

**CITY OF TEXAS CITY  
PROCEDURES FOR GAS LINE OR GAS TEST INSPECTIONS**

1. A permit must be taken out before an inspection will be made on a gas line. A homeowner may obtain a permit for **their homestead**. Plumbing work on rent property or commercial property must be done by a licensed and bonded plumbing contractor. The fee for the permit is \$15.00. The permit is obtained from the Inspection Department at City Hall Annex, 928 5<sup>th</sup> Ave. No.
2. Gas lines may be of galvanized or black pipe; however, it must be either wrapped or coated. Plastic pipe made for gas lines may be used underground. (Water pipe **cannot** be used for gas lines). Any pipe above ground must be galvanized. Plastic lines must have a #18 insulated tracer wire on top of the pipe from riser to riser.
3. A wall service shut off valve is required at every opening. Turn off gas at all wall service valves and to every appliance. (Range, water heater, dryer, central heat, etc).
4. Once the line is repaired a gauge must be put on the line with air pressure holding on the line. This gauge must have 10 pounds of air pressure holding on the line when the inspection is made. Gas tests must be performed with a diaphragm gauge with 6 PSI (Residential gauge) or 30 PSI air gauge with 10 PSI holding on line for the inspection. **THE INSPECTOR DOES NOT FURNISH THE GAUGE AND DOES NOT PUT THE TEST ON THE LINE.** This must be done by the homeowner or plumber.
5. After the line has been holding for 2 hours, call the Inspection Department (409) 643-5946 for inspection. The inspector will need access to the inside of the house at the time of inspections. Give us the address and permit number for the inspection.
6. After the inspection is made, the inspector will leave a green tag on the line stating that it has passed inspection. The Inspection Department will notify the gas company that the line has been inspected; however, **the homeowner or plumber must also notify the gas company and they will bring the meter back or turn the gas back on.** The phone number for the gas company is (409) 935-2468.

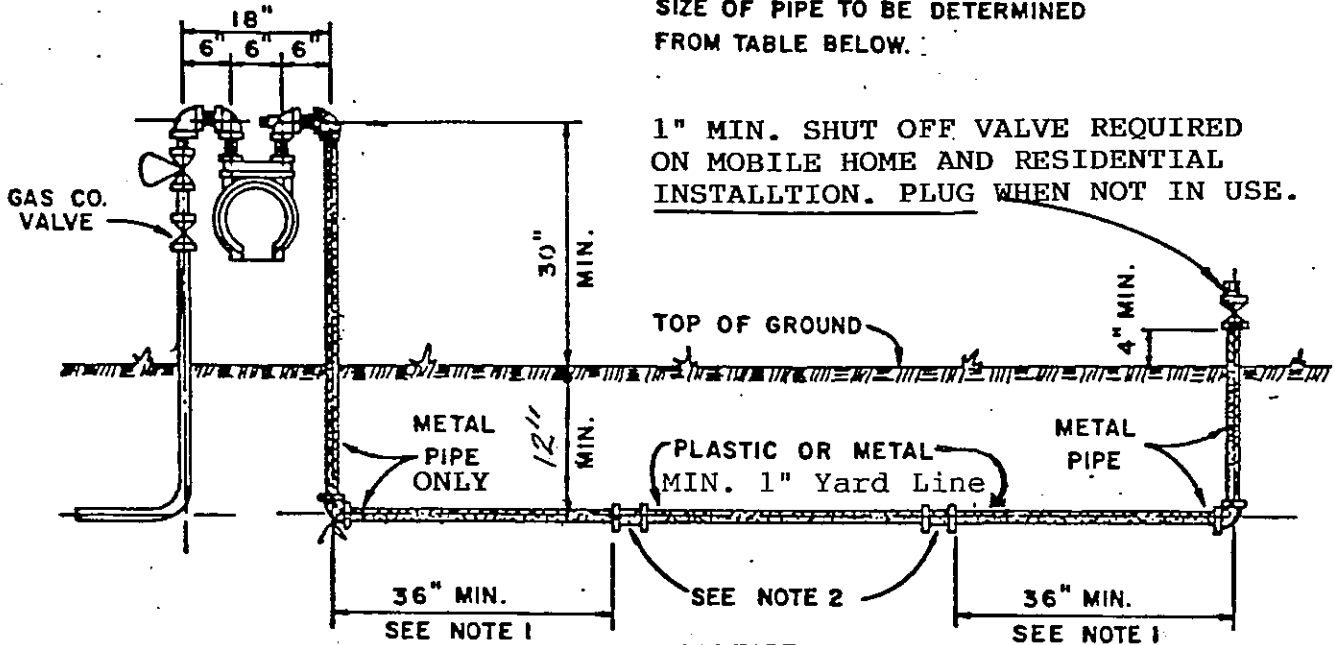
**NOTE: All houses or buildings that have been vacant for six (6) months or more must have a gas test on the lines before the gas meter will be installed. This is by mutual agreement between CenterPoint Energy and the City of Texas City.**

**A green tag is valid for thirty (30) days only, if service is not established by then, the permit and inspection process will have to be repeated.**

# CONSUMER GAS PIPING (SHADED)

## RESIDENTIAL INSTALLATION

SIZE OF PIPE TO BE DETERMINED FROM TABLE BELOW.



1" MIN. SHUT OFF VALVE REQUIRED ON MOBILE HOME AND RESIDENTIAL INSTALLTION. PLUG WHEN NOT IN USE.

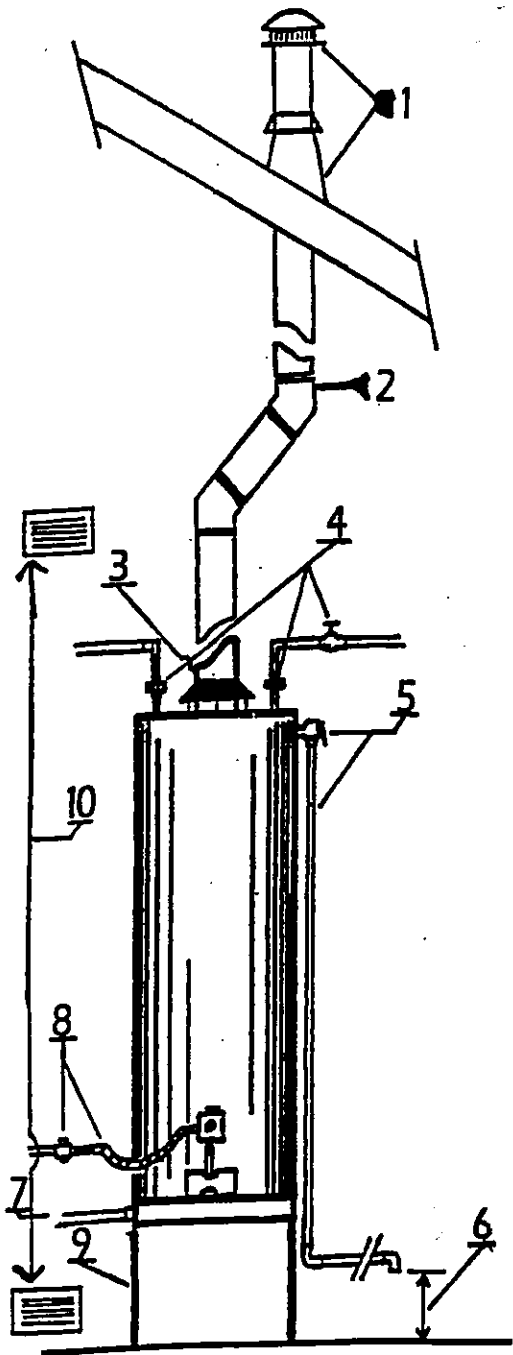
NOTE: ALL PIPE NEEDS TO BE COATED OR TAPED WITH GAS TAPE

1. All pipe above ground to be metal and extend a minimum of 12" below ground and 36" on horizontal run.
2. Plastic to metal connection shall be a mechanical joint type or plastic to metal transition fitting. Be certain that stiffeners are included in the connection. All plastic pipe must have a minimum 18 gauge yellow tracer wire.
3. After all install and repairs are made, all lines inside and outside of the building must be tested with an air gauge of at least 10 lbs.
4. Test consumer gas piping for leaks before calling for inspection.
5. Test must hold for a minimum of 3 hours before calling for inspection.

| APPROXIMATE MAXIMUM DEMAND OF TYPICAL GAS APPLIANCES IN CU.FT. PER HOUR |                  | SIZE OF GAS PIPE  |                   |     |      |      |      |      |       |       |       |
|---|------------------|---|-------------------|-----|------|------|------|------|-------|-------|-------|
|   |                  | Maximum Capacity of Pipe in Cubic Feet of Gas Per Hour<br>(Based upon a Pressure Drop of 0.5 inches Water Column, 0.6 Specific Gravity Gas and Schedule 40 Pipe.) |                   |     |      |      |      |      |       |       |       |
| APPLIANCE   | DEMAND CU.FT./HR | Length in feet  | NOMINAL PIPE SIZE |     |      |      |      |      |       |       |       |
|   |                  |   | ¾"                | 1"  | 1¼"  | 1½"  | 2"   | 2½"  | 3"    | 4"    | 6"    |
| Domestic Range, Free-Standing   | .65              | 10  | 272               | 547 | 1200 | 1860 | 3759 | 6169 | 11225 | 23479 | 69671 |
| Domestic Built-In Oven  | .25              | 20  | 192               | 387 | 849  | 1315 | 2658 | 4362 | 7938  | 16602 | 49265 |
| Domestic Built-In Top Burner Unit                                       | .40              | 30  | 157               | 316 | 693  | 1074 | 2171 | 3562 | 6481  | 13556 | 40225 |
| Storage Water Heater - Up to 30 Gal. Tank                               | .30              | 40  | 136               | 273 | 600  | 930  | 1880 | 3084 | 5613  | 11740 | 34835 |
| Storage Water Heater - 30 to 50 Gal. Tank                               | .55              | 50  | 122               | 244 | 537  | 832  | 1681 | 2759 | 5020  | 10500 | 31158 |
| Heating Units, Avg. 1,000 to 1,400 Sq.Ft. Floor Space                   | .80              | 60  | 111               | 223 | 490  | 759  | 1535 | 2518 | 4583  | 9585  | 28443 |
| Heating Units, Avg. 1,400 to 1,800 Sq.Ft. Floor Space                   | 1.00             | 70  | 103               | 207 | 454  | 703  | 1421 | 2332 | 4243  | 8874  | 26333 |
| Heating Units, Avg. 1,800 to 3,000 Sq.Ft. Floor Space                   | 1.40             | 80  | 96                | 193 | 424  | 658  | 1329 | 2181 | 3969  | 8301  | 24632 |
| Domestic Clothes Dryer  | .35              | 90  | 91                | 182 | 400  | 620  | 1253 | 2056 | 3742  | 7826  | 23224 |
| Domestic Gas Light  | .2               | 100   | 86                | 173 | 379  | 588  | 1189 | 1951 | 3550  | 7425  | 22032 |
| Air Conditioning, 3 Ton   | .85              | 125   | 77                | 155 | 339  | 526  | 1063 | 1745 | 3175  | 6641  | 19706 |
| Air Conditioning, 4 Ton   | 1.07             | 150   | 70                | 141 | 310  | 480  | 971  | 1593 | 2898  | 6062  | 17989 |
| Air Conditioning, 5 Ton   | 1.50             | 175   | 65                | 131 | 287  | 445  | 899  | 1475 | 2683  | 5613  | 16655 |
| Steam Boiler - Per Horsepower   | .50              | 200   | 61                | 122 | 268  | 416  | 841  | 1379 | 2510  | 5250  | 15579 |
| Restaurant Range - 4 Top Burners, 2 Ovens                               | 1.50             | 225   | 57                | 115 | 253  | 392  | 793  | 1300 | 2367  | 4950  | 14688 |
| Restaurant Range - 6 Top Burners, 2-4 Ovens                             | 2.40             | 250   | 54                | 109 | 240  | 372  | 752  | 1234 | 2245  | 4696  | 13934 |

# CITY OF TEXAS CITY INSPECTION DEPARTMENT

## PROPER WATER HEATER INSTALLATION



1. Vent shall extend a minimum of 18" above the roof surface, through a flashing, and terminate in an approved or listed vent cap. Overall vent height must be a minimum of 5 ft.
2. Venting system shall consist of approved chimney, Type B vent or a venting assembly which is an integral part of a listed appliance.
3. The draft hood shall be properly installed and must be draft hood designed for the water heater.
4. A fullway valve shall be installed on the cold water supply to each water heater. If copper water piping is used, there shall be a dielectric break between the copper and any dissimilar metallic tank or piping. (Flexible water heater connections may be used as a dielectric break)
5. Each water heater shall have a temperature and pressure relief valve properly installed according to manufacturer, and discharged outside the building. The discharge line shall not be smaller than the relief valve outlet, and shall be of galvanized steel, hard drawn copper piping the first 10 ft. on all new construction and existing two-story structures. CPVC is acceptable on single-story, retrofit only after the first 10 feet.
6. T & P shall discharge downward and terminate 6" from grade.
7. Water heater in an attic or furred space shall be installed in a water-tight pan with a 1" outlet and a full size drain line discharged outside the building.
8. Gas valve shall be AGA approved and accessible. Connector may be ridged, black or galvanized pipe with a union or a listed AGA flexible connector. Electric water heaters shall have a means of disconnect at the heater.
9. All gas fired water heaters installed in a garage or in a closet opening into a garage, shall be at least 18" above the floor level to any flame. Attic installations shall have a 24" walkway and be within 20' of the attic access opening
10. All fuel burning water heaters shall be supplied with adequate supply of combustion air, in accordance with the 2006 IRC & 2006 IPC Codes.