



City of Pontiac

Division of Building Safety

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http://www.pontiac.mi.us/departments/community_development/building_and_safety.php

Mechanical Plan Review Checklist

Mechanical Plan Reviews are based on the Michigan Building Code and *International Fuel Gas Code*[®] (IFGC[®])

In order to perform a thorough Mechanical Plan Review, the following specifications, drawings and details should be submitted:

- Complete signed and sealed (as required by applicable laws) plans and specifications of all heating, ventilating, and air conditioning work.
- Complete information on all the mechanical equipment and materials including listing, labeling, installation, and compliance with referenced material standards.
- Details on the HVAC equipment including the equipment capacity (BTU/H input), controls, equipment location, access and clearances.
- A ventilation schedule indicating the outdoor air rates, the estimated occupant load/1,000 sq. ft., the floor area of the space and the amount of outdoor air supplied to each space.
 - o (If 2009 IMC requirements are used, complete calculations clearly denoting equations and factors must be provided.)
- The location of all outdoor air intakes with respect to sources of contaminants.
- Duct construction and installation methods, flame spread/smoke development ratings of materials, flexible air duct and connector listing, sealing of duct joints, seams and connections and duct support spacing.
- Condensate disposal, routing of piping, and auxiliary and secondary drainage systems.
- Required exhaust systems, routing of ducts, and termination to the exterior.
- Complete details of all Type I and II kitchen hoods, grease duct construction and velocity, clearance to combustibles and fire suppression system.
- Details of all duct penetrations through fire-resistance rated assemblies including locations for all fire dampers, smoke dampers, and ceiling radiation dampers along with applicable fire protection ratings and labeling requirements.
- Method of supplying combustion air to all fuel fired appliances, the location and size of openings and criteria used to size the openings.
- Details on the vents used to vent the products of combustion from all fuel burning appliances including the type of venting system, the sizing criteria required for the type of vent, and the routing of the vent.
- Boiler and water heater equipment and piping details including safety controls, gauges, valves, and distribution piping layout.
- Details on the type and quantity of refrigerant, calculations indicating the quantity of refrigerant and refrigerant piping material, and the type of connections.
- Complete details on the gas piping system including materials, installation, valve locations, sizing criteria, and calculations (i.e., the longest run of piping, the pressure, the pressure drop and applicable gas pipe sizing Table(s) in the IFGC).