

CURB BOX CAN ONLY BE INSTALLED UNDER EXISTING OR ANTICIPATED FUTURE SIDEWALKS OR DRIVEWAY IF APPROVED BY CITY UTILITY ENGINEER. IF APPROVED, THE CURB BOX MUST BE COVERED WITH A ROAD BOX FLUSH WITH THE CONCRETE SURFACE.

#14 BLUE SOLID COATED TRACER WIRE ALONG OUTSIDE OF CURB BOX, LEAVE 12" OF SLACK AND WRAP AROUND TOP OF BOX. CURB BOX TO BE INSTALLED PLUMB AND CENTERED OVER CURB VALVE. CURB BOX SHALL BE MUELLER, FORD, OR AY MCDONALD, CAST IRON EXTENSION TYPE CURB BOX WITH MINNEAPOLIS PATTERN BASE AND 1 1/2" MINIMUM INSIDE DIA AND PENTAGON PLUG.

MUELLER 300 SERIES BALL VALVE OR FORD FB-400 SERIES CORPORATION VALVE WITH 1" CC THREAD INLET AND I.P. THREAD OUTLET

TAPPING SADDLE ON WATER MAIN

TRACE WIRE SHALL BE SPLICED TO MAINLINE TRACER WIRE OR ATTACHED TO CORPORATION STOP WHERE NO MAINLINE TRACER WIRE EXISTS. WHERE ATTACHED TO CORP, WRAP TRACER WIRE AROUND CORP SEVERAL TIMES AND SECURE WITH ELECTRICAL TAPE.

1" MINIMUM CLASS 250 DR 7 PE SERVICE LINE

NOTE:

- A. INSTALL CURB BOX IN MIDDLE OF BOULEVARD WHERE APPLICABLE OR 2' FROM EDGE OF RIGHT-OF-WAY
- B. WHERE THERE IS A UTILITY EASEMENT ADJACENT TO THE RIGHT-OF-WAY, METER PIT CAN BE LOCATED 2' ON THE HOUSE SIDE OF THE EASEMENT.

INSTALL METER PIT AND CURB BOX FLUSH WITH FINISH GRADE

STREET
RIGHT-OF-WAY
LINE

SEE NOTE A

2'
SEE NOTE B

6" REBAR

LEAVE SLACK TRACE WIRE INSIDE TOP OF PIT

METER PIT SHALL BE MUELLER THERMA COIL, FORD PITSETTER, OR AY MCDONALD COIL STYLE PITSETTER WITH COMPOSITE SIDE-LOCKING LID. PITS FOR 3/4" METERS SHALL BE 15" DIA PVC AND SHALL INCLUDE AN INSULATION BLANKET OR DISC. PITS FOR 1" METERS SHALL BE 18" PVC. PITS SHALL INCLUDE FULL PORT ANGLE BALL VALVES ON INLET AND OUTLET. LID SHALL INCLUDE EITHER A PRE-DRILLED HOLE WITH A PLUG OR A LOCATION DESIGNED TO BE EASILY DRILLED OUT TO ACCOMODATE A RADIO FREQUENCY TRANSMITTER WITH A MIN DIA OF 1 1/8". PIT SHALL BE PROVIDED WITH AN ALUMINUM BASE. PIT SHALL BE INSTALLED FLUSH WITH FINISHED GROUND ELEVATION, INCLUDING THE USE OF EXTENSIONS WHERE NECESSARY. CONTRACTOR SHALL ALSO INSTALL A MINIMUM 6" LENGTH OF 5/8" REBAR VERTICALLY ADJACENT TO THE METER PIT, FLUSH WITH FINISHED GROUND SURFACE.

METER PIT SHALL BE SUPPORTED BY A MINIMUM OF 3 EVENLY SPACED CONCRETE BLOCKS OR BRICK.

EXTEND TRACE WIRE THROUGH BASEMENT FLOOR AND LEAVE 10" SLACK IN HOUSE.

MUELLER 300 SERIES BALL VALVE, FORD B-66 SERIES CURB VALVE OR AY MCDONALD 76104 SERIES BALL VALVE OR APPROVED EQUAL

GENERAL NOTES:

1. CONSTRUCTION MATERIALS AND PROCEDURES SHALL COMPLY WITH MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS (MPWSS), 7TH EDITION, APRIL 2021, AS MODIFIED BY THE MISSOULA CITY PUBLIC WORKS STANDARDS AND SPECIFICATIONS MANUAL, APPENDIX 2-A (STANDARD MODIFICATIONS TO MPWSS), CURRENT EDITION.
2. WATER SERVICES SHALL BE BURIED A MINIMUM OF 6' DEEP.
3. THIS DETAIL APPROPRIATE FOR 3/4" OR 1" METERS. CONTRACT CITY UTILITY ENGINEER FOR RESIDENTIAL METERS LARGER THAN 1". IRRIGATION METERS LARGER THAN 1" MUST BE INSTALLED IN A CONCRETE PIT PER STD-412 OR OTHER APPROVED DRAWING.
4. PLASTIC METER PITS ARE NOT TRAFFIC RATED. METER PITS ARE NOT ALLOWED IN SIDEWALKS OR IN A TRAFFIC AREA UNLESS APPROVED BY THE CITY UTILITY ENGINEER. IF APPROVED BY THE CITY UTILITY ENGINEER, INSTALLATION SHALL HAVE A FLUSH MOUNTED, TRAFFIC RATED CASTING INSTALLED OVER THE PIT. THE CASTING DIA SHALL BE AT LEAST 3" LARGER THAN THE METER PIT. THE METER TRANSMITTER SHALL BE INSTALLED ON THE BUILDING WALL WITH A 1/2" CONDUIT BETWEEN THE PIT AND THE WALL.
5. NO OBSTRUCTIONS SHALL BE PLACED WITHIN A MIN 4' RADIUS AROUND THE METER PIT TO ENSURE ACCESS TO THE PIT.
6. NO PRV'S, CHECK VALVES, OR BACKFLOW DEVICES ALLOWED IN METER PIT.
7. THIS DIAGRAM IS NOT PROJECT SPECIFIC AND IS NOT INTENDED TO BE A DESIGN DRAWING. THE OWNER IS RESPONSIBLE TO COMPLY WITH ALL APPLICABLE BUILDING CODES. THIS DETAIL MAY CHANGE AT ANY TIME AND IT IS THE OWNER'S RESPONSIBILITY TO OBTAIN THE MOST CURRENT VERSION OF THIS AND OTHER CITY REQUIREMENTS.
8. IF PROPERTY DOES NOT FRONT A STREET WITH A WATER MAIN, CONTACT CITY FOR SPECIFIC REQUIREMENTS RELATED TO EASEMENTS AND METER PIT LOCATIONS.
9. WHERE NEW WATER SERVICE LINE TRANSITIONS TO EXISTING GALVANIZED SERVICE LINE, THE NEW TRACER WIRE SHOULD BE ATTACHED TO THE GALVANIZED PIPE USING A CHRISTY'S OR APPROVED EQUAL UL APPROVED BRONZE GROUNDING CLAMP SUITABLE FOR DIRECT BURIAL.
10. IF METER PIT IS INSTALLED TOO LOW THE CONTRACTOR/DEVELOPER SHALL BE RESPONSIBLE FOR THE PURCHASE AND INSTALLATION OF A METER RESETER TO BRING TO FINISHED GRADE.



Engineering Division

Typical Residential Water Service Detail

Approved By
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STD - 404A