



## BURLINGTON ELECTRIC DEPARTMENT

Please read through the following standards and if you have any questions or would like to schedule an onsite meeting, please contact Dan Gokey at 802-578-3048

Only Burlington Electric personnel may pull meters. Some work may require wire inspector approval before reenergizing

For meter pulls or working with cold metering during business hours (7am-3pm) please contact BED metering

802-489-8873 802-497-7018 802-734-5221 802-578-3048

For emergencies, after hours, or working with cold metering (24/7) please contact Burlington Electric Dispatch at 802-865-7300 and press 1 to be transferred directly to dispatch.

Burlington Electric personnel must be present when pulling wire or installing conduit into and Burlington Electric owned vault or hand hole.

Only BED personnel may make connections with Burlington Electric owned conductors or transformers

Solar or other grid tied generators may not be energized even for testing purposes without wire inspector approvals.

Meter jumpers are not to be used under any circumstances without BED's knowledge and written permission.

## SERVICES - GENERAL

### 1.0 SCOPE:

- 1.1 THIS STANDARD DESCRIBES THE GENERAL REQUIREMENTS NEEDED FOR THE CONSTRUCTION AND/OR PLACEMENT OF EQUIPMENT USED TO METER ELECTRICAL SERVICE.

THE BURLINGTON ELECTRIC DEPARTMENT SHALL HAVE FINAL DETERMINATION AS TO THE TYPE OF METERING TO BE PROVIDED. BED SHOULD BE CONSULTED PRIOR TO IMPLEMENTING ANY OF THE REQUIREMENTS LISTED IN THIS STANDARD.

### 2.0 GENERAL:

- 2.1 ALL REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, AND OF LOCAL WIRING CODES, SHALL BE COMPLIED WITH.
- 2.2 ALL METER LOCATIONS SHALL BE LOCATED ON THE EXTERIOR OF THE BUILDING OR UNIT TO BE SERVICED. THE ACTUAL LOCATION MUST BE DETERMINED BY BED. METERS WILL NOT BE INSTALLED WHERE SUBJECT TO VIBRATION, MECHANICAL INJURY, NOR IN DANGEROUS OR INACCESSIBLE LOCATIONS.  
EXCEPTIONS: INDOOR LOCATIONS MAY BE APPROVED ONLY IF BED DETERMINES IT TO BE OTHERWISE IMPRACTICAL. ALL EXCEPTIONS MUST BE PROVIDED IN WRITING.
- 2.3 A MINIMUM OF 4' SHALL BE KEPT CLEAR FROM THE FRONT OF THE METER AT ALL TIMES. ACCESS TO THE METER SHALL BE AVAILABLE AT ALL TIMES TO BED PERSONNEL.
- 2.4 THE TOP OF ALL METER CHANNELS SHALL BE MOUNTED AT AN ELEVATION BETWEEN 4' AND 5'-6" OF FINAL GRADE, 5' BEING PROVIDED IF POSSIBLE.  
EXCEPTION: UNLESS OTHERWISE SPECIFIED BY BED.
- 2.5 METER CHANNELS SHALL BE ATTACHED TO THE STRUCTURE WITH AT LEAST (4) NO. 12 ROUND HEAD SCREWS OF SUFFICIENT LENGTH (TYPICALLY 1.5" LONG) TO REACH THROUGH THE EXTERIOR SHEATHING OF WOODEN STRUCTURES. APPROVED EXPANSION BOLTS OR ANCHORS SHALL BE USED FOR MASONRY BUILDINGS. ALL CHANNELS SHALL BE PLUMB.
- 2.6 IF MORE THAN ONE METER IS TO BE INSTALLED, THEY SHALL BE GROUPED AT ONE LOCATION, AND EACH SOCKET SHALL BE CLEARLY AND PERMANENTLY IDENTIFIED AS TO THE SPACE OR APARTMENT IT SERVES.  
EXCEPTION: IN BUILDINGS OVER 4 FLOORS IN HEIGHT, THE METERS MAY BE GROUPED IN SUITABLE SPACES PROVIDED ON EACH FLOOR. OTHER EXCEPTIONS, WITH CAUSE, MAY BE ALLOWED BY BED. ALL EXCEPTIONS SHALL BE PROVIDED IN WRITING.
- 2.7 METER SOCKETS, CABINETS, CONNECTING CONDUITS AND SIMILAR DEVICES SHALL NOT CONTAIN ANY WIRES OR CONNECTIONS OTHER THAN THOSE REQUIRED FOR METERING OR FOR THE CONNECTION OF THE METERING TO THE LINE OR PANEL.  
EXCEPTION: WIRES NECESSARY FOR CARRYING APPROVED CONTROL SIGNALS FROM THE METER.
- 2.8 ALL METERS AND POINTS OF ACCESS TO UNMETERED WIRING WITHIN A BUILDING (I.E., CT CABINETS, CABLE TRAYS, ETC.) WILL BE INSPECTED AND SEALED BY BED, AND SHALL BE MADE SEALABLE BY THE CUSTOMER BEFORE SERVICE IS SUPPLIED.
- 2.9 ALL METERS OR METERING INSTRUMENT TRANSFORMERS SHALL BE LOCATED BEFORE ANY SERVICE DISCONNECT DEVICES UNLESS BED FINDS IT TO BE IMPRACTICAL AND PROVIDES WRITTEN APPROVAL TO THE CONTRARY.

**BURLINGTON ELECTRIC DEPT.**

**DISTRIBUTION STANDARDS**

**SERVICES  
GENERAL**

DATE: 01/04/13

DWG. NO.: 200301

DWN BY: RG

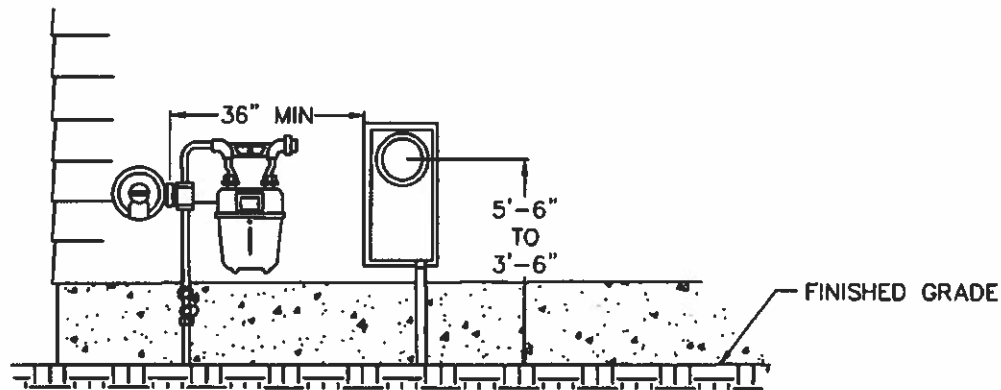
APP. BY:

SCALE: NONE

SHEET 1 OF 6

### 2.10 ELECTRIC AND GAS CLEARANCES:

NEWLY INSTALLED OUTDOOR ELECTRIC METERS SHALL NOT BE LOCATED ABOVE OR BELOW GAS REGULATING VENTS AND MUST MAINTAIN A MINIMUM 36" HORIZONTAL DISTANCE FROM A GAS REGULATING VENT. IN ALL CASES, THE GAS SERVICE PROVIDER SHALL BE CONSULTED REGARDING THE LOCATION OF GAS METERS NEAR ELECTRIC METERS OR ELECTRICAL EQUIPMENT.



### 3.0 SECONDARY METERING (BELOW 600V):

3.1 ON SERVICES OF 200A\* OR BELOW, SINGLE OR MULTI-PHASE, THE CUSTOMER SHALL SUPPLY AND INSTALL A SELF-CONTAINED METER SOCKET(S) MEETING THE REQUIREMENTS OF BED SELF-CONTAINED METERING ON STANDARD PAGE 200303.

\*SELF-CONTAINED METER SOCKET(S) MEETING THE REQUIREMENTS OF BED SELF-CONTAINED METERING SPECIFICATIONS A.1. AND A.4. MAY ACCOMMODATE SERVICE(S) UP TO 400A.

3.2 ON SERVICES OVER 200A, SINGLE OR MULTI-PHASE, THE CUSTOMER SHALL SUPPLY AND INSTALL A SUITABLE CURRENT TRANSFORMER CABINET(S) AND A 1.25" RIGID CONDUIT BETWEEN THE CABINET AND METER SOCKET. BED SHALL PROVIDE AND THE CUSTOMER SHALL INSTALL THE METER CHANNEL AND CURRENT TRANSFORMERS. THE CURRENT TRANSFORMERS SHALL BE INSTALLED AS DIRECTED BY BED. ALL WIRING TO THE SECONDARY TERMINALS OF THE CURRENT TRANSFORMERS AND TO THE METER SOCKET WILL BE DONE BY BED PERSONNEL. UNDER NO CONDITION SHALL THE CUSTOMER MAKE OR CHANGE ANY CONNECTION TO THE CURRENT TRANSFORMER OR METER SOCKET.

WHERE CUSTOMER OWNED SWITCHGEAR IS INVOLVED, THE CUSTOMER SHALL SUPPLY THE NAME AND ADDRESS OF THE VENDOR ALONG WITH ANY OTHER PERTINENT INFORMATION TO BED. BED SHALL SPECIFY THE SIZE AND TYPE OF THE CURRENT TRANSFORMER AND WHENEVER POSSIBLE, SHALL ORDER AND ARRANGE TO SHIP THESE DEVICES TO THE SWITCHGEAR MANUFACTURER FOR FACTORY INSTALLATION.

**BURLINGTON ELECTRIC DEPT.**

**DISTRIBUTION STANDARDS**

**SERVICES  
GENERAL**

DATE: 06/04/24

DWG. NO.: 200302

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SCALE: NONE

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#### 4.0 PRIMARY METERING (OVER 600V):

- 4.1 ALL CURRENT TRANSFORMERS, POTENTIAL TRANSFORMERS, AND WIRING TO THESE DEVICES SHALL BE SUPPLIED AND INSTALLED BY BED. THE METER CHANNEL SHALL BE SUPPLIED BY BED AND INSTALLED BY THE CUSTOMER. THE CUSTOMER SHALL SUPPLY A 1.25" CONDUIT BETWEEN THE INSTRUMENT TRANSFORMERS AND THE METER CHANNEL.

EXCEPTION: WHERE CONDUIT INSTALLATION REQUIRES WORK CLOSE TO ENERGIZED HIGH VOLTAGE LINES, THAT PORTION OF THE WORK MAY BE DONE BY BED PERSONNEL.

- 4.2 WHERE CUSTOMER OWNED SWITCHGEAR IS INVOLVED, THE CUSTOMER SHALL SUPPLY THE NAME AND ADDRESS OF THE VENDOR ALONG WITH ANY OTHER PERTINENT INFORMATION TO BED. BED SHALL SPECIFY THE SIZE AND TYPE OF THE INSTRUMENT TRANSFORMERS AND WHENEVER POSSIBLE SHALL ORDER AND ARRANGE TO SHIP THESE DEVICES TO THE SWITCHGEAR MANUFACTURER FOR FACTORY INSTALLATION.

#### METER SOCKET SPECIFICATIONS

##### TRANSFORMER RATED METERING:

BED SHALL SUPPLY ALL THE NECESSARY METER MOUNTING DEVICES FOR TRANSFORMER RATED METERING. TRANSFORMER RATED METERING SHALL BE USED ONLY WHEN BED DETERMINES THAT SELF-CONTAINED METERING IS IMPRACTICAL (SEE BELOW). IN ALL CASES, BED SHALL SPECIFY THE TYPE OF METERING TO BE INSTALLED.

##### SELF-CONTAINED METERING:

SELF-CONTAINED METERING IS STANDARD WHERE THE LOAD BEING SERVED OR EXPECTED TO BE SERVED IS NOT MORE THAN 200A\*, AND WHERE, ON GROUNDED SYSTEMS THE LINE TO GROUND VOLTAGE DOES NOT EXCEED 300V. ON UNGROUNDED SYSTEMS THE LINE TO LINE VOLTAGE CANNOT EXCEED 300V. IN ALL CASES BED SHALL SPECIFY THE TYPE OF METERING THAT IS TO BE INSTALLED.

\*SELF-CONTAINED METER SOCKET(S) MEETING THE REQUIREMENTS OF BED SELF-CONTAINED METERING SPECIFICATIONS A.1. AND A.4. MAY ACCOMMODATE SERVICE(S) UP TO 400A.

THE CUSTOMER SHALL FURNISH AND INSTALL A METER SOCKET WHICH MEETS THE APPROPRIATE SECTION(S) OF THIS STANDARD.

##### A) TYPE OF SERVICES:

###### 1) OVERHEAD SINGLE PHASE, THREE WIRE 120/240V SERVICES:

- a) RESIDENTIAL: THE CUSTOMER SHALL SUPPLY A SOCKET MEETING PART B OF THIS STANDARD, "GENERAL SOCKET SPECIFICATIONS". MANUAL BYPASSES ARE NOT REQUIRED BUT ARE PERMISSIBLE FOR 200A SOCKETS IF THEY MEET PART C OF THIS STANDARD, "MANUAL BYPASSES". FOR SOCKETS RATED GREATER THAN 200A, MANUAL BYPASSES ARE REQUIRED AND MUST MEET PART C OF THIS STANDARD, "MANUAL BYPASSES".
- b) COMMERCIAL AND INDUSTRIAL: THE CUSTOMER SHALL SUPPLY A SOCKET WITH A MANUAL BYPASS THAT MEETS BOTH SECTIONS B & C OF THIS STANDARD, "GENERAL SOCKET SPECIFICATIONS" AND "MANUAL BYPASSES".

**BURLINGTON ELECTRIC DEPT.**

**DISTRIBUTION STANDARDS**

**SERVICES  
GENERAL**

DATE: 05/22/23

DWG. NO.: 200303

DWN BY: RG

APP. BY:

SCALE: NONE

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- 2) OVERHEAD SINGLE PHASE, THREE WIRE 120/208V (NETWORK) SERVICES:
- a) RESIDENTIAL: THE CUSTOMER SHALL SUPPLY A METER SOCKET WITH A FIFTH TERMINAL AT THE 9 O'CLOCK POSITION. IT SHALL MEET PART B OF THIS STANDARD, "GENERAL SOCKET SPECIFICATIONS". MANUAL BYPASSES ARE NOT REQUIRED BUT ARE PERMISSIBLE IF THEY MEET PART C OF THIS STANDARD, "MANUAL BYPASSES".
  - b) COMMERCIAL AND INDUSTRIAL: THE CUSTOMER SHALL SUPPLY A METER SOCKET WITH A FIFTH TERMINAL AT THE 9 O'CLOCK POSITION, A MANUAL BYPASS, AND TERMINAL SHIELDS. THE SOCKET SHALL MEET SECTIONS B & C OF THIS STANDARD, "GENERAL SOCKET SPECIFICATIONS" AND "MANUAL BYPASSES".
- 3) OVERHEAD THREE PHASE SERVICES:
- a) ALL CUSTOMERS: THE CUSTOMER SHALL SUPPLY A (7) TERMINAL METER SOCKET FOR 3-PHASE FOUR WIRE SERVICES, AND A (5) TERMINAL METER SOCKET FOR 3-PHASE THREE WIRE SERVICES. THE SOCKET SHALL HAVE A MANUAL BYPASS AND COMPLY WITH SECTIONS B & C OF THIS STANDARD, "GENERAL SOCKET SPECIFICATIONS" AND "MANUAL BYPASSES". FOR MULTIPLE SOCKET INSTALLATIONS, BED MUST BE CONSULTED TO DETERMINE THE SPECIAL REQUIREMENTS FOR THIS TYPE OF INSTALLATION.
- 4) UNDERGROUND SINGLE PHASE, THREE WIRE SERVICES:
- a) RESIDENTIAL: THE CUSTOMER SHALL SUPPLY A MINIMUM OF A 200A RATED SOCKET. THE MINIMUM DIMENSIONS SHALL BE 14"H X 12"W X 4.375"D WITH KNOCKOUTS FOR A MINIMUM OF 2.5" CONDUIT. THE LINE AND LOAD LUGS SHALL BE CAPABLE OF ACCEPTING 350 MCM CU/AL. THE SOCKET SHALL MEET PART B OF THIS STANDARD, "GENERAL SOCKET SPECIFICATIONS". MANUAL BYPASSES ARE NOT REQUIRED FOR 200A SOCKETS BUT ARE PERMISSIBLE IF THEY MEET PART C OF THIS STANDARD, "MANUAL BYPASSES". FOR SOCKETS RATED GREATER THAN 200A, MANUAL BYPASSES ARE REQUIRED AND MUST MEET PART C OF THIS STANDARD, "MANUAL BYPASSES".
  - b) COMMERCIAL AND INDUSTRIAL: THE CUSTOMER SHALL SUPPLY A MINIMUM OF A 200A RATED SOCKET. THE MINIMUM DIMENSIONS SHALL BE 14"H X 12"W X 4.375"D WITH KNOCKOUTS FOR A MINIMUM OF 2.5" CONDUIT. THE LINE AND LOAD LUGS SHALL BE CAPABLE OF ACCEPTING 350 MCM CU/AL. THE SOCKET SHALL HAVE A MANUAL BYPASS AND SHALL MEET PARTS B & C OF THIS STANDARD, "GENERAL SOCKET SPECIFICATIONS" AND "MANUAL BYPASSES".
- 5) UNDERGROUND SINGLE PHASE, THREE WIRE 120/208V (NETWORK) SERVICES:
- a) RESIDENTIAL: THE CUSTOMER SHALL SUPPLY A MINIMUM OF A 200A RATED SOCKET. THE MINIMUM DIMENSIONS SHALL BE 14"H X 12"W X 4.375"D WITH KNOCKOUTS FOR A MINIMUM OF 2.5" CONDUIT. THE LINE AND LOAD LUGS SHALL BE CAPABLE OF ACCEPTING 350 MCM CU/AL. THE SOCKET SHALL HAVE A FIFTH TERMINAL AT THE 9 O'CLOCK POSITION. THE SOCKET SHALL ALSO MEET PART B OF THIS STANDARD, "GENERAL SOCKET SPECIFICATIONS". MANUAL BYPASSES ARE NOT REQUIRED BUT ARE PERMISSIBLE IF THEY MEET PART C OF THIS STANDARD, "MANUAL BYPASSES".

BURLINGTON ELECTRIC DEPT.

DISTRIBUTION STANDARDS

SERVICES  
GENERAL

DATE: 05/22/23

DWG. NO.: 200304

DWN BY: RG

APP. BY:

SCALE: NONE

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- b) COMMERCIAL AND INDUSTRIAL: THE CUSTOMER SHALL SUPPLY A MINIMUM OF A 200A RATED SOCKET. THE MINIMUM DIMENSIONS SHALL BE 14"H X 12"W X 4.375"D WITH KNOCKOUTS FOR A MINIMUM OF 2.5" CONDUIT. THE LINE AND LOAD LUGS SHALL BE CAPABLE OF ACCEPTING 350 MCM CU/AL. THE SOCKET SHALL HAVE A FIFTH TERMINAL AT THE 9 O'CLOCK POSITION, A MANUAL BYPASS, AND TERMINAL SHIELDS. IT SHALL COMPLY WITH BOTH PARTS B & C OF THIS STANDARD, "GENERAL SOCKET SPECIFICATIONS" AND "MANUAL BYPASSES".
- 6) UNDERGROUND THREE PHASE, THREE AND FOUR WIRE SERVICES ONLY:
- a) ALL CUSTOMERS: THE CUSTOMER SHALL SUPPLY A MINIMUM OF A 200A RATED SOCKET. THE LINE AND LOAD LUGS SHALL BE CAPABLE OF ACCEPTING 350 MCM CU/AL. THE SOCKET SHALL HAVE A MANUAL BYPASS AND MEET BOTH SECTIONS B & C OF THIS STANDARD, "GENERAL SOCKET SPECIFICATIONS" AND "MANUAL BYPASSES". FOR MULTIPLE SOCKET INSTALLATIONS, BED MUST BE CONSULTED TO DETERMINE ITS REQUIREMENTS FOR THIS TYPE OF INSTALLATION.
- B) GENERAL SOCKET SPECIFICATIONS:
1. SOCKETS SHALL BE "UL" APPROVED FOR THEIR LOCATION AND USE.
  2. SOCKETS SHALL BE OF THE RECTANGULAR SHEET METAL TYPE. ROUND TYPE SOCKETS OR CAST METAL SOCKETS ARE NOT PERMITTED.
  3. THE SOCKET RATING SHALL EQUAL OR EXCEED THE CAPACITY OF THE SERVICE ENTRANCE EQUIPMENT AND CONDUCTORS.
  4. SOCKETS MAY BE THE RING TYPE OR RINGLESS.
  5. AUTOMATIC BYPASSES ARE NOT PERMITTED UNDER ANY CIRCUMSTANCES. SOCKETS WITH A MANUAL BYPASS MAY BE USED IF THE SOCKETS MEET THE ADDITIONAL REQUIREMENTS OF PART C OF THIS STANDARD, "MANUAL BYPASSES".
  6. THERE SHALL NOT BE MORE THAN (3) VERTICAL POSITIONS AT ANY MULTIPLE SOCKET INSTALLATIONS.
  7. ALL FOUR TERMINAL SOCKETS SHALL HAVE THE CAPABILITY OF ADDING A FIFTH AND SIXTH TERMINAL BETWEEN THE UPPER AND LOWER TERMINALS (3 AND 9 O'CLOCK POSITIONS) WITHOUT REMOVING THE TERMINAL BLOCKS.
  8. COVER PLATES SHALL BE THE APPROVED CLEAR PLASTIC TYPE. BED WILL SUPPLY THEM. THEY WILL BE USED AFTER THE WIRING IS COMPLETED TO PROTECT THE INTERIOR UNTIL A METER IS SET.
  9. SEALING RINGS, IF REQUIRED, SHALL BE SUPPLIED BY THE CUSTOMER.
- C) MANUAL BYPASSES:
1. AUTOMATIC BYPASSES ARE PROHIBITED.
  2. BYPASSES SHALL HAVE A SINGLE, INDEPENDENT, HAND-OPERATED MECHANISM.
  3. THE NON-BYPASSED, IN SERVICE POSITION OF THE OPERATING MECHANISM MUST BE VISIBLE WHEN THE METER IS INSTALLED WITHOUT THE SOCKET COVER FOR TEST PURPOSES.
  4. IT MUST NOT BE POSSIBLE TO REPLACE THE SOCKET COVER WHEN THE OPERATING MECHANISM HANDLE IS IN THE BYPASSED POSITION.
  5. BYPASSES MUST NOT BE USED AS LOAD BREAKING DEVICES.
  6. BYPASSES WHICH REQUIRE AUXILIARY EQUIPMENT, SUCH AS JUMPERS, ARE NOT PERMITTED.
  7. ALL THREE PHASE SOCKETS WITH BYPASSES MUST HAVE A MECHANISM WHICH LOCKS THE METER BLADES IN THE SOCKET JAWS WHEN IN THE NON-BYPASSED (IN SERVICE) POSITION, AND WHICH WILL RELEASE THE BLADES IN THE BYPASSED POSITION.

**BURLINGTON ELECTRIC DEPT.****DISTRIBUTION STANDARDS****SERVICES  
GENERAL**

DATE: 01/04/13

DWG. NO.: 200305

DWN BY: RG

APP. BY:

SCALE: NONE

SHEET 5 OF 6

SERVICES SHALL BE DESIGNED SO THAT VOLTAGE DROP FROM THE SECONDARY TERMINALS TO THE METER DOES NOT EXCEED 1.0 VOLTS. OVERHEAD RESIDENTIAL SERVICES SHALL BE LIMITED TO 100'. UNDERGROUND SERVICE SIZES AND LENGTHS ARE DESCRIBED IN SECTION 1600.

MIDSPAN SERVICE ATTACHMENTS MAY BE MADE ONLY WHEN NECESSARY.

REFER TO SECTION 0400 FOR OVERHEAD SERVICE CLEARANCES.

ALUMINUM WIRE SHALL NOT BE CONNECTED DIRECTLY TO TRANSFORMER TERMINALS. REFER TO SECTION 1300 FOR TRANSFORMER CONNECTIONS.

THE METER LOCATION SHALL BE:

1. WHERE SNOW AND RAIN WILL NOT FALL FROM ROOFS ONTO THE METER.
2. ACCESSIBLE TO THE METER READER AT ALL TIMES.

DISTRIBUTION SHALL DETERMINE THE BEST LOCATION FOR THE SERVICE.

LINE-TO-NEUTRAL, LINE-TO-LINE, AND LINE-TO-LOAD VOLTAGE TESTS SHALL BE MADE ON ALL NEW SERVICES. READINGS SHALL BE TAKEN AT THE METER SOCKET. READINGS AND TIME ARE TO BE RECORDED.

**BURLINGTON ELECTRIC DEPT.**

**DISTRIBUTION STANDARDS**

**SERVICES  
GENERAL**

DATE: 01/04/13

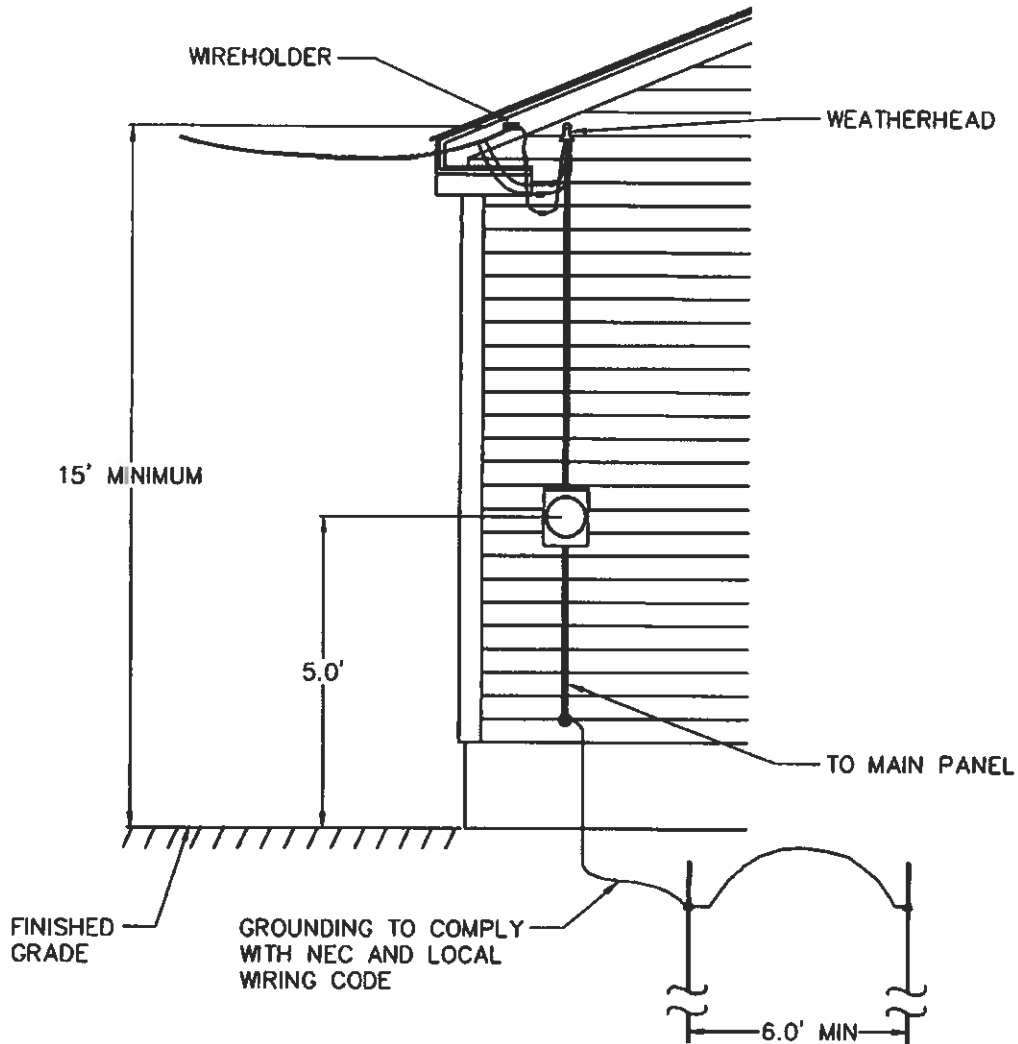
DWG. NO.: 200306

DWN BY: RG

APP. BY:

SCALE: NONE

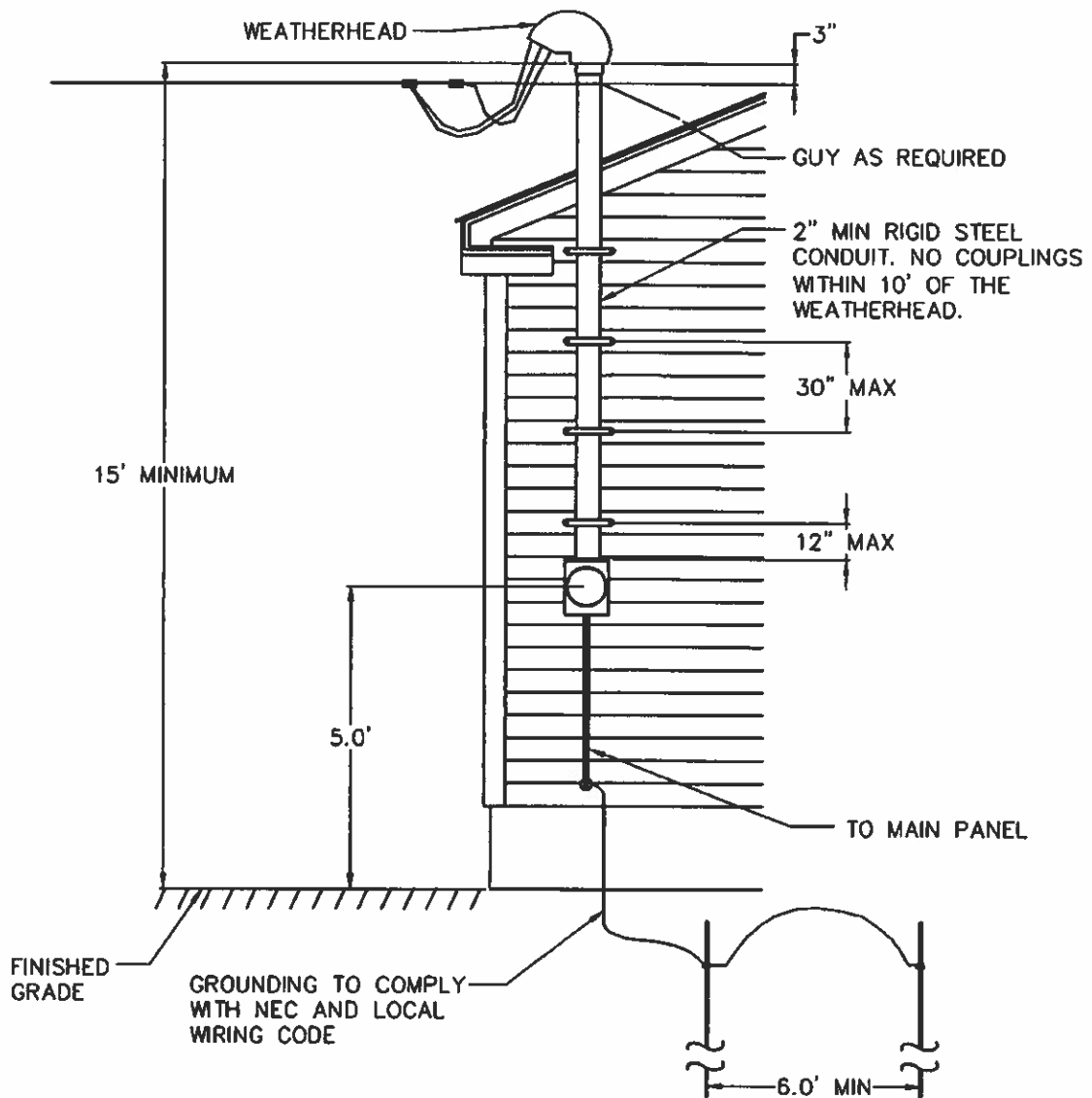
SHEET 6 OF 6



**NOTES**

1. METER LOCATION AND POINT OF ATTACHMENT TO BE APPROVED BY BED REPRESENTATIVE.
2. WEATHERHEAD SHALL BE ABOVE THE POINT OF ATTACHMENT IF POSSIBLE, BUT MUST ALWAYS BE WITHIN 24" OF ATTACHMENT POINT.
3. ALL SPLICES BETWEEN WEATHERHEAD AND BUILDING ATTACHMENT SHALL BE MADE BELOW THE LEVEL OF THE WEATHERHEAD.
4. METER SOCKETS 200A AND ABOVE SHALL COMPLY WITH BED STANDARD 3.2 UNDER SECTION 200302.
5. MAIN BREAKER SHALL BE WITHIN 10' OF SERVICE CABLE ENTRANCE.
6. THREE FEET OF SERVICE ENTRANCE CABLE SHALL BE LEFT ON THE LINE SIDE OF THE WEATHERHEAD.
7. BUILDINGS WITH MASONRY OR MASONRY LIKE EXTERIORS, THE CUSTOMER SHALL PROVIDE A BUILDING ATTACHMENT ANCHOR OF ADEQUATE STRENGTH, ABLE TO SUPPORT THE STRAIN OF THE SERVICE DROP.

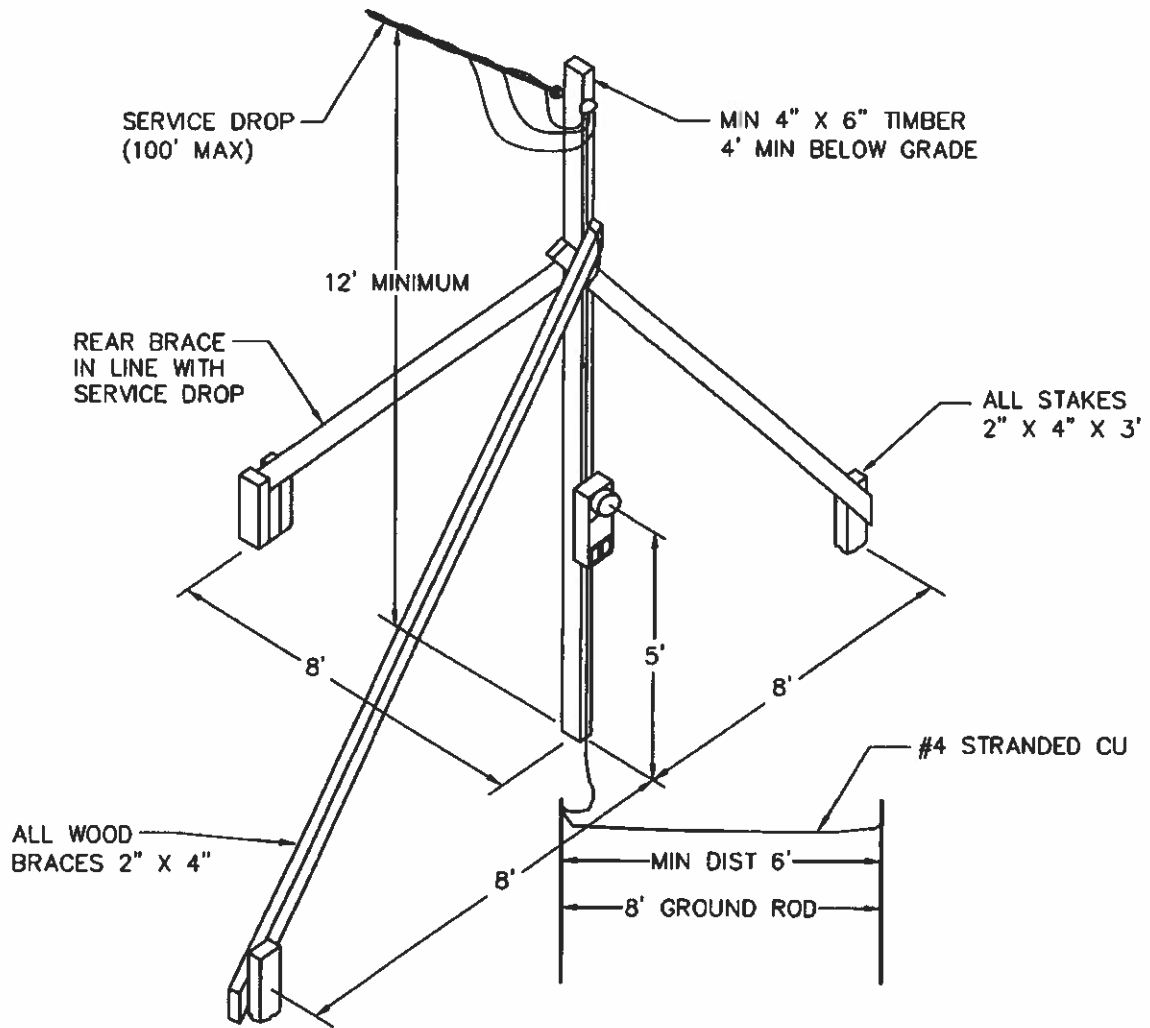
<b>BURLINGTON ELECTRIC DEPT.</b>	
<b>DISTRIBUTION STANDARDS</b>	
<b>OVERHEAD RESIDENTIAL SERVICE</b>	
DATE: 10/30/24	DWG. NO.: 200601
DWN BY: RG	APP. BY:
SCALE: NONE	SHEET 1 OF 2



**NOTES**

1. NO OTHER EQUIPMENT SHALL BE INSTALLED TO THE MAST.
2. METER LOCATION AND REQUIREMENT OF GUY WIRE FOR MAST SHALL BE APPROVED BY BED REPRESENTATIVE.
3. CUSTOMER ASSUMES RESPONSIBILITY THAT THE MAST IS OF ADEQUATE STRENGTH AND ABLE TO SUPPORT THE STRAIN OF THE SERVICE DROP.
4. METER SOCKETS 200A AND ABOVE SHALL COMPLY WITH BED STANDARD 3.2 UNDER SECTION 200302.
5. THREE FEET OF SERVICE ENTRANCE CABLE SHALL BE LEFT ON THE LINE SIDE OF THE WEATHERHEAD.

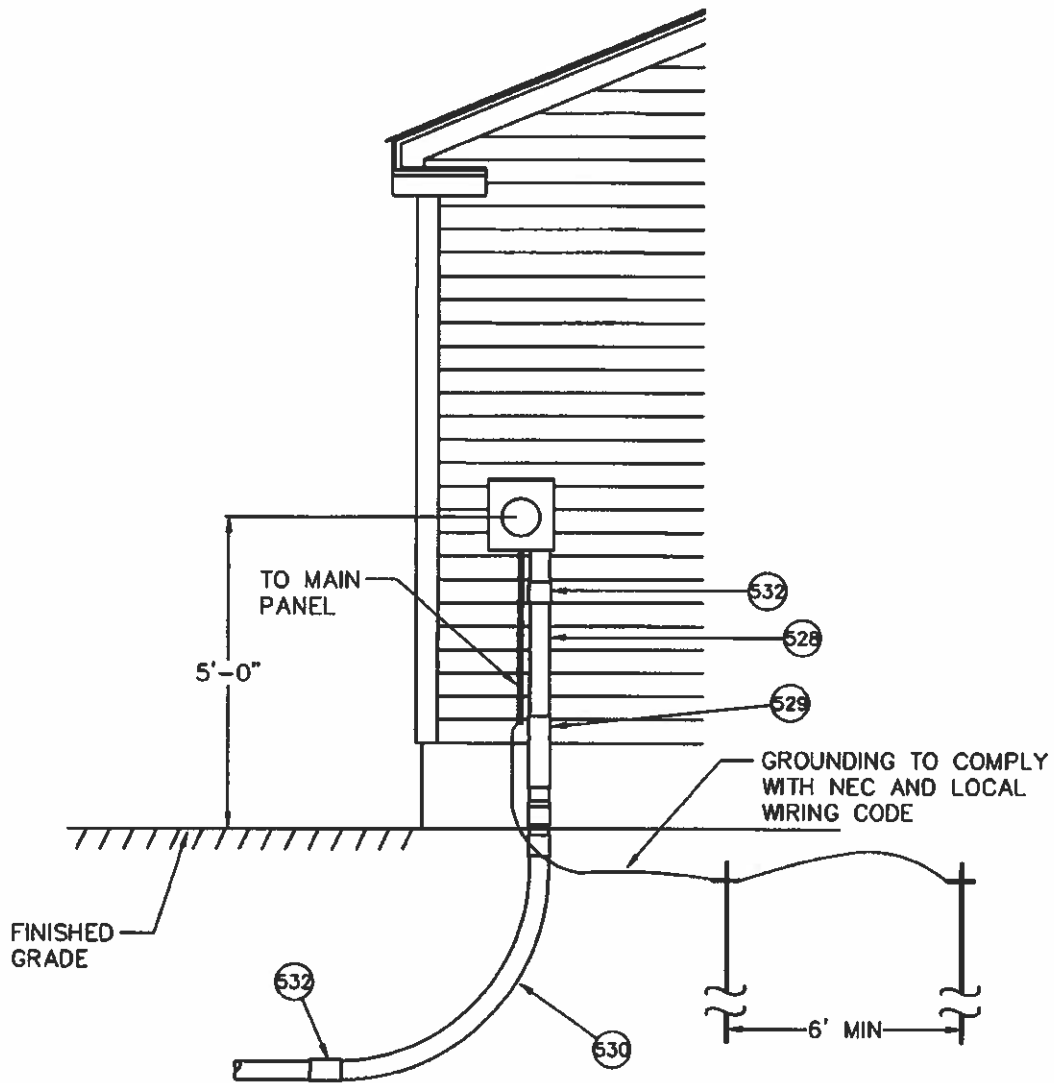
<b>BURLINGTON ELECTRIC DEPT.</b>	
<b>DISTRIBUTION STANDARDS</b>	
<b>OVERHEAD MAST SERVICE</b>	
DATE: 01/28/13	DWG. NO.: 200602
DWN BY: RG	APP. BY:
SCALE: NONE	SHEET 2 OF 2



**NOTES**

1. RAIN TIGHT SERVICE EQUIPMENT, WITH GROUND FAULT PROTECTION AND PROVISION FOR LOCKING, AND ALL OTHER MATERIALS AND EQUIPMENT TO BE OWNED AND INSTALLED BY CUSTOMER, BED TO INSTALL METER, SERVICE DROP AND CONNECT SERVICE DROP AT WEATHERHEAD.
2. SERVICE LOCATION AND TYPE OF CONSTRUCTION MUST BE APPROVED IN ADVANCE BY BED. INSTALLATION ON STRUCTURES OTHER THAN SHOWN ABOVE WILL BE PERMITTED ONLY WITH ADVANCE APPROVAL OF BED.
3. ELECTRICAL INSPECTION MUST BE MADE PRIOR TO ENERGIZING.
4. ADDITIONAL HEIGHT MAY BE REQUIRED FOR PROPER CLEARANCE WHEN TEMPORARY SERVICE STRUCTURE IS ON OPPOSITE SIDE OF ROAD FROM BED SERVICE POLE, OR WHERE CLEARANCE IS NEEDED OVER AREAS SUBJECT TO HEAVY TRUCK TRAFFIC.

<b>BURLINGTON ELECTRIC DEPT.</b>	
<b>DISTRIBUTION STANDARDS</b>	
<b>OVERHEAD SERVICE</b>	
DATE: 06/25/98	DWG. NO.: 200701
DWN BY: RG	APP. BY:
SCALE: NONE	SHEET 1 OF 1



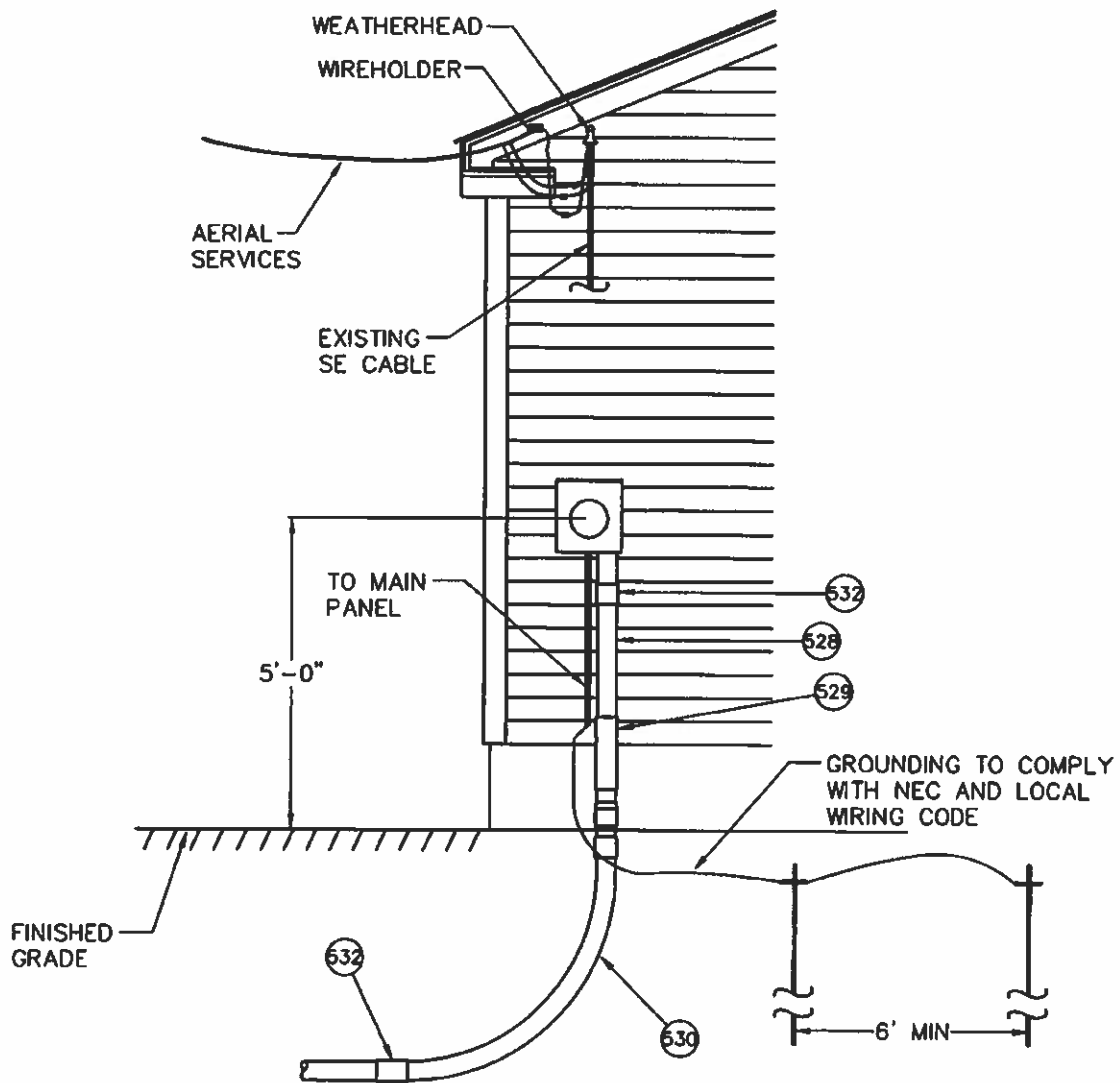
**NOTES**

1. METER LOCATION TO BE APPROVED BY A BED REPRESENTATIVE.
2. REFER TO CONDUIT USAGE CHART FOR CONDUIT REQUIREMENTS.
3. METER SOCKETS 200 AMPS AND ABOVE SHALL COMPLY WITH BED STANDARD 3.2 UNDER SECTION 200302.
4. MAIN BREAKER SHALL BE WITHIN 10' OF SERVICE CABLE ENTRANCE.

**MATERIAL LIST**

ITEM	QUANTITY	DESCRIPTION
528	AS REQUIRED	CONDUIT
529	AS REQUIRED	EXPANSION COUPLING
530	AS REQUIRED	CONDUIT SWEEP, 36" RADIUS
532	AS REQUIRED	COUPLING, PVC

<b>BURLINGTON ELECTRIC DEPT.</b>	
<b>DISTRIBUTION STANDARDS</b>	
<b>UNDERGROUND RESIDENTIAL SERVICE</b>	
DATE: 01/28/13	DWG. NO.: 201101
DWN BY: RG	APP. BY:
SCALE: NONE	SHEET 1 OF 1



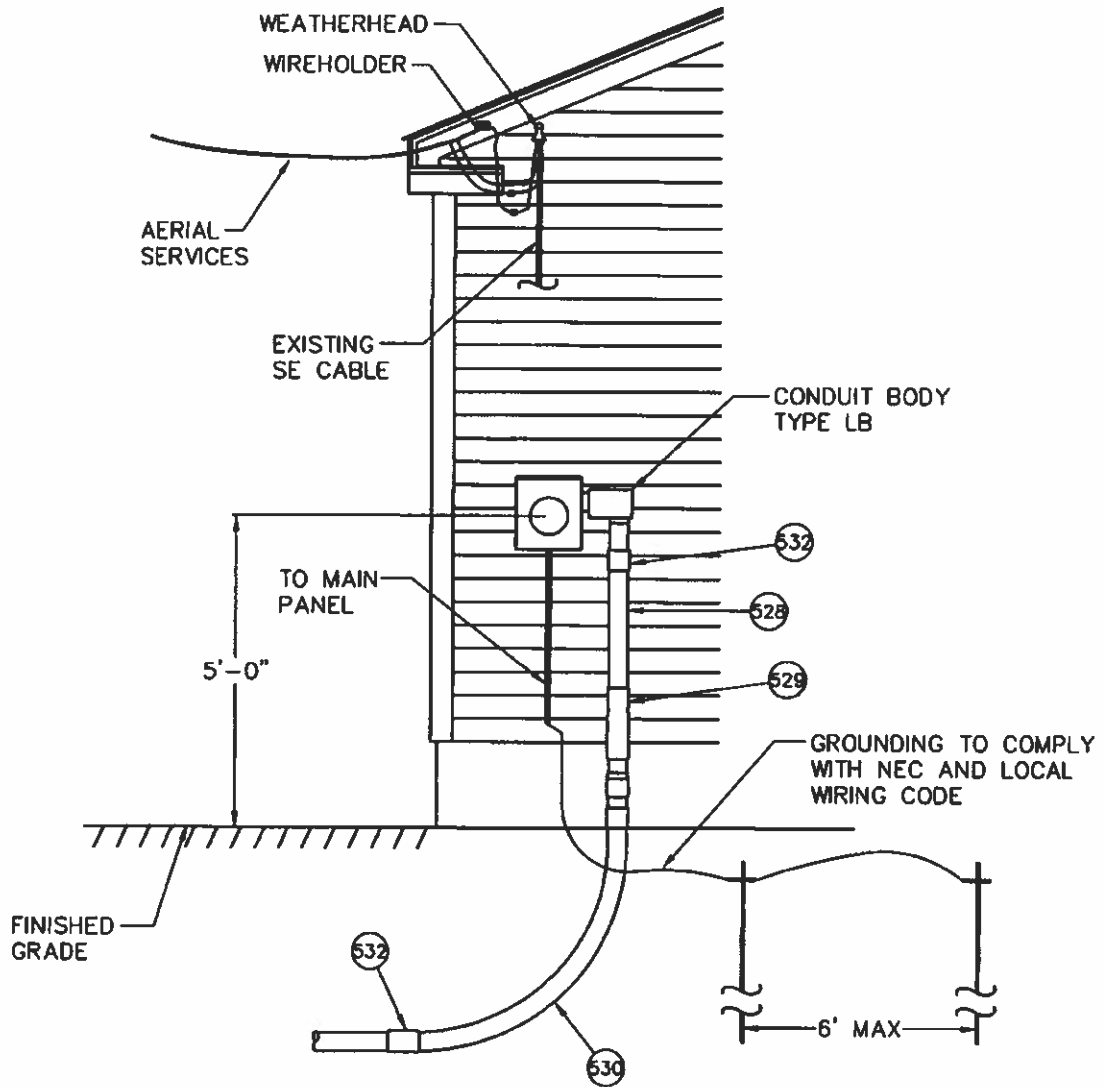
**NOTES**

- 1. REFER TO CONDUIT USAGE CHART FOR CONDUIT REQUIREMENTS.

**MATERIAL LIST**

ITEM	QUANTITY	DESCRIPTION
528	AS REQUIRED	CONDUIT
529	AS REQUIRED	EXPANSION COUPLING
530	AS REQUIRED	CONDUIT SWEEP, 36" RADIUS
532	AS REQUIRED	COUPLING, PVC

<b>BURLINGTON ELECTRIC DEPT.</b>	
<b>DISTRIBUTION STANDARDS</b>	
<b>CONVERSION OF OVERHEAD SERVICE TO UNDERGROUND SERVICE - OPTION 1</b>	
DATE: 01/28/13	DWG. NO.: 201201
DWN BY: RG	APP. BY:
SCALE: NONE	SHEET 1 OF 3



**NOTES**

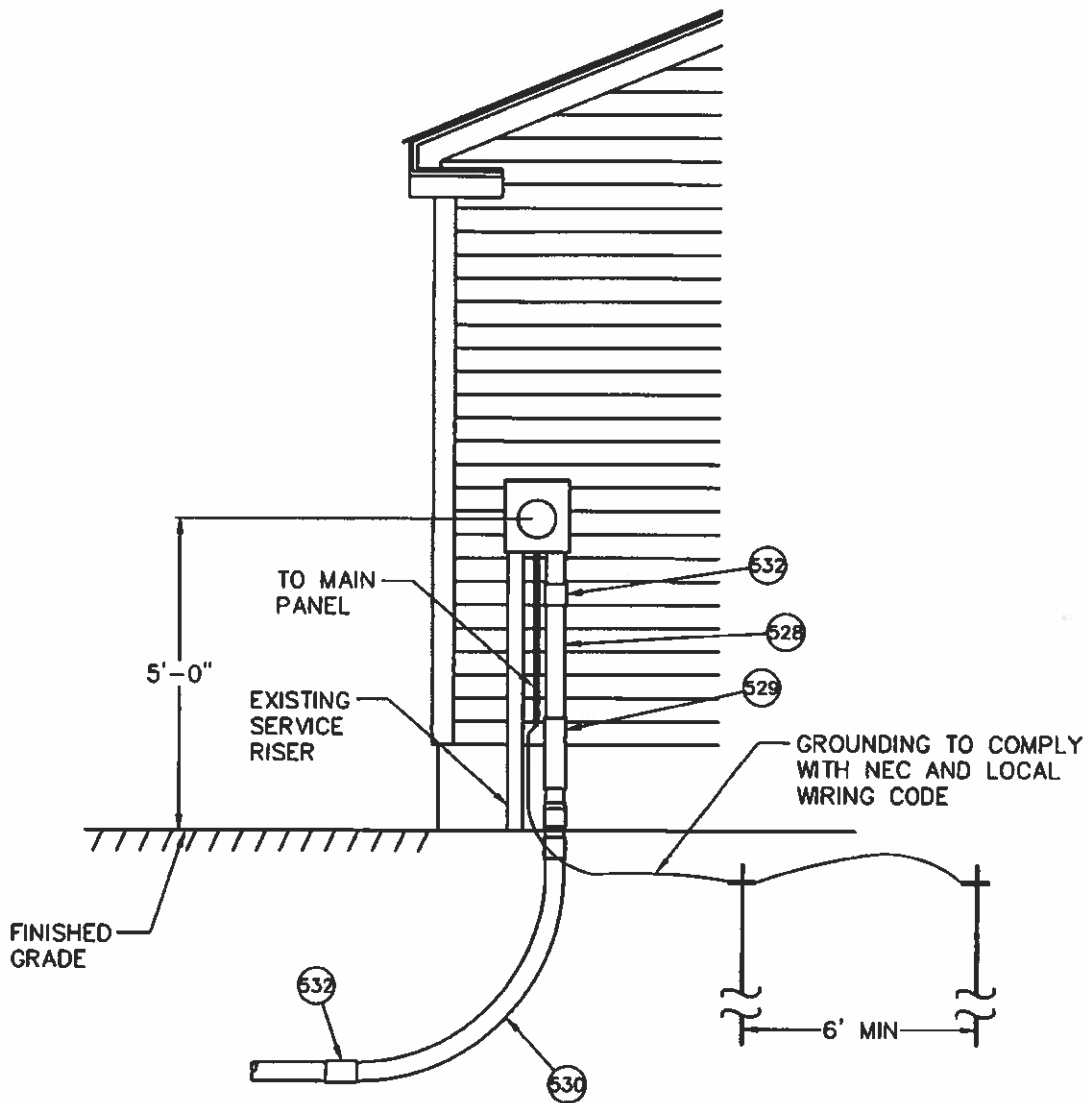
1. REFER TO CONDUIT USAGE CHART FOR CONDUIT REQUIREMENTS.

**MATERIAL LIST**

ITEM	QUANTITY	DESCRIPTION
528	AS REQUIRED	CONDUIT
529	AS REQUIRED	EXPANSION COUPLING
530	AS REQUIRED	CONDUIT SWEEP, 36" RADIUS
532	AS REQUIRED	COUPLING, PVC

**BURLINGTON ELECTRIC DEPT.**  
**DISTRIBUTION STANDARDS**  
**CONVERSION OF OVERHEAD**  
**SERVICE TO UNDERGROUND**  
**SERVICE - OPTION 2**

DATE: 01/28/13	DWG. NO.: 201202
DWN BY: RG	APP. BY:
SCALE: NONE	SHEET 2 OF 3



**NOTES**

1. REFER TO CONDUIT USAGE CHART FOR CONDUIT REQUIREMENTS.

**MATERIAL LIST**

ITEM	QUANTITY	DESCRIPTION
528	AS REQUIRED	CONDUIT
529	AS REQUIRED	EXPANSION COUPLING
530	AS REQUIRED	CONDUIT SWEEP, 36" RADIUS
532	AS REQUIRED	COUPLING, PVC

**BURLINGTON ELECTRIC DEPT.**

**DISTRIBUTION STANDARDS**

**REPLACEMENT OF EXISTING UNDERGROUND SERVICE**

DATE: 01/28/13

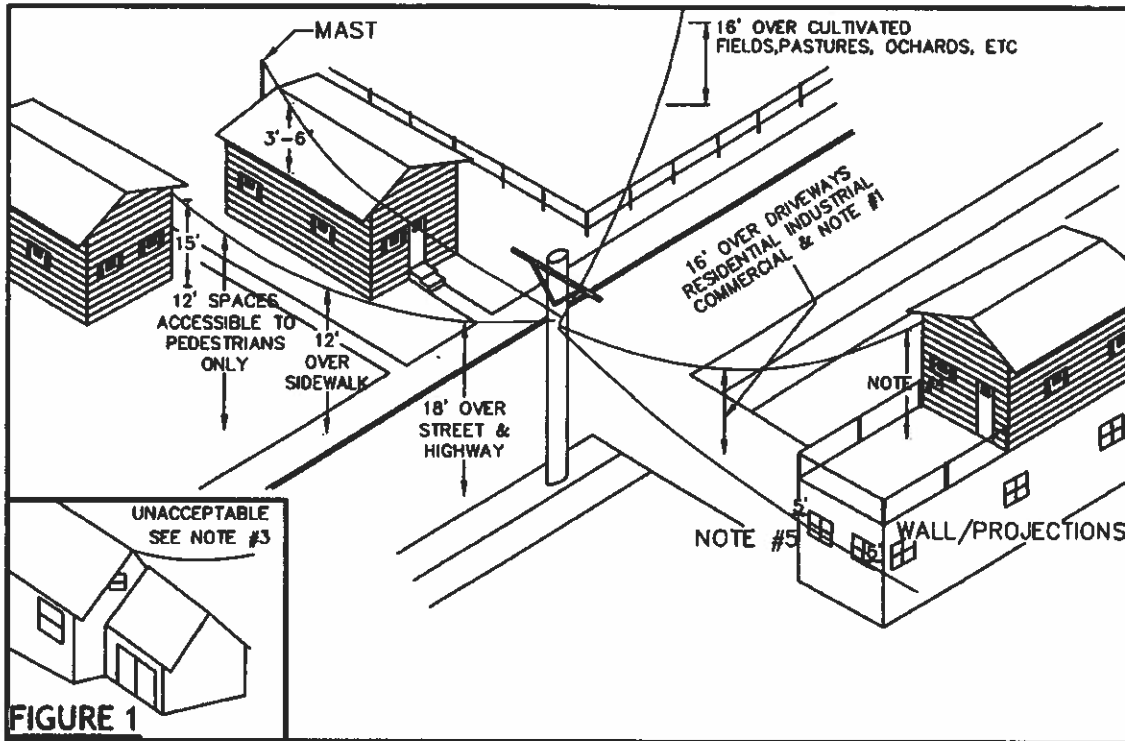
DWG. NO.: 201203

DWN BY: RG

APP. BY:

SCALE: NONE

SHEET 3 OF 3



### NOTES

1. THIS INCLUDES PARKING LOTS AND OTHER AREAS SUBJECT TO TRUCK TRAFFIC.
2. MAINTAIN 3'-6" VERTICAL AND HORIZONTAL CLEARANCES TO SIGNS, CHIMNEYS, BILLBOARDS, RADIO AND TELEVISION ANTENNAS, TRAFFIC SIGNALS, AND OTHER LINES WITHOUT BEING ATTACHED.
3. SERVICE ATTACHMENT LOCATED ABOVE BUILDING EXTENSION AS SHOWN IN FIGURE 1 IS NOT ACCEPTABLE BECAUSE THE SERVICE CONNECTIONS CANNOT BE DIRECTLY REACHED FROM A LADDER PLACED SECURELY ON THE GROUND.
4. THIS CLEARANCE APPLIES TO FLAT ROOFS, BALCONIES, AND AREAS RESTRICTED TO PEDESTRIANS ONLY OR TO VEHICLES NOT EXCEEDING 8' IN HEIGHT.
5. 3'-6" WHEN DISPLACED BY WIND.

**BURLINGTON ELECTRIC DEPT.**

**DISTRIBUTION STANDARDS**

**MINIMUM CLEARANCES FOR  
SERVICES 0 - 750 VOLTS**

DATE: 01/01/17

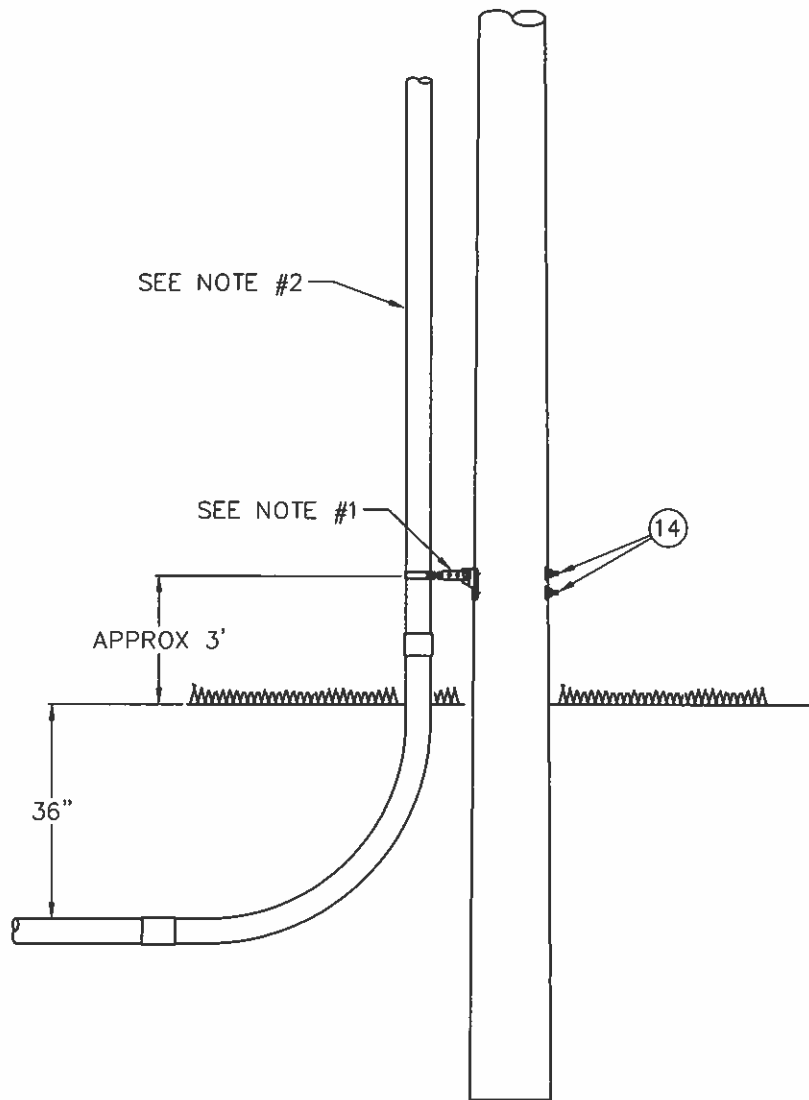
DWG. NO.: 040901

DWN BY: RG

APP. BY:

SCALE: NONE

SHEET 1 OF 1



### NOTES

1. BED TO ATTACH STANDOFF BRACKET ON POLE PRIOR TO CONDUIT RUN TO POLE.
2. CUSTOMER TO SUPPLY (1) 10' SECTION OF NEMA APPROVED SCH 80 PVC. CUSTOMER TO SUPPLY ALL SCH 40 PVC TO BE USED ABOVE 10'.
3. BED TO SUPPLY FROST SLEEVE, CONDULATOR, SUPPORT BRACKETS, AND STANDOFF BRACKETS.
4. BED SHALL BUILD RISER AND THEN ASSIST IN CABLE PULL.

**BURLINGTON ELECTRIC DEPT.**

**DISTRIBUTION STANDARDS**

**RISER POLE SWEEP**

DATE: 08/23/17

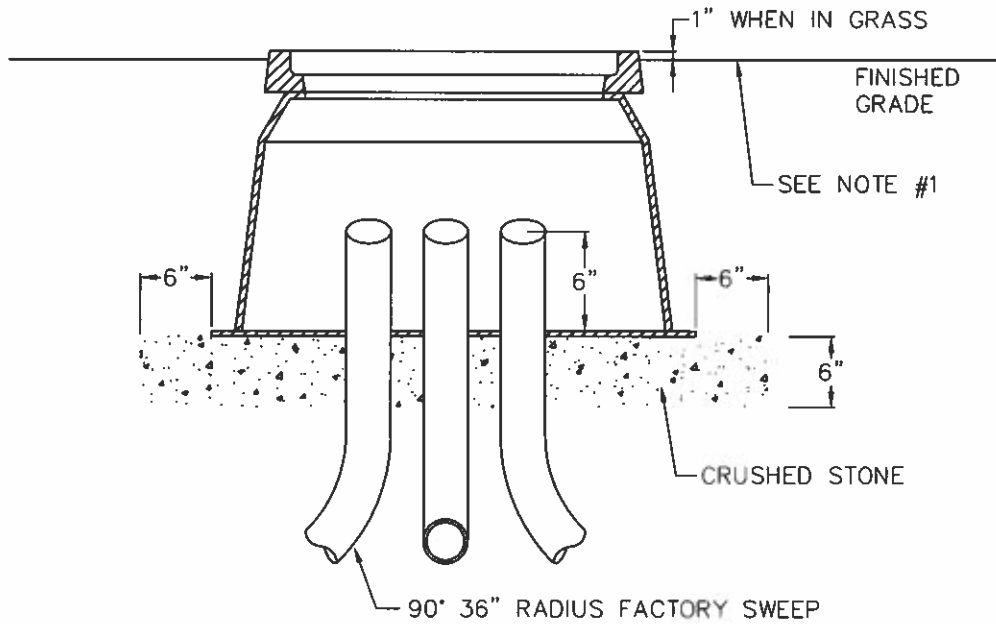
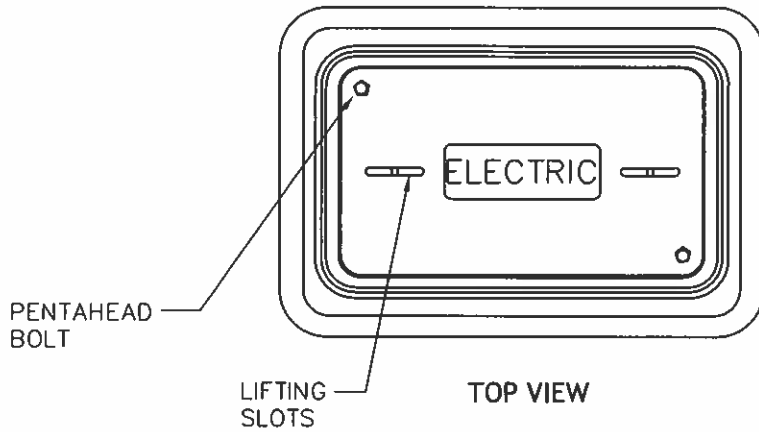
DWG. NO.: 160501

DWN BY: RG

APP. BY:

SCALE: NONE

SHEET 1 OF 1



**NOTE**

1. WHEN INSTALLED IN PAVEMENT OR SIDEWALKS, COVER SHALL BE FLUSH WITH FINISHED GRADE.

\* SEE SHEET 2 FOR SPECIFICATIONS

BURLINGTON ELECTRIC DEPT.	
DISTRIBUTION STANDARDS	
UNDERGROUND ENCLOSURES/HANDHOLES	
DATE: 07/01/19	DWG. NO.: 162501
DWN BY: RG	APP. BY:
SCALE: NONE	SHEET 1 OF 2

CONDUIT USAGE CHART

LOCATION	MINIMUM ACCEPTABLE CONDUIT
LAWNS (PRIMARY CONDUITS)	SCH 80 PVC, UL LISTED, NON-CONCRETE ENCASED OR SCH 40 PVC, UL LISTED, ENCASED IN CONCRETE
LAWNS (SECONDARY CONDUITS)	SCH 40 PVC, UL LISTED, NON-CONCRETE ENCASED
SIDEWALKS	SCH 80 PVC, UL LISTED, NON-CONCRETE ENCASED (OR EQUIVALENT STRENGTH USING DIRECTIONAL BORING) OR SCH 40 PVC, UL LISTED, ENCASED IN CONCRETE
DRIVEWAYS	SCH 80 PVC, UL LISTED, NON-CONCRETE ENCASED (OR EQUIVALENT STRENGTH USING DIRECTIONAL BORING) OR SCH 40 PVC, UL LISTED, ENCASED IN CONCRETE
PARKING LOT (PRIMARY CONDUITS)	SCH 40 PVC, UL LISTED, ENCASED IN CONCRETE
PARKING LOT (SECONDARY CONDUITS)	SCH 80 PVC, UL LISTED, NON-CONCRETE ENCASED (OR EQUIVALENT STRENGTH USING DIRECTIONAL BORING). PLACED Laterally (NON-STACKED) OR SCH 40, UL LISTED, ENCASED IN CONCRETE
PAVED AND NON-PAVED AREAS SUBJECT TO VEHICULAR TRAFFIC	SCH 40 PVC, UL LISTED, ENCASED IN CONCRETE
RISERS, FIRST 10' ABOVE GRADE	SCH 80 PVC, UL LISTED
RISERS, AFTER FIRST 10' ABOVE GRADE	SCH 40 PVC, UL LISTED

BURLINGTON ELECTRIC DEPT.

DISTRIBUTION STANDARDS

## CONDUIT USAGE CHART

DATE: 09/05/19

DWG. NO.: 160301

DWN BY: RG

APP. BY:

SCALE: NONE

SHEET 1 OF 2

MINIMUM CONDUIT SIZE CHART				
CABLE SIZE, TYPE	CONDUIT SIZE			
	2 1/2"	4"	5"	6"
1-1/0 PRIMARY, 15kV	X			
3-1/0 PRIMARY, 15kV		X		
3-350 PRIMARY, 15kV + 1-4/0 CU NEUTRAL		X		
1-750 MCM PRIMARY, 15kV + 1-1/0 CU NEUTRAL		X		
1-1000 MCM PRIMARY, 15kV + 1-1/0 CU NEUTRAL		X		
1/0 TRIPLEX SERVICE	X			
1/0 TRIPLEX SECONDARY	X	X*		
1/0 QUADRUPLIX SERVICE	X			
4/0 TRIPLEX SERVICE	X**	X		
4/0 TRIPLEX SECONDARY		X		
4/0 QUADRUPLIX SECONDARY OR SERVICE		X		
350 TRIPLEX SERVICE		X		
350 TRIPLEX SECONDARY		X		
350 QUADRUPLIX SECONDARY OR SERVICE		X		
500 TRIPLEX SECONDARY		X		
3-750 MCM PRIMARY 15kV OR 35kV + 1-4/0 CU NEUTRAL				X
3-1000 MCM PRIMARY 15kV + 1-4/0 CU NEUTRAL				X

### NOTES

1. 2" CONDUIT MAY BE USED FOR SERVICES IF EXISTING METER CHANNELS WILL NOT ACCEPT LARGER CONDUIT.
- \* USE IF SECONDARY RUN MAY BE UPGRADED IN THE FUTURE.
  - \*\* ONLY FOR USE IN EXISTING CONDUIT RUNS WITH MINIMAL BENDS.

BURLINGTON ELECTRIC DEPT.

DISTRIBUTION STANDARDS

CONDUIT SIZE CHART

DATE: 11/18/19

DWG. NO.: 160302

DWN BY: RG

APP. BY:

SCALE: NONE

SHEET 2 OF 2

**SUPPLY CABLE CLEARANCES (MINIMUM):**

1. THE CONDUIT SYSTEM SHALL MAINTAIN A MINIMUM CLEARANCE FROM COMMUNICATION CABLES OF 12" IN WELL TAMPED EARTH, 4" OF MASONRY AND 3" OF CONCRETE.
2. THE CONDUIT SYSTEM SHALL MAINTAIN A MINIMUM CLEARANCE FROM WATER, GAS, AND SEWER LINES OF 5'. WHERE THIS IS NOT FEASIBLE, A LESSER CLEARANCE MAY BE AUTHORIZED WITH WRITTEN APPROVAL OF ALL INVOLVED PARTIES. THE REQUESTING PARTY SHALL SUBMIT APPROVALS TO BED.
3. CONDUITS CROSSING WATER, SEWER, OR GAS LINES WILL BE INSTALLED AT RIGHT ANGLES AND SO AS NOT TO PLACE ANY STRAIN ON THESE SERVICES, THE CONDUITS SHALL BE ENCASED IN CONCRETE.
4. 5' FROM SWIMMING POOLS OR ASSOCIATED EQUIPMENT.
5. THE CONDUIT SYSTEM SHALL MAINTAIN A MINIMUM CLEARANCE FROM GASOLINE OR PROPANE EQUIPMENT OF 12'. THE CONDUITS WITHIN 20' OF GASOLINE OR PROPANE EQUIPMENT SHALL BE INSTALLED IN RIGID METAL OR ENCASED IN CONCRETE.
6. 5' VERTICAL CLEARANCE FROM TOP OF RAIL WHEN INSTALLED LONGITUDINALLY UNDER RAILROAD BED (THIS CONSTRUCTION SHOULD BE AVOIDED WHEN POSSIBLE).

**PADMOUNT TRANSFORMER CLEARANCES (MINIMUM):**

1. 10' FROM ANY BUILDING. WHEN NECESSARY, THIS MAY BE REDUCED TO 3' (MEASURED FROM PAD) PROVIDING ANY WALL WITHIN 10' IS AN APPROVED FIRE WALL AND ANY WINDOWS OR DOORS ARE MINIMUM 10' FROM TRANSFORMER.
2. PADMOUNT EQUIPMENT SHALL BE LOCATED WITHIN 10'-15' OF A SUITABLE WAY PROVIDING FULL ACCESS TO UTILITY VEHICLES FOR MAINTENANCE. TRANSFORMERS LOCATED WITHIN 10' OF PUBLIC VEHICLE ACCESS SHALL BE PROVIDED PROTECTION FROM VEHICULAR DAMAGE.

**BURLINGTON ELECTRIC DEPT.****DISTRIBUTION STANDARDS****UNDERGROUND  
CLEARANCES**

DATE: 01/01/17

DWG. NO.: 041001

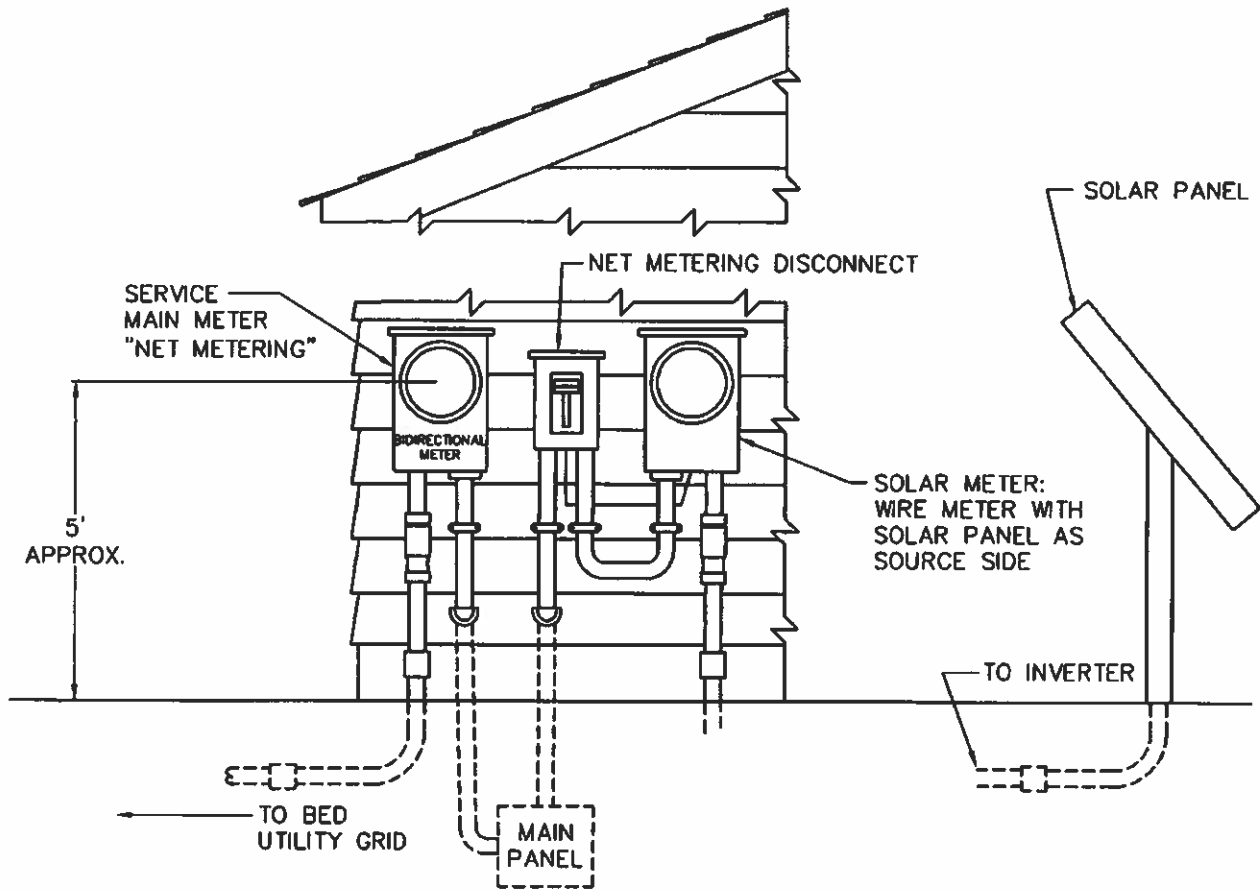
DWN BY: RG

APP. BY:

SCALE: NONE

SHEET 1 OF 1

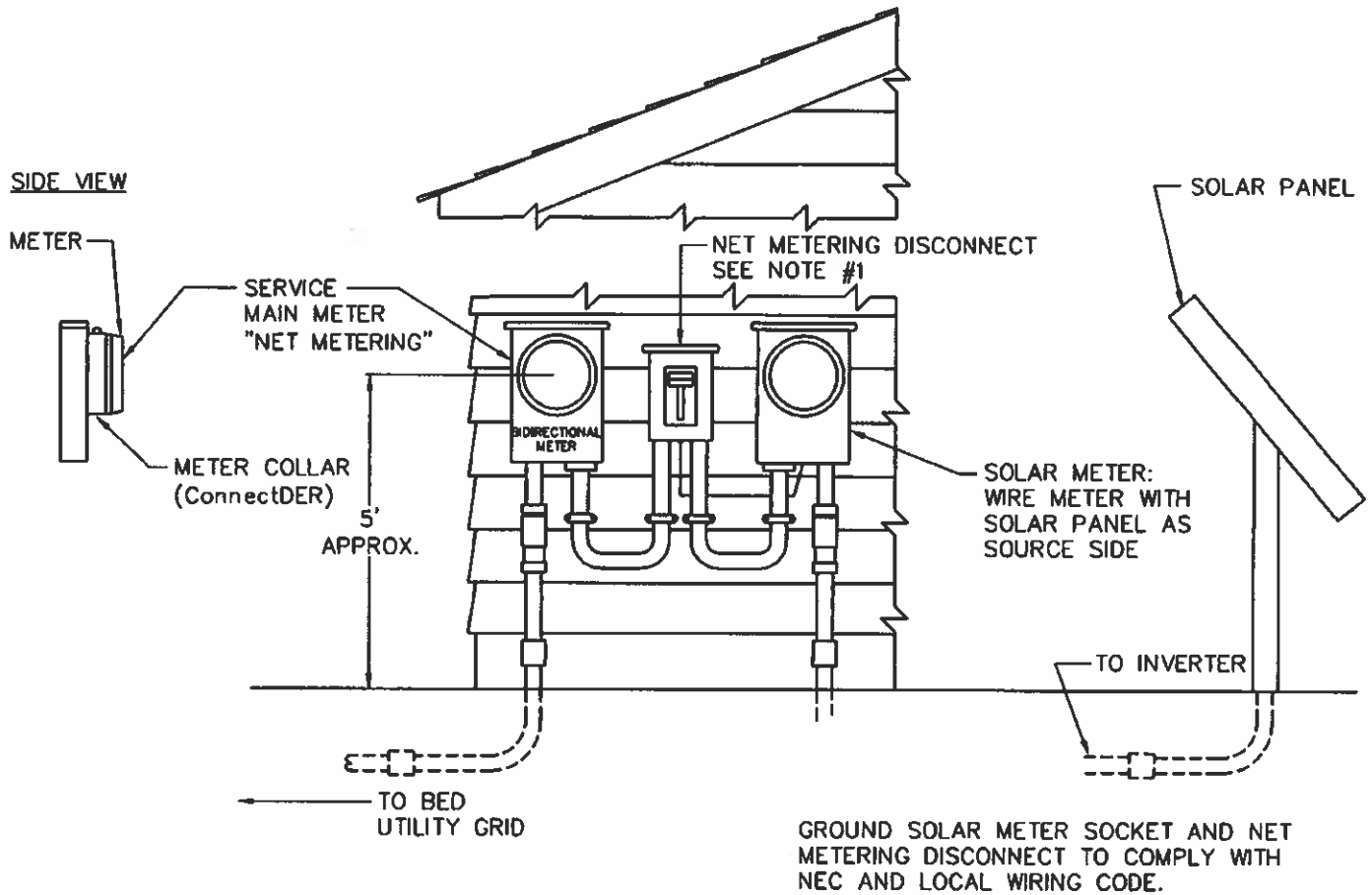
THIS SPECIFICATION SHOWS AN UNDERGROUND SERVICE WITH THE SOLAR METER LOCATED NEXT TO THE MAIN SERVICE METER. OTHER CONFIGURATIONS ARE POSSIBLE, BUT THE SOLAR METER MUST BE ELECTRICALLY CONNECTED ON THE UTILITY GRID SIDE OF THE INVERTER WITH THE SOLAR PANEL AS ITS SOURCE. PLEASE CALL BURLINGTON ELECTRIC (802) 658-0300 WITH QUESTIONS.



GROUND SOLAR METER SOCKET AND NET METERING DISCONNECT TO COMPLY WITH NEC AND LOCAL WIRING CODE.

<b>BURLINGTON ELECTRIC DEPT.</b>	
<b>DISTRIBUTION STANDARDS</b>	
<b>STANDARD NET METERING</b>	
DATE: 05/26/16	DWG. NO.: 201301
DWN BY: RG	APP. BY:
SCALE: NONE	SHEET 1 OF 2

THIS SPECIFICATION SHOWS AN UNDERGROUND SERVICE WITH THE SOLAR METER LOCATED NEXT TO THE MAIN SERVICE METER. OTHER CONFIGURATIONS ARE POSSIBLE, BUT THE SOLAR METER MUST BE ELECTRICALLY CONNECTED ON THE UTILITY GRID SIDE OF THE INVERTER WITH THE SOLAR PANEL AS ITS SOURCE. PLEASE CALL BURLINGTON ELECTRIC (802) 658-0300 WITH QUESTIONS.



1. FOR SERVICES USING A METER COLLAR TO BYPASS FEED DIRECTLY TO MAIN PANEL, A SEPARATE NET METERING DISCONNECT IS STILL REQUIRED.
2. THIS SPECIFICATION ALLOWS CUSTOMERS TO INSTALL A METER COLLAR. BECAUSE THE METER COLLAR (ConnectDER OR SIMILAR DEVICE) IS NOT EQUIPMENT PROVIDED BY BED, BED HAS NO RESPONSIBILITY FOR MAINTAINING, REPAIRING, OR SOLVING ISSUES WITH OR CAUSED BY THE DEVICE AND IS NOT LIABLE FOR ANY DAMAGE TO THE DEVICE. FURTHER, BED PERSONNEL WILL NOT HANDLE THE ConnectDER OR SIMILAR DEVICE WHEN MAKING A SERVICE CALL. IF BED PERSONNEL MUST ACCESS THE METER CHANNEL, AT THE CUSTOMER'S REQUEST OR BED'S, IT IS THE CUSTOMER'S SOLE FINANCIAL RESPONSIBILITY TO HIRE A LICENSED ELECTRICIAN TO REMOVE THE METER COLLAR (ConnectDER OR SIMILAR DEVICE) SO THAT BED PERSONNEL CAN OBTAIN ACCESS TO THE METER CHANNEL, AS WELL AS TO RE-INSTALL THE ConnectDER OR SIMILAR DEVICE WHEN BED'S WORK IS COMPLETE. IF THE DEVICE IS NOT REMOVED WHEN BED ARRIVES, BED MAY NOT BE ABLE TO COMPLETE THE SERVICE CALL AND SERVICE MAY BE DELAYED.

**BURLINGTON ELECTRIC DEPT.**

**DISTRIBUTION STANDARDS**

**NET METERING WITH  
METER COLLAR**

DATE: 05/26/16

DWG. NO.: 201302

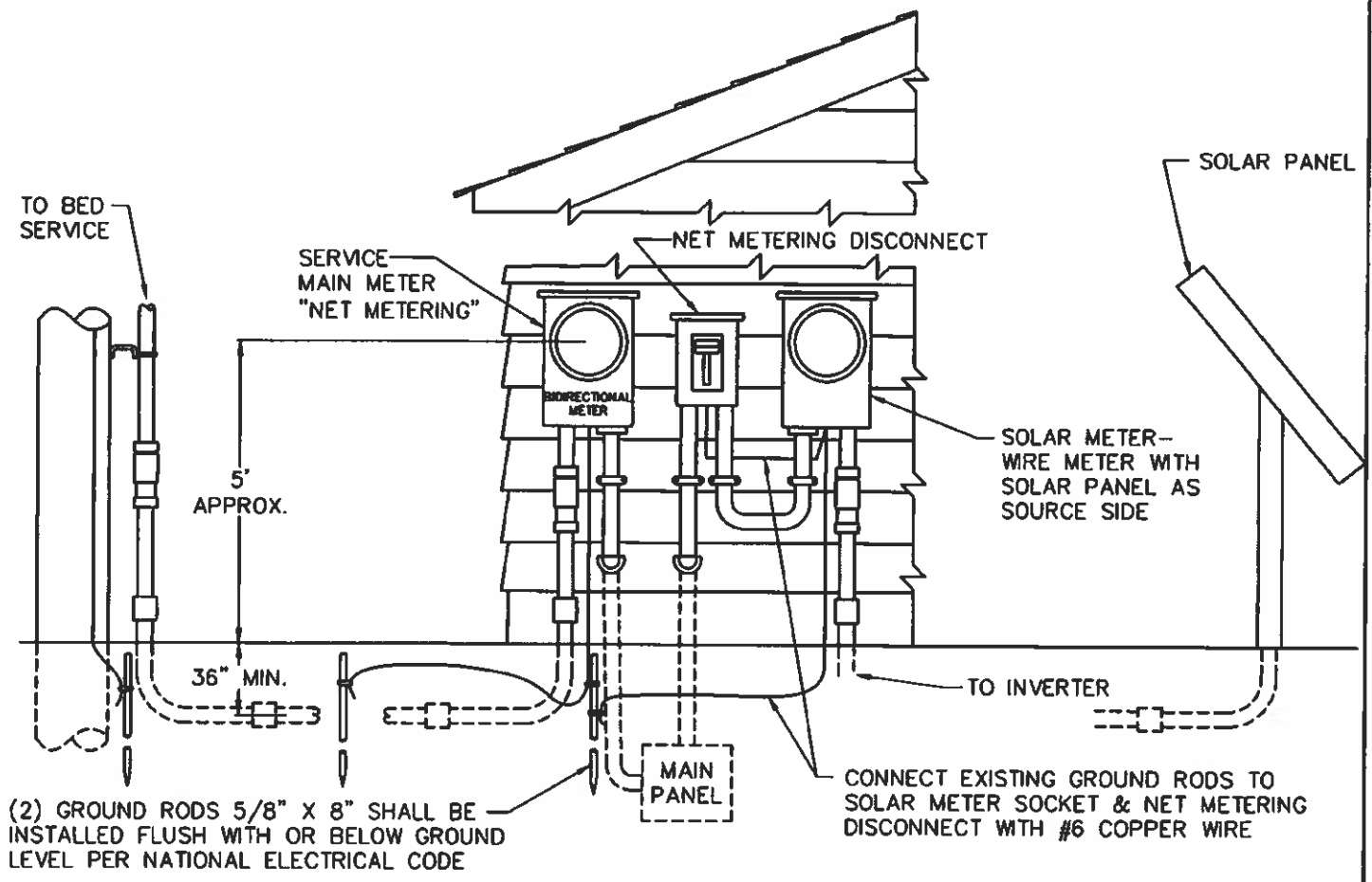
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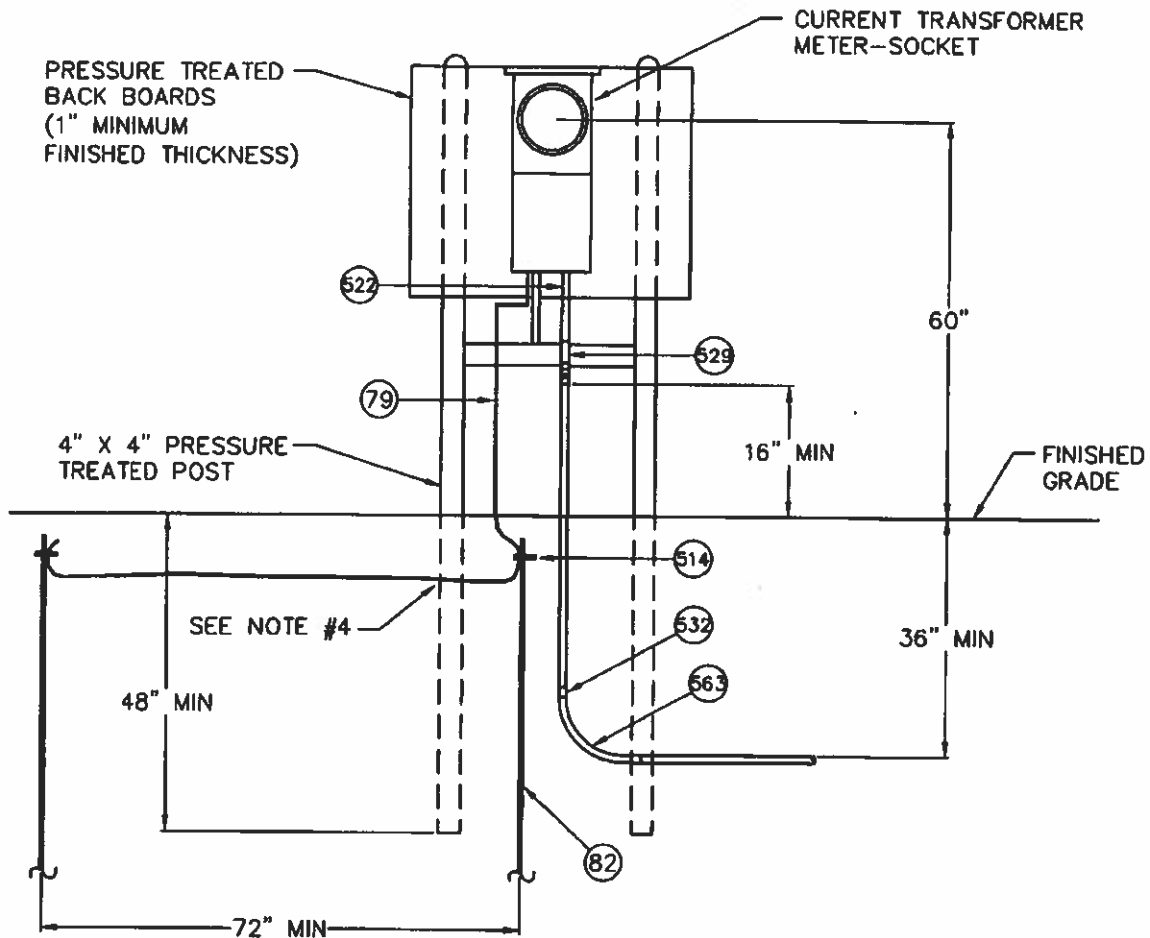
SCALE: NONE

SHEET 2 OF 2

THIS SPECIFICATION SHOWS AN UNDERGROUND SERVICE WITH THE SOLAR METER LOCATED NEXT TO THE MAIN SERVICE METER. OTHER CONFIGURATIONS ARE POSSIBLE, BUT THE SOLAR METER MUST BE ELECTRICALLY CONNECTED ON THE UTILITY GRID SIDE OF THE INVERTER WITH THE SOLAR PANEL AS ITS SOURCE. PLEASE CALL BURLINGTON ELECTRIC (802) 658-0300 WITH QUESTIONS.



<b>BURLINGTON ELECTRIC DEPT.</b>	
<b>DISTRIBUTION STANDARDS</b>	
<b>NET METERING RIDER</b>	
DATE: 11/22/11	DWG. NO.: 233301
DWN BY: RG	APP. BY:
SCALE: NONE	SHEET 1 OF 1



**NOTES**

1. LOCATION OF PEDESTAL WILL BE DESIGNATED BY BED.
2. PEDESTAL SHALL BE LOCATED A MINIMUM OF 10' AND A MAXIMUM OF 25' FROM PAD MOUNTED TRANSFORMER.
3. 4" X 4" PRESSURE TREATED WOOD POSTS SHALL BE RATED FOR SOIL CONTACT.
4. GROUND TO COMPLY WITH NEC CODE AND BED STANDARDS.

<b>BURLINGTON ELECTRIC DEPT.</b>	
<b>DISTRIBUTION STANDARDS</b>	
<b>TYPICAL METER PEDESTAL FOR CURRENT TRANSFORMER METER</b>	
DATE: 06/10/24	DWG. NO.: 233201
DWN BY: RG	APP. BY:
SCALE: NONE	SHEET 1 OF 5

2332

MATERIAL LIST

Item	Quantity	Description	Stock Code		
79	AS REQUIRED	#2 AWG COPPER, 7 STRAND, 600 V	ECW	SCC	00150
82	2	GROUND ROD	GRD	ROD	00010
514	2	GROUND ROD CONNECTOR	GRD	CON	00010
522	AS REQUIRED	1 1/4" SCH 40 PVC CONDUIT	DUC	PVC	00060
529	1	EXPANSION COUPLING (SELECT SIZE)	DUC	PFS	-
532	2	COUPLING, PVC	DUC	PCP	-
563	1	CONDUIT SWEEP, STANDARD RADIUS	DUC	PEL	-

**BURLINGTON ELECTRIC DEPT.**

**DISTRIBUTION STANDARDS**

**TYPICAL METER PEDES TAL FOR  
CURRENT TRANSFORMER METER**

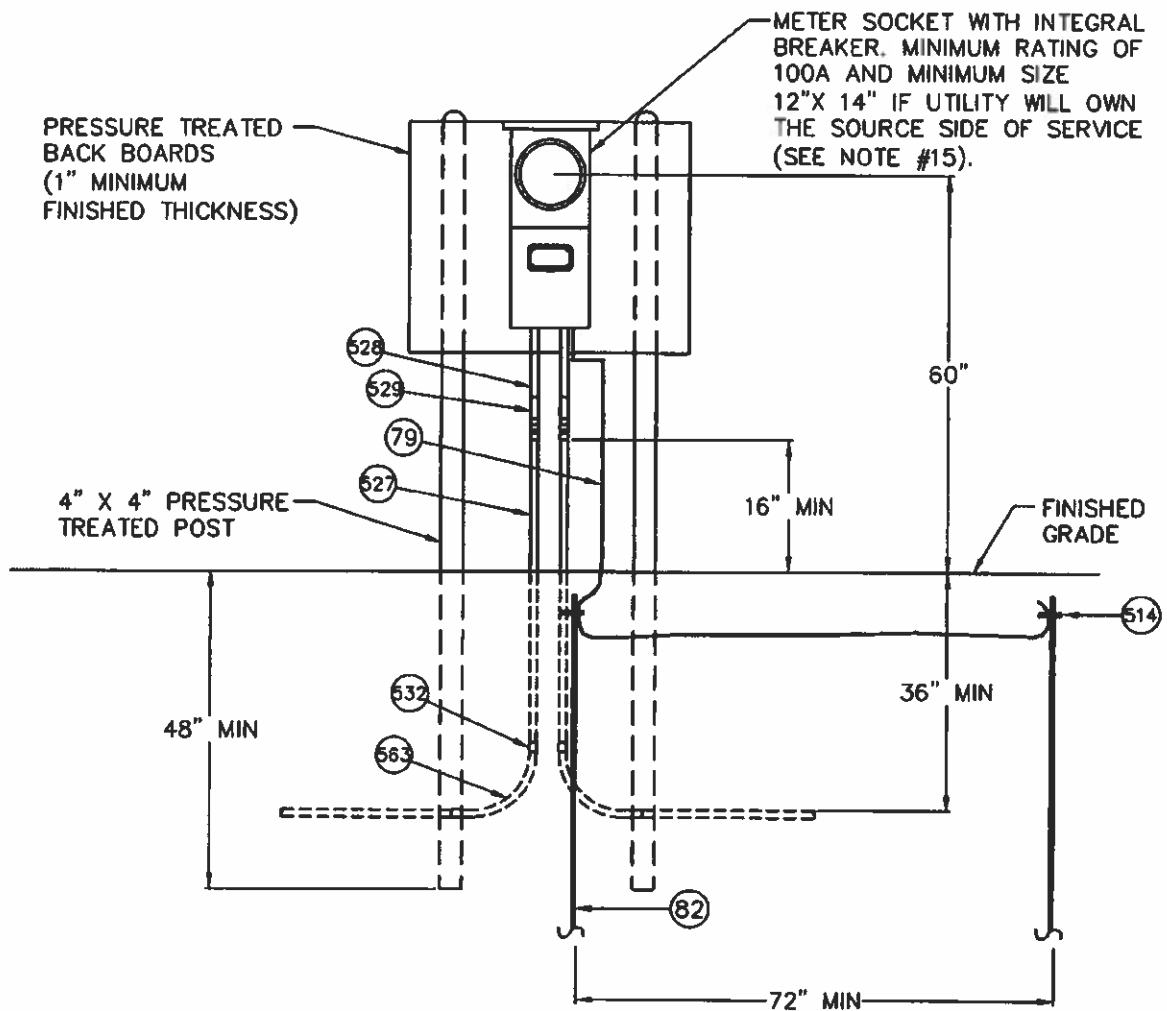
DATE: 06/07/24 DWG. NO.: 233202

DWN BY: RG APP. BY:

SCALE: NONE SHEET 2 OF 5

RESIDENTIAL 120/240 VOLT SERVICES ONLY			
RATING	CABLE LENGTH*	TRIPLEX SIZE	CONDUIT
100A	0-270'	1/0	2.5"
	271'-410'	4/0	2.5"
150A	411'-650'	350 MCM	3"
	176'-275'	4/0	2.5"
200A	276'-435'	350 MCM	3"
	0-205'	4/0	2.5"
300A	206'-325'	350 MCM	3"
	0-220'	350 MCM	3"

\*CABLE LENGTH IS THE TOTAL OF TRENCH AND RISER LENGTHS. THIS CHART DOES NOT INDICATE THAT THE CABLE CAN BE PULLED INTO CONDUITS OF THESE LENGTHS. PULLING TENSION CALCULATIONS ARE NECESSARY TO MAKE THAT DETERMINATION.



**NOTES**

1. LOCATION OF PEDESTAL WILL BE DESIGNATED BY BED.
2. 4" X 4" PRESSURE TREATED WOOD POSTS SHALL BE RATED FOR SOIL CONTACT.

BURLINGTON ELECTRIC DEPT.	
DISTRIBUTION STANDARDS	
TYPICAL METER PEDESTAL SELF-CONTAINED METER	
DATE: 06/10/24	DWG. NO.: 233203
DWN BY: RG	APP. BY:
SCALE: NONE	SHEET 3 OF 5

2332

**MATERIAL LIST**

Item	Quantity	Description	Stock Code		
79	AS REQUIRED	#2 AWG COPPER, 7 STRAND, 600 V	ECW	SCC	00150
82	2	GROUND ROD	GRD	ROD	00010
514	2	GROUND ROD CONNECTOR	GRD	CON	00010
527	AS REQUIRED	CONDUIT, SCHEDULE 40 (SELECT SIZE)	DUC	PVC	-
528	AS REQUIRED	CONDUIT, SCHEDULE 80 (SELECT SIZE)	DUC	PVC	-
529	2	EXPANSION COUPLING (SELECT SIZE)	DUC	PFS	-
532	4	COUPLING, PVC	DUC	PCP	-
563	2	CONDUIT SWEEP, STANDARD RADIUS	DUC	PEL	-

**BURLINGTON ELECTRIC DEPT.**

**DISTRIBUTION STANDARDS**

**TYPICAL METER PEDESTAL SELF-  
CONTAINED METER**

DATE: 06/07/24 DWG. NO.: 233204

DWN BY: RG APP. BY:

SCALE: NONE SHEET 4 OF 5

**NOTES**

1. ALL WIRING AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE (NEC) AND TO ANY APPLICABLE LOCAL CODES. WHERE CONFLICT EXISTS THE MORE STRINGENT CODE WILL APPLY. FOR CUSTOMER OWNED EQUIPMENT, ANY REQUIREMENTS IN EXCESS OF CODE SPECIFIED MINIMUMS, ARE RECOMMENDED NOT REQUIRED.
2. THIS SPECIFICATION COVERS RESIDENTIAL SERVICES. COMMERCIAL SERVICE EQUIPMENT IS UNDER THE JURISDICTION OF THE ELECTRICAL INSPECTOR. THE CABLE SIZES SHOWN IN THE CHART MAY NOT APPLY TO COMMERCIAL SERVICES.
3. THE LOCATION OF THE METER PEDESTAL AND THE METER SOCKET WILL BE DESIGNATED BY THE UTILITY REPRESENTATIVE. THERE SHALL BE NO MORE THAN (3) 90° BENDS IN THE CONDUIT, INCLUDING ONE AT THE POLE/PAD AND ANOTHER AT THE METER PEDESTAL. ANY RELOCATIONS SHALL BE APPROVED BY A UTILITY REPRESENTATIVE.
4. ALL GAS VALVES SHALL BE A MINIMUM OF 10' FROM ELECTRIC METER EQUIPMENT. FOR CLEARANCES LESS THAN 10', REFER TO NFPA 58.
5. THE CUSTOMER SHALL SUPPLY AND INSTALL THE PEDESTAL, CONDUIT, METER SOCKET/DISCONNECT AND GROUNDING. A PULL ROPE HAVING A MINIMUM PULL STRENGTH OF 500 LBS IS REQUIRED TO BE INSTALLED IN THE CONDUIT BY THE CUSTOMER IF THE UTILITY SUPPLIES THE CABLE. IF THE CUSTOMER SUPPLIES THE CABLE, IT SHALL BE INSTALLED IN THE CONDUIT AND CONNECTED TO THE METER SOCKET.
6. THE TRENCH SHOULD BE DUG A MINIMUM OF 18"W AND 36"D TO THE TOP OF THE CONDUIT.
7. DEPTHS SHALLOWER THAN 36" MAY BE ALLOWED WHERE OBSTRUCTIONS SUCH AS LEDGES ARE ENCOUNTERED. ANY PORTION OF CONDUIT SHALLOWER THAN 24" SHALL BE COVERED BY A MINIMUM 2" CONCRETE CAP. SEE THE UTILITY FOR ADDITIONAL REQUIREMENTS FOR CONDUIT BURIED NEAR UNDERGROUND FACILITIES, UNDER DRIVEWAYS OR ROADWAYS, OR FOR DEPTHS SHALLOWER THAN 12".
8. A MARKER TAPE SHALL BE INSTALLED, ABOVE THE CONDUIT, 12" BELOW GRADE. TYPE USE CABLE SHALL BE LISTED OR MARKED SUNLIGHT RESISTANT.
9. ANY STEEL CONDUIT WITHIN 18" OF THE SURFACE SHALL BE BONDED. STEEL CONDUIT IS NOT REQUIRED.
10. THE CHART SHOWS THE ACCEPTABLE TOTAL CABLE LENGTH FOR GIVEN SERVICE AMP RATINGS AND CONDUCTORS. THE CHART IS BASED ON A MAXIMUM 3% VOLTAGE DROP IN AN ALUMINUM UNDERGROUND SERVICE CABLE FOR A 120/240V SERVICE. FOR OTHER VOLTAGES, CABLES OR MULTIPLE CABLES, CONSULT YOUR LOCAL UTILITY.
11. RESIDENTIAL METER SOCKETS 200A AND LARGER, AND ALL COMMERCIAL METER SOCKETS SHALL HAVE A MANUAL BYPASS. THE METER SOCKET SHALL HAVE A SEPARATE GROUNDING ELECTRODE CONDUCTOR CONNECTOR. THE CONNECTOR SHALL BE APPROPRIATELY CONNECTED TO THE SERVICE NEUTRAL BUS. THE SERVICE NEUTRAL, AND NOT THE GROUNDING ELECTRODE CONDUCTOR, SHALL EXTEND FROM THE METER SOCKET TO THE MAIN DISCONNECT IN THE BUILDING. AN EXCEPTION WOULD OCCUR IF A BREAKER, UNDER THE METER SOCKET, IS THE MAIN DISCONNECT FOR A MOBILE HOME.
12. A SIDE BUS BAR METER SOCKET AND 3" CONDUIT ARE REQUIRED IF 350 MCM CABLE OR A DOUBLE RUN OF CABLE IS USED.
13. THE SERVICE DISCONNECTING MEANS SHALL BE INSTALLED AT A READILY ACCESSIBLE LOCATION, EITHER OUTSIDE OF A BUILDING OR STRUCTURE, OR INSIDE A BUILDING OR STRUCTURE NEAREST THE POINT OF ENTRANCE OF THE SERVICE CONDUCTORS, NOT TO EXCEED 10 FEET OF CONDUCTOR LENGTH FROM THE POINT OF ENTRANCE OR AS DIRECTED BY CITY ELECTRICAL INSPECTOR.
14. A DISCONNECT IS REQUIRED TO BE WITHIN 30' OF A MOBILE HOME. 4 WIRE SERVICES ARE REQUIRED FROM THE DISCONNECT TO THE SUBPANEL (IN THE MOBILE HOME). THE BREAKER IN THE DISCONNECT SHALL BE SIZED TO PROTECT THE FEEDER TO THE SUBPANEL. MODULAR HOMES, RATED BY THE MANUFACTURER "FOR PERMANENT FOUNDATION", MAY HAVE THE METER SOCKET MOUNTED DIRECTLY ON THE STRUCTURE.
15. THE GROUNDING ELECTRODE CONDUCTOR, FROM THE MAIN DISCONNECT TO A DRIVEN GROUND, SHALL BE A MINIMUM OF #6 COPPER. THE CONDUCTOR SHALL BE ADEQUATELY PROTECTED. THE DRIVEN GROUNDS SHOWN SHALL BE A MINIMUM OF 5/8"Ø AND 8"L.
16. THE UTILITY RECOMMENDS THAT THE CUSTOMER INSTALL A INTEGRAL BREAKER/METER SOCKET. THE PURPOSE OF THE BREAKER IS TO ALLOW THE CUSTOMER TO MAINTAIN THEIR UNDERGROUND SERVICE WITHOUT AN EXPENSIVE LINE CREW VISIT. CHECK WITH BED TO DETERMINE WHETHER THE BREAKER IS REQUIRED.
17. WHERE SUBJECT TO STATE OR LOCAL ELECTRICAL INSPECTION, SUCH INSPECTION MUST BE MADE PRIOR TO ENERGIZING.

**BURLINGTON ELECTRIC DEPT.****DISTRIBUTION STANDARDS****TYPICAL METER  
PEDESTAL NOTES**

DATE: 06/10/24

DWG. NO.: 233205

DWN BY: RG

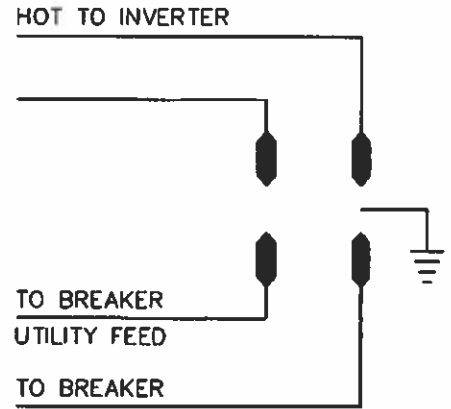
APP. BY:

SCALE: NONE

SHEET 5 OF 5

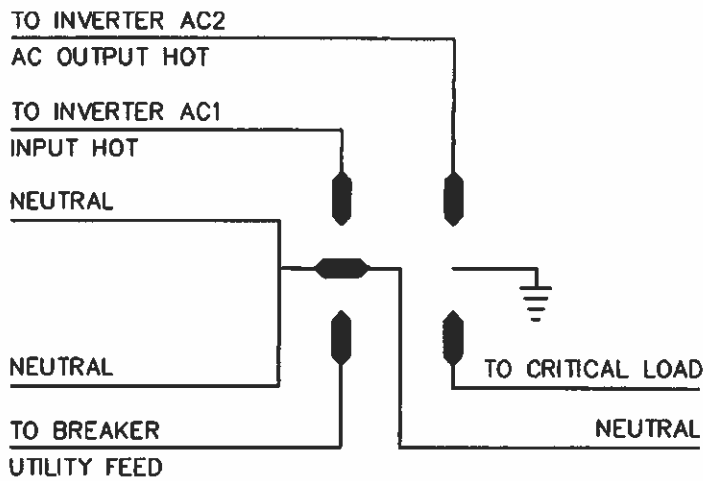
2334

240V INVERTER  
3 WIRE SOCKET



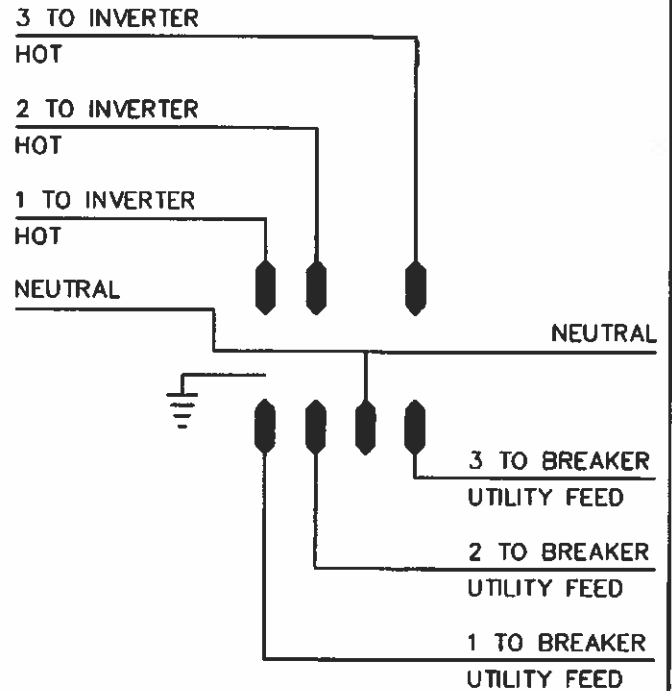
NO NEUTRAL REQUIRED

120V INVERTER / BATTERY BACKUP  
FORM 125 - 5 TERM SOCKET



IN POWER OUTAGE, AC1 IS DISCONNECTED BY ELECTRONIC BREAKER AND UTILITY IS ISOLATED FROM GENERATION. DISPLAY ON METER IS NOW OFF AND NO GENERATION IS METERED.

120/208V  
3 PHASE  
7 TERM SOCKET



THE FOLOWING CONDITIONS APPLY:

1. ALL SOCKET LOCATIONS OUTSIDE UNLESS INSIDE MAIN METER ROOM.
2. ALL GROUNDING COMPLETELY VISABLE AT SOCKET.
3. GROUND TO GROUND ROD IN ISOLATED LOCATIONS.
4. GROUND TO SYSTEM GROUND NEAR NET METER.
5. NEUTRAL WIRES ISOLATED FROM SOCKET AND GROUND.
6. AC OR DC BREAKER BY SOCKET.
7. ConnectDER DEVICES WILL ONLY BE ALLOWED ON METER SOCKET 200A OR LESS.

**BURLINGTON ELECTRIC DEPT.**

**DISTRIBUTION STANDARDS**

**NET METERING RIDER  
METER CONNECTIONS**

DATE: 06/04/24

DWG. NO.: 233401

DWN BY: RG

APP. BY:

SCALE: NONE

SHEET 1 OF 1