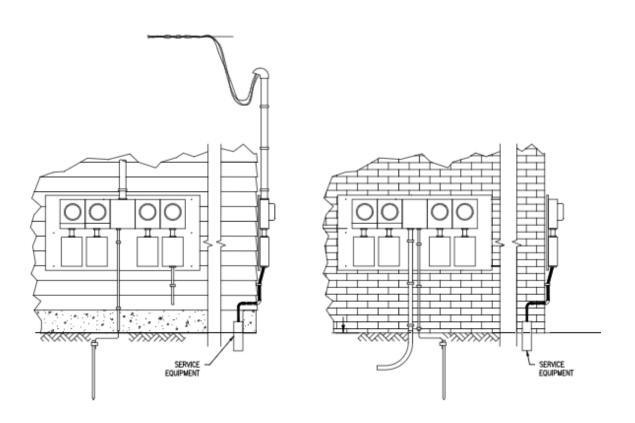
Electric Meter Installation Guidelines



Effective July 1, 2022



Preface

This guide is effective July 1, 2022. All earlier guides and publications pertaining to Electric Service and Metering Installations should be destroyed.

This guide is provided to assist customers, contractors, engineers, developers, electricians, architects and inspectors in planning and installing electric distribution and services.

These regulations and policies are intended to provide safety and speed of service connection by providing uniform and equitable requirements for electric service.

The standards herein are designed to complement and not conflict with any applicable City, County, or Community Ordinances, the National Electrical Safety Code, or the National Electrical Code.

Norwich Public Utilities standards and clearances may exceed the National Electrical Safety Code and National Electric Code requirements.

There is no single rule or inspection that will cover all circumstances. Norwich Public Utilities welcomes and encourages inquiries about unusual and special cases, as well as clarification of our requirements and standards. Any deviations from the specifications in this booklet must be approved in advance by Norwich Public Utilities.

Territory Served

Norwich Public Utilities provides electric service to the City of Norwich, Connecticut with limited service to surrounding communities.

Our Administrative and Operations Office is located at:

16 SOUTH GOLDEN STREET NORWICH, CONNECTICUIT 06360 TEL: (860) 887-2555

Contact Information

To contact us for more information or assistance with a new service, upgrade, or an outage please call Customer Service at 860-887-2555 and request a Project Coordinator.

Definitions

- o The term "NPU" when used herein shall mean Norwich Public Utilities.
- The term "customer" when used shall mean any person or company applying for, receiving, using, or agreeing to take a service provided by Norwich Public Utilities.
- The term "service point" when used shall mean the point of connection between Norwich Public Utilities infrastructure and the premises wiring.
- The term "PURA" when used herein shall mean Public Utilities Regulatory Authority.
- The term "NESC" when used herein shall mean the current edition of the National Electric Safety Code as adopted by Norwich Public Utilities at the time of distribution installation.
- The term "NEC" when used herein shall mean the current edition of the National Electric Code as adopted by the local authority having jurisdiction at the time of construction.
- The term "unauthorized person" when used herein shall mean any person or company who has not contacted Norwich Public Utilities and received authorization before the removing or otherwise disabling an electric utility meter.
- The term "residential" when used herein shall mean any dwelling unit, garage, storage building shelter/gazebo or other structure or equipment that is used solely for private (non-business) purposes.
- $\circ~$ The term "commercial/industrial" when used herein shall mean all non-residential services.
- The term "hot sequence metering" when used herein shall mean the service disconnect is on the load (customer's) side of the meter.
- The term "cold sequence metering" when used herein shall mean the service disconnect is on the line side of the meter.

Overhead High-Voltage Line Safety Notice

It is NPU's policy to insure the safety and welfare of our employees, customers, and contractors. NPU requires that you maintain 11 feet from any Norwich Public Utilities lines. If work needs to be done around our lines, please contact us so that we can make the necessary precautionary safety arrangements. We request that you do so a minimum of two business days in advance (except in emergency situations). Do not regard the covering or markings which may be observed on our wires as insulation.

Contact with our wires could result in serious harm or even death. Stay away from all downed, low-hanging, or burning wires and treat them as if they are "LIVE" powered.

Primary voltage cutouts or disconnecting switches, installed by customers for their own use on privately owned systems, must be operated by a qualified (as defined by OSHA) individual.

Any downed, low-hanging, or burning wires should be reported to NPU, the police, or the fire department.

Call NPU at: (860) 887-2555

Call Before You Dig Law

Connecticut law establishes requirements that excavators and others must follow when using power tools or equipment to penetrate the ground. More information about this can be found at <u>www.CBYD.com</u>.

Before digging, notify CBYD at: 811

General Safety

When ladders, scaffolding, and other items come into touch with wires, they can get electrified, regardless of their material. When building, siding, painting, cleaning gutters, or working in the vicinity of our facilities, exercise extreme caution. Call NPU a minimum of two business days before starting any work.

It is forbidden to remove or relocate existing NPU overhead or underground service equipment. If you need to move or remove something, contact NPU.

Existing electrical infrastructure such as hand holes, transformer pads, and switch vaults should not be entered or opened.

Cranes, backhoes, and other heavy machinery must never be operated within 11 feet of our overhead lines. Consult OSHA's approach to limit regulations.

Never change or install fuses or breakers for a main switch or branch circuits that are not the correct size for the installation as per NEC.

To minimize electrical sources feeding back into our lines and threatening unsuspecting utility workers, proper installation of emergency generators or other power sources is critical.

Table of Contents

Preface1
Territory Served1
Contact Information
Definitions2
Overhead High-Voltage Line Safety Notice
Call Before You Dig Law
General Safety
Table of Contents
General Information
Customer Responsibility7
Before Installation:
Access7
Maintenance7
Electrical Safety Code and Code Clearances
Clearances
Operating Near Energized Lines
Overhead9
Residential Cut and Reconnect Policy9
Underground9
Services
General
120 volts, single-phase, two-wire, (up to and including 60 Amps)10
120/240 volts, single-phase, three-wire10
120/208 volts, single-phase, three-wire, (from four-wire system)10
120/208 volts, three-phase, four-wire, Grounded Wye10
277/480 volt, four-wire, Grounded Wye10
Overhead Secondary Service
Underground Secondary Service
Metering
General
Service Equipment

Residential Service	14
Non-Residential Service	14
Meter Location	14
Meter Position	14
Pole Mounted Meters	14
Meter Pedestals	15
Multiconnection Points	15
Identification of Meters	15
Clearance for Metering Equipment	16
Self-Contained Metering	16
General	16
Meter By-Pass Requirements	17
Maintenance and Repair of Meter Sockets	17
Bonding of Meter Sockets	
Moving and Removing Meters and Metering Equipment	18
Load Splitting	
Instrument Transformer Metering	
Current Transformers (CTs)	18
Current and Voltage Transformers (CTs & VTs)	19
Meter Mounting Devices (Transformer Rated)	19
Instrument Transformer Cabinets	19
Mast or Building Mounted CT Installation	20
Padmount Transformer Installations	20
Switchgear Installations	20
Meter Sockets and Installation	21
Meter Sockets	21
Meter Sizes for Typical Installation	22
Installation Requirements	22
Detach (Self-Supporting) Meter Mounting	23
Drawings	23
Appendix	24
Appendix A: Residential Cut and Reconnect Policy	25

Appendix B: Approved Metering Equipment	27
Appendix C: Guideline for Typical Underground Meter Socket	31
Appendix D: Repair Rate for Damaged Meters (as of April 2022, subject to change)	32

General Information

NPU has published this guide as a reference to obtaining electric service. It includes information on the different types of electric service offered, service conditions, and material and construction standards in the Customer's electric service and meter installation.

The standards set forth herein supersede all Norwich Public Utility publications of "Electric Service and Meter Installation Specification" released before this date, and they are subject to change at any time.

Customer Responsibility

Before Installation:

- Notify CT Call Before You Dig by calling **811** before any excavation.
- NPU account and account deposit requirements must have been satisfied.
- Make arrangements for the installation by other utilities.
- Provide the necessary permanent easements and permits (including environmental) to cover the location of NPU's facilities including aerial lines, underground cable and equipment, and transformers. This includes city and state permits for conduit under the public way.
- City and town requirements shall have been met, and equipment must pass inspection, before the installation of a meter.

Access

Access to any meter for reading, maintenance, repair, replacement, or testing is essential to ensure accuracy and reliability of the metering infrastructure. Each customer, at the request of NPU, shall arrange for NPU to access the metering devices within two weeks from the date of NPU's first request. Services may be discontinued until access is granted.

Subject to the consent of the customer, which consent shall not be unreasonably withheld, NPU shall have the right of access to the customer's property at all hours for any purpose related to the furnishing of service. The failure of the customer to consent to such access may result in, at the determination of NPU, the discontinuation of the service to the customer until furnishings can be completed and quality assured.

There should be no obstruction or storage of other materials preventing access to the meter.

The metering infrastructure shall not be placed above or behind a furnace, water heater, dryer, or other such arrangement limiting access to the meter.

Maintenance

The customer shall own and maintain all attachments to the meter, including but not limited to meter sockets, disconnect switches, and breakers.

The customer shall protect the meter from any negligent damage and may be required to install bollards to do so.

Any negligent damage to the meter shall be charged a negligent damage fee at meter cost. Subsequent damage to the meter in the same fiscal year will result in (1.5) times the meter cost and any service charge associated with the repair/removal and installation of a new meter. See Appendix D for rates.

Electrical Safety Code and Code Clearances

NPU's policy is to operate the Electric Distribution System with the utmost care and safety for the public and its workers. The National Electrical Safety Code is utilized by NPU for the design, building, maintenance, and operation of the Electric Distribution System, as well as any associated activity by the public and private sector, to assure the care and safety required for an Electric Distribution System. The applicable NESC in effect at the time of installation of the metering infrastructure will be used.

When a hazardous condition arises, NPU reserves the right to deny and/or cancel service without prior warning.

Clearances

Drawing sheets in the Drawings section of this booklet contain illustrations of current electrical safety code clearances. These diagrams are designed to serve as a guide to widely used data, not to provide all of the information that may be required in specific situations. For more information about clearances, visit the most recent edition of the NESC.

- The minimum clearance between any building or other structure and any line, overhead distribution facility, or electric utility pole shall be maintained in accordance with this document or the NESC's rules, whichever is greater.
- Minimum clearance between signs, chimneys, radio and television antennas, storage tanks, and other structures, and any line, overhead distribution facility, or electric utility pole shall be maintained in accordance with this document or the NESC's rules, whichever is greater.
- Overhead distribution facilities must maintain minimum clearance above streets, alleyways, parking lots, rights-of-way, easements, and other public areas in accordance with the provisions of this document or the NESC's rules, whichever is greater.
- Any person or company proposing any action that would result in a violation of the minimum clearances, or any person or company proposing to change the use or grade of land that would conflict with the herein guidelines, must notify NPU ninety days prior to the proposed action. NPU will investigate the feasibility of relocating or reconstructing such line, distribution facility, and/or electric utility pole in conflict with the planned action, to meet clearance requirements, after receiving such notice. NPU will conduct the necessary work at the expense of the customer whose proposed action violates the minimum clearance standard if it is judged that such relocation or reconstruction is practicable.

• If it is found that relocation of the line, distribution facility, and/or electric utility pole is not practicable, NPU may impose further measures to avoid a breach of the minimum clearance standard. Any action required by NPU under this section shall be completed at the expense of the customer whose proposed action does not meet the minimum clearance standard.

Operating Near Energized Lines

Overhead

When operating equipment near overhead electrical lines, Federal OSHA regulations mandate a minimum distance of 10 feet for voltages less than 50,000 volts. Norwich Public Utilities operates and maintains voltages ranging from 120 volts to 115,000 volts, hence no equipment should be operated within 11 feet. Contacting the line might cause serious damage or even death.

If you need to perform work near an overhead electric line, contact NPU for advice on how to prevent coming into contact with these powered facilities. Coverup and markers can be placed on the overhead wire to make it more visible. NPU requires two business days' advance notice to install any coverup or markers.

Residential Cut and Reconnect Policy

Master electricians with an E1 license are allowed to perform cuts and reconnects on overhead services if they have the proper permit for the work to be performed. All additional requirements of this policy are in Appendix A and must be adhered to. Violations of this policy may result in the revocation of an electrician's privilege to perform cuts and reconnects.

Underground

Work on grading or excavation must wait until underground facilities have been identified. Digging into subterranean electrical lines can bring serious damage or death to the operator and others, as well as service disruption to a large area. *Before digging, notify CBYD by calling 811*. Customers will not be charged for the services of trained specialists who will locate electrical facilities.

Services

General

The following service characteristics are generally standard; however, all types of service are not available in all localities, those that are available shall be obtained from NPU before any wiring is installed or equipment purchased. In cases of multiple occupancy installations, the combined load may be such that the characteristics of the service required will be different from that which the individual customer's loads might indicate. In such cases NPU reserves the right

to determine the type of service which will be supplied at 60 hertz. The maximum capacities as listed below may be exceeded, under certain conditions, with prior NPU approval. Metering note: see the Metering Section of this guide for metering options.

120 volts, single-phase, two-wire, (up to and including 60 Amps)

For highway signs, trailers, traffic controllers, CATV amplifiers or other small power loads. The service from NPU's facilities up to, and including, the meter shall be a 120/240 volt, single-phase, three-wire circuit. NPU approval must always be obtained in advance.

120/240 volts, single-phase, three-wire

For general lighting and/or heating and cooking, and small power loads with individual motors generally not over 5 hp. Where the total load exceeds 50 KVA, NPU may at its option, require the customer to arrange the wiring for three-phase service.

120/208 volts, single-phase, three-wire, (from four-wire system)

For general lighting and/or heating and cooking, and small power loads with motors generally not over 5 hp. Where the total load exceeds 40 KVA, NPU may, at its option, require the customer to arrange the wiring for three-phase, four-wire service.

120/208 volts, three-phase, four-wire, Grounded Wye

For large lighting loads, or combination lighting, heating/ cooking and power. Single-phase load shall be balanced between phases.

277/480 volt, four-wire, Grounded Wye

This installation is normally for power installations having demands of not less than 50 KVA. Single-phase load shall be balanced between phases. This service can be used to power equipment that requires 480 volt three-wire connection.

Overhead Secondary Service

For single phase service, NPU will furnish, install, own and maintain the overhead service drop, running from its secondary distribution system to a designated point on the customer's premises. It shall be the responsibility of the owner or contractor to have the point of attachment determined by NPU so that a solid fastening for the service drop may be incorporated in the building. The customer shall install a standard hook or eye bolt that is capable of holding 700 lbs of tension. For services to low buildings or where the style of building construction does not readily permit the installation of the standard hook or eye bolt, the customer will, with NPU approval, install a mast type service or provide an alternate means of attachment for the service drop.

In accordance with NEC Section 230.27, service drops shall be attached to buildings or other structures identified for use with service conductors. Per NEC Section 230.10, "vegetation such as trees shall not be used for support of overhead service conductors."

For polyphase service, the customer shall be responsible for the cost of any overhead service drop.

Overhead service that exceeds 150ft in length must be approved by NPU before installation.

SERVICE DROP CLEARANCE

In general, the ground clearance for triplex and quadraplex service drops, including drip loops, shall be not less than 12 feet for spaces accessible to pedestrians only, 16 feet over residential driveways, 18 feet over public ways, and 24 feet over railroads.

Where the height of attachment to a building does not permit the service drop, including the drip loop, to meet the above clearances, the ground clearance for building services, including the drip loop, with voltages of 150 volts or less to ground and consisting of triplex or quadraplex cable may be reduced to 10 feet over areas accessible to pedestrians only and 12 feet over residential driveways.

The above clearances are the minimum required at 120 degrees Fahrenheit final sag or 32 degrees Fahrenheit and ½ inch or radial ice, whichever produces the greatest sag (NESC requirement).

In order to obtain satisfactory clearances with low types of buildings, it may be necessary that special construction, as needed to provide a suitable point of attachment for the service drop, be furnished and installed by the customer, subject to NPU's approval.

The above clearances are based upon NESC and NEC minimum requirements.

RIGID CONDUIT

In order to avoid damage to meter enclosures or service entrance equipment, rigid conduit **shall not** be installed between a pole and a building where the pole is not solidly attached to the building and independent movement might occur.

SINGLE SERVICE DROP

Only one service drop connected to the same overhead mains will be attached to any one building, and only one set of service entrance conductors shall be connected to each service drop except in cases specifically permitted by the NEC, Section 230.2, or where special permission has been obtained from the "authority having jurisdiction." The drop may consist of parallel service cables for capacity. Overhead services may be provided up to and including 400 Ampere total switch frame capacity unless prior approval from NPU.

Underground Secondary Service

Residential underground services to operate below 150 volts to ground may be installed in customer owned conduit or direct buried in trench provided by the customer and meeting NPU standards and specifications as outlined below and in Drawing XXX-03 in the Drawings section.

For single family dwellings, if requested by customer, NPU will furnish and install required cable at customer's expense. All other installations will be furnished and installed by the customer. The following table lists the standard underground services available from NPU:

SERVICE SIZE	Meter Socket	Wire Size	Max Length ft.	Conduit Min
100 A	100/125	#2 AL	150'	2"
100 A	200	4/0 AL	440'	3"
200 A	200	4/0 AL	220'	3"
200 A	200	(2) 4/0 AL	440'	4"
400 A	320*	(2) 4/0 AL	220'	4"

TABLE 1.1 NPU STANDARD UG SERVICE OPTIONS

*The 320 amp meter socket must be provided with twin line side lugs to accommodate connection of the parallel #4/0 triplex cable.

If the cable is furnished and installed by the customer, particular notice should be made of the maintenance provisions of Cable and Duct maintenance section of this guide. The maximum length of customer owned residential underground secondary shall be in accordance with NPU Standard UG Service Option Table 1.1 in this guide. For services or conductor sizes other than those listed in NPU Standard UG Service Option Table 1.1, prior NPU approval is needed. Where service runs exceed the lengths listed in NPU Standard UG Service Option Table 1.1 or become impractical, a primary underground feed to a padmount transformer will be required.

There shall not be more than (6) conductors per spade for a single phase padmount. Three phase padmount transformers have different conductor per spade requirements due to transformer size prior NPU approval is necessary. Cases involving more conductors than these limits must be referred to NPU for special design and prior approval. NPU will make all primary connections to the padmount transformers. However, on customer owned cable, the customer must provide all lugs and associated hardware and install them on the cable.

For any underground service, splices or taps should be avoided. If splices or taps (as permitted in NEC Section 230.33 and 230.46) are required, then they must be in an enclosure or rated underground structure such as a handhole. Any splices on NPU's side of the meter socket must be accessible for inspection by NPU. Note, by choosing the appropriate meter socket, splicing for the purpose of "downsizing" conductors may be avoided.

Metering

General

The customer shall furnish and install NPU-approved meter mounting devices, including outdoor enclosures, instrument transformer cabinets and indoor test or connection block cabinets in accordance with the requirements in this guide and NEC Article 312.

All metallic equipment used for metering purposes shall be properly bonded and grounded as required by this guide and NEC Article 250. For services with instrument transformer-rated metering, See Drawing Section Drawing XXX-07 for further detail.

A meter socket (enclosure) shall be permanently and solidly mounted before the meter will be installed. All outside meter enclosures must be secured by screws, #12 minimum, which are stainless steel or zinc or cadmium coated (no washers permitted). Wherever a meter enclosure is mounted on siding (no backboard), use of screws that accommodate a Phillips and/or slotted style screwdriver is requested. Self-contained meter sockets attached to a building shall not be secured such that cables will prevent subsequent access to the mounting screws. This requirement is to allow for future "floating" of the meter socket.

NPU will furnish and install all meters. When required, current transformers (CTs), voltage transformers (VTs), test switches and control cable for installation in the customer's approved equipment will be furnished by NPU.

As a general rule, all electricity sold (delivered) to one customer on one building will be measured (metered) at one point. Furthermore, the metering should be located at, or near, the point of delivery and at delivery voltage whenever it is practicable to do so. Alternative arrangements must be discussed and approved by NPU in advance.

The customer shall make reasonable effort to separate residential and non-residential use for metering purposes.

Service Equipment

Voltage, current, interrupting duty, and ground fault current must all be properly rated in the metering and service equipment.

Service equipment must be place on the load side (hot sequence) of self-contained meters. Installations with multiple meter positions exceeding 200 Amps are excluded from hot sequence metering.

Residential Service

As a general rule, each dwelling unit in a building that contains more than one residential dwelling unit will be separately metered. Inquiries regarding exception to this must

Non-Residential Service

As a general rule, each unit in a building that contains more than one non-residential (commercial) unit will be separately metered. Inquiries regarding application of this must be referred to NPU in advance of any project.

Meter Location

The location of all metering equipment must be approved by NPU / Building Department **prior to installation**. Meters shall be installed in safe and readily accessible outdoor locations when such a location is available.

Whenever it is necessary to install meters indoors, the location shall be chosen with regard to safety, accessibility for reading and maintenance. In general, the meter shall be installed on the ground floor. In certain cases, meters may be installed in groups, in rooms served for this purpose on other floors. Unmetered conductors supplying meters in separate meter room shall be installed in separate metallic conduit. Meters shall not be installed in storage rooms, cabinets, closets or other locations that may be locked or otherwise made inaccessible.

Meter Position

All meter mounting devices shall be installed so that the meters will be upright (plumb). They shall generally be installed with the top of the meter not less than 48 inches or more than 60 inches from the floor or final grade. Exceptions to this height requirements are for installation of group or modular metering, and transformer-rated overall meter enclosures.

Level grade shall be maintained for a minimum of 36 inches in front of the meter enclosure to provide a safe working space. In order to meet this requirement on uneven terrain, as an option, the customer may install a pressure treated wood platform. For module metering, refer to the Drawings section Drawing XXX-06.

Pole Mounted Meters

Pole mounted meters shall, generally, be installed on a customer owned service/meter pole. Refer to the Drawings section Drawing XXX-02 and XXX-05.

All pole mounted meter enclosures shall be grounded to a ground rod at the base of the pole. If a ground rod is already in place for grounding other equipment on the pole, a connection shall be made to it, otherwise a "supplementary" ground rod (5/8" x 8' min.) shall be installed for this purpose by the customer/electrician.

If a service disconnect is installed on this pole, the grounding must meet all requirements of Grounding and Bonding of this guide and NEC Article 250 for service entrance grounding.

The installation of a meter on an NPU pole requires advance approval from NPU and will only be allowed in special cases such as for CATV power supplies. The installation shall be made to minimize interference with climbing space, and conductors shall be enclosed in metallic conduit. Schedule 40 or 80 PVC may be used above the meter.

Meter Pedestals

Meter pedestals used with underground services for the exclusive use of electric metering and communication circuits must be approved in advance by NPU. Although a disconnect and overcurrent device (on the meter pedestal) may not be required (by the NEC) for all applications, it is highly recommended as it provides protection for the customer's cable and allows the customer to disconnect and maintain their conductors without the need of an NPU Line Department visit. Refer to Drawings section Drawings XXX-04 and XXX-05 for details of a pedestal service.

All pedestal mounted meter enclosures shall be grounded (at a minimum) to a "supplementary" ground rod (5/8" x 8' min.) installed by the customer/electrician. If a service disconnect is installed, then the grounding must meet all requirements of this guide and NEC Article 250 for service entrance grounding.

An NPU approved pre-wired combination meter socket and service disconnect pedestal may be used. It must include a stabilizing means to extend below the frost line (to a minimum of 48 inches below finish grade). The meter pedestal must be installed so that the top of the meter will not be more than 60 inches or less than 48 inches above the finished grade or ground line. Metered and unmetered conductors shall not be run in the same raceway or conduit. Refer to Drawings section Drawings XXX-04 and XXX-05 pre-wired pedestal requirements. Refer to the Service Entrance section of this guide for more information about requirements to mobile homes, manufactured homes, and travel trailers.

Multiconnection Points

Single terminals of meter sockets, or meter connection blocks, shall not be used as connection points for more than one conductor. Where multiple conductors are used, suitable terminal lugs that comply with the NEC and are acceptable to NPU shall be furnished and installed by the contractor. Stud type terminals are generally required to accommodate double (twin) lug arrangements.

Identification of Meters

Wherever there is more than one meter installed on any one premise, it shall be the customers' responsibility to clearly identify the area served by each meter. Each room or apartment number, floor or other area, shall be neatly and plainly marked on the service equipment and, if the meter and disconnect are not a single unit, on the inside and outside of the meter enclosure (not on the cover) with permanent marking. Other identifications, such as street address and service classifications (light, heat or power) when not readily obvious, shall also be provided. For sequence in multiple meter installations refer to Drawings section Drawing XXX-06. The customer shall notify NPU of any changes to avoid improper invoicing.

When such a situation arises, the owner of the premises is responsible for rectifying the condition as well as paying any time and material charges incurred by NPU in the process of rectifying the problem.

Meters will not be installed in multiple unit meter installations until all meter sockets have been permanently and precisely identified.

Clearance for Metering Equipment

Not less than 36 inches of clear, unobstructed working space shall be provided and maintained under and in front of all metering equipment in accordance with NEC Section 110.26. In the case of unguarded moving machinery, changes in floor level, etc., a clearance of 72 inches shall be provided in front of all meters. A clearance of at least six inches shall be provided between the nearest obstruction above and on each side of any single meter or group of meters.

In case space is limited where meters are mounted in a group, special layouts shall be obtained from NPU before proceeding with the installation of equipment. Sufficient clearance shall be provided in choosing the location of all metering equipment so that the doors of all cabinets and switches can be completely opened. For clearance requirements in multiple meter installations, see drawing section drawing XXX-06.

The National gas codes and standards (NFPA-54, NFPA-58 and 49 CFR 192) cover the requirements for gas equipment clearances. When locating or relocating electric service equipment, where gas equipment has already been installed, the following guidelines should be used to ensure compliance with the minimum separation required between the electric meter or combination meter/disconnect (ignition sources) and any gas relief valve, vent discharge, filling connection, or regulator vent:

Gas Container/System Type	Minimum Separation
Propane tank (exchanged)	5 feet
Propane Tank (filled on-site)	10 feet
Propane regulators	5 feet

Self-Contained Metering

General

Self-contained meters shall generally be used for the following services:

ingle-Phase:			
<u>VOLTS</u>	MAX. AMPS	WIRE	HOT/COLD SEQUENCE
120/240	400	3	Hot
120/208	200	3 (network meter)	Hot
Polyphase:			
<u>VOLTS</u>	MAX. AMPS	WIRE	HOT/COLD SEQUENCE
120/208	400	4 (4wire wye)	Hot
277/480	200	4 (4-wire wye)	Hot
	200 400		

Refer to Drawings section Drawing XXX-00 for meter socket connections.

Whenever connection of the grounding electrode conductor is made in the self-contained meter enclosure, it must be "connected to the grounded service conductor (neutral)" per NEC Section 250.24(A). The enclosure itself shall not be part of the grounding electrode conductor per NEC Sections 250.62 and 250.64.

For underground residential service installations, meter sockets for use with 4/0 or larger service cable shall be of the "side-wired" (or otherwise wired out away from the meter line side terminals) underground type. For non-residential underground application and for "continuous conduit systems," the "side-wired" socket is not required; however, it is highly recommended since the meter socket base is less likely to be damaged by frost action. Refer to the "Supplement" for meter socket requirements and options.

Meter By-Pass Requirements

All residential and non-residential 200-amp and 320-amp sockets require a lever bypass. This allows NPU to complete required testing and repair without interrupting service. There will still be times, for safety concerns, that an outage may have to occur however this requirement limits as many interruptions of service as possible.

Exemption of the by-pass and amperage requirements maybe utilized for:

- Temporary service
- Outdoor lighting (ball field, tennis court, etc.)
- CATV or telephone power supply/amplifier

Note: A by-pass is required for traffic signal light power supply services.

Maintenance and Repair of Meter Sockets

The customer is solely responsible for the maintenance and repair of the meter socket(s), which will necessitate the services of a certified licensed electrician. For the temporary disruption of electric service while repairs are being conducted, NPU must be notified.

Bonding of Meter Sockets

In the case of a ground-fault, service equipment and enclosures may be called upon to transport large fault currents. As a result, it is critical that meter sockets and metal conduits are properly connected to neutral and ground. Bonding must be done in compliance with NEC Article 250.

Moving and Removing Meters and Metering Equipment

The customer shall not tamper with or otherwise interfere with NPU meter(s) or other equipment's normal operation, or in any way interfere with the appropriate meter registration of the electric energy used. These are crimes that are punishable under the law. The meter(s) and/or meter seal shall be connected, disconnected, moved, or removed by authorized NPU employees(s) and/or licensed electricians who request prior approval to pull and set the meter.

Load Splitting

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Load splitting will not be permitted in order to avoid demand charges or to change the applicable rate schedule. This section applies to new services as well as changes to current services.

Instrument Transformer Metering

Current Transformers (CTs)

NPU must approve the use of CT cabinets in advance. Where CT cabinets are necessary, the customer is responsible for providing and installing them. CT cabinets must have an appropriate latch that NPU can padlock and seal, and they must be positioned next to the relevant meter socket(s). The working environment must be compliant with the NEC. A CT cabinet's maximum height from the floor to the top must not exceed seven feet.

The following services shall generally be arranged for metering with CTs only (no VTs):

Single-Phase: <u>VOLTS</u>	AMPS	WIRE	HOT/COLD SEQUENCE
120/240	>400	3	Hot
Polyphase: <u>VOLTS</u>	<u>AMPS</u>	<u>WIRE</u>	HOT/COLD SEQUENCE
120/208	>400	4 (4wire wye)	Hot
120/240	>400	4 (4-wire delta)	Hot

Current and Voltage Transformers (CTs & VTs)

Installations (except for "self-contained") where the voltage of the incoming line is greater than 277 volts to ground (on a grounded line) or greater than 480 volts between conductors (on an ungrounded line) shall generally be arranged for metering with both CTs and VTs.

Customers will not be allowed to connect any equipment to the metering terminals of instrument transformers.

Meter Mounting Devices (Transformer Rated)

The customer shall supply and install all meter mounting devices as required. Refer to Meter Mounting Equipment Requirements and Options section. All transformer-rated meter mounting devices shall have provisions for mounting a test switch.

Meter mounting devices shall be properly bonded and grounded, by the customer, in accordance with the Grounding and Bonding Section of this Guide and NEC Article 250. This generally requires connection to a grounding electrode with a grounding electrode conductor no smaller than No.4, stranded copper. Additionally, there must be appropriate bonding to provide an effective ground-fault current path to the (voltage) source neutral.

Meter mounting devices shall be located as near as possible to the instrument transformers at a location approved by NPU. They must not be in vaults. Prior NPU approval is required for any metering conduit runs in excess of 35 feet.

Where danger of plow or traffic damage exists, barriers consisting of concrete filled 6 inch IPS steel posts set a minimum of 48 inches deep must be installed for protection of the meter/meter mounting equipment. The posts shall be located so as not to interfere with the opening of doors/covers or restrict access to enclosures.

Instrument Transformer Cabinets

For installations where the service voltage does not exceed 480 volts, cabinets for instrument transformers shall be furnished by the customer and be constructed and installed to meet the requirements of NEC Article 312. Cabinet size will need NPU approval prior to installation.

All cabinets shall be constructed so that the cover can be readily opened. The cover shall be attached with hinges. The cabinet must be mounted so that the cover does not interfere with installation or maintenance work. For outdoor locations, cabinets shall be weatherproof or rain tight.

Provision must be made so that the cabinet can be securely sealed with a padlock type seal when the cover is closed. Only NPU owned devices may be installed in cabinets housing meter connection devices or instrument transformers.

NPU reserves the right to modify such enclosures or cabinets to add protective locking, or other devices.

CT only cabinets must be able to accommodate flat base Bar CT's with a height 5 inches, width of 3.5 inches, length of 12.25 inches and weight of 6.5 pounds.

All instrument transformer cabinets must be mounted on substantial wood backboards or contain suitable mounting provisions (inside) such that the instrument transformers can be readily installed and removed. Transformers shall be mounted so that a clearance of at least 2 inches is provided between all transformers, cables and the sides and top of the cabinet.

All line conductors, including the neutral, shall pass through the instrument transformer cabinet. In addition, all line conductors in the cabinet must be clearly identified (by the

customer/electrical), as to, "phase" and "line" or "load". A neutral connector shall be installed by the customer to provide for connection of the metering neutral. The customer shall mount all instrument transumers and make all primary connections. Secondary (metering) wires are furnished and installed by NPU.

A separate 1 ¼ inch minimum metallic conduit for metering wires between instrument transformer cabinets and meter mounting devices shall be furnished and installed by the customer. This should be either rigid metal conduit (RMC) or intermediate metal conduit (IMC) and be properly bonded to provide an effective ground-fault current path (per this guide and NEC Article 250). Advance approval must be obtained from NPU for special construction before installing conduit runs in excess of 35 feet.

Where danger of plow or traffic damage exists, barriers consisting of concrete filled 6inch IPS steel posts set a minimum of 48 inches deep must be installed for protection of the meter/meter mounting equipment. The posts shall be located so as not to interfere with the opening of doors/covers or restrict access to enclosures.

For locations where the service voltage exceeds 480 volts, prior NPU approval of the instrument transformer installation is required. This type of installation typically requires primary metering by NPU.

Mast or Building Mounted CT Installation

Mounting of CTs/VTs on the customer's service mast or on the building adjacent to the weatherhead is not permitted.

Note: Except for the case of primary metering, CTs shall not be mounted on poles or pole mounted brackets.

Padmount Transformer Installations

Provided there will be only **one customer** served from the padmount transformer, the CTs may be mounted inside the padmount transformer enclosure. VTs shall not be installed in the padmount transformer enclosure. The VTs may, with prior NPU approval, be installed in a separate weatherproof cabinet adjacent to the meter enclosure.

Switchgear Installations

When instrument transformers are to be installed in switchgear, prior NPU approval of transformer compartment plans is required.

Below are the requirements for switchgear instrument transformer compartments:

- "Hot sequence" metering is the standard arrangement.
- The compartment shall be isolated by barriers, and metered and unmetered busses shall be separated by barriers.
- Bus arrangements for low voltage (below 600V) shall accommodate 12-inch-long CT bars (multiple bars are ¹/₄" x 3" x 12").
- Units with voltage above 480 (phase-to-phase), shall have provisions for mounting VTs.
- Any removable or hinged covers over unmetered busses or connections shall have sealing provisions or approved tamper-proof fasteners.

Upon installation of the switchgear, any existing removable CT links/supports must be removed. For all switchgear or transclosure installations, it shall be the responsibility of the customer to install instrument transformers and make primary connections.

For an installation where the neutral conductor does not pass through the instrument transformer compartment, an insulated stranded copper neutral conductor, not smaller than #12 AWG, shall be brought into and connected to an insulated terminal in the instrument transformer compartment.

A 1 ¼ inch (minimum) metallic conduit, furnished and installed by the customer, shall be run continuously from the meter enclosure to the instrument transformer compartment. This conduit shall be either rigid metal conduit (RMC) or intermediate metal conduit (IMC) and be properly bonded to provide an effective ground-fault current path. See Grounding and Bonding in this Guide and NEC Article 250.

Note: the metering cable/conduit shall not pass thru any other vertical sections/compartments of the switchgear.

The mounting of NPU meters in switchgear is not recommended and generally will not be approved. Requests for special permission for such installations shall be accompanied by detailed plans showing arrangements of all cables, busses and other apparatus which are adjacent to the proposed meter locations.

All switchgear arrangement drawings must be submitted to NPU for approval prior to purchase and installation.

Meter Sockets and Installation

Meter Sockets

The customer is responsible for all meter sockets. A list of meter socket catalog numbers approved for the NPU system is located in Appendix B.

All meter sockets shall have an independent test laboratory listing agency label certifying compliance, UL label (listed). Any modifications of the meter socket will void the UL listing and manufacturer's warranty, making it non-approved metering equipment.

All meter sockets shall be ringless with a receiver bracket with a 7/16-inch or 9/16-inch knockout and a hasp provision for NPU meter seal. All self-contained meter sockets shall be compatible with Class 200 rated and 320 rated watt-hour meters.

A safety arc flash shield is required on all self-contained meter positions.

Meter sockets (Form 12S) for the use of three wire 120/208 volt must have a fifth jaw terminal located in the 9 o'clock position, connected to the neutral.

Hubs must be specified when required.

All self-contained meter sockets must be rated for 600 volts.

All self-contained meter sockets shall have a manual single handle lever operated bypass. When in its bypass position, the operating lever shall prevent the cover from being installed.

- 200 amp or less meter sockets may be supplied with non-clamping (Temporary/Outdoor Lighting/ CAT V/Telephone Installation)
- 200 amp and 320 amp must be supplied with clamping.

*****Horn-Type and Sliding-Type bypasses are not permitted*****

All self-contained meter sockets shall be compatible with Class 200 rated and 320 rated watt-hour meters.

Overhead type meter sockets shall have a hub opening at the top center of individual sockets, or at the top of the central wiring space of ganged meter sockets.

Underground meter socket types shall have correct knockout to accept the appropriate slip joint. The bottom left side knockout is for line conductors only. The bottom right side knockouts are for load conductors. All 320 amp meter sockets must have a 4 inch knockout. Bolted or lay-in type terminals and terminal blocks shall have a hex head or allen head terminal screws. 3/8 inch diameter stud terminals are required if parallel conductors are needed (two maximum). See Appendix C for guideline for typical underground meter socket connector accommodations.

Meter Sizes for Typical Installation

- One (1) position, single-phase, 200 and 320, 4 terminal socket.
- Two (2) through six (6), single-phase, 200 amp, 4 terminal socket.
- One (1) position, single-phase, 200 5 terminal sockets for 120/208 volts socket (5th terminal located in the 9 o'clock position).
- One (1) position, three-phase, 200 amp 7 terminal socket.

A main disconnect is required ahead of the meters for meter centers, or stacks, with more than six positions.

Installation Requirements

All residential meter sockets shall be installed as follows:

- Outdoors and mounted on in an exterior building wall but not under a carport, breezeway, patio, porch, or in any area that can be enclosed, or
- Outdoors in a meter pedestal or service entrance section, but not under a carport, breezeway, patio, porch, or in any area that can be enclosed, or
- In a room within the building, approved by NPU, for the location of electric meters, and with access only by a door opening to the outside of the building
- Depending on location, NPU may require a communication conduit to be installed to assist our Automatic Meter Infrastructure (AMI).

All group or modular metering shall be installed as follows:

- Outdoors and mounted on in an exterior building wall but not under a carport, breezeway, patio, porch, or in any area that can be enclosed, or
- In a room within the building, approved by NPU for the location of electric meters, and with access only by a door opening to the outside of the building.
- Depending on location, NPU may require a communication conduit to be installed to assist our AMI.
- Each meter position shall have an individual ringless cover. Design shall be as such that removal of the individual cover will expose the socket terminals.
- Unmetered compartments shall be sealable with padlock type seals.
- All outdoor units must be raintight.

- All group or modular metering arrangements require prior NPU approval before installation.
- All custom-built meter centers and switchgear with instrument transformer enclosure must have individual company approval prior to installation.
- Arrangement drawings must be submitted to NPU.
- All transformer-rated meter mounting devices must have provisions for mounting a test switch.

All commercial and industrial meter installations:

• Due to the complexity and variations of these installations, commercial and industrial meter installations are designed with input from NPU on a per-job basis.

Non-residential, non-commercial, non-industrial services that require a 120/240 Volt, 60 Amp service or less, are exempt from the lever bypass requirement.

Detach (Self-Supporting) Meter Mounting

Meter sockets may be mounted on separate self-supporting structures, such as for temporary construction services and mobile/modular homes (see Drawings section). When this is necessary, the minimum requirements shall be as follows:

- For mobile/modular homes or other overhead residential services, treated 4"x 6" posts set 36 inches deep minimum is required. For underground and/or temporary construction services, treated 4"x 4" posts will suffice.
- The post(s) or pole(s) shall be of appropriate height for NESC clearance and suitably braced in the direction of the service drop where the service is to be overhead.
- If two or more sockets are to be mounted, two posts shall be used with cross members of treated 2"x 4" lumber and/or 3/4" marine grade plywood, minimum. Cross members shall be spaced appropriately to attach meter sockets and conduit straps, see Drawings XXX-09 and XXX-05 for further details.

Drawings - on Subsequent Pages

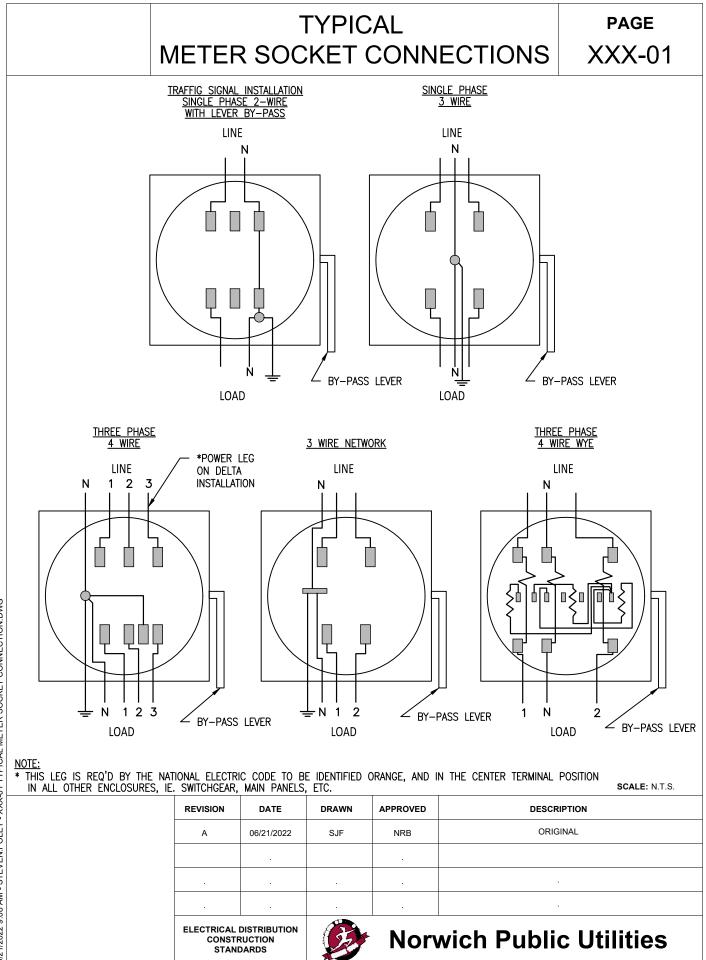
NPU METERING STANDARDS INDEX SHEET

NORWICH PUBLIC UTILITIES TYPICAL METERING STANDARDS SGC PROJECT NUMBER 1773001.04

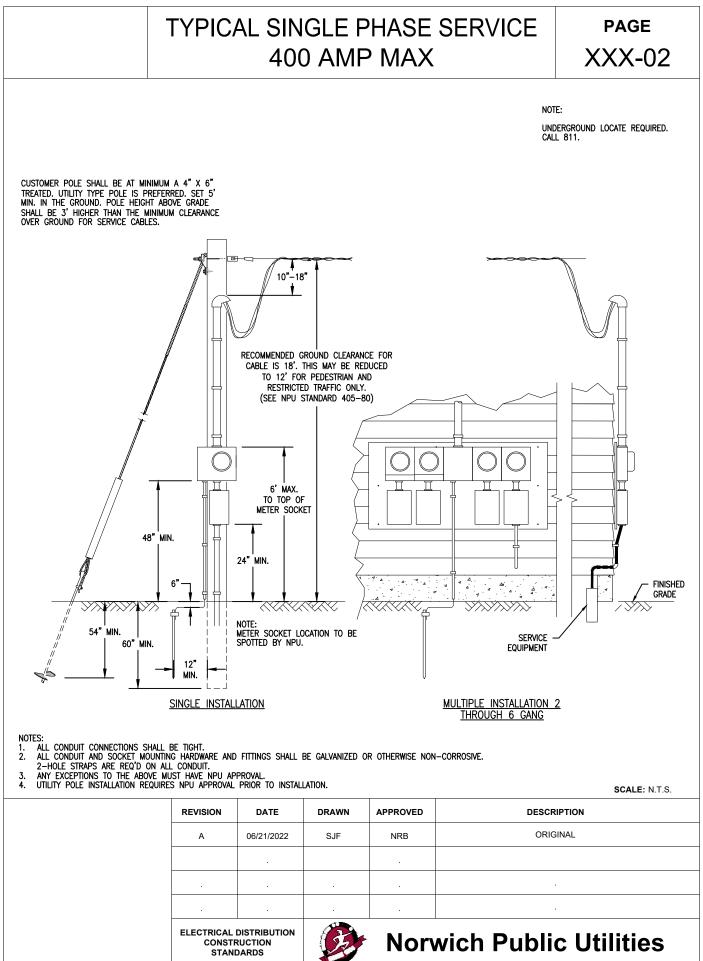
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XXX-00	SH.1 OF 1	DRAWING INDEX	Α	6/21/2022
XXX-01	SH.1 OF 1	TYPICAL METER SOCKET CONNECTION	Α	6/21/2022
XXX-02	SH.1 OF 1	TYPICAL OVERHEAD SERVICE - 400 AMP MAX.	Α	6/21/2022
XXX-03	SH.1 OF 1	TYPICAL UNDERGROUND SERVICE - 400 AMP MAX.	Α	6/21/2022
XXX-04	SH.1 OF 1	PEDESTAL MOUNTED METER - 400 AMP MAX.	Α	6/21/2022
XXX-05	SH.1 OF 1	PEDESTAL MOUNTED MULTIPLE METER SERVICE	Α	6/21/2022
XXX-06	SH.1 OF 1	MODULAR METERING - TYPICAL INSTALLATION	Α	6/21/2022
XXX-07	SH.1 OF 1	UNDERGROUND OUTDOOOR METER ENCLOSURE - SINGLE	A	6/21/2022
XXX-08	SH.1 OF 1	TEMPORARY OVERHEAD SERVICE	A	6/21/2022
XXX-09	SH.1 OF 1		A	6/21/2022

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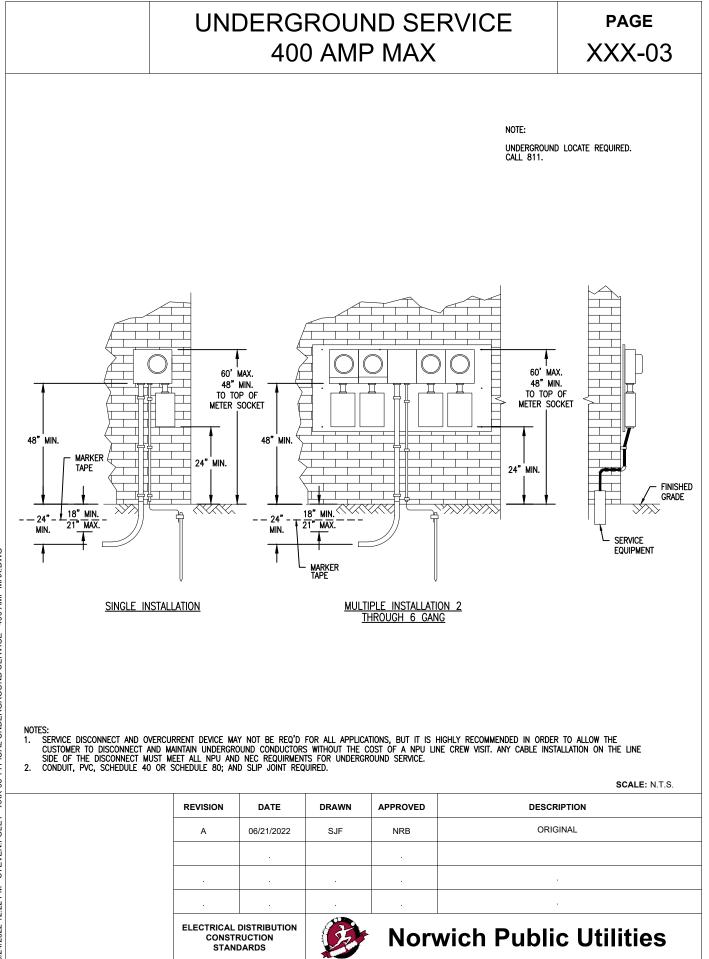
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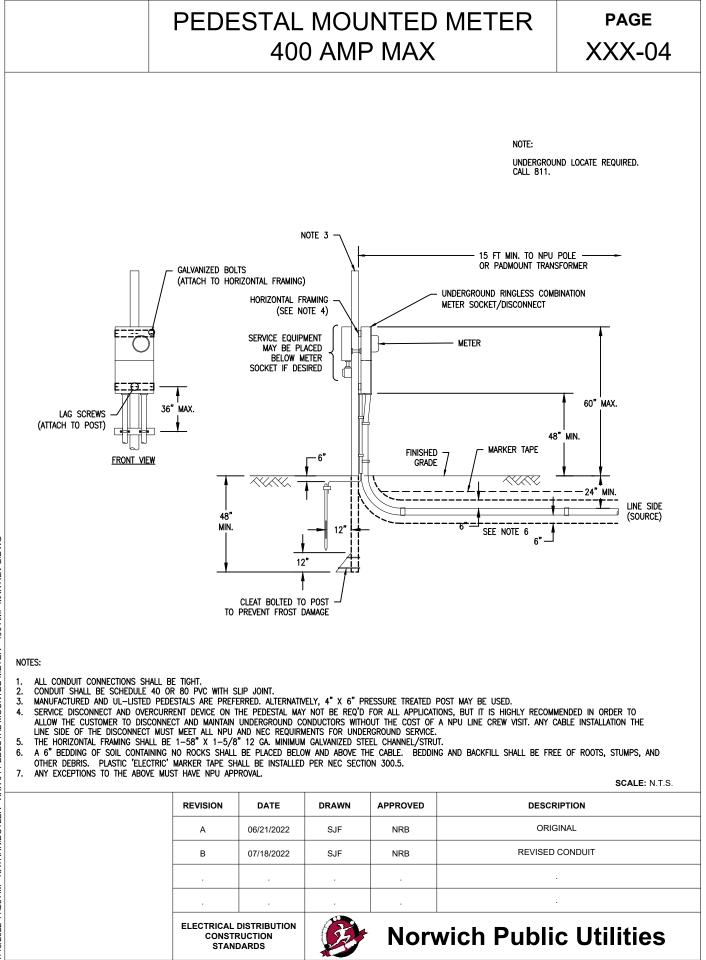
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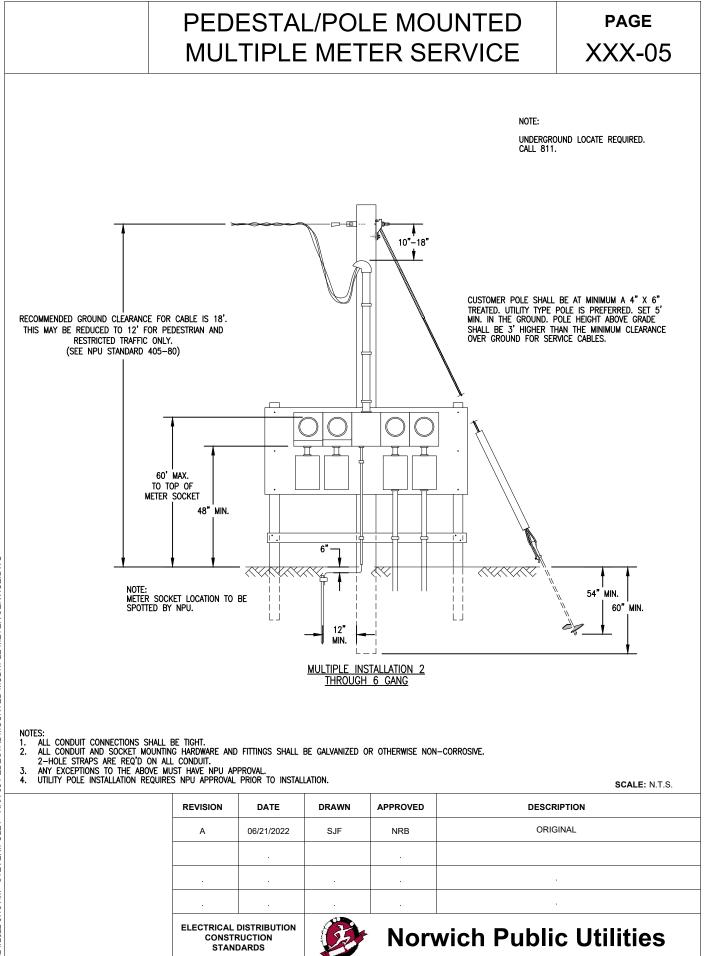


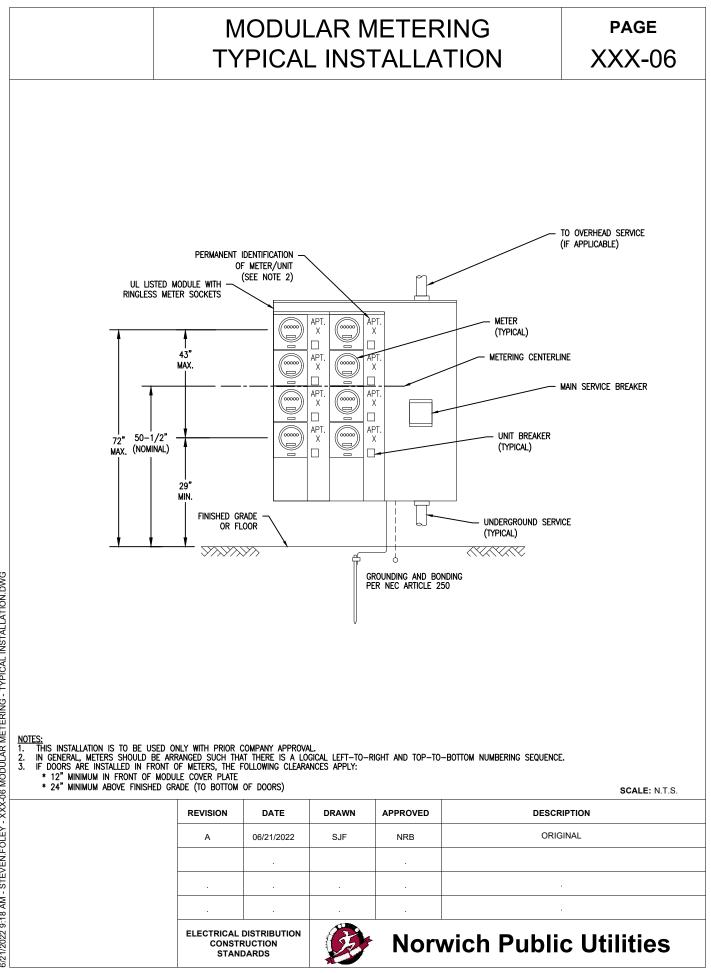
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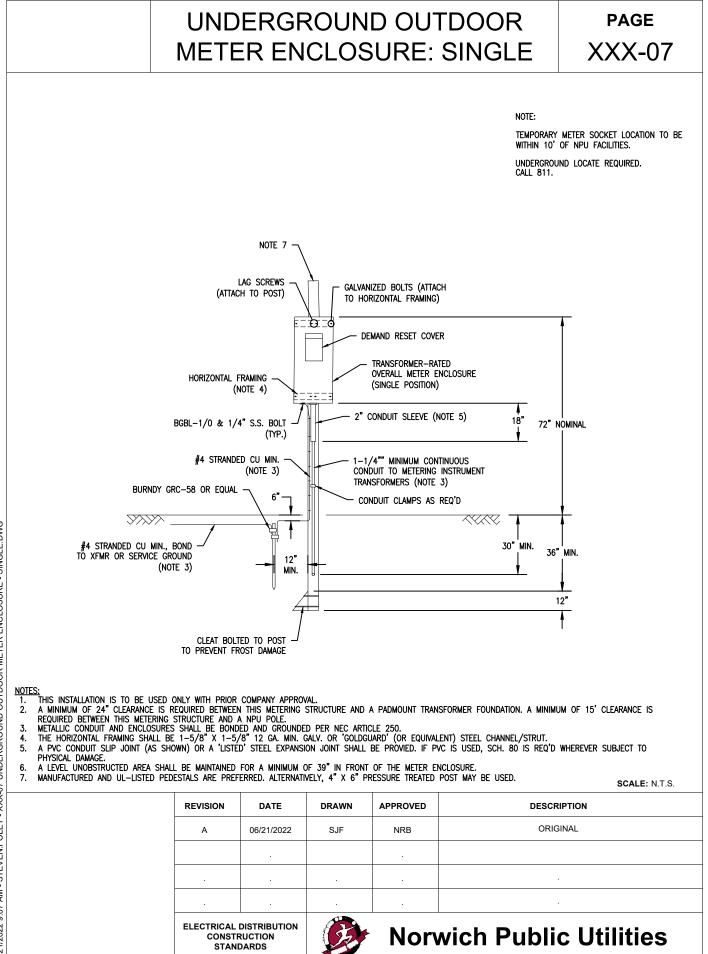
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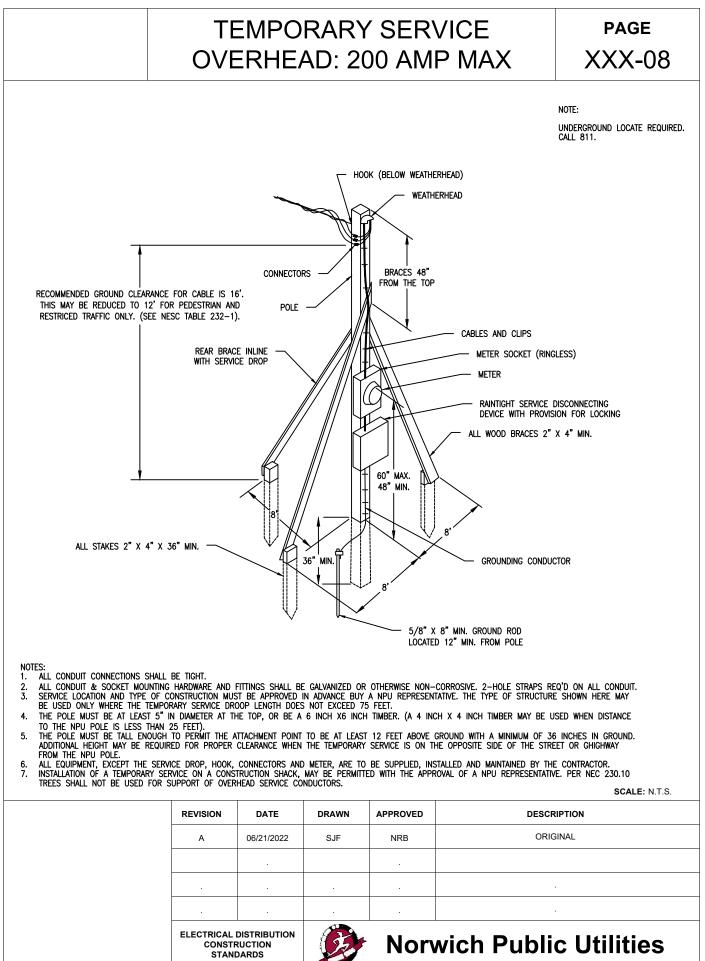






6/21/2022 9:18 AM - STEVEN FOLEY - XXX-06 MODULAR METERING - TYPICAL INSTALLATION.DWG





6/21/2022 9:13 AM - STEVEN.FOLEY - XXX-08 TEMPORARY OVERHEAD SERVICE.DWG

Appendix

Appendix A: Residential Cut and Reconnect Policy

1. Definitions

- **1.1.** Licensed Electrician A master electrician holding a valid E-1 license issued by the State of Connecticut Department of Consumer Protection Occupational and Professional Licensing Division. The licensed electrician is responsible for all work performed under this policy
- **1.2.** E2 License An E2 license allows the holder to perform electrical work under the employ of a licensed electrician.
- 1.3. E9 License An E9 license restricts the holder to residential and light commercial work only
- **1.4.** City of Norwich Building Official Duly appointed city official responsible for inspecting and ensuring that electrical work complies with local, state, and federal regulations.
- 2. Policy
 - **2.1.** Master electricians with an E1 license are allowed to perform cut and reconnects on overhead services if they have the proper permit for the work to be performed. All requirements of this policy must be adhered to. Violations of this policy may result in the revocation of an electrician's privilege to perform cut and reconnects.
 - **2.1.1.** Homeowners are not allowed to cut and reconnect electrical services, unless they hold a current E1 license.
 - **2.1.2.** If a permit has been issued to a homeowner, an electrician is not allowed to perform any electrical work, including cutting and/or reconnecting the service.
 - **2.1.3.** Underground service renewals require a request for NPU to disconnect the service at the pole. Please contact NPU at least 5 days in advance to request a disconnect. Failure to do so will result in a Same-Day Service charge being applied to the electrician.
 - **2.2.** The electrician performing the work shall contact NPU at least 5 days in advance of the work being performed. Failure to notify NPU in advance will result in NPU's Same Day Service charge being applied to the electrician.
 - **2.2.1.** The electrician is responsible for obtaining the appropriate permits from the City of Norwich Building Department in advance of starting work.

- **2.2.2.** Electrician will provide the permit number and their license number to NPU when requesting to disconnect or reconnect a service.
- 2.3. At the homeowner or electrician's request, NPU will disconnect and reconnect an electrical service during normal business hours (0730-1530 Monday-Friday) at no charge. Requests shall be made at least 5 days in advance of the work being performed. Failure to notify NPU in advance will result in NPU's Same Day Service charge being applied to the electrician or the homeowner. Requests for disconnects or reconnects outside of normal business hours will result in NPU's After Hours charge being applied to the electrician.
- 2.4. If an emergency arises outside of NPU or City of Norwich Building Department hours, NPU will disconnect and/or reconnect a service as required to allow for repair or replacement. However, the electrician must obtain a valid permit on the next business day as required by State of Connecticut Building Code, Section R105.2.1 Emergency Repairs. If the requested services are found to be supporting any work outside of emergency repairs, a Same Day Service charge will be applied to the homeowner or electrician.
- **2.5.** During the work, electricians shall perform the following:
 - **2.5.1.** Cut the service entrance cable at the point of attachment (weatherhead) on the line side of the existing service drop connectors.
 - 2.5.2. Repair or replace the service as required. If the point of attachment or number of meters is going to be changed or there are existing clearance conflicts, the electrician must receive NPU approval before starting work. Only NPU personnel are permitted to relocate service drops.
 - **2.5.3.** Ensure meters are reinstalled in the same service location from which they were removed.
 - **2.5.3.1.** Each meter and meter socket should be marked with the Unit ID (NOT customer name) for the location serviced prior to the start of any work.
 - **2.5.3.2.** For multiple meter installations, NPU must verify the meter installation after work is complete.
 - **2.5.4.** The service must be reconnected utilizing the properly sized connectors listed below:
 - Properly taped or bare Parallel Groove Connector
 - Properly taped or bare Pliers-applied Wedge Connector Neutral Conductor
 - **2.5.5.** All NPU, National Electric Code (NEC), State and City of Norwich building requirements must be met.
 - **2.5.6.** Obtain approval from the City of Norwich Building Department as soon as work is completed.

Appendix B: Approved Metering Equipment

Basic catalog numbers shown herein may have different or additional suffix number or letters indicating variations in hubs, addition of fifth terminal, and left or right wiring extension.

Similar style meter sockets will be accepted as long as they meet the meter socket criteria listed in this booklet.

Manufacturer	Туре	Catalog Number
Eaton / Cooper B-Line	OH	EN12L41GRST
	OH/UG	EN12L43GRST
Milbank	OH	U7021-RL-TG-BL
	OH	U7487-RL-TG
Square D	OH	UTRS202B
	OH/UG	UATRS213B
Ringless - 1Ø/3W - Single Po		
Manufacturer	Туре	Catalog Number
Eaton / Cooper B-Line	OH/UG	EL20L43GRST
	OH/UG	EL20L43GR2N
Milbank	OH	U9800-RRL-QG-BL-NE
	UG	U4721-O-BL
Square D	OH	UTH4203T
•	OH/UG	UTH4213T
Ringless - 1Ø/3W - Single Po	osition - 200 A - 5 Terminal	- Lever Bypass - 600 V
Manufacturer	Туре	Catalog Number
Eaton / Cooper B-Line	OH	EL20L41GR1N
	OH/UG	EL20L43GRST
Milbank	OH/UG	U9551-RXL-5T9-IL
Square D	OH	UTH5203T
	OH/UG	UTH5213T
****5th Terminal shall be in		
Ringless - 1Ø/3W - Single Po	sition - 320 A - 4 Terminal	
Eaton / Cooper B-Line	UG	EL32T44GRST
	OH/UG	EL32T45GR1N
	OH/UG	EL32T46GRST
Milbank	OH/UG	U2448-X
	OH	U1179-RRL-K3-K2
Square D	OH/UG	UTH4330T
Ringless - 1Ø/3W - Single Po	sition - 320 A - 5 Terminal	
Manufacturer	Туре	Catalog Number
Eaton / Cooper B-Line	UG	EL32T44GRST
	OH/UG	EL32T45GR1N
	OH/UG	EL32T46GRST
Milbank	OH/UG	U2448-X-5T9
	OH/UG	U4778-X-BL

Solver Control Severation 1000000000000000000000000000000000000	Square D	OH/UG	UTH5330T				
Ringless - 30/4W - Single Position - 200 A - 7 Terminal - Lever Bypass - 600 V Manufacturer Type Catalog Number Eaton / Cooper B-Line OH/UG EL20L73GRST Milbank UG U4910-O-BL Milbank UG U9701-RRL-BL Square D OH/UG U7701-RRL-BL Square D OH/UG U7701-RRL-BL Square D OH/UG U7701-RRL-BL Manufacturer Type Catalog Number Eaton / Cooper B-Line OH/UG EL32175GR1N Gator / Cooper B-Line OH/UG U9701-RRL-BL Milbank OH/UG U4911-X-QG-BL Square D OH/UG U2872-XT-ST9 Ringless - 10/3W - Two Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 V Manufacturer Type Catalog Number Eaton / Cooper B-Line OH/UG U2872-XT-ST9 Ringless - 10/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 V Manufacturer Type Catalog Number Eaton / Cooper B-Line OH/UG U2872-XT							
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OH U9701-RXL-QG OH/UG U9701-RXL-QG Square D OH/UG UTH7213T Ringless - 3Ø/4W - Single Position - 320 A - 7 Terminal - Lever Bypass - 600 V Manufacturer Eaton / Cooper B-Line OH/UG EL32T75GR1N Manufacturer Type Catalog Number Eaton / Cooper B-Line OH/UG EL32T76GRST Milbank OH/UG U4911-X-BL OH/UG U4911-X-QG-BL Square D OH UTH7300T Ringless - 1Ø/3W - Two Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 V Manufacturer Milbank OH/UG U2872-XT-5T9 Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 V Manufacturer Type Catalog Number Eaton / Cooper B-Line OH/UG U2872-XT-5T9 Ringless - 1Ø/3W - Four Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 V Manufacturer Type Catalog Number Eaton / Cooper B-Line OH/UG U2874-XT-5T9 Ringless - 1Ø/3W - Five Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 V Manufacturer	Milbank						
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Square D OH/UG UTH7213T Ingless - 3Ø/4W - Single Position - 320 A - 7 Terminal - Lever Bypass - 600 V Manufacturer Type Catalog Number Eaton / Cooper B-Line OH/UG EL32175GR1N OH/UG U4911-X-BL OH/UG U4911-X-BL OH/UG U4911-X-GBL Square D OH U7H7200T Ringless - 1Ø/3W - Two Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 V Manufacturer Type Catalog Number Eaton / Cooper B-Line OH/UG U2872-XT-ST9 Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 V Manufacturer Type Catalog Number Eaton / Cooper B-Line OH/UG U2872-XT-ST9 Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 V Manufacturer Type Catalog Number Eaton / Cooper B-Line OH/UG U2873-XT-ST9 Ringless - 1Ø/3W - Four Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 V Manufacturer Type Catalog Number Eaton / Cooper B-Line OH/UG U2874-XT-ST9 Ringless - 1Ø/3W - Four Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 V Manufacturer Type Catalog Number Eaton / Cooper B-L		OH/UG	,				
ManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGEL32T75GRNMilbankOH/UGU4911-X-BLMilbankOH/UGU4911-X-QG-BLSquare DOHUTHT300TRingless - 10/3W - Two Position - 200 A / 400 A Max - 4/5 TerminalLever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2872-XT-519Ningless - 10/3W - Three Positon - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2872-XT-519Ringless - 10/3W - Three Positon - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2873-XT-519Ringless - 10/3W - Four Position - 200 A / 400 A Max - 4/5 TerminalLever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2874-XT-519Ringless - 10/3W - Five Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2875-XT-519Ringless - 10/3W - Six Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2875-XT-519Ringless - 10/3W - Two Position - Socket/Breaker Combination 2/0 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VMan	Square D		UTH7213T				
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OH/UGEL32T76GRSTMilbankOH/UGU4911-X-BLOH/UGU4911-X-BLSquare DOHUTH7300TRingless - 1Ø/3W - Two Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2872-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2873-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max- 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2873-XT-5T9Ringless - 1Ø/3W - Four Position - 200 A / 400 A Max- 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2874-XT-5T9Ringless - 1Ø/3W - Five Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2875-XT-5T9Ringless - 10/3W - Five Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2876-XT-5T9Ringless - 10/3W - Six Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2876-XT-5T9NilbankOH/UGU2876-XT-5T9Ringless - 10/3W - Two Position - Socke							
MilbankOH/UGU4911-X-BLSquare DOHU7H7300TRingless - 1Ø/3W - Two Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGHEL20432CGR1NMilbankOH/UGU2872-XT-ST9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGHEL20433CGR1NMilbankOH/UGU2873-XT-ST9Ringless - 1Ø/3W - Four Position - 200 A / 400 A Max- 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGHEL20433CGR1NMilbankOH/UGManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGHEL20434CGR1NMilbankOH/UGMilbankOH/UGMilbankOH/UGMilbankOH/UGMilbankOH/UGMilbankOH/UGMilbankOH/UGU2875-XT-ST9Ringless - 1Ø/3W - Five Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2875-XT-ST9Ringless - 1Ø/3W - Six Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2876-XT-ST	Eaton / Cooper B-Line	OH/UG	EL32T75GR1N				
OH/UGU4911-X-QG-BLSquare DOHUTH7300TRingless - 1Ø/3W - Two Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerEaton / Cooper B-LineOH/UGHEL20432CGR1NMilbankOH/UGU2872-XT-ST9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerCatalog NumberCatalog NumberEaton / Cooper B-LineOH/UGU2873-XT-ST9NilbankOH/UGU2873-XT-ST9Ringless - 1Ø/3W - Four Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerMilbankOH/UGU2873-XT-ST9Ringless - 1Ø/3W - Four Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGHEL20434CGR1NMilbankOH/UGU2874-XT-ST9Ringless - 1Ø/3W - Five Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2875-XT-5T9Ringless - 1Ø/3W - Five Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2875-XT-5T9Ringless - 1Ø/3W - Six Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2876-XT-5T9****5th Terminal shall be in the 9:00 O'clock		OH/UG	EL32T76GRST				
Square DOHUTH7300TRingless - 1Ø/3W - Two Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeEaton / Cooper B-LineOH/UGHEL20432CGR1NMilbankOH/UGU2872-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGHUGU2873-XT-5T9Ringless - 1Ø/3W - Four Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2873-XT-5T9Ringless - 1Ø/3W - Four Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2874-XT-5T9Ringless - 1Ø/3W - Five Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2875-XT-5T9Ringless - 1Ø/3W - Six Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2876-XT-5T9Ringless - 1Ø/3W - Six Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2876-XT-5T9****5th Terminal shall be in the 9:00 O'clock position **** </td <td>Milbank</td> <td>OH/UG</td> <td>U4911-X-BL</td>	Milbank	OH/UG	U4911-X-BL				
Ringless - 10/3W - Two Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGHEL20432CGR1NMilbankOH/UGU2872-XT-5T9Ringless - 10/3W - Three Position - 200 A / 400 A Max- 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2873-XT-5T9Ringless - 10/3W - Four Position - 200 A / 400 A Max- 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2874-XT-5T9Ringless - 10/3W - Four Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2874-XT-5T9Ringless - 10/3W - Five Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerMilbankOH/UGU2875-XT-5T9Ringless - 10/3W - Five Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2875-XT-5T9Ringless - 10/3W - Six Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2876-XT-5T9****5th Terminal shall be in the 9:00 O'clock position ****Ringless - 10/3W - Two Position - Socket/Breaker Combination 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 V<		OH/UG	U4911-X-QG-BL				
ManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2872-XT-ST9MilbankOH/UGU2872-XT-ST9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max- 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2873-XT-ST9NilbankOH/UGU2873-XT-ST9Ringless - 1Ø/3W - Four Position - 200 A / 400 A Max- 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGHEL20434CGR1NMilbankOH/UGU2873-XT-ST9Ringless - 1Ø/3W - Five Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2875-XT-ST9NilbankOH/UGU2875-XT-ST9Ringless - 1Ø/3W - Five Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2875-XT-ST9Ningless - 1Ø/3W - Six Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2876-XT-ST9NilbankOH/UGU2876-XT-ST9Eaton / Cooper B-LineOH/UGU2876-XT-ST9NilbankOH/UGU2876-XT-ST9Singless - 1Ø/3W - Three Position - Socket/Breaker Combination 200 A / 400 A Max - 4/5 Terminal - Lever Bypass -	Square D	ОН	UTH7300T				
Eaton / Cooper B-LineOH/UGHEL20432CGR1NMilbankOH/UGU2872-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max- 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeEaton / Cooper B-LineOH/UGHEL20433CGR1NMilbankOH/UGMilbankOH/UGWanufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2873-XT-5T9Ringless - 1Ø/3W - Four Position - 200 A / 400 A Max- 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2874-XT-5T9Ringless - 1Ø/3W - Five Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2875-XT-5T9Ringless - 1Ø/3W - Six Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2875-XT-5T9Ringless - 1Ø/3W - Six Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2876-XT-5T9****5th Terminal shall be in the 9:00 O'clock position****Ringless - 1Ø/3W - Two Position - Socket/Breaker Combination 200 A / 400 A Max - 4/5 Terminal -Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGOH/UG <td>Ringless - 1Ø/3W - Two Position</td> <td>- 200 A / 400 A Max - 4/5 Termina</td> <td>ll - Lever Bypass - 600 V</td>	Ringless - 1Ø/3W - Two Position	- 200 A / 400 A Max - 4/5 Termina	ll - Lever Bypass - 600 V				
MilbankOH/UGU2872-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max- 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeEaton / Cooper B-LineOH/UGMilbankOH/UGWilbankOH/UGMinbankOH/UGManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGMilbankOH/UGMilbankOH/UGMilbankOH/UGMilbankOH/UGManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGManufacturerTypeCatalog NumberBingless - 1Ø/3W - Five Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2875-XT-5T9Ringless - 1Ø/3W - Six Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2876-XT-5T9Ringless - 1Ø/3W - Two Position - Socket/Breaker Combination 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2876-XT-5T9Ringless - 1Ø/3W - Two Position - Socket/Breaker Combination 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEa	Manufacturer	Туре	Catalog Number				
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ManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGHEL20433CGR1NMilbankOH/UGU2873-XT-5T9Ringless - 1Ø/3W - Four Position - 200 A / 400 A Max- 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2874-XT-5T9MilbankOH/UGU2874-XT-5T9Ringless - 1Ø/3W - Five Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2875-XT-5T9NilbankOH/UGU2875-XT-5T9Ringless - 1Ø/3W - Six Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2875-XT-5T9NilbankOH/UGU2876-XT-5T9Ringless - 1Ø/3W - Six Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2876-XT-5T9****5th Terminal shall be in the 9:00 O'clock position***Ringless - 1Ø/3W - Two Position - Socket/Breaker Combination 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU4372-XT-5T9NilbankOH/UGU4372-XT-5T9MilbankOH/UGU4372-XT-5T9MilbankOH/UGVELMP20433LGRST5K9MilbankOH/UGVELMP20433LGRST5K9 </td <td>Milbank</td> <td>OH/UG</td> <td>U2872-XT-5T9</td>	Milbank	OH/UG	U2872-XT-5T9				
Eaton / Cooper B-LineOH/UGHEL20433CGR1NMilbankOH/UGU2873-XT-5T9Ringless - 1Ø/3W - Four Position - 200 A / 400 A Max- 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2874-XT-5T9NilbankOH/UGU2874-XT-5T9Ringless - 1Ø/3W - Five Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2875-XT-5T9Ringless - 1Ø/3W - Six Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerMilbankOH/UGU2875-XT-5T9Ringless - 1Ø/3W - Six Position - 200 A / 600 A Max- 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2876-XT-5T9Ringless - 1Ø/3W - Six Position - 200 A / 600 A Max- 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2876-XT-5T9****5th Terminal shall be in the 9:00 O'clock position****Ringless - 1Ø/3W - Two Position - Socket/Breaker Combination 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU4372-XT-5T9MilbankOH/UGU4372-XT-5T9MilbankOH/UGU4372-XT-5T9MilbankOH/UGU4372-XT-5T9MilbankOH/UGVELMP20433LGRST5K9Milbank <td>Ringless - 1Ø/3W - Three Positio</td> <td>n - 200 A / 400 A Max- 4/5 Termina</td> <td>al - Lever Bypass - 600 V</td>	Ringless - 1Ø/3W - Three Positio	n - 200 A / 400 A Max- 4/5 Termina	al - Lever Bypass - 600 V				
Eaton / Cooper B-LineOH/UGHEL20433CGR1NMilbankOH/UGU2873-XT-5T9Ringless - 1Ø/3W - Four Position - 200 A / 400 A Max- 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeEaton / Cooper B-LineOH/UGMilbankOH/UGWilbankOH/UGWanufacturerTypeRingless - 1Ø/3W - Five Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2875-XT-5T9Ringless - 1Ø/3W - Six Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2875-XT-5T9Ringless - 1Ø/3W - Six Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2876-XT-5T9****5th Terminal shall be in the 9:00 O'clock position ****Ringless - 1Ø/3W - Two Position - Socket/Breaker Combination 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU4372-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU4372-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerType<	Manufacturer	Туре	Catalog Number				
Ringless - 1Ø/3W - Four Position - 200 A / 400 A Max- 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGHEL20434CGR1NMilbankOH/UGU2874-XT-5T9Ringless - 1Ø/3W - Five Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGHEL20435CGR1NMilbankOH/UGU2875-XT-5T9Ringless - 1Ø/3W - Six Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2875-XT-5T9Ringless - 1Ø/3W - Six Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2876-XT-5T9****5th Terminal shall be in the 9:00 O'clock position****NilbankRingless - 1Ø/3W - Two Position - Socket/Breaker Combination 200 A / 400 A Max - 4/5 Terminal -Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGVELMP20432LGRST5K9MilbankOH/UGU4372-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU4372-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerType	Eaton / Cooper B-Line		HEL20433CGR1N				
ManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGHEL20434CGR1NMilbankOH/UGU2874-XT-5T9Ringless - 1Ø/3W - Five Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGHEL20435CGR1NMilbankOH/UGU2875-XT-5T9Ringless - 1Ø/3W - Six Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2875-XT-5T9Ringless - 1Ø/3W - Six Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2876-XT-5T9Singless - 1Ø/3W - Two Position - Socket/Breaker Combination 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGVELMP20432LGRST5K9MilbankOH/UGU4372-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU4372-XT-5T9MilbankOH/UGU4372-XT-5T9MilbankOH/UGVELMP20433LGRST5K9MilbankOH/UGVELMP20433LGRST5K9MilbankOH/UGVELMP20433LGRST5K9	*	OH/UG	U2873-XT-5T9				
ManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGHEL20434CGR1NMilbankOH/UGU2874-XT-5T9Ringless - 1Ø/3W - Five Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGHEL20435CGR1NMilbankOH/UGU2875-XT-5T9Ringless - 1Ø/3W - Six Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2875-XT-5T9Ringless - 1Ø/3W - Six Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2876-XT-5T9Singless - 1Ø/3W - Two Position - Socket/Breaker Combination 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGVELMP20432LGRST5K9MilbankOH/UGU4372-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU4372-XT-5T9MilbankOH/UGU4372-XT-5T9MilbankOH/UGVELMP20433LGRST5K9MilbankOH/UGVELMP20433LGRST5K9MilbankOH/UGVELMP20433LGRST5K9							
Eaton / Cooper B-LineOH/UGHEL20434CGR1NMilbankOH/UGU2874-XT-5T9Ringless - 1Ø/3W - Five Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeEaton / Cooper B-LineOH/UGMilbankOH/UGWilbankOH/UGWilbankOH/UGWanufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGWilbankOH/UGWanufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGHEL20436CGR1NMilbankOH/UGWilbankOH/UGWilbankOH/UGWanufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGWilbankOH/UGWilbankOH/UGWilbankOH/UGWanufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGVELMP20432LGRST5K9MilbankOH/UGU4372-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU4372-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGVELMP20433LGRST5K9MilbankOH/UGVELMP20433LGRST5K9MilbankOH/UG <td< td=""><td></td><td></td><td></td></td<>							
MilbankOH/UGU2874-XT-5T9Ringless - 1Ø/3W - Five Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGHEL20435CGR1NMilbankOH/UGU2875-XT-5T9Ringless - 1Ø/3W - Six Position - 200 A / 600 A Max- 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGHEL20436CGR1NMilbankOH/UGU2876-XT-5T9Ringless - 1Ø/3W - Two Position - Socket/Breaker Combination 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VVManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU2876-XT-5T9****5th Terminal shall be in the 9:00 O'clock position****A/5000 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU4372-XT-5T9MilbankOH/UGU4372-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VVELMP20432LGRST5K9MilbankOH/UGU4372-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGVELMP20433LGRST5K9MilbankOH/UGVELMP20433LGRST5K9MilbankOH/UGVELMP20433LGRST5K9	Eaton / Cooper B-Line						
ManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGHEL20435CGR1NMilbankOH/UGU2875-XT-5T9Ringless - 1Ø/3W - Six Position - 200 A / 600 A Max- 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGHEL20436CGR1NMilbankOH/UGU2876-XT-5T9****5th Terminal shall be in the 9:00 O'clock position ****Ringless - 1Ø/3W - Two Position - Socket/Breaker Combination 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGVELMP20432LGRST5K9MilbankOH/UGU4372-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VU4372-XT-5T9ManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU4372-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerMilbankOH/UGU4372-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGVELMP20433LGRST5K9MilbankOH/UGVELMP20433LGRST5K9	*	OH/UG	U2874-XT-5T9				
ManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGHEL20435CGR1NMilbankOH/UGU2875-XT-5T9Ringless - 1Ø/3W - Six Position - 200 A / 600 A Max- 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGHEL20436CGR1NMilbankOH/UGU2876-XT-5T9****5th Terminal shall be in the 9:00 O'clock position ****Ringless - 1Ø/3W - Two Position - Socket/Breaker Combination 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGVELMP20432LGRST5K9MilbankOH/UGU4372-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VU4372-XT-5T9ManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU4372-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerMilbankOH/UGU4372-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGVELMP20433LGRST5K9MilbankOH/UGVELMP20433LGRST5K9	Ringless - 1Ø/3W - Five Position	- 200 A / 600 A Max - 4/5 Termina	l - Lever Bypass - 600 V				
Eaton / Cooper B-LineOH/UGHEL20435CGR1NMilbankOH/UGU2875-XT-5T9Ringless - 1Ø/3W - Six Position - 200 A / 600 A Max- 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGHEL20436CGR1NMilbankOH/UGU2876-XT-5T9****5th Terminal shall be in the 9:00 O'clock position****Ringless - 1Ø/3W - Two Position - Socket/Breaker Combination 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGVELMP20432LGRST5K9MilbankOH/UGU4372-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VVELMP20432LGRST5K9MilbankOH/UGU4372-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VLever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGVELMP20432LGRST5K9MilbankOH/UGVELMP20433LGRST5K9MilbankOH/UGVELMP20433LGRST5K9							
MilbankOH/UGU2875-XT-5T9Ringless - 1Ø/3W - Six Position - 200 A / 600 A Max- 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGHEL20436CGR1NMilbankOH/UGU2876-XT-5T9****5th Terminal shall be in the 9:00 O'clock position****Ringless - 1Ø/3W - Two Position -Socket/Breaker Combination 200 A / 400 A Max - 4/5 Terminal -Lever Bypass - 600 VSocket/Breaker Combination 200 A / 400 A Max - 4/5 Terminal -Lever Bypass - 600 VVELMP20432LGRST5K9MilbankOH/UGU4372-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal -Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGU4372-XT-5T9Mingless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal -Lever Bypass - 600 VManufacturerTypeCatalog NumberBingless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal -Lever Bypass - 600 VManufacturerTypeCatalog NumberBingless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal -Lever Bypass - 600 VManufacturerTypeCatalog NumberBingless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal -Lever Bypass - 600 VManufacturerTypeCatalog NumberBingless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal -Lever Bypass - 600 VMilbankOH/UGVELMP20433LGRST5K9	Eaton / Cooper B-Line						
ManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGHEL20436CGR1NMilbankOH/UGU2876-XT-5T9****5th Terminal shall be in the 9:00 O'clock position****Ringless - 1Ø/3W - Two Position - Socket/Breaker Combination 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGVELMP20432LGRST5K9MilbankOH/UGU4372-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGVELMP20432LGRST5K9MilbankOH/UGVELMP20433LGRST5K9Mingless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGVELMP20433LGRST5K9MilbankOH/UGU4373-XT-5T9	Milbank	OH/UG	U2875-XT-5T9				
Eaton / Cooper B-Line OH/UG HEL20436CGR1N Milbank OH/UG U2876-XT-5T9 ****5th Terminal shall be in the 9:00 O'clock position**** Ringless - 1Ø/3W - Two Position - Socket/Breaker Combination 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 V A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 V Manufacturer Type Catalog Number Eaton / Cooper B-Line OH/UG VELMP20432LGRST5K9 Milbank OH/UG U4372-XT-5T9 Ringless - 1Ø/3W - Three Positior - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 V Manufacturer Faton / Cooper B-Line OH/UG VELMP20433LGRST5K9 Milbank OH/UG VELMP20433LGRST5K9 Manufacturer Type Catalog Number Eaton / Cooper B-Line OH/UG VELMP20433LGRST5K9 Milbank OH/UG V4373-XT-5T9	Ringless - 1Ø/3W - Six Position -	200 A / 600 A Max- 4/5 Terminal ·	- Lever Bypass - 600 V				
Eaton / Cooper B-Line OH/UG HEL20436CGR1N Milbank OH/UG U2876-XT-5T9 ****5th Terminal shall be in the 9:00 O'clock position**** Ringless - 1Ø/3W - Two Position - Socket/Breaker Combination 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 V A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 V Manufacturer Type Catalog Number Eaton / Cooper B-Line OH/UG VELMP20432LGRST5K9 Milbank OH/UG U4372-XT-5T9 Ringless - 1Ø/3W - Three Positior - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 V Manufacturer Faton / Cooper B-Line OH/UG VELMP20433LGRST5K9 Milbank OH/UG VELMP20433LGRST5K9 Manufacturer Type Catalog Number Eaton / Cooper B-Line OH/UG VELMP20433LGRST5K9 Milbank OH/UG V4373-XT-5T9	Manufacturer	Туре	Catalog Number				
MilbankOH/UGU2876-XT-5T9****5th Terminal shall be in the 9:00 O'clock position****Ringless - 1Ø/3W - Two Position - Socket/Breaker Combination 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGVELMP20432LGRST5K9MilbankOH/UGU4372-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VVelter Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGVELMP20433LGRST5K9MilbankOH/UGVELMP20433LGRST5K9MilbankOH/UGVELMP20433LGRST5K9MilbankOH/UGU4373-XT-5T9							
Ringless - 1Ø/3W - Two Position - Socket/Breaker Combination 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGVELMP20432LGRST5K9MilbankOH/UGU4372-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGVELMP20433LGRST5K9MilbankOH/UGVELMP20433LGRST5K9MilbankOH/UGU4373-XT-5T9		OH/UG	U2876-XT-5T9				
Ringless - 1Ø/3W - Two Position - Socket/Breaker Combination 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGVELMP20432LGRST5K9MilbankOH/UGU4372-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max - 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGVELMP20433LGRST5K9MilbankOH/UGVELMP20433LGRST5K9MilbankOH/UGU4373-XT-5T9	****5th Ter	minal shall be in the 9:00 O'clock	position****				
ManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGVELMP20432LGRST5K9MilbankOH/UGU4372-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max- 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGVELMP20433LGRST5K9MilbankOH/UGVELMP20433LGRST5K9	-	- Socket/Breaker Combination 20	0 A / 400 A Max - 4/5 Terminal -				
Eaton / Cooper B-LineOH/UGVELMP20432LGRST5K9MilbankOH/UGU4372-XT-5T9Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max- 4/5 Terminal - Lever Bypass - 600 VManufacturerManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGVELMP20433LGRST5K9MilbankOH/UGU4373-XT-5T9		Туре	Catalog Number				
Milbank OH/UG U4372-XT-5T9 Ringless - 1Ø/3W - Three Position - 200 A / 400 A Max- 4/5 Terminal - Lever Bypass - 600 V Manufacturer Type Manufacturer Type Catalog Number Eaton / Cooper B-Line OH/UG VELMP20433LGRST5K9 Milbank OH/UG U4373-XT-5T9	Eaton / Cooper B-Line						
ManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGVELMP20433LGRST5K9MilbankOH/UGU4373-XT-5T9		OH/UG	U4372-XT-5T9				
ManufacturerTypeCatalog NumberEaton / Cooper B-LineOH/UGVELMP20433LGRST5K9MilbankOH/UGU4373-XT-5T9	Ringless - 1Ø/3W - Three Positio	n - 200 A / 400 A Max- 4/5 Termin;	al - Lever Bypass - 600 V				
Eaton / Cooper B-LineOH/UGVELMP20433LGRST5K9MilbankOH/UGU4373-XT-5T9			· · ·				
Milbank OH/UG U4373-XT-5T9							
	*						

Manufacturer	Туре	Catalog Number				
Eaton / Cooper B-Line	UG	VELMP20434LGRST5K9				
Milbank	UG	U4374-XT-5T9				
Ringless - 1Ø/3W - Five Position	Ringless - 1Ø/3W - Five Position - 200 A / 600 A Max - 4/5 Terminal - Lever Bypass - 600 V					
Manufacturer	Туре	Catalog Number				
Eaton / Cooper B-Line	UG	VELMP20435LGRST5K9				
Milbank	UG	U4375-XT-5T9				
Ringless - 1Ø/3W - Six Position	- 200 A / 600 A Max- 4/5 Terminal	- Lever Bypass - 600 V				
Manufacturer	Туре	Catalog Number				
Eaton / Cooper B-Line	UG	VELMP20436LGRST5K9				
Milbank	UG	U4376-XT-5T9				
****5th Te	rminal shall be in the 9:00 O'clock	position****				
Ringless - 3Ø/4W - Two Position	n - 200 A / 400 A Max - 7 Terminal	- Lever Bypass - 600 V				
Manufacturer	Туре	Catalog Number				
Eaton / Cooper B-Line	OH/UG	HEL20732CGR1N				
Milbank	OH/UG	U2732-XT				
	on - 200 A / 400 A Max - 7 Termina					
Manufacturer	Туре	Catalog Number				
Eaton / Cooper B-Line	OH/UG	HEL20733CGR1N				
Milbank	OH/UG	U2733-XT				
	n - 200 A / 400 A Max - 7 Terminal					
Manufacturer	Туре	Catalog Number				
Eaton / Cooper B-Line	OH/UG	HEL20734CGR1N				
Milbank	OH/UG	U2734-XT				
	n - 200 A / 600 A Max - 7 Terminal					
Manufacturer	Туре	Catalog Number				
Eaton / Cooper B-Line	OH/UG	HEL20735CGR1N				
Milbank	OH/UG	U2735-XT				
	- 200 A / 600 A Max- 7 Terminal - 1					
Manufacturer	Туре	Catalog Number				
Eaton / Cooper B-Line	OH/UG	HEL20736CGR1N				
Milbank	OH/UG	U2736-XT				
	on - Socket/Breaker Combination 20					
Bypass - 600 V						
Eaton / Cooper B-Line	OH/UG	ELCB20L24A5GR1N				
•	OH/UG	EL6C20L24A6GRST				
Milbank	OH/UG	U3791N-RXL-200-BL				
	on - Socket/Breaker Combination 32					
Bypass - 600 V						
Eaton / Cooper B-Line	UG	ELCB32C24A4GRST				
	OH/UG	ELCB32C24A5GR1N				
Milbank	OH/UG	U5890-X-2/200-BL				
Ringless - 3Ø/4W - Single Positi 600 V	on - Socket/Breaker Combination 20					
Eaton / Cooper B-Line	OH/UG	ELCB20L27A5GR1N				
Milbank	OH/UG	U5750-RXL-200-BL				
	on - Socket/Breaker Combination P					
Bypass - 600 V						
Milbank	UG	4322-O-BL				

Ringless - 1Ø/3W - Single Position - Socket/Breaker Combination Pedestal 200 A - 5 Terminal - Lever					
Bypass - 600 V					
Milbank	UG	4322-O-5T9			
****5th Terminal shall be in the 9:00 O'clock position****					
Ringless - 1Ø/3W - Two Position - Socket/Breaker Combination Pedestal 200 A - 4 Terminal - Lever					
Bypass - 600 V					
Milbank	UG	4323-O-BL			
Ringless - 1Ø/3W - Two Position - Socket/Breaker Combination Pedestal 200 A - 5 Terminal - Lever					
Bypass - 600 V					
Milbank	UG	4323-O-5T9			
****5th Terminal shall be in the 9:00 O'clock position****					

Appendix C: Guideline for Ty	pical Underground Meter Socket
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Socket Size	Connector Type	Maximum Wire Size	Lug option
100/125 Amp	Lay-In	2/0	
200 Amp	Lay-In	350	
320 Amp		350	Single (SM)
3/8" Stud		600	Single (LG)
		2 (350)	Twin (SM)
		2 (600)	Twin (LG)

Appendix D: Repair Rate for Damaged Meters (*as of April 2022, subject to change*)

Residential Meters				
	Class	1 st Time Damage	2 nd Time Damage	
	Form 2S, Class	\$180.00	\$270.00	
	200, 240 Volt			
	Type C2SXD			
	Form 12S, Class	\$237.00	\$355.50	
	200, 240 Volt			
	Type C2SXD			