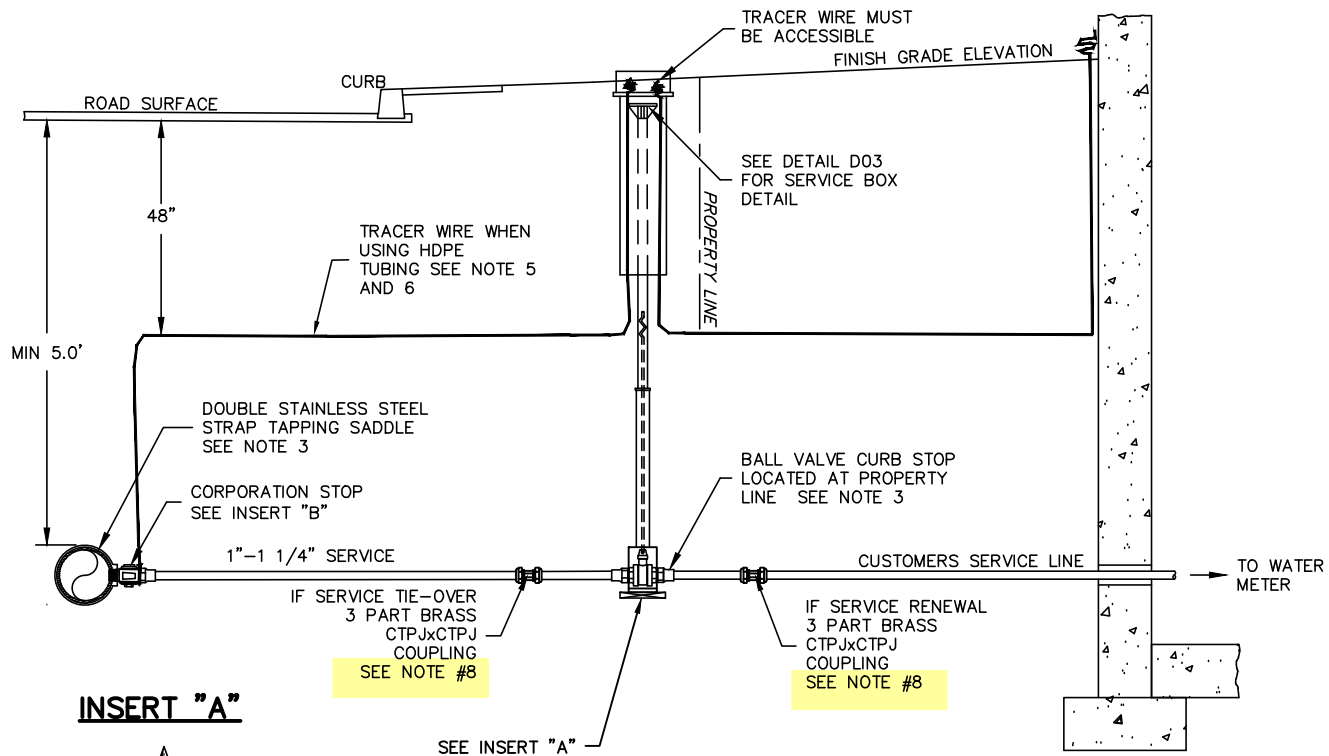


## STANDARD DETAILS LIST

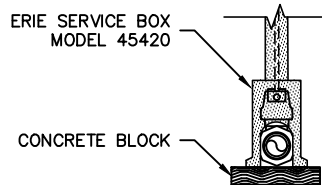
M= Mains, D= Domestic, F= Fire Service, L= Irrigation, T= Temporary, S= Special Detail

D01	Typical	1" - 1 1/4" Service & Valve Box Installation
D02	Typical	1 1/2" - 2" Service & Valve Box Installation
D03	Typical	Service Box in Paved Areas
D04	Typical	1" CT Service, 5/8", 3/4", 1" Meter Service
D05.1	Typical	1" HDPE Service, 5/8" Meter Service Through Floor
D05.2	Typical	1" HDPE Service, 5/8" Meter Service Through Wall
D06	Typical	1 1/4" Service, 5/8", 3/4", 1" Meter Service Through Floor
D07	Typical	1 1/4" Service, 5/8", 3/4", 1" Meter Service Through Wall
D08	Typical	1 1/2" Service, 5/8", 3/4", 1" Meter Service Through Floor
D09	Typical	1 1/2" Service, 5/8", 3/4", 1" Meter Service Through Wall
D10	Typical	2" Service, 5/8", 3/4", 1" Meter Service Through Floor
D11	Typical	2" Service 5/8", 3/4", 1" Meter Through Wall
D12	Typical	2" Service, with Back Flow W/ 5/8", 3/4", 1" Meter Service Through Floor
D13	Typical	2" Service, with Back Flow w/ 5/8", 3/4" or 1" Meter Service Through Wall
D14	Typical	Has been removed no longer needed
D15	Typical	Commercial Service Tapped Off Fire Service: 2" or Smaller
D16	Typical	Residential Service Tapped Off Fire Service: 1" to 2"
D17	Typical	Commercial Service Tapped Off Fire Service: 4" or Larger
D18	Typical	1 1/2" & 2" Positive Displ. Meter - Combined Fire & Domestic Service Entrance Detail
D19	Typical	2" TRU/FLO Compound Meter - Combined Fire & Domestic Service Entrance Detail
D20	Typical	3 Inch Meter
D21	Typical	4 Inch Meter
D22	Typical	Meter Pit: 18" Diameter Coil Type for 5/8" and 3/4" Meter
F01	Typical	Fire Service Connection: 4" or Larger Through Floor
F02	Typical	Fire Service Connection: 4" or Larger Through Wall
F03	Typical	Fire Service Connection: 1" CT
F04	Typical	Fire Service Connection: 1 1/2" and 2" HDPE Through Floor
F05	Typical	Fire Service Connection: 1 1/2" and 2" HDPE Through Wall
L01	Typical	Irrigation: 1" Setup Options
L02	Typical	Irrigation: Shallow 2" Meter Pit
L03	Typical	Irrigation: 1 1/2" Above Ground Meter Vault
L04	Typical	Irrigation: 2" Above Ground Meter Vault
M01	Typical	Utility Separation
M02	Typical	Trench
M03	Typical	1" Release Valve Installation on Ductile Iron
M04	Typical	2" Release Valve Installation on End of 2" Main
M05	Typical	2" Release Valve Installation on Ductile Iron
M06	Typical	1" Release Valve Installation on PVC
M07	Typical	2" Release Valve Installation on PVC
M08	Typical	Tee Installation
M09	Typical	Tee Installation on Existing Main
M10	Typical	Thrust Block Behind Fitting installation
M11	Typical	End of Main Installation with Gate Valve
M12	Typical	End of Main Installation without Gate Valve
M13	Typical	End of Main Installation with Reducer
M14	Typical	Valve Box
M15	Typical	Hydrant Installation
M16	Typical	Catch Basin Insulation
M17	Typical	Storm Drain / Water Main Parallel Runs - Elevation View
M18	Typical	Storm Drain / Water Main Intersecting Runs - Elevation View
M19	Typical	Insulation for Less Than 4'-0" of Cover
M20	Typical	Large Service and/or Tapping Sleeve

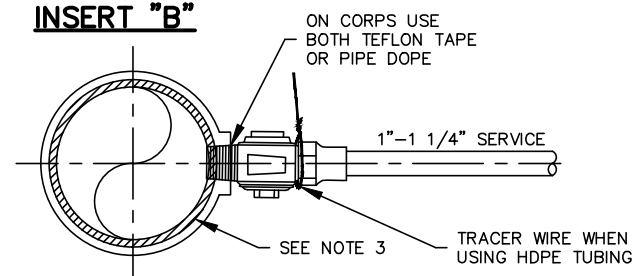
T01	<i>Typical</i>	Temporary Construction Meter	
T02	<i>Typical</i>	Temporary Main Fed from Hydrant	
T03	<i>Typical</i>	Temporary Fire Dept. Connection	
T04	<i>Typical</i>	Temporary Pedestrian/Roadway Crossing	
		Highlighted Items Revised in 2026	



### INSERT "A"



### INSERT "B"



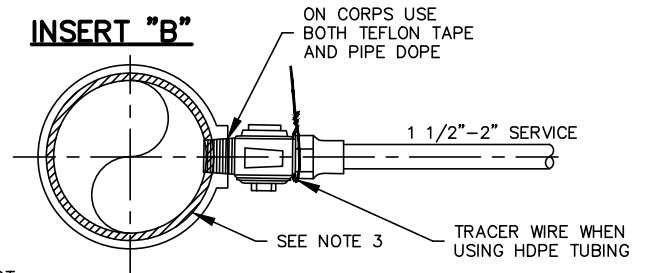
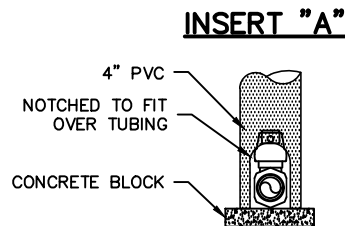
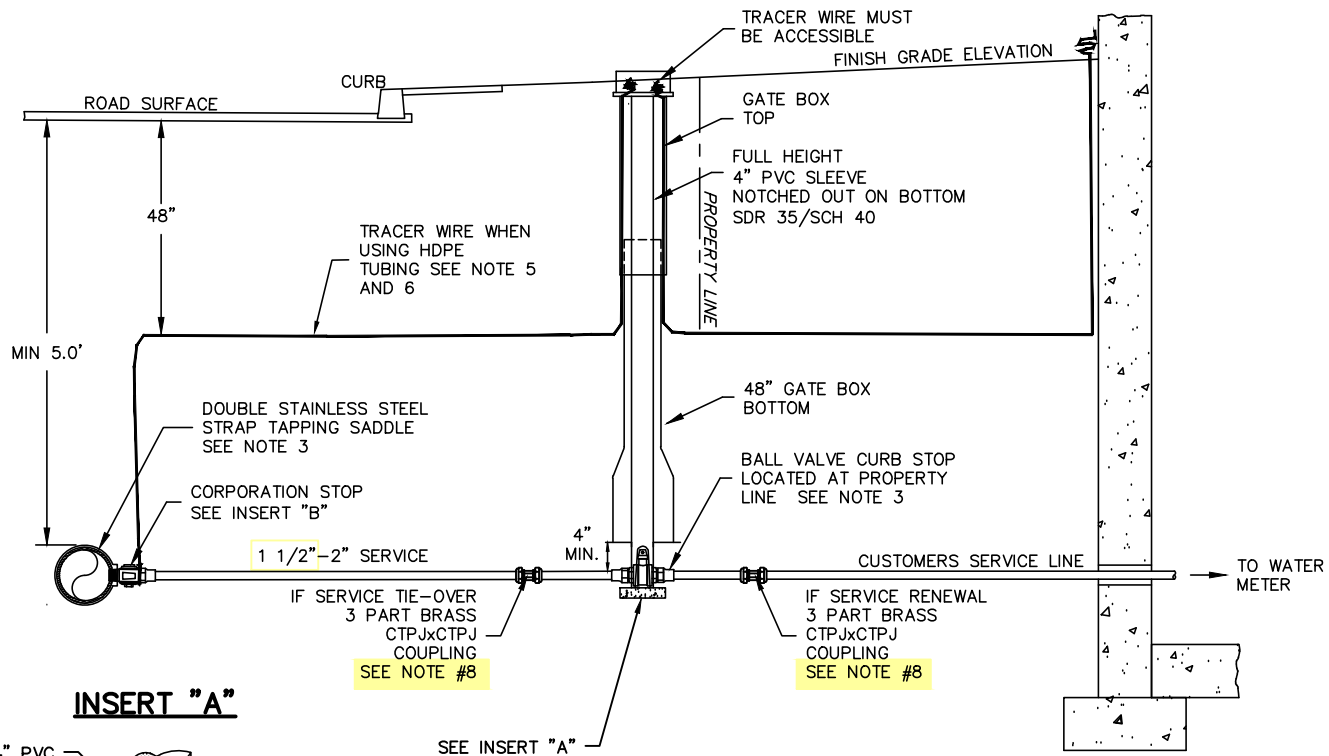
#### NOTES:

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
3. IF WATER MAIN IS PVC OR TRANSITE, A DOUBLE STAINLESS STEEL STRAP TAPPING SADDLE MUST BE USED TO CONNECT THE CORPORATION TO THE WATER MAIN. CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
4. IF TAPPING A FIRE SERVICE, THEN SEE DETAIL D15 AND D16.
5. USE 10-GAUGE SOLID-CORE COATED BLUE TRACER WIRE PER P.W.W. TECHNICAL SPECIFICATIONS. SPLICES REQUIRE SNAKEBITE LSC1030C LOCKING CONNECTORS OR EQUAL.
6. INSTALL 3" WIDE BLUE UNDERGROUND WARNING TAPE.
7. SERVICE TO BE PLACED ON 1' COMPACTED SAND BED AND COVERED IN 1' COMPACTED SAND BED.
8. ANY SECTION OF NEW SERVICE LINE THAT IS 60' OR LESS IN LENGTH, SHALL CONTAIN NO COUPLINGS, UNIONS OR FITTINGS.
9. A NEW SERVICE LINE SHALL BE INSTALLED NO CLOSER THAN 10' TO A SEPTIC TANK, LEACH BED OR SEWER LINE. THIS DISTANCE CAN BE REDUCED TO 5' IF THE SERVICE LINE IS SLEEVED INSIDE A GASKETED PIPE.
10. WHEN A NEW SERVICE LINE CROSSES BENEATH A DRIVEWAY, THE SERVICE LINE SHALL BE SLEEVED WITHIN A PIPE EQUIVALENT TO SDR 35 AND MINIMUM DIAMETER OF 3".

ITEM REVISED IN 2026

 **PENNICHUCK**  
WATER

DETAIL D01  
TYPICAL 1"-1 1/4" SERVICE &  
VALVE BOX INSTALLATION DETAIL  
PENNICHUCK WATER WORKS, INC.  
REV: 02-20-2026 SCALE: NTS



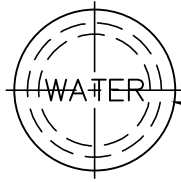
**NOTES:**

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
3. IF WATER MAIN IS PVC OR TRANSITE, A DOUBLE STAINLESS STEEL STRAP TAPPING SADDLE MUST BE USED TO CONNECT THE CORPORATION TO THE WATER MAIN. CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
4. IF TAPPING A FIRE SERVICE, THEN SEE DETAIL D15 AND D16.
5. USE 10-GAUGE SOLID-CORE COATED BLUE TRACER WIRE PER P.W.W. TECHNICAL SPECIFICATIONS. SPLICES REQUIRE SNAKEBITE LSC1030C LOCKING CONNECTORS OR EQUAL.
6. INSTALL 3" WIDE BLUE UNDERGROUND WARNING TAPE.
7. SERVICE TO BE PLACED ON 1' COMPACTED SAND BED AND COVERED IN 1' COMPACTED SAND BED.
8. ANY SECTION OF NEW SERVICE LINE THAT IS 60' OR LESS IN LENGTH, SHALL CONTAIN NO COUPLINGS, UNIONS OR FITTINGS.
9. A NEW SERVICE LINE SHALL BE INSTALLED NO CLOSER THAN 10' TO A SEPTIC TANK, LEACH BED OR SEWER LINE. THIS DISTANCE CAN BE REDUCED TO 5' IF THE SERVICE LINE IS SLEEVED INSIDE A GASKETED PIPE.
10. WHEN A NEW SERVICE LINE CROSSES BENEATH A DRIVEWAY, THE SERVICE LINE SHALL BE SLEEVED WITHIN A PIPE EQUIVALENT TO SDR 35 AND MINIMUM DIAMETER OF 3".

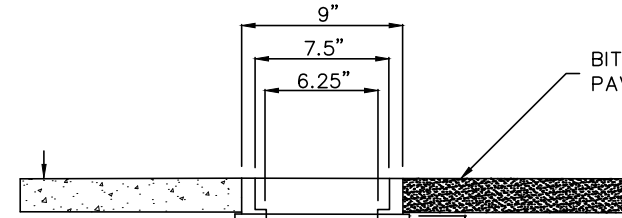
ITEM REVISED IN 2026



DETAIL D02  
 TYPICAL 1 1/2"-2" SERVICE &  
 VALVE BOX INSTALLATION DETAIL  
 PENNICHUCK WATER WORKS, INC.  
 REV: 02-20-2026 SCALE: NTS



GATE BOX COVER  
SEE DROP STYLE  
COVER IN DETAIL M14



BITUMINOUS OR CONCRETE  
PAVEMENT SURFACE (TYP)

3" TYP.

STANDARD GATE BOX  
TOP WITH COVER  
SEE TOP DETAIL IN  
DETAIL M14

24" MIN.

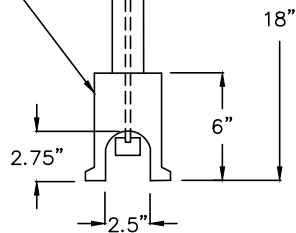
STANDARD SERVICE BOX  
SEE P.W.W. TECHNICAL  
SPECIFICATIONS

FOR 1½"–2" CURB STOPS: ELIMINATE  
SERVICE BOX AND SPLIT IRON; ADD  
48" GATE BOX BOTTOM AND FULL  
HEIGHT 4" PVC SLEEVE  
NOTCHED ON BOTTOM

SPLIT IRON IS 30" HIGH

½" STAINLESS STEEL  
SPLIT IRON  
FOR 1" TO 1¼"  
CURB STOP

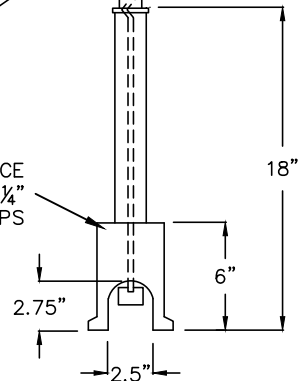
STANDARD FOOT PIECE  
FOR 1" TO 1¼"  
CURB STOPS



EXISTING  
GROUND

STANDARD SERVICE BOX  
SEE P.W.W. TECHNICAL  
SPECIFICATIONS

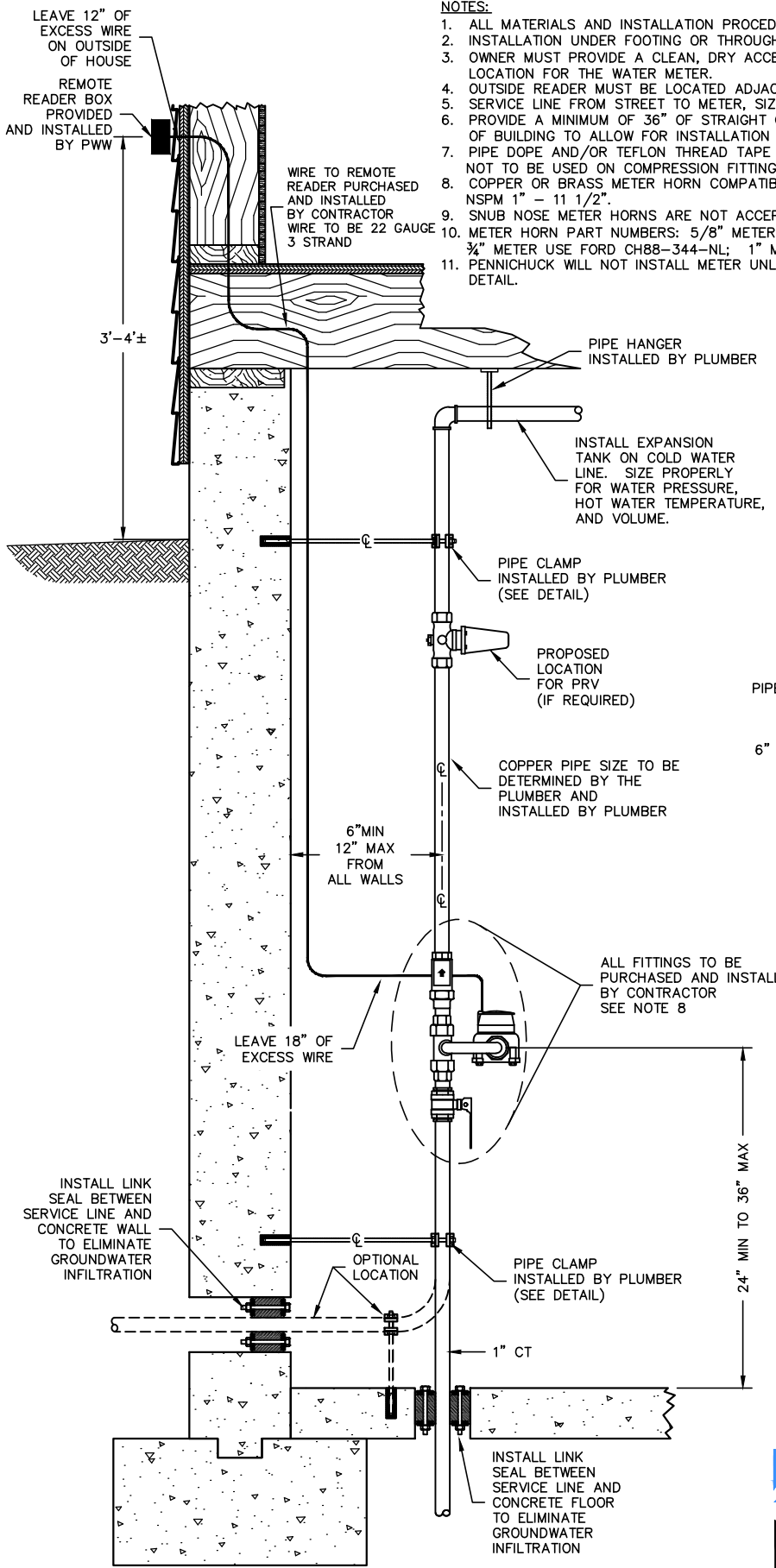
STANDARD FOOT PIECE  
FOR 1" TO 1¼"  
CURB STOPS



**NOTE:**  
ALL MATERIALS AND INSTALLATION  
PROCEDURES WILL CONFORM TO  
P.W.W. TECHNICAL SPECIFICATIONS.

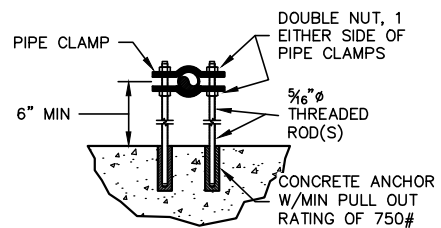


DETAIL D03  
TYPICAL SERVICE BOX DETAIL  
IN PAVED AREAS  
PENNICHUCK WATER WORKS, INC.  
REV: 03-15-2023 SCALE: NTS

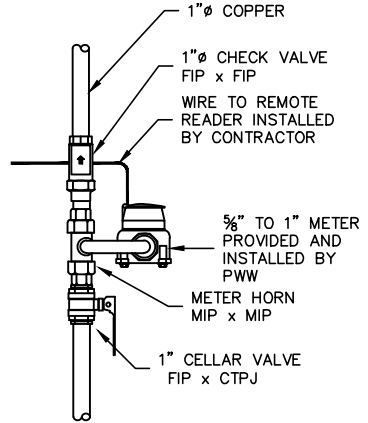


**NOTES:**

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. SPECIFICATIONS.
2. INSTALLATION UNDER FOOTING OR THROUGH FOUNDATION WALL AT OWNER'S OPTION.
3. OWNER MUST PROVIDE A CLEAN, DRY ACCESSIBLE AND WARM (CONTINUALLY ABOVE 45°F) LOCATION FOR THE WATER METER.
4. OUTSIDE READER MUST BE LOCATED ADJACENT TO DRIVEWAY.
5. SERVICE LINE FROM STREET TO METER, SIZE & MATERIALS TO BE APPROVED BY P.W.W.
6. PROVIDE A MINIMUM OF 36" OF STRAIGHT COPPER TUBING AT SERVICE ENTRANCE INSIDE OF BUILDING TO ALLOW FOR INSTALLATION OF P.W.W. METER AND VALVES.
7. PIPE DOPE AND/OR TEFLON THREAD TAPE TO BE USED ON ALL FIP OR MIP FITTINGS. NOT TO BE USED ON COMPRESSION FITTING THREADS.
8. COPPER OR BRASS METER HORN COMPATIBLE WITH NEPTUNE T-10 METER WITH THREADS NSPM 1" - 1 1/2".
9. SNUB NOSE METER HORNS ARE NOT ACCEPTED.
10. METER HORN PART NUMBERS: 5/8" METER USE FORD KH-2-NL (3/4" X 5/8"); 3/4" METER USE FORD CH88-344-NL; 1" METER USE FORD CH88-444-NL.
11. PENNICHUCK WILL NOT INSTALL METER UNLESS ENTIRE INSTALLATION CONFORMS TO THIS DETAIL.



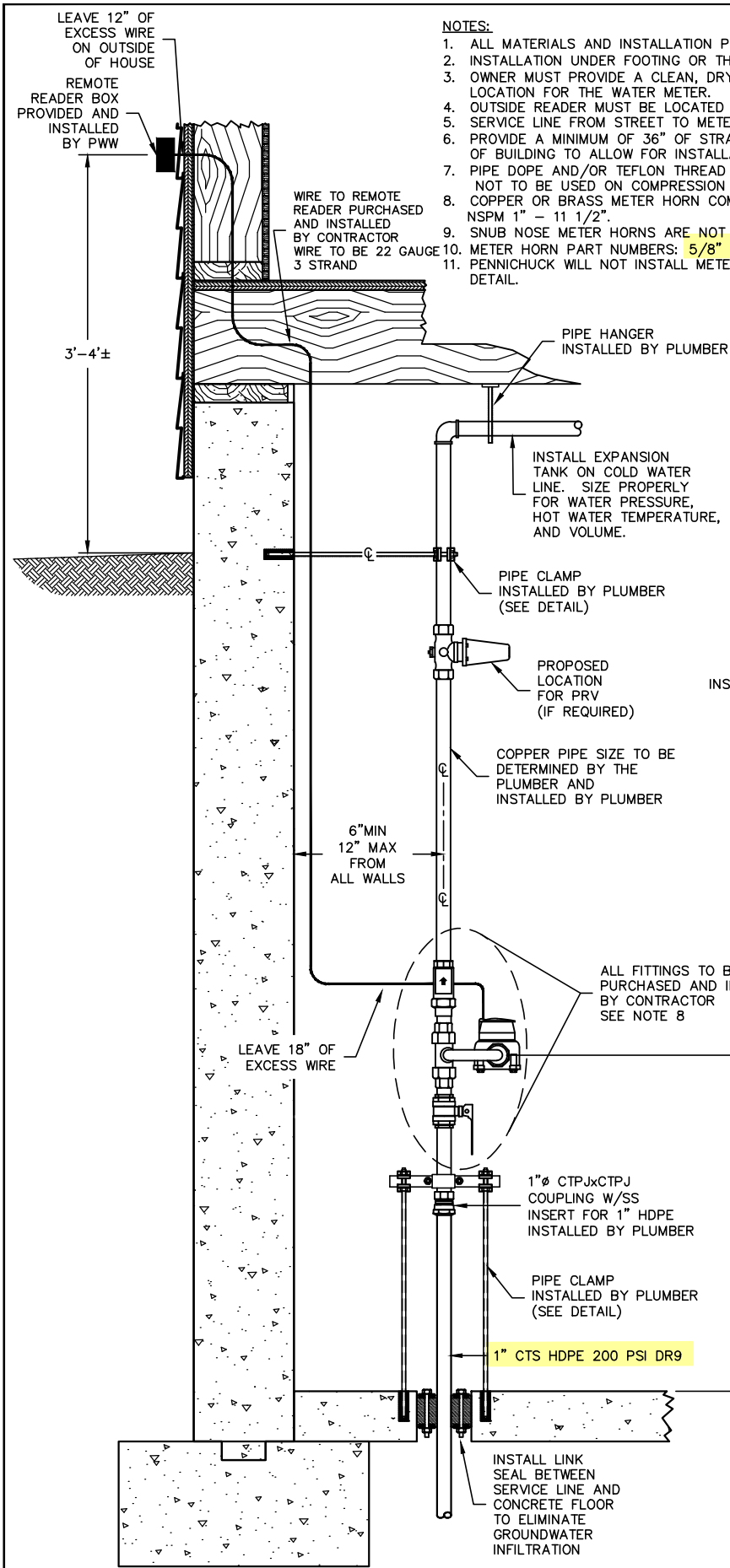
**PIPE CLAMP (WALL)**  
NTS



MAX. SPACING BETWEEN CELLAR VALVE, METER HORN AND CHECK VALVE TO NOT EXCEED 2 INCHES

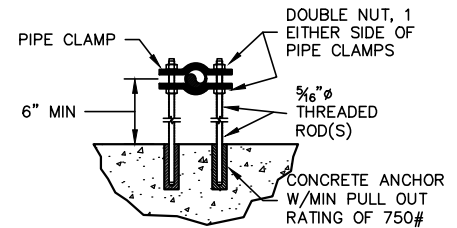


**DETAIL D04**  
TYPICAL 1" CT SERVICE WITH 5/8", 3/4", 1" METER SERVICE INSTALLATION  
PENNICHUCK WATER WORKS, INC.  
REV: 03-15-2023 SCALE: NTS



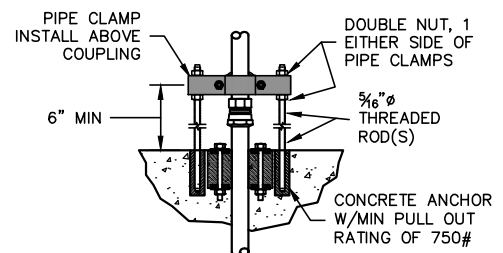
**NOTES:**

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. SPECIFICATIONS.
2. INSTALLATION UNDER FOOTING OR THROUGH FOUNDATION WALL AT OWNER'S OPTION.
3. OWNER MUST PROVIDE A CLEAN, DRY ACCESSIBLE AND WARM (CONTINUALLY ABOVE 45°F) LOCATION FOR THE WATER METER.
4. OUTSIDE READER MUST BE LOCATED ADJACENT TO DRIVEWAY.
5. SERVICE LINE FROM STREET TO METER, SIZE & MATERIALS TO BE APPROVED BY P.W.W.
6. PROVIDE A MINIMUM OF 36" OF STRAIGHT COPPER TUBING AT SERVICE ENTRANCE INSIDE OF BUILDING TO ALLOW FOR INSTALLATION OF P.W.W. METER AND VALVES.
7. PIPE DOPE AND/OR TEFLON THREAD TAPE TO BE USED ON ALL FIP OR MIP FITTINGS. NOT TO BE USED ON COMPRESSION FITTING THREADS.
8. COPPER OR BRASS METER HORN COMPATIBLE WITH NEPTUNE T-10 METER WITH THREADS NSPM 1" - 1 1/2".
9. SNUB NOSE METER HORNS ARE NOT ACCEPTED.
10. METER HORN PART NUMBERS: 5/8" METER USE FORD KH-2-NL (3/4" X 5/8").
11. PENNICHUCK WILL NOT INSTALL METER UNLESS ENTIRE INSTALLATION CONFORMS TO THIS DETAIL.



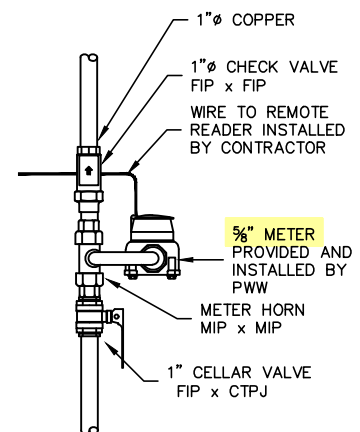
**PIPE CLAMP (WALL)**

NTS



**PIPE CLAMP (FLOOR)**

NTS



MAX. SPACING BETWEEN CELLAR VALVE, METER HORN AND CHECK VALVE TO NOT EXCEED 2 INCHES

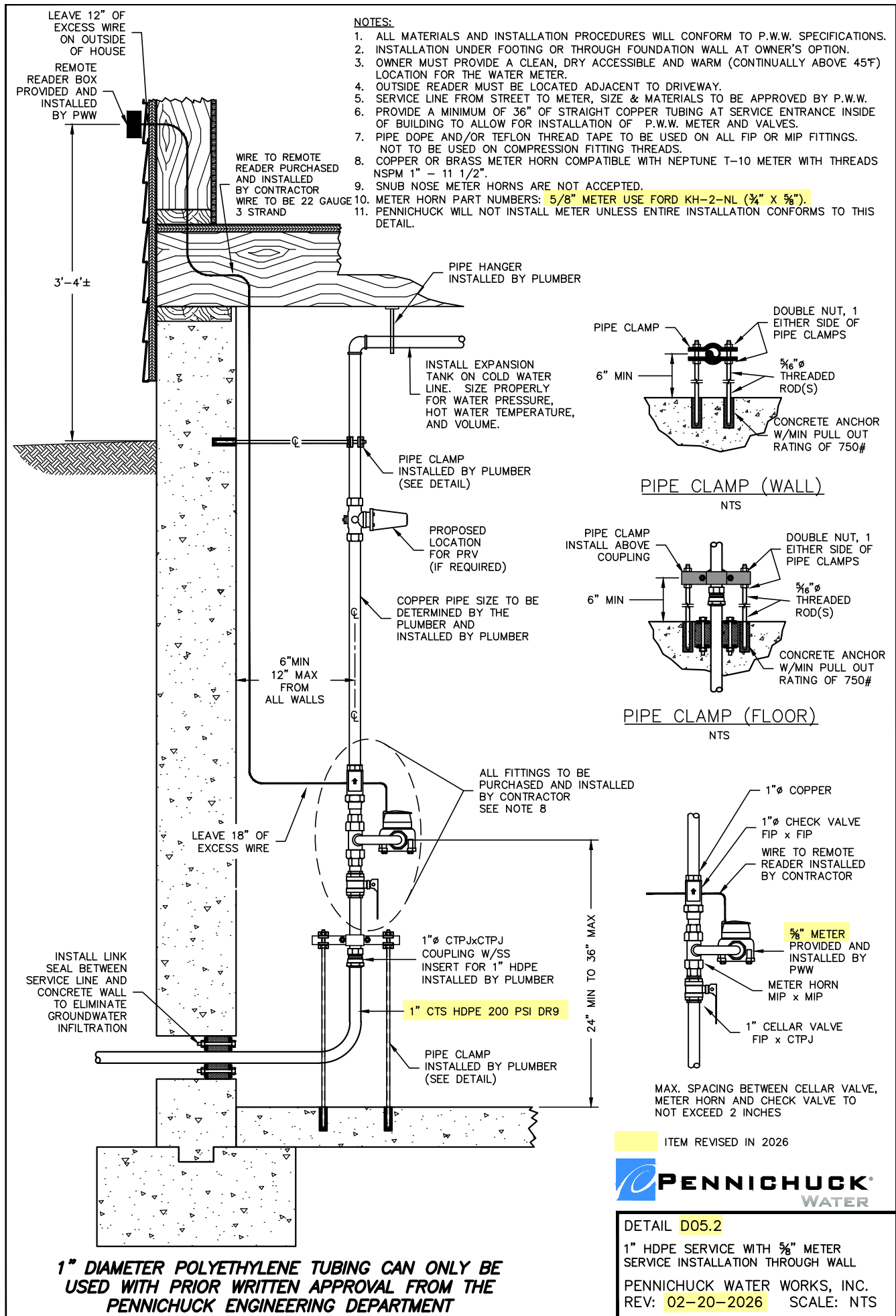
ITEM REVISED IN 2026



DETAIL D05.1

1" HDPE SERVICE WITH 5/8" METER  
 SERVICE INSTALLATION THROUGH FLOOR  
 PENNICHUCK WATER WORKS, INC.  
 REV: 02-20-2026 SCALE: NTS

**1" DIAMETER POLYETHYLENE TUBING CAN ONLY BE USED WITH PRIOR WRITTEN APPROVAL FROM THE PENNICHUCK ENGINEERING DEPARTMENT**



**NOTES:**

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. SPECIFICATIONS.
2. INSTALLATION UNDER FOOTING OR THROUGH FOUNDATION WALL AT OWNER'S OPTION.
3. OWNER MUST PROVIDE A CLEAN, DRY ACCESSIBLE AND WARM (CONTINUALLY ABOVE 45°F) LOCATION FOR THE WATER METER.
4. OUTSIDE READER MUST BE LOCATED ADJACENT TO DRIVEWAY.
5. SERVICE LINE FROM STREET TO METER, SIZE & MATERIALS TO BE APPROVED BY P.W.W.
6. PROVIDE A MINIMUM OF 36" OF STRAIGHT COPPER TUBING AT SERVICE ENTRANCE INSIDE OF BUILDING TO ALLOW FOR INSTALLATION OF P.W.W. METER AND VALVES.
7. PIPE DOPE AND/OR TEFLON THREAD TAPE TO BE USED ON ALL FIP OR MIP FITTINGS. NOT TO BE USED ON COMPRESSION FITTING THREADS.
8. COPPER OR BRASS METER HORN COMPATIBLE WITH NEPTUNE T-10 METER WITH THREADS NSPM 1" - 11 1/2".
9. SNUB NOSE METER HORNS ARE NOT ACCEPTED.
10. METER HORN PART NUMBERS: 5/8" METER USE FORD KH-2-NL (3/4" X 5/8").
11. PENNICHUCK WILL NOT INSTALL METER UNLESS ENTIRE INSTALLATION CONFORMS TO THIS DETAIL.

**1" DIAMETER POLYETHYLENE TUBING CAN ONLY BE USED WITH PRIOR WRITTEN APPROVAL FROM THE PENNICHUCK ENGINEERING DEPARTMENT**

LEAVE 12" OF EXCESS WIRE ON OUTSIDE OF HOUSE

REMOTE READER BOX PROVIDED AND INSTALLED BY PWW

WIRE TO REMOTE READER PURCHASED AND INSTALLED BY CONTRACTOR WIRE TO BE 22 GAUGE 3 STRAND

3'-4"±

PIPE HANGER INSTALLED BY PLUMBER

INSTALL EXPANSION TANK ON COLD WATER LINE. SIZE PROPERLY FOR WATER PRESSURE, HOT WATER TEMPERATURE, AND VOLUME.

PIPE CLAMP INSTALLED BY PLUMBER (SEE DETAIL)

PROPOSED LOCATION FOR PRV (IF REQUIRED)

1"Ø COPPER PIPE TYPE K INSTALLED BY PLUMBER

6" MIN 12" MAX FROM ALL WALLS

ALL FITTINGS TO BE PURCHASED AND INSTALLED BY CONTRACTOR SEE NOTE 8

LEAVE 18" OF EXCESS WIRE

1" MIP x CTPJ INSTALLED BY PLUMBER

1½" CTPJ x 1½" FIP W/ 1½" x 1" BRASS BUSHING INSTALLED BY PLUMBER

1 1/4" HDPE PJ x FIP W/SS INSERT INSTALLED BY PLUMBER

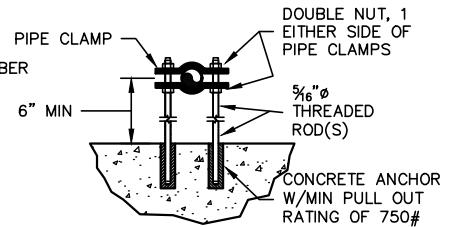
1 1/4" CTS HDPE 200 PSI DR9

PIPE CLAMP INSTALLED BY PLUMBER (SEE DETAIL)

INSTALL LINK SEAL BETWEEN SERVICE LINE AND CONCRETE FLOOR TO ELIMINATE GROUNDWATER INFILTRATION

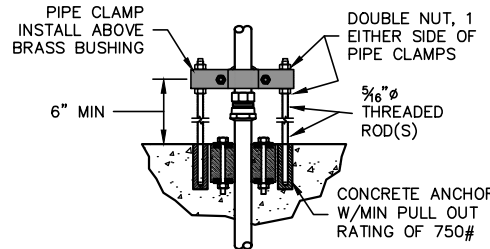
**NOTES:**

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. SPECIFICATIONS.
2. INSTALLATION UNDER FOOTING OR THROUGH FOUNDATION WALL AT OWNER'S OPTION.
3. OWNER MUST PROVIDE A CLEAN, DRY ACCESSIBLE AND WARM (CONTINUALLY ABOVE 45°F) LOCATION FOR THE WATER METER.
4. OUTSIDE READER MUST BE LOCATED ADJACENT TO DRIVEWAY.
5. SERVICE LINE FROM STREET TO METER, SIZE & MATERIALS TO BE APPROVED BY P.W.W.
6. PROVIDE A MINIMUM OF 36" OF STRAIGHT COPPER TUBING AT SERVICE ENTRANCE INSIDE OF BUILDING TO ALLOW FOR INSTALLATION OF P.W.W. METER AND VALVES.
7. PIPE DOPE AND/OR TEFLON THREAD TAPE TO BE USED ON ALL FIP OR MIP FITTINGS. NOT TO BE USED ON COMPRESSION FITTING THREADS.
8. COPPER OR BRASS METER HORN COMPATIBLE WITH NEPTUNE T-10 METER WITH THREADS NSPM 1" - 11 1/2".
9. SNUB NOSE METER HORNS ARE NOT ACCEPTED.
10. METER HORN PART NUMBERS: 5/8" METER USE FORD KH-2-NL (¾" x 5/8"); ¾" METER USE FORD CH88-344-NL; 1" METER USE FORD CH88-444-NL.
11. PENNICHUCK WILL NOT INSTALL METER UNLESS ENTIRE INSTALLATION CONFORMS TO THIS DETAIL.



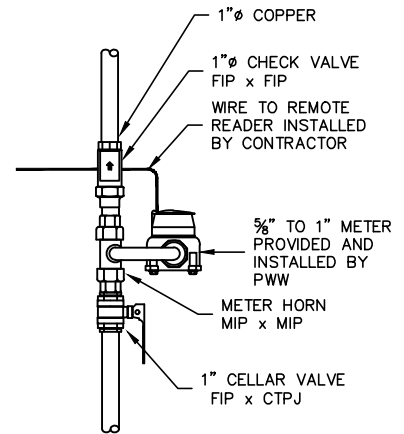
**PIPE CLAMP (WALL)**

NTS



**PIPE CLAMP (FLOOR)**

NTS



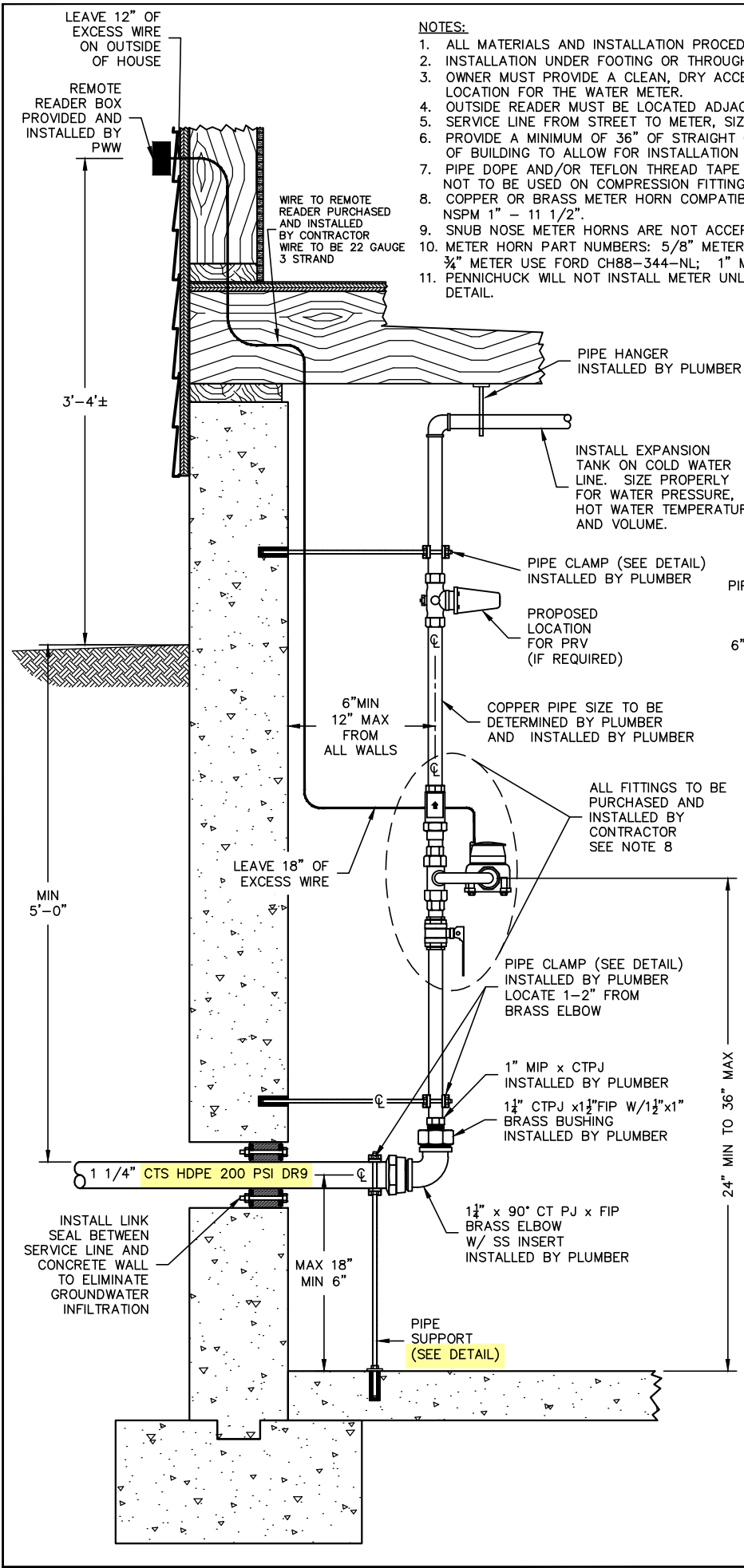
MAX. SPACING BETWEEN CELLAR VALVE, METER HORN AND CHECK VALVE TO NOT EXCEED 2 INCHES

ITEM REVISED IN 2026



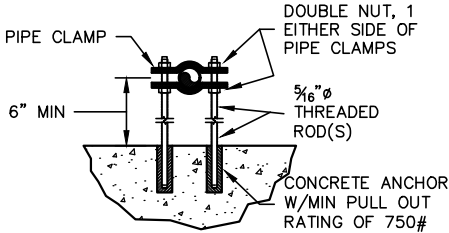
**DETAIL D06**

TYPICAL 1½" SERVICE WITH 5/8", ¾" & 1" METER SERVICE THROUGH FLOOR INSTALLATION  
PENNICHUCK WATER WORKS, INC.  
REV: 02-20-2026 SCALE: NTS

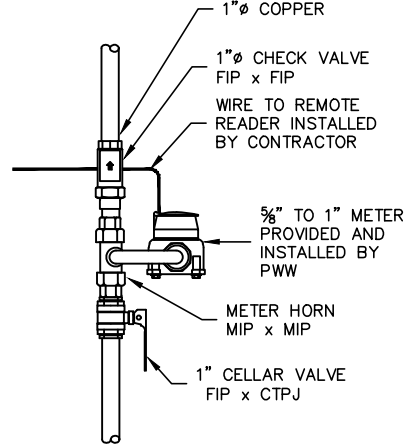


**NOTES:**

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2. INSTALLATION UNDER FOOTING OR THROUGH FOUNDATION WALL AT OWNER'S OPTION.
3. OWNER MUST PROVIDE A CLEAN, DRY ACCESSIBLE AND WARM (CONTINUALLY ABOVE 45°F) LOCATION FOR THE WATER METER.
4. OUTSIDE READER MUST BE LOCATED ADJACENT TO DRIVEWAY.
5. SERVICE LINE FROM STREET TO METER, SIZE & MATERIALS TO BE APPROVED BY P.W.W.
6. PROVIDE A MINIMUM OF 36" OF STRAIGHT COPPER TUBING AT SERVICE ENTRANCE INSIDE OF BUILDING TO ALLOW FOR INSTALLATION OF P.W.W. METER AND VALVES.
7. PIPE DOPE AND/OR TEFLON THREAD TAPE TO BE USED ON ALL FIP OR MIP FITTINGS. NOT TO BE USED ON COMPRESSION FITTING THREADS.
8. COPPER OR BRASS METER HORN COMPATIBLE WITH NEPTUNE T-10 METER WITH THREADS NSPM 1" - 1 1/2".
9. SNUB NOSE METER HORNS ARE NOT ACCEPTED.
10. METER HORN PART NUMBERS: 5/8" METER USE FORD KH-2-NL (3/4" x 5/8"); 3/4" METER USE FORD CH88-344-NL; 1" METER USE FORD CH88-444-NL.
11. PENNICHUCK WILL NOT INSTALL METER UNLESS ENTIRE INSTALLATION CONFORMS TO THIS DETAIL.



**PIPE CLAMP**  
NTS

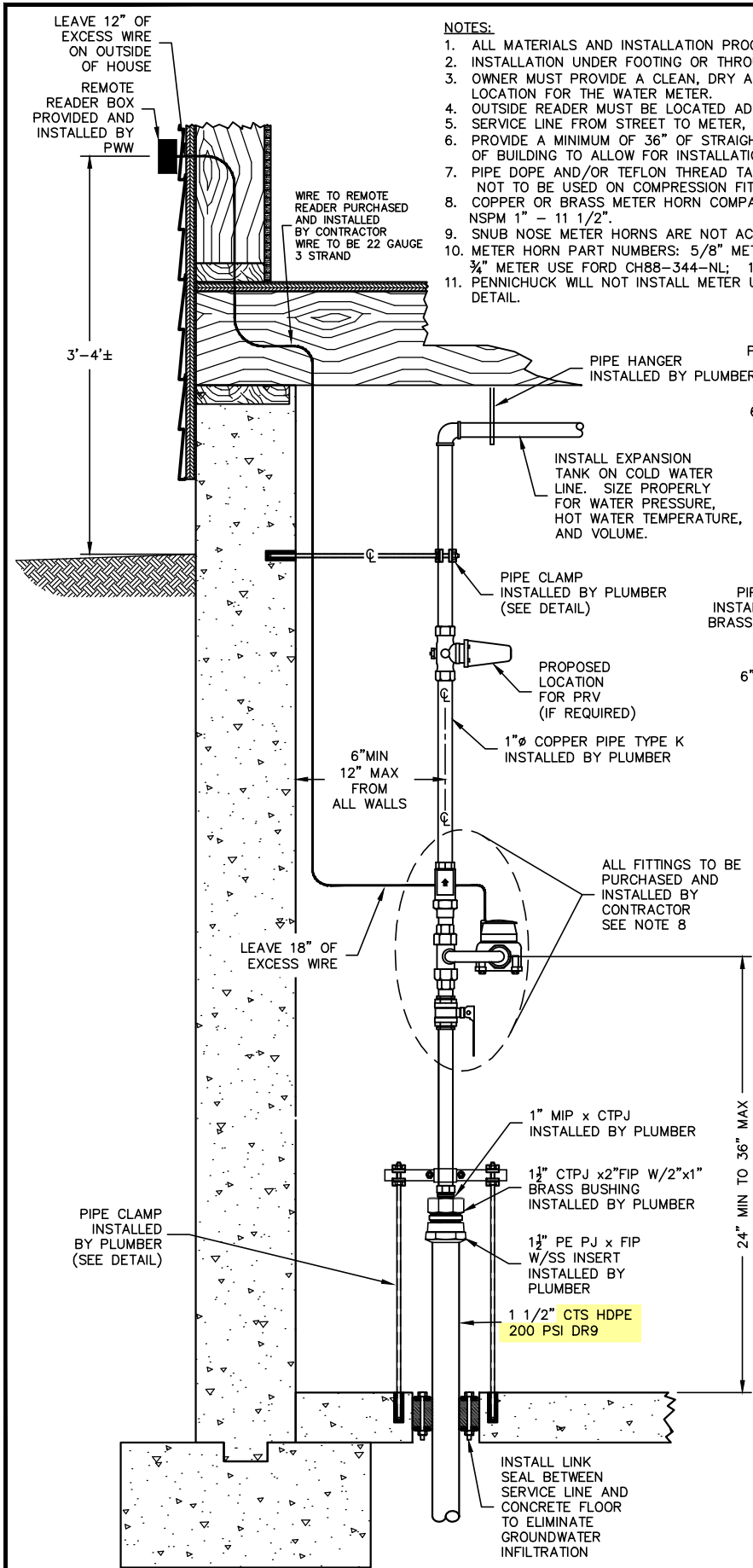


MAX. SPACING BETWEEN CELLAR VALVE, METER HORN AND CHECK VALVE TO NOT EXCEED 2 INCHES

ITEM REVISED IN 2026

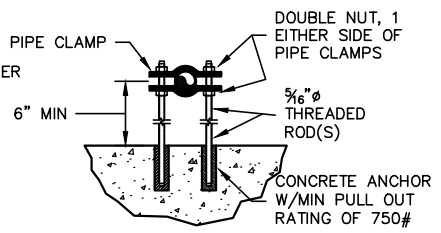


**DETAIL D07**  
TYPICAL 1 1/4" SERVICE WITH 5/8", 3/4" & 1" METER THROUGH WALL  
INSTALLATION  
PENNICHUCK WATER WORKS, INC.  
REV: 02-20-2026 SCALE: NTS

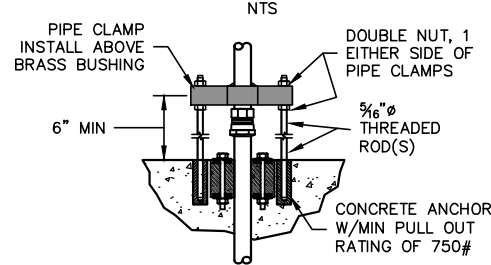


**NOTES:**

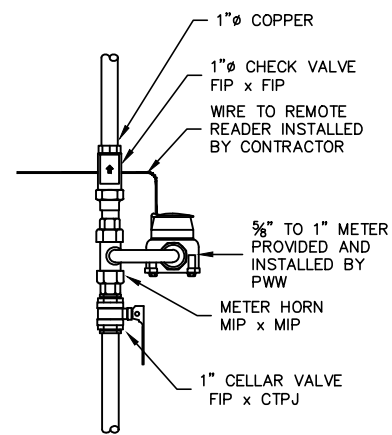
1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. SPECIFICATIONS.
2. INSTALLATION UNDER FOOTING OR THROUGH FOUNDATION WALL AT OWNER'S OPTION.
3. OWNER MUST PROVIDE A CLEAN, DRY ACCESSIBLE AND WARM (CONTINUALLY ABOVE 45°F) LOCATION FOR THE WATER METER.
4. OUTSIDE READER MUST BE LOCATED ADJACENT TO DRIVEWAY.
5. SERVICE LINE FROM STREET TO METER, SIZE & MATERIALS TO BE APPROVED BY P.W.W.
6. PROVIDE A MINIMUM OF 36" OF STRAIGHT COPPER TUBING AT SERVICE ENTRANCE INSIDE OF BUILDING TO ALLOW FOR INSTALLATION OF P.W.W. METER AND VALVES.
7. PIPE DOPE AND/OR TEFLON THREAD TAPE TO BE USED ON ALL FIP OR MIP FITTINGS. NOT TO BE USED ON COMPRESSION FITTING THREADS.
8. COPPER OR BRASS METER HORN COMPATIBLE WITH NEPTUNE T-10 METER WITH THREADS NSPM 1" - 11 1/2".
9. SNUB NOSE METER HORNS ARE NOT ACCEPTED.
10. METER HORN PART NUMBERS: 5/8" METER USE FORD KH-2-NL (3/4" X 5/8"); 3/4" METER USE FORD CH88-344-NL; 1" METER USE FORD CH88-444-NL.
11. PENNICHUCK WILL NOT INSTALL METER UNLESS ENTIRE INSTALLATION CONFORMS TO THIS DETAIL.



**PIPE CLAMP (WALL)**



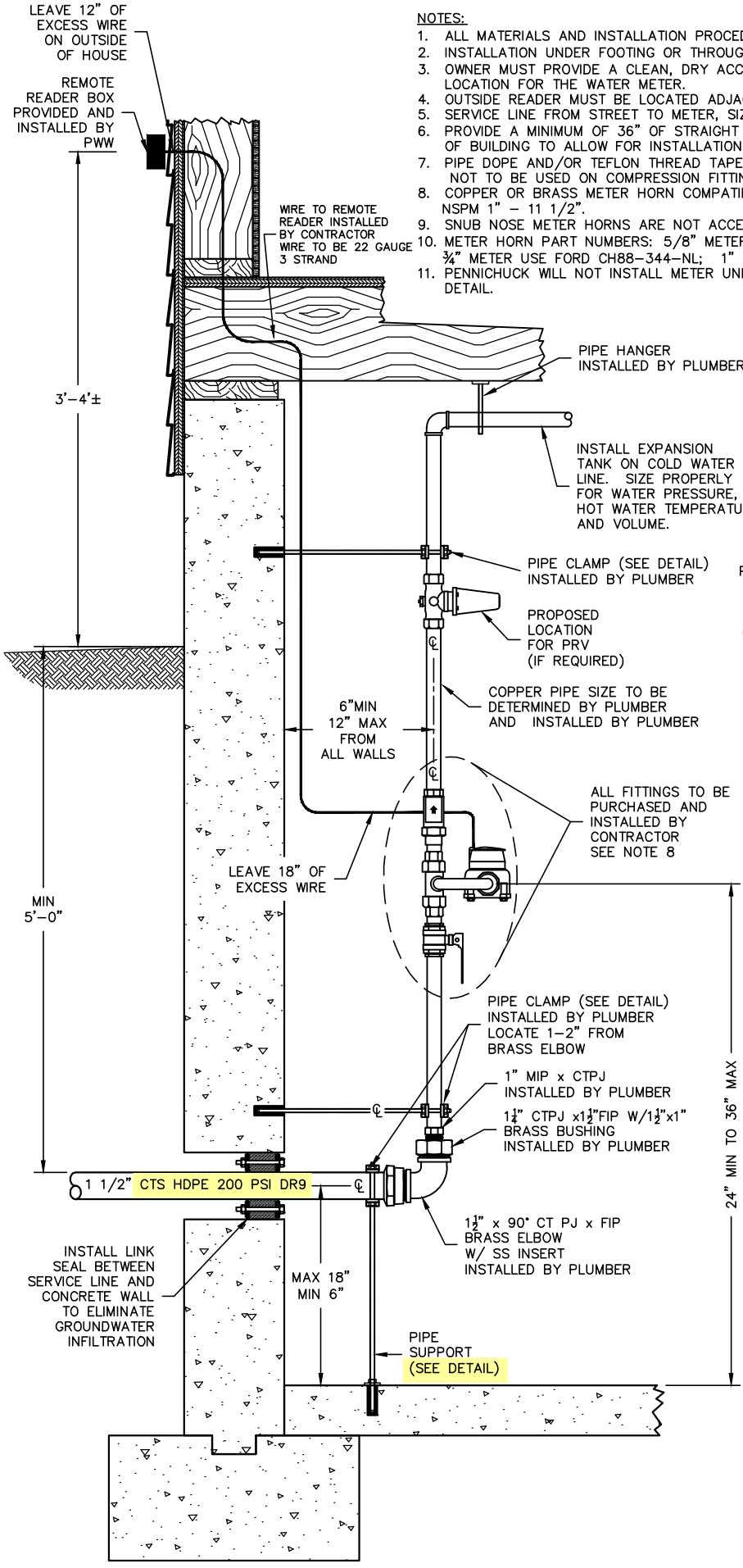
**PIPE CLAMP (FLOOR)**



MAX. SPACING BETWEEN CELLAR VALVE, METER HORN AND CHECK VALVE TO NOT EXCEED 2 INCHES

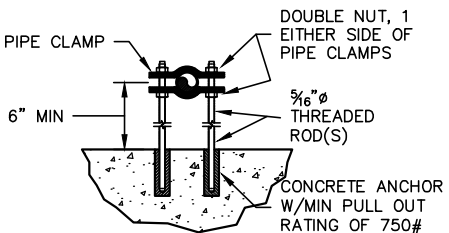
ITEM REVISED IN 2026

**DETAIL D08**  
 TYPICAL 1 1/2" SERVICE WITH 5/8", 3/4" & 1" METER SERVICE THROUGH FLOOR INSTALLATION  
 PENNICHUCK WATER WORKS, INC.  
 REV: 02-20-2026 SCALE: NTS

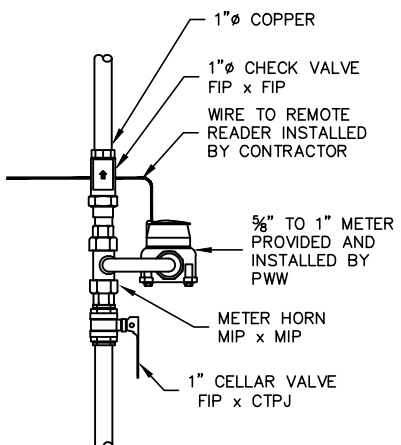


**NOTES:**

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. SPECIFICATIONS.
2. INSTALLATION UNDER FOOTING OR THROUGH FOUNDATION WALL AT OWNER'S OPTION.
3. OWNER MUST PROVIDE A CLEAN, DRY ACCESSIBLE AND WARM (CONTINUALLY ABOVE 45°F) LOCATION FOR THE WATER METER.
4. OUTSIDE READER MUST BE LOCATED ADJACENT TO DRIVEWAY.
5. SERVICE LINE FROM STREET TO METER, SIZE & MATERIALS TO BE APPROVED BY P.W.W.
6. PROVIDE A MINIMUM OF 36" OF STRAIGHT COPPER TUBING AT SERVICE ENTRANCE INSIDE OF BUILDING TO ALLOW FOR INSTALLATION OF P.W.W. METER AND VALVES.
7. PIPE DOPE AND/OR TEFLON THREAD TAPE TO BE USED ON ALL FIP OR MIP FITTINGS. NOT TO BE USED ON COMPRESSION FITTING THREADS.
8. COPPER OR BRASS METER HORN COMPATIBLE WITH NEPTUNE T-10 METER WITH THREADS NSPM 1" - 1 1/2".
9. SNUB NOSE METER HORNS ARE NOT ACCEPTED.
10. METER HORN PART NUMBERS: 5/8" METER USE FORD KH-2-NL (3/4" X 5/8"); 3/4" METER USE FORD CH88-344-NL; 1" METER USE FORD CH88-444-NL.
11. PENNICHUCK WILL NOT INSTALL METER UNLESS ENTIRE INSTALLATION CONFORMS TO THIS DETAIL.



**PIPE CLAMP**  
NTS

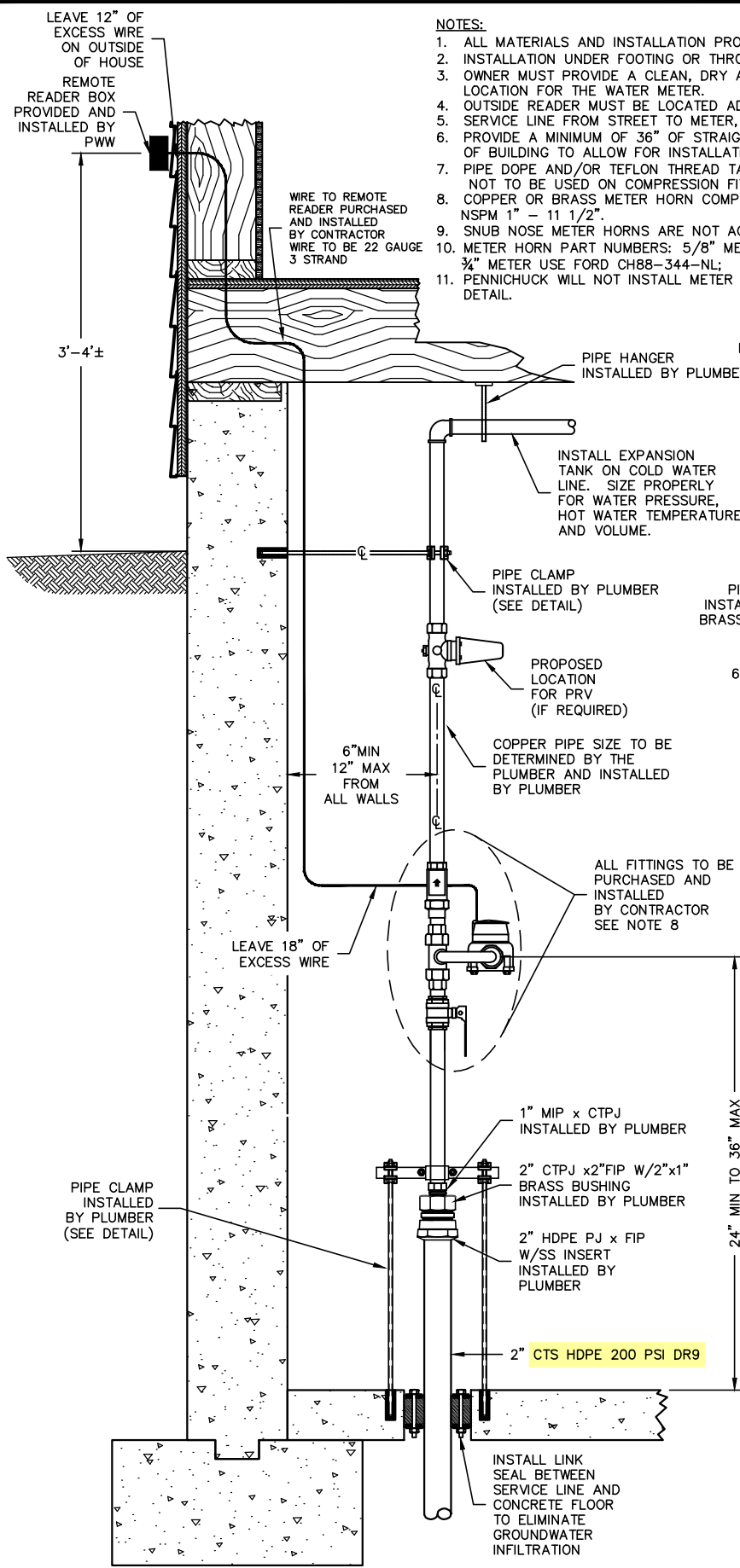


MAX. SPACING BETWEEN CELLAR VALVE, METER HORN AND CHECK VALVE TO NOT EXCEED 2 INCHES

ITEM REVISED IN 2026

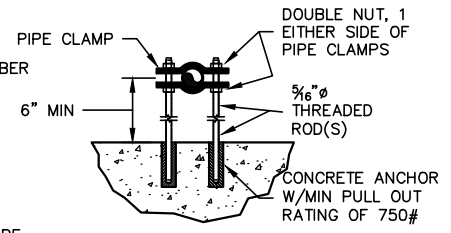


**DETAIL D09**  
TYPICAL 1 1/2" SERVICE WITH 5/8", 3/4" & 1" METER THROUGH WALL INSTALLATION  
PENNICHUCK WATER WORKS, INC.  
REV: 02-20-2026 SCALE: NTS

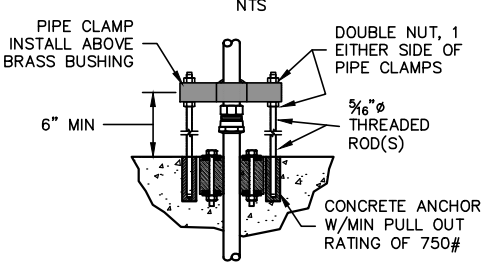


**NOTES:**

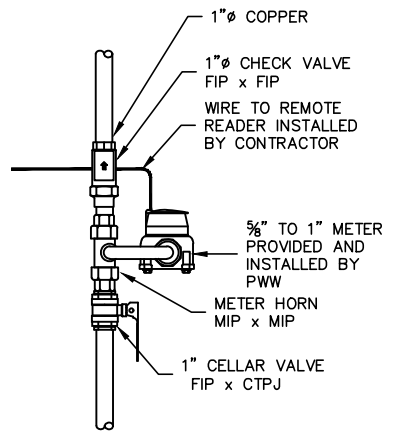
1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. SPECIFICATIONS.
2. INSTALLATION UNDER FOOTING OR THROUGH FOUNDATION WALL AT OWNER'S OPTION.
3. OWNER MUST PROVIDE A CLEAN, DRY ACCESSIBLE AND WARM (CONTINUALLY ABOVE 45°F) LOCATION FOR THE WATER METER.
4. OUTSIDE READER MUST BE LOCATED ADJACENT TO DRIVEWAY.
5. SERVICE LINE FROM STREET TO METER, SIZE & MATERIALS TO BE APPROVED BY P.W.W.
6. PROVIDE A MINIMUM OF 36" OF STRAIGHT COPPER TUBING AT SERVICE ENTRANCE INSIDE OF BUILDING TO ALLOW FOR INSTALLATION OF P.W.W. METER AND VALVES.
7. PIPE DOPE AND/OR TEFLON THREAD TAPE TO BE USED ON ALL FIP OR MIP FITTINGS. NOT TO BE USED ON COMPRESSION FITTING THREADS.
8. COPPER OR BRASS METER HORN COMPATIBLE WITH NEPTUNE T-10 METER WITH THREADS NSPM 1" - 1 1/2".
9. SNUB NOSE METER HORNS ARE NOT ACCEPTED.
10. METER HORN PART NUMBERS: 5/8" METER USE FORD KH-2-NL (3/4" X 5/8"); 3/4" METER USE FORD CH88-344-NL; 1" METER USE FORD CH88-444-NL.
11. PENNICHUCK WILL NOT INSTALL METER UNLESS ENTIRE INSTALLATION CONFORMS TO THIS DETAIL.



**PIPE CLAMP (WALL)**



**PIPE CLAMP (FLOOR)**

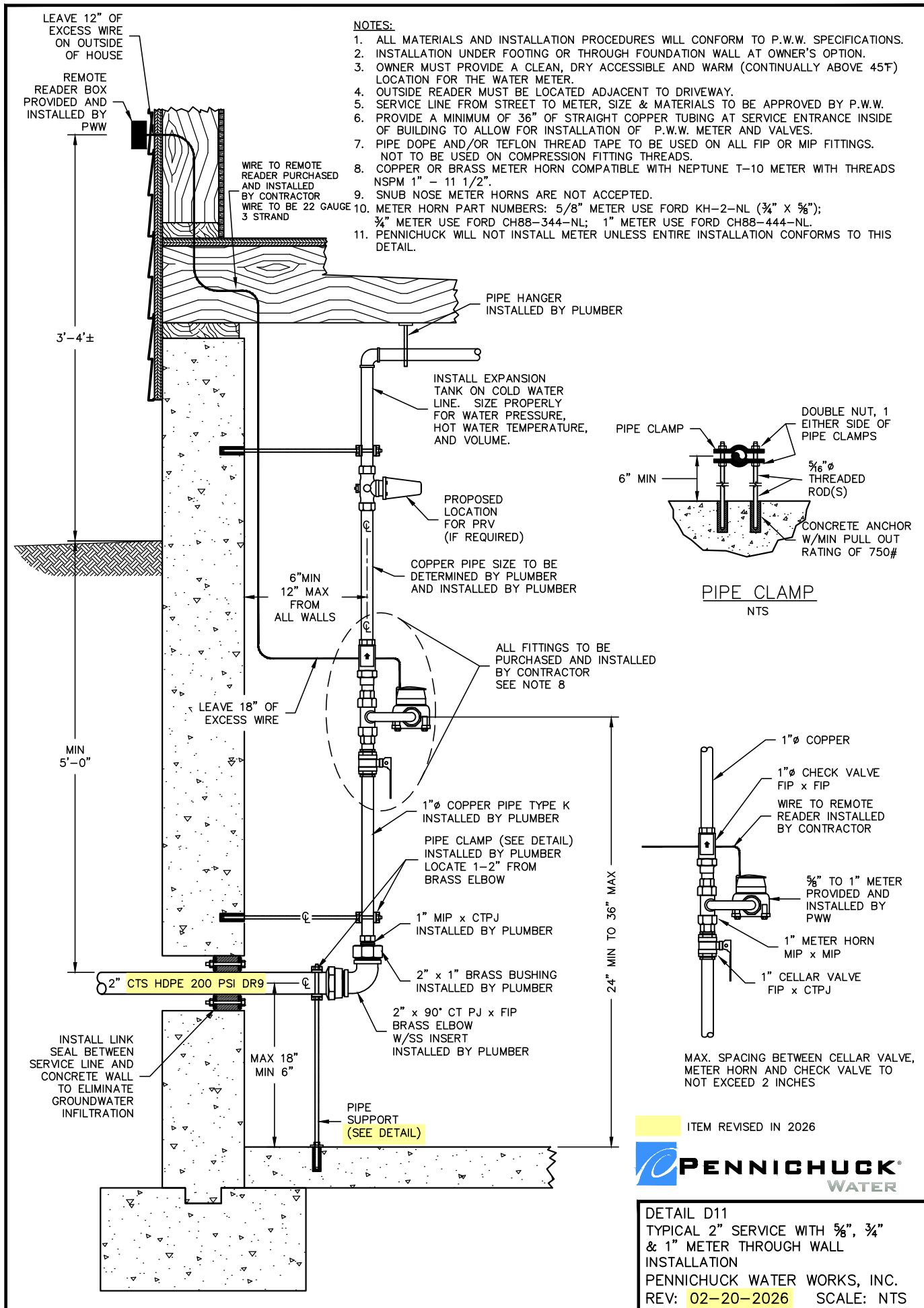


MAX. SPACING BETWEEN CELLAR VALVE, METER HORN AND CHECK VALVE TO NOT EXCEED 2 INCHES

ITEM REVISED IN 2026

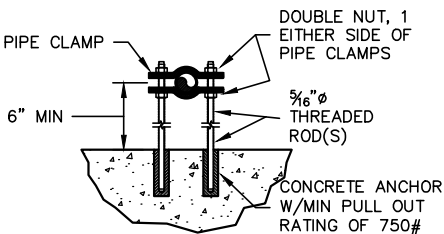


DETAIL D10  
 TYPICAL 2" SERVICE WITH 5/8", 3/4" & 1"  
 METER SERVICE THROUGH FLOOR  
 INSTALLATION  
 PENNICHUCK WATER WORKS, INC.  
 REV: 02-20-2026 SCALE: NTS

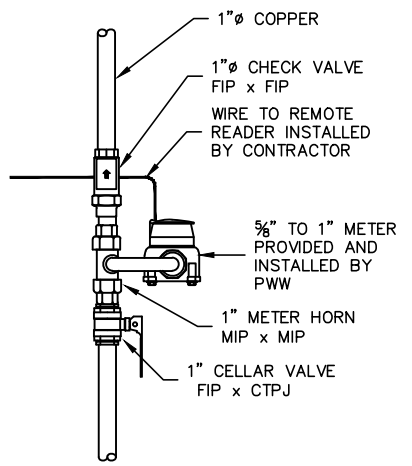


**NOTES:**

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. SPECIFICATIONS.
2. INSTALLATION UNDER FOOTING OR THROUGH FOUNDATION WALL AT OWNER'S OPTION.
3. OWNER MUST PROVIDE A CLEAN, DRY ACCESSIBLE AND WARM (CONTINUALLY ABOVE 45°F) LOCATION FOR THE WATER METER.
4. OUTSIDE READER MUST BE LOCATED ADJACENT TO DRIVEWAY.
5. SERVICE LINE FROM STREET TO METER, SIZE & MATERIALS TO BE APPROVED BY P.W.W.
6. PROVIDE A MINIMUM OF 36" OF STRAIGHT COPPER TUBING AT SERVICE ENTRANCE INSIDE OF BUILDING TO ALLOW FOR INSTALLATION OF P.W.W. METER AND VALVES.
7. PIPE DOPE AND/OR TEFLON THREAD TAPE TO BE USED ON ALL FIP OR MIP FITTINGS. NOT TO BE USED ON COMPRESSION FITTING THREADS.
8. COPPER OR BRASS METER HORN COMPATIBLE WITH NEPTUNE T-10 METER WITH THREADS NSPM 1" - 11 1/2".
9. SNUB NOSE METER HORNS ARE NOT ACCEPTED.
10. METER HORN PART NUMBERS: 5/8" METER USE FORD KH-2-NL (3/4" X 5/8"); 3/4" METER USE FORD CH88-344-NL; 1" METER USE FORD CH88-444-NL.
11. PENNICHUCK WILL NOT INSTALL METER UNLESS ENTIRE INSTALLATION CONFORMS TO THIS DETAIL.



**PIPE CLAMP**  
NTS

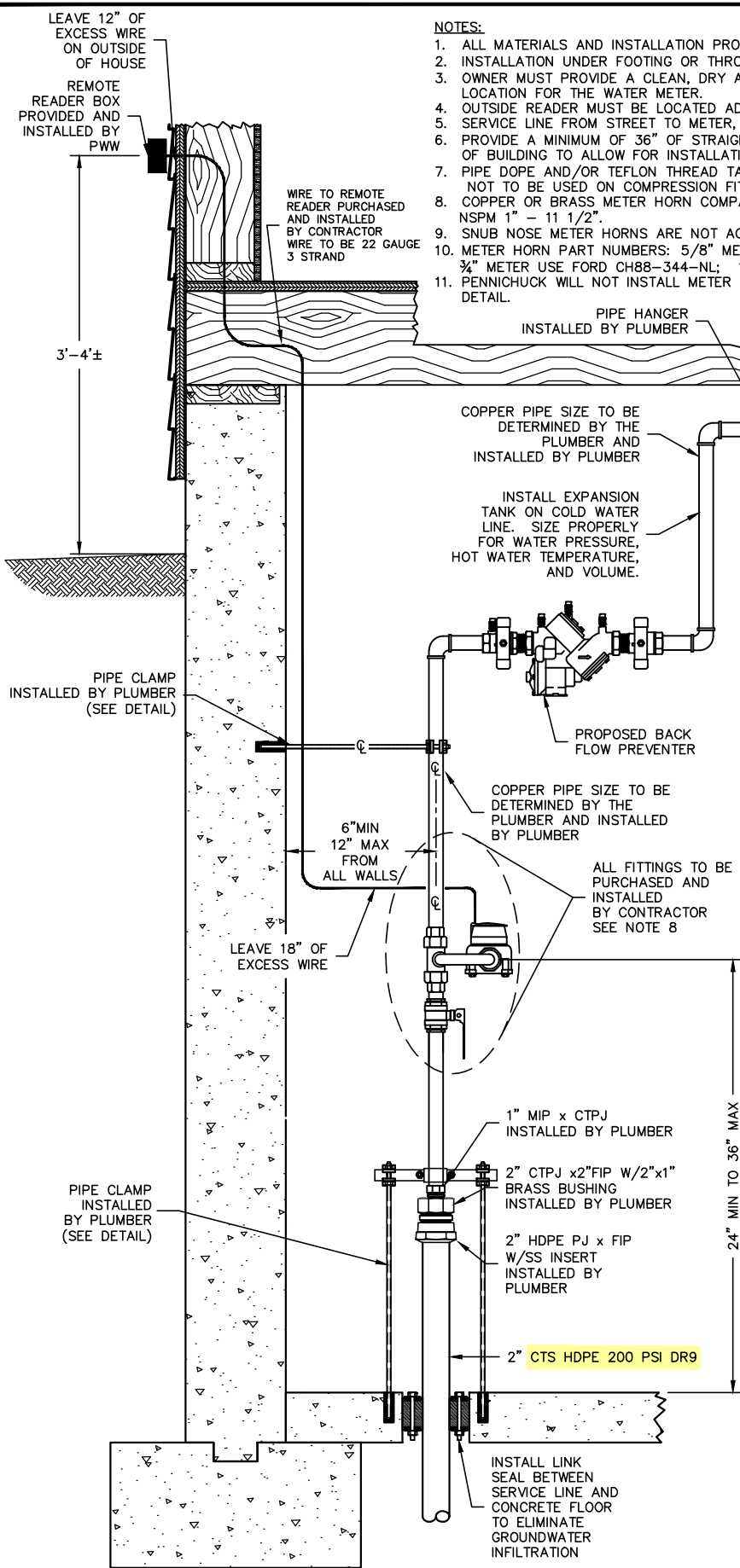


MAX. SPACING BETWEEN CELLAR VALVE, METER HORN AND CHECK VALVE TO NOT EXCEED 2 INCHES

ITEM REVISED IN 2026

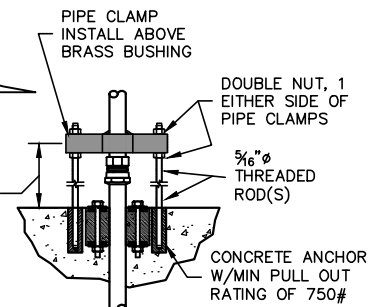


**DETAIL D11**  
TYPICAL 2" SERVICE WITH 5/8", 3/4" & 1" METER THROUGH WALL INSTALLATION  
PENNICHUCK WATER WORKS, INC.  
REV: 02-20-2026 SCALE: NTS

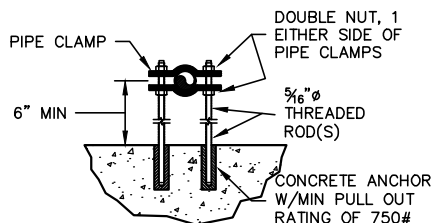


**NOTES:**

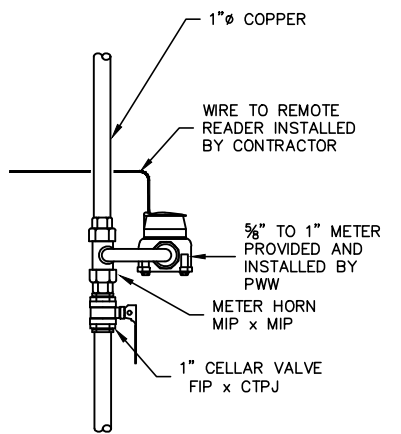
1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. SPECIFICATIONS.
2. INSTALLATION UNDER FOOTING OR THROUGH FOUNDATION WALL AT OWNER'S OPTION.
3. OWNER MUST PROVIDE A CLEAN, DRY ACCESSIBLE AND WARM (CONTINUALLY ABOVE 45°F) LOCATION FOR THE WATER METER.
4. OUTSIDE READER MUST BE LOCATED ADJACENT TO DRIVEWAY.
5. SERVICE LINE FROM STREET TO METER, SIZE & MATERIALS TO BE APPROVED BY P.W.W.
6. PROVIDE A MINIMUM OF 36" OF STRAIGHT COPPER TUBING AT SERVICE ENTRANCE INSIDE OF BUILDING TO ALLOW FOR INSTALLATION OF P.W.W. METER AND VALVES.
7. PIPE DOPE AND/OR TEFLON THREAD TAPE TO BE USED ON ALL FIP OR MIP FITTINGS. NOT TO BE USED ON COMPRESSION FITTING THREADS.
8. COPPER OR BRASS METER HORN COMPATIBLE WITH NEPTUNE T-10 METER WITH THREADS NSPM 1" - 1 1/2".
9. SNUB NOSE METER HORNS ARE NOT ACCEPTED.
10. METER HORN PART NUMBERS: 5/8" METER USE FORD KH-2-NL (3/4" x 5/8"); 3/4" METER USE FORD CH88-344-NL; 1" METER USE FORD CH88-444-NL.
11. PENNICHUCK WILL NOT INSTALL METER UNLESS ENTIRE INSTALLATION CONFORMS TO THIS DETAIL.



**PIPE CLAMP (FLOOR)**  
NTS



**PIPE CLAMP (WALL)**  
NTS

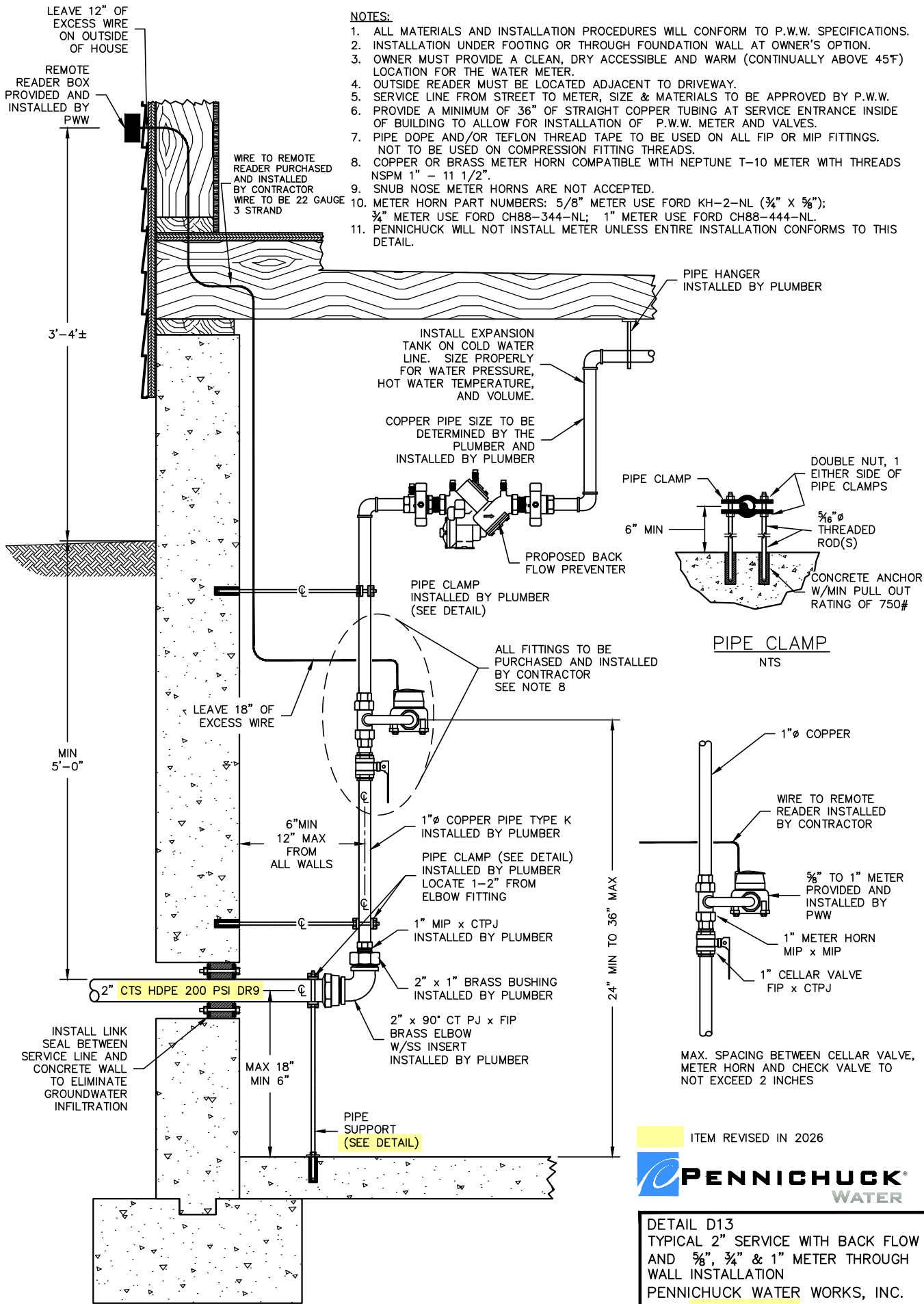


MAX. SPACING BETWEEN CELLAR VALVE, METER HORN AND CHECK VALVE TO NOT EXCEED 2 INCHES

ITEM REVISED IN 2026

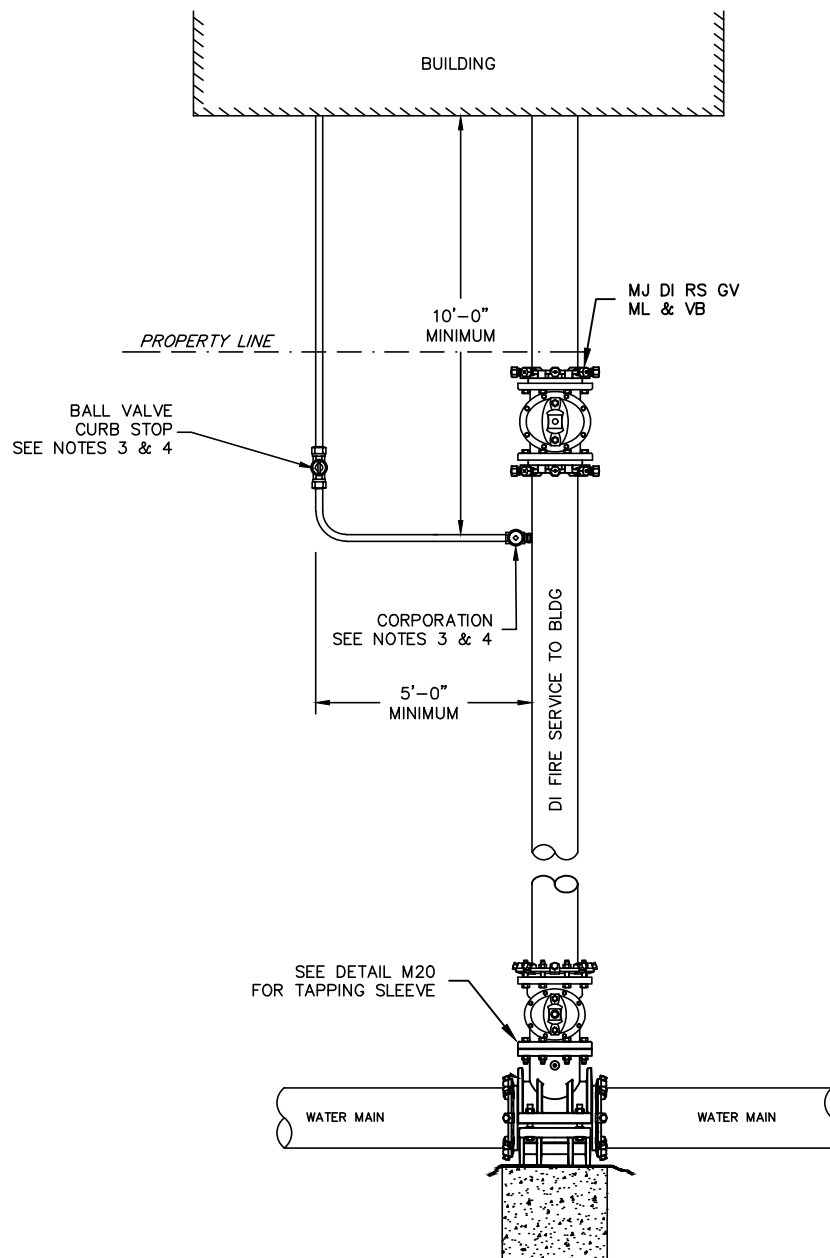


**DETAIL D12**  
 TYPICAL 2" SERVICE WITH BACK FLOW AND 5/8", 3/4" & 1" METER SERVICE THROUGH FLOOR INSTALLATION  
 PENNICHUCK WATER WORKS, INC.  
 REV: 02-20-2026 SCALE: NTS



**NOTES:**

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. SPECIFICATIONS.
2. INSTALLATION UNDER FOOTING OR THROUGH FOUNDATION WALL AT OWNER'S OPTION.
3. OWNER MUST PROVIDE A CLEAN, DRY ACCESSIBLE AND WARM (CONTINUALLY ABOVE 45°F) LOCATION FOR THE WATER METER.
4. OUTSIDE READER MUST BE LOCATED ADJACENT TO DRIVEWAY.
5. SERVICE LINE FROM STREET TO METER, SIZE & MATERIALS TO BE APPROVED BY P.W.W.
6. PROVIDE A MINIMUM OF 36" OF STRAIGHT COPPER TUBING AT SERVICE ENTRANCE INSIDE OF BUILDING TO ALLOW FOR INSTALLATION OF P.W.W. METER AND VALVES.
7. PIPE DOPE AND/OR TEFLON THREAD TAPE TO BE USED ON ALL FIP OR MIP FITTINGS. NOT TO BE USED ON COMPRESSION FITTING THREADS.
8. COPPER OR BRASS METER HORN COMPATIBLE WITH NEPTUNE T-10 METER WITH THREADS NSPM 1" - 1 1/2".
9. SNUB NOSE METER HORNS ARE NOT ACCEPTED.
10. METER HORN PART NUMBERS: 5/8" METER USE FORD KH-2-NL (3/4" x 5/8"); 3/4" METER USE FORD CH88-344-NL; 1" METER USE FORD CH88-444-NL.
11. PENNICHUCK WILL NOT INSTALL METER UNLESS ENTIRE INSTALLATION CONFORMS TO THIS DETAIL.



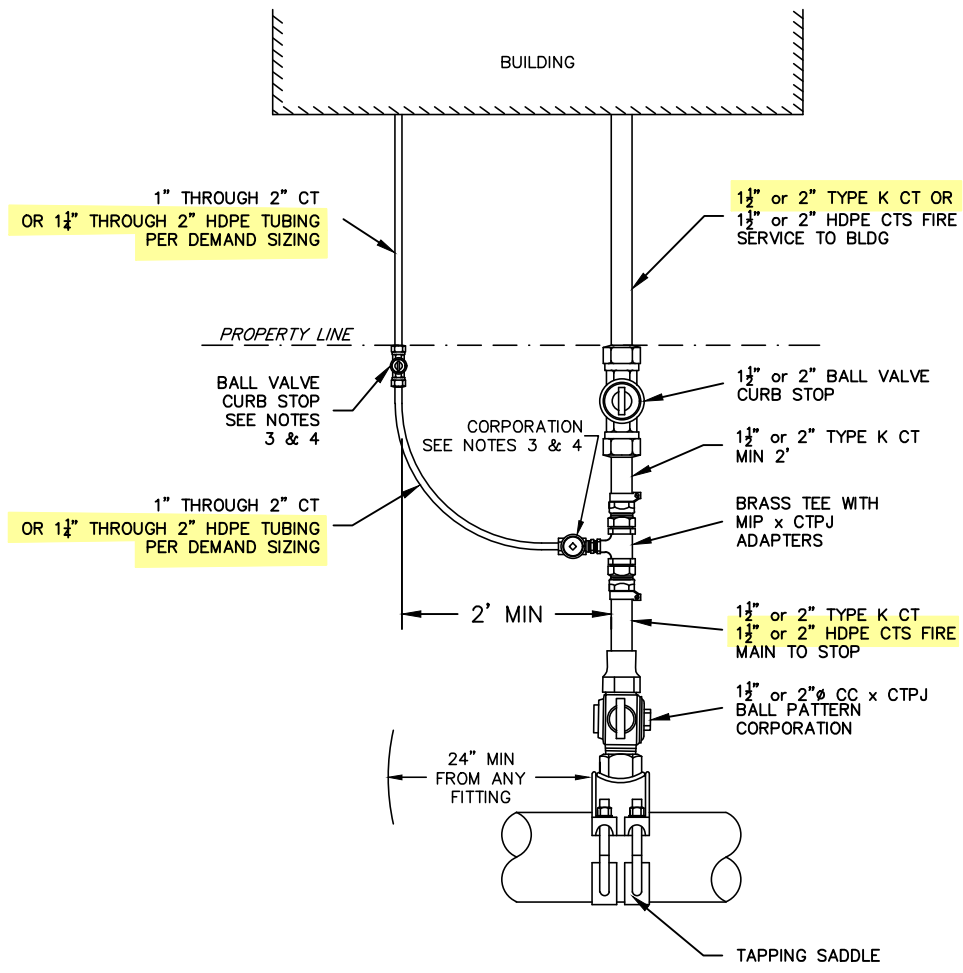
**NOTES:**

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
3. SEE DETAIL D01 AND D03 FOR 1" THROUGH 2" SERVICE AND VALVE BOX INSTALLATION DETAIL.
4. SEE DETAIL M01 FOR TYPICAL SERVICE UTILITY SEPARATION ENTRANCE.

ITEM REVISED IN 2026



DETAIL D15  
 COMMERCIAL SERVICE TAPPED OFF  
 FIRE SERVICE (2" OR SMALLER)  
 PENNICHUCK WATER WORKS, INC.  
 REV: 02-20-2026 SCALE: NTS



**NOTES:**

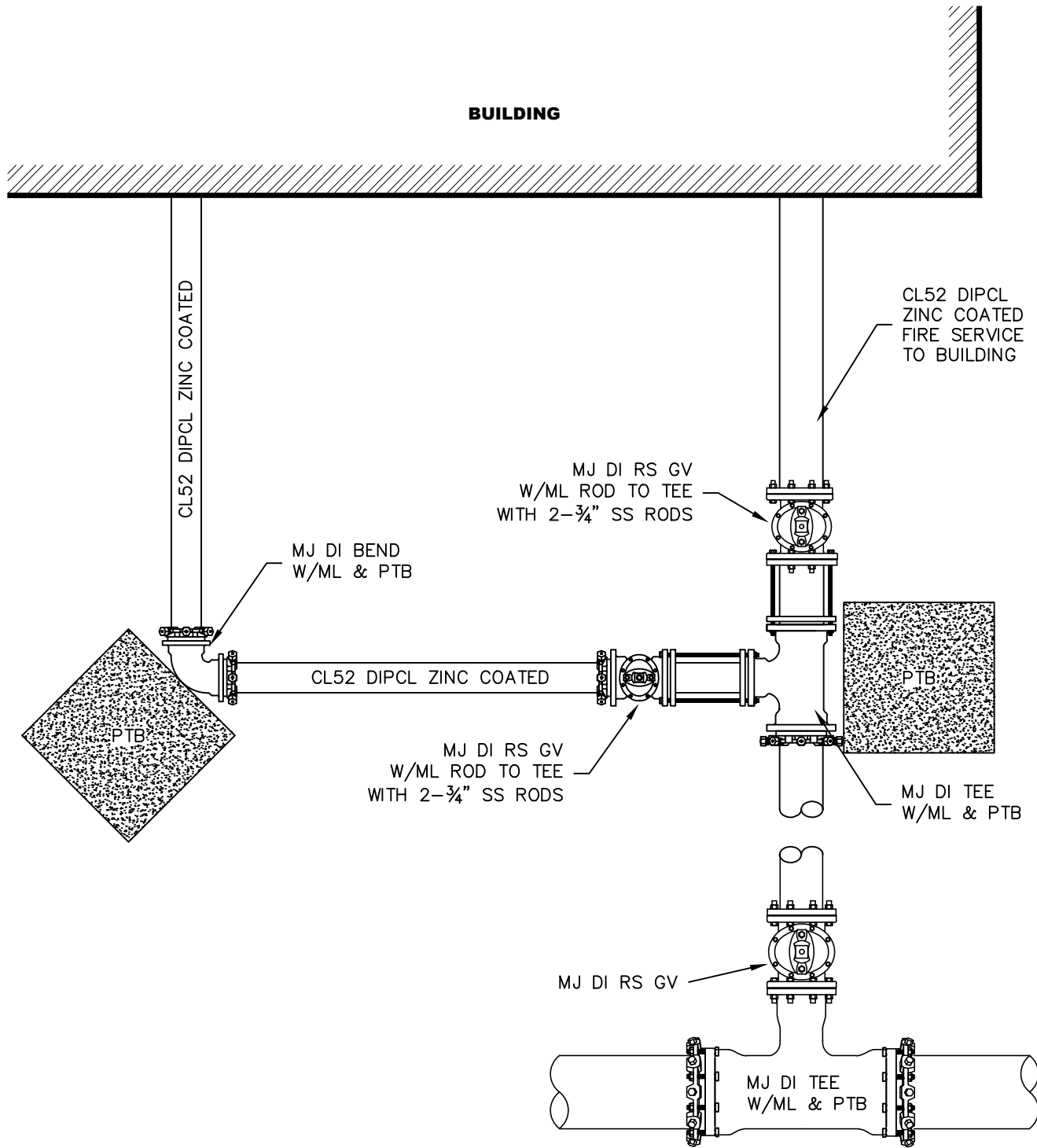
1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
3. INSTALLATION DETAIL. SEE DETAIL D01 FOR 1" THROUGH 2" SIZED SERVICES.
4. SEE DETAIL M01 FOR TYPICAL SERVICE UTILITY SEPARATION ENTRANCE.

ITEM REVISED IN 2026



DETAIL D16  
 RESIDENTIAL SERVICE TAPPED OFF  
 FIRE SERVICE; 1" TO 2"  
 PENNICHUCK WATER WORKS, INC.  
 REV: 02-20-2026 SCALE: NTS

**BUILDING**



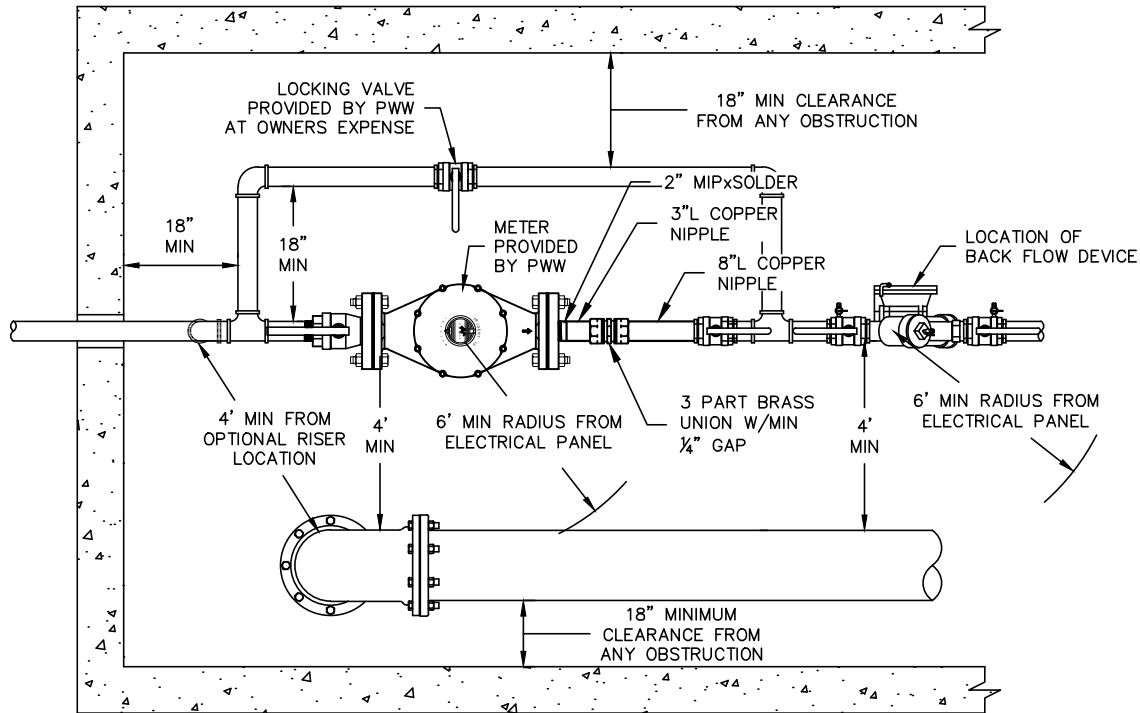
**NOTES:**

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.

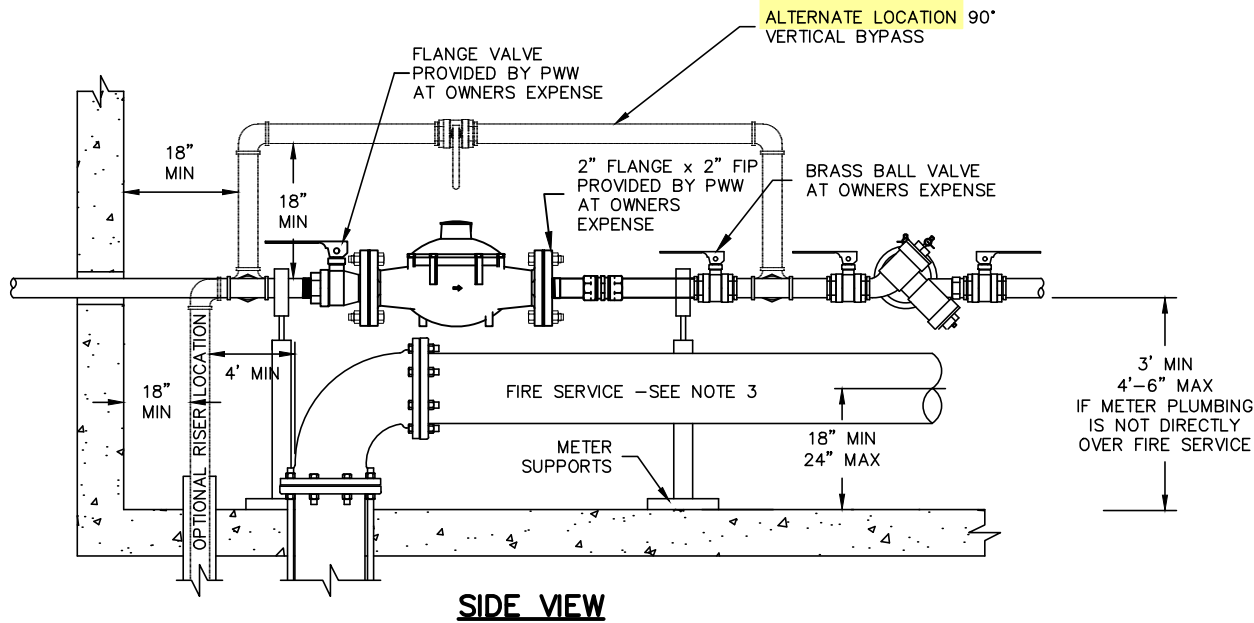
ITEM REVISED IN 2026



DETAIL D17  
**COMMERCIAL SERVICE OFF FIRE SERVICE 4" OR LARGER**  
 PENNICHUCK WATER WORKS, INC.  
 REV: 02-22-2026 SCALE: NTS



**TOP VIEW**



**SIDE VIEW**

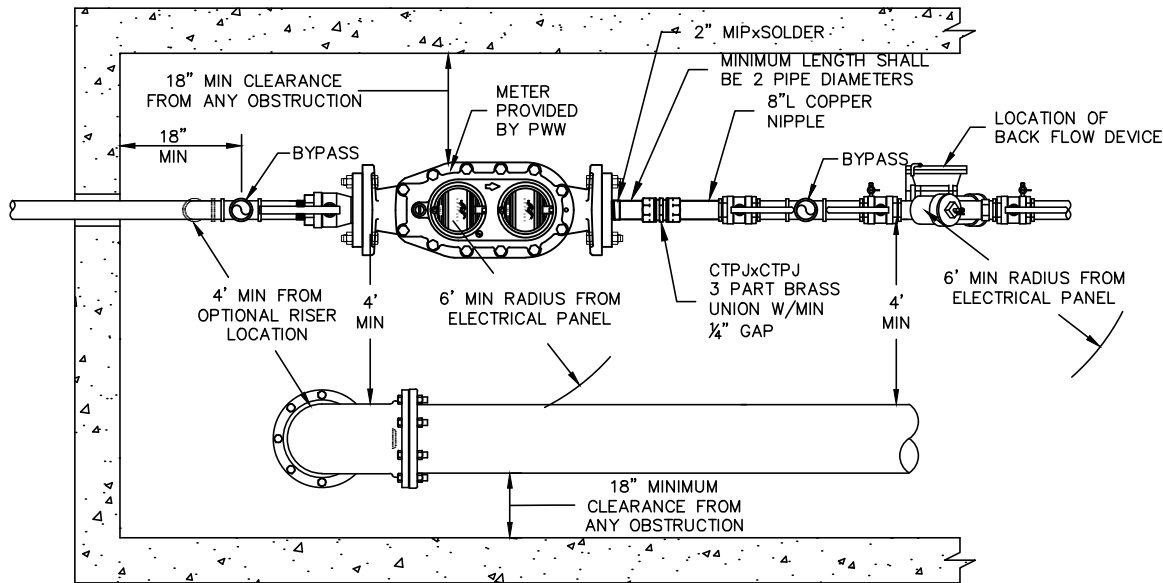
NOTES:

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. PRV WHEN NECESSARY WILL BE INSTALLED AND PURCHASED BY OWNER OR CONTRACTOR.
3. BACK FLOW PREVENTOR REQUIRED ON ALL FIRE SERVICES. TYPE AND LOCATION SUBJECT TO P.W.W. APPROVAL.
4. ANY ELECTRICAL PANEL MUST MAINTAIN A 6' MINIMUM RADIUS FROM METER AND BACK FLOW.
5. 1 1/2" METER = 13" LAYING LENGTH.
6. 2" METER = 17" LAYING LENGTH.
7. MINIMUM OF 10 PIPE DIAMETERS OF STRAIGHT RUN PIPE IS REQUIRED UPSTREAM OF THE METER.

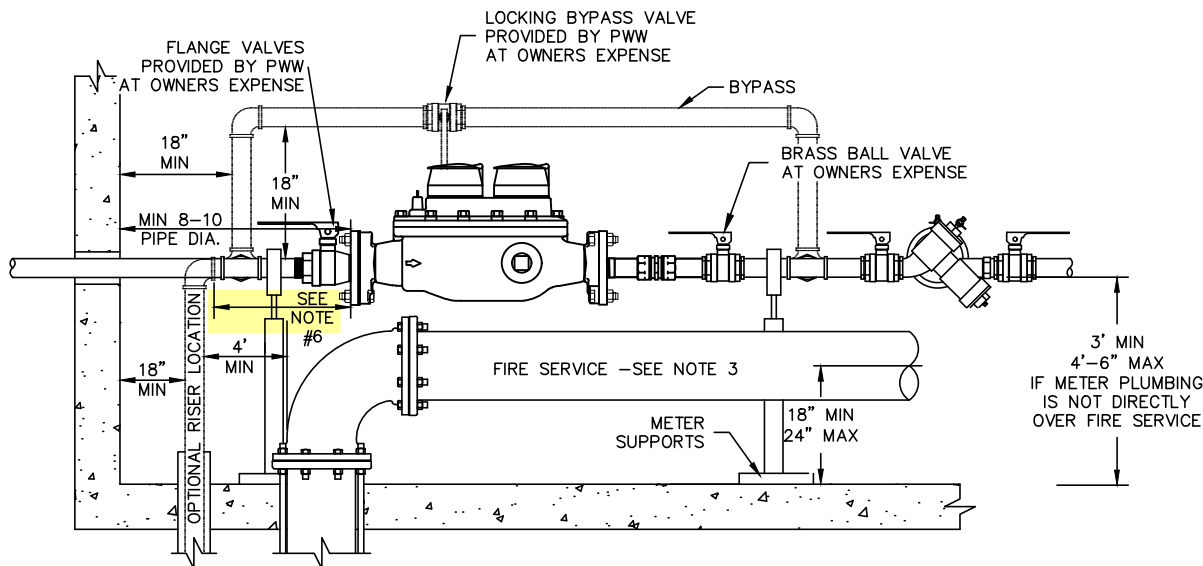
ITEM REVISED IN 2026



DETAIL D18  
 1 1/2" & 2" POSITIVE  
 DISPLACEMENT METER  
 COMBINED FIRE AND DOMESTIC  
 SERVICE ENTRANCE DETAIL  
 PENNICHUCK WATER WORKS, INC.  
 REV: 02-20-2026 SCALE: NTS



**TOP VIEW**



**SIDE VIEW**

**NOTES:**

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. PRV WHEN NECESSARY WILL BE INSTALLED AND PURCHASED BY OWNER OR CONTRACTOR.
3. BACK FLOW PREVENTOR REQUIRED ON ALL FIRE SERVICES. TYPE AND LOCATION SUBJECT TO P.W.W. APPROVAL.
4. ANY ELECTRICAL PANEL MUST MAINTAIN A 6' MINIMUM RADIUS FROM METER AND BACK FLOW.
5. 2" COMPOUND METER = 15 1/4" LAYING LENGTH OF METER.
6. MINIMUM OF 8 PIPE DIAMETERS OF STRAIGHT RUN PIPE IS REQUIRED UPSTREAM OF THE METER IF NO STRAINER IS INSTALLED. IF A STRAINER IS INSTALLED, THIS LENGTH CAN BE REDUCED TO 4 PIPE DIAMETERS. A MINIMUM OF 2 PIPE DIAMETERS OF STRAIGHT RUN PIPE IS REQUIRED DOWNSTREAM OF THE METER AND STRAINER ASSEMBLY.

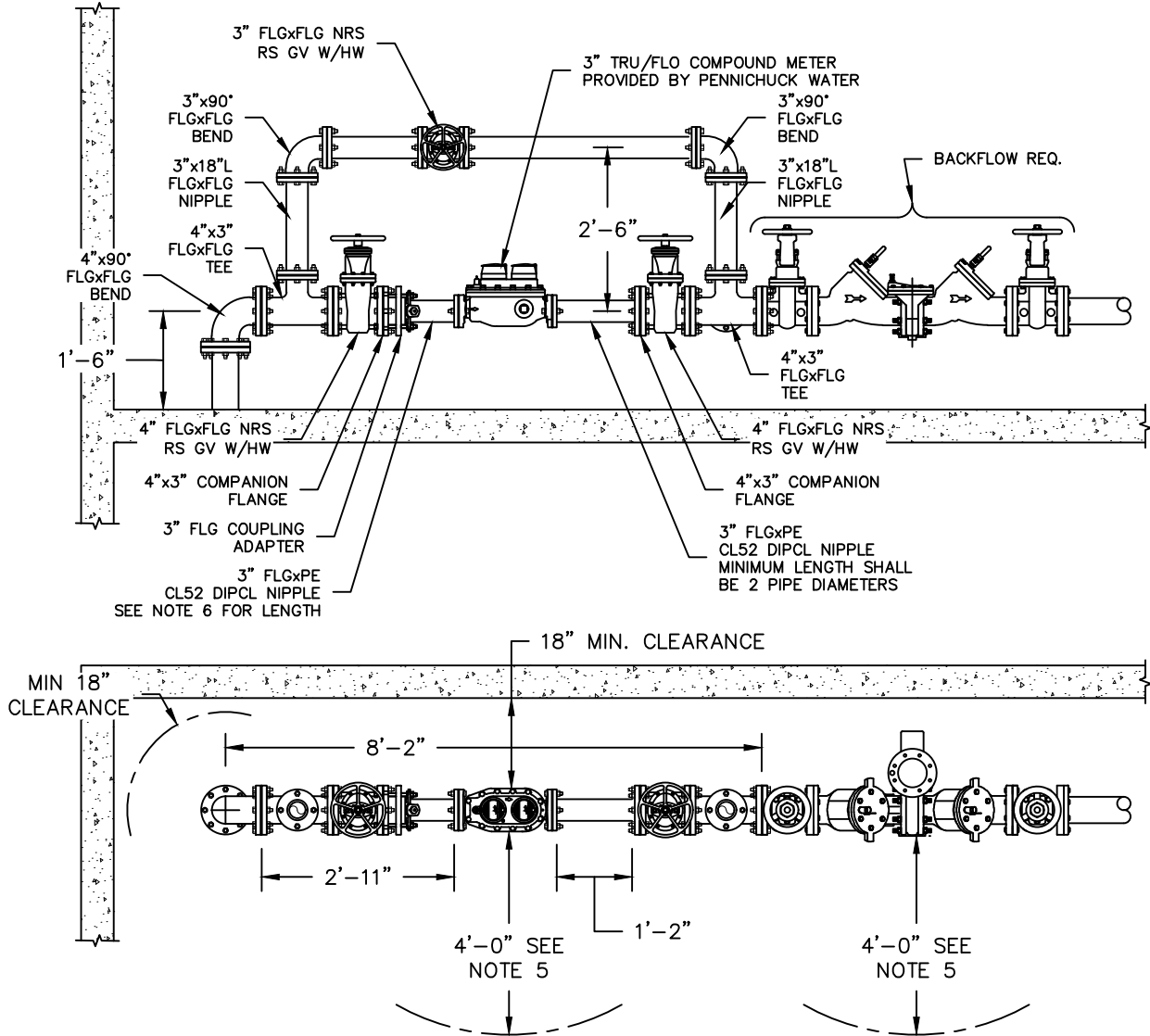
ITEM REVISED IN 2026



DETAIL D19  
**2" TRU/FLO COMPOUND METER**  
**COMBINED FIRE AND DOMESTIC**  
**SERVICE ENTRANCE DETAIL**  
 PENNICHUCK WATER WORKS, INC.  
 REV: 03-15-2026 SCALE: NTS

NOTES:

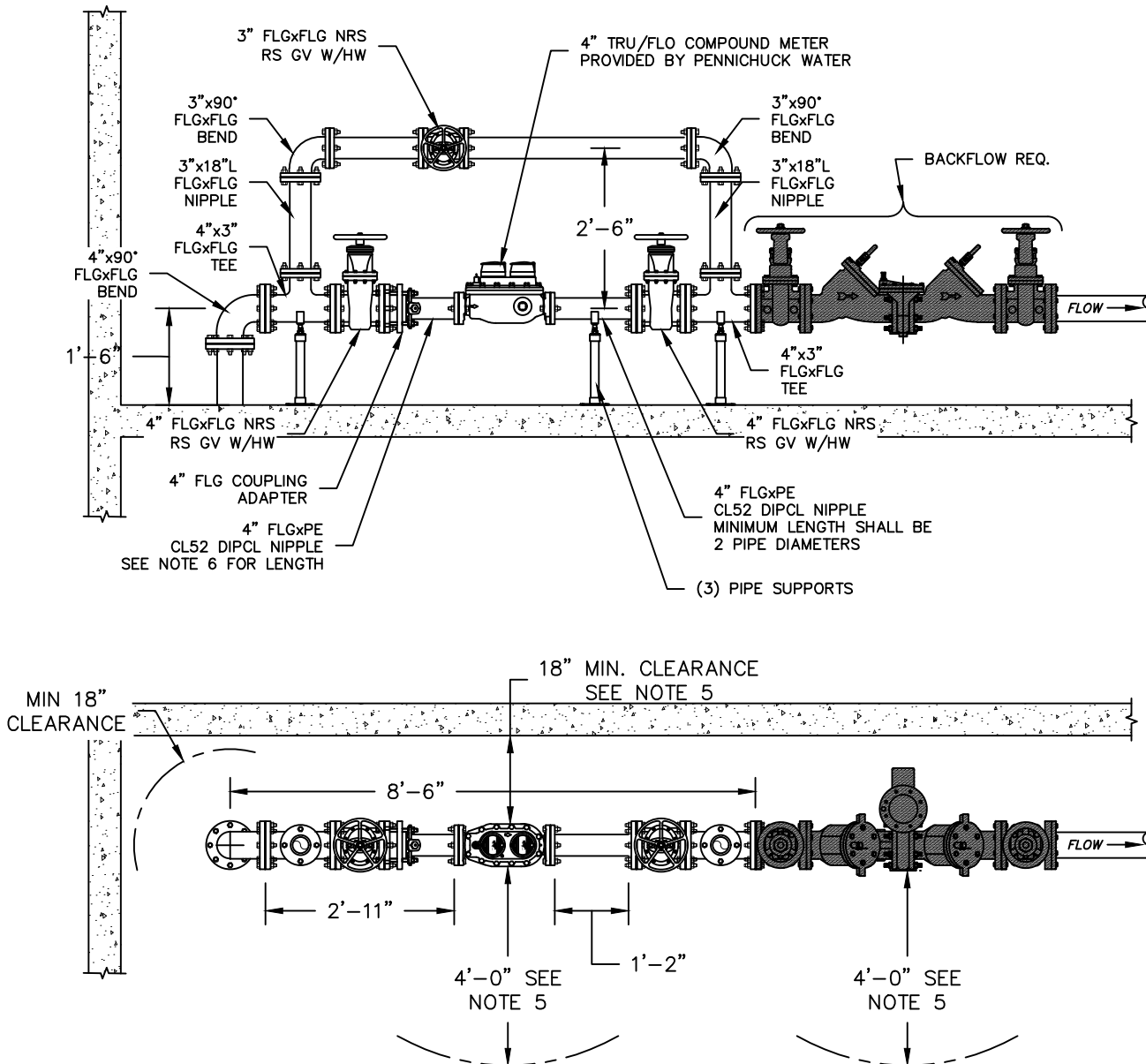
1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. PRV WHEN NECESSARY WILL BE INSTALLED AND PURCHASED BY OWNER OR CONTRACTOR.
3. BACK FLOW PREVENTOR REQUIRED ON ALL FIRE SERVICES. TYPE AND LOCATION SUBJECT TO P.W.W. APPROVAL.
4. ANY ELECTRICAL PANEL MUST MAINTAIN A 6' MINIMUM RADIUS FROM METER AND BACK FLOW.
5. METER PLUMBING MAY BE INSTALLED DIRECTLY OVER THE FIRE SERVICE PROVIDED THAT 2' CLEARANCE IS MAINTAINED AND 4' MINIMUM CLEARANCE FROM ANY OBSTRUCTION IS ALSO MAINTAINED.
6. MINIMUM OF 8 PIPE DIAMETERS OF STRAIGHT RUN PIPE IS REQUIRED UPSTREAM OF THE METER IF NO STRAINER IS INSTALLED. IF A STRAINER IS INSTALLED, THIS LENGTH CAN BE REDUCED TO 4 PIPE DIAMETERS. A MINIMUM OF 2 PIPE DIAMETERS OF STRAIGHT RUN PIPE IS REQUIRED DOWNSTREAM OF THE METER AND STRAINER ASSEMBLY.



ITEM REVISED IN 2026



DETAIL D20  
3" METER DETAIL  
 PENNICHUCK WATER WORKS, INC.  
 REV: 03-15-2026 SCALE: NTS



NOTES:

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. PRV WHEN NECESSARY WILL BE INSTALLED AND PURCHASED BY OWNER OR CONTRACTOR.
3. BACK FLOW PREVENTOR REQUIRED ON ALL FIRE SERVICES. TYPE AND LOCATION SUBJECT TO P.W.W. APPROVAL.
4. ANY ELECTRICAL PANEL MUST MAINTAIN A 6' MINIMUM RADIUS FROM METER AND BACK FLOW.
5. METER PLUMBING MAY BE INSTALLED DIRECTLY OVER THE FIRE SERVICE PROVIDED THAT 2' CLEARANCE IS MAINTAINED AND 4' MINIMUM CLEARANCE FROM ANY OBSTRUCTION IS ALSO MAINTAINED.
6. MINIMUM OF 8 PIPE DIAMETERS OF STRAIGHT RUN PIPE IS REQUIRED UPSTREAM OF THE METER IF NO STRAINER IS INSTALLED. IF A STRAINER IS INSTALLED, THIS LENGTH CAN BE REDUCED TO 4 PIPE DIAMETERS. A MINIMUM OF 2 PIPE DIAMETERS OF STRAIGHT RUN PIPE IS REQUIRED DOWNSTREAM OF THE METER AND STRAINER ASSEMBLY.

ITEM REVISED IN 2026

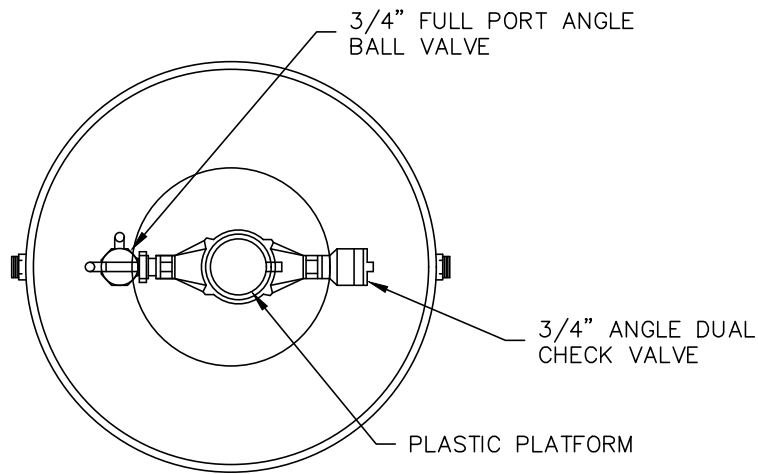


DETAIL D21

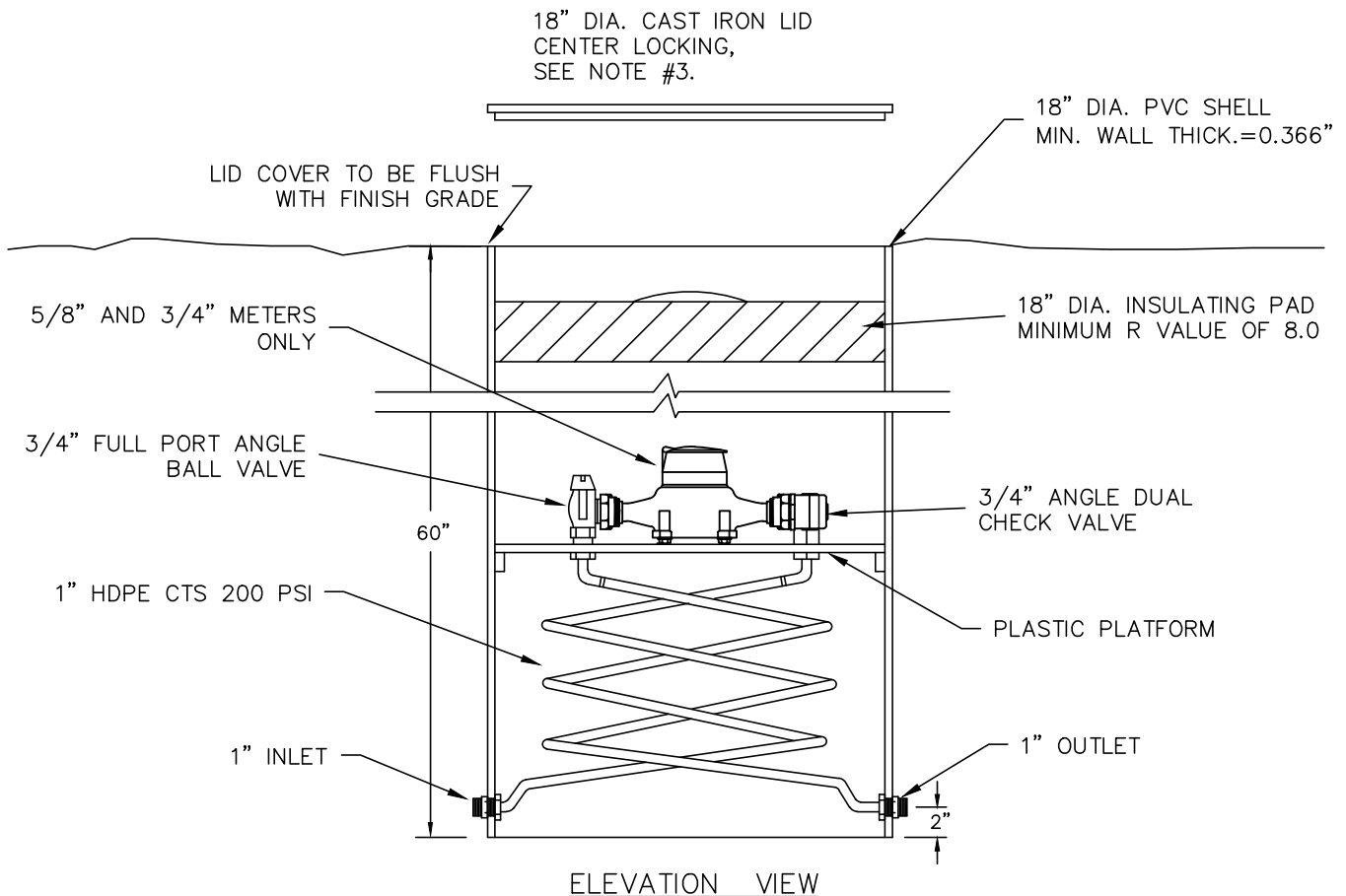
4" METER DETAIL

PENNICHUCK WATER WORKS, INC.

REV: 03-15-2026 SCALE: NTS



PLAN VIEW



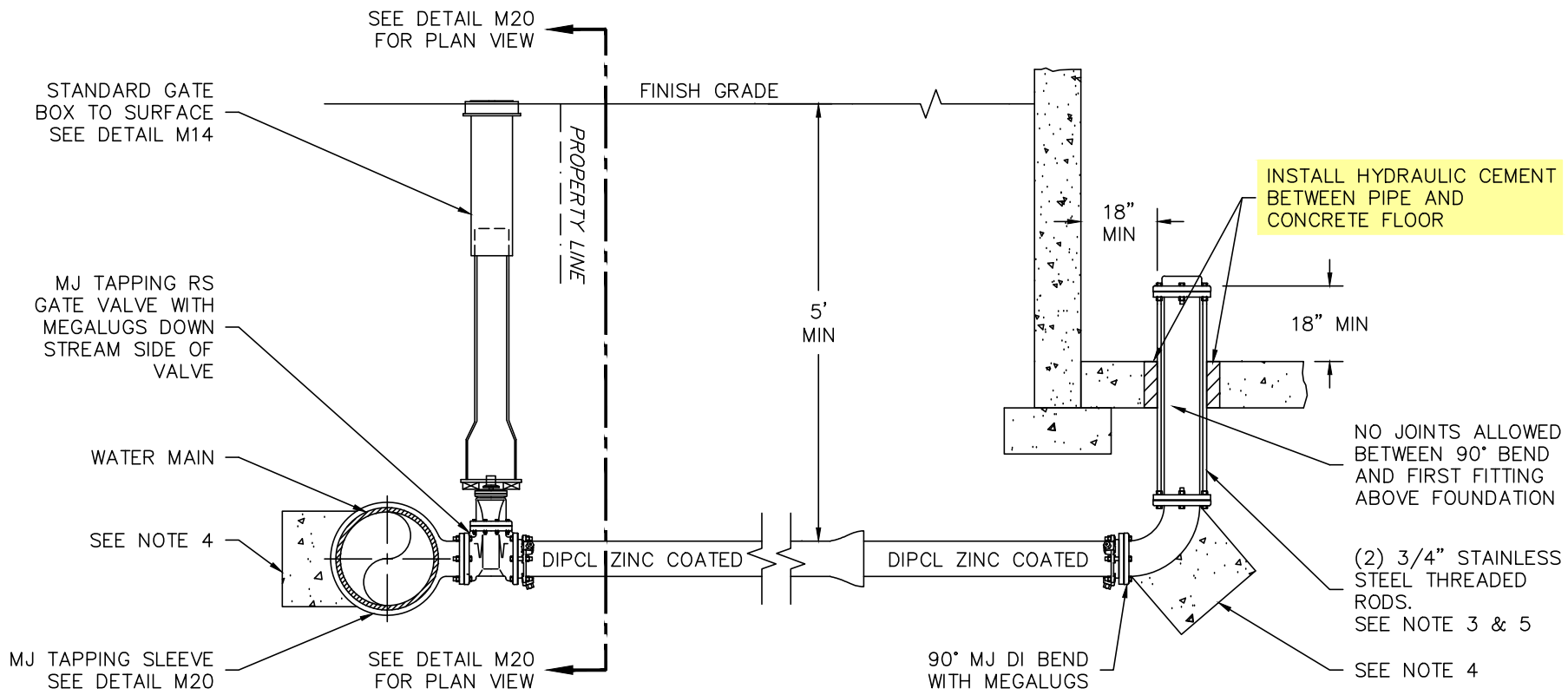
ELEVATION VIEW

**NOTES:**

1. PENNICHUCK WILL PROVIDE AND INSTALL METER IF INSTALLATION CONFORMS TO THIS DETAIL..
2. METER PIT SHALL BE MUELLER HUNT MODEL 203CS1860, FORD 18360-NL, AY McDONALD 790 OR APPROVED EQUAL.
3. PITS INSTALLED IN OR NEAR DRIVEWAYS MUST HAVE AN APPROVED FRAME AND COVER WITH A MINIMUM 20,000 POUND LOAD RATING.
4. ALL COVERS MUST HAVE LOCKING LIDS WITH ELECTRONIC READ CAPABILITIES.



DETAIL D22  
 18" DIAMETER COIL SINGLE  
 METER PIT  
 PENNICHUCK WATER WORKS, INC.  
 DATE: 02-20-2026 SCALE: NTS

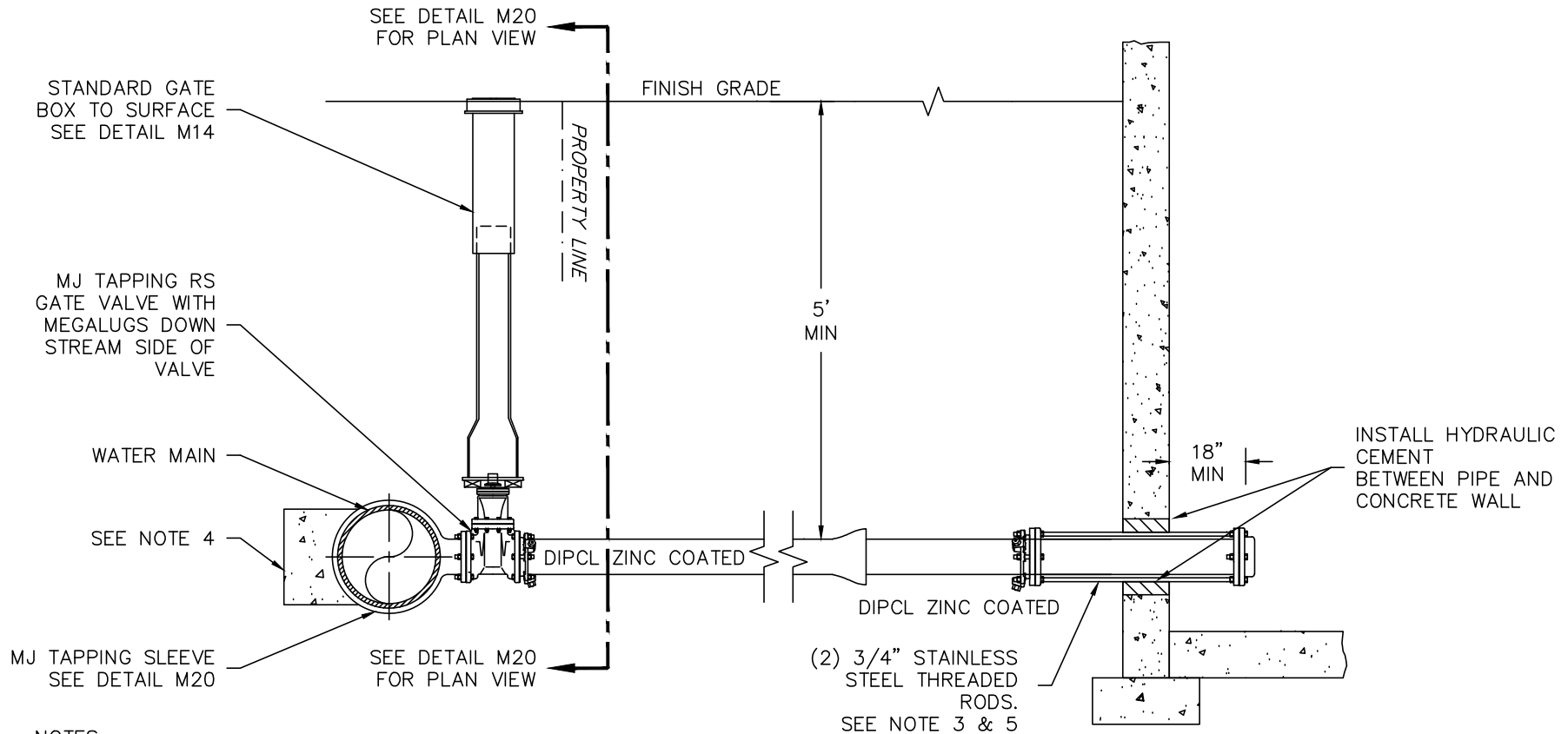


**NOTES:**

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
3. 3/4"φ S.S. RODS SHALL BE USED IN CONJUNCTION WITH REQUIRED S.S. NUTS. RODS ARE TO BE ATTACHED TO FITTINGS WITH EITHER STAR BOLTS OR DUC LUGS. PER SPECIFICATION SECTION 01600.C.16.F  
 10" FITTING OR SMALLER = (2) 3/4"φ S.S. RODS & ASSOC. HARDWARE.  
 12" FITTING OR LARGER = (4) 3/4"φ S.S. RODS & ASSOC. HARDWARE.
4. MIN 2'x2'x3' PRE CAST CONCRETE THRUST BLOCK MAY BE USED WITH P.W.W. APPROVAL OR CONCRETE THRUST BLOCK POURED AGAINST UNDISTURBED EARTH – SIZE TO BE BASED ON SIZE OF FITTING AND PRESSURE IN WATER MAIN. SEE DETAIL M10.
5. ALL MECHANICAL JOINT FITTINGS SEPARATED BY PIPE LENGTH OF 10 FEET OR LESS MUST BE RODDED PER PWW TECHNICAL SPECIFICATION SECTION 01600E.2.F

ITEM REVISED IN 2026

DETAIL F01  
 FIRE SERVICE 4" OR LARGER  
 THRU FLOOR INSTALLATION DETAIL  
 PENNICHUCK WATER WORKS, INC.  
 REV: 02-20-2026 SCALE: NTS



**NOTES:**

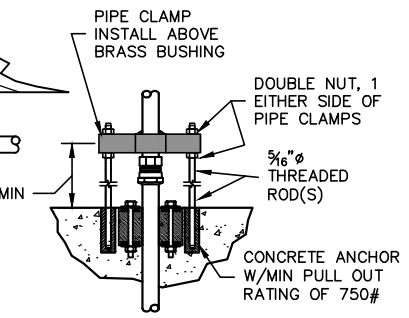
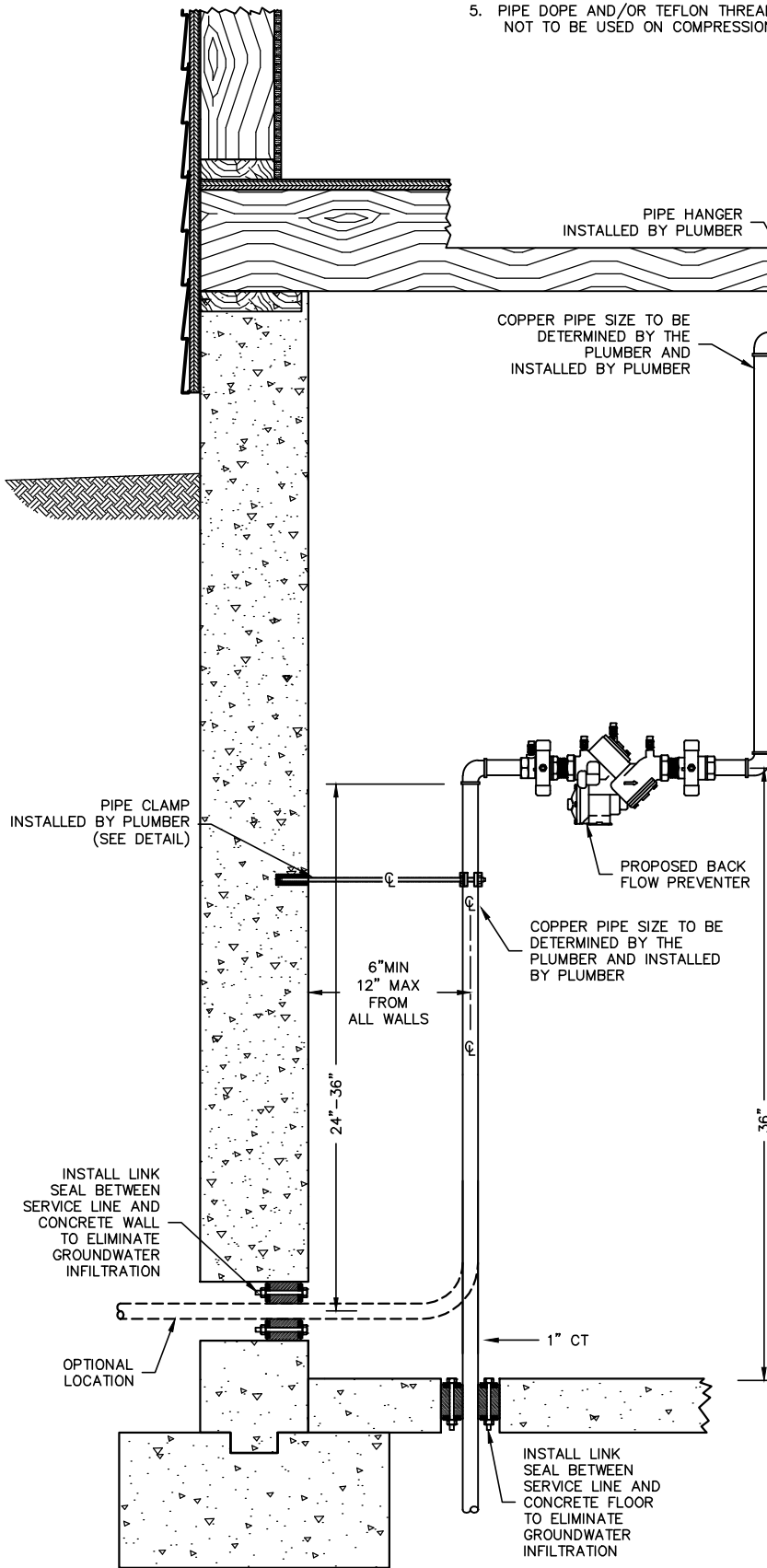
1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
3. 3/4"  $\phi$  S.S. RODS SHALL BE USED IN CONJUNCTION WITH REQUIRED S.S. NUTS. RODS ARE TO BE ATTACHED TO FITTINGS WITH EITHER STAR BOLTS OR DUC LUGS. PER SPECIFICATION SECTION 01600.C.16.F  
 10" FITTING OR SMALLER = (2) 3/4"  $\phi$  S.S. RODS & ASSOC. HARDWARE.  
 12" FITTING OR LARGER = (4) 3/4"  $\phi$  S.S. RODS & ASSOC. HARDWARE.
4. MIN 2'x2'x3' PRE CAST CONCRETE THRUST BLOCK MAY BE USED WITH P.W.W. APPROVAL OR CONCRETE THRUST BLOCK POURED AGAINST UNDISTURBED EARTH - SIZE TO BE BASED ON SIZE OF FITTING AND PRESSURE IN WATER MAIN. SEE DETAIL M10.
5. ALL MECHANICAL JOINT FITTINGS SEPARATED BY PIPE LENGTH OF 10 FEET OR LESS MUST BE RODDED PER PWW TECHNICAL SPECIFICATION SECTION 01600E.2.F



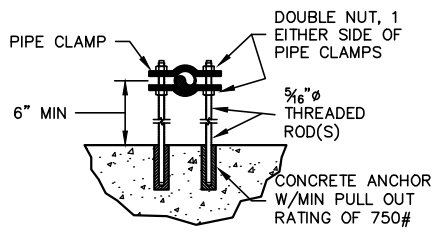
DETAIL F02  
 FIRE SERVICE 4" OR LARGER  
 THRU WALL INSTALLATION DETAIL  
 PENNICHUCK WATER WORKS, INC.  
 REV: 02-20-2026 SCALE: NTS

**NOTES:**

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. SPECIFICATIONS.
2. INSTALLATION UNDER FOOTING OR THROUGH FOUNDATION WALL AT OWNER'S OPTION.
3. OWNER MUST PROVIDE A CLEAN, DRY ACCESSIBLE AND WARM (CONTINUALLY ABOVE 45°F) LOCATION FOR THE BACKFLOW PREVENTER.
4. SERVICE LINE FROM STREET SIZE & MATERIALS TO BE APPROVED BY P.W.W.
5. PIPE DOPE AND/OR TEFLON THREAD TAPE TO BE USED ON ALL FIP OR MIP FITTINGS. NOT TO BE USED ON COMPRESSION FITTING THREADS.



**PIPE CLAMP (FLOOR)**  
NTS



**PIPE CLAMP (WALL)**  
NTS

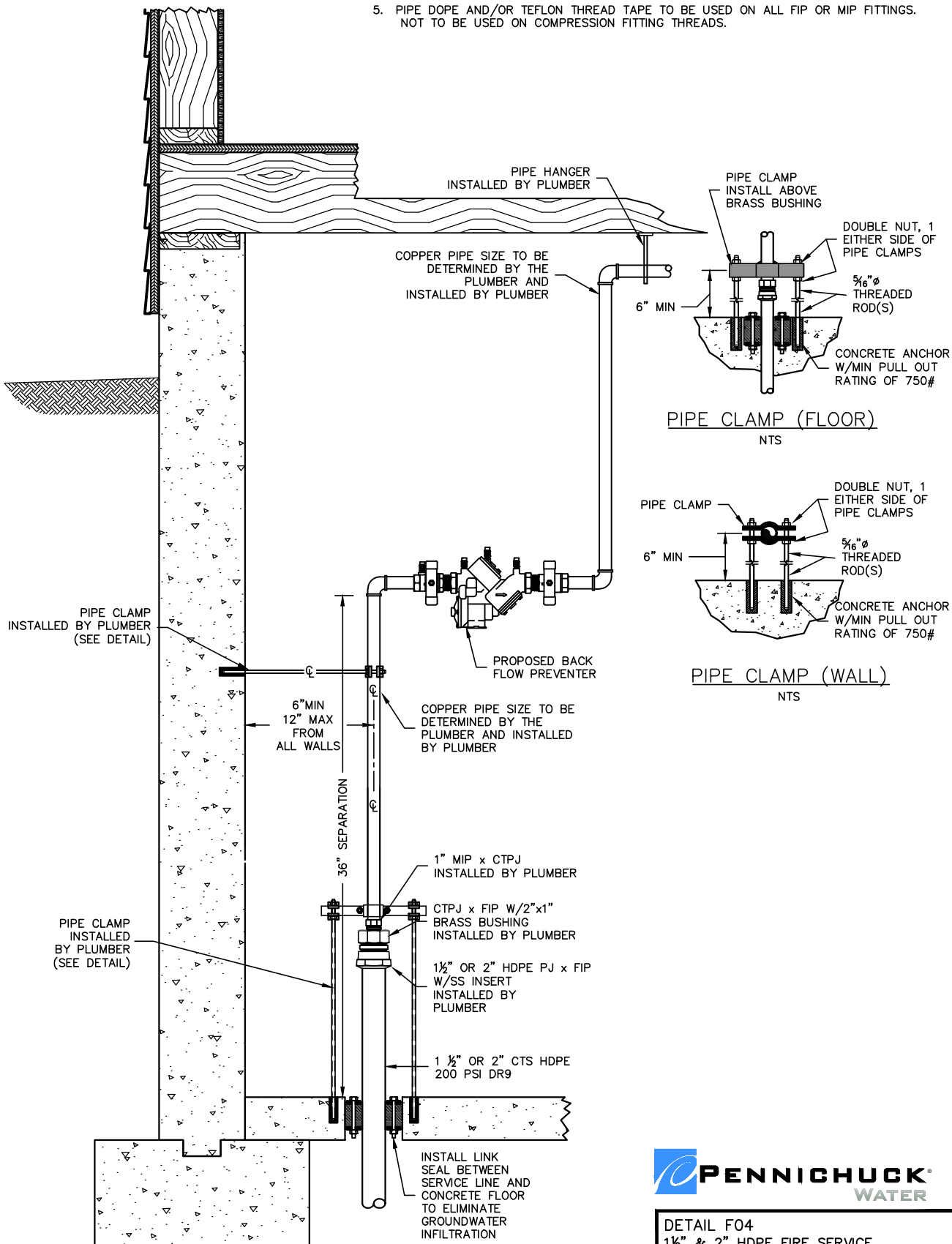


DETAIL F03  
1" CT FIRE SERVICE CONNECTION

PENNICHUCK WATER WORKS, INC.  
DATE: 02-20-2026 SCALE: NTS

**NOTES:**

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. SPECIFICATIONS.
2. INSTALLATION UNDER FOOTING OR THROUGH FOUNDATION WALL AT OWNER'S OPTION.
3. OWNER MUST PROVIDE A CLEAN, DRY ACCESSIBLE AND WARM (CONTINUALLY ABOVE 45°F) LOCATION FOR THE BACKFLOW PREVENTER.
4. SERVICE LINE FROM STREET SIZE & MATERIALS TO BE APPROVED BY P.W.W.
5. PIPE DOPE AND/OR TEFLON THREAD TAPE TO BE USED ON ALL FIP OR MIP FITTINGS. NOT TO BE USED ON COMPRESSION FITTING THREADS.



**PIPE CLAMP (FLOOR)**  
NTS

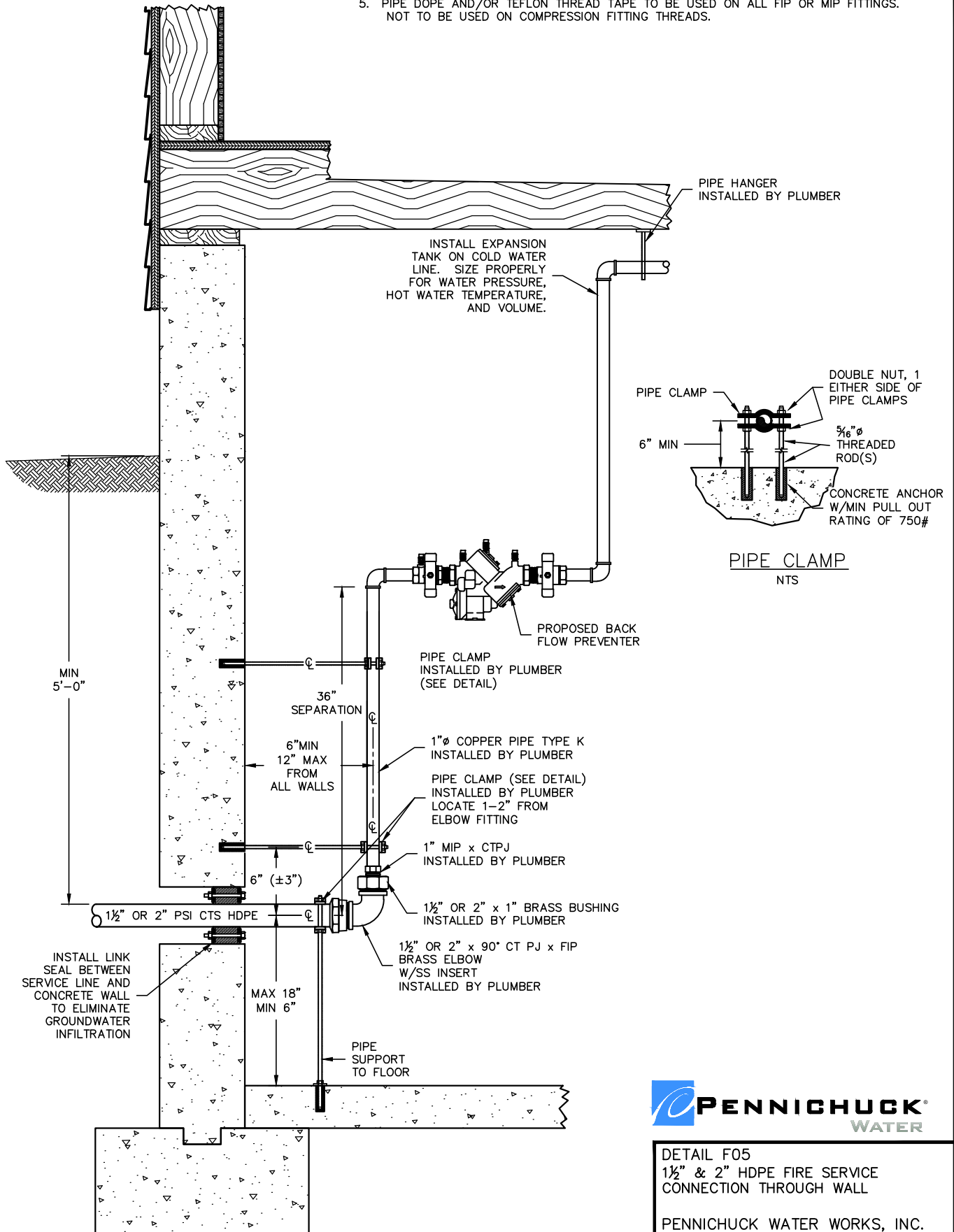
**PIPE CLAMP (WALL)**  
NTS



**DETAIL F04**  
 1½" & 2" HDPE FIRE SERVICE  
 CONNECTION THROUGH FLOOR  
 INSTALLATION  
 PENNICHUCK WATER WORKS, INC.  
 REV: 02-20-2026 SCALE: NTS

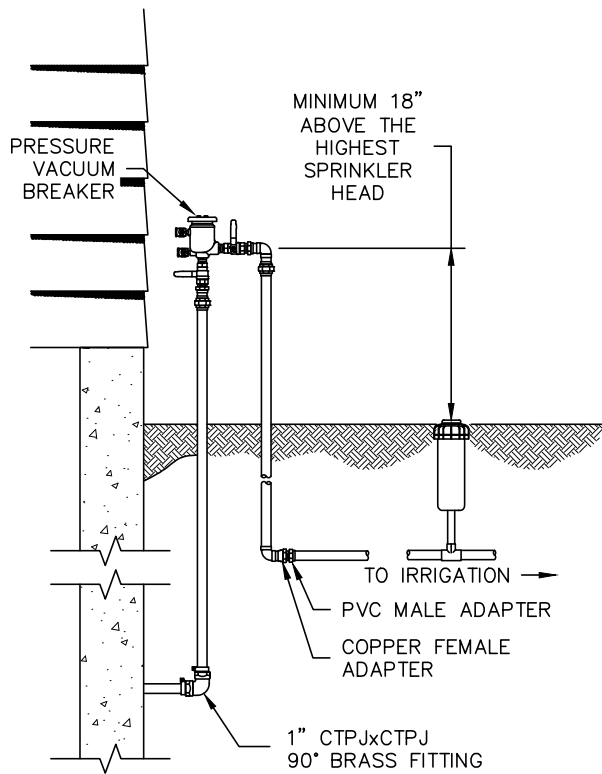
**NOTES:**

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. SPECIFICATIONS.
2. INSTALLATION UNDER FOOTING OR THROUGH FOUNDATION WALL AT OWNER'S OPTION.
3. OWNER MUST PROVIDE A CLEAN, DRY ACCESSIBLE AND WARM (CONTINUALLY ABOVE 45°F) LOCATION FOR THE BSCK FLOW PREVENTER.
4. SERVICE LINE FROM STREET SIZE & MATERIALS TO BE APPROVED BY P.W.W.
5. PIPE DOPE AND/OR TEFLON THREAD TAPE TO BE USED ON ALL FIP OR MIP FITTINGS. NOT TO BE USED ON COMPRESSION FITTING THREADS.

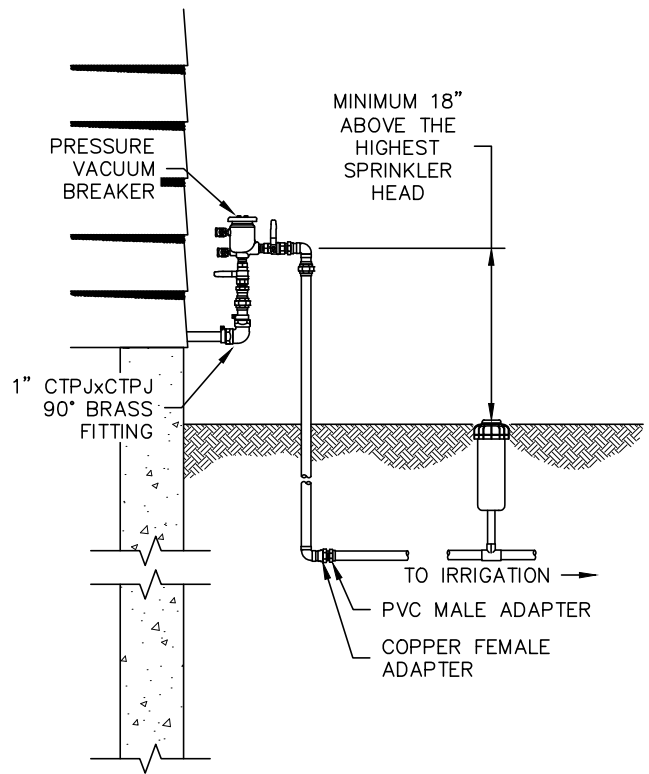


DETAIL F05  
 1 1/2" & 2" HDPE FIRE SERVICE  
 CONNECTION THROUGH WALL

PENNICHUCK WATER WORKS, INC.  
 DATE: 02-20-2026 SCALE: NTS



OPTION "A"  
THROUGH FOUNDATION WALL

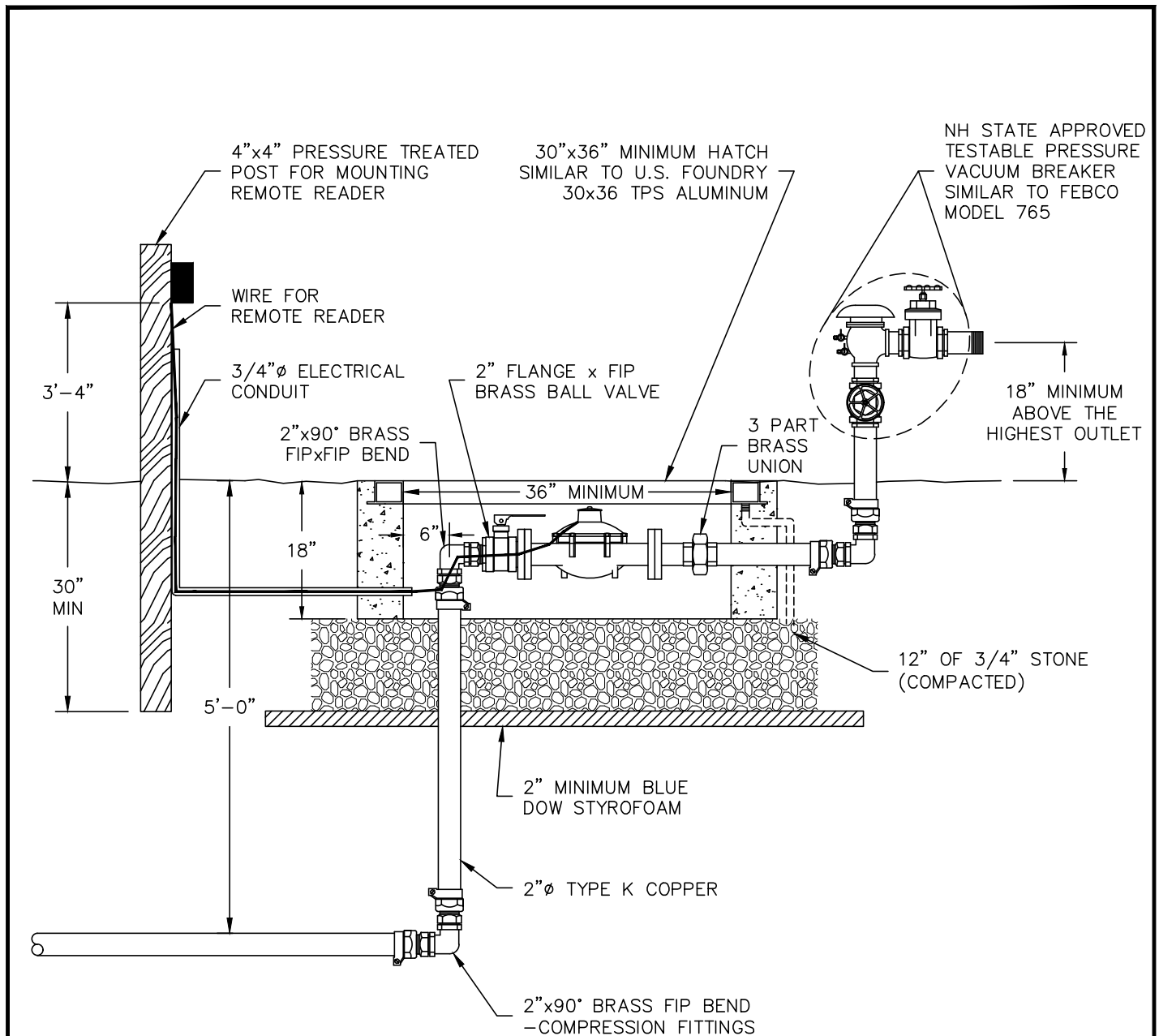


OPTION "B"  
THROUGH HOUSE WALL



DETAIL L01  
1" IRRIGATION SETUP OPTIONS

PENNICHUCK WATER WORKS, INC.  
REV: 03-18 SCALE: NTS

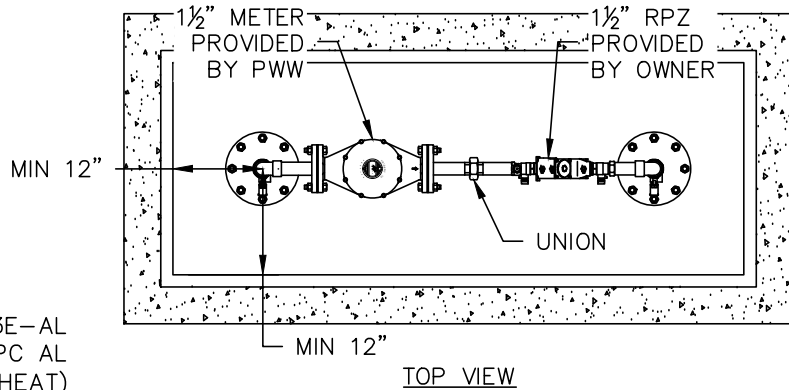


**NOTES:**

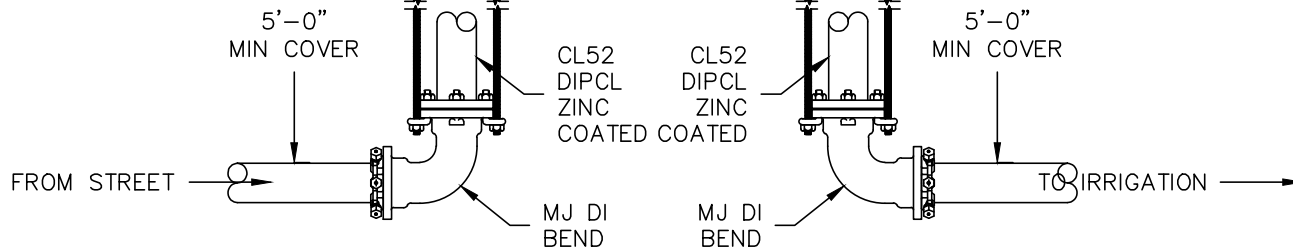
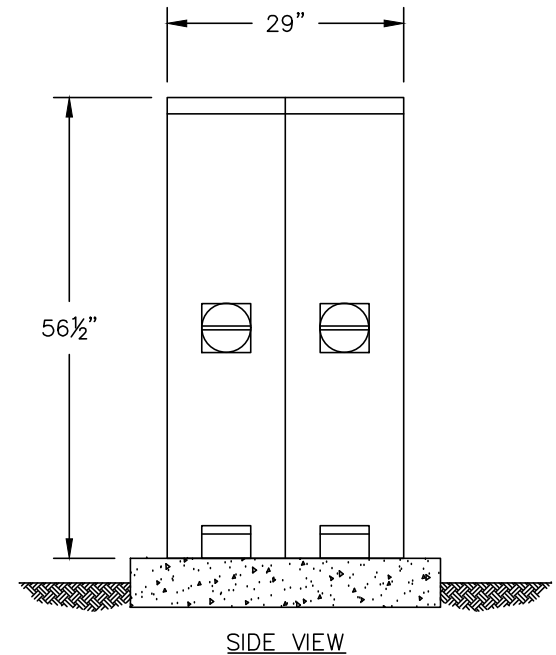
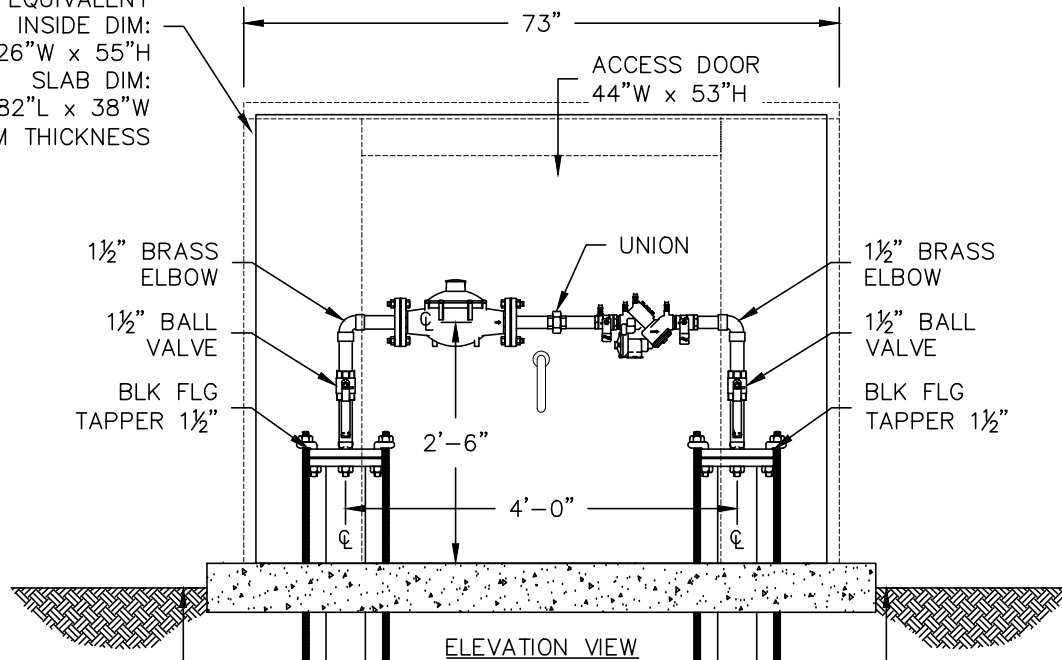
1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
3. PRV WHEN NECESSARY WILL BE INSTALLED AND PURCHASED BY OWNER OR CONTRACTOR.
4. METER WIRE TO BE 22 AWG 3-STRAND (BLACK/RED/GREEN COLOR CODE) SOLID CORE CABLE AVAILABLE FROM:  
ACT SERVICES, INC.  
916 PLEASANT STREET  
SUITE 3A  
NORWOOD, MA 02062  
TEL. (781) 255-0978



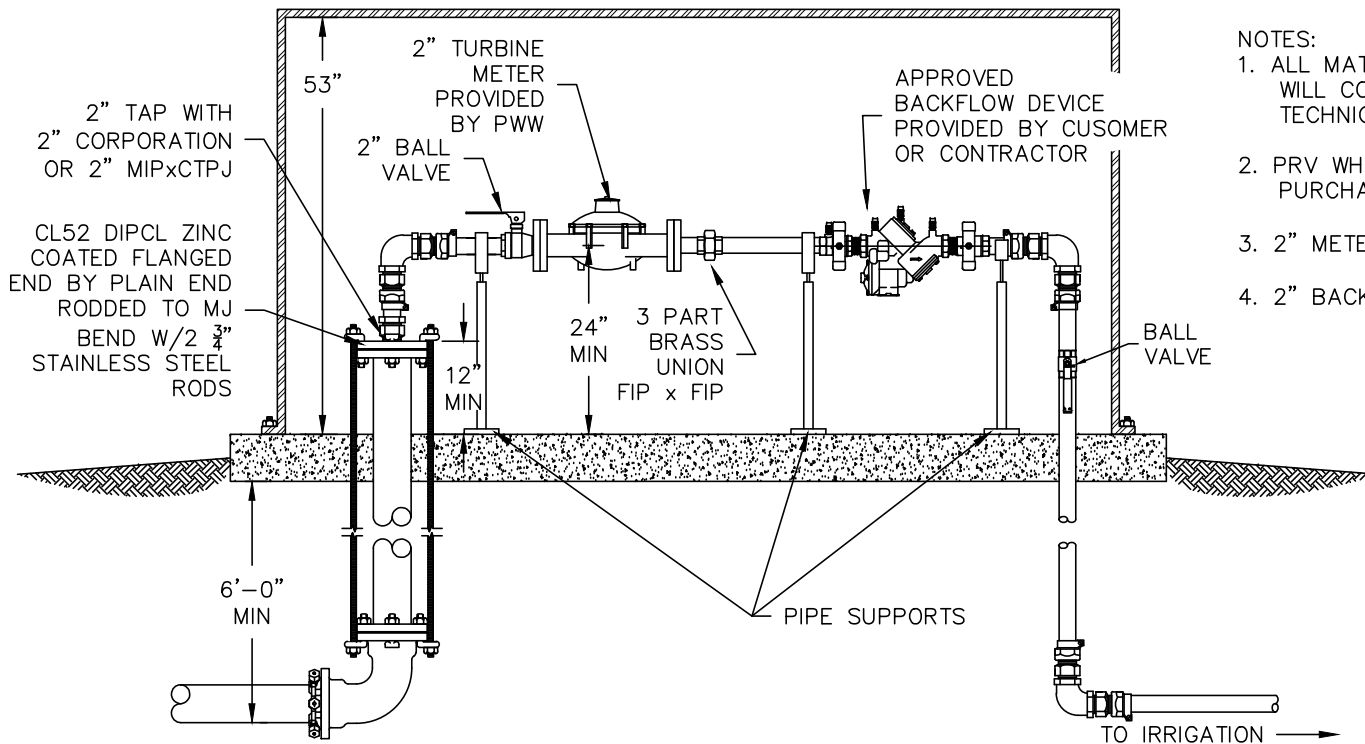
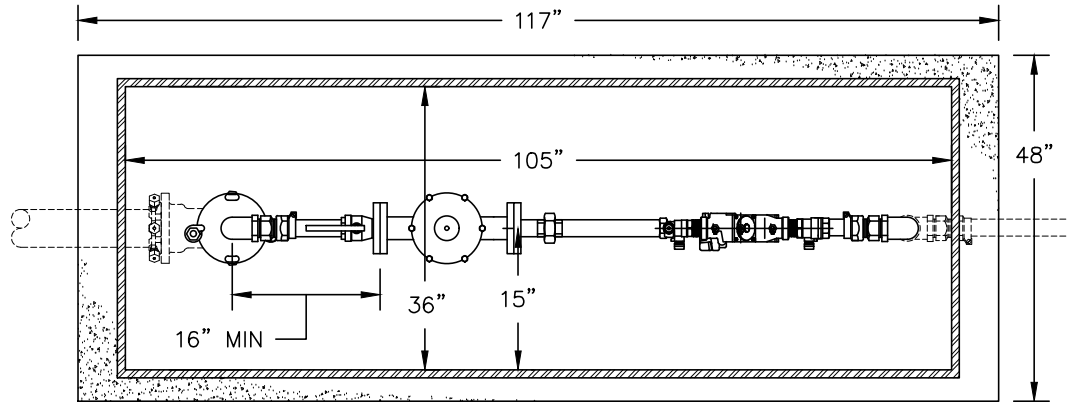
DETAIL L02  
 TYPICAL SHALLOW 2" IRRIGATION  
 METER PIT DETAIL  
 PENNICHUCK WATER WORKS, INC.  
 REV: 03-18 SCALE: NTS



HOT BOX® MODEL LB3E-AL  
 (STANDARD 2-PC AL  
 ENCLOSURE NO HEAT)  
 or EQUIVALENT  
 INSIDE DIM:  
 70"L x 26"W x 55"H  
 SLAB DIM:  
 82"L x 38"W  
 4" MINIMUM THICKNESS



DETAIL L03  
 TYPICAL 1/2" ABOVE GROUND  
 IRRIGATION METER VAULT  
 PENNICHUCK WATER WORKS, INC.  
 REV: 03-18 SCALE: NTS



NOTES:

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. PRV WHEN NECESSARY WILL BE INSTALLED AND PURCHASED BY OWNER OR CONTRACTOR.
3. 2" METER = 17" LAYING LENGTH.
4. 2" BACKFLOW = 20" LAYING LENGTH. (APPROX)



DETAIL L04  
2" ABOVE GROUND IRRIGATION  
TYPICAL DETAIL  
 PENNICHUCK WATER WORKS, INC.  
 REV: 03-18 SCALE: NTS

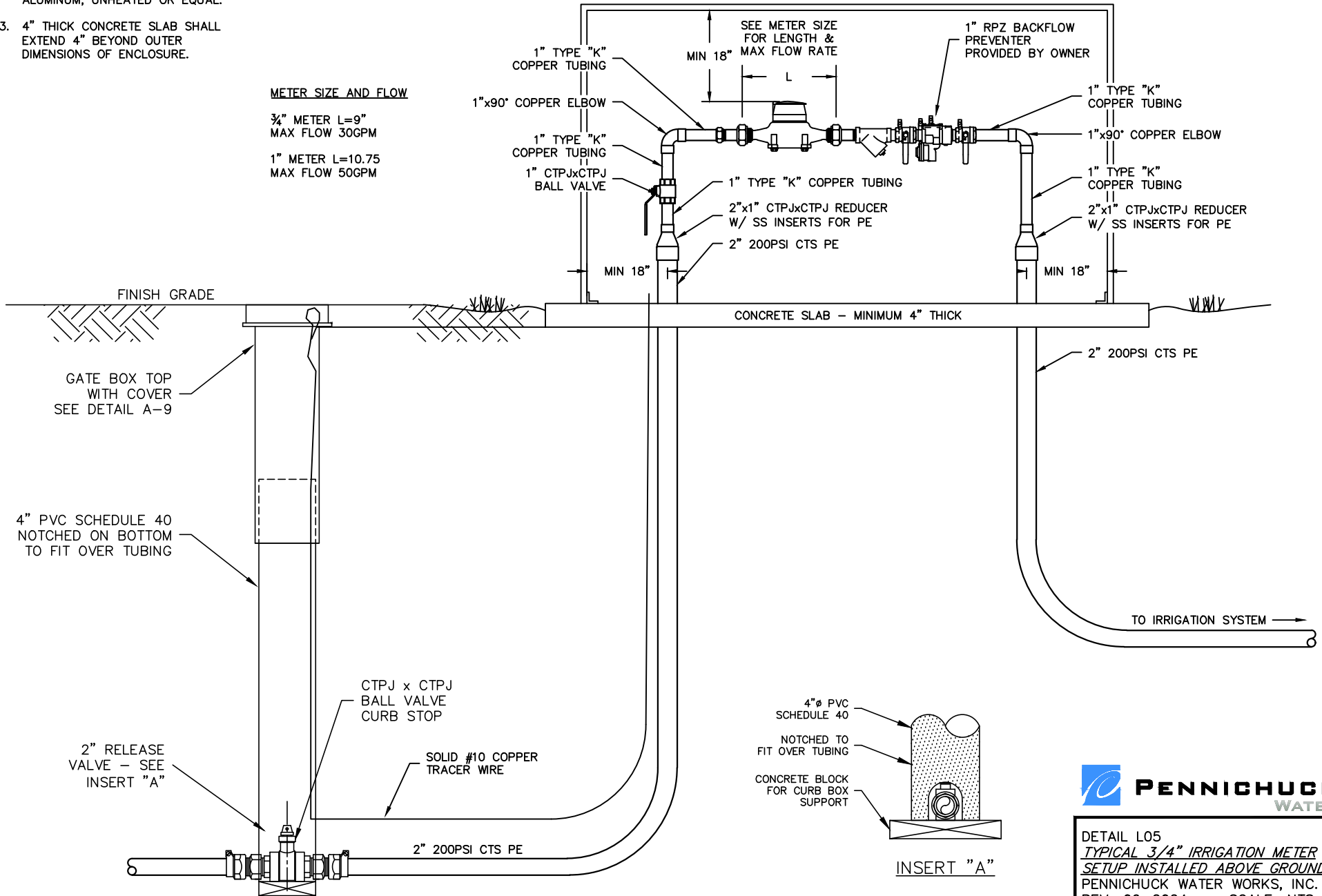
**NOTE:**

1. METER AND TAIL PIECES SUPPLIED BY PWW
2. ENCLOSURE SHALL BE HOT BOX MODEL LB3E-DS DUAL SECTION ALUMINUM, UNHEATED OR EQUAL.
3. 4" THICK CONCRETE SLAB SHALL EXTEND 4" BEYOND OUTER DIMENSIONS OF ENCLOSURE.

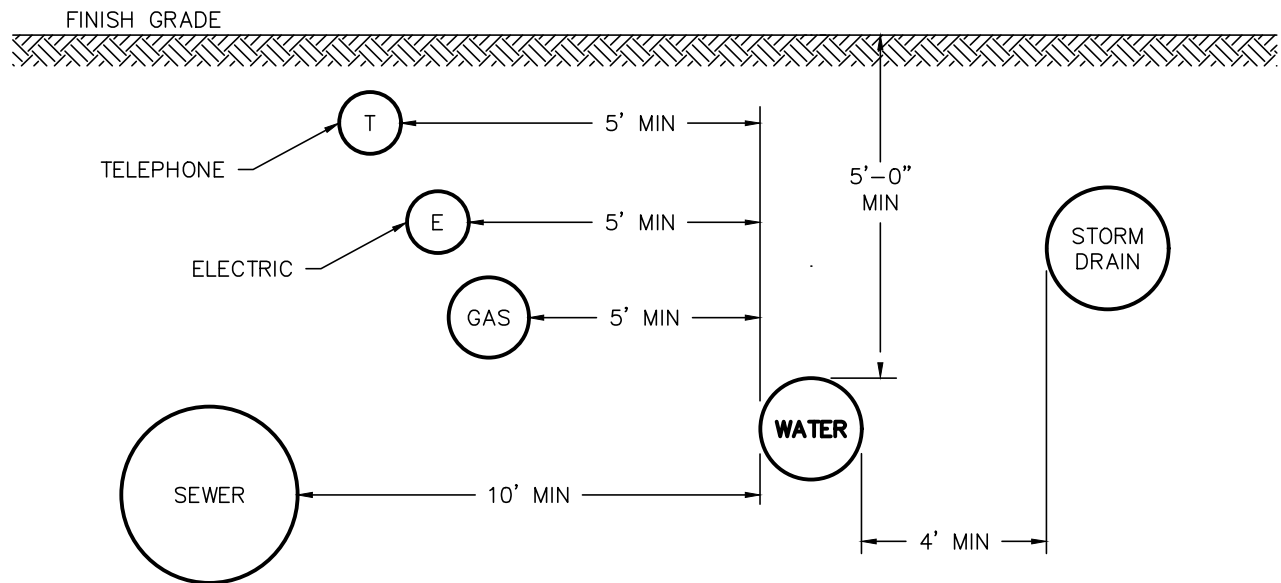
**METER SIZE AND FLOW**

3/4" METER L=9"  
MAX FLOW 30GPM

1" METER L=10.75"  
MAX FLOW 50GPM



DETAIL L05  
TYPICAL 3/4" IRRIGATION METER  
SETUP INSTALLED ABOVE GROUND  
PENNICHUCK WATER WORKS, INC.  
REV: 06-2024 SCALE: NTS

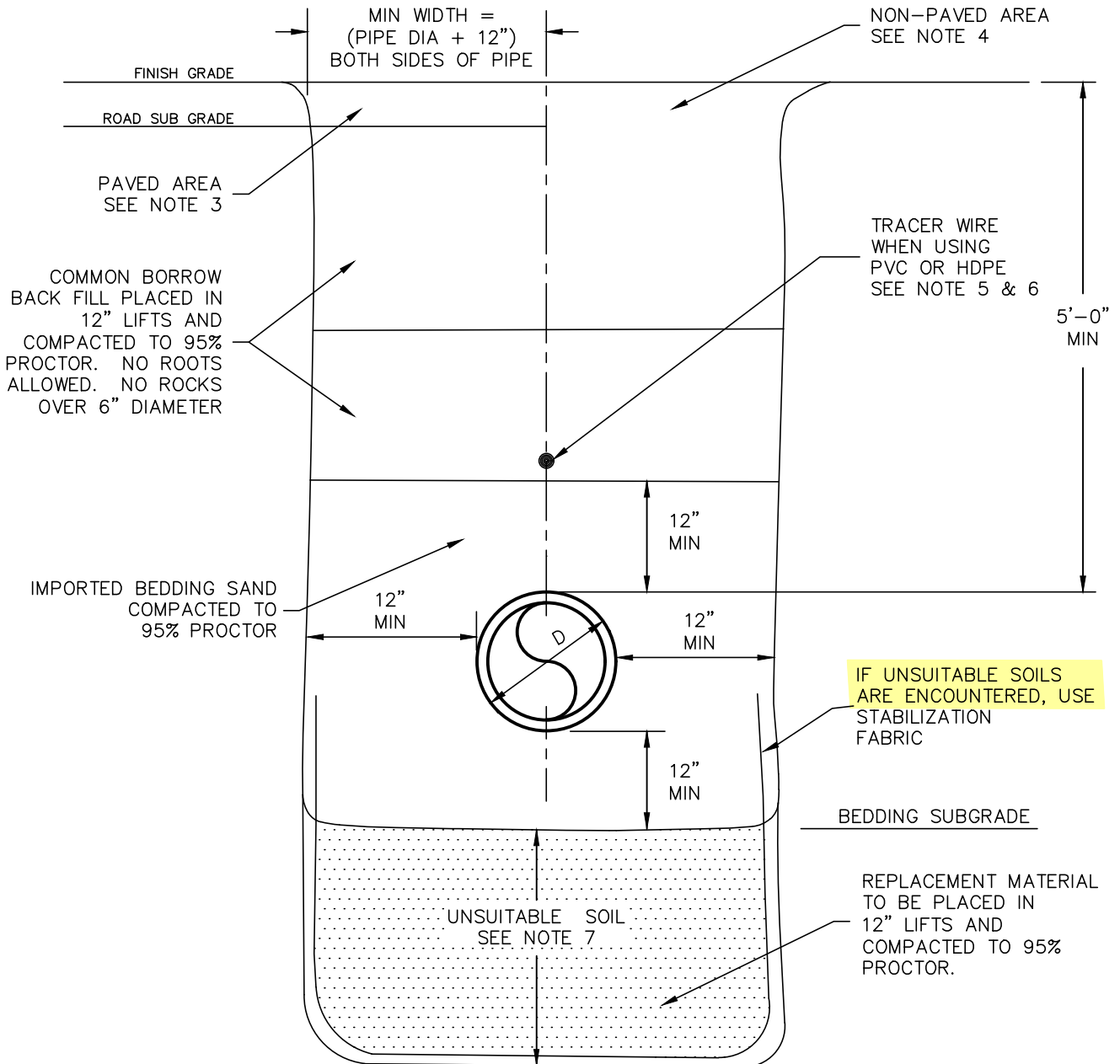


**NOTES:**

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. ALL WATER MAIN SHOULD HAVE A MINIMUM DEPTH OF 5'-0" OF COVER TO FINISH GRADE.
3. SEE DETAIL M02 FOR TRENCH DETAIL.



DETAIL M01  
 TYPICAL UTILITY SEPARATION  
 (MAIN) DETAIL  
 PENNICHUCK WATER WORKS, INC.  
 REV: 03-18 SCALE: NTS



**NOTES:**

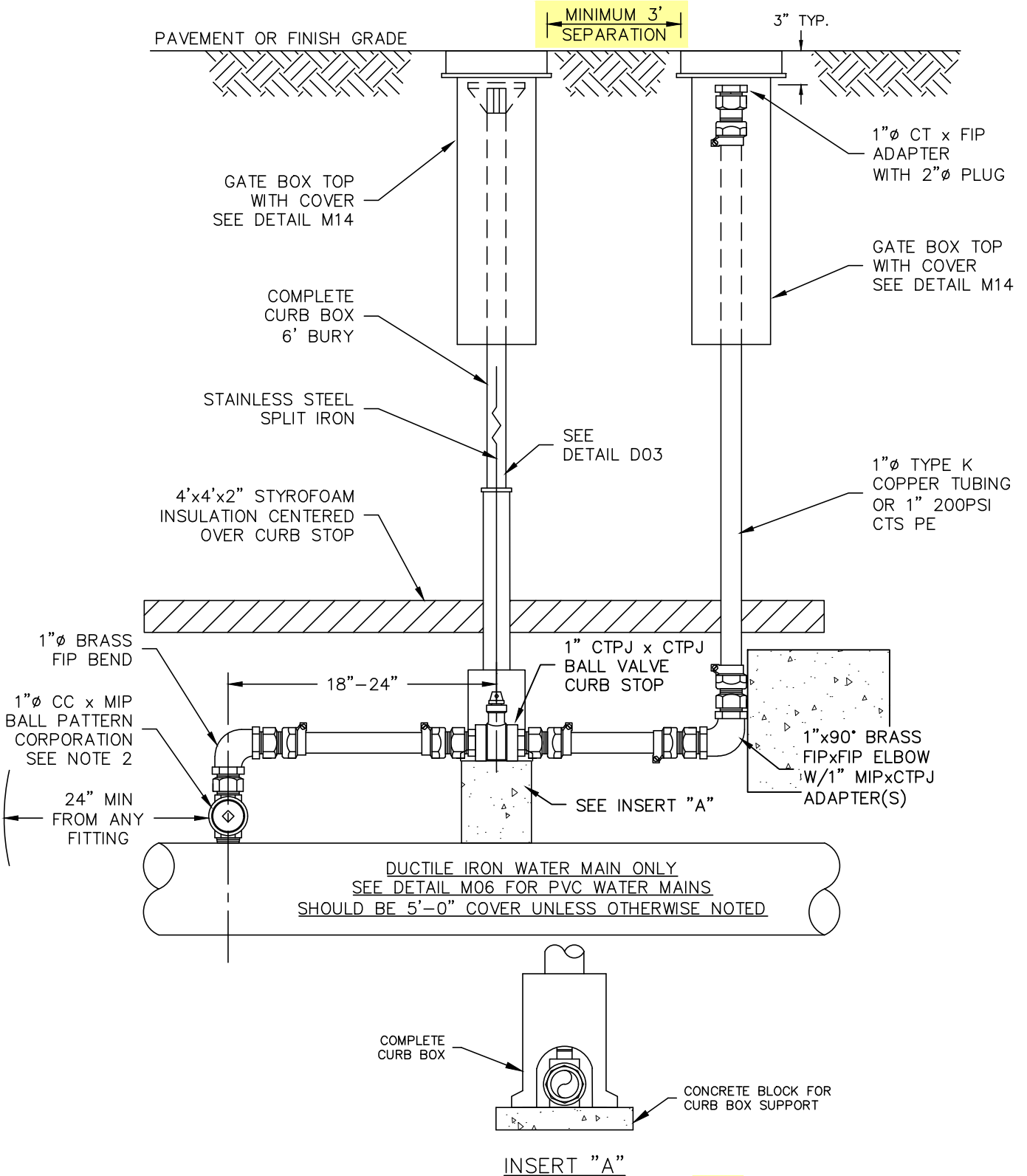
1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS. PENNICHUCK FIELD REPRESENTATIVE SHALL DETERMINE LIMITS OF UNSUITABLE SOILS AND MATERIAL TYPE FOR REPLACEMENT.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5'-0" FROM TOP OF PIPE TO FINISH GRADE.
3. REQUIREMENTS FOR SUBBASE AND BASE MATERIAL TYPE ARE TO BE IN ACCORDANCE WITH LOCAL AUTHORITY HAVING LOCAL JURISDICTION IN PAVED AREAS.
4. REQUIREMENTS FOR GRAVEL, LOAM AND/OR SEED ARE TO BE IN ACCORDANCE WITH LOCAL AUTHORITY HAVING LOCAL JURISDICTION IN NON-PAVED AREAS.
5. USE 10-GAUGE SOLID-CORE COATED TRACER WIRE PER P.W.W. TECHNICAL SPECIFICATIONS.
6. INSTALL 3" WIDE BLUE UNDERGROUND WARNING TAPE.
7. REPLACEMENT MATERIALS FOR UNSUITABLE SOILS ABOVE BEDDING SUBGRADE AND BELOW THE ROAD GRAVELS, SHALL BE EITHER THE BEDDING SAND OR CLEAN COMMON BORROW AS DETAILED.
8. REPLACEMENT MATERIALS FOR UNSUITABLE SOILS BELOW BEDDING SUBGRADE SHALL BE EITHER 1 1/2" CRUSHED STONE OR NHDOT 304.2 GRAVEL, AS DETERMINED BY PWW.

ITEM REVISED IN 2026



DETAIL M02  
 TYPICAL TRENCH DETAIL

PENNICHUCK WATER WORKS, INC.  
 REV: 02-20-2026 SCALE: NTS



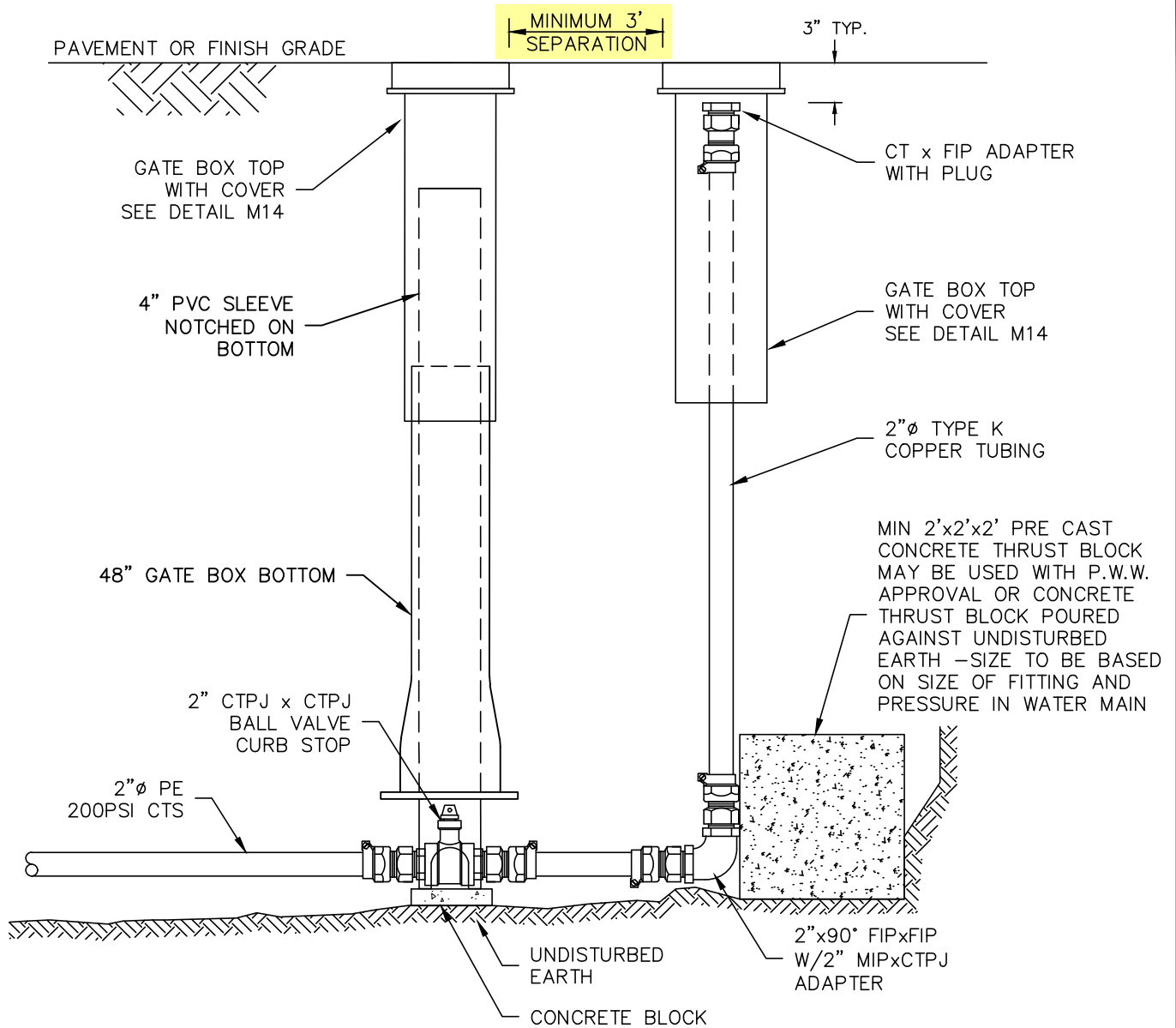
**NOTES:**

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. WATER MAIN MAY BE DIRECT TAPPED WHEN IT IS 6" OR LARGER DUCTILE IRON.
3. SEE DETAIL M06 FOR INSTALLATION ON PVC WATER MAINS.

ITEM REVISED IN 2026



DETAIL M03  
 TYPICAL 1" RELEASE VALVE  
 INSTALLATION ON DUCTILE IRON  
 PENNICHUCK WATER WORKS, INC.  
 REV: 02-20-2026 SCALE: NTS



ITEM REVISED IN 2026

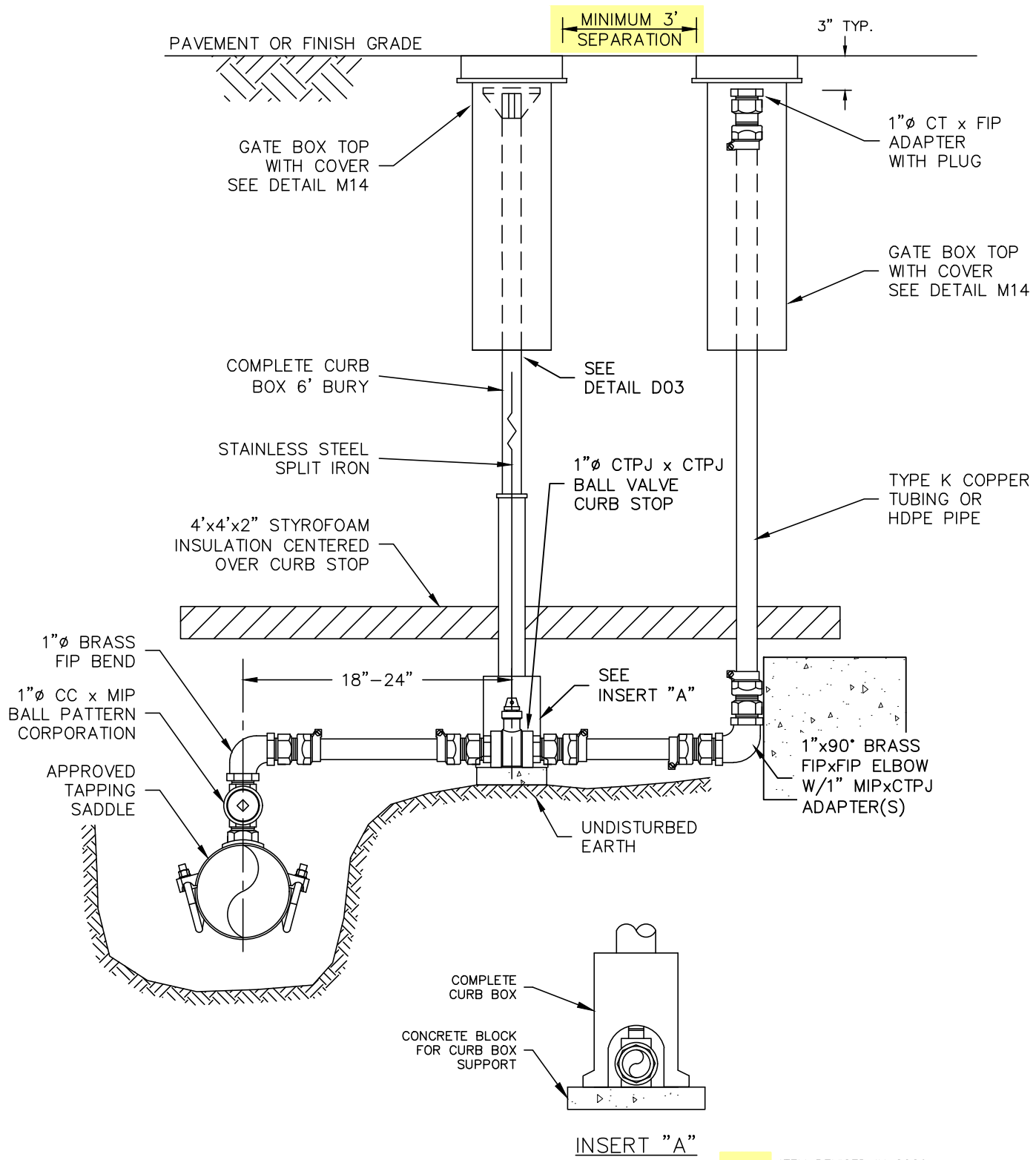


**NOTES:**

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.

DETAIL M04  
 TYPICAL 2" RELEASE VALVE  
 INSTALLATION ON END OF 2" MAIN  
 PENNICHUCK WATER WORKS, INC.  
 REV: 02-20-2026 SCALE: NTS





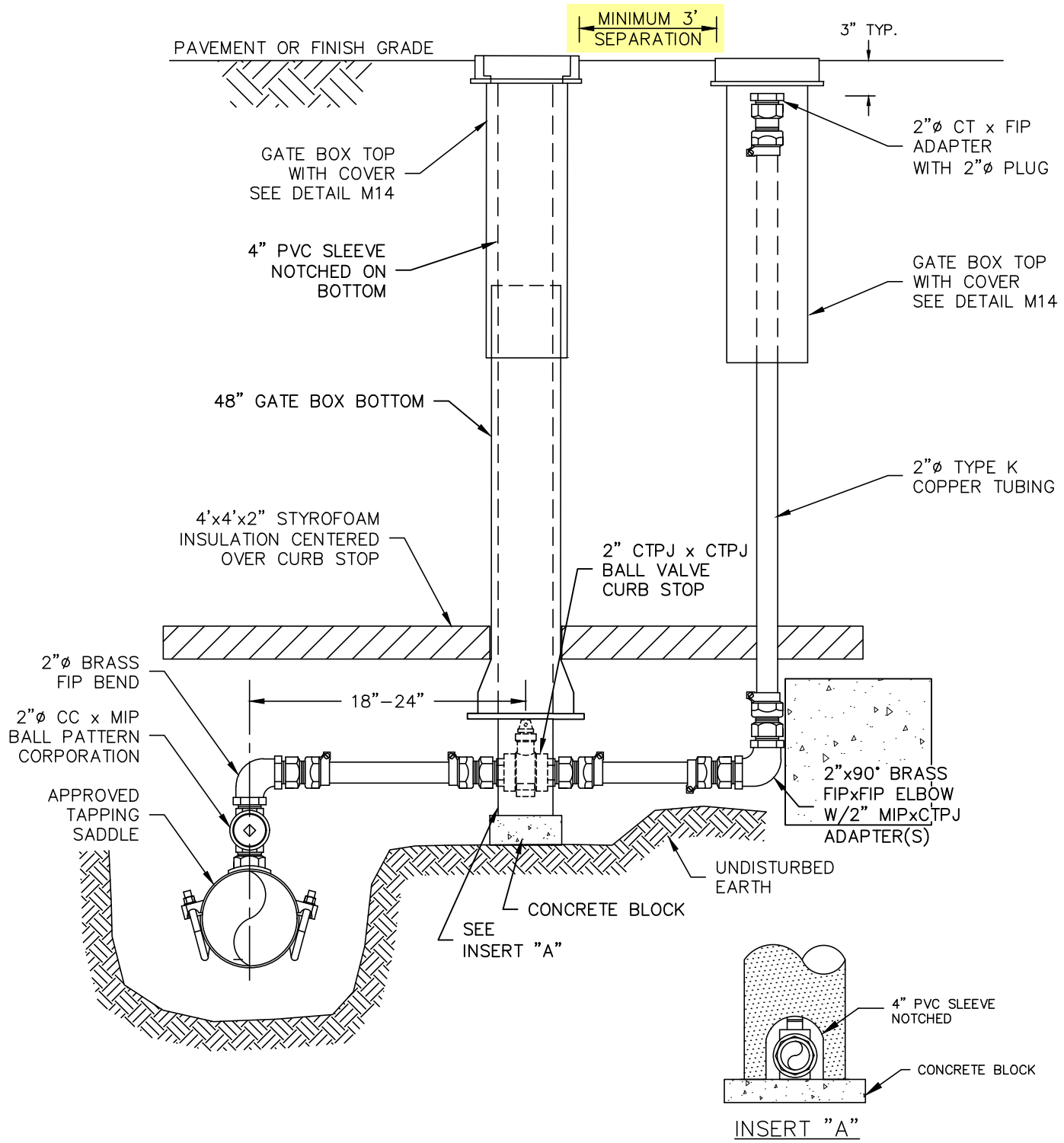
**NOTES:**

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.

ITEM REVISED IN 2026



DETAIL M06  
 TYPICAL 1" RELEASE VALVE  
 INSTALLATION ON PVC  
 PENNICHUCK WATER WORKS, INC.  
 REV: 02-20-2026 SCALE: NTS



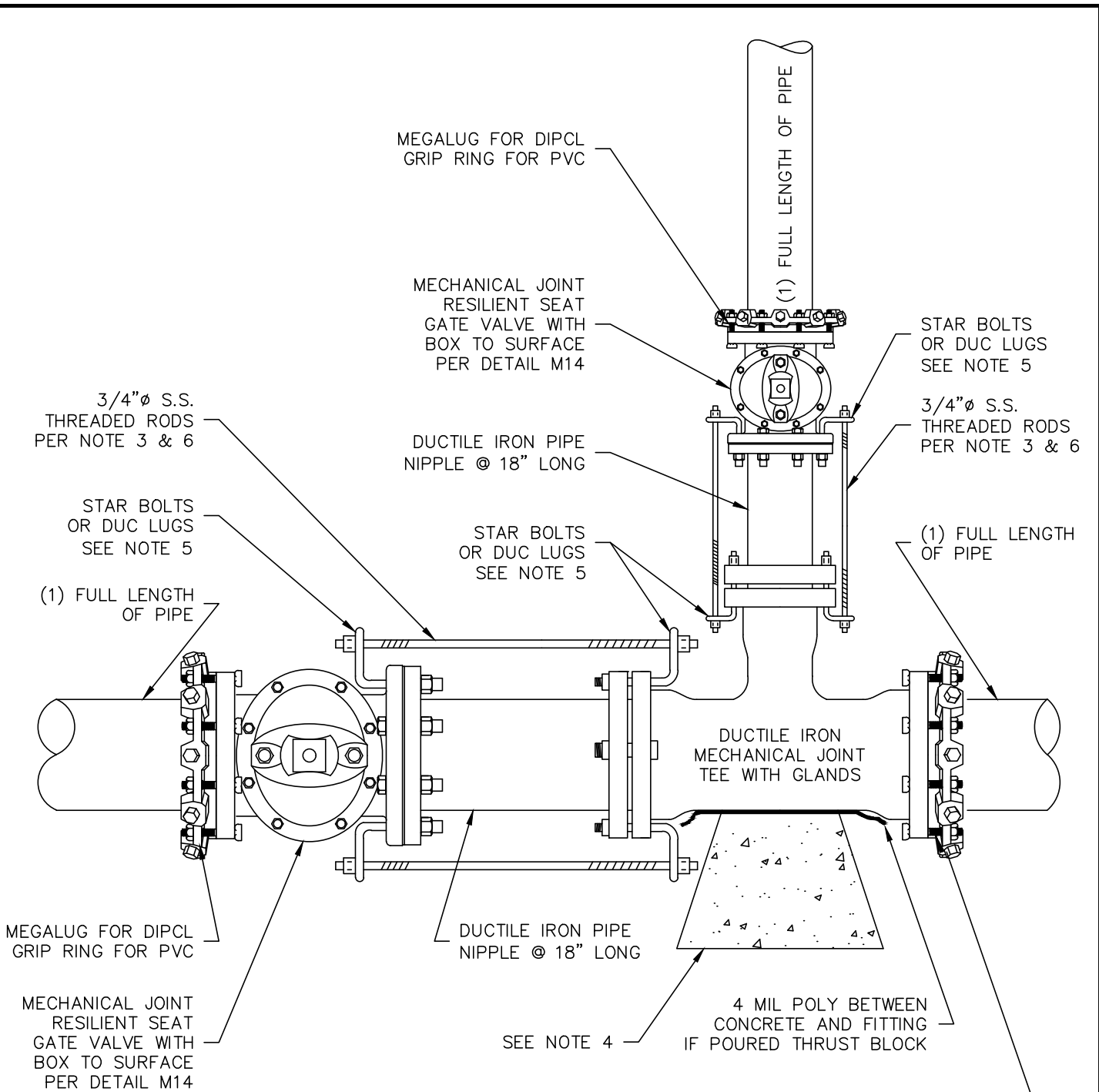
**NOTES:**

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.

ITEM REVISED IN 2026



DETAIL M07  
 TYPICAL 2" RELEASE VALVE  
 INSTALLATION ON PVC  
 PENNICHUCK WATER WORKS, INC.  
 REV: 02-20-2026 SCALE: NTS

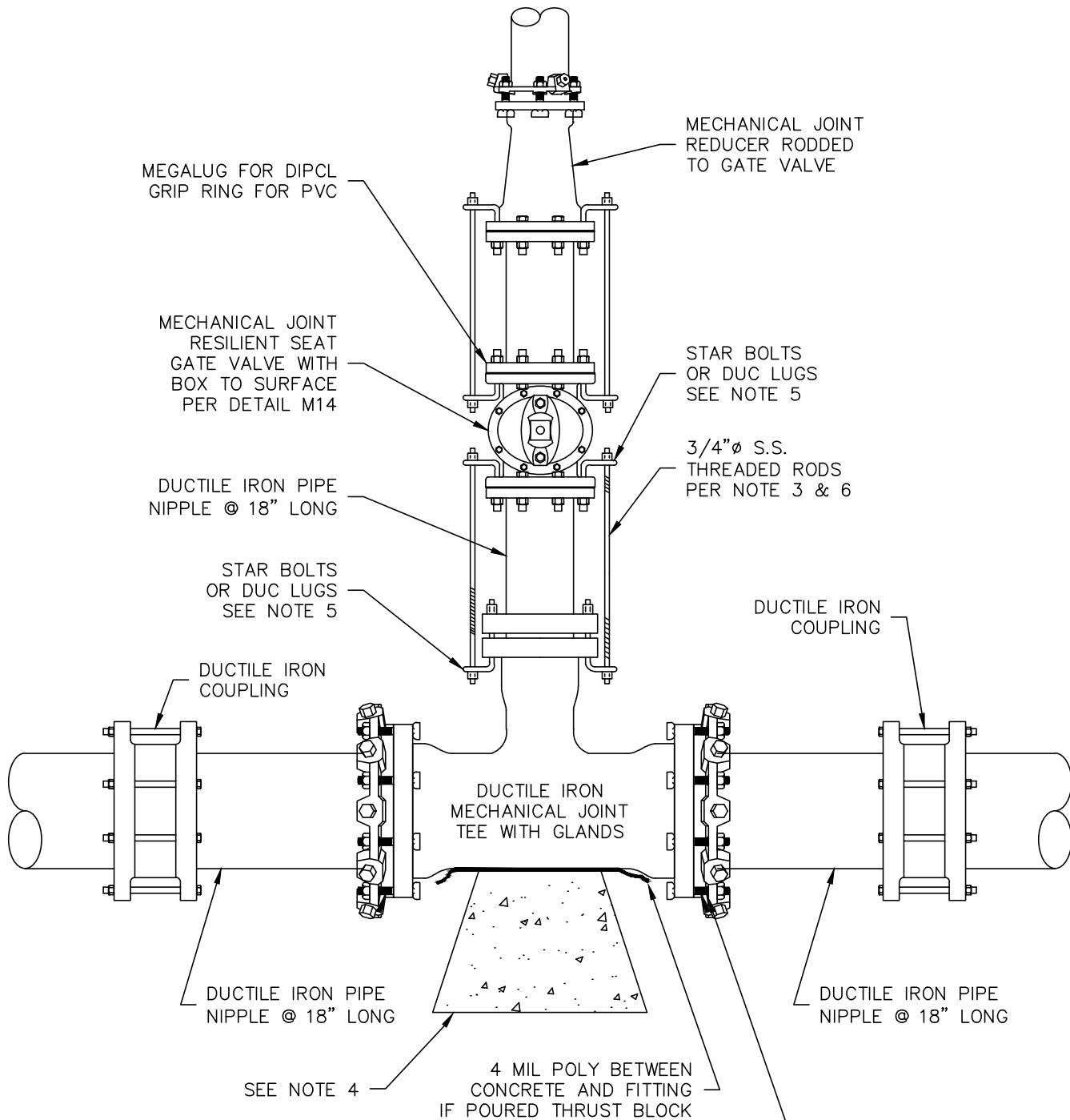


**NOTES:**

1. ALL MATERIAL AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH 5'-0" FROM TOP OF PIPE TO FINISH GRADE.
3. 3/4" S.S. RODS SHALL BE USED IN CONJUNCTION WITH REQUIRED S.S. NUTS. RODS ARE TO BE ATTACHED TO FITTINGS WITH EITHER STAR BOLTS OR DUC LUGS.  
10" FITTING OR SMALLER = (2) 3/4" S.S. RODS & ASSOC. HARDWARE.  
12" FITTING OR LARGER = (4) 3/4" S.S. RODS & ASSOC. HARDWARE.
4. MIN 2'x2'x3' PRE CAST CONCRETE THRUST BLOCK MAY BE USED WITH P.W.W. APPROVAL OR CONCRETE THRUST BLOCK POURED AGAINST UNDISTURBED EARTH - SIZE TO BE BASED ON SIZE OF FITTING AND PRESSURE IN WATER MAIN. SEE DETAIL M10.
5. SEE PWW TECHNICAL SPECIFICATION SECTION 01600.C.16.F
6. ALL MECHANICAL JOINT FITTINGS SEPARATED BY PIPE LENGTH OF 10 FEET OR LESS MUST BE RODDED PER PWW TECHNICAL SPECIFICATION SECTION 01600E.2.F IF SEPARATION IS MORE THAN 10 FEET SUBSTITUTE MEGALUGS (OR GRIP RINGS) IN LIEU OF THREADED RODS.



DETAIL M08  
 TYPICAL TEE INSTALLATION  
 PENNICHUCK WATER WORKS, INC.  
 REV: 11-1-2021 SCALE: NTS

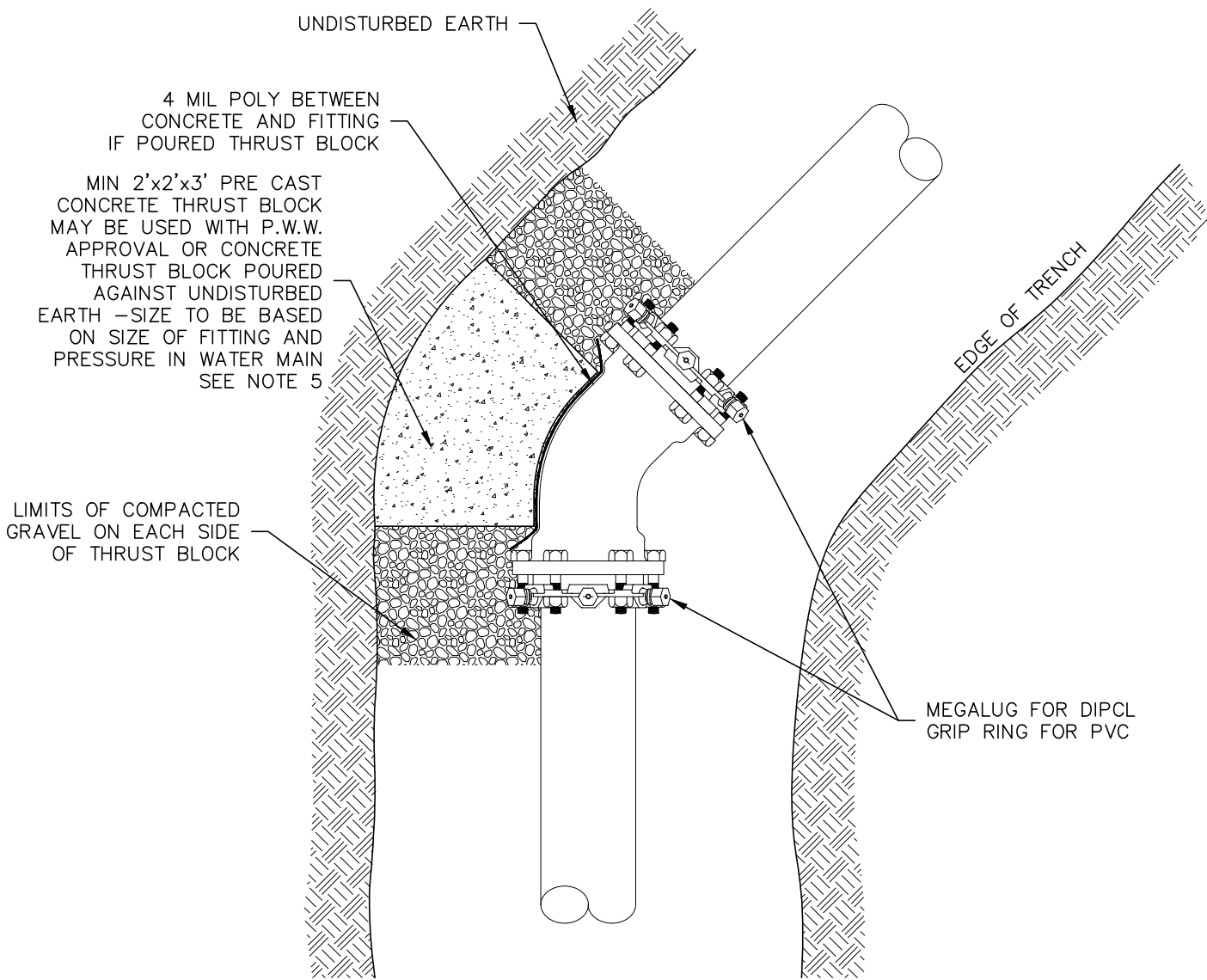


**NOTES:**

1. ALL MATERIAL AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
3. 3/4"  $\phi$  S.S. RODS SHALL BE USED IN CONJUNCTION WITH REQUIRED S.S. NUTS. RODS ARE TO BE ATTACHED TO FITTINGS WITH EITHER STAR BOLTS OR DUC LUGS.  
10" FITTING OR SMALLER = (2) 3/4"  $\phi$  S.S. RODS & ASSOC. HARDWARE.  
12" FITTING OR LARGER = (4) 3/4"  $\phi$  S.S. RODS & ASSOC. HARDWARE.
4. MIN 2'x2'x3' PRE CAST CONCRETE THRUST BLOCK MAY BE USED WITH P.W.W. APPROVAL OR CONCRETE THRUST BLOCK POURED AGAINST UNDISTURBED EARTH - SIZE TO BE BASED ON SIZE OF FITTING AND PRESSURE IN WATER MAIN. SEE DETAIL M10.
5. SEE PWW TECHNICAL SPECIFICATION SECTION 01600.C.16.F
6. ALL MECHANICAL JOINT FITTINGS SEPARATED BY PIPE LENGTH OF 10 FEET OR LESS MUST BE RODDED PER PWW TECHNICAL SPECIFICATION SECTION 01600E.2.F IF SEPARATION IS MORE THAN 10 FEET SUBSTITUTE MEGALUGS (OR GRIP RINGS) IN LIEU OF THREADED RODS.



DETAIL M09  
TYPICAL TEE INSTALLATION  
ON EXISTING MAIN  
 PENNICHUCK WATER WORKS, INC.  
 REV: 11-1-2021 SCALE: NTS

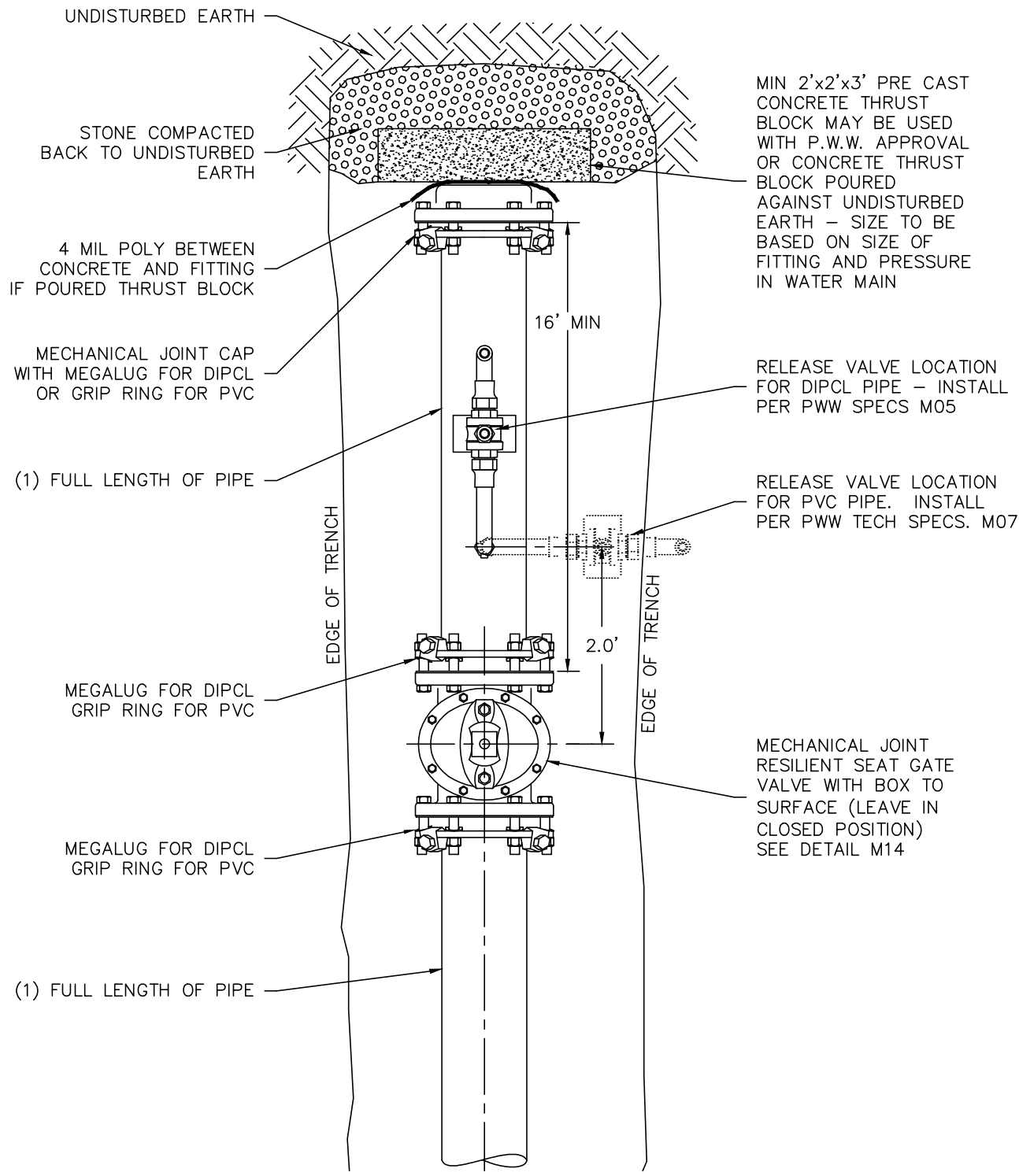


**NOTES:**

1. ALL MATERIAL AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH 5'-0" FROM TOP OF PIPE TO FINISH GRADE.
3. 3/4"  $\phi$  S.S. RODS SHALL BE USED IN CONJUNCTION WITH REQUIRED S.S. NUTS. RODS ARE TO BE ATTACHED TO FITTINGS WITH EITHER STAR BOLTS OR DUC LUGS PER SPECIFICATION SECTION 01600C.16.F 10" FITTING OR SMALLER = (2) 3/4"  $\phi$  S.S. RODS & ASSOC. HARDWARE. 12" FITTING OR LARGER = (4) 3/4"  $\phi$  S.S. RODS & ASSOC. HARDWARE.
4. MIN 2'x2'x3' PRE CAST CONCRETE THRUST BLOCK MAY BE USED WITH P.W.W. APPROVAL OR CONCRETE THRUST BLOCK Poured AGAINST UNDISTURBED EARTH - SIZE TO BE BASED ON SIZE OF FITTING AND PRESSURE IN WATER MAIN.
5. VOID BETWEEN PRECAST THRUST BLOCK AND VIRGIN SOIL TO BE FILLED AND CHINKED WITH STONE
6. ALL MECHANICAL JOINT FITTINGS SEPARATED BY PIPE LENGTH OF 10 FEET OR LESS MUST BE RODDED PER PW.W. TECHNICAL SPECIFICATION SECTION 01600E.2.F IF SEPARATION IS MORE THAN 10 FEET SUBSTITUTE MEGALUGS (OR GRIP RINGS) IN LIEU OF THREADED RODS.



DETAIL M10  
 TYPICAL THRUST BLOCK BEHIND  
 FITTINGS INSTALLATION  
 PENNICHUCK WATER WORKS, INC.  
 REV: 11-1-2021 SCALE: NTS

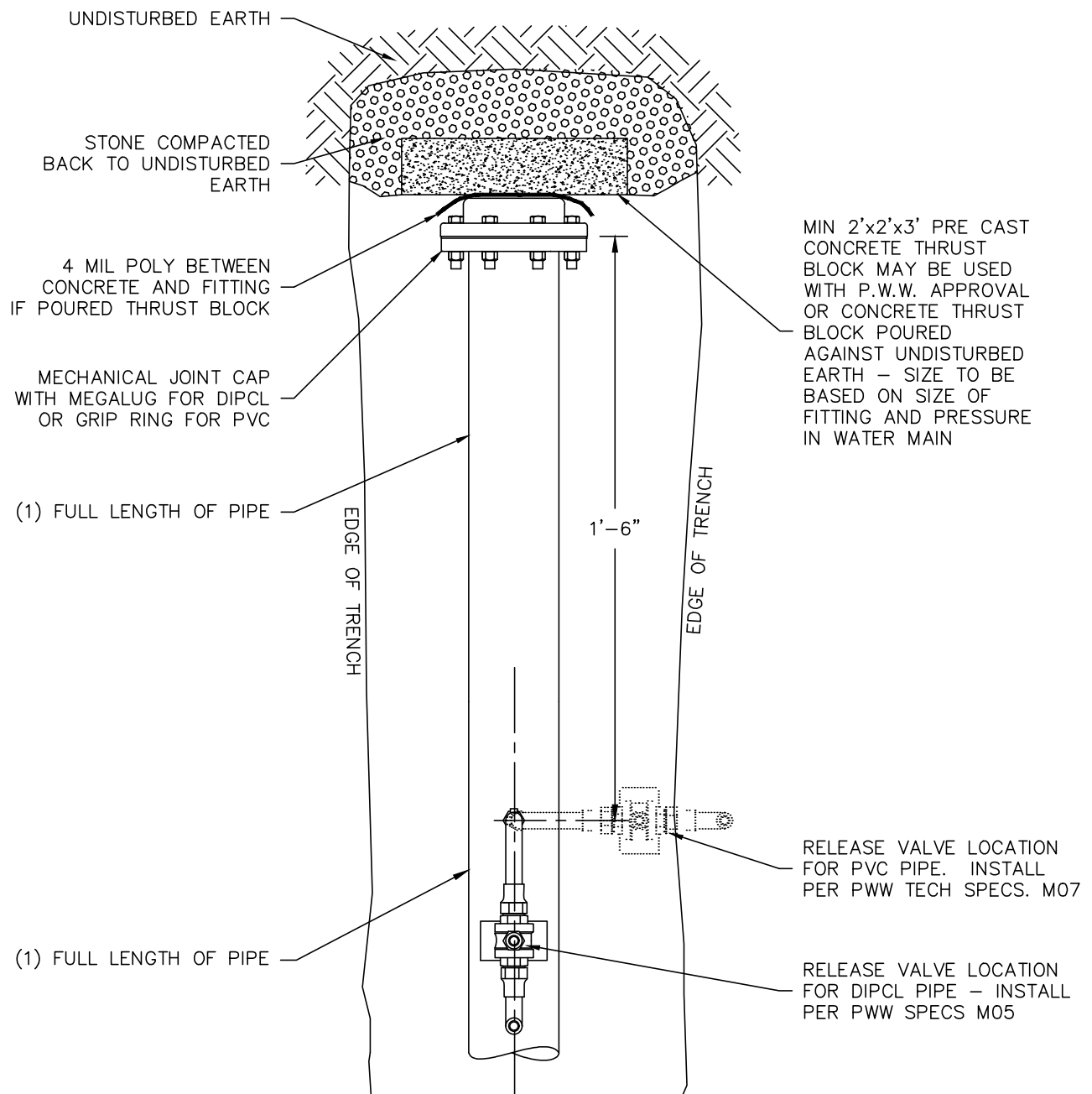


**NOTES:**

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.



DETAIL M11  
 TYPICAL END OF MAIN W/GATE  
 VALVE INSTALLATION  
 PENNICHUCK WATER WORKS, INC.  
 REV: 03-18 SCALE: NTS

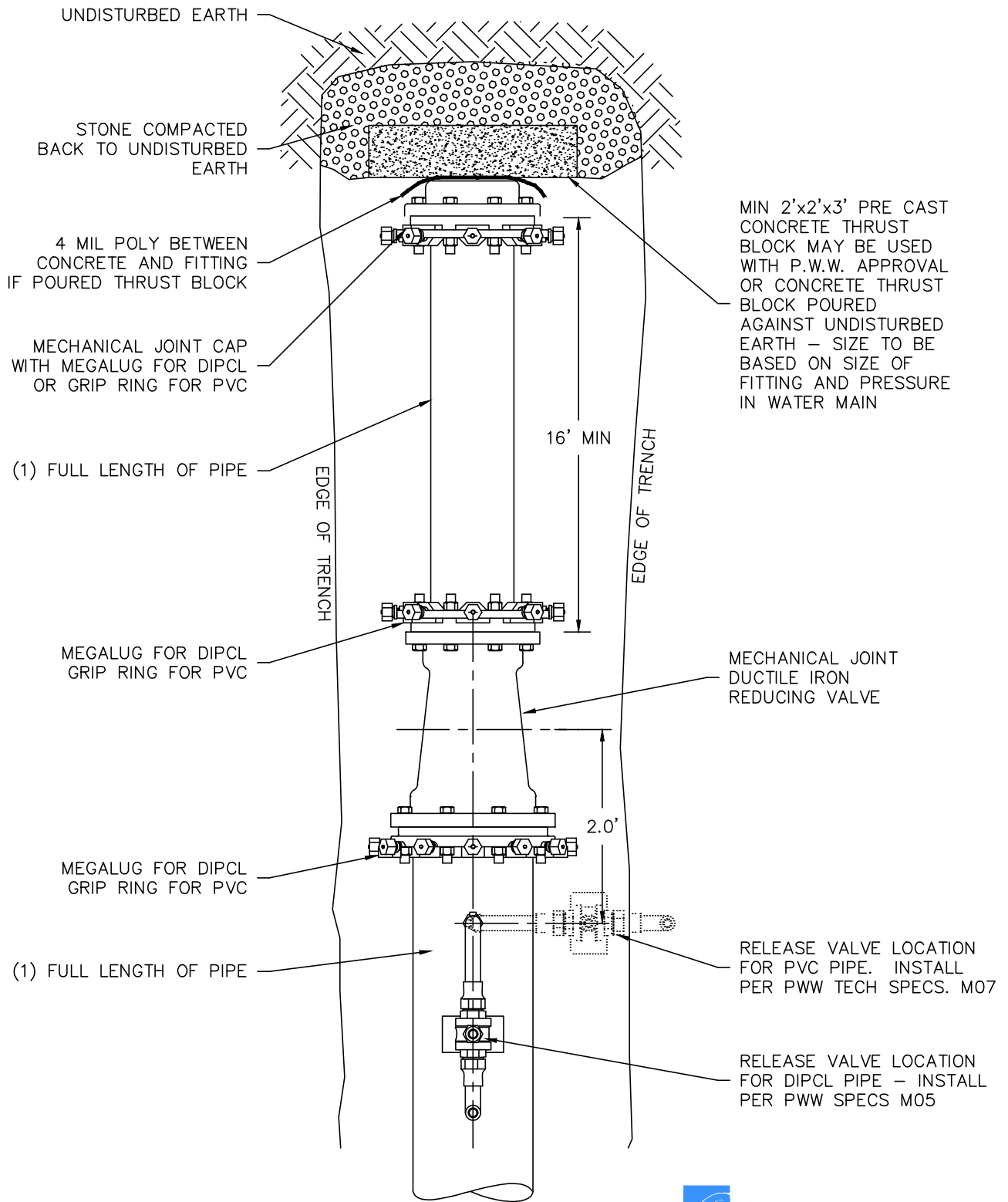


**NOTES:**

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.



DETAIL M12  
 TYPICAL END OF MAIN W/O  
 GATE VALVE INSTALLATION  
 PENNICHUCK WATER WORKS, INC.  
 REV: 03-18 SCALE: NTS

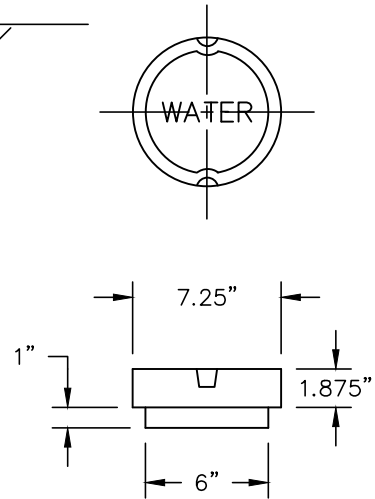
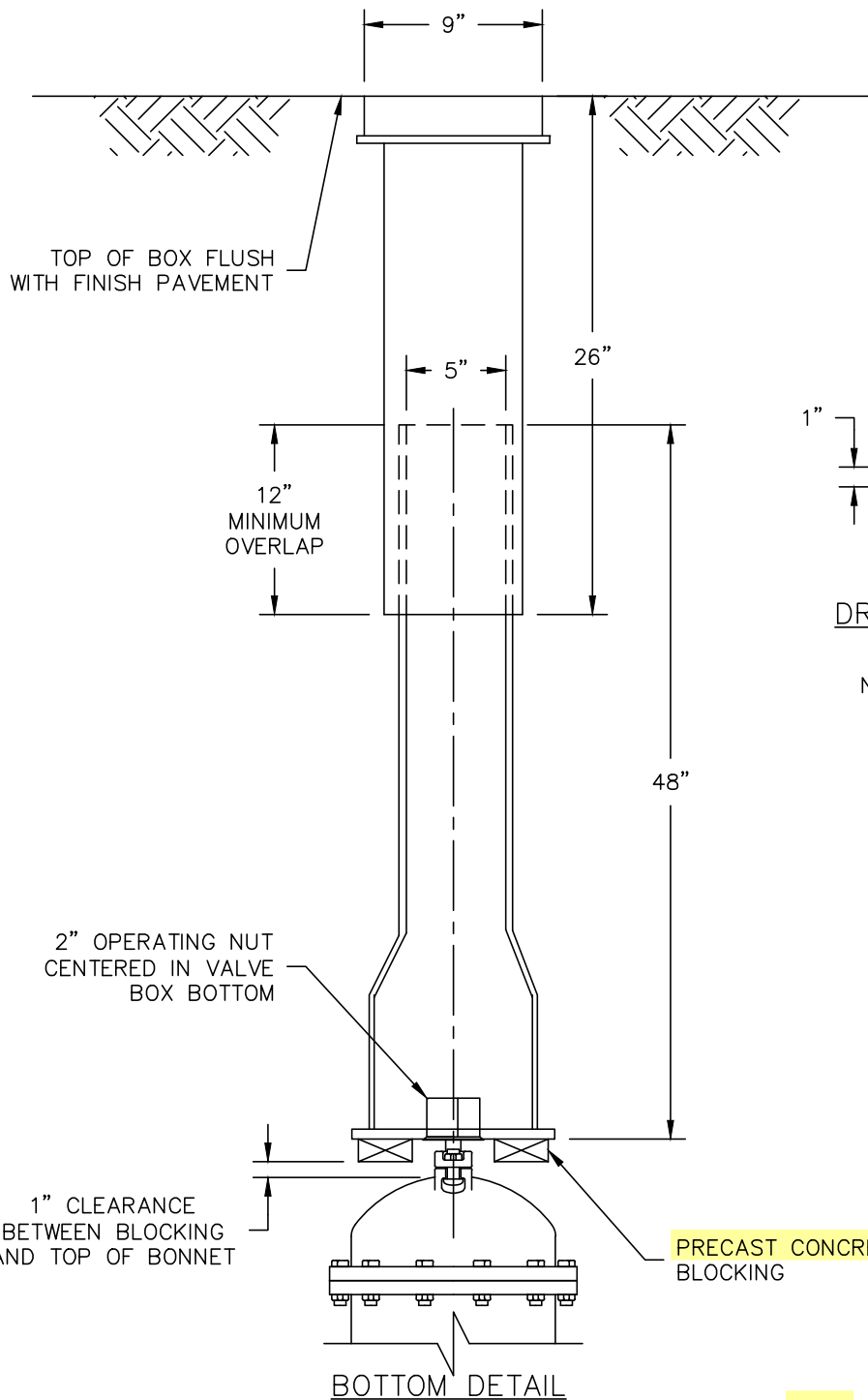


**NOTES:**

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.



DETAIL M13  
 TYPICAL END OF MAIN W/REDUCER  
 INSTALLATION  
 PENNICHUCK WATER WORKS, INC.  
 REV: 03-18 SCALE: NTS



DROP STYLE COVER

NOTE: COVER MUST BE MARKED "WATER"

**NOTES:**

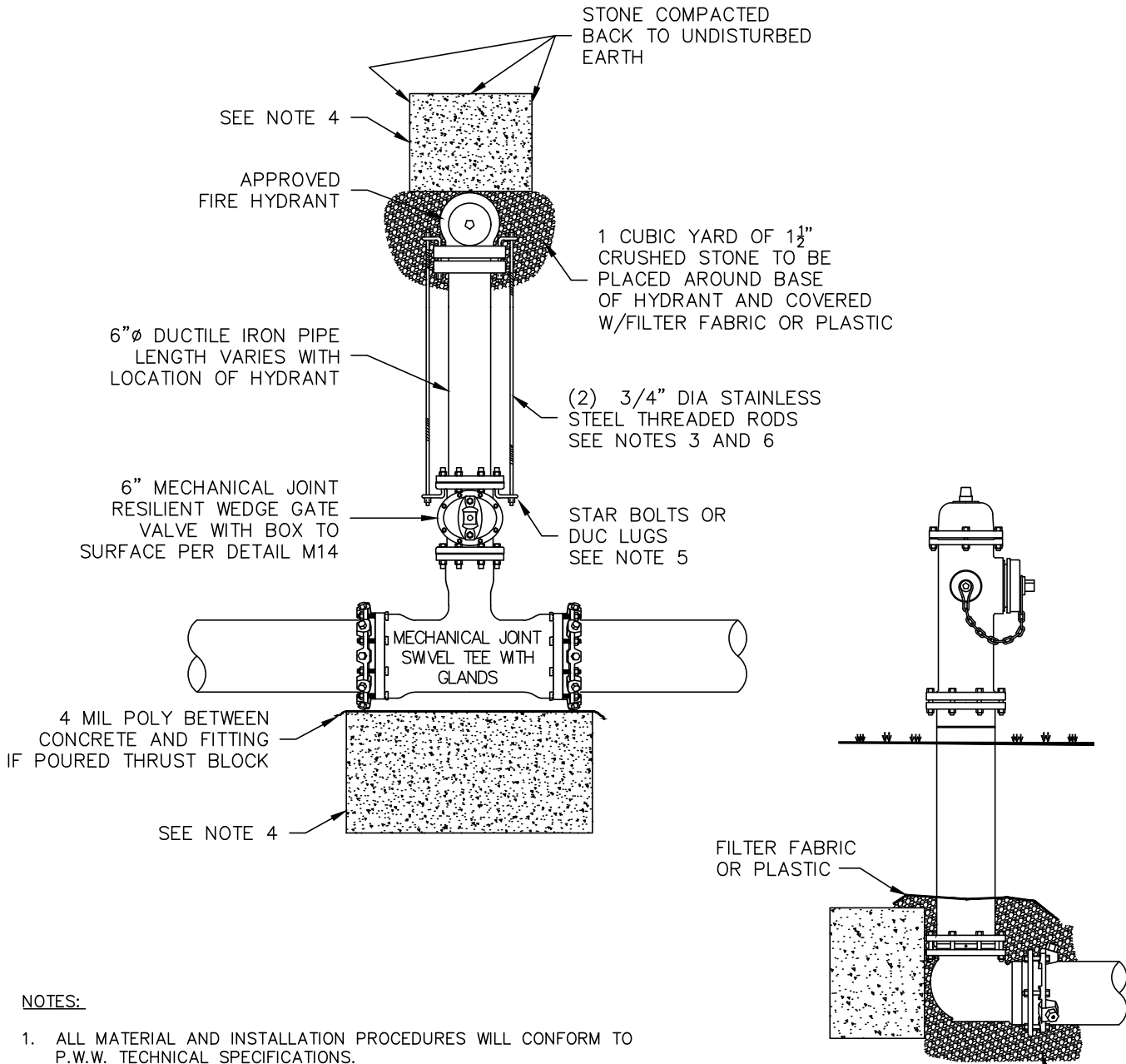
1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.

ITEM REVISED IN 2023



DETAIL M14  
TYPICAL VALVE BOX DETAIL  
 PENNICHUCK WATER WORKS, INC.

REV: 03-15-2023 SCALE: NTS



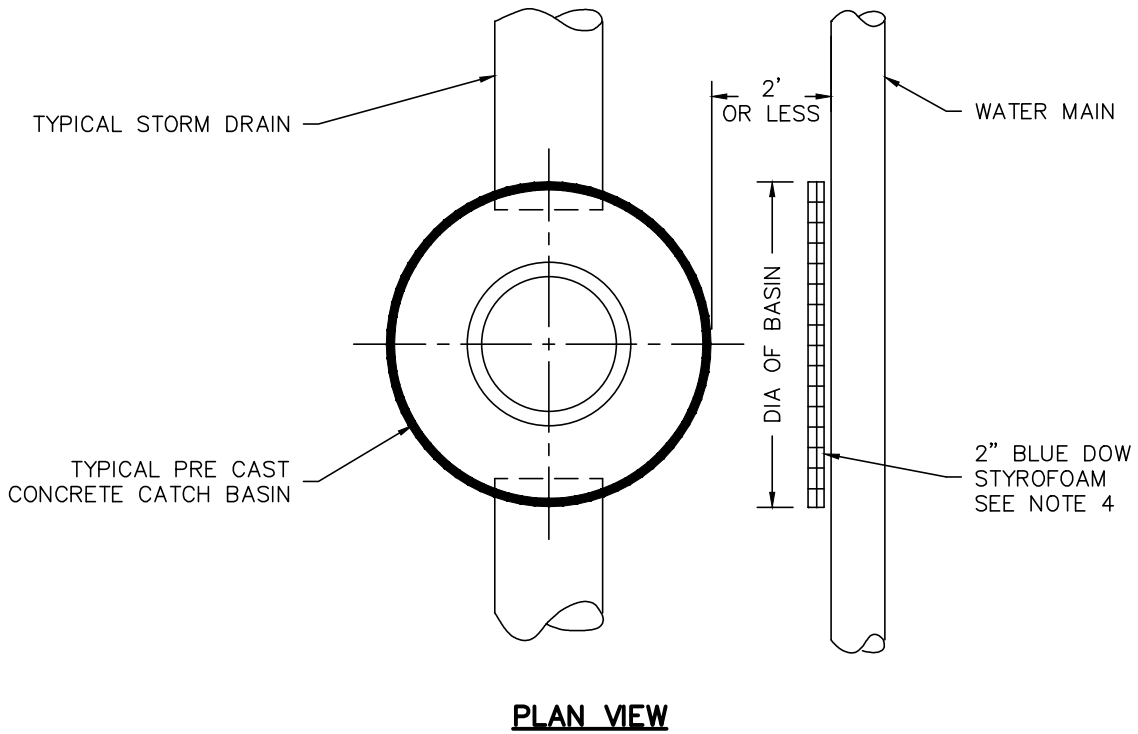
**NOTES:**

1. ALL MATERIAL AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTHS OF 5' FROM TOP OF PIPE TO FINISH GRADE.
3. 3/4"φ S.S. RODS SHALL BE USED IN CONJUNCTION WITH REQUIRED S.S. NUTS. RODS ARE TO BE ATTACHED TO FITTINGS WITH EITHER STAR BOLTS OR DUC LUGS. 10" FITTING OR SMALLER = (2) 3/4"φ S.S. RODS & ASSOC. HARDWARE. 12" FITTING OR LARGER = (4) 3/4"φ S.S. RODS & ASSOC. HARDWARE.
4. MIN 2'x2'x3' PRE CAST CONCRETE THRUST BLOCK MAY BE USED WITH P.W.W. APPROVAL OR CONCRETE THRUST BLOCK POURED AGAINST UNDISTURBED EARTH – SIZE TO BE BASED ON SIZE OF FITTING AND PRESSURE IN WATER MAIN. SEE DETAIL M10.
5. SEE PWW TECHNICAL SPECIFICATION SECTION 01600.C.16.F
6. ALL MECHANICAL JOINT FITTINGS SEPARATED BY PIPE LENGTH OF 10 FEET OR LESS MUST BE RODDED PER PWW TECHNICAL SPECIFICATION SECTION 01600E.2.F IF SEPARATION IS MORE THAN 10 FEET SUBSTITUTE MEGALUGS (OR GRIP RINGS) IN LIEU OF THREADED RODS.

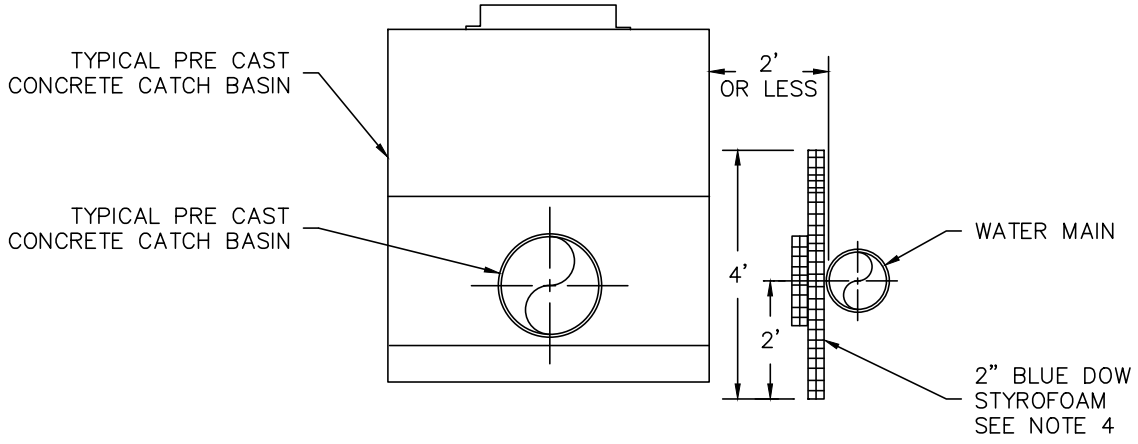
1 CUBIC YARD OF 1 1/2" CRUSHED STONE TO BE PLACED AROUND BASE OF HYDRANT AND COVERED W/FILTER FABRIC OR PLASTIC



DETAIL M15  
 TYPICAL HYDRANT INSTALLATION  
 PENNICHUCK WATER WORKS, INC.  
 REV: 11-1-2021 SCALE: NTS



**PLAN VIEW**



**ELEVATION VIEW**

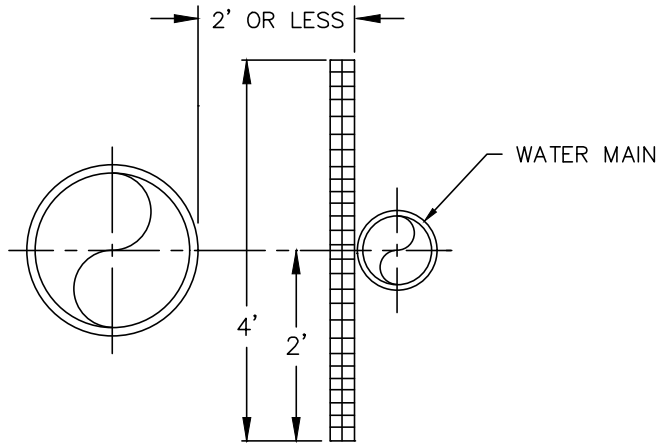
**NOTES:**

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
3. P.W.W., INC. RESERVES THE RIGHT TO MODIFY INSULATION REQUIREMENTS AS NECESSARY BASED ON FIELD CONDITIONS, ETC.
4. ALL BUTT JOINT SEAMS TO BE OVERLAPPED WITH 1' PIECE OF INSULATION CENTERED OVER SEAM.

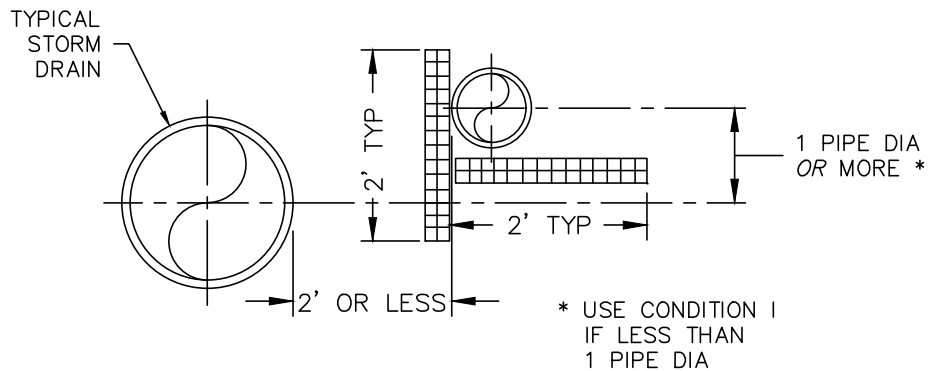


DETAIL M16  
TYPICAL CATCH BASIN  
INSULATION DETAIL  
 PENNICHUCK WATER WORKS, INC.  
 REV: 03-18 SCALE: NTS

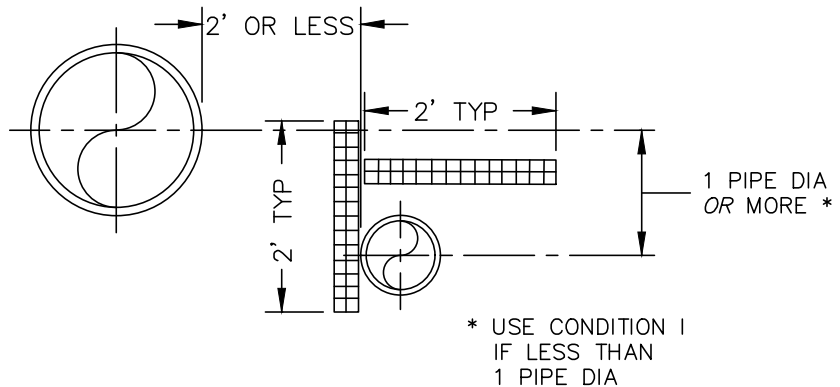
**CONDITION I**



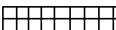
**CONDITION II**



**CONDITION III**

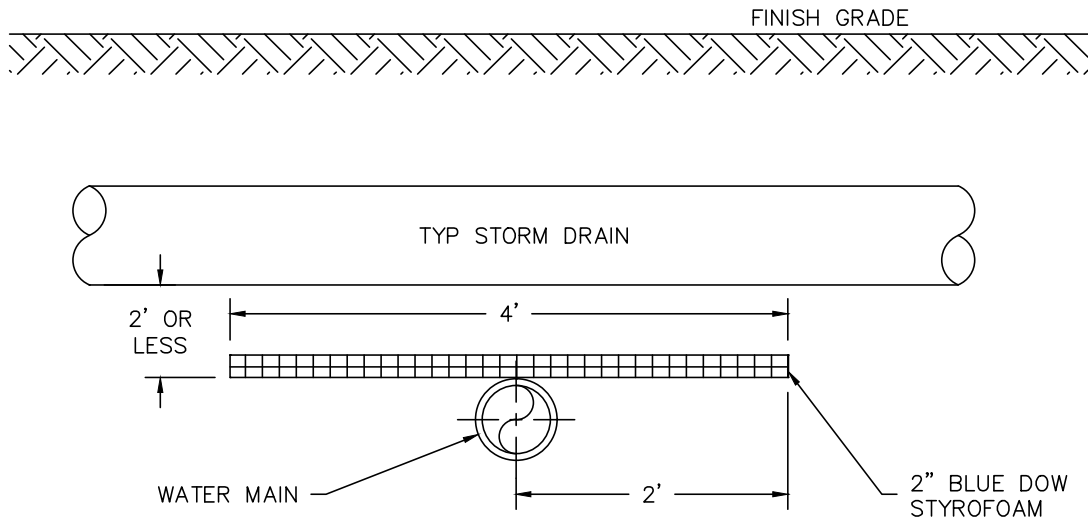


**NOTES:**

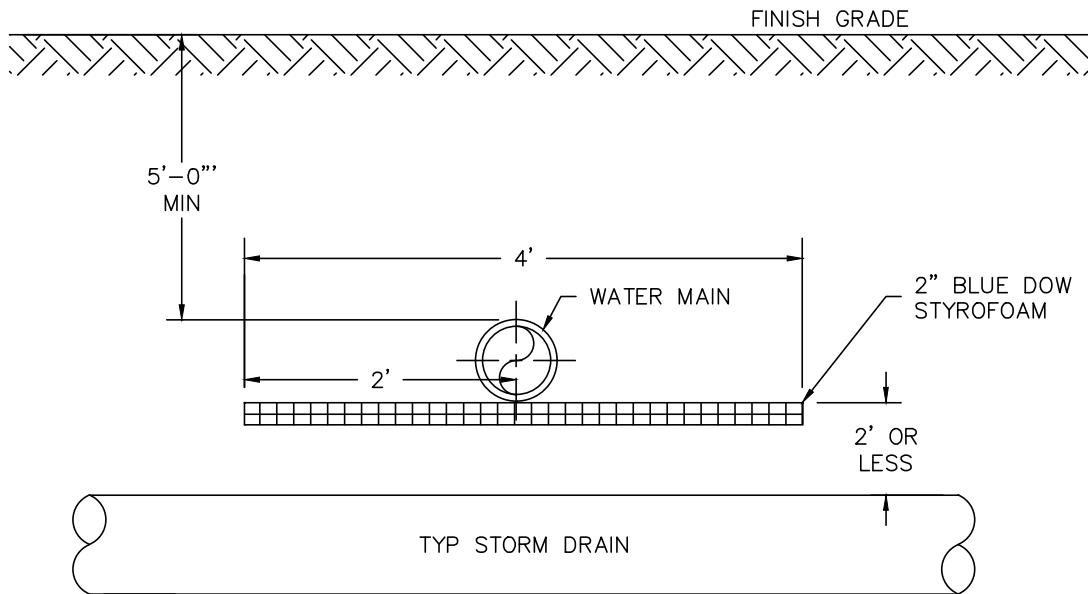
1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. P.W.W., INC. RESERVES THE RIGHT TO MODIFY INSULATION REQUIREMENTS AS NECESSARY BASED ON FIELD CONDITIONS, ETC.
3. INSULATION TO BE RUN HORIZONTALLY AS LONG AS CONDITIONS I, II, OR III ABOVE EXIST. ALL BUTT JOINT SEAMS TO BE OVERLAPPED WITH 1' PIECE OF INSULATION CENTERED OVER SEAM.
4.  - 2" (MIN) BLUE DOW STYROFOAM



DETAIL M17  
 STORM DRAIN / WATER MAIN  
 PARALLEL RUNS - ELEVATION VIEW  
 PENNICHUCK WATER WORKS, INC.  
 REV: 03-18 SCALE: NTS



### CONDITION I



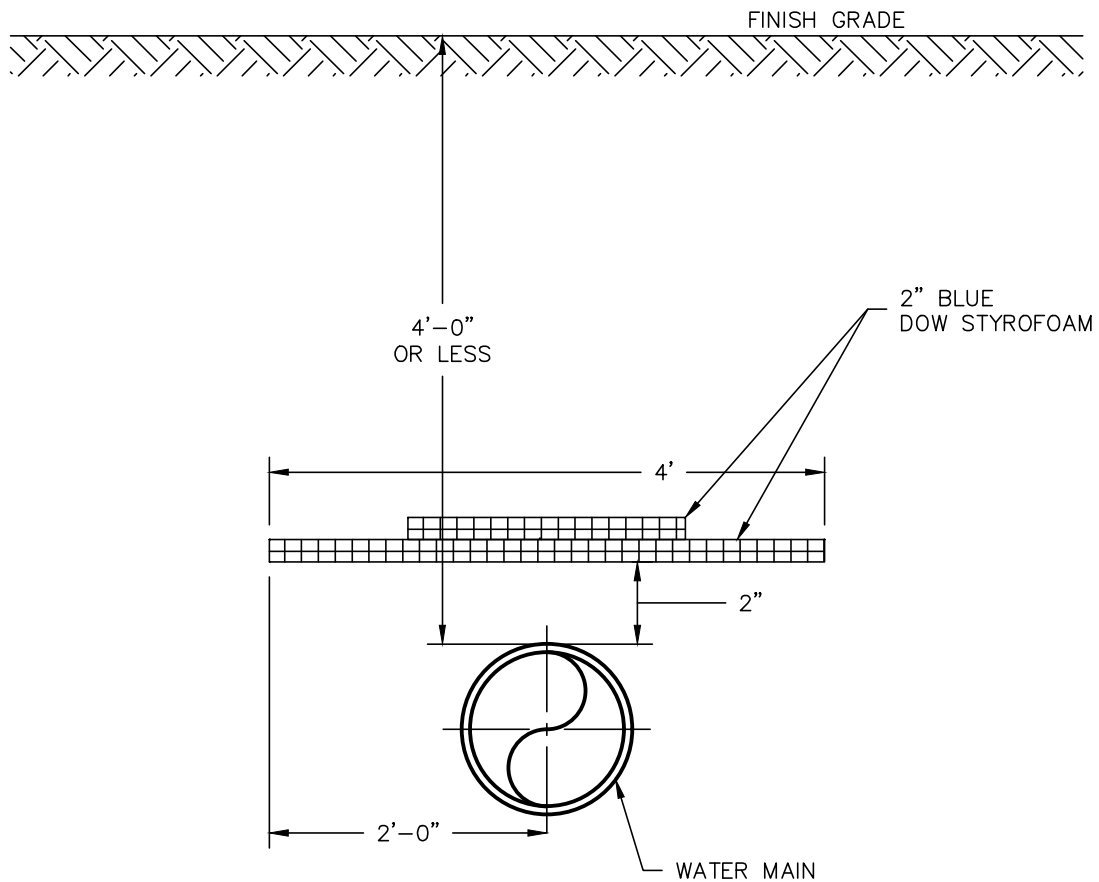
### CONDITION II

**NOTES:**

1. PENNICHUCK WATER WORKS, INC. RESERVES THE RIGHT TO MODIFY INSULATION REQUIREMENTS AS NECESSARY BASED ON FIELD CONDITIONS, ETC.
2. THE LENGTH OR WIDTH OF INSULATION SHALL EXTEND 1 STORM DRAIN PIPE DIAMETER BEYOND THE EDGE OF STORM DRAIN PIPE IN EACH DIRECTION OR A MINIMUM OF 2' BEYOND THE CENTERLINE OF THE STORM DRAIN PIPE, WHICHEVER IS GREATER.
3. ALL BUTT JOINT SEAMS TO BE OVERLAPPED WITH A 1'-0" PIECE OF INSULATION CENTERED OVER SEAM.



DETAIL M18  
 STORM DRAIN / WATER MAIN  
 INTERSECTING RUNS - ELEV. VIEW  
 PENNICHUCK WATER WORKS, INC.  
 REV: 03-18 SCALE: NTS

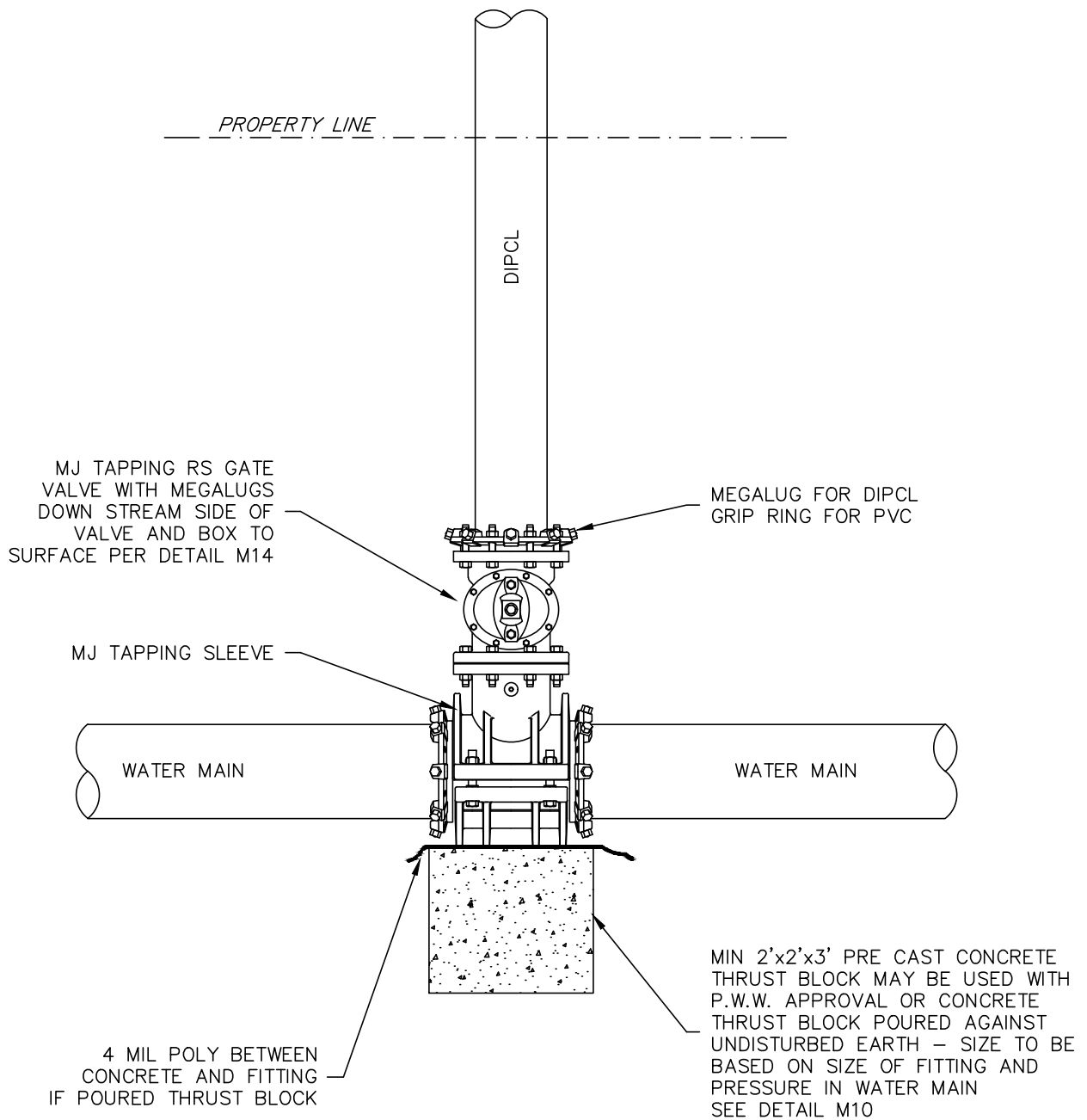


**NOTES:**

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. P.W.W., INC. RESERVES THE RIGHT TO MODIFY INSULATION REQUIREMENTS AS NECESSARY BASED ON FIELD CONDITIONS, ETC.
3. ALL BUTT JOINT SEAMS TO BE OVERLAPPED WITH 2" PIECE OF INSULATION CENTERED OVER SEAM.



DETAIL M19  
 TYPICAL INSULATION DETAIL FOR  
 LESS THAN 4'-0" OF COVER  
 PENNICHUCK WATER WORKS, INC.  
 REV: 03-18 SCALE: NTS



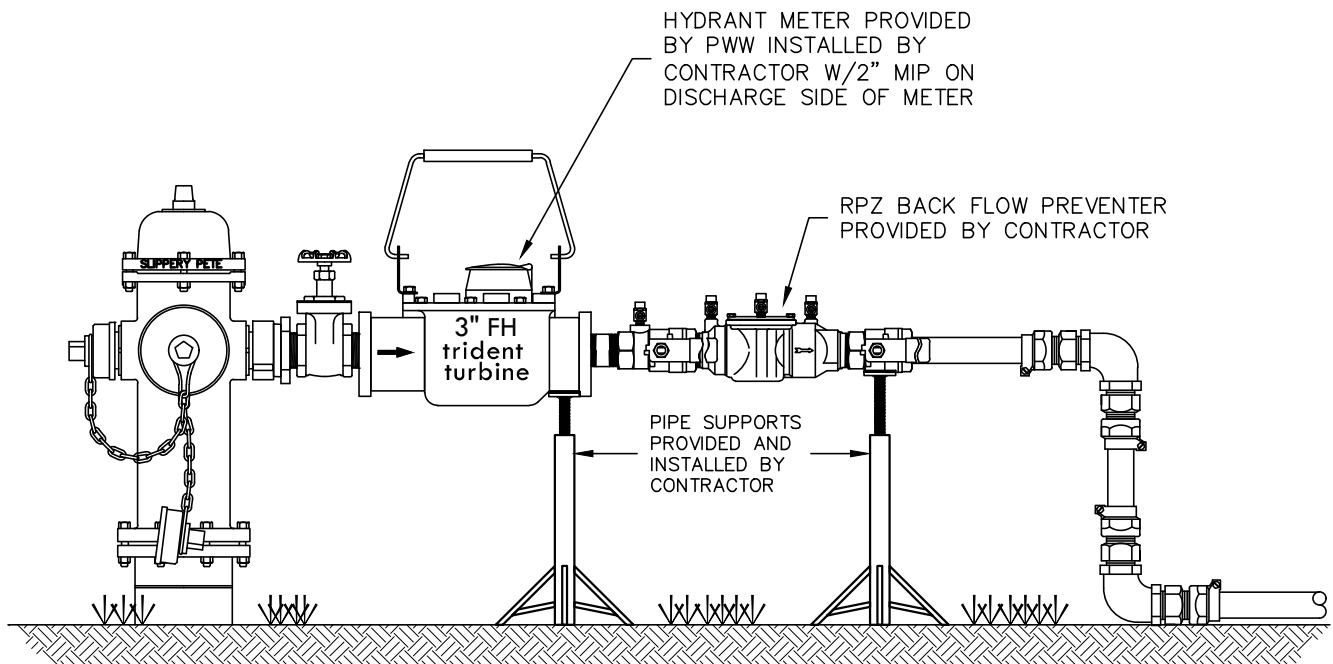
**NOTES:**

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO P.W.W. TECHNICAL SPECIFICATIONS.
2. SEE DETAIL F01 FOR CROSS-SECTIONAL VIEW.



DETAIL M20  
TYPICAL LARGE SERVICE AND/OR  
TAPPING SLEEVE DETAIL  
 PENNICHUCK WATER WORKS, INC.  
 REV: 11-1-2021 SCALE: NTS

NOTE:  
INITIAL INSTALLATION OF  
CONSTRUCTION METER BY  
PWW METER DEPT.

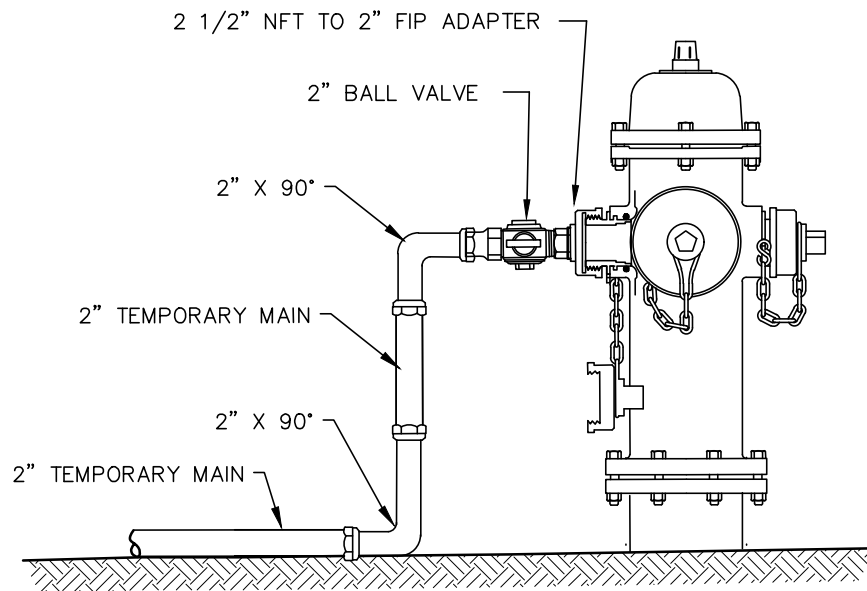


APPLICATION NOTES:

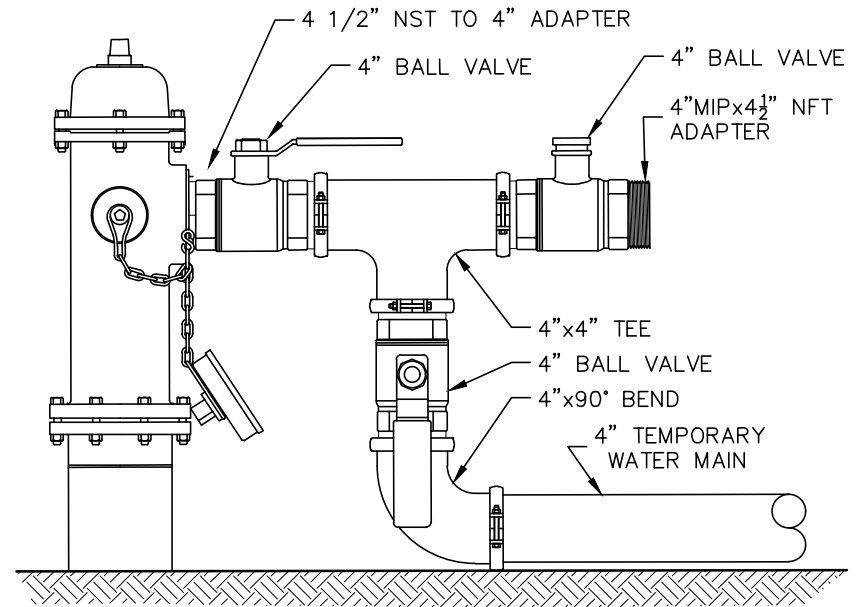
1. USE DESIGNATED HYDRANT ONLY
2. CONTRACTOR IS RESPONSIBLE TO PROTECT THE METER FROM THEFT, DAMAGE AND FREEZING
3. INITIATE AND TERMINATE WATER FLOW SLOWLY.
4. CONTACT PENNICHUCK WATER METER DEPARTMENT TO RELOCATE METER ASSEMBLY TO A DIFFERENT FIRE HYDRANT (603-913-2391)
5. HYDRANT METERS ARE AVAILABLE FROM APRIL 15TH TO NOVEMBER 15TH.



DETAIL T01  
TYPICAL CONSTRUCTION METER  
INSTALLATION DETAIL  
PENNICHUCK WATER WORKS, INC.  
REV: 03-18 SCALE: NTS



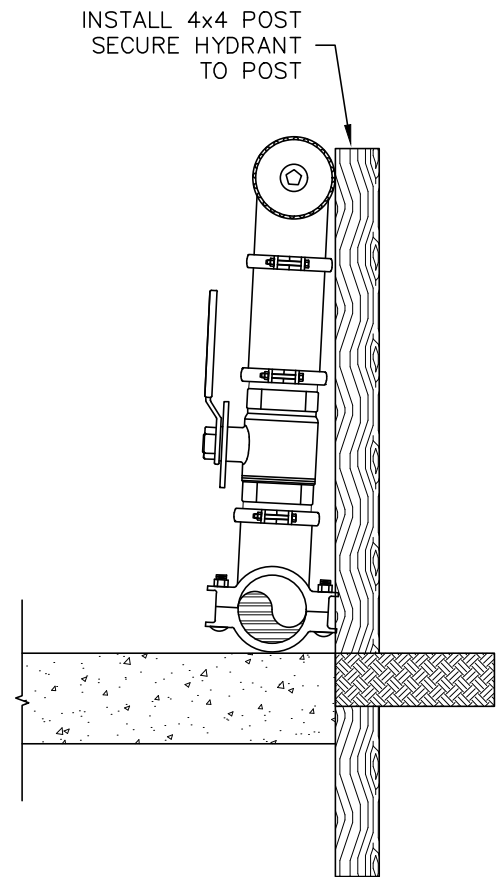
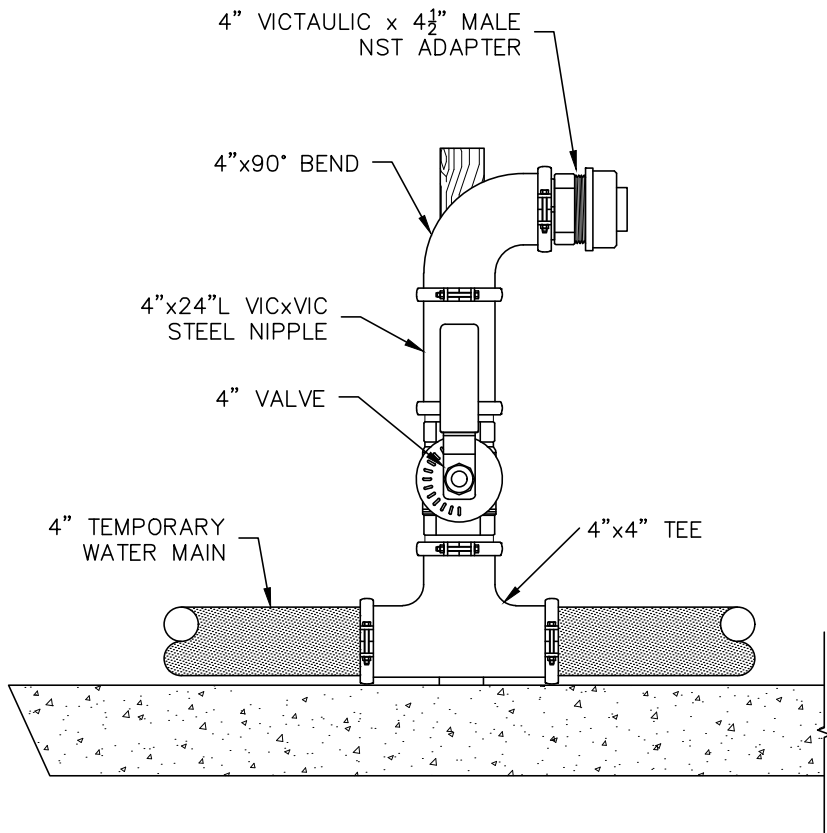
DETAIL "AA"



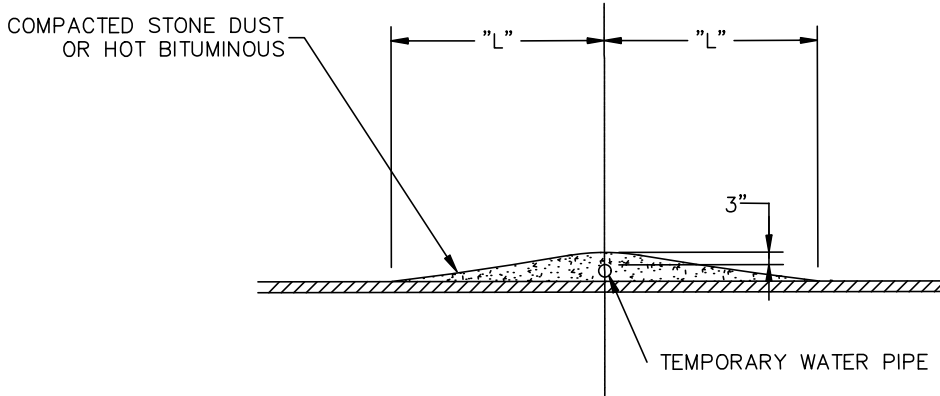
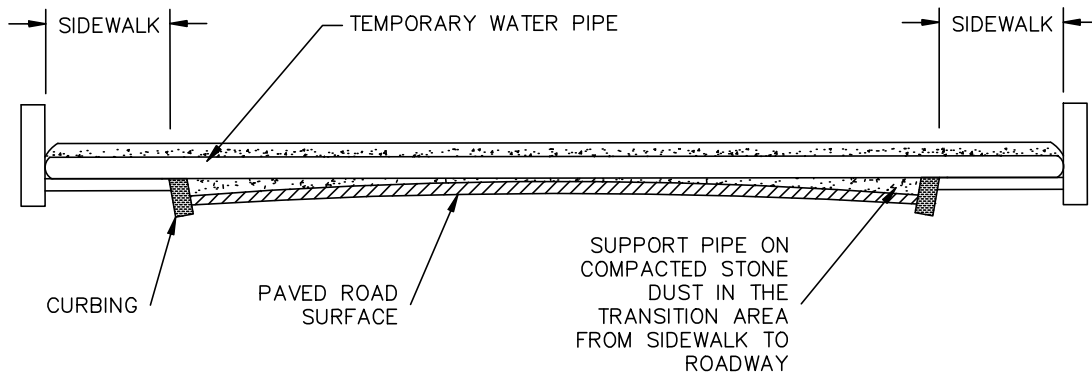
DETAIL "BB"



DETAIL T02  
TEMPORARY MAIN FED  
FROM A HYDRANT  
 PENNICHUCK WATER WORKS, INC.  
 REV: 03-18 SCALE: NTS



DETAIL T03  
 TYPICAL FIRE DEPARTMENT  
 CONNECTION ON TEMP. MAIN  
 PENNICHUCK WATER WORKS, INC.  
 REV: 03-18 SCALE: NTS



TEMPORARY WATER PIPE SIZE	"L" DIMENSION
1"	3 FT
2"	4 FT
4"	6 FT

NOTE:  
FOR LOW TRAFFIC ROADS ONLY



DETAIL T04  
TEMPORARY PEDESTRIAN/ROADWAY  
CROSSING DETAIL  
 PENNICHUCK WATER WORKS, INC.  
 REV: 03-18 SCALE: NTS