



RIVERGROVE WATER DISTRICT

17661 PILKINGTON ROAD
LAKE OSWEGO, OR 97035
503-635-6041

DATE 6/2023

SCALE N.T.S.

DWG NO. RGWD-1

STANDARD NOTES

1. OREGON LAW REQUIRES THAT RULES ADOPTED BY OREGON UTILITY NOTIFICATION CENTER BE FOLLOWED. THOSE RULES ARE SET FORTH IN OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER OR ACCESSING VIA INTERNET AT WWW.STATE.OR.US/GOVERNMENT.HTM. CALL BEFORE YOU DIG; PORTLAND METRO AREA 503-246-6699.
2. CONTRACTOR SHALL OBTAIN A STREET OPENING PERMIT FROM THE CITY OF LAKE OSWEGO OR CLACKAMAS COUNTY AS APPLIES AND BE RESPONSIBLE FOR CONDITIONS OF PERMIT.
3. CONTRACTOR SHALL NOTIFY THE RIVERGROVE WATER DISTRICT 3-5 DAYS BEFORE STARTING CONSTRUCTION OR 24 HOURS BEFORE RESUMING WORK AFTER SHUTDOWNS, EXCEPT FOR NORMAL RESUMPTION OF WORK FOLLOWING SATURDAYS, SUNDAYS, OR HOLIDAYS. NO WORK WILL BE ALLOWED ON SATURDAYS, SUNDAYS, OR HOLIDAY UNLESS PREVIOUSLY APPROVED BY THE RIVERGROVE WATER DISTRICT.
4. ALL WATER LINE CONSTRUCTION AND INSTALLATION OF SERVICES AND EQUIPMENT SHALL BE IN CONFORMANCE WITH CURRENT CITY OF LAKE OSWEGO CONSTRUCTION STANDARD SPECIFICATIONS AND DETAILS EXCEPT AS MODIFIED BY THESE STANDARD NOTES OR BY DIRECTION OF THE RIVERGROVE WATER DISTRICT.
5. MATERIALS SHALL BE AS FOLLOWS: DUCTILE IRON PIPE-CLASS 52, FITTINGS TO BE OF CLASS AND RATING EQUAL TO ADJACENT PIPE, GATE VALVES-IRON BODY, BRONZE MOUNTED, RESILIENT WEDGE, NRS, PER AWWA C509 OR C515, VALVE BOXES-VANCOUVER STYLE, MODEL NO. 910 OR EQUAL, CORPORATION STOPS-MUELLER 15000 OR H15025 OR FORD F-600 OR HAYES H-25021, COMPRESSION COUPLINGS-ROCKWELL TYPE 411 REQUIRED.
6. ALL WATER MAIN PIPING JOINTS SHALL BE 100% MECHANICALLY RESTRAINED WITH "FIELD LOCK" GASKETS OR RETAINER GLANDS SUCH AS "MEGA-LUG" OR EQUAL.
7. METER BOXES SHALL BE ARMORCAST ROTOCAST 13"X24"X12" TRAFFIC RATED, WITHOUT MOUSE HOLES AND WITH 5"X7" DROP-IN LID, AND INSTALLED BY THE CONTRACTOR AT THE LOCATIONS SPECIFIED ON THE PLANS.
8. UNLESS OTHERWISE SPECIFIED WATER SERVICE LINES SHALL BE SINGLE SERVICE AND 1" IN DIAMETER TYPE K (SOFT) WITH NO SPLICES. ADAPTERS ARE NOT ALLOWED.
9. FIRE HYDRANTS SHALL BE WATROUS (PACER), PAINTED RODDA "SAFETY OR EQUIPMENT YELLOW" WITH INSTALLATION CONFORMING TO LAKE OSWEGO STANDARD DETAIL C-401, WITH INTEGRAL STORZ QUIK DISCONNECT ADAPTERS.
10. ALL ELEVATIONS ARE BASED ON BENCHMARK.
11. ALL WATER PIPE SHALL HAVE A MINIMUM OF 36" COVER TO FINISH GRADE UNLESS OTHERWISE SPECIFIED.
12. NO PUBLIC WATER VALVES SHALL BE OPENED OR CLOSED BY ANYONE OTHER THAN RIVERGROVE WATER DISTRICT STAFF.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE PROPER SEPARATION BETWEEN SANITARY SEWER LINES AND WATER LINES AS REQUIRED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY AND STATE DEPARTMENT OF HEALTH.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH WATER QUALITY TESTING. TESTING AND DISINFECTION SHALL BE CONDUCTED IN ACCORDANCE WITH RIVERGROVE WATER DISTRICT STANDARDS. RIVERGROVE WATER DISTRICT STAFF SHALL OBSERVE ALL TESTING, PERFORM DISINFECTION PROCEDURE PER RGW S001-2003 AND WILL TAKE WATER SAMPLES FOR DISINFECTION TESTS. PIPELINES SHALL BE FLUSHED AND DISINFECTED BEFORE PLACING INTO SERVICE AND PRIOR TO PERFORMING HYDROSTATIC TESTING.
15. THE PERMIT OR APPROVAL GRANTED HEREBY, OR ANY INSPECTIONS CONDUCTED ON THE SITE HEREAFTER, SHALL NOT BE CONSTRUED AS AUTHORIZING ANY ACTIVITY IN VIOLATION OF ANY APPLICABLE FEDERAL OR STATE LAW OR REGULATION, INCLUDING BUT NOT LIMITED TO THE FEDERAL ENDANGERED SPECIES ACT AND ITS REGULATIONS.



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ADDITIONAL CONSTRUCTION STANDARDS

Corporation Stops, Taps, and Abandonment of Water Services

DESCRIPTION

Installation of new corporation stops, taps, or the abandonment of existing water services will be performed in accordance with the ordinance and standards of the Rivergrove Water District. Developer/applicant or developer's/applicant/s contractor will notify the Rivergrove Water District **3-5 days in advance of start date** to schedule the construction work to ensure a District representative is on site for any/all work involving trenching or connecting to the main. At no time shall a contractor excavate or start the installation process without a District representative being on site. All parts and materials will be acquired by developer/applicant and will meet City of Lake Oswego standards. Materials used will be inspected by the District representative before any work begins. All completed work (i.e., connection to the water main, taps, and installation of the customer's service line to the meter will be inspected by the District representative. **If the developer/applicant fails to have all parts and materials on-site and the work must be rescheduled, a rescheduling fee of \$200** will be charged and paid in advance. The installation process shall begin any time after 8:00 am and shall be completed no later than 3:00 p.m.

MATERIALS

Materials shall be specified and approved, and shall never be less than those currently approved by City of Lake Oswego, AWWA, and ASASTM standards. All materials shall be on-site prior to the start of installation. For new service tap: size of tap, corporation stop, and service saddle for new water services shall be the same nominal size as the new water service tubing, unless otherwise noted.

Corporation stops: Corporation stops shall be the ball valve type and shall be Ford or Mueller. Corporation stops for use with the saddle shall be bronze in accordance with AWWA Standard C800 with AWWA IP inlet by compression outlet.

Water Service Saddles: Service saddles that connect to ductile iron water mains shall be double strap, all brass tapping saddles with Buna-N (Nitrile) or EPDM rubber gasket with AWWA tapered threads. Service saddles that connect to asbestos cement water mains shall be ROMAC, Ford, or equal, and shall have stainless steel double straps.

Drilling/Tapping Machine and Tools: Taps shall be made with a drilling/tapping machine specially designed for the intended work and shall be in good working condition. Hand-held drills shall not be used for making taps. The tapping machine shall be capable of attaching to and cutting through the corporation stop. The tapping machine or tool shall be designed to operate with drilling/cutting tools required for the specific pipe material being tapped.

CONSTRUCTION DETAILS

General: Asbestos cement and ductile iron water distribution pipes shall have fittings in accordance with AWWA C110, C153, C104, and C600. Only equipment specially designed for this purpose and that is in good working condition shall be used. In no instance shall a hand-held drill be used for making taps.

When drilling into the main, care shall be taken to completely cut through the water pipe wall. Taps shall be made on the customer's side of the water main at an angle between 5 and 15 degrees from the horizontal centerline of the main toward the top of the water main. The tap shall be no closer than 2 feet from the back end of the bell or spigot insertion line. All new taps must be made at least 18 inches from the existing tap or pipe damage. Multiple taps shall be staggered at least 18 inches apart lengthwise on the main.

A new copper service line and corporation stop will be installed. All service lines will be installed at a minimum depth of 18 inches and a maximum depth of 24 inches. The contractor shall thoroughly clean all tapped threads and remove any remnants of water pipe materials.



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The threaded end of the corporation stop shall be wrapped with Teflon tape and the corporation stop shall be threaded into the tapped hole and tightened to ensure a watertight fit. If a corporation stop leaks, the process outlined above shall be repeated as necessary until a successful water-tight installation is achieved.

The backfilling of the trench shall be done in a manner to avoid damage to the corporation stop. Contractors are prohibited from tapping either the backside or top of the water main.

Abandonment of Existing Water Service at Tap: The existing corporation stop shall be completely closed before the water service line is disconnected at the existing corporation stop. After removal of the service line from the corporation stop, a repair band shall be installed on the outlet side of the corporation stop to cover the existing/original hole. The old service line will be removed in its entirety. If the water service line cannot be removed without damaging the existing corporation stop and/or creates a leak, the water service line shall be sawed off at the existing corporation stop. The nut on the bottom of the existing corporation stop, if present, shall be completely tightened. If the existing corporation stop leaks when fully closed or after being tightened, the existing corporation stop shall be completely plugged as approved by the Rivergrove Water District.

Water Service Tap at Water Main with Abandonment of Existing Water Service Tap: The contractor is responsible for: making a new tap at the water main; furnishing and installing a new corporation stop; installing a new copper service line; installing a new saddle; connecting the new copper service line to the new corporation stop; closing and plugging the existing corporation stop with a repair band; and disconnecting the existing water service line from the existing corporation stop.

Excavation, Backfill, and Surface Restoration: The contractor is responsible for the surface restoration of the area by furnishing and placing bedding and proper backfill to ensure the area is restored to its original condition.

ADDED NOTES

Meter/Meter Box: The District is responsible for installing the meter and meter box which is paid for by the developer/applicant. The developer/applicant is responsible for providing the corporation stop, copper service line, curb stop, repair saddle, and straight meter coupling appropriately sized for connecting the customer's water service.

Working with Asbestos Cement Pipe: When working with asbestos cement pipe, the work shall be done in a manner that minimizes workers' exposure to asbestos material at or below the exposure limit as prescribed in state and federal guidelines and certifications.

Backfill Requirements: As a developer/applicant working within the Rivergrove Water District, there will be additional and unique requirements from Clackamas County or the City of Lake Oswego when backfilling open trenches. It is the responsibility of the developer/applicant to ensure these municipalities' standards are met. The standards are included in the permitting documents and shall be adhered to.

Additional Notes for Developer/Applicant: