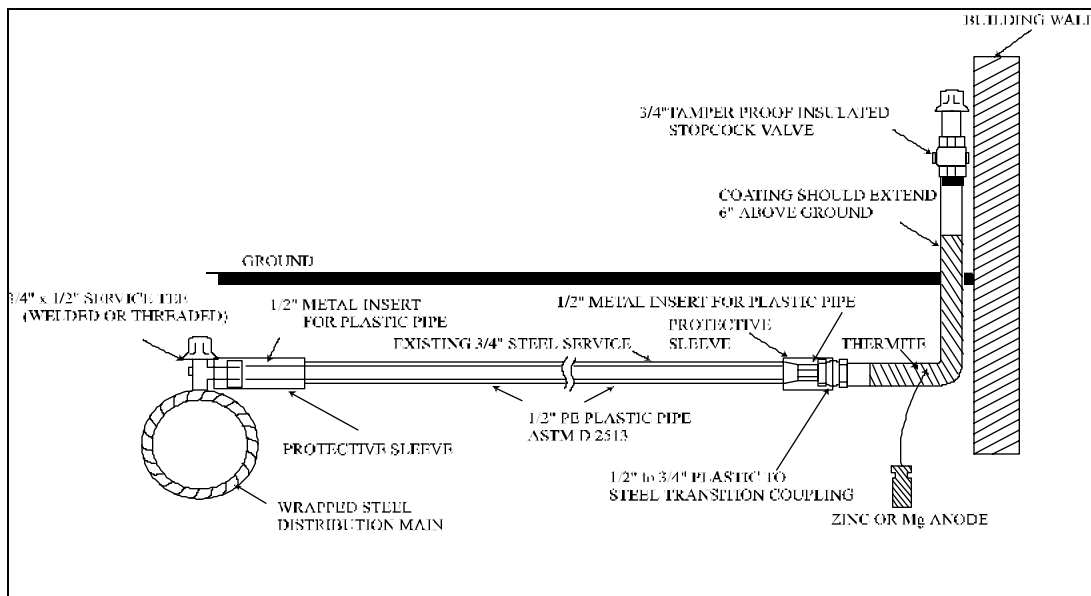


COMMON CONSTRUCTION PRACTICES

The following (FIGURES VI-16 AND VI-17) illustrate a steel to plastic pipe connection using a mechanical coupling. There are other sizes of connections. Refer to specific manufacturer's instructions for the proper couplings and coupling procedures.

FIGURE VI-16

Below is an example of a 1/2" plastic pipe inserted into a 3/4" existing service line (for illustration purposes only).



Elevation

ALTERNATE SERVICE CONNECTION

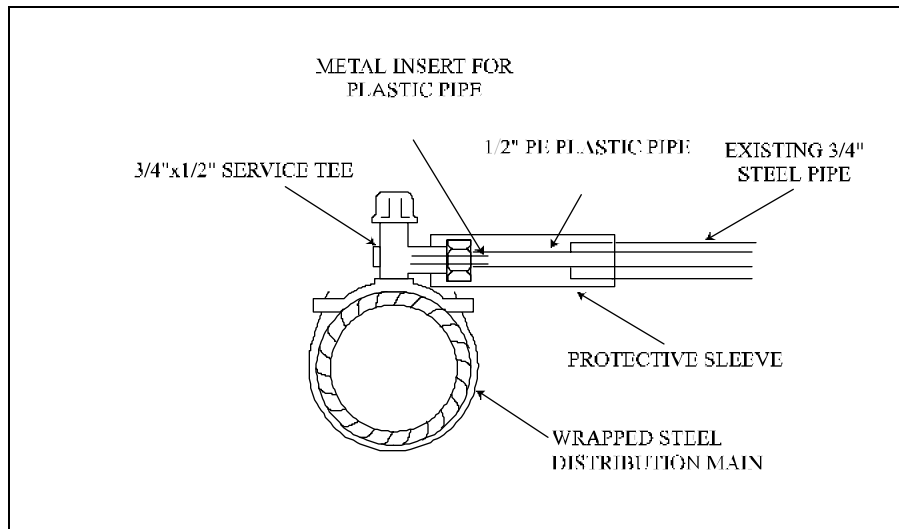
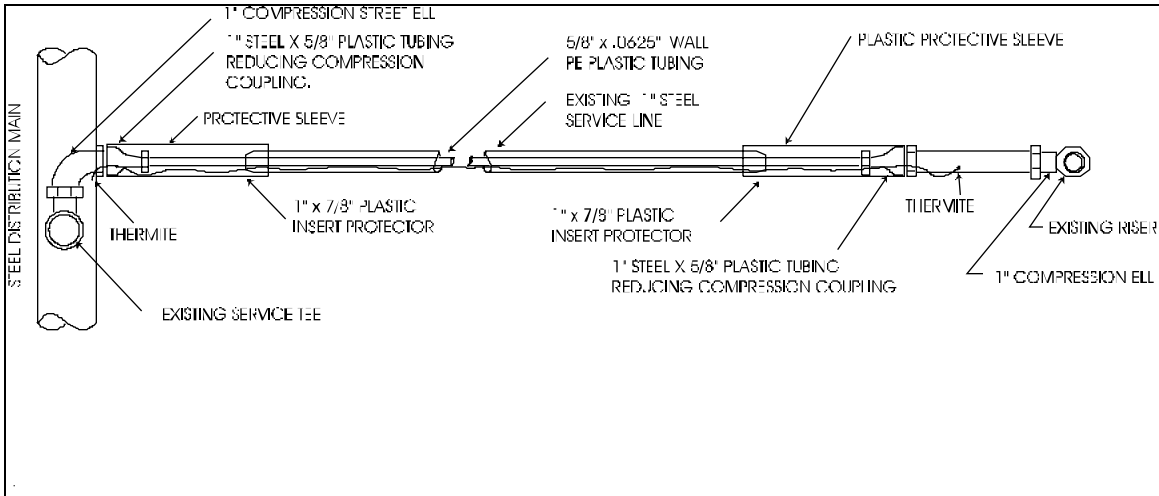
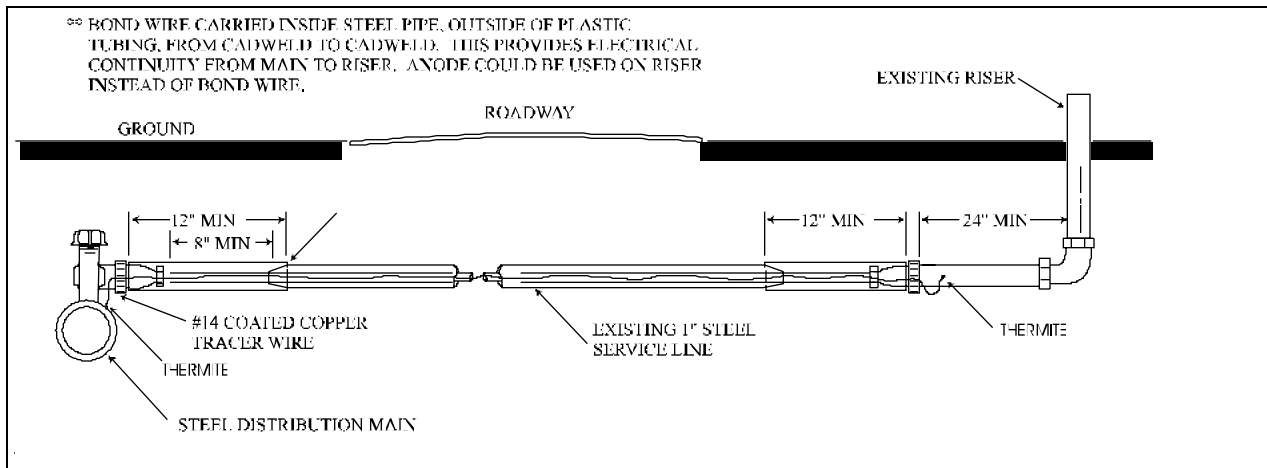


FIGURE VI-17

Below is an example of a 5/8" PE plastic tubing inserted into a existing 1" metallic line (for illustration purposes only).



Plan



Elevation

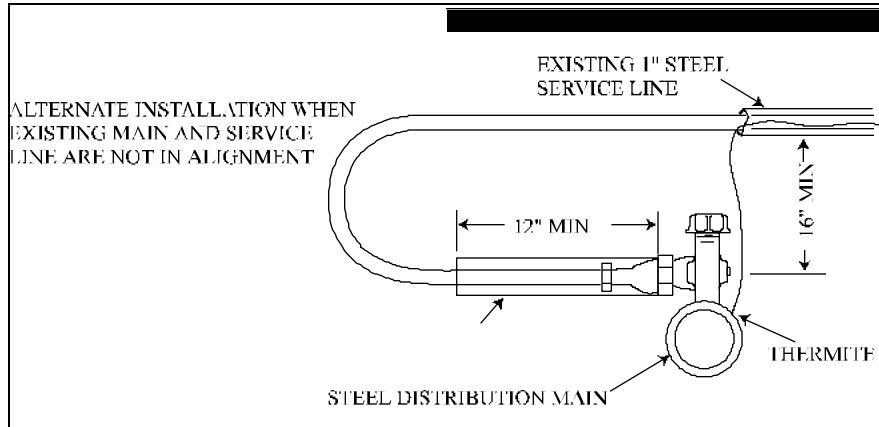


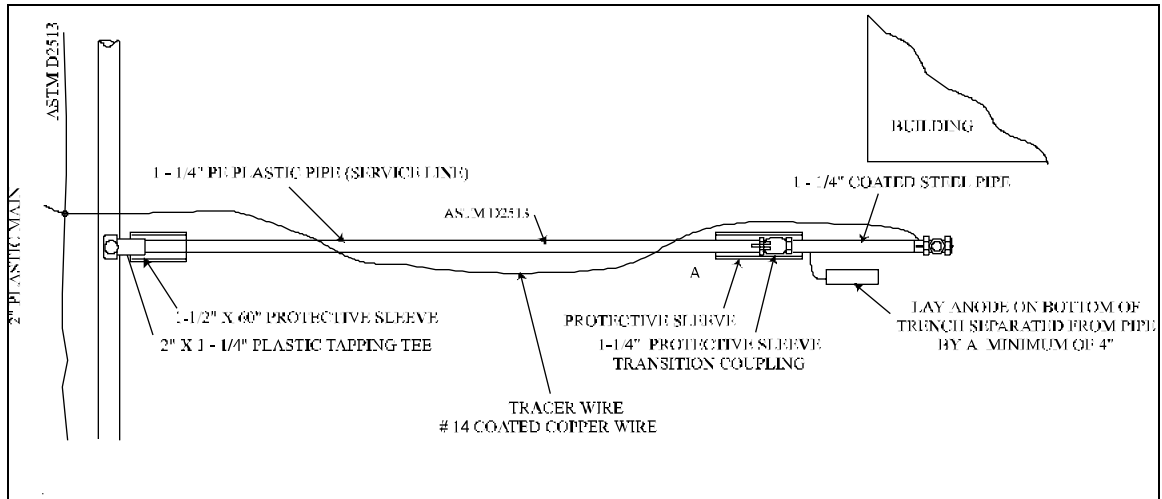
FIGURE VI-18

Below is an example of a ½" plastic pipe inserted into an electrofusion coupling which is electrofused onto a 2" electrofusion saddle fitting.

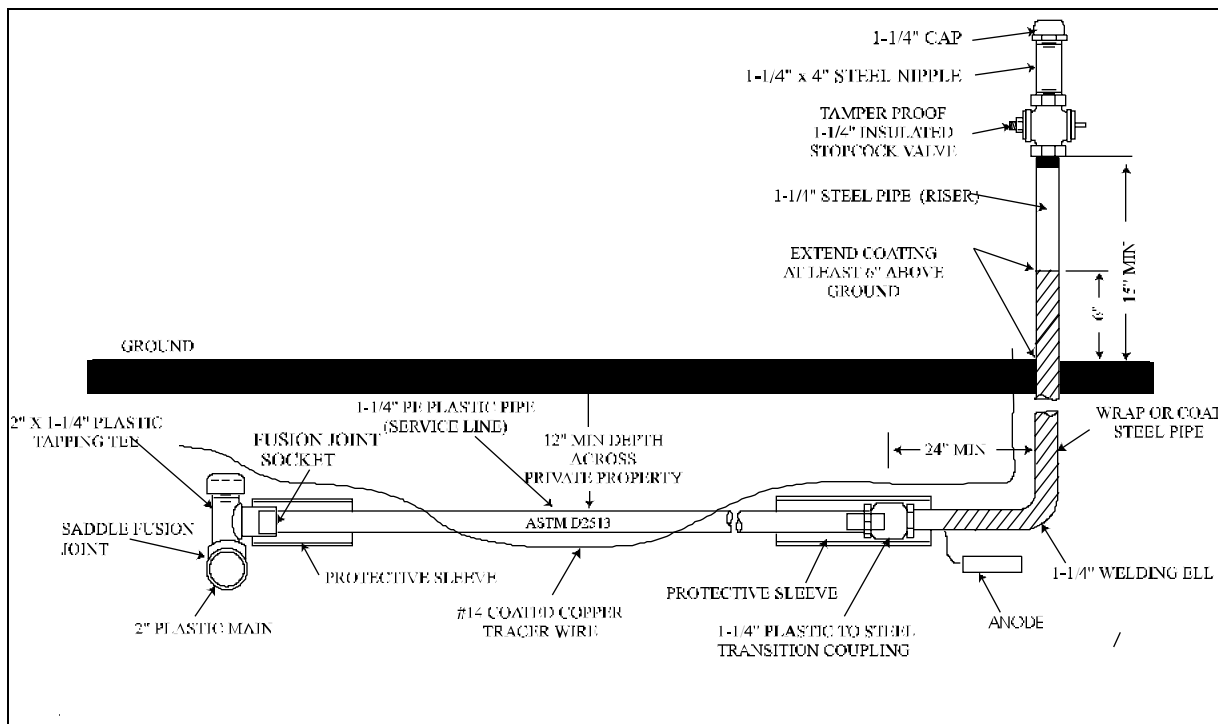


FIGURE VI-18A

An example of a 1 1/4" plastic service line from a 2" PE plastic main (for illustration purposes only).



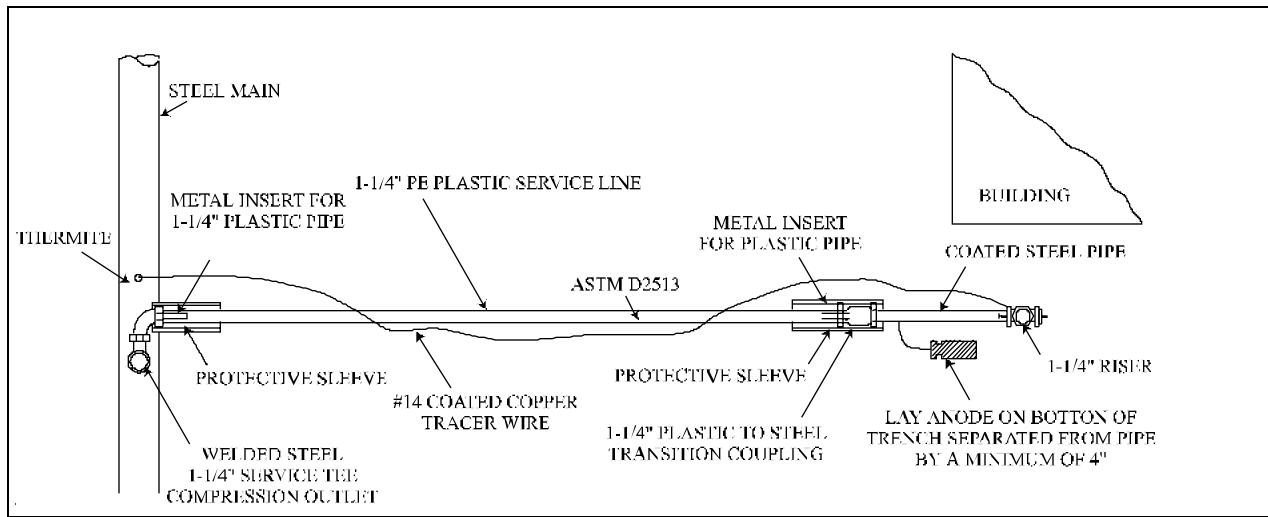
Plan



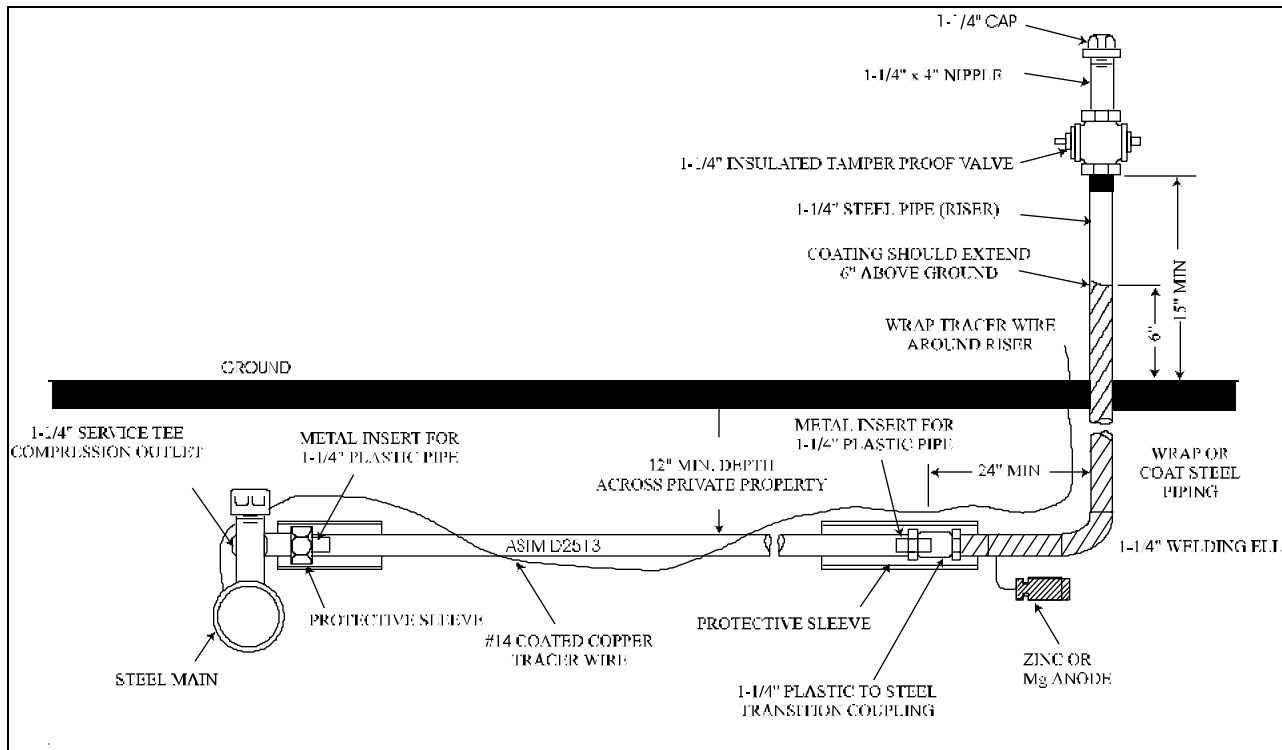
Elevation

FIGURE VI-19

An example of a 1 1/4" PE plastic service line from a steel main (for illustration purposes only).



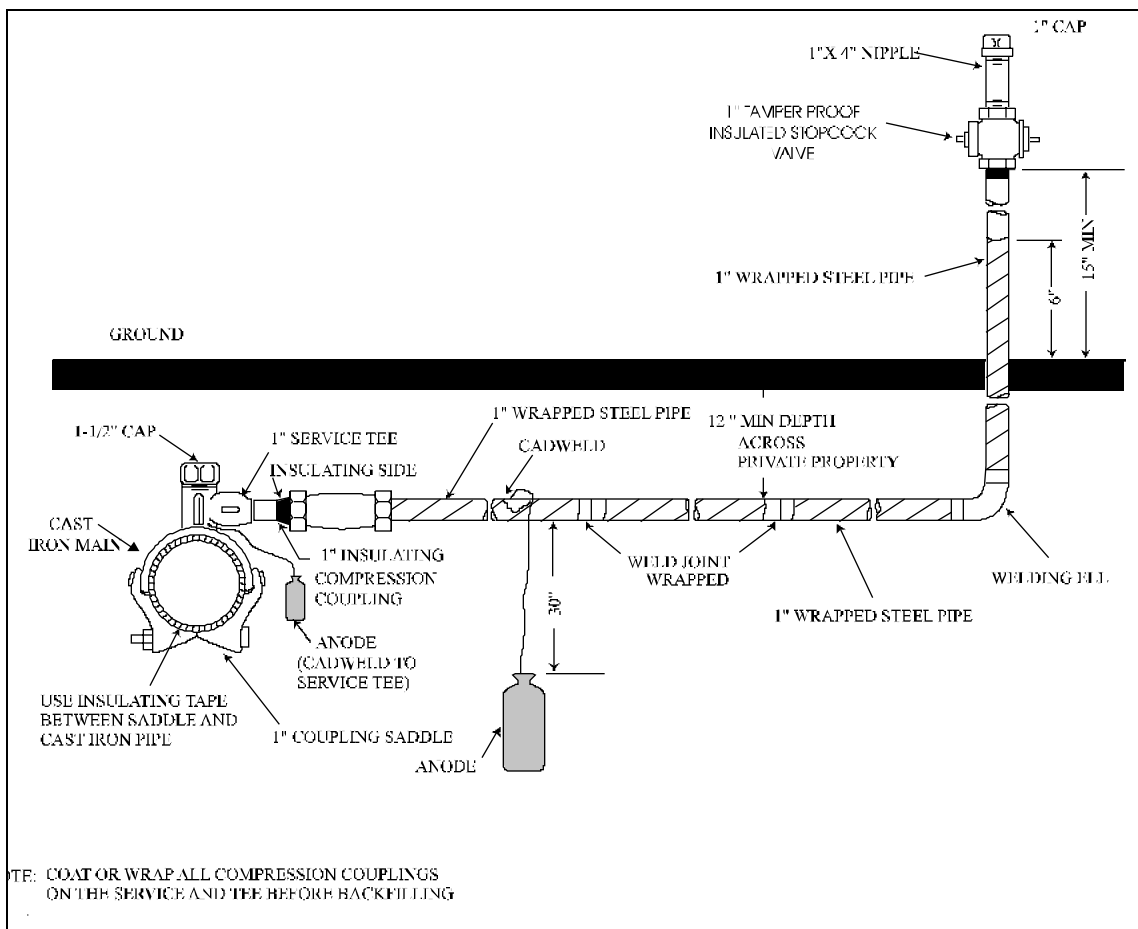
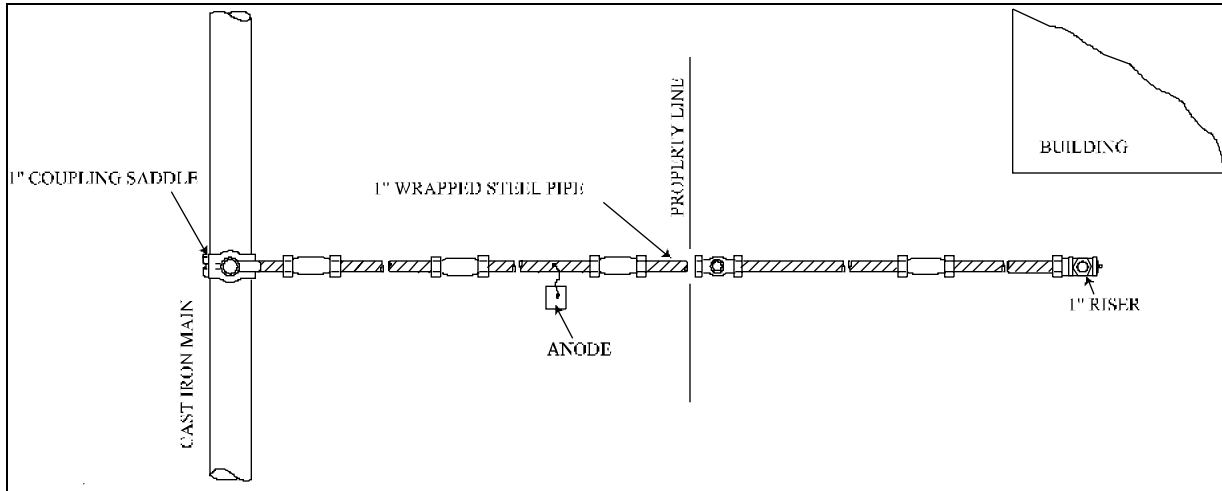
Plan



Elevation

FIGURE VI-20

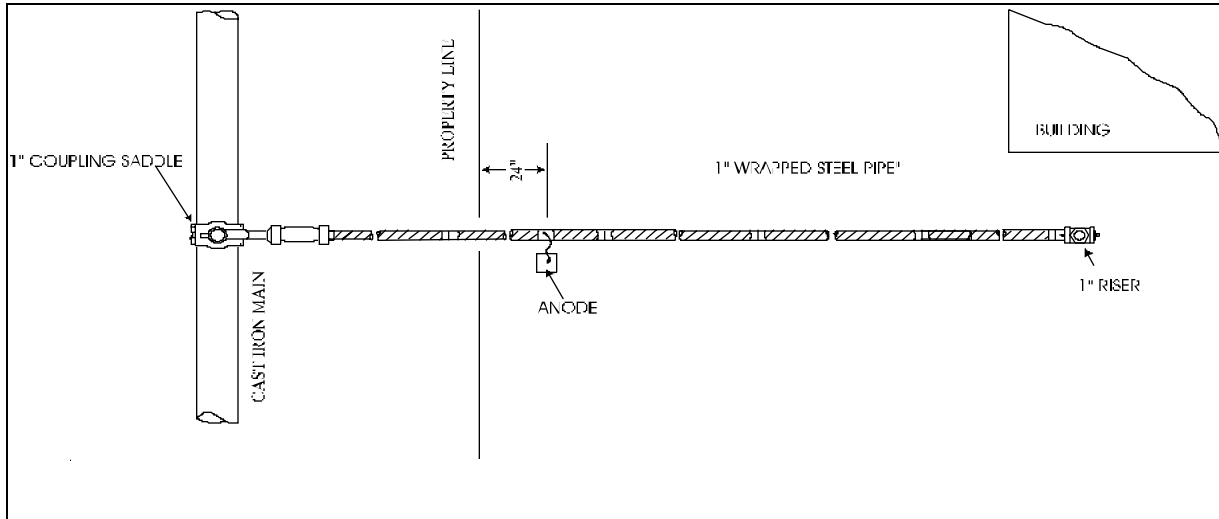
An example of non-welded 1" service line from a cast iron main (for illustration purposes only).



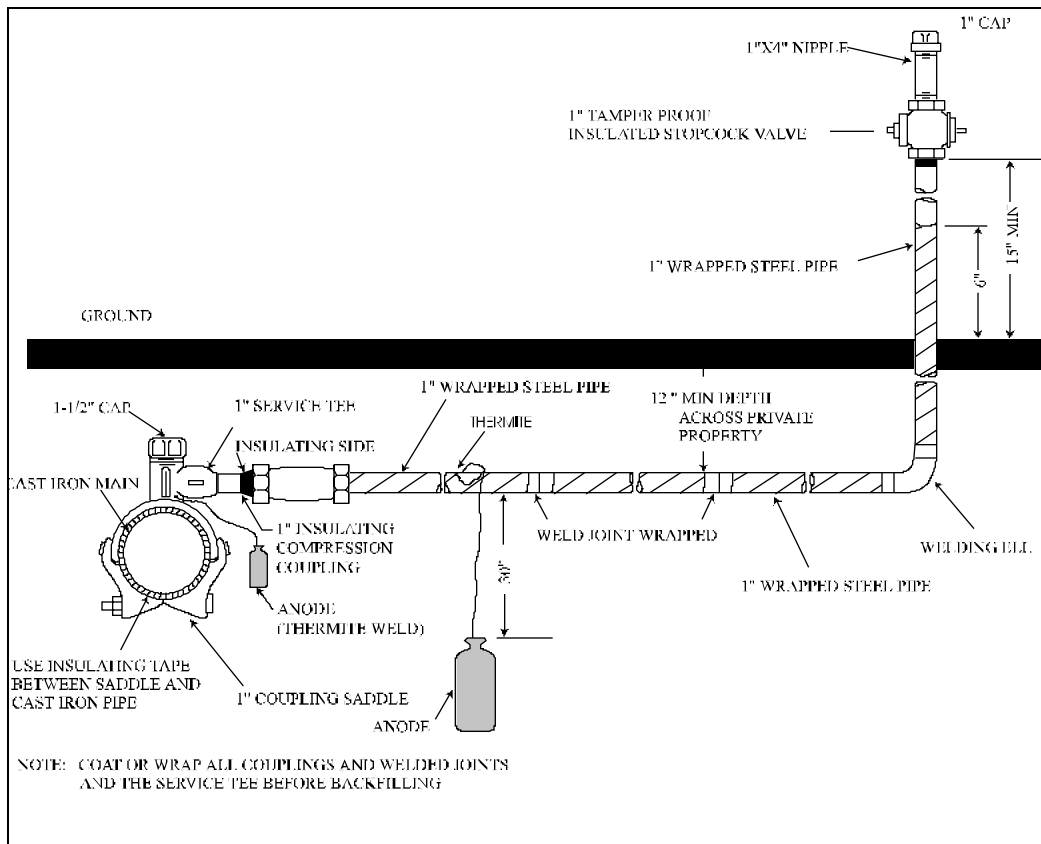
Elevation

Figure VI-21

An example of a welded 1" steel service line from a cast iron main (for illustration purposes only).



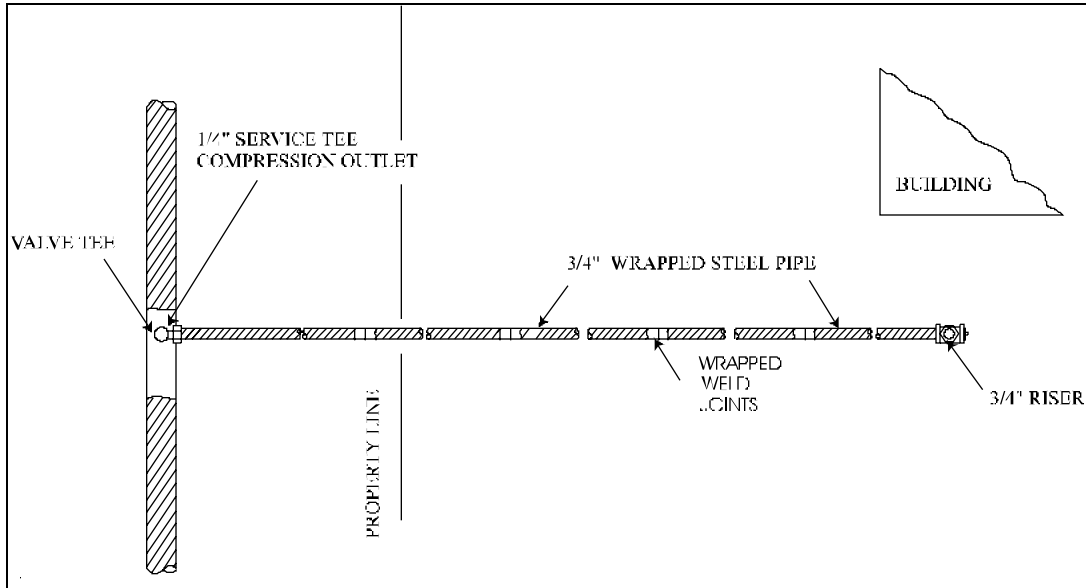
Plan



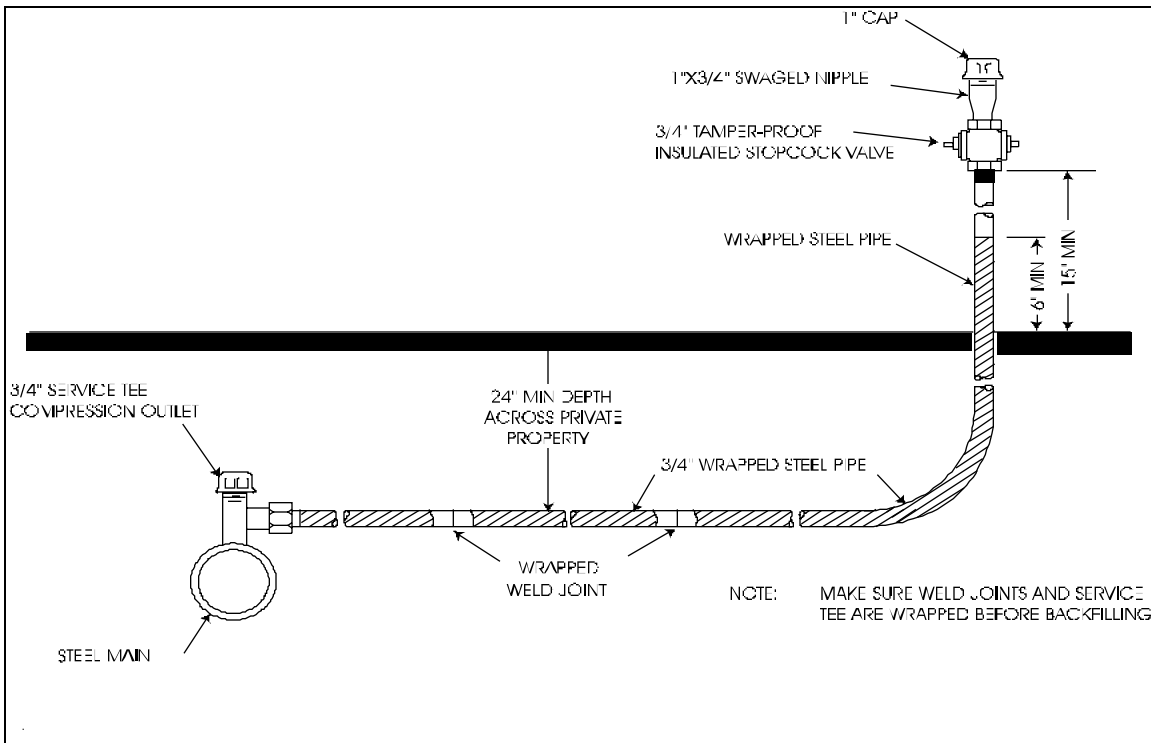
Elevation

FIGURE VI-22

Below is an example of a welded $\frac{3}{4}$ " service line from a steel main (for illustration purposes only).



Plan



Elevation

The following two pages (FIGURES VI-23A AND 23B) illustrate a steel to plastic connection using a coupling. There are other sizes of connections. Refer to specific manufacture's instructions for the proper couplings and coupling procedures.

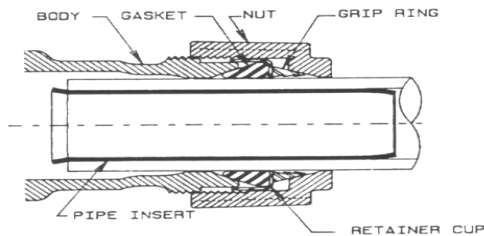
FIGURE VI-23A

DRESSER®

INSTALLATION INSTRUCTIONS

Style 90 "Universal" Couplings & Fittings

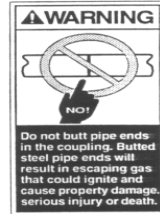
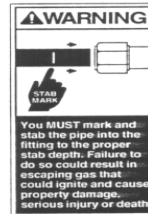
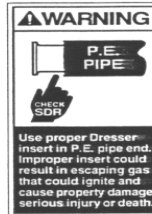
For P.E. to P.E., P.E. to Steel & Steel to Steel
(For use on polyethylene pipe listed in ASTM D2513)



1. Clean steel pipe ends to bare metal removing oil, dirt, loose scale, and rust. Polyethylene pipe must be free of dirt, longitudinal scratches, grooves & burrs for a distance of 4" when using 5" long bodies or fittings & 7" on 10" long bodies.
2. On all P. E. pipe ends, the recommended Dresser insert stiffener must be installed. Before inserting in pipe end, each insert should be checked to ensure that the SDR indicated on the branding corresponds to the SDR of the pipe being used.
3. Remove plastic identification plug from nut, then loosen nut (DO NOT DISASSEMBLE) and check inside of the fitting to assure gasket and grip ring are loose and free of dirt or foreign matter.

4. Apply soap-water to the gaskets, only when installing on steel pipe (ethylene glycol may be added in freezing weather).
5. Mark each pipe 2" from pipe end. Stab the pipe end(s) into the fitting or coupling until the mark on the pipe is even with the edge of the nut or inside the nut.
CAUTION: A minimum of 1/2" is required between the pipe ends or pipe end and pipe stop in fitting when connecting steel pipe(s).
6. Tighten nut(s) independently while holding the body from rotating with a 100 lb. minimum pull on the recommended wrench size.

Nominal Pipe Size (I.D.)	Wrench Size
3/4"	14"
1"	18"
1-1/4"	18"
1-1/2"	24"
2"	24"



Product Rating For Couplings With Same Pipe Diameter On Both Ends (For Reducing Sizes, The Rating For The Smallest Diameter Applies)

Pipe Size		Max. Sealing Pressure (See Note 2)	Max. Steel Pipe Pullout Resistance	Polyethylene Pipe Pullout Resistance Up To The Max. Wall Listed In Table Meets Or Exceeds The Requirements Specified In D.O.T. 192.283(b) (See Note 1)	
Nom.	O.D.			Type 2306	Type 3406/3408
3/4"	1.050	150 P.S.I.	1300 lbs.	SDR 11	Sch. 40
1"	1.315	150 P.S.I.	2100 lbs.	SDR 11	SDR 9.3
1-1/4"	1.660	150 P.S.I.	3200 lbs.	SDR 10	SDR 9.3
1-1/2"	1.900	150 P.S.I.	3700 lbs.	----	SDR 11
2"	2.375	150 P.S.I.	6600 lbs.	SDR 9.3	SDR 9.3

NOTE 1 - Pullout resistance is based on using Dresser reinforcing pipe inserts.
NOTE 2 - Unless noted on body.

DMD DRESSER DMD DIVISION, DRESSER INDUSTRIES, INC.
41 FISHER AVENUE
BRADFORD, PENNSYLVANIA 16701