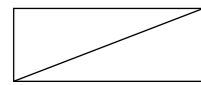
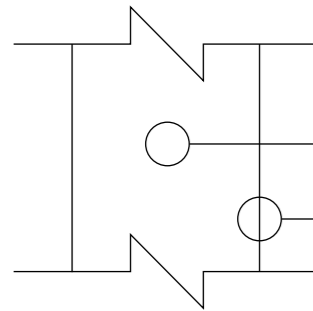


## LAYOUT SYMBOLS

### SUPPLY



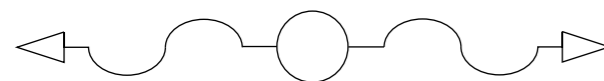
RISER TO ATTIC



TRUNK DUCT

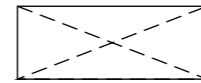
TOP TAKE-OFF AND BRANCH

SIDE TAKE-OFF AND BRANCH

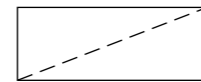


CEILING DIFFUSER

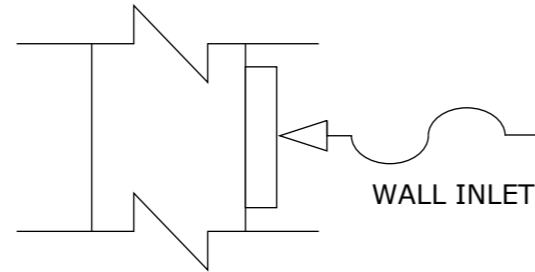
### RETURN



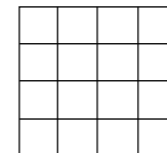
DUCT CONNECTION TO STUD SPACE



RISER TO ATTIC



WALL INLET GRILL



CEILING INLET GRILL

## EQUIPMENT SPECIFICATIONS

FURNACE MINIMUM 96% AFUE HIGH EFFICIENCY GAS FURNACE  
MINIMUM 20,000 BTUH HEATING CAPACITY

HRV MINIMUM 75% SRE HEAT RECOVERY VENTILATOR  
CAPABLE TO CONTROL FLOW TO WITHIN +/- 10%  
MINIMUM CAPACITY REQUIRED  
COUPLED TO FORCED AIR HEATING SYSTEM

H.W.T. MINIMUM 0.8 EF DOMESTIC WATER HEATER

EF MINIMUM 100 CFM EXHAUST FAN

### ABBREVIATIONS

L.W. LOW WALL Th. THERMOSTAT S.A. SUPPLY AIR

R.A. RETURN AIR CFM CUBIC FEET PER MINUTE

(S) SMOKE ALARM (C) CARBON MONOXIDE DETECTOR

## MECHANICAL NOTES

INSTALL ALL MATERIAL AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS AND REQUIREMENTS

INSULATE SUPPLY AND RETURN DUCTS IN THE ATTIC SPACE WITH MINIMUM R12

INSULATE EXHAUST DUCTS IN THE ATTIC SPACE WITH MINIMUM R2.8

SEAL DUCT JOINTS IN THE ATTIC SPACE WITH CLASS A SEAL LEVEL

SEAL DUCT JOINTS IN CONDITIONED SPACES WITH CLASS C SEAL LEVEL

UNDERCUT DOORS FOR RETURN AIR

ALL DUCTS SHALL BE OF GALVANIZED STEEL

BRANCH SUPPLY DUCTS SHALL BE EQUIPPED WITH VOLUME CONTROL DAMPERS OR DEVICES

ALLOW FOR COMBUSTION AIR IF APPLICABLE

### WALL DETAILS

W1 1/2" REGULAR GYPSUM BOARD  
2" X 4" STUD WALL AT 16" O.C.  
1/2" REGULAR GYPSUM BOARD  
2" X 4" SINGLE TOP PLATE  
2" X 4" SINGLE BOTTOM PLATE

W2 1/2" REGULAR GYPSUM BOARD  
2" X 6" STUD WALL AT 16" O.C.  
1/2" REGULAR GYPSUM BOARD  
2" X 6" SINGLE TOP PLATE  
2" X 6" SINGLE BOTTOM PLATE

### HEADERS/LINTEL

H1 WOOD HEADER MINIMUM 2 PLY 2X8  
SPF GRADE NUMBER 1 OR 2  
MINIMUM 38MM END BEARING

H2 WOOD HEADER MINIMUM 2 PLY 2X6  
SPF GRADE NUMBER 1 OR 2  
MINIMUM 38MM END BEARING

L1 STEEL LINTEL (MASONRY VENEER SUPPORT)  
MINIMUM 89MM X 89MM X 6.4MM  
MINIMUM 150MM END BEARING  
EVEN AND LEVEL BEARING ON BOTH SIDES  
SHALL BEAR ON MASONRY, CONCRETE OR STEEL

### DOORS

UTILITY ROOM 810mm BEDROOMS 810mm

STORAGE/CLOSET 610mm BATHROOM 610mm

NOTE: ALL DOORS TO SWING ON VERTICAL AXIS AS REQUIRED BY THE 2012 OBC.