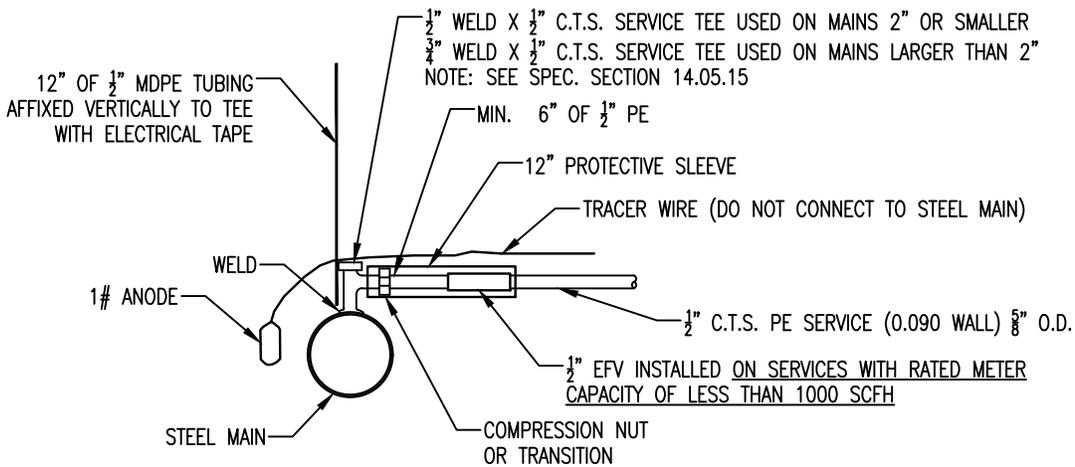


## GAS SYSTEM DETAILS

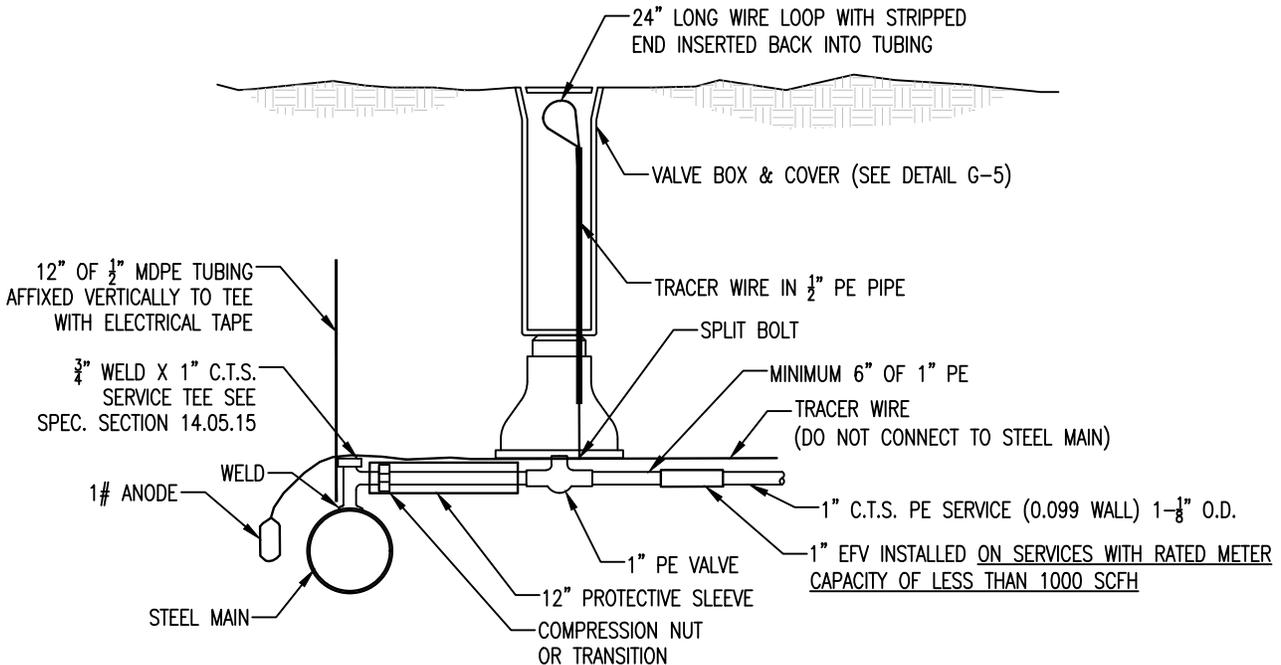
- G-2 STEEL TO PE SERVICE CONNECTION
- G-3 GAS MAIN BRANCH CONNECTIONS TO STEEL MAIN
- G-4 TYPICAL WELD JOINTS
- G-5 PE VALVE BOX SETTING
- G-6 TRACER WIRE ACCESS BOX
- G-7 12" POLYVALVE CUSTOM VALVE BOX
- G-7A 12" POLYVALVE CUSTOM VALVE VAULT
- G-8 GAS CASING INSTALLATION AT RAILROAD, HIGHWAY, OR OTHER
- G-9 TYPICAL STEEL GAS SERVICE RISER - 3" AND LARGER
- G-10  $\frac{1}{2}$ " GAS SERVICE INSTALLATION - RESIDENTIAL
- G-11 GAS SERVICE INSTALLATION - 1" CTS & 2" IPS SERVICE
- G-11A METER INSTALLATION, SIZES 415/425 & 1000
- G-12 ROOTS METER INSTALLATION
- G-12A 15C ROOTS COMPACT METER INSTALLATION.....(REMOVED)
- G-12B 5M ROOTS COMPACT METER INSTALLATION
- G-13 UNDERGROUND GAS FUEL LINE PIPING - PAST METER
- G-14 DUPLEX METER CONNECTION.....(REMOVED)
- G-14A TYPICAL MULTI-METER INSTALLATION
- G-14B TYPICAL MULTI-METER INSTALLATION -  
6 RESIDENTIAL METERS.....(REMOVED)
- G-15 MOBILE HOME GAS METER CONNECTION
- G-16 SEALING UNUSED LP GAS SERVICES
- G-17 CATHODIC PROTECTION
- G-18 TYPICAL METHOD OF BRAZED CONNECTION TO PIPE
- G-22 GAS PIPING BUILDING ENTRY, BELOW GRADE.....(REMOVED)
- G-23 TYPICAL WELL FOR BELOW GRADE GAS PIPE ENTRY
- G-24 BELOW GRADE GAS PIPING REVISION
- G-26 TELEMETRIC GAS PRESSURE STATION
- G-33 BOLLARD DETAIL
- G-34 REGULATOR VENT EXTENSION
- G-35 METER LOCATION
- G-36 ELEVATED PRESSURE METER LOCATION.....(REMOVED)
- G-37 1", 2", OR 3" CONNECTION FOR HDPE GAS MAINS
- G-38 ROTARY METER GAS BASE



NOTE:

- SAND COVER MN/DOT 3149.2.J TO BE PLACED AND HAND TAMPED BENEATH COMPRESSION NUTS AND TRANSITIONS (INCIDENTAL).

1/2" C.T.S. PE SERVICE ON STEEL MAIN



NOTE:

- SAND COVER MN/DOT 3149.2.J TO BE PLACED AND HAND TAMPED BENEATH COMPRESSION NUTS AND TRANSITIONS (INCIDENTAL).

1" C.T.S. PE SERVICE ON STEEL MAIN

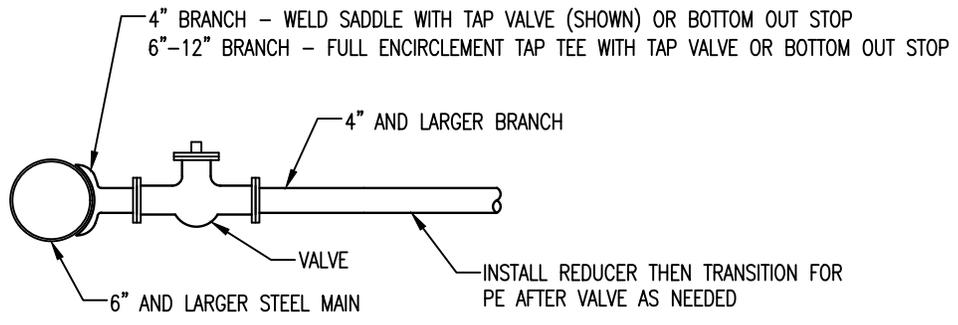
STEEL TO PE SERVICE CONNECTIONS

G-2

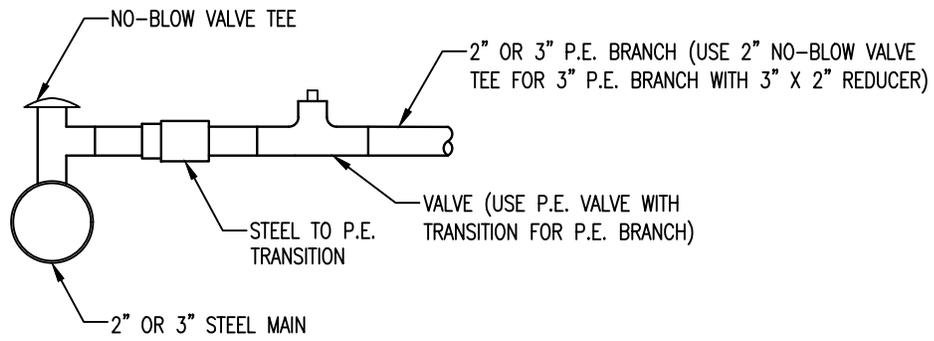
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CITY OF DULUTH STANDARD DETAIL  
DEPT. OF PUBLIC WORKS AND UTILITIES

NO SCALE



SIDE SADDLE



NO-BLOW VALVE

GAS MAIN BRANCH CONNECTIONS TO STEEL MAIN

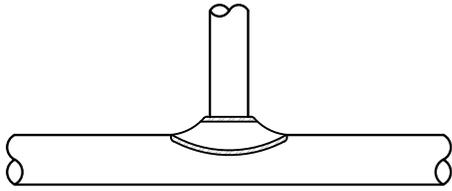
G-3

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CITY OF DULUTH STANDARD DETAIL  
 DEPT. OF PUBLIC WORKS AND UTILITIES

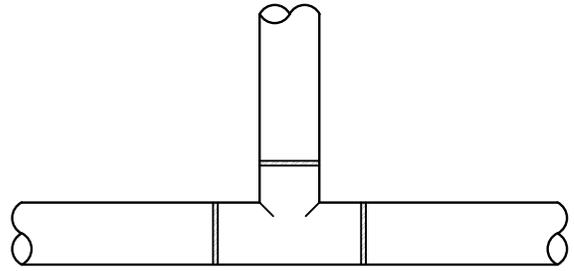
NO SCALE

REDUCED LATERAL

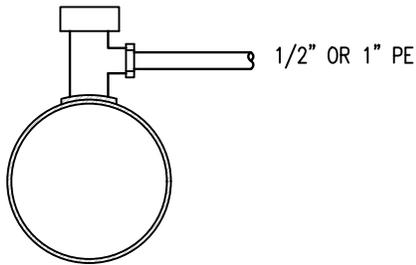


SADDLE

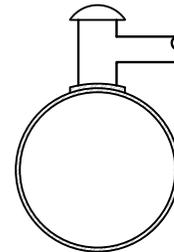
FULL SIZE OR REDUCED ONE SIZE ONLY



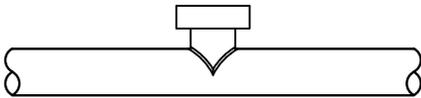
WELDING TEE IN LINE



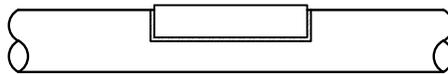
1/2" AND 1" TAP TEES



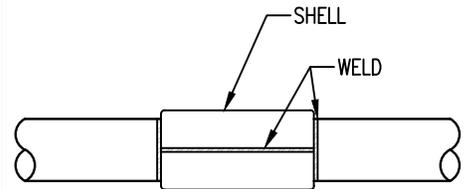
1", 1-1/2", 2" NO-BLOW TEE



MUELLER STOP - 2" & 3" RUBBER PLUG

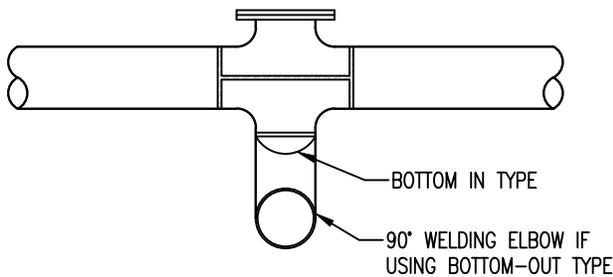


HALF SOLE REPAIR



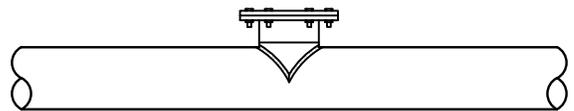
PUMPKIN ENCIRCLEMENT

MUELLER LINE STOP



MUELLER STOP  
4"-6"-8"-10"-12"  
(STEEL PLUG)

T.D. WILLIAMSON LINE STOP



T.D. WILLIAMSON STOP  
16"

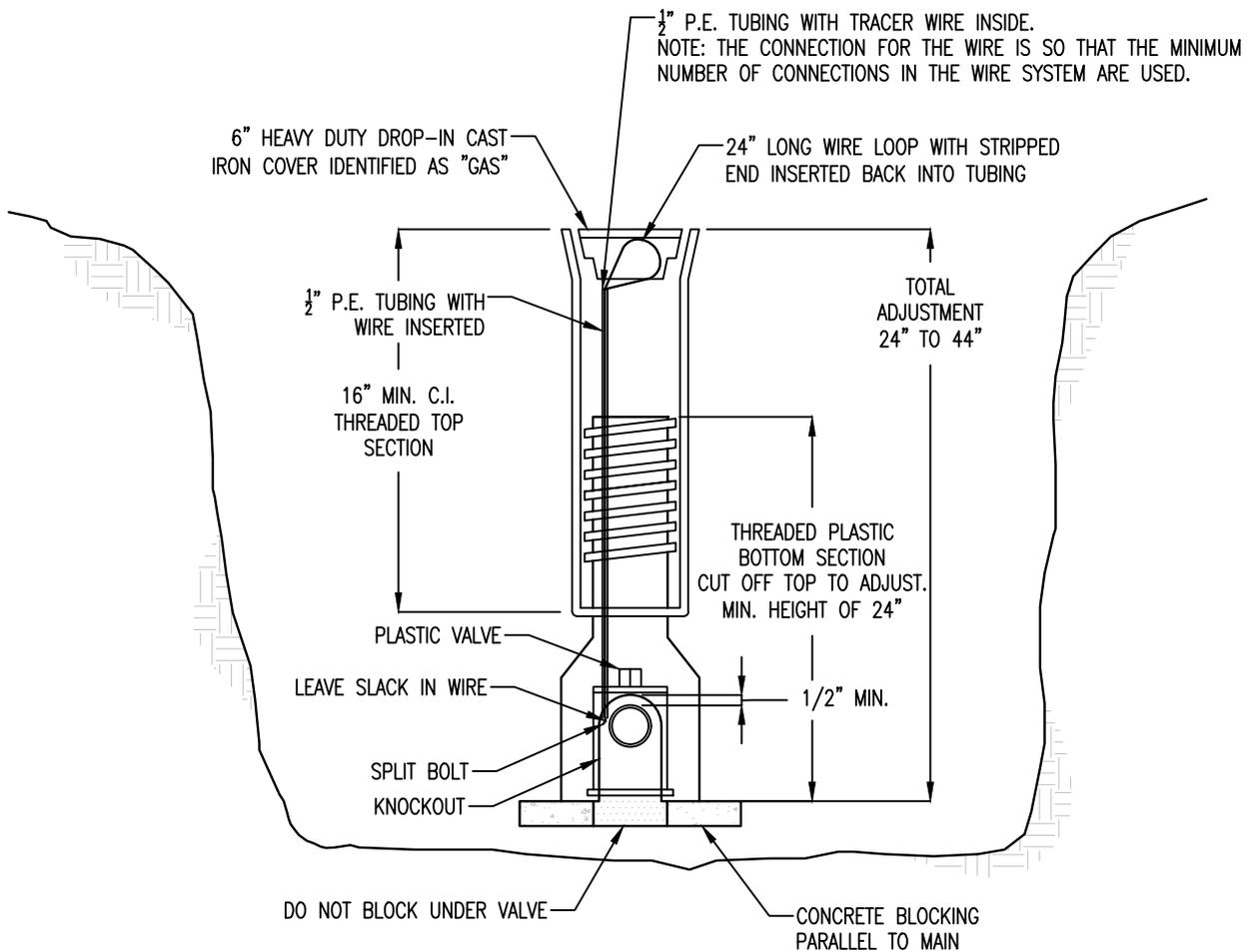
TYPICAL WELD JOINTS

G-4

REVISED/APPROVED 02/25/2026

CITY OF DULUTH STANDARD DETAIL  
DEPT. OF PUBLIC WORKS AND UTILITIES

NO SCALE



**NOTE:**

1. WHERE GAS MAINS OR SERVICES ARE DEEPER A CAST IRON VALVE BOX MIDDLE SECTION MAY BE REQUIRED (INCIDENTAL).

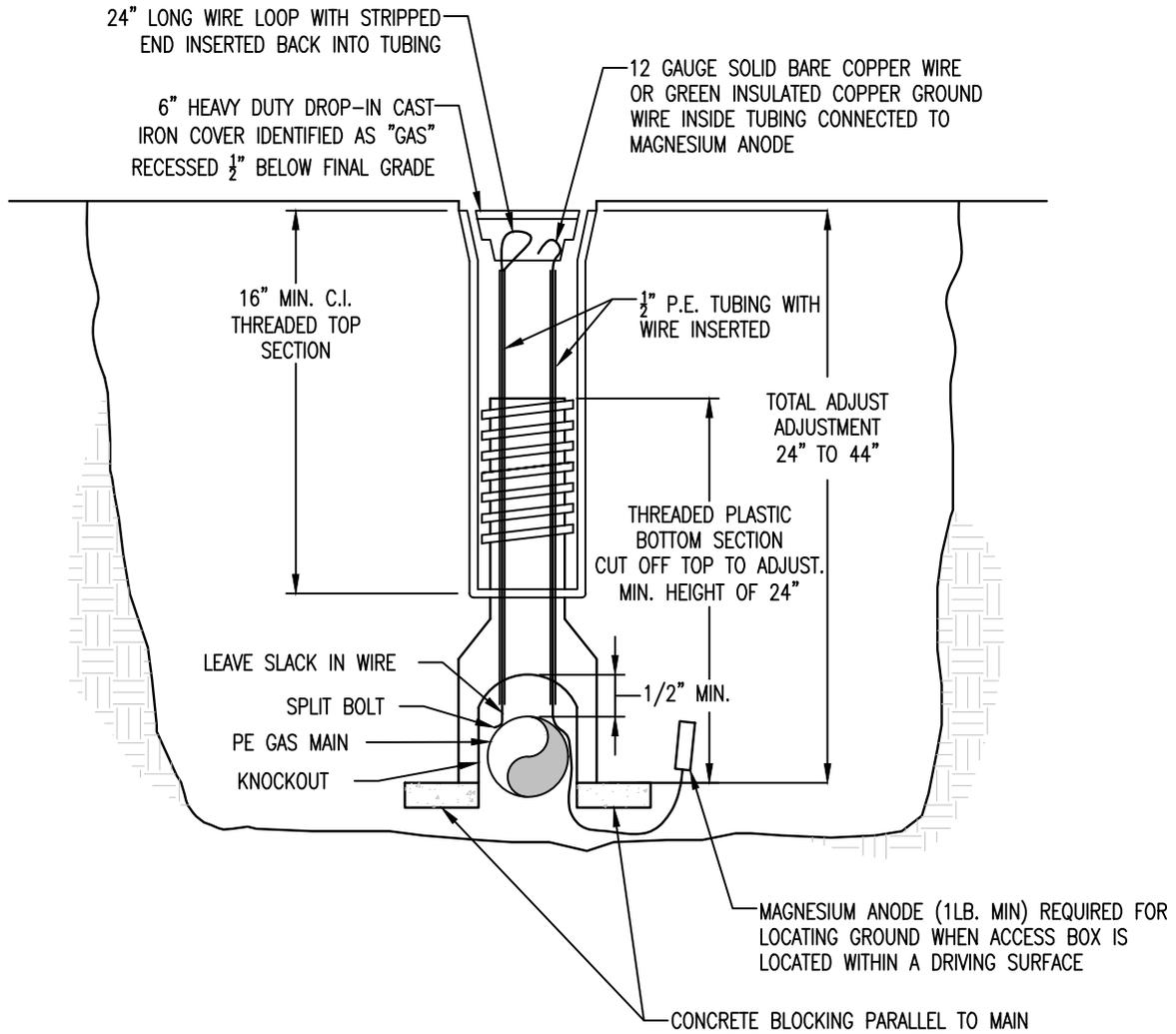
PE VALVE BOX SETTING

G-5

REVISED/APPROVED 02/25/2026

CITY OF DULUTH STANDARD DETAIL  
DEPT. OF PUBLIC WORKS AND UTILITIES

NO SCALE



**NOTE:**

1. WHERE GAS MAINS OR SERVICES ARE DEEPER A CAST IRON VALVE BOX MIDDLE SECTION MAY BE REQUIRED (INCIDENTAL).
2. FOR BOXES IN ROADWAY CONSTRUCT CONCRETE COLLAR PER STANDARD DETAIL W-19.

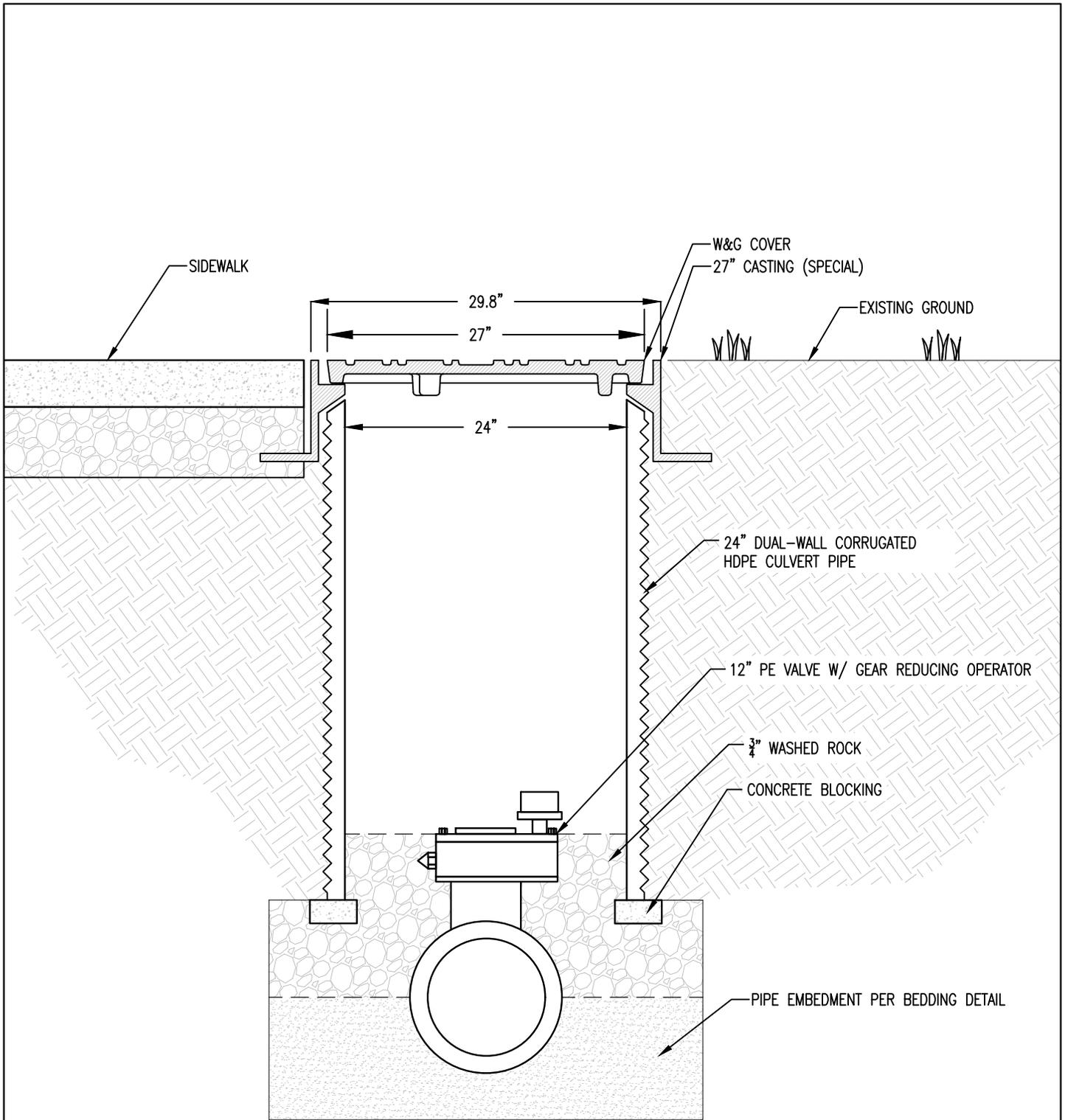
TRACER WIRE ACCESS BOX

G-6

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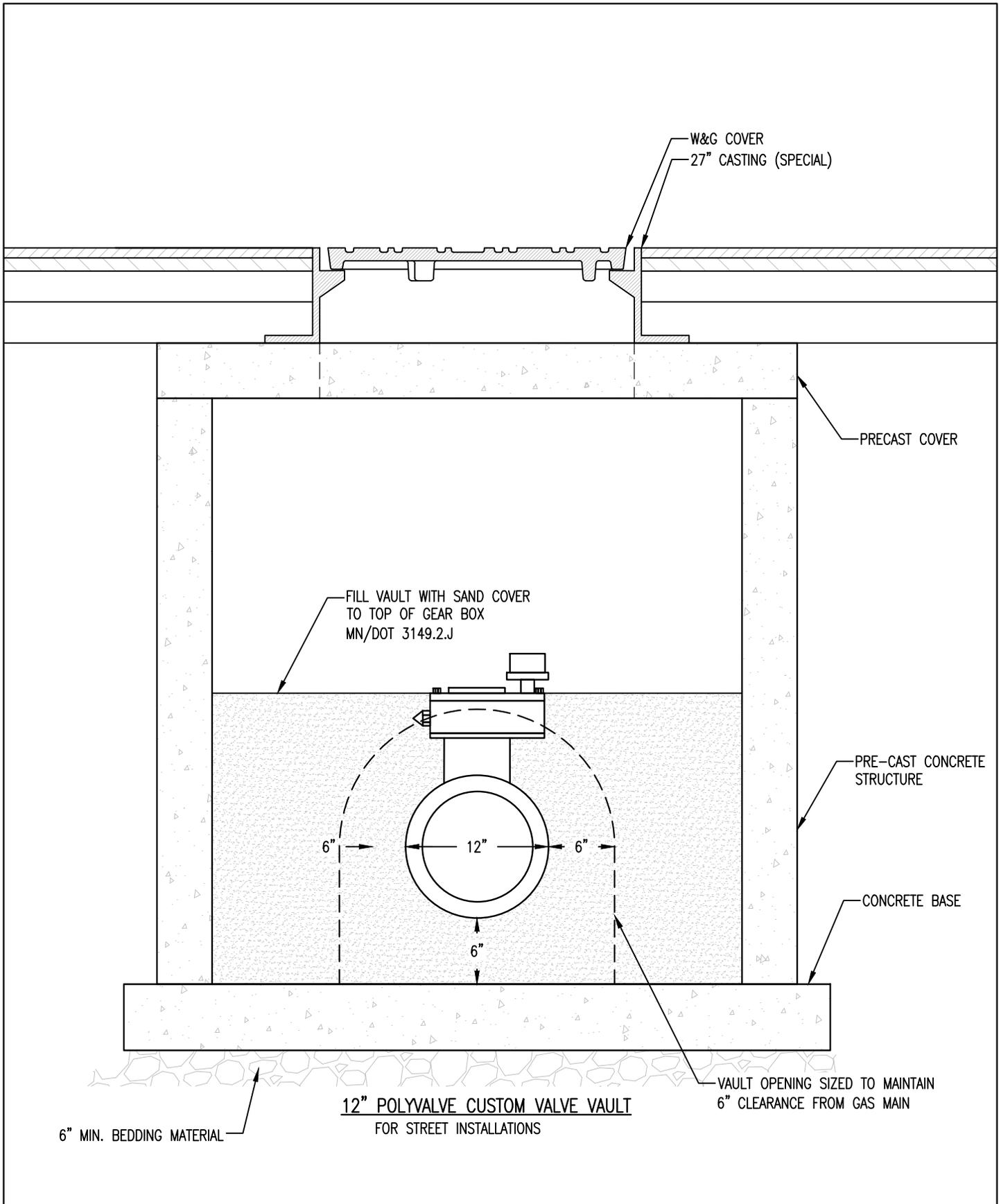
CITY OF DULUTH STANDARD DETAIL  
DEPT. OF PUBLIC WORKS AND UTILITIES

NO SCALE

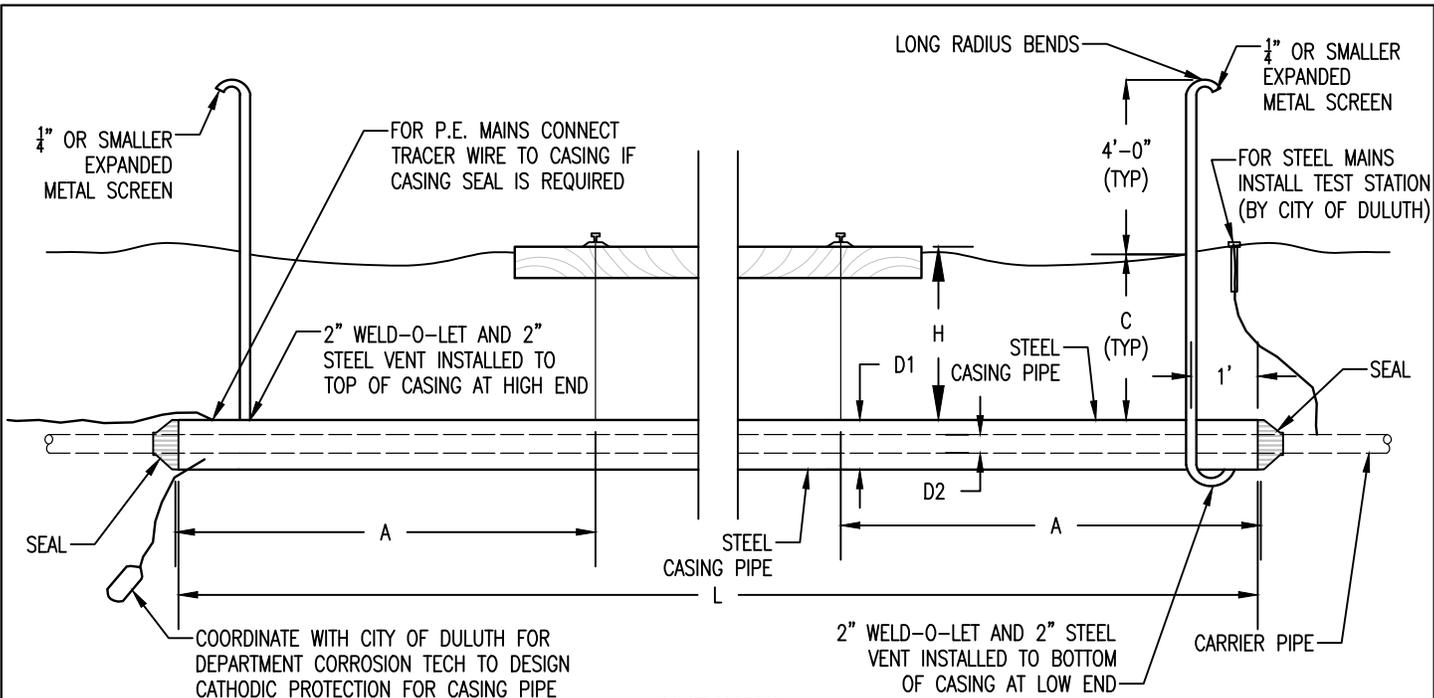


**12" POLYVALVE CUSTOM VALVE BOX**  
FOR TURF AND SIDEWALK APPLICATIONS

|                                |   |          |
|--------------------------------|---|----------|
| 12" POLYVALVE CUSTOM VALVE BOX |   | G-7      |
| REVISED/APPROVED 02/25/2026    | CITY OF DULUTH STANDARD DETAIL<br>DEPT. OF PUBLIC WORKS AND UTILITIES | NO SCALE |



|                                  |   |          |
|----------------------------------|---|----------|
| 12" POLYVALVE CUSTOM VALVE VAULT |   | G-7A     |
| REVISED/APPROVED 02/25/2026      | CITY OF DULUTH STANDARD DETAIL<br>DEPT. OF PUBLIC WORKS AND UTILITIES | NO SCALE |



**DIMENSIONS**

A = \_\_\_\_\_ D1 (CASING DIAMETER) = \_\_\_\_\_

L = \_\_\_\_\_ D2 (CARRIER DIAMETER) = \_\_\_\_\_

H = \_\_\_\_\_ CASING THICKNESS = \_\_\_\_\_

C = \_\_\_\_\_ 1/4" - 6" THRU 16"

5/16" - 18" THRU 20"

3/8" - 22" THRU 24"

**MATERIALS**

CASING = \_\_\_\_\_ CARRIER PIPE = \_\_\_\_\_

CASING SEALS - P.S.I. MODEL "S"  
FOR PE, LINK SEAL FOR STEEL PIPE = \_\_\_\_\_ VENT PIPE - 2" WELDED  
STEEL AS DETAILED \_\_\_\_\_

CASING INSULATORS = \_\_\_\_\_ OPERATING PRESSURE = \_\_\_\_\_

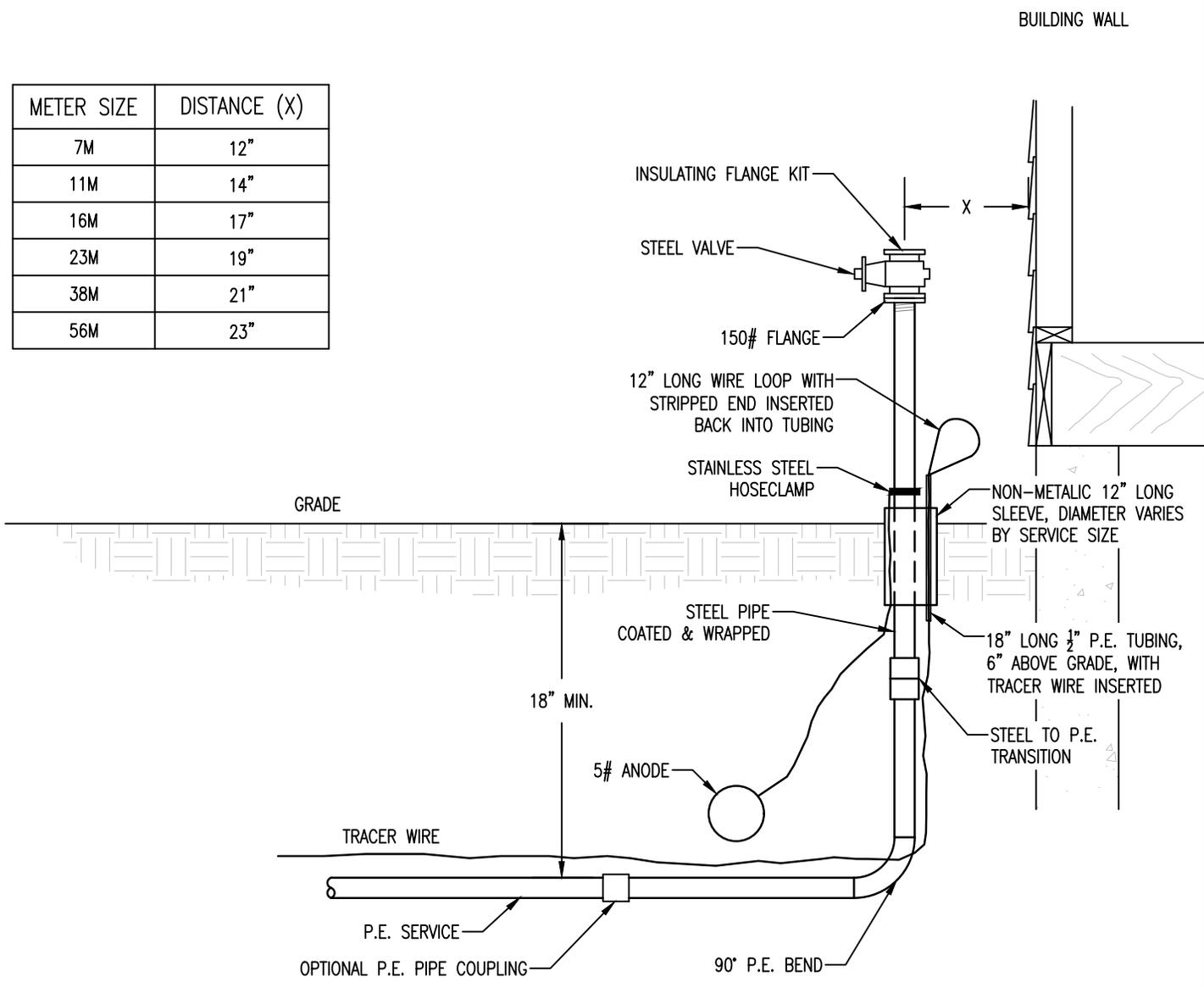
**GENERAL INFORMATION**

CROSSING AUTHORITY = \_\_\_\_\_ CROSSING LOCATION = \_\_\_\_\_

NUMBER OF TRACKS/LANES = \_\_\_\_\_ METHOD OF INSTALLATION = \_\_\_\_\_

|  |   |          |
|--|---|----------|
| GAS CASING INSTALLATION AT RAILROAD, HIGHWAY, OR OTHER |   | G-8      |
| REVISED/APPROVED 02/25/2026                            | CITY OF DULUTH STANDARD DETAIL<br>DEPT. OF PUBLIC WORKS AND UTILITIES | NO SCALE |

| METER SIZE | DISTANCE (X) |
|------------|--------------|
| 7M         | 12"          |
| 11M        | 14"          |
| 16M        | 17"          |
| 23M        | 19"          |
| 38M        | 21"          |
| 56M        | 23"          |



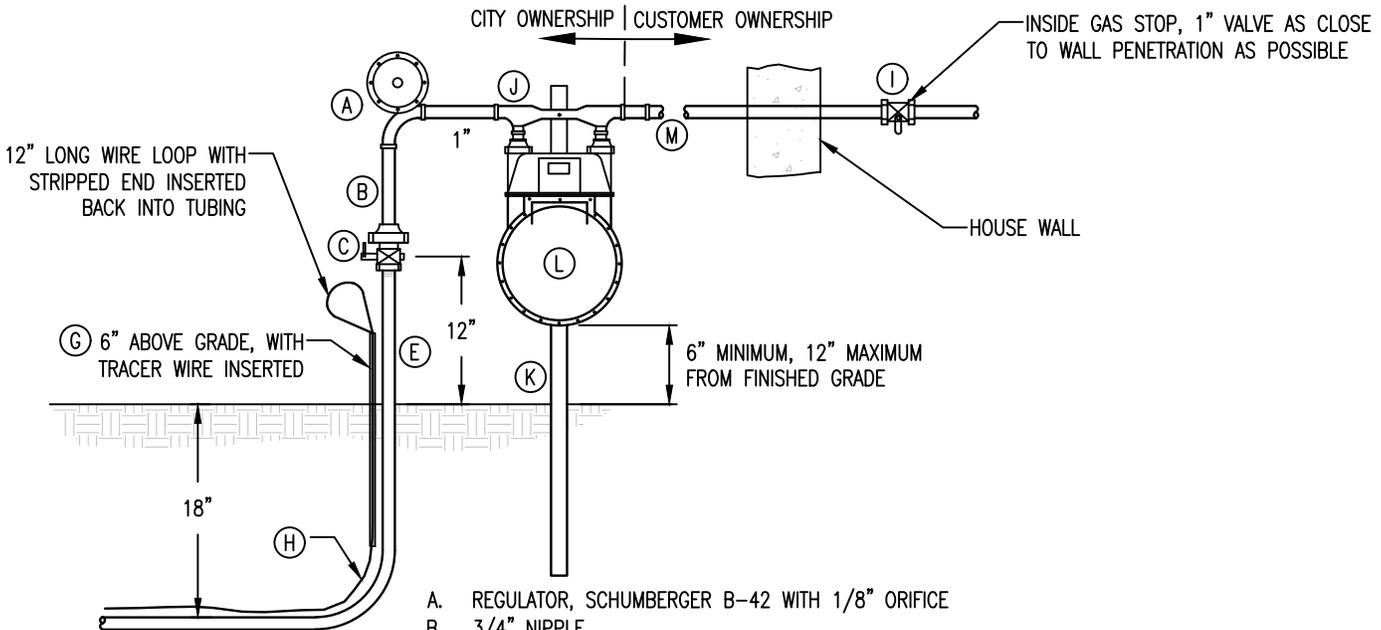
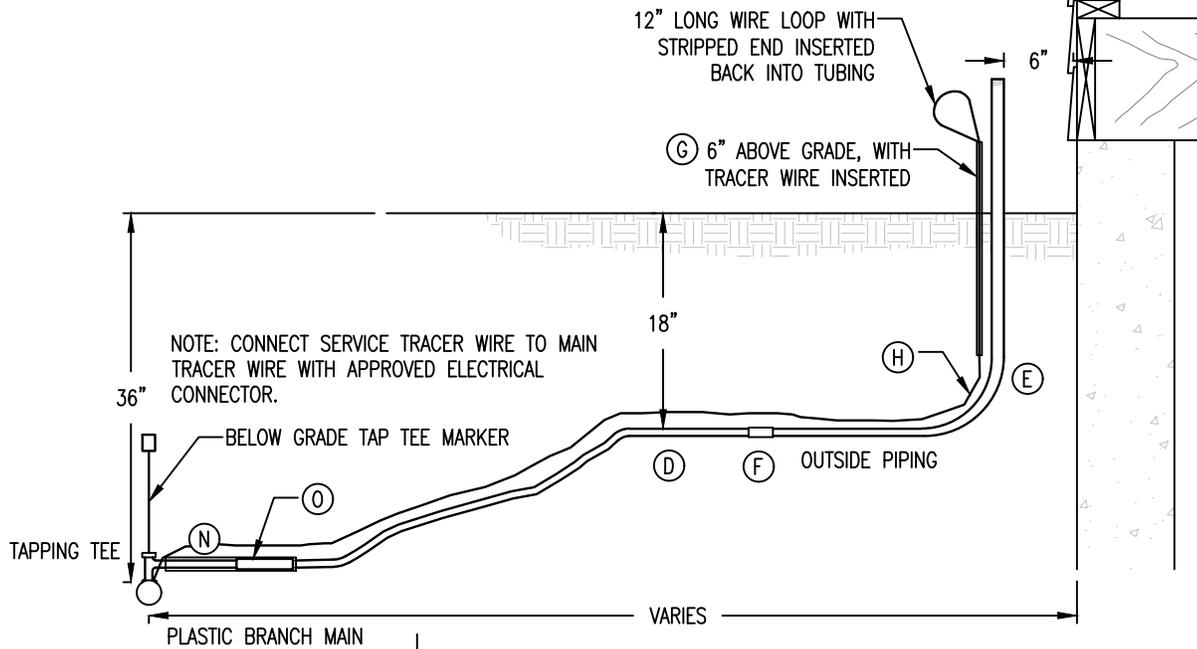
TYPICAL STEEL GAS SERVICE RISER – 3" AND LARGER

G-9

REVISED/APPROVED 02/25/2026

CITY OF DULUTH STANDARD DETAIL  
DEPT. OF PUBLIC WORKS AND UTILITIES

NO SCALE



- A. REGULATOR, SCHUMBERGER B-42 WITH 1/8" ORIFICE
- B. 3/4" NIPPLE
- C. 3/4" METER STOP
- D. 1/2" C.T.S. P.E. PIPE (5/8" O.D.)
- E. 1/2" X 3/4" ANODELESS SERVICE RISER
- F. 1/2" C.T.S. P.E. SOCKET COUPLING
- G. 1/2" P.E. TUBING 18" IN LENGTH
- H. COATED TRACER WIRE
- I. 1" BRONZE BALL VALVE
- J. METER BAR
- K. METER POST
- L. METER
- M. 1" MINIMUM BLACK STEEL PIPE
- N. 1" OR 2" P.E. 'FROST SLEEVE' 12" LONG
- O. 1/2" EFV INSTALLED ON SERVICE WITH RATED METER CAPACITY OF LESS THAN 1000 SCFH

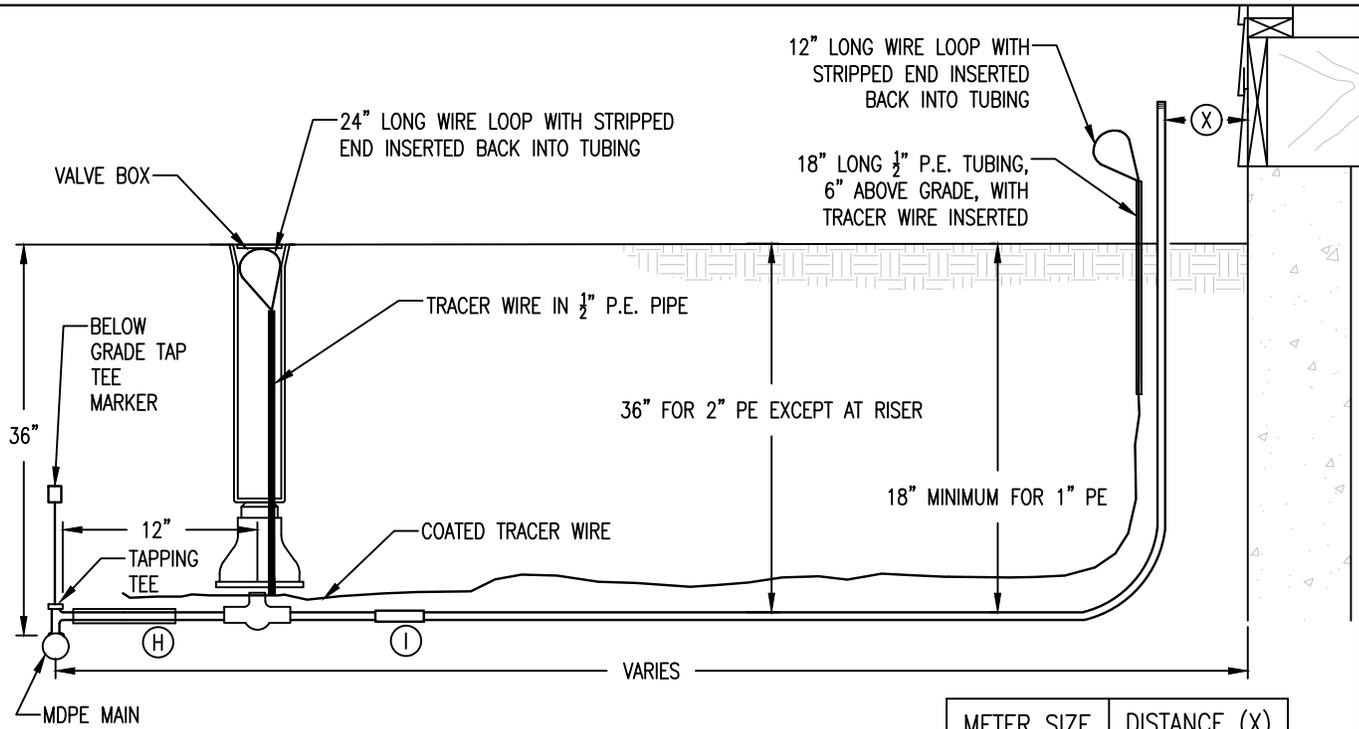
1/2" GAS SERVICE INSTALLATION – RESIDENTIAL

G-10

REVISED/APPROVED 02/25/2026

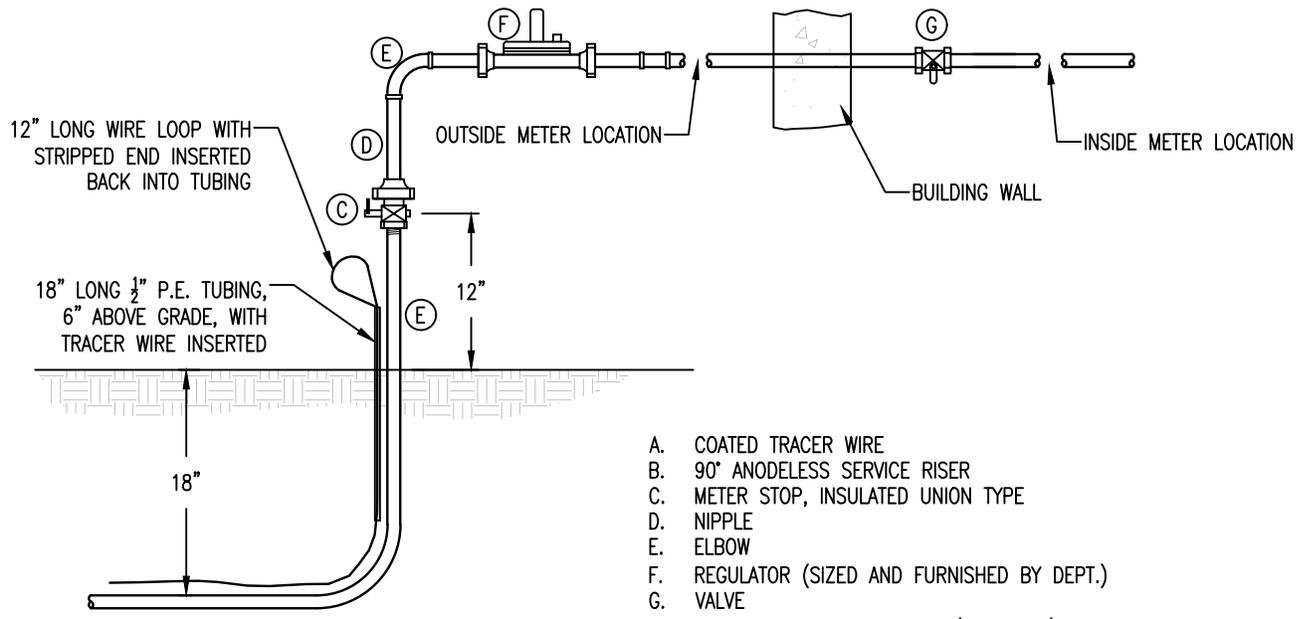
CITY OF DULUTH STANDARD DETAIL  
DEPT. OF PUBLIC WORKS AND UTILITIES

NO SCALE

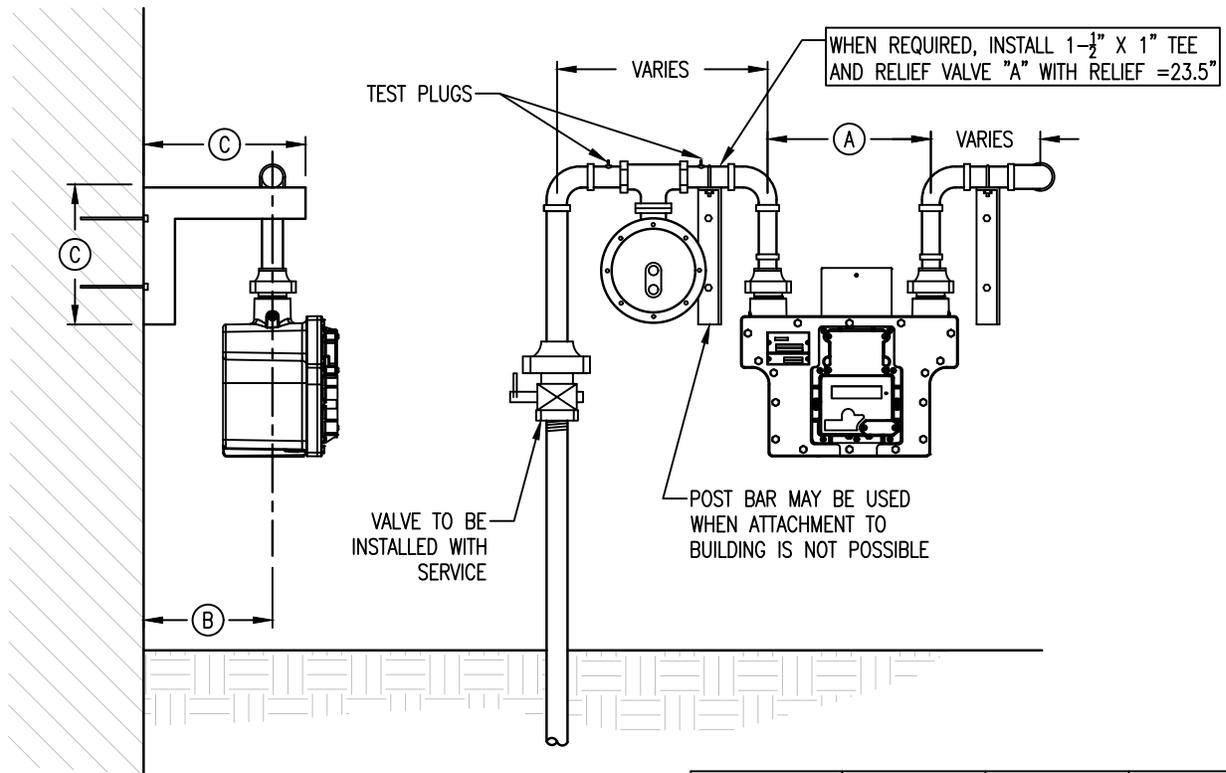


1. CONNECT SERVICE TRACER WIRE TO MAIN TRACER WIRE WITH ELECTRIC CONNECTOR.
2. IN MULTIPLE METER SITUATIONS, EACH METER SHALL HAVE A LOCKING VALVE WHICH ALLOWS ANY METER TO BE LOCKED OUT OF SERVICE WHILE THE OTHER REMAIN IN SERVICE.
3. TEST POINTS SHALL BE INSTALLED WITH 1-1/4" OR LARGER REGULATOR ON HIGH AND LOW SIDES USING WELD ON 1/4" COUPLING COMPLETE WITH PETE'S PLUGS.

| METER SIZE | DISTANCE (X) |
|------------|--------------|
| <7M        | 9"           |
| 7M         | 12"          |
| 11M        | 14"          |
| 16M        | 17"          |
| 23M        | 19"          |



- A. COATED TRACER WIRE
- B. 90° ANODELESS SERVICE RISER
- C. METER STOP, INSULATED UNION TYPE
- D. NIPPLE
- E. ELBOW
- F. REGULATOR (SIZED AND FURNISHED BY DEPT.)
- G. VALVE
- H. PLASTIC PROTECTIVE SLEEVE (RIGID P.E.)
- I. 1" EFV - ON ALL SERVICES WITH RATED METER CAPACITY OF 1000 SCFH OR LESS



NOTE:

- ① EXTEND VENT ONLY WHEN NECESSARY, SEE O & M SECTION 30. DEPT. TO FURNISH: REGULATOR, TEST "PETE'S PLUG" - 2 EACH WITH 1-1/2" NIPPLES, METER WITH SWIVELS AND NUTS, AND ANGLE BRACKETS.
- ② SECONDARY RELIEF DEVICE MAY BE REQUIRED.

| DIMENSION | 415 | 425   | D1000 |
|-----------|-----|-------|-------|
| A         | 7"  | 8.25" | 11"   |
| B         | 9"  | 9"    | 9"    |
| C         | 11" | 11"   | 11"   |

|  |                |         |                 |                |
|--|----------------|---------|-----------------|----------------|
| CUSTOMER LOAD (CFH)                                      | 397 TO 625     |         | 600 TO 1700     |                |
| METER SIZE   | 415/425        |         | D1000           |                |
| METER CONNECTION   | 1-1/2"         |         | 2"              |                |
| PRESSURE LOSS (WC)                                       | 1/2" @ 397 CFH |         | 1/2" @ 397 CFH  |                |
|  | 1" @ 595 CFH   |         | 1" @ 1428 CFH   |                |
| REGULATOR TYPE   | ITRON B42R     |         | ITRON B42R      |                |
| SYSTEM PRESSURE  | 22#-10#        | 66#-30# | 22#-10#         | 66#-30#        |
| ORIFICE  | 1/8"           | 1/8"    | 3/16"           | 3/16" ②        |
| CAP @ PIN MAX. *   | 600            | 1560    | 2240            | 2500           |
| CAP @ PIN MIN. *   | 400            | 765     | 1470            | 2025           |
| VENT MAX. LENGTH ①                                       | 130'           | 20'     | 0'-3/4", 30'-1" | 0'-3/4", 8'-1" |
| * CAPACITY DATA IS FOR SANDARD 7" (WC) DELIVERY PRESSURE |                |         |                 |                |

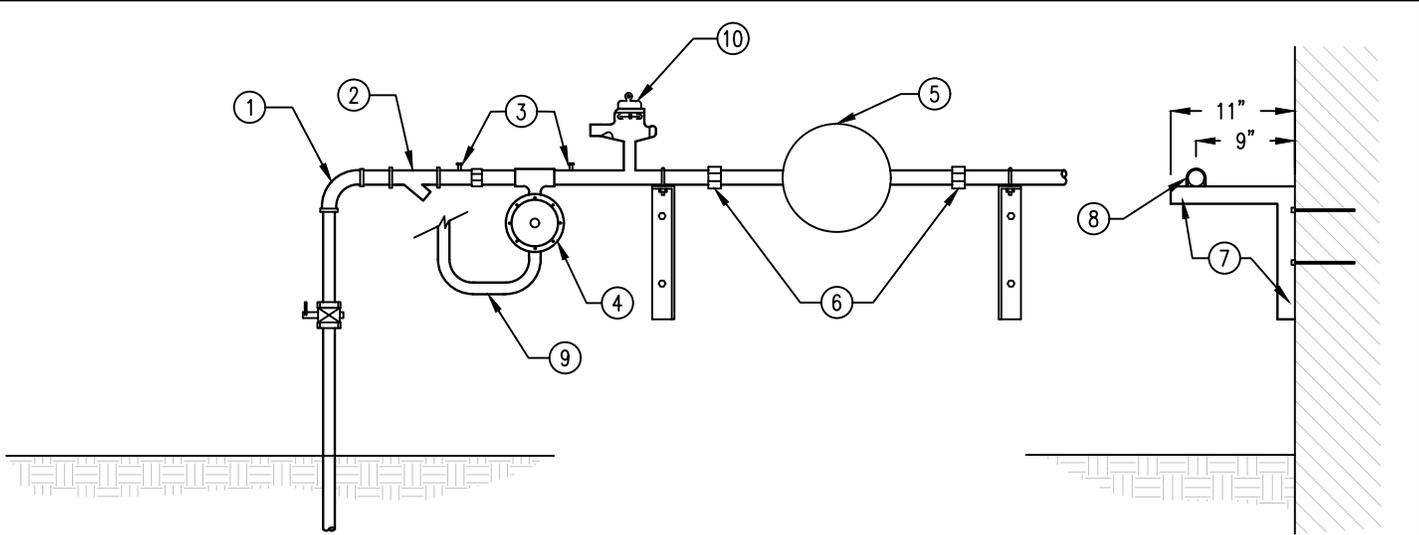
METER INSTALLATION DETAIL - SIZES 415/425 & D1000

G-11A

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CITY OF DULUTH STANDARD DETAIL  
DEPT. OF PUBLIC WORKS AND UTILITIES

NO SCALE

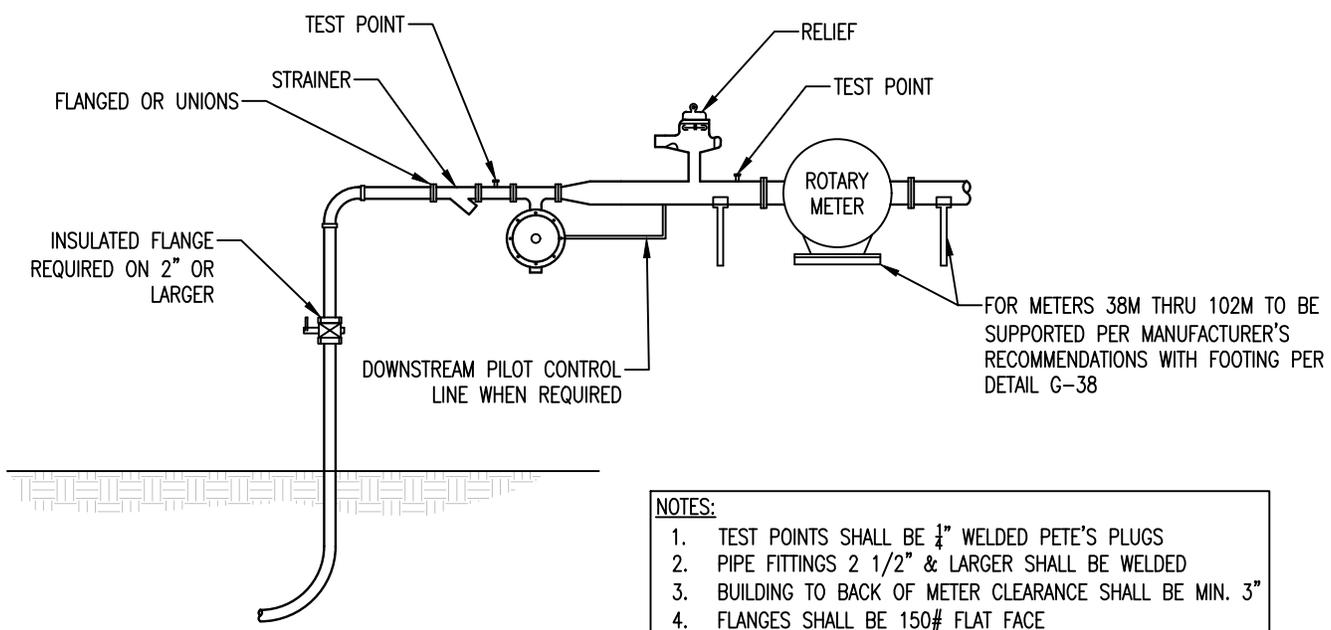


1. 1-1/2" x 1" REDUCING EL
2. 1-1/2" STRAINER W/BLOWDOWN
3. 1/4" WELD ON COUPLING & PETE'S PLUGS
4. B42R OR S202
5. 1.5M125 ROOTS METER
6. 1-1/2" UNIONS
7. 1-1/2" WELDED ANGLE
8. 1-1/2" x 1/4" U-CLAMPS
9. VENT W/RAIN CAP WHERE REQUIRED
10. RELIEF (IF NECESSARY)

| REGULATOR CAPACITY (CFH) |       |       |      |        |      |
|--------------------------|-------|-------|------|--------|------|
| P OUT                    | 7" WC |       |      | 2 PSI* |      |
| ORIFICE                  | 1/8"  | 3/16" | 1/4" | 3/16"  | 1/4" |
| P IN                     |       |       |      |        |      |
| 55                       | 1300  | -     | -    | 850    | 1450 |
| 35                       | 860   | 2280  | -    | 1560   | 1100 |
| 15                       | -     | 1080  | 1640 | -      | -    |
| 10                       | -     | -     | 1470 | -      | -    |

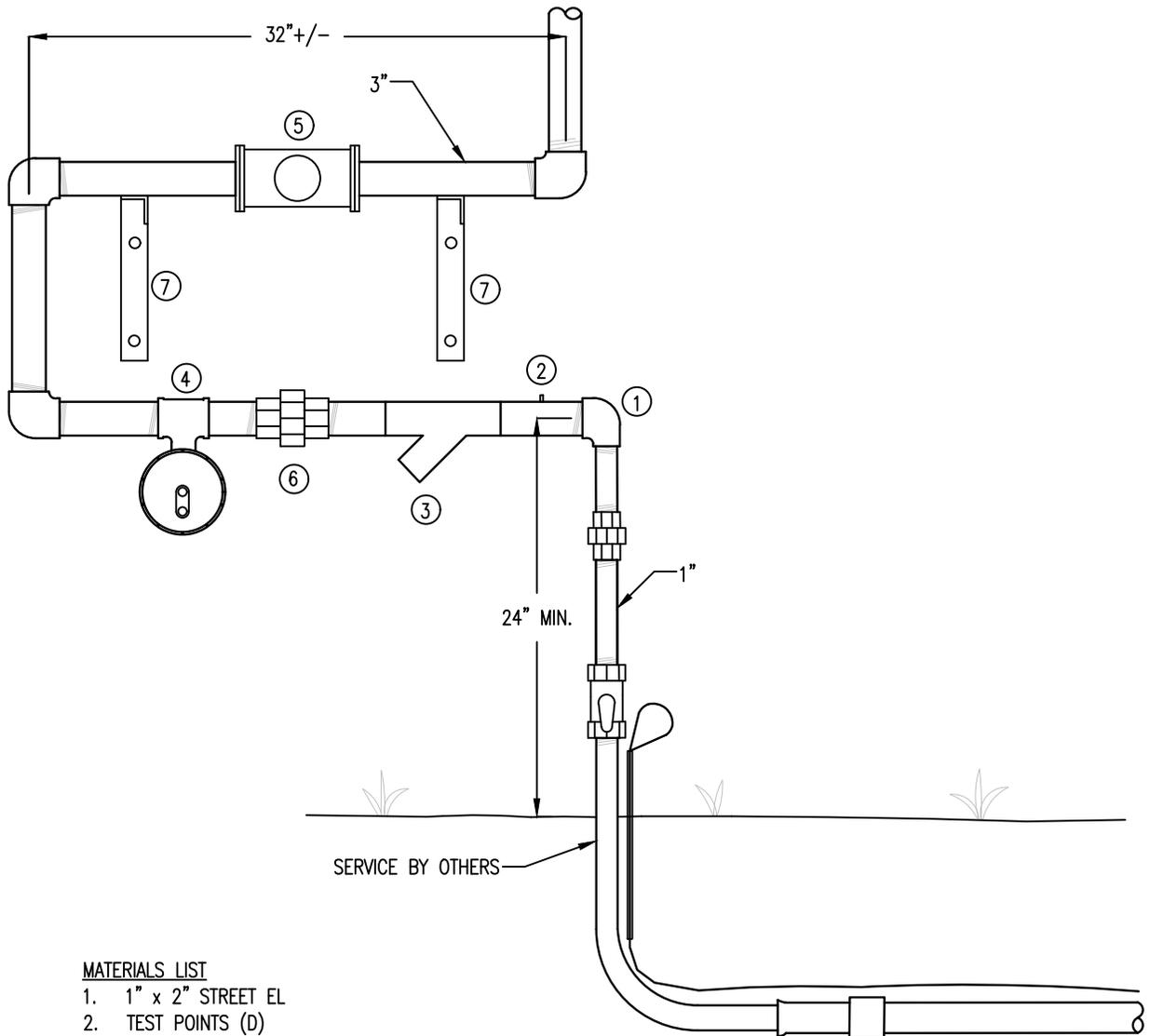
\*METER PRESSURE 1.83 PSI @ MAX. FLOW

**1.5M125 ROOTS METER & REGULATOR DETAIL**



- NOTES:**
1. TEST POINTS SHALL BE 1/4" WELDED PETE'S PLUGS
  2. PIPE FITTINGS 2 1/2" & LARGER SHALL BE WELDED
  3. BUILDING TO BACK OF METER CLEARANCE SHALL BE MIN. 3"
  4. FLANGES SHALL BE 150# FLAT FACE

**TYPICAL DETAIL  
3M125 ROOTS METER & LARGER**



**MATERIALS LIST**

1. 1" x 2" STREET EL
  2. TEST POINTS (D)
  3. 2" STRAINER (D)
  4. FISHER S202 - 2" - W/ 3/8" ORIFICE REGULATOR (D)
  5. 5M ROOTS METER - 3" FLANGE CONNECTION (D)
  6. 2" UNION
  7. ANGLE IRON BRACKETS (D)
- (D) INDICATES TO BE FURNISHED BY DEPARTMENT

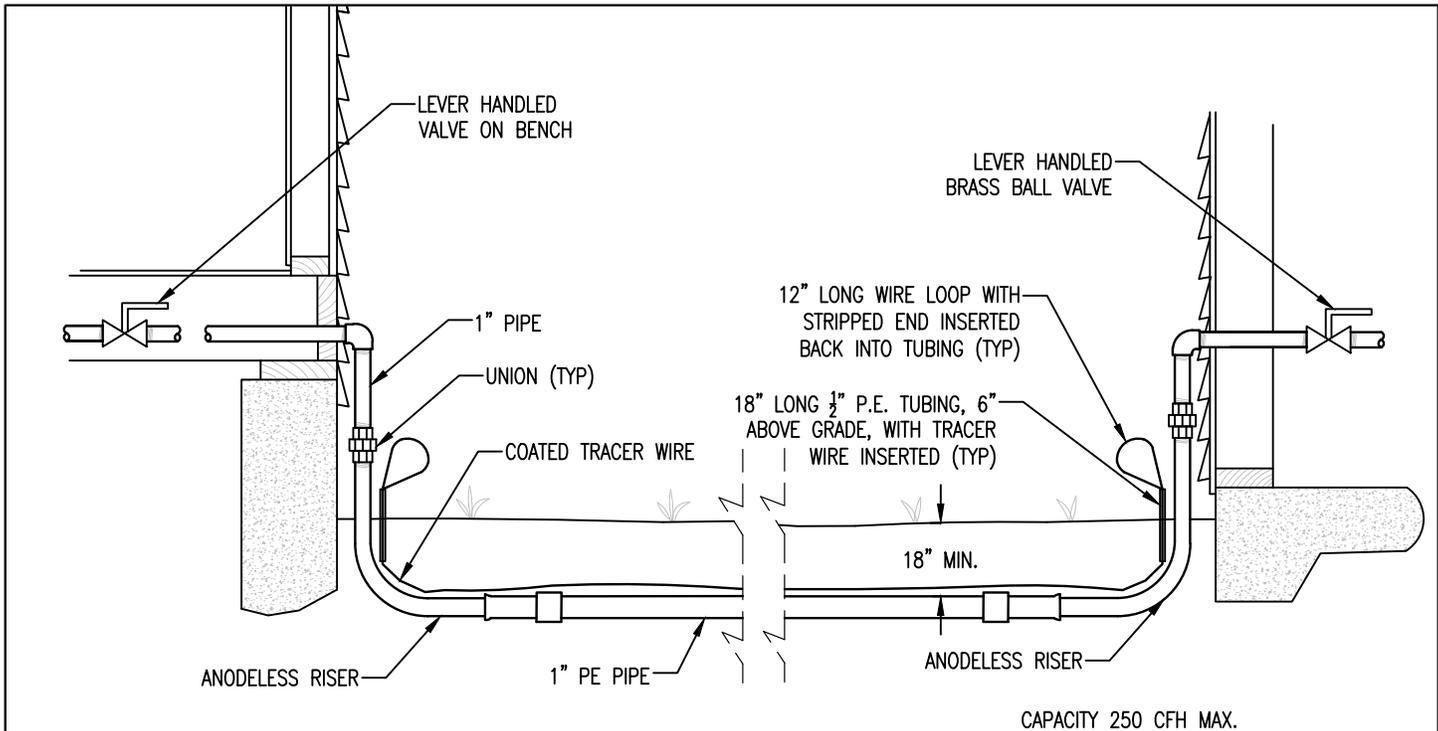
5M ROOTS COMPACT METER INSTALLATION

G-12B

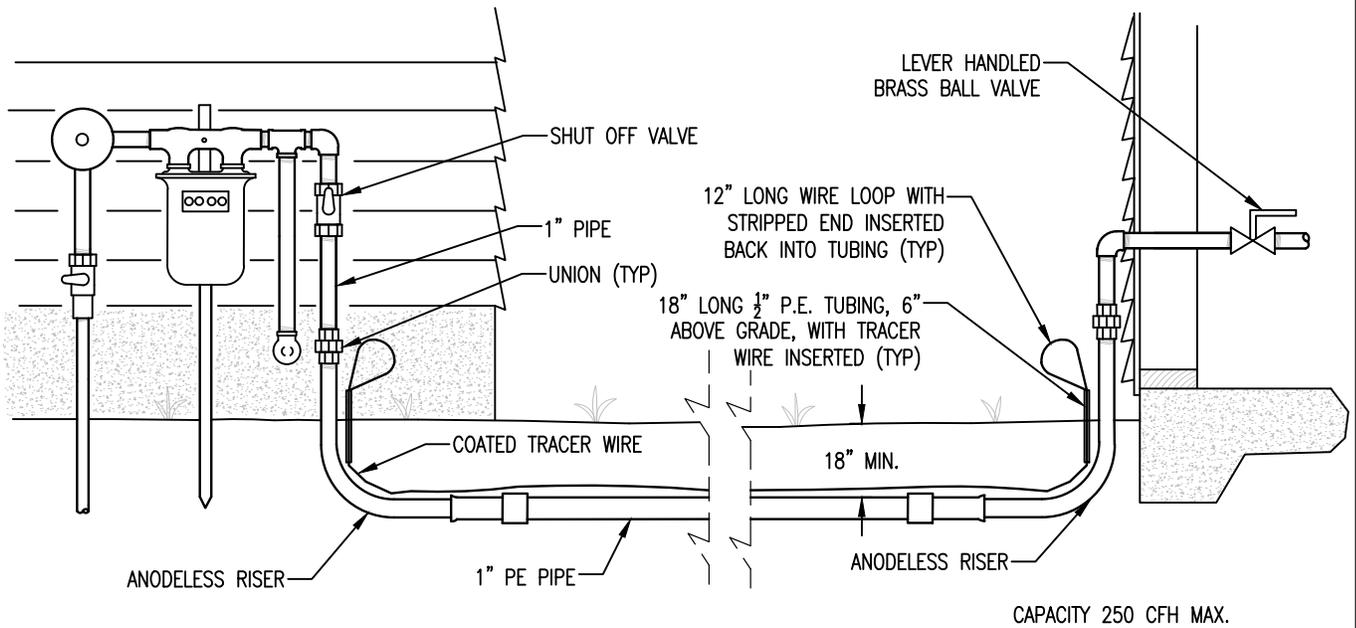
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CITY OF DULUTH STANDARD DETAIL  
DEPT. OF PUBLIC WORKS AND UTILITIES

NO SCALE



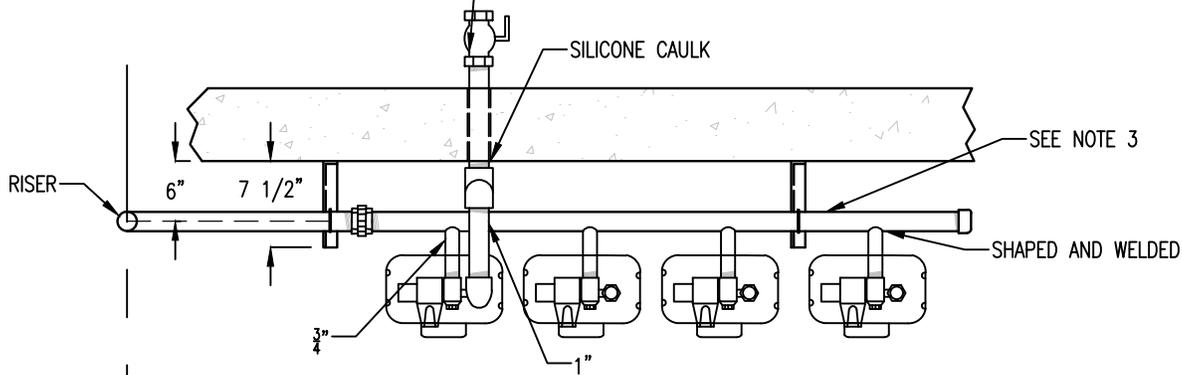
STANDARD TYPICAL GAS FUEL LINE TO OUT BUILDING



STANDARD NON-TYPICAL GAS FUEL LINE TO OUT BUILDING

|   |   |          |
|---|---|----------|
| UNDERGROUND GAS FUEL LINE PIPING – PAST METER |   | G-13     |
| REVISED/APPROVED 02/25/2026                   | CITY OF DULUTH STANDARD DETAIL<br>DEPT. OF PUBLIC WORKS AND UTILITIES | NO SCALE |

VALVE REQUIRED WHEN SERVING ADJACENT UNIT ONLY. UNITS WHICH ARE REMOTE FROM METER WILL HAVE VALVE CUT IN AT THE UNIT SERVED.

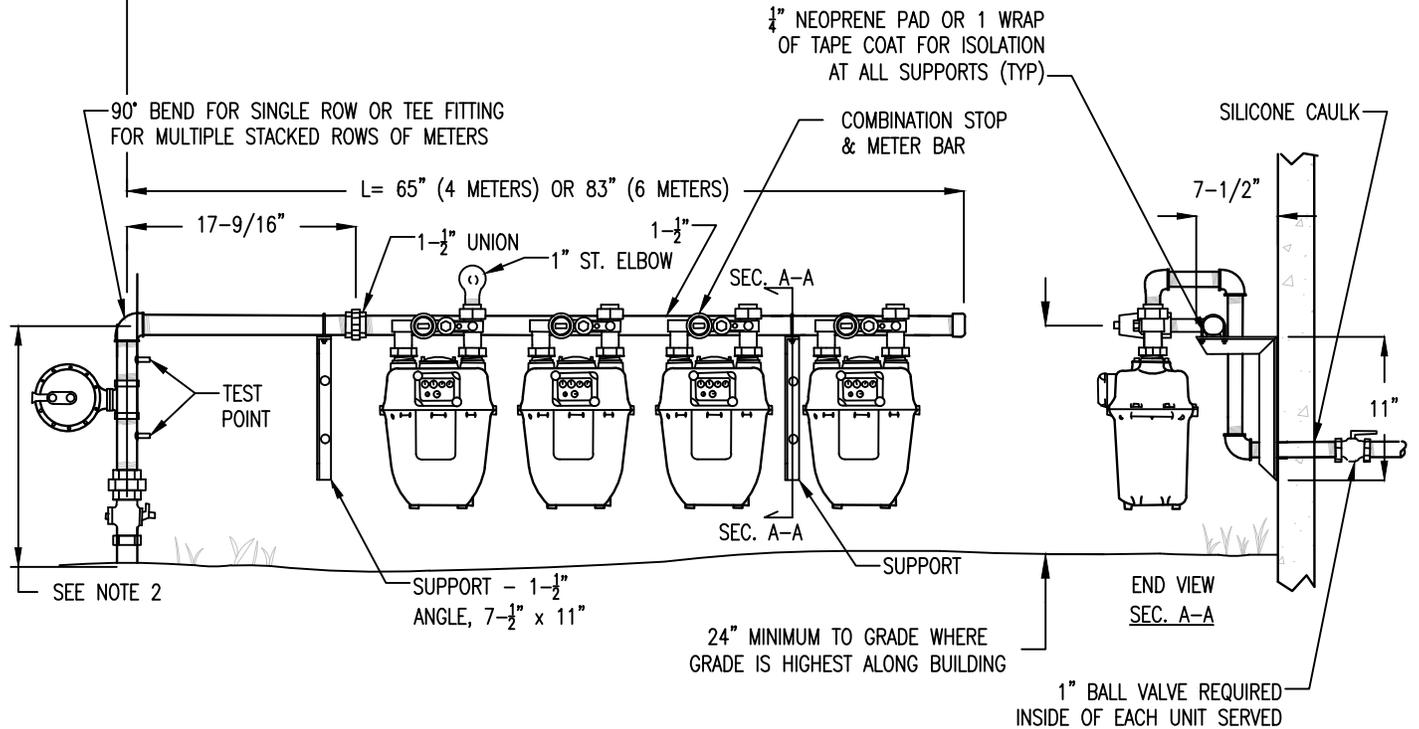


NOTES:

1. 6 METER SET REQUIRES 4 ANGLE SUPPORTS.
2. HEIGHT IS DETERMINED BY ANY METER NOT BEING CLOSER THAN 6" OFF GRADE. MANIFOLD SHALL BE HORIZONTAL.
3. 1-1/2" MANIFOLD BY DEPARTMENT OR MANUFACTURER.
4. DEPARTMENT TO ATTACH BRASS TAG WITH NUMBER OF UNITS SERVICED TO EACH METER BAR.

TOP VIEW

3 OR MORE RESIDENTIAL METERS



FRONT VIEW

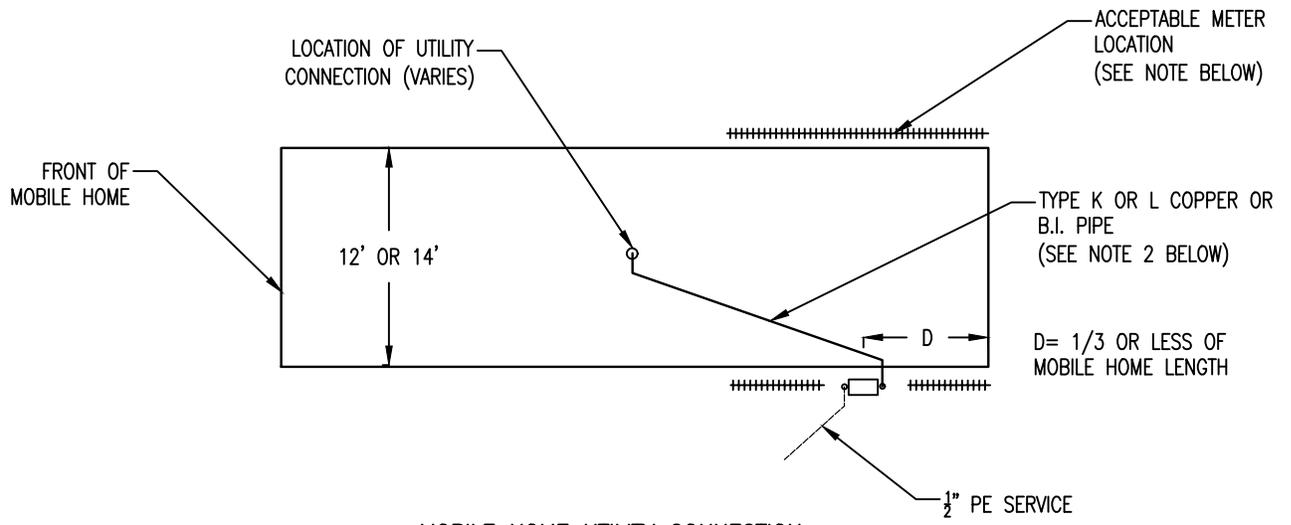
TYPICAL MULTI-METER INSTALLATION

G-14A

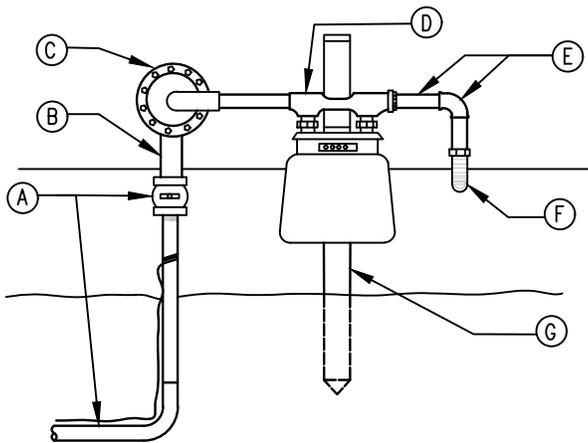
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CITY OF DULUTH STANDARD DETAIL  
DEPT. OF PUBLIC WORKS AND UTILITIES

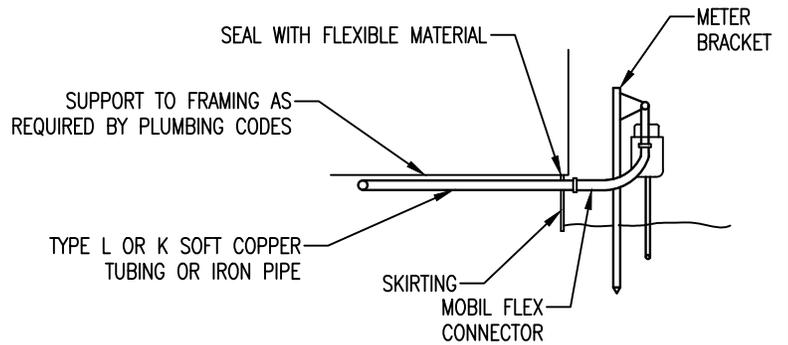
NO SCALE



**MOBILE HOME UTILITY CONNECTION**



**METER SET - FRONT VIEW N.T.S.**



**MOBILE HOME ENTRANCE - SIDE VIEW N.T.S.**

- A. RISER & METER STOP (TO BE INSTALLED BY OTHERS)
- B. 3/4" NIPPLE
- C. REGULATOR - 252 (TO BE FURNISHED BY DEPARTMENT)
- D. METER BAR (TO BE FURNISHED BY DEPARTMENT)
- E. 1" NIPPLE W/ 1" X 3/4" REDUCING ELBOW
- F. MOBILE FLEX CONNECTOR
- G. METER BRACKET (TO BE FURNISHED BY DEPARTMENT)

**SPECIFICATIONS:**

1. METER LOCATION SHALL BE ALONG THE SIDE AND WITHIN THE REAR 1/3 OF THE TRAILER.
2. ALL HEATING ACCOUNTS TO HAVE NOT LESS THAN 3/4" COPPER LINE WITH FLARED FITTINGS OR 3/4" B.I. PIPE THREADED FROM METER TO POINT WHERE EXISTING LINE ENTERS FLOOR FROM UNDERNEATH. NON-HEATING ACCOUNTS TO HAVE NOT LESS THAN 5/8" COPPER OR 1/2" B.I. PIPE BETWEEN ABOVE MENTIONED POINTS.
3. ANY EXISTING PIPING WHICH MEETS THE ABOVE REQUIREMENTS MAY BE UTILIZED IN MAKING THE CONNECTION.
4. EXISTING AND NEW PIPING DOWNSTREAM FROM FLEXIBLE CONNECTOR SHALL BE PRESSURE TESTED AT 10 PSI BEFORE SETTING METER.

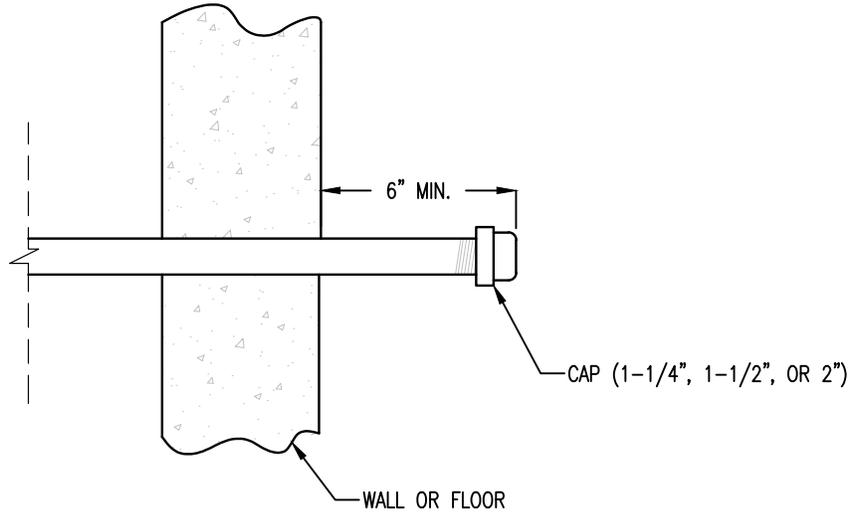
**MOBILE HOME GAS METER CONNECTION**

G-15

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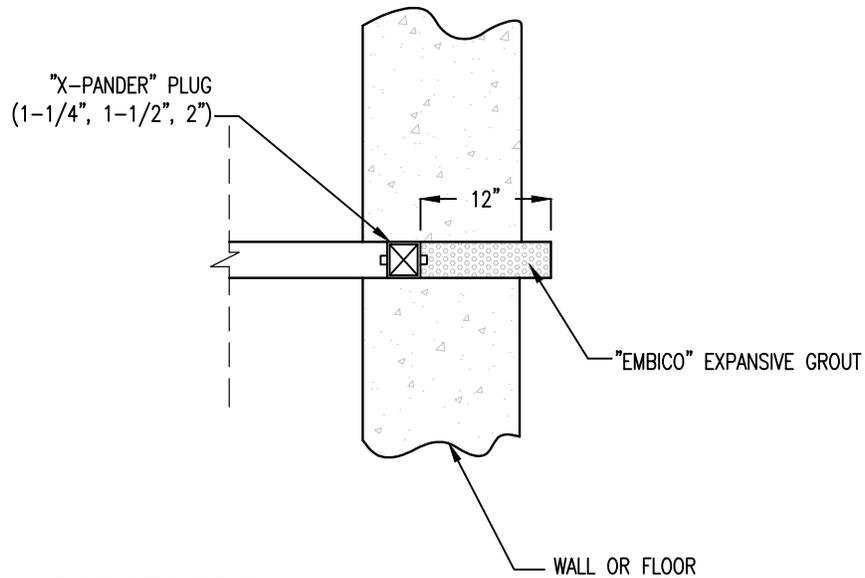
CITY OF DULUTH STANDARD DETAIL  
DEPT. OF PUBLIC WORKS AND UTILITIES

NO SCALE



NOTE: CAP TO BE INSTALLED AT LAST EXISTING  
 THREAD NEAREST WALL OR FLOOR EXCEPT WHEN  
 REQUESTED SHORTER BY OWNER.

STANDARD METHOD



NOTES:

1. DEPARTMENT WILL CUT PIPE OFF CLOSE AS POSSIBLE AND INSTALL EXPANDING RUBBER PLUG AND EXPANSIVE GROUT ONLY UPON SPECIFIC REQUEST BY OWNER. (DEPT POLICY)
2. STREET MAIN MUST BE INACTIVE

SPECIAL METHOD

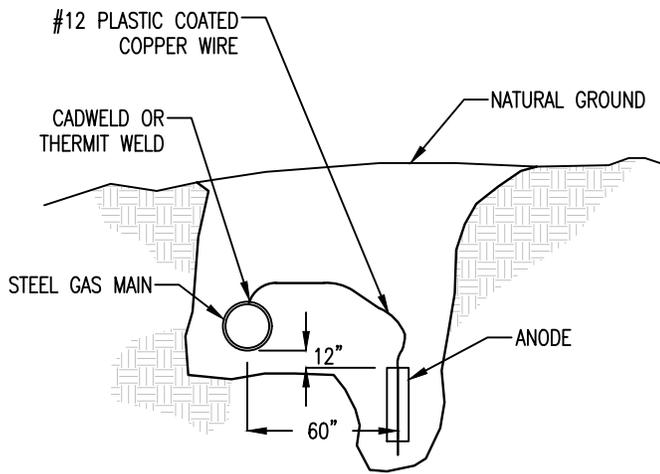
SEALING UNUSED LP GAS SERVICES

G-16

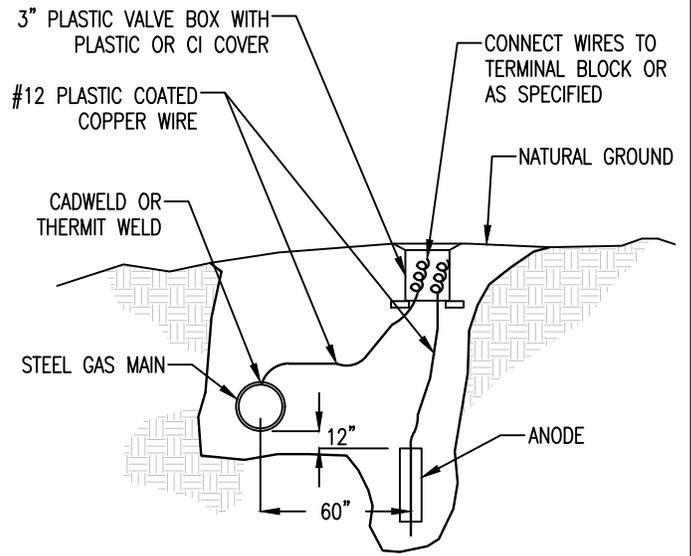
REVISED/APPROVED 02/01/2013

CITY OF DULUTH STANDARD DETAIL  
 DEPT. OF PUBLIC WORKS AND UTILITIES

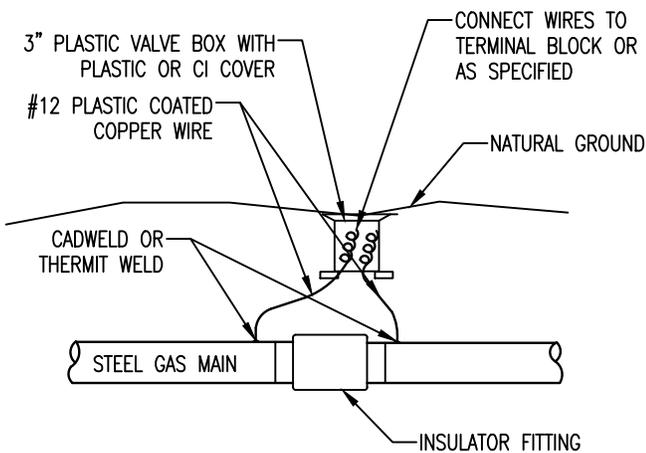
NO SCALE



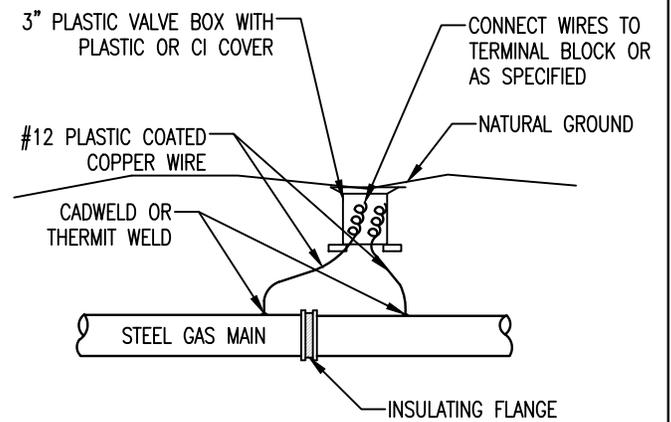
ANODE WITHOUT TEST LEADS



ANODE WITH TEST LEADS



TYPICAL INSULATOR WITH TEST LEADS



TYPICAL INSULATING FLANGE WITH TEST LEADS

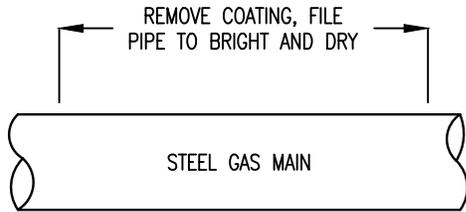
CATHODIC PROTECTION

G-17

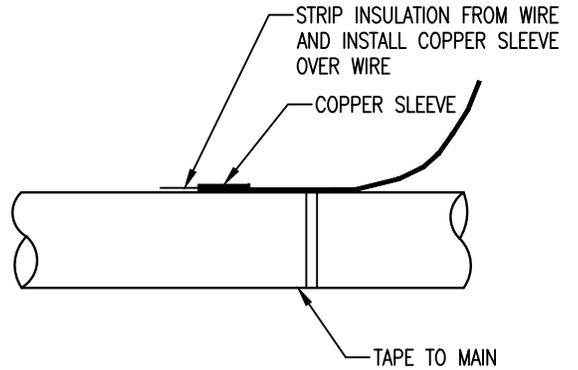
REVISED/APPROVED 02/01/2013

CITY OF DULUTH STANDARD DETAIL  
DEPT. OF PUBLIC WORKS AND UTILITIES

NO SCALE



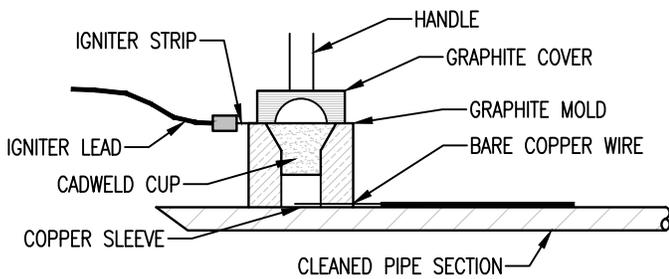
STEP 1



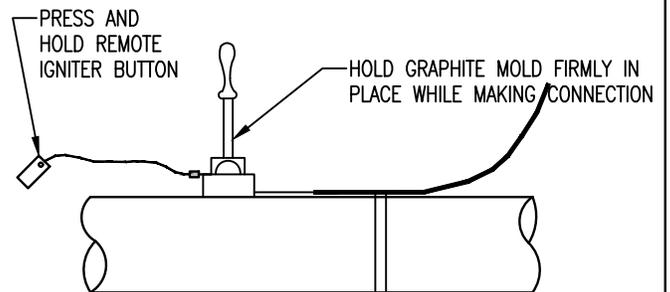
STEP 2

PROCEDURES

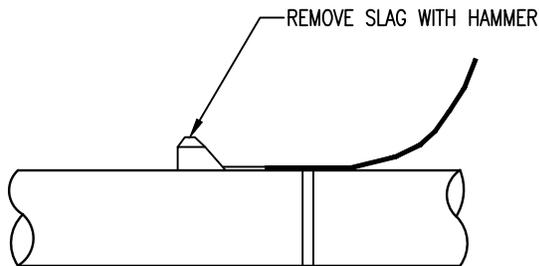
1. PREPARE GRAPHITE MOLD AS SHOWN IN DETAIL.
    - A. PLACE CADWELD PLUS CUP
    - B. CONNECT IGNITION LEADS TO CUP
    - C. PLACE GRAPHITE COVER
  2. PLACE GRAPHITE MOLD ON PIPE
- MAXIMUM SIZE CHARGE TO BE USED SHALL BE CA-15 PLUS F33



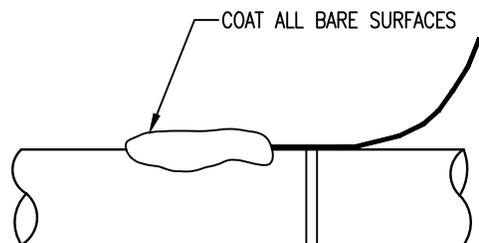
STEP 3



STEP 4



STEP 5



STEP 6

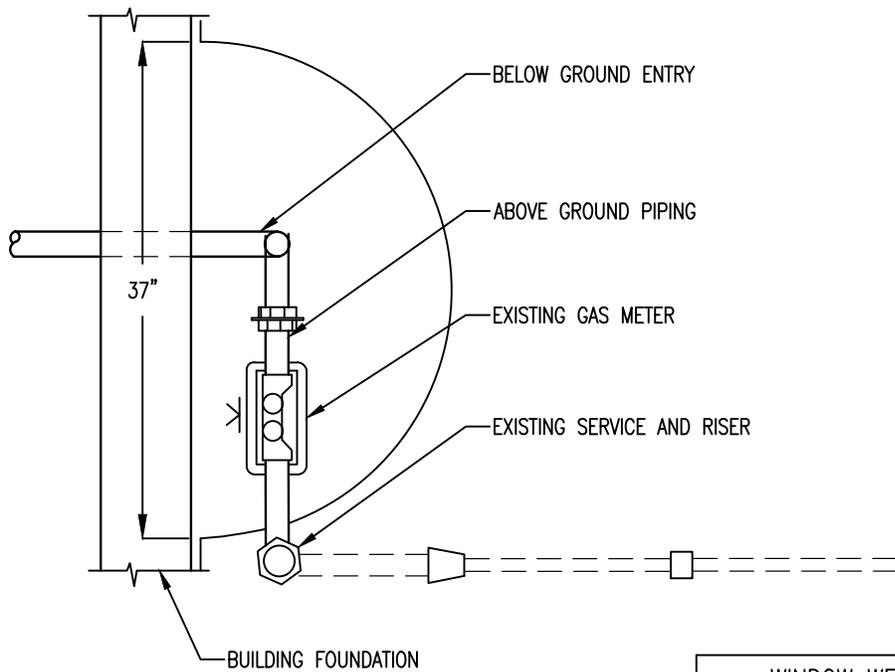
TYPICAL METHOD OF BRAZED CONNECTION TO PIPE

G-18

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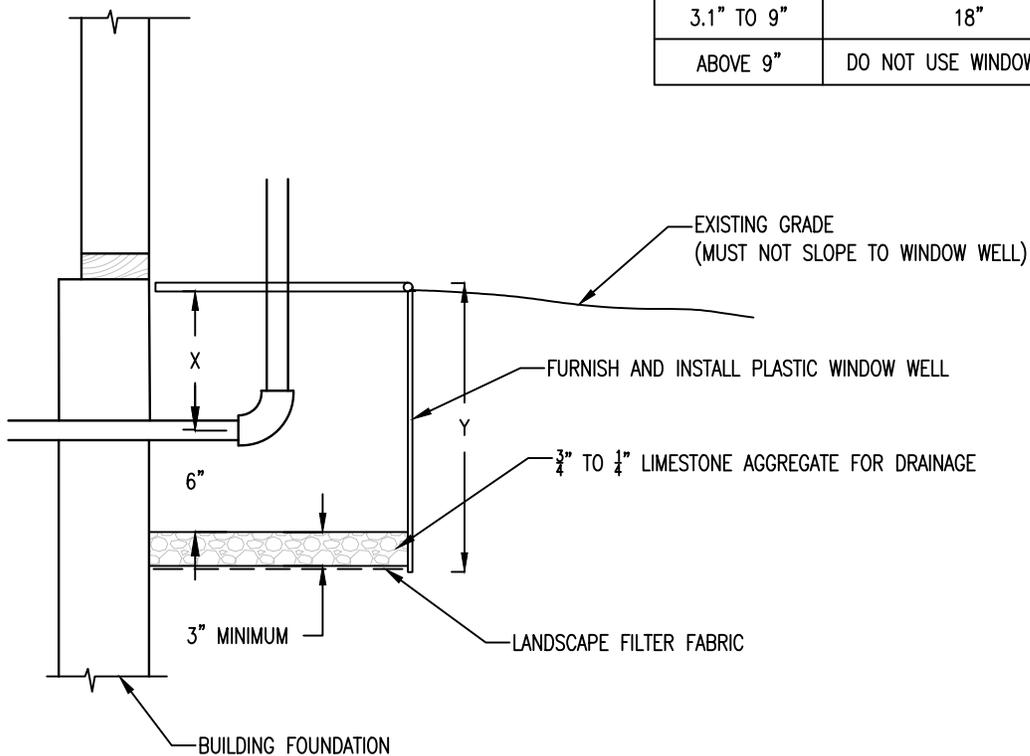
CITY OF DULUTH STANDARD DETAIL  
DEPT. OF PUBLIC WORKS AND UTILITIES

NO SCALE



PLAN VIEW

| WINDOW WELL SIZING CHART |                        |
|--------------------------|------------------------|
| IF X IS...               | Y=                     |
| 3" OR LESS               | 12"                    |
| 3.1" TO 9"               | 18"                    |
| ABOVE 9"                 | DO NOT USE WINDOW WELL |



SIDE VIEW

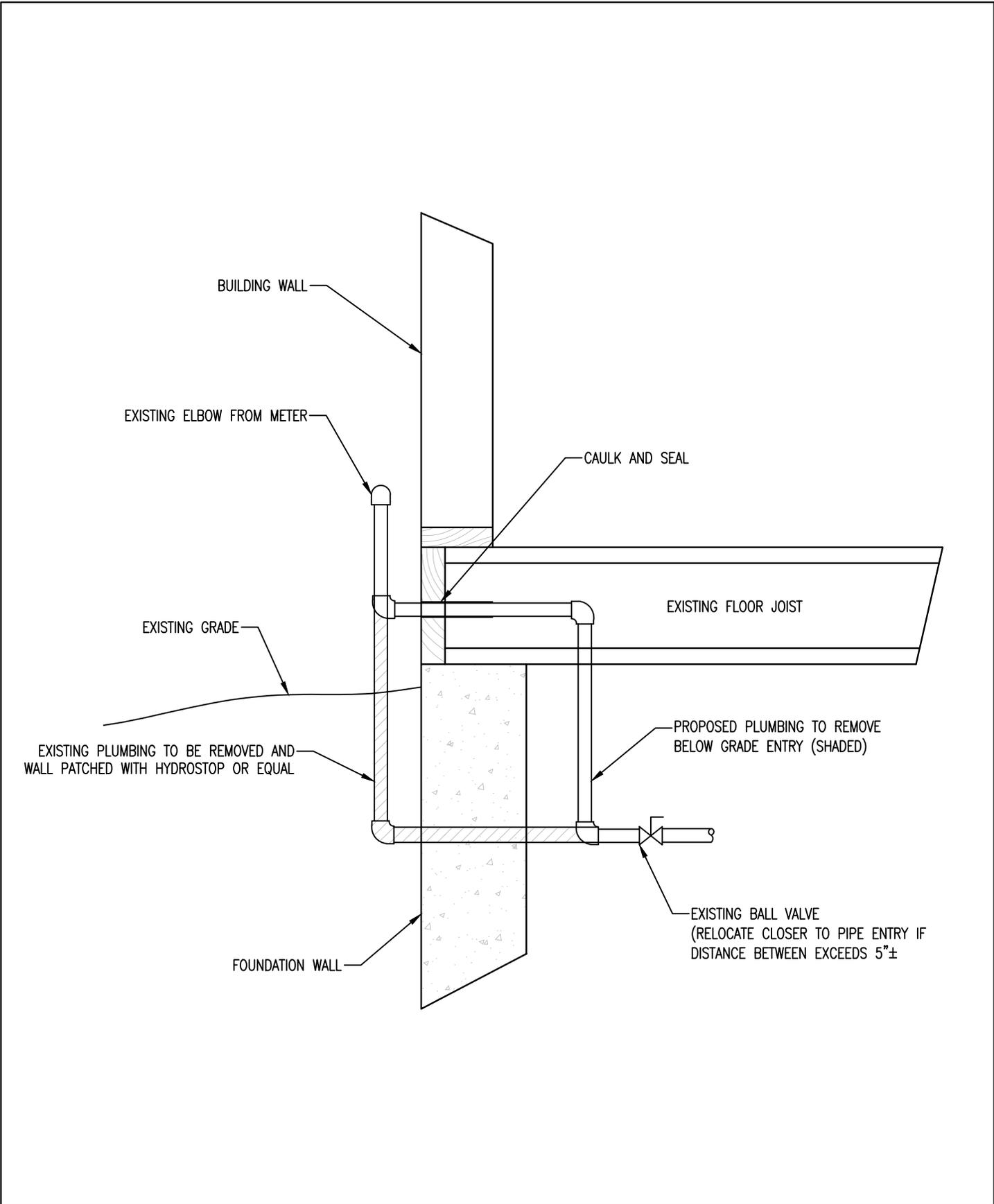
TYPICAL WELL FOR BELOW GRADE GAS PIPE ENTRY

G-23

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CITY OF DULUTH STANDARD DETAIL  
DEPT. OF PUBLIC WORKS AND UTILITIES

NO SCALE



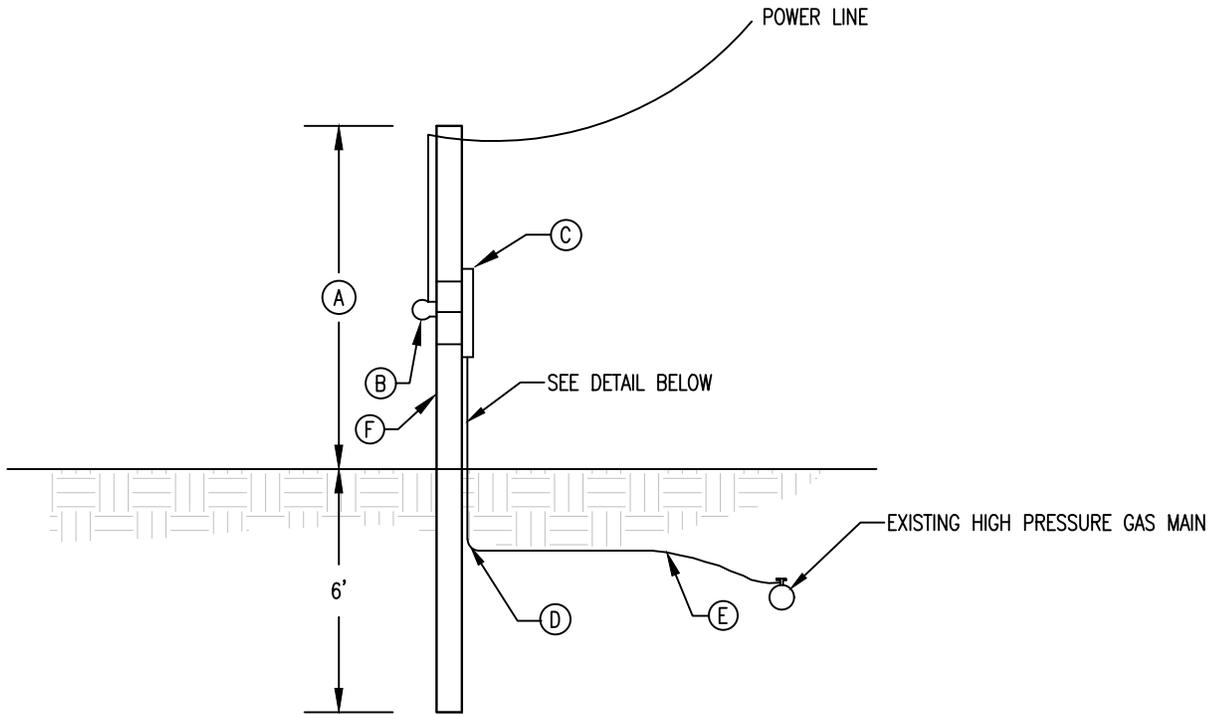
BELOW GRADE GAS PIPE ENTRY REVISION

G-24

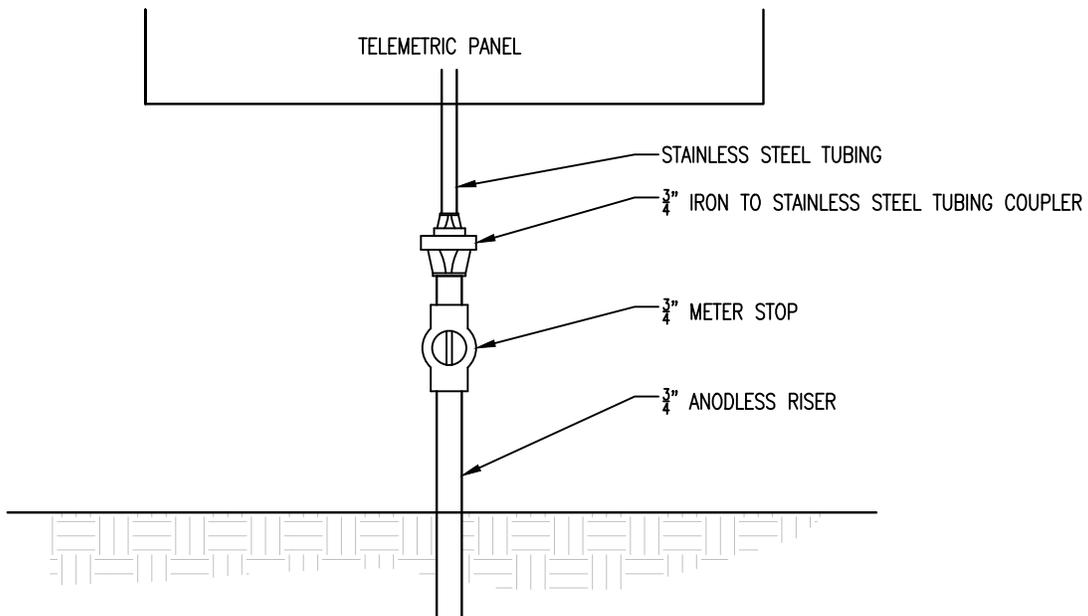
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CITY OF DULUTH STANDARD DETAIL  
 DEPT. OF PUBLIC WORKS AND UTILITIES

NO SCALE



- A. 22' MIN. FOR STREET X-ING OR 18' MINIMUM OTHERWISE
- B. ELECTRIC METER
- C. TELEMETRIC PANEL (6' MAXIMUM TO TOP)
- D. 3/4" ANODELESS RISER
- E. 1/2" C.T.S. PE H.P. GAS SERVICE
- F. 6" STEEL POLE FOR STREET CROSSING, 4" STEEL POLE FOR OTHERS



TELEMETRIC GAS PRESSURE STATION

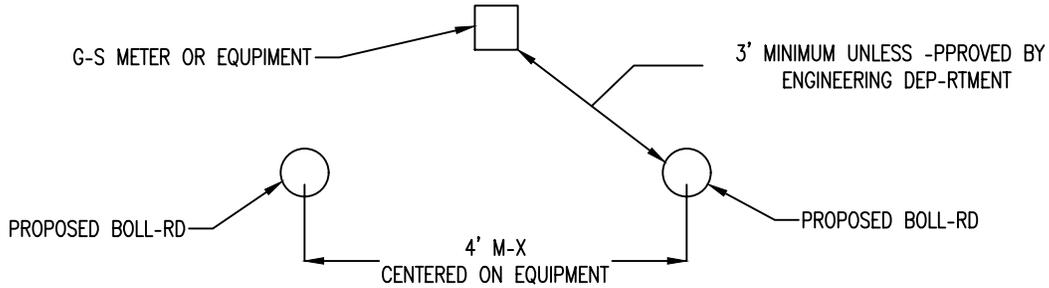
G-26

REVISED/APPROVED 02/25/2026

CITY OF DULUTH STANDARD DETAIL  
DEPT. OF PUBLIC WORKS AND UTILITIES

NO SCALE

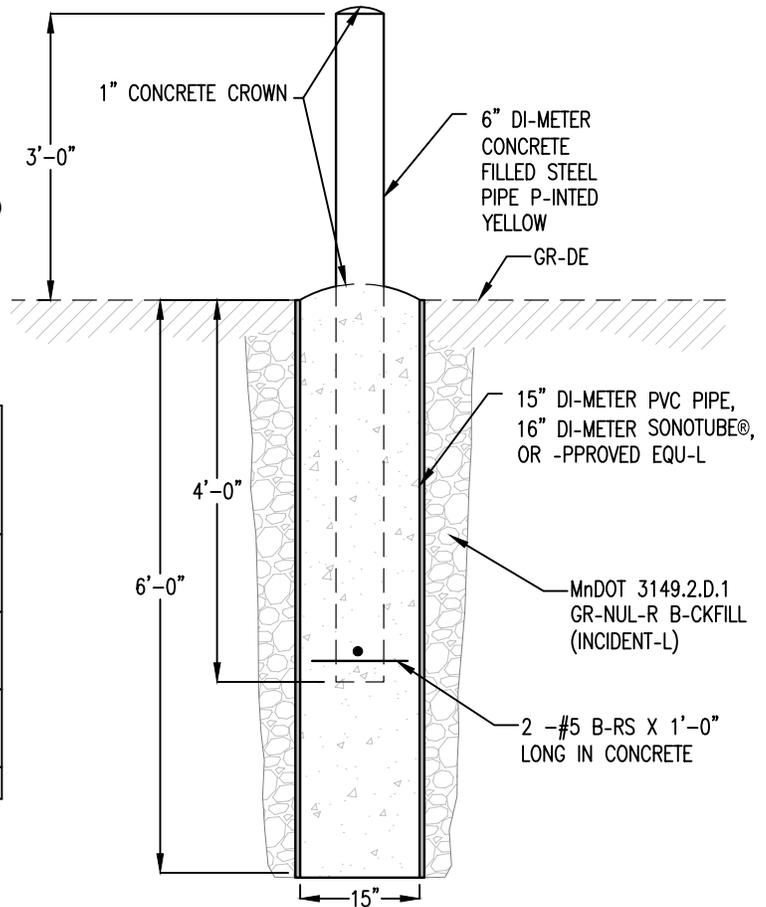
BUILDING



**NOTES**

1. MULTIPLE BOLL-RDS SH-LL BE SP-CED -T 4' ON CENTER
2. COMP-CT B-CKFILL TO 95% M-XIMUM DENSITY.
3. BOLL-RD SH-LL BE FINISHED WITH ONE OF THE FOLLOWING METHODS:
  - COVERED WITH - HDPE PL-STIC BOLL-RD SLEEVE DESIGNED TO FIT OVER - 6" PIPE BOLL-RD. THE SLEEVE SH-LL H- E - SMOOTH FINISH, DOME TOP, -ND BE YELLOW IN COLOR. -N -DHESIVE SE-L-NT SH-LL BE USED TO -FFIX THE SLEEVE TO THE BOLL-RD.
  - B. P-INTED TO THE FOLLOWING SPECIFIC-TIONS

|                     |  |
|---------------------|--|
| SURF-CE PREP-R-TION | BL-ST TO THE EXTENT OF -N SSPC-SP6 COMMECI-L-GR-DE LEVEL OF CLE-NLNESS -ND PRIME BEFORE -NY RUST BLOOM REFORMS |
| PRIMER              | -PPLY ONE EVEN CO-T OF TNE MEC SERIES 69-COLOR PRIMER TO - DFT OF 5.0 MILS                                     |
| FIELD FINISH        | -PPLY ONE EVEN CO-T OF TNE MEC SERIES 69-COLOR TO - DFT OF 5.0 MILS  |
| FIN-L FINISH        | -PPLY ONE CO-T TNE MEC SERIES 73-COLOR TO - DFT OF 2.0-2.5 MILS OVER THE FIELD FINISH                          |
| COLORS              | BOLL-RDS: S-FETY YELLOW  |



BOLLARD DETAIL

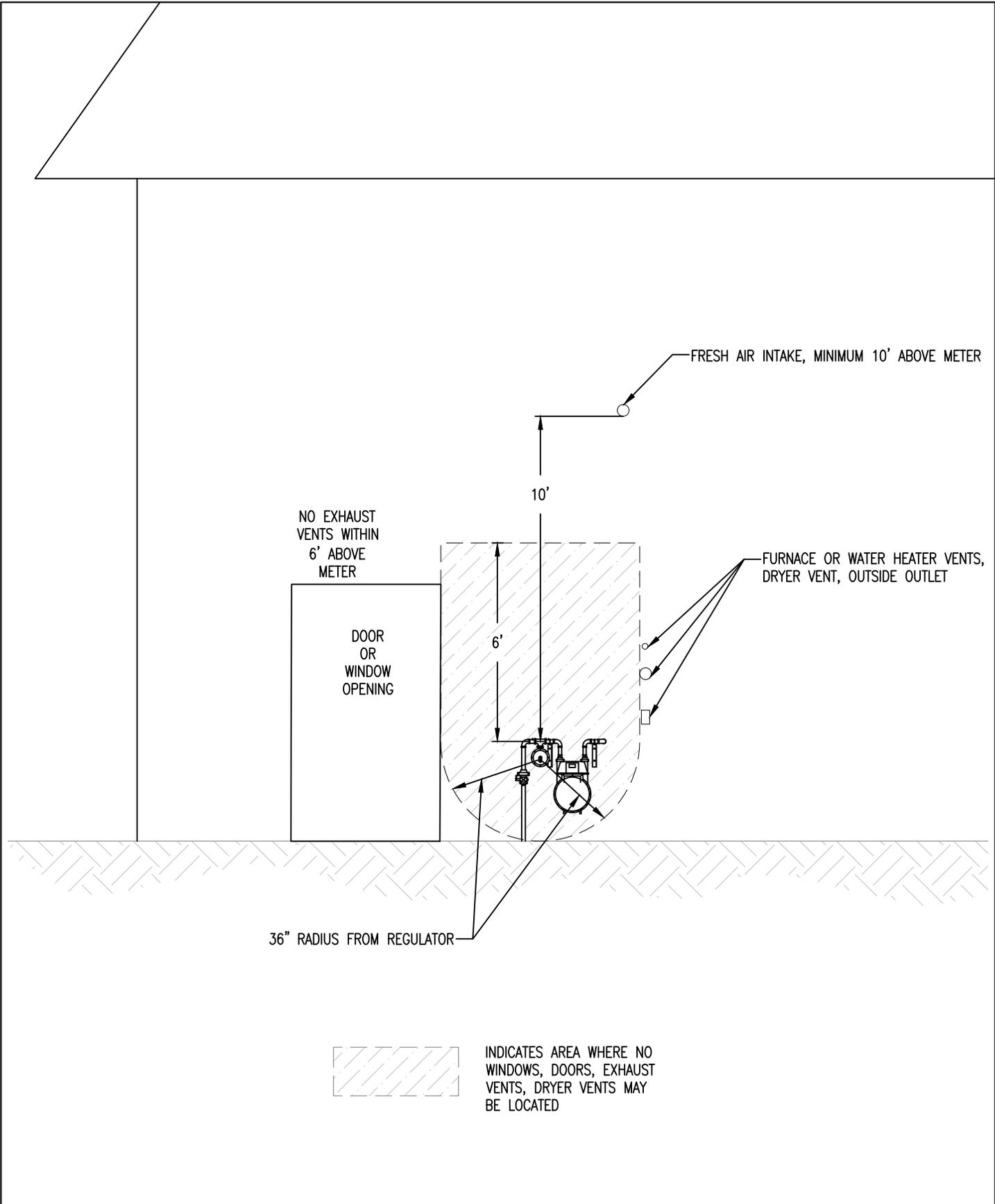
G-33

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CITY OF DULUTH STAND-RD DETAIL  
DEPT. OF PUBLIC WORKS AND UTILITIES

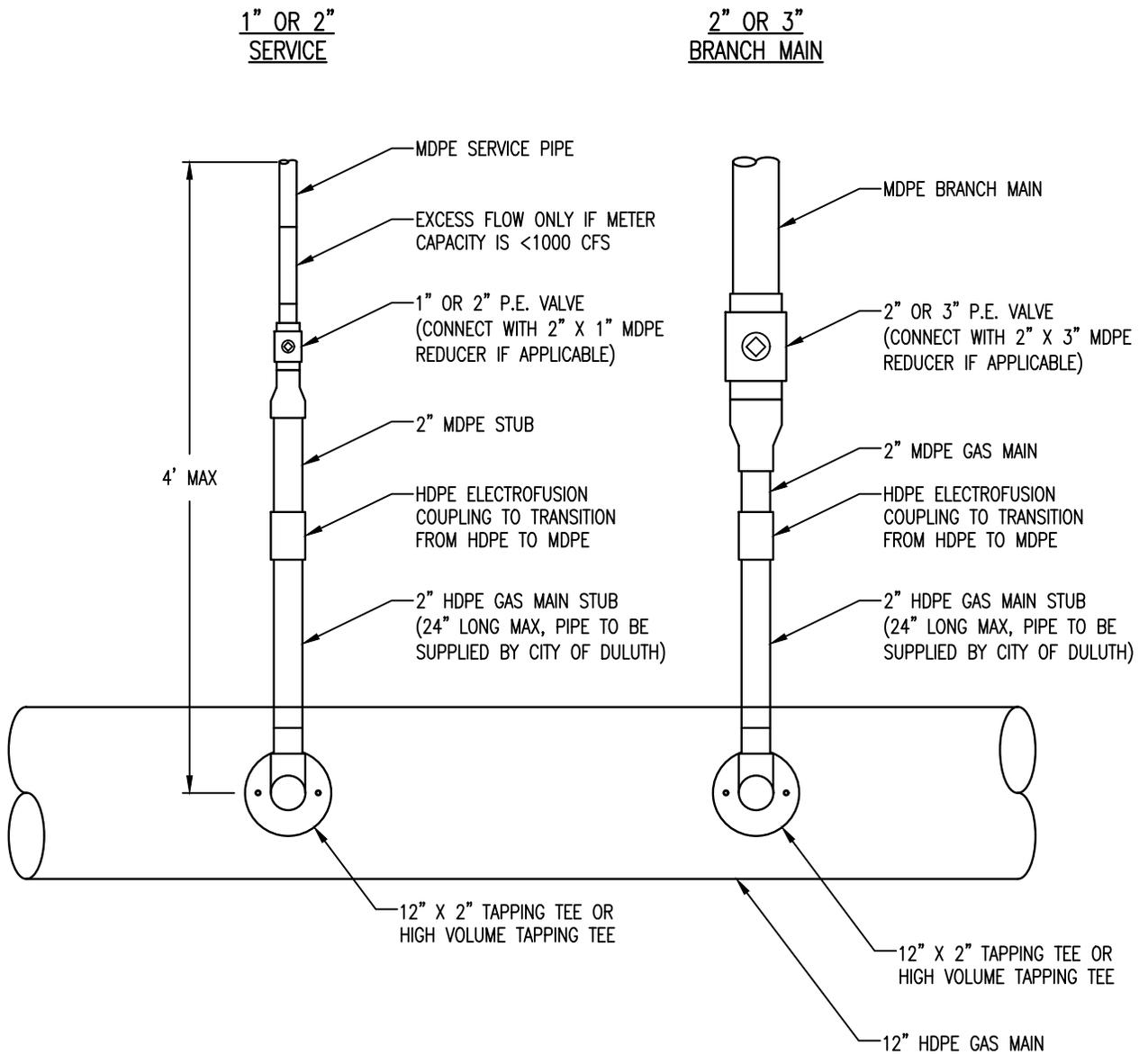
NO SCALE





INDICATES AREA WHERE NO  
WINDOWS, DOORS, EXHAUST  
VENTS, DRYER VENTS MAY  
BE LOCATED

|                             |   |          |
|-----------------------------|---|----------|
| METER LOCATION              |   | G-35     |
| REVISED/APPROVED 02/25/2026 | CITY OF DULUTH STANDARD DETAIL<br>DEPT. OF PUBLIC WORKS AND UTILITIES | NO SCALE |



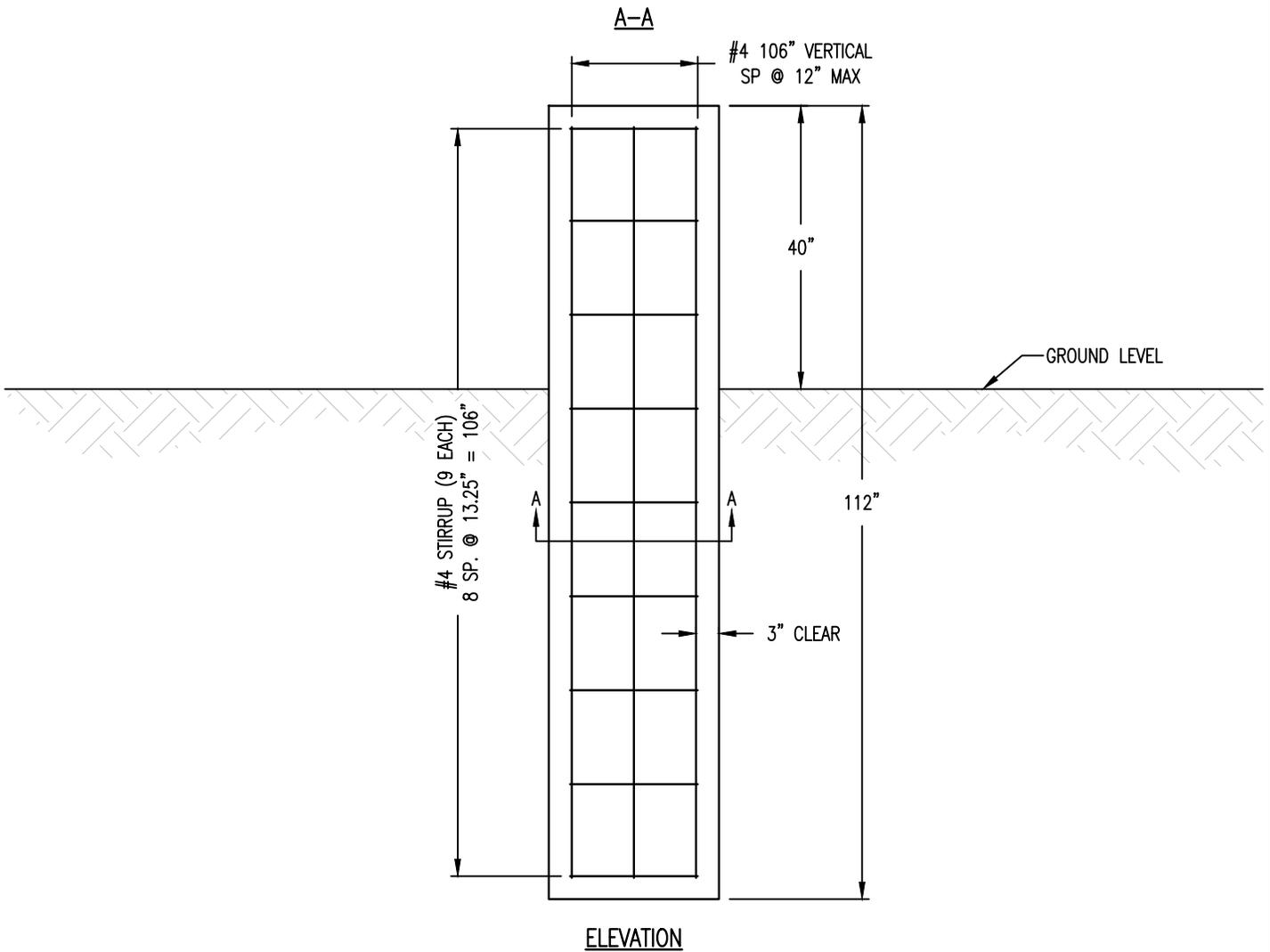
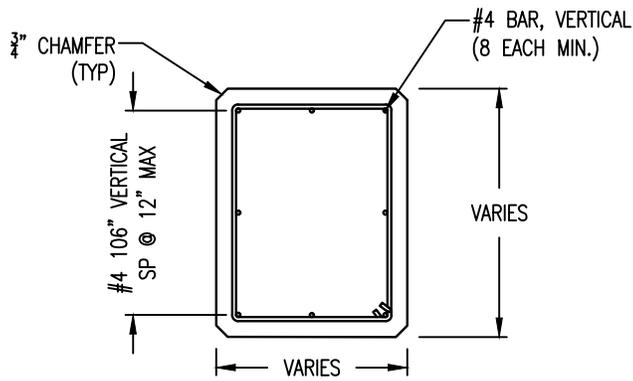
1", 2", OR 3" CONNECTION FOR HDPE GAS MAINS

G-37

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DEPT. OF PUBLIC WORKS AND UTILITIES

NO SCALE



ROTARY METER GAS BASE

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DEPT. OF PUBLIC WORKS AND UTILITIES

NO SCALE