

# TABLE OF CONTENTS

## Overhead Meters

- D726 Consumer Service Pole for Mobile Home Park
- D727 Temporary Service 3-wire Single Phase
- D731.1 Overhead Meter Installation - Single Phase
- D731.2 Connection Diagram - Single Phase
- D731.3 Connection Diagram – Single Phase
- D732 Meter Installation for Self-contained, Poly-phase Meter
- D732.2 Meter Installation for Self-contained, 3-phase Meter
- D732.3 Service Entrance and Outdoor Metering Installation Above 200A
- D732.4 480V Consumer Service Pole
- D733 Consumer Service Pole -200 Ampere Maximum per Meter

## Underground Services

- U701 Underground Service - Recommend Sizes
- U702 Customers Bus Entrance for Transformer vaults
- U704 Underground Service - Preferred Routing and Point of Service

## Underground Meters

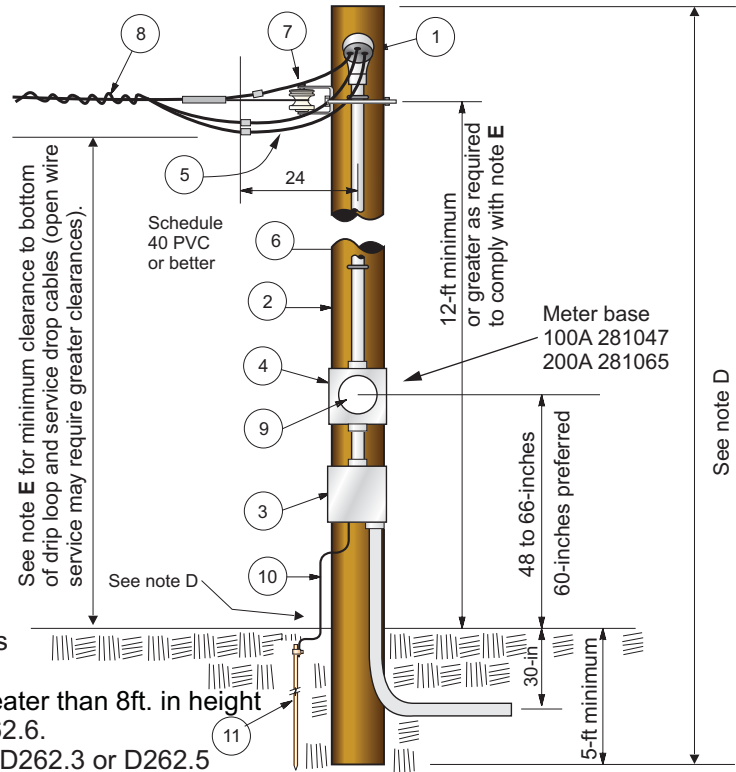
- U762 Multiple Meter Installation - 200 Amperes Per Position -Single Phase, Self-contained
- U762.1 Connection Diagram for Multiple Meter Installation -Single Phase, Self-contained
- U762.3 Connection Diagram -Single Phase - 200 Ampere
- U762.4 Connection Diagram Single Phase - 320 Ampere Maximum
- U762.9 Connection Diagram for Three Phase 320A Maximum
- U765 Meter Installation for Current Transformer Metering Single or Three Phase 1200A Max.
- U765.1 Connection Diagram for Three Phase CT Meter Installation
- U771 Temporary Service – 3 Wire, Single Phase 240/120 Volts
- U772 Meter Installation - Self-contained, 3-phase or Single Phase, 200 Ampere Max.
- U772.2 Connection Diagram - Self-contained 3 Phase 4 wire meter 208Y/120 or 240Delta /120 volt 200-Amp Max
- U773.2 **Meter Installation for self-contained meter 480 or 480Y/277-volts 200-ampere maximum**
- U773.3 Group Meter Installation - Self-contained, 3-phase, 200A per Position, 120/240 or 120/208Y Volts
- U773.4 Group Meter Installation 480Y/200 200amp
- U773.5 CT Metering Components Installation Instruction - more than one customer is served from transformer.
- U773.6 CT Metering Components Installation Instructions One Customer and CT's in Transformer
- U773.7 Meter Installation for Self Contained Single Phase Meter 240/120 Volts 200A Max.
- U773.8 Meter Installation for self-contained meters 240/480Delta, 480Y/277 or 480-volt Two-wire 200-Amp Max.

# Overhead

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. No distinction shall be made between a mobile home that has its wheels removed or one that is still mobile by virtue of being on a wheeled chassis
- B. The service equipment shall be installed adjacent to the mobile home in all cases
- C. Meter pole location to be approved by OGE
- D. Total length of pole is to be a minimum of 20 feet and diameter of pole at ground line is to be a minimum of 7-inches.
- E. 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



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 D		X		X
3	Service equipment		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

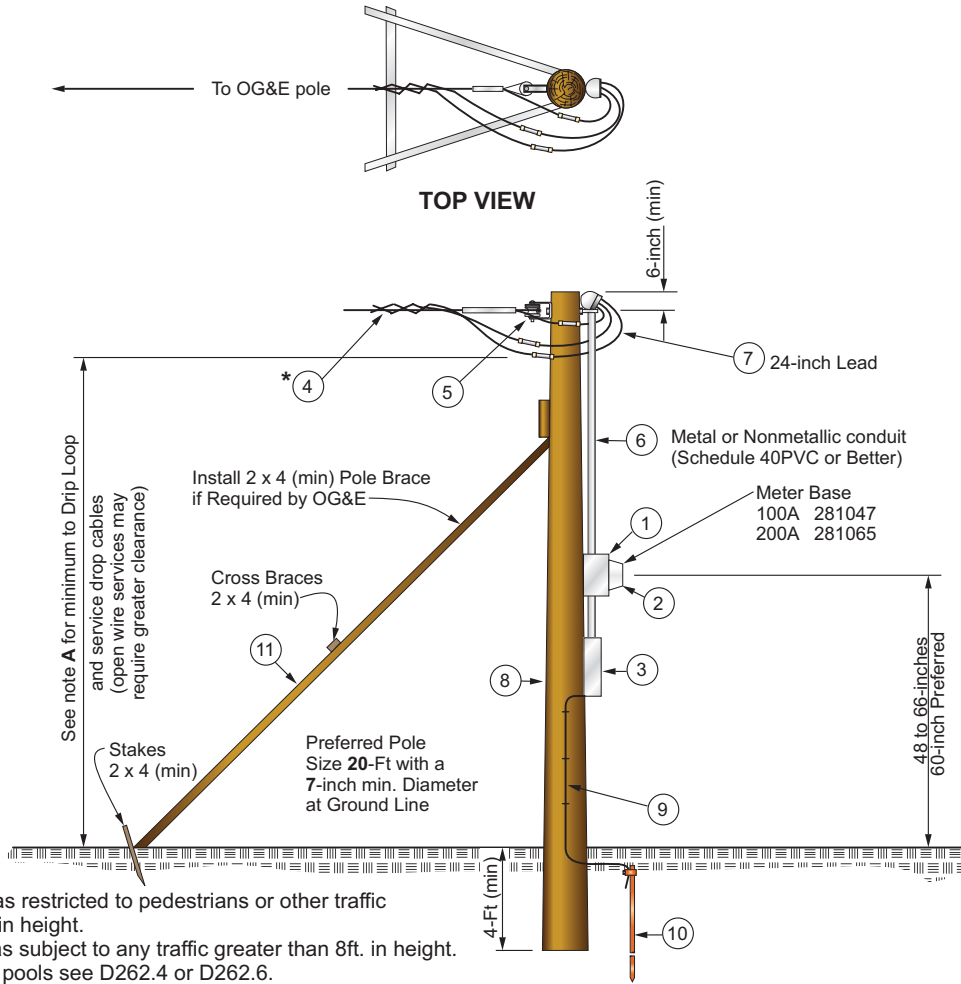
‡ Pressure treated southern yellow pine

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



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.



**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, D262.3 or D262.5.

**\* 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

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**TEMPORARY SERVICE  
3 WIRE SINGLE-PHASE 240/120-VOLTS**





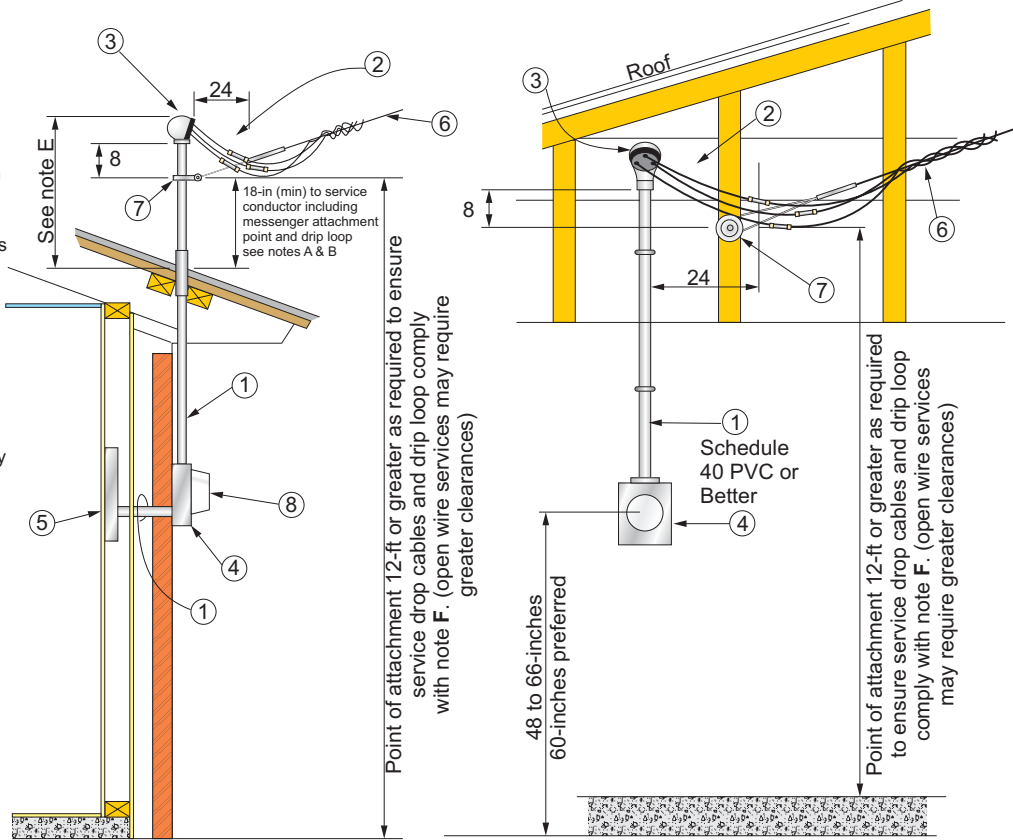
# D731.1

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FEB 2007

OG&E Electric Services<sup>®</sup>

**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	

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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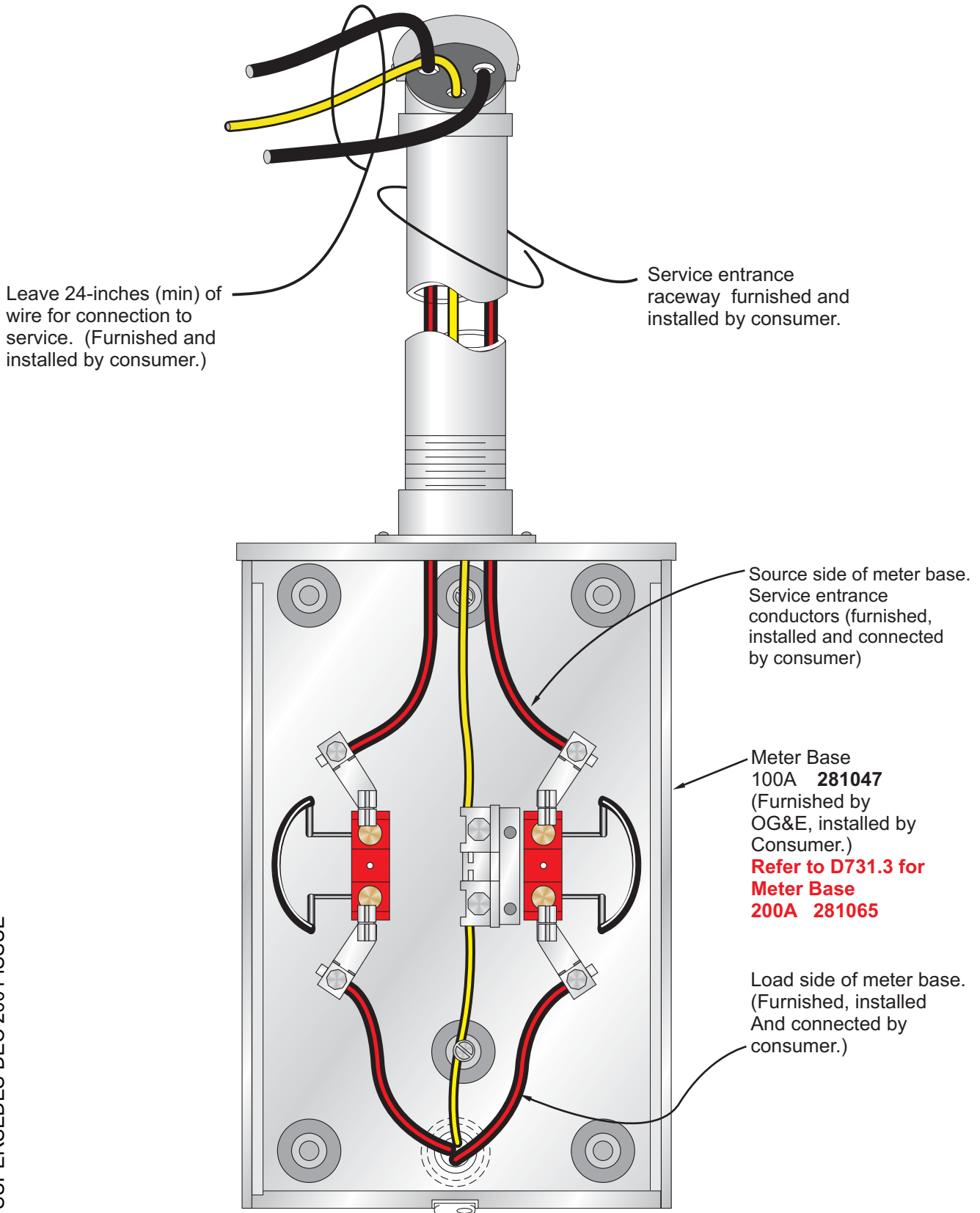


**OVERHEAD METER INSTALLATION**  
SINGLE PHASE 200-AMPERE MAXIMUM

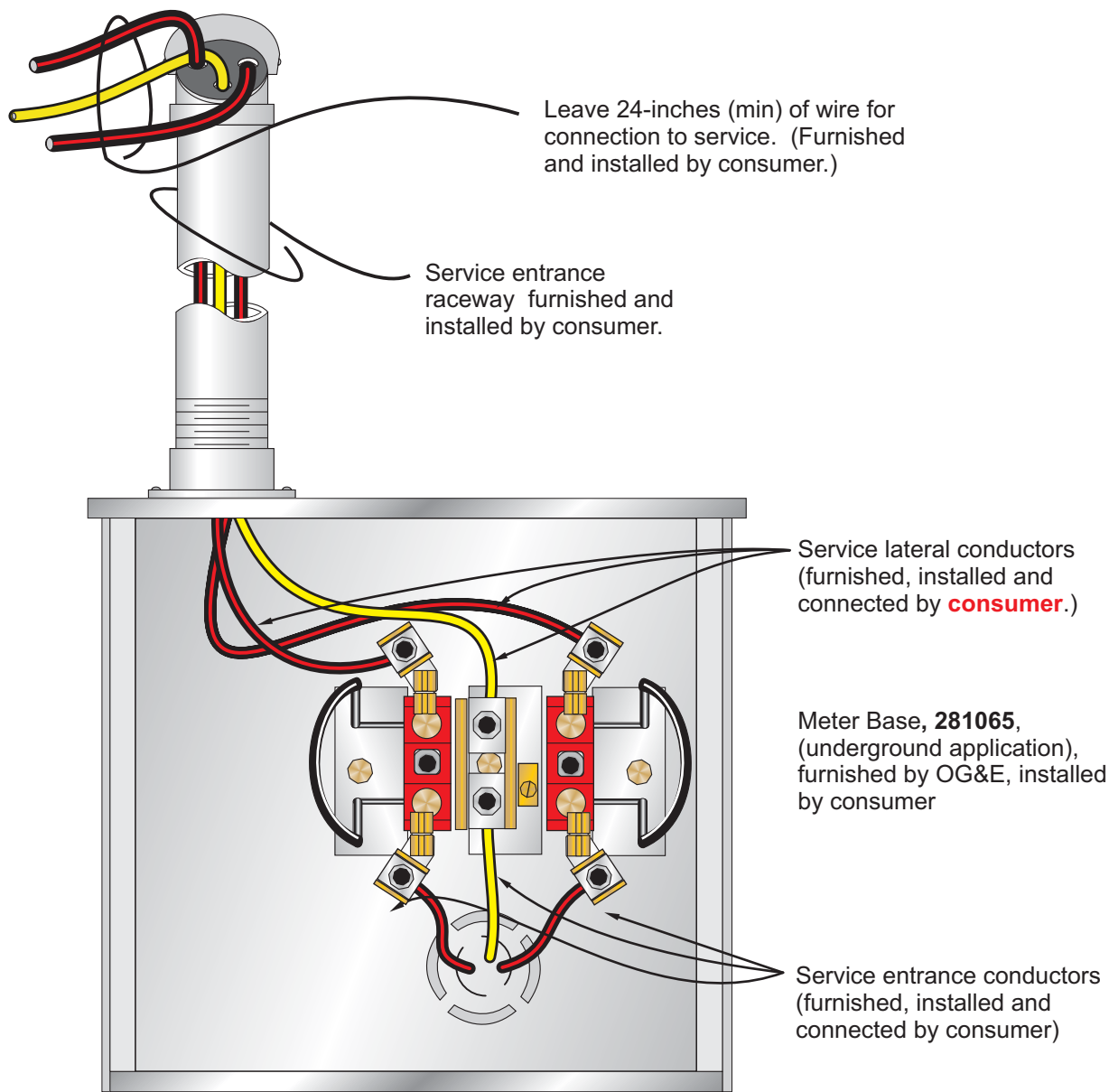
The following is a suggested configuration for meter bases for overhead and underground meters in residential and commercial applications. OG&E Energy Corp., its subsidiaries and affiliates disclaim any liability for the construction or maintenance practices relating to such suggested configuration.

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SUPERSEDES DEC 2001 ISSUE



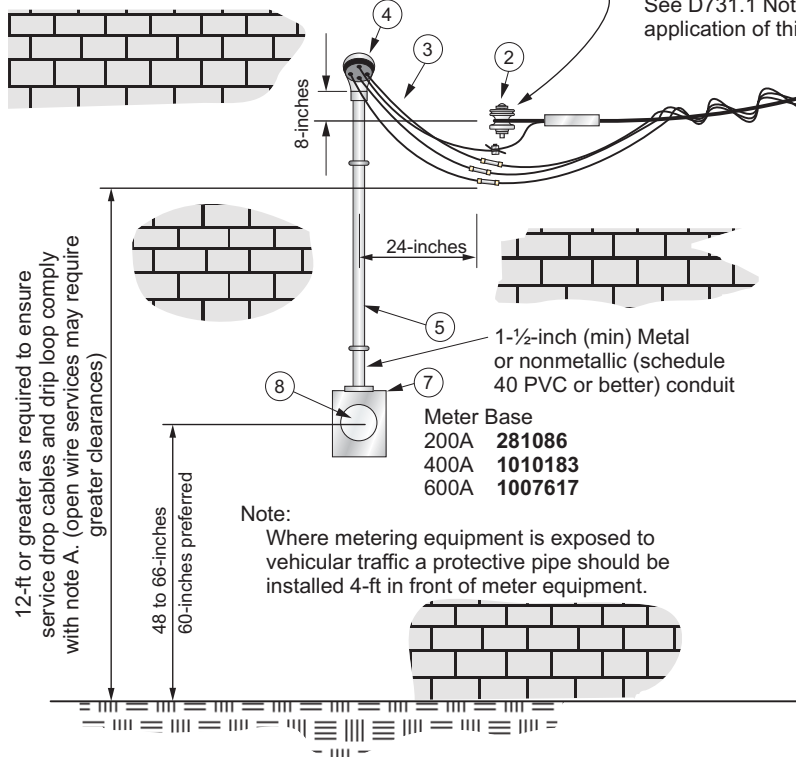
**CONNECTION DIAGRAM**  
SINGLE PHASE      200 AMPERE MAXIMUM



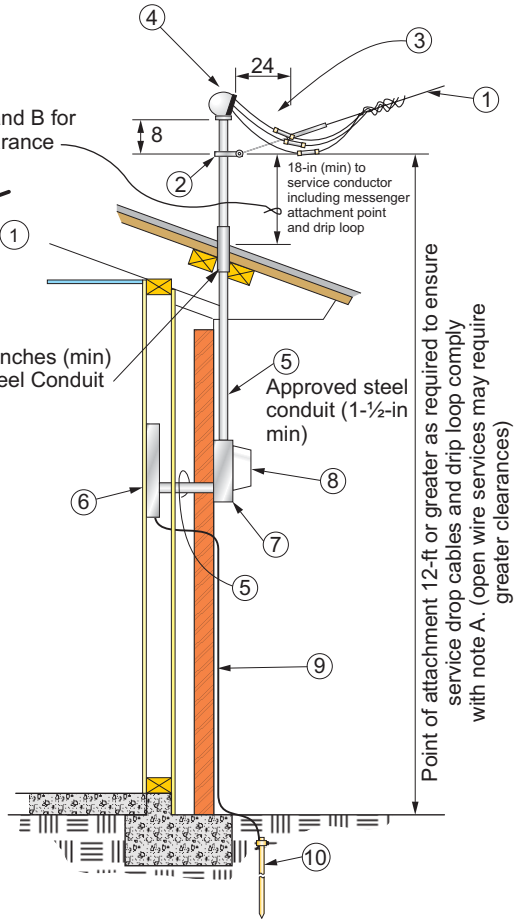
## CONNECTION DIAGRAM SINGLE PHASE 200 AMPERE MINIMUM



Point of Attachment 12-ft or greater above ground or platform as required to ensure service drop cables and drip loop comply with note A. (open wire services may require greater clearances)



See D731.1 Notes A and B for application of this clearance



**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

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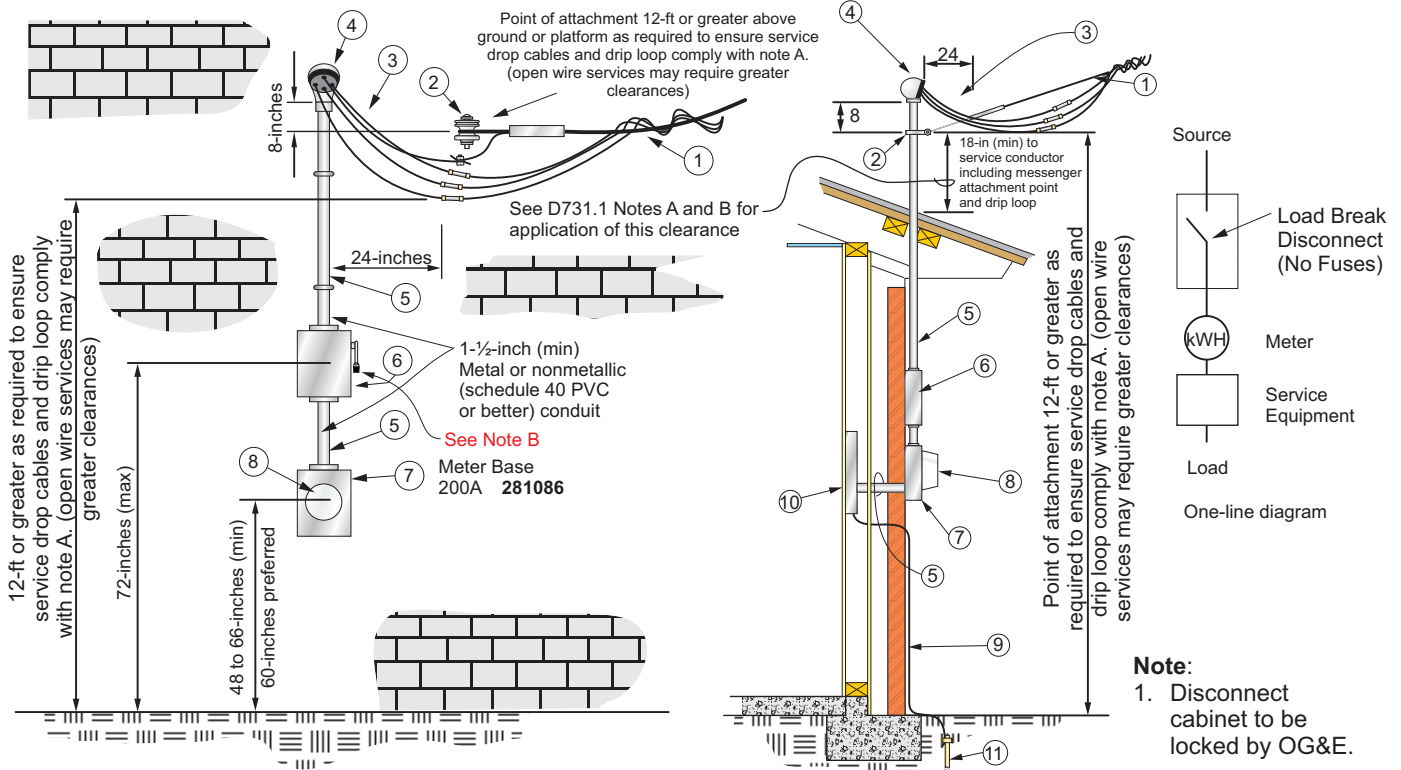
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**METER INSTALLATION**  
FOR SELF-CONTAINED POLY-PHASE METER  
208Y/120 OR 240-delta/120-VOLTS 200,400,600-AMPERE



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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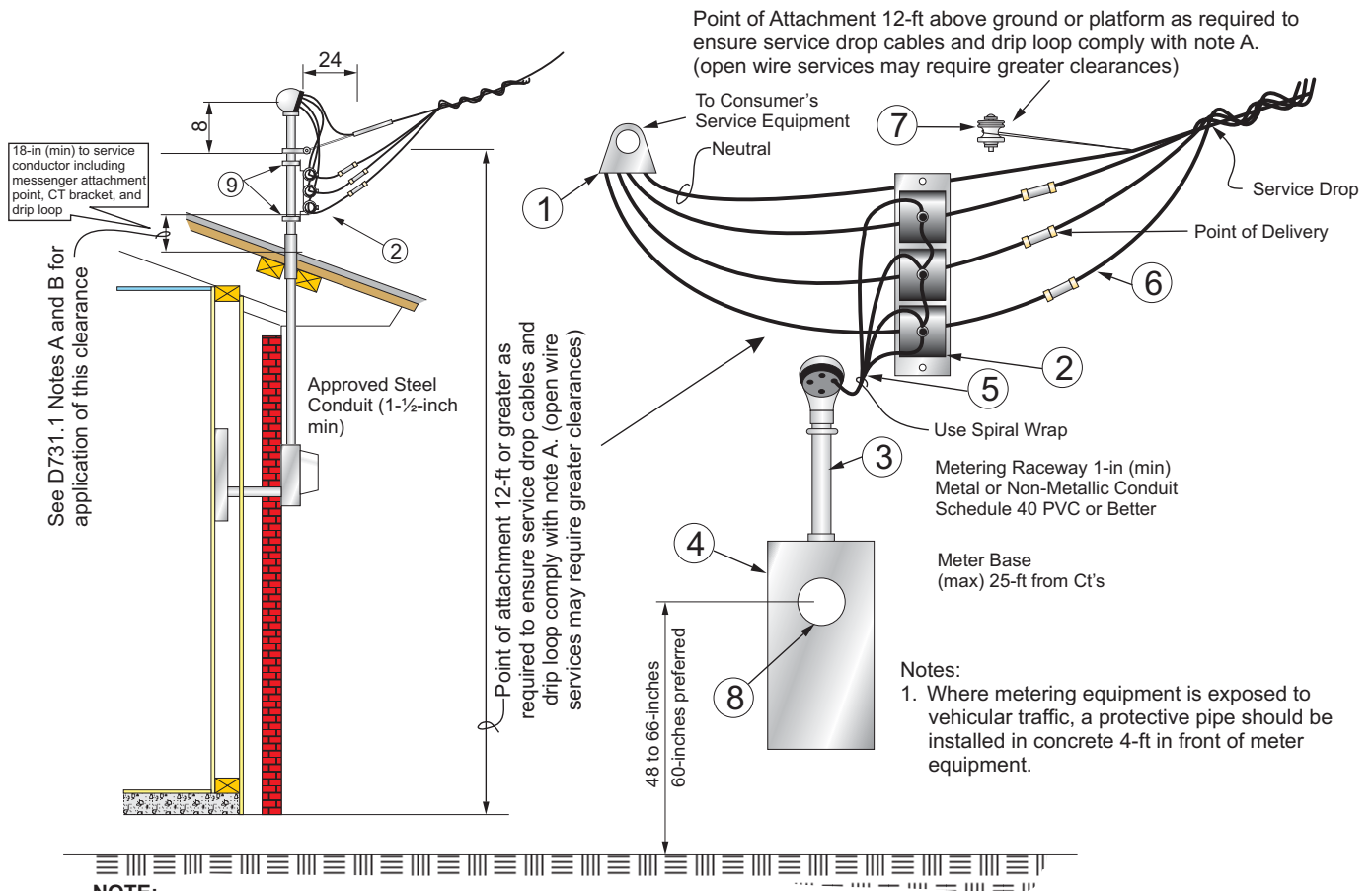
**NOTE:**

- 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).**

**Note:**  
 1. Disconnect cabinet to be locked by OG&E.

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:**

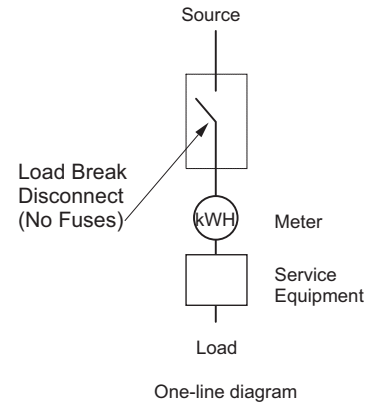
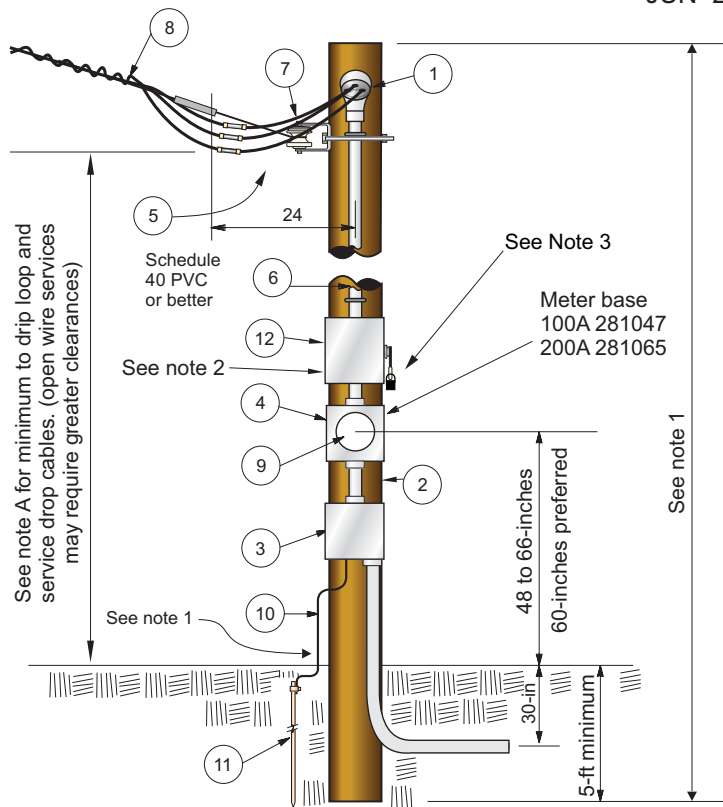
- A. 12-ft over areas restricted to pedestrians or other traffic less than 8-ft in height.  
16-ft **over areas subject to any traffic greater than 8ft. in height.**  
For swimming pools see D262.4 or D262.6.  
For other situations see D262, D262.1, D262.4 or D262.5.

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



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 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).

**NOTE:**

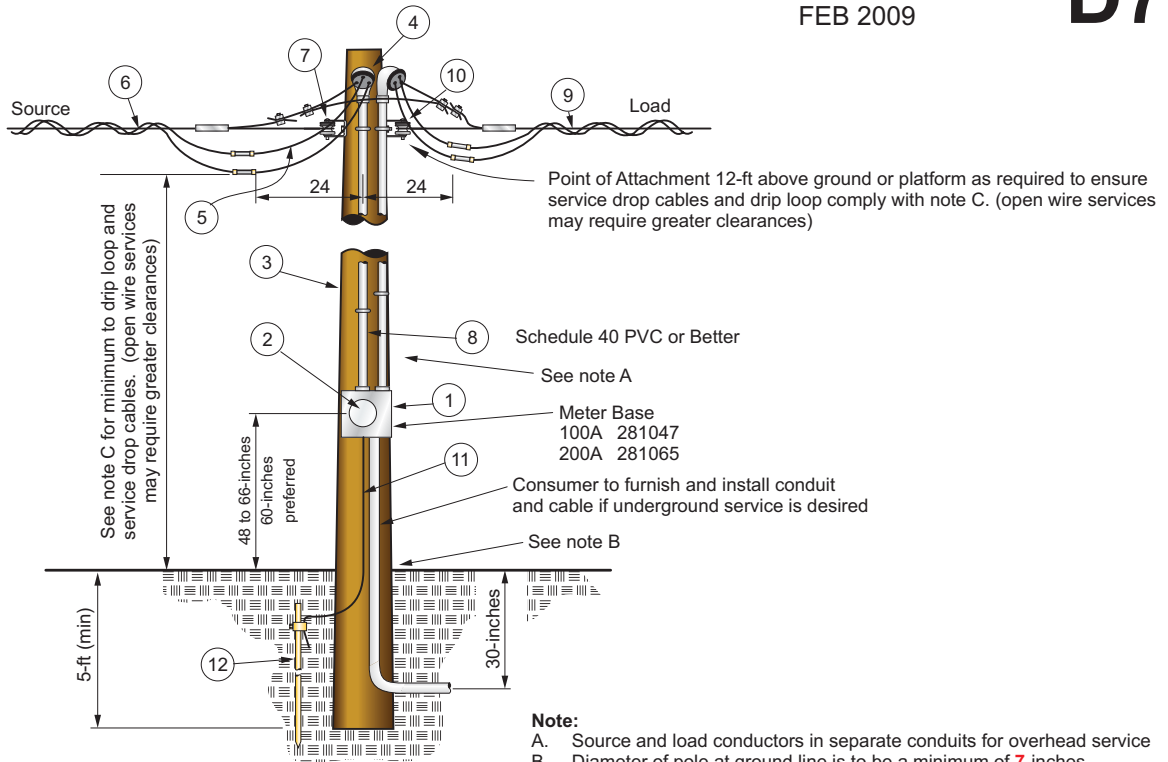
- A. 12-ft over areas restricted to pedestrians or other traffic less than 8-ft in height.  
 16-ft over areas subject to any traffic greater than 8ft. in height.  
 For swimming pools see D262.4 or D262.6.  
 For other situations see D262, D262.1, D262.4 or D262.5.

Item no.	DESCRIPTION	Furnished by		Installed by	
		O.G.E.	Consumer	O.G.E.	Consumer
1	Service head		X		X
‡ 2	Service pole See note A		X		X
3	<b>200 Amp Fused Disconnect</b>		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

‡ Pressure treated southern yellow pine

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



- 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.

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

‡ Pressure treated southern yellow pine

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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**CONSUMER SERVICE POLE  
200-AMPERE MAXIMUM PER METER**





# UG 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**



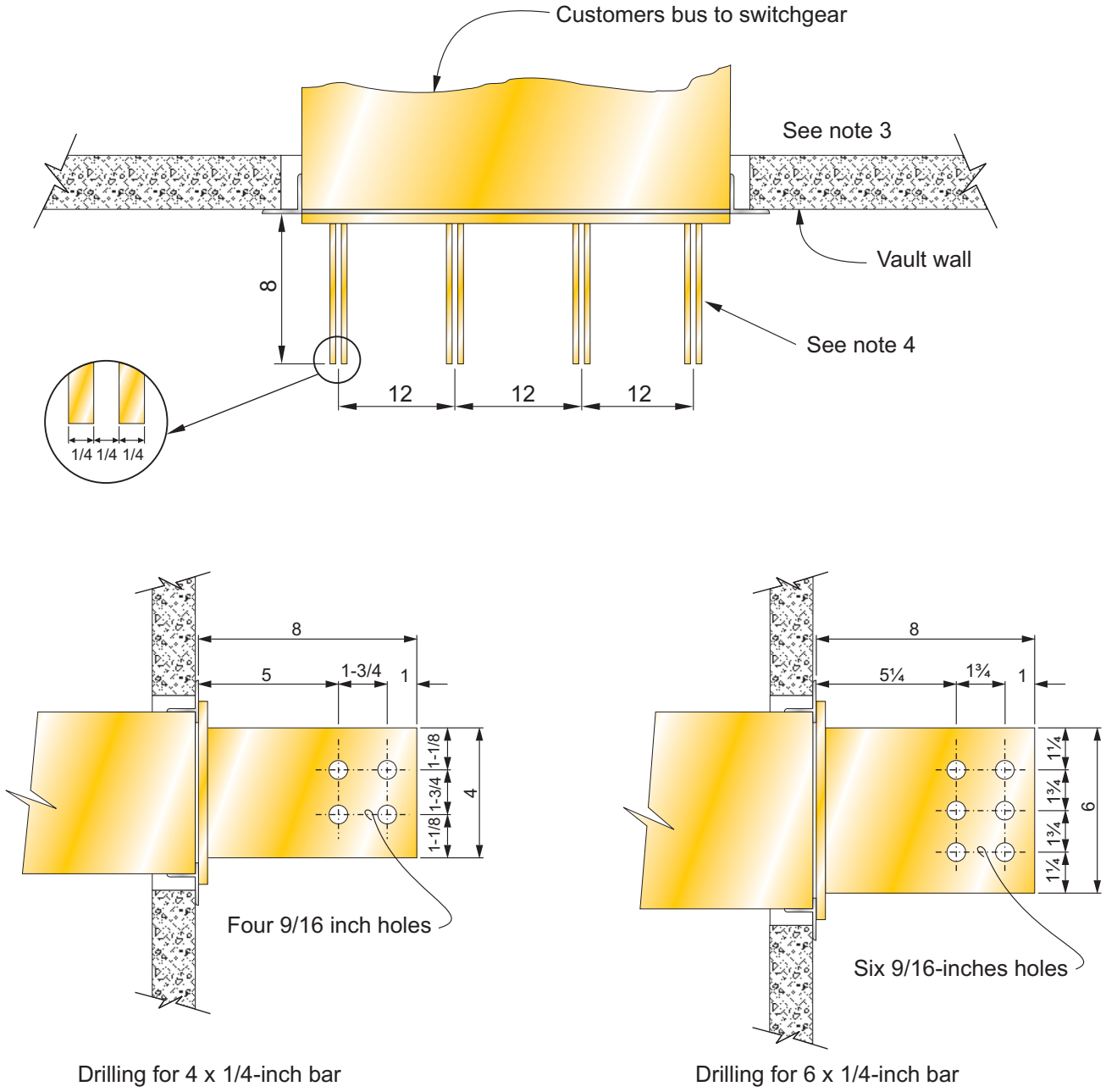
The following is a suggested configuration for meter bases for overhead and underground meters in residential and commercial applications. OG&E Energy Corp., its subsidiaries and affiliates disclaim any liability for the construction or maintenance practices relating to such suggested configuration.

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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.

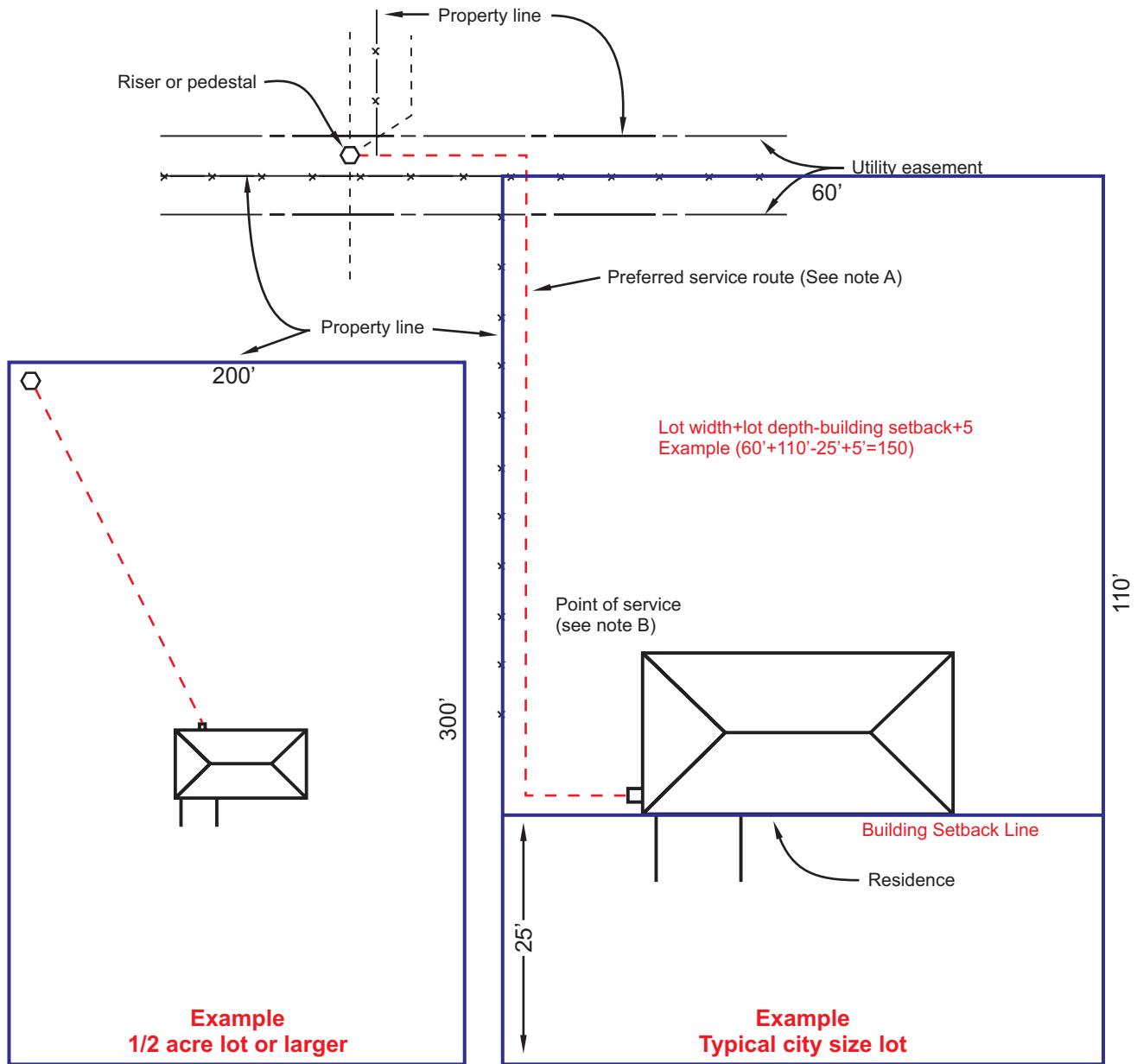
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FIRST ISSUE

**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:

- A. 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.
- B. 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.

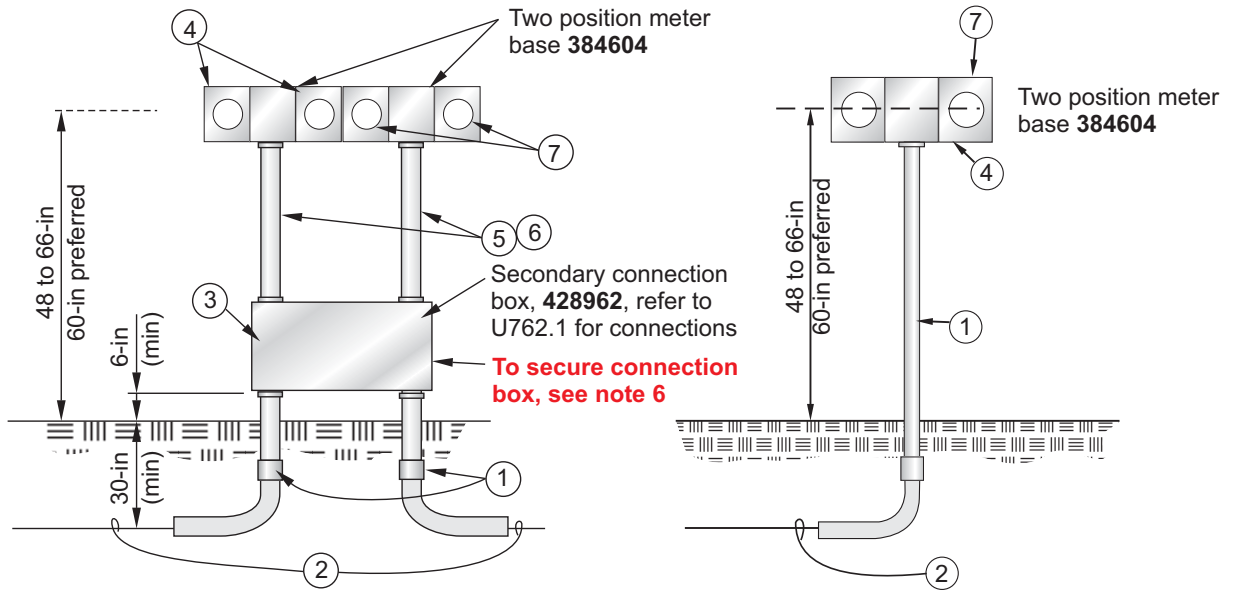
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**UNDERGROUND SERVICES  
PREFERRED ROUTING AND POINT OF SERVICE**



# Underground

The following is a suggested configuration 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 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:

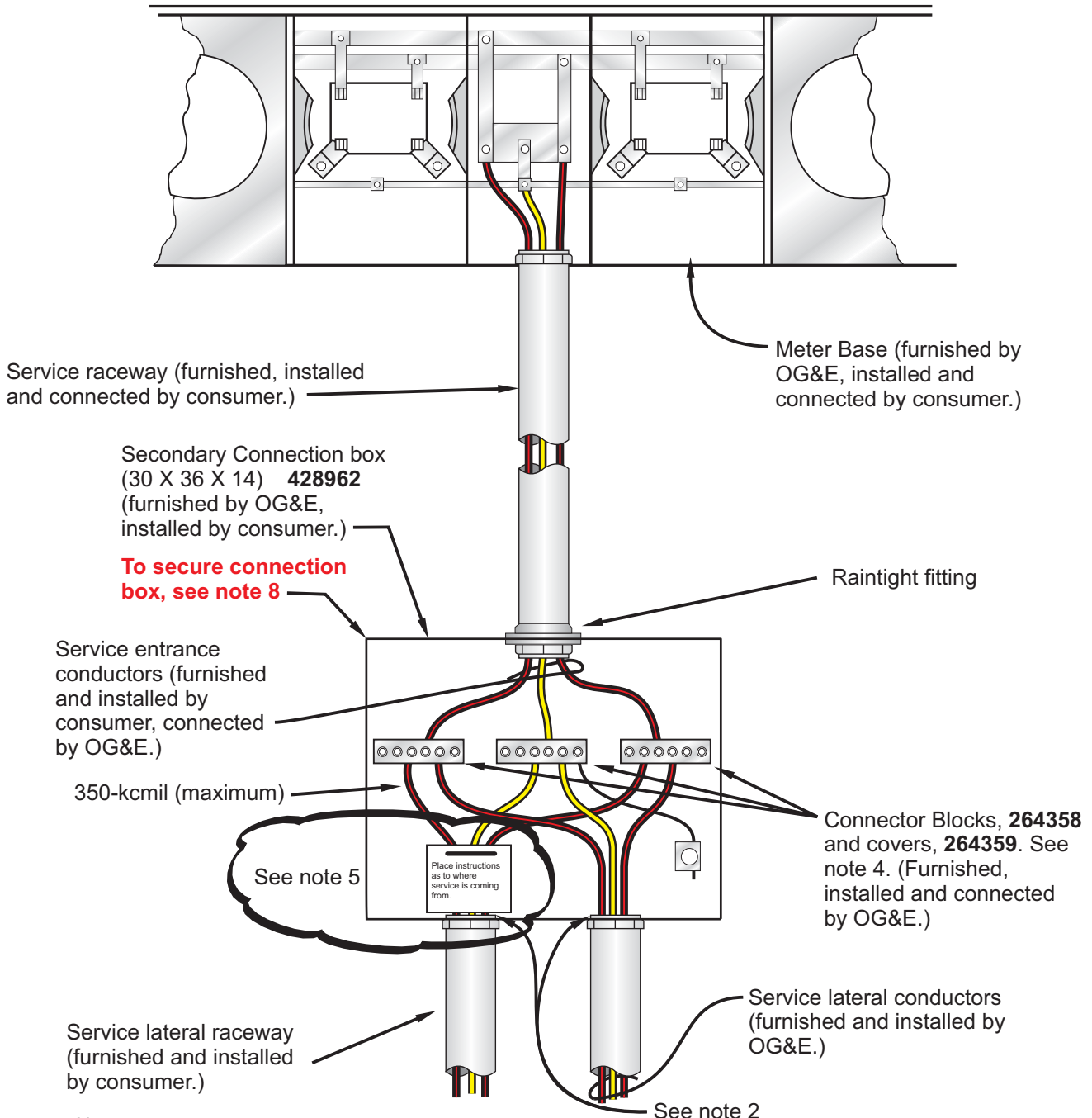
1. Connection box size 30 X 36 X 14.
2. Use Schedule 40 PVC or better.
3. Refer to U16 for proper identification and marking.
4. Connection Box to be bonded to neutral block with #6-AWG copper wire.
5. OG&E equipment is to be installed on outside surface of structure and is not to be recessed.
6. **Secure connection box #428962 with (3) Mac-It head bolts (3/8" x 1") #301404 upon energizing.**

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**MULTIPLE METER INSTALLATION**  
**200 - AMPERE PER POSITION**  
**SINGLE PHASE      SELF CONTAINED**





Notes:

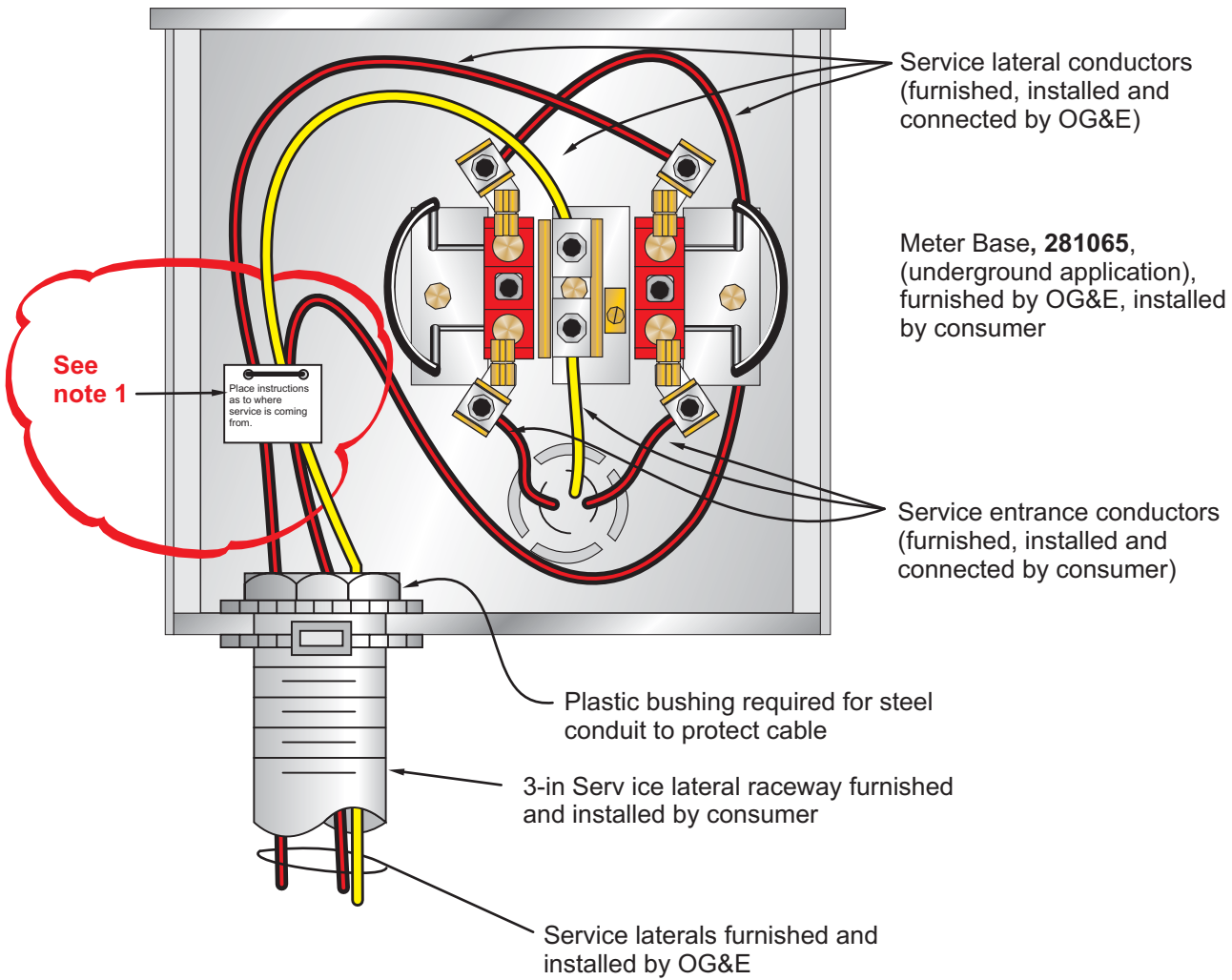
1. Consumer to install service entrance conductors and make connections at meter enclosure.
2. Plastic bushing required for steel conduit to protect cable.
3. Connection box and blocks to be furnished by OG&E.
4. Connection Box to be bonded to neutral block with #6-AWG copper wire.
5. Place identifying 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**

# U762.3

UNDERGROUND STANDARD  
MAR 2006

OG&E Electric Services<sup>®</sup>



**Notes:**

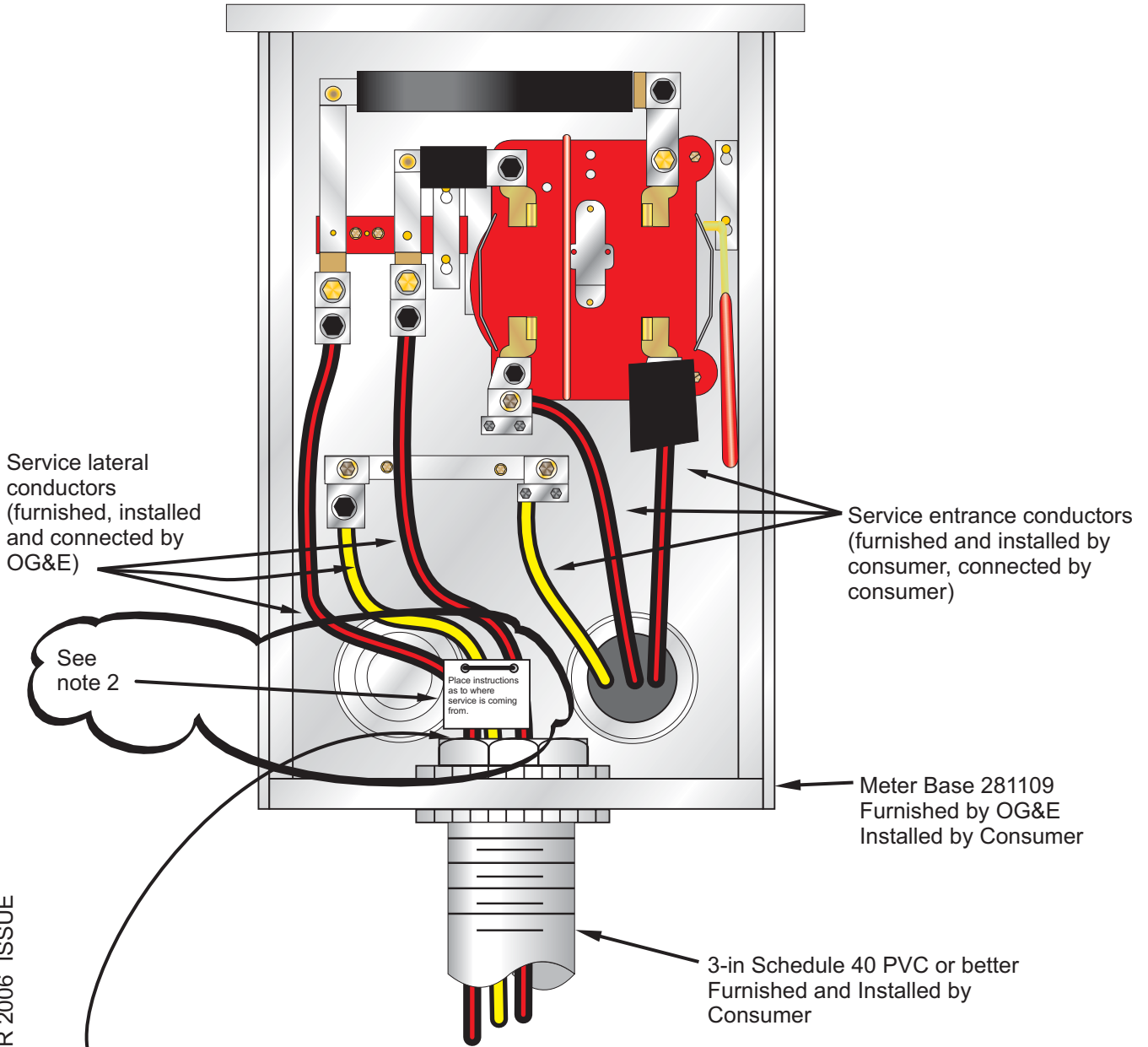
1. Place identifying tag on service conductors with information relating to where service is coming from (pedestal, transformer, pipe or no pipe under driveway.) Refer to U16.

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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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.



See note 2

Place instructions as to where service is coming from.

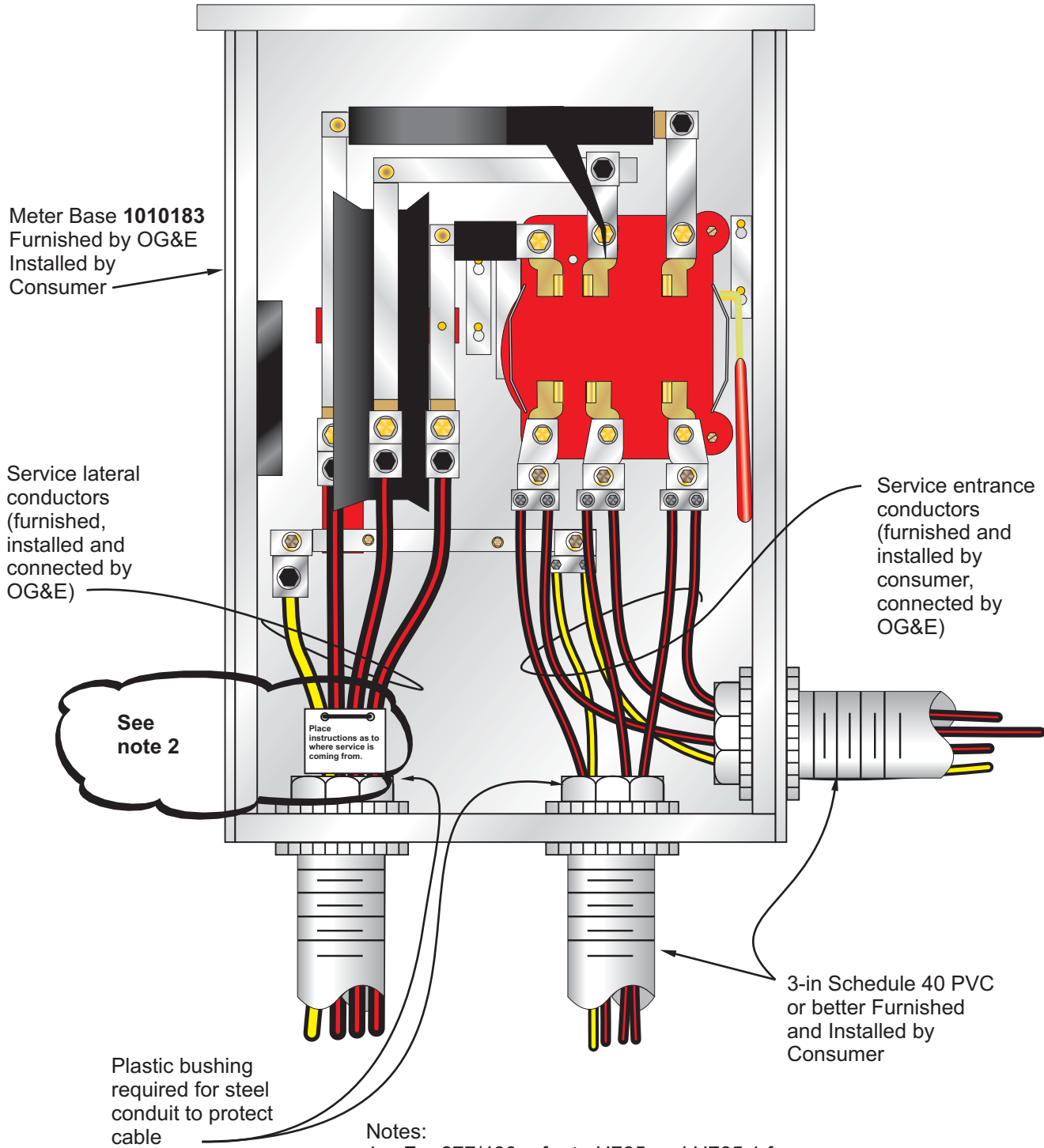
**Notes:**

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 320-AMPERES MAXIMUM**



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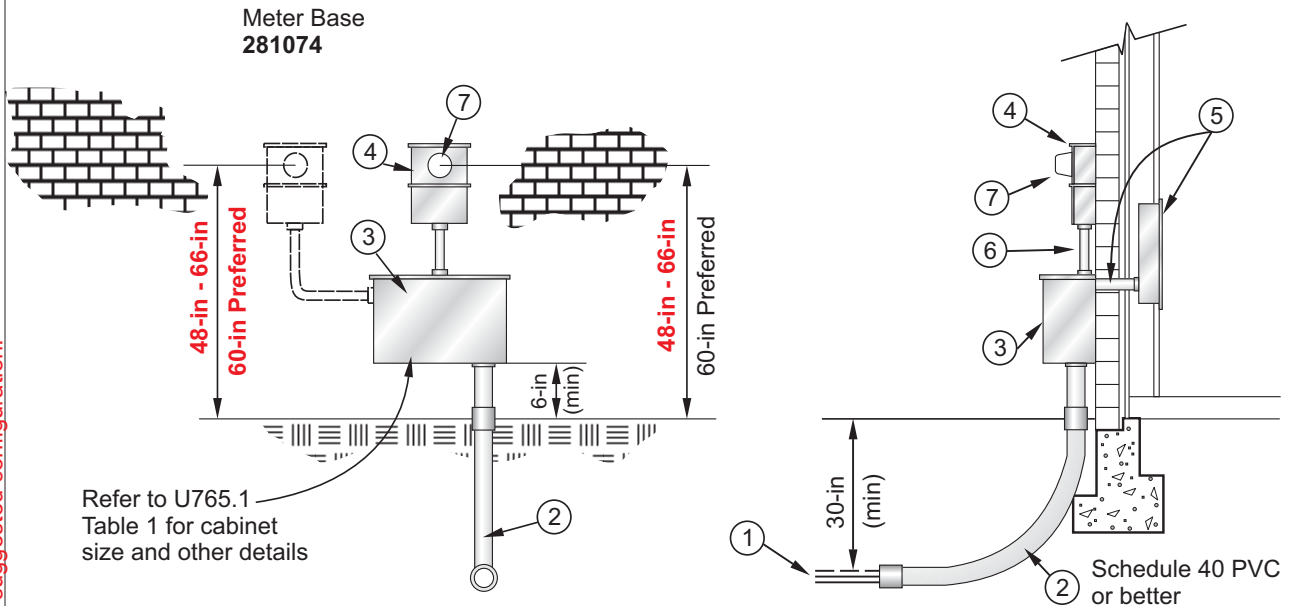
Notes:

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 reconstruction or maintenance practices relating to such suggested configuration.

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.

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**METER INSTALLATION  
FOR CURRENT TRANSFORMER METERING  
SINGLE OR THREE PHASE 1200-AMPERES MAXIMUM**

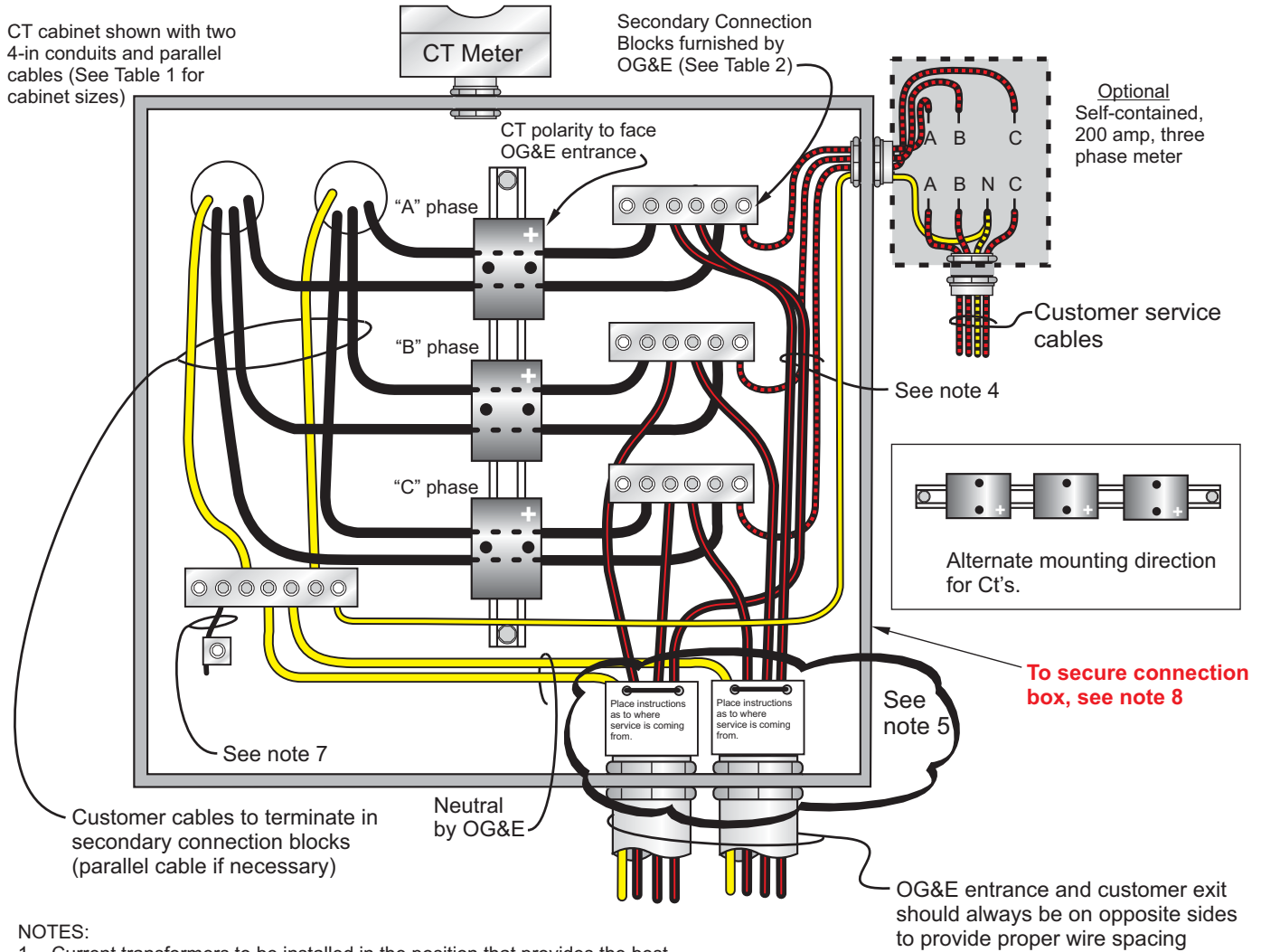


# U765.1

UNDERGROUND STANDARD  
JUL 2016

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CT cabinet shown with two 4-in conduits and parallel cables (See Table 1 for cabinet sizes)



**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. Secure connection box #1009107 with series #1 padlock #301326 upon energizing.**

**TABLE 1**

STOCK ACCOUNT	CABINET DIMENSIONS
428962	30 x 36 x 14
‡ 1009107	42 x 48 x 14

‡ Stock Account **1009107** is for 1200 amp applications **ONLY!**

**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

**CONNECTION DIAGRAM  
THREE PHASE CT METER INSTALLATION  
WITH OPTIONAL SELF-CONTAINED METER**



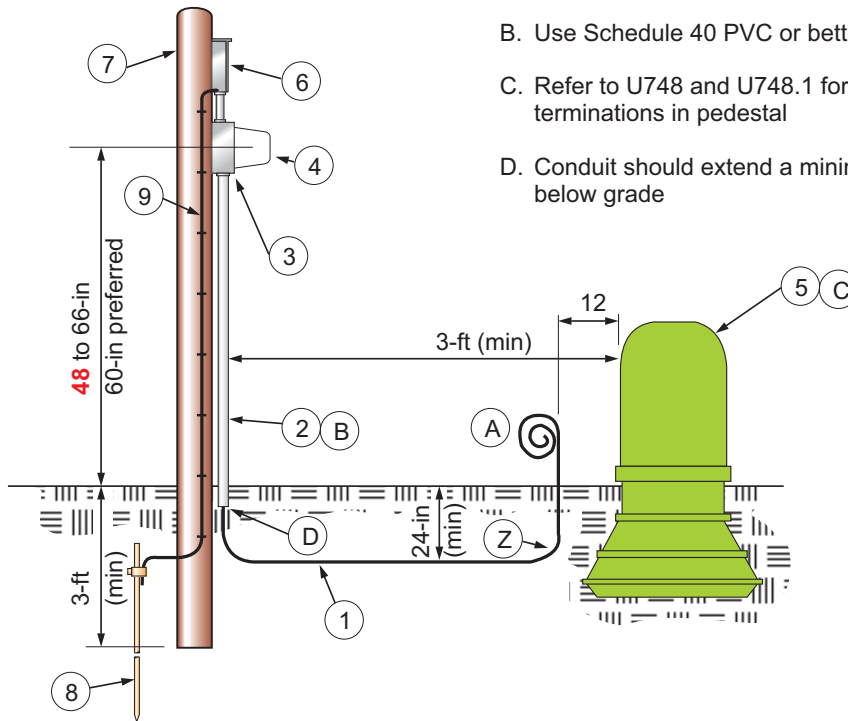
The following is a suggested configuration for meter bases for overhead and underground meters in residential and commercial applications. OG&E Energy Corp., its subsidiaries and affiliates disclaim any liability for the construction or maintenance practices relating to such suggested configuration.

SUPERSEDES FEB 2013 ISSUE  
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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

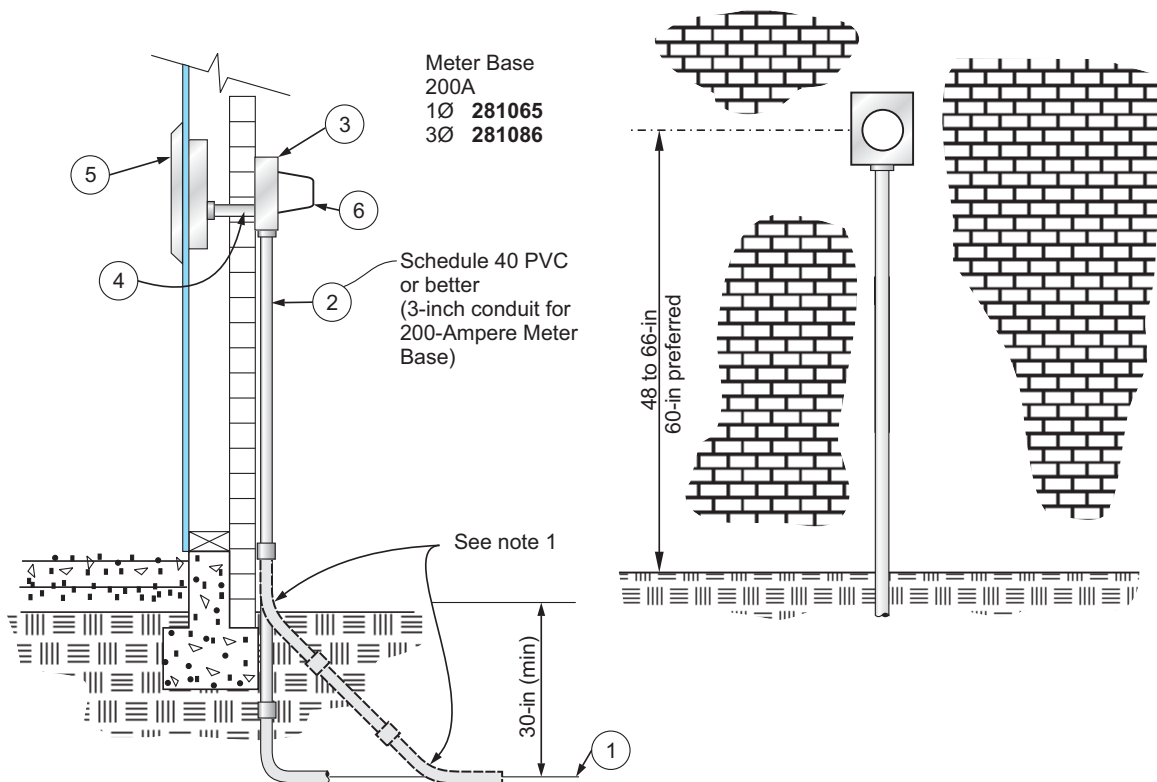
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SUPERSEDES AUG 1998 ISSUE

**TEMPORARY SERVICE**  
**3-WIRE, SINGLE-PHASE 240/120-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	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.**

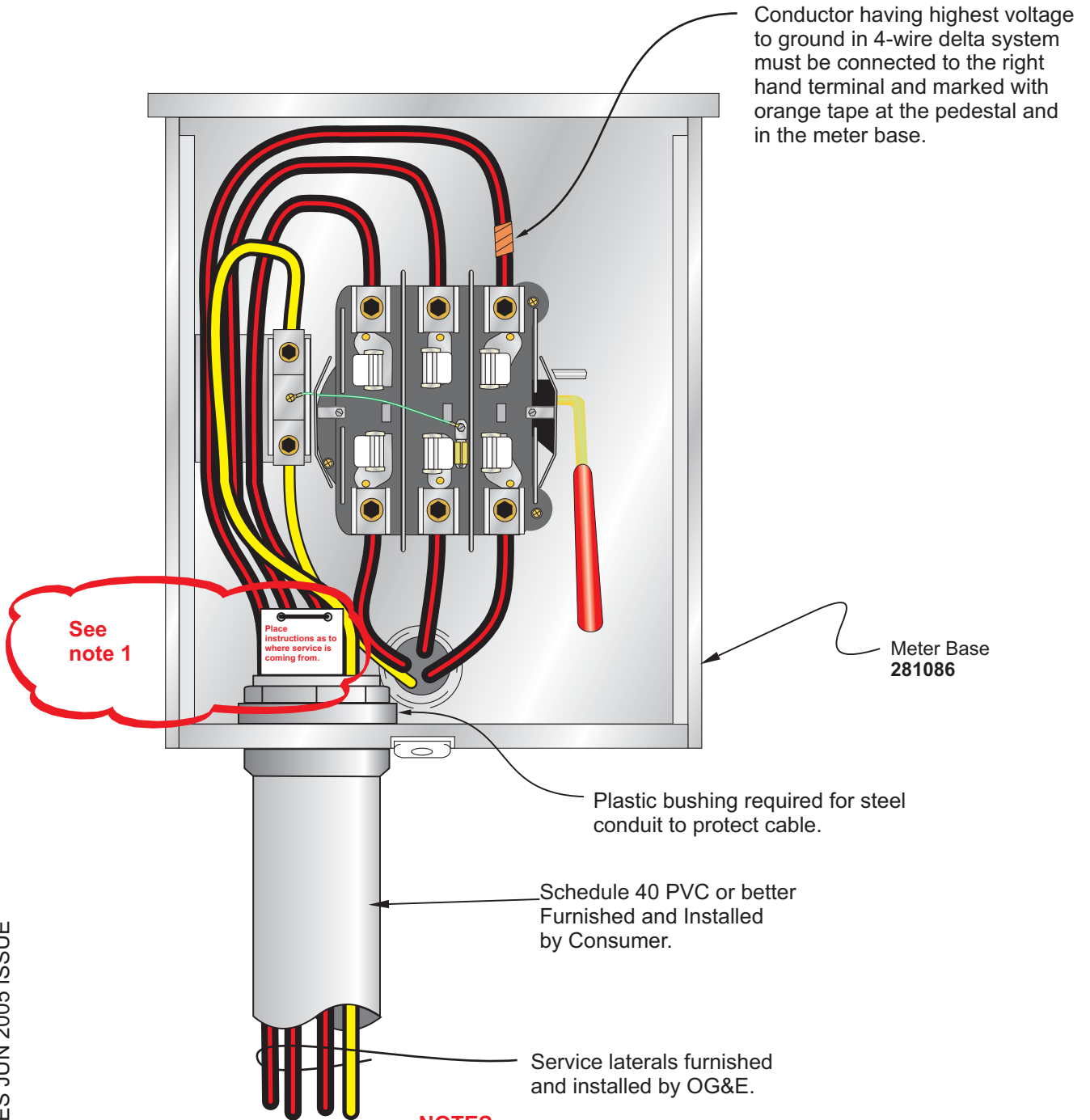
**METER INSTALLATION  
FOR SELF-CONTAINED SINGLE PHASE OR THREE PHASE METER  
208Y/120 OR 240Δ /120 OR 240/120 VOLTS  
200-AMPERES MAXIMUM**



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SUPERSEDES MAR 2014 ISSUE



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.

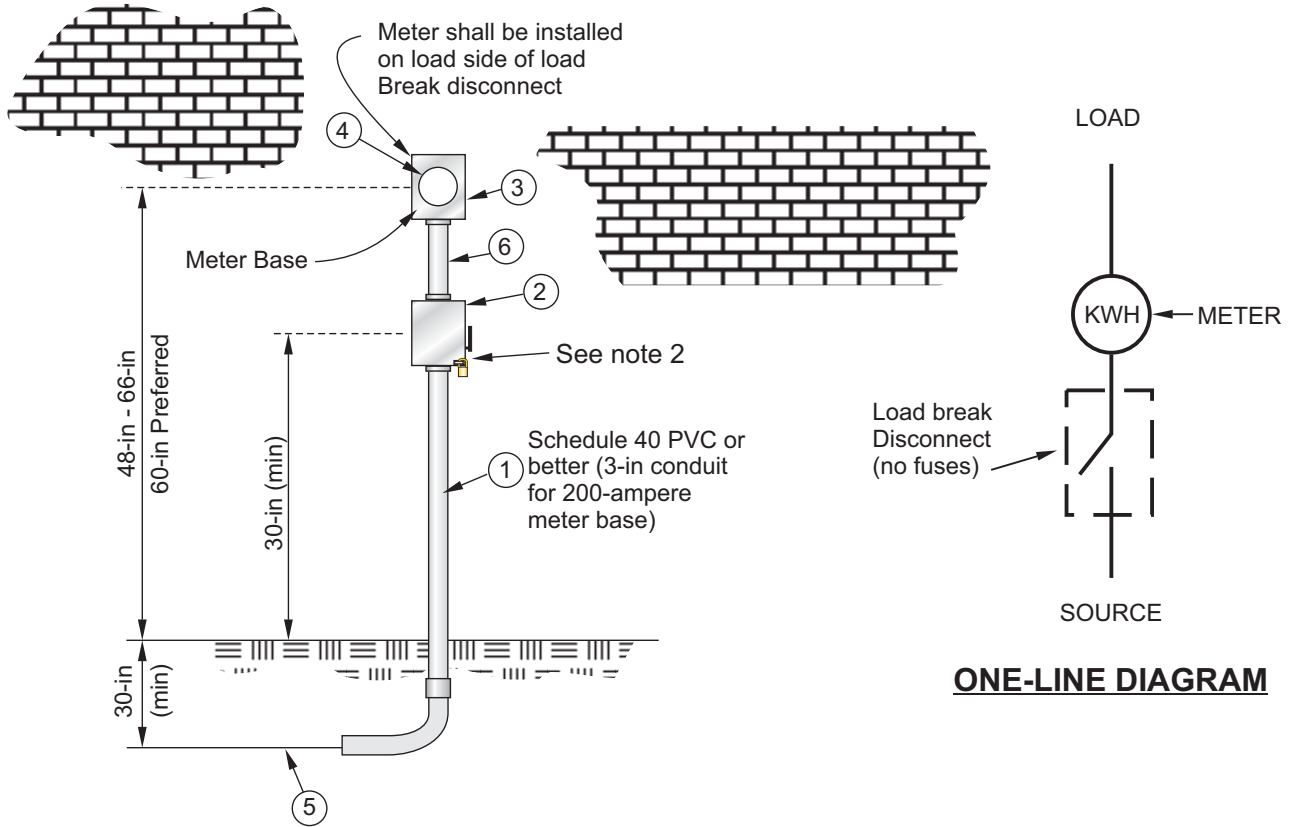


- NOTES:**
1. Place identifying tag on service conductors with information relating to where service is coming from (pedestal, transformer, pipe or no pipe under driveway.) Refer to U16

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

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SUPERSEDES JUN 2005 ISSUE

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.



**ONE-LINE DIAGRAM**

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#301326).
- 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 METER**

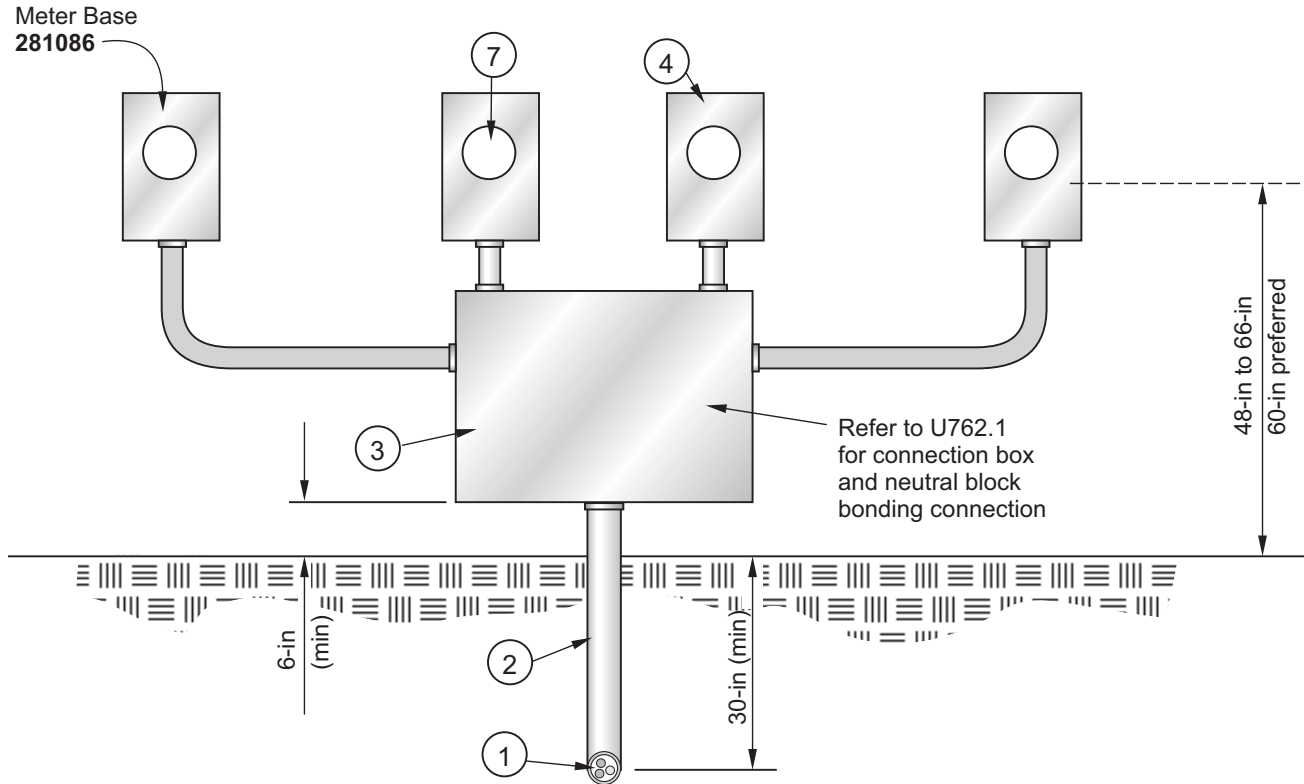
**480 OR 480Y/277-VOLTS 200-AMPERES MAXIMUM**



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SUPERSEDES FEB 2015 ISSUE





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

‡ 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

**OG&E<sup>®</sup>** 120/240Δ-120/208Y SELF CONTAINED-THREE PHASE

SUPERSEDES FEB 2013 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.

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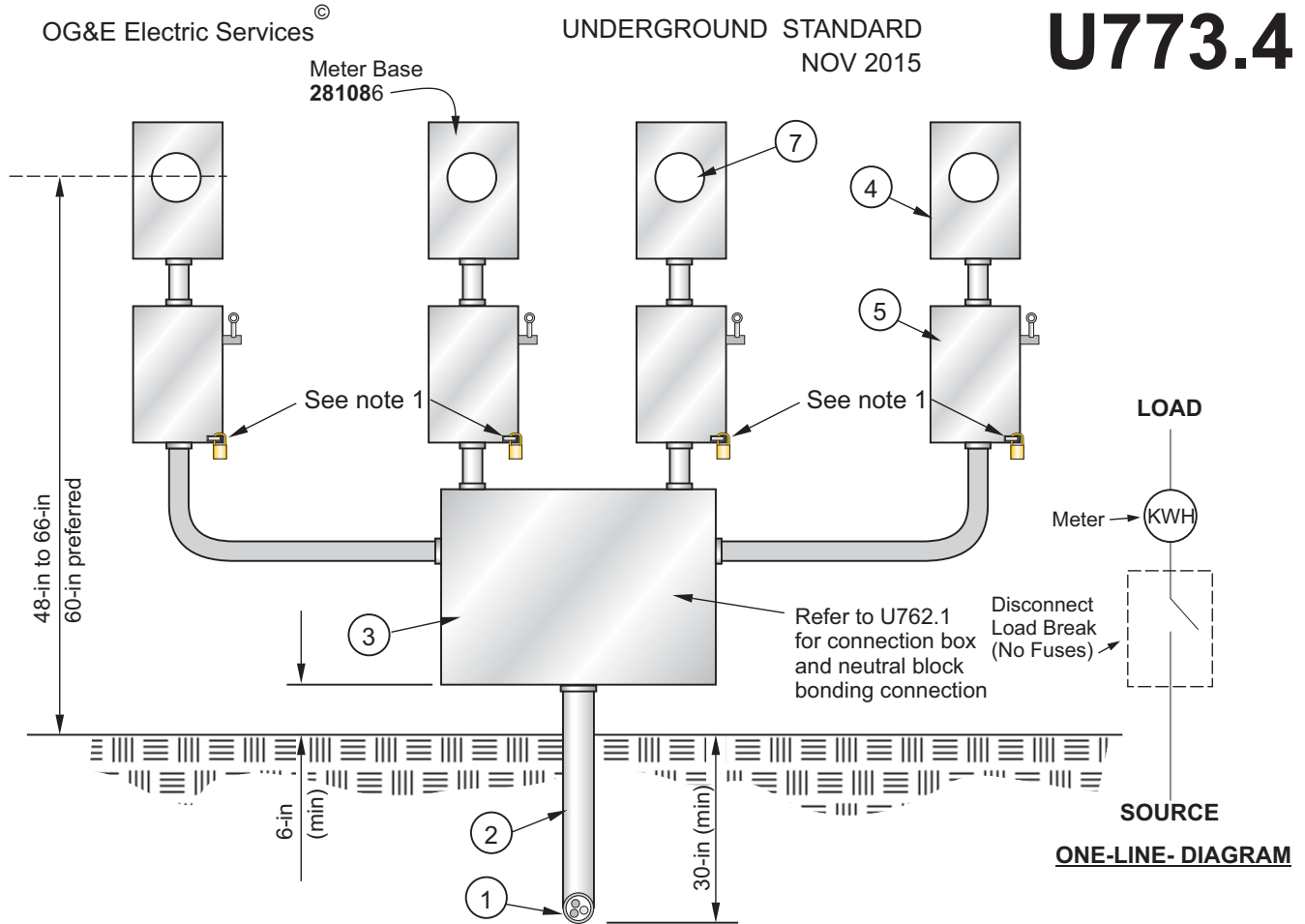
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SUPERSEDES AUG 2014 ISSUE

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NOV 2015

# U773.4



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#301326).
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.

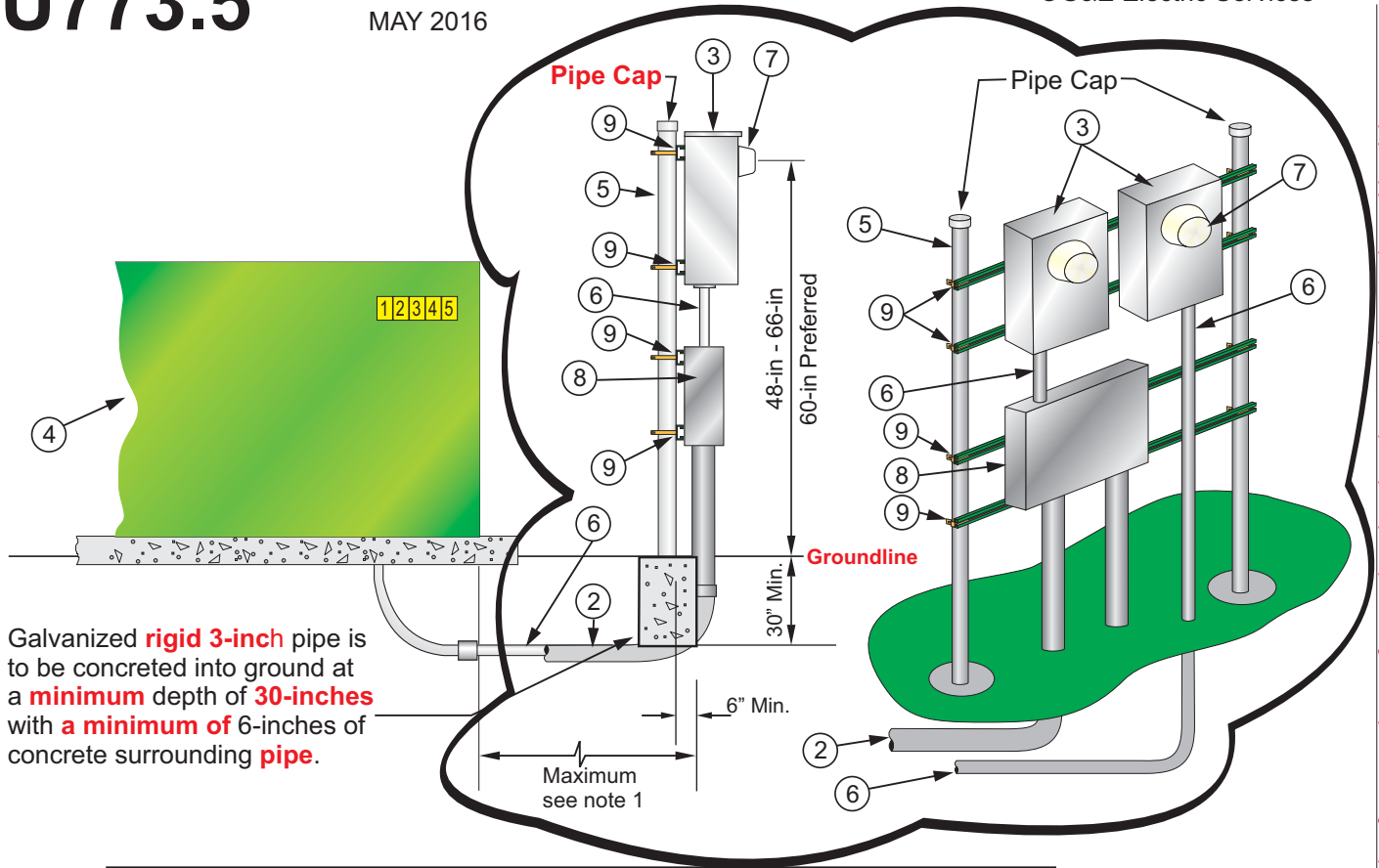
## GROUP METER INSTALLATION 200-AMPERE PER POSITION

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

# U773.5

UNDERGROUND STANDARD  
MAY 2016

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		X		X
3	CT Meter Base	X			X
4	Transformer	X		X	
5	3-inch Galvanized <b>Rigid</b> 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 <b>and Clamps</b>		X		X

‡ Size and number of conduits as specified by OG&E  
\* Secondary Connection Box shall be bonded to neutral block

Notes

1. Wiring from CTs to meter is 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.**

## OG&E<sup>®</sup> CT METERING COMPONENTS INSTALLATION INSTRUCTIONS WHEN MORE THAN ONE CUSTOMER IS SERVED FROM TRANSFORMER

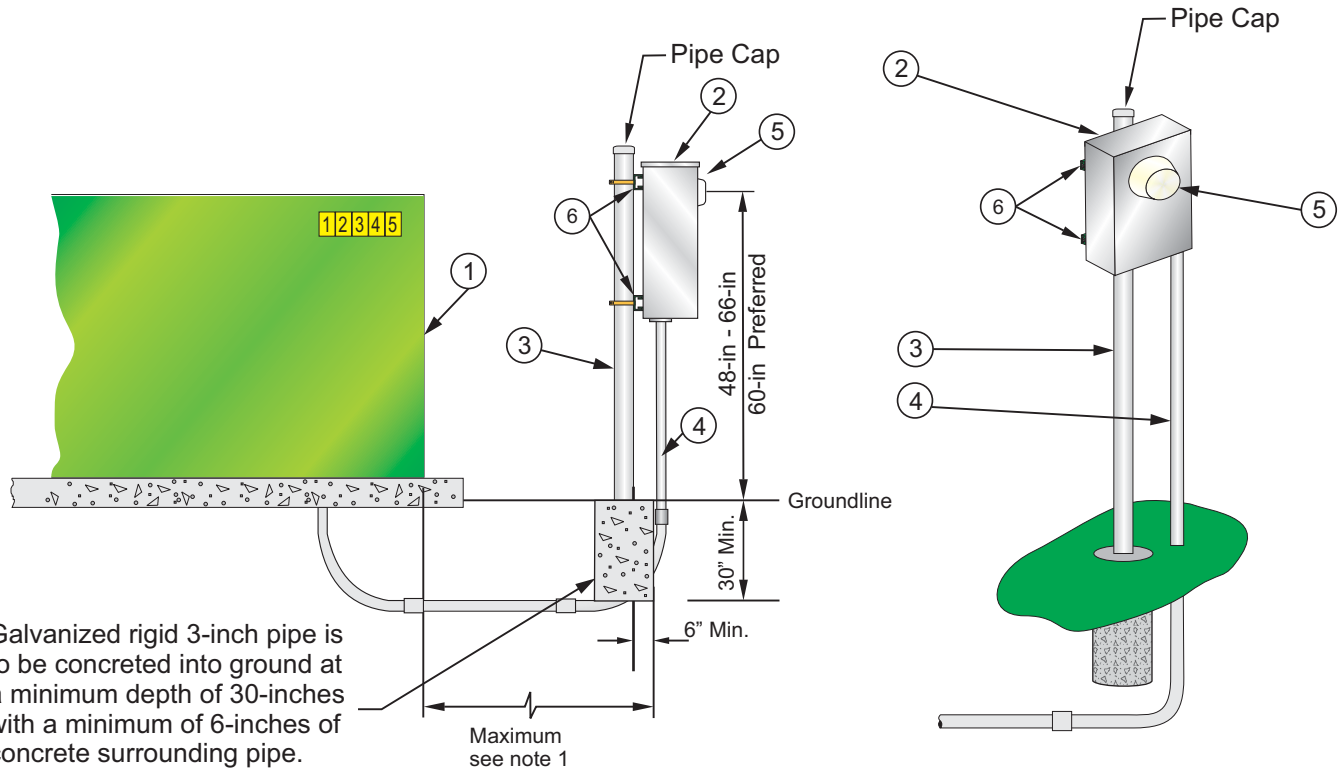
The following is a suggested configuration for meter bases for overhead and underground meters in residential and commercial applications. OG&E Energy Corp., its subsidiaries and affiliates disclaim any liability for the construction or maintenance practices relating to such suggested configuration.

SUPERSEDES FEB 2015 ISSUE  
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ITEM Number	DESCRIPTION	FURNISHED BY		INSTALLED BY	
		O.G.&E.	CONSUMER	O.G.&E.	CONSUMER
1	Transformer	X		X	
2	CT Meter Base	X			X
3	3-inch Galvanized Rigid pipe set in concrete		X		X
4	Metering Conduit 1-inch sch 40 or rigid		X		X
5	Meter	X		X	
6	1 5/8-inch Kindorf and Clamps		X		X

**Notes**

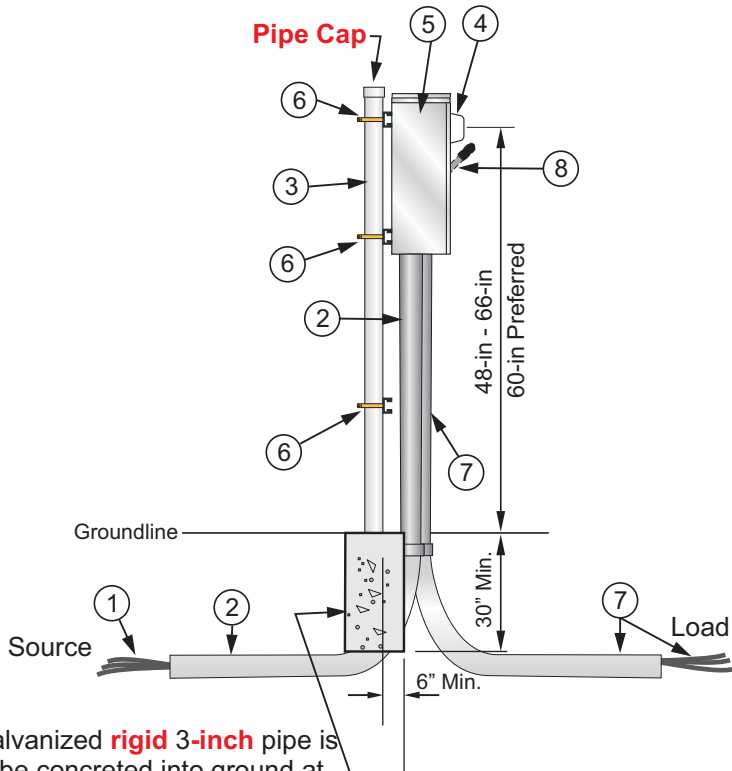
1. Wiring from CTs to meter is not to exceed 20 feet in total length.
2. Place cap on top of pipe to keep moisture from inside of pipe to prevent deterioration.
3. Pipe to be galvanized rigid 3-inch pipe. Pipe to be set at a minimum depth of 30-inches with a minimum of 6-inches of concrete surrounding 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**

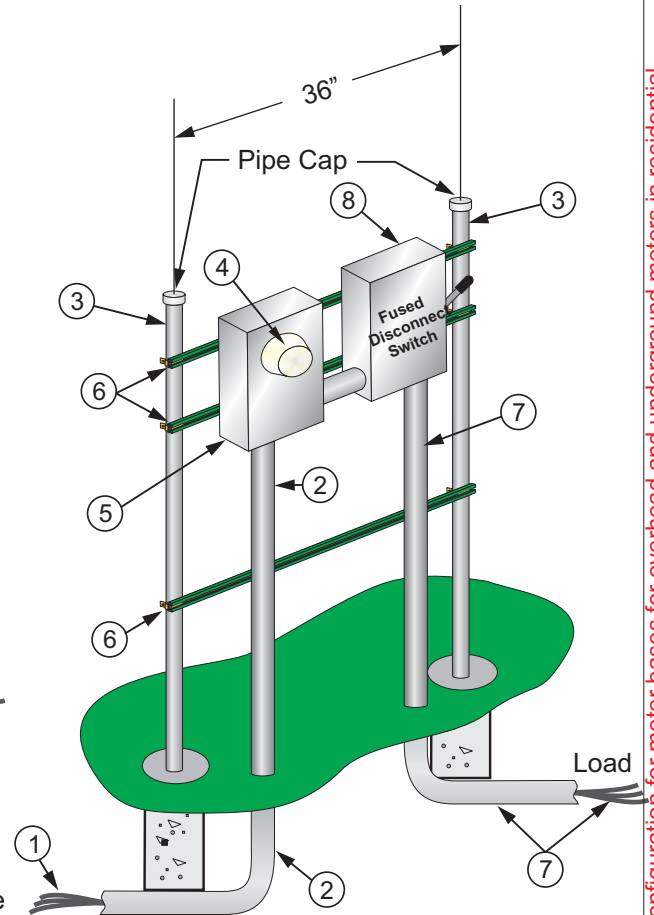
# U773.7

UNDERGROUND STANDARD  
MAY 2016

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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 <b>Rigid</b> Pipe set in concrete		X		X
4	Meter	X		X	
5	Meter Base	X			X
6	1 5/8-inch Kindorf <b>and Clamps</b>		X		X
7	Conduit and wire		X		X
8	Fused Disconnect Switch		X		X
*9	Grounding Electrode & Grounding Electrode Conductor		X		X

‡ Size and number of conduits as specified by OG&E  
\* Not shown

### Notes

- Place caps on **top of pipes** to keep moisture from inside of pipe to prevent deterioration.
- 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**.
- 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.
- 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.**

**OG&E<sup>®</sup>**

## METER INSTALLATION

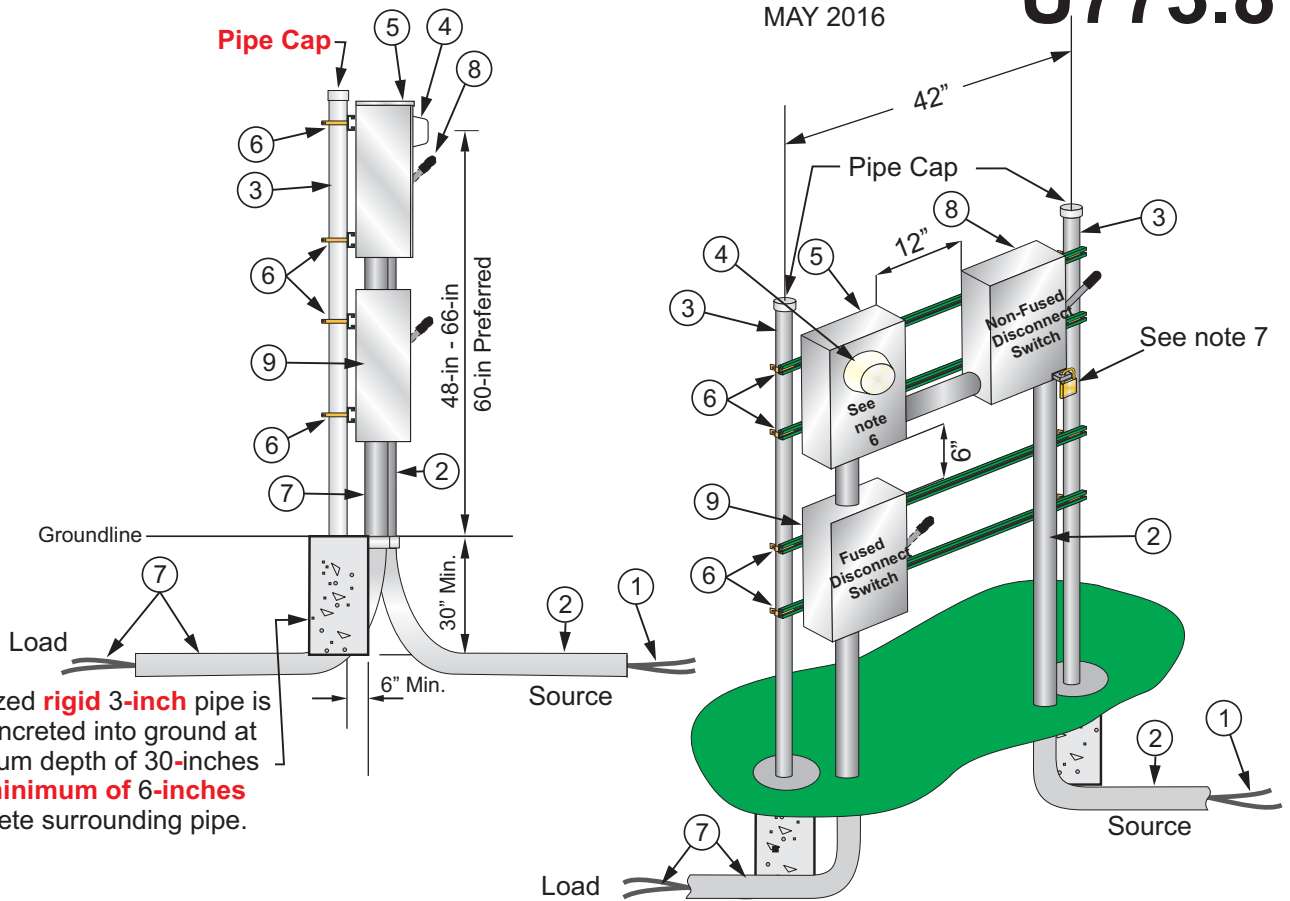
FOR SELF-CONTAINED SINGLE OR THREE PHASE METER  
240/120, 240Δ/120, OR 208Y/120 VOLTS 400-AMPERES MAXIMUM

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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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 <b>Rigid</b> Pipe set in concrete		X		X
4	Meter	X		X	
5	Meter Base, <b>281086</b>	X			X
6	1 5/8-inch Kindorf <b>and Clamps</b>		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

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** 42-inches apart with 1-5/8-inch Kindorf between **pipes** to attach equipment.
4. The use of a disconnect ahead of the meter is required for 480 volt applications.
5. Refer to **U773.11** for 480 volt two-wire wiring details.
6. For all 480V applications install sticker, **302228**, on meter base.
7. OG&E to secure load-break disconnect box with series 1 lock (stk#**301326**).
8. Refer to U16 for proper identification and marking.
9. **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**



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