



City of Middletown
WATER & SEWER DEPARTMENT
82 Berlin Street
Middletown, CT 06457
Phone: (860) 638-3500

GENERAL REQUIREMENTS
WATER MAIN AND SERVICE INSTALLATION
MARCH 2024

WATER MAINS AND FIRE SERVICES

Water mains shall be cement lined ductile iron pipe with push on “Tyton” type joints and/or mechanical joints. Water mains shall be a minimum 8-inches in diameter and fire services with hydrants a minimum of 6-inches in diameter. All pipe sizes are subject to approval. Pipe shall be Class 52 and meet the AWWA C151 and ANSI A21.51 standards. Class 54 pipe with TR Flex type joints are required on bridges and railroad crossings. Stainless steel supports are required on all above grade bridge crossings.

The minimum cover for mains and services is 4-½ feet to the top of pipe. Provide detectable blue marking tape, six inches wide, located 24 inches above the water main or service. A hydrant and gate valve shall be installed at all dead ends. Insulated piping or rigid insulation may be required at drainage structures or as approved by the Chief Engineer.

The allowable joint deflection shall not exceed 80% of the manufacturer’s maximum allowable deflection. Couplings shall be mechanical joint (MJ) solid sleeves. The Smith Blair 442 cast coupling may be used to for non-standard cast iron pipe. The minimum coupling length is 12 inches.

WATER SERVICES

A separate service is required for each building or structure being served on a lot. The water service from the main to the curb stop shall be installed at a right angle to the main. Water service from the curb stop to the building shall run in a straight line from the curb stop to the building where possible. Curb stops shall be installed plumb and the cap shall be set level with the finished Grade. Set screws on extensions shall be tightened prior to backfilling. The use of threaded coupling or pipe is prohibited.

Combined domestic and fire services are not allowed.

GENERAL REQUIREMENTS WATER MAIN AND SERVICE INSTALLATION

Water services shall be installed prior to the construction of the binder course on all new roads.

Underground Services (1", 1-1/2" and 2") shall be Type "K" copper tubing with compression joints. No joints are allowed between the main and the curb stop. The minimum service size is 1-inch. Provide Smith Blair Model #317 double strap, stainless steel service saddle are required for services 1-1/2-inch and 2-inch services. Plastic tubing is not acceptable. All copper services shall be flushed. Disinfection of copper services is not required.

Services larger than 2-inches shall be ductile iron with a minimum diameter of 4-inches. All ductile iron services shall be flushed and disinfected per these specifications.

Interior Service entrance shall be Type "K" copper tubing with a flared joint connection to the main to the shutoff valve. The shut off valve shall have a full port opening located a maximum of 8" from the service entrance.

IRRIGATION SERVICES

Small irrigation systems may be tapped off of the domestic service. A separate meter for the irrigation system may be installed upon request and approval from the Department. A separate water bill will be issued for irrigation meters. Billing will include all fees associated with a typical domestic water service and an annual fee for inspection of the required backflow prevention device. Sewer charges will not be applied to irrigation meter bills. Interior irrigation meters are not intended to be seasonal. Fees shall apply if the meter is removed during the winter months.

A main shut off valve shall be installed before both the irrigation meter and the domestic meter. Each meter shall have valves on either side of the meter. A reduced pressure zone device (RPZ) Watts Series 009 or equal shall be installed after the irrigation meter assembly for backflow prevention. The irrigation plumbing shall not be interconnected in any way to the domestic plumbing either inside or outside the building. The Department has the right to turn off the water service if a cross connection exists to protect the health and safety of its customers.

Irrigation services requiring a services larger than 1-inch in diameter shall be installed on a separate water service and may require a hot box or metering chamber.

PRIVATE WELLS

Private wells shall be abandoned in accordance with the Regulations of CT State Agencies Sections 25-128-56 & 25-128-57 when connecting to the City's distribution system. No physical connection between the public drinking water system and the private well shall be permitted per the CT Public Health Code Section 19-13-B37. Private wells used for only irrigation may be allowed at the discretion of the City of Middletown Water Department provided the following conditions are met:

1. The water from the water supply well is only used for irrigation or other outside use and is

GENERAL REQUIREMENTS WATER MAIN AND SERVICE INSTALLATION

- not used for human consumption,
2. A reduced pressure device is installed to protect against a cross connection with the public water supply,
 3. No connection exists between the water supply well and the City's water distribution system, and
 4. The use of the water supply well will not affect the purity or adequacy of the supply or service to the City's customers.

METERS

Meters shall be located inside the building in an area protected from freezing and damage. The meter shall be in an accessible location approximately two feet above the finished floor and no more than 14-inches from the main shut off valve. No taps or drain valves shall be located upstream of the meter. The contractor shall provide a ½-inch conduit from the meter to the exterior of the building for the radio read wire. A meter bypass may be allowed for critical facilities as determined by the City of Middletown Water Department.

The Department may require exterior meter pits for multi-family, commercial or industrial properties or for services longer than 60 feet. Meter pits shall be installed a maximum of 5 feet from the curb stop. Meter pits shall be a minimum of 18-inches in diameter with an insulated/frost cover. Meter pits shall be Ti-Pit-3 by Ti Sales, Mueller Riser EZ-Setter or approved equal.

Meter pits for meters greater than 1-inch shall be submitted for approval.

VALVES

Resilient seat gate valves shall be used for ductile iron piping with diameters of 12-inches or less. Gate valves shall be Mueller, Clow, AVK, Kennedy, or approved equal. Butterfly valves shall be used for piping 16-inches in diameter and larger. Butterfly valves shall be Mueller, Pratt or approved equal. All buried valves shall open right. All interior valves shall open left.

The Valve Box Adaptor II by Adaptor, Inc. shall be used for all valve and gate boxes. The gate valve nut shall be 2 to 3.5 feet below finish grade. Provide Geneco 5VR-D gate valve nut extension as needed. Set screws shall be tightened prior to backfill. Valve boxes shall be installed plumb, centered over the operating nut and set flush with the finish grade. Only bottom sections may be stacked to raise the valve box. Riser rings and adjustable risers are not acceptable.

Valves are required at all water main intersections on all three legs of tees and all four legs of crosses. Hydrant legs and fire services only require a valve on the branch side of the tee. Valve spacing along the water main shall not exceed 800 feet for 8-inch diameter pipe and 1,200 feet for larger mains. Final valve layout shall be submitted for approval.

GENERAL REQUIREMENTS WATER MAIN AND SERVICE INSTALLATION

HYDRANTS

Hydrants shall be Mueller Super Centurion 4-½ inch Barrel with a 5 or 5-1/2 foot bury depth. Hydrants shall open left (CCW) with one 4 ½” National Standard Thread (NST) pumper nozzle and two 2-1/2” NST hose nozzles. Multiple extensions are not acceptable and extensions shall not exceed two feet in length. Hydrants and extension shall be plumb after backfilling and set to a depth so that the “Bury Line” matches finished grade. The traffic (break away) stem shall match finished grade and oriented correctly with “This End Up” towards the upper stem.

Place a minimum of six cubic feet of ¾ inch crushed stone for hydrant bleed off below the weep holes. Hydrants shall be factory painted John Deere Green on the bonnet and caps and John Deere Yellow for the remainder or as approved by the Chief Engineer. Low pressure hydrants as determined by the Chief Engineer, shall be painted all yellow. Private hydrants shall be factory painted red and may have a different barrel length.

Hydrant Branches shall be 6-inch diameter ductile iron pipe and be completely restrained. Anchor tees are acceptable. Hydrant spacing shall be approved by the City of Middletown Water Department and the Fire Marshall of the appropriate fire district. Generally, hydrant spacing shall not exceed 600 feet in low density areas and 300 feet in high density areas of the City. A minimum clearance of three feet shall be maintained around each hydrant. A clear path six feet wide shall be maintained from the hydrant to the street.

UTILITY SEPARATION

The minimum separation distance from sanitary sewer shall be 10 feet horizontal and 18 inches vertical. The water main or service shall be installed above the sanitary sewer wherever possible. The minimum separation distance from all other utilities shall be 5 feet horizontal and 18 inches vertical.

FITTINGS

All fittings shall be cement lined ductile iron with mechanical joints. The size and pressure rating shall be compatible with adjoining pipe.

RESTRAINTS

Bell restraint harnesses or EBAA Megalugs shall be installed at all fittings and dead ends. Joint restraints are to be installed on a minimum of two pipe joints either side of fittings (50 feet minimum each side). Thrust blocks (solid concrete blocks with oak wedges) are required at all bends, tees, dead ends and hydrants. Concrete thrust blocks shall be poured against the fitting and undisturbed earth using forms. Restraint calculations are required for fittings on water mains with pipe sizes greater than 8-inches in diameter.

Field Lok gaskets or approved equal may be used provided all joints are restrained.

GENERAL REQUIREMENTS WATER MAIN AND SERVICE INSTALLATION

PAVEMENT

Pavement removal and/or replacement shall be in accordance with the latest City of Middletown Department of Public Works standards.

TAPPING SLEEVES

Tapping sleeves shall be Total Piping Solutions Triple Tap, Smith Blair 665 or approved equal. Stainless steel hardware is required. Tapping sleeves shall have a mechanical joint on the outlet. The minimum allowable tap size is 6-inches.

The contractor shall follow the manufacturer’s installations instructions. Hydrostatic testing and tapping will be performed by the City of Middletown Water Department prior to performing the tap.

WATER MAIN ACCEPTANCE

The following general procedure is required for water main acceptance:

Initial Flushing: New water mains shall be flushed to remove all foreign material from the pipe. Flushing is not recommended if tablet or powder chlorine is used. In this case the main shall be filled at a rate of 1 ft/s or less.

Disinfection: The contractor may use liquid sodium hypochlorite or calcium hypochlorite in tablet or powder form to disinfect new water mains. All disinfection materials shall conform to ANSI/ AWWA B300. Calcium hypochlorite intended for pool disinfect is not allowed.

The main shall be chlorinated to an initial concentration of 25 ppm and held in the pipe for a period of at least 24 hours. A minimum residual chlorine concentration of 10 ppm is required after 24 hours.

| Pipe Diameter (in) | Calcium Hypochlorite | | | 100 % Chlorine (lbs) | 1% Chlorine Solution (gal) |
|-----------------------|----------------------|--------------|---------------------------|-------------------------|-------------------------------|
| | Granules (oz) | Granules (g) | 5g Tablets ^(a) | | |
| 4 | 1.7 | 48 | 1 | 0.013 | 0.16 |
| 6 | 3.8 | 108 | 1 | 0.030 | 0.36 |
| 8 | 6.7 | 190 | 2 | 0.054 | 0.65 |
| 10 | 10.5 | 298 | 3 | 0.085 | 1.02 |
| 12 | 15.1 | 428 | 4 | 0.120 | 1.44 |
| 16 | 26.8 | 571 | 6 | 0.217 | 2.60 |

(a) – per 18 ft length of pipe, 65% chlorine tablets

Final Flushing: The main shall be flushed after disinfection. Flushing shall continue until the background residual chlorine concentrations are detected at the discharge. The highly chlorinated water may be discharged to the sanitary sewer. If discharge to the sanitary sewer

GENERAL REQUIREMENTS WATER MAIN AND SERVICE INSTALLATION

is not possible, the water shall be de-chlorinated prior to discharge. The contractor shall meet all local, state and federal requirements for discharge.

Bacteriological Tests: Bacteriological tests shall be conducted in accordance with AWWA C 651 5.1.1.1 Option B. Water shall be held in the main after final flushing for a period of 16 hours without any water use. Two sets of samples shall then be taken 15-minutes apart while the sampling taps are running. Samples shall be collected a maximum of every 1,200 feet and at all branch locations. Both samples shall be tested for total coliform bacteria and HPC. One of the samples shall also include physical parameters including color, turbidity, odor and pH. Both sets of samples must pass before the main can be approved. Sample collection is scheduled on Wednesdays.

Pressure Test: All pressure tests shall be conducted in accordance with AWWA C600. A typical pressure test shall maintain a pressure of 200 psi for two hours. The pressure may not vary by more than 5+/- psi during the test. Make up water shall be added during the test to keep the pressure within range. The total volume of makeup water used over the test period shall not exceed the testing allowance as defined in AWWA C600. The maximum allowable length of main for each pressure test is 2,000 feet. The contractor is responsible for all pressure testing. A representative from the City of Middletown Water Department shall be on site to witness the test.

BACKFLOW PREVENTERS

If required, backflow prevention devices must be installed per State of Connecticut Regulations. Drawings showing location, type and manufacturer of all backflow preventers shall be submitted for review and approval.

HIGH/LOW SERVICE PRESSURE

A booster pump shall be installed if the anticipated water pressure at any fixture or appliance in the building has a static pressure of less than 40 psi. A bypass and air relief valve are required for all booster pumps. A pressure reducing valve (PRV) shall be installed after the water meter if the anticipated water pressure at any fixture or appliance exceeds 80 psi. The homeowner is responsible for the installation, operation and all maintenance associated with booster pumps and PRVs.

SERVICE ABANDONMENT

Water services shall be abandoned at the main. Services 2-inches in diameter and smaller shall be disconnected from the corporation cock on the main. The corporation shall be left in the closed position and a brass end cap installed. If an end cap cannot be installed, the service shall be cut and crimped as close to the corporation as possible. Services larger than 2-inches shall be abandoned by removing the tee and valve, or the tapping sleeve and valve from the main and replacing them with ductile iron pipe and solid sleeves where possible. When a shutdown is not feasible, the branch valve shall be closed and a cap installed on the branch. The cap shall be restrained and thrust

GENERAL REQUIREMENTS WATER MAIN AND SERVICE INSTALLATION

blocked. If abandonment at the main is not feasible, a proposed alternate shall be submitted in writing for review and approval.

PERMITS

A valid Connecticut Plumber's license (P-1 or P-7) is required for all water installation and repair permits. The license holder shall conduct or oversee the work and is required to sign the permit. The license holder can provide a signed letter giving his designee permission to sign a permit in their absence. A copy of the plumber's license and the signer's driver's license is required. All fees and required documents shall be submitted prior to the approval of any permit.

NOTIFICATIONS

Contractors are required to notify the department at least **48 hours** prior to commencement of work. Any water main work requiring a shutdown requires a minimum **10 day written notification to all customers impacted by the shutdown**. The contractor is responsible for notifying customers and the notice shall be approved by the City of Middletown Water Department.

INSPECTIONS

The contractor shall contact the inspector to schedule the inspection of work. Inspectors are typically available between 7:30 am and 3:30 pm Monday through Friday not including holidays. There may be an overtime charge for any inspections outside of the normal working hours listed above.

The contractor **shall not** backfill the service installation or repair until the work is approved by the inspector. The contractor will be responsible for exposing any service that was backfilled prior to inspection.

SUB-DIVISION AND LARGE PROJECTS

The following items are required for all large projects and sub-divisions:

Preconstruction Meeting: Prior to the start of non-residential construction, the contractor, engineer, and owner shall meet with representatives from the City of Middletown Water Department to ensure compliance with these requirements.

Submittals: Working drawings, shop drawings, material certifications and product data shall be submitted for all materials to be used in the construction of water facilities. This information shall be submitted for review and approval two weeks prior to construction.

Minimum, average and maximum water demands shall be provided for all domestic water services. Irrigation and fire service demands shall be provided if applicable. Demands shall be calculated using AWWA M22 or other approved method for estimating demands.

A site plan stamped by a registered Professional Engineer in the State of Connecticut is

**GENERAL REQUIREMENTS
WATER MAIN AND SERVICE INSTALLATION**

required for a proposed water service connection for residential developments and all non-residential properties. The site plan shall be submitted along with the required water permit application for review and approval.

Punch Lists: The Department will generate a punch list of items that are not complete or don't meet Department standard. This list shall be addressed by the contractor prior to acceptance. An additional fee may be charged if more than two inspections are required.

As Built Drawings: Upon completion, an as-built drawing shall be furnished to the Department for review and approval. The as-built shall be 12-inches x 30-inches and submitted on both mylar prints and in electronic format (PDF and CAD).

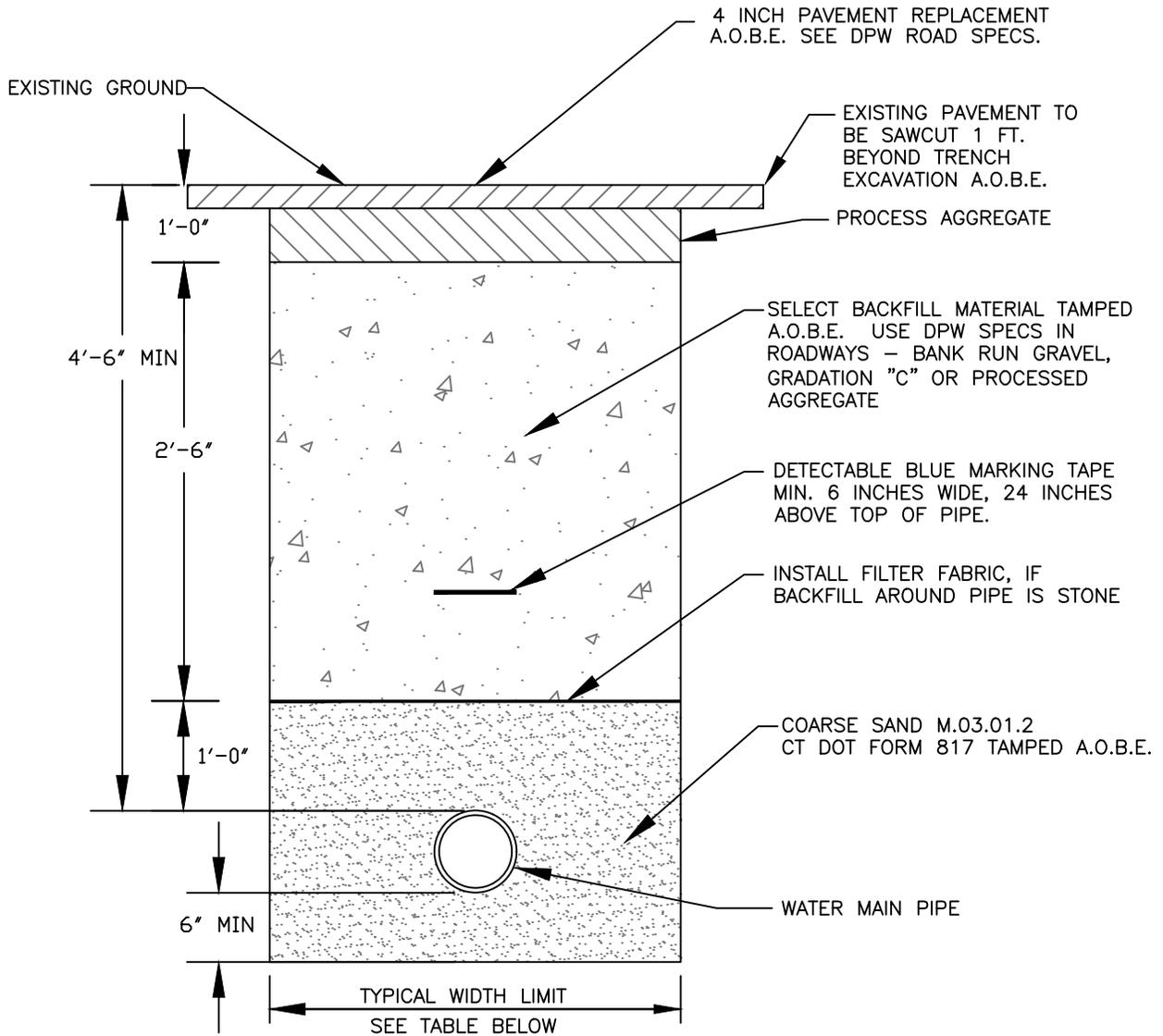
INFORMATION

All installations, building connections, valve operations, and test procedures must be cleared with the City of Middletown Water Department. Phone Number: 860-638-3500. Use the following extensions 860-638-XXXX:

| | |
|--------------------------|------|
| Distribution | 3540 |
| Backflow Prevention | 3526 |
| Markouts & Inspections | 3520 |
| Mapping and Information | 3516 |
| Assistant Chief Engineer | 3515 |
| Chief Engineer | 3517 |

TYPICAL TRENCH CROSS-SECTION (WATER OR FIRE SERVICE)

N.T.S.



TRENCH STANDARD LIMITS

| PIPE SIZE | WIDTH |
|-----------|-------|
| 6" | 3.0' |
| 8" | 3.0' |
| 12" | 3.0' |
| 16" | 3.4' |
| 20" | 3.9' |
| 24" | 4.3' |

NOTE:

PROVIDE GATE VALVE NUT EXTENSION IF NUT IS DEEPER THAN THREE FEET BELOW FINAL GRADE. (AOBE). THE NUT EXTENSION SHALL BE A GENECO MAIN VALVE STEM EXTENSION PART NO. 5VR-D.



CITY OF MIDDLETOWN
WATER & SEWER DEPARTMENT
ENGINEERING DIVISION

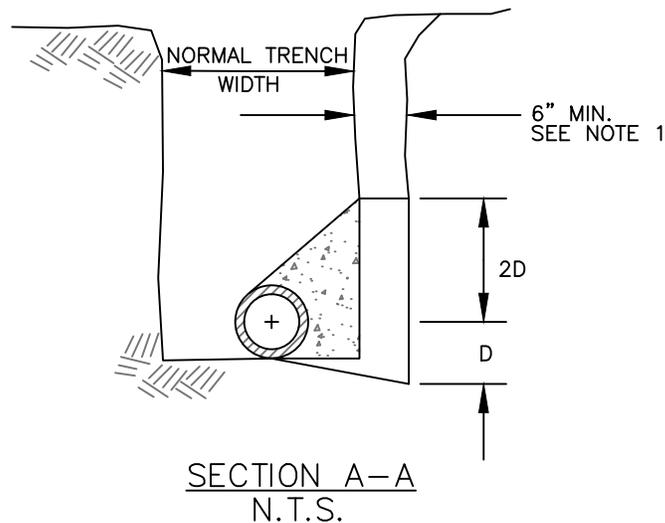
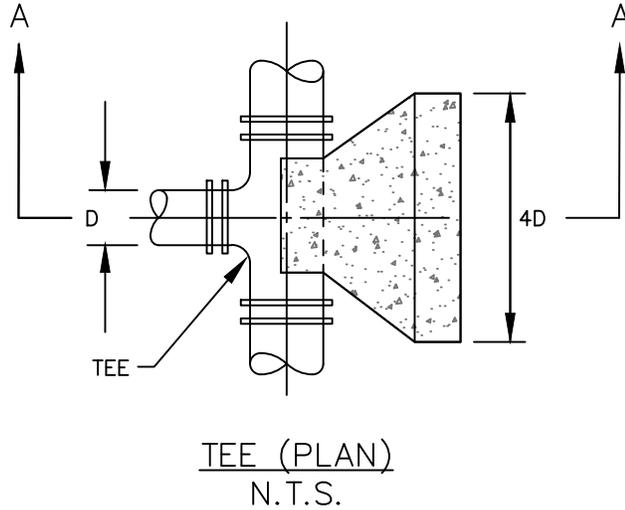
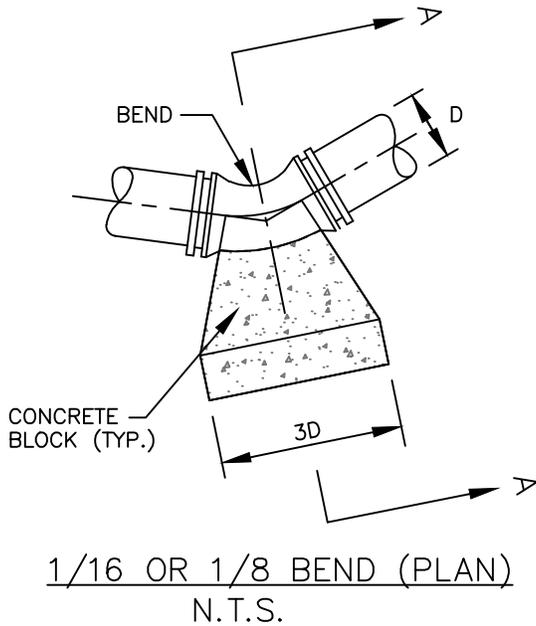
WATER SYSTEM SPECIFICATIONS TYPICAL TRENCH CROSS-SECTION

DATE: MARCH 2024

SHEET 1 OF 11

TYPICAL THRUST BLOCK DETAIL

N.T.S.



NOTES:

1. TRENCH SHALL BE EXCAVATED TO UNDISTURBED FIRM MATERIAL IMMEDIATELY PRIOR TO PLACING CONCRETE BLOCKS OR POURING CONCRETE.
2. INSTALL SOLID CONCRETE BLOCKS WITH OAK WEDGES. (TYPICAL)
3. POURED CONCRETE THRUST BLOCK SHALL BE 3,000 PSI.



CITY OF MIDDLETOWN
WATER & SEWER DEPARTMENT
ENGINEERING DIVISION

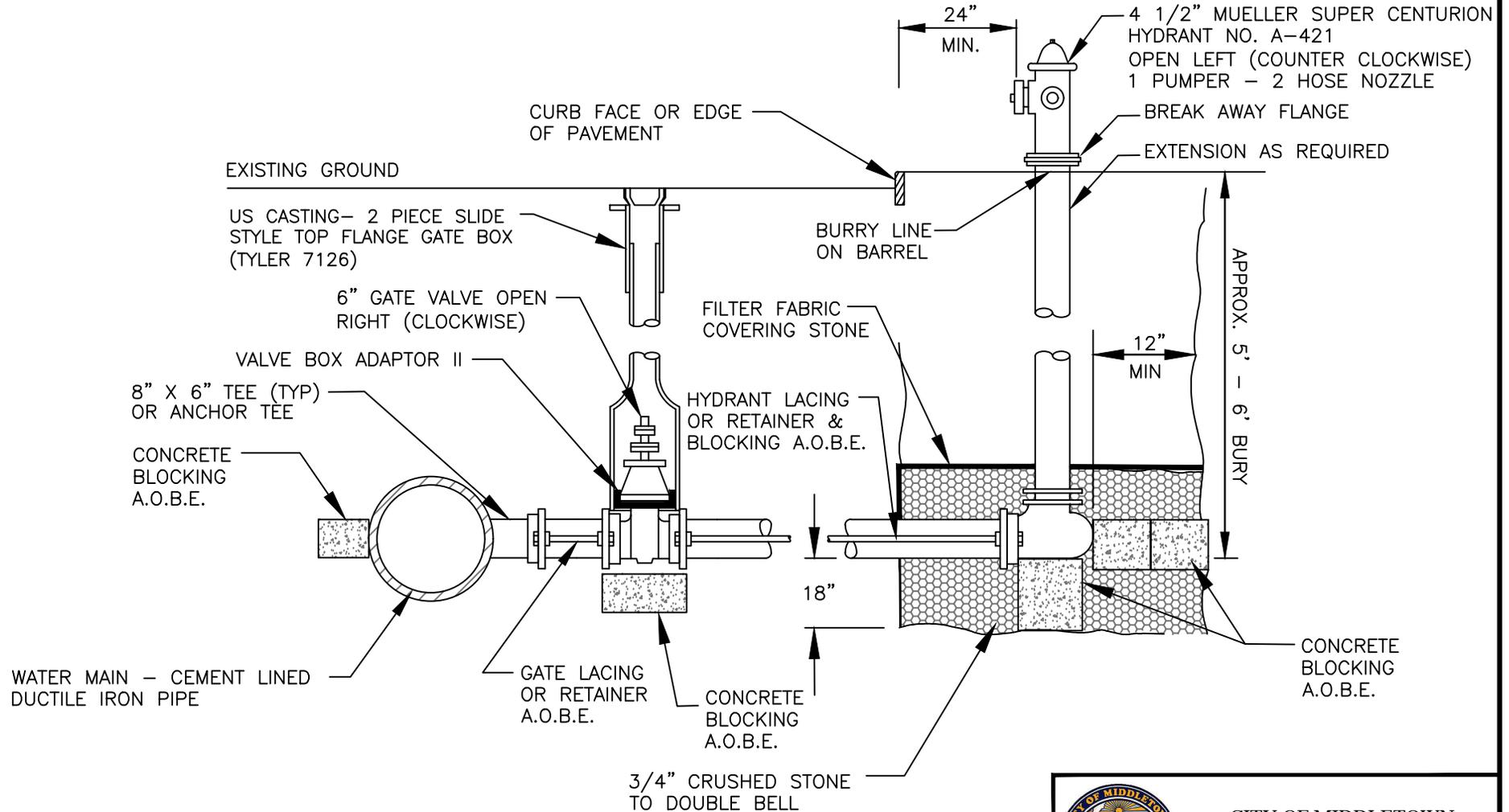
WATER SYSTEM SPECIFICATIONS
TYPICAL THRUST BLOCK DETAIL

DATE: MARCH 2024

SHEET 2 OF 11

TYPICAL HYDRANT & GATE VALVE DETAIL

N.T.S.



NOTES:

1. ALL HYDRANTS TO BE PAINTED IN ACCORDANCE WITH STANDARD CITY OF MIDDLETOWN SPECIFICATIONS.
2. GRADE ADJUSTMENT IS LIMITED TO A ONE FOOT (1') RISER. ADDITIONAL ADJUSTMENT TO BE MADE THROUGH FEED LINE OFFSET.
3. PLACE MINIMUM OF 6 CUBIC FEET OF 3/4" STONE FOR HYDRANT BLEED OFF BELOW WEEP HOLE.
4. INSTALL HYDRANT: FACE OF CURB OR EDGE OF PAVEMENT TO FACE OF PUMPER CAP MIN. 2 FEET.
5. NO ADJUSTABLE RISERS OR RISER RINGS ALLOWED.
6. ONLY BOTTOM SECTIONS OF GATE BOX CAN BE STACKED TO ADJUST BOX HEIGHT.
7. PROVIDE GATE VALVE NUT EXTENSION IF NUT IS DEEPER THAN THREE FEET BELOW FINAL GRADE. (AOBE). THE NUT EXTENSION SHALL BE A GENECO MAIN VALVE STEM EXTENSION PART NO. 5VR-D.



CITY OF MIDDLETOWN
WATER & SEWER DEPARTMENT
ENGINEERING DIVISION

WATER SYSTEM SPECIFICATIONS
TYPICAL HYDRANT & GATE VALVE
DETAIL

DATE: MARCH 2024

SHEET 3 OF 11

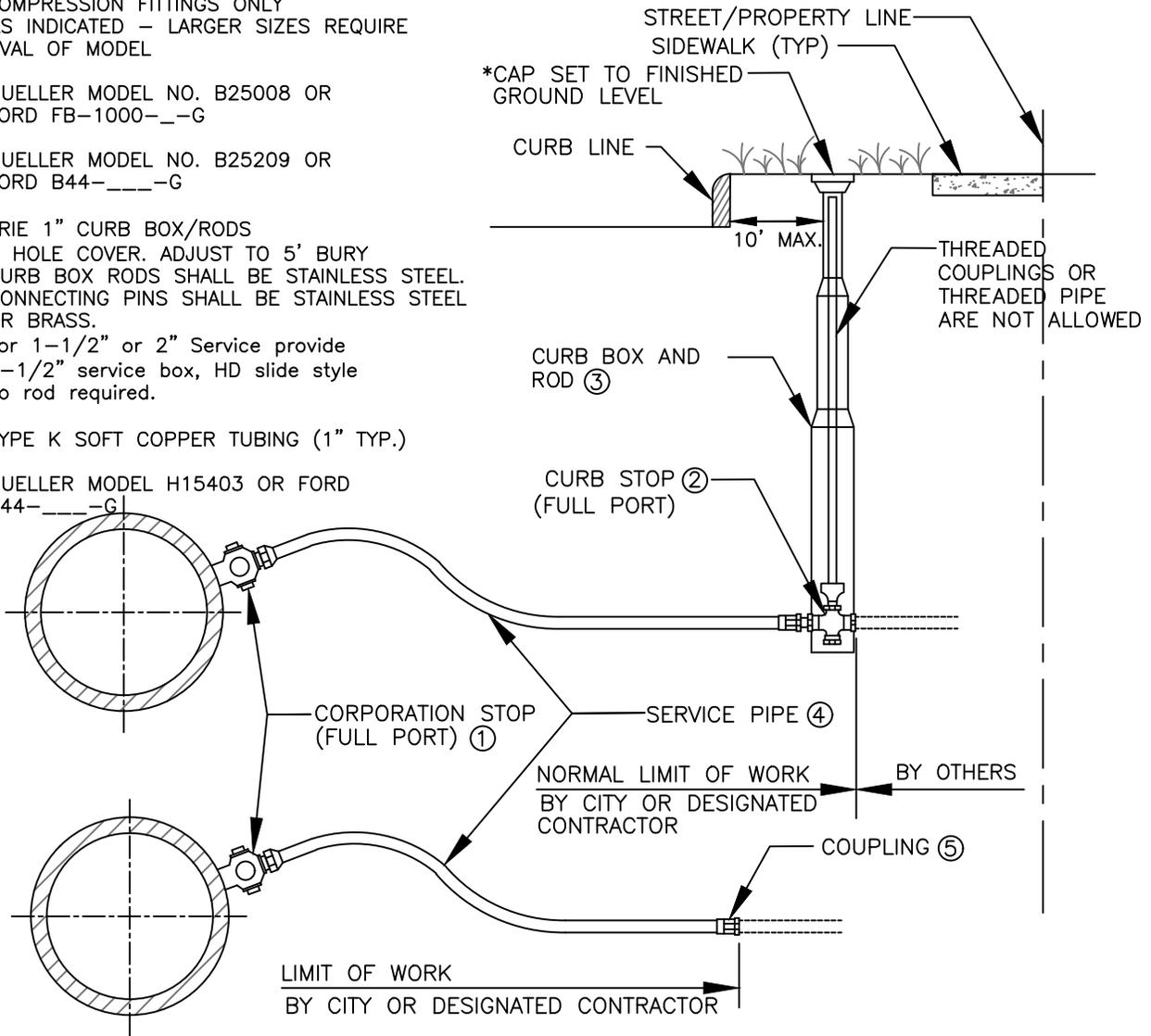
TYPICAL WATER SERVICE CONNECTION

N.T.S.

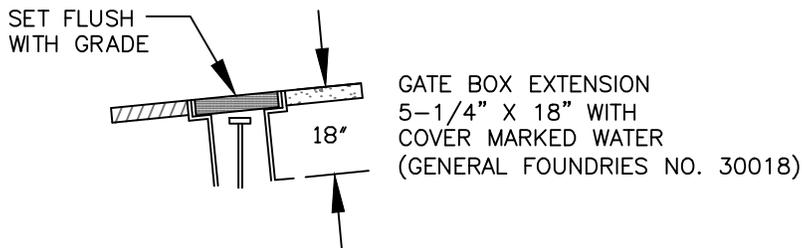
NOTES:

USE COMPRESSION FITTINGS ONLY
 SIZE AS INDICATED - LARGER SIZES REQUIRE
 APPROVAL OF MODEL

1. MUELLER MODEL NO. B25008 OR FORD FB-1000--G
2. MUELLER MODEL NO. B25209 OR FORD B44----G
3. ERIE 1" CURB BOX/RODS
 2 HOLE COVER. ADJUST TO 5' BURY
 CURB BOX RODS SHALL BE STAINLESS STEEL.
 CONNECTING PINS SHALL BE STAINLESS STEEL
 OR BRASS.
 For 1-1/2" or 2" Service provide
 2-1/2" service box, HD slide style
 no rod required.
4. TYPE K SOFT COPPER TUBING (1" TYP.)
5. MUELLER MODEL H15403 OR FORD C44----G



ALTERNATE RENEWED SERVICE

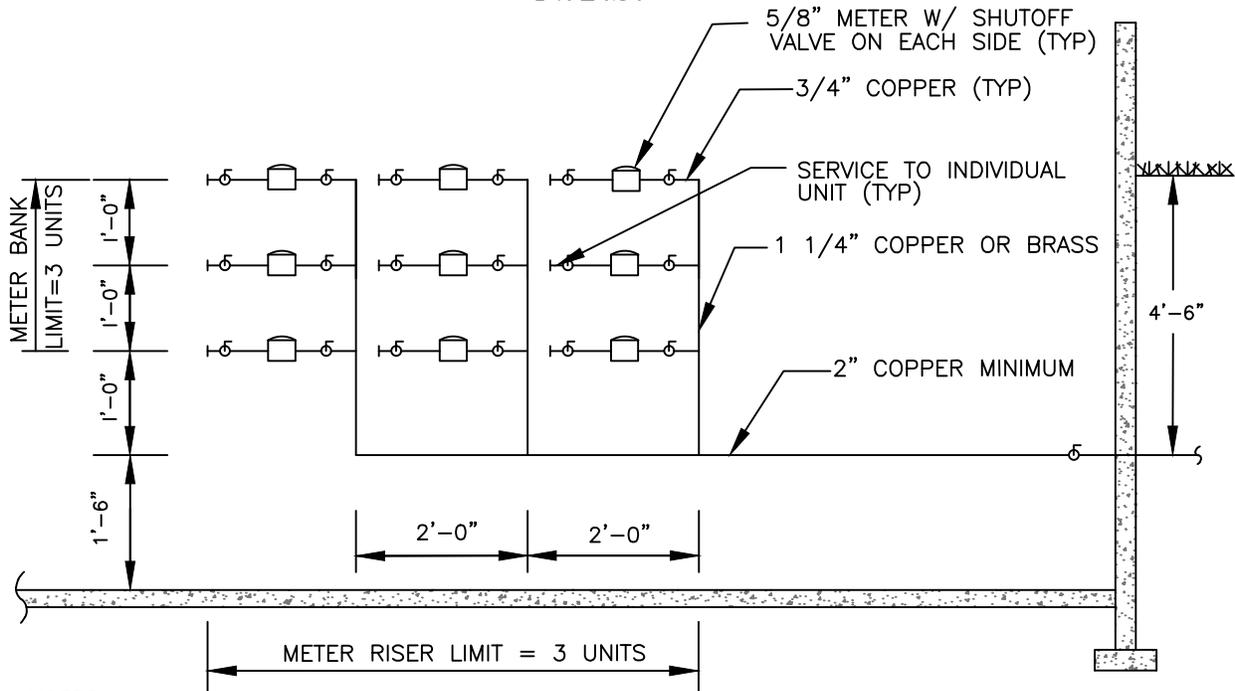


* -CURB BOXES LOCATED IN ANY TYPE OF VEHICULAR OR PEDESTRIAN TRAVEL WAY, DRIVEWAY, SIDEWALK, ETC., SHALL BE INSTALLED WITH A GATE BOX EXTENSION OVER THE CURB BOX.

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|  | <p>CITY OF MIDDLETOWN WATER & SEWER DEPARTMENT ENGINEERING DIVISION</p> |
| <p>WATER SYSTEM SPECIFICATIONS TYPICAL WATER SERVICE DETAIL</p> | |
| <p>DATE: MARCH 2024</p> | <p>SHEET 5 OF 11</p> |

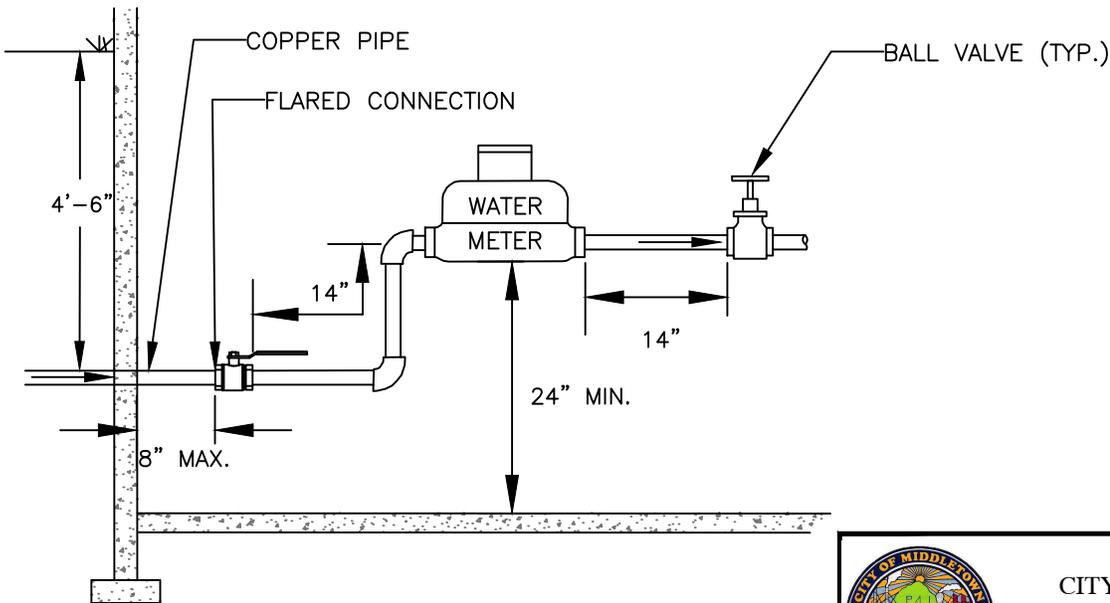
TYPICAL METER INSTALLATION

N.T.S.



NOTES:

1. EXACT MANIFOLD CONFIGURATION SUBJECT TO WATER DEPARTMENT APPROVAL.
2. MASTER METER REQUIRED FOR APARTMENT COMPLEXES. INDIVIDUAL CITY METERS NOT ALLOWED.
3. MULTI-METER CONFIGURATION FOR CONDOMINIUM AND PROPERTY OWNER'S ONLY. NO MASTER METER REQUIRED.
4. STACKED METERS ARE REQUIRED TO HAVE SEALED HEADS. OWNER IS RESPONSIBLE FOR THE COST TO UPGRADE TO METERS WITH SEALED HEADS.



NOTES:

1. PROPRESS FITTINGS NOT ALLOWED BEFORE THE METER.
2. METER SPREADER, METER & CONNECTORS PROVIDED BY MIDDLETOWN WATER DEPARTMENT.
3. WATER METER SHALL BE INSTALLED A MINIMUM OF 8" OFF WALL.
4. CONTRACTOR TO PROVIDE 1/2" CONDUIT TO EXTERIOR FOR RADIO READ WIRING. COORDINATE LOCATION WITH METER TECHNICIAN.



CITY OF MIDDLETOWN
WATER & SEWER DEPARTMENT
ENGINEERING DIVISION

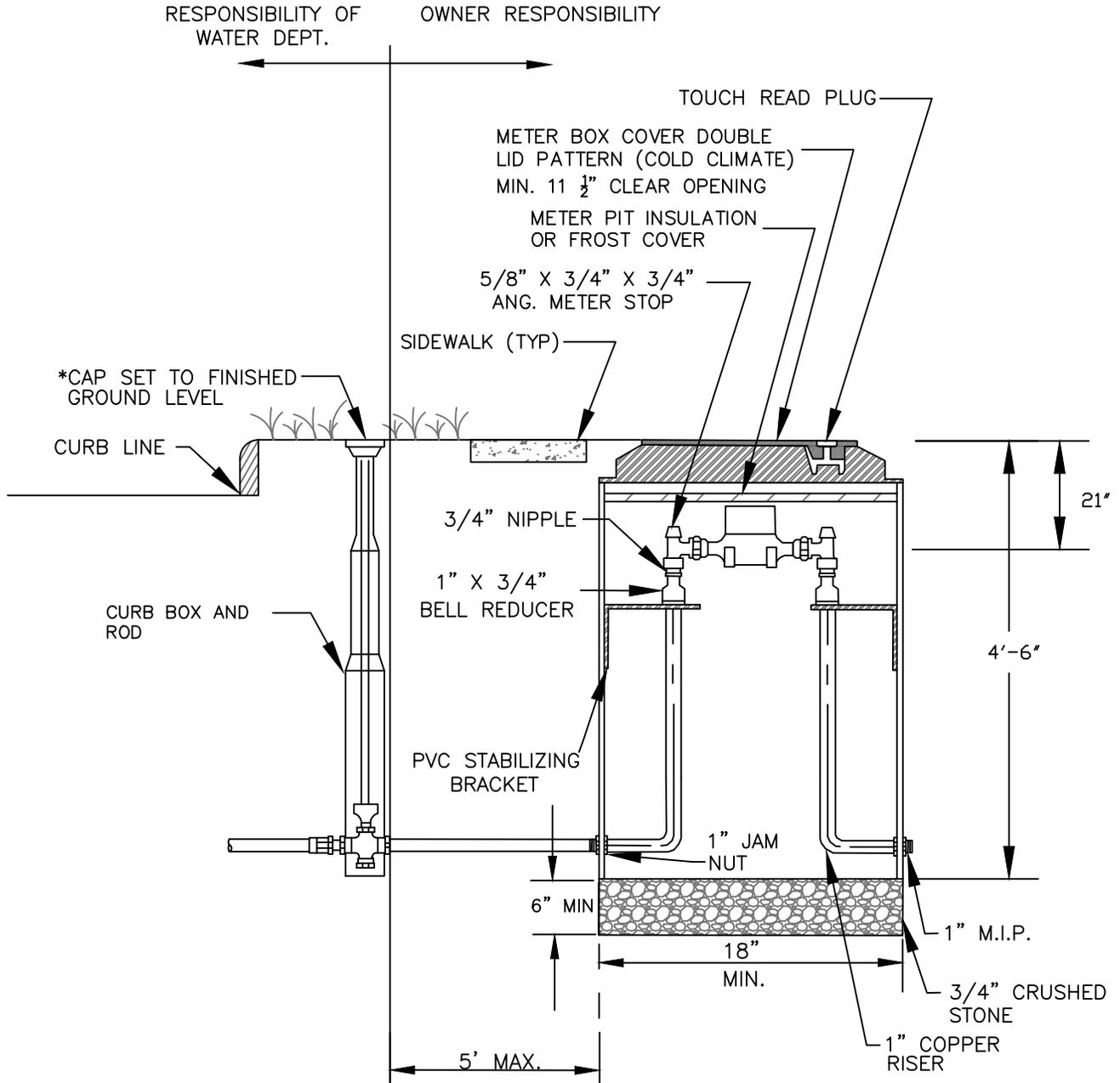
WATER SYSTEM SPECIFICATIONS
TYPICAL WATER METER
INSTALLATION

DATE: MARCH 2024

SHEET 6 OF 11

TYPICAL METER PIT DETAIL FOR 5/8" & 1" METERS

N.T.S.



NOTES:

1. METER SPREADER AND METER PROVIDED BY THE MIDDLETOWN WATER DEPARTMENT.
2. TI-PIT-3 BY TI SALES, MUELLER RISER EZ-SETTER, OR APPROVED EQUAL.
3. BALL VALVE TO BE INSTALLED INSIDE BUILDING FOR INTERIOR SHUT OFF.



CITY OF MIDDLETOWN
WATER & SEWER DEPARTMENT
ENGINEERING DIVISION

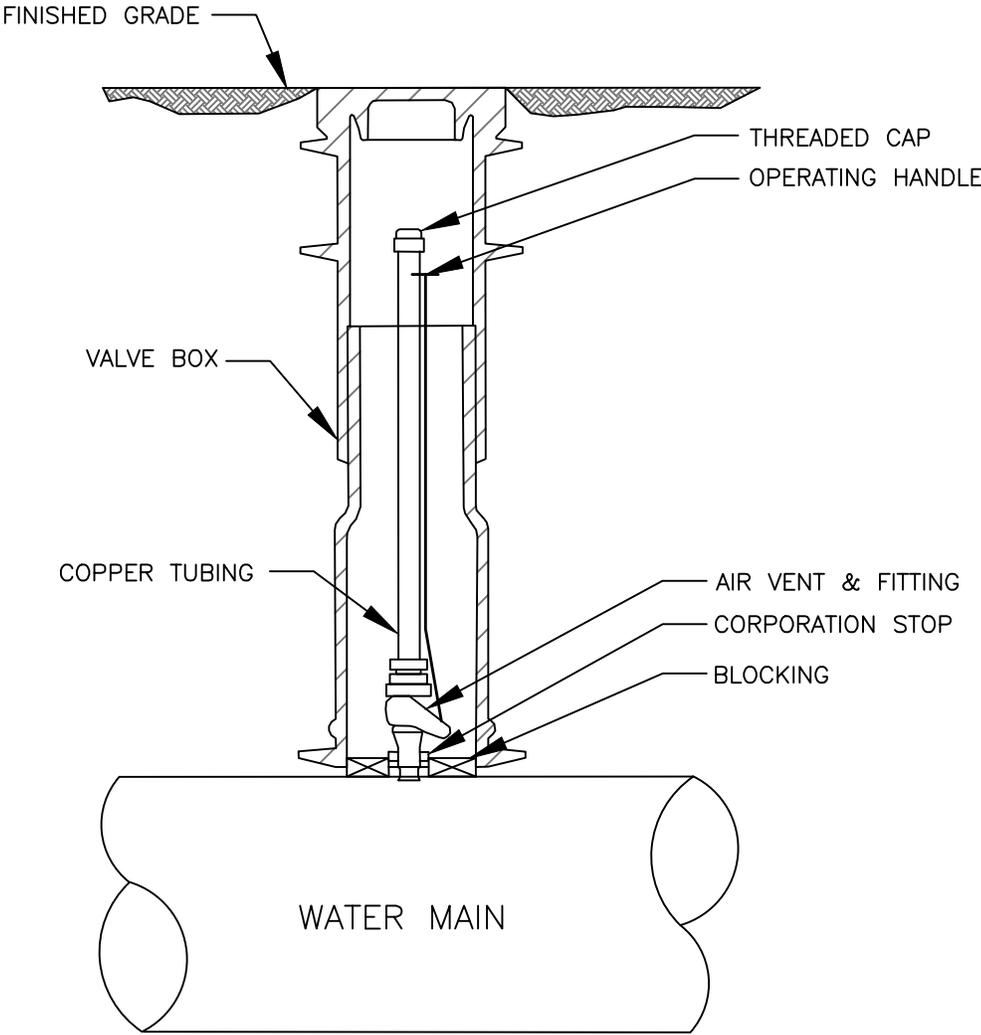
WATER SYSTEM SPECIFICATIONS
TYPICAL METER PIT DETAIL
FOR 5/8" AND 1" METERS

DATE: MARCH 2024

SHEET 8 OF 11

TYPICAL MANUAL AIR RELEASE VALVE DETAIL

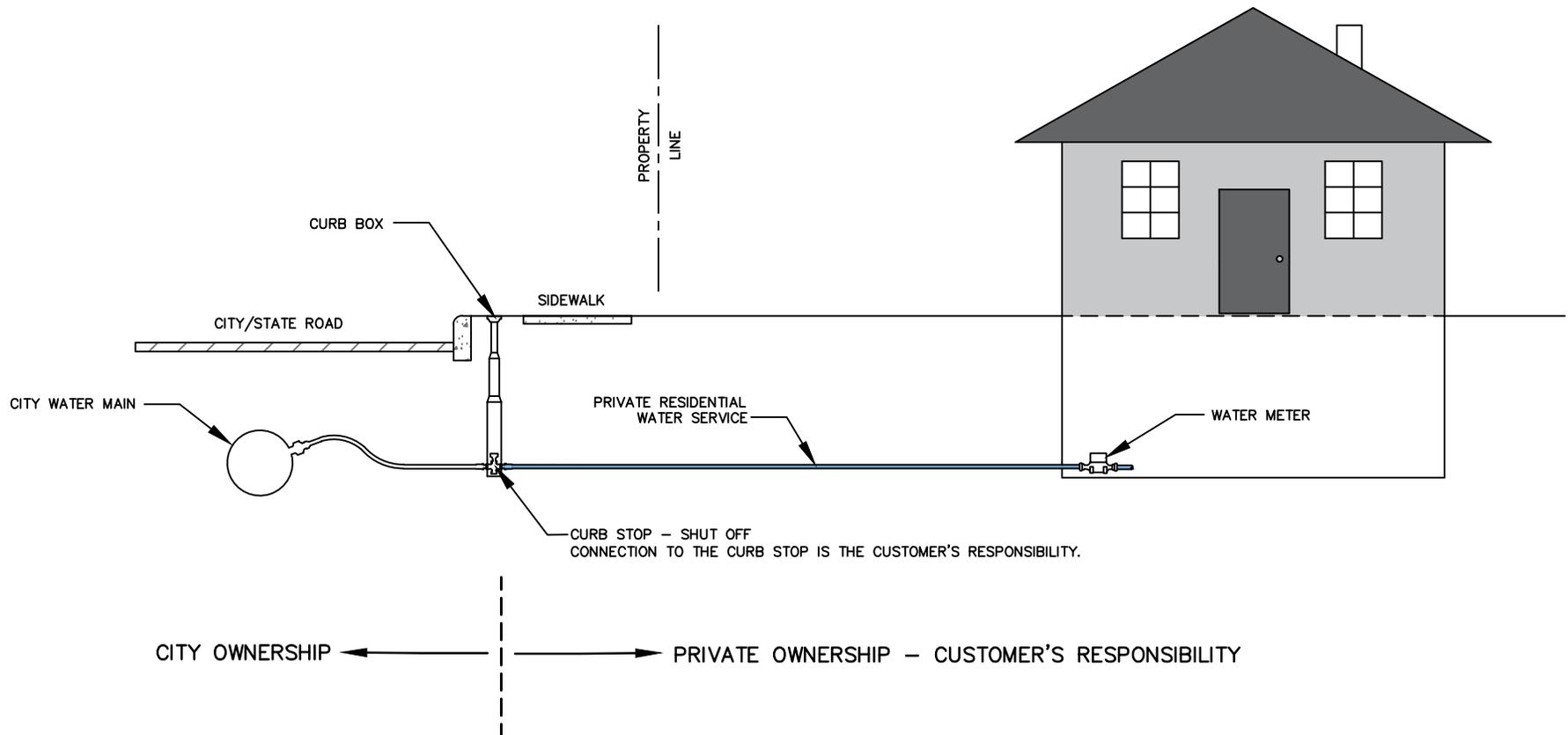
N.T.S.



NOTES:

- 1. WEDGE AIR RELEASE SYSTEM BY WEDGE MANUFACTURING OR APPROVED EQUAL.

| | |
|--|---|
|  | CITY OF MIDDLETOWN WATER & SEWER DEPARTMENT ENGINEERING DIVISION |
| | WATER SYSTEM SPECIFICATIONS TYPICAL MANUAL AIR RELEASE VALVE DETAIL |
| DATE: MARCH 2020 | SHEET 9 OF 11 |



1. Residential customers own and are responsible for the installation and maintenance of the water service from the building being served to the city-owned curb stop. The customer is responsible for the connection to the curb stop.
2. Non-residential customers or customers with water services 2-inches in diameter and larger own and are responsible for the installation and maintenance of the water service from the building being served to the city-owned valve closest to the water main. The customer is responsible for the connection at this valve.
3. Meter pits, if required, are the property of the customer. See, 'General Requirements - Water Mains and Service Installation' for details regarding meter location and requirements.
4. Meters are the property of the City. The customer shall provide the City access to the meter for reading, maintenance or replacement upon request. Any plumbing required to connect the meter to the service or interior piping is the responsibility of the owner.
5. An easement is required when a private service or water main is located on property owned by others.



CITY OF MIDDLETOWN
 WATER & SEWER DEPARTMENT
 ENGINEERING DIVISION

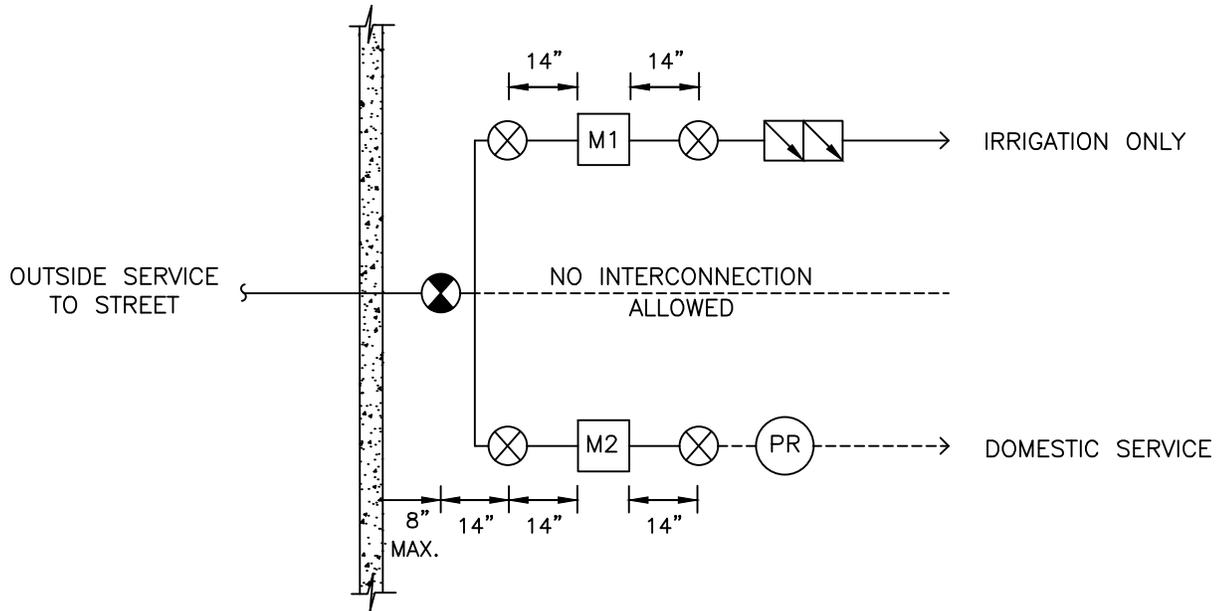
**LIMITS OF OWNERSHIP
 WATER SERVICE**

DATE: OCTOBER 2024

SHEET 10 OF 11

IRRIGATION METER DETAIL

N.T.S.



-  MAIN SHUT OFF VALVE
-  SHUT OFF VALVE
- M1 IRRIGATION METER
- M2 DOMESTIC METER
-  BACKFLOW METER
-  (PR) PRESSURE REDUCING VALVE
(IF REQUIRED)

NOTE:

METER INSTALLATIONS SHALL MEET ALL OTHER REQUIREMENTS CONTAINED IN THE GENERAL REQUIREMENTS AND SPECIFICATIONS.



CITY OF MIDDLETOWN
WATER & SEWER DEPARTMENT
ENGINEERING DIVISION

**WATER SYSTEM SPECIFICATIONS
IRRIGATION METER DETAIL**