WARNING
- Failure to complete items below prior to inspection may result in a re-inspection fee.

PRIOR TO INSTALLATION
- Approval from the City of Palo Alto Building Division is required prior to the installation of CSST gas piping. Contractor shall submit a single line diagram of the CSST gas piping system that includes all pipe sizes, pipe lengths, and BTU ratings for all gas appliances. Gas pipe sizing shall be in accordance with the tables provided from the approved manufacture of the CSST. Arrangements shall be made to meet with building inspection supervisor or mechanical/plumbing inspector for review. Please provide written authorization of substitution to CSST from owner/contractor at time of submittal.

See attached example of a single line diagram.

☐ INSPECTION
- All installations shall be inspected by the by the City of Palo Alto in accordance with state and local mechanical/plumbing codes and the NFPA 54 (ANSI z 223.1)
- Installer shall be qualified per state and local requirements and trained and certified for the installation of CSST system. Installer shall show inspector certification card. CPC 108.7
- Installer shall provide inspector with the CSST manufacturer’s installation instruction documentation and CPA approved single line diagram as stated above.
- CSST fittings and components are part of the CSST piping system and shall be as specified by the manufacturer. Fittings are not interchangeable between different manufacturers of CSST.
- Inspector shall verify correct installation of system not limited to: Bending tolerances, vertical and horizontal supports, striker plates, proper fittings & piping, properly sized piping, wall penetrations have been properly sealed.
- Underground house line: Depth min 18”/max 24” properly cased and coated, properly vented, anode connected properly, insulated fittings properly controlled. CPC 108.7.2.1
CSST **shall not** be connected directly to log lighters, ranges, dryers, or other gas utilization appliances. CSST must terminate with a fitting flange with no kinks, and be protected from physical damage 4” each side of stud. *CPC 1212.1 (4)*

- Inspection and pressure test required at rough in. **whole house gas test at meter location (3 pounds for 10 minutes)**. *CPC 1214.0*

- Transition from steel to CSST must be accessible for visual inspection.

- **Underground beneath buildings:** Code requires that the piping shall be encased in a conduit sealed inside of the building and vented above grade to the outside. the conduit shall be designed to withstand the superimposed loads. *CPC 1211.1.6*

- **Bonding:** All CSST systems shall be bonded directly to one of the grounding electrodes or to the grounding electrode conductor with a #6 AWG copper wire and approved clamps. The point of attachment shall be a CSST fitting or steel pipe component of the system and not directly to the CSST itself. **See attached “CSST bonding” Requirements. CPC 1211.14**

- **Bonding jumpers** shall be attached in an approved manner and accessible at the point of attachment. # 6 wire. *CEC 250.70*

**EXAMPLE OF A SINGLE LINE DIAGRAM**

<table>
<thead>
<tr>
<th>TOTAL DEMAND</th>
<th>430,000 BTU</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXISTING GAS METER SIZE</td>
<td>250,000</td>
</tr>
</tbody>
</table>

Based on the above calculations gas meter needs to be upgraded.