



**Tahoe City Public Utility District  
Residential Sewer and / or Water Conditions of Service**

**Form D**

**Conditions of Service for a new construction, major remodel, tear down/rebuild or minor remodel permit. It is the responsibility of the property owner or their authorized representative to read this document, acknowledge your understanding of it and agree to all conditions and requirements outlined in this document and perform all construction, demolition and or remodel work in accordance with all current Tahoe City Public Utility District Ordinances and Regulations.**

**As a condition of service you shall pay all required fees and deposits to the District. Please note that other conditions or fees not indicated in this document may also apply.**

**Conditions of Service for the residential parcel indicated below:**

**Address \_\_\_\_\_ APN \_\_\_\_\_**

**Note: Any of the following conditions or requirements prefaced by (WATER ONLY) are for either sewer and water customers or water only customers, but do not apply to sewer only customers who are not in a District water system. -Your status is noted below-**

Sewer & Water Customer     Sewer only Customer     Water Only Customer

**A. The Following Conditions Must Be Met As Part Of The Permit Application Process:**

1. (Form A): A plan check must be successfully completed with all punch list items satisfied.
2. (Form B): A summary of fees including applicable connection, permit and inspection fees associated with this project will be outlined in this document and must be paid prior to a permit being issued. Please note that other fees or charges not indicated in this document may also apply. Any deviation by the owner from the plans approved by the District may cause changes in the fees and charges as quoted in Form B.
3. (Form C): A residential permit application must be completed and signed by the customer or their authorized representative.
4. (Form D): The Single Family Residential Sewer and / or Water Conditions of Service (this document, see instructions above). Please note that other conditions or fees not indicated in this document may also apply.
5. (Form F): Water Service with Fire Sprinkler System.

**B. The Following Conditions Must Be Met As Part Of The Construction Permit Process:**

1. It is the responsibility of the property owner or their authorized representative(s) to make sure all required inspections as specified in the construction permit are scheduled and completed.
2. Trenches for all new sewer and or water services installed as part of new construction / remodel projects must be inspected prior to backfill. Materials and construction methods must conform to District standards. The District must witness all trench inspections.
3. A pressure test of water and or sewer lines is required when any new installation or modification is made. The District must witness all pressure tests.



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4. All fixtures must be low flow and shall meet or exceed all State and Federal regulations. The District must inspect all fixtures prior to the final County inspection. All pre-final inspections and testing must be complete and all fixtures must be set.
5. Internal domestic water pressure must not exceed 60 psi at any fixture, a State of California requirement. The property owner must install a pressure-reducing valve if water pressure is greater than 60 psi. The District must verify water pressure prior to the final County inspection.
6. (WATER ONLY) Backflow prevention assemblies are required on potentially hazardous water services. The District will determine the need for backflow prevention assemblies during the plan check process. The applicant should get District approval for the location and model of backflow prevention assemblies if required. Each assembly must be tested and certified by a District-approved tester prior to the District Final. Note: Stop and waste valves shall not be installed underground. If installed, they must be located a minimum of 12" above grade or crawl space foundation spill rim. Frost-free yard hydrants shall have a District approved backflow prevention assembly installed and tested.
7. Drain lines from backflow assemblies or from glycol based heating systems are not to discharge to the sanitary sewer system.
8. (WATER ONLY) Hydronic heaters, fire sprinklers, and irrigation systems that are connected to the potable water supply will need an approved backflow prevention assembly installed on the feed line to them.
9. (WATER ONLY) Water Heat Exchangers aka Indirect Water Heaters: For the protection of potential internal tank heating coil leakage, the District requires the use of a double-wall heat exchangers when the domestic water is heated by the hydronic heating equipment. An alternative requirement would be the installation of a Reduced Pressure Principle Backflow Prevention Assembly (RP) on the main domestic water line, prior to any tees.
10. Other conditions may be identified during the plan checking or inspection processes that must be satisfied prior to the District Final.
11. All costs associated with the materials and construction of these facilities are the sole responsibility of the property owner.
12. The property owner must comply with all District ordinances and is responsible for that compliance for all planning and work that engineers, contractors, sub-contractors, agents and consultants perform for them on and about their property.
13. (WATER ONLY) New construction billing for domestic water service shall start at the time of a successful trench / pressure test inspection. Fire service billing shall start at time of final inspection or conditional final agreement.
14. (SEWER ONLY) New construction delay start billing for sanitary sewer service. Billing will be delayed for two consecutive quarters after the quarter in which a successful trench inspection is completed. Teardown-rebuild remodels may also qualify for delay start billing. See attached table on page 9. No further billing delays or extensions will be offered.
15. Clearance from existing and proposed structures (including bear boxes, deck piers, retaining walls, building footings, etc.) shall be maintained from the water and/or sewer lines so as to not damage them. If the clearance is unknown or within two (2) feet, the District may require the existing sewer and/or water lines as well as the proposed structure to be identified and marked for a visual surface inspection prior to the placement of the structure. The District may also require an air test on the entire sewer line



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after construction to verify that the integrity of the pipe was not compromised during the placement of the structure.

**C. Licensed Contractor:**

1. All work associated with the installation of residential sewer and/or water service lines must be performed by a California state licensed contractor. The owner must provide the District with the name, address and state license number of the contractor prior to the work commencing.
2. The property owner may install his or her own sewer and/or water facilities with District authorization. A \$1,050 bond shall be placed with the District, and evidence of insurance must be provided in accordance with Sewer Ordinance 255, Section 5.01.7, and Exhibit 10.01 and Water Ordinance 263, Section 6.2.

**- Sewer Service Requirements -**

**D. Sewer Pipe:**

1. Gravity sewer system: minimum of 4" diameter pipe
2. All pipe must have approved rubber gasket fittings, no glue joint or slip fittings
3. Orangeburg and ABS pipe may not be used for external piping and must be removed if they are the existing pipe material and encountered in the field
4. PVC SDR 35 with min. 24" of cover non traffic, **or** min. 36" of cover in traffic areas
5. PVC C-900 Class 150 if less than 24" of cover, **or** less than 30" of cover in traffic areas
6. DI Class 150 if less than 24" of cover, **or** less than 24" of cover in traffic areas
7. Bends shall be less than 45 degrees. If 45 degrees or greater, a cleanout shall be placed within 5' upstream of bend. If a 90 degree bend is desired, a special District clean out (c/o) arrangement is available (a handout is available). Bends of over 90 degrees are not allowed.
8. Pressure system: minimum of 2" diameter pipe, alarms, valves and pumps per Sewer Ordinance 255
9. Pressure pipe: Class 200: Polyethylene, Ductile Iron or SDR-21 Ring-Tite pressure pipe.
10. Tracer / locator wire must be attached to both gravity and pressure pipe
  - 10 AWG minimum THW, THHW, TW or THWN wet location insulation
  - Foundation c/o to property line c/o, 2-foot tail brought up in box
  - Shall surface at all mid-line c/os, continuous / unbroken coil in box
  - Shall be taped to the top of pipe at 5' intervals and at all bends
  - Splices, if needed, shall incorporate a U.L. listed underground splice kit
  - Wire shall be tested for continuity
  - "Sewer" burial tape must be installed 12" to 18" above all pressure sewer lines



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**E. Sewer Cleanouts:**

Cleanouts (c/os) must be installed:

1. Foundation c/o(s) within 5' of the foundation at each house sewer outfall.
2. Midline c/o(s) required if line exceeds 100 feet, a double-wye c/o may be used if desired
3. Property Line Double-Wye c/o(s) installed within 5' of the property line, on customer's side.
4. Immediately upstream of all bends of 45 degree and greater or at special 90 degree c/os.
5. Within a concrete box, equal to Christy N-9 or B12, or Christy G-5 (G-5 only if "T-Cone S402" caps are used) with a metal lid stamped "SEWER". All boxes must be covered to grade. If box is in a traffic area, it must be set 1/2" below finished grade.
6. All cleanouts must be the same size and material as the sewer service line.
7. T-Cone S-402 (or equal) or same as pipe material watertight caps are to be used.
8. Cleanout risers to be brought up at 90 degrees, all fittings to be close-coupled at the wye.

**F. Sewer Trench:**

1. Bedding material shall be imported Type 1 sand bedding material, unless in wet area, which shall then be imported Type 2, 3/4" crushed rock bedding.
2. All bedding material shall be placed 4" below and 12" above pipe.
3. Intermediate backfill shall be placed above the bedding material to the surface and must not contain rocks greater than 3". The use of screened native material is acceptable.
4. Compaction, intermediate backfill shall be compacted to prevent trench failure.
5. Slope shall be a minimum of 1/4" per foot (2% slope). In certain cases slope of less than 2% may be allowed, but requires prior approval of the District Engineer.
6. A backwater valve may be required if 2% slope cannot be maintained or if any fixture rim elevations are not above the rim level of the next upstream District manhole. Backwater valves shall be installed prior to the foundation cleanout, boxed and fully accessible.
7. When water lines share a common trench with sewer, the following shall apply:
  - Gravity Sewer & Water – minimum of ten feet of horizontal separation at all points – OR – water must be a minimum of 1 foot above and 1 foot horizontal from sewer at all points and water must sit on a separate solid bench.
  - Pressurized Sewer & Water – minimum of ten feet of horizontal separation at all points.
  - Sewer & Gas – gas must be a minimum of 1 foot above and 1 foot horizontal from sewer at all point and gas must be in a continuous sleeve
  - See Ord. 255, subsection-5.03.3.3 for separation criteria for other utilities and sewer.
8. Cover: SDR 35 shall have a minimum of 24" of cover in non-traffic and 36" of cover in traffic areas.
  - Non-traffic areas with less than 24" of cover require C-900 DR-14, DR-18 or ductile iron pipe.
  - Traffic areas with less than 36" of cover require C-900 DR-14, DR-18 or ductile iron pipe.



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9. All sewer pressure services shall have a minimum of 30" of cover and have "Sewer" burial tape installed 12" to 18" above all pressure sewer lines).
10. The District must inspect the trench prior to backfill.

**G. Sewer Pressure Test:**

1. A pressure test shall be performed after the trench has been backfilled to rough grade, and shall be witnessed by the District.
2. Gravity line air test: pipe shall hold 3.5 psi for 5 minutes with no more than 0.5 psi loss in pressure during the 5 minute period.
3. Gravity line water test: pipe shall hold 8 feet of water head, maximum of 15 feet of water head, (measured from pipe invert) for 5 minutes with no more than 1 inch of loss in water volume per each 100 feet of pipe length. Pre-approval from the District is required for this test.
4. Pump System Pressure line air test: pipe shall hold 10.0 psi for 10 minutes and shall have no loss in pressure. Pressure line must be drained for air test if system has a bypass valve.
5. Water testing of pump system pressure lines is not allowed.

**NOTE**

**SEWER ONLY CUSTOMERS PLEASE STOP HERE AND PROCEED TO PAGE 6  
(L. FINAL INSPECTION) OF THIS FORM.**

**SEWER AND WATER OR WATER ONLY CUSTOMERS PLEASE PROCEED TO THE NEXT SECTION BELOW  
(-Water Service Requirements-) READ AND COMPLETE THE REST OF THIS FORM.**



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**- Water Service Requirements -**

**H. Water Trench:**

1. Bedding material shall be Type 1 imported sand, unless in wet area, which shall then be Type 2, imported  $\frac{3}{4}$ " crushed rock bedding.
2. Bedding material shall be placed 4" below and 6" above pipe.
3. Intermediate backfill must not contain rocks greater than 3". Screened native is acceptable.
4. All Domestic and Fire Sprinkler service lines shall have a minimum cover of 30 inches to protect lines from freezing.
5. When water lines share a common trench with sewer, the following shall apply:
  - Gravity sewer & water lines – minimum of ten feet of horizontal separation at all points  
- OR – water line must have minimum of 1 foot vertical and 1 foot horizontal separation from the sewer line at all points and be on its own separate solid bench.
  - Pressurized sewer & water lines – minimum of **ten feet** of horizontal separation at all points.
6. The District must inspect the trench prior to backfill.

**I. Water Meter and Boxes:**

1. The District will install a meter, meter setter, valves, and meter boxes as part of a new construction or remodel permit for both domestic and fire sprinkler systems. Meter, meter head and all meter installation fees apply.
2. If the District determines that you will need to install a Domestic meter setter and a meter boxes and/or a Fire Sprinkler meter and meter boxes as part of your construction permit, you will be given the specifications and details needed to perform the installation as part of your other or special conditions of service prior to issuance of your permit. Meter fees apply.

**J. Water Pipe:**

1. Domestic service: minimum of 1" I.D. (inside diameter),  $\frac{3}{4}$ " I.D. may be allowed if approved by the District
2. Domestic service: Copper Type K or high density polyethylene (HDPE) with a rated minimum 160 psi. All parts used must be lead free
3. Fire Sprinkler service: minimum of 1" I.D. (inside diameter) or as determined by the property owner's engineer and approved by the District –  $\frac{3}{4}$ " I.D. may be allowed if approved by the District
4. Water Service Installation: Copper Type K or polyethylene with a rated minimum 160 psi or C900 class 200 PVC water main pipe. All parts used must be lead free, including any backflow assembly.
5. Tracer / locator wire must be attached to both the domestic and/or fire service lines.
  - Wire must come up in the service box and terminate at the foundation
  - 10 AWG minimum THW, THHW, TW or THWN wet location insulation
  - Shall be taped to the top of pipe at 5' intervals and at all bends
  - Splices, if needed, shall incorporate a U.L. listed underground splice kit
  - Wire shall be tested for continuity
  - Recommend "water" burial tape installed above water and/or fire service lines



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**K. Water Pressure Test:**

1. During the trench inspection, a 15 minute pressure test of both the domestic and/or fire service lines shall be conducted. Pressure testing of the domestic and/or fire service lines shall be under the normal working pressure of the supplying District water main with no detectable leakage.
2. All water lines, the domestic meter, meter setter and/or fire service meter (meters and setters only if property owner was required to install them as a condition of service) installed shall be left exposed from the District curb stop valves to the foundation.
3. The domestic and/or fire service lines shall be fitted with a valve or hose bib at the house connection end of the lines to facilitate flushing and charging of the service lines for testing. The District inspector will verify that the lines are charged prior to testing.
4. Pressure testing of the domestic and/or fire service lines shall be under the normal working pressure of the supplying District water main with no detectable leakage.
5. A contractor will perform the water pressure test and the District shall witness the test.

**L. Final Inspection:**

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1. Customer must call 530-580-6281 for a final inspection when all required pre-final inspections and testing have been successfully completed and all fixtures are set.
  2. Fixtures in "improvement" area(s) must be low-flow, and shall meet all Local, State and Federal Regulations as stated below:

Fixtures must meet current standards: Single flush toilets - 1.28 gallons/flush; Dual flush toilets - 1.28 gallons/flush effective flush volume (the composite, average flush volume of the two reduced flushes and one full flush); Urinals - 0.125 gallons per flush; Showers - 2.0 gallons per minute; Faucets - 1.5 gallons per minute (restrooms), 1.8 gallons per minute (kitchens).

Fixtures in "non-improvement" area(s) that are defined as **Noncompliant** per CA Civil Code Section 1101.3 must be changed out to current low-flow standards as described above.

**Noncompliant Plumbing Fixture** means any of the following:

- 1) Any toilet manufactured to use **more** than 1.6 gpf; 2) Any urinal manufactured to use **more** than 1.0 gpf; 3) Any showerhead manufactured to have a flow capacity of **more** than 2.5 gpm; 4) Any interior faucet manufactured to have a flow capacity of **more** than 2.2 gpm

\*\*Code Reference(s)-Senate Bill 407; California Civil Code Sections 1101.1-1101.8; 2016 CA Plumbing Code chapter 4\*\*

3. Internal domestic water pressure, must be 60 psi or less for any water district or system. This may require the installation of a pressure-reducing valve on the water service line. (These are typically installed where the water line enters the building, before the water heater.)
4. Cleanouts must be boxed, exposed and to grade, with proper caps and steel lids marked "Sewer."
5. (WATER ONLY) Water box lids must be boxed, exposed and to grade with steel lids marked "Water".
6. (WATER ONLY) If potential hazards to the drinking water system are found during the final inspection, backflow prevention assemblies must be installed and tested prior to final approval. Hand held shower heads must maintain a clearance of a minimum of 1" above the rim of the tub or shower basin, OR Hand held shower heads must have a built in or owner installed approved backflow prevention assembly at the point of connection.



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**M. Safety:**

1. The applicant shall follow all applicable State of California safety regulations and construction industry best practices. For additional information regarding Trench Safety, see Title 8 California Code of Regulations, Sections 1539-1543. For additional information regarding Asbestos Cement Pipe Safety, see Title 8 California Code of Regulations, Sections 1529, 5208, 341.17 and California Labor Code Section 6501.8(c).
2. The District Inspector reserves the right to cancel an inspection at any time due to safety concerns. The Applicant shall pay all extra costs for re-inspection.

**N. Other or Special Conditions or Requirements:**

The following conditions or requirements as determined by a District representative shall also apply to your permit. Other terms, conditions and requirements not listed here and within this document may also apply. Applicant to sign and date if applicable.

(Water Only) Domestic and Fire Sprinkler Meter Installation Responsibility (if required)

- The District will install a domestic water meter, setter and boxes (if required).
- The District will install a fire sprinkler meter, setter and boxes (if required).
- The District will install a combined domestic/ fire sprinkler meter, setter and boxes (if required).

Other or Special Conditions or Requirements as determined by the District

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See additional attached conditions or requirements

Read Inspector Plan Review Notes and Comments

Heat Exchanger – see attached Water Heat Exchanger press release

\_\_\_\_\_  
Property Address

\_\_\_\_\_  
APN

\_\_\_\_\_  
Applicant Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
District Representative

\_\_\_\_\_  
Date





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New Construction Delay Start Billing for sanitary sewer service. Billing will be delayed for two consecutive quarters after the quarter in which a successful sewer trench inspection is completed. Teardown-rebuild remodels may also qualify for delay start billing. No further billing delays or extensions will be offered. See schedule below.

| Trench inspection Quarter | Start Billing |
|---------------------------|---------------|
| 1 (Jan, Feb, Mar)         | OCT           |
| 2 (Apr, May, Jun)         | JAN           |
| 3 (Jul, Aug, Sep)         | APRIL         |
| 4 (Oct, Nov, Dec)         | JULY          |

N/A to this permit, as determined by the District.

I understand and agree to the provisions and benefits offered in the New Construction Delay Start Billing for residential sewer service. I also understand that no further billing extensions or delays shall be offered. These provisions and benefits may also apply to qualifying Tear Down-Rebuild Remodels. TTSA sewer billing is not included in this agreement.

Applicant sign: \_\_\_\_\_

The major remodel permit fee includes four (4) inspections and the minor remodel permit fee includes (1) inspection; any additional inspections will incur extra charges.

All applicants must comply with the service requirements and new construction / remodel procedures contained herein and in District Ordinances 255 and 263. The requirements are based upon today's application. If you have any changes or modifications to the application please notify the District.

**Applicant Statement: I acknowledge that I have received, read and agree to the District sewer and/or water conditions of service requirements as stated in this document and shall abide by all regulations and requirements stated in District Ordinances 255 and 263.**

\_\_\_\_\_  
Property Address

\_\_\_\_\_  
APN

\_\_\_\_\_  
Applicant Print Name

\_\_\_\_\_  
Applicant Signature

\_\_\_\_\_  
Date

***For District Use Only***

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_  
District Representative

\_\_\_\_\_  
Date