

Revised: 10-12-10

Main Line Gas Standards Table of Contents

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Ten Step Installation Procedures

1. Apply for gas service by calling The Energy Cooperative at 800/255-6815 and ask to receive your Main Line Tap Application and Agreement Form.
2. Submit Application and Agreement with Fees.
3. Pick up operator qualification card and regulator assembly if required from The Energy Cooperative's Hebron Service Center at 120 O'Neil Drive in Hebron, Ohio.
4. **Before digging call OUPS (Ohio Utility Protection Service) at 800/362-2764 or 811** and order a "locate" by telling them you are about to install a gas service line. OUPS will notify the various utility companies in your area to locate all underground utilities at the proposed construction site. The locate will show you where all utilities are located, including where our proposed mainline tap will be located. If you fail to do this and the service line is installed incorrectly, it will be the responsibility of the customer/member to correct.
5. Purchase materials for outside installation: Pipe, riser, tracer wire and mounting bracket.

Outside Installation: A continuous length of plastic pipe is preferred from the proposed meter set location at the house entrance to the street or easement. This includes the plastic service line, tracer wire, riser, bracket, steel piping and fittings at the house entrance. At the street or easement plug or cap the end of the plastic service line and leave coiled up for The Energy Cooperative to connect to its facilities. See drawings number three and four. Make sure that you or your installer understands the proper drawing/sketches and the National Fuel Gas Code guidelines are followed especially all piping installations downstream of the meter set.

6. Call The Energy Cooperative at 800/255-6815 and request a mainline tap to be made.
7. The Energy Cooperative will install the main line tap and meter assembly near the main gas line.
8. You may proceed with the inside house piping while waiting for your mainline tap. The National Fuel Gas Code Guidelines apply to all houseline piping, etc.

Inside Installation: Use standard weight steel/wrought iron pipe, or corrugated stainless steel tubing that is approved for natural gas use. Do not use galvanized pipe or fittings. Each appliance must have an accessible manual shut off gas valve upstream of the appliance it serves.

9. When the inside piping has been completed, and the main line tap has been made, call The Energy Cooperative at 800/255-6815 and request a pressure test, meter installation, and for the gas to be turned on.
10. The Energy Cooperative will inspect the inside and outside piping, and perform the following tests.
 1. The outside service line (the connection at the street or easement to the meter set at the house) will be tested to 90 psig for 10 minutes.
 2. The inside house piping (house entrance to appliance valves) will then be tested to 3 psig for 10 minutes.
 3. If the 3 psig test is successful then a 4 oz. test for 10 minutes will be done testing each appliance control valve.If the 4 oz. test is successful then The Energy Cooperative will install the meter, turn on the gas and light the pilot lights.

Your first billing from The Energy Cooperative will be in 30 to 45 days. Please do not hesitate to call member services at 800/255-6815. The member/customer is responsible for the maintenance, repairs and/or replacement of the gas service line and the house line piping.

* Effective November 1, 2006, the practice of installing main line taps on gathering pipelines have been suspended. This suspension will be indefinite pending evaluation of systems for supply constraints or possible abandonment's. The only exceptions will be cases where we are obligated by a specific reference to a tap in the right-of-way.

***A call back charge will be assessed if The Energy Cooperative has to return to re-inspect or retest any portion of the piping resulting from improper installation or failure of the piping to hold during the testing procedure.**

Main Line Service Requirements

The Energy Cooperative will install the tap and meter assembly setting. Drawing number three shows a typical gas service line and building entrance. Drawing number four shows a typical gas service line and trailer entrance.

The gas load and the distance from the meter setting to the structure shall determine the pipe size and operating pressure of the service line. The following table shows BTUH capacity for service piping. A low pressure gas service is preferred for residential usage.

| Low pressure service line footage | | | | | | | | | |
|-----------------------------------|-----------|-----------|-----------|-----------|-----------|---------|---------|---------|---------|
| Pipe Size | 100 | 200 | 300 | 400 | 500 | 1000 | 1500 | 2000 | 2500 |
| 1 ¼" | 380,000 | 268,000 | 219,000 | 189,000 | 169,000 | 119,000 | 97,000 | 84,000 | 68,000 |
| 2 " | 1,880,000 | 840,000 | 685,000 | 594,000 | 531,000 | 375,000 | 306,000 | 265,000 | 200,000 |
| 5 psig service line footage | | | | | | | | | |
| 1 ¼" | 2,740,000 | 1,930,000 | 1,580,000 | 1,370,000 | 1,220,000 | 860,000 | 700,000 | 610,000 | 440,000 |

The Energy Cooperative supplies a regulator if required for a 5 psig system. You may pick it up Monday through Friday between 9 a.m. and 3 p.m. at the Hebron Service Center, 120 O'Neill Drive in Hebron.

All member/customer service piping both inside and outside the structure shall be installed according to the National Fuel Gas Code. Contact a certified plumbing/heating contractor to perform your outside and inside piping.

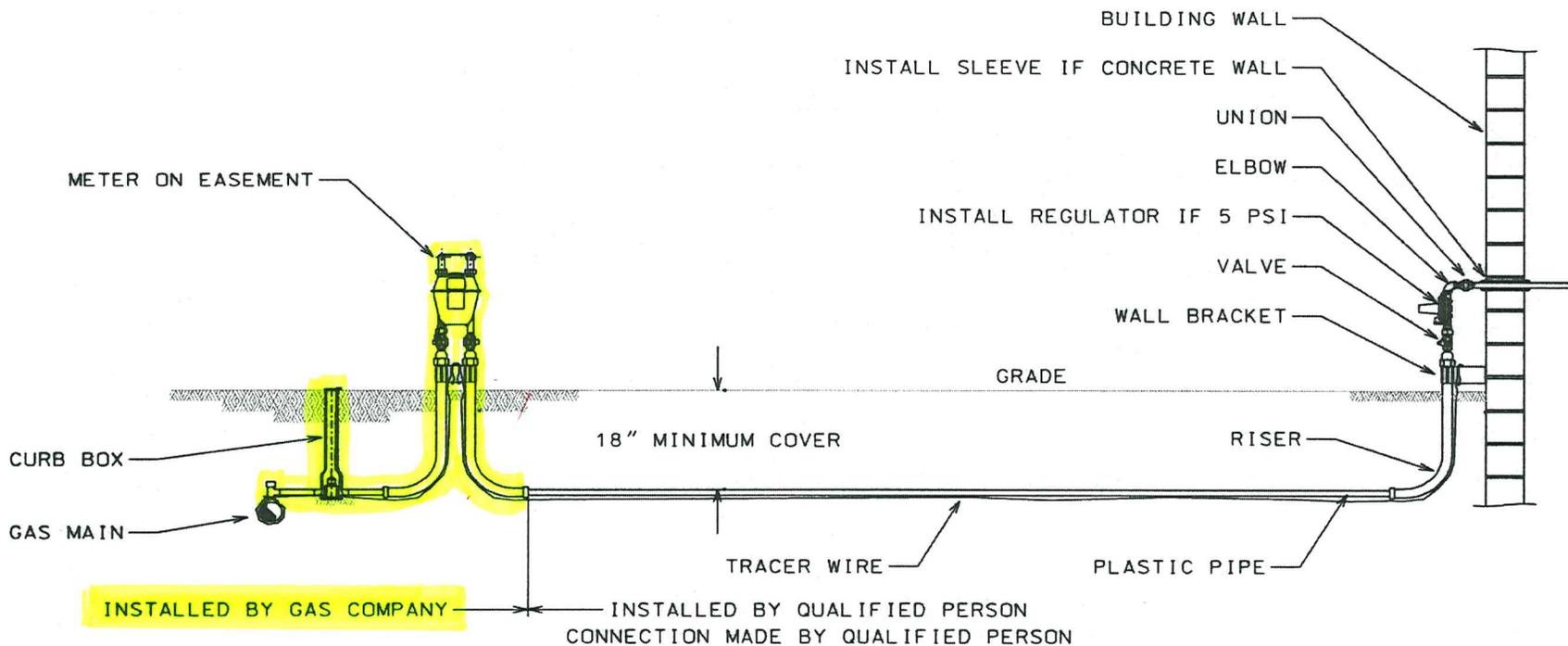
The member/customer is responsible for the maintenance, repairs and/or replacement of the gas service and the house lines.

Ten Things to Remember

1. The plastic pipe to be used must be approved by The Energy Cooperative Engineering Department. Call 800/255-6815 for assistance.
2. All underground connections are to be made using plastic fusion or mechanical fittings approved for use with natural gas.
3. Make sure that qualified pipe joining procedures were followed.
4. Leave all underground joints exposed for inspection.
5. Wall sleeves are required only on house piping entrance through concrete or concrete block walls.
6. At least one appliance must be connected to have your gas turned on.
7. Pre-test your piping to check for leaks.
8. Make sure that you or your installer understands the proper drawing/sketches and the National Fuel Gas Code guidelines are followed especially all piping installations downstream of the meter set.
9. If you have any questions regarding the installation of your service line piping, or houseline piping do not hesitate to call the Member Services Department at 800/255-6815.
10. Make sure the operator qualification card is filled out prior to the serviceman inspecting and pressure testing your system.

Natural gas is the most efficient energy available – use it wisely.

GAS DISTRIBUTION STANDARDS



OPERATING PRESSURE DEPENDS ON FOOTAGE
 1 FT TO 500 FT IS 0Z
 501 FT PLUS IS 5 PSI

PIPE SIZE DEPENDS ON FOOTAGE
 1 FT TO 99 FT IS 1" CTS
 100 FT PLUS IS 1 1/4" IPS

SERVICES - PREFABRICATED METER SET - MEDIUM PRESSURE

Approved By:

Date:

SERVICE LINE - METER ON EASEMENT - BUILDING

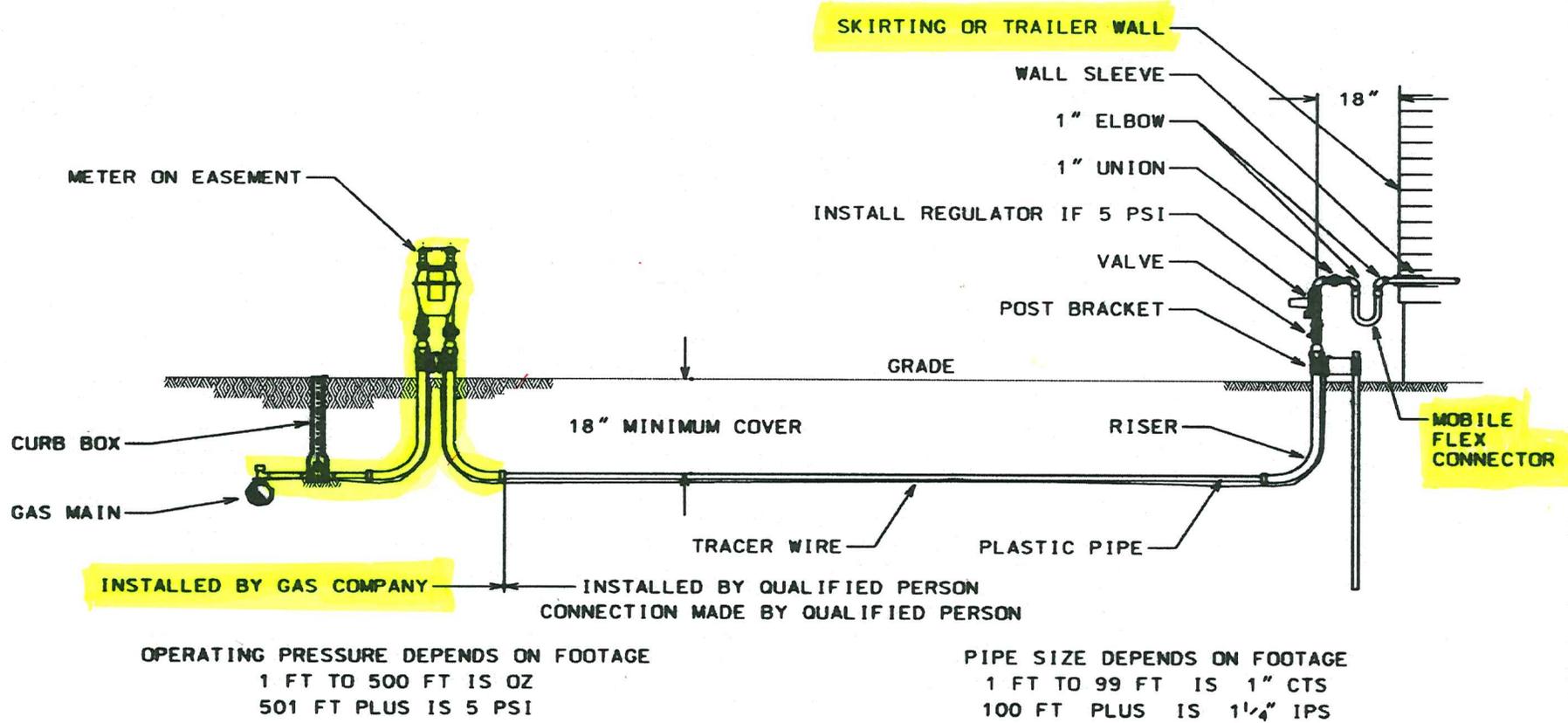
Chapter:

2

Drawing:

03

GAS DISTRIBUTION STANDARDS



SERVICES - PREFABRICATED METER SET - MEDIUM PRESSURE

| | | | | |
|--------------|-------|-----------------------------------------|------------|-------------|
| Approved By: | Date: | SERVICE LINE - METER ON EASEMENT | Chapter: 2 | Drawing: 04 |
|--------------|-------|-----------------------------------------|------------|-------------|