

**MECHANICAL NOTES  
DESIGN PARAMETERS**

1. MECHANICAL CODE: 2009 INTERNATIONAL MECHANICAL CODE

2. OUTSIDE AIR REQUIREMENTS:  
OCCUPANCY CLASSIFICATION - RETAIL (SALES)  
BUILDING AREA FOR OCCUPANCY - 7,009 SQUARE FEET  
OCCUPANT LOAD - 7,009 / 1000 x 15 = 106 PEOPLE  
OCCUPANT OUTSIDE AIR - 106 x 7.5 CFM = 795  
AREA OUTSIDE AIR - 7,009 x .12 CFM = 841 CFM  
TOTAL OUTSIDE AIR REQUIRED - 795 CFM + 841 CFM = 1636 CFM

**GENERAL MECHANICAL NOTES**

A. ALL DUCTWORK IS EXPOSED IN THE CONDITIONED SPACE AND DOES NOT REQUIRE ANY INSULATION. THE DUCTWORK PACKAGE AND AIR DEVICES WILL BE FURNISHED BY AUTOZONE FOR INSTALLATION BY THE CONTRACTOR.

B. THE FIRESTATS, SMOKE DETECTORS, FRESH AIR INTAKES AND/OR ECONOMIZERS WILL BE PROVIDED, AS REQUIRED BY LOCAL CODE, BY AUTOZONE FOR INSTALLATION BY THE CONTRACTOR.

C. THE PACKAGE ROOF MOUNTED HEATING / COOLING UNITS, ROOF CURBS, AND CARRIER THERMOSTATS WILL BE FURNISHED BY AUTOZONE FOR INSTALLATION BY THE CONTRACTOR. SEE SCHEDULE BELOW FOR THE AIR FLOW FOR EACH UNIT SCHEDULED.

D. THE TOILET EXHAUST FAN WILL BE FURNISHED BY AUTOZONE FOR INSTALLATION BY THE CONTRACTOR. THE FAN IS A BROAN NO. 503 WITH 160 CFM CAPACITY. CONTRACTOR TO FURNISH AND INSTALL METAL DUCT AND WALL CAP.

E. THE THERMOSTATS SHALL BE SET FOR 78° F IN THE COOLING MODE AND 68° F IN THE HEATING MODE.

F. THE FLEXIBLE GAS CONNECTION TO EACH UNIT TO BE NO MORE THAN 2'-0" LONG.

G. CONTRACTOR SHALL STENCIL RTU NUMBER ON ALL ROOFTOP UNITS. STENCILING SHALL BE ON ROOF HATCH SIDE ONLY.

H. REFER TO SHEET A1 FOR BUILDING DIMENSIONS AND S2 FOR HVAC LOCATIONS.

I. ALL ABOVE GROUND WATER SUPPLY PIPING SHALL BE INSULATED.

3/32" = 1'-0" MGNO1

**3 MECHANICAL NOTES**

A. THE EQUIPMENT AND MATERIALS FOR THIS PROJECT HAVE BEEN SPECIFICALLY SELECTED FOR THIS APPLICATION. MANY ITEMS FOUND IN THE HVAC PACKAGE ARE UNIQUE TO AUTOZONE. THE HVAC PACKAGE WILL BE FURNISHED TO THE CONTRACTOR FOR INSTALLATION, START-UP, AND SYSTEM VERIFICATION.

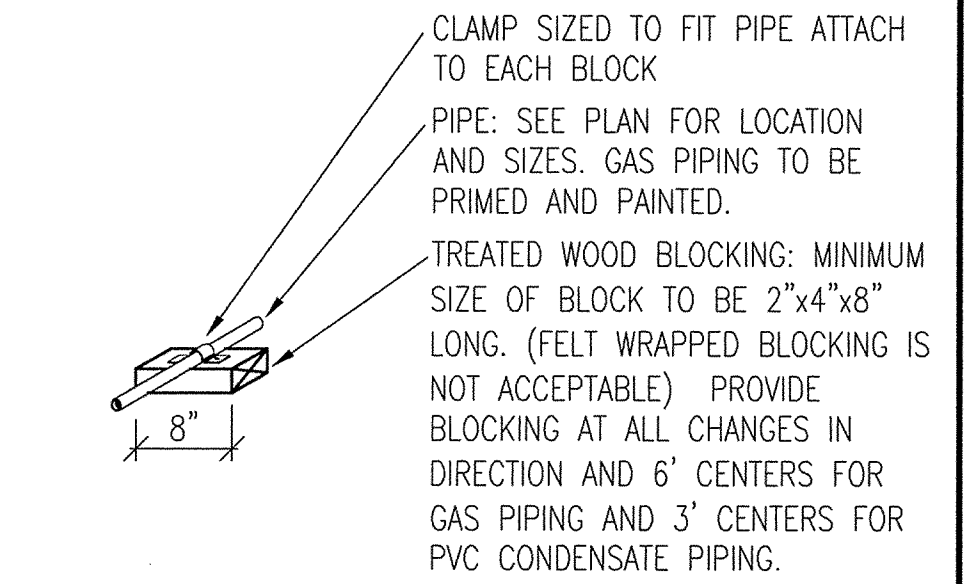
B. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE SYSTEM THAT CONFORMS TO THE PLANS AND SPECIFICATIONS.

C. ALL DAMAGE AND / OR WARRANTY CLAIMS ARE SUBJECT TO INSPECTION AND REVIEW BY BOTH AUTOZONE AND THE EQUIPMENT MANUFACTURER. SEE NOTES ON SHEET M-1 FOR FURTHER INFORMATION REGARDING DAMAGE AND WARRANTY CLAIMS. FILING OF A CLAIM DOES NOT RELIEVE THE HVAC CONTRACTOR OF HIS RESPONSIBILITIES DESCRIBED ABOVE AND IN THE SPECIFICATIONS TO PROVIDE A COMPLETE AND FINISHED SYSTEM.

D. FIRESTATS, SMOKE DETECTORS, DUCT SENSORS AND REMOTE THERMOSTATS TO BE INSTALLED ACCORDING TO THE MANUFACTURERS' SPECIFICATIONS AND INSTRUCTIONS.

E. ROOFTOP UNITS MAY CONTAIN ONE OR MORE OF THE FOLLOWING ITEMS DEPENDENT ON PROJECT GEOGRAPHIC LOCATION AND CODE REQUIREMENTS: ECONOMIZER, HAL GUARDS, CORROSION PROTECTION, HORN AND STROBE UNITS, ETC.

F. CUT NO HOLES IN BOTTOM PAN OF ROOFTOP UNIT. CONTRACTOR TO USE FACTORY INSTALLED HUB LOCATIONS TO RUN POWER AND/OR CONTROL WIRING.



3/4" = 1'-0" MHIO1

**5 PIPE SUPPORT**

- SUPPORT ALL PIPING ON TREATED 2"x4" WOOD BLOCKING SET DIRECTLY ON ROOFING, AND CLAMP PIPE TO EACH SUPPORT. BLOCKING SHALL BE SPACED A MAXIMUM OF 6'-0" ON CENTER FOR GAS PIPE AND 3'-0" FOR PVC PIPE. PROVIDE ADDITIONAL SUPPORTS AT EACH BEND AND "T" CONNECTION.
- MOUNT TWO (2) THERMOSTATS ON THE WALL - SEE SHEET E5.
- CONTRACTOR TO FURNISH & INSTALL METAL EXHAUST DUCT AND METAL WALL CAP FOR EACH BATHROOM EXHAUST FAN, RUN DUCT WORK IN CEILING JOIST SPACE. SEE ELECTRICAL SHEETS FOR FAN LOCATION AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- COORDINATE WITH THE LOCAL UTILITY COMPANY FOR GAS METER LOCATION AND GAS PIPE SIZES. REFER TO THE SCHEDULE ON SHEET M-1 FOR MAXIMUM ESTIMATED LOAD.

1/8" = 1'-0" MHN02 1/8" = 1'-0" MHN01

**4 HVAC PACKAGE NOTES**

MARK	BRAND	MODEL	CFM @ 1/8" S.P.	SONES	ELEC. REQUIREMENT	COMMENTS
TEF-1	BROAN	503	160	5	120V-1PH-60HZ	INTERLOCK WITH LIGHT SWITCH SEE NOTE "S" OF THE MECHANICAL NOTES.
TEF-2	BROAN	503	160	5	120V-1PH-60HZ	INTERLOCK WITH LIGHT SWITCH SEE NOTE "S" OF THE MECHANICAL NOTES.

**7 TOILET EXHAUST FAN SCHEDULE**

MARK	BRAND	MODEL	CFM @ 1/8" S.P.	SONES	ELEC. REQUIREMENT	COMMENTS
TEF-1	BROAN	503	160	5	120V-1PH-60HZ	INTERLOCK WITH LIGHT SWITCH SEE NOTE "S" OF THE MECHANICAL NOTES.
TEF-2	BROAN	503	160	5	120V-1PH-60HZ	INTERLOCK WITH LIGHT SWITCH SEE NOTE "S" OF THE MECHANICAL NOTES.



1/8" = 1'-0" MHL01

- ⊠ INDICATES ROOF OPENING
- CONDENSATE DRAIN
- ⊙ THERMOSTAT
- ⊕ WP GFI WEATHERPROOF GFI OUTLET
- ⊞ ELECTRICAL DISCONNECT
- DW DOMESTIC WATER
- ⊥ GAS INLET

1/8" = 1'-0" MHL01

**2 HVAC LEGEND**

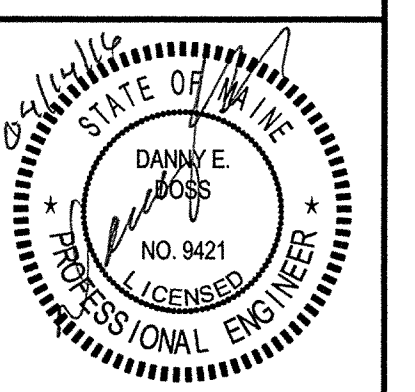
1/8" = 1'-0"  
**1 HVAC ROOF TOP PLAN**

REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		

AutoZone Store No. 3879  
1207 FOREST AVE  
PORTLAND ME 04103  
**HEATING AND COOLING**

ENGINEER: DANNY E. DOSS P.E.  
132 Kelley Drive  
Rogers, Arkansas 72756  
TEL: (479) 631-1712 FAX: (479) 631-1854  
For Bidding & Contractor Information Contact:  
McGraw - Hill Construction Tel. 615-884-1017  
www.construction.com



04/04/16

7N2-R

**M-1**