



POLICIES & STANDARDS

Table of Contents

| | |
|--|----|
| Padmount Transformer Foundation Specs | 2 |
| Padmount Transformer Building Clearance Standard | 16 |
| Labeling Multiple Meter Enclosures | 19 |
| Modular Metering Installation (2, 4, and 6 Pre-assembled) | 20 |
| Modular Metering Installation (Large, Single-phase, Pre-assembled) | 21 |
| Self-contained 320 Ampere Meter Base | 22 |
| Renewable Energy Interconnection Installation | 23 |
| Devices Installed Between Meter and Meter Socket | 24 |
| Meter Base Information | 25 |

City of Statesville Electric Utilities

3-Phase Pad-mount Transformer Concrete Foundation Specifications

November 2020



Contacts:

For questions regarding this specification please contact:

Engineering Services Supervisor: (704) 761-2388

For questions regarding metering applications of this specification please contact:

Technical Services Supervisor: (704) 832-3845

A project coordinator will be assigned to the job at the beginning of the project:

Electrical Engineer: (704) 761-2372 or Engineering Services Supervisor

Flat Pad and Pit Pad Application and Construction

This information is intended to provide direction to ensure that the proper dimensions are used for the concrete transformer foundation. The City of Statesville has approved two sizes and two types of concrete pads for pad-mounted transformers. They are the “Small” and “Large” sizes of the Pit Pad and the Flat Pad.

A Pit Pad is preferred for all 3-phase pad-mount installations. However, where there are 3 or less secondary conductors per phase, and the conductors are no larger than 400 MCM, a Flat Pad may be considered. The City of Statesville’s project coordinator will make the final decision whether it is permissible to use a Flat Pad. If the customer is installing more than ten (10), 600 MCM or smaller conductors per phase, or more than eight (8) conductors per phase that are larger than 600 MCM, additional arrangements will be needed. Please contact the Electric Utilities Department.

Generally, the “Small” Pad is used for transformers rated 300 KVA and below, and the “Large” Pad is used for transformers rated 500 KVA and above. A “Large” Pad should be used where the number of customer conduits/conductors exceeds the window opening restrictions of the ‘Small’ Pad, and when load growth and/or a transformer change-out to a larger size is anticipated.

Customer Responsibilities

The customer shall bear all costs for the pad. The customer may choose to construct the transformer pad on site or purchase a prefabricated unit from a manufacturer approved by the City. In either case, the customer is responsible for assuring the pad is manufactured to the requirements provided in the specification.

Listed below are the instructions for installing a transformer pad.

1. Customer is to contact The City of Statesville Electric Utility to inspect pad forms and dimensions prior to concrete being poured (if on site pour option is chosen).
2. Customer shall supply the concrete mix (as shown in the Concrete Mix Specifications, see page 2), welded wire fabric, #4 reinforcing bars, and shall pour the pad.
3. The dimensions shall be in accordance with the specifications (Large or Small Pad) based on the transformer KVA size. The thickness of all walls on the “pit pad” shall be a minimum of 5 ½” thick. The transformer KVA Size is to be specified by The City of Statesville.
4. Refer to the Pad-mount Building Clearance Standard (separate document) for the minimum allowable distance between transformer pads and buildings, building openings, and equipment. There shall be a minimum clearance of 10’ from the front of the concrete pad to any walls, machinery, or any obstacles. If there are multiple transformers or secondary bus enclosures involved in the installation, there shall be a minimum clearance of 3 feet between all pad-mount equipment.
5. **A 1” metering conduit from the secondary compartment of the pit pad to the metering location as specified by The City of Statesville.** This will usually be the building wall. For any other location, please consult in The City of Statesville.

Customer Responsibilities (Continued)

6. **Customer shall install the conduit for the primary conductors (size specified by City) as close to the center of the “primary window” area as practical.** The secondary conductors shall remain in the “secondary window”.
7. The primary conduit(s) and the customer’s secondary conduits shall be cut to meet the dimensions as shown. Typically, 6” above gravel (See page 13 for Pit Pad Illustration).
8. Customer shall inform The City of Statesville of the number, size, and type of secondary conductors that will be installed along with the number and size of secondary conduits installed.
9. The customer must be specific regarding the requested delivery voltage! Special metering and grounding considerations may need to be considered. For 3-wire deliveries, a single grounding conductor from the customer shall be connected to the copper grounding ring in the transformer compartment, and the ground strap must be completely disconnected from the XO bushing.

Note: 4-wire deliveries and 3-wire deliveries **SHALL NOT** be provided from the same transformer.

10. It is the responsibility of the customer to provide excess length when conductors are in parallel. All parallel conductors shall be grouped and marked by the electrician. There must be no more than 1.5 feet difference between the shortest and the longest of any parallel cables on any one phase.
11. If the customer is required to bury the primary conduit to the utility source (as specified), the customer shall insure to maintain AT LEAST 36” depth from the top of the conduit to the final grade of the site.
12. Concrete pad shall be installed in a manner that allows the pad to be at least 5” above the surrounding grade (See page 4 & page 5 Side View)

The City of Statesville Responsibilities

1. The City will supply and install the ground rod(s) prior to the installation of the pad-mount transformer.
2. The City will supply and install all primary and secondary connectors to the transformer terminals. Excess secondary conductor length is the responsibility of the customer as there will be very little space in the secondary compartment of the transformer to accommodate excess cable.
3. The City will supply the pad-mounted transformer
4. The City will supply the meter base for a CT’ed service.

Concrete Mix Specifications (If Customer Constructs Pad)

1. Concrete mix used for transformer pads shall meet the following requirements:
 - Minimum 28 day compressive strength of 3,000 psi
 - Maximum water / cement ratio of 0.50
 - Maximum slump of 4 inches
 - Air-entrainment content between 4 and 8 percent

2. Concrete shall be afforded adequate cure for a minimum of:
 - five (5) days if the ambient temperature is over 70° F, or
 - seven (7) days if the ambient average temperature is below 70° F.
3. Adequate cure can be performed by any of the following methods:
 - Waterproof membranes
 - Sprinkling or Soaking
 - Curing Compounds
4. Pad shall be supported on a sub-base of sand, gravel, crushed stone, or compacted soil. The granular sub-base is to be a minimum of four (4) inches thick and shall be compacted with a vibratory compactor.
5. Dampen the sub-base prior to concrete placement. At the time of placement, the sub-base shall not contain standing water.
6. The top of the concrete pad must be steel troweled and completely smooth to prevent “gaps” between the transformer and the surface of the concrete pad.

Installing Conduit in Pit Pads

Conduit for The City’s primary cables shall be specified by The City and installed by the customer when installing or pouring the pad. Conduit shall be Schedule 40 and shall adhere to the following specifications:

| Conduit Size | Elbow Radius |
|--------------|--------------|
| 4” | 36” |
| 5” | 36” |
| 6” | 36” |

Customer shall install the conduit for the primary conductors as close to the center of the “primary window” of the pad as practical.

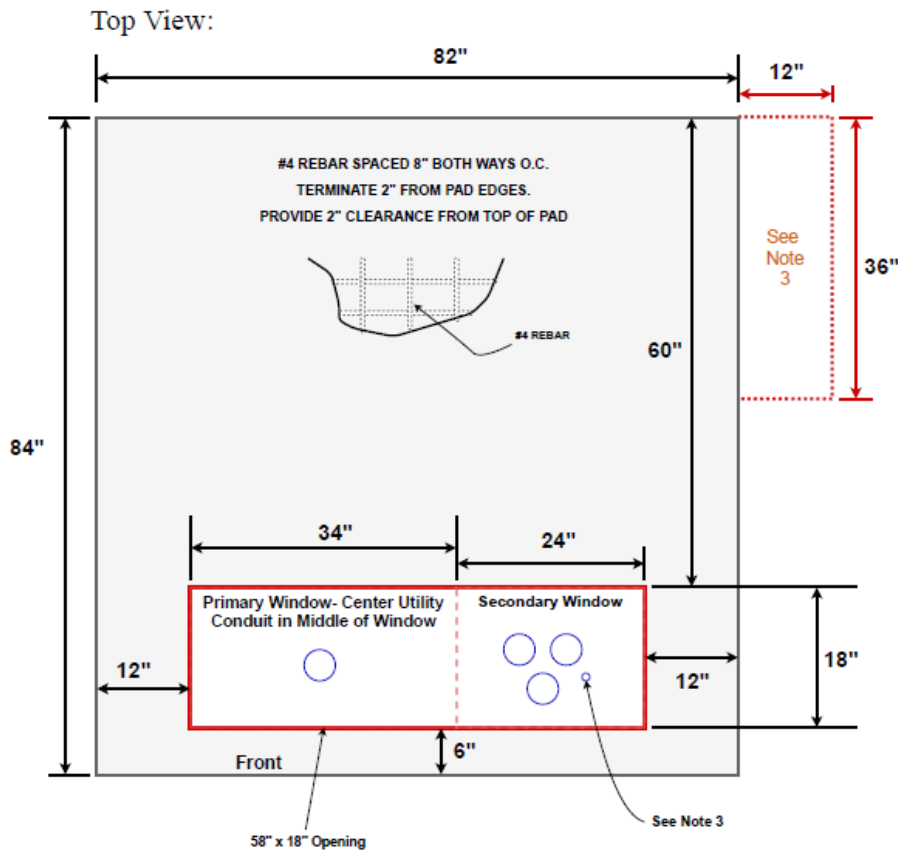
All conduits shall be installed so the belled end is “up” in the transformer compartment to minimize damage to the cables during installation. If the conduit needs to “come up” in any other location in addition to inside transformer, the end shall be belled up as well (i.e. belled up on dip pole).

Customer’s secondary conduits shall not cross or interfere with the primary conduits. (The customer’s conduit can exit the secondary window either coming out the front, the right side, or the back.)

The customer’s secondary conduits shall not extend outside the designated “secondary” area of the window.

Small Flat Pad and Pit Pad

(This Drawing is Not to Scale)



SMALL FLAT &
PIT PAD
DIMENSIONS
82" WIDE
84" LONG
6" THICK



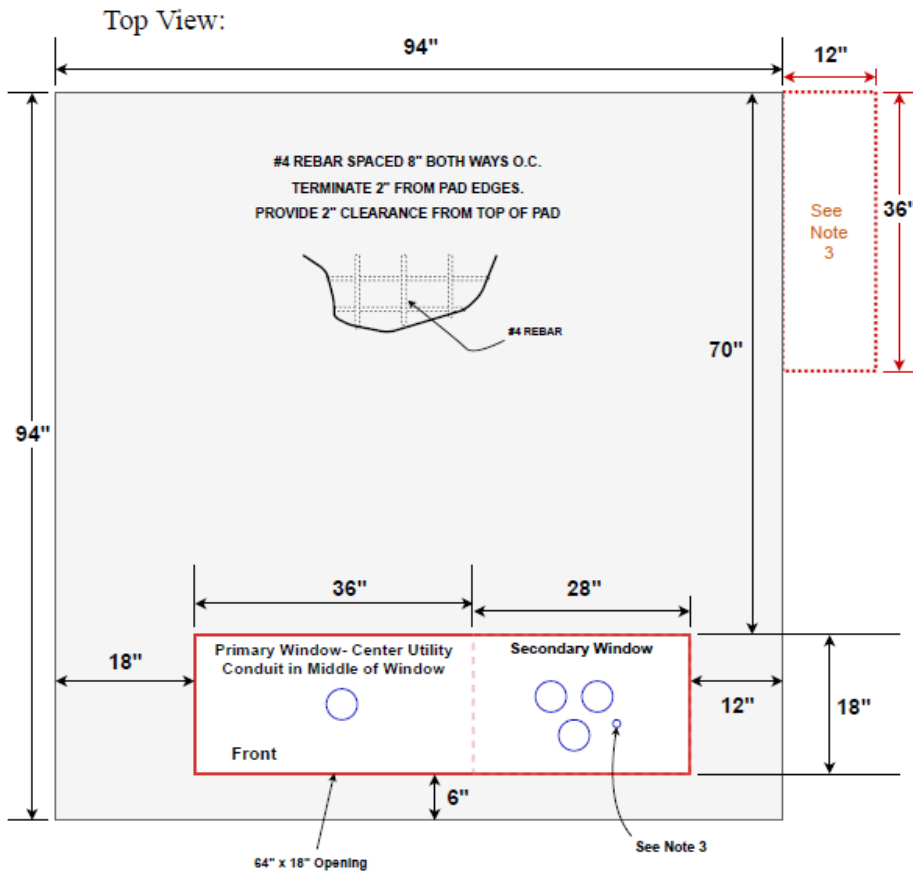
- 1- Top of pad to sit 6" above level ground (final grade)
- 2- Check clearances (Separate Document) before permanent placement of pad
- 3- One 1" meter conduit to be provided by customer. Meter conduit shall go from the secondary compartment of the pad to the metering location usually one of the following:
 - A) A building wall that allows for attachment of a meter base (with adequate spacing and wall strength)
 - B) Rear right corner of the pad (dashed red 12"x 36" area). Only allowed if free standing pedestal for meter base is provided by the customer. The most preferable location is the building if it is within 25' of the transformer (option A). For any other location consult City Engineer
- 4- Follow concrete mix specifications (Separate Document)
- 5- Flat pad shown above, for pit dimensions and reinforcing bar specifications see guide in next pages

Large Flat Pad and Pit Pad

(This Drawing is Not to Scale)



**LARGE FLAT &
PIT PAD
DIMENSIONS**
94" WIDE
94" LONG
6" THICK

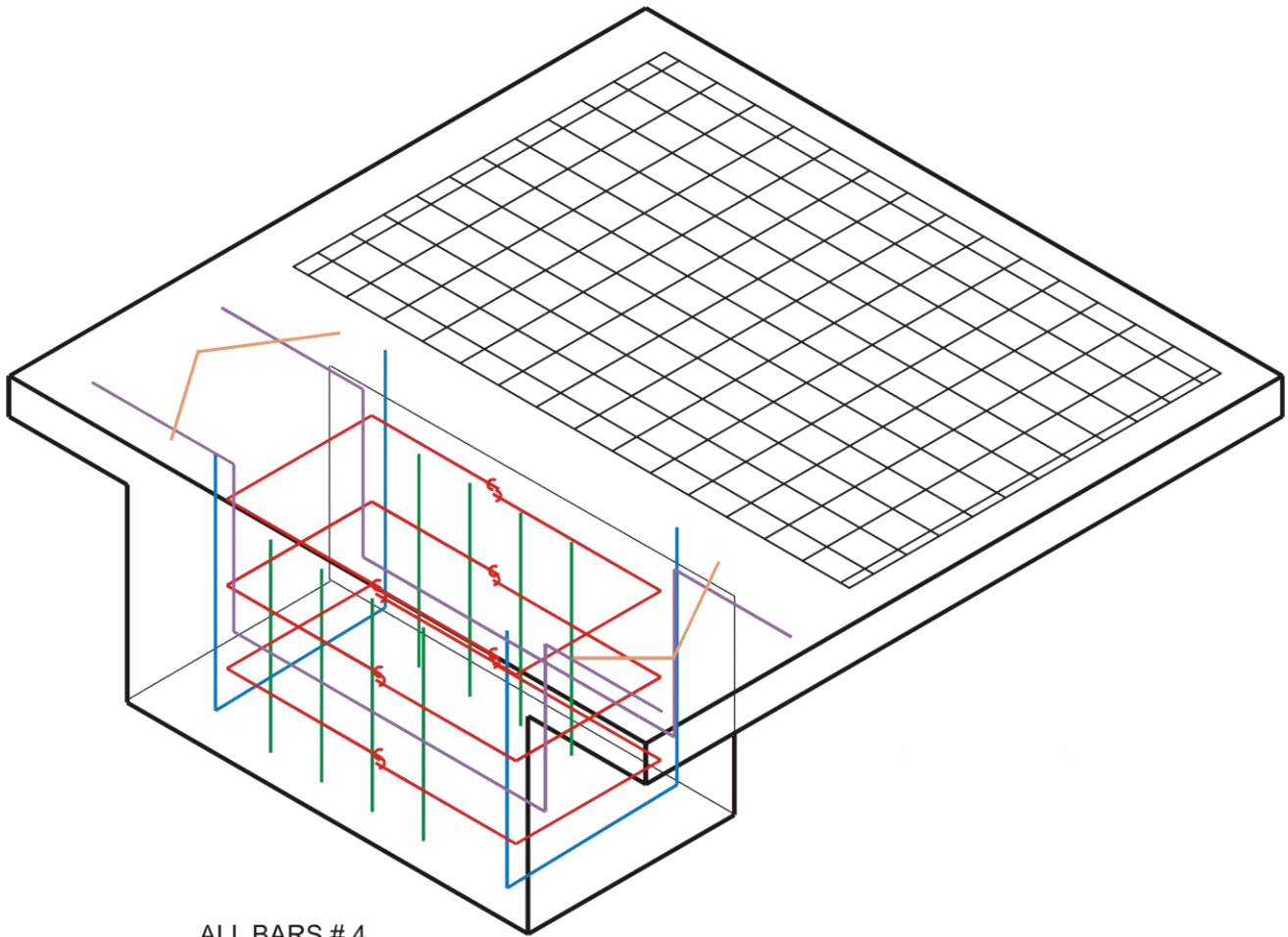


Side View:













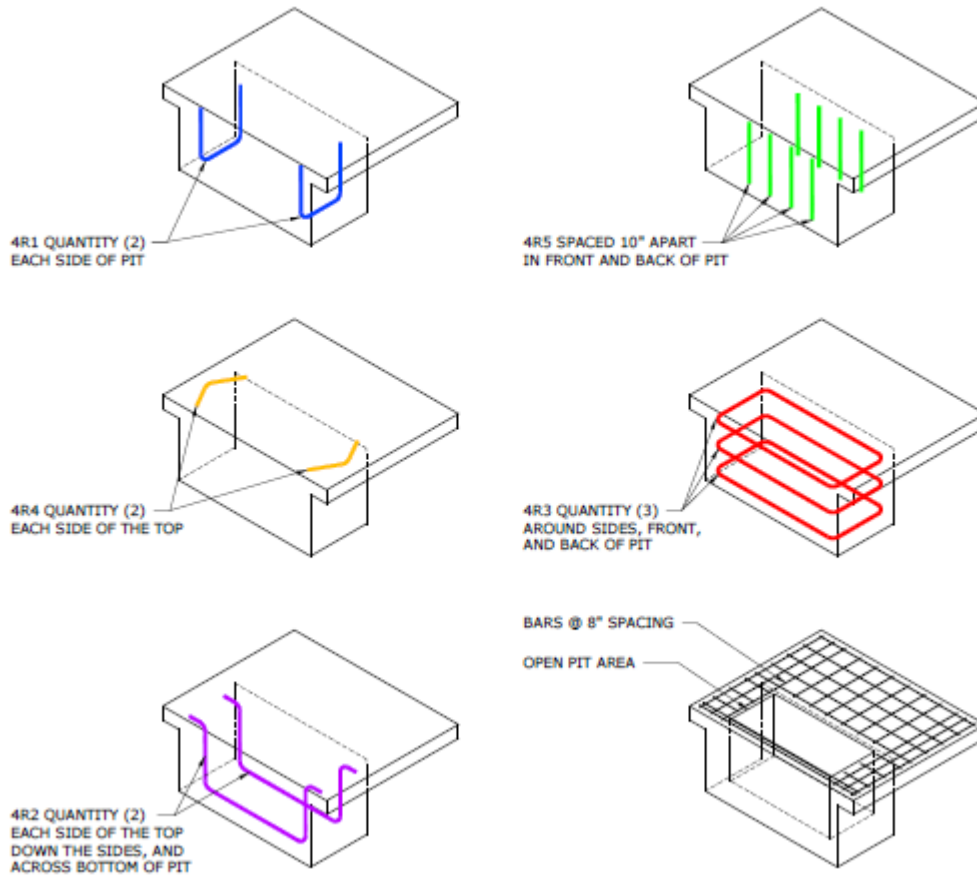
- 1- Top of pad to sit 6" above level ground (final grade)
- 2- Check clearances (Separate Document) before permanent placement of pad
- 3- One 1" meter conduit to be provided by customer. Meter conduit shall go from the secondary compartment of the pad to the metering location usually one of the following:
 - A) A building wall that allows for attachment of a meter base (with adequate spacing and wall strength)
 - B) Rear right corner of the pad (dashed red 12"x 36" area). Only allowed if free standing pedestal for meter base is provided by the customer. The most preferable location is the building if it is within 25' of the transformer (option A). For any other location consult City Engineer
- 4- Follow concrete mix specifications (Separate Document)
- 5- Flat pad shown above, for pit dimensions and reinforcing bar specifications see guide in next pages

CONCRETE PIT PAD - COMPLETE CONSTRUCTION



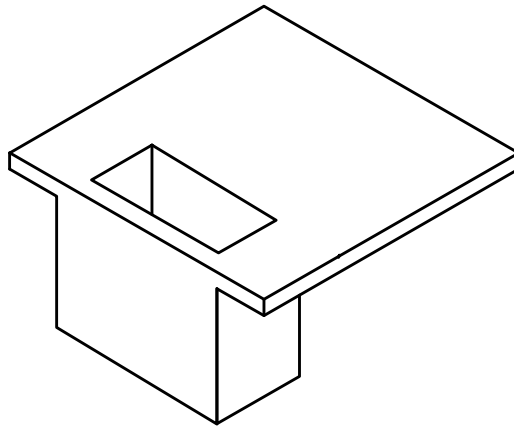
ALL BARS # 4
GRADE 60 DEFORMED

| SHAPE DETAIL | SYMBOL | MARK |
|---|---|------|
|  |  | 4R1 |
|  |  | 4R2 |
|  |  | 4R3 |
|  |  | 4R4 |
|  |  | 4R5 |



| ALL BARS #4 GRADE 60 DEFORMED | | | | |
|-------------------------------|--------|------|-----|---|
| SHAPE DETAIL | SYMBOL | MARK | QTY | DESCRIPTION |
| | | 4R1 | 2 | CENTER BARS IN "PIT BOX" SIDE WALLS. PROVIDE 3" CLEARANCE FROM WALL BOTTOM AND 2" CLEARANCE FROM TOP SURFACE OF PAD. |
| | | 4R2 | 2 | CENTER BARS IN "PIT BOX" END WALLS. PROVIDE 3" CLEARANCE FROM WALL BOTTOM AND 2" CLEARANCE FROM TOP SURFACE OF PAD. TERMINATE BAR ENDS 2" FROM PAD EDGES. |
| | | 4R3 | 4 | CENTER BARS IN "PIT BOX" END AND SIDE WALLS. PLACE BOTTOM BAR 3" FROM PIT BOTTOM. PLACE TOP BAR 2" FROM TOP SURFACE. MAXIMUM BAR SPACING IS 12". |
| | | 4R4 | 2 | PLACE BARS IN APPROXIMATE LOCATIONS SHOWN TO PROVIDE CORNER CRACK CONTROL. PROVIDE 2" CLEARANCE FROM TOP SURFACE AND ANY CONCRETE EDGE. |
| | | 4R5 | 8 | CENTER IN END WALLS OF "PIT BOX". TERMINATE BARS 3" FROM BOTTOM SURFACE AND 2" FROM TOP SURFACE. MAXIMUM BAR SPACING IS 12". |
| - | - | WWF | - | PROVIDE 2" CLEARANCE FROM TOP SURFACE. TERMINATE 2" FROM PAD EDGES. |

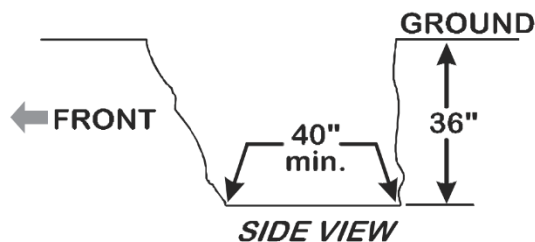
*Image above courtesy of Duke Energy "Three-Phase Pad-Mounted Transformer Concrete Foundation Specifications"



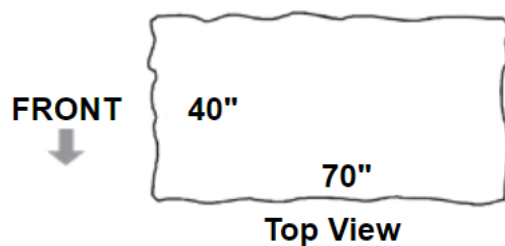
Instructions for Building 3-Phase Pad-mounted Transformer Pit Pads

- Step 1 Dig a rectangular shaped hole approximately:
- Small Pit Pad: 40" x 70" x 36" Deep (70" side should be front side)
 - Large Pit Pad: 40" x 76" x 36" Deep (76" side should be front side)

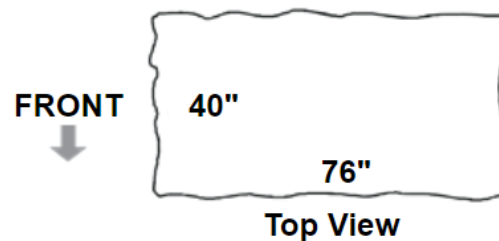
Note: The hole indicates the front of the transformer. The pad should be located so that a minimum 10' of clearance can be maintained in front of the transformers and a minimum of 3' of clearance on all other sides



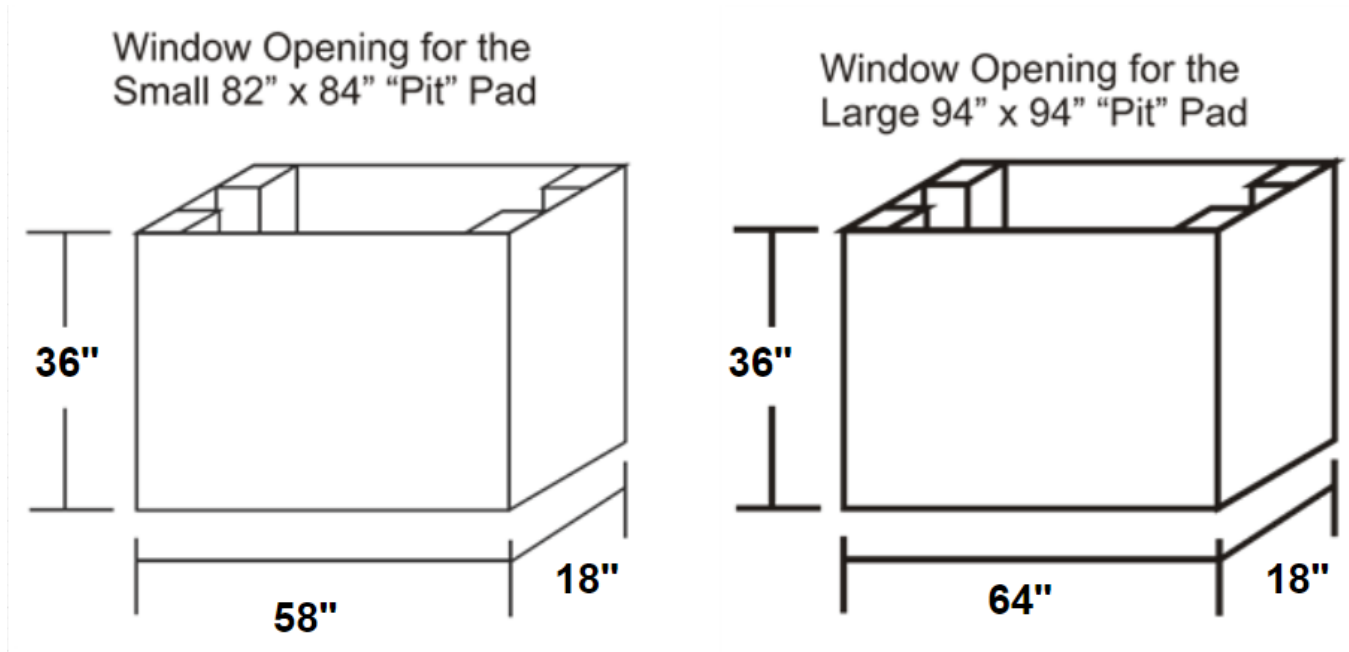
SMALL PIT PAD HOLE



LARGE PIT PAD HOLE

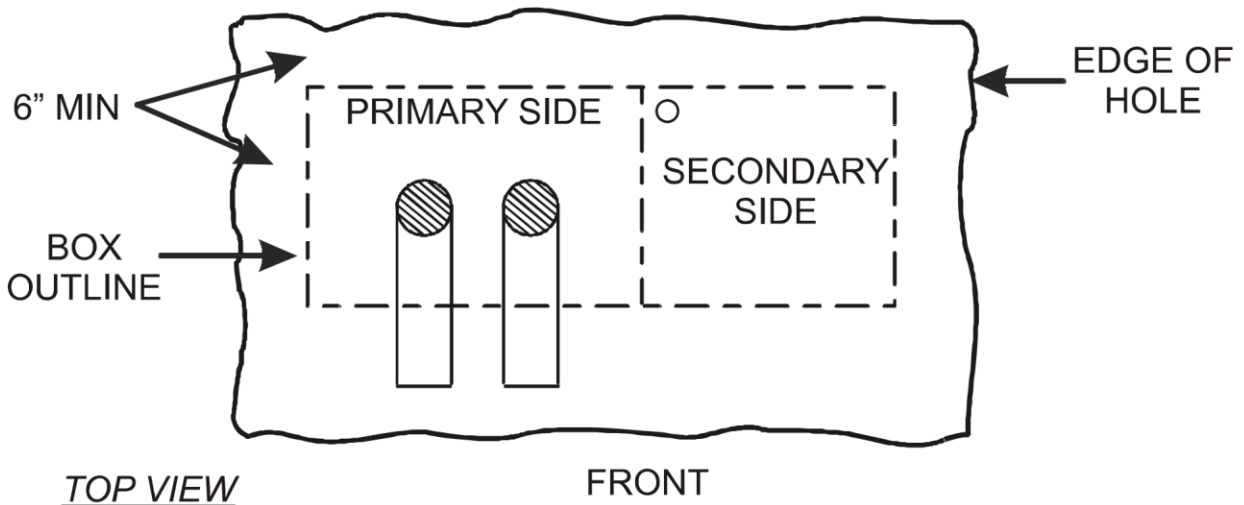


- Step 2 Build a rectangular shaped box, open at the top and bottom, from 2x4's and plywood. The plywood sides of the box should be 36" tall.



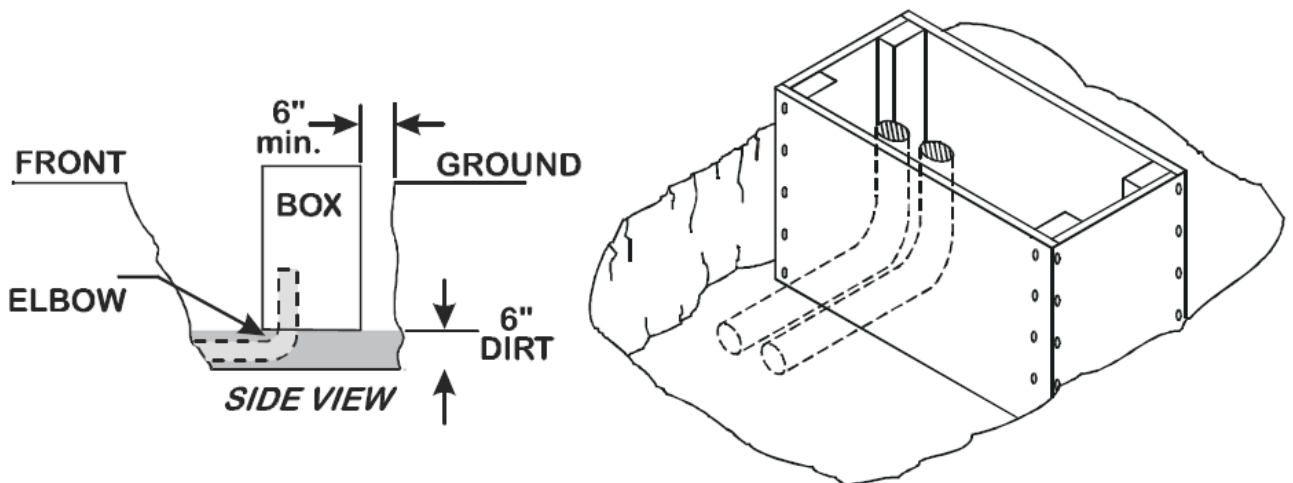
- Step 3 Set the box in the hole and position it so that a minimum of 6" of space exists between the sides and back of box and the edge of the hole. (The space between the box and front edge of the hole will approximately be 16"). Trace a line around the bottom outside edge of box in dirt and then remove the box. Install elbows in the bottom of the hole for the primary conductors as specified by the City (belled end up) entering from the front of the hole and placed so they will come up within outline of the box (as centered in the primary window as possible). **TAPE BOTH ENDS OF CONDUITS COMPLETELY CLOSED.**

Note: The customer's secondary conduits should be installed at this time. The customer may elect to enter the secondary side of the box from the front, back, or right side if the service conductors will be provided by the customer. If the City is providing the service conductors, all conduits must enter from the front side of the box. The 1" metering conduit should also be installed at this time, as required. Make sure secondary and meter conduit(s) remain in the "secondary window" area.



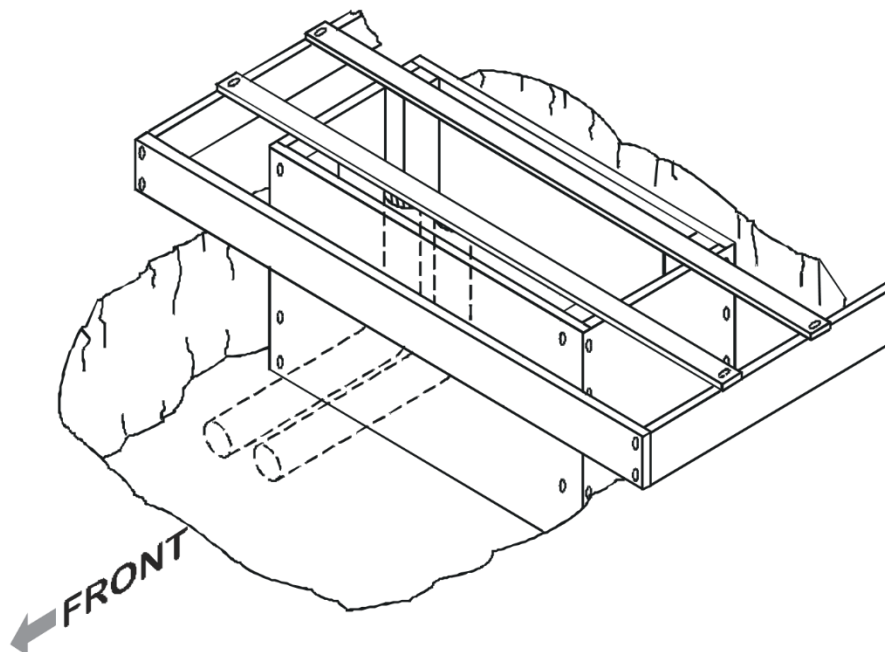
Window Box Placement

- Step 4 Fill approximately 6" of level compacted soil in the hole to support the conduit elbows. Place the box back in the hole over conduits, positioning the box again so a minimum of 6" of space exists between the back and sides of the hole and box. The box should stick out from the top of the hole approximately 6" (or the width of a standard 2x6 board). Make sure conduits enter correctly in primary and secondary side of the box.

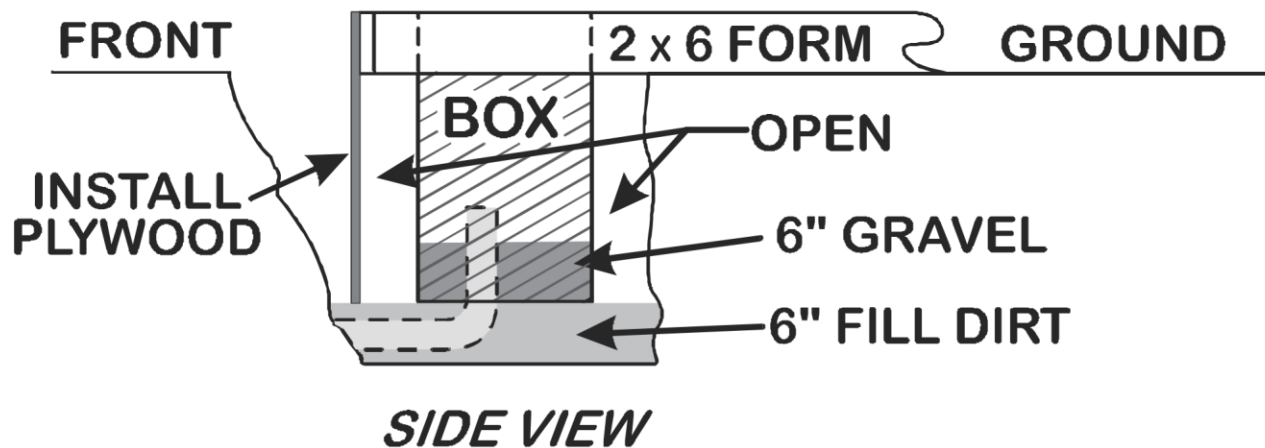


Primary Conduit Installation

Note: It may be easier to “level” box with the sides if you lay two 2x4 boards on the top of the side boards so that they cross over top of the box as shown in Figure 6. Tack these boards onto the top of the box to ensure sides are the same height as the box.



Rev 11/2020



Plywood Installation

- Step 6 Install a piece of plywood inside the hole long enough to reach from one side of the hole to the other and wide enough to reach from the top of the front 2x6 form to the bottom of the hole. Tack the plywood to the front of the 2x6 and let the bottom of the board rest on the ground. Plywood must be thick enough, so it won't give away at the bottom of the hole when the concrete is poured. The dimensions for the plywood should be approximately:

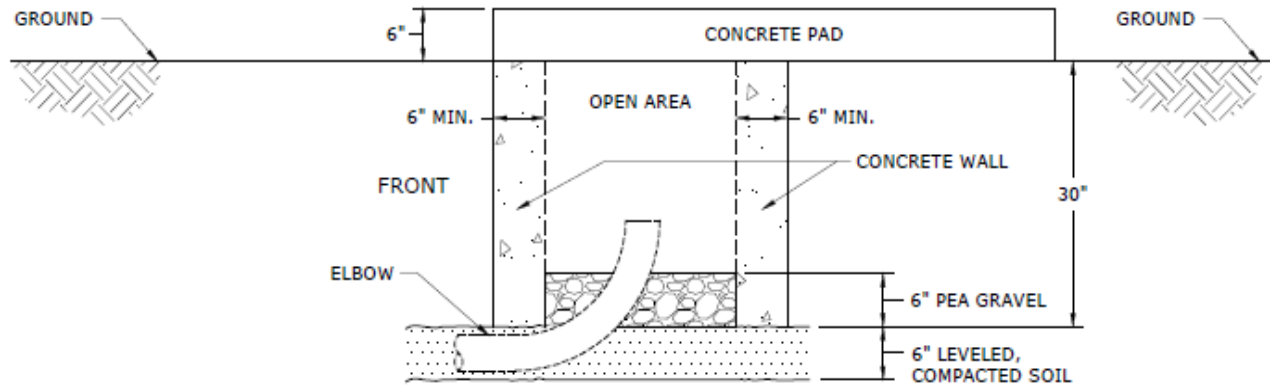
Small Pit Pad: 70" x 36"

Large Pit Pad: 76" x 36"

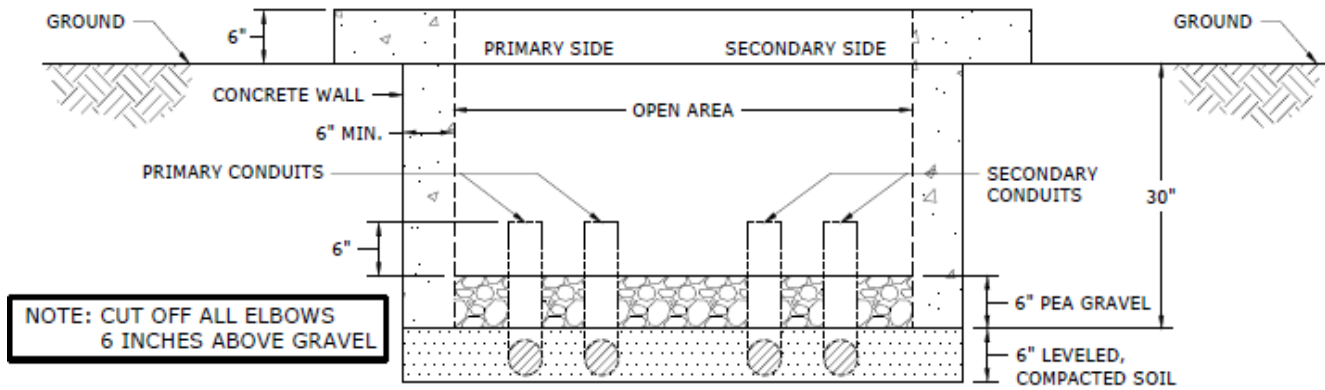
- Step 7 Fill in the area between plywood and the front of the hole with dirt. be careful that the plywood doesn't "push in" at bottom. Fill the bottom of the box with 6" pea gravel.
- Step 8 Install and tie together the reinforcing bars around the box in the "pit area" and in the "pad area" to reinforce entire pit pad (See pages 6 & 7 for more details.)

Note: A utility inspection is required at this point (before pouring concrete) to verify dimensions of form boards, placement of conduits, and placement of reinforcing bars in "pit area" and rebar in the "pad area".

- Step 9 Pour concrete around the box and within the 2x6 forms. (See "Concrete Mix Specifications" on page 2)
- Step 10 Allow concrete to set, then remove 2x6 forms and box.



SIDE VIEW



FRONT VIEW

*Image above courtesy of Duke Energy "Three-Phase Pad-Mounted Transformer Concrete Foundation Specifications"

THE CITY OF STATESVILLE

PADMOUNT TRANSFORMER BUILDING CLEARANCE STANDARD

These guidelines specify minimum distances to buildings, building openings, and equipment to provide fire risk protection and adequate working space.

Table 1 below lists the minimum clearances to buildings and building openings. Refer to sections A, B, and C below concerning placement around doors, windows, and air vents (intakes and exhausts). Section D lists allowable distances to specific equipment.

Table 1- Clearances from Buildings and Building Openings

| Type of Construction | Clearance extending out from building* | Side clearance | Height clearance |
|----------------------|--|----------------|------------------|
| Combustible | 12 ft | | |
| Non-Combustible | 6 ft | | |
| Doors | 20 ft | 10 ft | |
| Windows | 10 ft | 5 ft | 10 ft |
| Air Vents | 20 ft | 10 ft | 25 ft |

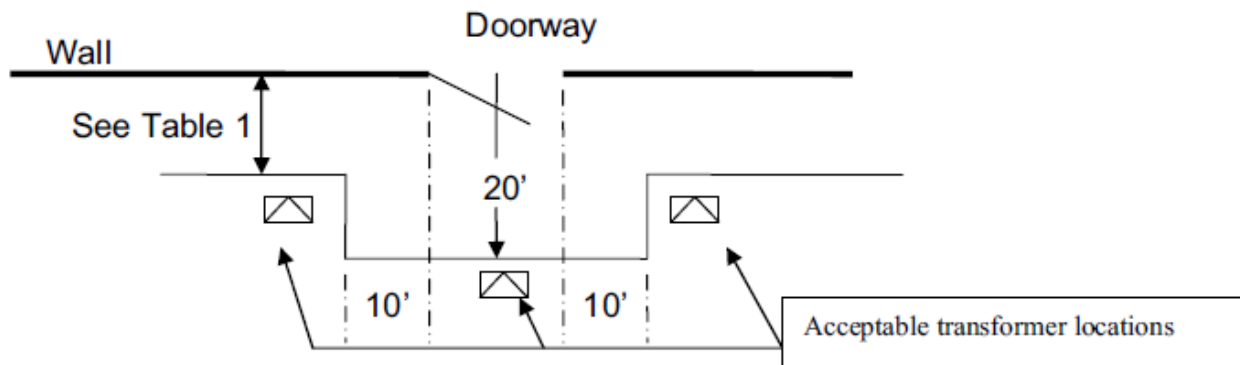
*habitable and non-habitable buildings

Notes:

1. Distances are from the pad or transformer whichever is closer to the building or opening.
2. If the building has an overhang, the distance is measured from the outside edge of the overhang.
3. Outside walkways or stairs attached to the building shall be considered as part of the building. Minimum clearance must also be maintained from walkways used for exit to a place of safety.
4. Avoid placing transformers in front of doors and windows and beneath windows and vents whenever possible.
5. Final grade at the location of the transformer shall provide for mineral oil to drain away from the building. Otherwise an oil containment means is required.
6. Distances less than those specified in Table 1 but not less than the working space required in Section E may be allowed if approved by the appropriate code enforcement authority. This may require alternate means of fire protection per NEC Section 450.27 and NESC Section 152(A) (2) including fire batteries, fire rated walls, sprinkler systems, oil containment means, or other approved measures. Use of alternate means of fire protection must be approved by the local code enforcement authority.
7. It shall be the customer's responsibility to conform to all local building codes, insurance regulations, or ordinances affecting the transformer location.
8. Combustible/Non-Combustible construction type shall be that which is defined by respective state building codes.

A. Doors, Fire Escapes, or Fire Exits

Padmount transformers shall not be located within a zone extending outward 20 feet and 10 feet to the side from any doorway, fire escape, or fire exit. See diagram below.



B. Window or Opening other than an Air Vent

Where the vertical clearance to a window is less than 10 ft, the mineral oil-filled transformer shall not be located within a zone extending 10 feet outward from the building and 5 feet to the side of the window. See Table 2 below. Where the vertical clearance is 10 ft or greater, the transformer shall not be located within the distance outward from the building wall as determined by building construction type.

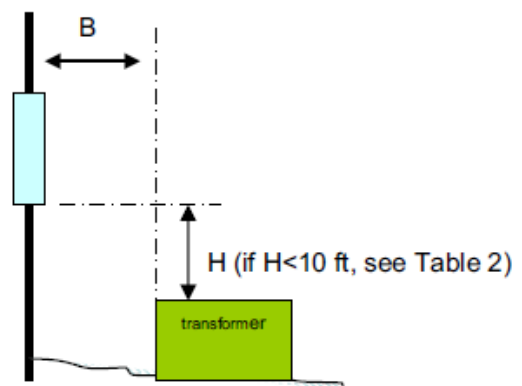
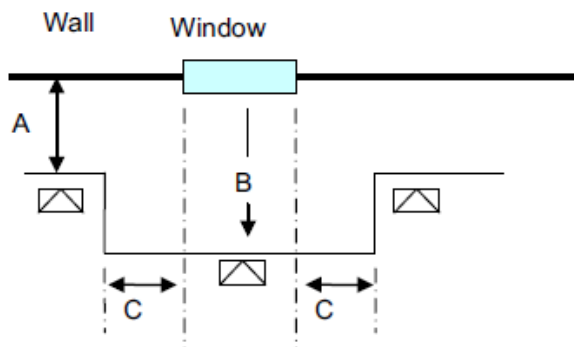


Table 2 (H<10ft)

| Type of Construction | A | B | C |
|----------------------|-------|-------|------|
| Combustible | 12 ft | 12 ft | ---- |
| Non-combustible | 6 ft | 10 ft | 5 ft |

C. Air Vent

Where the vertical clearance to an air vent is less than 25 ft, the mineral oil-filled transformer shall not be located within a zone extending 20 feet outward from the building and 10 feet to the side of the vent. See Table 3 below. Where the vertical clearance is 25 ft or greater, the transformer shall not be located within the distance outward from the building wall as determined by building construction type.

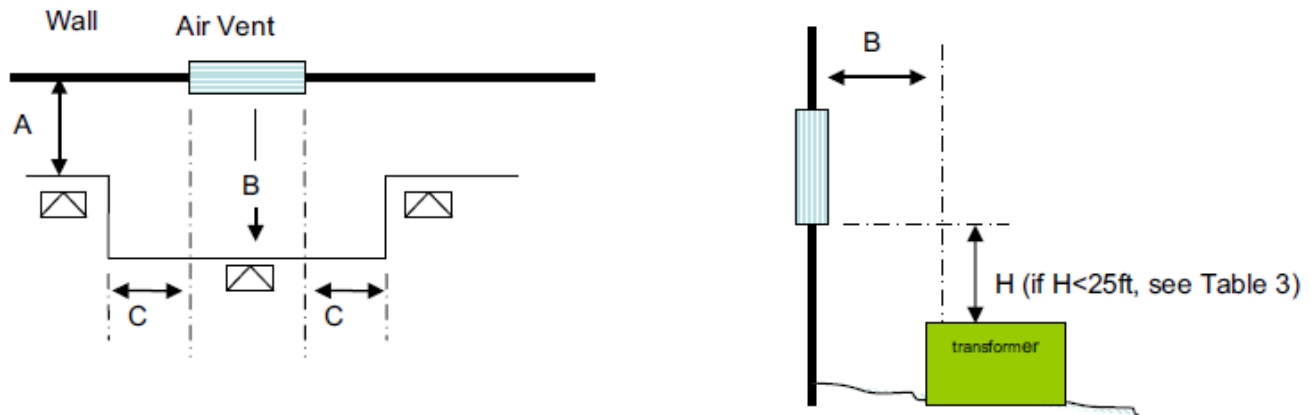


Table 3 (H<25ft)

| Type of Construction | A | B | C |
|----------------------|-------|-------|-------|
| Combustible | 12 ft | 20 ft | 10 ft |
| Non-combustible | 6 ft | 20 ft | 10 ft |

D. Allowable Distances from Equipment

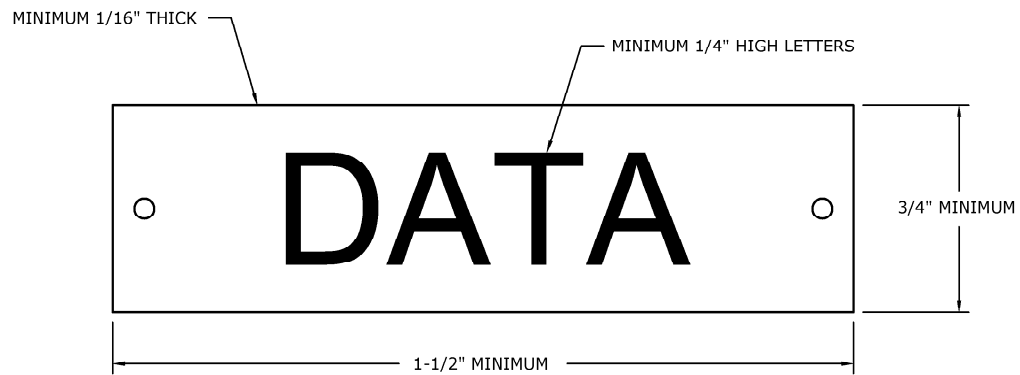
Table 4 – Clearance to Equipment*

| Type of Equipment | Minimum Distance |
|--|------------------|
| Containers of flammable liquids or gas. (Oxygen, LP, Gasoline, etc.) | 20 ft |
| Generators, customer owned transformers, etc. | 6 ft |
| Fire hydrants, sprinkler valves, standpipes, etc. | 6 ft |
| Natural gas meters | 3 ft |

* This is not an all-inclusive list.

E. Working Space

A minimum clear working space of 3 ft must be maintained from each side of the transformer and a minimum of 10 ft from the front. Where a meter is mounted near the transformer pad, a clear space around the meter at least 3 ft wide, 4 ft deep, and 8 ft high must be provided and always be available for reading, inspecting, testing, and maintenance operations. Clear space for safe access to and egress from the working space must be maintained.



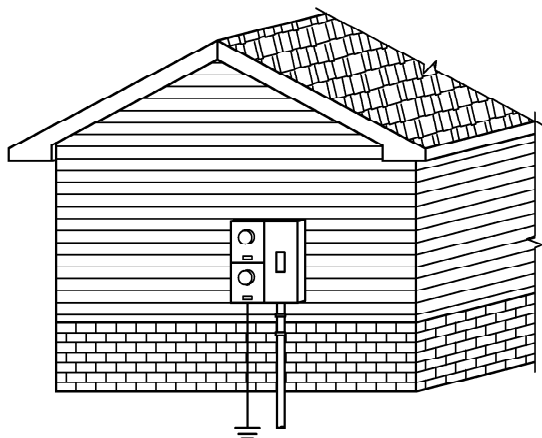
NOTES:

1. ON INSTALLATIONS, REPAIRS, REPLACEMENTS OR UPGRADES OF ENCLOSURES INVOLVING MORE THAN ONE METER ON A SINGLE PREMISE, THE CUSTOMER SHALL CORRECTLY IDENTIFY EACH ENCLOSURE ON THE OUTSIDE BY A NONFERROUS METAL OR PLASTIC PLATE ENGRAVED OR STAMPED WITH THE APARTMENT NUMBER, OFFICE SUITE, LOT NUMBER ETC.
2. THE PLATE SHALL BE RIVETED TO THE METER ENCLOSURE.
3. THE INSIDE OF EACH METER ENCLOSURE SHALL BE CORRECTLY IDENTIFIED WITH A PLATE DESCRIBED ABOVE OR WITH A PERMANENT MARKER.
4. IT IS ALSO DESIRABLE TO WRITE THE ADDRESS NUMBER ON THE INSIDE OF THE METER BASE WITH PERMANENT MARKER.

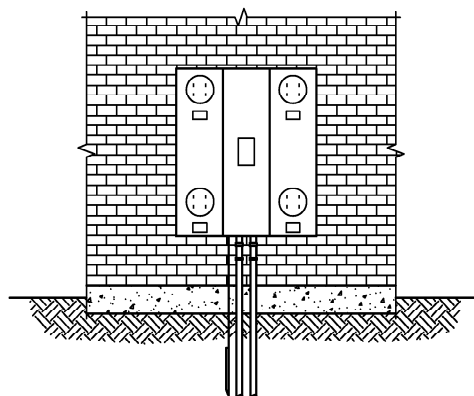
| | | | |
|---------|---------|---------------|-----|
| 3 | | | |
| 2 | | | |
| 1 | | | |
| 0 | 0/19/11 | CADD GRAPHICS | OST |
| REVISED | BY | APPR. | |

LABELING MULTIPLE METER ENCLOSURES

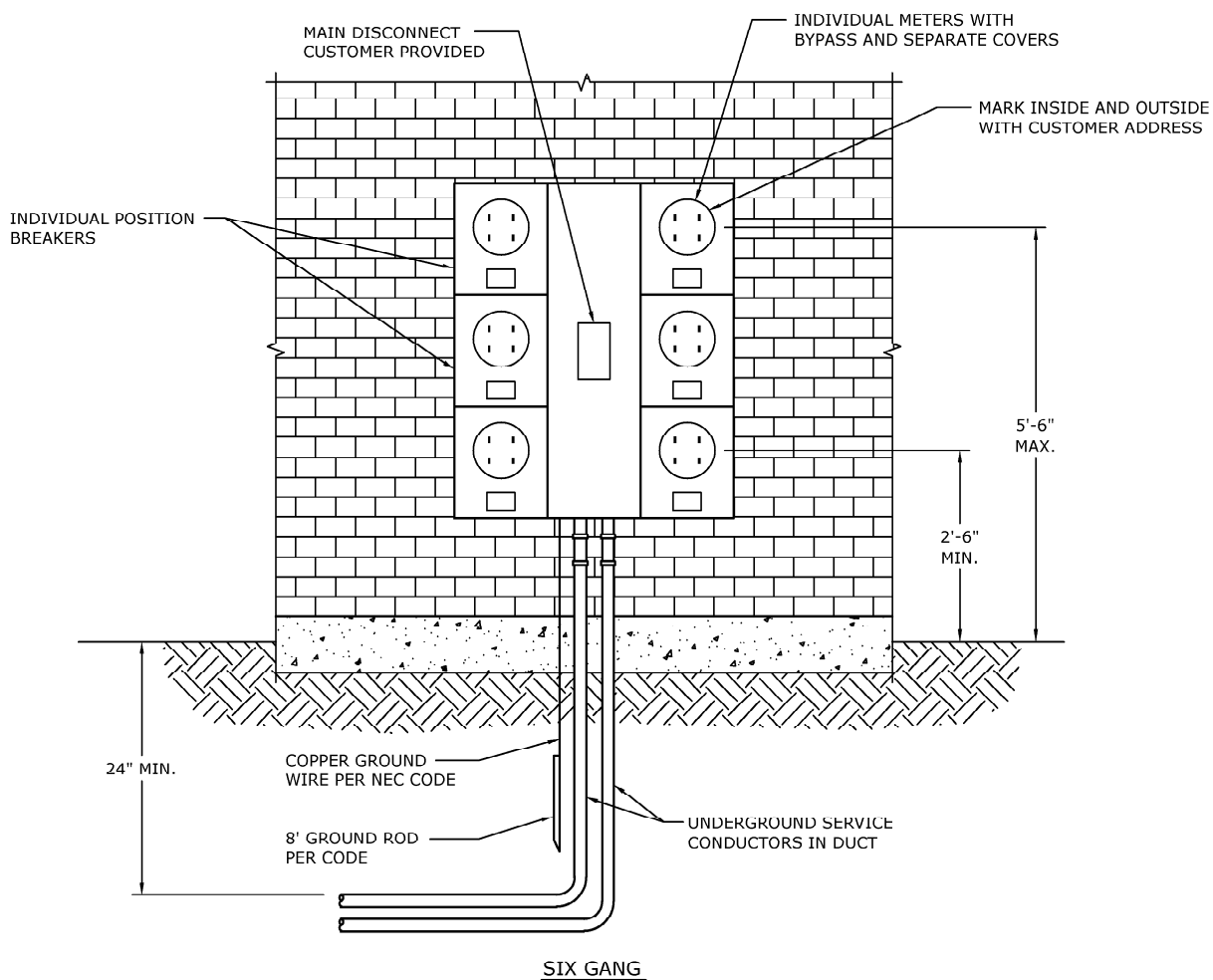
| | |
|--|----------------|
| ELECTRICITIES <small>of NORTH CAROLINA, INC.</small> | |
| SCALE NO SCALE | DWG. QA-2EC |



TWO GANG



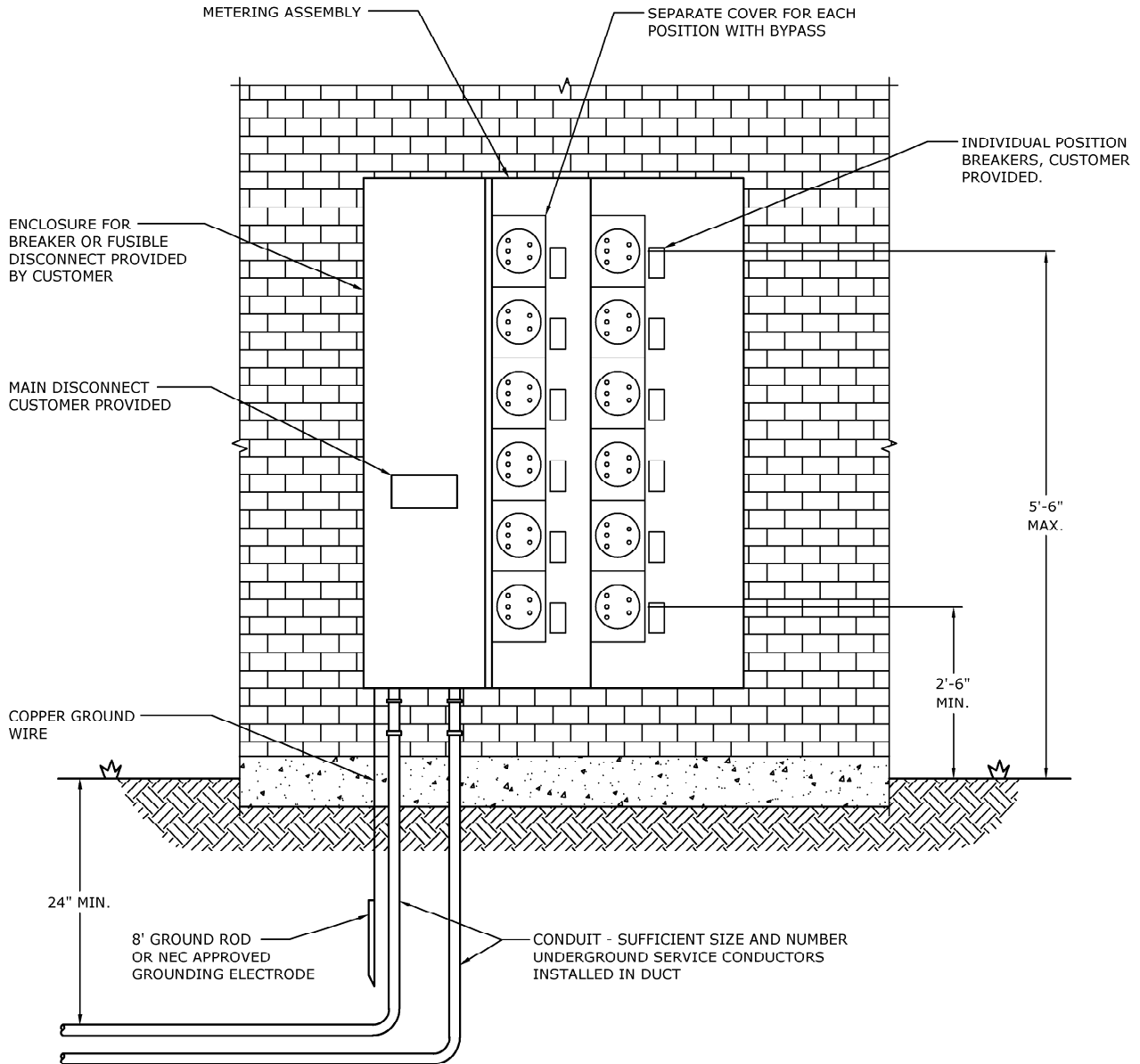
FOUR GANG



| | | | |
|---------|---------|---------------|-----|
| 3 | | | |
| 2 | | | |
| 1 | | | |
| 0 | 2/20/11 | CADD GRAPHICS | OST |
| REVISED | BY | APPR. | |

2, 4 AND 6 PRE-ASSEMBLED
MODULAR METERING INSTALLATION

| | |
|---|-----------------|
| ELECTRICITIES of NORTH CAROLINA, INC. | |
| SCALE NO SCALE | DWG. QA-23EC |



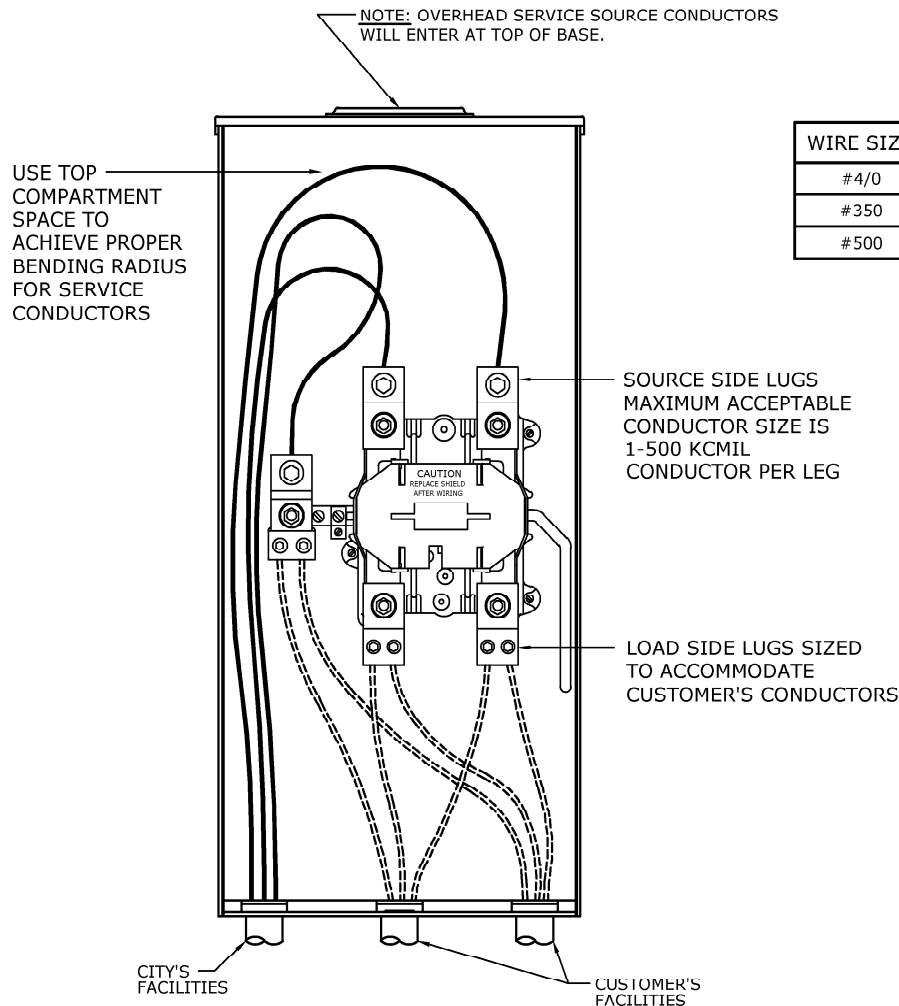
NOTES:

1. INDIVIDUAL METERS CAN BE LOCATED ON EITHER SIDE OF MAIN BREAKER.

| | | | |
|---------|---------|---------------|-----|
| 3 | | | |
| 2 | | | |
| 1 | | | |
| 0 | 2/20/11 | CADD GRAPHICS | OST |
| REVISED | BY | APPR. | |

**LARGE, SINGLE-PHASE, PRE-ASSEMBLED
MODULAR METERING INSTALLATION**

| | |
|---|-----------------|
| ELECTRICITIES of NORTH CAROLINA, INC. | |
| SCALE NO SCALE | DWG. QA-25EC |



| WIRE SIZE | MINIMUM BENDING RADIUS |
|-----------|------------------------|
| #4/0 | 3-1/2" |
| #350 | 4 1/2" |
| #500 | 5-1/2" |

SINGLE-PHASE
120/240 VOLTS
120/208 VOLTS

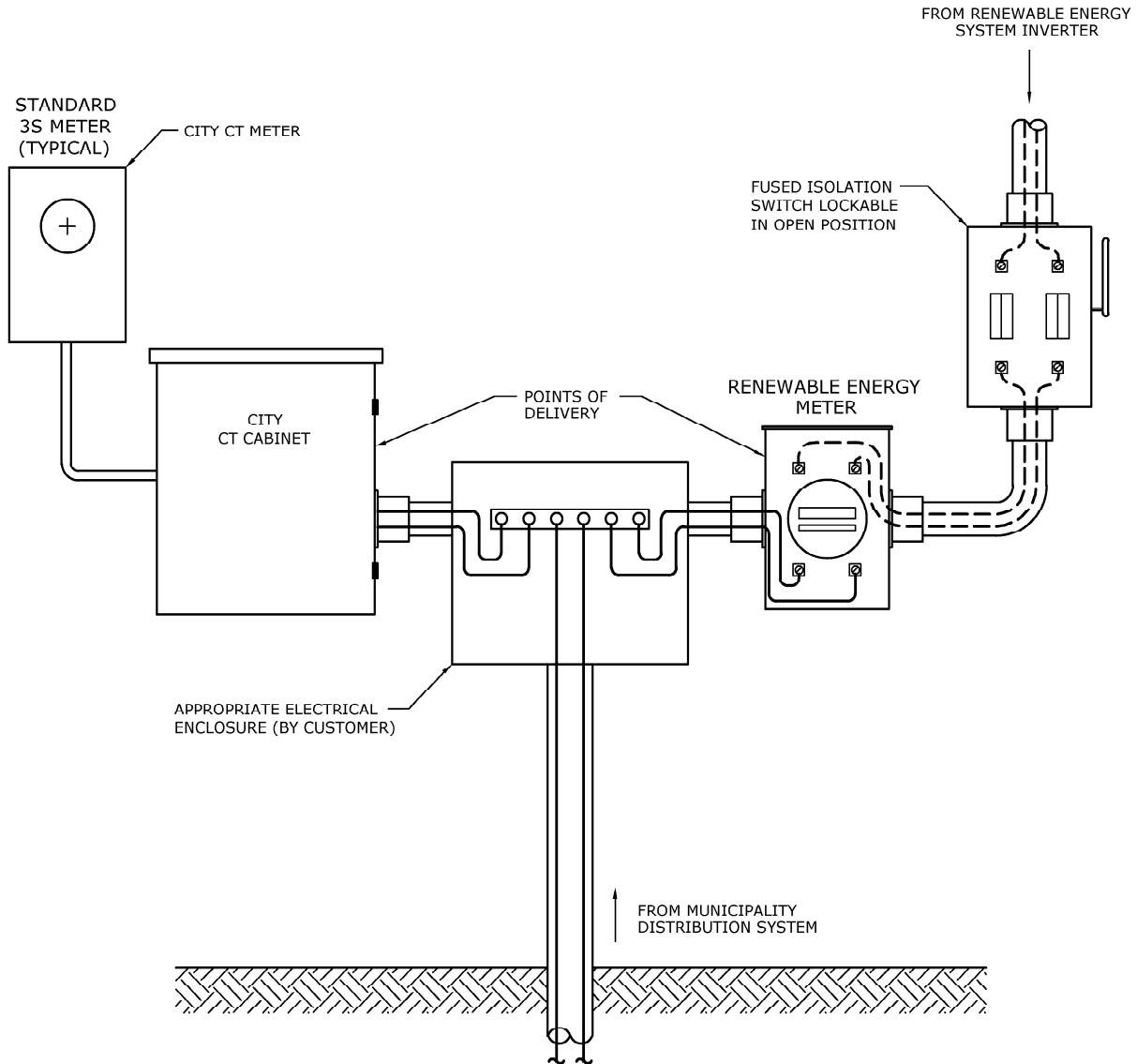
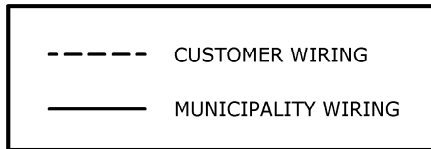
NOTES:

1. MINIMUM METER BASE DIMENSIONS: (WIDTH 13" X HEIGHT 31" X DEPTH 5")
2. METER BASE CAN BE USED FOR OVERHEAD OR UNDERGROUND SERVICES.
3. METER BASE TO BE USED ON SERVICES WITH TWO BREAKER PANELS WHEN THE COMBINED BREAKER RATINGS DO NOT EXCEED 400 AMPERES. METER BASE IS ALSO TO BE USED ON SERVICES WITH ONE BREAKER PANEL WHEN THE MAIN BREAKER IS RATED 400 TO 225 AMPS, AS LONG AS THE CONTINUOUS LOAD IS 320 AMPS OR LESS.
4. METER BASE SHALL BE UL APPROVED AND HAVE A LEVER-OPERATED BYPASS/JAW-TENSION RELEASE DEVICE.
5. BYPASS HANDLE MUST NEVER BE CUT OFF.
6. METER BASE BYPASS HANDLE MUST BE IN "UP" POSITION TO SET AND REMOVE METERS. THE BYPASS DEVICE IS NOT A DISCONNECT.
7. THE "TOP" LUGS ARE SOURCE SIDE.
8. THE "BOTTOM" LUGS ARE LOAD SIDE.
9. THE METER BASE SHALL BE MOUNTED SO THAT THE METER POSITION WILL BE BETWEEN 3' TO 5'-6" ABOVE FINAL GRADE.

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| REVISED | BY | APPR. | |

SELF-CONTAINED 320 AMPERE METER BASE

| | |
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| | |
| SCALE NO SCALE | DWG. QA-15EC |



NOTES:

1. NEUTRAL AND GROUND WIRING NOT SHOWN.
2. CONSUMPTION METER AND RENEWABLE ENERGY METER SHALL HAVE A NAMEPLATE ATTACHED.
3. SEE DWG. PV-2EC FOR WIRING DIAGRAM.

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**RENEWABLE ENERGY INTERCONNECTION
INSTALLATION - PHYSICAL CONNECTION ILLUSTRATION
METERING AND DISCONNECT**

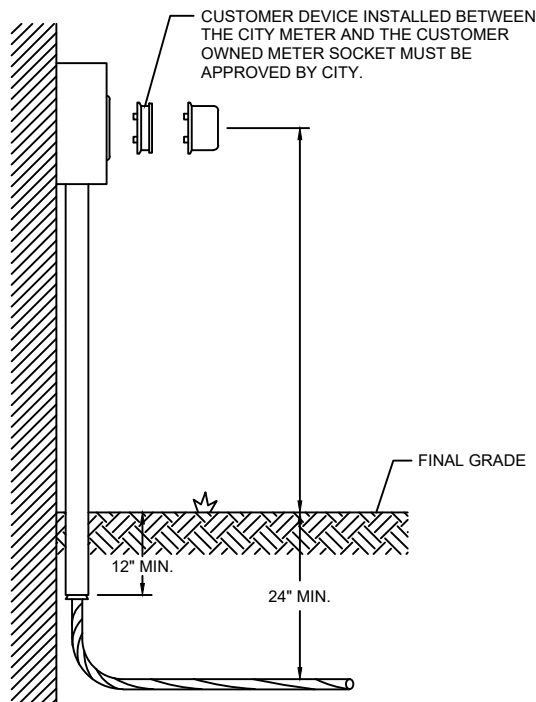
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| ELECTRICITIES of NORTH CAROLINA, INC. | |
| SCALE NO SCALE | DWG. QA-11EC |

ALL DEVICES

1. ANY DEVICE REQUESTED TO BE INSTALLED BETWEEN THE METER AND THE METER SOCKET MUST BE PRE-APPROVED BY CITY.
2. AT THE CITY'S DISCRETION, CITY WILL ONLY APPROVE DEVICES WHICH WILL NOT ADVERSELY:
 - (a.) IMPACT THE ACCURACY OF THE CITY'S METER
 - (b.) IMPACT CITY'S ABILITY TO READ THE METER
 - (c.) AFFECT SERVICE TO, OR USE OF SERVICE BY, THE CUSTOMER OR OTHER CUSTOMERS
3. ANY PARTY DESIRING TO INSTALL A DEVICE BETWEEN THE METER AND THE METER SOCKET MUST OBTAIN A PERMIT OR MAKE OTHER SUITABLE ARRANGEMENTS WITH THE ELECTRICAL INSPECTION AUTHORITY PRIOR TO INSTALLING SUCH DEVICES. IF OTHER SUITABLE ARRANGEMENTS ARE MADE, A COPY OF THE ARRANGEMENT MUST BE ON FILE WITH CITY.
4. ALL INSTALLERS OF DEVICES BETWEEN THE METER AND THE METER SOCKET MUST SCHEDULE THEIR INSTALLATION WITH CITY TO MINIMIZE INTERRUPTION OF SERVICE TO THE CUSTOMER. FUNCTIONS THAT MUST BE SCHEDULED ARE:
 - (a.) METER REMOVAL
 - (b.) ELECTRICAL INSPECTION AFTER THE DEVICE IS INSTALLED (IF REQUIRED)
 - (c.) REINSTALLATION OF THE METER
5. PRIOR TO INSTALLING THE DEVICE, THE INSTALLER MUST INSPECT THE METER SOCKET, CHECK THE GROUNDING CONDUCTOR AND GROUND TO ENSURE THE INSTALLATION IS NEC AND UL APPROVED.

REINSTALLATION OF THE METER

1. ENSURE INSPECTION REQUIREMENTS HAVE BEEN COMPLETED.
2. CHECK FOR GROUNDING CONTINUITY THROUGH THE DEVICE TO ENSURE THE METER WILL BE GROUNDED WHEN IT IS INSTALLED.



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| 1 | 3/27/2023 | JEFF GALLIHER | JOSH MAHAFFEY |
| 0 | 8/19/11 | CADD GRAPHICS | OST |
| REVISED | BY | APPR. | |

**DEVICES INSTALLED BETWEEN
THE METER AND THE METER SOCKET**

SCITY of
STATESVILLE
ELECTRIC UTILITIES

SCALE
NO SCALE

DWG.

Need a new residential electric meter base for new construction or replacement? If you are a City of Statesville Electric System Customer, you are in the right place!



The City of Statesville provides both 200 amp and 150 amp rated self-contained meter bases for customers served by its electrical system free of charge for installations meeting its requirements:

- A valid electrical permit number issued by Iredell County Building Standards Division
- The address where the work is to be performed
- A signature of the person/company performing the work

These meter sockets can be picked up at the Municipal Warehouse at 915 Winston Ave. Statesville, N.C. 28677 between the hours of 7:00 am – 3:00 pm Monday through Friday, (During City Holidays or states of emergency, etc. the Warehouse will be closed).

The City of Statesville Electric Department encourages its customers to use of the City-provided meter bases. However, in the case of self-contained meter bases the City allows the use of customer-purchased equipment. Customers may purchase and use only self-contained meter bases, ganged meter bases, or multi-position meter centers that are on the Meter Equipment Group (MEG) approved list. All installed equipment shall be unmodified beyond the stock configuration from the manufacturer. Adding blocks or connectors to increase capacity or change the socket configuration is an unauthorized modification. The installed bases must remain consistent to the MEG product approval list.

Please contact Technical Services with any questions:

Joshua Mahaffey, Technical Services Supervisor can be reached at 204-832-3845 or jmahaffey@statesvillenc.net