

**City of Marysville**  
**Water Line Notes to be on all Future Plans**  
Effective January 6, 2021

1. All water line and appurtenances, materials and installation procedures, shall be in accordance with the current rules and regulations of the City of Marysville.
2. All water line materials and installation procedures shall be in accordance with the current rules and regulations of the City of Marysville and the AWWA. The water line material shall be clearly identified as conforming to AWWA standards. Water line pipe size 4 inch in diameter shall conform to the requirements of AWWA C900. Water line pipe sizes 6 inches through 12 inches in diameter shall conform to the requirements of AWWA C909, Class 235. Water line pipe sizes greater than 12 inches in diameter shall conform to the requirements of AWWA C905.
3. All residential service lines shall be 1" minimum.
4. Water Line trenches shall be dewatered to 2" below the bell of pipe prior to installation.
5. In case of a conflict in grade between storm sewers and water line, the water line shall be lowered.
6. All water meters shall be installed inside of the proposed structure, not in a meter pit, unless said meter pit is approved by the City of Marysville. Meter pits shall comply with Standard Drawing WTR-07.
7. A bronze pad lockable meter bypass ball valve, Apollo 75-100 Series or equal, is required for 1 1/2" and larger meters.
8. Water service boxes shall be set at the following locations:
  - Short Service Runs – At the Right-of-Way line or 1 foot behind the back of sidewalk.
  - Long Service Runs - 4 feet from the edge of sidewalk (between sidewalk and curb) or centered between the sidewalk and curb.
  - Water service boxes will not be permitted within the concrete sidewalk or future asphalt/concrete driveways.
9. Water lines shall have a minimum cover of 4 feet 6 inches from final grade.
10. Contractors shall provide Megalug retaining glands or approved equal at all bends and tees. Contractors shall back bends, elbows, tees with solid concrete blocks against undisturbed soil. Hardwood wedges shall be used where necessary.

11. Fire hydrants shall be Mueller Company Centurion 250 Hydrant with a 4 1/2 main valve opening. They are to have a three way upper barrel with one 4 1/2 inch pumper nozzle with an integral 5" Storz connection installed, and two 2 1/2 inch hose nozzles. Must meet A.W.W.A. C-502 standards.
12. All service lines shall be Type K soft copper conforming to ASTM B-88, and underground joints must be compression. AWWA C909 water line shall be used if service exceeds 2 inches.
13. Water line shall be deflected, per manufacturer specifications, to provide 1 ft 6 in vertical and 10 ft horizontal clearance with sewers. If this is not feasible, then Standard Construction Drawing WTR-06 applies.
14. All water mains are to be separated 10 feet horizontally and 1.5 feet vertically from all parallel sanitary sewers.
15. Whenever a water main and sanitary sewer must cross, the water main shall be 1.5 feet above the crown of the sewer pipe. Measurement to be between the outside of pipe walls.
16. If the top of the operating nut for water valve is greater than 36 inches below finish grade, an extension stem shall be furnished to bring the top of the operating nut to 36 inches below final grade.
17. Transverse water lines within the pavement area shall be backfilled with ODOT 304 compacted granular material or ODOT 613 (LSM) to three feet beyond the face of curb or edge of pavement.
18. Pressure testing will be in accordance with AWWA C909 and ASTM F1483 PVCO Pipe.
19. All water mains shall be disinfected in accordance with the City of Marysville specifications. Special attention is directed to applicable sections of AWWA C651 particularly for flushing (Section 5) and for chlorinating valves and fire hydrants.
20. Individual booster pumps will not be allowed for any individual service. (Ohio Administrative Code Rule 3745-95-07(A))
21. The normal working pressure in the waterline will not be less than 35 PSI. (2003 Recommended Standards for Water Works, Pressure, section 8.2.1) and a minimum of 20 PSI shall be maintained at ground level at all points of the distribution system under all operating conditions
22. Water Lines shall be installed and tested in accordance with ANSI/AWWA C605-13; Underground Installation of Polyvinyl Chloride (PVC) and Molecularly Oriented Polyvinyl Chloride (PVCO) Pressure Pipe and Fittings.

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Backfill operations shall conform to the Standard Construction Drawings  
and meet the specifications listed below in Notes 1, 2, and 3.

1. Trenches outside of the influence of streets shall require 95% of maximum dry laboratory weight at plus or minus 2% of optimum moisture. Material shall be per ODOT 203.07 and Supplemental Specification 1015.
2. Storm, sanitary, and utility trenches within 3 feet of the edge of pavement and within the cone of influence shall require 98% of the maximum dry laboratory weight at plus or minus 2% optimum moisture. Backfill material shall be ODOT 304 aggregate or COM Low Strength Mortar (LSM) 185. Where said results indicate the trench backfill does not meet the compaction requirements of ODOT 203.07 of the construction and materials specification, all backfill shall be removed and retested until compaction meets the requirements of 203.07. Cone of influence to begin 3 feet from the edge of pavement and extend one foot in distance for every one foot of depth.
3. Storm, sanitary, and utility trenches under road pavement shall require 98% of the maximum dry laboratory weight at plus or minus 1.5% optimum moisture. Backfill material shall be ODOT 304 aggregate or COM LSM 185. Backfill to begin 3 feet from edge of pavement and extend one foot in distance for every one foot of depth. Where said results indicate the trench backfill does not meet the compaction requirements of ODOT 203.07 of the construction and materials specification, all backfill shall be removed and retested until compaction meets the requirements of 203.07.