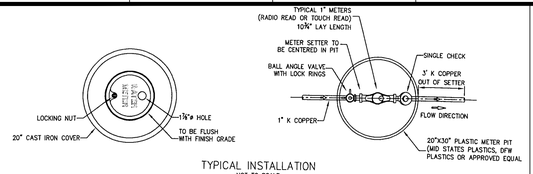
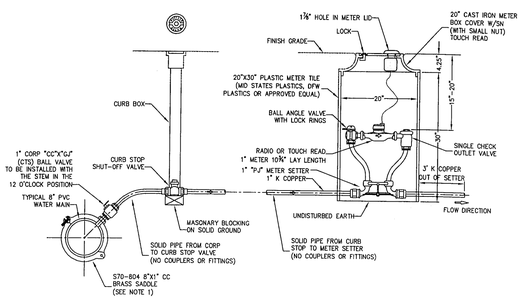



TYPICAL INSTALLATION
NOT TO SCALE



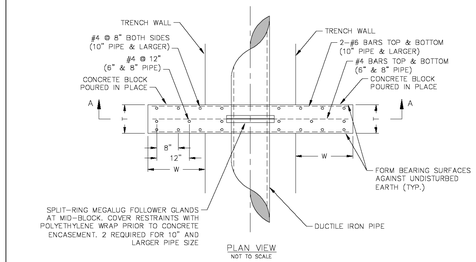

NOTES:

1. 1-1/2' AND 2' SERVICE SADDLES MUST BE INSTALLED SO THAT THE CORPORATION STOP IS IN THE 9 O'CLOCK POSITION ON THE WATER MAIN WITH THE STEM IN THE 12 O'CLOCK POSITION.

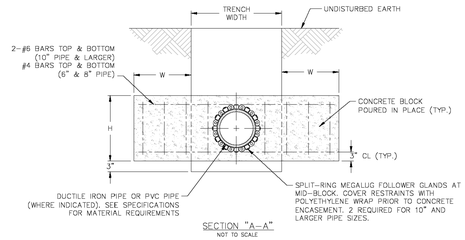
TYPICAL 1" RESIDENTIAL WATER SERVICE
DETAIL "C"
NOT TO SCALE

APRIL 20, 2005
Rev. MAY 1, 2009
Rev. Mar 23, 2021

PUBLIC WATER SUPPLY DISTRICT #2
OF SAINT CHARLES COUNTY




PLAN VIEW
NOT TO SCALE




SECTION "A-A"
NOT TO SCALE

## NOTES

1) CONSTRUCT CROSS BLOCKS AT A MINIMUM OF 15" FROM CONNECTION POINT AND 5" FROM THE BELL END OF PIPE.

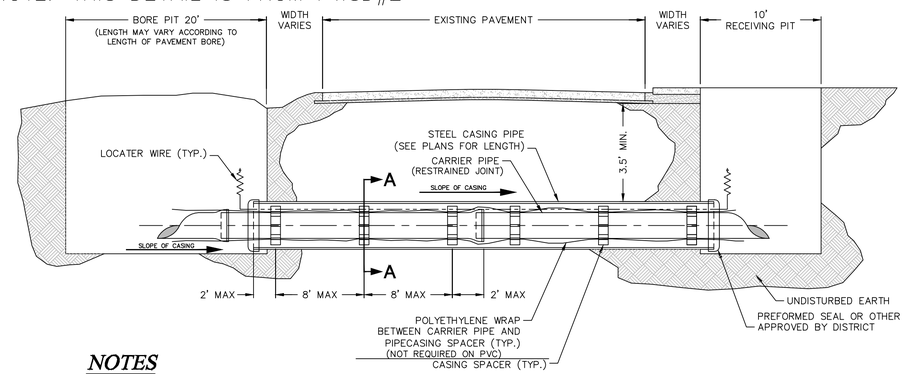
2) CROSS BLOCKS SHALL BE PRE-POURED PRIOR TO SHUTDOWN AND CONNECTIONS.

CROSS BLOCK DIMENSIONS

| PIPE DIA. "D" | WIDTH "W" | HEIGHT "H" | THICKNESS "T" |
|---|---|---|---|
| 4 | 12 | 12 | 12 |
| 6 | 24 | 24 | 12 |
| 8 | 24 | 24 | 12 |
| 10 | 30 | 30 | 16 |
| 12 | 36 | 36 | 18 |

CROSS BLOCK
**DETAIL "E"**

NOTE: THIS DETAIL IS FROM PWSD#2




PLAN VIEW
NOT TO SCALE

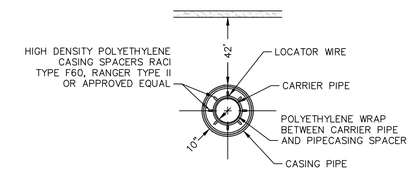
## NOTES

A. INSTALLATION OF THE CASING AND CARRIER PIPES SHALL MEET THE REQUIREMENTS OF PUBLIC WATER SUPPLY DISTRICT No. 2 OF ST. CHARLES COUNTY.

B. CASING PIPES FOR ROAD AND HIGHWAY CROSSINGS SHALL BE WELDED STEEL PIPE WITH A MINIMUM WALL THICKNESS OF ¼" NON-COATED AND SHALL HAVE A MINIMUM DIAMETER OF 10" LARGER THAN THE NOMINAL SIZE OF THE CARRIER PIPE.

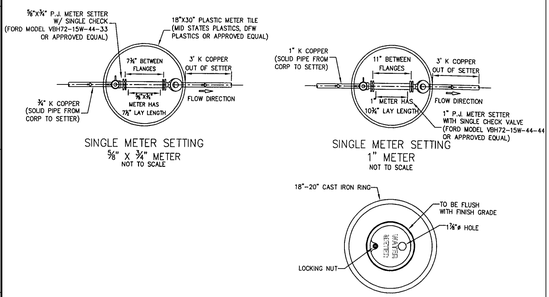
C. THE CARRIER PIPE SHALL BE RESTRAINED JOINT PIPE

FOR SANITARY SEWER BORES, SEE THE MSD DETAIL




SECTION A-A
NOT TO SCALE

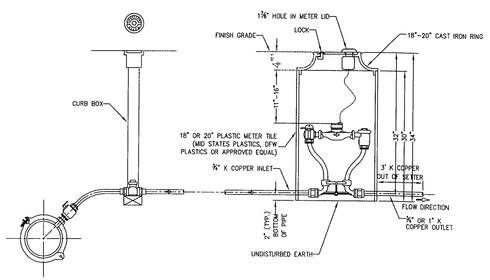
TYPICAL WATER
BORE AND ENCASEMENT
**DETAIL "H"**




SINGLE METER SETTING
⅝" X ¾" METER
NOT TO SCALE

SINGLE METER SETTING
1" METER
NOT TO SCALE

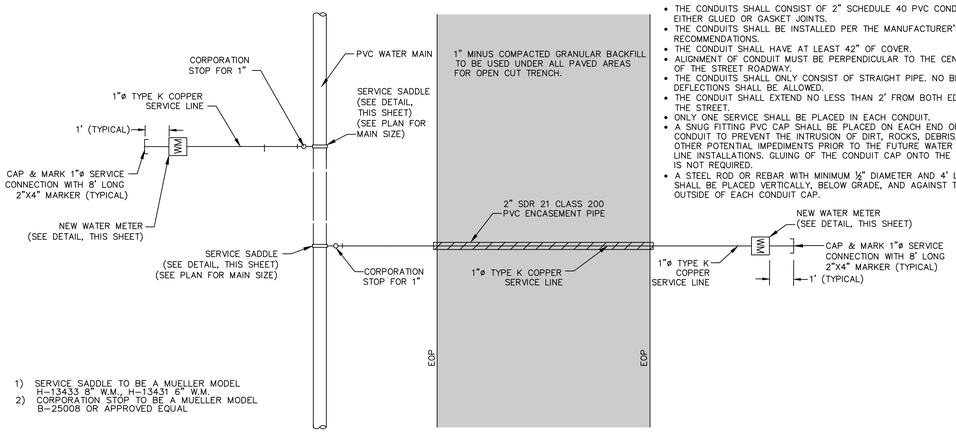



TYPICAL PLASTIC PIT SETTER FOR
MODERATE TO COLD CLIMATES
DETAIL "D"
NOT TO SCALE

APRIL 20, 2005
Rev. SEPT. 5, 2007
Rev. Mar 23, 2021

PUBLIC WATER SUPPLY DISTRICT #2
OF SAINT CHARLES COUNTY




1) SERVICE SADDLE TO BE A MUELLER MODEL H-13433 8" W.M., H-13431 6" W.M.
2) CORPORATION STOP TO BE A MUELLER MODEL B-25008 OR APPROVED EQUAL

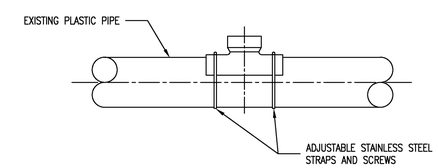
1" MINUS COMPACTED GRANULAR BACKFILL TO BE USED UNDER ALL PAVED AREAS FOR OPEN CUT TRENCH.

SERVICE CONNECTION DETAIL
NO SCALE

INSTALLATION OF CONDUITS FOR PROPOSED 1" WATER SERVICE LINES WILL REQUIRE THE FOLLOWING:

- THE CONDUITS SHALL CONSIST OF 2" SCHEDULE 40 PVC CONDUIT WITH EITHER GLUED OR GASKET JOINTS.
- THE CONDUITS SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
- THE CONDUIT SHALL HAVE AT LEAST 42" OF COVER.
- ALIGNMENT OF CONDUIT MUST BE PERPENDICULAR TO THE CENTERLINE OF THE STREET ROADWAY.
- THE CONDUITS SHALL ONLY CONSIST OF STRAIGHT PIPE. NO BENDS OR DEFLECTIONS SHALL BE ALLOWED.
- THE CONDUIT SHALL EXTEND NO LESS THAN 2' FROM BOTH EDGES OF THE STREET.
- ONLY ONE SERVICE SHALL BE PLACED IN EACH CONDUIT.
- A SNUG FITTING PVC CAP SHALL BE PLACED ON EACH END OF THE CONDUIT TO PREVENT THE INTRUSION OF DIRT, ROCKS, DEBRIS, OR OTHER POTENTIAL IMPEDIMENTS PRIOR TO THE FUTURE WATER SERVICE LINE INSTALLATIONS. GLUING OF THE CONDUIT CAP ONTO THE CONDUIT IS NOT REQUIRED.
- A STEEL ROD OR REBAR WITH MINIMUM ½" DIAMETER AND 4' LENGTH SHALL BE PLACED VERTICALLY, BELOW GRADE, AND AGAINST THE OUTSIDE OF EACH CONDUIT CAP.

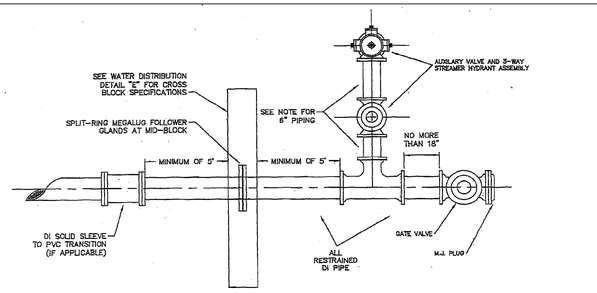
PLASTIC SADDLE TEE OR WYE FITTING (SOLVENT WELD)




WHEN CONNECTION TO A PLASTIC PIPE IS ALLOWED AND A CONNECTION IS LARGER THAN 6" IN DIAMETER. A SOLVENT WELD WYE OR TEE FITTING OF A SIMILAR MATERIAL MUST BE USED. (EXAMPLE: 10" x 8")

THIS IS ACCOMPLISHED BY CAREFULLY CUTTING A HOLE WITH A SAW IN THE MAIN AT THE REQUIRED LOCATION AFTER CUTTING AND SHAPING THE HOLE TO THE SIZE OF THE FITTING. THE FOLLOWING STEPS SHOULD BE TAKEN:

1. CLEAN AND DRY BOTH INSIDE THE SADDLE WYE SURFACE AND PIPE SURFACE TO BE SOLVENT CEMENTED.
2. IMPORTANT: APPLY A LIBERAL, HEAVY COAT OF ONE-STEP SOLVENT CEMENT TO THE INSIDE SURFACE OF THE SADDLE WYE AND TO THE EXTERIOR WELDING SURFACE TO THE PIPE.
3. WITHOUT DELAY, MATE THE SURFACES AND STRAP DOWN TIGHTLY. A BEAD OF SOLVENT SHOULD APPEAR AFTER THE SADDLE HAS BEEN STRAPPED DOWN TIGHTLY.
4. USING A RAG OR PAPER TOWEL, WIPE BEAD AND ANY EXCESS SOLVENT CEMENT OFF PIPE AND SADDLE.
5. ALLOW 30-60 MINUTES FOR SET-UP TIME BEFORE BACKFILLING. CURE TIME DEPENDS ON SIZE FIT OF MATERIALS BEING INSTALLED AND VARIOUS COLD DAMP CONDITIONS.
6. DISCARD OLD SOLVENT IF IT BECOMES JELLED OR LUMPY.
7. A CLEAN, DRY BEDDING MATERIAL IS REQUIRED AROUND THE COMPLETED CONNECTION BEFORE BACKFILLING. THE BEDDING MATERIAL SHOULD BE ONE OF THE FOLLOWING:
   A. 1 TO 3 CEMENT TO SAND MIX
   B. "PRE-MIX" CONCRETE.
   C. DCSD APPROVED BEDDING FOR SANITARY SEWERS.




PLAN VIEW
NOT TO SCALE

**NOTES:**
6" PIPES BETWEEN TEE AND VALVE AND BETWEEN VALVE AND FIRE HYDRANT SHALL BE D.I. "ANCHOR LOKS" OR DUCTILE IRON PIPE WITH "MEGALUG" RESTRAINER FOLLOWER GLANDS ON ALL M.J. JOINTS.

WATER MAIN
TERMINATION DETAIL

Rev1 8-8-2018
Rev2 4-2019

Duckett Creek Sanitary District

| Duckett Creek Sanitary District | | | |
|---|---|---|---|
| 8" AND LARGER CONNECTION TO PLASTIC MAIN | Dwn By: BSM | App By: KA | Detail No. 20A |
| | Ckd By: MDOB | Date: DEC. 2015 | |

OWNER/DEVELOPER:
DD LAND DEVELOPMENT, LLC
10407 BAUR BLVD. SUITE B
ST. LOUIS, MO 63132


636-584-0540 (tel.)
636-584-0542 (fax)
mail@cochranengineering.com
5304 E. Independence Dr.
Union, Missouri 63084
COCHRAN
• Civil Engineering
• Land Surveying
• Architecture
• Site Development
• General Consulting
• Master Planning


Missouri State Certificate of Authority Numbers:
Survey : 000380
Engineering : 001655
Architecture: 2002014240

Three working days prior to the start of any excavation on this site, contractor shall call Missouri One Call for utility location information.

All OSHA rules & regulations established for the type of construction being performed. These plans shall be strictly followed (ie. Trenching, Blasting, etc.)

STATE OF MISSOURI
TIMOTHY SCHOWE
NUMBER PE-2018000268
5-9-22
PROFESSIONAL ENGINEER

THE STREETS OF CALEDONIA
PHASE 4 RESIDENTIAL
O'FALLON, MISSOURI

| DATE: | REVISION: | DRN. BY: | APPD. BY: |
|---|---|---|---|
| | | | |

DETAIL SHEET

DRN. BY: JMM
APPD. BY: ERR
DATE: MAY 09, 2022
SCALE: NO SCALE
PROJ. NO: 17-6821
DWG. NO: C14.08

Drawing name: F:\17-6821 - 260 Acre Tract along Hwy 40, O'Fallon, MO\AutoCad Drawings\6821 - Plan Sheets\Construction Drawings\PH4 Residential Plans\39_Detail Sheet - Phase 4.dwg Tab: C14.08 Plotted on: May 08, 2022 - 4:08pm Plotted by: jmeyer