1. THE RULES AND REGULATIONS INCLUDED HEREIN ARE NOT TO BE CONSIDERED AS COMPLETE. THE FOLLOWING PAMPHLET IS DESIGNED TO ADDRESS THE MORE COMMON CONCERNS FOUND DURING INSPECTIONS OF THE WATER SYSTEM. IT SHALL BE THE RESPONSIBILITY OF THE BUILDER, OWNER, OR CONTRACTOR, TO CALL INSPECTORS TO CLARIFY ANY SITUATION THAT IS NOT CLEARLY ADDRESSED IN THESE REGULATIONS IN REGARD TO SITE PLANS, BUILDING DESIGN, ETC. ALL REQUIREMENTS LISTED MUST BE MET PRIOR TO A CERTIFICATE OF OCCUPANCY BEING ISSUED.

2. All excavations will be sloped, shored, or benched according to DOSH Department of Labor and Industry standards to provide safe access per WAC 296 155 Part N

3. INSPECTIONS:

NO ON PROPERTY INSPECTION WILL BE MADE UNTIL A METER PERMIT HAS BEEN PURCHASED UNLESS PERFORMING AN ON PROPERTY REPAIR

ALL WATER SERVICE INSTALLATIONS, FROM THE PROPERTY LINE TO THE MAIN SHUT-OFF VALVE OR VALVES INSIDE THE BUILDING OR BASEMENT, REQUIRE INSPECTION BY THE WATER DEPARTMENT INSPECTOR BEFORE COVERING.

ALL INSPECTIONS REQUIRE A 48 HOUR NOTICE.

At the time of the inspection water for construction and the current monthly charge for construction water will commence. Construction water charges will continue until
installation of the water meter. Once the meter is installed, construction water charges will cease, and the current, regular monthly fees for water service and water use will commence.

4. **BACKFLOW / CROSS-CONNECTON**:  
The policies, procedures and criteria for determining Backflow/Cross Connections (actual and possible) and appropriate levels of protection shall be in accordance with the City of Spokane Water Department Cross Connection Control and Backflow program, rules and regulations, Washington Administrative Code (WAC 246-290-490) and the City of Spokane Municipal Code 13.04.0814.

Examples of areas where devices/assemblies will be needed: Backflow protection shall be installed on service laterals where the point of use exceeds 30 feet above the distribution main. Buildings over 30' above street level, medical facilities, laboratories/clinics, fire protection systems, irrigation systems (Yard Hydrants are considered a part of an irrigation system), boilers, post mix soda pop machines, food processing, car washes and/or other facilities where chemicals are used or are injected into the water system, etc. All Backflow Assemblies must be on the Washington State Approved Assemblies list. All Backflow Assemblies will be tested when initially installed, repaired, replaced or moved. The owner is required to have a State Certified Backflow Assembly Tester (BAT) test all Backflow Assemblies annually thereafter. BAT shall tag assemblies tested noting time and date of test.

Where a meter exists in a meter box and the concrete rings are minimum 36” inside diameter, then the DCVA for irrigation must be installed outside of the meter box and plumbed into a box of the appropriate size to allow for testing and repair as per the City of Spokane Water Department Municipal Codes. All installations must meet the requirements of the City of Spokane Water Department. Where premises isolation is required, thermal expansion could exist from a water heater or boiler. Thermal expansion may result in an unsafe buildup of pressure within the plumbing system. Please follow the local rules, regulations, and the Uniform Plumbing Code to protect from thermal expansion.

**Retro Fit:**
Single Check replacement in vaults, shall be inspected by the Cross Connection Control Inspector before removal of old assembly and again after the new assembly has been installed and tested.

5. **NEW TAPS AND RETAPS:**

**In ALL cases the property owner is responsible for service location and depth.**

In all cases where a new water service is to be installed, a stake marked "WATER" must be placed at the property line and at the end of the copper if it extends through a utility easement, by the contractor, builder, or owner showing where service is to enter property, otherwise tap will not be made.

Only City Water Personnel will tap or make connections to the City Water mains. Size of tap shall be maintained to the water meter. Taps on new mains will not be made until bacteriological
tests are taken and the sample has been approved by County Health Department. All water services must be 5 feet deep from finished grade. (A depth of 5 feet shall be maintained through any 208 or swale system.)

6. **WATER SERVICE PIPE:**

All services up to and including 1 ½" must be seamless, soft-annealed, type "K" copper; with flared fittings or approved compression fittings or may be HDPE (200 psi CTS SDR 9 out of the public right-of-way and only downstream of the water meter. 2" to 3" must be HDPE (200 psi, CTS, SDR 9), or copper, 4" and larger shall be ductile iron. Fittings must be used when a change in direction of pipe is necessary. **All pipes shall be bedded with a minimum of 6" of sand below and 12” above the pipe.** All HDPE shall have stainless steel stiffeners and copper compression fittings. A 12 gauge tracer wire shall be installed on the HDPE and affixed to the pipe every 10’. Water services in the same trench shall have a horizontal separation of 2 feet.

Galvanized services that are 4” or smaller cannot be reused if the service has been off for one year, and the building is gone.
All water services viable or not that will not be reused shall be disconnected at the water main. The physical disconnection will be done by Water Department personnel at no charge, all excavation and restoration will be at the owner’s expense prior to the Certificate of Occupancy.

The installation of all curb and valve boxes are the responsibility of the property owner or contractor. They are to be installed flush with finished grade or paving, made of iron, and marked WATER on the lid. Boxes must line up with the curb stop or valve centered within the box allowing full operation of the valve.

7. **WATER AND SEWER SEPARATION:**

The sewer must be a minimum of 18” deeper and a minimum of 5' horizontally from the center line of ANY water service.

When sewer elevation is higher than the water service, there must be a separate water trench with 6 feet of undisturbed earth between water and sewer. All water service installations shall be at least 10 feet from any cesspool, catch basin, septic tank.

8. **OTHER UTILITIES:**

*All other utilities (telephone, cable TV, electric, gas, etc.) shall have a minimum of 5 foot horizontal separation from the water line.*

9. **WATER SERVICE ENTERING BUILDING:**

Where a water service pipe enters a building a depth of 5 feet shall be maintained. Where there is no basement i.e. crawl space or slab floor, the water service pipe, including fire lines will
maintain a 5 foot bury and extend 2 feet inside the footing before rising to the point of use or meter. No joints will be allowed under the floor, or within 5 feet of the outer wall. All service installations running parallel to buildings shall be at least 10 feet from the outer foundation walls.

10. METER LOCATION:

Residential and Commercial meters shall be located in an approved meter box or vault on property within 3’ of the closest property line. Installation of meters in a building shall be reviewed on a case by case basis and approved by the Director of the Spokane Water Department. When meters are installed in the building they must be within 20’ of the property line. All meters within a building must be installed in a room with a concrete floor and an approved floor drain. The installation must also include shutoff valves on both the inlet and outlet sides of the meter. Meters shall not be installed under stairs, in closets, crawl areas, garages, or unheated areas. There shall be not more than 18” of exposed pipe before the meter. All 3/4” or 1” services where water pressure is 80 psi or higher, shall have an approved pressure reducer installed before the meter when the meter is located within the structure. On services 1 ½” and larger, the pressure regulator shall be after the meter. Roughed in meter makeup shall be / 16.5” length for 1” / 14” length for ¾” / 12.5 “ length for 5/8”

11. LARGE WATER SERVICES (3" AND LARGER):

All meters 3” or larger shall be installed at the property line, in a vault built to Water Department Specifications, or can be installed in the building when less than 20 feet from property line to meter. For maintenance, all large meters must be accessible and have a minimum 12” clearance from any wall or floor. Water Department personnel and owners’ representatives will visit the site prior to the estimate for a complete determination of requirements.

12. WATER SERVICE REPAIR AND REPLACEMENT:

The repair of service leaks on private property is the responsibility of the property owner. Any repair or replacement of existing services shall follow all current rules and regulations and be inspected before covering. No service relays shall be pulled unless a minimum depth of 4 ½' can be maintained with a minimum of 5' sewer separation. Where a new building, or an addition to existing building, is erected over an existing service, the water service shall be either sleeved or offset by relaying the service a minimum of 10' from outer foundation wall.

The property owner is responsible for any water service located near or behind a manmade obstruction such as a retaining wall and must maintain their service at their own expense per Spokane Municipal Code 13.04.0806. This applies to obstructions located within the public right of way.
13. **RECORDED EASEMENTS REQUIRED:**

Easements shall be considered on a case by case basis, granted by the Director of the Spokane Water Department. When water services cross property other than property being serviced, the water meter shall be installed in a water department approved meter box. This box must be installed no more than 3’ inside the property line and an easement number must be filed with the Taps and Meter Division at City Hall.

14. **METER BOX:**

Meter boxes and vaults, for single meters up to 1” in size, when installed by the property owner, shall meet City of Spokane Water Department traffic rating standards, shall be placed on property not more than 3’ inside the closest property line, and built to Water Department specifications. All meter boxes and lids shall be maintained by the property owner.

Single meters 1.5” or 2” in size require a meter box with a minimum dimension of 36” inside 42” outside, made of concrete, and have a 24” cast iron ring and cover.

If there will be two meters 2” in size or smaller, a concrete meter box with a 48” minimum inside diameter with a standard 24” cast iron ring and cover will be required.

For meters larger in size than 2” or if there will be more than two meters, please contact our inspectors for appropriate vault dimensions. All meter boxes and vaults must meet H20 traffic load rating if in an area where traffic loads are expected.

Any meter box located within a proposed or established vehicle pathway must be traffic rated. Plastic or PVC meter boxes are not considered traffic rated and must be installed at least 1’ off any paved driveway.

15. **REMOTE READOUT CONDUIT:**

All commercial buildings and residential homes with a vault or concrete meter box (including duplex and triplex dwellings) are required to install an approved ½ inch PVC electrical grade conduit and must be installed from the water meter, to an accessible location on the outside of the building, approximately 3’ above finished grade. If the length of the conduit exceeds 200’, a pull string shall be provided. All directional changes will be made with sweeps, 90 degree elbows will not be allowed. All commercial buildings which are remodeled, reconstructed, or additions added on will be required to install conduit.

**REMOTE READER CABLE INSTALLATION POLICY**

The City of Spokane Water Department will require a minimum three wire, 22 gauge, color coded cable to be installed by the builder during the construction of all residential and commercial buildings for remote water meter reading purposes.
The cable shall begin at the water meter location and terminate on the street side of the building or on either side of the building within two feet of the street side of the building. The cable shall be in an accessible location approximately 36 inches above finished grade and with approximately 4' of excess cable left on each end.

16. **CONTRACTOR'S GUARANTEE:**

Work being done by private contractors, pertaining to quality of materials and installation procedures, shall be guaranteed for two (2) years from time of installation.

17. **OPERATION OF CURB STOPS**

If water is turned on or found on without proper inspection by the Water Division, the following City Ordinance applies:

**CITY ORDINANCE CHAPTER 13.04 WATER**

13.04.200 PENALTY. Any person violating any of the provisions of this chapter, or the rules and regulations of the Water Division, shall be deemed guilty of a misdemeanor and, upon conviction thereof, shall be punished by a fine in any sum not exceeding $300.00, or by imprisonment in the City Jail for not more than ninety days, or by both fine and imprisonment. Each day of a continuing violation shall constitute a new and separate violation unless otherwise specified. (Source, Section 40, C2452)

If Tap and Meter applications have been completed, water may be turned on for construction by calling 625-6000. Plumbers must abide by the following City Ordinance:

**City Ordinance Chapter 13.04 WATER 13.04.130 Sub-Section D**

The Director of Public Utilities may also permit qualified plumbers, licensed and bonded in accordance with state laws, to open and shut the street cock in order to make the necessary repairs or to test their work, and in every such case such persons shall leave the stop cock as they found it. They shall be responsible for any damage, losses or liabilities of the City or third parties arising from their acts, errors or omissions. (Source, Section 35, part C-2452; Cross ref., Section 13.04.0806 - 13.04.0812)

**SPECIFICATIONS FOR UNDERGROUND INSTALLATION OF LARGE DOMESTIC WATER SERVICES, MAINS, AND FIRELINES**

*(Shall Conform to A.P.W.A. with Spokane Supplemental Standards)*

1. All material installed in the City of Spokane, including fire hydrants and valves, must conform to City of Spokane Specifications. Pipe and Fittings shall be approved ductile iron. All fire hydrants must be individually valved. When in Fire Districts outside of City of Spokane
jurisdiction, installation and materials will conform to City of Spokane Rules and Regulations, however, the type of fire hydrants, direction of operation, size and style of operating nut and port caps, will be determined by local Fire Department Jurisdiction.

2. Pipe shall be laid at a minimum depth of 5 ½ feet to invert from finished grade. Pipe depth shall also be maintained through 208 swale systems.

3. Pipe and fittings shall be class 350 ductile and installed in accordance with manufactures instructions and in an approved manner. (A.W.W.A C600-64)(Example - Tyton slip joint connections require continuity wedges, and all taps will have Double strap saddles)

4. Pipes shall be clean inside when installed and open ends shall be protected when work is stopped, to prevent foreign material from entering pipe.

5. Pipe joints will be either mechanical joint or tyton slip joint; change in direction shall not exceed 75% of manufacturers' maximum deflection standards.

6. All tees, plugs, caps and bends on pipe installed underground shall be mechanically restrained. Mega lugs and field lock gaskets or other restraint systems approved by the Director of the City of Spokane Water Department, shall be used. Thrust blocking is not acceptable.

7. All underground fire lines, or fire suppression systems that are separated or protected from the potable water system requires a State Level III or “U” licensed contractor for installation.

8. All hydrants shall be properly restrained, from the main to the hydrant (mega lugs or field lock gaskets).

9. All water mains and appurtenances 4” and larger shall be tested in sections of convenient length under a hydrostatic pressure equal to 1.5 times that under which they will operate or in no case shall the test pressure be less than 175 psi. Firelines will be tested at 200 psi or 1.5 times the operation pressure, whichever is greater. All pumps, gauges, plugs, saddles, corporation stops, miscellaneous hose and piping and measuring equipment necessary for performing the test shall be furnished and operated by the contractor. Chlorination shall only be done by city forces at the expense of the developer and all arrangements shall be made through the City water service inspectors.

10. Earth shall be well tamped under and around pipes to prevent settling or lateral movement. Care shall be taken to prevent rocks, etc. from damaging pipe while backfilling. Frozen earth and/or asphalt shall not be used for backfill material. Backfilling will be done according to APWA specifications.

11. If the property line is in a 208 swale area the meter vault box may have to be relocated farther on property in a utility easement.

12. All approved main extension installations will be required to extend 10’ beyond the property line unless otherwise required by the water department.
IF THERE ARE ANY QUESTIONS PLEASE CALL (509)625-7800

MORE INFORMATION CAN BE FOUND AT THE FOLLOWING WEBSITES

City of Spokane
https://my.spokanecity.org/

City of Spokane Business and Development
https://my.spokanecity.org/business/

The Municipal Code Water Section can be found at:
http://www.spokanecity.org/smc/?Chapter=13.04

Standard Plans can be found at:
https://my.spokanecity.org/business/bid-and-design/standard-plans/

Design Standards can be found at:
https://my.spokanecity.org/business/bid-and-design/design-standards/

WSDOT Standards and Specifications can be found at:
http://www.wsdot.wa.gov/Publications/Manuals/M41-10.htm

Washington State Department of Labor and Industries
http://www.lni.wa.gov/SAFETY/TOPICS/ATOZ/ABOUT/DEFAULT.ASP

Washington State Safety Standards for Construction Work

Revised 6/2016