



**BASEMENT LEVEL MECHANICAL PLAN**

SCALE: 1/8" = 1'-0"



**PLAN NOTES:**

- 1 PROVIDE AND INSTALL GAS FIRED FURNACE AS SPECIFIED. MOUNT ON 14" HIGH RETURN AIR PLENUM. REFER TO LARGE SCALE PLAN ON SHEET M2.1. REFER TO DETAIL HMB.1 FOR RETURN AIR PLENUM CONSTRUCTION.
- 2 DUCTWORK TO BE INSTALLED IN CRAWL SPACE AS SHOWN. SUPPORT DUCT FROM FLOOR JOISTS ABOVE. COORDINATE DUCT ROUTING WITH FLOOR SUPPORT COLUMNS AND MAKE MODIFICATIONS AS REQUIRED. RETURN DUCTS TO PASS BELOW SUPPLY DUCTS. MAKE TRANSITIONS IN DUCTWORK AS REQUIRED.
- 3 RUN DUCTWORK IN STORAGE ROOMS AND I.T. ROOM TIGHT AGAINST FLOOR JOISTS AS SHOWN.
- 4 RISE 12x6 SUPPLY AIR BOOT UP THRU FLOOR FOR FLOOR GRILLE ABOVE. COORDINATE BOOT LOCATION WITH FLOOR JOISTS. REFER TO DETAIL KMB.1 FOR TYPICAL INSTALLATION.
- 5 RISE 12x3 SA DUCT UP IN WALL ABOVE AND CONNECT TO SIDEWALL GRILLE. COORDINATE DUCT WITH FLOOR JOISTS. REFER TO DETAIL GMB.1 FOR TYPICAL INSTALLATION.
- 6 12x6 SA BOOT THRU FLOOR ABOVE. COORDINATE WITH FLOOR JOISTS. CONNECT BOTTOM OF BOOT TO 12x6 SUPPLY DUCT WITH MITERED FITTING AND MANUAL BALANCING DAMPER.
- 7 TRANSITION 8"φ DUCT TO 12x2 TO RISE UP BELOW CABINET ABOVE. COORDINATE DUCT WITH FLOOR JOISTS. REFER TO DETAIL GMB.1 FOR TYPICAL INSTALLATION.
- 8 RISE 12x3 RETURN AIR DUCT UP IN WALL ABOVE AND CONNECT TO SIDEWALL GRILLE. COORDINATE DUCT WITH FLOOR JOISTS. REFER TO DETAIL FMB.1 FOR TYPICAL INSTALLATION.
- 9 DROP 18x12 OUTSIDE AIR DUCT DOWN THRU FLOOR ABOVE. OFFSET AND RUN TO MECHANICAL ROOM AS SHOWN. KEEP DUCT TIGHT TO FLOOR JOISTS. REFER TO LARGE SCALE MECHANICAL ROOM ON SHEET M2.1 FOR CONNECTION TO INDIVIDUAL FURNACE SYSTEMS. REFER TO SHEET M.1 FOR CONTINUATION OF DUCT UP THRU ROOF.
- 10 RUN REFRIGERANT LINES THRU CRAWL SPACE. PENETRATE FOUNDATION WALL ABOVE GRADE. REFER TO SHEET M.1 FOR LOCATION OF CONDENSING UNITS AND TO PIPING DIAGRAM AMB.2 FOR TYPICAL PIPING CONNECTIONS. SUPPORT PIPING FROM FLOOR JOISTS.
- 11 PROVIDE AND INSTALL CEILING MOUNTED EXHAUST FAN WITH WALL MOUNTED COOLING THERMOSTAT AS SPECIFIED. RISE 10x4 DUCT UP IN WALL ABOVE TO ROOF CAP. SEE SHEET M.1 FOR CONTINUATION.

MECHANICAL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
Ⓢ	ELECTRONIC THERMOSTAT	—L—	REFRIGERANT LIQUID LINE
①	PLAN NOTE	—S—	REFRIGERANT SUCTION LINE
Ⓜ	EQUIPMENT SYMBOL	⊞	SIDEWALL REGISTER SUPPLY OR RETURN AIR
HD	HAND DAMPER	⊞	RETURN AIR OR EXHAUST GRILLE
—Ⓢ—	MOTORIZED DAMPER	⊞	CEILING DIFFUSER
⊞	ROUND BRANCH DUCT WITH HAND DAMPER	⊞	CEILING MOUNTED EXHAUST FAN
⊞	RECTANGULAR SUPPLY AND RETURN AIR DUCT TAKE-OFF	⊞	ROOF CAP
⊞	TURNING VANES	⊞	FURNACE
⊞	DUCT TRANSITION	⊞	CONDENSING UNIT
		⊞	INSULATED FLEXIBLE DUCT

ORIGINAL DRAWING SIGNED BY: M. JENSEN  
 DATE ORIGINAL SIGNED: 08/14/2014  
 ORIGINAL ON FILE AT: ENGINEERING SYSTEMS ASSOCIATES  
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**PRELIMINARY DRAWING NOT FOR CONSTRUCTION**

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DRAWING TITLE: **BASEMENT LEVEL MECHANICAL PLAN**

REVISION:

#	DATE	COMMENT

DRAWN BY: M. THIEL JOB NO: 19034

CHECKED BY: M. JENSEN DATE: AUGUST 2014

PLOT DATE: Aug 14, 2014

DRAWING NO. FILE: 19034-MI.0.dwg

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