

WATER SYSTEM STANDARD GENERAL NOTES

1. ALL WATERLINES AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH CURRENT EDITIONS OF THE CITY OF HILLSBORO DESIGN AND CONSTRUCTION STANDARDS, AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS, OREGON ADMINISTRATIVE RULES (OAR), AND THE OREGON PLUMBING SPECIALTY CODE (OPSC).
2. LOCATIONS SHOWN FOR EXISTING UTILITIES ARE BASED ON AVAILABLE INFORMATION AND ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION; POTHOLE ALL EXISTING UTILITIES AS REQUIRED TO AVOID CONFLICTS WITH THE PROPOSED WATER LINE; AND INFORM THE ENGINEER OF ANY DISCREPANCIES IN THE PLANS.
3. THE CONTRACTOR SHALL CALL THE OREGON UTILITY NOTIFICATION CENTER (811) AT LEAST 48 HOURS, BUT NOT MORE THAN 10 BUSINESS DAYS, BEFORE BEGINNING EXCAVATION. OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. COPIES OF THE RULES ARE AVAILABLE THROUGH THE NOTIFICATION CENTER. IF ADDITIONAL INFORMATION IS DESIRED, YOU MAY CONTACT THE WATER DEPARTMENT AT 503-615-6700.
4. THE CONTRACTOR SHALL NOTIFY THE CITY OF HILLSBORO WATER DEPARTMENT AT 503-615-6702 A MINIMUM 48 HOURS (TWO BUSINESS DAYS) PRIOR TO CONSTRUCTION. WEEKENDS AND HOLIDAYS ARE NOT TO BE COUNTED AS PART OF NOTIFICATION TIME.
5. ALL WATER MAIN LINES SHALL BE CLASS 52 ZINC COATED DUCTILE IRON PIPE PER AWWA C151 UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS. ALL WATERLINES LOCATED UNDER A HARD SURFACE SHALL HAVE FULL DEPTH ROCK BACKFILL PER OREGON DEPT OF TRANSPORTATION (ODOT) STANDARDS, COMPACTED TO 95% AASHTO T-99, WITH A MINIMUM COVER OF 36 INCHES ON IMPROVED ROADS AND 48 INCHES ON UNIMPROVED ROADS OVER THE TOP OF THE PIPE.
6. ALL WATER SERVICE LINES SHALL HAVE A MINIMUM COVER OVER THE TOP OF THE PIPE OF 30 INCHES ON IMPROVED ROADS AND 42 INCHES ON UNIMPROVED ROADS, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
7. ALL WATER MAIN LINES, SERVICE FITTINGS, AND JOINTS SHALL BE RESTRAINED WITH MECHANICAL RESTRAINTS, FIELD LOCK GASKETS, OR APPROVED EQUIVALENT.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE PROPER HORIZONTAL AND VERTICAL SEPARATION BETWEEN SANITARY SEWER LINES AND WATERLINES AS REQUIRED BY THE OREGON HEALTH AUTHORITY, PUBLIC HEALTH DIVISION, OAR 333-061-0050.
9. ON-SITE DOMESTIC WATER SERVICE LINES SHALL BE INSTALLED AS REQUIRED BY OPSC. CONTACT THE CITY OF HILLSBORO BUILDING DEPARTMENT AT 503-681-6144 FOR REQUIREMENTS.
10. PRIOR TO BEING PLACED IN SERVICE, ALL WATERLINES AND SERVICES SHALL BE LEAK TESTED, FLUSHED, STERILIZED, AND BACTERIOLOGICALLY TESTED BY THE CONTRACTOR, ALL IN ACCORDANCE WITH CITY OF HILLSBORO DESIGN AND CONSTRUCTION STANDARDS AND OPSC. A WATER DEPARTMENT REPRESENTATIVE MUST BE PRESENT DURING PRESSURE TESTING, FLUSHING AND DISINFECTION.
11. THE CONTRACTOR SHALL PROTECT ALL WATER APPURTENANCES DURING CONSTRUCTION. ANY TESTED AND APPROVED WATER SERVICE THAT IS DISTURBED PRIOR TO THE CITY'S FINAL ACCEPTANCE OF ALL PUBLIC IMPROVEMENTS SHALL BE REMOVED AND REPLACED BACK TO THE WATER MAIN AT THE DEVELOPER'S EXPENSE.
12. NO CONNECTION TO AN EXISTING WATERLINE SHALL BE MADE WITHOUT AUTHORIZATION BY THE CITY OF HILLSBORO WATER DEPARTMENT.
13. NO WATER VALVE SHALL BE OPERATED WITHOUT AUTHORIZATION BY THE CITY OF HILLSBORO WATER DEPARTMENT.
14. IN THE EVENT OF A CONFLICT OR CHANGE IN CONDITIONS, THE CITY OF HILLSBORO WATER DEPARTMENT RESERVES THE RIGHT TO MAKE FIELD ADJUSTMENTS TO THE LOCATION OF A WATERLINE OR APPURTENANCE AS REQUIRED FOR CONSTRUCTION.
15. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL REQUIRED EROSION CONTROL MEASURES IN ACCORDANCE WITH THE CURRENT EDITION OF CLEAN WATER SERVICES' "EROSION PREVENTION AND SEDIMENT CONTROL STANDARDS" AND CITY OF HILLSBORO GRADING AND EROSION CONTROL PERMITS. COORDINATE EROSION CONTROL MEASURES WITH THE CITY OF HILLSBORO INSPECTOR.
16. ALL EXISTING ASPHALT CONCRETE (AC) PAVEMENT AND/OR PORTLAND CEMENT CONCRETE (PCC) SHALL BE SAW CUT AS REQUIRED FOR REMOVAL.
17. ALL DAMAGE CAUSED BY THE CONTRACTOR, INCLUDING LANDSCAPING, SHALL BE RESTORED TO AN "AS GOOD OR BETTER" CONDITION AS DETERMINED BY THE CITY OF HILLSBORO WATER DEPARTMENT.
18. WATER MAIN AND SERVICE SHUT-OFFS SHALL BE COORDINATED THROUGH A WATER DEPARTMENT REPRESENTATIVE. REQUIRED NOTIFICATION FOR SHUT-OFFS SHALL BE DONE ONLY AFTER ACCEPTANCE OF WATERLINE BY WATER DEPARTMENT. SHUT-OFFS SHALL BE DONE 48 HOURS PRIOR FOR RESIDENTIAL PROPERTIES AND 72 HOURS PRIOR FOR COMMERCIAL OR INDUSTRIAL PROPERTIES, NOT COUNTING WEEKENDS & HOLIDAYS. FAILURE TO PERFORM WORK WITHIN THE STATED TIME WILL REQUIRE RE-NOTIFICATION.
19. TRAFFIC CONTROL IN THE RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ODOT "MANUAL ON TRAFFIC PRACTICES HANDBOOK FOR LOCAL ROADS AND STREETS IN OREGON." DURING THE WORK DAY, ONE LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. ALL LANES OF TRAFFIC SHALL BE RESTORED AT THE END OF EACH WORK DAY. ALL TRAFFIC CONTROL PLANS SHALL BE SUBMITTED TO THE CITY OF HILLSBORO ENGINEERING DIVISION OR APPLICABLE ROADWAY JURISDICTION FOR APPROVAL.
20. THE CONTRACTOR SHALL CONFINE PUBLIC IMPROVEMENT WORK TO THE DEDICATED RIGHT-OF-WAY AND UTILITY EASEMENT AREAS.
21. DURING CONSTRUCTION, THE CONTRACTOR AND/OR SUBCONTRACTORS SHALL HAVE A MINIMUM OF ONE (1) SET OF APPROVED CITY-STAMPED PLANS AND SPECIFICATIONS ON THE JOB SITE AT ALL TIMES.
22. THE CONTRACTOR SHALL VERIFY THE RESTRAINED CONDITION OF EXISTING WATER SYSTEM PIPES AND APPURTENANCES, AND INSTALL THRUST RESTRAINTS AND STRADDLE BLOCKS WHERE REQUIRED OR AS DIRECTED, PRIOR TO CUTTING AND REMOVAL OF ANY PORTION OF THE EXISTING WATER SYSTEM.