

UNDERGROUND MISCELLANEOUS SECTION

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REV. 1 12-INDX.DOC

SRP PROPRIETARY MATERIAL - THIS MATERIAL IS BASED ON ASSUMPTIONS AND CRITERIA WHICH MAY NOT BE VALID OUTSIDE THE SRP ELECTRIC SYSTEM. FOR INTERNAL USE ONLY.

DES. ACF
DR. LFM
APP. DATE 12/20/94



ELECTRIC DISTRIBUTION
CONSTRUCTION STANDARDS

UNDERGROUND MISCELLANEOUS SECTION

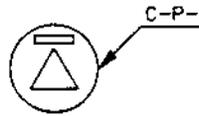
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EXPLANATION OF GRAPHIC SYMBOLS:

The Graphic Symbols and Definitions in this document represent facilities used in the SRP Distribution and Subtransmission systems and appear on SRP Mapping and Job Design products. The symbols appear in two categories:

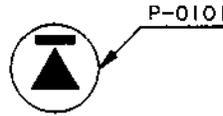
1. Proposed: Indicates a facility that is to be constructed and installed. In most cases, the prefix "C-" is placed in front of the facility annotation. A hollow bar indicates the direction of the opening for pad mounted equipment. The circle represents the pad the equipment is installed on.

EXAMPLE:
PAD MOUNTED TRANSFORMER



2. Existing: Indicates an existing facility. No prefix is used with the facility annotation. A solid bar is used to indicate direction of opening for pad mounted equipment.

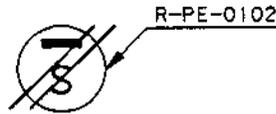
EXAMPLE:
PAD MOUNTED TRANSFORMER



Removing, Transferring or Abandoning a facility does not require additional symbols. However, the annotation and/or the Existing symbol is modified as follows:

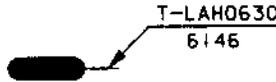
1. Removal: Parallel bars "//" are drawn over the Existing facility symbol and the prefix "R-" is placed in front of the facility annotation.

EXAMPLE:
PAD MOUNTED SWITCH



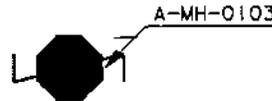
2. Transfer: The Existing facility symbol is not modified. The prefix "T-" is placed in front of the facility annotation.

EXAMPLE:
STREET LIGHT LUMINAIRE
& MAST ARM



3. Abandon: An elongated reverse "N" is drawn over the Existing facility symbol and the prefix "A-" is placed in front of the facility annotation.

EXAMPLE:
MANHOLE



Unless otherwise noted:

- Pad, Light, Vault or Manhole Number will be annotated.
- Symbol Size = 11/32".
- Pad Number Prefix indicates if equipment is Dead Front (PD) or Live Front (PE).

REV. 4 COMPLETELY REVISED 4/15/93.

SRP PROPRIETARY MATERIAL - THIS MATERIAL IS BASED ON ASSUMPTIONS AND CRITERIA WHICH MAY NOT BE VALID OUTSIDE THE SRP ELECTRIC SYSTEM. FOR INTERNAL USE ONLY.

DES. RAL
 DR. BEB
 APP. *ccpk*
 DATE 1/15/87



ELECTRIC DISTRIBUTION
CONSTRUCTION STANDARDS

UNDERGROUND LOCATION DESIGN SYMBOLS

I. TRANSFORMER:

A device that transforms alternating current of one voltage to an alternating current of another voltage.

FUTURE TRANSFORMER LOCATION:

An easement that has been acquired for a future transformer installation.

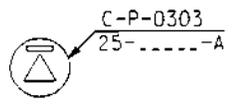
FUTURE PAD MOUNTED TRANSFORMER:

A concrete pad placed for a future transformer installation.

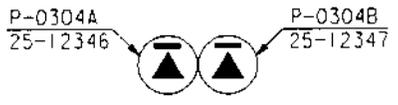
SRP OWNED: owned and maintained by the Salt River Project

Each SRP Owned Transformer installation shall include kVA, Phase if 1 ϕ , SRP Number (shown on arrow leader) and Secondary Voltage, if other than 120/240V.

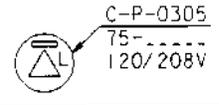
EXAMPLES: 1. Proposed 1 ϕ



2. Existing 3 ϕ Bank



3. Proposed 3 ϕ



EQUIPMENT/DEVICE	PROPOSED	EXISTING
1 ϕ Pad Mounted		
3 ϕ Bank - Two single phase, pad mounted, Interconnected for 120/240V (open delta), 1 ϕ & 3 ϕ		
3 ϕ Bank - Three single phase, pad mounted, Interconnected for 120/240V, 1 ϕ & 3 ϕ		
3 ϕ Pad Mounted, Radial Feed		
3 ϕ Pad Mounted, Loop-thru		
Future Transformer Location <ul style="list-style-type: none"> "Future" annotated 		N/A
Future Pad Mounted Transformer <ul style="list-style-type: none"> P number assigned when transformer is installed "Future" annotated "Transformer" annotated Planned kVA annotated 		

FOREIGN OWNED: owned and maintained by another electric utility

CUSTOMER OWNED: owned by an SRP customer and located on the customer's property

EXAMPLE: 3 ϕ Customer Owned



Each Customer Owned Transformer is annotated with Ownership, Source Load SRP Number, Total Load Information (either kVA or HP), Secondary Voltage (if other than 120/240V) and Phase if 1 ϕ . No arrow leader used.

EQUIPMENT/DEVICE	PROPOSED	EXISTING
1 ϕ Pad Mounted		
3 ϕ Bank - Two single phase, pad mounted		
3 ϕ Bank - Three single phase, pad mounted		
3 ϕ Pad Mounted		

SRP PROPRIETARY MATERIAL - THIS MATERIAL IS BASED ON ASSUMPTIONS AND CRITERIA WHICH MAY NOT BE VALID OUTSIDE THE SRP ELECTRIC SYSTEM. FOR INTERNAL USE ONLY.

**UNDERGROUND LOCATION
DESIGN SYMBOLS**

12-101

**ELECTRIC DISTRIBUTION
CONSTRUCTION STANDARDS**

DES. RAL/JRC/ACE
DR. BEB
APP. 2/82
DATE 11/11/88

8513E194

REV. 5
 DES. RAL/ACF/WEL
 DR. BEB
 APP. 2/22
 DATE 3/06/90
 ADDED SYMBOLS FOR REMOTE-CONTROLLED SWITCHES, REMOVED PROPOSED BLADE DISCONNECT SWITCH SYMBOL 12/30/94.

FUTURE PAD MOUNTED EQUIPMENT:

A concrete pad placed for future installation of pad mounted equipment, except for capacitor banks and transformers.

EQUIPMENT/DEVICE

Future Pad Mounted Equipment
 • "Future" annotated
 • Planned equipment annotated (e.g. Primary Tap, Switch, Sectionalizer, Recloser, Fuse, Feeder Pulling, etc.)

PROPOSED



EXISTING



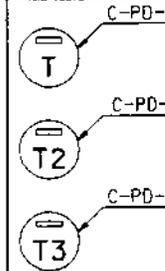
II. PAD MOUNTED PRIMARY TAP:

A location where primary conductors are mechanically and electrically connected together in an enclosure.

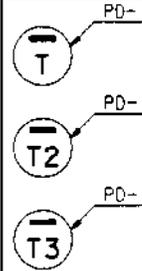
EQUIPMENT/DEVICE

1 ϕ Primary Tap
 2 ϕ Primary Tap
 3 ϕ 4/0 Primary Tap

PROPOSED



EXISTING



III. PAD MOUNTED SWITCH:

A device that controls the flow of electric power and is installed in an enclosure. When the switch device is open, the power flow is interrupted. When it is closed, the power flow continues.

EQUIPMENT/DEVICE

Blade Disconnect
 • Current Rating in Amps "A" and "BDS" annotated

Gang Operated
 • Current Rating in Amps "A" & "GOS" annotated ("ISO" if ISO Gensor)
 • Switch Code annotated if not Air Break (e.g. "VAC" = Vacuum Break, "OIL" = Oil Break)

Gang Operated, Remote Controlled
 • Current Rating in Amps "A" & "GOS" annotated
 • Switch Code annotated if not Air Break (e.g. "VAC" = Vacuum Break, "OIL" = Oil Break)

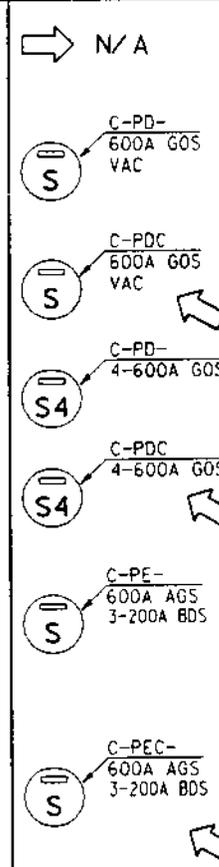
Gang Operated, 4-Way
 • Quantity, Current Rating in Amps "A" and "GOS" annotated

Gang Operated, 4-Way, Remote Controlled
 • Quantity, Current Rating in Amps "A" and "GOS" annotated
 • One or Two Ways Remote Controlled, as designated on Schematic

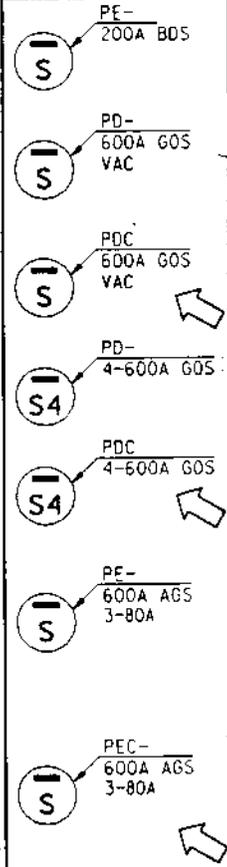
Gang Operated, Automatic Throw with Blades and/or Fuses
 • Current Rating in Amps "A" and "AGS" annotated
 • Number of blade disconnects, Ampacity "A" and "BDS" annotated (Automatic Throw with Blades) - OR -
 • Number of fuses and Fuse Amp "A" Rating annotated (Automatic Throw with Fuses)

Gang Operated, Remote Control, Auto Throw w/Blades &/or Fuses
 • Current Rating in Amps "A" and "AGS" annotated
 • Number of blade disconnects, Ampacity "A" and "BDS" annotated (Automatic Throw with Blades) - OR -
 • Number of fuses and Fuse Amp "A" Rating annotated (Automatic Throw with Fuses)

PROPOSED



EXISTING



**ELECTRIC DISTRIBUTION
 CONSTRUCTION STANDARDS**

**UNDERGROUND LOCATION
 DESIGN SYMBOLS**

12-102

REV. 4 MOVED SECTIONS VIII & IX TO PAGE 12-104. ADDED SECTIONALIZER DEFINITION & VACUUM INTERRUPTER SWITCH FROM PAGE 12-102 11/30/94.

PAD MOUNTED SWITCH (cont'd):		
EQUIPMENT/DEVICE	PROPOSED	EXISTING
Gang Operated (Oil) with Vacuum Interrupter <ul style="list-style-type: none"> Quantity, Current Rating in Amps "A", "GOS" & "OIL" (type) annotated Quantity, Current Rating in Amps "A", & "VAC" Interrupter Type annotated 		

IV. SECTIONALIZER AND RECLOSER:

PAD MOUNTED SECTIONALIZER:
 A type of switch, installed in an enclosure, designed to work in conjunction with a reclosing device. It will isolate a faulted section of distribution line by opening when the recloser has the line de-energized after a predetermined number of recloser operations. This allows the recloser to close and energize the unfaulted sections of line.

PAD MOUNTED RECLOSER:
 A type of switch, installed in an enclosure, designed to interrupt and reclose a circuit automatically when a line fault occurs. It will de-energize (open) and re-energize (close) the circuit a predetermined number of times to allow a temporary fault to clear. If the fault does not clear, the Recloser de-energizes the line and remains open until it is reset.

EQUIPMENT/DEVICE	PROPOSED	EXISTING
Sectionalizer <ul style="list-style-type: none"> Current Rating in Amps "A" annotated 		
Recloser <ul style="list-style-type: none"> Current Rating in Amps "A" annotated 		

V. PAD MOUNTED CAPACITOR BANK:
 An electrical device, installed in an enclosure, that increases the Power Factor by reducing the lagging voltage in each of the phases of a circuit.

FUTURE PAD MOUNTED CAPACITOR BANK:
 The location of a concrete pad placed for future installation of a capacitor bank.

EQUIPMENT/DEVICE	PROPOSED	EXISTING
Capacitor Bank <ul style="list-style-type: none"> kVAR Rating and Control Type annotated 		
Capacitor Bank (Future) <ul style="list-style-type: none"> "FUTURE" annotated 		

VI. PAD MOUNTED PRIMARY METER:
 A metering device, installed in an enclosure, that measures and records customer power usage at a delivery voltage exceeding 600 volts.

EQUIPMENT/DEVICE	PROPOSED	EXISTING
Primary Meter "PM" <ul style="list-style-type: none"> Source Load Number annotated Total Load in kVA or horsepower "HP" annotated 		

VII. PAD MOUNTED FUSE:
 A fusing device installed in an enclosure. Also referred to as a Fusing Cubicle.

EQUIPMENT/DEVICE	PROPOSED	EXISTING
Pad Mounted Fuse		

UNDERGROUND LOCATION DESIGN SYMBOLS		DR. BEB APP. BEB DATE 3/06/90	DES. RAL/JRC/WEL
	ELECTRIC DISTRIBUTION CONSTRUCTION STANDARDS		
12-103			

8513E194

REVISED SECTION VIII (PREVIOUSLY ON PAGE 12-103); MOVED SECTIONS XII & XIII TO 12-105 12/15/94.

VIII. PULLING ENCLOSURE: ←

⇒ An enclosure that allows for termination of a single phase or three phase circuit in and out and is used in place of a Pull Box in a conduit system.

EQUIPMENT/DEVICE	PROPOSED	EXISTING
⇒ Single Phase Primary Enclosure		
⇒ Three Phase Primary Enclosure (any Phase)		
⇒ Pulling Enclosure for Future Transformers		

IX. ENCLOSURE:

A steel cabinet, mounted on a concrete pad, used to cover and protect electrical equipment.

NOTE 1: The "E" in the enclosure symbol is replaced with the appropriate character/symbol for installed equipment in the enclosure.

NOTE 2: Multiple equipment installations will show one character or symbol within the circle to represent the most critical piece of equipment in the enclosure. Attributes of the most critical piece, plus all other equipment, will be listed below the enclosure dimension text in the equipment order shown:

- A) Switches
- B) Transformers
- C) Fuses
- D) Primary Meters
- E) Capacitor Banks
- F) Primary Tap Enclosures
- G) Feeder Pulling Enclosures

EQUIPMENT/DEVICE	PROPOSED	EXISTING
Enclosure • Unit Dimensions and Unit Quantity () annotated		

X. VAULT:

An area (room) specifically used to house transformers (usually SRP's), conductors and other electric equipment. A Customer Owned Vault is the Point of Delivery for service. For those facilities in the vault, annotate the appropriate text below the leader line.

EXAMPLES

- Three Pole-Type Transformers in a Vault:
 - BV-0921
 - 150-54321-A
 - 150-54320-B
 - 150-54322-C
 - 277/480V
- Gang Operated ISO Quensor Switch in a Vault:
 - BV-0921
 - 600A 60S
 - 150

EQUIPMENT/DEVICE	PROPOSED	EXISTING
Vault "V" or Buried Vault "BV" • Symbol size: 1/8" • Vault Equipment annotated (see examples above)		

XI. MANHOLE:

An underground structure made of concrete that provides a room where conductors can be accessed for splicing/grounding, or a pulling location for conductor replacement. An access shaft is provided from grade into the manhole.

EQUIPMENT/DEVICE	PROPOSED	EXISTING
Manhole "MH" • Manhole Shape annotated		
Manhole (Customer Owned) • Ownership (if known) or "CO" annotated (above leader line) • Manhole Shape (if known) annotated		

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DES. RAL/JRC/WEL
DR. BEB
APP. 3/7/90
DATE



UNDERGROUND LOCATION DESIGN SYMBOLS

REV. 2 ADDED SECTIONS VII & VIII FROM 12-104 MOVED TRENCH & CONDUCTOR ROUTE DEFINITIONS TO 12-106 11/30/94 8513E194

XII. PULLBOX:

An underground box, usually made of concrete, installed in conduit systems, used to house underground primary conductors with splices.

EQUIPMENT/DEVICE	Symbol size for this section: 7/32"	PROPOSED	EXISTING
Pullbox, Buried			
Pullbox, Flush			

XIII. DOGHOUSE: (Also referred to as CABLE ENCLOSURE)

A buried, open-bottomed fiberglass box used in underground distribution to house and protect primary conductors for future installation into a pad mounted transformer.

EQUIPMENT/DEVICE	Symbol size: 1/4" in height	PROPOSED	EXISTING
Doghouse	• Planned kVA & phase annotated	N/A	

XIV. JUNCTION BOX:

An underground box that houses the connection point for underground secondary and service conductors. Also referred to as a J-Box.

EQUIPMENT/DEVICE	Symbol size for this section: 1/8" width x 3/32" height	PROPOSED	EXISTING
Junction Box			
Junction Box (Customer Owned)			

XV. CONDUIT:

A buried circular raceway (sleeve or duct) in which underground conductors are installed.

CONDUIT CHANGE:

A picture used to mark the point in a conduit run where the number, size or encasement of the conduit change.

DUCT BANK:

A multiple conduit structure installed in a trench.

ENCASED DUCT BANK:

A duct bank encased in concrete.

CASING:

A tubular steel pipe, installed with an auger bore, used to provide a tunnel under areas where a trench cannot be dug (such as canals and highways).

EQUIPMENT/DEVICE	PROPOSED	EXISTING
Primary or Secondary Conduit • Use Compatible Unit Code	C-UK32 -- K --	UK32 -- K --
Primary or Secondary Conduit, Encased	C-UK33E -- KE --	UK33E -- KE --
Conduit Change • Non-encased to Encased Conduit	C-UK33 C-UK33E -- K / KE --	UK33 UK33E -- K / KE --
Conduit Sleeve with Electronic Markers	C-UK23 EM [K] EM	UK23 EM [K] EM
Service Conduit • Use Compatible Unit Code	C-USK25 -- K --	USK25 -- K --
Service Conduit, Encased • No "E" used on Compatible Unit Service Conduit Code	C-USK25 -- KE --	USK25 -- KE --
Casing • Use Compatible Unit Code	C-UTH18 -- K --	UTH18 -- K --

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**UNDERGROUND LOCATION
DESIGN SYMBOLS**



ELECTRIC DISTRIBUTION
CONSTRUCTION STANDARDS

DES. RAL/JRC
DR. BEB
APP. 2/22
DATE 6/14/90

12-105

8513E194
 11/30/94.
 12-105
 REV. 4
 DES. RAL/JRC/ACF
 DR. BEB
 APP. 2/72
 DATE 6/17/90

XVI. TRENCH AND CONDUCTOR ROUTE:

TRENCH ROUTE:

The proposed path that u.g. electrical conductors, conduits or communication conductors will follow.

TRENCH CONFIGURATION:

A symbol, annotated with "alpha" characters, used on design drawings to indicate the trench shape.

TRENCH DEPTH:

The distance in feet and/or inches from the bottom of an excavation to finished grade.

CONDUCTOR ROUTE:

The existing geographic path the primary conductors follow.

ABANDONED CONDUCTOR ROUTE:

A symbol used to denote underground conductor that can no longer be used to conduct power.

PRIMARY ROUTE INFORMATION:

An attribute used to capture and summarize information about primary conductors. It generates the Primary Conductor Index on the Underground Location Map.

TRENCH OR CONDUCTOR ROUTE CHANGE ARROW:

The picture used to mark the point in a trench where the trench configuration or conductor route changes.

EQUIPMENT/DEVICE	PROPOSED	EXISTING
Trench Route • Recommended line weight: 9mm • Computer line weight 3, line style 3	-----	N/A
Conduit Bank and/or Trench Configuration Marker • Alpha character inside box annotated		N/A
Trench Depth • Depth from Surface annotated		
Conductor Route • Recommended line weight: 9mm • Computer line weight 3	N/A	_____

XVII. CONDUCTOR:

SECONDARY CONDUCTOR:

A conductor intended to serve power from the low voltage side of the transformer to more than one point of delivery.

STREET LIGHT CONDUCTOR:

A portion of conductor which runs from a distribution transformer, secondary device or secondary conductor to a point of delivery for street lights.

DUSK-TO-DAWN LIGHT CONDUCTOR:

A portion of conductor which runs from a distribution transformer, secondary device or secondary conductor to a point of delivery for dusk-to-dawn lights.

SERVICE CONDUCTOR:

A portion of conductor which runs from a distribution transformer, secondary device or secondary conductor to a single point of delivery (an electric meter or service entrance).

COMMUNICATION CABLE:

A cable (either accessory communication cable or WJA control cable) used by SRP to transmit signals and to control various equipment and devices. Sometimes referred to as Pilot Wire.

EQUIPMENT/DEVICE	PROPOSED	EXISTING
Secondary Conductor *	C-UTX40 -----	UTX40 -----
Street Light/Dusk-to-Dawn Conductor *	C-UTX8L +++++	UTX8L +++++
Service Conductor *	C-US10X -----	US10X -----
Communication Cable *	C-UKC25 -----	UKC25 -----

* Recommended line weight: 5mm; Computer Line Weight 1; Use Compatible Unit Code.

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ELECTRIC DISTRIBUTION
CONSTRUCTION STANDARDS

**UNDERGROUND LOCATION
DESIGN SYMBOLS**

12-106

XVIII. STREET LIGHT/DUSK-TO-DAWN LIGHT:

STREET LIGHT LUMINAIRE AND MAST ARM:
 The support (mast arm), fixture (luminaire or head), lamp and photoelectric relay (photo cell) which is affixed to a light pole, pole or pole structure to provide lighting.

LIGHT POLE:
 A pole used solely to support a luminaire, mast arm and/or street light secondary conductor.

DUSK-TO-DAWN LUMINAIRE:
 The fixture, lamp & photoelectric relay which is affixed to a light pole, pole or pole structure.

EQUIPMENT/DEVICE	PROPOSED	EXISTING
Street Light Luminaire and Mast Arm *	C-LAH0630 6146	LAH0630 6146
Street Light Luminaire and Mast Arm on a Light Pole *	C-LAH3130 6146	LAH3130 6146
Two (2) Street Light luminaires and Mast Arms on a Light Pole *	C-LHC3130T 6146 6147	LHC3130T 6146 6147
Dusk-to-Dawn Luminaire and Mast Arm *	C-LAH0630P 6147	LAH0630P 6147
Dusk-to-Dawn Light on a Light Pole *	C-LAH3130P 6147	LAH3130P 6147
Two (2) Dusk-to-Dawn Lights on a Light Pole *	C-LHC3130PT 6146 6147	LHC3130P* 6146 6147

* Compatible Unit and SRP Mast Arm Number annotated

XIX. CUSTOMER OWNED STREET LIGHT/DUSK-TO-DAWN LIGHT:

CUSTOMER OWNED STEEL STREET LIGHT & LIGHT POLE:
 Street light and light pole owned by an SRP Customer and maintained by SRP.

CUSTOMER OWNED DUSK-TO-DAWN LUMINAIRE:
 Dusk-to-dawn light owned by an SRP Customer and maintained by SRP.

EQUIPMENT/DEVICE	PROPOSED	EXISTING
Street Light Luminaire and Mast Arm **	C-LAL0822F ME158615	LAL0822F ME158615
Street Light Luminaire and Mast Arm on a Light Pole **	C-LAL0822F ME158615	LAL0822F ME158615
Two (2) Street Light luminaires & Mast Arms on a Light Pole **	C-LHC3130FT ME158615 ME158616	LHC3130FT ME158615 ME158616
Customer Owned Light Pole: Mast Arms removed • Owner's Name annotated	N/A	MESA
Dusk-to-Dawn Luminaire and Mast Arm *	C-LAH0609F 158616	LAH0609F 158616
Dusk-to-Dawn Light on a Light Pole *	C-LAH2609F 158616	LAH2609F 158616
Two (2) Dusk-to-Dawn Lights on a Light Pole *	C-LHC3130FT 158615 158616	LHC3130FT 158615 158616
Future Street Light Luminaire and Mast Arm		N/A
Future Street Light Luminaire and Mast Arm on a Light Pole		N/A
Future Two (2) Street Light luminaires & Mast Arms on a Light Pole		N/A

* Compatible Unit and SRP Mast Arm Number annotated
 ** Compatible Unit, Ownership and SRP Mast Arm Number annotated

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**UNDERGROUND LOCATION
 DESIGN SYMBOLS**



ELECTRIC DISTRIBUTION
 CONSTRUCTION STANDARDS

DES. RAL/JRC/WEL
 OR. BEB
 APP. DATE 6/19/90
 0513E194

8513E194
 REMOVED OVERHEAD SWITCH AND TRANSFER SYMBOLOGY; ADDED METER TERMINOLOGY FROM PAGE 12-107 11/30/94.
 REV. 3
 DES. RAL/ACF/WEL
 DR. BEB/JRC
 APP. 7/23/90
 DATE

XX. METER:

METER PEDESTAL:

A Customer Owned Service Entrance Section enclosure, installed on a concrete pad. Usually used as a Service Entrance Section for mobile homes.

METER LOCATION SYMBOL:

A diamond shaped design symbol which identifies the proposed location where the Service Entrance Section (SES) will be constructed and the meter will be installed.

EQUIPMENT/DEVICE	PROPOSED	EXISTING
Meter Pedestal, Single • Symbol size: 3/32"	□	■
Meter Pedestal, Double • Symbol size: 3/32"	▣	▣
Meter Location (Single Meter) • Symbol size: 1/8" in height	◇	N/A
Meter Location (Multiple Meters) • Number of meters annotated • Symbol size: 1/8" in height	◇	N/A

XXI. POLE RISER:

An assembly containing electric conductors, power molding, terminations and devices for primary, secondary, services or communication cable that provides a raceway on the side of a pole between a buried and an overhead conductor.

EQUIPMENT/DEVICE	PROPOSED	EXISTING
Pole Riser • Symbol size: 1/8" • Pole Riser SRP Number annotated for Pole Riser only 	C-PR- 	PR-

XXII. SUBSTATION:

SRP DISTRIBUTION SUBSTATION:

An area where specific equipment is located and housed. The equipment is designed to change transmission voltage delivered to it to the voltage required by the distribution system.

SRP TRANSMISSION SUBSTATION:

The starting and ending point of 69kV transmission lines. They step transmission voltage up or down to 69kV, 115kV, 230kV and 500kV.

SUBSTATION BAY:

A functional grouping of equipment in a substation which transforms the incoming voltage to the outgoing voltage, together with devices which control the feeders emanating from it. In a transmission substation, all bays may not transform voltage.

SRP INDUSTRIAL SUBSTATION:

An SRP distribution substation with distribution circuit(s) owned and operated by an SRP customer.

CUSTOMER OWNED INDUSTRIAL SUBSTATION:

A customer owned distribution substation that receives power from the SRP distribution or transmission systems.

EQUIPMENT/DEVICE	PROPOSED OR EXISTING
SRP Distribution Substation and Bay • Substation Name annotated • 40-Acre Map Code annotated • "BAY" Number annotated (all bays will be shown)	
SRP Transmission Substation and Bay • Substation Name annotated • 40-Acre Map Code annotated • Generating Voltage(s) annotated	

SRP PROPRIETARY MATERIAL - THIS MATERIAL IS BASED ON ASSUMPTIONS AND CRITERIA WHICH MAY NOT BE VALID OUTSIDE THE SRP ELECTRIC SYSTEM. FOR INTERNAL USE ONLY.



ELECTRIC DISTRIBUTION
CONSTRUCTION STANDARDS

**UNDERGROUND LOCATION
DESIGN SYMBOLS**

12-108

SUBSTATION (cont'd):	
EQUIPMENT/DEVICE	PROPOSED OR EXISTING
<p>SRP Industrial Substation</p> <ul style="list-style-type: none"> • Substation Name annotated • 40-Acre Map Code annotated <p>Customer Owned Industrial Substation</p> <ul style="list-style-type: none"> • Substation Name annotated • 40-Acre Map Code annotated 	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>CHOPPER AF0112</p> <p>SRP STATION => CUSTOMER DISTRIBUTION</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>OXHIDE AN3415</p> <p>SRP TRANSMISSION => CUSTOMER STATION</p> </div>

XXIII. CO-GENERATION:

A symbol that represents an SRP customer owned facility that produces electric power and is connected to the SRP distribution system.

EQUIPMENT/DEVICE	PROPOSED	EXISTING
<p>Co-Generation</p> <ul style="list-style-type: none"> • Symbol size: 1/4" • Ownership annotated • Customer kVA annotated 	<p>(Owner's Name) 125kVA</p> 	<p>(Owner's Name) 125kVA</p> 

XXIV. SALE LEASE BACK BOUNDARY LINE:

A boundary enclosing electrical equipment that SRP is leasing from a private customer. The equipment in the Sale Lease Back Agreement operated and maintained by SRP.

EQUIPMENT/DEVICE	PROPOSED OR EXISTING
Sale Lease Back Boundary Line	////////////////////

XXV. MISCELLANEOUS:

POINT OF DELIVERY:

The location where SRP facilities end and customer facilities begin.

FENCE:

A structure constructed around electric facilities. It may be any material (i.e. chain link, wood, masonry etc.)

BRACKET:

A symbol used to represent the end of conductor or conduit.

ELECTRONIC MARKER:

A device placed in the ground over an SRP underground facility for the purpose of locating it in the future. Also referred to as a Potty Seat.

MOLE ASSEMBLY:

A connector used to mechanically and electrically join secondary to other secondary, service and/or street light conductors.

T-TAP:

A connector used inside junction boxes to mechanically and electrically join secondary to secondary, service and street light conductors.

MATCH LINE:

A heavy line, annotated with alpha characters for identification, drawn across a plan view, which indicates the plan view continues at another location. A note on the match line is used to indicate where the other view is located (i.e. "CONT'D ON THIS SHEET" or "CONT'D ON SHEET 3").

CROSS SECTION LINE:

A symbol, annotated with alpha characters, drawn on a plan, which indicates that a cross section or profile view exists. A note on the Cross Section Line is used to indicate where the other view is located.

SRP PROPRIETARY MATERIAL - THIS MATERIAL IS BASED ON ASSUMPTIONS AND CRITERIA WHICH MAY NOT BE VALID OUTSIDE THE SRP ELECTRIC SYSTEM. FOR INTERNAL USE ONLY.

<p>UNDERGROUND LOCATION DESIGN SYMBOLS</p>		 <p>ELECTRIC DISTRIBUTION CONSTRUCTION STANDARDS</p>	DES. RAL/JRC
12-109			DR. BEB/JRC
		APP. <i>[Signature]</i>	DATE 4/30/93

8513E194
 11/30/94
 REV. 2
 DES. JRC/RAL/WEL
 DR. BEB
 APP. *WEL*
 DATE 4/30/93

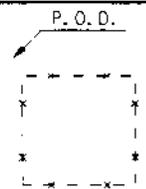
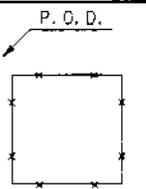
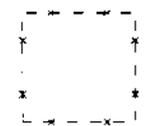
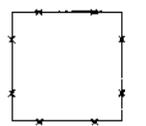
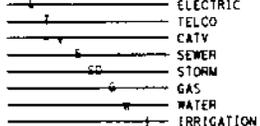
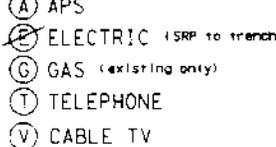
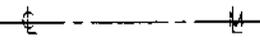
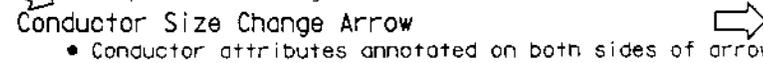
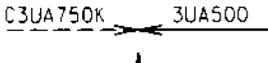
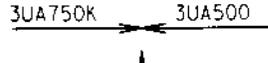
MISCELLANEOUS (cont'd):

OTHER UTILITIES:

Any underground utility (gas, water, sewer, electric or communications) which is not SRP owned.

WORK POINT:

A square, with a number inside, used to identify a specific location in a design drawing where construction work is called for.

EQUIPMENT/DEVICE	PROPOSED	EXISTING
Point of Delivery • Arrow points to appropriate symbol		
Fence		
Bracket		
Electronic Marker		
Mole Assembly	N/A	
T-Top, Secondary	N/A	
Match Line • Recommended Line Weight: 9mm • Computer Line Weight: 3		N/A
Cross Section Lines • Recommended Line Weight: 9mm • Computer Line Weight: 3 • Indicate Detail and Direction of View		N/A
Other Underground Utilities (shown for reference) • Recommended Line Weight: 3mm • Computer Line Weight: 1		N/A
Work Point • Identification block is at minimum 1/4" • Indicate Point Number in box		N/A
Utility Identifier -used with Mainline Trench Symbol to show utilities sharing the same trench (crosshatch shows utility doing trenching). • Recommended Line Weight: 9mm • Computer Line Weight: 1		N/A
Monument Line and Road Center Line • Recommended Line Weight: 3mm • Computer Line Weight: 1		N/A
Property Line • Recommended Line Weight: 3mm • Computer Line Weight: 1		N/A
Easement Line • Recommended Line Weight: 3mm • Computer Line Weight: 1		N/A
 • Conductor attributes annotated on both sides of arrow		
North Arrow		

SRP PROPRIETARY MATERIAL - THIS MATERIAL IS BASED ON ASSUMPTIONS AND CRITERIA WHICH MAY NOT BE VALID OUTSIDE THE SRP ELECTRIC SYSTEM. FOR INTERNAL USE ONLY.



ELECTRIC DISTRIBUTION
CONSTRUCTION STANDARDS

UNDERGROUND LOCATION
DESIGN SYMBOLS

12-110

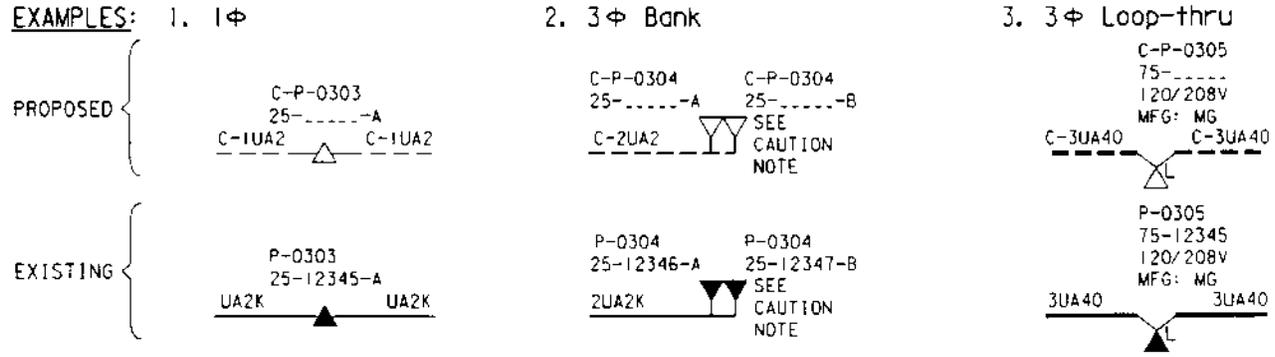
REV. 1 REVISED TRANSFORMER DESCRIPTION 11/30/93

I. CONDUCTOR:

EQUIPMENT/DEVICE	PROPOSED	EXISTING
1 ϕ Lateral • Recommended Line Weight: 5mm • Computer Line Weight: 0	C-1UA2K 225'	1UA2K 225'
2 ϕ Lateral • Recommended Line Weight: 5mm • Computer Line Weight: 1	C-2UA2K 150'	2UA2K 150'
3 ϕ Lateral • Recommended Line Weight: 7mm • Computer Line Weight: 2	C-3UA40K 475'	3UA40K 475'
Feeder • Recommended Line Weight: 9mm • Computer Line Weight: 3	C-3UA750K 600'	3UA750K 600'

II. TRANSFORMER:

Each SRP Owned Transformer identification shall include kVA, SRP number and secondary voltage, if other than 120/240V. Symbology does NOT indicate pad door direction.



EQUIPMENT/DEVICE	Symbol sizes: Transformer - 1/8" Doghouse - 1/4" (height)	PROPOSED	EXISTING
1 ϕ Pad Mounted			
3 ϕ Bank - Two single phase, pad mounted, interconnected for 120/240V (open delta), 1 ϕ & 3 ϕ			
3 ϕ Bank - Three single phase, pad mounted, interconnected for 120/240V, 1 ϕ & 3 ϕ			
3 ϕ Pad Mounted, Radial			
3 ϕ Pad Mounted, Loop-thru			
1 ϕ Doghouse, Burled	• Planned kVA and phase annotated	N/A	
3 ϕ Doghouse, Burled	• Planned kVA and phase annotated	N/A	

III. CUSTOMER/FOREIGN OWNED TRANSFORMER:

- Used for Design Drawings only
- Annotation same as Location Symbol

EQUIPMENT/DEVICE	Transformer symbol size: 1/8"	PROPOSED	EXISTING
1 ϕ Pad Mounted			
3 ϕ Bank - Two Single Phase Pad Mounted			
3 ϕ Bank - Three Single Phase Pad Mounted			
3 ϕ Pad Mounted			

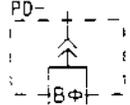
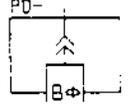
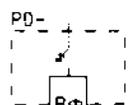
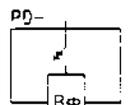
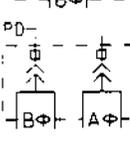
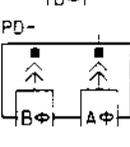
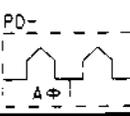
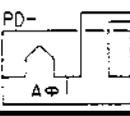
SRP PROPRIETARY MATERIAL - THIS MATERIAL IS BASED ON ASSUMPTIONS AND CRITERIA WHICH MAY NOT BE VALID OUTSIDE THE SRP ELECTRIC SYSTEM. FOR INTERNAL USE ONLY.

<p>UNDERGROUND SCHEMATIC SYMBOLS</p>	 <p>ELECTRIC DISTRIBUTION CONSTRUCTION STANDARDS</p>	DR. BBB App. 2/2/94 DATE 4/30/93	DES. RAL/JRC/ACF
		12-111	

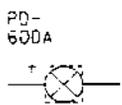
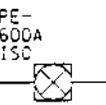
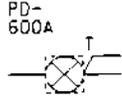
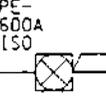
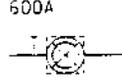
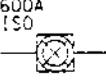
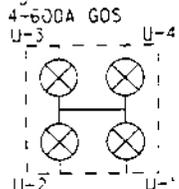
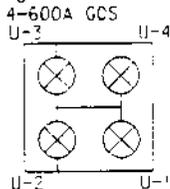
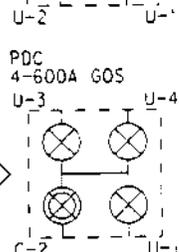
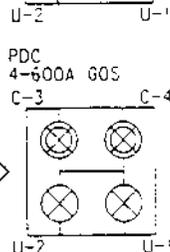
8513E201

8513E201

IV. PAD MOUNTED PRIMARY TAP:

EQUIPMENT/DEVICE	PROPOSED	EXISTING
<p>1ϕ Primary Tap</p> <ul style="list-style-type: none"> • Phase annotated 		
<p>1ϕ Primary Tap (Fused Tap)</p> <ul style="list-style-type: none"> • Phase annotated 		
<p>2ϕ Primary Tap</p> <ul style="list-style-type: none"> • Phase annotated 		
<p>3ϕ Primary Tap</p> <ul style="list-style-type: none"> • Proposed symbology shows no taps connected 		

V. PAD MOUNTED SWITCH:

EQUIPMENT/DEVICE	Switch symbol size: 1/4"	PROPOSED	EXISTING
<p>Blade Disconnect</p> <ul style="list-style-type: none"> • Current Rating in Amps "A" annotated 			
<p>Blade Disconnect, Double Lugged</p> <ul style="list-style-type: none"> • Current Rating in Amps "A" annotated 			
<p>Gang Operated</p> <ul style="list-style-type: none"> • Current Rating in Amps "A" annotated • "ISO" annotated if ISO Quensor Switch (Live Front only) • Top "T" designated (Dead Front only) 			
<p>Gang Operated, Double Lugged</p> <ul style="list-style-type: none"> • Current Rating in Amps "A" annotated • "ISO" annotated if ISO Quensor Switch (Live Front only) • Top "T" designated (Dead Front only) 			
<p> Gang Operated, Remote Controlled</p> <ul style="list-style-type: none"> • Current Rating in Amps "A" annotated • Top "T" designated (Dead Front only) 			
<p>Gang Operated Switching Cubicle, 4-Way</p> <ul style="list-style-type: none"> • Quantity, Current Rating in Amps "A" and "GOS" annotated • "U" Number annotated for each switch 			
<p> Gang Operated Switching Cubicle, 4-Way, w/Remote Control</p> <ul style="list-style-type: none"> • Quantity, Current Rating in Amps "A" and "GOS" annotated • "U" Number annotated for each switch • Double circle indicates remote controlled way 			

REV. 2 ADDED REMOTE-CONTROLLED GANG-OPERATED SWITCHES 12/15/94.

SRP PROPRIETARY MATERIAL - THIS MATERIAL IS BASED ON ASSUMPTIONS AND CRITERIA WHICH MAY NOT BE VALID OUTSIDE THE SRP ELECTRIC SYSTEM. FOR INTERNAL USE ONLY.

DES. RAL/ACF/WEL
 DR. BEB
 APP. [Signature]
 DATE 4/30/93

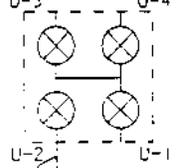
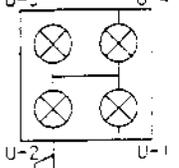
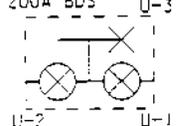
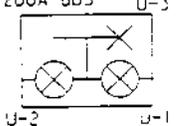
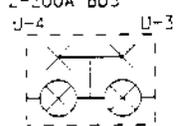
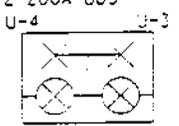
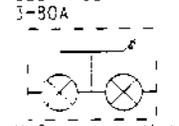
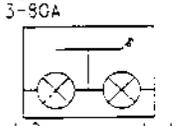
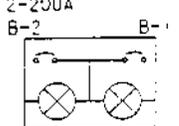


ELECTRIC DISTRIBUTION
 CONSTRUCTION STANDARDS

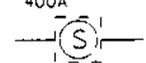
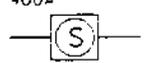
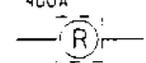
UNDERGROUND
 SCHEMATIC SYMBOLS

REV. 2 REMOVED PROPOSED VACUUM INTERRUPT SWITCH. ADDED SYMBOLS FROM 12-112, MOVED SECTION VIII 10-12-114 12/5/94. 85131201

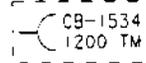
PAD MOUNTED SWITCH (cont' d):

EQUIPMENT/DEVICE	PROPOSED	EXISTING
<p>Gang Operated Switching Cubicle, 4-Way, Double Lugged</p> <ul style="list-style-type: none"> Quantity, Current Rating in Amps "A" and "GOS" annotated "U" Number annotated for each switch 	<p>PD- 4-600A GOS U-3 U-4</p> 	<p>PD- 4-600A GOS U-3 U-4</p> 
<p>Gang Operated Switching Cubicle, Auto Throwover with 1 Blade</p> <ul style="list-style-type: none"> Current Rating in Amps "A" & "AGS" annotated for Gang Switches Current Rating in Amps "A" & "BDS" annotated for Blade Switch "U" Number annotated for each switch 	<p>PD- 600A AGS 200A BDS U-3</p> 	<p>PD- 600A AGS 200A BDS U-3</p> 
<p>Gang Operated Switching Cubicle, Auto Throwover with 2 Blades</p> <ul style="list-style-type: none"> Current Rating in Amps "A" & "AGS" annotated Current Rating in Amps "A" & "BDS" annotated "U" Number annotated for each switch 	<p>PD- 600A AGS 2-200A BDS U-4 U-3</p> 	<p>PD- 600A AGS 2-200A BDS U-4 U-3</p> 
<p>Switching Cubicle, Automatic Throwover with 2 Fuses</p> <ul style="list-style-type: none"> Current Rating in Amps "A" & "AGS" annotated Number of fuses and Fuse Amp "A" Rating annotated "U" Number annotated for each switch 	<p>PD- 600A AGS 3-80A U-2 U-1</p> 	<p>PD- 600A AGS 3-80A U-2 U-1</p> 
<p>Switching Cubicle, Vacuum Interrupter</p> <ul style="list-style-type: none"> Current Rating in Amps "A" & "GOS" annotated Current Rating in Amps "A" annotated for Circuit Breakers "U" Number annotated for each GOS Switch "B" Number annotated for each Circuit Breaker 	<p>→ N/A</p>	<p>PD- 600A GOS 2-200A B-2 B-1 U-2 U-1</p> 

VI. PAD MOUNTED SECTIONALIZER & RECLOSER:

EQUIPMENT/DEVICE	PROPOSED	EXISTING
<p>Sectionalizer</p> <ul style="list-style-type: none"> Current Rating in Amps "A" annotated 	<p>PE-...S 400A</p> 	<p>PE-...S 400A</p> 
<p>Recloser</p> <ul style="list-style-type: none"> Current Rating in Amps "A" annotated 	<p>PE-...R 400A</p> 	<p>PE-...R 400A</p> 

VII. PAD MOUNTED CAPACITOR BANK:

EQUIPMENT/DEVICE	PROPOSED	EXISTING
<p>Capacitor Bank</p> <ul style="list-style-type: none"> SRP Capacitor Bank Number "CB" annotated inside symbol KVAR Rating and Control Type annotated inside symbol 	<p>PD- CB-1534 1200 TM</p> 	<p>PE- CB-1534 1200 TM</p> 
<p>Capacitor Bank (Future)</p> <ul style="list-style-type: none"> "FUTURE" annotated inside symbol 	<p>PD- FUTURE</p> 	<p>PD- FUTURE</p> 

SRP PROPRIETARY MATERIAL - THIS MATERIAL IS BASED ON ASSUMPTIONS AND CRITERIA WHICH MAY NOT BE VALID OUTSIDE THE SRP ELECTRIC SYSTEM. FOR INTERNAL USE ONLY.

**UNDERGROUND
SCHEMATIC SYMBOLS**



**ELECTRIC DISTRIBUTION
CONSTRUCTION STANDARDS**

DES. RAL/AGI/WEL
DR. BEB
APP. 4/83
DATE 4/30/93

B513E201
 REV. 2
 DES. RAL/JRC/ACF
 DR. BER
 APP. 2/17
 DATE 4/30/93
 ADDED SECTION VIII FROM PAGE 12-115, MOVED SECTION XII TO PAGE 12-115, 12/15/94.

VIII. PAD MOUNTED PRIMARY METER:			
EQUIPMENT/DEVICE	Symbol size: 1/8"	PROPOSED	EXISTING
Primary Meter "PM"	<ul style="list-style-type: none"> Source Load Number annotated Total Load in kVA or horsepower "HP" annotated 	PM- 1500kVA 	PM- 3542 1500kVA
IX. PAD MOUNTED FUSE:			
EQUIPMENT/DEVICE		PROPOSED	EXISTING
6-Tap Fusing Enclosure/Cubicle			
9-Tap Fusing Enclosure/Cubicle		N/A	
12-Tap Fusing Enclosure/Cubicle with ARC Strangler		N/A	
15-Tap Fusing Enclosure/Cubicle with ARC Strangler		N/A	

X. ENCLOSURE:		
EQUIPMENT/DEVICE	PROPOSED	EXISTING
Enclosure	PE- 	PE-

XI. VAULT:				
EQUIPMENT/DEVICE	PROPOSED	EXISTING		
Vault "V" or Burled Vault "BV" <ul style="list-style-type: none"> See notes 1 & 2 (end of Section XIII, p. 12-115) Vault Equipment annotated (see example) EXAMPLE: 3 Pole-Type Transformers In a Vault <table style="display: inline-table; vertical-align: middle; margin-left: 10px;"> <tr> <td style="font-size: 2em;">{</td> <td> BV-0921 150-54321-A 150-54320-B 150-54322-C 277/480V </td> </tr> </table>	{	BV-0921 150-54321-A 150-54320-B 150-54322-C 277/480V	V- 	BV-
{	BV-0921 150-54321-A 150-54320-B 150-54322-C 277/480V			

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REV. 2 ADDED REMOTE CONTROL RISER SWITCH ADDED SECTION XII FROM 12-114, MOVED 2 POLE RISER SYMBOLS 10-12-116 12/15/94. 8513E201

XII. MANHOLE:

EQUIPMENT/DEVICE	PROPOSED	EXISTING
Manhole "MH" • See note 2 (end of Section XIII, p. 12-115)		
Manhole (Customer Owned) • Ownership (if known) or "CO" annotated • See note 2 (end of Section XIII, p. 12-115)		

XIII. PULLBOX:

EQUIPMENT/DEVICE	PROPOSED	EXISTING
Pullbox "PB", Buried or Flush • See note 2 below		

NOTES (Sections X thru XIII):

- For those facilities in the enclosure or vault, annotate the appropriate text below the enclosure number or vault number.
- The symbol for Enclosure Box, Vault Box, Manhole Box & Pullbox is variable in size.

XIV. POLE RISER:

• Pole Riser Number "PR" annotated for each of the following.

EQUIPMENT/DEVICE	Riser Mold symbol size: 1/16" (width)	PROPOSED	EXISTING
Pole Riser Power Mold			
1-Phase Pole Riser with Blade Disconnect • Switch Current Rating in amps "A" annotated			
2-Phase Pole Riser with Blade Disconnects • "2-" and Switch Current Rating in amps "A" annotated			
3-Phase Pole Riser with Blade Disconnects • "3-" and Fuse Current Rating in amps "A" annotated			
3-Phase Pole Riser with Gang Operated Load Switch • "L" added to "PR" annotation • Switch Current Rating in amps "A" annotated			
3-Phase Pole Riser with Remote Controlled Gang Operated Load Switch • "C" added to "PR" annotation • Switch Current Rating in amps "A" annotated			
3-Phase Fused Pole Riser • Feeds three phase banked equipment • "3-" and Fuse Current Rating in amps "A" annotated			
2-Phase Fused Pole Riser serving a 3-Phase Load • "2-" and Fuse Current Rating in amps "A" annotated • See notes 1 & 2 (p. 12-116)			
Single Phase Fused Pole Riser • Fuse Current Rating in amps "A" and Phase Connected To annotated • See notes 1 & 2 (p. 12-116)			

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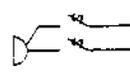
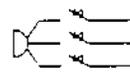
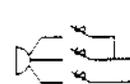
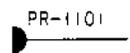


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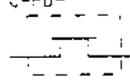
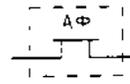
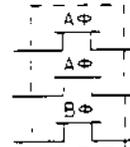
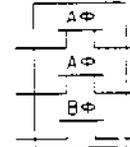
POLE RISER (cont'd):

EQUIPMENT/DEVICE	PROPOSED	EXISTING
<p>Two Single Phase Fused Pole Risers</p> <ul style="list-style-type: none"> • Fuse Current Rating in amps "A" and Phase Connected To annotated • See notes 1 & 2 (p.12-116) 	<p>PR-1010 85A-AΦ PR-1011 85A-BΦ</p> 	<p>PR-1010 85A-AΦ PR-1011 85A-BΦ</p> 
<p>Three Single Phase Fused Pole Risers</p> <ul style="list-style-type: none"> • Fuse Current Rating in amps "A" and Phase Connected To annotated • See notes 1 & 2 (p.12-116) 	<p>PR-1010 85A-AΦ PR-1011 85A-BΦ PR-1012 85A-CΦ</p> 	<p>PR-1010 85A-AΦ PR-1011 85A-BΦ PR-1012 85A-CΦ</p> 
<p>Four Single Phase Fused Pole Risers</p> <ul style="list-style-type: none"> • Fuse Current Rating in amps "A" and Phase Connected To annotated • See notes 1 & 2 below 	<p>PR-1010 85A-AΦ PR-1011 85A-BΦ PR-1012 85A-CΦ PR-1013 85A-BΦ</p> 	<p>PR-1010 85A-AΦ PR-1011 85A-BΦ PR-1012 85A-CΦ PR-1013 85A-BΦ</p> 
<p>One 2-Phase and One Single Phase Fused Pole Riser</p> <ul style="list-style-type: none"> • "2-" and Switch Current Rating in amps "A" annotated • Fuse Current Rating in amps "A" and Phase Connected To annotated • See note 3 below 	<p>PR-1010A PR-1010B 2-95A PR-1011 85A-BΦ</p> 	<p>PR-1010A PR-1010B 2-85A PR-1011 85A-BΦ</p> 
<p>3-Phase Pole Riser without Blade Disconnect</p>	<p>N/A</p>	<p>PR-1101</p> 

NOTES (Section XIV):

1. Pole riser may use blade disconnects instead of fuses. Replace fuse symbol with blade switch symbol in these instances.
2. Riser annotation is only shown stacked for documentation purposes. Riser annotation on the map may or may not be stacked.
3. Any combination of single phase, 2-phase or 3-phase pole risers is possible.

XV. PULLING ENCLOSURE: ←

EQUIPMENT/DEVICE	PROPOSED	EXISTING
<p>⇒ Three Phase Primary Enclosure or Transformer Substitute Enclosure</p>	<p>C-PD-</p> 	<p>PD-</p> 
<p>⇒ Single Phase Primary Enclosure</p> <ul style="list-style-type: none"> • Phase annotated 	<p>C-PD-</p> <p>AΦ</p> 	<p>PD-</p> <p>AΦ</p> 
<p>⇒ Primary Enclosure (3 single phases)</p> <ul style="list-style-type: none"> • Phase(s) annotated 	<p>C-PD-</p> <p>AΦ</p> <p>AΦ</p> <p>BΦ</p> 	<p>PD-</p> <p>AΦ</p> <p>AΦ</p> <p>BΦ</p> 

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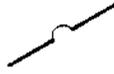
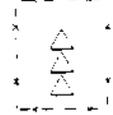
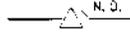
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XVI. CO-GENERATION:

EQUIPMENT/DEVICE	Symbol size: 1/4"	PROPOSED	EXISTING
Co-Generation • Ownership annotated • Customer kVA annotated • Generation Type (Photovoltaic, Diesel, etc) annotated	(Owner's Name) 125kVA Diesel 	(Owner's Name) 125kVA Diesel 	

XVII. MISCELLANEOUS:

EQUIPMENT/DEVICE	PROPOSED	EXISTING
Primary Conductor Crossing (not connected)		
Single Phase Fault Indicator		
3-Phase Fault Indicator		
3-Phase Bank - Multiple Pole-Type Transformers In a Fenced Enclosure		
Normally Open Switch		

REV. 0 NEW PAGE (THESE SECTIONS WERE PREVIOUSLY ON PAGE 12-117).

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