

## RESIDENTIAL MECHANICAL PLAN

Drawings must be neat, organized and legible (min 1/8" lettering)  
Specify each scale used;

- Detail  $\frac{3}{4}" = 1'$

Construction drawings shall be drawn upon suitable material and shall be of sufficient clarity to indicate the location, nature and extent of the work proposed, R106.1.1

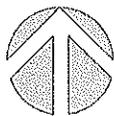
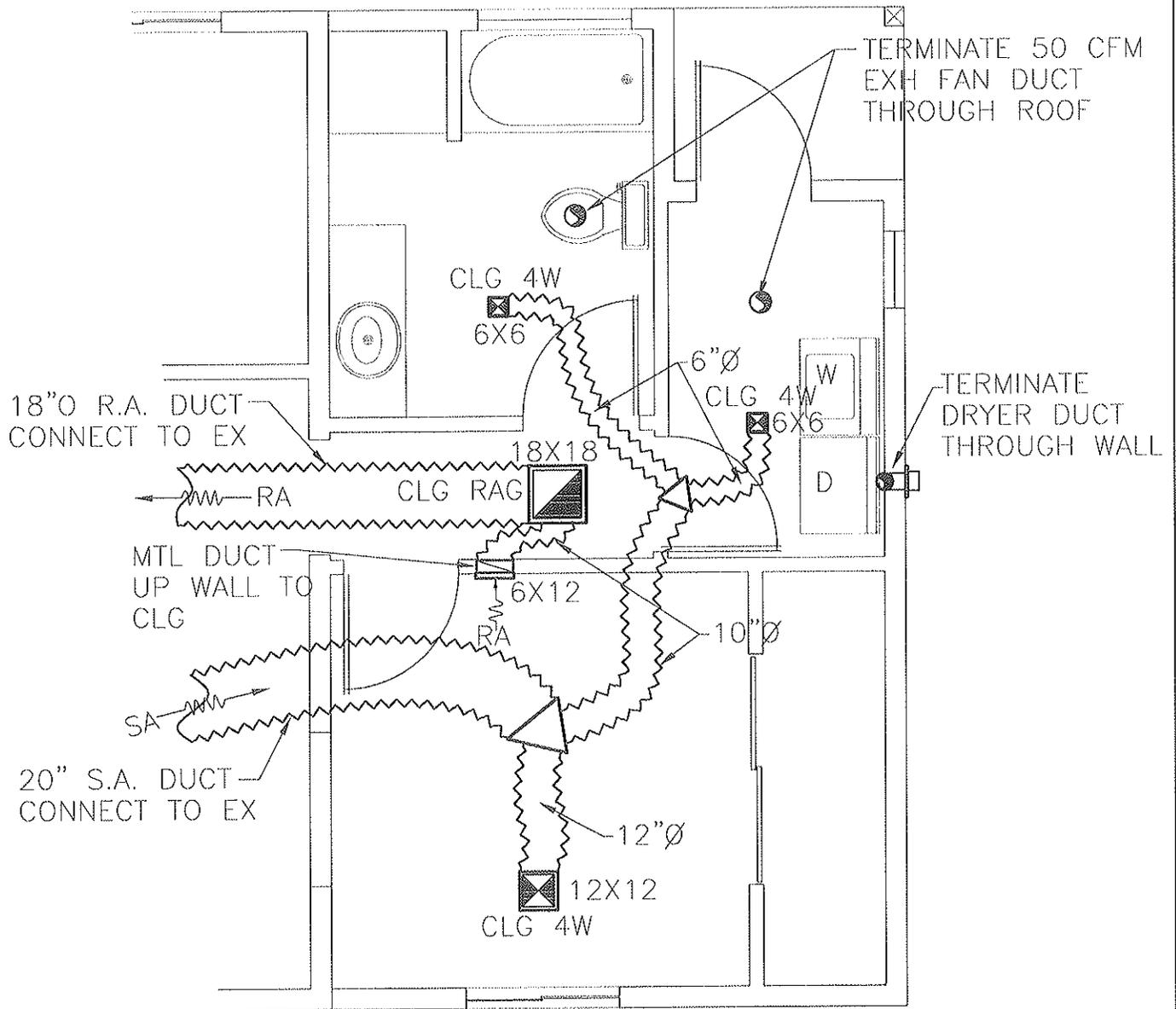
Mechanical shall comply with the 2006 IRC, Chapters 12 - 24

- Provide a heated air source to all habitable rooms capable of maintaining a room temperature of 70 degrees at a point three feet above the floor; R303.8, R310.11
- Provide location of return air ducts and register sizes; M1602. Minimum duct/register size: heat pump or air conditioner – 6 sq. in. / 1000 BTU; M1403.1 (1 ton cooling = 12,000 BTU)
- Show supply and return ducts with minimum R-8 insulation; R1103.2.1
- Designate the location, capacity and fuel type of the heating and air conditioning equipment. Designate the locations of each supply register, return air grill and all duct work
- Air intake openings shall be located a minimum of 10' from any street or alley or 2' below any vent or chimney; R303.4
- Air inlets shall be located a minimum of 10' from vent openings or exhaust outlets unless the outlet is 3' above the air inlet; M1602.2.1
- Provide an equipment specification list; M1302.1
- Show location of access, catwalk and working platform for heating or air conditioning equipment located in the attic; M1305.1.3
- Appliances located in a garage or carport require impact protection; M1307.3.1
- Show the condensate line and secondary for HVAC unit; M1411.3
- Show dryer vent size and location for venting to exterior, maximum 25' w/bend reductions; M1502.2, M1502.6
- Show exhaust fan locations for bathroom and kitchen venting to the exterior, minimum 50 and 100 CFM rating respectively; R303.3, M1507

- Gas appliances shall comply with combustion air requirements per Chapter 17 of the 2006 IRC. Show compliance for all appliances. Confined spaces require a minimum of two 100 sq. in. openings; M1702.2
- Flues connected to more than one appliance shall be not less than the area of the largest connector plus 50% of the additional connectors. Water heater typical – 3" flue, furnace – 4" flue; IRC M1805.3
- Gas fired water heaters may not be located in a storage closet; M2005.2
- Gas fired water heaters located in a bedroom or bathroom requires a sealed enclosure; M2005.2
- Show a minimum 2' termination above any roof point within 10' measured horizontally and not less than 3' above the point where a chimney (metal pipe) passes through the roof; G2427.5.3
- Mechanical draft vent systems shall terminate at least 3' above forced air inlets located within 10'; G2427.8

GENERAL NOTES:

1. ALL MECHANICAL WORK TO COMPLY WITH 2006 IRC
2. CONNECT NEW DUCTWORK TO EXISTING DUCT WORK IN ATTIC



HVAC PLAN

2006 IRC

SCALE: 1/4" = 1'-0"