

LCWSA

LYCOMING COUNTY WATER & SEWER AUTHORITY

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CONSUMER SERVICE CODE

DOMESTIC WATER AND FIRE SERVICE

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WATER DETAILS (W):

RESIDENTAIL/COMMECIAL WATER SERVICE CONNECTION DETAIL	LCWSA_W_01
5/8" x 3/4" DOMESTIC WATER METER SERVICE DETAIL	LCWSA_W_02
SINGLE DOMESTIC WATER METER SERVICE DETAIL	LCWSA_W_03
DUAL DOMESTIC WATER METER SERVICE DETAIL	LCWSA_W_04
FIRE AND DUAL DOMESTIC WATER METER SERVICE DETAIL	LCWSA_W_05
WATER METER PIT DETAIL	LCWSA_W_06
4' x 6' WATER METER VAULT DETAIL	LCWSA_W_07
4' x 8' WATER METER VAULT DETAIL	LCWSA_W_08
6' x 8' WATER METER VAULT DETAIL	LCWSA_W_09
AIR RELEASE DETAIL (WATER)	LCWSA_W_10
FIRE HYDRANT DETAIL	LCWSA_W_11
WATER LINE TERMINATION & BLOWOFF DETAIL	LCWSA_W_12

STANDARD DETAILS (SD):

TRENCHING & BEDDING DETAIL	LCWSA_SD_01
VALVE & VALVE BOX DETAIL	LCWSA_SD_02
CONCRETE THRUST BLOCKS DETAIL	LCWSA_SD_03
RESTAINED PIPE LENGTH SCHEDULE	LCWSA_SD_04
WET TAPPING DETAIL	LCWSA_SD_05
HIGHWAY/STREAM CROSSING DETAIL	LCWSA_SD_06

PART 1 INSTALLATION REQUIREMENTS AND PROCEDURES

1.01 Tapping Fees, Liability for Damages and Service Line cost:

- A. Determined from LCWSA current Schedule of Rates
- B. Tapping Fee Payment due before meter is set and service is activated
- C. The piping and fixtures on the property of the owner/customer are assumed to be in satisfactory condition at the time service facilities are connected and water furnished; and the Authority, therefore, will not be liable in any case for any accidents, breaks, or leakage that are in any way due to the connection with the supply of water, failure to supply the same, or for the freezing of piping and fixtures of the customer, or for any damage to the property which may result from the usage or non-usage of water supplied to the premises.
- D. Cost to install the service line connection to water main, service lines to Authority's curb stop and all customer service line connections from Authority's curb stop into the structure, meter pit or vault, shall be at the expense of the owner/customer.
- E. Owner/customer shall indemnify and save harmless the Authority from all losses or damage that may be occasioned, directly or indirectly, as a result of construction of a service line connection.
- F. The Owner/customer, while excavating, furnish, place and maintain shoring, bracing and sheeting in compliance with the OSHA regulations. The open trench shall be barricaded and covered at night. Lights shall be placed at night to warn the public of danger.
- G. Streets, sidewalks and other public property disturbed in the course of installation of a service line connection shall be restored at the cost and expense of owner/customer of the improved property being connected in a manner satisfactory to the **Owner of the public property or utility.**
- H. Owner/Customer is required to obtain any required municipal permits for street cuts, excavations, building/zoning, land development etc. associated with installation of new service line.
- I. Owner /Customer is required to obtain a HOP from Penn Dot for any work within a Penn Dot R/W. For the installation of lines that will be part of the public sewer system, the HOP for that portion of the work shall be in the name of LCWSA.
- J. Consumer Service Code will adhere to Lycoming County Water and Sewer Authority Rules and Regulations Governing Water Services in Lycoming County, PA dated February 2, 2000.

1.02 Service Line Disconnection:

- A. Temporary Disconnect where service will be reinstated at later date.
 1. Service will be terminated at curb stop
 2. Curb stop will be shut by Authority
 3. 1 foot of service line will be left on the customer side of curb stop and crimped or capped
- B. Permanent service disconnection
 1. Service will terminated at corporation stop on water main.
 2. Corporation stop will be shut by Authority

1.03 Service Line Connection:

- A. Water Service Lines shall be connected to water main only at a service connection.
- B. A service line will be used to supply a single customer only, and no premises shall have more than one service connection except where impossible or impracticable to furnish an adequate water supply service therto through one service connection; in the event, the Authority may agree to the installation and use of more than one such connection.
- C. Service line connections will not be installed on property other than that of the premises to be furnished water.
- D. Dual meter sets are allowed on single service connection and service line.
- E. Fire Service Lines will not be activated until the Fire Service Application for Special Connection has been approved by LCWSA
- F. Refer to section 2.01, 2.02 for material specifications

1.04 Service Lines & Water Mains:

- A. All Service & Water Main lines have a minimum bury depth of 4'-6"
- B. Standard Domestic Service Line sizes ¾", 1", 1-1/4", 1-1/2" and 2"
- C. Water Main lines sizes to be 6" to 12"
- C. For Service Lines under 2"
 - 1. No joints shall be used from curb stop through the foundation wall to meter.
 - 2. No joints shall be used from curb stop to the meter pit or vault.
- D. For service Lines over 2"
 - 1. No joints shall be made a distance of less than five feet from the exterior wall of premise/vault.
- E. All pipes passing through foundation or bearing wall shall be provided with suitable sleeves and the annular space between the sleeve and the pipe made watertight.
- F. No service pipe shall be laid in the same trench with gas pipe, drain or sewer pipe, or any other facility or another public service company, not within three feet of any open excavation or vault.
- G. No soldered joints permitted on Inlet side of meter
- H. No Black Iron or Galvanized Pipe or Fittings permitted
- I. Authority service line (Corporation Stop to Curb Stop) shall be copper w/ no joints
- I. Require 6 pipe diameters of straight before and after meter to avoid turbulence.
- J. Fire Service Line to be sized by sprinkler system engineer
- K. Bedding and backfill per LCWSA Specifications
- L. Refer to section 2.03, 2.04, 2.05, 2.06 for material specifications
- M. Refer to section 3.01 for testing & inspection requirements
- N. Refer to LCWSA details for trenching, bedding & backfill requirements

1.05 Service Line Shut Off Valves:

- A. ¾" TO 2" service connections require corporation stop at water main
- B. 4" TO 12" service connections require live tap and valve at water main
- C. All service lines require curb stops to be located in public Right of Way (ROW) or LCWSA (ROW)

- D. Where a tapping valve is required for Fire Service, the Authority is responsible to R/W line.
- E. At LCWSA discretion, a valve may be required at Property/ROW line.
- F. Refer to section 2.07, 2.08, 2.09 for material specifications

1.06 Meter Locations:

- A. Inside Building Structure
 - 1. Locate meter set within (1') Foot of service line entry inside of foundation wall.
 - 2. Meter set vertical height requirements: (1') minimum and (4') maximum from finished floor level
- B. Water Meter Pit
 - 1. For Single 3/4" & 1" meter set only.
 - 2. Required on any service line with a distance greater than 95 feet between the curb stop valve and the first valve inside the foundation wall.
 - 3. Locate Meter Pit within 10' of curb stop valve.
 - 4. Meter pits shall be accessible to and subject to the Authority's control.
 - 5. Refer to section 2.12 for material specifications
 - 6. Refer to LCWSA details for Water Meter Pit
- C. Water Meter Vault (4'x6'), (4'x8') & (6'x8')
 - 1. 4' x 6' Required for Signal meter set
 - 2. 4' x 8' Required for Dual meter sets
 - 3. 4' x 8' Required for Fire Service
 - 4. 6' x 8' Required for Domestic and Fire Service Combination
 - 5. Required on any service line with a distance greater than 95 feet between the curb stop valve and the first valve inside the foundation wall.
 - 6. Locate Meter Pit/Vault within 10' of curb stop valve
 - 7. Meter Vaults shall be accessible to and subject to the Authority's control
 - 8. Requires drain to daylight / rock sump or sump w/ sump pump
 - 9. Sump Pump needs sized accordingly.
 - 10. Refer to section 2.13 for material specifications
 - 11. Refer to LCWSA details for Water Meter Vaults

1.07 Meters:

- A. Meter size will be determined by LCWSA
- B. Meters will be furnished and installed by LCWSA
- C. Refer to section 2.10 for material specifications
- D. Refer to LCWSA details for meter plumbing requirements

1.08 Meter Isolation Valves:

- A. Residential/Commercial Service
 - 1. Ball style isolation valves are required before and after meters sets
 - 2. Where two or more domestic meters are used with one service line
 - a. Install a 3 pound in-line check valve between the secondary meter and outlet side valve.
 - b. Lock Stop Ball Valves are required for the meter inlet valve

- B. Fire Service (Detector check meter line)
 - 1. Install an approved backflow preventer between detector meter and outlet side valve.
- C. Refer to section 2.11 for material specifications
- D. Refer to LCWSA details for valve plumbing requirements
- E. To be furnished and installed by Contractor

1.09 Pressure Reducing Valves (PRV):

- A. Required where static line pressure exceeds 75 PSI
- B. Installed prior to water meter(s) on all domestic lines
- C. Installed prior to water meter on fire service detector check meter lines.
- D. Ball style Isolation valve required prior to PRV
- E. Refer to section 2.14 for material specifications
- F. To be furnished and installed by Contractor

1.10 Backflow Prevention Device:

- A. Installed after meters
- B. When working with meter vaults, RPZ to be located in the building. The owner is required to give the Authority a letter stating they will never make a connection between the Backflow Preventer and the water meter without the Authority's permission.
- C. Backflow Preventer must be tested upon initial installation, then annually every year after, by a certified BFP tester. Proof of tester's certification will be required. Test results must be forwarded to LCWSA Compliance Department.
- D. Residential Domestic Water Service requires
 - 1. Dual Check Valve Type
 - 2. Furnished by LCWSA
 - 3. Installed by Contractor
- E. Commercial Domestic Water Service requires either
 - 1. Testable Double Check Assembly Type (DCVA)
 - 2. Reduced Pressure Zone Type (RPZ)
 - 3. Final Type will be determined by LCWSA staff
 - 4. To be furnished and installed by Contractor
- F. Fire Service requires
 - 1. Double Check Detector Assembly (DCDA)
 - 2. To be Furnished and installed by Contractor
- G. Refer to section 2.15 for material specifications

1.11 Thermal Expansion Tank:

- A. Required by LCWSA
- B. Size and style to be determined by certified plumber/manufacture.
- C. Refer to LCWSA details for expansion tank plumbing requirements

1.12 Private Fire Hydrants:

- A. Fire Hydrants may be installed on Fire Service Lines 6” or greater
- B. Fire Hydrants will be privately owned and maintained
- C. Owner to contact local Fire Departments to determine thread type and service area
- D. Refer to section 2.16 for material specifications recommendation

1.13 Air/Vacuum Release Valves

- A. Required at high points in the system or at points selected by engineer.
- B. Installed in 4’ Diameter Precast manhole with 12” minimum opening in floor for drainage.
- C. Requires saddle connection and isolation valve
- D. Refer to section 2.17 for material specifications
- E. Refer to LCWSA details for Plumbing requirements

PART 2 MATERAIL SPECIFICATION

2.01 Service Saddle

- A. Saddle Thread to be AWWA/ CC Thread
- B. Ductile Iron (DI) and Transite/Asbestos (AC) Water Mains
 - 1. Romac Style 202NC Nylon Coated w/ Stainless Steel Straps
- C. HDPE Water Main size 2” CTS
 - 1. Ford Brass Saddles Style S40/S41 Hinged
- D. HDPE Water Mains 2” IPT to 12” DIP
 - 1. Romac Style 202 N-H Nylon Coated w/ double Stainless Steel Straps
- E. PVC SDR-21 Water Mains
 - 1. (1-1/2” – 8”) Ford Brass Saddles Style S70 Hinged
 - 2. (10” & 12”) Ford Brass Saddles Style S70 Bolted
- F. PVC C900 “Blue Brute” DR 18, DR 14 Water Mains
 - 1. (2” to 8”) Ford Brass Saddles Style S90 Hinged
 - 2. (10”& 12”) Ford Brass Saddles Style S90 Bolted

2.02 Tapping Sleeve (AWWAC223)

- A. DI/CI/PVC/AC Water Mains
 - 1. Romac SST III Stainless Steel Tapping Sleeve
- B. Ductile Iron Flange
- C. 4” to 12” Branch Size

2.03 Service Lines & Water Mains

- A. Service Lines (3/4” to 2”)
 - 1. Copper, Type K, ASTM B88
 - a. Required from Corporation to Curb Stop (Authority Service Line Connection)
 - b. Required from Curb stop to exit of meter pit/vault
 - c. No Joints allowed along copper service pipe
 - 2. PE pipe SDR-9 CTS, AWWA C-901, 200 PSI
 - a. Allowed after meter pit/vault.
 - b. Allowed after curb stop if meter pit or vault is not required.
 - c. No joints allowed along PE service pipe
 - 3. Brass Threaded Nipples (Size as required)
- B. Service Lines & Water Mains (4” to 12”)
 - 1. Ductile Iron Class 52, 350 PSI Double Cement Lined, AWWA C151
 - a. Field Lok 350 Gaskets required per the Restrained Pipe Length Schedule detail
 - 2. HDPE DR-9, 250 PSI IPS (Directional Drill Only)
- C. Detectable Warning Tape
 - 1. Omega 2” Wide min.
 - 2. Color – Blue
- D. Conductive Tracer Wire (HDPE Lines only)
 - 1. (12) gauge minimum solid copper
 - 2. Tracer wire access point (monitoring station) to be no more than 500 feet
 - 3. Tracer wire to be continuous, splices allowed only with prior approval
 - 4. Continuity test on all tracer wire shall be performed in the presence of LCWSA Inspector

2.04 Service Line Bedding and Backfill Materials

- A. Pipe Bedding & Initial Backfill Materials (Penn Dot Pub 408 Section 703.2)
 - 1. Type A Concrete Sand
 - 2. AASHTO # 8 Coarse Aggregates Crushed Limestone
 - 3. AASHTO # 8 Coarse Aggregates Gravel
 - 4. Suitable Select Soils
- B. Backfill Materials (Penn Dot Pub 408 Section 703.2,3; 220)
 - 1. AASHTO # 2A Coarse Aggregate Subbase
 - 2. 2 RC
 - 3. Suitable Select Soils
 - 4. Type A or B Flowable Backfill
- C. Unsuitable Bearing Replacement Material
 - 1. AASHTO # 1 or # 3 Coarse Aggregates
- D. Bedding for Copper service lines - Type A concrete sand, # 8 Gravel or Suitable soil only
- E. Bedding for Ductile Iron Service lines - # 8 Gravel or Suitable Select Soils only
- F. Authority must approve suitable select soils prior to using as pipe bedding.

2.05 Fittings & Accessories

- A. Service Lines (3/4" to 2")
 - 1. Ford, Brass Quick Joint or Flare Joints
 - 2. Stainless Steel Insert Stiffeners required for PE pipe
- B. Service Lines (4 to 12") (AWWA C153)
 - 1. Tyler/Union, DI, MJ, Cement Lined
- C. Megalug Mechanical Joint Restraint
 - 1. EBRAA, Series 1100 for DI Pipe (AWWA C153)
 - 2. EBRAA, Series 2000 PV "Red" for PVC Pipe (AWWA C900)
 - 3. Infact, Foster Adapters, (AWWA, C153)

2.06 Couplings

- A. Couplings (3/4" to 2")
 - 1. Ford Quick Joint or Flared Ends, Brass
 - 2. Stainless Steel Insert Stiffeners required for PE pipe
- B. Coupling (4" to 12") (AWWA C153)
 - 1. Tyler/Union DI, MJ Solid Sleeve w/ Mega Lug Restraint
 - 2. Romac XR501 Extended Range Coupling

2.07 Corporations and Curb Stops (2" & under)

- A. Corporation Stops (AWWA C800)
 - 1. Ford FB1000 Ball Corp AWWA/CC Thread x Quick Joint or Flared End
 - 2. Stainless Steel Insert Stiffeners required for PE pipe
- B. Curb Stops (AWWA C800)
 - 1. Ford B44-333 Ball Valve Curb
 - 2. Quick Joint or Flared Ends
 - 3. Stainless Steel Insert Stiffeners required for PE pipe

2.08 Valves (3" to 12")

- A. Inline Gate Valve (AWWA C515, 250 PSI)
 - 1. AFC DI, MJ Joints, Series 2500 Resilient Wedge Gate Valve
 - 2. Valves Sizes 3" to 12"
 - 2. Non Rising Stem (NRS)
 - 4. 2" Square operating nut
 - 5. CCW (Left) Open Direction
- B. Tapping Valve (AWWA C515, 250 PSI)
 - 1. AFC DI Series 2500 Tapping Valve, Resilient Seat
 - 2. Non Rising Stem (NRS)
 - 3. Flange x Mechanical Joint Ends
 - 4. 2" Square operating nut
 - 5. CCW (Left) Open Direction

2.09 Curb and Valve Boxes

- A. Curb Box (for 3/4" to 1" curb stops)
 - 1. Tyler/Union 6500 Series, Screw Type, Depth as required
 - 2. Lid to be marked "WATER"
- B. Curb Box (for 1-1/4" to 2" curb stops)
 - 1. Tyler/Union CB-7 Enlarged curb box base (Non Traffic Areas only)
 - 2. Bibby – Laperle 4-1/4" Roadway box, Screw Type, Depth as required (Traffic Areas)
 - 3. Lid to be Marked "WATER"
- C. Valve Box (4" to 12")
 - 1. Tyler/Union 6850 Series, CI Two Piece, Screw Type, Depth as required
 - 2. Tyler /Union 6860 Series, CI Three-Piece, Screw Type Depth as required
 - 3. Lid to be Marked "WATER"

2.10 Meters

- A. Meter Manufactures
 - 1. Hersey 400/500 Series IIS
 - 2. Sensus SR II, IPerl

2.11 Meter Isolation Valves & Accessories

- A. Signal/Dual meter setting Isolation Valves
 - 1. Apollo Full Port Ball Valve 77CLF Series, Brass
- B. Dual meter Settings Lock Stops & Check Valve
 - 1. Lock Stops (AWWA C800)
 - a. 3/4" – 1-1/4" Ford BF13-xxxW Style (Pact Jnt/Thread x Meter Swivel Nut)
 - b. 1-1/2" – 2" Ford BF13-xxxW Style (FIPT x Meter Flange)
 - 2. 3 lb. Check Valve
 - a. Watts Series LF600 Spring Loaded Check Valve
- C. Single Meter Setter for pits
 - 1. Ford 70 Series Coppersetter
 - 2. For 5/8" x 3/4" Meter Setter use VBHC72-24W-44-33-NL
 - 3. For larger size contact LCWSA for setter code

- D. Adjustable Meter Couplings
 - 1. 3/4" – 1/14" Pact joint/Thread/Flare x Meter Swivel Nut
 - 2. 1-1/2" – 2" FIPT x Meter Flange

2.12 Meter Pits & Covers

- A. Meter Pits
 - 1. Carson Plastics Heavywall 0024-B 48" Depth
- B. Meter Pit Covers
 - 1. Ford MC-24 w/ Locking Lid
 - 2. Ford MB – Inner Lid

2.13 Water Meter Vaults

- A. Design Ratings (Per location of Vault)
 - 1. Pedestrian Loading
 - 2. H2O Traffic Loading
- B. Precast Floor, Walls and Top
 - 1. 5000 PSI Concrete @ 28 Days
 - 2. Reinforcing per design loading
- C. Aluminum Hatch
 - 1. 36" x 36" Size
 - 2. Mill Finish
 - 3. Slam-Lock w/ Removable key
 - 4. Pad-Lock Bar optional
 - 5. Hold Open Arm
- D. Pipe Penetrations and Seals
 - 1. Core Drill
 - 2. HDPE Penetration Sleeves
 - 3. Link-seal Modular Seal
- E. Stair Access
 - 1. Aluminum Ladder w/ Ladder-Up Safety Post
 - 2. Copolymer polypropylene plastic manhole steps at 12" spacing.

2.14 Pressure Reducing Valves (PRV)

- A. Watts Series LF25AUB-Z3
 - 1. Sizes 1/2" to 2"

2.15 Backflow Prevention Device

- A. Residential Service Lines (3/4" to 2")
 - 1. Watts Series LF7R/LF07S Dual Check Valve Type (Furnished by LCWSA)
- B. Commercial Service Lines (Either) Contact LCWSA for required Type
 - 1. Watts Series LF007QT, Testable Double Check Valve Assemblies (DCVA)
 - a. AWWA C-510
 - 2. Watts Series LF909QT-HW, Testable Reduced Pressure Zone Assemblies (RPZ)
 - a. AWWA C-511-92
 - b. Requires, Series 909 AG Air Gap with drain line size for meter

- C. Fire Service Line (3" to 10")
 - 1. Watts Series 709DCDAOSY Double Check Detector Assemblies
 - a. AWWA C510
 - b. OSY resilient seated gate valves
 - c. Auxiliary line shall consist of insulation valves, an approved backflow preventer and water meter.

2.16 Private Fire Hydrant

- A. 5 ¼" AVK High Pressure, 250 PSI, Nostalgic, Dry Barrel (AWWA C502)
- B. 6" MJ Base Elbow/Inlet Configuration
- C. Model 2780 3- way: 1 Pumper, 2 Hose Outlet connections
- D. Opening Direction (Left)
- E. 5'-0" Bury Depth
- F. Fairfield Township
 - 1. Thread - Pittsburgh/Williamsport
 - 2. Storz Connection on Pumper/Steamer (Please Verify with Fire Dept.)
 - 3. Color – Yellow
- G. Muncy Creek / Muncy Creek Township
 - 1. Thread – National
 - 2. Storz Connection on Pumper/Steamer (Please Verify with Fire Dept.)
 - 3. Color – Red
- H. Limestone Township
 - 1. Thread – National
 - 2. Color - Red

2.17 Air Release/Vacuum Valves & Accessories

- A. Crispin UL Series, Combination Air/Vacuum Valve for Potable Water
 - 1. AWWA C-512
 - 2. Cast Iron Body
 - 3. Stainless Steel interior metal parts
 - 4. Saddle style per section 2.01, Outlet Thread: FIPT
 - 5. Brass Isolation Valve per section 2.11
 - 6. Brass Nipples and Fittings
 - 7. Contact LCWSA for line pressure
 - 8. Sizing per line size requirements

PART 3 INSPECTION AND TESTING REQUIREMENTS

3.01 Inspection Requirements

- A. LCWSA inspector shall be provided a 24-hour notice prior to the inspection.
- B. Whenever conditions warrant, no water service line or part thereof shall be covered until it has been inspected and accepted.
- C. The levy of an additional fee for re-inspection will be assessed by LCWSA

3.02 Testing Requirements

- A. Testing and acceptance of water service lines shall be made in the presence of the LCWSA inspector.
- B. The equipment and materials for testing shall be furnished by the owner or Plumber/Contractor.
- C. Water for hydrostatic testing will be supplied by LCWSA at no charge.
- D. Testing of water service lines will be performed by the use of Hydrostatic Pressure Testing Equipment.
- E. Domestic water service $\frac{3}{4}$ " to 2" must be hydrostatically pressure tested between the curb stop and the meter. Hydrostatically pressure for a minimum of 10 minutes at 1.5 times the system working pressure. Hydrostatic tests shall be a minimum of 100 psi and maximum of 200 psi with no allowable leakage loss
- F. Domestic water service line over 2" must be hydrostatically pressure tested between the curb stop and the meter for 2 hours at 1.5 times the system working pressure up to a maximum of 250 psi with no allowable leakage loss or per AWWA Standards for loss depending on length of service line.
- G. Fire Service Lines must be hydrostatically pressure tested between water main control valve and the fire system in the building for 2 hours at 250 PSI with no allowable leakage loss.