CITY OF CHICAGO

DEPARTMENT OF WATER MANAGEMENT

MEMORANDUM

TO: Plan Desk
Department of Buildings – Plumbing Permit and Plan Section

FROM: Karen Bielarz
Managing Deputy Commissioner

SUBJECT: **City-Wide 2025 Water Service Price Schedule**

DATE: January 10, 2025

Attached is the 2025 Water Service Price Schedule which supersedes the previously issued schedule dated January 1, 2024. The fixed-cost water service prices have been adjusted based upon the ENR Construction Cost Index of 1.60.

The Water Service Price Schedule will be effective starting January 1, 2025.

Cc: R. Conner
J. Vieyra
M. Quinn
H. Krueger
C. Venegas
A. Falada
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DEPARTMENT OF WATER MANAGEMENT
City-Wide 2025 Water Service Price Schedule

Effective: January 1, 2025

Fee Waivers

Per Section 2-8-065 of the Municipal Code, no city department or local, state or federal government agency, nor any individual person or non-for-profit organization can have their service termination or service installation fees waived, except by an ordinance that specifically authorizes the waiver of these fees.

City of Chicago is launching a program to waive the permit fees for Homeowner-Initiated Lead Service Line Replacement (LSLR) Program. For more information, go to https://www.leadsafechicago.org/lead-service-line-replacement

Water Service/Stub Terminations (cut/seal)

- All live services must be terminated prior to issuance of demolition permit; all unused services/stubs must be terminated at the connection to the public water main prior to issuance of construction/building permit. This includes all permits issued for any new water service. It is the owner's responsibility to terminate all existing water services entering the site prior to construction. Notify the DWM immediately of any services entering the site not listed within DWM's records.

- Reuse of any existing water service is not permitted. Buildings undergoing renovations must submit plans for review. Separate fire and domestic services are not permitted, and any existing separate fire and domestic services must be replaced with a combined water service.

- This policy is City wide and requirements apply to all waivers. All service terminations greater than 3-inches, from water mains larger than 12-inches will be based on an estimate and charged actual cost upon completion.

- If the work to terminate a service is not performed, or not performed according to DWM standards, additional expenses may be incurred to the project, and/or the new water service will be shut-off at the owner's expense.

Loss Recovery / Court & City Ordered Demolition

- Below is the fixed-fee to terminate any size water service on main 12-inch and smaller under the conditions of court and City order demolition. This is an average cost based upon DWM regular time and includes excavation, termination of the water service at the main, backfilling, and restoration. Contact Consuelo Venegas with BES at Consuelo.Venegas@cityofchicago.org for an estimate of any service termination off a main greater than 12-inches.

2" and Smaller Service Termination off 12" Main and Smaller:	$16,250
3" and Larger Service Termination off 12" Main and Smaller:	$20,140

Water Service/Stub Terminations 2-inch and Smaller

- Contact Chief Plumbing Inspector at 312-744-7017 to coordinate work and/or schedule inspection. All work must have final inspection/approval prior to backfill; failure to comply with DWM requirements may increase project costs.

- Owner's contractor is responsible for termination of services/stubs by a licensed plumber per DWM standards, which includes but is not limited to obtaining all applicable permits, tracing equipment, excavation/OSHA shoring, backfilling/compaction, abandonment of appurtenances (meter vault/valve box/valve basin) and restoration to CDOT standards.

- If the work to terminate a service is not performed, or not performed according to DWM standards, additional expenses may be incurred to the project, and/or the new water service will be shut-off at the owner's expense.

	Regular Time (7am - 3pm)	Premium Time (Outside 7am - 3pm)
DWM Inspection Fee	$710 per service/stub	$1,420 per service/stub

Water Service/Stub Terminations 3-inch Thru 12-inch (Water Mains 16-inch and Smaller)

- If the work to terminate a service is not performed, or not performed according to DWM standards, additional expenses may be incurred to the project, and/or the new water service will be shut-off a the owner's expense.

- DWM work is limited to pipework ONLY. Owner's contractor is responsible for: obtaining all applicable permits, tracing equipment, excavation/OSHA shoring, backfilling/compaction, abandonment of appurtenances (meter vault/valve box/valve basin) and restoration to CDOT standards.

- Note: All large water service installations and large service cut offs are to be performed on Premium Time. Valve operations are limited to be performed on Saturdays only.

- Contact Consuelo.Venegas@cityofchicago.org for an estimate of cost for any service termination on a main larger than 12-inches.

Size of Main	Regular Time (7am - 3pm)	Premium Time (Outside 7am - 3pm)
6" or smaller W.M	$6,210	$7,900
8" W.M.	$6,490	$8,210
12" W.M.	$6,490	$8,210
16" W.M.	Contact DWMPermits@cityofchicago.org for fixed cost.	

Specials

Dual Service/Single with Line Valves Service Terminations.

Size of Main	Regular Time (7am - 3pm)	Premium Time (Outside 7am - 3pm)
6" or smaller W.M	$8,930	$10,990
8" W.M.	$9,800	$11,870
12" W.M.	$11,660	$13,950
16" W.M.	Contact DWMPermits@cityofchicago.org for fixed cost.	

Exceptions:

Existing Ductile Iron Mechanical Joint Tee Water Main Service Terminations (BES written approval required):

Size of Main	Regular Time (7am - 3pm)	Premium Time (Outside 7am - 3pm)
12" or smaller W.M	$3,740	$4,270

Temporary Fire Hydrant Use Policy

- Per Section 11-12-290 of the Municipal Code, a permit is required for the temporary use of a fire hydrant and the applicant must pay the required daily charge for the water at the time of permit issuance. A backflow prevention device must be installed on all hoses attached to the fire hydrant used for temporary water. Permits must be on site at all times. To apply for a hydrant permit, go to hup.buildinganewchicago.org.

- All HUP requests made when the air temperature is below 40 degrees Fahrenheit, must submit a letter stating how the existing fire hydrant will be protected from damage when the temperature is below freezing along with the HUP request. No permit will be issued when air temperature is at 0 degrees Fahrenheit or lower.

Custodial Cap Removal and Replacement

- For any requests of a removal of a custodial cap of an existing fire hydrant, please submit a letter addressed to the Commissioner of DWM stating the reason and duration of the custodial cap removal. The requester is responsible for any damage to the fire hydrant while in use and while the custodial cap is removed. This Department shall provide a DWM crew for the fire hydrant as requested. After construction, this Department shall replace the custodial cap.

- Contact DWM inspection at DWMpermits@cityofchicago.org or 312-744-7017, Monday through Friday, 8:00AM to 3:00PM, for an issuance of an invoice once approved. The custodial cap removal fee is in additional to the HUP fees and other requirements.

Regular Time (7am - 3pm)	Premium Time (Outside 7am - 3pm)
$2,350	$2,730

Valve Operations

- For valve operations on a service control valve, please see below for the listed prices. The plumbing contractor must submit a b-permit request to DWMpermits@cityofchicago.org or 312 744- 7017 stating the scope of the work within the building. Once the b-permit is issued, DOB will issue an invoice for the requested valve operations. Additional fixed fees may be applied to the b-permit.
- Please contact the Chief Plumbing Inspector at 312-744-7017 with a b-permit to schedule a plumbing inspector with the valve operations.
- If valve operations are required on a public water main, please contact BES at Consuelo.Venegas@cityofchicago.org for an estimate of cost.
- Additional costs will be required for each additional visit of a service due to the contractor not being ready on the initial visit.

Regular Time (7am - 3pm)	Premium Time (Outside 7am - 3pm)
$3,480	$4,260

Siamese Connections

All proposed Siamese connections must be installed within 100 feet of an existing fire hydrant.

Water Service Tap Installations

- Existing water bills must be current before permits are issued for a new water service.
- All proposed water services 6-inches and larger must be reviewed and approved by BES for adequate water capacity of the water main being connected to. If there is insufficient capacity to meet the demands of the development, the owner is responsible for the cost of water main upgrades, replacements and/or extensions necessary to supply their water demands, as determined by BES.
- Water services larger than 4-inches must have the service control valve and basin adjacent to the water main. Any water services installed that must be adjusted due to unforeseen conflicts must comply with DWM standards and IEPA Title 35 compliance and will be paid, owned and maintained by the property owner from the service control valve at the water main connection. All services 4-inch and under must include a valve box installed in the parkway.
- Separate fire, domestic, or industrial services are not permitted; only one combined water service per a single structure or property is allowed.
- DWM work limited to installation of tap ONLY. Owner's contractor is responsible for: obtaining all applicable permits, excavation/OSHA shoring, backfilling/compaction and restoration to CDOT standards. Contractor will be provided roundway/b-box/valve box/one meter to be installed by contractor. The DWM will not refund the cost of valve basins in the event that the developer/contractor installs a valve basin to accommodate their schedule. Any valve basins installed by the contractor must be pre-approved by the Chief Plumbing Inspector prior to installation.
- Contact Chief Plumbing Inspector at 312-744-7017 to schedule inspection. All work must be inspected/approved prior to backfill; failure to comply with DWM requirements may increase projects costs.
- Per Section 11-12-210 of the Code, meters shall be installed at the time the building is connected to the water system.
- Fixed Fees are based on typical services which are installed perpendicular to the water main, directly into the property. Any deviations from typical installation requires BES written approval.
- If the DWM determines that the water main canot be tapped, then the customer shall be responsible for all additional costs associated with making a tee service connection. The Commissioner has sole discretion on how the service connection is made.
- All taps must be smaller than the water main being tapped.
- No water services are allowed off feeder mains 16" and larger. If 8"/12" water mains are not available for a water service connection, then a main extension at the owner's expense may be required to service the parcel.
- No water service can be taken from a water main that is located within an easement.
- Owner's contractor responsible for the coordination, relocation and costs of any utilities that conflict with the water service installation.
- Any change to the number of dwelling units to an existing residential building may require a new water service and/or new water meter to provide adequate water service to the building. The building's single water service and water meter must be sized in accordance with Section 18-29-604 of the current Plumbing Code to accommodate the total dwelling units in the building.
- Any new or rehabilitated coach house must have an easement recorded against the primary structure to protect the water service to the coach house. If the coach house abuts a public ROW with a water main, the coach house must connect directly to the main in the public ROW; a water service through the primary structure is not allowed when the coach house has access to a public water main. If there is no water main in the public ROW, a main extension at the owner's expense may be required to serve the parcel.
- Buildings fronting a public right-of-way are required to connect their water service directly to the water main in the ROW. Meter vaults and trunk lines are permitted only for buildings that do not face the public way, and all trunk lines must include a meter vault. The installation of a meter vault and trunk line, if required, will be at the owner's expense.
- All new water service(s) must be compliant with Title 35 of the Illinois Environmental Protection Agency (IEPA).
- Should existing field conditions not allow for the water service installation of the proposed service per plan, the owner will be responsible for additional costs necessary to install the
- Tap fees only include two (2) inspections: meter/stub out inspection and the day of tap/cut in inspection.
- All additional inspections will require are inspection fee.

Installation of One Service Tap (Size of Mains 6" Through 12")

Tap Size	Regular Time (7am - 3pm)	Premium Time (Outside 7am - 3pm)
1"	$2,000	$2,380
1½"	$2,430	$2,790
2"	$2,760	$3,090

BES written approval is required for all taps off water mains size 16-inch and larger

Installation of One Service (Tapping Connection)

Size of Main	Regular Time (7am - 3pm)	Premium Time (Outside 7am - 3pm)
4" Water Service		
6" W.M.	$5,490	$6,070
8" W.M.	$5,880	$6,430
12" W.M.	$5,950	$6,480
16" W.M.	BES Written Approval Required (estimated and charged actual)	

Installation of One Service (Tapping Connection) - Continued

6" Water Service		
8" W.M.	$10,810	$11,570
12" W.M.	$10,870	$11,620
16" W.M.	BES Written Approval Required (estimated and charged actual)	
8" Water Service		
12" W.M.	$12,620	$13,540
16" W.M.	BES Written Approval Required (estimated and charged actual)	
12" Water Service		
16" W.M.	BES Written Approval Required (estimated and charged actual)	

Water Service Tee Installations

- Existing water bills must be current before permits are issued for a new water service.
- All proposed water services 6-inches and larger must be reviewed and approved by BES for adequate water capacity of the water main being connected to. If there is insufficient capacity to meet the demands of the development, the owner is responsible for the cost of water main upgrades, replacements and/or extensions necessary to supply their water demands, as determined by BES.
- Water services larger than 4-inches must have the service control valve and basin adjacent to the water main. Any water services installed that must be adjusted due to unforeseen conflicts must comply with DWM standards and IEPA Title 35 compliance and will be paid, owned and maintained by the property owner from the service control valve at the water main connection. All services 4-inch and under must include a valve box installed in the parkway.
- Separate fire, domestic, or industrial services are not permitted; only one combined water service per a single structure or property is allowed.
- DWM work limited to pipework ONLY. Owner's contractor is responsible for: obtaining all applicable permits, excavation/OSHA shoring, backfilling/compaction and restoration to CDOT standards. Contractor to provide ductile iron pipe per DWM standards. Contractor will be provided only one meter regardless of type of installations below. DWM will provide and install one service control valve. The DWM will not refund the cost of valve basins in the event that the developer/contractor installs a valve basin to accommodate their schedule. Any valve basins installed by the contractor must be pre-approved by the Chief Plumbing Inspector prior to installation.
- Contractor to allow two weeks after payment is made to schedule service installation.
- Contact Chief Plumbing Inspector at 312-744-7017 to schedule inspection. All work must be inspected/approved prior to backfill; failure to comply with DWM requirements may increase projects costs.
- Per Section 11-12-210 of the Municipal Code, meters shall be installed at the time the building is connected to the water system.
- Fixed Fees are based on typical services which are installed perpendicular to the water main, directly into the property.
- Any deviations from typical installation requires BES written approval.
- No water services are allowed off feeder mains 16" and larger. If 8"/12" water mains are not available for a water service connection, then a main extension at the owner's expense may be required to service the parcel.
- No water service can be taken from a water main that is located within an easement
- Owner's contractor responsible for the coordination, relocation and costs of any utilities that conflict with the water service installation.
- Any change to the number of dwelling units to an existing residential building may require a new water service and/or new water meter to provide adequate water service to the building. The building's single water service and water meter must be sized in accordance with Section 18-29-604 of the current Plumbing Code to accommodate the total dwelling units in the building.
- Any new or rehabilitated coach house must have an easement recorded against the primary structure to protect the water service to the coach house. If the coach house abuts a public ROW with a water main, the coach house must connect directly to the main in the public ROW; a water service through the primary structure is not allowed when the coach house has access to a public water main. If there is no water main in the public ROW, a main extension at the owner's expense may be required to serve the parcel.
- All new water service(s) must be compliant with Title 35 of the Illinois Environmental Protection Agency (IEPA)
- Should existing field conditions not allow for the water service installation of the proposed service per plan, the owner will be responsible for additional costs necessary to install the water service.
- Tap fees only include two (2) inspections: meter/stub out inspection and the day of tap/cut in inspection.
- All additional inspections will require are inspection fee.

Installation of One Service (Tee Connection)

Size of Main	Regular Time (7am - 3pm)	Premium Time (Outside 7am - 3pm)
6" Water Service		
6" W.M.	$14,650	$16,280
8" W.M.	$15,210	$16,550
12" W.M.	$15,610	$17,260
8" Water Service		
6" W.M.	$16,420	$18,060
8" W.M.	$15,500	$17,140
12" W.M.	$16,140	$17,770
12" Water Service		
6" W.M.	N/A	N/A
8" W.M.	$19,850	$21,470
12" W.M.	$18,820	$20,450

Installation of One Service With One Line Valve

Size of Main	Regular Time (7am - 3pm)	Premium Time (Outside 7am - 3pm)
6" Water Service		
6" W.M.	$19,970	$21,590
8" W.M.	$20,600	$22,250
12" W.M.	$23,190	$24,850

Installation of One Service With One Line Valve - Continued

8" Water Service		
6" W.M.	$21,810	$23,450
8" W.M.	$21,810	$23,450
12" W.M.	$23,650	$25,280
16" W.M.	BES Written Approval Required (estimated and charged actual)	
12" Water Service		
6" W.M.	N/A	N/A
8" W.M.	$25,140	$26,780
12" W.M.	$25,930	$27,540
16" W.M.	BES Written Approval Required (estimated and charged actual)	

Installation of One Service With 2 Line Valves

Protected services (a line valve between dual water services or two line valves on either side of a water service) are designed to minimize the disruption of water service to the customer. However, continuous water service is not guaranteed should there be maintenance issues on the assembly or the valve(s).

Size of Main	Regular Time (7am - 3pm)	Premium Time (Outside 7am - 3pm)
6" Water Service		
6" W.M.	$26,020	$27,740
8" W.M.	$27,010	$28,740
12" W.M.	$31,570	$33,300
16" W.M.	BES Written Approval Required (estimated and charged actual)	
8" Water Service		
6" W.M.	$28,150	$30,620
8" W.M.	$28,150	$30,620
12" W.M.	$31,700	$33,760
16" W.M.	BES Written Approval Required (estimated and charged actual)	
12" Water Service		
6" W.M.	N/A	N/A
8" W.M. * See note below	$31,550	$34,070
12" W.M.	$34,260	$36,030
16" W.M.	BES Written Approval Required (estimated and charged actual)	

*Note: The price for a 12" water service off an 8" water main includes a 12"x12" tee and two 8" line valves.

Installation of Two Services With One Line Valve

Protected services (a line valve between dual water services or two line valves on either side of a water service) are designed to minimize the disruption of water service to the customer. However, continuous water service is not guaranteed should there be maintenance issues on the assembly or the valve(s).

Size of Main	Regular Time (7am - 3pm)	Premium Time (Outside 7am - 3pm)
6" Water Service		
6" W.M.	$26,250	$28,010
8" W.M.	$27,010	$28,740
12" W.M.	$29,950	$31,680
16" W.M.	BES Written Approval Required (estimated and charged actual)	
8" Water Service		
6" W.M.	$28,740	$30,480
8" W.M.	$28,740	$30,480
12" W.M.	$30,850	$32,560
16" W.M.	BES Written Approval Required (estimated and charged actual)	
12" Water Service		
6" W.M.	N/A	N/A
8" W.M.	$36,420	$38,160
12" W.M.	$36,420	$38,160
16" W.M.	BES Written Approval Required (estimated and charged actual)	

Meter Fee Schedule

Additional Meter Fees

A new meter is provided as part of a new service permit, and a second meter or replacement meter is charged per the schedule below. Any meter that requires an upgrade in size after the permit is issued will require the plumbing contractor to pay the cost difference in price.

Meter Size	Cost (with overhead at 45.49%)
5/8" Standard	$300
1" Standard	$431
1.5" Standard	$966
2" Standard	$1,291
3" Standard Turbo	$2,235
4" Standard Turbo	$3,002
6" Standard Turbo	$6,572
8" Standard Turbo	$9,395
10" Standard Turbo	$12,716
12" Standard Turbo	$13,314
4"X2" Compound	$11,286
6"X2" Compound	$15,730
8"X2" Compound	$20,244
10"X2" Compound	$26,820
12"X2" Compound	$33,467

Fire Meter Test Fees

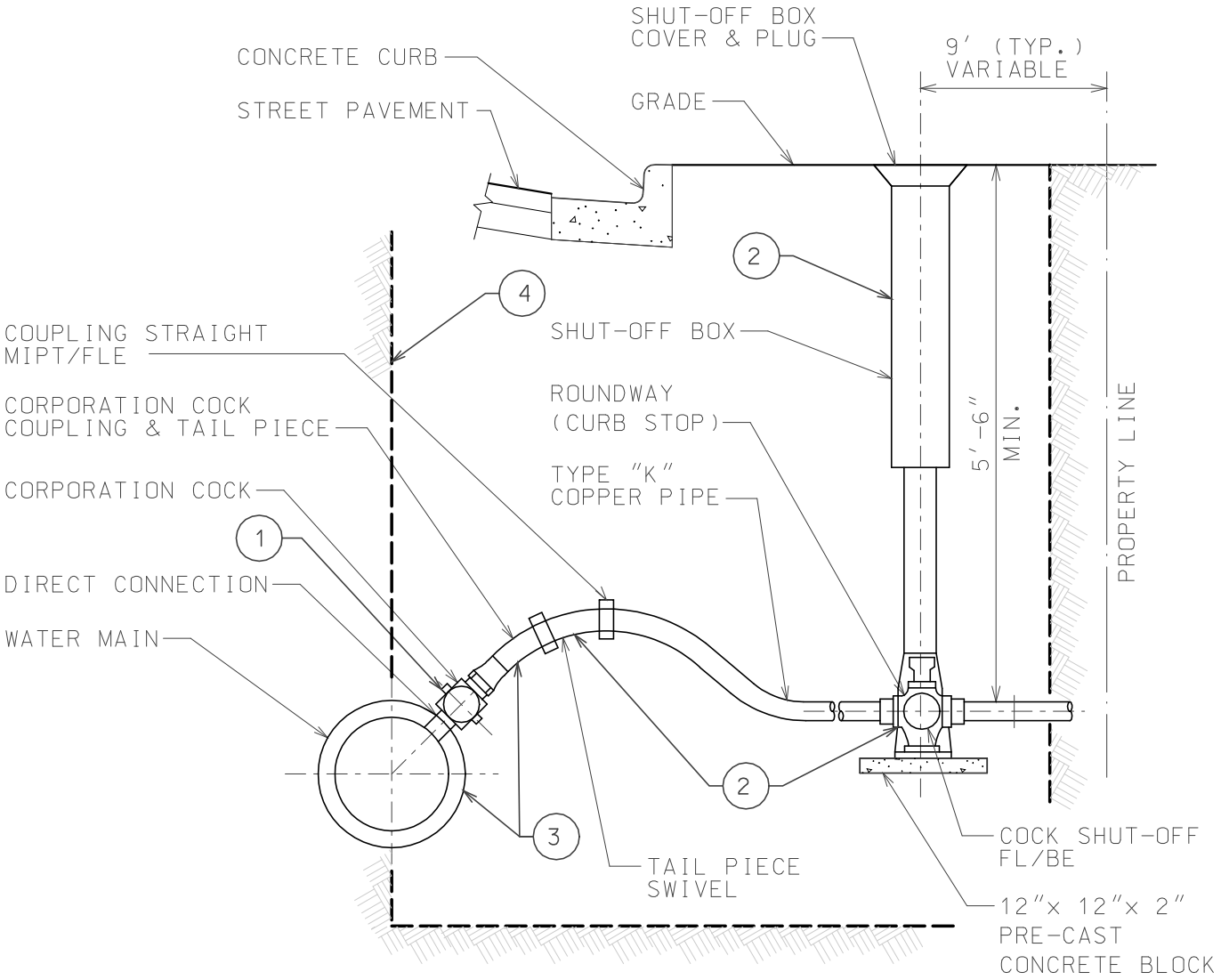
Meter Size	Cost (with overhead at 107.38%)
5/8" Standard	$110
1" Standard	$110
1.5" Standard	$110
2" Standard	$110
3" Standard Turbo	$190
4" Standard Turbo	$190
6" Standard Turbo	$190
8" Standard Turbo	$300
10" Standard Turbo	$300
12" Standard Turbo	$340
4"X2" Compound	$1,040
6"X2" Compound	$1,040
8"X2" Compound	$1,040
10"X2" Compound	$1,040
12"X2" Compound	$1,040

Miscellaneous Fees

Water Service Re-Inspection

Additional inspection fee will be required for each additional re-inspection of a service. This fee applies to any size water service.

DWM Re-Inspection Fee	$500



PRIVATE CONTRACTOR'S RESPONSIBILITIES

CONTACT CHIEF PLUMBING INSPECTOR (312-744-7017) TO COORDINATE WORK AND SCHEDULE AN INSPECTION. ALL WORK MUST BE INSPECTED/APPROVED PRIOR TO BACKFILL; FAILURE TO COMPLY WITH DWM REQUIREMENTS MAY INCREASE PROJECT COSTS TO VERIFY DWM STANDARDS HAVE BEEN MET.

PRIVATE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF THE SERVICE (DWM TO TAP) BY A LICENSED PLUMBER PER DWM STANDARD DETAILS AND OBTAINING ALL APPLICABLE PERMITS, EXCAVATION/SHORING PER CDOT STANDARDS*, BACKFILLING/COMPACTION, INSTALLATION OF APPURTENANCES (METER VAULT/VALVE BOX/VALVE BASIN) AND ALL RESTORATION TO CDOT STANDARDS*.

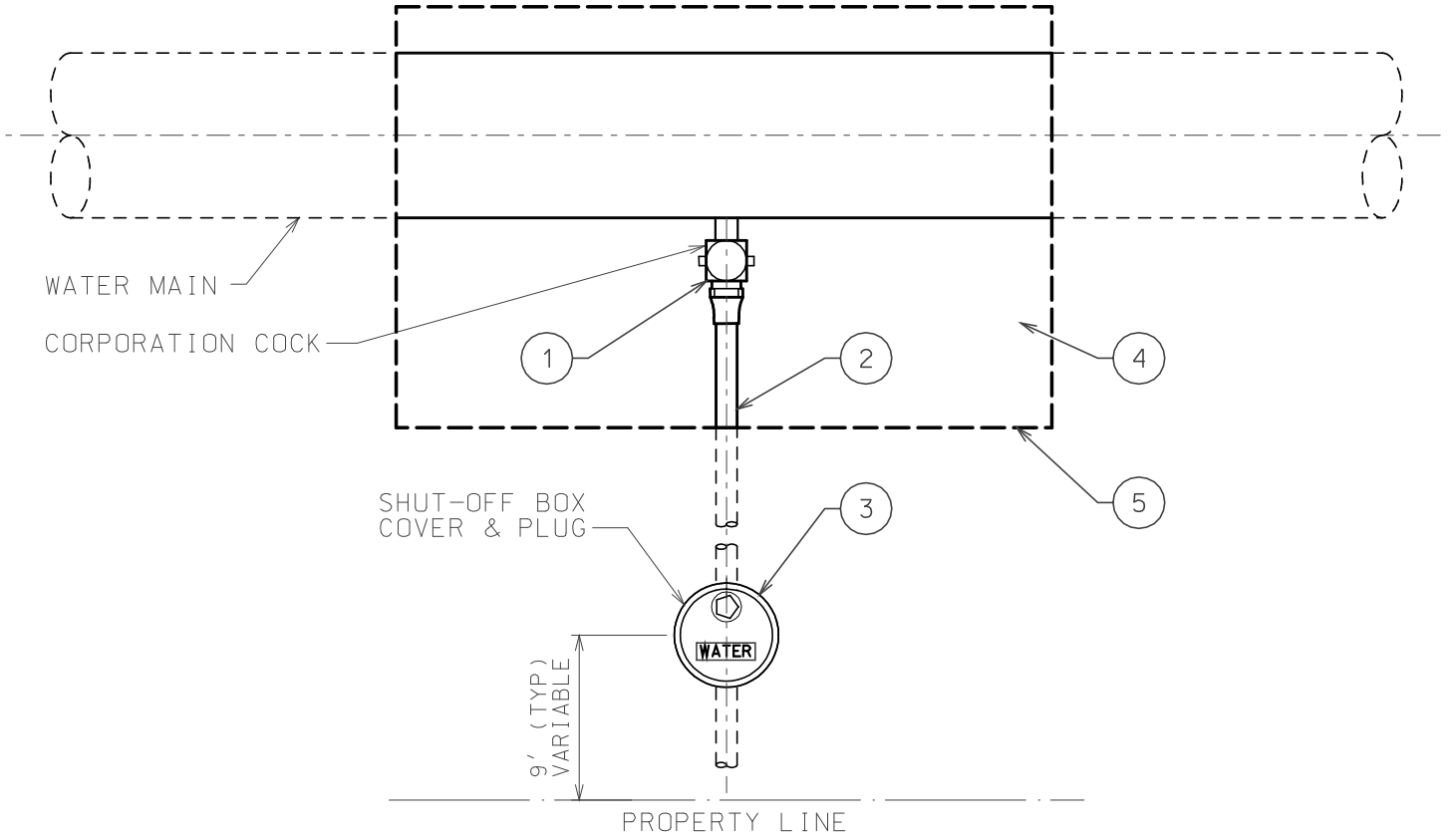
NOTES:

1. DWM WORK LIMITED TO THE FURNISHING AND INSTALLATION OF THE TAP ONLY.
2. DWM WILL PROVIDE ROUNDWAY, SHUT-OFF BOX, AND ONE METER TO BE INSTALLED BY CONTRACTOR.
3. THE WATER MAIN AND THE FIRST THREE FEET OF THE SERVICE MUST BE ENCASED IN 4 MIL POLYETHYLENE WRAP.
4. BACKFILL WITH CA-16 AND COMPACT PER DWM STANDARDS.

* REFERENCE CDOT'S "REGULATIONS FOR OPENINGS, CONSTRUCTION AND REPAIR IN THE PUBLIC WAY."

TYPICAL 1" TO 2" NEW WATER SERVICE INSTALLATION

EFFECTIVE SEPTEMBER 1, 2012



PRIVATE CONTRACTOR'S RESPONSIBILITIES

CONTACT CHIEF PLUMBING INSPECTOR (312-744-7017) TO COORDINATE WORK AND SCHEDULE AN INSPECTION. ALL WORK MUST BE INSPECTED/APPROVED PRIOR TO BACKFILL; FAILURE TO COMPLY WITH DWM REQUIREMENTS MAY INCREASE PROJECT COSTS TO VERIFY DWM STANDARDS HAVE BEEN MET.

PRIVATE CONTRACTOR IS RESPONSIBLE FOR LOCATING SERVICE TAP. TAP LOCATION MAY VARY UP TO 5-FEET FROM DWM RECORDS.

PRIVATE CONTRACTOR IS RESPONSIBLE FOR TERMINATION OF SERVICE/STUB BY LICENSED PLUMBER PER DWM STANDARD DETAILS AND OBTAINING ALL APPLICABLE PERMITS, TRACING EQUIPMENT, EXCAVATION/SHORING PER CDOT STANDARDS*, BACKFILLING/COMPACTION, ABANDONMENT OF APPURTENANCES (METER VAULT/VALVE BOX/VALVE BASIN) AND ALL RESTORATION TO CDOT STANDARDS*.

NOTES:

1. CLOSE CORPORATION COCK.
2. CUT SERVICE PIPING AND CRIMP END.
3. REMOVE VALVE BOX TO A MINIMUM OF 30-INCHES BELOW GRADE AND FILL WITH CA-16.
4. BACKFILL WITH CA-16 AND COMPACT PER DWM STANDARDS.
5. PAVEMENT/PARKWAY RESTORATION TO BE COMPLETED PER CDOT STANDARDS*.

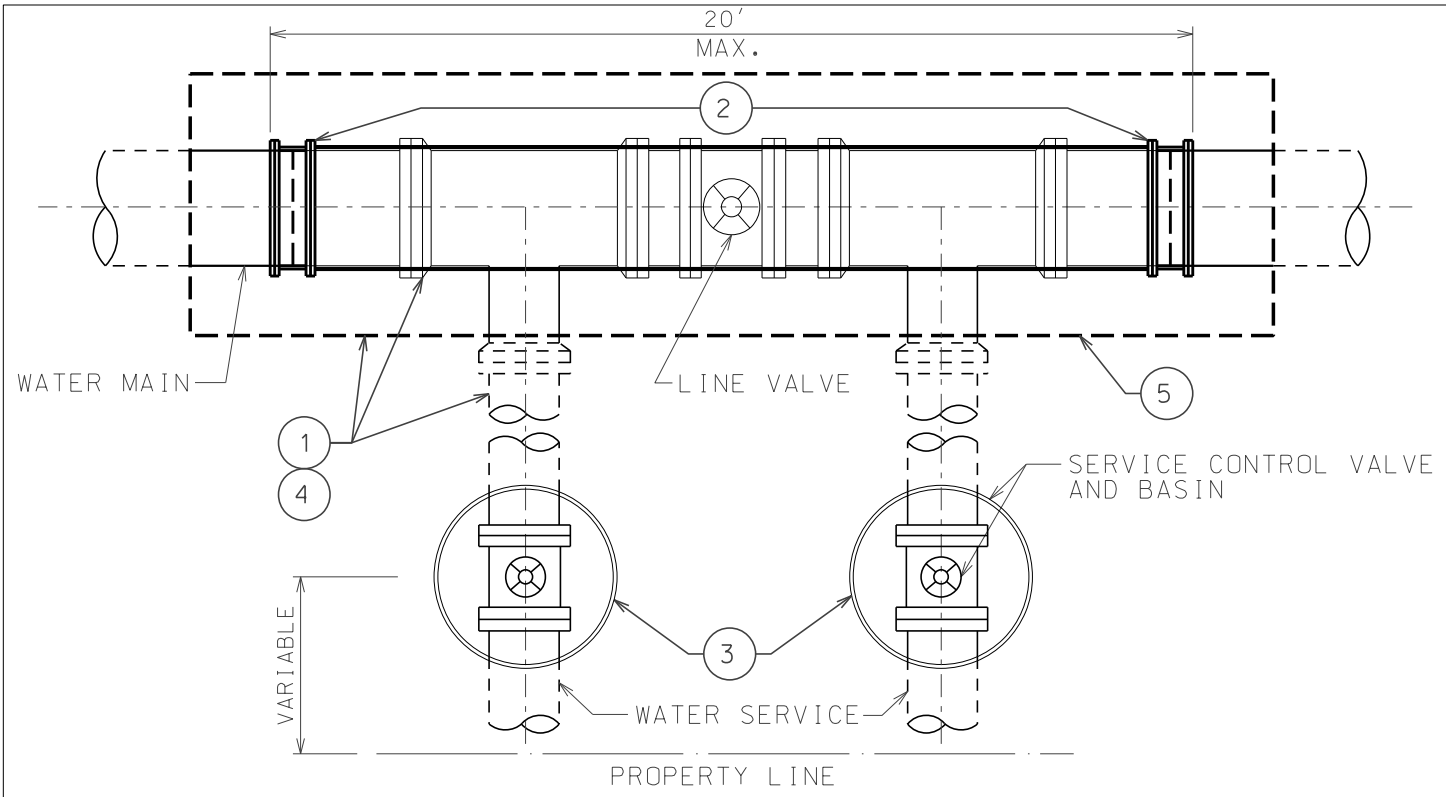
* REFERENCE CDOT'S "REGULATIONS FOR OPENINGS, CONSTRUCTION AND REPAIR IN THE PUBLIC WAY."

NOTE:

IF SERVICE CONNECTION IS A DRIVEN TAP, LEAKY TAP, OR DEFECTIVE TAP, CONTRACTOR MUST REMOVE TAP AND INSTALL A STAINLESS STEEL FULL CIRCLE BAND TYPE CLAMP (SMITH BLAIR, POWERSEAL, OR APPROVED EQUIVALENT). COORDINATE WITH PLUMBING INSPECTOR FOR WATER MAIN SHUT-DOWN. PLUMBING INSPECTOR MUST NOTIFY B.E.S. OF LOCATION OF ANY DRIVEN TAPS.

TYPICAL TERMINATION OF WATER SERVICE 2" AND SMALLER

EFFECTIVE SEPTEMBER 1, 2012



PRIVATE CONTRACTOR'S RESPONSIBILITIES

CONTACT DISTRICT SUPERINTENDENT TO COORDINATE WORK AND SCHEDULE AN ON-SITE MEETING PRIOR TO CONSTRUCTION. ALL WORK MUST HAVE FINAL INSPECTION/APPROVAL PRIOR TO BACKFILL; FAILURE TO COMPLY WITH DWM REQUIREMENTS MAY INCREASE PROJECT COSTS TO VERIFY DWM STANDARDS HAVE BEEN MET.

PRIVATE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS, TRACING EQUIPMENT, EXCAVATION/OSHA SHORING PER CDOT STANDARDS*, BACKFILLING/COMPACTION, ABANDONMENT OF APPURTENANCES (METER VAULT/VALVE BOX/VALVE BASIN) AND ALL RESTORATION TO CDOT STANDARDS*.

NOTES:

1. LOCATE SERVICE, EXCAVATE, AND SHORE PER CDOT STANDARDS.
3. REMOVE SERVICE CONTROL BASIN TO A MINIMUM OF 30" BELOW GRADE AND FILL WITH CA-16. RETURN FRAME AND LID TO DWM FOREMAN ONSITE.
4. BACKFILL EXCAVATION WITH CA-16 AND COMPACT TO DWM STANDARDS.
5. PAVEMENT/PARKWAY RESTORATION TO BE COMPLETED PER CDOT STANDARDS*.

DWM'S RESPONSIBILITIES

CONTACT PLUMBING INSPECTION (312) 744-7017 TO OBTAIN CUT & SEAL FORM PRIOR TO CONSTRUCTION. THE CUT & SEAL FORM MUST BE FULLY COMPLETED AND RETURNED TO PLUMBING INSPECTION. THE DWM FOREMAN SHALL FILL-OUT THE METER RETURN TAG(S) WITH THE FINAL READINGS, AND INSTRUCT THE CONTRACTOR TO RETURN THE METER(S) TO THE METER SHOP WITHIN 10 DAYS.

NOTE:

2. CUT AND SLEEVE THE MAIN PER DWM STANDARDS TO ELIMINATE THE SERVICE CONNECTION. REMOVE ANY LINE VALVES ASSOCIATED WITH THE SERVICE TERMINATION AND RETURN FRAME AND LID(S) TO DISTRICT YARD.

TYPICAL MATERIALS REQUIRED:

20 FEET (MAX) D.I.W.P.
POLYWRAP
(2) TRANSITION SLEEVES FOR CAST IRON PIPE OR MJ SLEEVES FOR DUCTILE IRON PIPE.

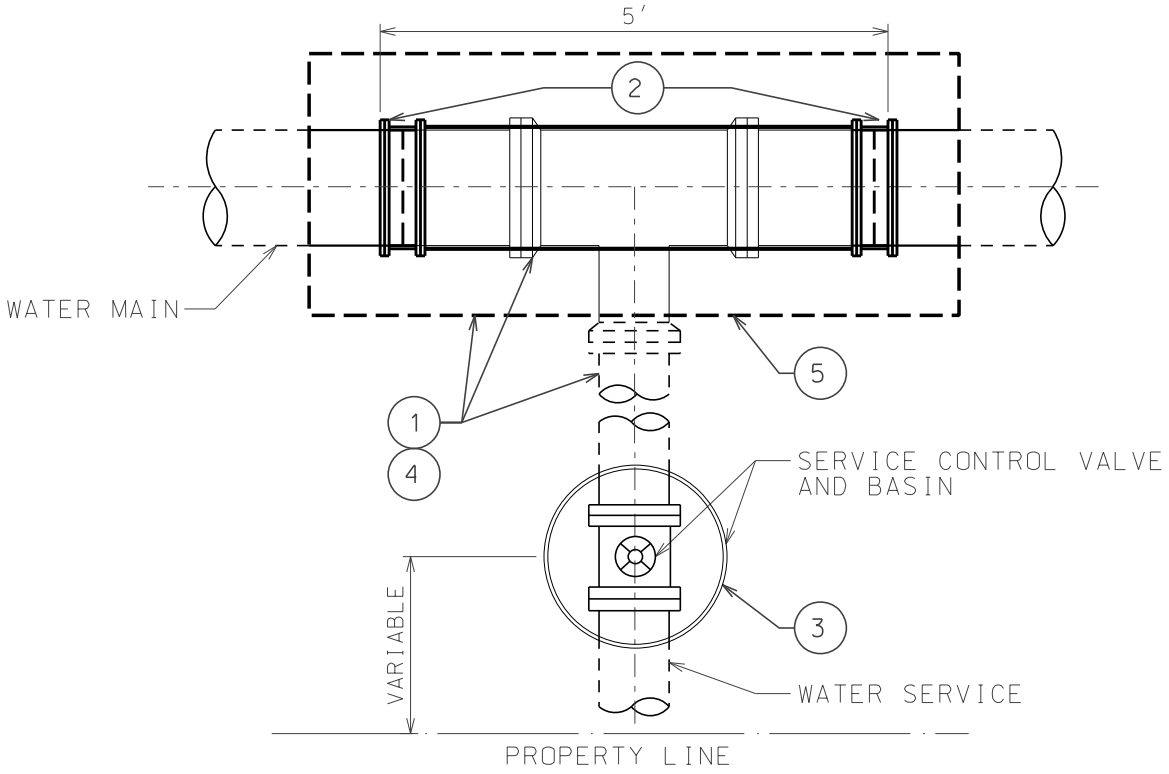
NOTE:

NO SERVICE MAY BE ABANDONED BY PLUGGING OR CAPPING THE TEE OR TAPPING SLEEVE WITHOUT PRIOR WRITTEN APPROVAL FROM BES.

* REFERENCE CDOT'S "REGULATIONS FOR OPENINGS, CONSTRUCTION AND REPAIR IN THE PUBLIC WAY."

TYPICAL DUAL/SINGLE SERVICE TERMINATION WITH LINE VALVE

EFFECTIVE SEPTEMBER 1, 2012
REVISED JUNE 22, 2017



PRIVATE CONTRACTOR'S RESPONSIBILITIES

CONTACT DISTRICT SUPERINTENDENT TO COORDINATE WORK AND SCHEDULE AN ON-SITE MEETING PRIOR TO CONSTRUCTION. ALL WORK MUST HAVE FINAL INSPECTION/APPROVAL PRIOR TO BACKFILL; FAILURE TO COMPLY WITH DWM REQUIREMENTS MAY INCREASE PROJECT COSTS TO VERIFY DWM STANDARDS HAVE BEEN MET.

PRIVATE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS, TRACING EQUIPMENT, EXCAVATION/OSHA SHORING PER CDOT STANDARDS*, BACKFILLING/COMPACTION, ABANDONMENT OF APPURTENANCES (METER VAULT/VALVE BOX/VALVE BASIN) AND ALL RESTORATION TO CDOT STANDARDS*.

NOTES:

1. LOCATE SERVICE, EXCAVATE, AND SHORE PER CDOT STANDARDS.
3. REMOVE SERVICE CONTROL BASIN TO A MINIMUM OF 30" BELOW GRADE AND FILL WITH CA-16. RETURN FRAME AND LID TO DWM FOREMAN ONSITE.
4. BACKFILL EXCAVATION WITH CA-16 AND COMPACT TO DWM STANDARDS.
5. PAVEMENT/PARKWAY RESTORATION TO BE COMPLETED PER CDOT STANDARDS*.

DWM'S RESPONSIBILITIES

CONTACT PLUMBING INSPECTION (312) 744-7017 TO OBTAIN CUT & SEAL FORM PRIOR TO CONSTRUCTION. THE CUT & SEAL FORM MUST BE FULLY COMPLETED AND RETURNED TO PLUMBING INSPECTION. THE DWM FOREMAN SHALL FILL-OUT THE METER RETURN TAG(S) WITH THE FINAL READINGS, AND INSTRUCT THE CONTRACTOR TO RETURN THE METER(S) TO THE METER SHOP WITHIN 10 DAYS.

NOTE:

2. CUT AND SLEEVE THE MAIN PER DWM STANDARDS TO ELIMINATE THE SERVICE CONNECTION.

TYPICAL MATERIALS REQUIRED:

5 FEET (MIN) D.I.W.P.
POLYWRAP
(2) TRANSITION SLEEVES FOR CAST IRON PIPE OR MJ SLEEVES FOR DUCTILE IRON PIPE.

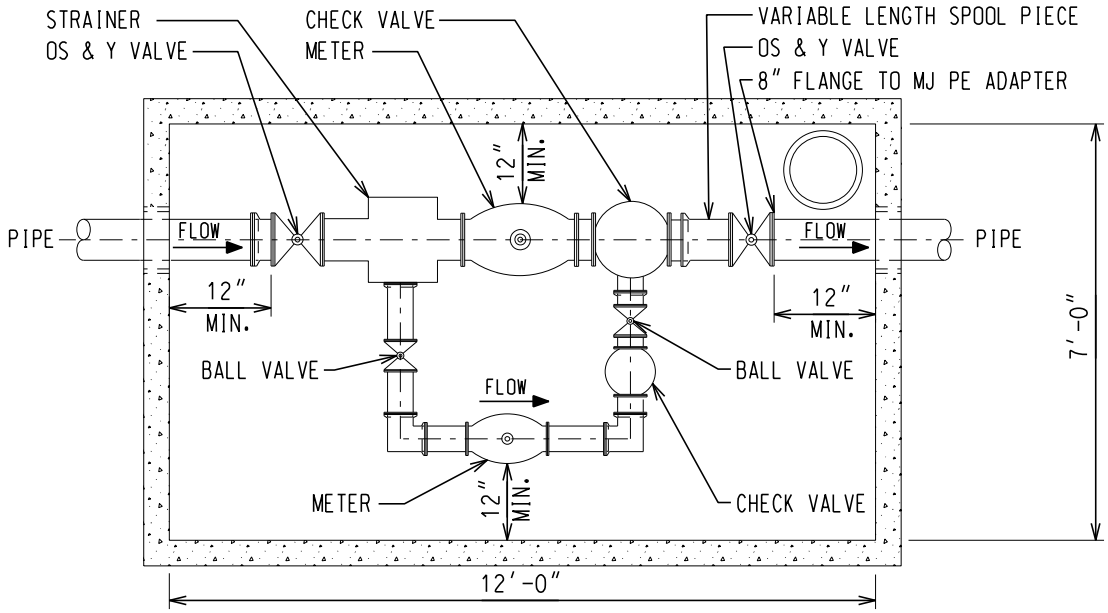
NOTE:

NO SERVICE MAY BE ABANDONED BY PLUGGING OR CAPPING THE TEE OR TAPPING SLEEVE WITHOUT PRIOR WRITTEN APPROVAL FROM BES.

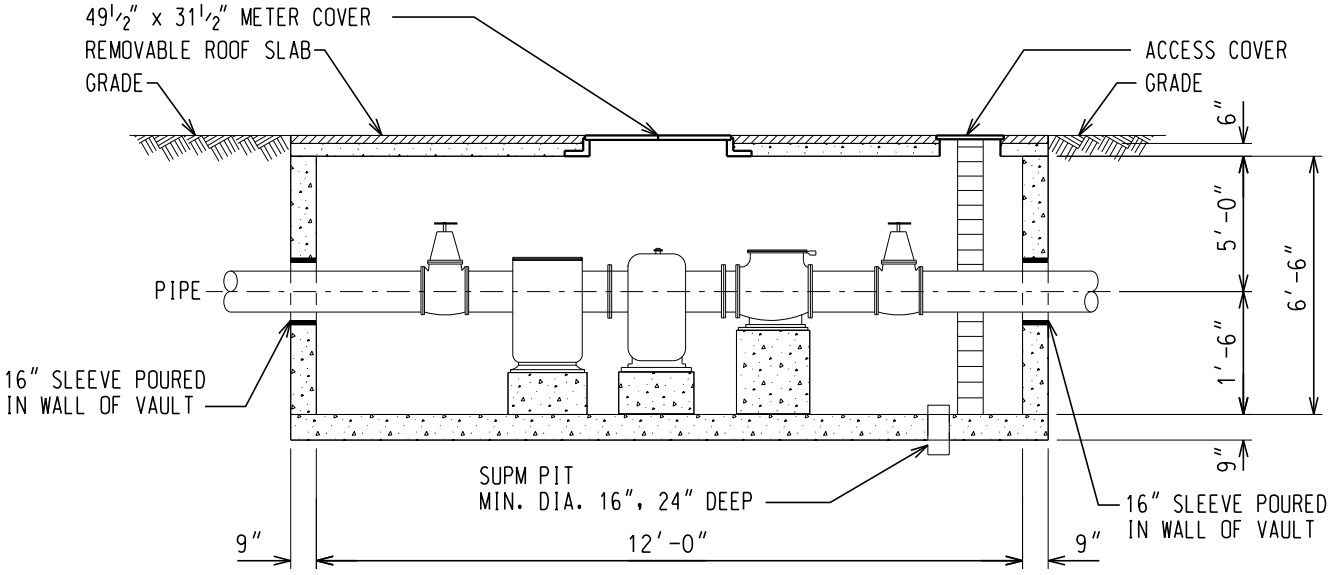
* REFERENCE CDOT'S "REGULATIONS FOR OPENINGS, CONSTRUCTION AND REPAIR IN THE PUBLIC WAY."

SERVICE TERMINATION 3" AND LARGER

EFFECTIVE SEPTEMBER 1, 2012
REVISED JUNE 22, 2017



PLAN VIEW

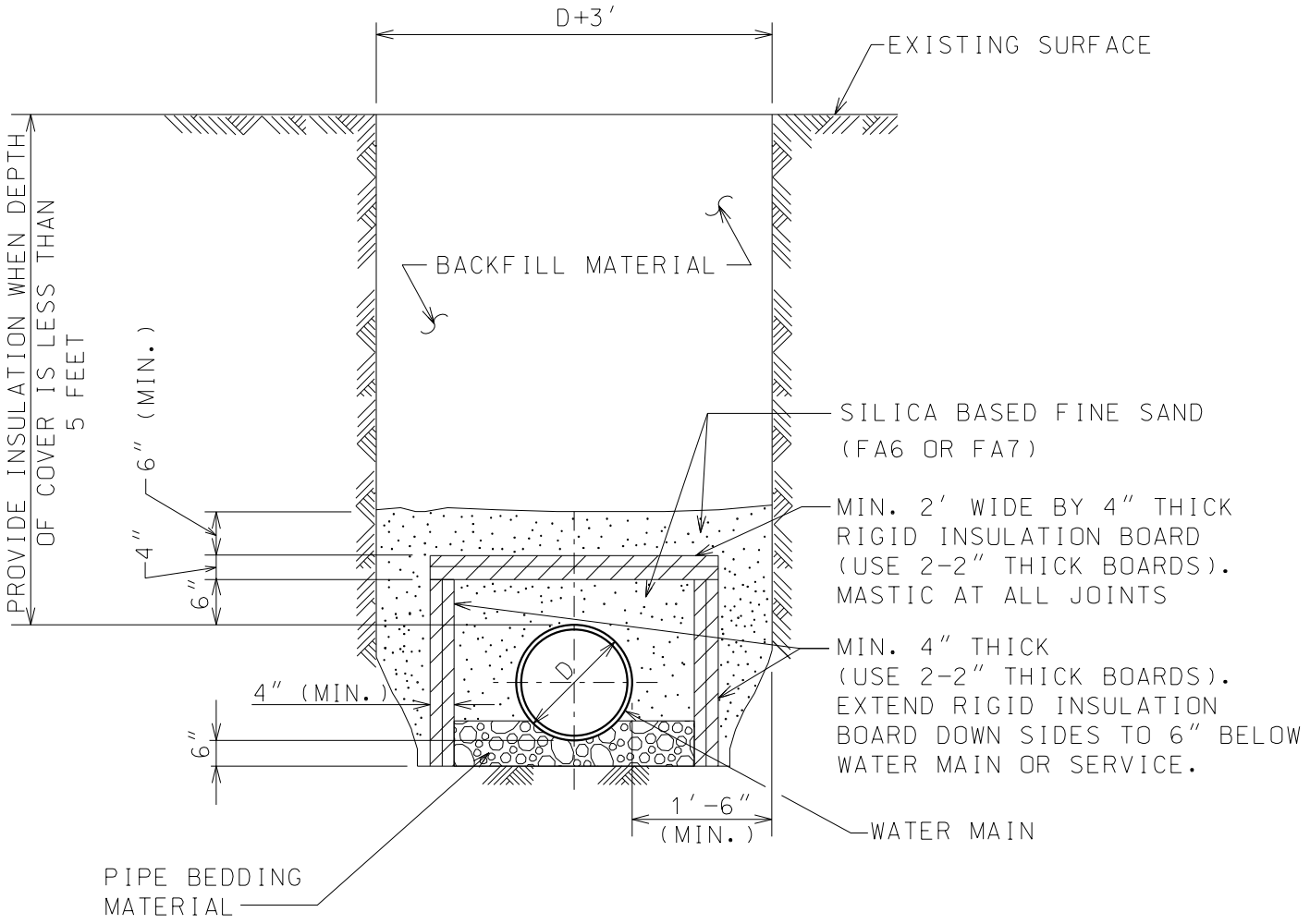


SECTION

1. ALL PIPES AND FITTINGS SHALL BE FLANGED AND SHALL CONFORM TO U.S.A. STANDARDS A 21.51-1965 (A.W.W.A.C. 151-65) AND SHALL HAVE ON OUTSIDE BITUMINOUS COATING OF EITHER COAL TAR OR ASPHALT BASE AND A CEMENT MORTAR LINING CONFORMING TO U.S.A. STANDARD A 21.4-64 (A.W.W.A.C. 104-53).
2. ALL METER VAULT COVERS AND LIDS SHALL BE HEAVY DUTY. 2 PIECES SHALL BE PLACED DIRECTLY ABOVE THE COMPOUND METER. NO CENTER BRACE SHALL BE PERMITTED IN COVER FRAME. VAULT COVER SHALL MEASURE 49½" x 31½" AND COMPLY TO R6663NP NEEHAH OR EQUAL FOR METER READER ACCESS. A 1'-11" COVER MUST BE INSTALLED IN CORNER OF VAULT ACCESS COVER TO CONFORM TO R1889 NEEHAH OR EQUAL. LADDER TO BE DIRECTLY UNDER COVER.
3. FOR BLOCK CONSTRUCTION ON IRON RUNG LADDER ANCHORED TO WALL WITH STEPS 16" MAX. ON CENTER. FOR PRECAST VAULTS USE CAST IRON STEPS NEEHAH 91980 OR EQUAL. T BOLTING TO BE INSTALLED IN VERTICAL AT 16" CENTERS. A SUMP PIT SHALL BE INSTALLED NEAR BUT NOT UNDER LADDER.
4. NO MECHANICAL JOINT FITTING ALLOWED IN VAULTS. SUMP TO BE LOCATED NEAR ACCESS LADDER BUT NOT UNDER LADDER.
5. METER AND VALVES ETC. TO BE CENTERED IN VAULT.
6. CONSTRUCTION OF METER VAULT SHALL BE SOLID CONCRETE BLOCK AND/OR PRECAST CONCRETE OR POURED CONCRETE CONSTRUCTION TO SUSTAIN VEHICULAR TRAFFIC.

6" OR 8" COMPOUND BY PASS METER VAULT

(HERSEY OR METRON)



NOTES:

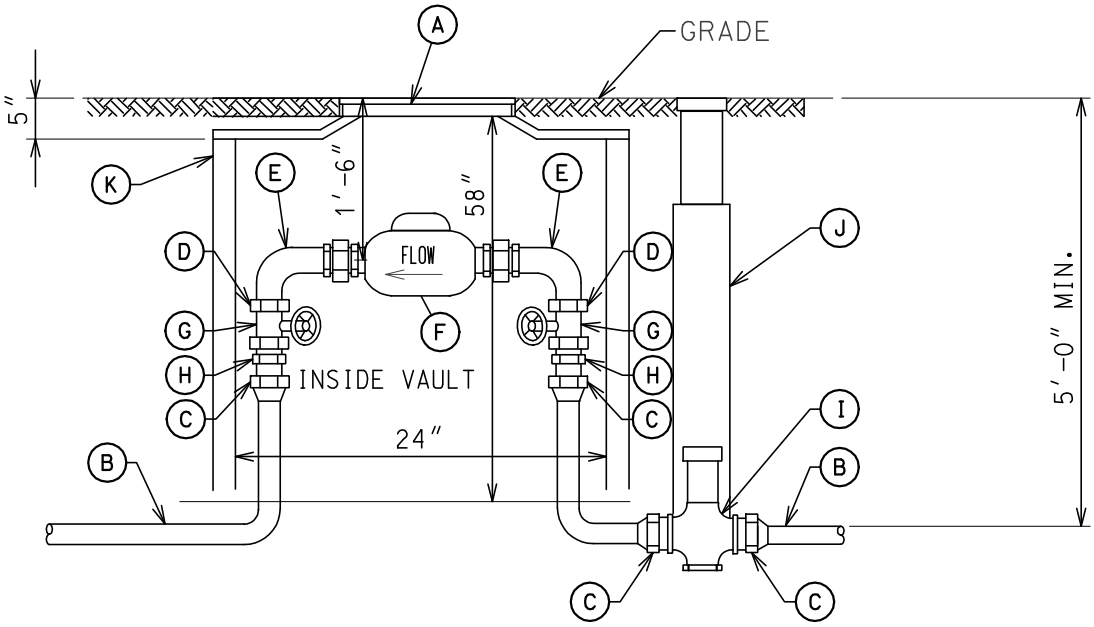
1. RIGID INSULATION BOARD TO BE CLOSED CELL, EXTRUDED POLYSTYRENE FOAM MEETING ASTM 578, TYPE VI, 40 PSI COMPRESSING STRENGTH (ASTM D1621) 0.1% MAX. WATER ABSORPTION (ASTM C272).

2. BACKFILL MATERIAL AROUND RIGID INSULATION BOARD SHALL BE SILICA BASED FINE SAND (FA6 OR FA7), FREE FROM ROOTS, ORGANIC MATTER, LEAVES OR OTHER INJURIOUS MATERIALS.

3. OVERLAP ALL RIGID INSULATION BOARD JOINTS.

4. INSTALL RIGID INSULATION BOARD AS INDICATED ON PLANS OR AS APPROVED BY COMMISSIONER.

WATER MAIN TRENCH INSULATION DETAIL

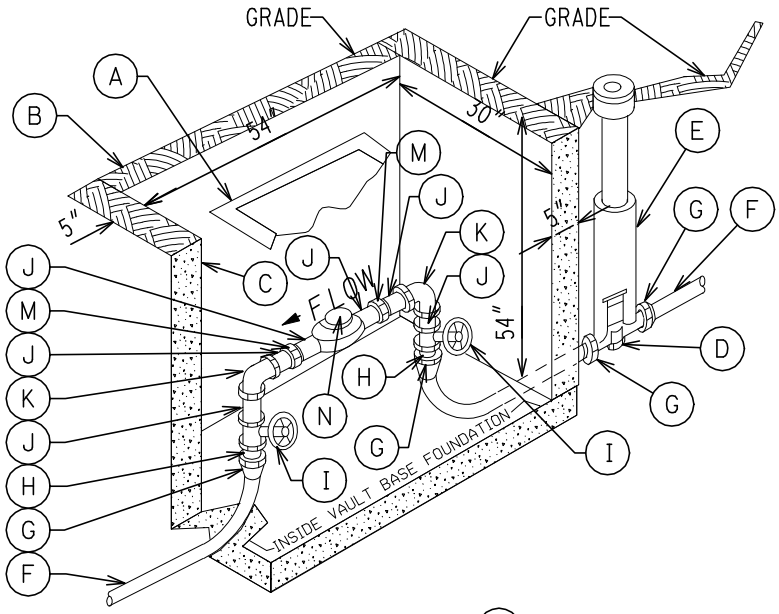


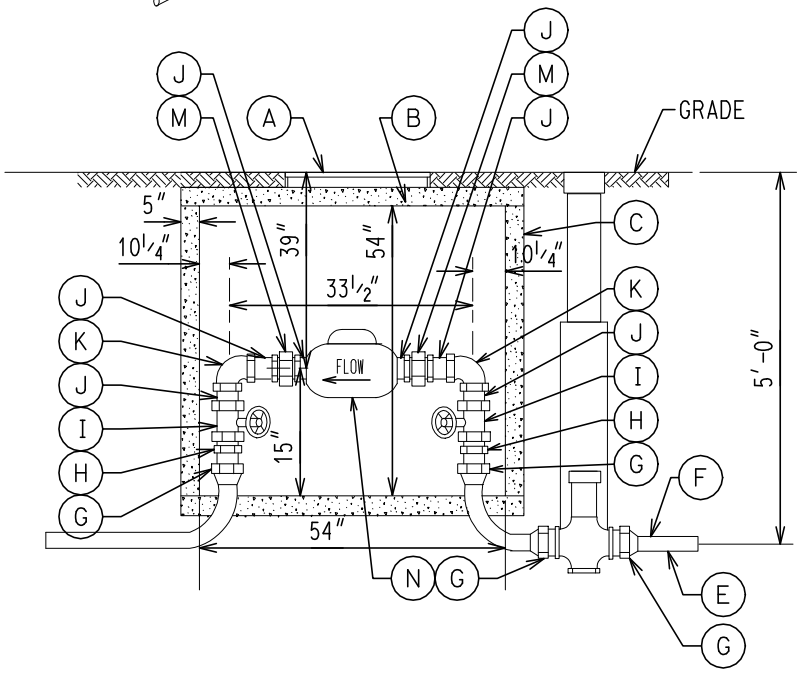
1″ METER VAULT
VAULT CODE 11-8-200

A	FRAME AND LID (NEENAH R1911C)
B	1″ TYPE K COPPER PIPE
C	FEMALE FLARED FITTING
D	1″x ¾″ BRASS BUSHING
E	¾″ BENT METER COUPLING
F	METER
G	FULL PORT CONTROL VALVE
H	MALE I.P.S. TO FLARED ADAPTER
I	1″ ROUNDWAY
J	SHUT-OFF BOX
K	EXTRA HEAVY SALT GLAZED VITRIFIED CLAY TILE PIPE

NOTE:
1½″ AND 2″ METER VAULT CALL
FOR 39″ COVER. SEE NEXT PAGE.

NEW COPPER 1″ WATER SERVICE
STANDARD METER VAULT



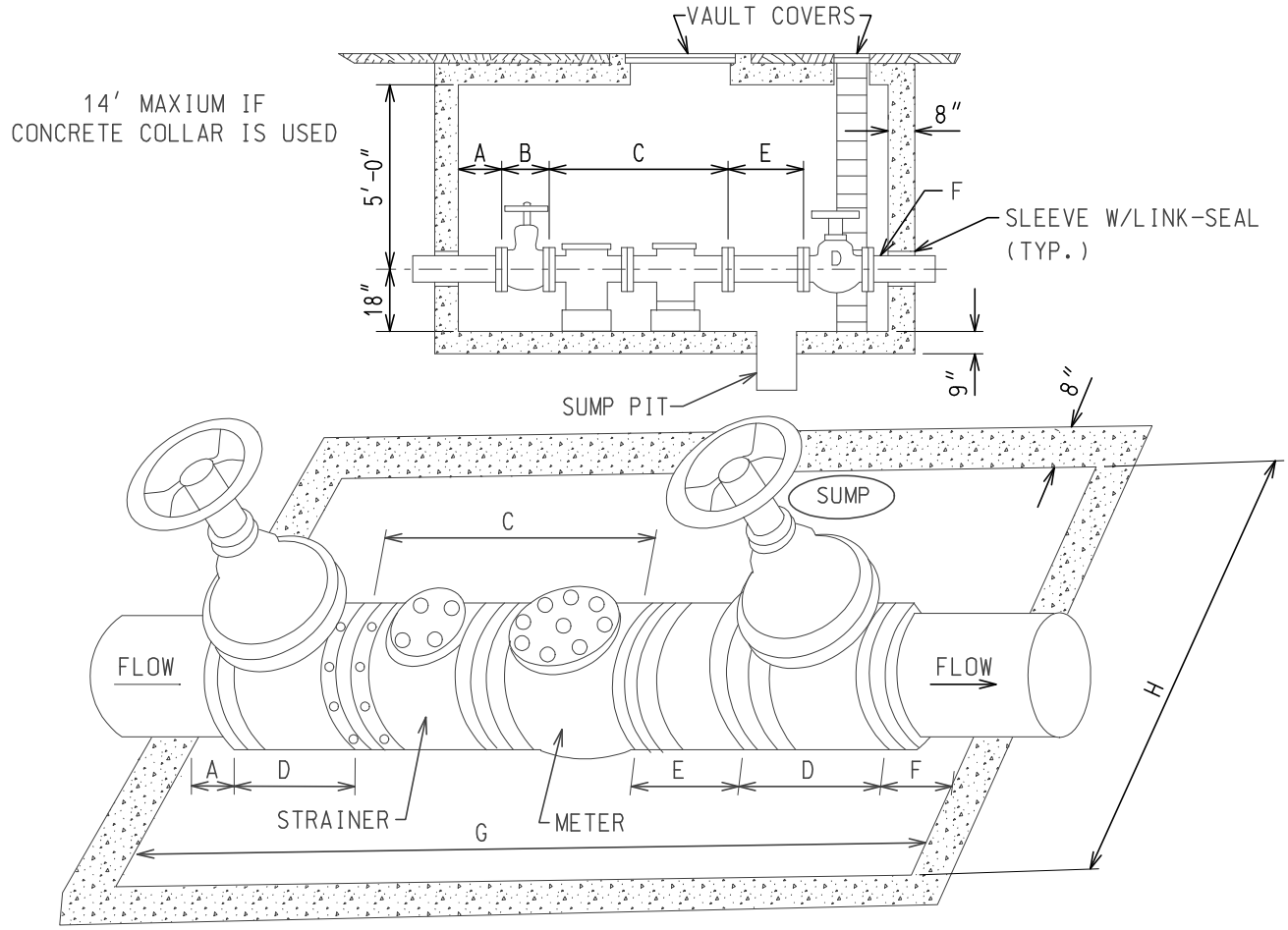


A	COVER 25¼"x 25¼" (NEENAH, R6662JP OR EQUAL) CENTERED OVER METER
B	PRECAST CONCRETE TOP
C	SOLID CONCRETE BLOCK OR PRECAST CONCRETE
D	ROUNDWAY
E	SHUT-OFF BOX
F	TYPE K COPPER
G	F.M. FLARED FITTING
H	MALE I.P.T. TO FLARED
I	FULL PORT CONTROL VALVE
J	BRASS NIP.
K	BRASS ELL.
M	BRASS UNION
N	METER

NEW COPPER 1½" & 2" WATER SERVICES

STANDARD METER VAULT

SIZE	A	B	C	D	E	F	G	H
3″	1′-0″	1′-2″	2′-6″	1′-2″	SPOOL PIECE VARIES	1′-0″	8′-0″	6′-0″
4″	1′-0″	1′-2″	2′-6″	1′-2″	SPOOL PIECE VARIES	1′-0″	8′-0″	6′-0″
6″	1′-0″	1′-2″	2′-6″	1′-2″	SPOOL PIECE VARIES	1′-0″	10′-0″	6′-0″
8″	1′-0″	1′-2″	2′-6″	1′-2″	SPOOL PIECE VARIES	1′-0″	10′-0″	6′-0″
12″	1′-0″	1′-2″	2′-6″	1′-2″	SPOOL PIECE VARIES	1′-0″	10′-0″	6′-0″

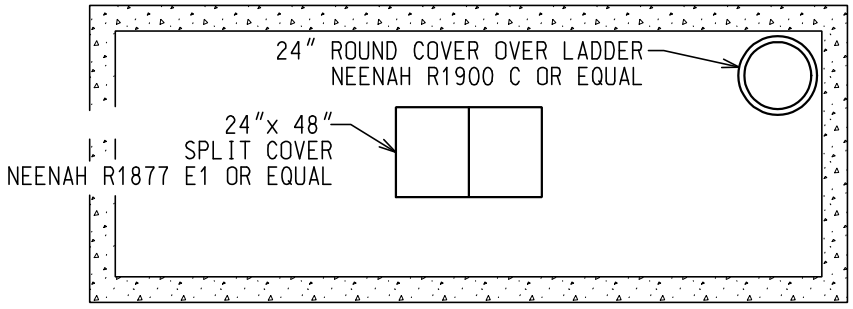


1″ TAPS REQUIRED UPSTREAM AND DOWNSTREAM. ALL PIPES AND FITTINGS SHALL BE FLANGED AND SHALL CONFORM TO U.S.A. STANDARD A21.51-1965 (A.W.W.A.C. 151-65) AND SHALL HAVE ON OUTSIDE BITUMINOUS COATING OF EITHER COAL TAR OR ASPHALT BASE AND A CEMENT MORTAR LINING CONFORMING TO U.S.A. STANDARD A21.4-64 (A.W.W.A.C. 104-53).

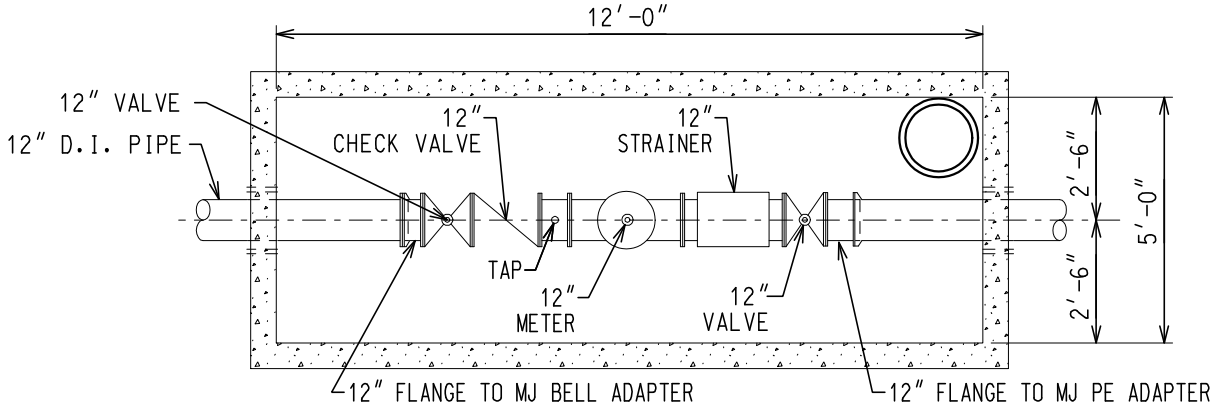
ALL METER VAULT COVERS AND LIDS SHALL BE HEAVY DUTY. 2 PIECE SHALL BE PLACED DIRECTLY ABOVE THE COMPOUND METER BYPASS. NO CENTER BRACE SHALL BE PERMITTED IN COVER FRAME. VAULT COVER SHALL MEASURE $49\frac{1}{2}$″ x $31\frac{1}{2}$″ AND COMPLY TO R6663NP NEENAH OR EQUAL.
FOR METER READER ACCESS A 1′-11″ COVER MUST BE INSTALLED IN CORNER OF VAULT ACCESS COVER TO CONFORM TO R1889 NEENAH OR EQUAL. LADDER TO BE DIRECTLY UNDERCOVER.

FOR BLOCK CONSTRUCTION ON IRON RUNG LADDER ANCHORED TO WALL WITH STEPS 16″ MAX. ON CENTER. FOR PRE-CAST VAULTS USE CAST IRON STEPS R1980-T. BOLTING TO BE INSTALLED IN VERTICAL AT 16″ CENTERS. A SUMP PIT SHALL BE INSTALLED NEAR BUT NOT UNDER LADDER. NO MECHANICAL JOINT FITTING ALLOWED IN VAULT. BLOCK SUMP TO BE LOCATED NEAR ACCESS LADDER, BUT NOT UNDER LADDER. METER AND VAULTS ETC. TO BE CENTERED IN VAULT.

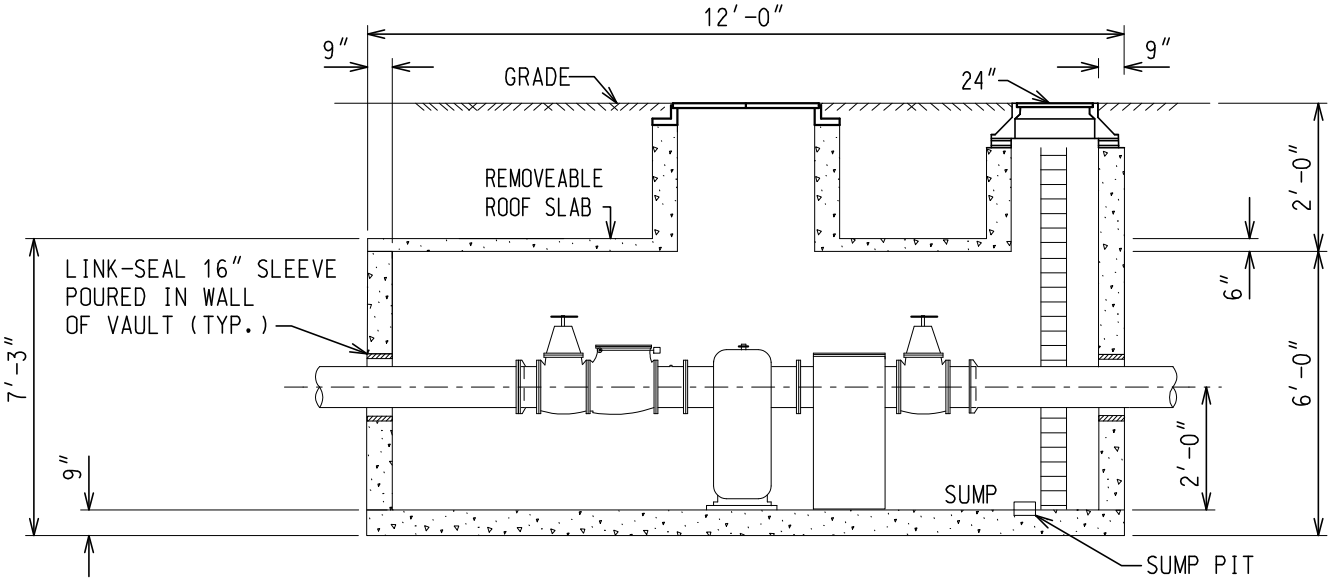
3″, 4″, 6″, 8″ & 12″ METER VAULTS



PLAN VIEW ABOVE SURFACE



PLAN VIEW IN GROUND



SECTION VIEW IN GROUND

NOTES:

1. ALL CONCRETE STRUCTURES SHALL BE WATER TIGHT, THE CONTRACTOR WILL BE REQUIRED TO TAKE SUCH MEANS NECESSARY TO CORRECT ANY AND ALL LEAKAGE THRU FLOORS OR WALLS OF STRUCTURE, WITHOUT ADDITIONAL COMPENSATION.
2. WALLS MAY BE CONSTRUCTED OF 8" CONCRETE BLOCK ON A CONCRETE FLOOR SLABS MAY BE PRECAST CONCRETE-OR THEY BE PRECAST CONCRETE REINFORCED AS REQUIRED.
3. METER AND PIPING TO BE SET BEFORE INSTALLING ROOF SLAB.
4. ALL METER VAULTS SHALL BE FURNISHED WITH GALVANIZED OR ALUMINUM LADDERS. ALL OPENINGS IN METER VAULTS SHALL BE SEALED WITH 'NO SHRINK' GROUT.

12" METER VAULT WITH CHECK VALVE

REV:04.07

TYPICAL METER INSTALLATION FOR 1" WATER SERVICE WITH LAWN HYDRANT AND BLACKFLOW PREVENTOR

TO PROTECT WATER SYSTEM FROM FREEZING

1. SHUTOFF WATER AT ROUNDWAY
2. REMOVE AND STORE RPZ AND KEEP FROM FREEZING.
3. OPEN LAWN HYDRANT AND LOOSEN METER NUT ON HOUSE SIDE OF METER
4. BLOWOUT WATER LINES FROM RPZ TO METER AND FROM RPZ TO LAWN HYDRANT.
5. IN SPRING REINSTALL RPZ AND ALSO HAVE RPZ TESTED BY LICENSED PERSONEL WITH A PERMIT FROM WATER DEPT. IN CITY HALL.
6. EACH RPZ MUST BE IDENTIFIED OR NUMBERED SO THAT RPZ WILL BE REINSTALLED IN THE SAME LOCATION AT ALL TIMES.
7. EACH LAWN HYDT. (HOSE CONNECTION) MUST BE MARKED "NON POTABLE WATER DO NOT DRINK".

A	FRAME AND LID (NEENAH R1911C)
B	1" TYPE K COPPER PIPE
C	FEMALE FLARED FITTING
D	1"x ¾" BRASS BUSHING
E	¾" BENT METER COUPLING
F	METER
G	FULL PORT CONTROL VALVE
H	MALE I.P.S. TO FLARED ADAPTER
I	1" ROUNDWAY
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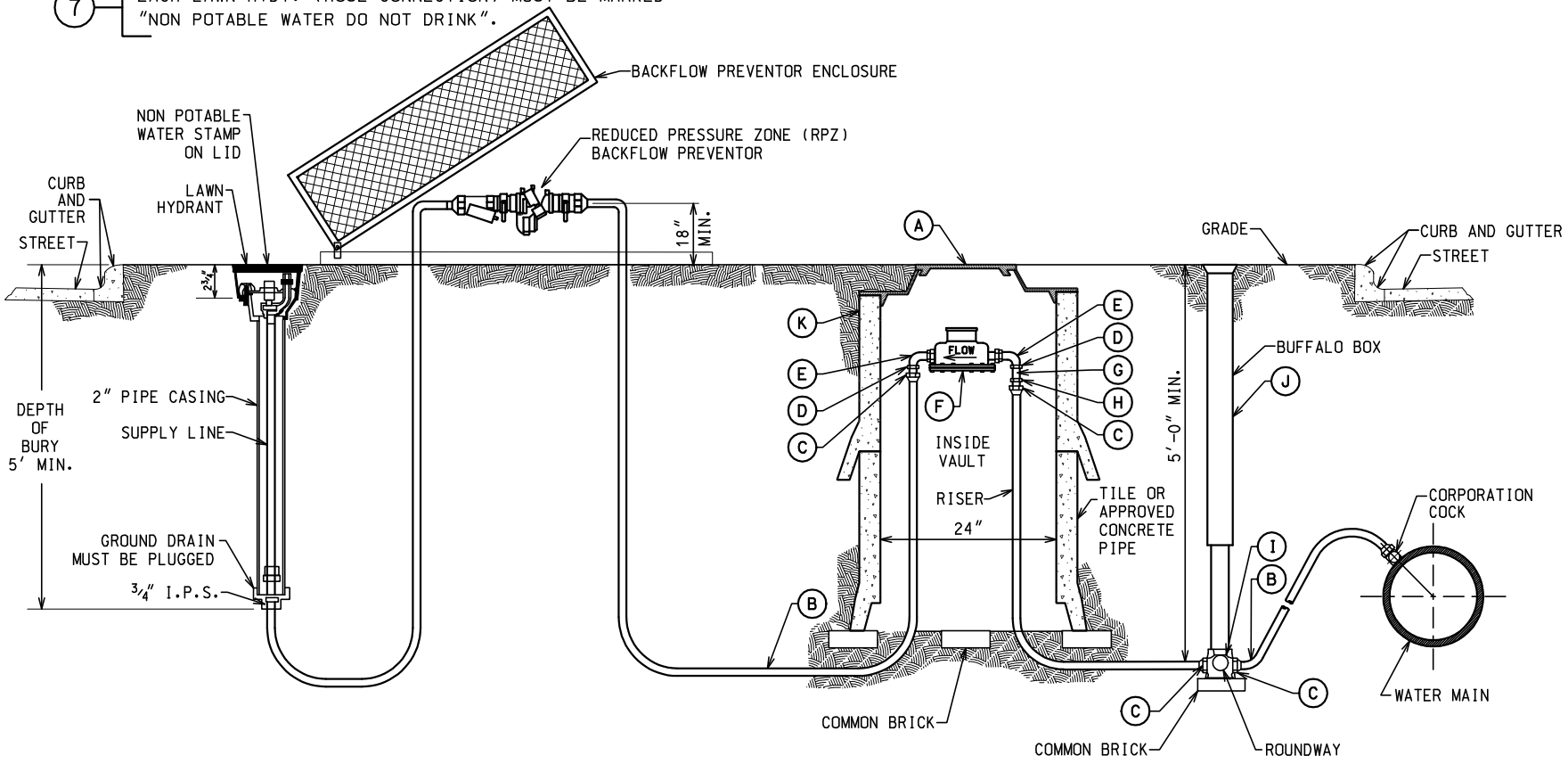
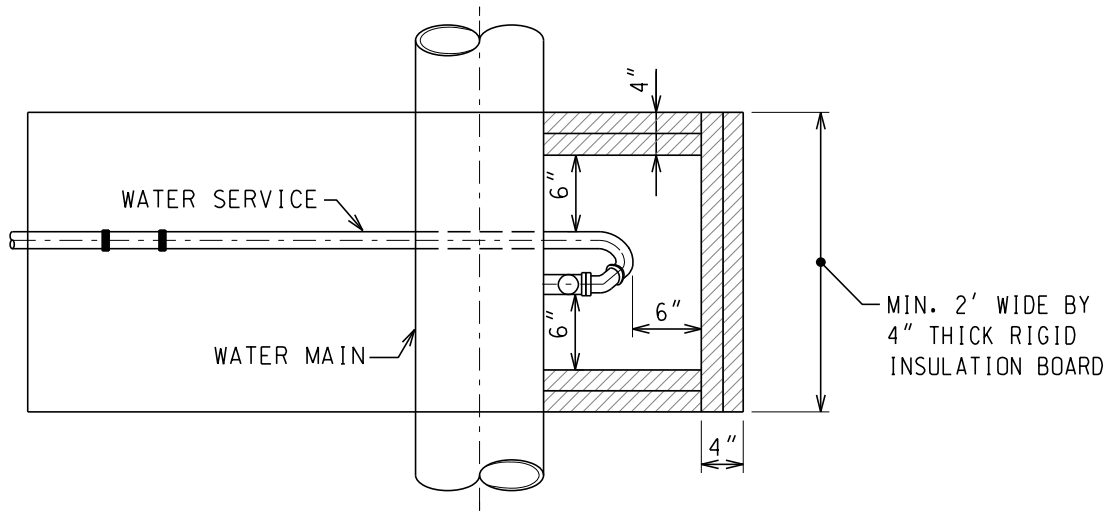
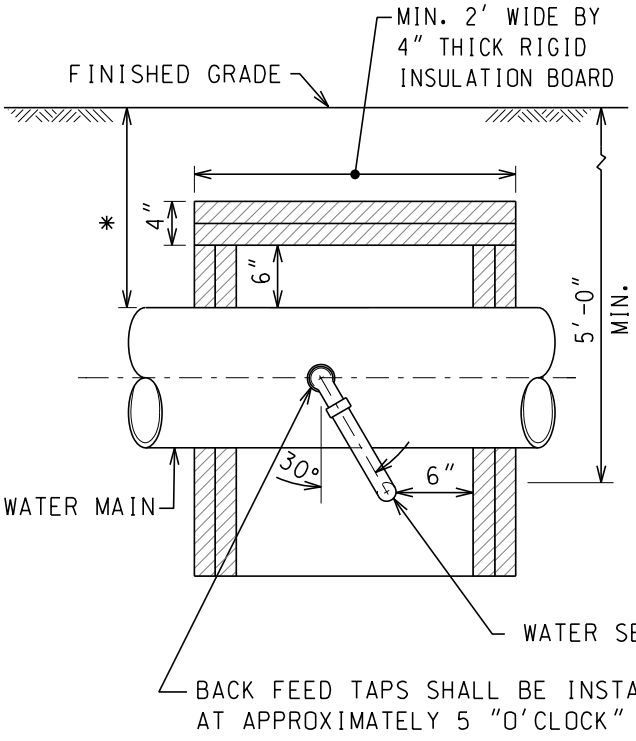
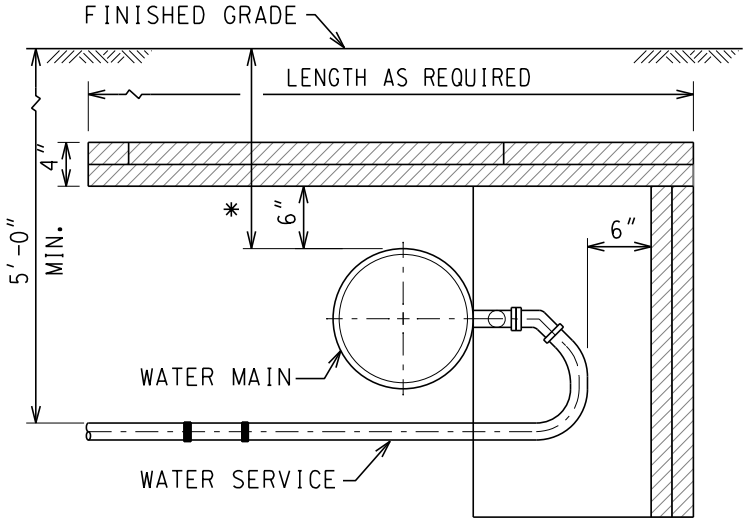




TOP VIEW



FRONT VIEW



SIDE VIEW

*DEPTH AS DIRECTED BY COMMISSIONER.

NOTES:

1. BACKFILL MATERIAL AROUND RIGID INSULATION BOARD SHALL BE SILICA BASED FINE SAND (FA6 OR FA7), FREE FROM ROOTS, ORGANIC MATTER, LEAVES OR OTHER INJURIOUS MATERIALS.

2. OVERLAP ALL RIGID INSULATION BOARD JOINTS.

3. RIGID INSULATION BOARD TO BE CLOSED CELL, EXTRUDED POLYSTYRENE FOAM MEETING ASTM 578, TYPE VI, 40 PSI COMPRESSING STRENGTH (ASTM D1621) 0.1% MAX. WATER ABSORPTION (ASTM C272).

4. INSTALL RIGID INSULATION BOARD AS INDICATED ON PLANS OR AS APPROVED BY COMMISSIONER.

SERVICE PIPE INSULATION DETAILS