



CITY OF MESA
BUILDING SAFETY DIVISION
RESIDENTIAL GAS PIPING REQUIREMENTS

PROJECT STREET ADDRESS: _____

PERMIT # _____

THIS CHECKLIST IS TO BE USED AS A GUIDE WHEN REVIEWING PLANS FOR RESIDENTIAL GAS PIPING INSTALLATIONS. THESE COMMENTS CAN BE CUT AND PASTED INTO YOUR ELECTRONIC DOCUMENT REVIEW. **NOTE: ALL REFERENCES WERE TAKEN FROM THE 2018 MESA RESIDENTIAL CODE.**

Site Plan:

- _____ 1. Provide a fully dimensioned site plan, drawn to scale, including all fences, property lines, right-of-way centerline measurements and easements.
- _____ 2. Show on the site plan all existing structures and identify the location of existing and/or proposed services, including gas and electric.
- _____ 3. Show locations of existing and/or proposed gas appliances, inside and outside the dwelling. Include the BTU load for each appliance.
- _____ 4. Identify if there are existing/proposed LP tanks and show their location on the site plan.
- _____ 5. Indicate on the site plan, and all other gas piping diagrams provided, if new branch line(s) will be extended from the meter or from an existing branch line. Additional information will be required for the existing gas piping system if new lines are extended from the existing system (instead of branching out from the existing meter).
- _____ 6. For outdoor appliances identify on the site plan the location of the underground gas piping. Include size, length of each section and type of material of the pipe.
- _____ 7. Gas lines, LP tanks or pool equipment shall not be located within any Public Utility Easement.

Gas Piping Information:

- _____ 8. Proposed gas piping shall be designed from an existing or proposed gas meter location approved by the gas utility provider. For properties serviced by City of Mesa Gas, contact Gas Engineering at 480-644-2509 for additional requirements for new gas service installations.
- _____ 9. For indoor appliances, provide a gas piping diagram (schematic). Include size, length and type of material of the pipe. G2413 through G2414

- _____ 10. Steel pipe or tubing exposed to corrosive action, such as soil condition or moisture, shall be protected. G2415.11 through 2415.11.5
- _____ 11. Minimum burial depth shall be 12" below grade except for individual outdoor appliances shall be installed not less than 8" below finished grade provided that the installation is approved and installed in locations not susceptible to physical damage. G2415.12 and G2415.12.1
- _____ 12. Piping installed underground beneath buildings is prohibited except where the piping is encased in a conduit of wrought iron, plastic pipe, steel pipe, a piping or encasement system listed for installation beneath buildings, or other approved conduit material designed to withstand the superimposed loads. G2415.14
- _____ 13. Show the required tracer wire for underground non-metallic gas piping. Tracer wire shall not be less than 18 AWG and the insulation type shall be suitable for direct burial.

Propane (LP) Tanks:

- _____ 14. Provide a minimum of 5-foot separation from the building, public way or line of adjoining property.

Exception #1: Containers may be next to a building providing that the pressure relief device is at least 5 feet away from any building opening, source of ignition or any air intakes into the building.

Exception #2: Containers can be placed at a property line when a six-foot block wall is provided, dividing the properties. The wall shall extend 10 feet in each direction with no opening through the wall.
- _____ 15. Loose or piled combustible material, weeds and/or long dry grass shall not be permitted within 10 feet of any container.
- _____ 16. Tanks are to be placed on a 4-inch continuous reinforced slab on grade over packed earth.
- _____ 17. The slab is to extend a minimum of 6-inches beyond all tank supports.
- _____ 18. All tanks shall be maintained level and secured.