

## **PROCEDURES**

### **VALVES INSTALLATION**

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#### **2.0 PURPOSE**

It is the purpose of this section to provide the minimum requirements for the installation of valves.

#### **2.1 SCOPE**

- A. Installation
- B. Location
- C. Regulator Station
- D. Service Valves
- E. Buried Valves
- F. Steel Valve & Valve Box
- G. PE Valve & Valve Box

#### **2.2 VALVE INSTALLATION**

Valves shall be approved type and shall be protected from damage and tampering. Valves shall be installed according to the Operator's system criteria. They may be installed above ground, in vaults, or buried. A device to open or close operating valves shall be readily accessible to authorized persons. Each valve must be able to meet its anticipated operating conditions.

#### **2.3 LOCATION**

Each valve on a main installed for operating or emergency purposes shall comply with the following:

1. Full opening
2. Placed in a readily accessible location so as to facilitate its operation in an emergency.
3. The operating stem or mechanism must be readily accessible.
4. The box or enclosure must be installed so as to avoid transmitting external loads to the main.
5. Have a raised head extension with common 2" square adaptor head.

#### **2.4 REGULATING STATIONS**

- A. Inlet Valve: Regulator stations controlling the flow or pressure of gas in a distribution system must have a valve installed on the inlet piping at a distance from

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the regulator station sufficient to permit the operation of the valve during an emergency that might preclude access to the station (**Recommended 20 LF**).

- B Outlet Valve: Each regulator station shall include an outlet valve rated to the MAOP of the Regulator station installed on the outlet piping at a distance from the regulator station sufficient to permit the operation of the valve during an emergency that might preclude access to the station (**Recommended 20 LF**).

#### 2.5 STOPCOCKS

- A. Stopcocks shall only be used aboveground in service and MSA installations.
1. At least one stopcock shall be installed in every new, replaced, altered or reinstated MSA in a readily accessible location.
  2. Every stopcock must be installed upstream of the regulator or, if there is no regulator, upstream of the meter.
  3. The stopcock shall be designed and constructed to minimize the possibility of the removal of the core of the valve with other than specialized tools.
- B. Property line valves shall be installed on service facilities when the stopcock adjacent to the MSA will not be readily accessible for emergency use. This criteria does not apply to a single family residence.

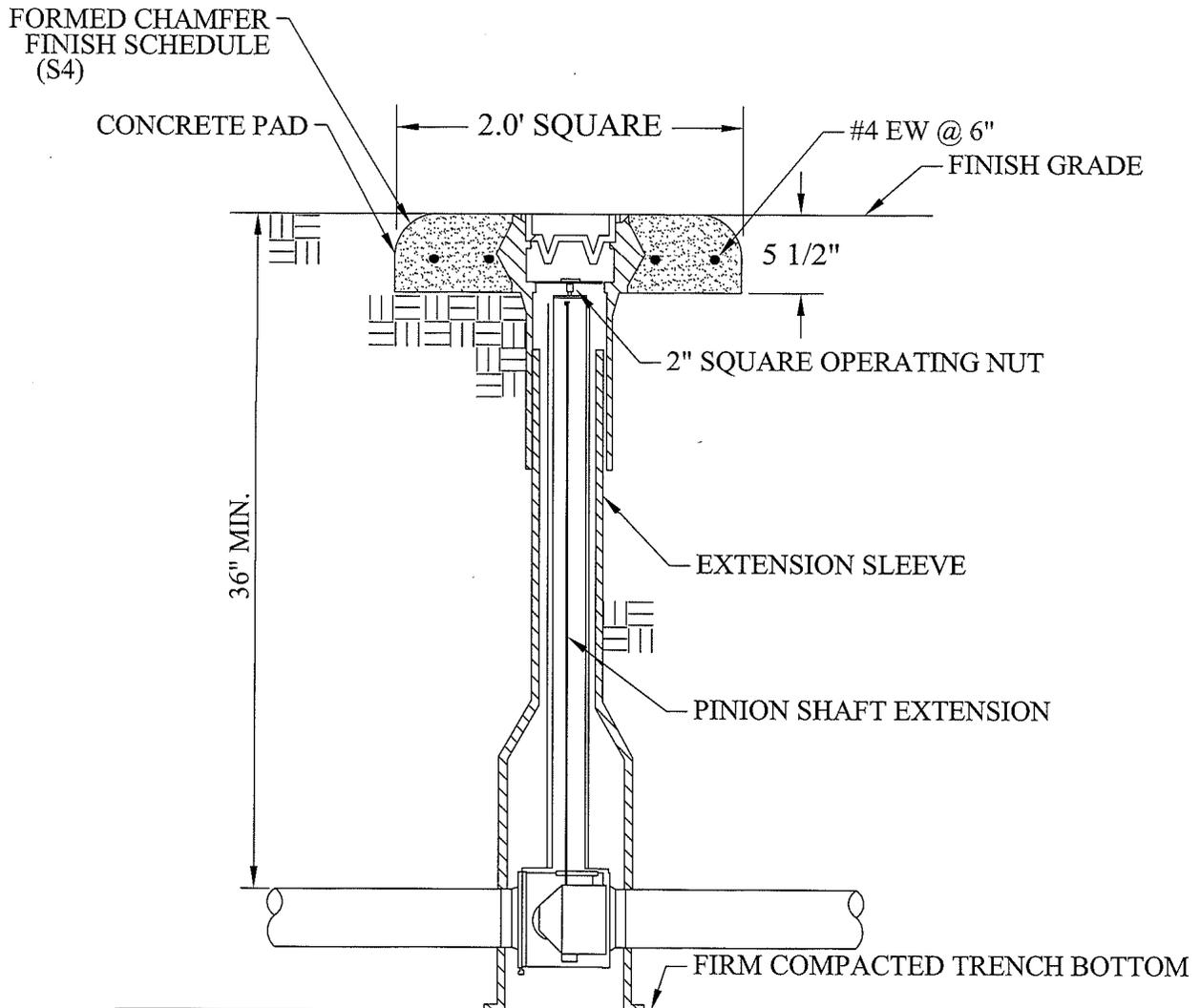
#### 2.6 BURIED VALVES

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- A. Steel Valves:
1. All buried steel valves shall be weld-neck.
  2. No flanged or threaded valves may be buried unless installed in an underground vault.
  3. Ensure that valve is installed on firmly compacted trench bottom.



- B. PE Valves:

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1. Every valve installed with plastic pipe must be designed so as to protect the plastic pipe against excess torsion or shearing loads when the valve is operated and from any other secondary stresses that might be exerted through the valve or its enclosures.
2. Support valve boxes for PE installations independently from the valve and on firmly compacted trench bottom.
3. Tracer wire shall be brought up 12 inches above grade minimum inside valve box in a loop fashion.

