



CITY OF PLACERVILLE DEVELOPMENT SERVICES
BUILDING DIVISION
3101 Center Street Placerville, CA.95667
530-642-5240

Residential HVAC & Mini Split Submittal

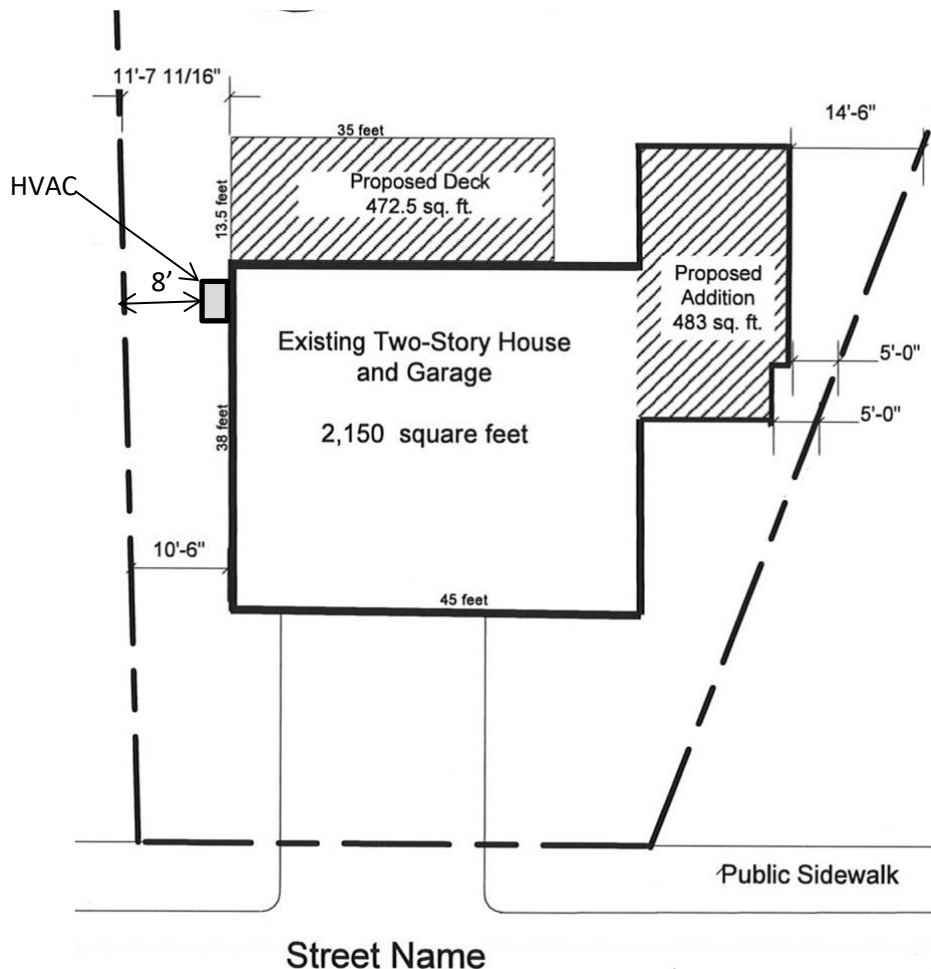
12/4/20

Residential HVAC (new or change out) and Mini-Split

Heating, ventilation, and air conditioning are the technology of indoor and vehicular environmental comfort. Its goal is to provide thermal comfort and acceptable indoor air quality.

Applications for HVAC, HVAC c/o or Mini-Split shall include the following:

- One (1) Copy of the Building Permit Application- Form must be filled out completely.
- Two (2) Copies of CF1R Alt2E that has been registered with the State of California through either CalCerts or Cheers.
- Two (2) Copies a focused site plan, if you are planning to add or move an exterior HVAC system or Mini-Split system. Confirmation needs to be made that they system meets setback requirements (Rarely needed but may be required for new systems or ones that are being moved).



CHECKLIST FOR HVAC INSPECTION

(Residential)

- All required state energy forms (HERS) are on the jobsite for review that indicates all requirements have passed the required tests.
- Provide safe access to installed units to include a safe ladder for attic or roof installations. 22 x 24" if thru opening.
- Have available manufacturer's specification of the unit(s) for inspection and remain on job for the use of the owner.
- *Central heating furnaces and boilers installed in closets or alcoves shall be listed for such installations. The installation clearances shall be in accordance with that appliance listing. 303.2 CMC*
- Equipment accessible for service with a minimum space of not less than 30 inches in depth, width and height shall be provided. 304.1 CMC
- *Equipment or appliances that require service installed on roofs having a slope greater than 4<12 slope, a level platform of not less than 30X30 inches shall be provided at the service side of the equipment. 304.2 CMC*
- *There shall not be less than 6 feet clearance between the equipment and roof edge. 303.8.4 CMC*
- *A readily accessible grounding type receptacle outlet on the roof adjacent to the equipment on the supply side of the disconnect switch. 303.8.5 CMC*
- Provide service access of 22 X 30 inches and a minimum 24 inch wide passageway to an attic or underfloor installed appliances and with a 30 X 30 inch platform in front of the service side of the appliance. 304.4 CMC
- A permanent 120-volt receptacle outlet and a lighting fixture installed near the appliance with a switch located on the same level at the attic or underfloor entrance to the appliance. 304.4.4 CMC-A permanent 120-volt receptacle outlet and a lighting fixture installed near the appliance with a switch located on the same level at the attic or underfloor entrance to the appliance. 304.4.4 CMC
- LPG appliances will need to have a label indicating an LPG appliance or a sticker on the valve indicating the unit has been converted to an LPG orifice.
- LPG appliances cannot be installed in a basement or a pit unless with prior approval from the City Building Division for a pan and drain from the unit to the exterior. Underfloor crawl space is considered the same as a pit unless underfloor area is day lighted at the exterior grade.
- A drip or sediment trap in the gas line installed prior to the shutoff valve, with a minimum 3 inch vertical nipple from the Tee fitting.
- New gas lines or branch lines shall be tested prior to LPG use with air, CO₂, or nitrogen at a pressure of 10 psi for 15 minutes. 103.3.2 CMC
- Listed metallic flexible gas lines shall be installed per the manufacturer's installation instruction. 1308.5.3.4 CMC
- Vent pipes passing through roof sheeting or other combustible materials must maintain clearances per the manufacturer listing of the vent pipe.
- Vented appliances such as a furnace shall be installed with a draft hood. The draft hood of special design is needed shall be approved and installed with the recommendations of the manufacturer. 802.12 CMC
- Condensate control of overflow by installing an additional watertight pan beneath the cooling unit.
- Condensate and overflow lines are a minimum ¾ inch and both exit to the exterior of the building. The overflow line should exit at a point most visible. A water level detecting unit shutoff may be used instead of a pan.
- A flexible cord connection is only allowed by the electrical code if the furnace is specifically identified by the manufacturer for flexible cord connection. The unit shall be connected with

permanent wiring and a disconnect switch to a dedicated circuit for the furnace. Dedicated connection only required if specified by manufacturer. An exception is a condensate pump, static filter, etc. that are related to the operation of the furnace. Article 422.16 CEC.

- If the furnace is installed in a garage area the burners and burner ignition device are located not less than 18 inches above the floor and protected from damage by use of bollards if located in the normal path of vehicles. 305 CMC

The information provided in these guidelines or checklists is to assist in meeting minimum code and ordinance requirements for construction projects. This information may not be all inclusive in many situations and the actual code edition may need to be reviewed further. Recent code changes in italicized format.