PSE requires the following conditions to make the worksite construction ready ahead of scheduled service installation:

**Permits**
- Fuel line must be in place with an approved permit and plumbed to an approved gas meter location. A valid permit must be indicated by either:
  - A permit visible from outside the structure, or
  - A green Gas Service Approval sticker affixed to the fuel line.
- Electrical permit must be approved and the Department of Labor & Industries (L&I) sticker must be affixed on the electric meter base.

**Meter Location**
- An acceptable meter location that allows for required access and clearance shall be provided.
  - See Gas Meter Clearances and Service Installation Requirements (Form 3885) for gas meter locations.
  - See Electric Underground Service Installation Requirements (Form 6080) for electric meter locations.

**Trench Work**
- The worksite must be prepared to PSE specifications.
  - The site must be at final grade or have final grade marked in the area of construction and trench line route. For unique site preparation requirements, contact your Project Manager.
  - Installation of trench, work pits, sand for bedding and shading, and conduit must meet PSE specifications.
  - Sand must be provided by the builder or developer and placed within hand-shoveling distance to the work pit or trench for bedding and shading. (See Sand Requirements for Direct-Buried Installations on Page 2.)
  - If either gas or electric service will not be provided by PSE, please consult with the other utility for any additional clearance requirements. Use the greater of any conflicting distances.
  - Conduit for electric service lines shall be used under all paved surfaces, decks, rockeries, bulkheads, or obstacles to access the service line.

**Additional Information**
- For additional electric service installation information, see Electric Underground Service Installation Requirements (Form 6080).
- For additional gas service installation information and meter set assembly locations and clearances, see Gas Meter Clearances and Service Installation Requirements (Form 3885).
- View a video for the proper installation of natural gas piping at this site: PSE.com/ServiceRequirementVideos
- Call PSE's Customer Construction Services: 1-888-321-7779 or visit PSE.com/CustomerConstruction for questions or information not covered in this handout.

Become familiar with what can delay your project and cause it to be red-tagged:
- Construction debris or water in the trench or work pits.
- Trenches excavated to the incorrect depth.
- Failure to maintain minimum separations between utilities and drainage pipes.
- Sand and backfill material are not available, inaccessible, or inadequate.
- Requested meter location is not acceptable or fails to meet minimum clearances.
- Permits are not approved or visible.
- Conduit color and size are incorrect, or conduit is installed improperly.
Installation Bedding Shading Backfill

Conduit

- Not Required
- Not Required

Direct-Buried

- 4” minimum
- 6” minimum

Soil that is free from construction debris, glass, sharp rocks, frozen clods, and rocks larger than 8” in diameter.

Separation Requirements to Other Utilities for Conduit and Direct-Buried Installations

<table>
<thead>
<tr>
<th>Installation</th>
<th>Horizontal Separation</th>
<th>Vertical Separation when Crossing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Gas to Electric</td>
<td>Gas to TV/Tel</td>
</tr>
<tr>
<td>Conduit</td>
<td>12” minimum</td>
<td>6” minimum</td>
</tr>
<tr>
<td>Direct-Buried</td>
<td>12” minimum</td>
<td>12” minimum</td>
</tr>
</tbody>
</table>

NOTE: Stacking Utilities Not Permitted

† Contact your TV/TEL provider about their separation requirements from power. When conflict exists between PSE power and TV/TEL separation requirements, use the greater separation distance.

Backfill Requirements for Conduit and Direct-Buried Installations

<table>
<thead>
<tr>
<th>Installation</th>
<th>Bedding</th>
<th>Shading</th>
<th>Backfill</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conduit</td>
<td>Not Required</td>
<td>Not Required</td>
<td>Soil that is free from construction debris, glass, sharp rocks, frozen clods, and rocks larger than 8”</td>
</tr>
<tr>
<td>Direct-Buried</td>
<td>4” minimum</td>
<td>6” minimum</td>
<td></td>
</tr>
</tbody>
</table>

Sand Requirements for Direct-Buried Installations

- The customer shall provide additional clean sand meeting PSE standards in piles that are readily accessible within hand-shoveling distance of each work pit for shading and bedding.

- Sand meeting PSE specification can be found at supplier locations within the PSE service territory and is commonly referred to as “builder’s sand” (ASTM C33). Call PSE’s Customer Construction Services at 1-888-321-7779 for additional sand information.

- Bedding sand will be provided and installed by the customer to a minimum depth of 4 inches prior to the electric and gas direct-buried installations.

- Shading sand is to be installed by the PSE crew after direct-buried electric, gas, or joint service line installation. Enough sand shall be provided so that the installation can be covered to a minimum depth of 6 inches. (See diagrams above.)

* Check with local permitting agency for depth of cover requirements for any PSE facility installed in public right-of-way. 36” cover may be required over PSE facilities.
Property Line Work Pit and Service Connections

Work Pit Legend

1. **3/8” Pull Rope** - For runs over 60’ for electric and 100’ for gas.
3. **3/4 Yard Bedding and Shading Sand** - Sand shall be provided on-site by the customer and placed within hand-shoveling distance to the work pit for bedding and shading of direct-buried facilities. A larger work pit may require more sand (see sand and backfill requirements on Page 2).  
4. **Gas Service Conduit** - Customer Provided. See Conduit Requirements in Gas Meter Clearances and Service Installation Requirements (Form 3885).
5. **Electric Stub Marker** - Utility Provided.
6. **Gas Stub Marker** - Utility Provided. Dig to 12” from gas stub marker. Customer shall not expose the stub. If accidentally exposed, cover with 12” of sand.
7. **CATV/TEL**

**Property Line Work Pit Dimensions**

- **28” to 32” Deep** (24” Min Cover)
- **48” (Approx) Trench to Building**

**Joint Utility Work Pit**

- **1 Gas Service**
- **2 TV & TEL**
- **3 Electric Service**
- **4 PSE Transformer (Or Pedestal, Handhole, Pole, or Stubout)**
- **5 Excavated Dirt Pile and Sand Bedding/Shading**
- **6 Final Grade**

**Utility Installed Piping and Wires**

**EXAMPLE OF DISCONTINUOUS CONDUIT IN UNDERGROUND ELECTRIC SERVICE**
### Meter and Service Connections Work Pit

#### Work Pit Legend

1. **Electric Meter Base** - Customer Provided, and secured to stud or structural member.
2. **3/8" Pull Rope** - For runs over 60’ for electric and 100’ for gas.
3. **Conduit Service Riser** - Customer Provided.
4. **Conduit Straps (2 Minimum)** - Customer Provided.
5. **Conduit Elbows** - Customer Provided, 24” min bend radius. See conduit requirements in *Electric Underground Service Installation Requirements* (Form 6080).
7. **Gas Meter Assembly** - Utility Provided.
8. **Fuel Line Stub Typically Protrudes 4” to 5”** - Customer Provided
9. **Finish Grade** - Finish grade shall be clearly marked at fuel line stubout.
10. **Work Pit** - Leave work pit open between gas service line conduit and proposed gas meter service riser location for gas line extension (Customer Provided).
11. **3/4 Yard Bedding and Shading Sand** - Sand shall be provided on-site by the customer and placed within hand-shoveling distance to the work pit for bedding and shading of direct-buried facilities. A larger work pit may require more sand (see sand and backfill requirements on Page 2).
12. **Drainage Pipe** - 6” minimum clearance should be maintained from gas service line.
14. **Gas Service Conduit** - Customer Provided. See Conduit Requirements in *Gas Meter Clearances and Service Installation Requirements* (Form 3885).

#### Meter Base Work Pit Dimensions

**Electric and Joint Utility**

- **48" to 60"** (Approx)

**Fuel Line Stub**

- **32" to 38"** Typical

**Power**

- 12" Min

**TV & TEL**

- 32" Typical

**GAS**

For spacing between utilities, see Separation Requirements to Other Utilities for Conduit and Direct-Buried Installations (Page 2).

#### Non-Continuous and Continuous-Conduit Options

- **Non-Continuous-Conduit**
- **Continuous-Conduit**