For more information or if you have questions on these requirements please contact:

Engineering Department-509-582-1230
Jeff Vosahlo, Supervisor of Distribution Design-509-585-5390
Bob Roe, Distribution Designer-509-582-1242
Rick Sunford, Distribution Design Technician II -509-582-1271
Ken Klander, Distribution Design Technician I - 509-582-1241
Dave Smith, Distribution Design Technician I- 509-582-1231

CUSTOMER SERVICE REQUIREMENTS INDEX

General Information
Q-1A Meter Socket Terminal Clip Configuration
Q-1B Residential & Commercial Services Maximum Wire Lengths and Required Conduit Sizes
Q-1C Multiple Meter Base Identification Numbering Requirements for Multi-Unit Mobile Home Parks & Multi-Unit Buildings
Q-1D Group Meter Base Installation for Apartments, Strip Malls etc.
Q-1E 2-1/2” x 3” Conduit Adapter for 200Amp Meter Base

Temporary Services
Q-2A Metered or Un-Metered Temporary Service Requirements Overhead Feed
Q-2B Metered or Un-Metered Temporary Service Requirements Underground Area
Q-2C Alternate Temporary Service Installation Guidelines

Overhead Services
Q-3A New and/or Altered Through Roof Mast Installation 200Amp or Less
Q-3B New and/or Altered Below Roof Mast Installation 200Amp or Less
Q-3C Overhead Feed Single Phase Meter Base 200Amp, 240/480 Volt 3-Wire
Q-3D Overhead Feed 200Amp or Less Meter Base, Single Phase, 120/240 Volt, Residential
Q-3E Overhead Feed 200Amp or Less Meter Base, Network, 120/208 Volt, Residential
Q-3F Overhead Feed 200Amp Meter Base, Single Phase, 120/240 Volt, Non-Residential
Q-3G Overhead Feed 200Amp Meter Base, Network, 120/208 Volt, Non-Residential
Q-3H Overhead Feed 320Amp Meter Base, Single Phase, 120/240 Volt
Q-3J Overhead Feed 200Amp Meter Base, Three Phase, 600 Volt, Non-Residential
Q-3K 200 Amp Service, Overhead Source for either Underground to Overhead Feed to Manufactured Home
Q-3L Meter Pole Service Overhead Source with Receptacle
Q-3M Overhead Feed, Underground Load, Pole Mounted 200Amp Socket, Three Phase, 4-wire
**Underground Services**

- **Q-4A** Service Entrance Surface Mounted - Underground 400Amp or Less
- **Q-4B** Service Entrance Flush Mounted - Underground 400Amp or Less
- **Q-4C** Underground Feed 200Amp Meter Base Single Phase 120/240 Volt, Residential
- **Q-4D** Underground Feed 200Amp Meter Base, Network, 120/208 Volt, Residential
- **Q-4E** Underground Feed 200Amp Meter Base, Single Phase, 120/240 Volt, Non-Residential
- **Q-4F** Underground Feed 200Amp Meter Base, Network, 120/208 Volt, Non-Residential
- **Q-4G** Underground Feed 320Amp Meter Base, Single Phase, 120/240 Volt, Residential or Commercial
- **Q-4H** Underground Feed 200Amp Meter Base, Three Phase, 600 Volt, Non-Residential
- **Q-4J** Underground Service 200Amp for Metered Pedestal
- **Q-4K** 200Amp Component Meter Pedestal (Mounted on Uni-Strut)
- **Q-4L** 320Amp Component Meter Pedestal (Mounted on Uni-Strut)
- **Q-4M** Pre-Approved Meter Bases

**Current Transformers**

- **Q-5B** Current Transformer (CT) Compartment Requirements for Residential Services 201-800 Amps, (2 Pages)
- **Q-5E** Current Transformer (CT) Compartment Requirements for Commercial Three Phase Services 201-800 Amps (2 Pages)
- **Q-5F** Current Transformer (CT) Compartment Requirements for Commercial Three Phase Services 1200-2500 Amps (2 Pages)
- **Q-5G** Self Supported CT Meter Pedestal with CT’s installed in Secondary Side of District Transformer
- **Q-5H** Current Transformer Compartment for Switch gear 1000-3000 Amp

**Transformer Pads and Clearances**

- **Q-6C** Installation Clearances for Commercial and Residential Transformers
- **UG6-C** Transformer Pad Details 500 kVA and Below Three Phase (2 Pages)
- **UG6-C2** Transformer Pad Details 750 kVA and Above Three Phase Pad (2 Pages)
- **Q-6G** 600V Termination Cabinet Guideline

**Trenching**

- **Q-7A** Trenching and Conduit Details for Typical Underground Service Installation, from Pad Mount Transformer
- **Q-7B** Trenching and Conduit Details for Typical Underground Service Installation, from Overhead Transformer
Net Metering Services
Q-8A Net Metering Typical One Line Schematic

Fiber Services
Q-9A Installation Practices for Customer Fiber Services

Work Area Clearances
Q-10A Work Area Clearance
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Phase</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>120/240</td>
<td>3</td>
<td>200 Res / Comm</td>
<td>4</td>
<td>A</td>
<td>2</td>
<td>6</td>
<td>C/Test SW</td>
</tr>
<tr>
<td>120/240</td>
<td>3</td>
<td>320 Res / Comm</td>
<td>4</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>240/480</td>
<td>3</td>
<td>200</td>
<td>4</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Network</td>
<td>120/208</td>
<td>3</td>
<td>200</td>
<td>5</td>
<td>B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Three Phase</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>208/120</td>
<td>4</td>
<td>200</td>
<td>7</td>
<td>D</td>
<td>3</td>
<td>13</td>
<td>E/Test SW</td>
</tr>
<tr>
<td>240/120</td>
<td>4</td>
<td>200</td>
<td>7</td>
<td>D</td>
<td>3</td>
<td>13</td>
<td>E/Test SW</td>
</tr>
<tr>
<td>240/480</td>
<td>4</td>
<td>200</td>
<td>7</td>
<td>D</td>
<td>3</td>
<td>13</td>
<td>E/Test SW</td>
</tr>
<tr>
<td>480/277</td>
<td>4</td>
<td>200</td>
<td>7</td>
<td>D</td>
<td>3</td>
<td>13</td>
<td>E/Test SW</td>
</tr>
</tbody>
</table>

**Notes:**

1. Manual block by pass required on all 200 Amp non-residential installations, and all 320 Amp installations.
2. No automatic, plunger, or lever type by pass devices allowed.
3. Meters are required to be mounted external to the building. Exceptions need to be approved by District Engineering and Metering Departments prior to construction.
4. Sockets A,B,D, will be provided by the customer.
5. Sockets C & E will be provided by the District for the customer to install.
6. The meter base for single phase, two wire service, shall be the same as a single phase, three wire service, with the upper right terminal tied to the neutral. Three phase, three wire service shall be metered as a three phase four wire service.
7. Socket B will have the 9 o'clock terminal position tied to the neutral.
8. For pedestal details see Q-4K and Q-4L.
9. Ringless meter base not allowed.
### Service Conduit & Requirements

#### Residential UG Services

<table>
<thead>
<tr>
<th>Service Size, Type</th>
<th>Meter Base Type</th>
<th>Minimum Conduit Size, Type</th>
<th>Maximum Service Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>200A</td>
<td>Self Contained</td>
<td>3&quot; SCH 40</td>
<td>200 FT *</td>
</tr>
<tr>
<td>400A, Over</td>
<td>Self Contained</td>
<td>3&quot; SCH 40</td>
<td>250 FT *</td>
</tr>
<tr>
<td>400A</td>
<td>CT Contained</td>
<td>4&quot; SCH 40</td>
<td>250 FT *</td>
</tr>
</tbody>
</table>

#### Commercial UG Services

<table>
<thead>
<tr>
<th>Service Size, Type</th>
<th>Meter Base Type</th>
<th>Minimum Conduit Size, Type</th>
<th>Maximum Service Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>200A, 1Ø</td>
<td>Self Contained</td>
<td>3&quot;, SCH 40</td>
<td>200 FT *</td>
</tr>
<tr>
<td>400A, 1Ø</td>
<td>Self Contained</td>
<td>3&quot;, SCH 40</td>
<td>250 FT *</td>
</tr>
<tr>
<td>400A, 1Ø</td>
<td>CT Meter</td>
<td>See Note 3</td>
<td>See Note 3</td>
</tr>
<tr>
<td>Over 400A, 1Ø</td>
<td>CT Meter</td>
<td>See Note 3</td>
<td>See Note 3</td>
</tr>
<tr>
<td>200A, 3Ø</td>
<td>Self Contained</td>
<td>3&quot;, SCH 40</td>
<td>3&quot;, SCH 40</td>
</tr>
<tr>
<td>Over 200A, 3Ø</td>
<td>CT Meter</td>
<td>See Note 4</td>
<td>See Note 4</td>
</tr>
</tbody>
</table>

* Distances are based on measurements from the padmount transformer, subtract 50 feet from pole mount transformer installations.

### Notes:

1. Locate meter base so the conduit run does not exceed maximum allowable length per this standard where it applies, or have more than 3 bends totaling 270 degrees. (This 270 degrees shall include 1-90 degree sweep at the meter base and one at the transformer or pole).
2. Details shown are minimum District requirements and are not intended to depict the Washington State Labor and Industries requirements.
3. Customer owned and installed service wires - not to exceed 500 kcm copper or aluminum and not to exceed 4 sets of conductors.
4. Customer owned and installed service wires on large 3 phase commercial projects. Not to exceed 750 kcm copper or aluminum and not to exceed 6 sets of conductors.
1.) Before permanent service is connected raised letters and numbers (1" min. height) or engraved placard as approved by the District must be permanently attached to the meter base, apartment door and apartment panel. No adhesive non-raised letters or numbers allowed.
1. Permanent service will not be connected without proper meter base identification, refer to Q-1C for meter base identification requirements.

2. Access to supply conductors must be capable of being sealed by the utility.

3. District approval must be obtained in writing for any of the following:
   A. If any disconnect is installed on the delivery side of meters.
   B. If meter installation is over 4' from the front, on the side of the building.
   C. If other than outside installation.

4. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries Requirements.
Notes:

1. Reducer (supplied by customer) 3" x 2-1/2" x 8" shall not have sharp internal edges.
2. Carlon adapters are supplied by customer and must be pre-approved to meet District requirements.
Notes:

1. Application for temporary service is required by the District before service will be connected.
2. Metered temporary power installations **1 Year Maximum**.
3. Any service that exceeds the 50' maximum length must be reviewed by a District engineer on a case by case basis.
4. Customer's temporary service pole may be of 4" x 4" solid lumber or two 2" x 4".
5. Laminated together 4" x 4" overall will be the minimum acceptable.
6. Braces will consist of 2" x 4" lumber with stakes solidly driven into the ground and firmly attached to braces.
7. Temporary service arrangement and equipment to be "Approved For Service" by the state electrical inspector before the District will connect service.
8. The customer shall notify the District as to when service is requested.
9. Meter base may be required for 120 day temporary installations.
10. Meter base will be required for RV's, pumps, job shacks, and all commercial projects or similar applications.
11. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries requirements.
12. Prior to any digging call UDIG or 811 for free cable locate prior to digging.
13. All clearances must meet or exceed the National Electrical Safety Code.

Metered or Un-Metered
Temporary Service Requirements
Overhead Services
Service equipment to be installed by customer. Location must avoid conflict with District equipment.

2" x 4" Min.

4" x 4" Min.

Meter Base

2" x 4" Stakes

45" Typ.

3'-6" Min.

5' Max.

1'-6" Min.

2' Min.

3' Min.

Notes:

1. Application for temporary service is required by the District before service will be connected.
2. Metered temporary power installations 1 year maximum.
3. Prior to any digging, call UDIG or 811 for free cable locate prior to digging.
4. The customer shall provide all trench and backfill to the transformer, pedestal or hand hole. Contact District representative prior to trenching, for coordination.
5. The customer shall provide sufficient conductor to reach transformer plus 6 feet.
6. Temporary service arrangement and equipment to be "Approved For Service" by the State Electrical Inspector before the District will connect service.
7. The customer shall notify the District a minimum of 2 weeks prior to when service is required.
8. The District will install customer owned wire in transformer box and make connection.
9. Temporary power connections shall not be made through permanent service stub-outs.
10. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries requirements.
11. One year renewal limit without re-inspection and approval by State Labor and Industries.
Customer to purchase and install 3" Sch. 40, 36" radius sweeps to replace WPUD 90° sewer elbow.

Example of a stub-up.

1. Replace 90° sewer elbow with 3 inch, 36"R, Sch. 40 PVC 90° sweep.
2. Install conduit run from hand hole box area to future meter at a home/building.
3. Install hand hole box and connect both conduit runs.
4. Direct bury temp wires to hand hole box entry way and prepare wire for temp service.

Notes:
1. Hand hole may be picked up at the District's warehouse located at 1500 S. Ely St. or a purchased approved equivalent and installed, after permanent service application is received by engineering.
2. Hand hole and all sweeps to be installed by customer prior to energizing a temporary service.
No. 6 copper weld guys, or 3/4" rigid conduit brace per detail weld guys, or 3/4"

Cyclone fence collars 3/8" min. bolt size or equal. 3/4" rigid galvanized conduit brace with ends flattened and drilled

Brace/roof connection will have sharp bend with no radius

1/4" x 4" x 4" Galvanized washer

Secure conduit to rafter with u-bolt

Optional Bracing

Service conductor
Mast

Plan

Galvanized thimble and guy clamp

Optional Bracing

Dead End insulator supplied by customer

Minimum "2 x 6" solid blocking between rafters (at service lead-in) and wallplates drilled for steel conduit

2" x 4" Installed solid between studs and rough siding

2" rigid steel conduit

2" Dia., 5/16" u-bolts for all conduit fasteners length as required

Interior finish / Stud /

Meter

Cyclone fence collars 3/8" min. bolt size or equal. 3/4" rigid galvanized conduit brace with ends flattened and drilled

Brace/roof connection will have sharp bend with no radius

1/4" x 4" x 4" Galvanized washer

Secure conduit to rafter with u-bolt

Optional Bracing

Service conductor
Mast

Plan

Galvanized thimble and guy clamp

Optional Bracing

Dead End insulator supplied by customer

Minimum "2 x 6" solid blocking between rafters (at service lead-in) and wallplates drilled for steel conduit

2" x 4" Installed solid between studs and rough siding

2" rigid steel conduit

2" Dia., 5/16" u-bolts for all conduit fasteners length as required

Interior finish / Stud /

Meter

Notes:

1. See Washington State Department of Labor and Industries WAC 296-46B-23028.
2. Service drop must maintain 12 feet minimum clearance above grade at lowest point. See National Electrical Safety Code rule 232.
3. See WAC code regarding recessed Meter Base Installations.

Elevation

New and/or Altered Service Through Roof
200 Amp or Less

REV BY: JWW
REV DATE: 10/01/13
SHT. 1 of 1
REV No: 1
ENG.
DRAW DATE: 02/28/01
DRAWN BY: JAD
Q-3A
Notes:

2. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries requirements.
Notes:

1. Customer shall contact Customer Engineering before installation.
2. Customer shall supply and install meter base, mast, and conductors as shown above.
3. The meter base must be installed (plumb and solid) and bonded to customer neutral per the National Electric Code.
4. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries requirements.
5. Ringless meter base not allowed.
6. For pre-approval or equipment meter base, see document Standard Q-4M.

Service entrance conductors, furnished and installed by customer per the NEC Code.

Customer to furnish & install conduit per the NEC code.

Overhead Feed
Single Phase Meter Base
200 Amp, 240/480 Volt 3 Wire
Non-Typical

Q-3C
Notes:

1. Customer shall supply and install meter base.
2. Lever by-pass not allowed, manual block by-pass allowed under Q-3F,G,H,J.
3. The meter base must be installed (plumb and solid) and bonded to customer neutral per the National Electric Code.
4. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries requirements.
5. Ringless meter base not allowed.
6. For pre-approval or equipment meter bases, see document Standard Q-4M.
Conduit to be furnished and installed by customer per the NEC code.

This lug is to be in 9 o'clock position only, and tied to neutral.

Service entrance conductors furnished and installed by customer per the NEC code.

2 1/2" Knockouts

Notes:

1. Customer shall supply and install meter base.
2. Lever by-pass not allowed, manual block by-pass allowed on District Standards Q-3F, G, H & J.
3. The meter base must be installed plumb and solid, and bonded to customer neutral per the National Electric Code.
4. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries requirements.
5. Ringless meter base not allowed.
6. For pre-approval or equivalent meter bases, see document Standard Q-4M.
Conduit to be furnished and installed by customer per the NEC code

Service entrance conductors furnished and installed by customer per the NEC code

Block type by-pass stud for by-pass clip (TYP.)

Notes:

1. Meter base shall be supplied and installed (plumb & solid) by the customer.
3. The meter base must be bonded to the customer neutral per the National Electric Code.
4. No conduit type fittings allowed in conduit containing un-metered conductors.
5. Ringless meter base not allowed.
6. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries requirements.
7. For pre-approval or equipment meter bases, see document Standard Q-4M.
Notes:

1. Meter base shall be supplied and installed (plumb & solid) by the customer.
3. The meter base must be bonded to the customer neutral per the National Electric Code.
4. No conduit type fittings allowed in conduit containing un-metered conductors.
5. Ringless meter base not allowed.
6. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries requirements.
7. For pre-approval or equipment meter bases, see document *Standard Q-4M*.

Conduit to be furnished and installed by customer per the NEC code

The fifth jaw is required in the 9 o'clock position and tied to the neutral

Service entrance conductors furnished and installed by customer per the NEC code

Block type by-pass stud for by-pass clip (TYP.)

Notes:

1. Meter base shall be supplied and installed (plumb & solid) by the customer.
3. The meter base must be bonded to the customer neutral per the National Electric Code.
4. No conduit type fittings allowed in conduit containing un-metered conductors.
5. Ringless meter base not allowed.
6. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries requirements.
7. For pre-approval or equipment meter bases, see document *Standard Q-4M*.

**Overhead Feed**

**200 Amp Meter Base**

Network 120/208 Volt

Non-Residential
Notes:

1. Doubling of wires allowed in factory provided, UL approved connectors, only when conductor type and size are the same.
2. Meter base shall be supplied and installed (plumb & solid) by the customer.
3. No conduit type fittings allowed in conduit containing un-metered conductors.
4. Lever by-pass not allowed, block by-pass only.
5. The meter base must be bonded to the customer neutral per the National Electric Code.
6. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries requirements.
7. Ringless meter base not allowed.
8. For pre-approval or equipment meter bases, see document Standard Q-4M
Conduit to be furnished and installed by customer per the NEC code

Service entrance conductors furnished and installed by customer per the NEC code

For delta service power conductor (wild leg)

Bond to neutral

Block type by-pass stud for by-pass clip (TYP.)

2 1/2" Knockouts

Front View

Bottom View

Notes:

1. Meter base shall be supplied and installed (plumb & solid) by the customer.
3. The meter base must be bonded to the customer neutral per the National Electric Code.
4. No conduit type fittings allowed in conduit containing un-metered conductors.
5. Lever by-pass not allowed, block by-pass only.
6. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries requirements.
7. For pre-approval or equipment meter bases, see document **Standard Q-4M**.
8. Power conductor (wild leg, color coded orange).
9. Ringless meter base not allowed.

Overhead Feed
200 Amp Meter Base
Three Phase
Non-Residential
Leader length 18" min.

Conduit must be even with top of pole

Weatherhead height per the National Electric Code requirement

Deadend insulator supplied by customer. Service attachment must be below weatherhead.

Provided And Installed By Customer

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Weatherhead</td>
</tr>
<tr>
<td>2</td>
<td>Conduit</td>
</tr>
<tr>
<td>3</td>
<td>Meter base</td>
</tr>
</tbody>
</table>

Provided And Installed By District

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Meter</td>
</tr>
<tr>
<td>5</td>
<td>Pole</td>
</tr>
</tbody>
</table>

200A combination meter base disconnect rain tight

Overhead Feed To Underground Feed

Overhead Feed To Overhead Feed

Notes:

1. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries requirements. Wiring must be approved for service by state inspector.
2. The meter base must be bonded to customer neutral per the National Electric Code.
3. Refer to standard Q-1C for numbering practice in mobile home and RV parks.
4. Ringless meter base not allowed
Conduit must be even with top of pole

Lead length 18" minimum

Deadend insulator supplied by customer. Service attachment must be below weatherhead.

Notes:
1. The meter base must be bonded to customer neutral per the National Electric Code.
2. Refer to District standard Q-1C for numbering practice in mobile home and RV parks.
3. Ringless meter base not allowed.
Service entrance conductors furnished and installed by customer

For delta service power conductor (wild leg).

Bond to neutral

Socket Wiring Diagram

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Weatherhead</td>
</tr>
<tr>
<td>2</td>
<td>Conduit</td>
</tr>
<tr>
<td>3</td>
<td>Meter base</td>
</tr>
</tbody>
</table>

Provided And Installed By District

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Meter</td>
</tr>
<tr>
<td>5</td>
<td>Pole</td>
</tr>
</tbody>
</table>

Notes:

1. Line conductors, color code black.
2. Power conductor (wild leg), color coded orange.
3. Neutral conductor must be color coded white.
4. No conduit type fittings allowed in conduit containing un-metered conductors.
5. The meter base must be bonded to the customer neutral per the National Electric Code.
7. Lever by-pass or safety socket style not allowed.
8. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries requirements.
9. Ringless meter base not allowed.
Notes:

1. No conduit type fittings will be allowed in the conduit containing the District's un-metered conductors.
2. The District's service conductors will terminate at the meter socket line terminals.
3. The meter base must be bonded to customer neutral per the National Electric Code.
4. The 320 Amp meter base is for single phase installation only.
5. For trench details, see District standards Q-7A, Q-7B.
6. For meter base details, see District standards. Q-4C, D, E, F, G, & H.
7. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries requirements.
8. Ringless meter base not allowed.
Notes:

1. No conduit type fittings will be allowed in the conduit containing the District's un-metered conductors.
2. The District's service conductors will terminate at the meter socket line terminals.
3. The meter base must be bonded to customer neutral per the National Electric Code.
4. The 320 Amp meter base is for single phase installation only.
5. For trench details, see district specification Q-7A.
6. For meter base details, see District standards Q-4C, D, E, F, G, & H.
7. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries requirements.
8. Ringless meter base not allowed.
District service connectors

Do not use knock-outs on this side due to conflicts with District conductors.

3" conduit may require adapter see Q-1E

District service conductors
#4/0 AL furnished and installed by the District

2-1/2" Min Knock-Out

Notes:

1. Meter base shall be supplied and installed (plumb and solid) by the customer.
2. Lever by-pass not allowed, manual block by-pass allowed under District standard Q-4E.
3. The meter base must be bonded to the customer neutral per the National Electric Code.
4. The District requires that all services 200 Amp and below (self-contained) use meter sockets rated for 200 Amp continuous duty.
5. Meter base must have lugs which accept #4/0 aluminum conductors.
6. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries requirements.
7. For pre-approval or equipment meter bases, see document Standard Q-4M.
8. Ringless meter base not allowed.
Notes:

1. Meter base shall be supplied and installed (plumb and solid) by the customer.
2. Lever by-pass not allowed, manual block by-pass allowed under Q-4F.
3. The meter base must be bonded to the customer neutral per the National Electric Code.
4. The District requires that all services 200 Amp and below (self-contained) use meter sockets rated for 200 Amp continuous duty.
5. Meter base must have lugs which accept #4/0 aluminum conductors.
6. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries requirements.
7. For pre-approval or equipment meter bases, see document Standard Q-4M.
8. Ringless meter base not allowed.
Block type by-pass stud for by-pass clip (TYP.)

Do not restrict access to this area

3" rigid conduit furnished and installed by the customer

District service conductors #4/0 AL furnished and installed by the customer

3" Min. Knock-Out

Bottom View

Notes:
1. Meter base shall be supplied and installed (plumb and solid) by the customer.
3. Lever by-pass Or Safety Socket Style Not Allowed.
4. The District requires that all services 200 Amp and below (self-contained) use meter sockets rated for 200 Amp continuous duty.
5. Meter base must have lugs which accept #4/0 aluminum conductors.
6. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries requirements.
7. For pre-approval or equipment meter bases, see document Standard Q-4M.
8. Ringless meter base not allowed.
The fifth lug is required in the 9 o'clock position and tied to the neutral.

Block type by-pass stud for by-pass clip (TYP.)

Do not restrict access to this area

3" rigid conduit furnished and installed by the customer

District service conductors #4/0 AL furnished and installed by the District

2 1/2" Min. Knock-Out

Notes:
1. Meter base shall be supplied and installed (plumb and solid) by the customer.
3. Lever type by-pass or safety socket style not allowed.
4. The meter base must be bonded to the customer neutral per the National Electric Code.
5. The District requires that all services 200 Amp and below (self-contained) use meter sockets rated for 200 Amp continuous duty.
6. Meter base must have lugs which accept #4/0 aluminum conductors.
7. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries requirements.
8. For pre-approval or equipment meter bases, see document Standard Q-4M.
9. Ringless meter base not allowed.
3" Sch. 40 PVC conduit furnished and installed by customer. Customer must use center knock-out refer to District standard Q-1B

3" Knock Outs

District service conductors 350 kcm AL, furnished and installed by the District

Notes:
1. Meter base shall be supplied and installed (plumb & solid) by the customer.
2. The meter base must be bonded to the customer neutral per the National Electric Code.
3. Lever by-pass not allowed, block by-pass only.
4. Details shown are minimum District requirements and are not intended to depict Washington State Department of Labor and Industries requirements.
5. For pre-approval or equipment meter bases, see document Standard Q-4M.
6. Ringless meter bases not allowed.
Notes:

1. Meter base shall be supplied and installed (plumb & solid) by the customer.
3. Lever by-pass not allowed.
4. The meter base must be bonded to the customer neutral per the NEC.
5. The District requires that all services 200 Amp and below (self-contained) use meter sockets rated for 200 Amp continuous duty.
6. Meter base must have lugs which accept 4/0 aluminum conductors.
7. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries requirements.
8. For pre-approval or equipment meter bases, see document Standard Q-4M.
9. Ringless meter base not allowed.
10. Power conductor (wild leg), color coded orange.
Notes:

1. The disconnect distance between the manufactured (or mobile) home must meet the National Electric Code requirements.
2. Line termination lugs must accept #4/0 aluminum conductors.
3. Set pedestal plumb to finished grade. Set in concrete prior to District installation of service conductors.
4. Multi-unit mobile home parks and multi-unit buildings must have address identification permanently attached to the front of the meter base, per District standard Q-1C, before service will be connected.
5. The meter base must be bonded to the customer neutral per the National Electric Code.
6. Customer must provide all trench and backfill per District standard Q-7A or Q-7B.
7. Customer must provide all conduit per standard Q-1B.
8. Meter socket to be rated for 200 Amp continuous.
9. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries requirements.
10. Ringless meter base not allowed.
Notes:

1. The minimum distance between the pedestal and mobile home must meet the National Electric Code requirements.
2. Set pedestal plumb to finished grade. Set in concrete prior to the District installing service conductors.
3. Multi-unit mobile home parks and multi-unit buildings must have address identification permanently attached to the front of the meter base, per District standard Q-1C, before service will be connected.
4. The meter base must be bonded to the customer neutral per the National Electric Code.
5. Customer must provide all trench and backfill per District standard Q-7A or Q-7B.
6. Customer must provide all conduit per standard Q-1B.
7. The meter socket will be rated for 200A continuous duty.
8. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries requirements.
9. Ringless meter base not allowed.
**Notes:**

1. Line termination lugs must accept 350 kcm aluminum conductors.
2. Set pedestal plumb to finished grade set in concrete prior to District installation of service conductors.
3. All vertical structural components must be adequately encased in concrete.
4. The meter base must be bonded to the customer neutral per the National Electric Code.
5. Customer must provide all trench and backfill per District standard Q-7A or Q-7B.
6. Customer must provide all conduit per District standard Q-1B.
7. The meter socket will be rated for 320 Amp continuous per District standard Q-4G.
8. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries requirements.
9. Ringless meter base not allowed.
<table>
<thead>
<tr>
<th><strong>Q-3D</strong></th>
<th><strong>Q-4C</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Approved Meter Bases</td>
<td>Pre-Approved Meter Bases</td>
</tr>
<tr>
<td>B-Line #U204SSMS21</td>
<td>B-Line U264</td>
</tr>
<tr>
<td>Milbank #U4517-DL-M4</td>
<td>Milbank 4015-0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Q-3E</strong></th>
<th><strong>Q-4D</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Approved meter bases and 5th jaw kits</td>
<td>Pre-Approved Meter Bases</td>
</tr>
<tr>
<td>B-Line #U204SSMS21</td>
<td>B-Line U204-MSCD</td>
</tr>
<tr>
<td>5th jaw kit #50365</td>
<td>W/50365 (5th Jaw Kit)</td>
</tr>
<tr>
<td>Milbank #U4517-DL-M4</td>
<td>Milbank #U4015-0</td>
</tr>
<tr>
<td>5th jaw kit #T8K2 - Round</td>
<td>W/K5T (5th Jaw Kit)</td>
</tr>
<tr>
<td>5th jaw kit #K5T - Square</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Q-3F</strong></th>
<th><strong>Q-4E</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Approved Meter Bases</td>
<td>Pre-Approved Meter Bases</td>
</tr>
<tr>
<td>B-Line U264 Preferred</td>
<td>B-Line U264</td>
</tr>
<tr>
<td>Milbank U3514-XL</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Q-3G</strong></th>
<th><strong>Q-4F</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Approved Meter Bases</td>
<td>Pre-Approved Meter Bases</td>
</tr>
<tr>
<td>B-Line U264 Preferred W/ #50365 (5TH Jaw Kit)</td>
<td>B-Line U264</td>
</tr>
<tr>
<td>Milbank U3514-XL W/ #5T8KS (5TH Jaw kit)</td>
<td>#50365 (5TH Jaw Kit)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Q-3H</strong></th>
<th><strong>Q-4G</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Approved Meter Bases</td>
<td>Pre-Approved Meter Bases</td>
</tr>
<tr>
<td>B-Line 324N Preferred</td>
<td>B-Line 324C Milbank U3548-X</td>
</tr>
<tr>
<td>Milbank U3548-K</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Q-3J</strong></th>
<th><strong>Q-4H</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Approved Meter Bases</td>
<td>Pre-Approved Meter Bases</td>
</tr>
<tr>
<td>B-Line U267 Preferred</td>
<td>B-Line U267</td>
</tr>
<tr>
<td>Milbank 127TB</td>
<td>Milbank 127TB</td>
</tr>
</tbody>
</table>
Hinges on CT cabinet must be on the side opposite the meter base.

Mounting base for current transformers (by customer, see table on Sh.t.2)

Conduit(s) to transformer

Final Grade
Pre-approved Single Phase Current Transformer Cabinet & Mounting Bases

<table>
<thead>
<tr>
<th>CT Service Type</th>
<th>Cabinet Dimensions</th>
<th>CT Cabinets</th>
<th>CT Mounting Bases</th>
<th>EUSERC Drawing #</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Width</td>
<td>Height</td>
<td>Depth</td>
<td>Cooper B-Line Part #</td>
</tr>
<tr>
<td>Service Size</td>
<td>Number of Load Conductors</td>
<td>or</td>
<td>or</td>
<td>or</td>
</tr>
<tr>
<td>201-400A</td>
<td>1-2</td>
<td>24&quot; min</td>
<td>48&quot;</td>
<td>11&quot;</td>
</tr>
<tr>
<td>201-800A</td>
<td>1-4</td>
<td>36&quot;</td>
<td>48&quot;</td>
<td>11&quot;</td>
</tr>
</tbody>
</table>

Notes:

1. Current transformer cabinet and CT mounting base to be supplied by the customer.
2. Current transformers to be supplied and installed by District.
3. Estimated Load must be at least 25 KVA for CT metering to facilitate additional load growth and the customer's request appears reasonable, customer must install Current Transformer Enclosure for the CT metering equipment.
4. The CT mounting base shall have a 50,000 Amp minimum fault current rating.
5. The cabinet will be raintight, with a sealable, hinged, cover.
6. District provides the service conductors to transformer on residential services.
7. The maximum number of load conductors per phase will be limited to four without prior District approval.
8. Customer shall ensure the load conductors are compatible with the connectors on the EUSERC 328B style CT mounting base. All mechanical cable termination blocks shall be provided by the customer.
9. The customer shall make up and terminate the load side connections in the CT compartment.
10. The customer service entrance conduits must exit the enclosure on the load side of the CT mounting base. The District will not allow customer conductors or conduit in the District's terminating and pull space.
11. The meter base shall be provided by District and installed by customer.
12. Bonding must be in accordance with the current National Electric Code requirements.
13. Meter sockets shall be installed within 24" of Non-Hinge side of CT compartment and not be located above CT cans due to safety of working in front of the energized equipment.
14. Maximum conductor size allowed is 500 kcm copper or aluminum.
15. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries requirements.
Hinges on CT cabinet must be on the side opposite the meter base.

Mounting base for current transformers (by customer, see table on Sh. 2)

Conduit(s) to transformer

Final Grade

Source

Load

1" Conduit

2' Min.

6' Max. 4' Min.

8" Min. 2' Max.

6'6" Max. to top of ct compartment

Conduit(s) to transformer

Current Transformer (CT)
Compartment Requirements for Three Phase Services
201-800 Amps
Pre-approved Three Phase Current Transformer Cabinet & Mounting Bases

<table>
<thead>
<tr>
<th>CT Service Type</th>
<th>Cabinet Dimensions</th>
<th>CT Cabinets</th>
<th>CT Mounting Bases</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Width   Height   Depth</td>
<td>Cooper B-Line Part #</td>
<td>Milbank Part #</td>
</tr>
<tr>
<td>201-400A</td>
<td>30&quot;    48&quot;     11&quot;</td>
<td>304811HRTCT</td>
<td>CT304811-HC</td>
</tr>
<tr>
<td>201-800A</td>
<td>36&quot;    48&quot;     11&quot;</td>
<td>364811HRTCT</td>
<td>CT364811-HC</td>
</tr>
</tbody>
</table>

Notes:

1. Current transformer cabinet and CT mounting base to be supplied and installed by the customer.
2. Current transformers to be supplied and installed by District.
3. Estimated Load must be at least 25 KVA for CT metering to facilitate additional load growth and the customer request appears reasonable, customer must install Current Transformer Enclosure for the CT metering equipment.
4. Estimated load must be at least 50 KVA for secondary compartment CT metering, specifically services which are fed by a District 45 KVA transformer must be metered within a Current Transformer Enclosure.
5. Estimated load must be at least 100 KVA for can be metered in the secondary compartment the transformer. CT metering, specifically for services which are fed by a District 75 KVA or smaller transformer shall be metered within a Current Transformer Enclosure.
6. The CT mounting base shall have a minimum 50,000A fault current rating.
7. The cabinet will be raintight, with a sealable, hinged, cover.
8. The customer shall provide and install the service conductors to the District transformer.
9. The maximum number of conductors per phase will be limited to four without prior District approval.
10. Customer shall ensure all the conductors are compatible with the connectors on the EUSERC 329B style CT mounting base. All mechanical cable termination blocks shall be provided by the customer.
11. The customer shall make up and terminate all connections in the CT compartment.
12. The customer service entrance conduits must exit the enclosure on the load side of the CT mounting base. The District will not allow customer conductors or conduit in the District's terminating and pull space.
13. The meter base shall be provided by the District and installed by the customer.
15. Meter sockets shall be installed within 24" of Non-Hinged side of CT compartment and not be located above CT cans due to safety of working in front of the energized equipment.
16. Maximum conductor size allowed is 750 kcm copper or aluminum.
17. Details shown are minimum district requirements and are not intended to depict Washington State Labor and Industries requirements.
Bus Bar Kit to be installed by customer

District supplied Ct's

Conduit(s) to transformer

8" Min. 2' Max.

4' Min. 6' Max.

1" Conduit

8" Max. to top of CT compartment

Final Grade

Current Transformer (CT)
Compartment Requirements for Commercial Three Phase Services
1200-2500 Amps
## Pre-approved Three Phase Commercial Current Transformer Cabinet & Mounting Bases

<table>
<thead>
<tr>
<th>Service Size</th>
<th>Number of Load Conductors</th>
<th>Cabinet Dimensions</th>
<th>Erickson Bulletin Numbers</th>
<th>Erickson Catalog Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Width</td>
<td>Height</td>
<td>Depth</td>
</tr>
<tr>
<td>1200A</td>
<td>3</td>
<td>55&quot;</td>
<td>64&quot;</td>
<td>15&quot;</td>
</tr>
<tr>
<td>1600A</td>
<td>4</td>
<td>61&quot;</td>
<td>64&quot;</td>
<td>15&quot;</td>
</tr>
<tr>
<td>2000A</td>
<td>5</td>
<td>65&quot;</td>
<td>64&quot;</td>
<td>15&quot;</td>
</tr>
<tr>
<td>2500A</td>
<td>7</td>
<td>65&quot;</td>
<td>64&quot;</td>
<td>15&quot;</td>
</tr>
</tbody>
</table>

* INCLUDES SIDE GUTTER
** MUST CONTACT BENTON PUD PRIOR TO PURCHASE (NON-STANDARD)

### Notes:

1. Current transformer cabinet and CT mounting base to be supplied and installed by the customer.
2. Current transformers to be supplied and installed by the District.
3. The CT mounting base shall have a 85,000A minimum fault current rating.
4. The cabinet will be raintight, with a sealable, hinged, cover.
5. The customer shall provide and install the service conductors to the District transformer.
6. The maximum number of source conductors per phase will be limited to six without prior District approval.
7. Customer shall ensure all load conductors are compatible with the connectors on the EUSERC 3288 Style CT mounting base. All mechanical cable termination blocks shall be provided by the customer.
8. The cabinet shall be made up and terminate all connections in the CT compartment.
9. The customer service entrance conduits must exit the enclosure on the load side of the CT mounting base, unless written permission is obtained from Engineering and the Meter Shop.
10. The District will not allow customer conductors or conduit in terminating and pull space.
11. The meter base shall be provided by the District and installed by the customer.
12. Bonding must be in accordance with latest issue of the National Electrical Code (Article 250 grounding).
13. Maximum conductor size allowed is 750 kcm copper or aluminum.
14. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries requirements.
15. Customer will install bus bar and CT perch for window style CT.
**NOTE:**
Install pedestal to avoid interference when transformer door is opened.

---

**Notes:**

1. The District will provide the pre-fabricated meter base and frame. Contractor install pedestal in concrete, plumb and sound, and to finished grade as shown.
2. Refer to transformer pad detail, Q-6A, or Q-6B.
3. Customer will supply and install the 1" conduit for the meter.
4. The meter must be located so the metering circuit conduit run does not exceed 25' in length or contain more than 4 bends totaling 360 degrees.
5. No conduits or junctions are allowed in metering circuit conduit.
6. Secondary circuit conductors: maximum number of wire-6 sets of 750 kcm copper or aluminum. Contact the District if in need of additional sets.
7. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries requirements.
Neutral bus

Alternate location of neutral bus

Notes:
1. Contact Engineering regarding all switchgear installation.
2. Busways must remain in position when the removable bus link "B" is removed.
3. Set the direction of feed from the top. No other conductors shall pass through this compartment.
4. Bus clearance dimension measured to inside edge of the compartment access opening.
5. CT's to be provided by District.
6. Reference EUSERC 322.
7. Customer to install and terminate all conductors.
8. Current transformers to be supplied and installed by the District.
Notes:
1. All dimensions are minimum
2. No obstructions are allowed over transformer.
3. Refer to District planting guide for landscaping.
4. Installation must not violate WAC-296-46B-450 transformers.
Transformer Pad Details
500 kVA & Below
Three Phase Pad

(Secondary cable area) Conduit and wire customer supplied and installed by District when required by District, set CT's in secondary compartment of transformer.

Primary cable area. Conduit and ground wire District supplied, customer installed (see Note 5).

Plan View
Concrete Transformer Pad by Customer

1/2" Radius on all Exposed pad edges

4" 36" Radius PVC sweep District supplied, customer installed. (See Note 5)

Section A-A

1) Required District supplied customer installed (See Note 5)

(3) Ground loop

#3 Rebar @ 6" on center Both ways

(2) Required District supplied customer installed (See Note 5)

District supplied, customer installed

(See Note 5)

Refer to Q-5G for 1" conduit installed by customer

4" 36" Radius PVC sweep

District supplied, customer installed. (See Note 5)
<table>
<thead>
<tr>
<th>Item</th>
<th>Qty.</th>
<th>Description</th>
<th>Item Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>5/8&quot; x8&quot; Ground Rod</td>
<td>337381</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>4” Diameter PVC Sch. 40 36&quot; Radius Sweep</td>
<td>633651</td>
</tr>
<tr>
<td>3</td>
<td>50’</td>
<td>Wire #4 MHDB 7 Str.</td>
<td>400300</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>5/8&quot; Ground Rod Clamp</td>
<td>327100</td>
</tr>
</tbody>
</table>

Notes:
1. Ground under pad must be 95% minimum compaction.
2. Concrete shall be Portland Cement concrete, 5 sack mix, attaining 3000 P.S.I. at 28 days.
3. Top of pad shall be level and finished smooth. Surface shall not contain honeycomb or segregation.
4. Barricade traffic bollards provided and installed by customer - contact District engineering to determine location of posts. When required, bollards must not interfere with swing of transformer doors.
5. Customer to pick up 4” primary conduit sweep, 2 ground rods, and #4 Str. bare CU. ground wire from the District warehouse located at 1500 S. Ely street, Kennewick.
6. Maximum number of wire-6 sets of 750 kcm copper or aluminum. Contact the District if in need of additional sets.
7. For pad location, reference District standard Q-6C for clearance to existing structures.
(2) Required District supplied customer installed (See Note 6)

#3 Rebar @ 6" on center Both ways

Primary cable area. Conduit and ground wire District supplied, customer installed (see note 6).

1/2" Radius on all Exposed pad edges

4" 36" Radius PVC sweep District supplied, customer installed. (See Note 6)

Plan View
Concrete Transformer Pad by Customer

Section A-A

Transformer Pad Details
750 kVA & Above
Three Phase Pad

UG6-C2
UG6-C2

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty.</th>
<th>Description</th>
<th>Item Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>5/8&quot; x 8&quot; Ground Rod</td>
<td>337381</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>4&quot; Diameter PVC Sch. 40 36&quot; Radius Sweep</td>
<td>633651</td>
</tr>
<tr>
<td>3</td>
<td>50'</td>
<td>Wire #4 MHDB 7 Str.</td>
<td>400300</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>5/8&quot; Ground Rod Clamp</td>
<td>327100</td>
</tr>
</tbody>
</table>

Notes:

1. Ground under pad must be 95% minimum compaction.
2. Concrete shall be Portland cement concrete, 5 sack mix, attaining 3000 P.S.I. at 26 days.
3. Top of pad shall be level and finished smooth. Surface shall not contain honeycomb or segregation.
4. Barricade traffic bollards provided and installed by customer - contact District engineering to determine location of posts.
5. When required, bollards must not interfere with swing of transformer doors.
6. Customer to pick up 4" primary conduit sweep, 2 ground rods, and #4 Str. bare CU. ground wire from the District warehouse located at 1500 S. Ely street, Kennewick.
7. Maximum number of wire-6 sets of 750 kcm copper or aluminum. Contact the District if in need of additional sets.
8. For pad location, reference District standard Q-6C for clearance to existing structures.
Notes:

1. Termination of customer owned wire in secondary cabinet by customer.
2. Reference transformer pad details, District standard UG6-C or UG6-C2.
3. Reference CT meter base construction, District standard Q-5G.
4. Primary cable area conduit and ground wire District supplied, customer installed.
5. When required by District set CT's in secondary compartment of transformer.
6. Termination cabinet grounds shall be bonded with transformer pad grounds.
7. See UG6-C or UG6-C2 for XFMR pad details.
When stub-out exists, customer to dig a 3'W x 3'L x 3'D work pit for District use and supply a 36” radius sweep to be installed by the District.

By District  
By customer

Phone, TV  
Power Cable  
In Conduit

Gas, Water

Spoil Pile

2'

3’ Secondary

6” Min.

1’ Min. Separation

Variates

Select Backfill

Self contained meter base furnished and installed by customer

District furnished and installed meter

Customer provided trenching, backfill, and conduit

District supplied transformer or pedestal

When stub-out exists, customer will remove temporary sewer 90° and connect to existing District stub-out. If no stub-out exists see plan view above.

Notes:

1. Cover open conduit with conduit cap or cloth to seal out dirt.
2. The District will inspect and approve all trenches prior to backfill.
3. Always call U-DIG before digging UDIG or 811.
4. Locate meter base so the conduit run does not exceed maximum allowed length per District standard Q-1B, or have more than 3 bends totaling 270 degrees including sweep at transformer.
5. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries Requirements.
When no stub-out exists, customer to dig a 3'W x 3'L x 3'D work pit for District use. District will dig final 36" of trench and install District supplied sweep.

By District

By Customer

Plan

Phone, TV
Power cable in conduit
Gas, Water

3' Secondary

6" Min.

Selective Backfill

2'

Spoil Pile

Section A-A

Elevation

District supplied Pole

Self contained meter base furnished and installed by customer.

District furnished and installed meter

Customer provided trenching and backfill

Customer Supplied 36" Radius PVC Sweep

District supplied and installed sweep

Customer to remove temporary sewer 90° and connect to existing District stub-out. If no stub-out exists, see plan view above.

Notes:

1. The District will inspect and approve all trenches prior to backfill.
2. Cover open conduit with conduit cap or cloth to seal out dirt.
3. Always call U-DIG before digging UDIG or 811.
4. Locate meter base so the conduit run does not exceed maximum allowed length per District Standard Q-1 B, or have more than 3 bends totaling 270 degrees.
5. Details shown are minimum District requirements and are not intended to depict Washington State Labor and Industries requirements.
1. Connecting customer generation equipment to the Benton PUD (BPUD) distribution system requires completion of a Net Metering Application and signing of a Net Metering Interconnection Agreement.

2. This standard represents a typical arrangement for a net metering installation. The details shown are not intended to depict Washington State Department of Labor and Industries (L&I) requirements. L&I approval of installation is required prior to customer receiving approval from BPUD for final interconnection of generator to the BPUD distribution system. Customer shall provide BPUD with a copy of the documentation of L&I approval.

3. Customer's must provide a one-line electrical schematic drawing to BPUD which is specific to the proposed installation.

4. BPUD does not require a utility disconnect switch for customer generation equipment utilizing Underwriter's Laboratory (UL) 1741 listed inverter equipment. Contact the BPUD engineering department for review and approval of other interconnection methods.

5. Upon receiving L&I approval, BPUD will complete a field inspection of the customer's net metering installation. Approved installations will be documented by BPUD's completion of a Generating Facility Certificate of Completion. This certificate represents the customer's authorization to energize their generation equipment and interconnect their net metering installation to the BPUD distribution system.

6. AC production meter base shall be labeled, "CUSTOMER GENERATOR, PRODUCTION METER", with engraved phenolic placards; 3/8" white capitalized lettering on a red background.

7. Main electric service (Net Meter) meter base shall be labeled "NET METER, CUSTOMER GENERATOR CONNECTED TO THIS SERVICE", with engraved phenolic placards; 3/8" white capitalized lettering on a red background.
Customer to install 2" sch 40 PVC from communications room and connect to 2" stub-out or hand hole as provided by the District.

Notes:

1. All dimensions are minimum.
2. No obstructions are allowed over transformer or fiber hand hole.
3. Refer to District planting guide for landscaping.
WORK AREA CLEARANCES

Q-10 Series
Work Area Clearance

Typical Overhead

Typical Underground

Work Area

Front

Work Area

Work Area