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# MARIPOSA PUBLIC UTILITY DISTRICT

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*water*  
*wastewater*  
*fire protection*

*Revised October 2016*

## RESIDENTIAL PROCESS TO CONNECT TO PUBLIC WATER, SEWER SERVICE, AND FIRE SPRINKLER SYSTEM

1. Submit application for service.
2. Mariposa Public Utility District (MPUD) will review application and determine water meter location and connection fee(s). Approved application will be returned to property owner along with installation and material specifications.
3. Where building codes require residential fire sprinkler system installation, MPUD will provide water system information pertinent to the design of the fire sprinkler system to the designer. One set of sprinkler plans shall be submitted to MPUD for review and approval of the sprinkler system connection to the public water system.
4. After fees are paid in full a permit to connect is issued. MPUD will notify Mariposa County Building Department that application has been received and a permit issued.
5. Before any excavation, MPUD and property owner or contractor will meet on-site to discuss the location of the water meter, sewer lateral (portion of sewer pipe from the public sewer main to the public sewer easement or building sewer) and installation requirements. Property owner or contractor is required to call Underground Service Alert (U.S.A.) at 811 or 1-800-227-2600.
6. MPUD sets water meter.
7. Property owner or contractor install building sewer from new structure to service lateral or sewer mains and water line including check valve, gate valve, pressure reducing valve and approved backflow preventer, if required. Pipe to be properly bedded in sand or decomposed granite (DG). No backfill shall be placed until the work has been inspected and approved by an MPUD representative. A 24-hour notice for inspection is required. Weekdays only.
8. Water service line from the meter to the house must be flushed in the presence of an MPUD representative before connection at the structure.
9. If approved by MPUD representative, the ditches for both water and sewer lines is backfilled. Clean-out and valve boxes are installed by the property owner.

10. After all site work is completed, MPUD performs final inspection. If approved, MPUD will notify Mariposa County Building Department that the work is completed according to MPUD specifications.

A. SPECIFICATIONS – BUILDING SEWERS, LATERAL SEWERS AND CONNECTIONS

1. Permit Required. In accordance with Part VI of Ordinance #32. No person shall construct a building sewer, lateral sewer or make a connection with any public sewer without first obtaining a written permit from the District and paying all fees and connection charges as required therein. All permits shall be signed by the legal owner of the premises to be connected to the public sewer.

Prior to the start of construction, the site must be reviewed by a representative from MPUD with the sewer line installer present.

In most cases a sewer lateral has already been installed to the property. The lateral sewer is the sewer pipe from the public sewer main to the edge of the easement of property line. Where no lateral is available, the permittee is responsible to excavate to the sewer main and install the tee or wye connection to the main according to MPUD specifications. The permittee shall install the service lateral, including clean-out, at the easement or property line (see attached drawing). Permittee shall install the sewer line to the house connection.

Septic tanks may not be connected to the public sewer. Existing sewer lines from the building to an existing septic tank may not be used when connecting to public sewer. New pipe approved by MPUD must be installed from the building to the public sewer. When a septic tank is to be abandoned it is the property owner's responsibility to acquire the necessary Mariposa County permits and abandon the tank properly.

2. Sewer Materials. The building sewer shall be ductile iron pipe or equal; PVC Schedule 40 or equal; PVC SDR-35 or equal. Any material used for sewer pipe must be approved by the District. Joints shall be tight, waterproof and root proof. No bends in the pipeline shall exceed 45 degrees. Sunburned and/or discolored PVC pipe is not acceptable.
3. Minimum Size and Slope. The size and slope of the building sewer shall be subject to the approval of the inspector, but in no event shall the diameter be less than four (4) inches. The sewer pipe shall be installed with a slope of not less than one-quarter (1/4) inch per foot.

*Exception: When approved by MPUD and where it is impractical, due to the depth of the street sewer or to the structural features or to the arrangement of any building or structure, to obtain a slope of one-fourth (1/4) of an inch per foot (20.9 mm per m), any such pipe or piping four (4) inches (101.6mm) through six (6) inches (152.4 mm) may have a slope of not less than one-eighth (1/8) of an inch per foot (10.5 mm per m) and any such piping eight (8) inches (203.2 mm) and larger may have a slope of not less than one-sixteenth (1/16) of an inch per foot (5.3 mm per m).*

4. Depth. The sewer line between the building and the sewer lateral shall have a minimum cover of 18 inches measured between the top of the pipe and finish site grade.
5. Pipe Bedding. Pipe bedding for 4-inch sewer lines from the structure to the public main shall be installed with imported sand or screened decomposed granite (DG); 6 inches compacted around all surfaces of the pipe.
6. Separate Sewers. No two separate legal parcels shall be permitted to join in the use of the same lateral. Each legal parcel must be separately connected with a public sewer if such public sewer exists in the street upon which the property abuts or in an easement which will serve said property. However, one or more buildings located on one legal parcel belonging to the same owner may be served with the same side sewer during the period of said ownership. Upon the subsequent subdivision of a portion of said parcel the portion not directly connected with such public sewer shall be separately connected with a public sewer and it shall be unlawful for the owner thereof to continue to use or maintain such indirect connection.
7. Cleanouts. Cleanouts in building sewers or private sewers (sewer waste piping from a structure or building to the sewer lateral at the property line or public sewer easement) shall be provided in accordance with the Standard Specifications for Sewer Construction. A cleanout shall be provided at the building and at the sewer main easements or edge of public street on all side sewers. All cleanouts shall be maintained water tight.
8. Sewer Too Low. In all buildings which any building sewer is too low to permit gravity flow to the public sewer, sanitary sewage carried by such building sewer shall be lifted by artificial means, approved by the Manager and discharged to the public sewer at the expense of the owner.
9. Inspection. All work from the structure to the public main must be inspected by an MPUD representative after all pipe and bedding is installed, but before subsequent back fill so that the pipe can be exposed and inspected as random sections.

Inspection by an MPUD representative may only be scheduled Monday through Friday between the hours of 7:00 AM and 3:00 PM. Twenty-four hour advance notice is required for a request for inspection.

10. Testing. An MPUD representative may require testing of newly installed sewer lines. Building sewers and lateral sewers shall be tested in the presence of the District Inspector by filling the line with water to an elevation that will result in ten feet of head pressure at the highest point on the sewer line and inspecting for excessive leakage. Fittings, plugs, water and labor for testing shall be furnished by the person constructing the sewer. All lines showing excessive leakage shall be repaired or replaced at the expense of the person doing the work and shall be done at the direction and to the satisfaction of the District Inspector.
11. No private water, sewer, or other utility lines (public or private) may be placed within six feet (6') parallel to the public water or sewer mains or within the public utility easement.

B. USE OF PUBLIC SEWERS

1. Drainage into Sanitary Sewers Prohibited. No leaders from roofs and no surface drains for rain water shall be connected to any sanitary sewer. No surface or storm water, seepage, cooling water, toxic substances, and industrial process waters shall be permitted to enter any sanitary sewer by any device or method whatsoever.
2. Types of Wastes Prohibited. Except as hereinafter provided, no person shall discharge or cause to be discharged any of the following described waters or wastes to any public sewer:
  - A. Any liquid or vapor having a temperature higher than 150° F.
  - B. Any water or waste which may contain more than 100 parts per million, by weight, of fat, oil or grease.
  - C. Any gasoline, benzene, naphtha, fuel oil, or other flammable or explosive liquid, solid or gas.
  - D. Any garbage that has not been shredded to such a degree that all particles will be carried freely under the flow conditions normally prevailing in public sewers, with no particle greater than one-half inch in any dimension.
  - E. Any ashes, cinders, sand, mud, straw, shavings, metal, glass, rags, feathers, tar, plastics, wood, paunch manure, or any other solid or viscous substances capable of causing an obstruction to the flow in sewers or other interference with the proper operation of the sewage works.
  - F. Any waters or wastes having a pH lower than 6.5 pH units or higher than 8.5 pH units or having any other corrosive property capable of causing damage or hazard to structures, equipment of personnel of the sewage works.
  - G. Any waters or wastes containing a toxic or poisonous substance in sufficient quantity to injure or interfere with any sewage treatment process, constitute a hazard to human or animals, or create any hazard in the receiving waters of the sewage treatment plant.
  - H. Any waters or wastes containing suspended solids of such character and quantity that unusual attention or expense is required to handle such materials at the sewage treatment plant.
    - (1) Any noxious or malodorous gas or substance capable of creating a public nuisance.
    - (2) Any septic tank sludge.

C. WATER SERVICE CONNECTIONS:

Prior to the start of construction the site must be reviewed by a representative from MPUD with the water line installer present. In most cases a water service line has already been installed from the public main to a curb stop, either at the edge of the easement or at the property line.

All applicants for service connections or water service shall accept such conditions of pressure and service as provided by the public water distribution system at the location of the proposed service. The District is not responsible for any damages arising out of low or high pressure conditions or from any interruptions in service.

1. Separate Water Services: No two separate legal parcels may be connected to the same water service. One or more buildings located on one parcel may be served by separate water services. The water meter(s) must be located at the edge of the public easement or property line. Location to be determined by an MPUD representative.

Customer shut-off valve. A shut-off valve is required in each service line on the customer side of the meter. This shut-off is in addition to the curb stop on the inlet side of the meter that is to be operated ONLY by MPUD staff.

Customer check valve. A check valve is required on all water services to be located as near as possible to the water meter and the customer shut-off. When an approved backflow prevention device is required on a service, the installation and maintenance must meet the requirement of the MPUD Cross Connection Ordinance #54.

Make sure meter stop is plumb and meter is level. Contact MPUD if there is a problem with the valve position.

2. Pressure Regulator: A pressure regulator is required in every water service. The regulator may be installed anywhere between the customer shut-off and the building.

Water pipe and fittings shall be brass, copper, galvanized wrought iron, galvanized steel polyethylene (160 psi) or Schedule 40 (or better) PVC. The maintenance of all piping and appurtenances including the customer shut-off, check valve and pressure regulator is the responsibility of the property owner. Sunburned and/or discolored pipe is not acceptable.

3. Pipe Bedding: All piping and appurtenances between the structure and the water meter shall be installed with imported sand or screened decomposed granite; 4 inch compacted on all surfaces of the pipe.
4. No private water, sewer, or other utility lines (public or private) may be placed parallel to the public water or sewer mains within the public utility easement.