

104 TAPS AND CONNECTIONS

104.1 GENERAL

- 104.1.1 All taps and/or connections to water mains, public and private, shall be made by the Water Utility or its authorized contractors. Taps will be made only after application is completed by the contractor or owner as outlined in Section 103 of these Rules and Regulations.
- 104.1.2 The Water Utility will assess trip charges for each trip outside the city limits made to the same site location unless notification is given by the contractor that the site is not ready for the tap to be made prior to the dispatching of the tapping crew (see Appendix A - Fee Schedule).
- 104.1.3 No new tap shall be installed where a water service or stub already exists unless prior approval has been obtained from the Water Utility.
- 104.1.4 A minimum of 24-hour advanced notification is requested for taps. Before a tap request is made, the appropriate documents must have been completed and filed in the Water Utility's office in accordance with Section 103 of these Rules and Regulations.
- 104.1.5 All residential, domestic and fire demands shall be supplied by a single tap.

104.2 LOCATION OF TAP

- 104.2.1 Generally, taps will be made for 1" services at a 45-degree angle on the main within the projected lot lines of the property to be served. Taps 1¼" and larger will be made at a 90 degree angle.
- 104.2.2 Taps on the backside of the main will be made only after the proper side of the main has been exposed and the Water Utility personnel has verified that obstacles make it impossible to tap the house side of the main.
- 104.2.3 Taps shall not be located:
- 1) Closer than 18" from another tap, joint or pipe fitting;
 - 2) On hydrant branches; or
 - 3) Within an intersection.
- 104.2.4 Tapping sleeve and valve (TS &V) or 'T' service connections shall not be located closer than 3' from another TS &V, pipe joint or fitting.

104.3 SIZE OF TAP

104.3.1 Minimum size tap allowed is 1".

104.3.2 1" tapping procedures are as follows:

- 1) A direct tap may be made on ductile or cast iron pipe 6" or larger.
- 2) A saddle and corporation will be used on ductile or cast iron pipe smaller than 6" and on all PVC pipe.

104.3.3 All 1½" and 2" taps require a saddle and corporation.

104.3.4 Taps larger than 2" will be made by the installation of a TS & V at the main, or a similar manner, as prescribed by the Water Utility.

104.3.5 Taps of a size equal to the main may be allowed.

104.4 EXCAVATION FOR TAP

104.4.1 The contractor shall make the excavation required for the tapping of the water main. For 1" through 2" taps the floor of the excavation shall be level leaving a clearance of at least 12" around the main (see Appendix B, figures B-2 and B-3). For taps larger than 2" (see Appendix B, Figure B-4).

104.4.2 The excavation shall be shored in accordance with OSHA and the Iowa Occupational Safety & Health Standards for the Construction Industry (IOSH) rules. Water Utility employees will not enter an excavation or trench that does not conform to OSHA and IOSH requirements. Contractors shall be solely responsible for compliance to OSHA and IOSH excavation and trench protection.

104.4.3 Tapping of a main with structures or obstructions overhead will be permitted only if IOSH standards are met.

104.5 REMOVAL OF TAP OR CONNECTION

- 104.5.1 For services having a corporation tap that are to be disconnected from the corporation stop, the corporation shall be capped and the stop box and rod shall be removed in accordance with these Rules and Regulations. This work shall be performed at the owner's expense by a licensed plumbing contractor and inspected by a representative of the Water Utility.
- 104.5.2 When services are connected to the main by a 'T' or tapping sleeve and valve they are to be removed from the main and replaced with a short length of pipe or repair sleeve. This work to be completed at the owner's expense.
- 104.5.3 Removal of taps or connections through a tunnel, with dirt or concrete overhead, will not be permitted due to the hazard incurred by workers.
- 104.5.4 With proper application, a service connection may be left as a stubbed service for up to one year (see Appendix B, Figure B-16).
- 104.5.5 When service is left as a stub, it shall be plugged at the stop box and inspected by the Water Utility.