

# OG&E Metering Standards

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JUN 2021

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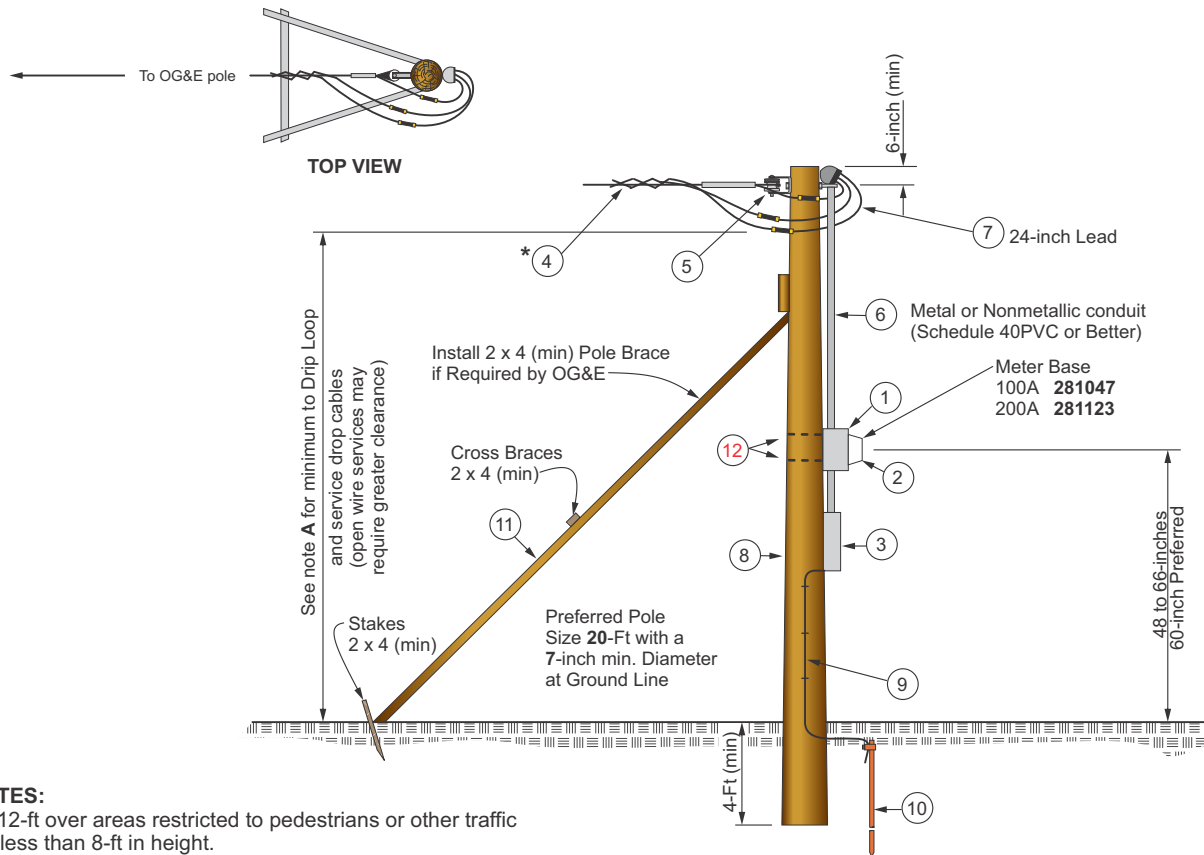
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## Underground Meters

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# Overhead Metering

**CONSUMER SERVICE POLE**  
**FOR MOBILE HOME PARK      200-AMPERE MAXIMUM PER METER**

**NOTES:**

- A. 12-ft over areas restricted to pedestrians or other traffic less than 8-ft in height.  
16-ft over areas subject to any traffic greater than 8ft. in height.  
For swimming pools see D262.4 or D262.6.  
For other situations see D262, D262.1, D262.3 or D262.5.
- B. Use 1/2" thru bolts on top and bottom to mount meter base.

\*Refusal to attach service to inadequate structure is determined by OG&E installer based on but not limited to pole size and type, bracing, and attachment height.

ITEM NO.	DESCRIPTION	FURNISHED BY		INSTALLED BY	
		O.G. & E.	CONSUMER	O.G. & E.	CONSUMER
1	METER BASE	X			X
2	METER	X		X	
3	SERVICE EQUIPMENT		X		X
4	*SERVICE DROP	X		X	
5	SERVICE DROP BRACKET	X			X
6	SERVICE RACEWAY		X		X
7	SERVICE ENTRANCE CONDUCTOR		X		X
8	CONSTRUCTION POLE		X		X
9	GROUNDING ELECTRODE CONDUCTOR		X		X
10	GROUNDING ELECTRODE		X		X
11	POLE BRACES		X		X
12	1/2" Mounting bolts See note B		X		X

## TEMPORARY SERVICE

### 3 WIRE SINGLE-PHASE 240/120-VOLTS

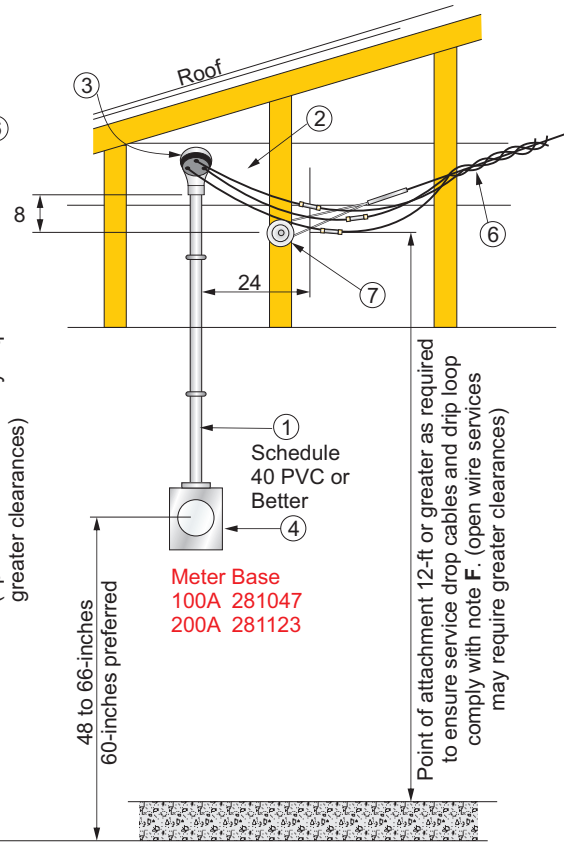
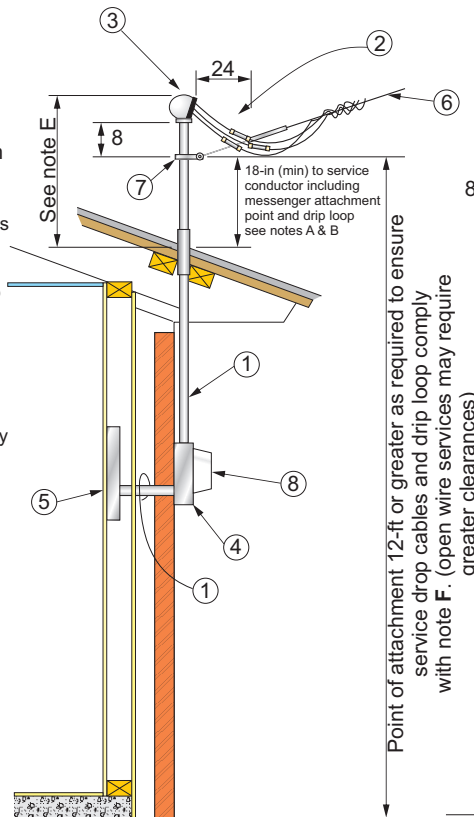
# D731.1

DISTRIBUTION STANDARD  
JUN 2018

OG&E Electric Services®

## Notes:

- A. Service raceway must be within 4-ft horizontally of roof edge, otherwise this dimension must be 36-in min. (applies only if roof is not readily accessible)
- B. If more than 6-ft of service drop overhangs the roof then a 36-in min distance between the service drop and the roof must be maintained for the service drop outside a 6-ft radius from the service raceway. (applies only if roof is not readily accessible)
- C. Service entrance location to be approved by OGE before setting breaker box.
- D. Steel conduit (2-in for 200 ampere or 1-1/2-in for 100 ampere) required for service entrance extending through roof.
- E. Service head not to extend more than 42-in above roof without special approval from OGE.
- F. 12-ft over areas restricted to pedestrians or other traffic less than 8-ft in height. 16-ft over areas subject to any traffic greater than 8ft. in height. For swimming pools see D262.4 or D262.6. For other situations see D262, D262.1, D262.3 or D262.5. For possible reduced clearance requirements for RESIDENTIAL SINGLE STORY buildings see NESC Table 232-1 footnotes 7 and 8.

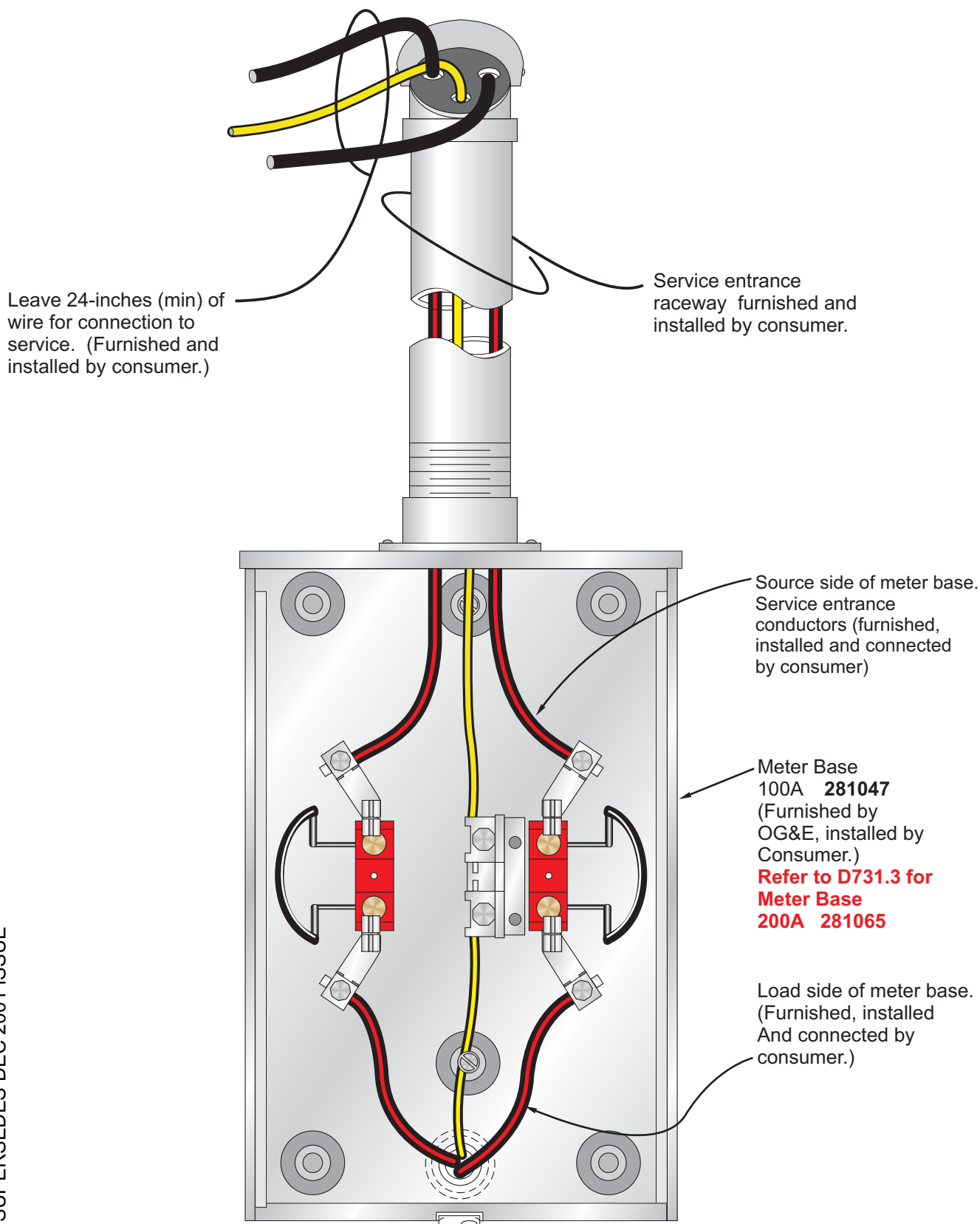


Item no.	Description	Furnished		Installed by	
		OG&E	Consumer	OG&E	Consumer
1	Service raceway		X		X
2	Service entrance conductor		X		X
3	Service head		X		X
4	Meter base 100A (281057), 200A (281065)	X			X
5	Service equipment		X		X
6	Service Drop	X		X	
7	Service drop bracket	X			X
8	Meter	X		X	

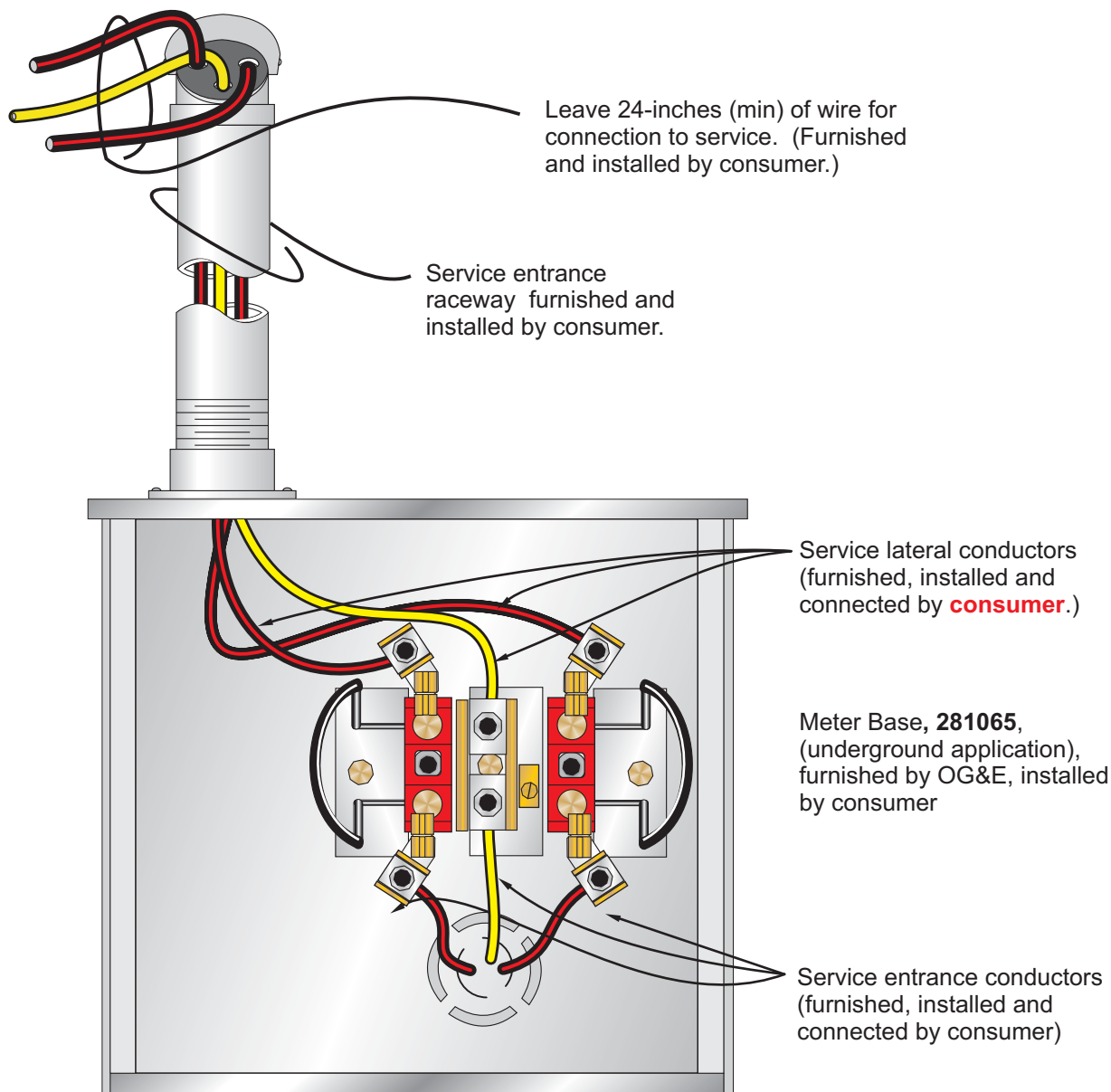
## OVERHEAD METER INSTALLATION SINGLE PHASE 200-AMPERE MAXIMUM

SUPERSEDES FEB 2007 ISSUE  
APPROVED **Signatures on File**

The following is a suggested configuration for meter bases for overhead and underground meters in residential and commercial applications. OG&E Energy Corp., its subsidiaries and affiliates disclaim any liability for the construction or maintenance practices relating to such suggested configuration.



**CONNECTION DIAGRAM**  
**SINGLE PHASE 200 AMPERE MAXIMUM**



**CONNECTION DIAGRAM**  
SINGLE PHASE  
200 AMPERE MINIMUM

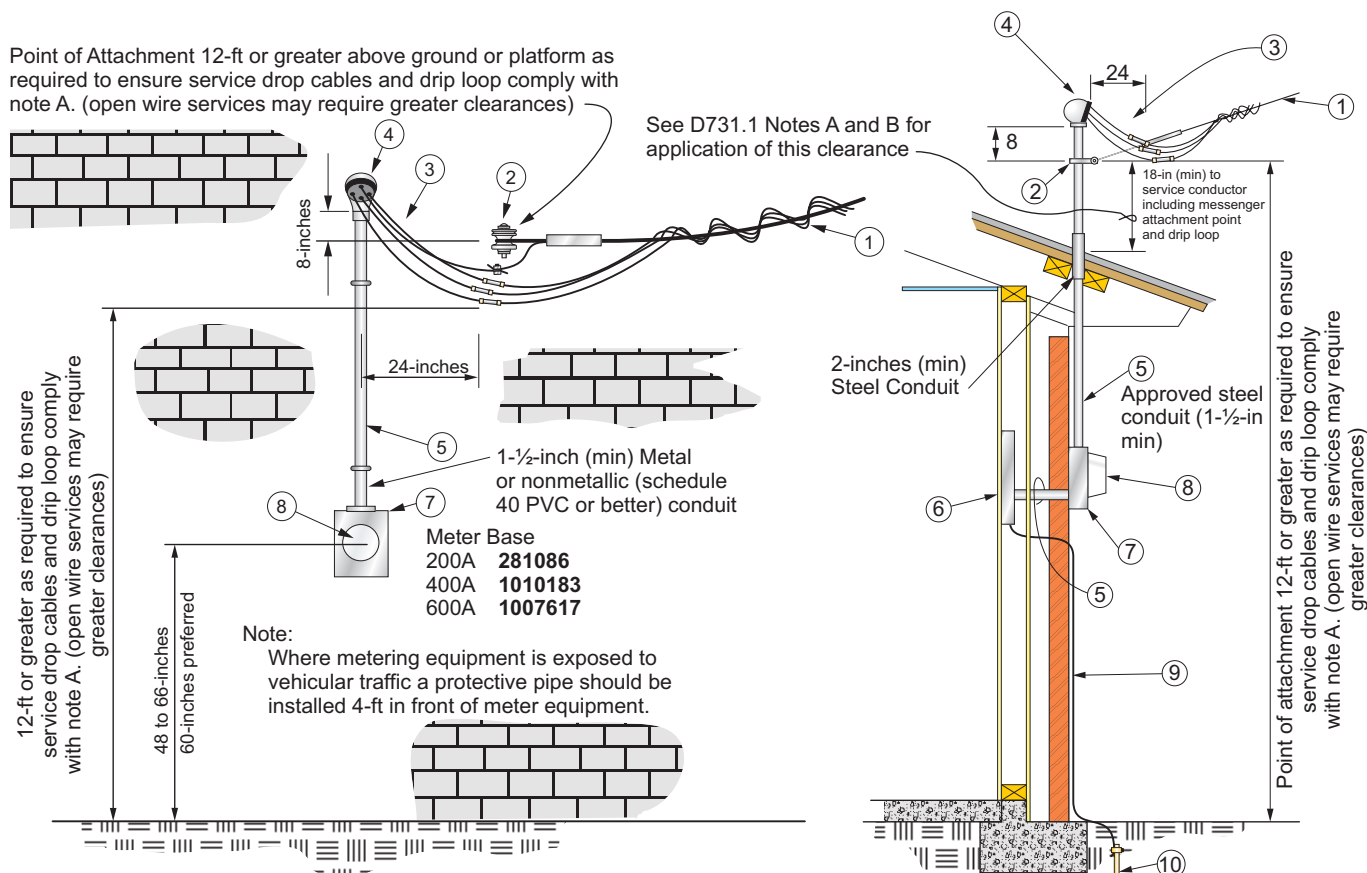


The following is a suggested configuration for meter bases for overhead and underground meters in residential and commercial applications. OG&E Energy Corp., its subsidiaries and affiliates disclaim any liability for the construction or maintenance practices relating to such suggested configuration.

## Signatures on File

APPROVED

SUPERSEDES NOV 2006 ISSUE



**NOTE:**

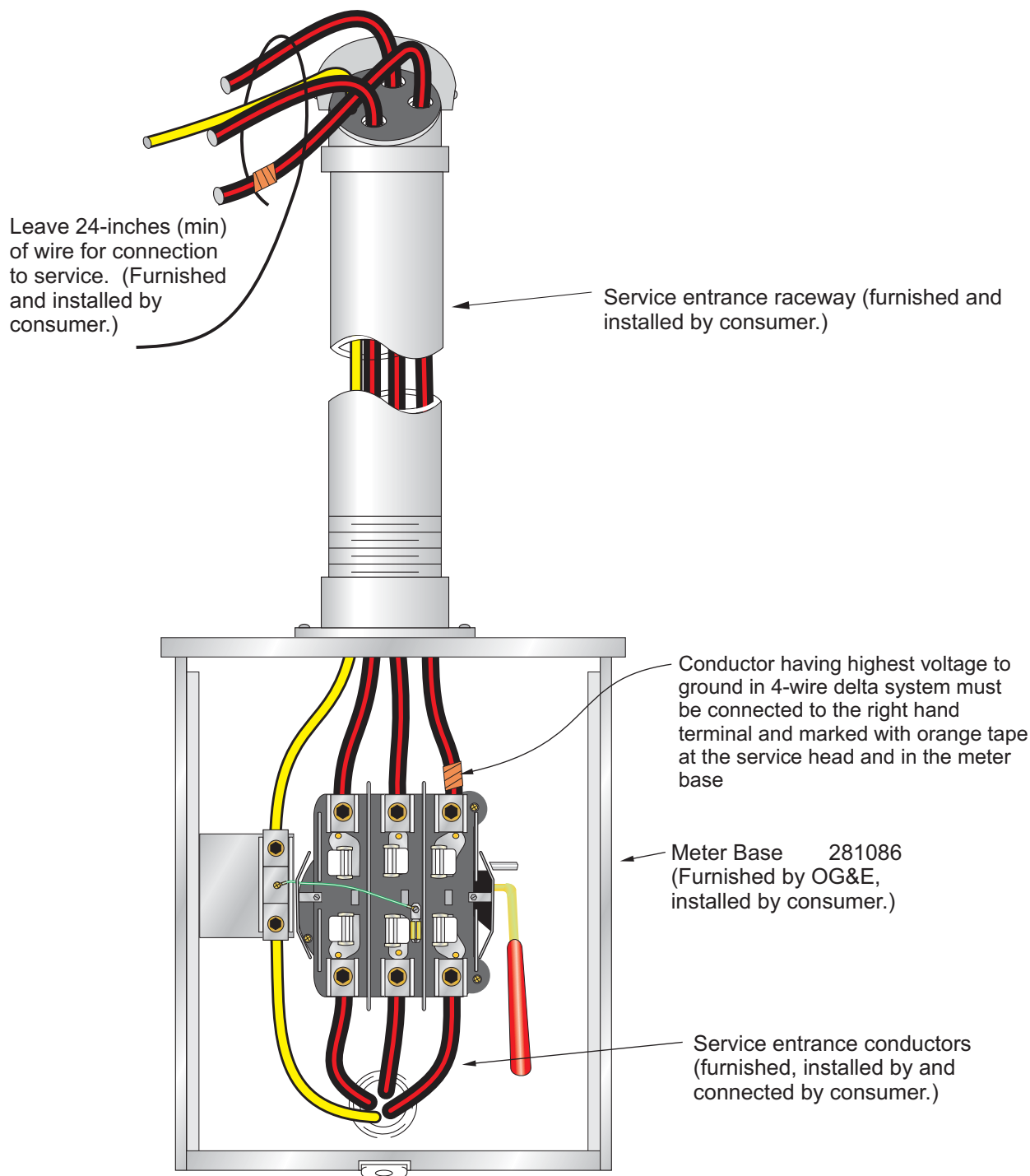
- A. 12-ft over areas restricted to pedestrians or other traffic less than 8-ft in height.  
 16-ft **over areas subject to any traffic greater than 8ft. in height.**  
 For swimming pools see D262.4 or D262.6.  
 For other situations see D262, D262.1, D262.4 or D262.5.  
 For possible reduced clearance requirements for RESIDENTIAL SINGLE STORY buildings  
 see NESC Table 232-1 footnotes 7 and 8.

ITEM NO.	DESCRIPTION	FURNISHED BY		INSTALLED BY	
		O.G.& E.	CONSUMER	O.G.& E.	CONSUMER
1	SERVICE DROP	X		X	
2	SERVICE DROP BRACKET	X			X
3	SERVICE ENTRANCE CONDUCTOR		X		X
4	SERVICE HEAD		X		X
5	SERVICE RACEWAY		X		X
6	SERVICE EQUIPMENT		X		X
7	METER BASE	X			X
8	SELF-CONTAINED METER	X		X	
9	GROUNDING ELECTRODE CONDUCTOR		X		X
10	GROUNDING ELECTRODE		X		X

## METER INSTALLATION

**FOR SELF-CONTAINED POLY-PHASE METER  
208Y/120 OR 240-delta/120-VOLTS 200,400,600-AMPERE**

**OGI-E®**



**CONNECTION DIAGRAM**  
**FOR SELF-CONTAINED THREE PHASE FOUR WIRE METER**  
**208Y/120 OR 240Δ/120 VOLT 200-AMPERE MAXIMUM**

The following is a suggested configuration for meter bases for overhead and underground meters in residential and commercial applications. OG&E Energy Corp., its subsidiaries and affiliates disclaim any liability for the construction or maintenance practices relating to such suggested configuration.

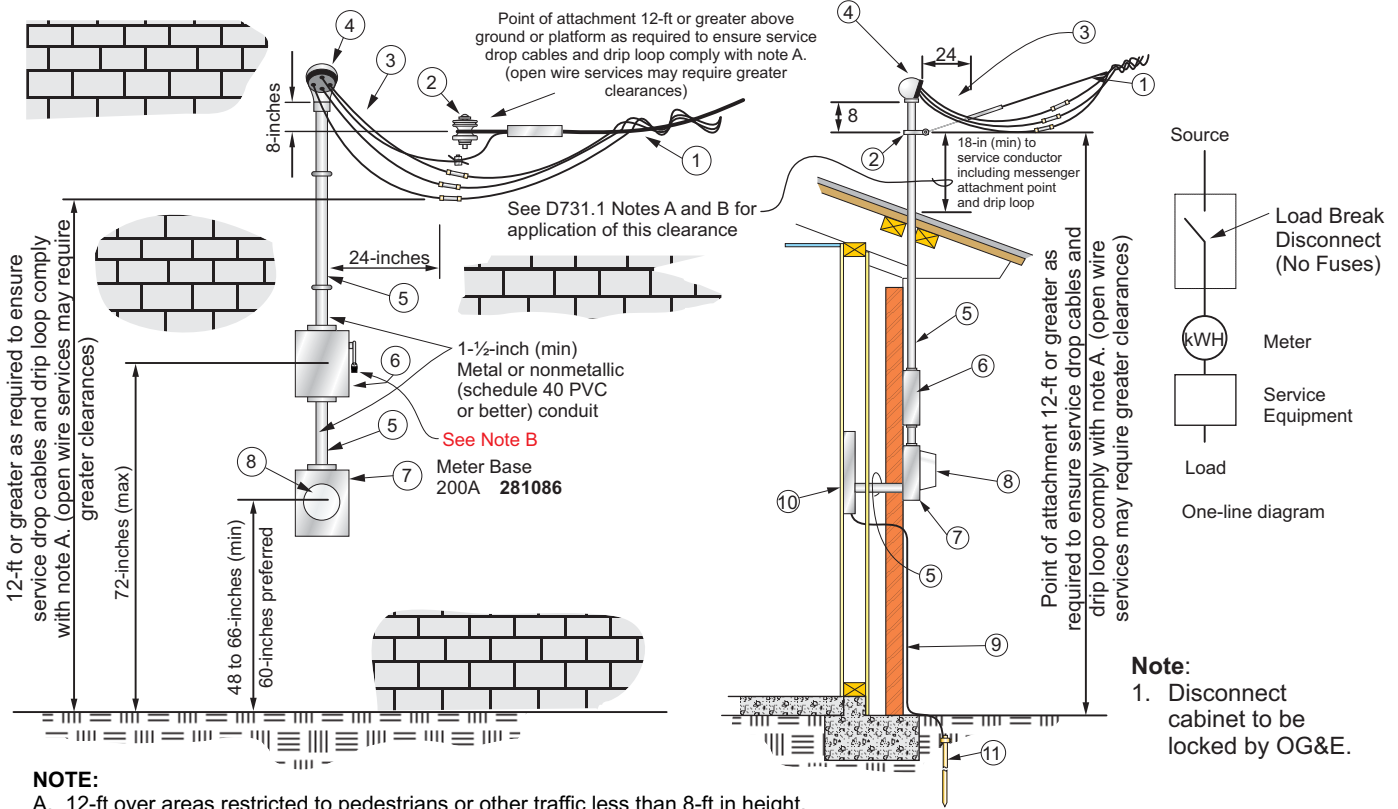
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DISTRIBUTION STANDARD  
NOV 2012

**D732.2**

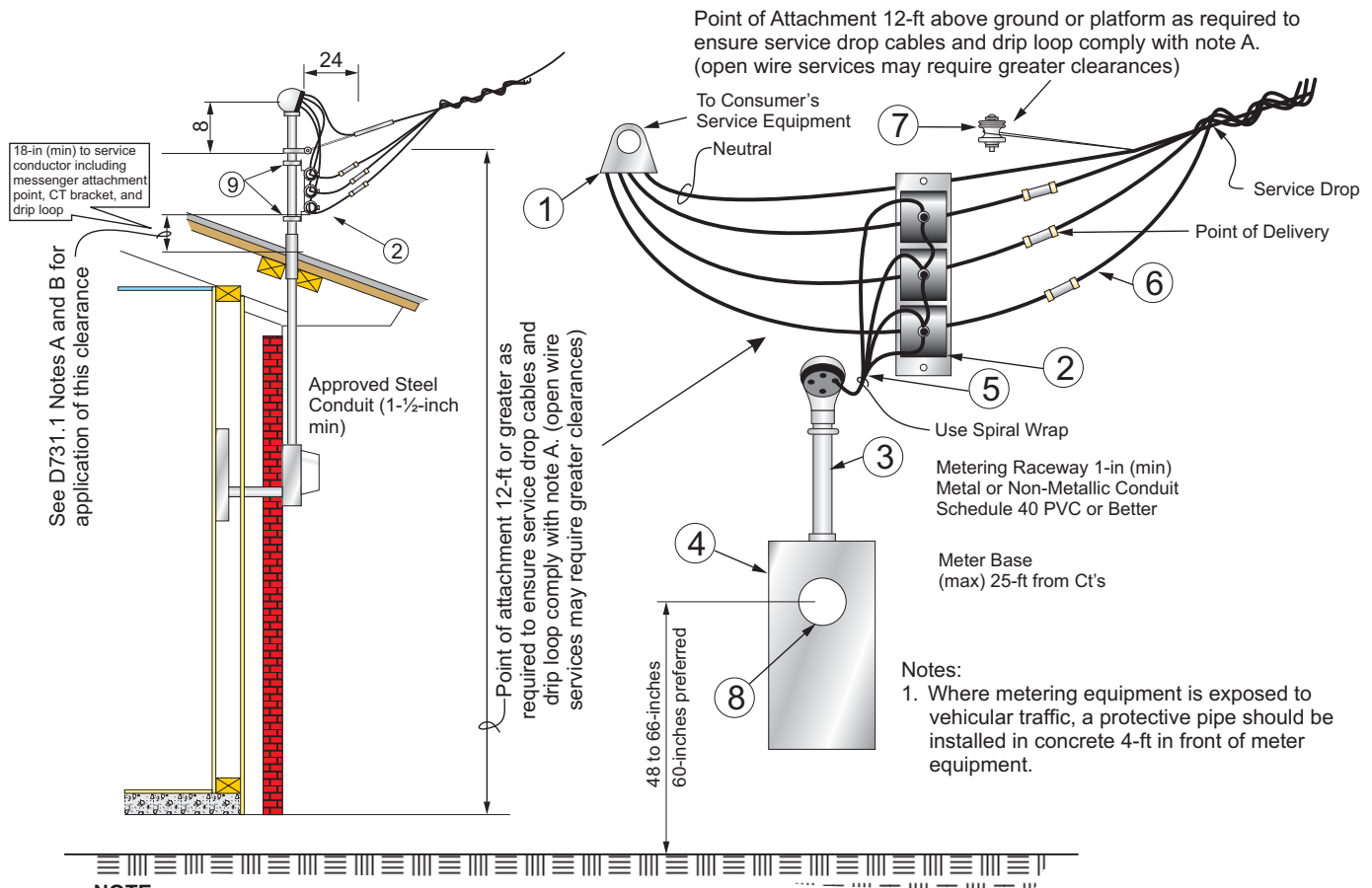


**NOTE:**

- A. 12-ft over areas restricted to pedestrians or other traffic less than 8-ft in height.  
16-ft over areas subject to any traffic greater than 8ft. in height.  
For swimming pools see D262.4 or D262.6.  
For other situations see D262, D262.1, D262.4 or D262.5.
- B. OG&E to secure energized parts and switch position with series 1 lock (301236).

ITEM NO.	DESCRIPTION	FURNISHED BY		INSTALLED BY	
		O.G.E.	Consumer	O.G.E.	Consumer
1	Service drop	X		X	
2	Service drop bracket	X			X
3	Service entrance conductor		X		X
4	Service head		X		X
5	Service raceway		X		X
6	Disconnect Switch		X		X
7	Meter base	X			X
8	Self-contained meter	X		X	
9	Grounding electrode conductor		X		X
10	Service Equipment		X		X
11	Ground Electrode		X		X

**METER INSTALLATION**  
**FOR SELF-CONTAINED THREE-PHASE METER**  
**480 OR 480Y/277-VOLTS 200 AMPERE MAXIMUM**

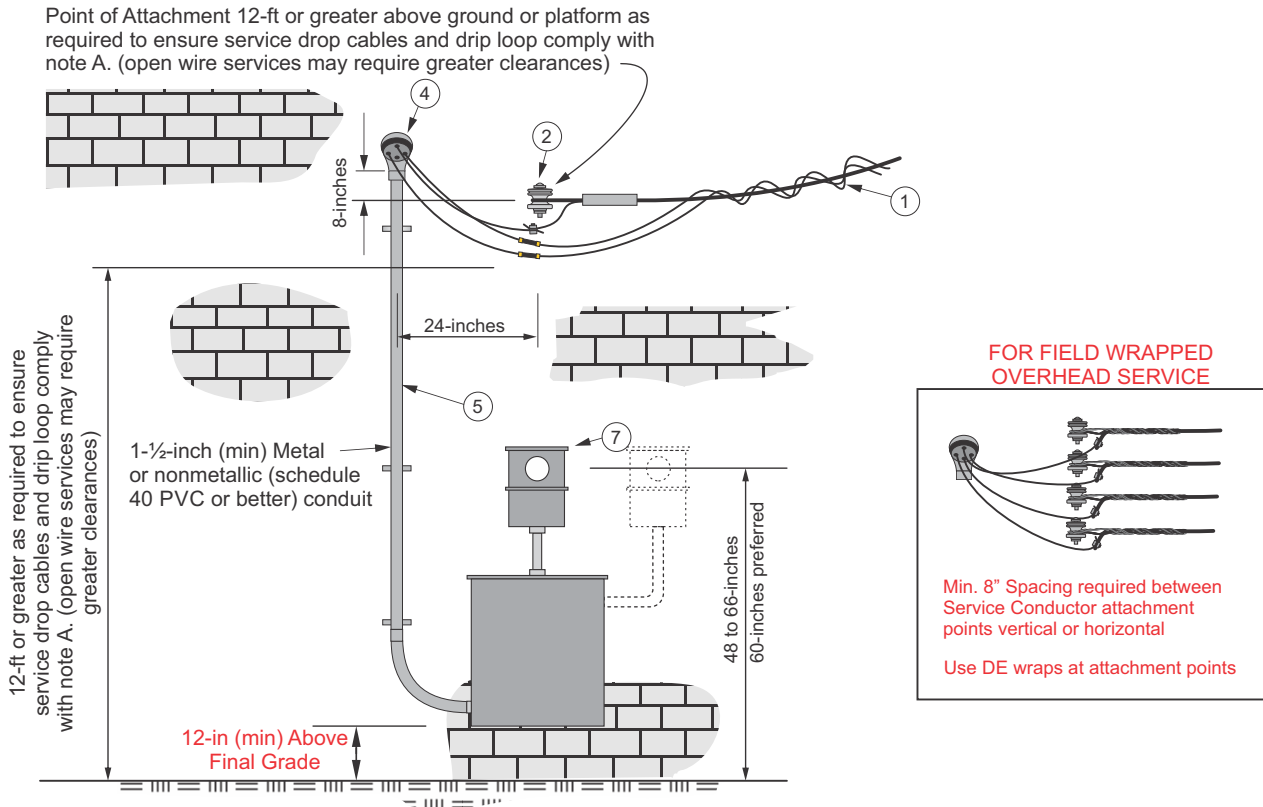
**NOTE:**

- A. 12-ft over areas restricted to pedestrians or other traffic less than 8-ft in height.  
 16-ft **over areas subject to any traffic greater than 8ft. in height.**  
 For swimming pools see D262.4 or D262.6.  
 For other situations see D262, D262.1, D262.4 or D262.5.

ITEM NO.	DESCRIPTION	FURNISHED BY		INSTALLED BY	
		O.G. & E.	CONSUMER	O.G. & E.	CONSUMER
1	SERVICE HEAD		X		X
2	CURRENT TRANSFORMERS AND MOUNTING BRACKET	X			X
3	METERING RACEWAY AND WEATHERHEAD		X		X
4	METER BASE	X			X
5	METER WIRING	X		X	
6	SERVICE ENTRANCE CONDUCTOR		X		X
7	SERVICE DROP BRACKET	X			X
8	METER	X		X	
9	2 CLAMPS	X			X

## SERVICE ENTRANCE AND OUTDOOR METERING INSTALLATION ABOVE 200-AMPERES

4 WIRE, POLY-PHASE, 240-delta/120, 208Y/120 OR 480/277-VOLTS

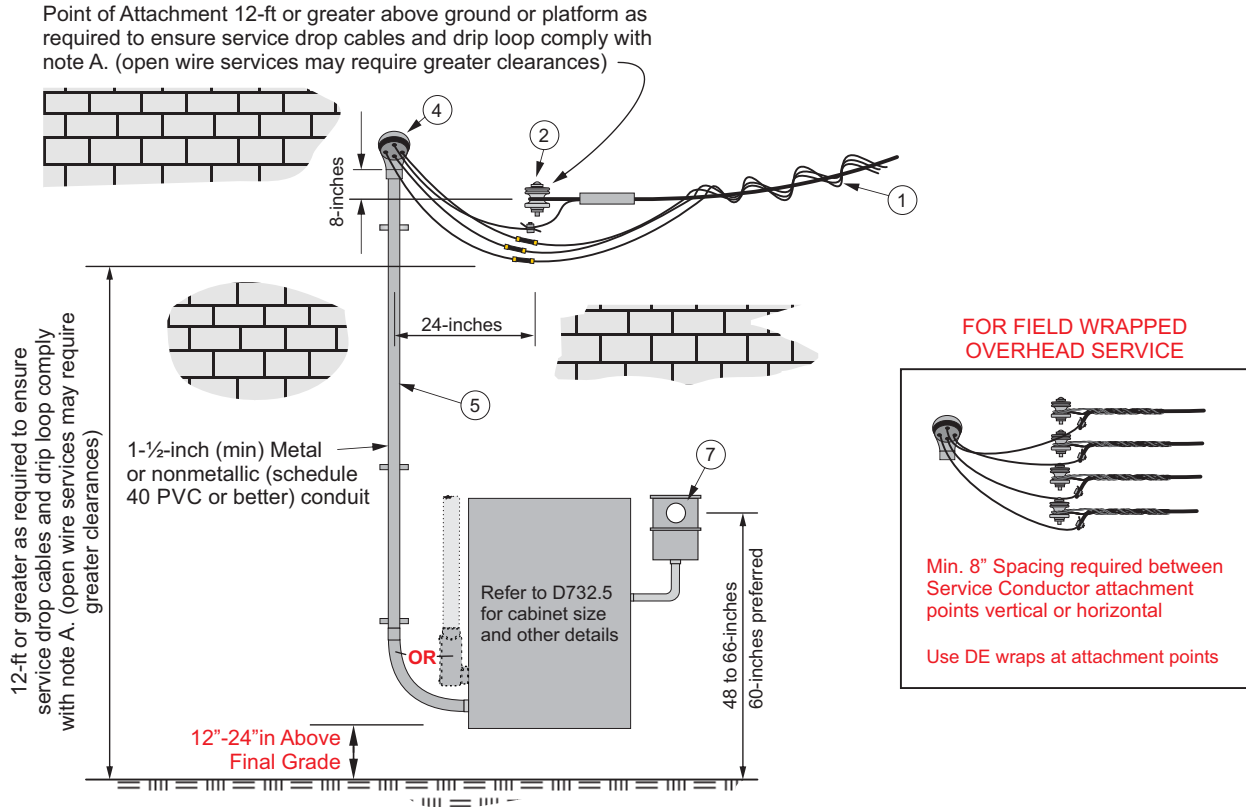
**NOTE:**

- A. 12-ft over areas restricted to pedestrians or other traffic less than 8-ft in height.  
 16-ft over areas subject to any traffic greater than 8ft. in height.  
 For swimming pools see D262.4 or D262.6.  
 For other situations see D262, D262.1, D262.4 or D262.5.  
 For possible reduced clearance requirements for RESIDENTIAL SINGLE STORY buildings see NESC Table 232-1 footnotes 7 and 8.

\* Cabinet not to be used for equipment grounds or as a raceway

ITEM NO.	DESCRIPTION	FURNISHED BY		INSTALLED BY	
		O.G. & E.	CONSUMER	O.G. & E.	CONSUMER
1	SERVICE DROP	X		X	
2	SERVICE DROP BRACKET	X			X
3	SERVICE ENTRANCE CONDUCTOR		X		X
4	SERVICE HEAD		X		X
5	SERVICE RACEWAY		X		X
6	SERVICE EQUIPMENT		X		X
7	METER BASE	X			X
8	SELF-CONTAINED METER	X		X	
9	GROUNDING ELECTRODE CONDUCTOR		X		X
10	GROUNDING ELECTRODE		X		X

**METER INSTALLATION**  
**FOR CURRENT TRANSFORMER METERING**  
**SINGLE AND EXISTING 3 PHASE ONLY**  
**800-AMPERES MAXIMUM**



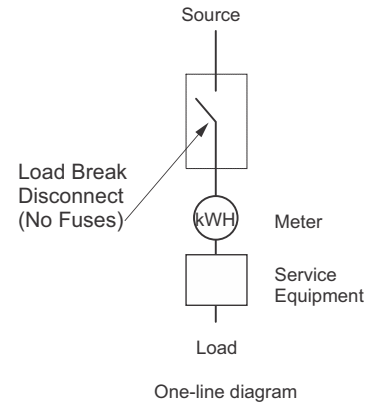
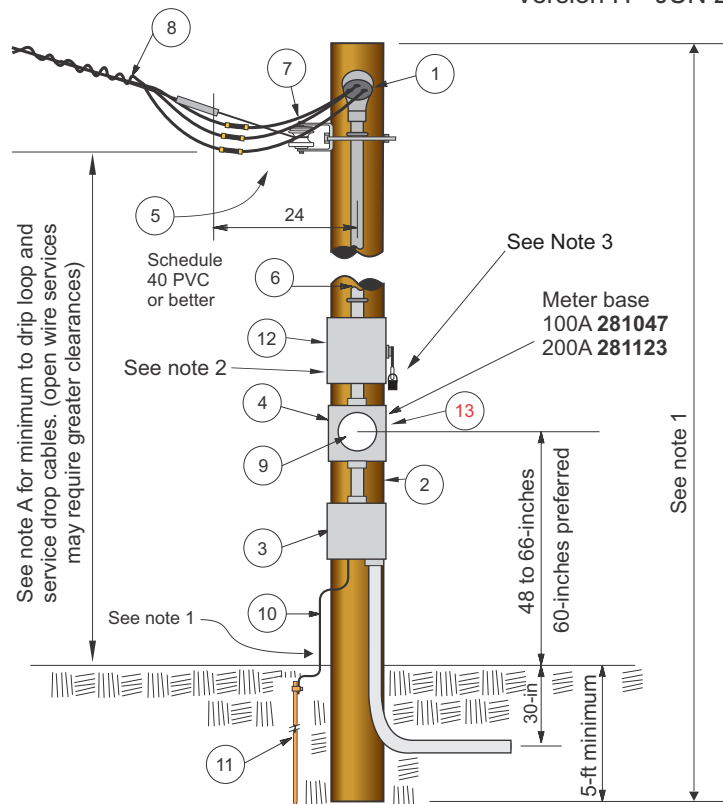
**NOTE:**

- A. 12-ft over areas restricted to pedestrians or other traffic less than 8-ft in height.  
16-ft over areas subject to any traffic greater than 8ft. in height.  
For swimming pools see D262.4 or D262.6.  
For other situations see D262, D262.1, D262.4 or D262.5.  
For possible reduced clearance requirements for RESIDENTIAL SINGLE STORY buildings see NESC Table 232-1 footnotes 7 and 8.

\* Cabinet not to be used for equipment grounds or as a raceway

ITEM NO.	DESCRIPTION	FURNISHED BY		INSTALLED BY	
		O.G.& E.	CONSUMER	O.G.& E.	CONSUMER
1	SERVICE DROP	X		X	
2	SERVICE DROP BRACKET	X			X
3	SERVICE ENTRANCE CONDUCTOR		X		X
4	SERVICE HEAD		X		X
5	SERVICE RACEWAY		X		X
6	SERVICE EQUIPMENT		X		X
7	METER BASE	X			X
8	SELF-CONTAINED METER	X		X	
9	GROUNDING ELECTRODE CONDUCTOR		X		X
10	GROUNDING ELECTRODE		X		X

## METER INSTALLATION FOR CURRENT TRANSFORMER METERING 1200-AMPERES MAXIMUM

**Notes:**

- 1 Total length of pole is to be a minimum of 18 feet and diameter of pole at ground line is to be a minimum of 7-inches.
- 2 Disconnect cabinet to be locked by OG&E.
- 3 OG&E to secure Energized Parts and Switch Position with Series 1 lock (301236).

**NOTES:**

- A. 12-ft over areas restricted to pedestrians or other traffic less than 8-ft in height.  
16-ft over areas subject to any traffic greater than 8ft. in height.  
For swimming pools see D262.4 or D262.6.  
For other situations see D262, D262.1, D262.4 or D262.5.

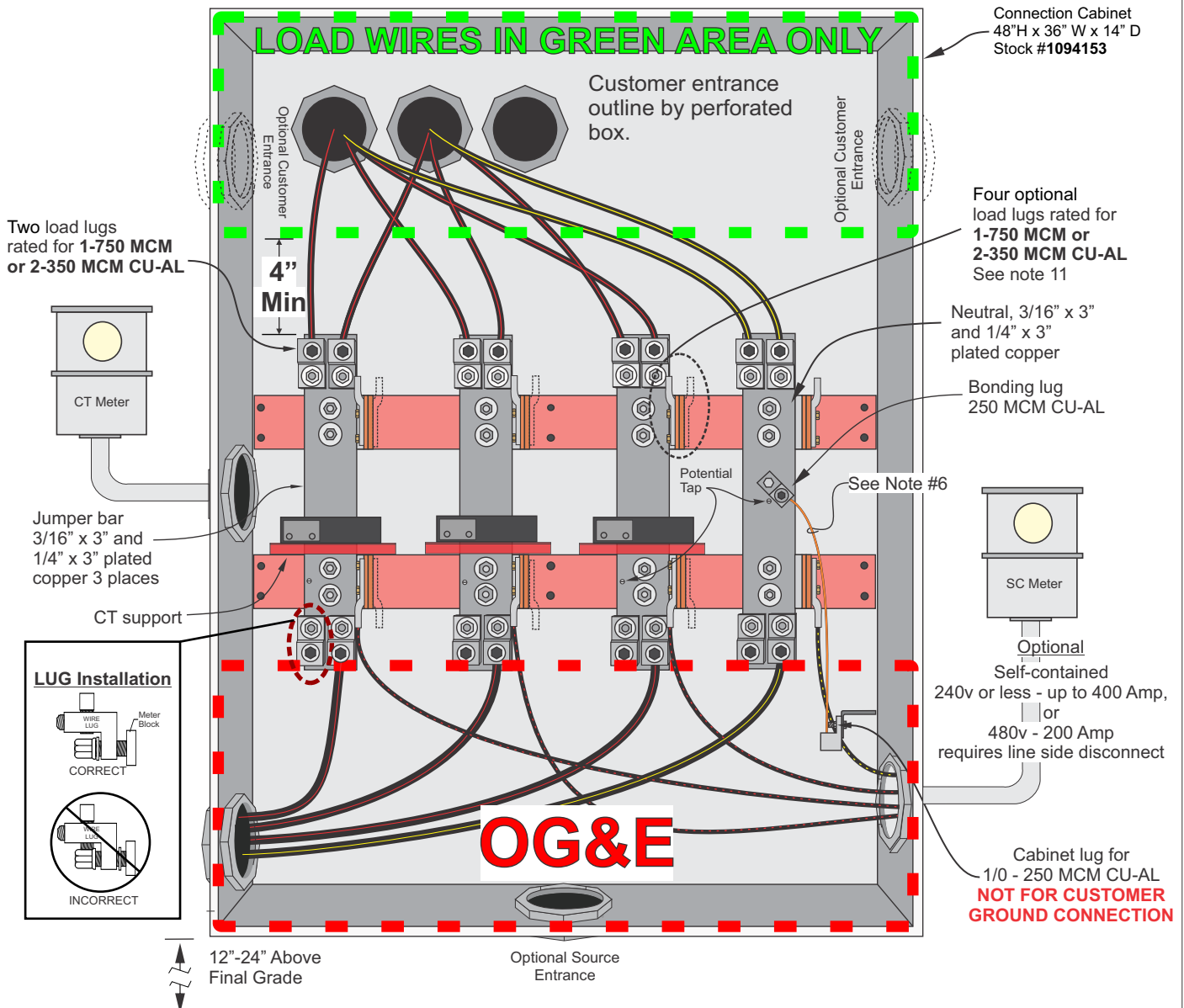
- B. Use 1/2" thru bolts on top and bottom to mount meter base.

Item no.	DESCRIPTION	Furnished by		Installed by	
		O.G.E.	Consumer	O.G.E.	Consumer
1	Service head		X		X
‡ 2	Service pole See note A		X		X
3	200 Amp Fused Disconnect		X		X
4	Meter base	X			X
5	Service entrance conductor		X		X
6	Service raceway		X		X
7	Service drop bracket	X			X
8	Service drop	X		X	
9	Meter	X		X	
10	Grounding electrode Conductor		X		X
11	Grounding electrode		X		X
12	Disconnect Switch		X		X
13	1/2" Mounting bolts See note B		X		X

‡ Pressure treated southern yellow pine

**ALTERNATE**  
**480V CONSUMER SERVICE POLE**  
**REFER TO U773.8 FOR PRIMARY CHOICE**



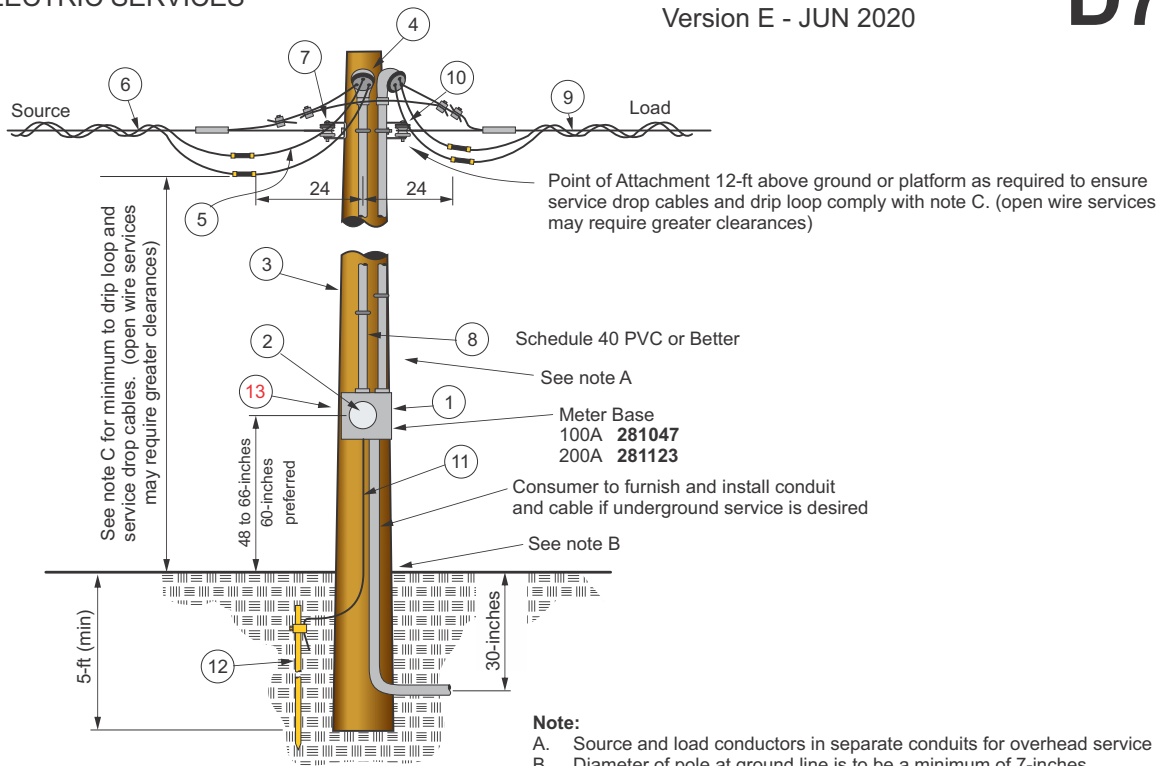


**NOTES:**

1. Refer to U760 for Metering Guidelines.
2. Service and metering connections made by OG&E.
3. Verify that customer has established a driven ground at their main switch panels.
4. Place identifying tag on service conductors with information relating to where service is coming from (pedestal, transformer, pipe or no pipe under driveway.) Refer to U16.
5. Wiring from CTs to CT meter is not to exceed 20 feet in total length.
6. OG&E to bond CT cabinet to neutral block using min. 1/0 AWG copper wire.
7. Secure connection box with series #1 padlock #301236 upon energizing.
8. Current Transformers to be installed by OG&E meter department.
9. **Not to be used for equipment grounds or as a raceway.**
10. Center of meters must be placed 48" to 60" above final grade.
11. Due to Arc Flash hazards in 480V applications, only the left two optional lugs may be installed.

## CONNECTION DIAGRAM 1200 AMP, 3-PHASE CT METER INSTALLATION WITH OPTIONAL SELF-CONTAINED METER



**Note:**

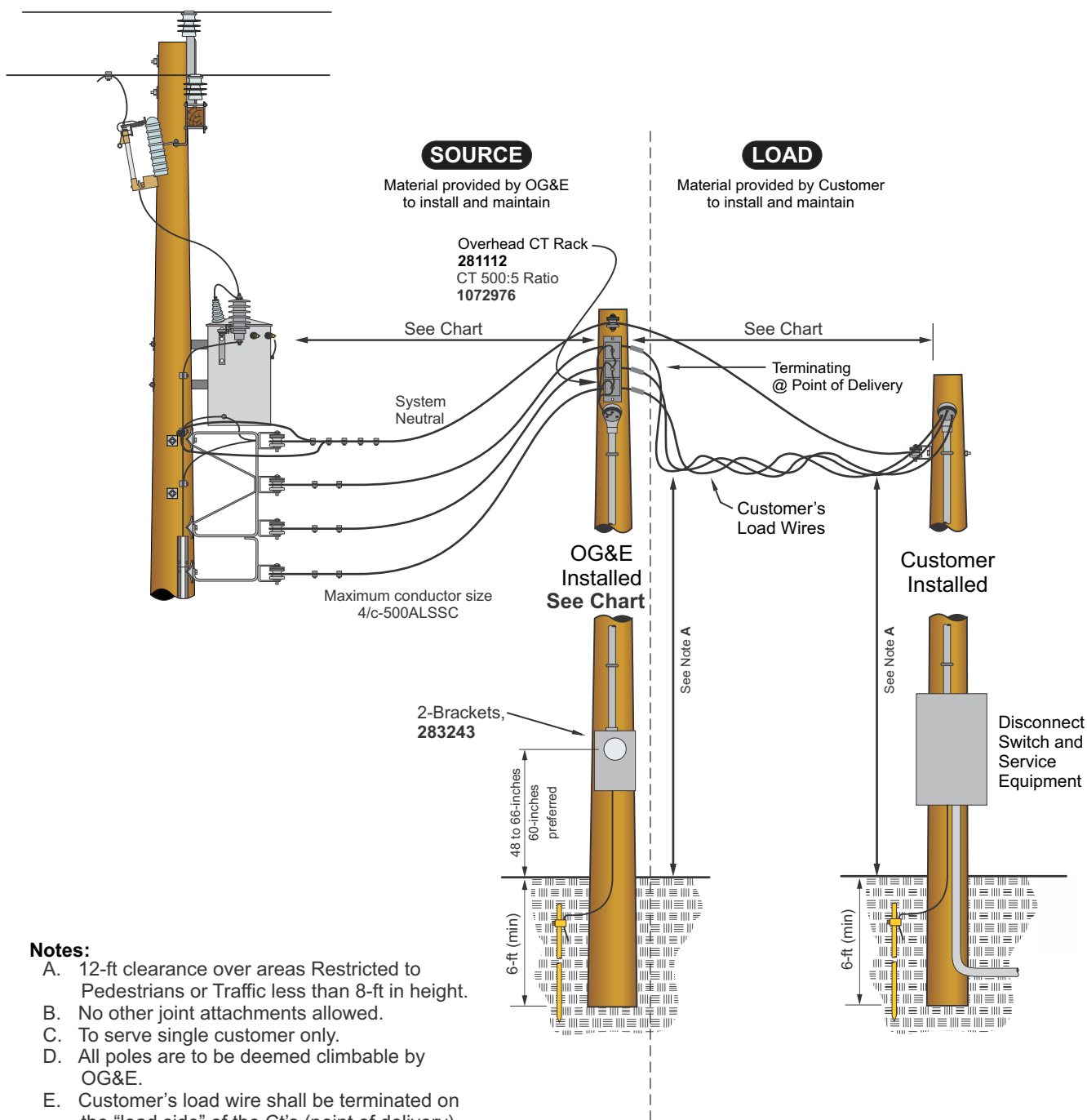
- A. Source and load conductors in separate conduits for overhead service
- B. Diameter of pole at ground line is to be a minimum of 7-inches.
- C. 12-ft over areas restricted to pedestrians or other traffic less than 8-ft in height. 16-ft over areas subject to any traffic greater than 8ft. in height. For swimming pools see D262.4 or D262.6. For other situations see D262, D262.1, D262.4 or D262.5.
- D. Use 1/2" thru bolts on top and bottom to mount meter base.

ITEM NO.	DESCRIPTION	FURNISHED BY		INSTALLED BY	
		O.G.E.	CONSUMER	O.G.E.	CONSUMER
1	Meter base	X			X
2	Meter	X		X	
‡ 3	Service pole		X		X
4	Service head		X		X
5	Service entrance conductor		X		X
6	Service drop	X		X	
7	Service drop bracket	X			X
8	Service raceway		X		X
9	Service wires		X		X
10	Service wiring bracket		X		X
11	Grounding electrode Conductor		X		X
12	Grounding electrode		X		X
13	1/2" Mounting bolts See note D		X		X

‡ Pressure treated southern yellow pine

## CONSUMER SERVICE POLE

### 200-AMPERE MAXIMUM PER METER



**Notes:**

- 12-ft clearance over areas Restricted to Pedestrians or Traffic less than 8-ft in height.
- No other joint attachments allowed.
- To serve single customer only.
- All poles are to be deemed climbable by OG&E.
- Customer's load wire shall be terminated on the "load side" of the Ct's (point of delivery).
- For customer load greater than 480 Amp, Refer to U773.10.
- Foam poles if within 25% of max span.

	Max Amps Per Phase	Max Span 30' 6"	Max Span 35' 5"	Max Span 40' 3" Set 8' deep
4/c-0ALSSC	200	65	75	85
4/c-000ALSSC	260	55	60	70
4/c-350ALSSC	420	45	50	60
4/c-500ALSSC	480	35	40	50

## OVERHEAD CT RATED METER INSTALLATION

480 OR 480 WYE/277-VOLTS      600AMP RATED

# Underground Services

The following sizes of services are recommended for all normal applications. It is not intended to preclude the use of larger sizes where justified by special conditions of load, voltage drop or voltage flicker.

These service sizes are based on the ampacities of the various conductors direct buried and/or in conduit (PVC direct buried). Consider cable direct buried if no part of the cable run is in conduit longer than 20 feet.

For conduit sizes refer to U27.

Size residential services for 80% of the electrical breaker panel as per NEC.

Example: 200-AMP panel x 80% = 160 AMPS. Therefore, a 0AL (stock number 185150) should be used for the service.

CUSTOMER'S ESTIMATED DEMAND CABLE DIRECT BURIED		CUSTOMER'S ESTIMATED DEMAND CABLE IN PVC, DIRECT BURIED		CONDUCTOR SIZE	
SINGLE PHASE LF = 75% AMPS	THREE PHASE LF = 100% AMPS	SINGLE PHASE LF = 75% AMPS	THREE PHASE LF = 100% AMPS	PHASE	NEUTRAL
260	220	162	155	0AL 185150	2AL
382	321	245	232	0000AL 185151	00AL
448	374	305	286	350AL 185152	0000AL
546	456	370	346	500AL 185157	0000AL
702	572	538	482	2-350AL	2-0000AL
838	680	650	580	2-500AL	2-0000AL

\*Aluminum conductors shall be insulated

**NOTE:**

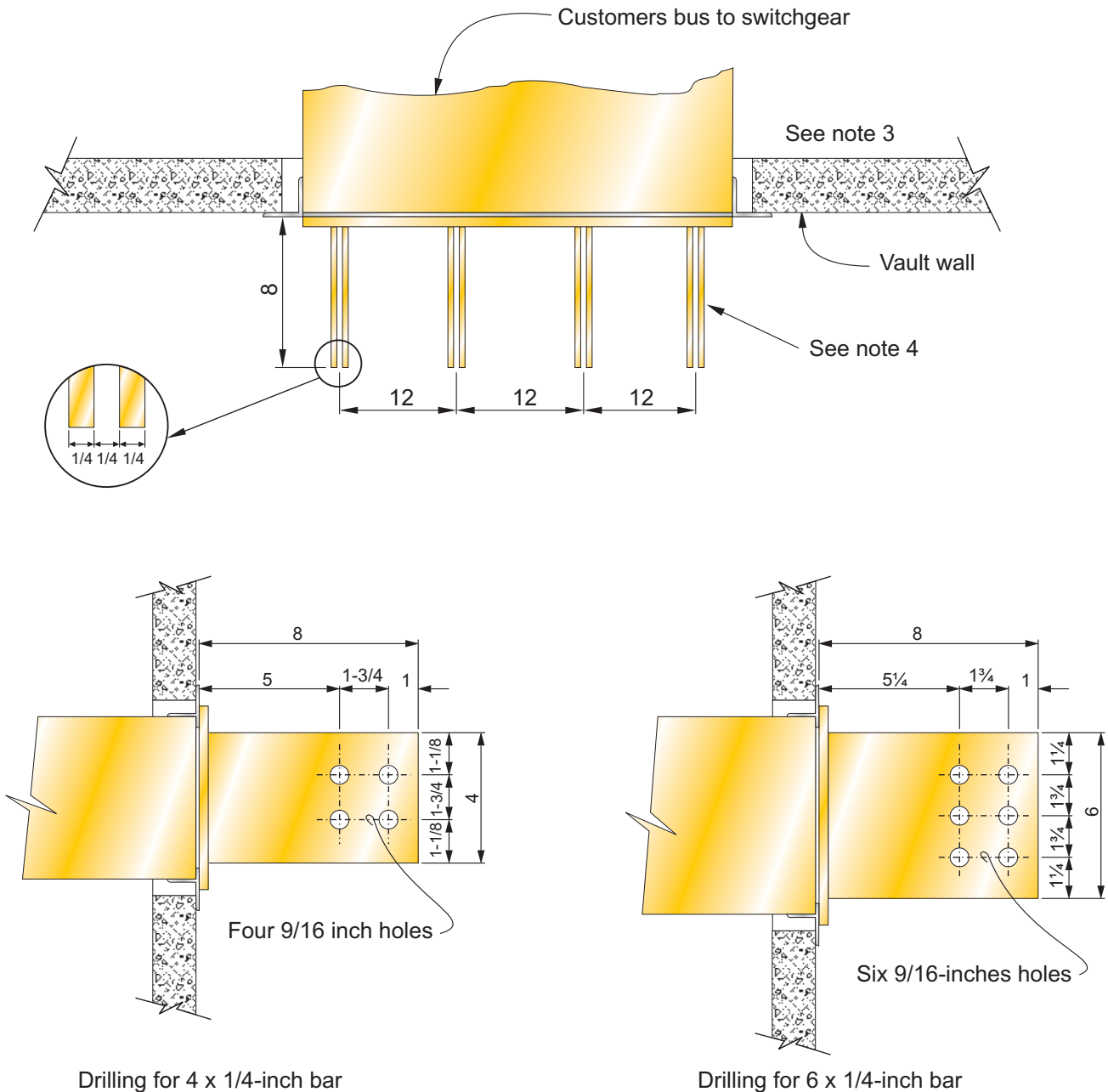
These ampacities were calculated using CYME (CYMCAP PROG) and verified where possible against IEEE STD>835-1994

CRITERIA: Load factor - 75% and 100%  
Earth RHO - 90° (C-CM)/W  
Earth ambient temp - 25°C  
Conductor temp - 90°C

**UNDERGROUND SERVICE  
RECOMMENDED SIZES**

**OG&E<sup>®</sup>**

The following is a suggested configuration for meter bases for overhead and underground meters in residential and commercial applications. OG&E Energy Corp., its subsidiaries and affiliates disclaim any liability for the construction or maintenance practices relating to such suggested configuration.

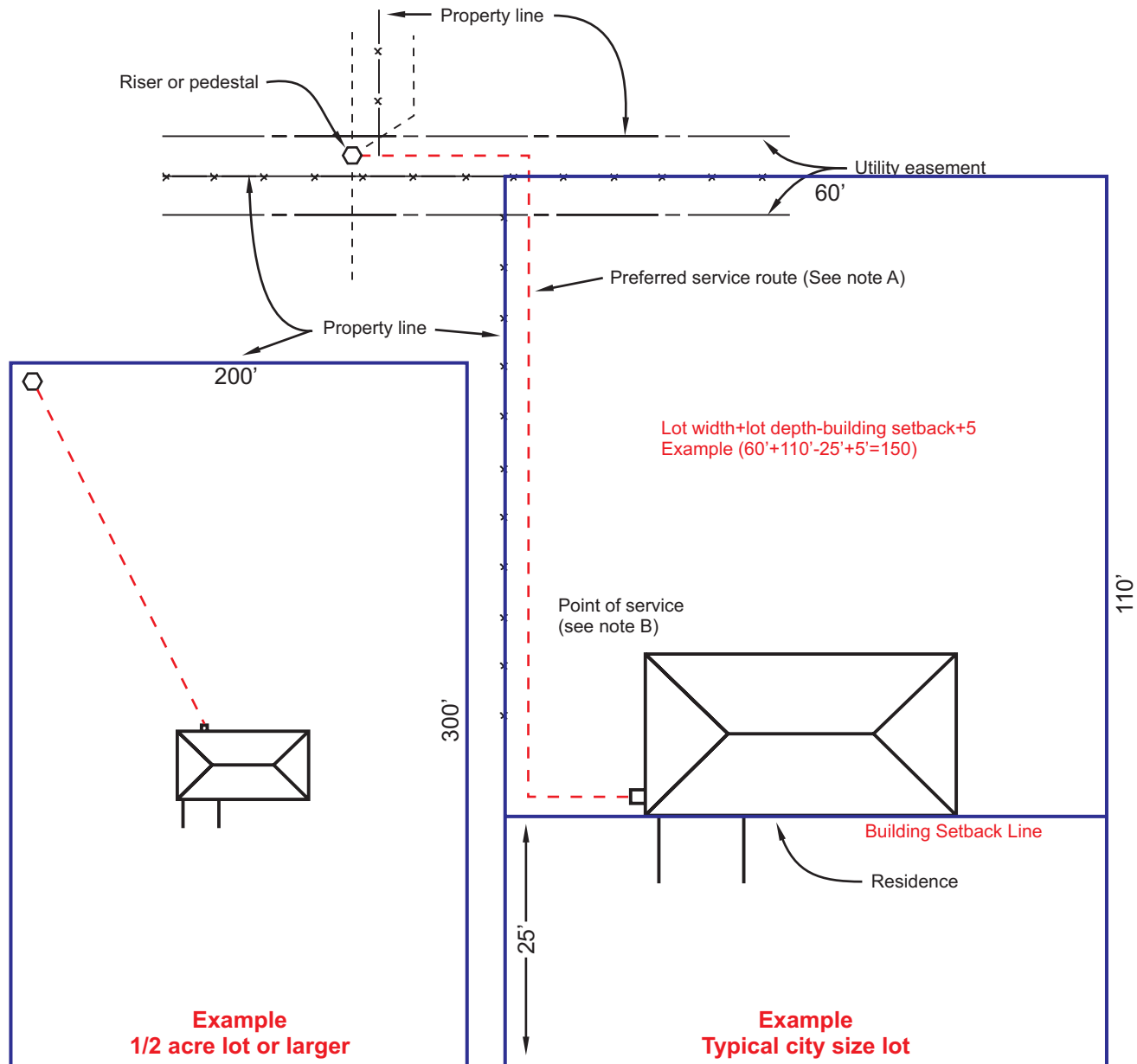


## NOTES

1. Electrical contractor shall specify number of bars and size.
2. Phase sequence shall be ABC with A phase on the North or East.
3. The neutral bar may be located at either side of phase bars.
4. The bottom of the bars shall be located a minimum of 6'6" above the vault floor.

## CUSTOMERS BUS ENTRANCE FOR TRANSFORMER VAULTS

The following is a suggested configuration for meter bases for overhead and underground meters in residential and commercial applications. OG&E Energy Corp., its subsidiaries and affiliates disclaim any liability for the construction or maintenance practices relating to such suggested configuration.



## NOTES:

- Service route to each consumer should be in the easement and on the consumer's property who will receive service. Service route should not cross other private property unless **permanent** obstructions prevent installation along preferred route.
- OG&E will supply service to a point on the side of the residence nearest the electricity supply system. If, for good reason, the contractor or builder needs to place the service entrance elsewhere the OG&E company should be notified and the alternate location approved before the service entrance is installed.

## UNDERGROUND SERVICES PREFERRED ROUTING AND POINT OF SERVICE

# Underground Metering

OG&E strives to maintain a high standard of service, reliable and efficient power delivery to all its customers.

This document reflects standard directives utilized during new service installation or existing service upgrades. However, the following standards are not intended to be all-inclusive and are not a substitute for direct communication between the customer and OG&E.

- a. **No customer or their agent shall access the utility equipment of OG&E. The National Electric Safety Code prohibits access to utility equipment by anyone other than the utility. Utility equipment includes, but not limited to, self-contained and CT (current transformer) meter bases, CT boxes and secondary junction boxes.**

**No customer-owned equipment, conduits and conductors (other than the service entrance conductors) shall be allowed access into our utility equipment. This includes, but is not limited to customer-owned back-up generation, solar installations, wind generators or any other distributed energy resources.**

**OG&E's terms and condition states that we have the right to ultimately refuse to provide electric service if these conditions are not met. If we find these conditions with an existing installation, we have the right to terminate electric service until corrections are made.**

- b. A 5-foot or greater **level** clear space must be maintained in front of meters and CT/Junction enclosures to allow for maintenance. A 10-foot clear space is required in front of OG&E pad-mounted transformers for maintenance.
- c. No customer ground connection shall be allowed in OG&E pad-mounted transformers or CT enclosures.
- d. Wiring from CTs to meter shall not exceed 20-feet in conductor length. **When CT's are located in transformer, meter shall be on free standing structure adjacent to transformer pad (U773.5, U773.6).**
- e. The maximum distance from center of CT/Junction enclosure to ground level shall not exceed 48-inches and minimum distance from bottom of CT/Junction enclosure to ground level or any obstruction is not to be less than **12-inches from final grade.**
- f. Meter centerline shall be mounted 48-inches to 60-inches above ground level. If a meter is at an elevated level it shall be accessible by stairs with proper railing. The stairs and railing shall be in compliance of OSHA requirements and shall be provided by the customer.
- g. **Multi position meter centers shall be located so the centerline of the upper most meters shall not exceed 72" above final grade and the centerline of the lowest meter shall not be less than 24" above final grade.**
- h. No more than one conductor is permitted under each terminal/lug of a meter base.
- i. A 30-inch depth **from final grade** required on service entrances.

Note: Where a service entrance is under concrete, a depth of not less than 24-inches may be permitted upon OG&E approval.

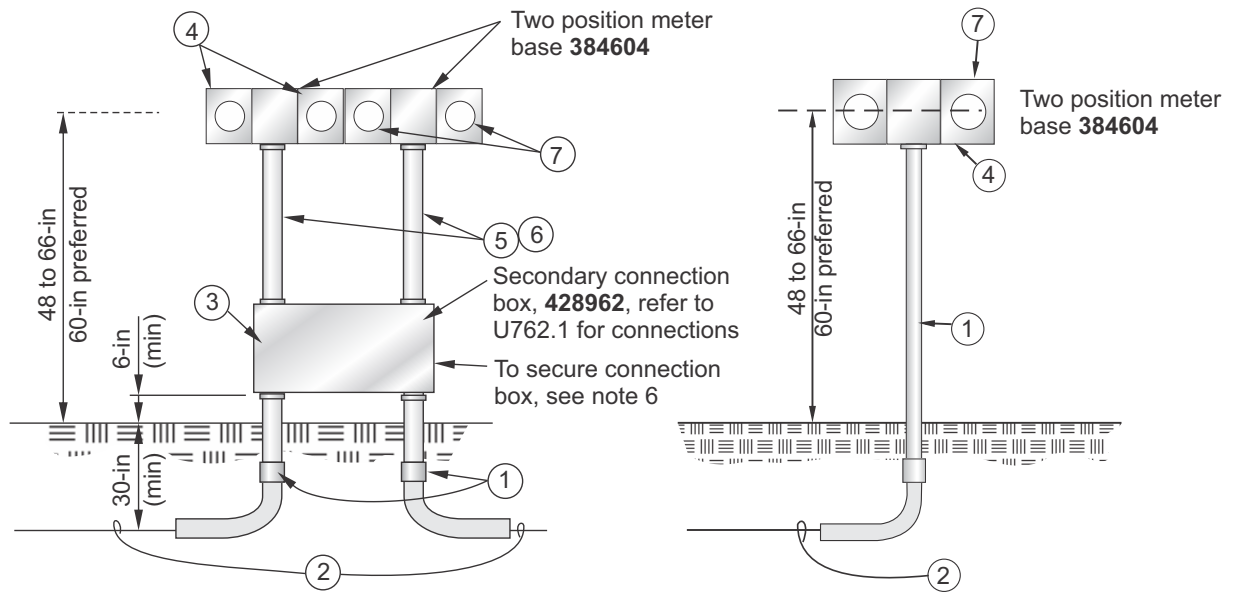
- j. When foundation obstructions exist, the following restrictions apply:
- Minimum "schedule 40" conduit must be used.
  - Maximum of (2) 45-degree elbows are permissible (if required to clear obstructions).
  - The (first) top 45-degree elbow must be at or below ground level in order to clear obstructions.
  - The (second) bottom 45-degree collar must run parallel to grade and be situated so as to ensure easy installation of OG&E service.

## METERING GUIDELINES



- k. Common point grounding blocks are not permitted to be attached to OG&E meter bases.
- l. Customers that provide their own meter disconnects or customers that have loads greater than 200-amperes at 480-volts must terminate OG&E connections in their disconnects.
- m. The use of a non-fused disconnect ahead of a self-contained meter is required for 480-volt self-contained applications and are not to be locked by customer.
- n. All upgrades and/or new construction to the metering equipment shall be installed outside either on an external wall or mounted on a free standing structure and shall not be recessed unless authorized by the Meter Department.
- o. Consumer provided meter bases must be approved by the proper OG&E authority; Operations Support Meter Specialists.
- p. No customer equipment will be permitted between the meter and the meter base.
- q. Meter locations will be in areas where possible damage to meter will be minimized. If necessary to locate metering equipment adjacent to a driveway, walkway, parking lot or any location that will subject the meter to damage, written consent shall be obtained from a qualified Company employee who will have the option to require the Customer to furnish and install protective barriers.
- r. A 5-feet wide clear path to customer's service point is required to allow access for equipment.
- s. The mobile home (manufactured home) service equipment shall be located adjacent to the mobile home and not mounted to/on the mobile home. Definition of mobile home (manufactured home) found in NEC Section 550.32.
- t. Overhead service point of attachment/weatherhead must be truck accessible (24/7) or limited to 20-feet in height (Overhead).

## METERING GUIDELINES



ITEM number	DESCRIPTION	FURNISHED BY		INSTALLED BY	
		O.G. & E.	CONSUMER	O.G. & E.	CONSUMER
‡ 1	Service Lateral Raceway		X		X
2	Service Lateral	X		X	
** 3	Secondary Connection Box	X			X
4	Meter Base	X			X
5	Service Raceway		X		X
* 6	Service Entrance Conductor		X		X
7	Meter	X		X	
* 8	Service Equipment		X		X
* 9	Grounding Electrode & Grounding Electrode Conductor		X		X

‡ Size and Number of conduits as specified by OG&E

\* Not Shown

\*\* Secondary Connection Box shall be bonded to neutral block

Notes:

1. Connection box size 30 X 36 X 14.

2. Use Schedule 40 PVC or better.

3. Refer to U16 for proper identification and marking.

4. Connection Box to be bonded to neutral block with #6-AWG copper wire.

5. OG&E equipment is to be installed on outside surface of structure and is not to be recessed.

6. Secure connection box #428962 with (3) Mac-It head bolts (3/8" x 1") #301404 upon energizing.

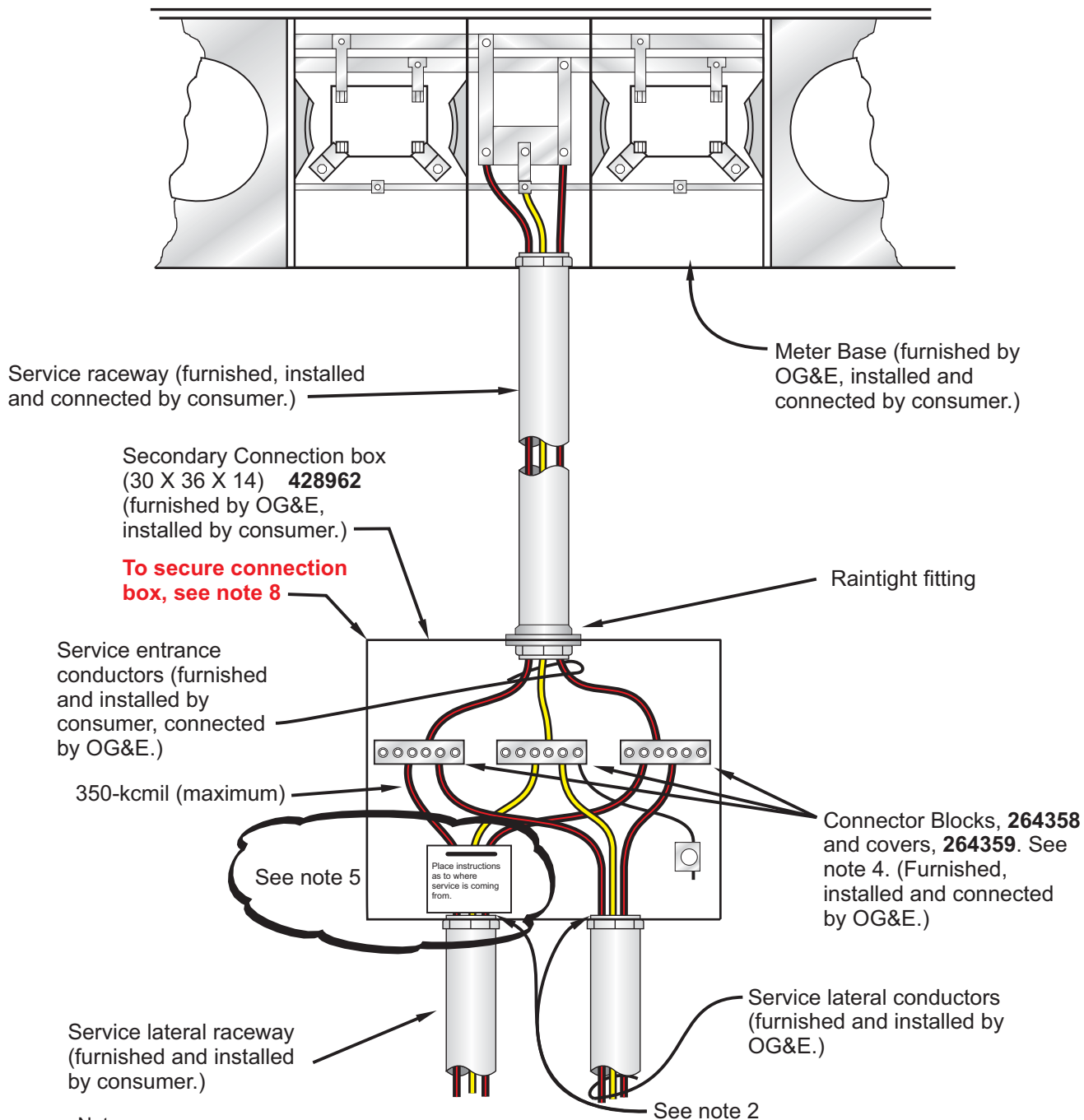
## MULTIPLE METER INSTALLATION

### 200 - AMPERE PER POSITION

### SINGLE PHASE **120/240V** SELF CONTAINED

# U762.1

UNDERGROUND STANDARD  
JUL 2016

OG&E Electric Services<sup>©</sup>

Notes:

1. Consumer to install service entrance conductors and make connections at meter enclosure.
2. Plastic bushing required for steel conduit to protect cable.
3. Connection box and blocks to be furnished by OG&E.
4. Connection Box to be bonded to neutral block with #6-AWG copper wire.
5. Place identifying tag on service conductors with information relating to where service is coming from (pedestal, transformer, pipe or no pipe under driveway.) Refer to U16 for proper identification and marking.
6. OG&E equipment is to be installed on outside surface of structure and is not to be recessed.
7. Grounding Electrode & Grounding Electrode Conductor (Not shown on Drawing) provided by and installed by customer.

**8. Secure connection box #428962 with (3) Mac-It head bolts (3/8" x 1") #301404 upon energizing.**

## CONNECTION DIAGRAM FOR MULTIPLE METER INSTALLATION SINGLE PHASE SELF CONTAINED METERS

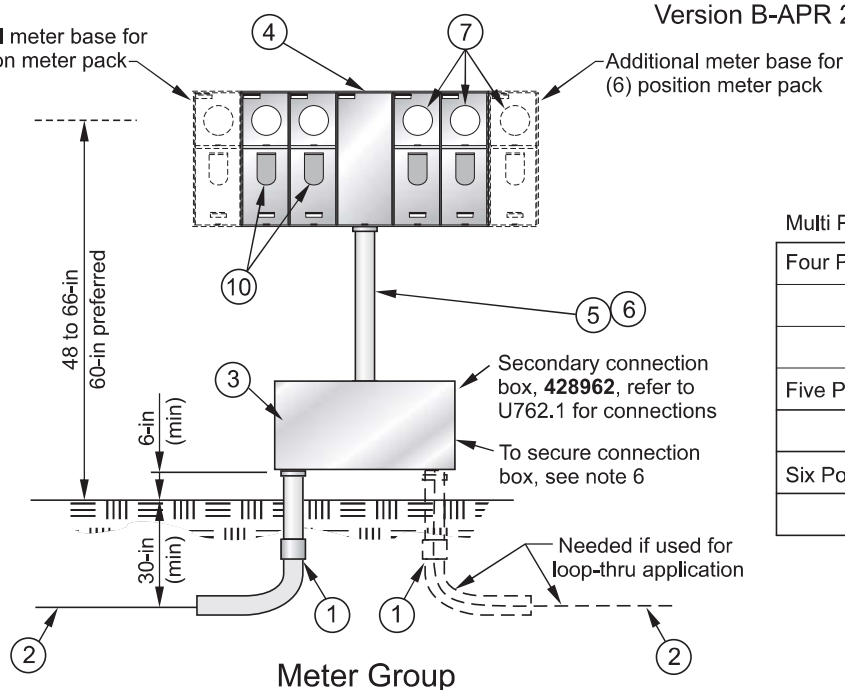
**OGI-E®**

The following is a suggested configuration for meter bases for overhead and underground meters in residential and commercial applications. OG&E Energy Corp., its subsidiaries and affiliates disclaim any liability for the construction or maintenance practices relating to such suggested configuration.

SUPERSEDES AUG 2014 ISSUE

APPROVED

**Signatures on File**

Additional meter base for  
(5) position meter pack

## Multi Position Gang Style Meter Packs

Four Position Meter Pack Material Numbers	
125 Amp -	<b>404110</b>
200 Amp -	<b>1057619</b>
Five Position Meter Pack Material Number	
125 Amp -	<b>404112</b>
Six Position Meter Pack Material Number	
125 Amp -	<b>404113</b>

ITEM number	DESCRIPTION	FURNISHED BY		INSTALLED BY	
		O.G. & E.	CONSUMER	O.G. & E.	CONSUMER
‡ 1	Service Lateral Raceway		X		X
2	Service Lateral	X		X	
** 3	Secondary Connection Box	X			X
4	Multi Position Gang Style Meter Pack	X			X
5	Service Raceway		X		X
* 6	Service Entrance Conductor		X		X
7	Meter	X		X	
* 8	Service Equipment		X		X
* 9	Grounding Electrode & Grounding Electrode Conductor		X		X
10	Circuit Breakers		X		X

‡ Size and Number of conduits as specified by OG&amp;E

\* Not Shown

\*\* Secondary Connection Box shall be bonded to neutral block

## Notes:

1. Connection box size 30 X 36 X 14.

2. Use Schedule 40 PVC or better.

3. Refer to U16, notes 4, 5, and 6.

4. Connection Box to be bonded to neutral block with #6-AWG copper wire.

5. OG&amp;E equipment is to be installed on outside surface of structure and is not to be recessed.

6. Secure connection box #428962 with (3) Mac-It head bolts (3/8" x 1") #301404 upon energizing.

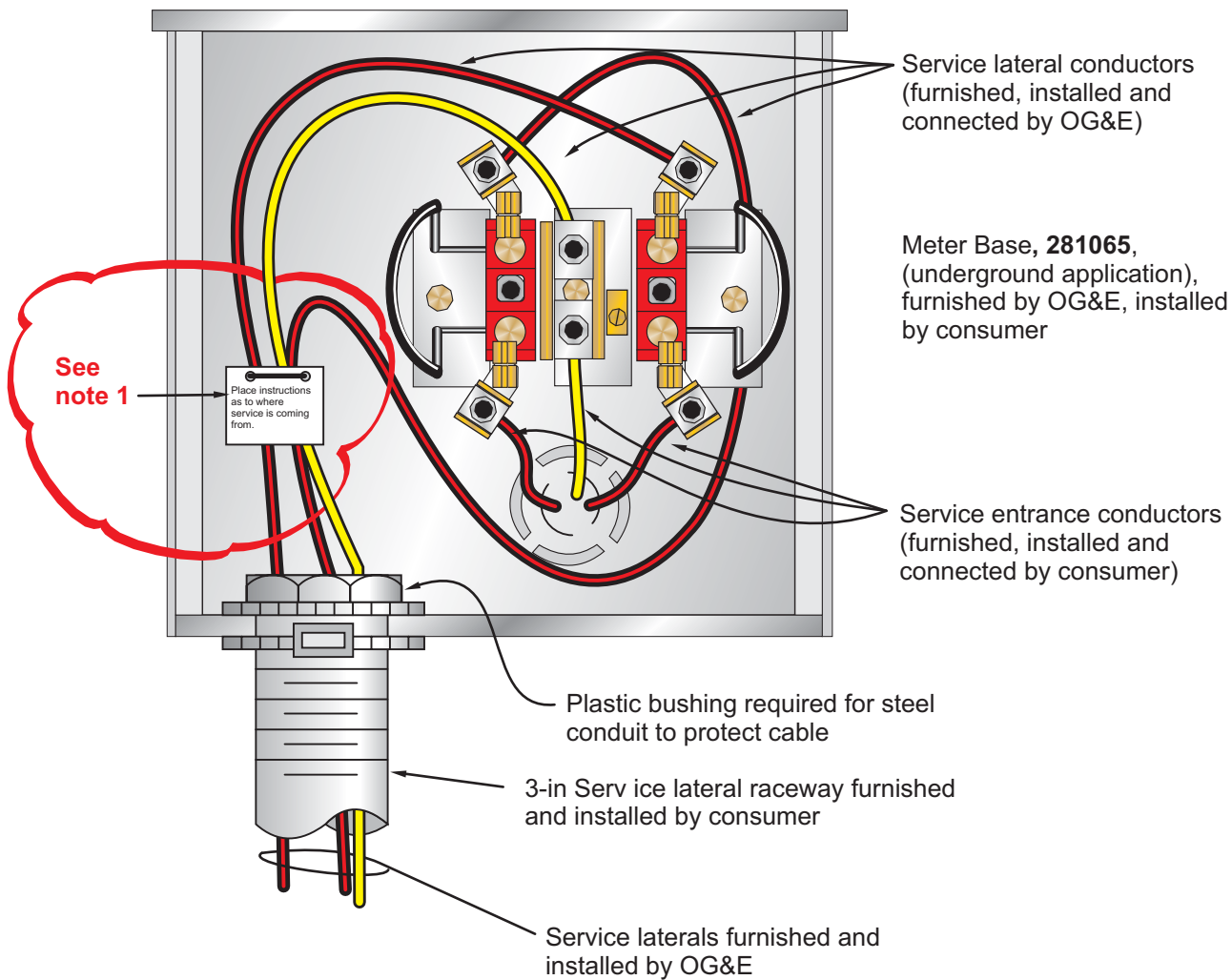
## MULTIPLE METER INSTALLATION

### SINGLE PHASE 120/240-VOLTS      SELF CONTAINED

# U762.3

UNDERGROUND STANDARD  
MAR 2006

OG&E Electric Services<sup>®</sup>



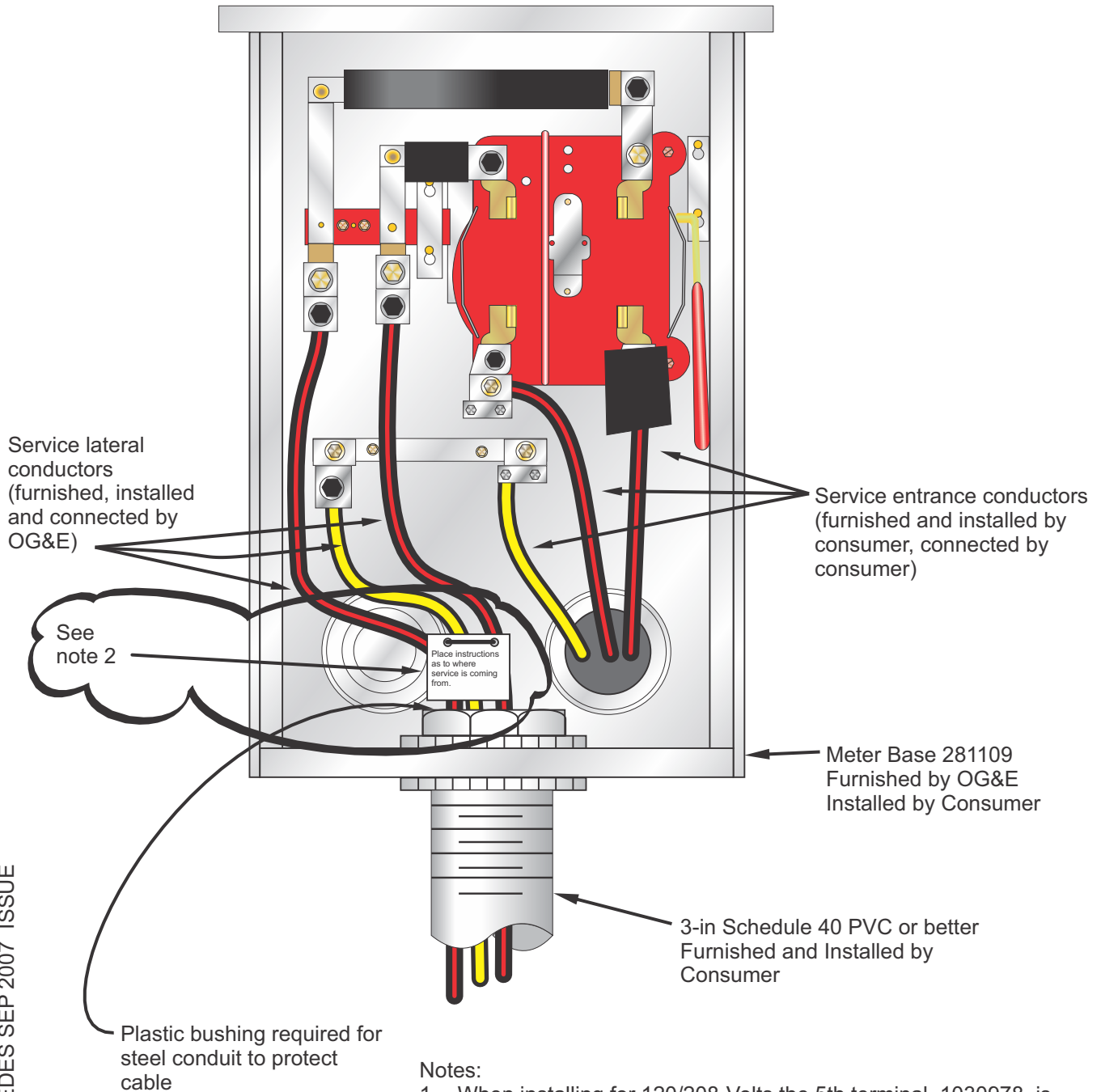
## Notes:

1. Place identifying tag on service conductors with information relating to where service is coming from (pedestal, transformer, pipe or no pipe under driveway.) Refer to U16.

**OG&E<sup>®</sup>** CONNECTION DIAGRAM  
SINGLE PHASE 200-AMPERES MAXIMUM

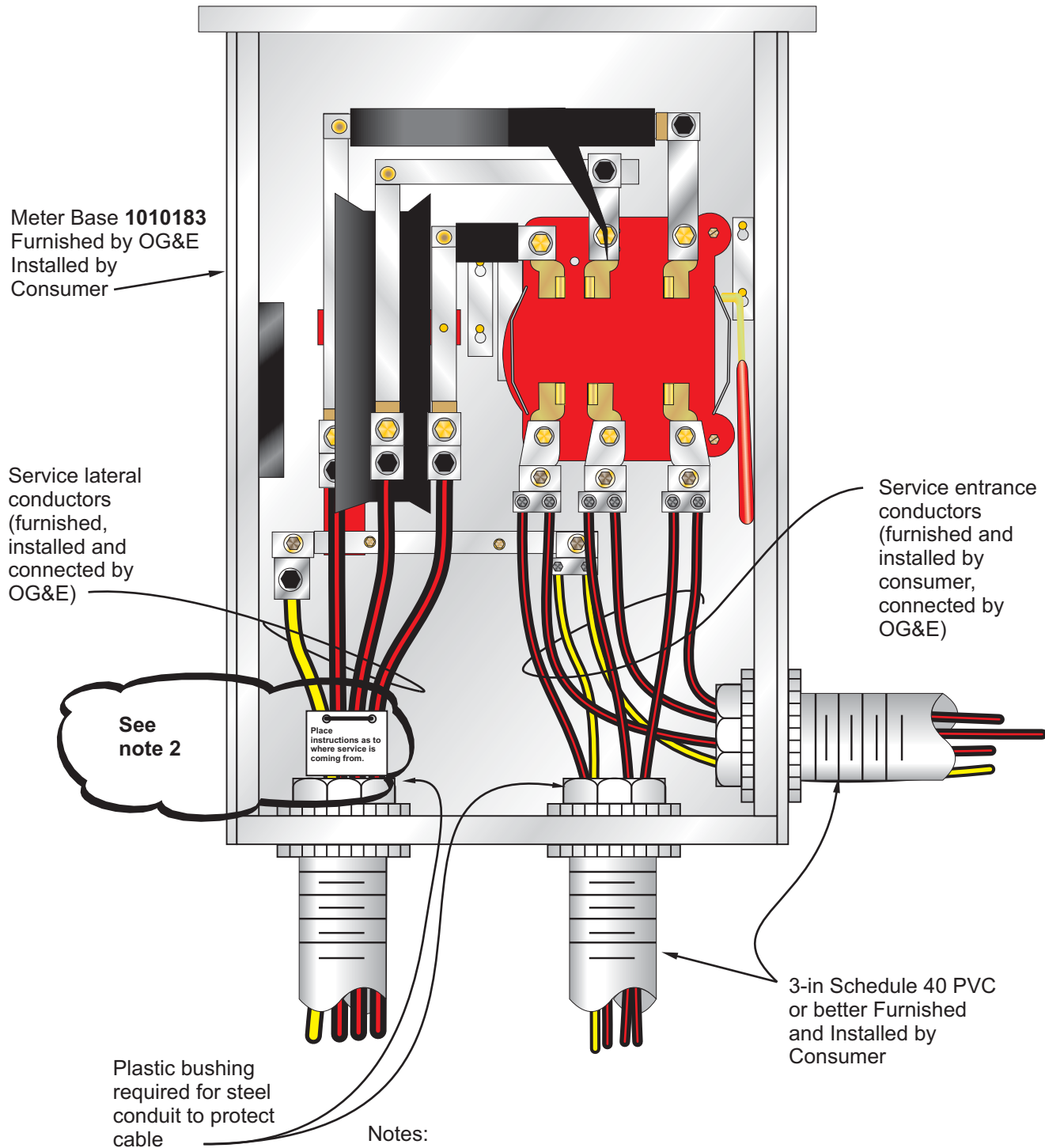
SUPERSEDES JUN 2005 ISSUE  
APPROVED **Signatures on File**

The following is a suggested configuration for meter bases for overhead and underground meters in residential and commercial applications. OG&E Energy Corp., its subsidiaries and affiliates disclaim any liability for the construction or maintenance practices relating to such suggested configuration.

**Notes:**

1. When installing for 120/208-Volts the 5th terminal, 1030978, is required.
2. Place identifying tag on service conductors with information relating to where service is coming from (pedestal, transformer, pipe or no pipe under driveway.) Refer to U16.

**CONNECTION DIAGRAM****SINGLE PHASE, 240 VOLT MAXIMUM, 320-AMPERES MAXIMUM**



Notes:

1. For 277/480 refer to U765 and U765.1 for installation
2. Place identifying tag on service conductors with information relating to where service is coming from (pedestal, transformer, pipe or no pipe under driveway.) Refer to U16.

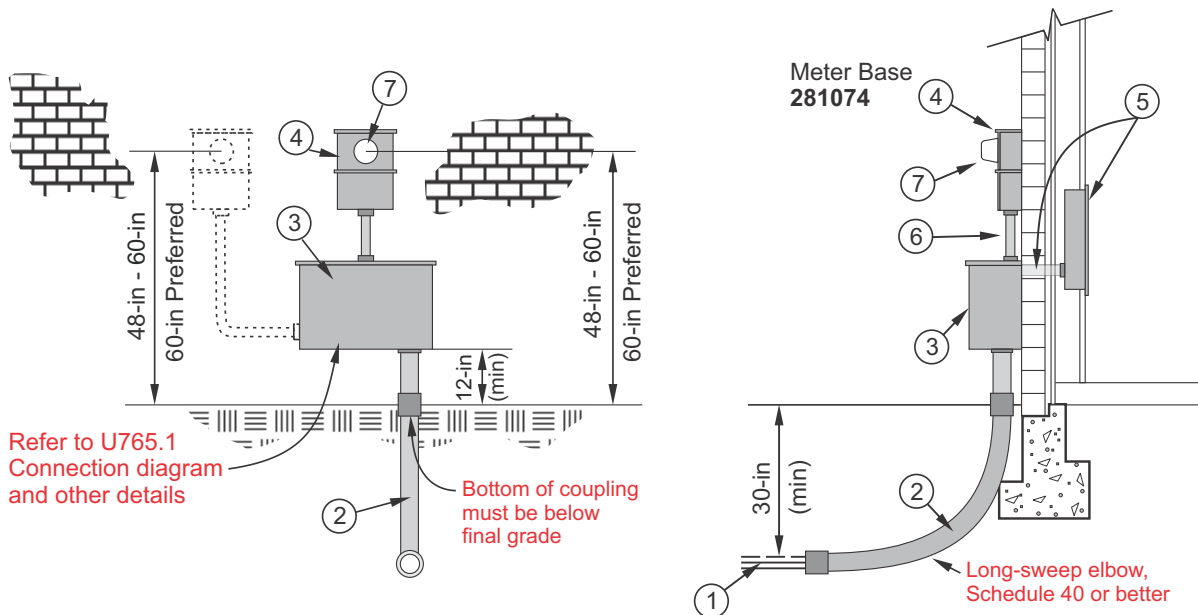
## CONNECTION DIAGRAM

### THREE PHASE 320 AMPERE MAXIMUM

### SERVICE VOLTAGE 120/240 AND 120/208-Volts

The following is a suggested configuration for meter bases for overhead and underground meters in residential and commercial applications. OG&E Energy Corp., its subsidiaries and affiliates disclaim any liability for the construction or maintenance practices relating to such suggested configuration.





ITEM Number	DESCRIPTION	FURNISHED BY		INSTALLED BY	
		O.G.&E.	CONSUMER	O.G.&E.	CONSUMER
1	Service Lateral	X		X	
‡ 2	Service Lateral Raceway		X		X
** 3	Current Transformer Enclosure	X			X
+ 4	Transformer rated Meter Base	X			X
5	Service Equipment		X		X
6	Metering Conduit 1-inch		X		X
7	Meter	X		X	
* 8	Grounding Electrode & Grounding Electrode Conductor		X		X

‡ Size and number of conduits as specified by OG&E

+ Alternate location is shown dotted

\*\* Current transformer enclosure shall be bonded to neutral block

\* Not shown

Notes:

- Where metering equipment is exposed to vehicular traffic a protective pipe should be installed in concrete 4-ft in front of metering equipment.
- Wiring from CTs to meter is not to exceed 20 feet in total length.
- OG&E equipment is to be installed on outside surface of structure and is not to be recessed.
- Refer to U16 for proper identification and marking.
- Refer to U760 & U760.1 for metering requirements.
- CT Cabinet is not to be used for equipment grounds or as a raceway.**

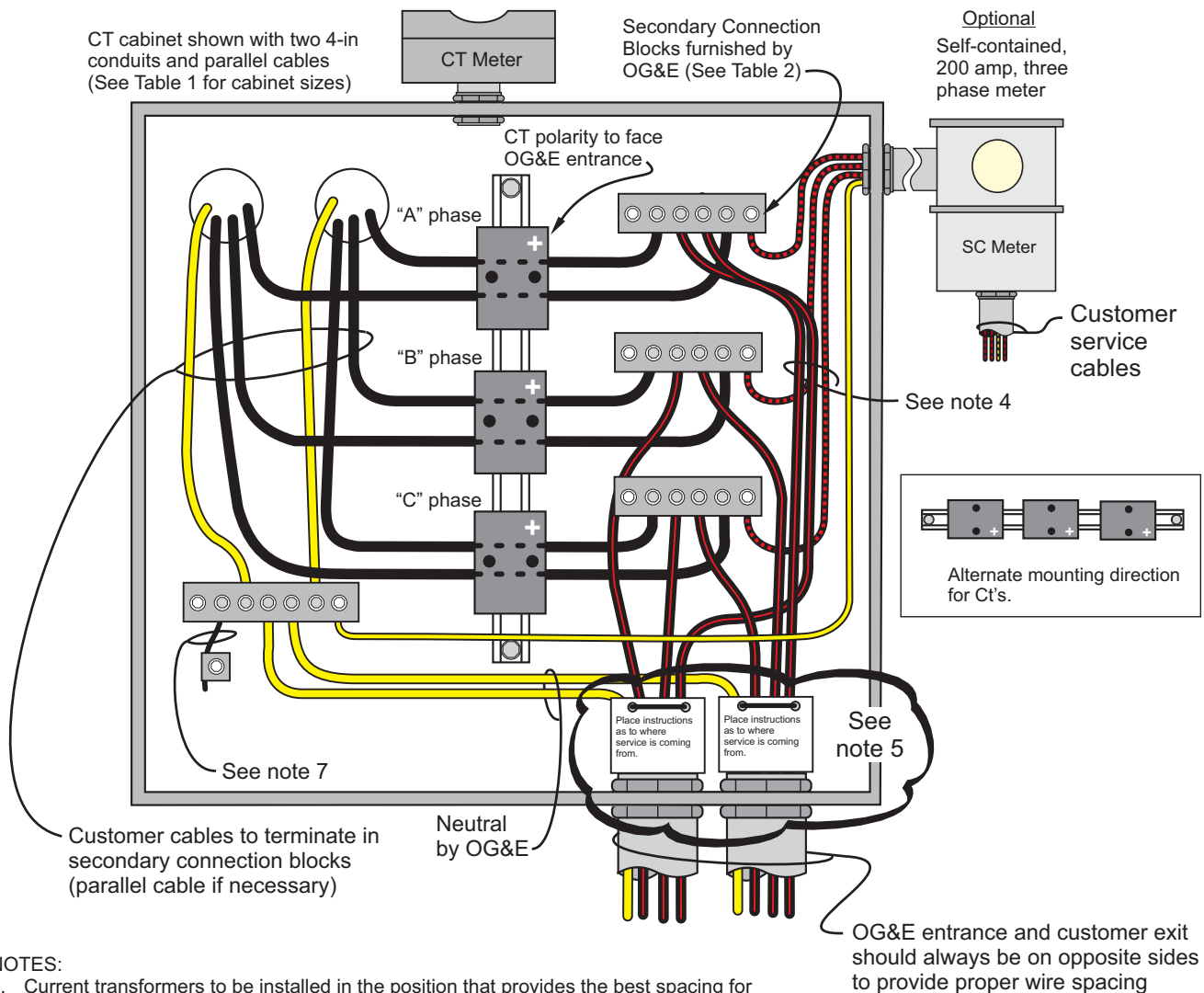
## METER INSTALLATION FOR CURRENT TRANSFORMER METERING SINGLE AND EXISTING 3 PHASE ONLY 800A MAXIMUM



# U765.1

UNDERGROUND STANDARD  
Version I - JUN 2021

OG&E Electric Services<sup>®</sup>



## NOTES:

1. Current transformers to be installed in the position that provides the best spacing for line and load conductors.
2. Service and metering connections made by OG&E.
3. Verify that customer has established a driven ground at their main switch panels.
4. Position supply cable to center of connector block.
5. Place identifying tag on service conductors with information relating to where service is coming from (pedestal, transformer, pipe or no pipe under driveway.) Refer to U16.
6. Wiring from CTs to CT meter is not to exceed 20 feet in total length.
7. OG&E to bond CT cabinet to neutral block using #6AWG copper wire.
8. Secure connection box #428962 with (3) Mac-It head bolts (3/8" x 1") #301404 upon energizing.
9. Not to be used for equipment grounds or as a raceway.

TABLE 1

STOCK ACCOUNT	CABINET DIMENSIONS
428962	30 x 36 x 14

CONNECTOR BLOCKS TABLE 2

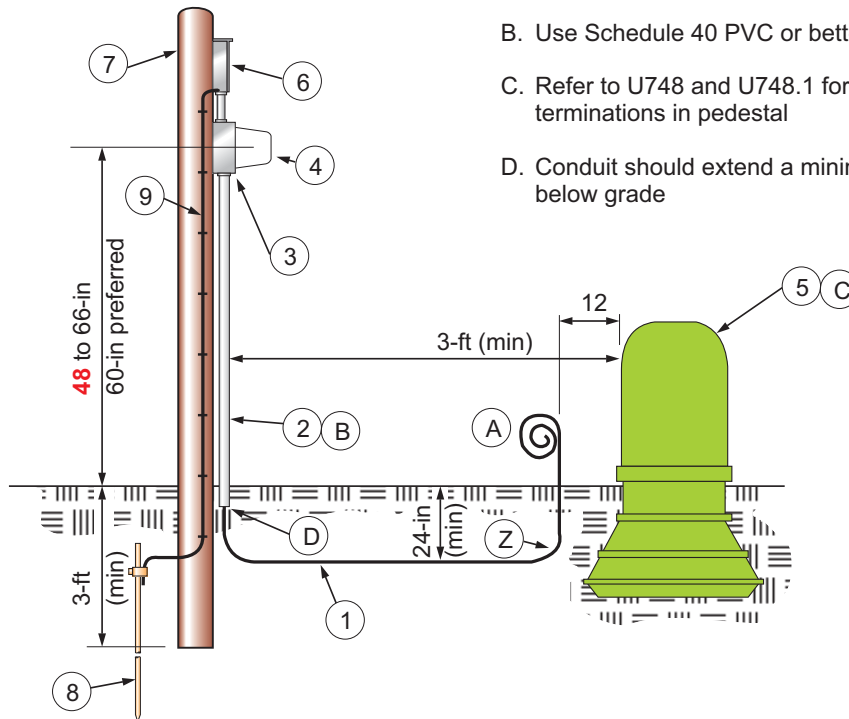
STOCK ACCOUNT	SECONDARY TAPS	SERVICE TAPS	MAX CURRENT
264358	2 6-AWG thru 350-KCMIL	2 6-AWG thru 350-KCMIL	600
264195	2 6-AWG thru 500-KCMIL	4 6-AWG thru 500-KCMIL	800
1019876	2 0-AWG thru 750-KCMIL	4 0-AWG thru 750-KCMIL	1200
264224	2 0-AWG thru 750-KCMIL	8 0-AWG thru 750-KCMIL	1200

**CONNECTION DIAGRAM**  
**WITH OPTIONAL SELF-CONTAINED METER**  
**SINGLE OR EXISTING 3 PHASE ONLY 800A MAX**

The following is a suggested configuration for meter bases for overhead and underground meters in residential and commercial applications. OG&E Energy Corp., its subsidiaries and affiliates disclaim any liability for the construction or maintenance practices relating to such suggested configuration.

## NOTES:

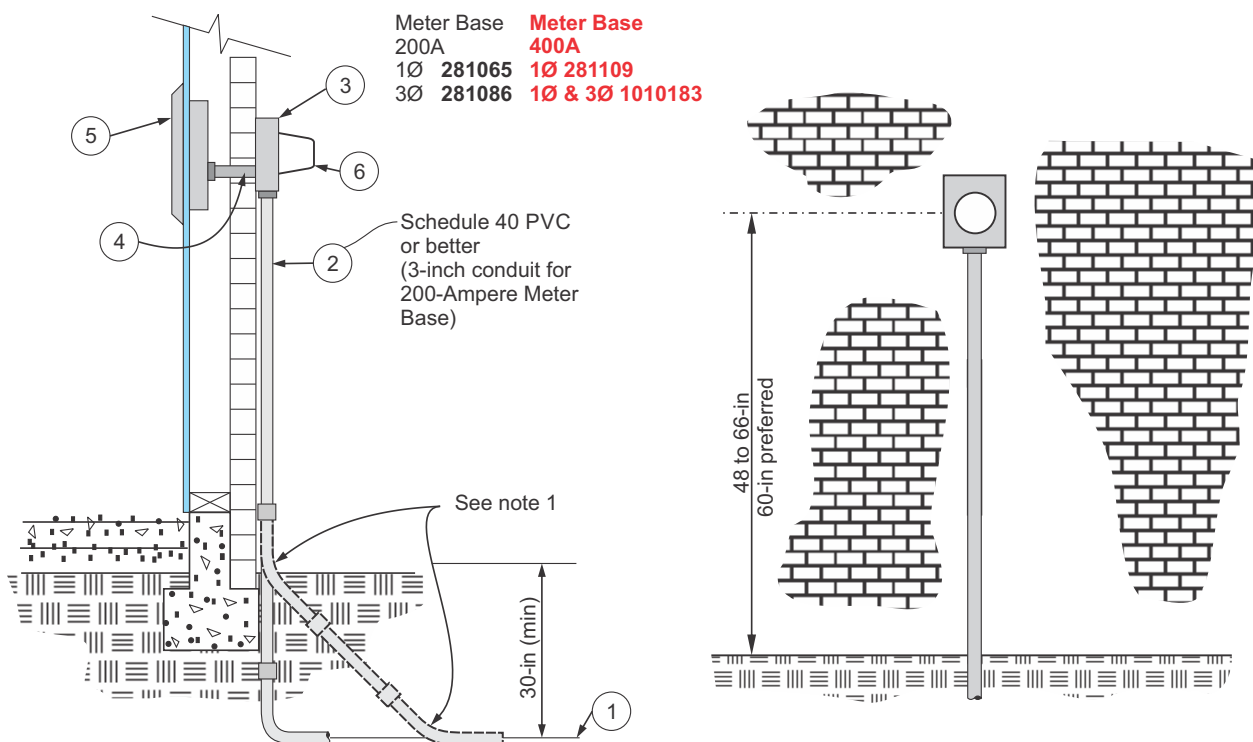
- A. Consumer shall leave 6-ft of cable beyond point Z
- B. Use Schedule 40 PVC or better
- C. Refer to U748 and U748.1 for details on terminations in pedestal
- D. Conduit should extend a minimum of 18-inches below grade



ITEM NUMBER	DESCRIPTION	FURNISHED BY		INSTALLED BY	
		O.G.&E.	CONSUMER	O.G.&E.	CONSUMER
1	Temporary Service Lateral		X		X
2	Service Lateral Raceway		X		X
3	Meter Base	X			X
4	Meter	X		X	
5	Service Pedestal	X		X	
6	Service Equipment		X		X
7	Treated Support		X		X
8	Grounding Electrode		X		X
9	Grounding Electrode Conductor		X		X

## TEMPORARY SERVICE

### 3-WIRE, SINGLE-PHASE 240/120-VOLTS



ITEM NUMBER	DESCRIPTION	FURNISHED BY		INSTALLED BY	
		O.G. & E.	CONSUMER	O.G. & E.	CONSUMER
1	Service Lateral	X		X	
2	Service Lateral Raceway		X		X
3	Meter Base	X			X
4	Service Raceway		X		X
5	Service Equipment		X		X
6	Meter	X		X	
*7	Grounding Electrode & Grounding Electrode Conductor		X		X

\* Not Shown

Notes:

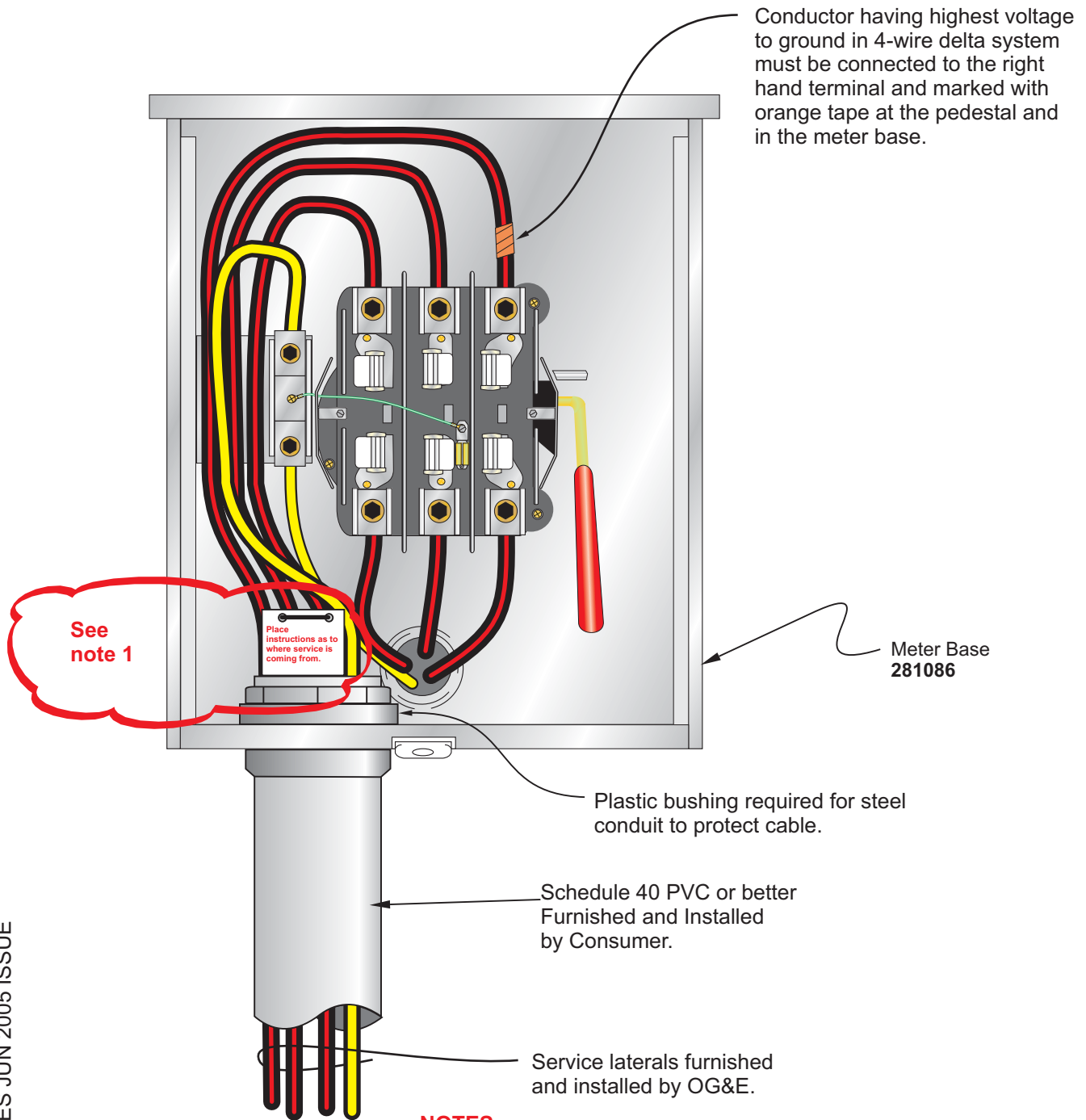
- When foundation obstructions exist, the use of schedule 40 (minimum) conduit with (2) 45-degree elbows to clear obstructions is permissible. The top 45-degree elbow is to be at or below ground level.
- OG&E equipment is to be installed on outside surface of structure and is not to be recessed.
- Refer to U16 for proper identification and marking.

## METER INSTALLATION

### FOR SELF-CONTAINED SINGLE PHASE OR THREE PHASE METER

### 208Y/120 OR 240Δ /120 OR 240/120 VOLTS

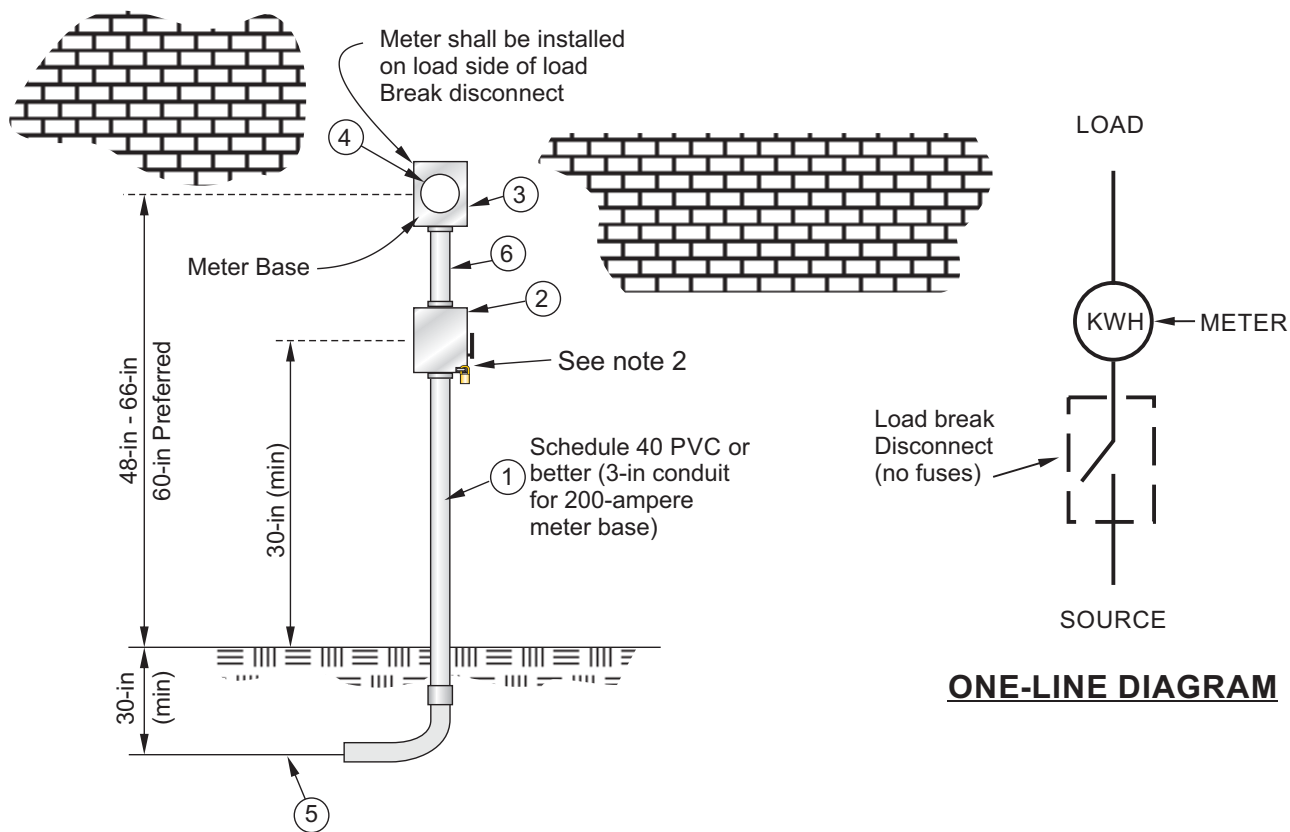
### 400-AMPERES MAXIMUM

**NOTES:**

1. Place identifying tag on service conductors with information relating to where service is coming from (pedestal, transformer, pipe or no pipe under driveway.) Refer to U16

**CONNECTION DIAGRAM**

**FOR SELF-CONTAINED THREE PHASE FOUR WIRE METER  
208Y/120 OR 240Δ/120 VOLT      200-AMPERE MAXIMUM**



ITEM NO.	DESCRIPTION	FURNISHED BY		INSTALLED BY	
		O.G. & E.	CONSUMER	O.G. & E.	CONSUMER
1	Service Lateral Raceway		X		X
2	Load-Break Disconnect	See Note 1	X		X
3	Meter Base	X			X
4	Self-Contained Meter	X		X	
5	Service Lateral	X		X	
6	Service Raceway		X		X
* 7	Service Equipment		X		X
* 8	Grounding Electrode & Grounding Electrode Conductor		X		X

\* Not Shown

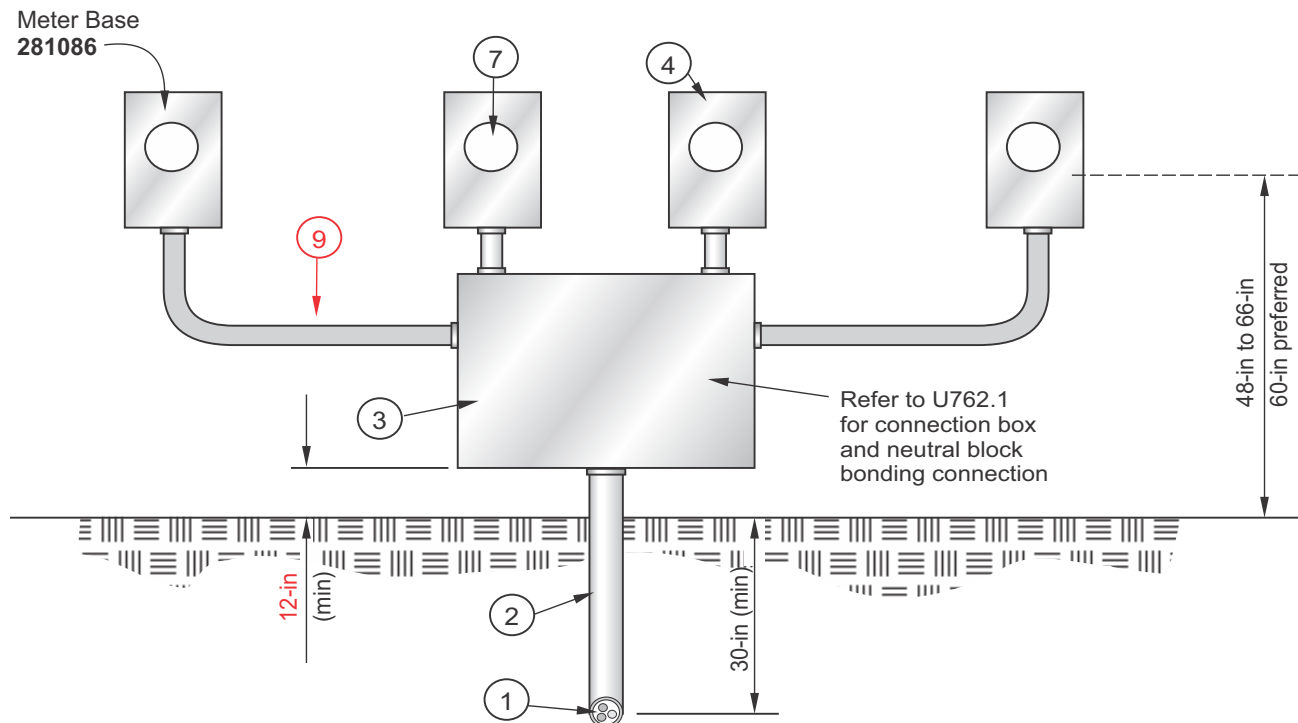
Notes:

- OG&E to furnish Load-Break Disconnect for 480-volt service in Arkansas
- OG&E to secure load-break disconnect box with series 1 lock (**stk#301236**).
- OG&E equipment is to be installed on outside surface of structure and is not to be recessed.
- Refer to U16 for proper identification and marking.

**5. Refer to U760 and U760.1**

## METER INSTALLATION FOR SELF-CONTAINED METER

**480 OR 480Y/277-VOLTS 200-AMPERES MAXIMUM**



Item Number	DESCRIPTION	FURNISHED BY		INSTALLED BY	
		O.G.&E.	CONSUMER	O.G.&E.	CONSUMER
1	Service Lateral	X		X	
‡ 2	Service Lateral Raceway		X		X
** 3	Secondary Connection Box	X			X
4	Meter Base	X			X
* 5	Service Equipment		X		X
* 6	Service Entrance Conductor		X		X
7	Meter	X		X	
* 8	Grounding Electrode & Grounding Electrode Conductor		X		X
9	Service Raceway		X		X

‡ Size and Number of conduits as specified by OG&E

\* Not Shown

\*\* Secondary Connection Box shall be bonded to neutral block

Notes:

1. OG&E equipment is to be installed on outside surface of structure and is not to be recessed.

2. Refer to U16 for proper identification and marking.

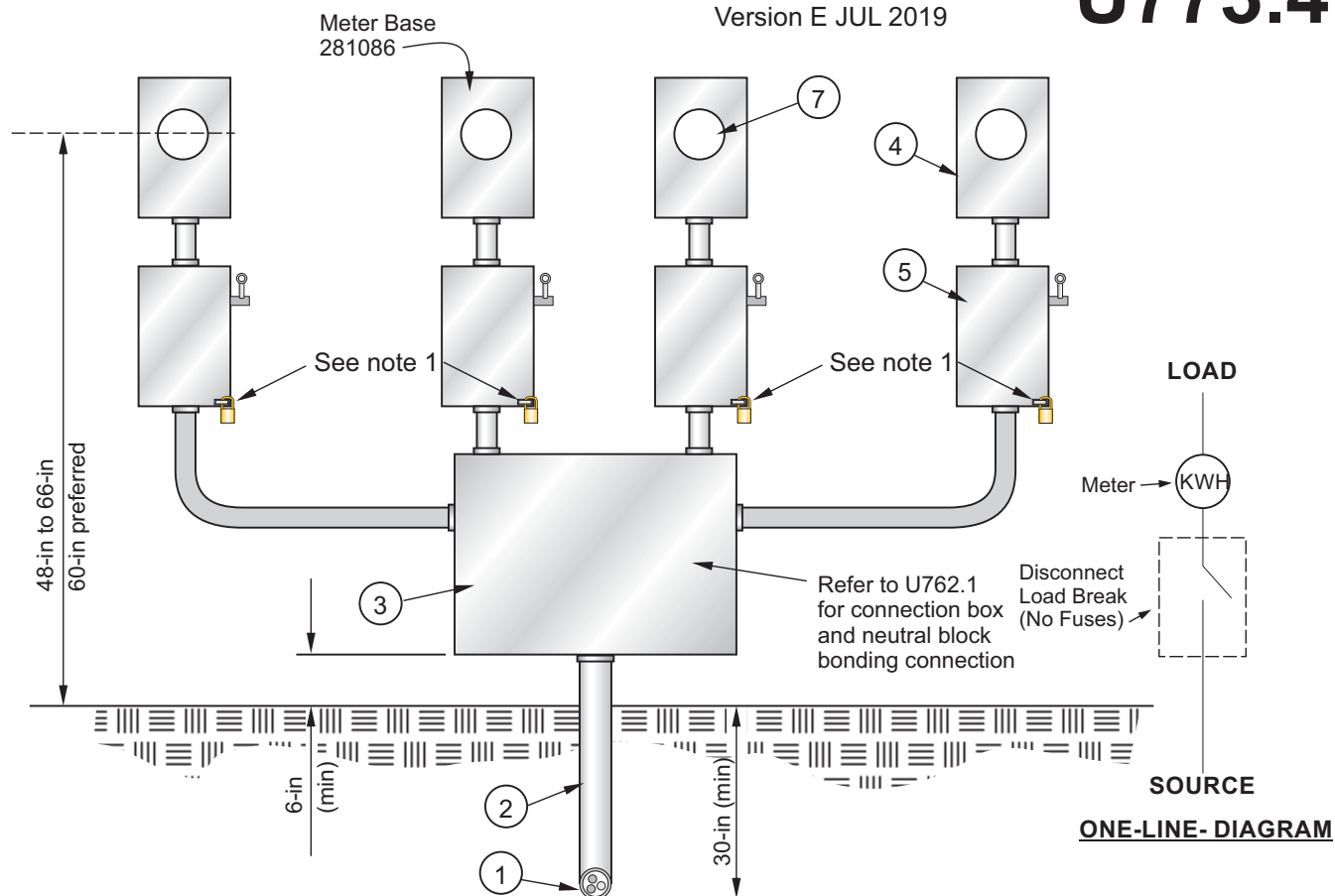
## GROUP METER INSTALLATION

200-AMPERE PER POSITION

120/240Δ-120/208Y

SELF CONTAINED-THREE PHASE

SUPERSEDES AUG 2014 ISSUE  
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Item Number	DESCRIPTION	FURNISHED BY		INSTALLED BY	
		O.G.&E.	CONSUMER	O.G.&E.	CONSUMER
1	Service Lateral	X		X	
‡2	Service Lateral Raceway		X		X
**3	Secondary Connection Box	X			X
4	Meter Base	X			X
5	Load-Break Disconnect	See note 2	X		X
*6	Service Entrance Conductor		X		X
7	Meter	X		X	
*8	Service Equipment		X		X
*9	Grounding Electrode & Grounding Electrode Conductor		X		X

‡ Size and Number of conduits as specified by OG&E

\* Not Shown

\*\* Secondary Connection Box shall be bonded to neutral block

Notes:

1. OG&E to secure load-break disconnect box with series 1 lock (**stk#301236**).

2. OG&E to furnish Load-Break Disconnect for 480-volt service in Arkansas.

3. OG&E equipment is to be installed on outside surface of structure and is not to be recessed.

4. Refer to U16 for proper identification and marking.

5. Refer to U760 and U760.1

## GROUP METER INSTALLATION

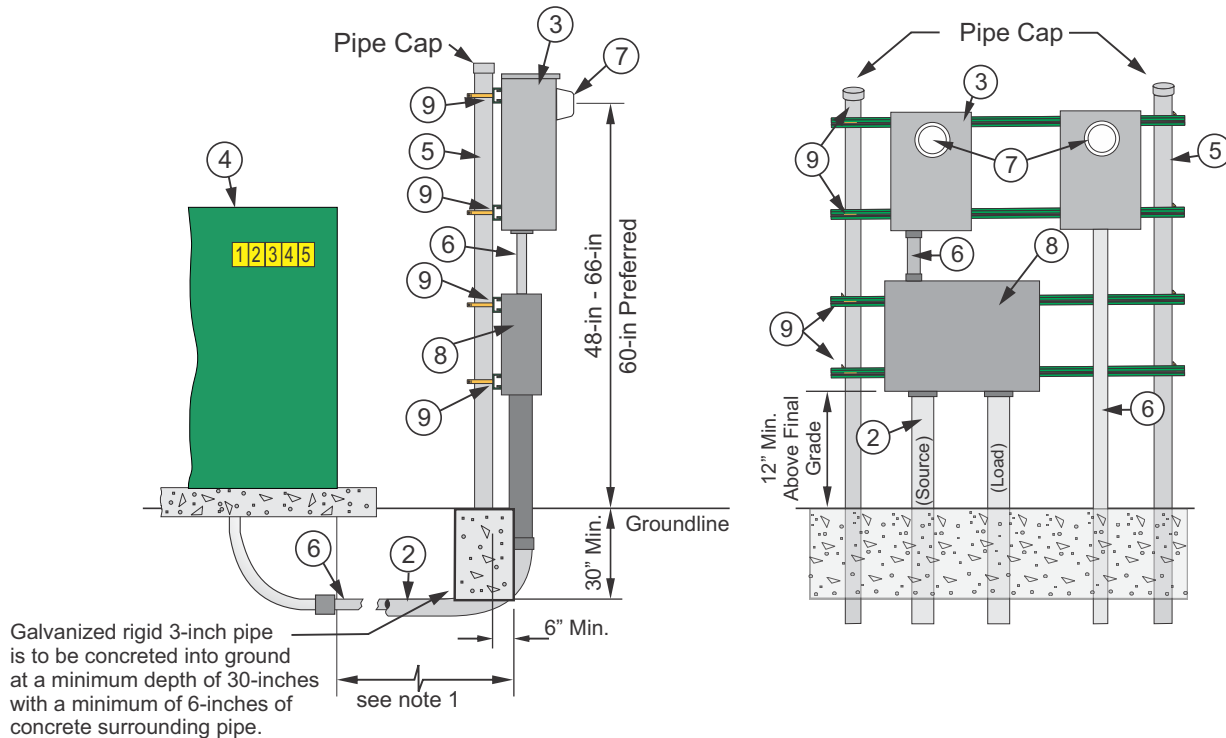
### 200-AMPERE PER POSITION

**480Δ OR 480Y/277-VOLTS SELF CONTAINED-THREE PHASE**

# U773.51

UNDERGROUND STANDARD  
Version I - MAY 2021

OG&E Electric Services®



ITEM Number	DESCRIPTION	FURNISHED BY		INSTALLED BY	
		O.G.&E.	CONSUMER	O.G.&E.	CONSUMER
1	Service Lateral	X		X	
‡ 2	Service Lateral Raceway		X		X
3	CT Meter Base	X			X
4	Transformer	X		X	
5	3-inch Galvanized Rigid Pipe set in concrete		X		X
6	Metering Conduit 1-inch sch 40		X		X
7	Meter	X		X	
* 8	CT Cabinet	X			X
9	1 5/8-inch Kindorf and Clamps		X		X

‡ Size and number of conduits as specified by OG&E

\* Secondary Connection Box shall be bonded to neutral block

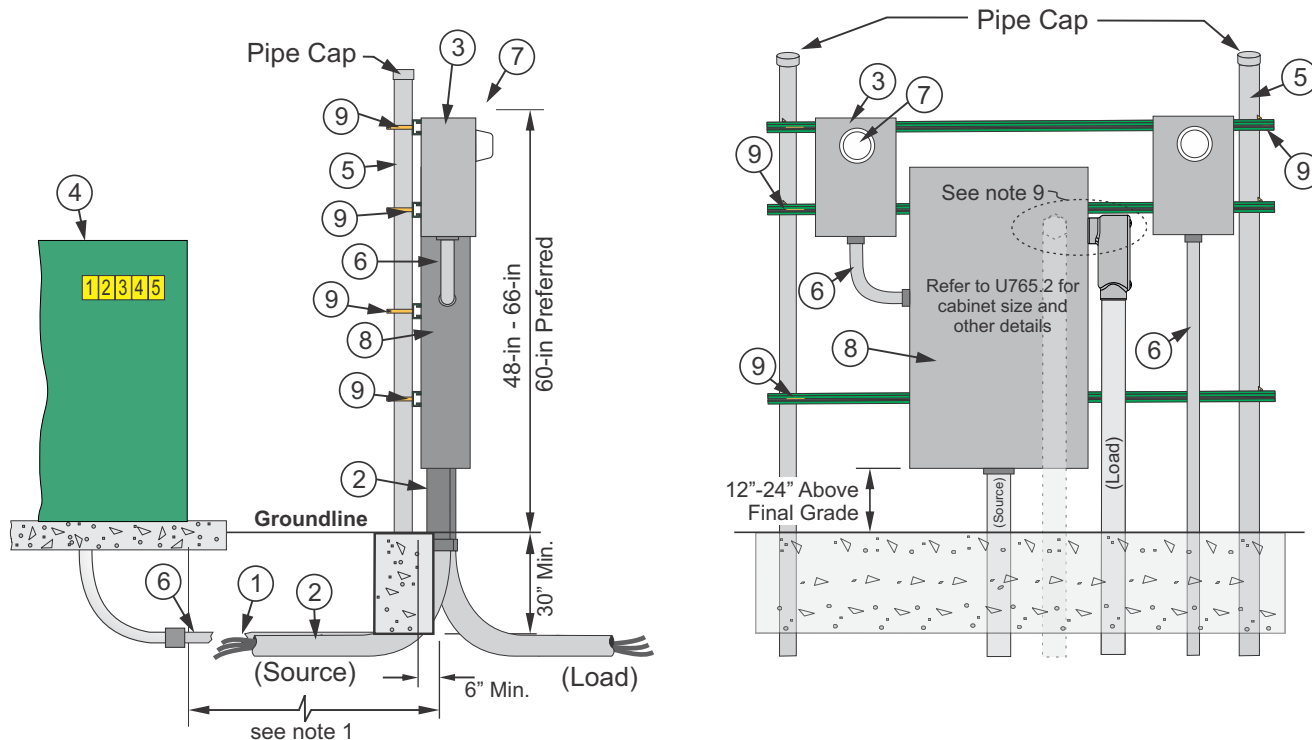
## Notes

1. Metering to be on free-standing structure adjacent to transformer pad. CT wiring not to exceed 20 feet in total length.
2. Place caps on top of pipes to keep moisture from inside of pipe to prevent deterioration.
3. Pipe to be galvanized rigid 3-inch pipe. Pipe to be set at a minimum depth of 30-inches with a minimum of 6-inches of concrete surrounding pipe.
4. When two customers are to be served from one transformer or the CT Box and meter cannot be on a building, place two pipes with 1-5/8-inch Kindorf between pipes to attach equipment.
5. CT boxes on double support option could be fastened to back side of supports when needed.
6. Refer to U562.\* For CT Installations.
7. Refer to U16 for proper identification and marking.
8. In order for the meter to be accessible for operation and maintenance, a minimum of 4 feet clearance from all obstructions must be maintained in front of the meter.
9. Cabinet not to be used for equipment grounds or as a raceway.

## CT METERING COMPONENTS INSTALLATION INSTRUCTIONS WHEN MORE THAN ONE CUSTOMER IS SERVED FROM TRANSFORMER SINGLE OR EXISTING THREE PHASE 800A MAX

SUPERSEDES SEPT 2018 ISSUE  
APPROVED **Signatures on file**





ITEM Number	DESCRIPTION	FURNISHED BY		INSTALLED BY	
		O.G.&E.	CONSUMER	O.G.&E.	CONSUMER
1	Service Lateral	X		X	
‡ 2	Service Lateral Raceway		X		X
3	CT Meter Base	X			X
4	Transformer	X		X	
5	3-inch Galvanized Rigid Pipe set in concrete		X		X
6	Metering Conduit 1-inch sch 40		X		X
7	Meter	X		X	
*8	CT Cabinet	X			X
9	1 5/8-inch Kindorf and Clamps		X		X

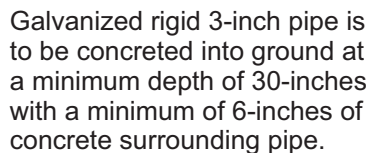
‡ Size and number of conduits as specified by OG&E

\* Secondary Connection Box shall be bonded to neutral block

#### Notes

1. Metering to be on free-standing structure adjacent to transformer pad. CT wiring not to exceed 20 feet in total length.
2. Place caps on top of pipes to keep moisture from inside of pipe to prevent deterioration.
3. Pipe to be galvanized rigid 3-inch pipe. Pipe to be set at a minimum depth of 30-inches with a minimum of 6-inches of concrete surrounding pipe.
4. When two customers are to be served from one transformer or the CT Box and meter cannot be on a building, place two pipes with 1-5/8-inch Kindorf between pipes to attach equipment.
5. CT boxes on double support option could be fastened to back side of supports when needed.
6. Refer to U562.\* For CT Installations.
7. Refer to U16 for proper identification and marking.
8. In order for the meter to be accessible for operation and maintenance, a minimum of 4 feet clearance from all obstructions must be maintained in front of the meter.
9. Load/Customer entrance to cabinet from side or back, refer to U765.2 for details.

## CT METERING COMPONENTS INSTALLATION INSTRUCTIONS WHEN MORE THAN ONE CUSTOMER IS SERVED FROM TRANSFORMER 1200 AMPERES MAXIMUM



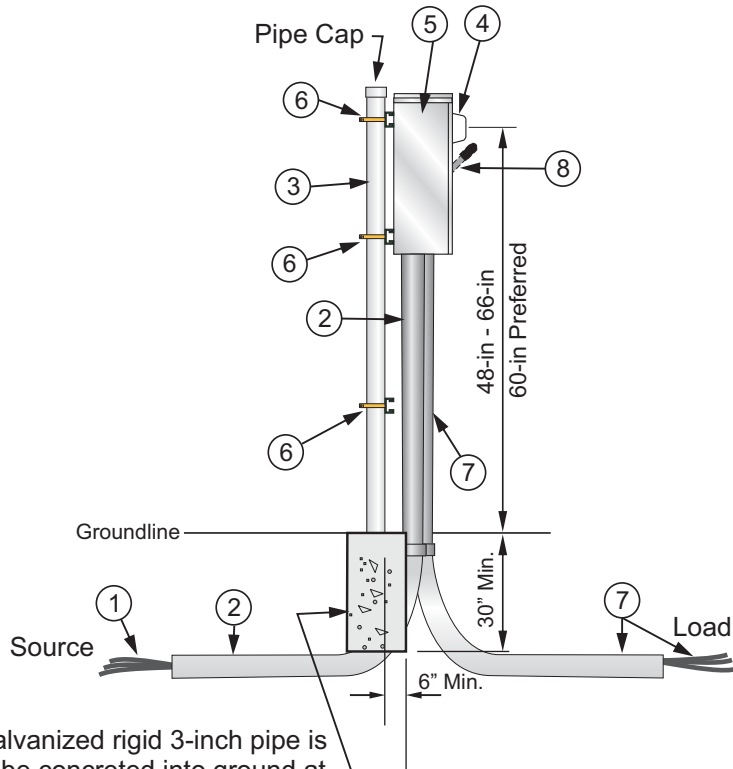
1. **Metering to be on free-standing structure adjacent to transformer pad. CT wiring not to exceed 20 feet in total length.**
2. Place cap on top of pipe to keep moisture from inside of pipe to prevent deterioration.
3. Pipe to be galvanized rigid 3-inch pipe. Pipe to be set at a minimum depth of 30-inches with a minimum of 6-inches of concrete surrounding pipe.
3. In order for the meter to be accessible for operation and maintenance, a minimum of 4 feet clearance from all obstructions must be maintained in front of the meter.
4. Refer to U16 for proper identification and marking.

# CT METERING COMPONENTS INSTALLATION INSTRUCTIONS ONE CUSTOMER AND CT'S IN TRANSFORMER THREE-PHASE ONLY

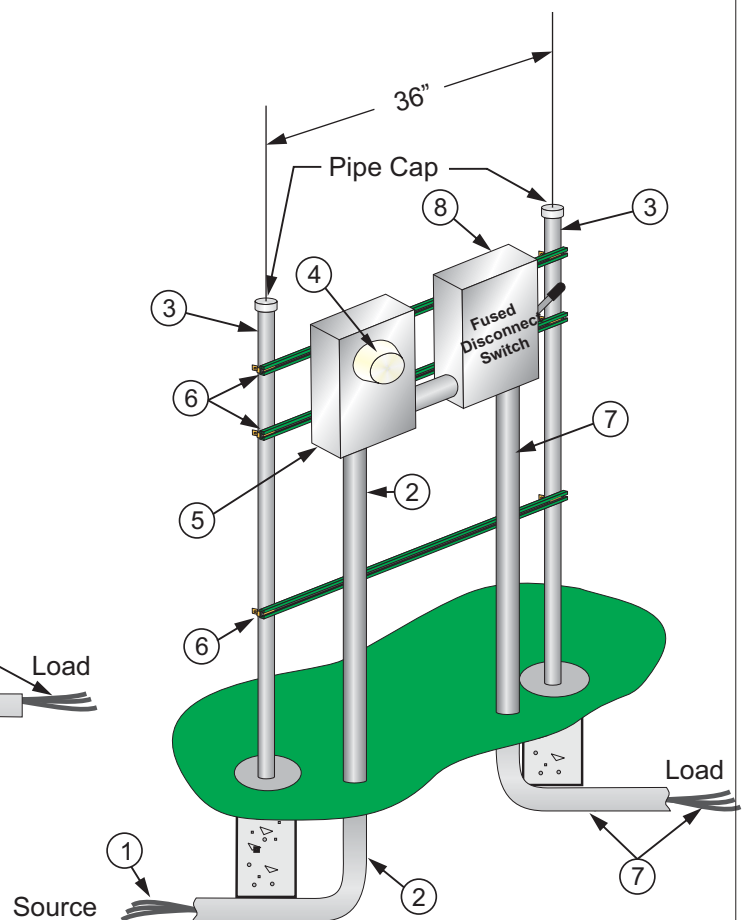
# U773.7

UNDERGROUND STANDARD  
Version G - JUN 2019

OG&E Electric Services<sup>®</sup>



Galvanized rigid 3-inch pipe is to be concreted into ground at a minimum depth of 30-inches with a minimum of 6-inches of concrete surrounding pipe.



ITEM Number	DESCRIPTION	FURNISHED BY		INSTALLED BY	
		O.G.&E.	CONSUMER	O.G.&E.	CONSUMER
1	Service Lateral	X		X	
± 2	Service Lateral Raceway & 90° Bend		X		X
3	3-inch Galvanized Rigid Pipe set in concrete		X		X
4	Meter	X		X	
5	Meter Base	X			X
6	1 5/8-inch Kindorf and Clamps		X		X
7	Conduit and wire		X		X
8	Fused/Breaker Disconnect Switch		X		X
*9	Grounding Electrode & Grounding Electrode Conductor		X		X

± 3" Schedule 40

\* Not shown

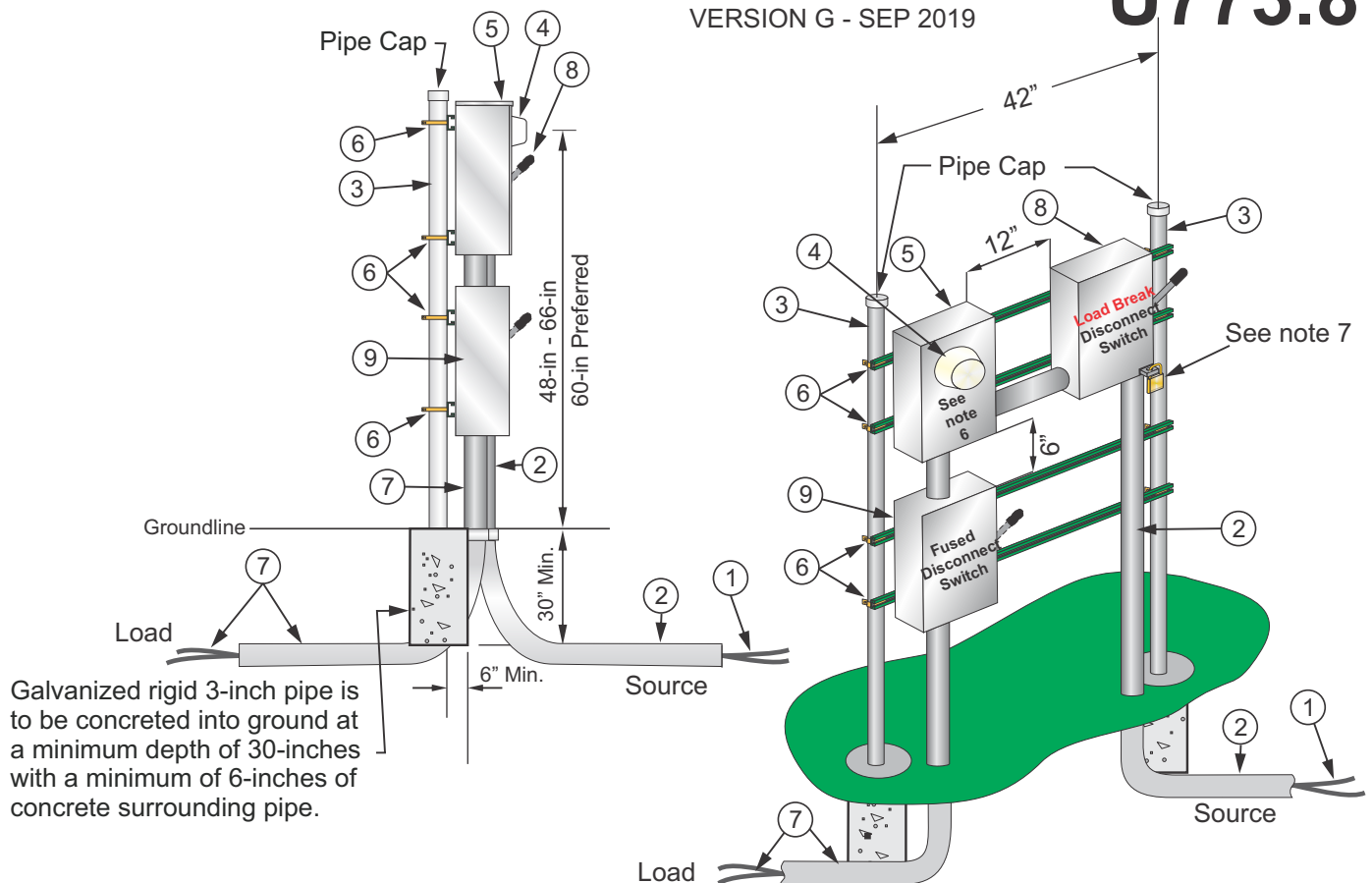
## Notes

1. Place caps on top of pipes to keep moisture from inside of pipe to prevent deterioration.
2. Pipe to be galvanized rigid 3-inch pipe. Pipe to be set at a minimum depth of 30-inches with a minimum of 6-inches of concrete surrounding pipe.
3. When meter cannot be mounted on a building, place two pipes 36-inches apart with 1-5/8-inch Kindorf between pipes to attach equipment.
4. Refer to U16 for proper identification and marking.
5. In order for the meter to be accessible for operation and maintenance, a minimum of 4 feet clearance from all obstructions must be maintained in front of the meter.

## METER INSTALLATION

FOR SELF-CONTAINED SINGLE OR THREE PHASE METER  
240/120, 240Δ/120, OR 208Y/120 VOLTS 400-AMPERES MAXIMUM

SUPERSEDES MAY 2018 ISSUE  
APPROVED



ITEM Number	DESCRIPTION	FURNISHED BY		INSTALLED BY	
		O.G.&E.	CONSUMER	O.G.&E.	CONSUMER
1	Service Lateral	X		X	
‡ 2	Service Lateral Raceway & 90° Bend		X		X
3	3-inch Galvanized Rigid Pipe set in concrete		X		X
4	Meter	X		X	
5	Meter Base, <b>281086</b>	X			X
6	1 5/8-inch Kindorf and Clamps		X		X
7	Conduit and wire		X		X
8	200 Amp Non-Fused Disconnect		X		X
9	200 Amp Fused Disconnect		X		X

‡ Size and number of conduits as specified by OG&E

#### Notes

- When meter cannot be mounted on a building, place two pipes 42-inches apart with 1-5/8-inch Kindorf between pipes to attach equipment.
- Pipe to be galvanized rigid 3-inch pipe. Pipe to be set at a minimum depth of 30-inches with a minimum of 6-inches of concrete surrounding pipe.
- Place caps on top of pipes to keep moisture from inside of pipe to prevent deterioration.
- The use of a disconnect ahead of the meter is required for 480 volt applications.
- Refer to U773.11 for 480 volt two-wire wiring details.
- For all 480V applications install sticker, **302228**, on meter base.
- OG&E to secure load-break disconnect box with series 1 lock (stk#**301236**).
- Refer to U16 for proper identification and marking.
- In order for the meter to be accessible for operation and maintenance, a minimum of 4 feet clearance from all obstructions must be maintained in front of the meter.

## METER INSTALLATION FOR SELF-CONTAINED METERS

**240/480Δ, 480Y/277, 480Δ, OR 480-VOLT TWO-WIRE 200-AMPERES MAXIMUM**