

Triplex Service Drop Attachment on Building

SKETCH #1

SKETCH #1

SHEET 1

SHEET 1

PPL EU FURNISHES, INSTALLS, MAINTAINS:

1. NEW SERVICE DROP AND MAKES CONNECTION TO CUSTOMER'S SERVICE ENTRANCE CONDUCTORS. MAXIMUM TENSION - 700 LBS.
2. METER.

PPL EU FURNISHES, MAINTAINS: CUSTOMER INSTALLS:

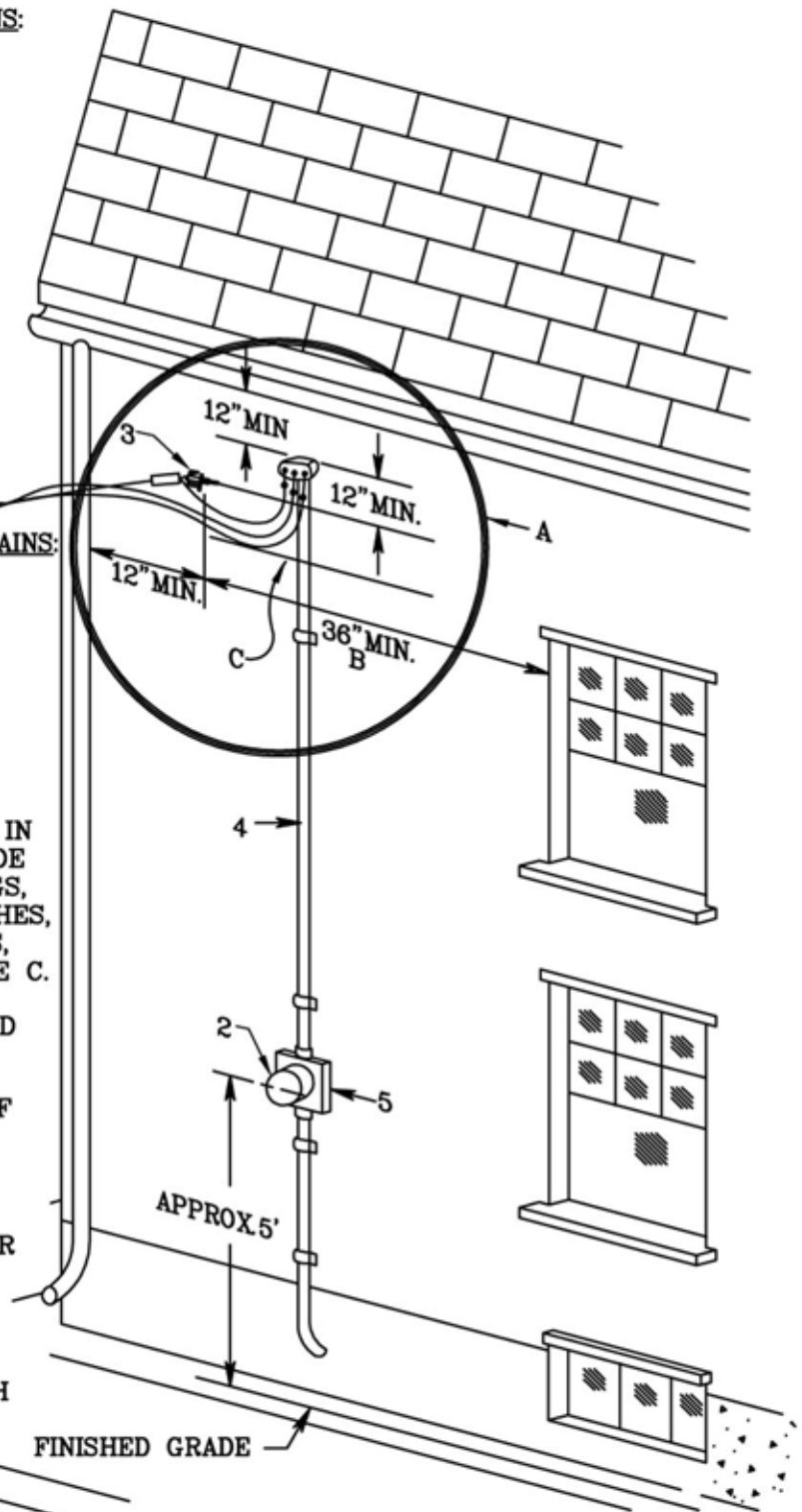
3. SERVICE BRACKET.

CUSTOMER FURNISHES, INSTALLS, MAINTAINS:

4. SERVICE ENTRANCE CONDUCTORS, SEE RULE 5.
5. METER BASE, SEE TABLE 1 FOR LIST OF APPROVED DEVICES.

NOTES:

- A. SEE RULE 4 AND 4A FOR CLEARANCES.
- B. 36 INCHES MINIMUM CLEARANCE IN ANY DIRECTION FROM THE OUTSIDE PERIMETER OF BUILDING OPENINGS, SUCH AS WINDOWS, DOORS, PORCHES, DECKS, BALCONIES, FIRE ESCAPES, OR SIMILAR. EXCEPTION SEE NOTE C.
- C. LESS THAN 36 INCHES PERMITTED WHEN SERVICE DROPS OR DRIP LOOPS ARE LOCATED OUT OF REACH ABOVE THE TOP LEVEL OF A WINDOW OR THE WINDOW IS DESIGNED NOT TO BE OPENED.
- D. METERBASE MUST BE SECURELY MOUNTED TO 2" NOMINAL LUMBER OR MASONRY CONSTRUCTION.
- E. 50" MINIMUM CLEAR SPACE IN FRONT OF METERBASE. SEE RULE 13, SKETCH 55 AND SKETCH 55A (SIDE VIEW).



*REFERENCE SKETCH 55 & SKETCH 55A

RULES FOR ELECTRIC METER AND SERVICE
INSTALLATIONS
**PPL ELECTRIC UTILITIES
CORPORATION**

Rules: 4, 4A, 5, 13

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Date: 8/17/07 **Engr:** MDB

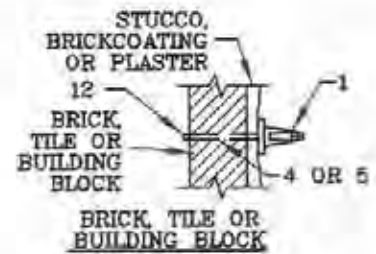
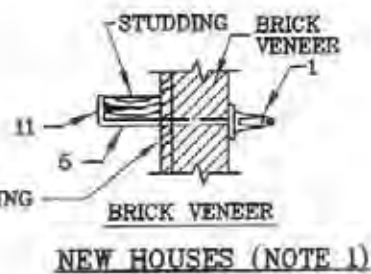
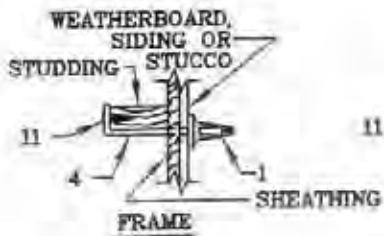
SKETCH #1A

SHEET 1AP1

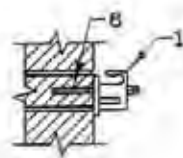
Secondary Service Service Drop Attachments

SKETCH #1A

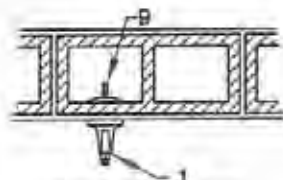
SHEET 1AP1



NEW HOUSES (NOTE 1)



MASONRY



BUILDING BLOCK



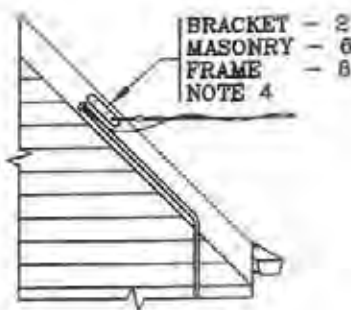
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FRAME OR SIDING (NOTE 5)

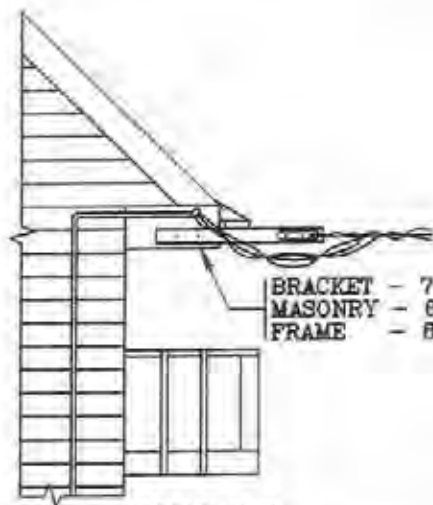


(ALTERNATE)

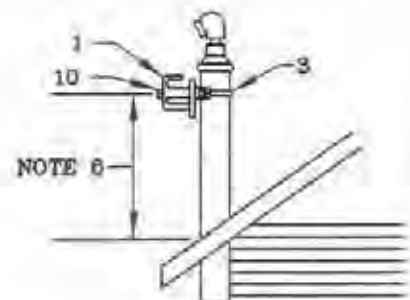
EXISTING HOUSES (NOTE 2)



TWISTED SERVICE
DROP BRACKET



BALCONY BAR



PIPE MAST

NEW AND EXISTING HOUSES

RULES FOR ELECTRIC METER AND SERVICE
INSTALLATIONS
PPL ELECTRIC UTILITIES
CORPORATION

Rules: 4, 5

Date: 11/1/06 Engr: MDB

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SKETCH #1A

Secondary Service Service Drop Attachments

SKETCH #1A

SHEET 1AP2

SHEET 1AP2

ITEM	DESCRIPTION
1	BRACKET, SERVICE DROP, THREE POINT
2	BRACKET, SERVICE DROP, TWISTED
3	BRACKET, SERVICE DROP, PIPE ATTACHMENT
4	BOLT, ANCHOR, HOUSE, BRACKET, 3/8" x 12"
5	BOLT, ANCHOR, HOULSE BRACKET, 3/8" x 16"
6	ANCHOR, EXPANSION, 3/8" x 5"
7	BRACE, CROSSARM - DRILL EXTRA 3/8" HOLE
8	SCREW, LAG, GIMLET POINT, 3/8" x 5"
9	BOLT, TOGGLE, 3/8" x 5 "
10	BOLT, MACHINE, 3/8" x 2"
11	NAIL, WIRE, 8d
12	NAIL, MASONRY

NOTES:

1. PPL EU SUPPLIES BOLT, DESIGNATES ATTACHMENT LOCATION, INSTALLS BRACKET AND CUTS OFF EXCESS BOLT LENGTH. BUILDER INSTALLS ANCHOR BOLT WITH BOLT EXTENDING AT LEAST 2 INCHES BEYOND OUTSIDE FACE OF FINISHED WALL.
2. PPL EU SUPPLIES BRACKET AND FASTENERS; CUSTOMER ATTACHES OR RE-ATTACHES BRACKET.
3. DRILL 1/4 INCH HOLE INTO STUD.
4. TWISTED SERVICE CABLE BRACKET USED TO PROVIDE CLEARANCE BETWEEN SERVICE CABLE AND DOWN SPOUT OR ROOF EDGE.
5. PREFERRED ATTACHMENT METHOD IS TO INSTALL LAG SCREW INTO STUD. IF NO STUD IS LOCATED, THE ALTERNATE METHOD CAN BE USED PROVIDED BRACKET IS LOCATED LESS THAN 4 FEET FROM ANY CORNER OF STRUCTURE.
6. SEE SKETCH 3 FOR ATTACHMENT HEIGHTS ABOVE ROOF ON PIPE MAST.

RULES FOR ELECTRIC METER AND SERVICE
INSTALLATIONS
**PPL ELECTRIC UTILITIES
CORPORATION**

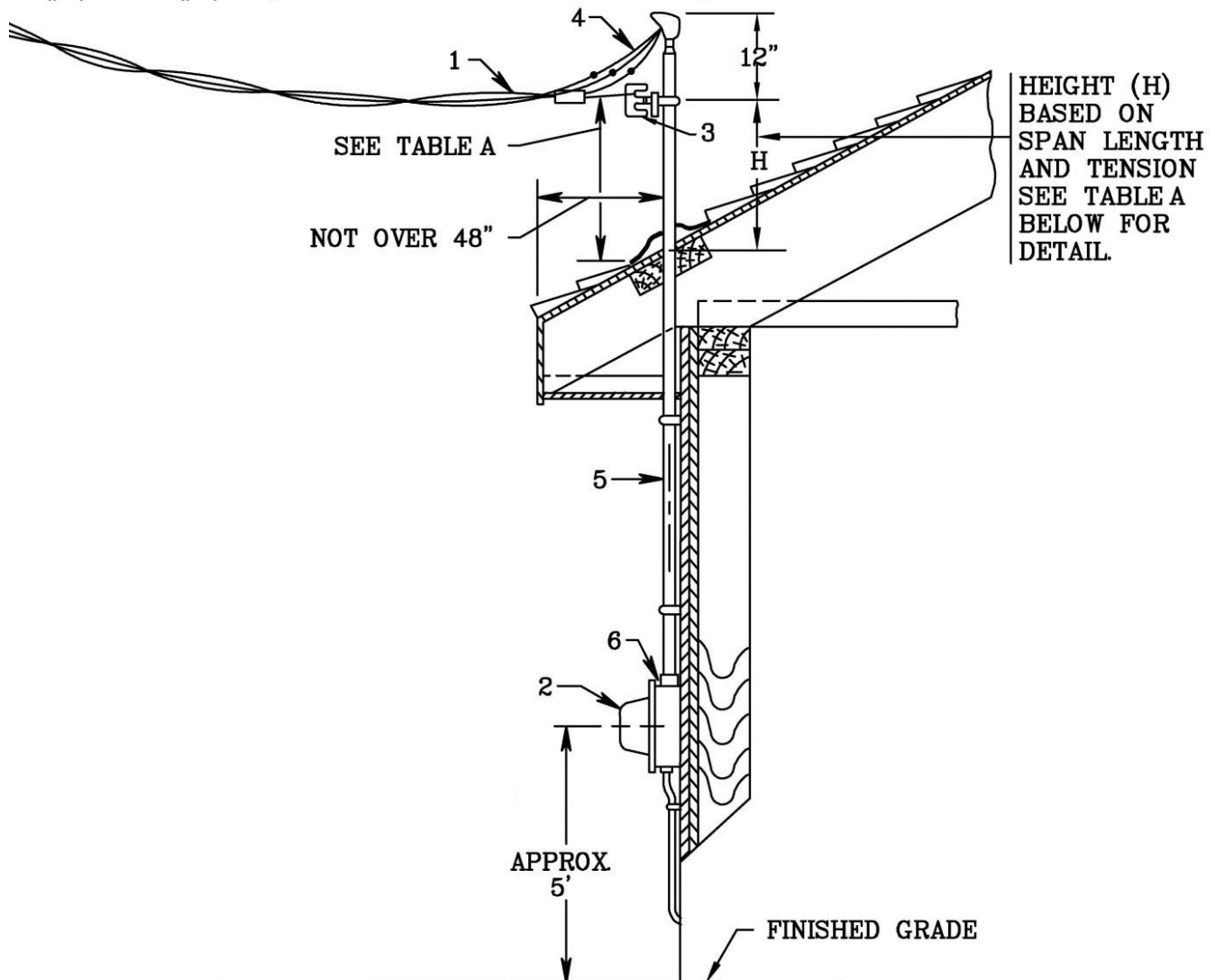
Rules: 4, 5

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Date: 11/1/06 Engr: MDB

Sketch #3 Secondary service drop attachment to a mast attached to low building to provide required clearances

THIS TYPE OF CONNECTION IS LIMITED TO SERVICES WITH SELF-CONTAINED METER AND #4, #1/0, OR #4/0 TRIPLEX FOR SINGLE PHASE, 3 WIRE OR #2/0 OR #4/0 QUADRUPLX FOR THREE PHASE, 4 WIRE.



* REFERENCE SKETCH 55 & 55A

REV	DATE	APPROVED			RULES FOR ELECTRIC METER AND SERVICE INSTALLATIONS PPL ELECTRIC UTILITIES CORPORATION
		DRAFTER	SPONSOR	REVIEW	
0	7/15/15	RRC	MP	-	RULES: 4, 4A, 5, 13
1	8/11/15	RRC	MP	-	
2	8/22/16	RRC	NAP	-	

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Sketch #3 Secondary service drop attachment to a mast attached to low building to provide required clearances (cont.)

PPL EU FURNISHES, INSTALLS, MAINTAINS:

1. NEW SERVICE DROP AND MAKES CONNECTION TO CUSTOMER'S SERVICE ENTRANCE CONDUCTORS. MAXIMUM TENSION - 850 LBS.
2. METER

PPL EU FURNISHES, CUSTOMER INSTALLS:

3. SERVICE BRACKET - PPL EU CATALOG #107283, 107280, 106150

CUSTOMER FURNISHES, INSTALLS, MAINTAINS:

4. SERVICE ENTRANCE CONDUCTORS; SEE RULE 5.
5. THREADED GALVANIZED-RIGID METAL CONDUIT (RMC) OR INTERMEDIATE METAL CONDUIT (IMC) FIRMLY ATTACHED TO BUILDING. ANCHOR PIPE RIGIDLY AT ROOF TO PREVENT ROOF DAMAGE DUE TO VIBRATION. DO NOT INSTALL CONDUIT COUPLING ABOVE ROOF LINE.
6. METER BASE: SEE TABLES 1 & 3 - APPROVED METER SERVICE DEVICES.

NOTES:

- A. SEE RULE 4 AND 4A FOR CLEARANCE.
- B. 50" MINIMUM CLEAR SPACE IN FRONT OF METER BASE. SEE RULE 13, SKETCH 55, AND SKETCH 55A (SIDE VIEW).

Table A

SERVICE MULTIPLEX CABLE ASSEMBLY SIZED ACCORDING TO DIVERSIFIED LOAD	SPAN LENGTH	MINIMUM CONDUIT SIZE	HEIGHT ABOVE ROOF ATTACHMENT (H)	
			MINIMUM	MAXIMUM
#4 AL TRIPLEX	100' OR LESS	2"	18"	24"
		2.5"		36"
	100' TO 150'	2.5"		22"
		3"		36"
#1/0 AL TRIPLEX	100' OR LESS	2.5"	18"	30"
	100' TO 125'	2.5"		22"
	125' OR LESS	3"		36"
#4/0 AL TRIPLEX	100' OR LESS	2.5"	18"	22"
		3"		36"
#2/0 AL QUADRUPLIX	100' OR LESS	2.5"	18"	22"
		3"		36"
#4/0 AL QUADRUPLIX	100' OR LESS	2.5"	18"	18"
		3"		30"

* REFERENCE SKETCH 55 & 55A

REV	DATE	APPROVED			RULES FOR ELECTRIC METER AND SERVICE INSTALLATIONS PPL ELECTRIC UTILITIES CORPORATION RULES: 4, 4A, 5, 13
		DRAFTER	SPONSOR	REVIEW	
0	7/15/15	RRC	MP	-	
1	8/11/15	RRC	MP	-	
2	8/22/16	RRC	NAP	-	

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Sketch #4

6-50

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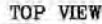
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Revision: 01

Effective Date: 09/19/2016

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Sketch #4 Secondary service drop attachment on temporary structure for construction



DIMENSION "L" SHALL NOT BE LESS THAN 1/2 OF DIMENSION "H", NOR GREATER THAN "H". "H" SHALL BE 8 FEET MINIMUM.

CUSTOMER SHALL INSTALL STRUCTURE AT A LOCATION DESIGNATED BY PPL. THE STRUCTURE SHALL BE ACCESSIBLE TO PPL BUCKET TRUCKS. STRUCTURE MUST BE INSTALLED IN AN AREA WHICH IS NOT ASSESSIBLE TO VEHICULAR TRAFFIC.

1 - SERVICE BRACK

STRUCTURE OF TWO 2 INCH
BY 4 INCH TIMBERS SET
24 INCHES IN GROUND FIRMLY
BRACED OR CLASS 5 POLE,
MINIMUM, SET 60 INCHES IN
THE GROUND OF SUFFICIENT
HEIGHT TO PROVIDE SERVICE
DROP CLEARANCE SPECIFIED
IN RULE 4.

SPLICING OF TIMBERS
IS NOT PERMITTED.

3. SERVICE DROP OR INSUFFICIENT

2 - SERVICE DROP OF SUFFICIENT LENGTH TO REACH THE PERMANENT SERVICE LOCATION AND MAKES CONNECTION TO CUSTOMER'S SERVICE ENTRANCE CONDUCTORS. MAXIMUM TENSION - 400 LBS.

3 - METER.

CUSTOMER FURNISHES, INSTALLS, MAINTAINS:

4 - SERVICE ENTRANCE CONDUCTORS

5 - METER BASE OR METER BASE/
BREAKER COMBINATION. SEE
TABLE 1 - APPROVED METER
SERVICE DEVICES.

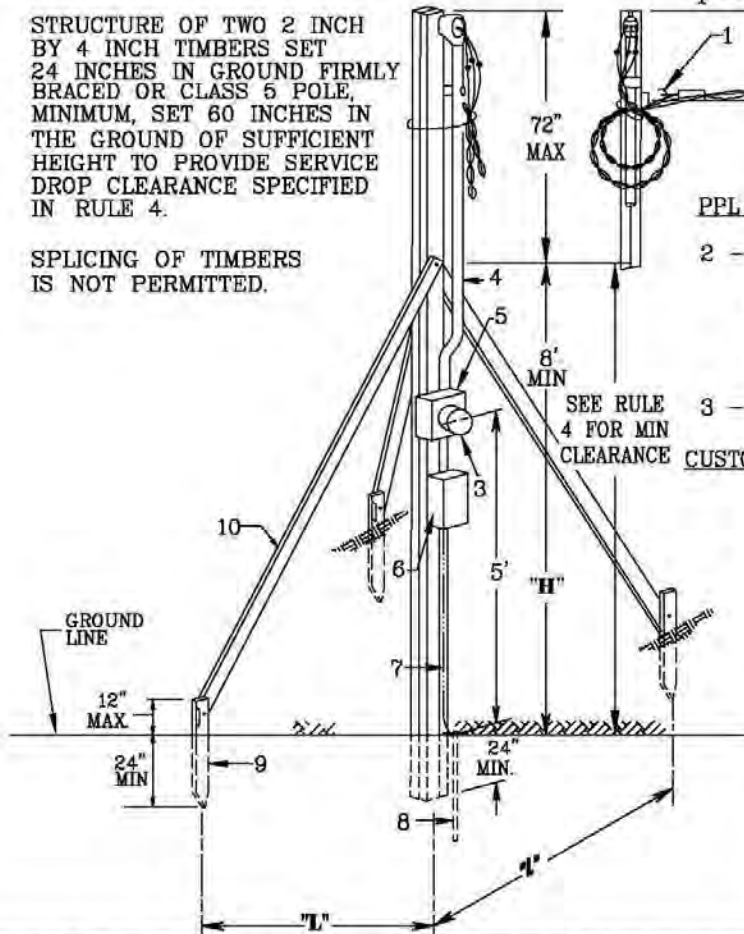
6 - SERVICE DISCONNECT
EQUIPMENT, IF SEPARATE.

7 - SERVICE GROUND.

B - GROUND ROD

9 - 2"x4"x36" STAKES (3 REQUIRED)

10 - 2"x4" BRACES (3 REQUIRED)



RULES FOR ELECTRIC METER AND SERVICE INSTALLATIONS

**PPL ELECTRIC UTILITIES
CORPORATION**

Rules: 4, 5

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Date: 7/18/16 **Engr:** NAP

Underground Secondary Service to Underground Attachment on Temporary Structure for Construction

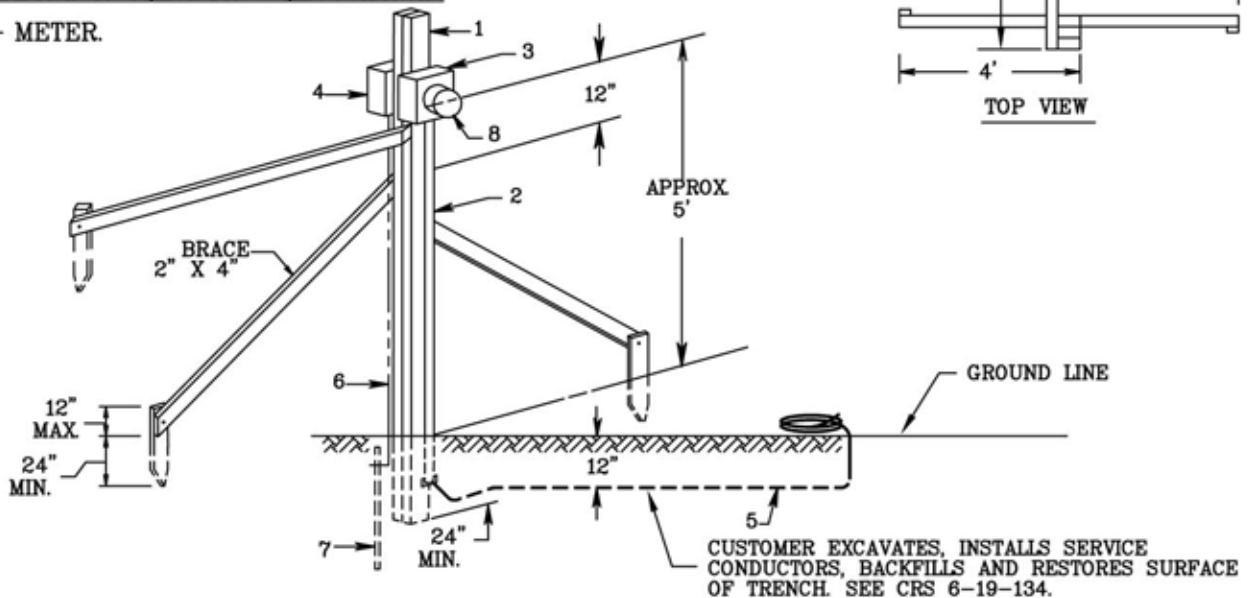
CUSTOMER FURNISHES, INSTALLS, MAINTAINS:

- 1 - STRUCTURE OF TWO 2 INCH BY 4 INCH OR ONE 4 INCH BY 4 INCH TIMBER SET 24 INCHES IN GROUND OF SUFFICIENT HEIGHT TO ALLOW METER BASE TO BE PLACED APPROXIMATELY 5 FEET ABOVE GROUND. STRUCTURE SHOULD BE PLACED AT THE LOCATION DESIGNATED BY PPL BRACE STRUCTURE IN THREE DIRECTIONS AS SHOWN. THOROUGHLY COMPACT EARTH AROUND TIMBERS.
- 2 - 3 INCH MINIMUM THREADED GALVANIZED RIGID OR INTERMEDIATE STEEL CONDUIT AND BUSHING OR SCHEDULE 40 GRAY PVC CONDUIT EXTENDING 12 INCHES BELOW GRADE.
- 3 - METER BASE OR METER BASE/BREAKER COMBINATION. SEE TABLE 2 - APPROVED METER SERVICE DEVICES.
- 4 - SERVICE DISCONNECT EQUIPMENT IF SEPARATE (MAY BE MOUNTED ON FRONT OR REAR OF STRUCTURE).
- 5 - 3 SERVICE CONDUCTORS IN 3 INCH MINIMUM SUPER CORFLO FLEXIBLE PIPE OR SCHEDULE 40 GRAY PVC INSTALLED AT LEAST 12 INCHES BELOW GRADE AND IN SUFFICIENT LENGTH TO EXTEND 10 FEET BEYOND PPL SOURCE.
NOTE: PPL WILL MAKE CONNECTION TO SOURCE.
- 6 - SERVICE GROUND.
- 7 - GROUND ROD.

NOTE: TIMBER SHALL NOT BE SPLICED.

PPL FURNISHES, INSTALLS, MAINTAINS:

- 8 - METER.



RULES FOR ELECTRIC METER AND SERVICE
INSTALLATIONS
**PPL ELECTRIC UTILITIES
CORPORATION**

Rules: 4

Date: 11/04/04 **Engr:** RGR

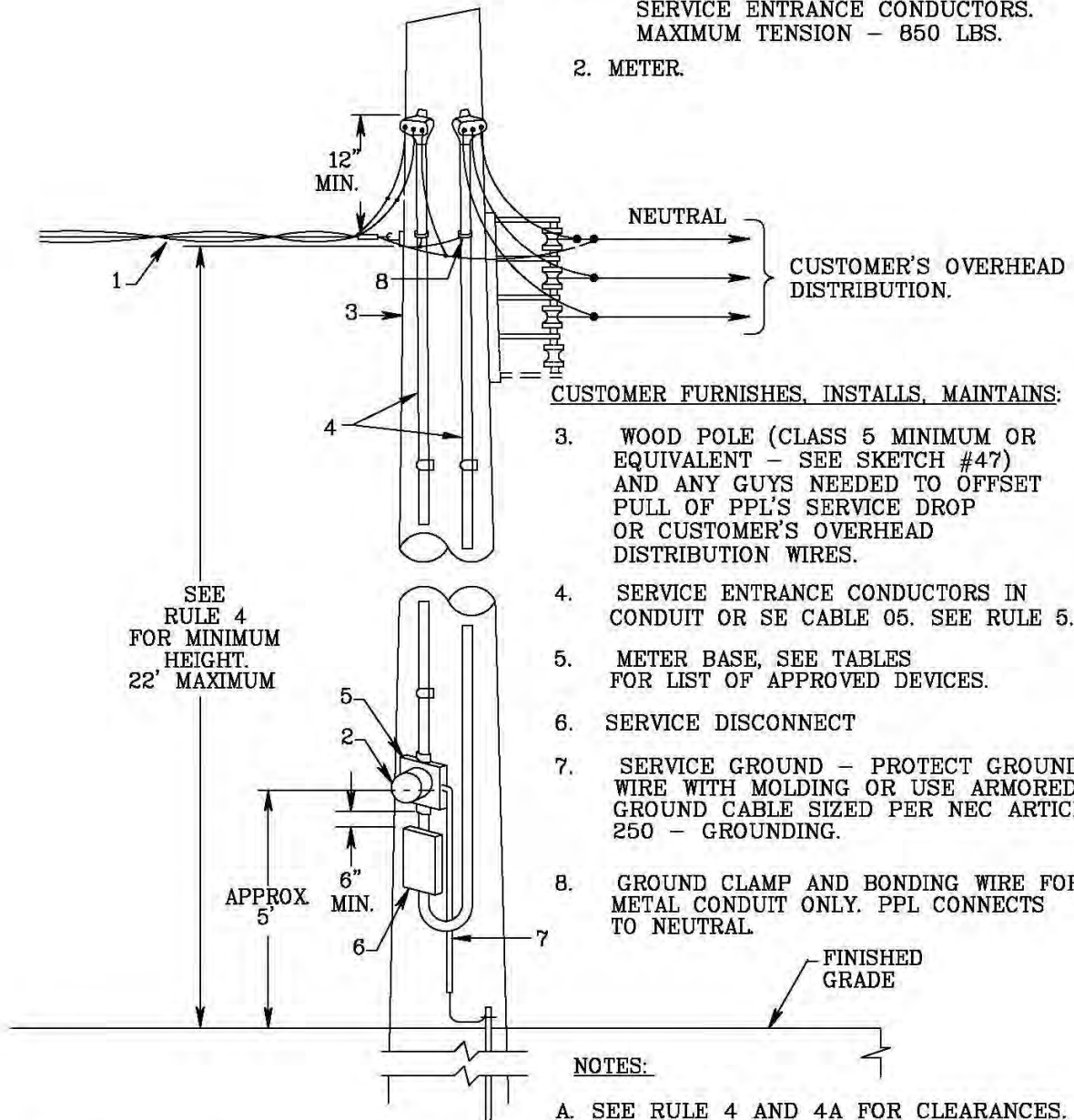
*REFERENCE CRS 6-19-134

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Sketch #5 Overhead secondary service drop attachment to customer-owned service and meter pole for overhead distribution

PPL FURNISHES, INSTALLS, MAINTAINS:

1. SERVICE DROP AND MAKES CONNECTION TO CUSTOMER'S SERVICE ENTRANCE CONDUCTORS. MAXIMUM TENSION - 850 LBS.
2. METER.



CUSTOMER FURNISHES, INSTALLS, MAINTAINS:

3. WOOD POLE (CLASS 5 MINIMUM OR EQUIVALENT - SEE SKETCH #47) AND ANY GUYS NEEDED TO OFFSET PULL OF PPL'S SERVICE DROP OR CUSTOMER'S OVERHEAD DISTRIBUTION WIRES.
4. SERVICE ENTRANCE CONDUCTORS IN CONDUIT OR SE CABLE 05. SEE RULE 5.
5. METER BASE, SEE TABLES FOR LIST OF APPROVED DEVICES.
6. SERVICE DISCONNECT
7. SERVICE GROUND - PROTECT GROUND WIRE WITH MOLDING OR USE ARMORED GROUND CABLE SIZED PER NEC ARTICLE 250 - GROUNDING.
8. GROUND CLAMP AND BONDING WIRE FOR METAL CONDUIT ONLY. PPL CONNECTS TO NEUTRAL

RULES FOR ELECTRIC METER AND SERVICE INSTALLATIONS
PPL ELECTRIC UTILITIES CORPORATION

Rules: 4, 4A, 5

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Date: 7/18/16 **Engr:** NAP

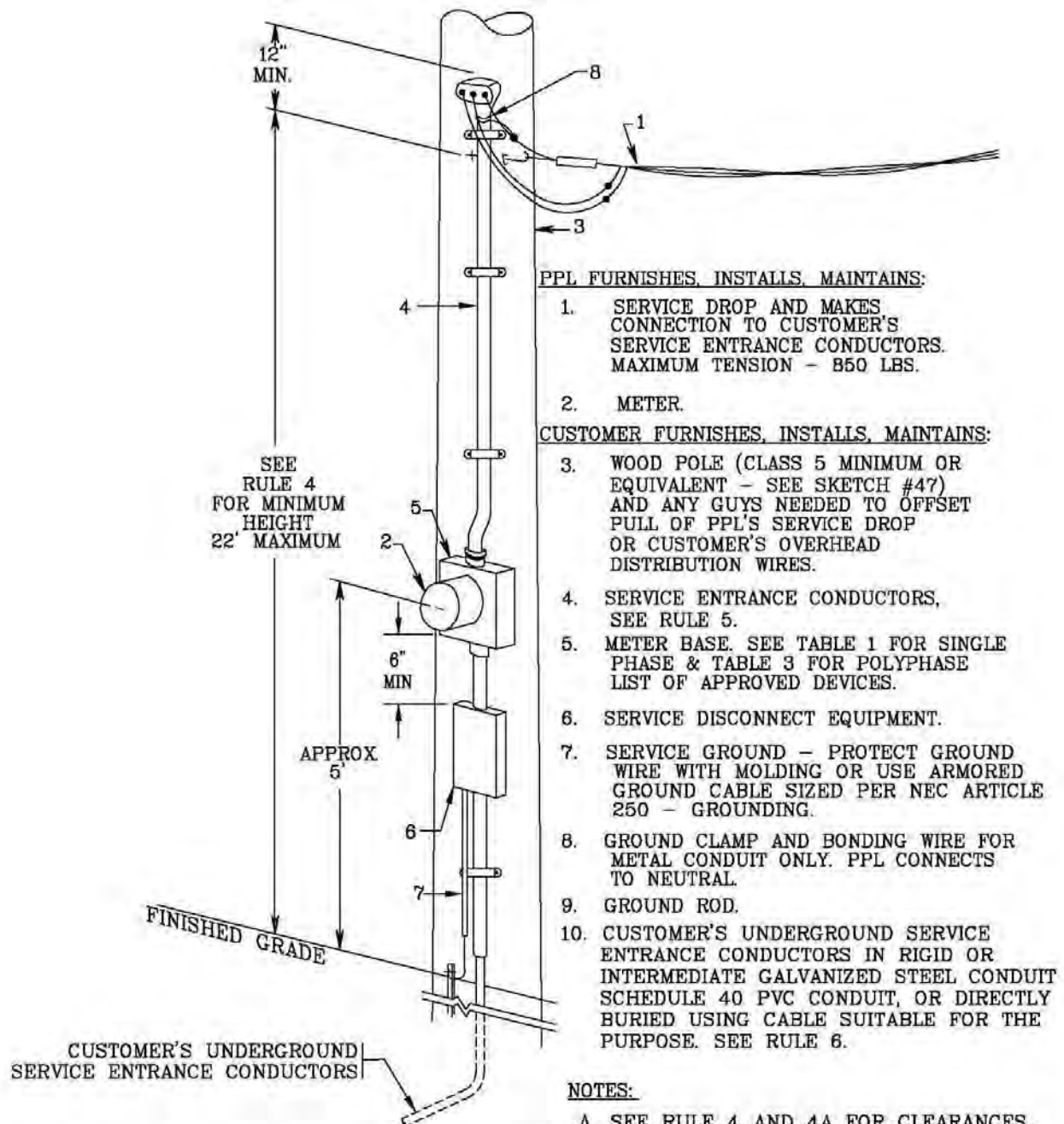


REMSI Sketches 1-25
Sketch #6
6-50

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Custom ID: DCS 6-50
Revision: 01
Effective Date: 09/19/2016
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Sketch #6 Overhead secondary service drop attachment to customer-owned service and meter pole to underground service entrance

Single phase or Three Phase, 240 volt maximum, self-contained meter, 600 ampere maximum



RULES FOR ELECTRIC METER AND SERVICE
INSTALLATIONS
**PPL ELECTRIC UTILITIES
CORPORATION**

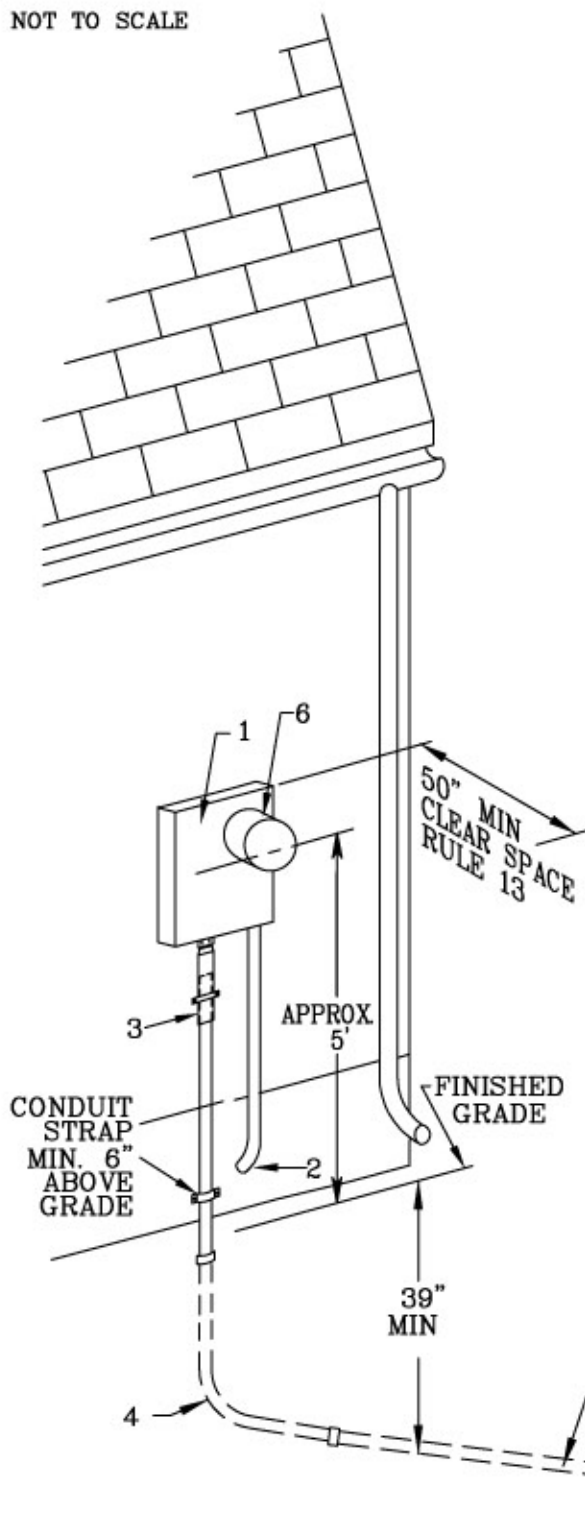
Rules: 4, 4A, 5, 6

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Date: 7/18/16 **Engr:** NAP

SKETCH 7	TYPICAL ARRANGEMENT OF METER ON BUILDING	SKETCH 7
Sheet 1		Sheet 1

NOT TO SCALE



VOLTAGE:

1 Phase, 3 Wire, 120/240V
1 Phase, 3 Wire, 120/208V*

SERVICE TYPE:

Underground

AMPERAGE:

*400 A Maximum
600 A Maximum

METER BASE:

Outdoor

CUSTOMER FURNISHES, INSTALLS, MAINTAINS

1. UNDERGROUND METER BASE APPROVED BY PPL EU SEE TABLE 2 - 1 PHASE.
2. SERVICE ENTRANCE CABLE OR CONDUCTORS IN CONDUIT. SEE RULE 5.
3. SLIP RISER AND CONDUIT DOWN TO 90° ELBOW SEE SKETCH #7A FOR MORE DETAILS.
4. 90° ELBOW, 36-INCH RADIUS (GRAY SCHEDULE 40 PVC OR GALVANIZED STEEL) (CONSULT PPL EU TECHNICIAN FOR MATERIAL).

CUSTOMER FURNISHES AND INSTALLS, PPL EU MAINTAINS.

5. SERVICE LATERAL CONDUIT TO 90° ELBOW - GRAY SCHEDULE 40 PVC CONDUIT (UL APPROVED) OR SUPERCORFLO (SIZE TO MATCH METER RISER CONDUIT).

PPL EU FURNISHES, INSTALLS, MAINTAINS:

6. METER
7. SERVICE LATERAL CONDUCTORS TERMINATING ON LINE SIDE TERMINALS IN METER BASE.

NOTE:

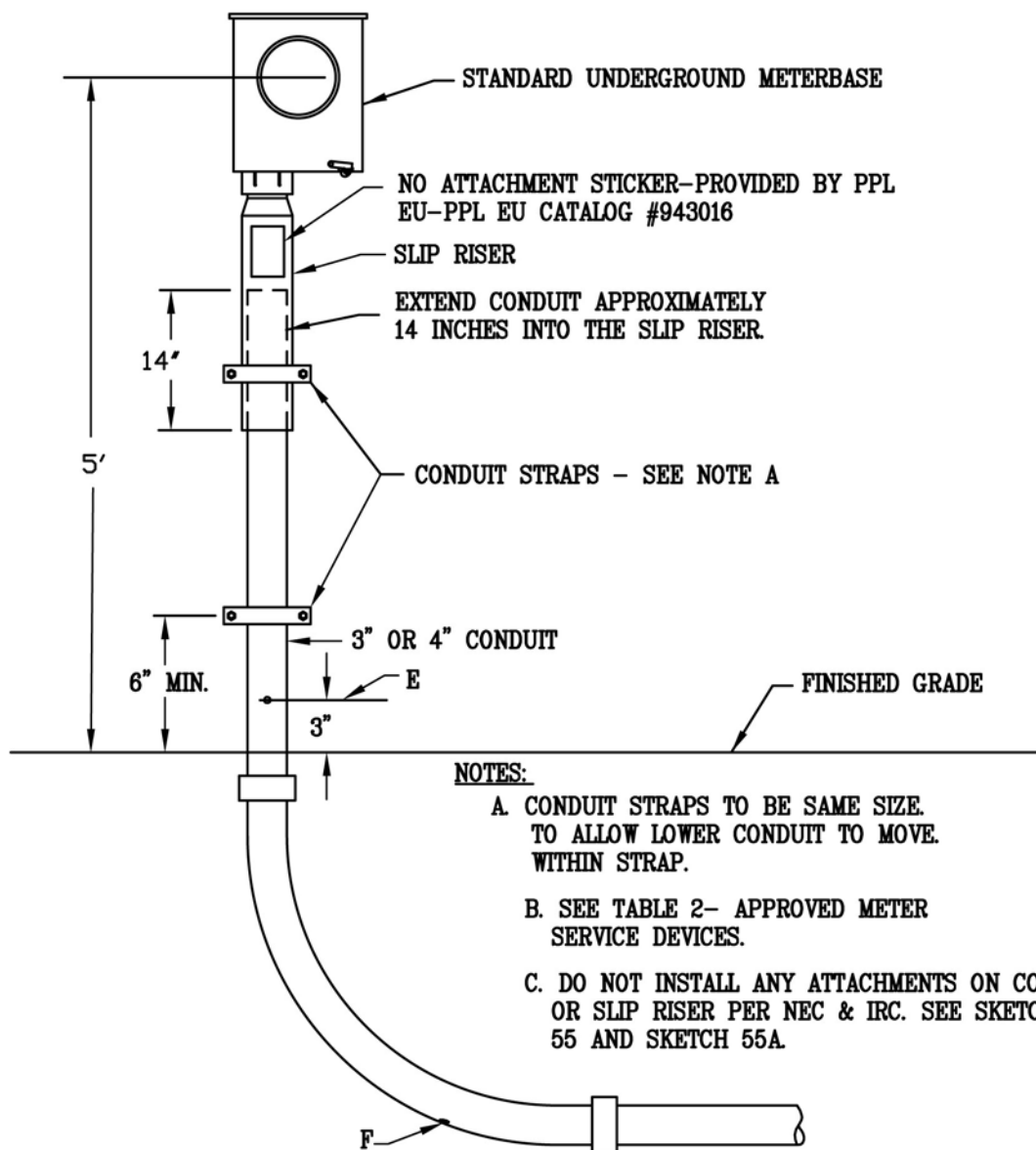
- A. CUSTOMER EXCAVATES, PROVIDES SELECT BACKFILL AND PPL EU SPECIFIES CONDUIT. BACKFILLS, TAMPS IN LAYERS OVER DISTURBED EARTH NEAR BUILDING FOUNDATION TO HELP PREVENT DAMAGE TO SERVICE ENTRANCE EQUIPMENT DUE TO GROUND SETTLING AND RESTORES SURFACE OF TRENCH FROM BASE OF POLE TO BUILDING.

SERVED FROM
OVERHEAD OR
PAD-MOUNT
TRANSFORMER

*REF: CRS 6-19-133 & CRS 6-19-134 & SKETCH #7A

RULES: 5, 6, 10, 11B, 13, & 14 AC

REV	DATE	APPROVED			RULES FOR ELECTRIC METER AND SERVICE INSTALLATIONS
		Drafter	Sponsor	Review	
0	2-2015	JJA	MP		PPL ELECTRIC UTILITIES CORPORATION



- D. 50" MINIMUM CLEAR SPACE IN FRONT OF METER BASE. SEE RULE 13, SKETCH 55 AND SKETCH 55A (SIDE VIEW).
- E. DRILL TWO (2) 1/4" HOLES IN BACK OF CONDUIT 3" ABOVE GROUND PRIOR TO PULLING CABLE.
- F. DRILL TWO (2) 1/4" HOLES IN BOTTOMSIDE OF ELBOW PRIOR TO PULLING CABLE.
- G. SEE APPROVED SLIP RISER TABLE.

REFERENCE: CRS 6-19-133, CRS 6-19-134, SKETCH 55 & SKETCH 55A

RULES FOR ELECTRIC METER AND SERVICE
INSTALLATIONS

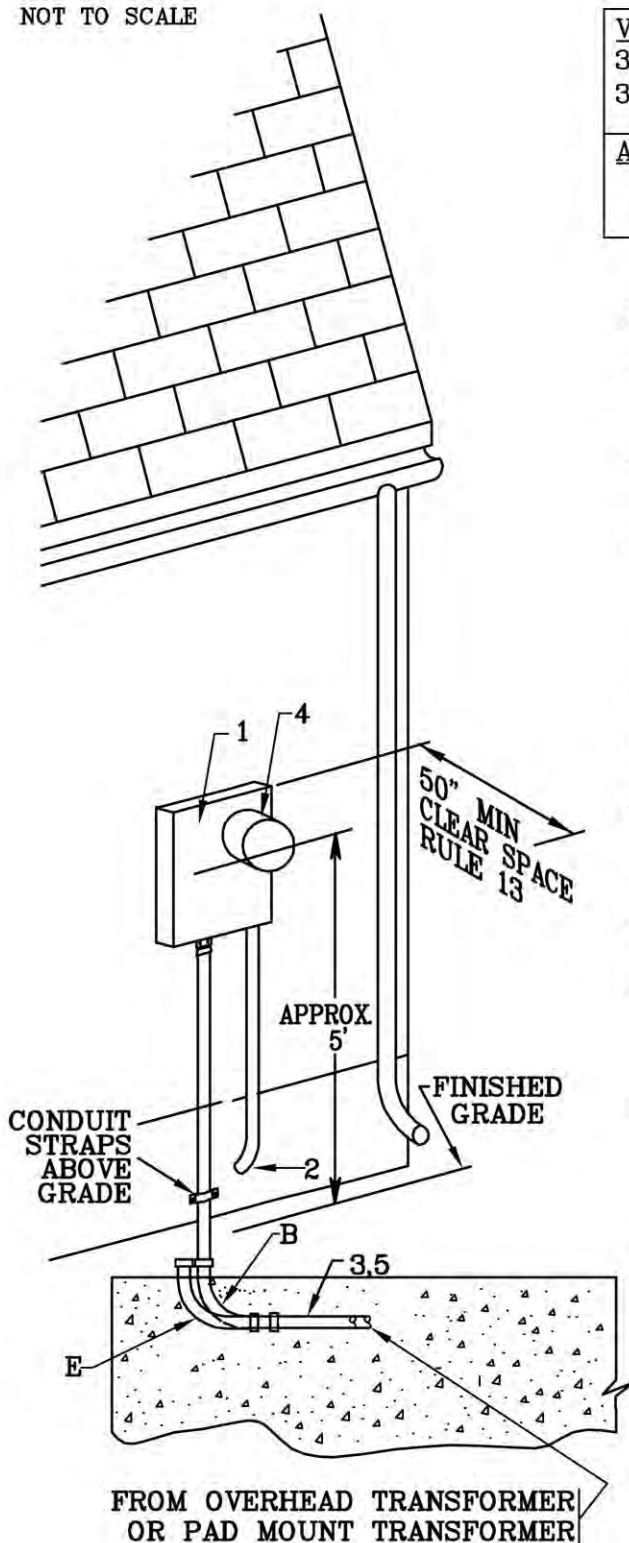
**PPL ELECTRIC UTILITIES
CORPORATION**

Rules: 5, 6, 10, 11B, 13, 14

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Date: 3/13/14 **Engr:** JCC

NOT TO SCALE

VOLTAGE:

3 Phase, 4 Wire, 120/208V
3 Phase, 4 Wire, 120/240V

SERVICE TYPE:

Underground

AMPERAGE:

600 A Maximum

METER BASE LOCATION:

Outdoor

CUSTOMER FURNISHES, INSTALLS, MAINTAINS:

1. UNDERGROUND METER BASE APPROVED BY PPL EU
SEE TABLE 4 – 3 PHASE
2. SERVICE ENTRANCE CABLE OR CONDUCTORS IN
CONDUIT. SEE RULE 5.
3. CUSTOMER INSTALLED CONDUIT SYSTEM CAN BE
EITHER STEEL, OR GRAY SCHEDULE 40 PVC (SEE
NOTE B) ENCASED IN CONCRETE FOR THE FULL
LENGTH OF THE RUN, OR DIRECTLY BUIRED STEEL.

PPL EU FURNISHES, INSTALLS, MAINTAINS:

4. METER CL200(200A), CL320(400A), CL480(600A)
5. SERVICE LATERAL CONDUCTORS INSTALLED INSIDE
OF CUSTOMER SUPPLIED CONDUIT TERMINATING IN
METER BASE.

NOTES:

- A. PPL EU WILL SPECIFY CONDUIT SIZE FROM
TRANSFORMER TO METER BASE AND PROVIDE
FAULT CURRENT (ARC).
- B. ELBOW MUST BE STEEL TO PREVENT PVC TO
STEEL COUPLING FROM BREAKING, ENCASE
LOWER HALF OF THE STEEL ELBOW IN
CONCRETE.
- C. IF DIRECT BURIED STEEL, CUSTOMER EXCAVATES,
PROVIDES SELECT BACKFILL, BACKFILLS, TAMPS
IN LAYERS OVER DISTURBED EARTH NEAR
BUILDING FOUNDATION TO HELP PREVENT
DAMAGE TO SERVICE ENTRANCE EQUIPMENT DUE
TO GROUND SETTLING AND RESTORE SURFACE OF
TRENCH FROM BASE OF POLE TO BUILDING.
- D. ALL EQUIPMENT MUST BE SECURELY MOUNTED TO
2" NOMINAL LUMBER OR MASONRY CONSTRUCTION.
- E. SPARE CONDUIT, MEETING REQUIREMENTS IN ITEM
3 ABOVE REQUIRED

*REFERENCE CRS 6-19-133 & CRS 6-19-134

RULES FOR ELECTRIC METER AND SERVICE
INSTALLATIONS

**PPL ELECTRIC UTILITIES
CORPORATION**

Rules: 5, 6, 10, 11B, 13, 14

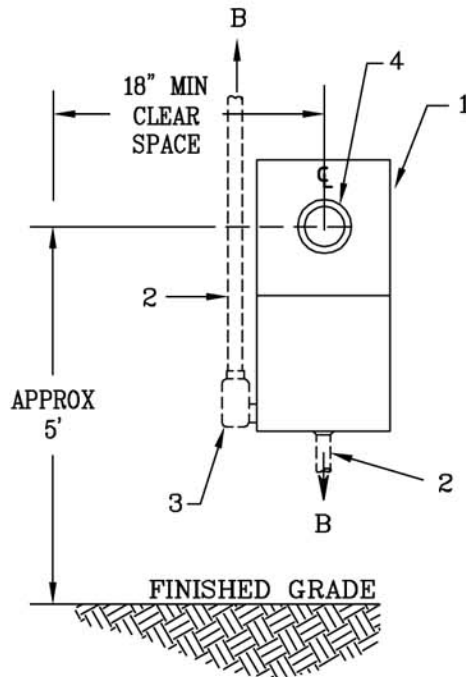
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Date: 3/18/11 **Engr:** MDB

NOT TO SCALE

METER PANEL INSTALLATION

INDOOR INSTALLATION REQUIRES PRIOR APPROVAL FROM METERING SUPPORT



FURNISHED BY PPL EU AND INSTALLED BY CUSTOMER:

1. METER PANEL – LOCATION DESIGNATED BY PPL EU – MUST BE SECURELY MOUNTED TO 2" NOMINAL LUMBER OR MASONRY FINISH. DO NOT ATTACH PANEL TO THE SWITCH GEAR.

CUSTOMER FURNISHES, INSTALLS, AND MAINTAINS:

2. FOR INSTALLATION 50 FEET AND LESS, 1-1/4 INCH MINIMUM THREADED GALVANIZED OR INTERMEDIATE RIGID STEEL OR GRAY SCHEDULE 40 PVC CONDUIT AND FITTINGS BETWEEN INSTRUMENT TRANSFORMERS AND METER PANEL.

OR

FOR INSTALLATION OVER 50 FEET, APPROVAL BY METERING SUPPORT IS REQUIRED, 1½ INCH MINIMUM THREADED GALVANIZED OR INTERMEDIATE RIGID STEEL OR GRAY SCHEDULE 40 PVC CONDUIT (WITH NO MORE THEN THREE 90 DEGREE BENDS) AND FITTINGS BETWEEN INSTRUMENT TRANSFORMERS AND METER PANEL.

3. CONDUIT BODY/CONDULET.

PPL EU FURNISHES AND INSTALLS:

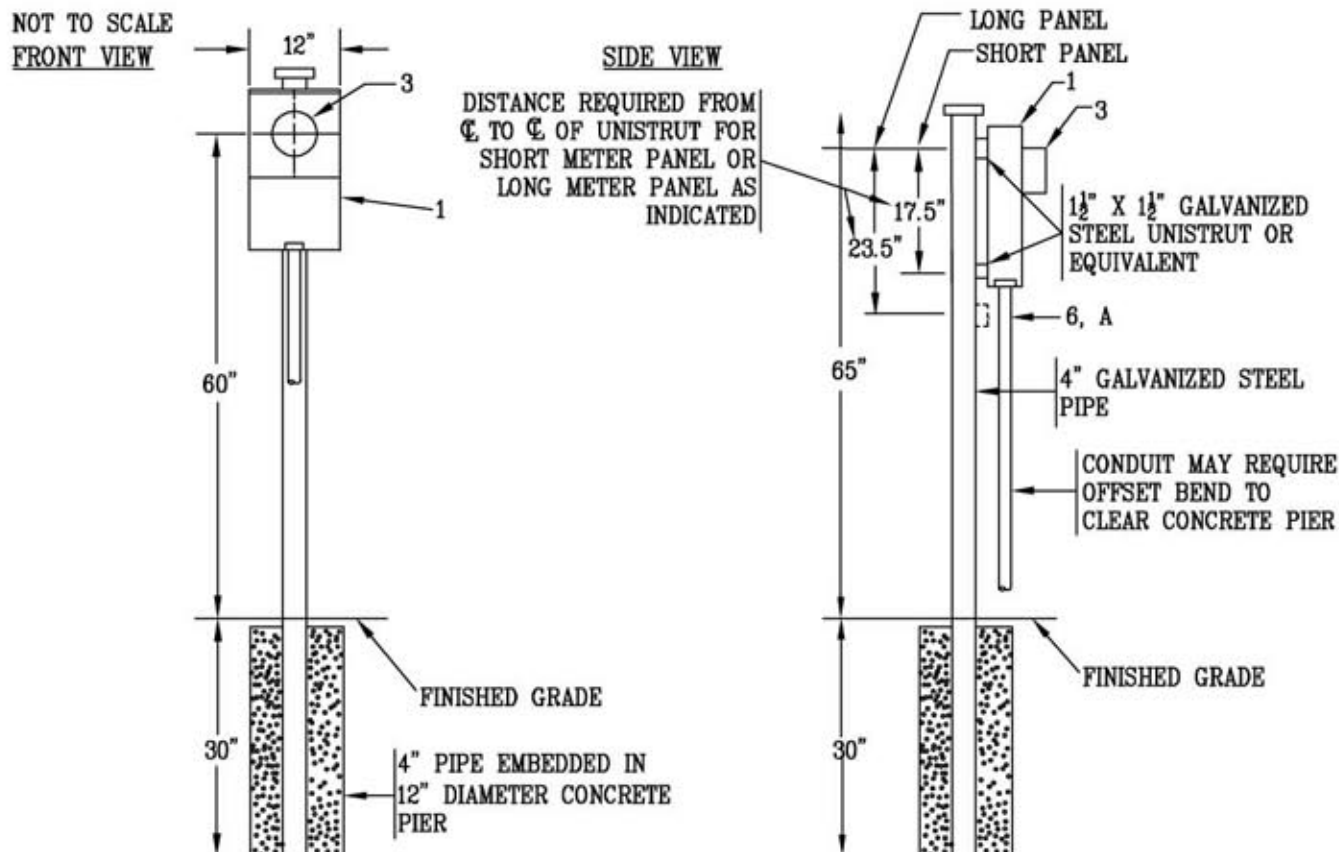
4. METER
5. WIRING BETWEEN INSTRUMENT TRANSFORMERS AND THE METER PANEL. SEE RULE 15.

NOTES:

- A. PROVIDE WALL SPACE 40 INCHES BY 40 INCHES FOR METER PANEL. ALLOW CLEAR SPACE, 18 INCHES MINIMUM, TO LEFT OF METER. SEE RULE 13 FOR OTHER CLEARANCES.
- B. CONDUIT ENTRANCE POINT, FROM INSTRUMENT TRANSFORMERS, AS APPROPRIATE.

Typical Meter Panel Mounting Arrangement For Use With Instrument Transformer Metering

SINGLE METER PANEL ARRANGEMENT



PPL EU FURNISHES, MAINTAINS, CUSTOMER INSTALLS:

1. METER PANEL - 12 INCH CLEARANCE REQUIRED ON BOTH SIDES

PPL EU FURNISHES, INSTALLS, MAINTAINS:

2. CELL PACK, EXTERNAL ANTENNA (IF REQUIRED), AND MOUNTING
3. METER
4. RELAYS

CUSTOMER FURNISHES, INSTALLS, MAINTAINS:

5. STRUCTURE (UNISTRUT, POLES, CONCRETE, ETC.)
6. CONDUIT - SEE NOTE A FOR MORE DETAILS

NOTES:

- A. FOR METERING CONDUIT RUN 50 FEET OR LESS - 1 1/4" MINIMUM GALVANIZED RIGID OR INTERMEDIATE STEEL OR GRAY SCHEDULE 40 PVC CONDUIT AND FITTINGS BETWEEN METER PANEL AND INSTRUMENT TRANSFORMERS.
- B. FOR METERING CONDUIT RUN OVER 50 FEET APPROVAL FROM METERING SUPPORT REQUIRED. SEE RULE 15H FOR MORE DETAIL.
- C. SEE BARRIER SKETCH #20 AS REQUIRED BY PPL EU.

* REFERENCE SKETCH #8C, SKETCH #20

RULES FOR ELECTRIC METER AND SERVICE
INSTALLATIONS
**PPL ELECTRIC UTILITIES
CORPORATION**

Rules: 13, 15, 18

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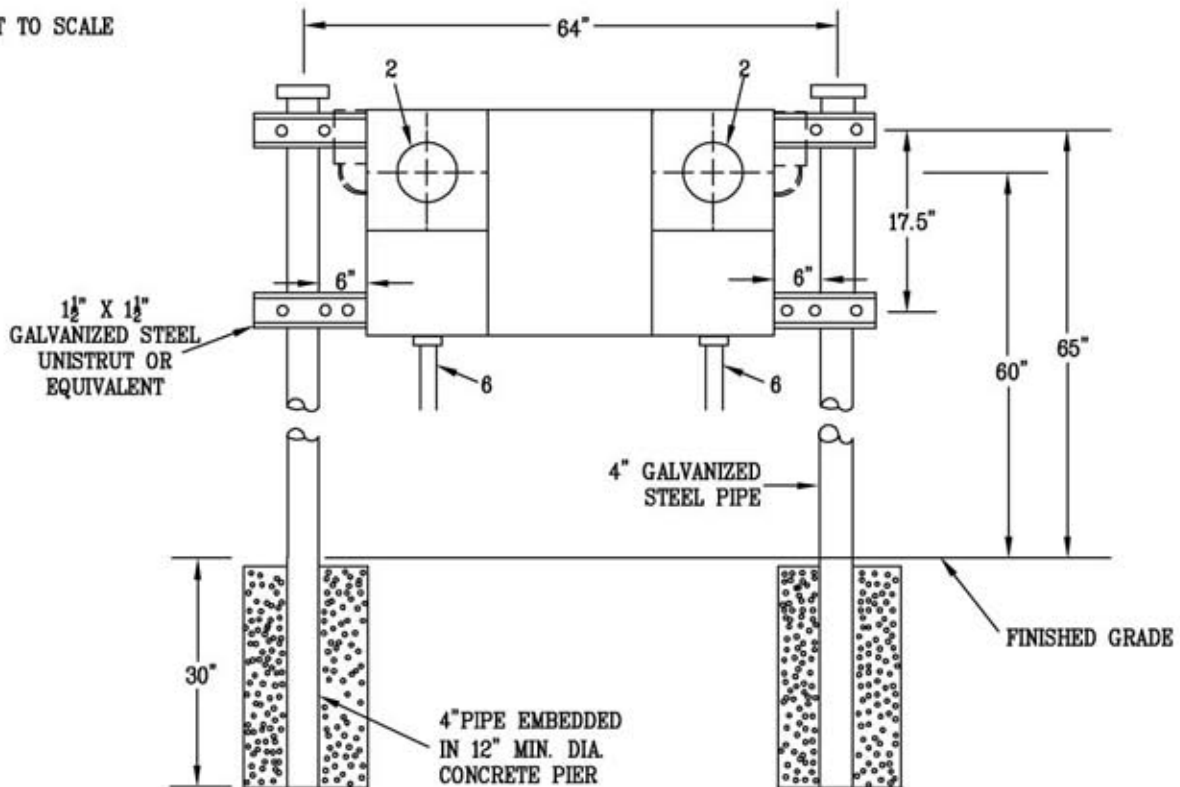
Date: 8/12/11 **Engr:** MDB

Date: 8/12/11 **Engr:** MDB

Typical Meter Panel Mounting Arrangement For Use With Instrument Transformer Metering

DUAL METER PANEL/AUXILIARY BOX COMBO (2 METERS) ARRANGEMENT

NOT TO SCALE



PPL EU FURNISHES, MAINTAINS, CUSTOMER INSTALLS:

1. DUAL METER PANEL/AUXILIARY BOX COMBO

PPL EU FURNISHES, INSTALLS, MAINTAINS:

2. METER
3. RELAYS
4. DEMAND PULSE BOX (OPTIONAL)

CUSTOMER FURNISHES, INSTALLS, MAINTAINS:

5. STRUCTURE (UNISTRUT, POLES, CONCRETE, ETC.)
6. CONDUIT

NOTES:

- A. FOR METERING CONDUIT RUN 50 FEET OR LESS - 1 1/2" MINIMUM GALVANIZED RIGID OR INTERMEDIATE STEEL OR GRAY SCHEDULE 40 PVC CONDUIT AND FITTINGS BETWEEN METER PANEL AND INSTRUMENT TRANSFORMERS.
- B. FOR METERING CONDUIT RUNS OVER 50 FEET - APPROVAL FROM METERING SUPPORT REQUIRED. SEE RULE 15H FOR MORE DETAIL.
- C. SEE BARRIER SKETCH #20 AS REQUIRED BY PPL EU.

* REFERENCE: SKETCH #8C, SKETCH #20

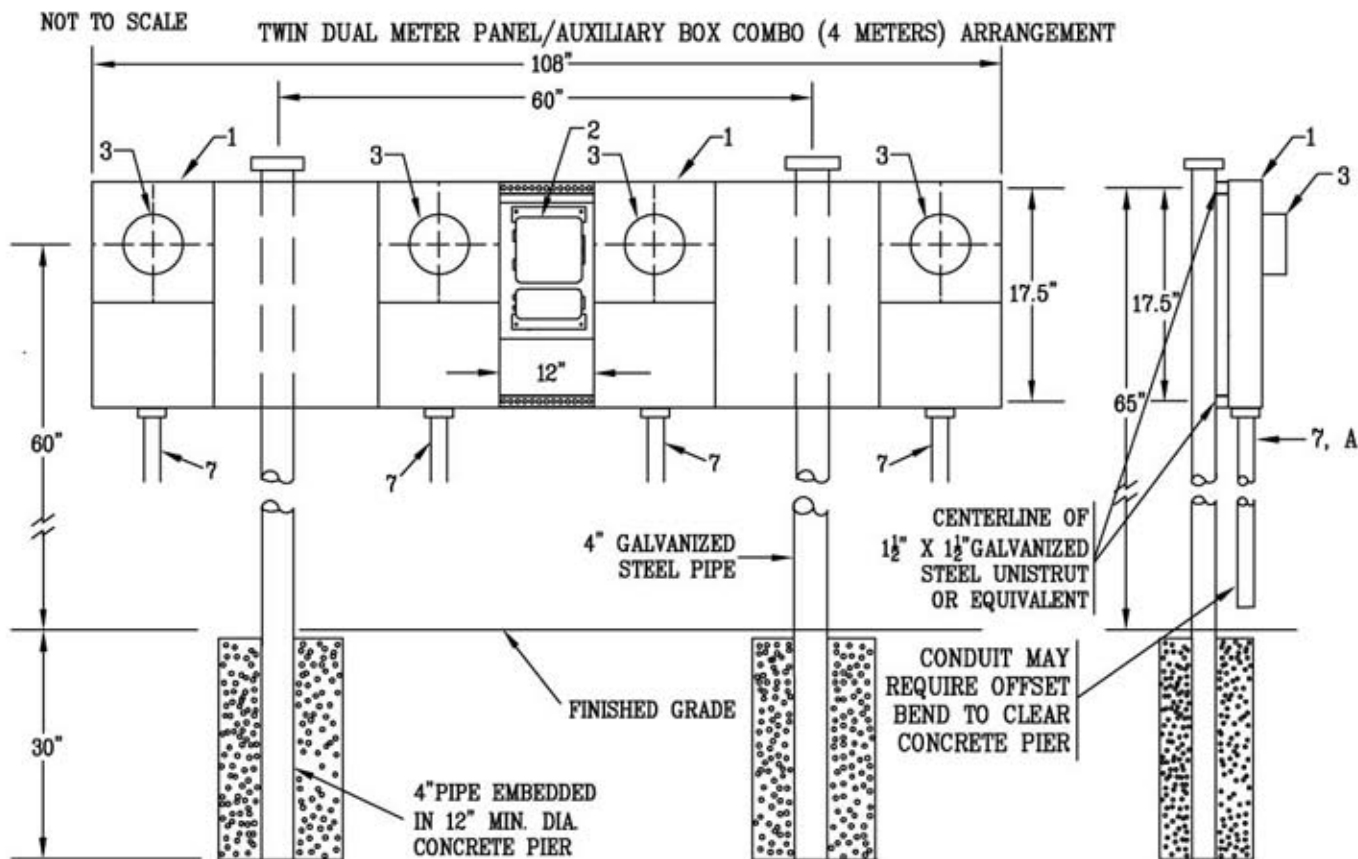
RULES FOR ELECTRIC METER AND SERVICE
INSTALLATIONS
**PPL ELECTRIC UTILITIES
CORPORATION**

Rules: 13, 15, 18

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Date: 8/12/11 **Engr:** MDB

Typical Meter Panel Mounting Arrangement
For Use With Instrument Transformer
Metering



PPL EU FURNISHES, MAINTAINS, CUSTOMER INSTALLS:

1. DUAL METER PANEL/AUXILIARY BOX COMBO

PPL EU FURNISHES, INSTALLS, MAINTAINS:

2. CELL PACK, EXTERNAL ANTENNA (IF REQUIRED)
3. METER
4. ANY RELAYS REQUIRED
5. DEMAND PULSE BOX (OPTIONAL)

CUSTOMER FURNISHES, INSTALLS, MAINTAINS:

6. STRUCTURE (UNISTRUT, POLES, CONCRETE, ETC.)
7. CONDUIT

NOTES:

- A. FOR METERING CONDUIT RUN 50 FEET OR LESS - 1½" MINIMUM GALVANIZED RIGID OR INTERMEDIATE STEEL OR GRAY SCHEDULE 40 PVC CONDUIT AND FITTINGS BETWEEN METER PANEL AND INSTRUMENT TRANSFORMERS.
- B. FOR METERING CONDUIT RUNS OVER 50 FEET - APPROVAL FROM METERING SUPPORT REQUIRED. SEE RULE 15H FOR MORE DETAIL.
- C. SEE BARRIER SKETCH #20 AS REQUIRED BY PPL EU.

* REFERENCE: SKETCH #8C, SKETCH #20

RULES FOR ELECTRIC METER AND SERVICE
INSTALLATIONS
**PPL ELECTRIC UTILITIES
CORPORATION**

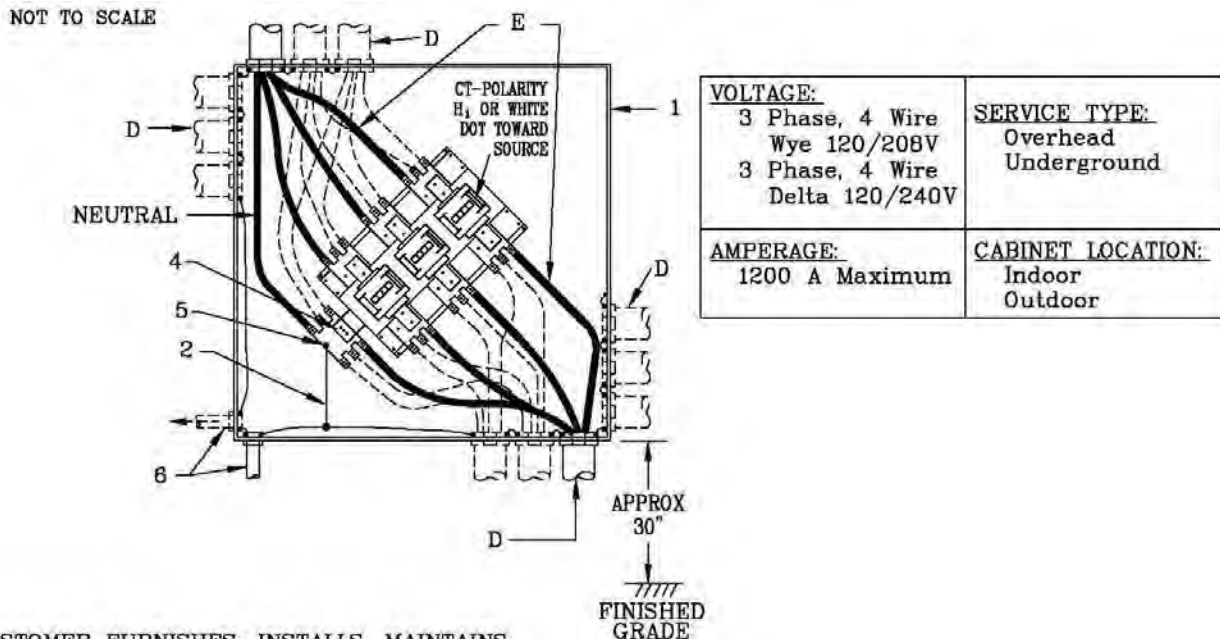
Rules: 13, 15, 18

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Date: 8/12/11 **Engr:** MDB

Sketch #14 Typical arrangement of instrument transformers and mounting for installation in instrument transformer cabinet

3 phase, 4 wire, 208Y/120 volts or 3 phase, 4 wire, Delta 240/120 volts, 1200 ampere maximum



CUSTOMER FURNISHES, INSTALLS, MAINTAINS:

1. SEALABLE METAL CABINET MINIMUM SIZE 48 INCHES BY 48 INCHES BY 12 INCHES (SEE TABLES 3 AND 4 - APPROVED INSTRUMENT TRANSFORMER CABINET) AND INSTALLS INSTRUMENT TRANSFORMERS AND MOUNTING FURNISHED BY PPL EU. MOUNT ON 45° ANGLE TO ELIMINATE SHARP BENDS IN CABLES. GROUP CONDUITS IN CORNER OF CABINET.
2. BONDING JUMPER PER NEC ARTICLE 250 - GROUNDING. BONDING JUMPER SIZE 1/0 COPPER.
3. GROUNDING BUSHING SHALL BE ATTACHED TO ALL METAL CONDUITS. THE CONDUITS SHALL BE BONDED TOGETHER, TO THE CABINET AND TO THE NEUTRAL BUS.

PPL EU FURNISHES, INSTALLS, MAINTAINS:

4. TERMINAL FOR METERING NEUTRALS
 5. STUD FOR BONDING JUMPER
- CUSTOMER FURNISHES, INSTALLS, PPL EU MAINTAINS:

6. CONDUIT TO METER PANEL SEE SKETCH #8C AND RULE 15

PPL EU FURNISHES, MAINTAINS, CUSTOMER INSTALLS:

7. CURRENT TRANSFORMERS (CTS) CT MOUNTING BRIDGE.

NOTES:

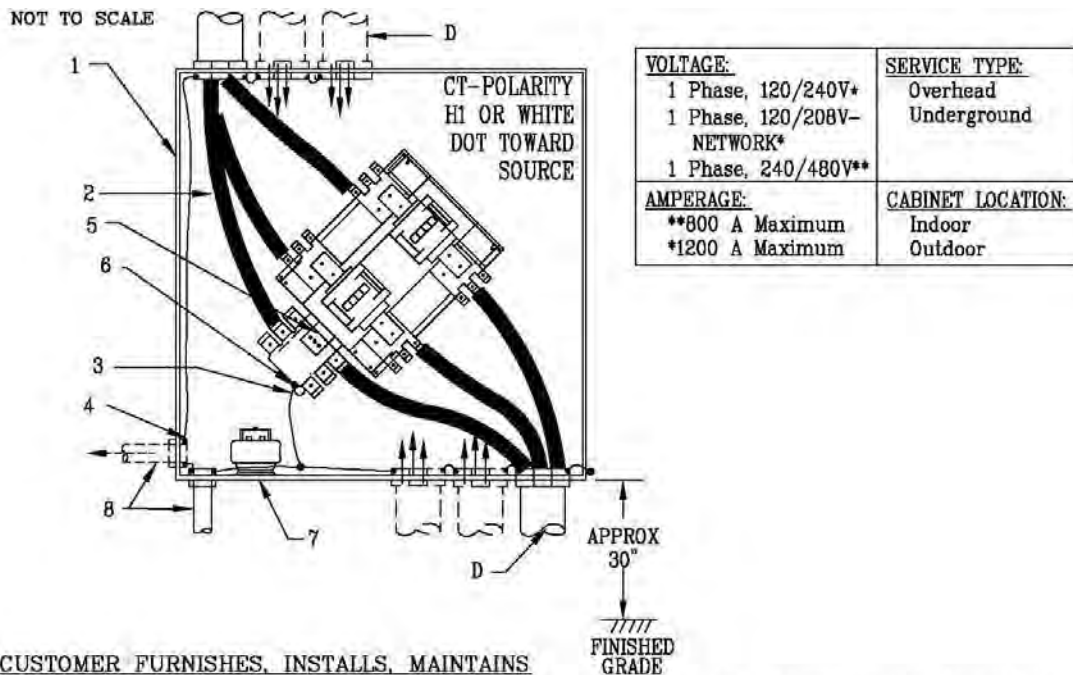
- A. MAXIMUM AMPACITY OF EACH CT MOUNTING CONNECTOR IS 400 AMPERES. EACH CONNECTOR CAN ACCOMMODATE ONE COPPER OR ALUMINUM CONDUCTOR WIRE RANGE FROM 300 TO 750 KCMIL.
- B. MAXIMUM TIGHTENING TORQUE ON THE CT MOUNTING WIRE CONNECTION 450 INCH-POUNDS.
- C. REAR ENTRY OF CT CABINETS IS NOT PERMITTED FOR PPL EU CABLES.
- D. CONDUITS SHALL HAVE 36 INCH MINIMUM BENDING RADIUS
- E. THIS CONDUCTOR OF 3 PHASE, 4 WIRE, DELTA CONNECTED SERVICE SHALL HAVE THE HIGHER VOLTAGE TO GROUND AND BE IDENTIFIED SEE RULE 5 (G).

*REFERENCE SKETCH #8C

<p>RULES FOR ELECTRIC METER AND SERVICE INSTALLATIONS</p> <p>PPL ELECTRIC UTILITIES CORPORATION</p>	<p>Rules: 5, 13, 15</p> <p>Date: 7/18/16 Engr: NAP</p> <p style="text-align: right;">REMSI_S014.dwg</p>
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Sketch #14a Typical arrangement of instrument transformers and mounting for installation in instrument transformer cabinet

Single phase 120/240 volt or 240/208 volt, Network – 800 to 1200 ampere, Single phase 240/480 volt 600 to 800 ampere



CUSTOMER FURNISHES, INSTALLS, MAINTAINS

1. SEALABLE METAL CABINET MINIMUM SIZE 48 INCHES BY 48 INCHES BY 12 INCHES (SEE TABLES 3 AND 4 – APPROVED INSTRUMENT TRANSFORMER CABINET) AND INSTALLS INSTRUMENT TRANSFORMERS AND MOUNTING FURNISHED BY PPL EU. MOUNT ON 45° ANGLE TO ELIMINATE SHARP BENDS IN CABLES. GROUP CONDUITS IN CORNER OF CABINET.
2. NEUTRAL
3. BONDING JUMPER PER NEC ARTICLE 250 – GROUNDING. BONDING JUMPER SIZE 1/0 COPPER.
4. GROUNDING BUSHING SHALL BE ATTACHED TO ALL METAL CONDUITS. THE CONDUITS SHALL BE BONDED TOGETHER, TO THE CABINET AND TO THE NEUTRAL BUS.

PPL EU FURNISHES INSTALLS, MAINTAINS:

5. TERMINAL FOR METERING NEUTRALS
6. STUD FOR BONDING JUMPER
7. VOLTAGE TRANSFORMERS FOR 240/480V SERVICE

CUSTOMER FURNISHES, INSTALLS, PPL EU MAINTAINS:

8. CONDUIT TO METER PANEL SEE SKETCH #8C AND RULE 15

NOTES:

- A. MAXIMUM AMPACITY OF EACH CT MOUNTING CONNECTOR IS 400 AMPERES. EACH CONNECTOR CAN ACCOMMODATE ONE COPPER OR ALUMINUM CONDUCTOR WIRE RANGE FROM 300 TO 750 KCMIL.
- B. MAXIMUM TIGHTENING TORQUE ON THE CT MOUNTING WIRE CONNECTION 450 INCH-POUNDS.
- C. REAR ENTRY OF CT CABINETS IS NOT PERMITTED FOR PPL EU CABLES.
- D. CONDUITS SHALL HAVE 36 INCH MINIMUM BENDING RADIUS

*REFERENCE SKETCH #8C
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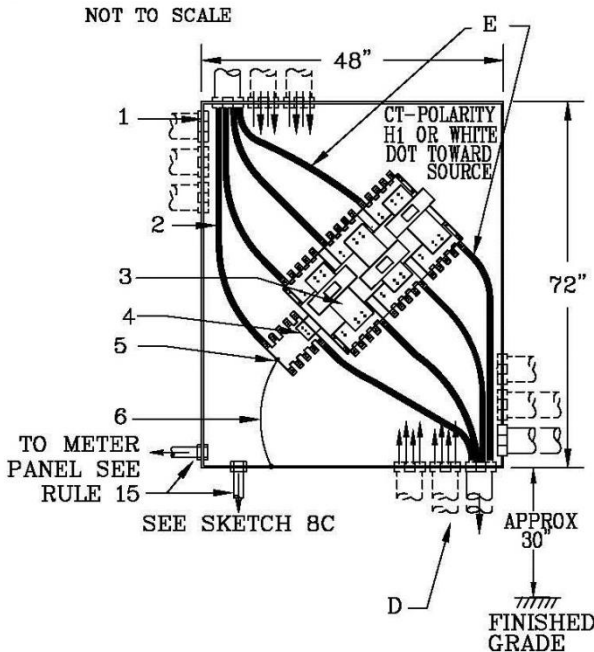
RULES FOR ELECTRIC METER AND SERVICE
INSTALLATIONS
**PPL ELECTRIC UTILITIES
CORPORATION**

Rules: 5, 13, 15

Date: 7/18/16 **Engr:** NAP

Sketch #14b Typical arrangement of instrument transformers and mounting for installation in instrument transformer cabinet

3 phase, 4 wire, 208Y/120 volts or 3 phase, 4 wire, Delta 240/120 volts, 2000 Ampere Maximum



<u>VOLTAGE:</u> 3 Phase, 4 Wire Wye 120/208V 3 Phase, 4 Wire Delta 120/240V	<u>SERVICE TYPE:</u> Overhead Underground
<u>AMPERAGE:</u> 2000 A Maximum	<u>CABINET LOCATION:</u> Indoor Outdoor

CUSTOMER FURNISHES, INSTALLS, MAINTAINS:

1. SEALABLE METAL CABINET MINIMUM SIZE 48 INCHES BY 72 INCHES BY 12 INCHES (SEE TABLES 5 AND 6 - APPROVED INSTRUMENT TRANSFORMER CABINET) AND INSTALLS INSTRUMENT TRANSFORMERS AND MOUNTING FURNISHED BY PPL EU. MOUNT ON 45° ANGLE TO ELIMINATE SHARP BENDS IN CABLES. GROUP CONDUITS IN CORNER OF CABINET.

2. NEUTRAL

3. FILLER BARS PROVIDED BY PPL EU AND INSTALLED BY CUSTOMER.

PPL EU FURNISHES INSTALLS, MAINTAINS:

4. TERMINAL FOR METERING NEUTRALS

5. STUD FOR BONDING JUMPER

CUSTOMER FURNISHES, INSTALLS, PPL EU MAINTAINS:

6. BONDING JUMPER PER NEC ARTICLE 250-GROUNDING. ALL METALLIC CONDUITS CONDUITS MUST BE BONDED TOGETHER AND TO THE CABINET. BONDING JUMPER SIZE 1/0 COPPER.

NOTES:

- A. MAXIMUM AMPACITY OF EACH CT MOUNTING CONNECTOR IS 400 AMPERES. EACH CONNECTOR CAN ACCOMMODATE ONE COPPER OR ALUMINUM CONDUCTOR UP TO 750 KCMIL.
- B. MAXIMUM TIGHTENING TORQUE ON THE CT MOUNTING 450 INCH-POUNDS.
- C. REAR ENTRY OF CT CABINETS IS NOT PERMITTED FOR PPL EU CABLES.
- D. CONDUITS SHALL HAVE 36 INCH MINIMUM BENDING RADIUS.
- E. THIS CONDUCTOR OF 3 PHASE, 4 WIRE, DELTA CONNECTED SERVICE SHALL HAVE THE HIGHER VOLTAGE TO GROUND AND BE IDENTIFIED SEE RULE 5 (G).

RULES FOR ELECTRIC METER AND SERVICE
 INSTALLATIONS
**PPL ELECTRIC UTILITIES
 CORPORATION**

Rules: 5, 13, 15

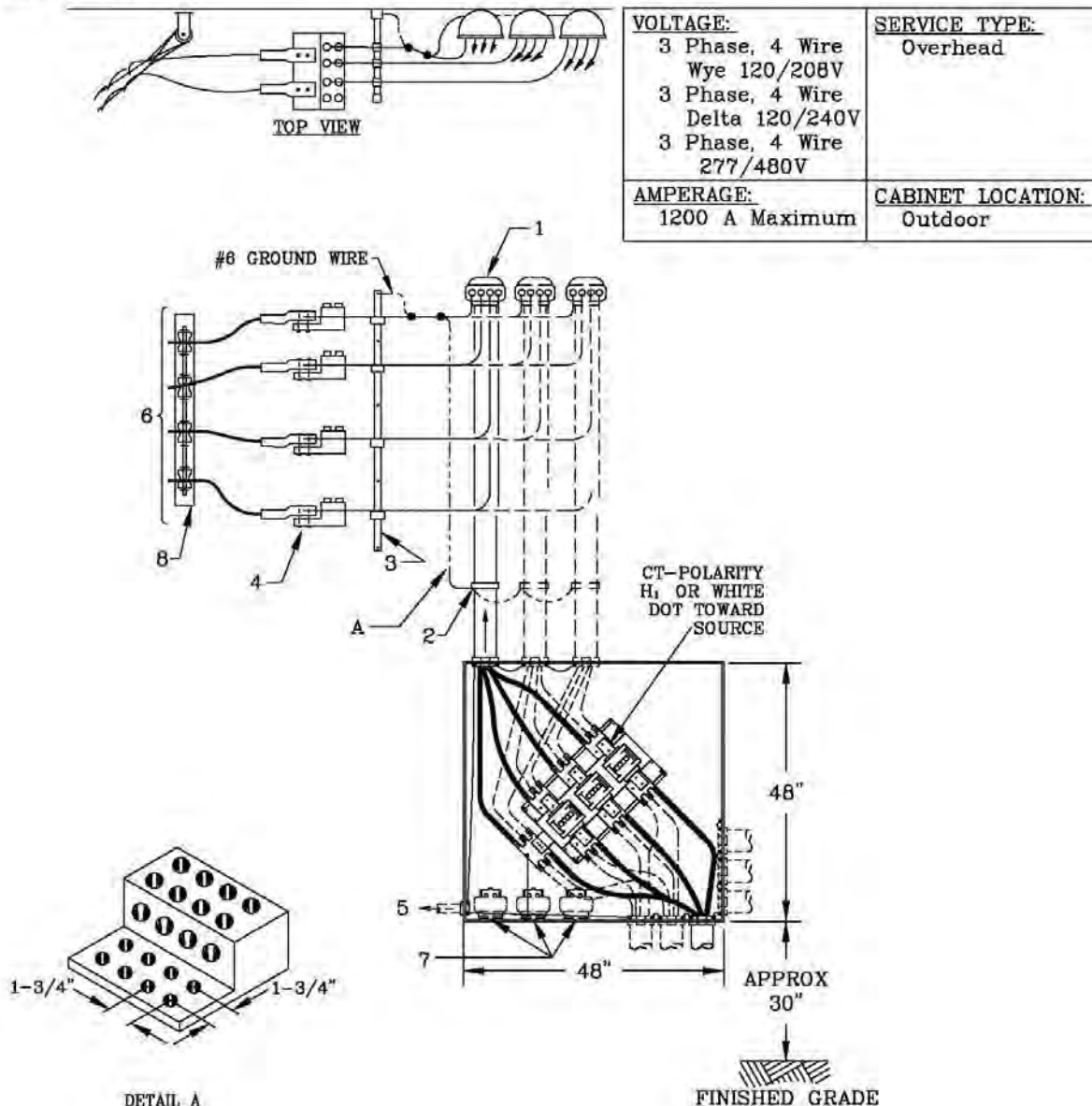
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Date: 7/18/16 **Engr:** NAP

Sketch #14c Typical arrangement of overhead instrument transformers and mounting for installation in instrument transformer cabinet

3 phase, 4 wire, 208Y/120 volts or 3 phase, 4 wire, Delta 240/120 volts or 3 phase, 4 wire, 480/277 volts
1200 Ampere Maximum

NOT TO SCALE



*REFERENCE: SKETCH #8C, SKETCH #44, SKETCH #49

RULES FOR ELECTRIC METER AND SERVICE
INSTALLATIONS
**PPL ELECTRIC UTILITIES
CORPORATION**

Rules: 5, 13, 15

Date: 7/18/16 **Engr:** NAP

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Sketch #14c Typical arrangement of overhead instrument transformers and mounting for installation in instrument transformer cabinet (cont.)

CUSTOMER FURNISHES, INSTALLS, MAINTAINS

1. SERVICE ENTRANCE SEE RULE 5.
2. GROUND CLAMPS.
3. CABLE SUPPORT RACK.
4. LUG CONNECTORS. SEE DETAIL A OR SKETCH #49 FOR ALTERNATIVE CONNECTORS.
5. CONDUIT TO METER PANEL, SEE SKETCH #8C AND RULE 15.

PPL EU FURNISHES, INSTALLS, MAINTAINS

6. SERVICE DROP AND MAKES CONNECTION TO CUSTOMER'S SERVICE ENTRANCE CONDUCTORS. MAXIMUM TENSION PER CONDUCTOR.
7. VOLTAGE TRANSFORMER FOR 480/277V SERVICE ONLY.

PPL EU FURNISHES: CUSTOMER INSTALLS, MAINTAINS

8. SERVICE RACK OR BRACKET

NOTES:

- A. PPL EU MAKES GROUNDING CONNECTION FOR METAL CONDUIT.
- B. SEE SKETCH #44 FOR INSTRUMENT TRANSFORMER CABINET NOTES.
- C. SEE SKETCH #49 FOR 'DETAIL A'.

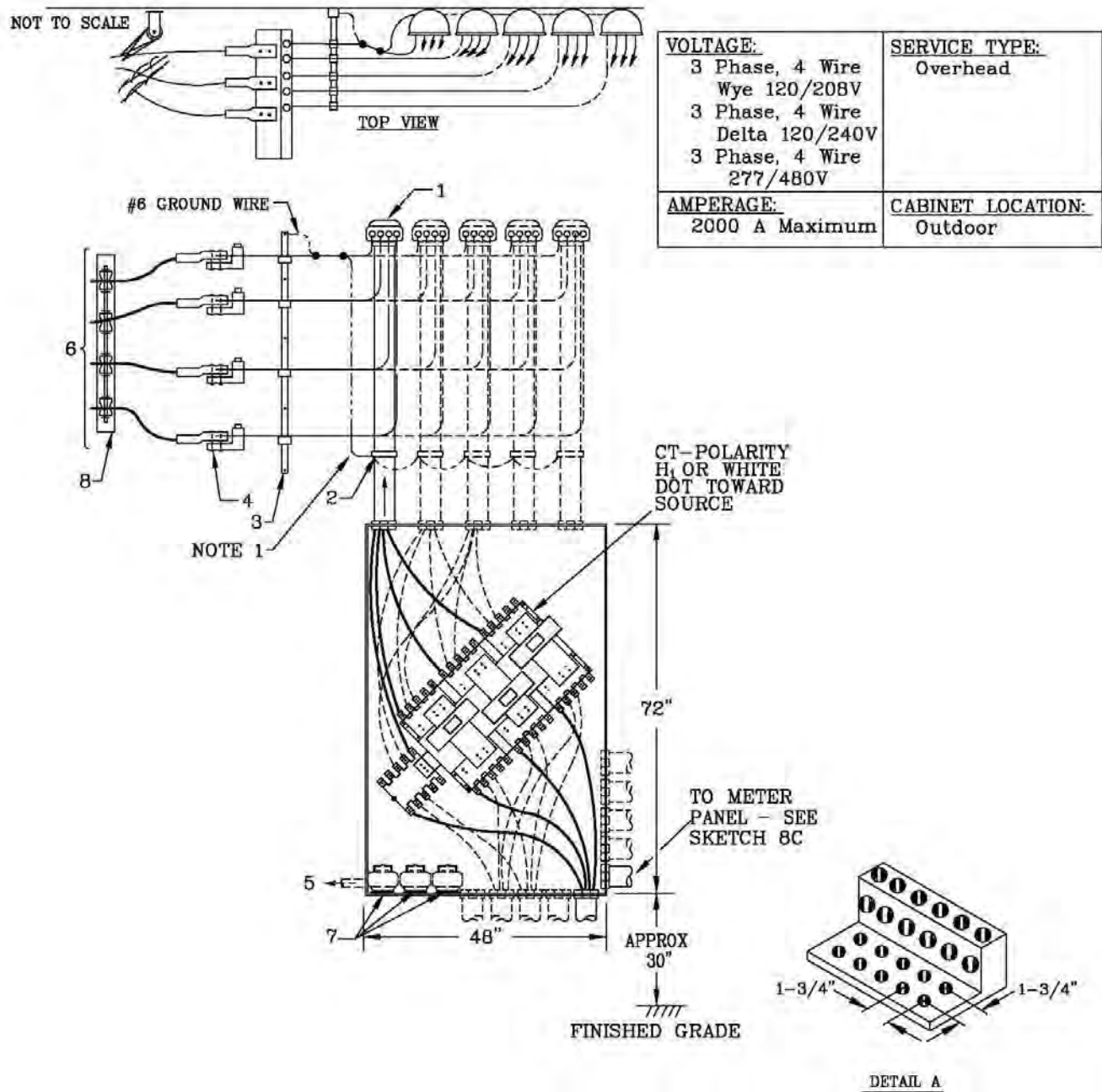
*REFERENCE: SKETCH #8C, SKETCH #44, SKETCH #49

<p>RULES FOR ELECTRIC METER AND SERVICE INSTALLATIONS</p> <p>PPL ELECTRIC UTILITIES CORPORATION</p>	<p>Rules: 5, 13, 15</p> <p>Date: <u>7/18/16</u> Engr: <u>NAP</u></p>
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Sketch #14d Typical arrangement of overhead instrument transformers and mounting for installation in instrument transformer cabinet

3 phase, 4 wire, 208Y/120 volts or 3 phase, 4 wire, Delta 240/120 volts or 3 phase, 4 wire, 480/277 volts
2000 Ampere Maximum



RULES FOR ELECTRIC METER AND SERVICE
INSTALLATIONS
**PPL ELECTRIC UTILITIES
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Rules: 5, 13, 15

Date: 7/18/16 **Engr:** NAP

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REMSI Sketches 1-25
Sketch #14d
6-50

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Custom ID: DCS 6-50
Revision: 01
Effective Date: 09/19/2016
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Sketch #14d Typical arrangement of overhead instrument transformers and mounting for installation in instrument transformer cabinet (cont.)

CUSTOMER FURNISHES, INSTALLS, MAINTAINS

1. SERVICE ENTRANCE, SEE RULE 5.
2. GROUND CLAMPS.
3. CABLE SUPPORT RACK.
4. LUG CONNECTORS. SEE DETAIL A OR SKETCH #49 FOR ALTERNATIVE CONNECTORS.
5. CONDUIT TO METER PANEL, SEE SKETCH #8C AND RULE 15.

PPL EU FURNISHES, INSTALLS, MAINTAINS

6. SERVICE DROP AND MAKES CONNECTION TO CUSTOMER'S SERVICE ENTRANCE CONDUCTORS. MAXIMUM TENSION PER CONDUCTOR.
7. VOLTAGE TRANSFORMER FOR 480/277V SERVICE ONLY.

PPL EU FURNISHES; CUSTOMER INSTALLS, MAINTAINS

8. SERVICE RACK OR BRACKET

NOTES:

- A. PPL EU MAKES GROUNDING CONNECTION FOR METAL CONDUIT.
- B. SEE SKETCH #44 FOR INSTRUMENT TRANSFORMER CABINET NOTES.
- C. SEE SKETCH #49 FOR 'DETAIL A'.

*REFERENCE: SKETCH #8C, SKETCH #44, SKETCH #49

RULES FOR ELECTRIC METER AND SERVICE
INSTALLATIONS
**PPL ELECTRIC UTILITIES
CORPORATION**

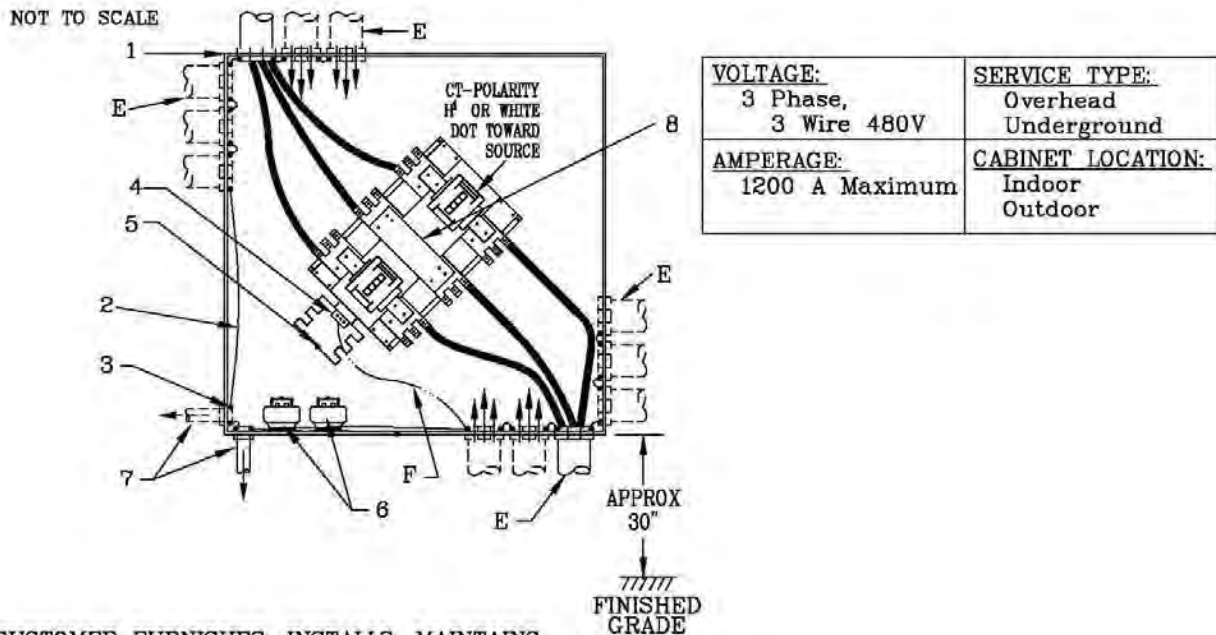
Rules: 5, 13, 15

Date: 7/18/16 **Engr:** NAP

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Sketch #15 Typical arrangement of instrument transformer and mounting for installation in instrument transformer cabinet underground

3 phase, 3 wire, 480 volts, 1200 Ampere Maximum



CUSTOMER FURNISHES, INSTALLS, MAINTAINS

1. SEALABLE METAL CABINET MINIMUM SIZE 48 INCHES BY 48 INCHES BY 12 INCHES (SEE TABLES 3 AND 4 - APPROVED INSTRUMENT TRANSFORMER CABINET) AND INSTALLS INSTRUMENT TRANSFORMERS AND MOUNTING FURNISHED BY PPL EU. MOUNT ON 45° ANGLE TO ELIMINATE SHARP BENDS IN CABLES. GROUP CONDUITS IN CORNER OF CABINET.
2. BONDING JUMPER PER NEC ARTICLE 250. BONDING JUMPER SIZE 1/0 COPPER.
3. GROUNDING BUSHING SHALL BE ATTACHED TO ALL METAL CONDUITS. THE CONDUITS SHALL BE BONDED TOGETHER, TO THE CABINET AND TO THE NEUTRAL BUS.

PPL EU FURNISHES INSTALLS, MAINTAINS:

4. TERMINAL FOR METERING NEUTRALS.
5. STUD FOR BONDING JUMPER.
6. VOLTAGE TRANSFORMERS FOR 480V SERVICE.
7. CONDUIT TO METER PANEL SEE SKETCH #8C AND RULE 15.

CUSTOMER FURNISHES, INSTALLS, PPL EU MAINTAINS:

8. FILLER BAR.

NOTES:

- A. MAXIMUM AMPACITY OF EACH CT MOUNTING CONNECTOR IS 400 AMPERES. EACH CONNECTOR CAN ACCOMMODATE ONE COPPER OR ALUMINUM CONDUCTOR WIRE RANGE FROM 300 TO 750 KCMIL.
- B. MAXIMUM TIGHTENING TORQUE ON THE CT MOUNTING WIRE CONNECTION 450 INCH-POUNDS.
- C. REAR ENTRY OF CT CABINETS IS NOT PERMITTED FOR PPL EU CABLES.
- D. CUSTOMER MUST EXTEND GROUND & BOND IT TO THE INSTRUMENT TRANSFORMER CABINET IF PLASTIC CONDUIT IS INSTALLED BETWEEN CABINET & SERVICE EQUIPMENT.
- E. CONDUITS SHALL HAVE 36 INCH MINIMUM BENDING RADIUS.
- F. GROUND WIRE NOT TO BE USED AS NEUTRAL SEE RULE 5.

*REFERENCE SKETCH #8C
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RULES FOR ELECTRIC METER AND SERVICE
INSTALLATIONS
**PPL ELECTRIC UTILITIES
CORPORATION**

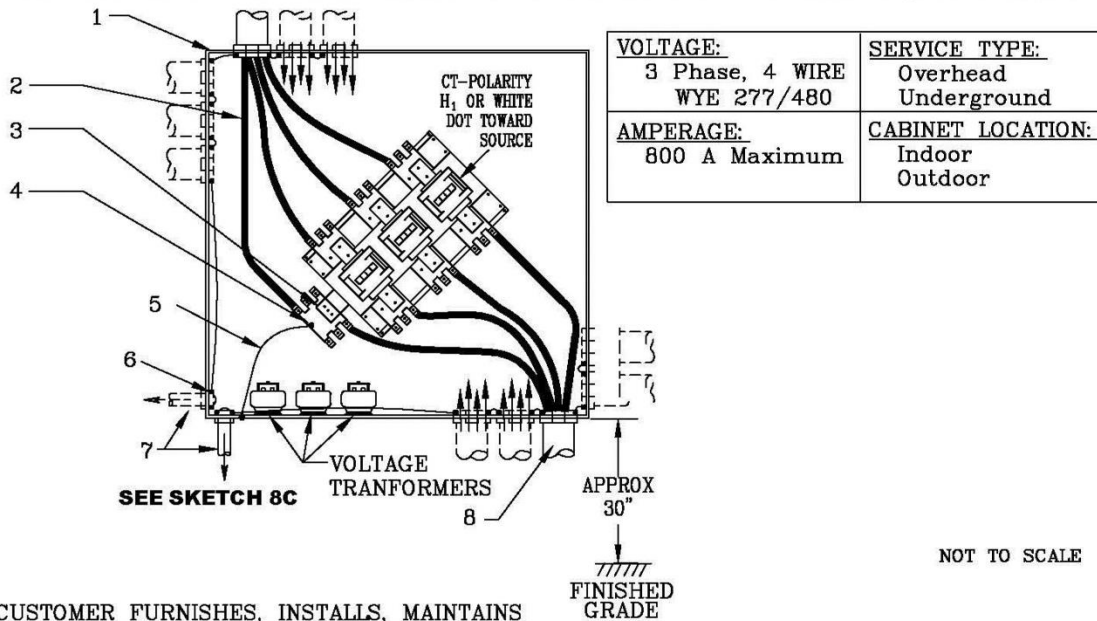
Rules: 5, 13, 15

Date: 7/18/16 **Engr:** NAP

Sketch #15a Typical arrangement of instrument transformers and mounting for installation in instrument transformer cabinet underground service

3 phase, 4 wire, Wye 277/480 volts, 800 Ampere Maximum

IF LOAD EXCEEDS 800 AMPERES, SWITCHGEAR OR INSTALLATION PER SKETCH #16A IS REQUIRED.



CUSTOMER FURNISHES, INSTALLS, MAINTAINS

1. SEALABLE METAL CABINET MINIMUM SIZE 48 INCHES BY 48 INCHES BY 12 INCHES (SEE TABLES 3 AND 4 - APPROVED INSTRUMENT TRANSFORMER CABINET) AND INSTALLS INSTRUMENT TRANSFORMERS AND MOUNTING FURNISHED BY PPL EU. MOUNT ON 45° ANGLE TO ELIMINATE SHARP BENDS IN CABLES. GROUP CONDUITS IN CORNER OF CABINET.
2. NEUTRAL
3. TERMINAL FOR METERING NEUTRALS
4. STUD FOR BONDING JUMPER

CUSTOMER FURNISHES, INSTALLS, PPL EU MAINTAINS:

5. BONDING JUMPER PER NEC ARTICLE 250 - GROUNDING. BONDING JUMPER SIZE 1/0 COPPER.
6. GROUNDING BUSHING SHALL BE ATTACHED TO ALL METAL CONDUITS. THE CONDUITS SHALL BE BONDED TOGETHER, TO THE CABINET AND TO THE NEUTRAL BUS.
7. TO METER PANEL SEE RULE 15
8. CONDUITS SHALL HAVE 36 INCH MINIMUM BENDING RADIUS

NOTES:

- A. MAXIMUM AMPACITY OF EACH CT MOUNTING CONNECTOR IS 400 AMPERES. EACH CONNECTOR CAN ACCOMMODATE ONE COPPER OR ALUMINUM CONDUCTOR FROM 300 TO 750 KCMIL.
- B. MAXIMUM TIGHTENING TORQUE ON THE CT MOUNTING WIRE CONNECTION IS 450 INCH-POUNDS.
- C. REAR ENTRY OF CT CABINETS IS NOT PERMITTED FOR PPL EU CABLES.

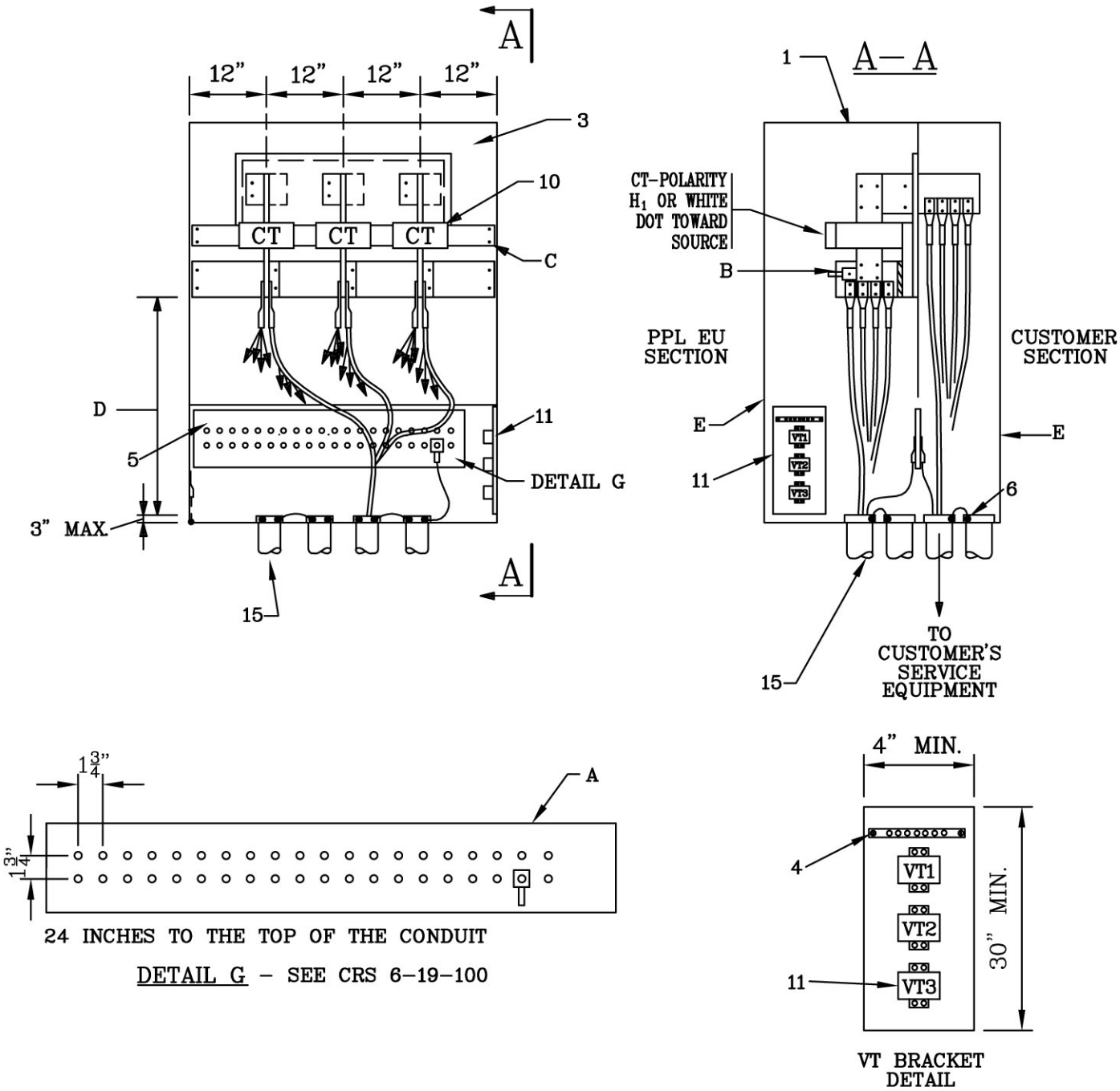
*REF: SKETCH #8C

RULES: 5, 13, 15

REV	DATE	APPROVED			RULES FOR ELECTRIC METER AND SERVICE INSTALLATIONS
		Drafter	Sponsor	Review	
0	2-2015	JJA	MP		PPL ELECTRIC UTILITIES CORPORATION
1	7/18/16	RRC	NAP		

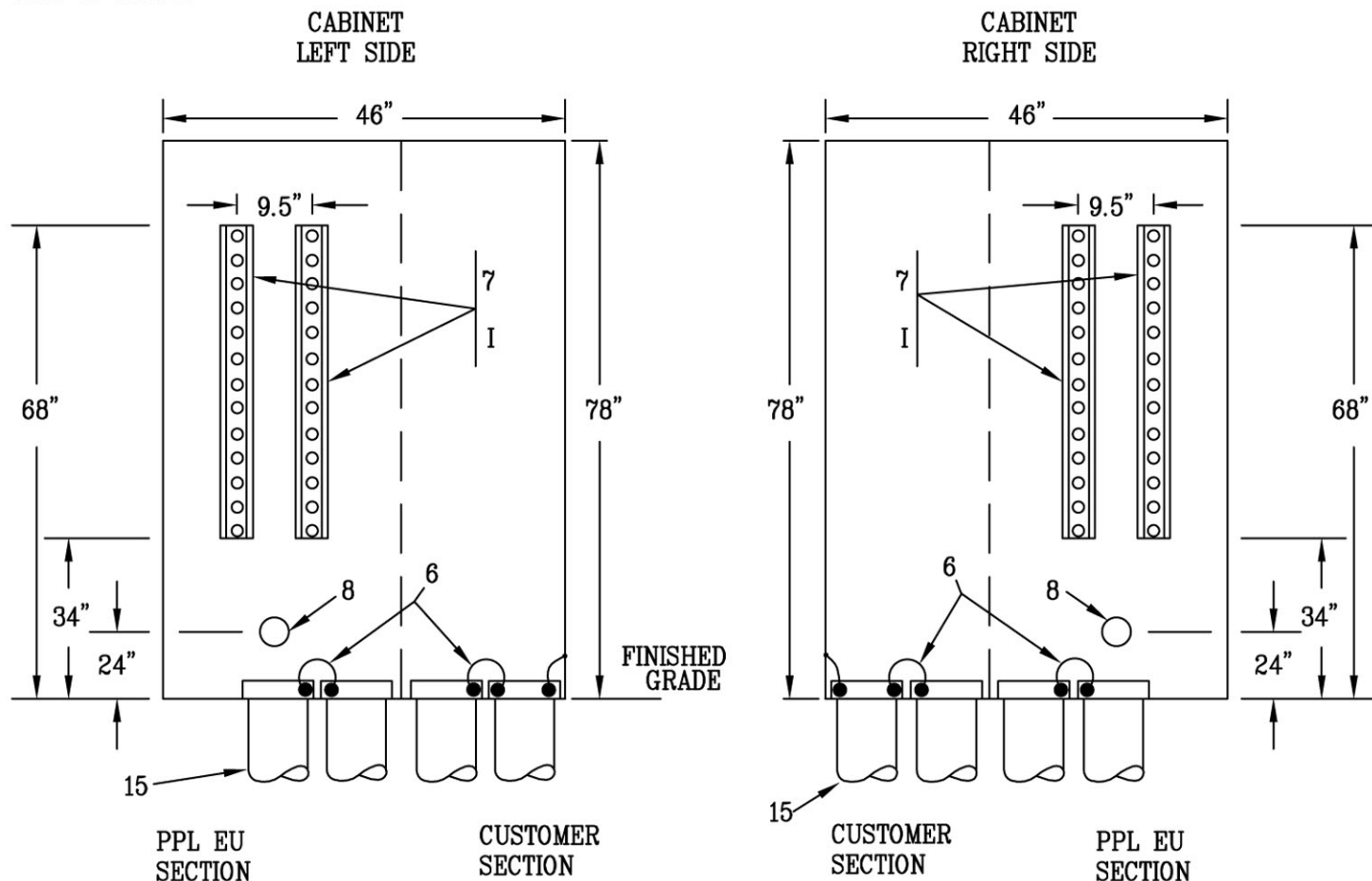
NOT TO SCALE

VOLTAGE: 3 Phase, 4 Wire Wye 120/208V 3 Phase, 4 Wire Wye 277/480V	SERVICE TYPE: Underground
AMPERAGE: 2000 A Maximum	CABINET LOCATION: Outdoor

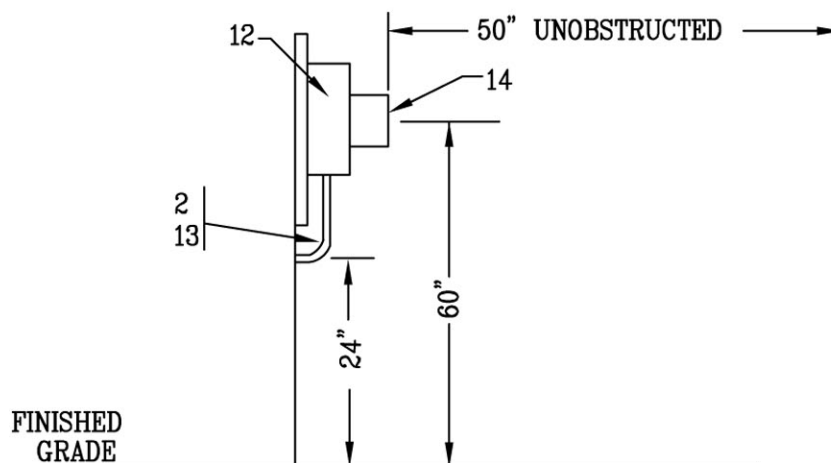


* REFERENCE: CRS 6-15-180, CRS 6-19-100, SKETCH #8C, SKETCH #8D, SKETCH #20

NOT TO SCALE



SIDE VIEW OF METER



* REFERENCE: CRS 6-15-180, CRS 6-19-100, SKETCH #8C, SKETCH #8D, SKETCH #20

RULES FOR ELECTRIC METER AND SERVICE INSTALLATIONS

**PPL ELECTRIC UTILITIES
CORPORATION**

Rules: 5, 13, 15

Date: 9/27/13 **Engr:** JPM

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SKETCH #16	Typical Arrangement of Pad Mounted Metering and Service Termination Cabinet	SKETCH #16
SHEET 3 of 5	Up to Eight 750 KCMIL Conductors per Phase	SHEET 3 of 5

CUSTOMER FURNISHES, INSTALLS, MAINTAINS:

1. SEALABLE METAL CABINET MINIMUM 48 INCHES WIDE BY 78 INCHES HIGH BY 46 INCHES DEEP. OUTDOOR CABINET MUST BE NEMA-3R (WEATHERPROOF). INCLUDES ALL CONDUITS, BUSWORK, HARDWARE, ETC. EXCEPT FOR THAT EQUIPMENT DESIGNATED AS BEING PROVIDED BY PPL EU. SEE REMSI TABLE 1-APPROVED PAD MOUNTED METERING AND SERVICE TERMINATION CABINET FOR PREAPPROVED LIST.
2. 1-1/4 INCH MINIMUM THREADED GALVANIZED OR INTERMEDIATE RIDGID STEEL OR SCHEDULE 40 PVC CONDUIT AND FITTINGS BETWEEN INSTRUMENT TRANSFORMERS AND METER PANEL.
3. CUSTOMER IS RESPONSIBLE FOR BUS ARRANGEMENT, INTERNALS, AND CABINET.
4. METER GROUNDING TERMINAL BLOCK MOUNTED ON AN INSULATED STANDOFF AT THE TOP OF THE VT BRACKET. MUST ACCOMMODATE 2-#6 AND 5-#10 STRANDED COPPER CONDUCTORS AND BE BONDED TO THE NEUTRAL BUS WITH A #6 COPPER CONDUCTOR.
5. NEUTRAL BUS TO BE BOLTED TO CABINET FOR BONDING PURPOSES.
6. GROUNDING BUSHINGS SHALL BE ATTACHED TO ALL METAL CONDUITS. THE CONDUITS SHALL BE BONDED TOGETHER, TO THE CABINET, AND THE NEUTRAL BAR.
7. 2-34 INCH PIECES OF UNISTRUT ARE TO BE MOUNTED, BY THE CABINET MANUFACTURER, VERTICALLY 9-1/2 INCHES FROM CENTERLINE TO CENTERLINE APART. THE BOTTOM OF THE UNISTRUT SHALL BE 34 INCHES, THE TOP OF THE UNISTRUT SHALL BE 68 INCHES, FROM THE BOTTOM OF THE CABINET. THE UNISTRUT WILL BE MOUNTED ON THE OUTSIDE OF PPL EU'S SECTION OF THE CABINET. THE UNISTRUT SHALL BE MOUNTED ON EITHER SIDE OR BOTH SIDES OF THE PPL EU SECTION OF THE CABINET. SEE NOTE 1 FOR MORE INFORMATION.
8. CENTERED BELOW THE TWO PIECES OF UNISTRUT THE CUSTOMER WILL CUT A 1-1/4 INCH HOLE 24 INCHES CENTERLINE FROM THE BOTTOM OF THE CABINET TO ATTACH THE METERING CONDUIT AND FITTINGS. THE METER PANEL WILL BE MOUNTED ON THE UNISTRUT.

PPL EU FURNISHES, MAINTAINS; CUSTOMER INSTALLS:

10. CURRENT TRANSFORMERS.
11. VOLTAGE TRANSFORMERS FOR 277/480V SERVICES.
12. METER PANEL

PPL EU FURNISHES, INSTALLS, MAINTAINS:

13. WIRING BETWEEN INSTRUMENT TRANSFORMERS AND METER PANEL SEE RULE 15.
14. METER

CUSTOMER FURNISHES, INSTALLS, PPL EU MAINTAINS:

15. PPL EU SPECIFIES THE NUMBER OF CONDUITS, (MIN 4") IN PPL EU'S SECTION. NUMBER OF CONDUITS IS DETERMINED BY THE SIZE OF THE TRANSFORMER. SERVICE ENTRANCE UP TO 8 CONDUITS. GALVANIZED RIGID OR INTERMEDIATE STEEL CONDUIT SWEEPS SHALL HAVE A 36 INCH MINIMUM BENDING RADIUS.

* REFERENCE: CRS 6-15-180, CRS 6-19-100, SKETCH #8C, SKETCH #8D, SKETCH #20

RULES FOR ELECTRIC METER AND SERVICE
INSTALLATIONS
**PPL ELECTRIC UTILITIES
CORPORATION**

Rules: 5, 13, 15

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Date: 9/27/13 **Engr:** JPM

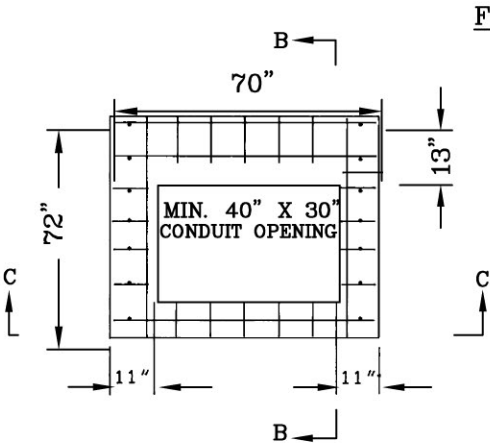
SKETCH #16	Typical Arrangement of Pad Mounted Metering and Service Termination Cabinet	SKETCH #16
SHEET 4 of 5	Up to Eight 750 KCMIL Conductors per Phase	SHEET 4 of 5

NOTES:

- A. PPL EU CONNECTS STARTING FROM THE RIGHT SIDE OF THE NEUTRAL BAR WHEN ACCESSING FROM PPL EU'S SECTION. THE CUSTOMER CONNECTS STARTING FROM THE RIGHT SIDE OF THE NEUTRAL BAR WHEN ACCESSING FROM THE CUSTOMERS SECTION.
- B. 1/4 X 20 TAPPED HOLE AND HEX HEAD SCREW FOR METERING VOLTAGE CONNECTION.
- C. ADJUSTABLE CT SUPPORT.
- D. MINIMUM CLEARANCE FROM THE BOTTOM OF THE BAR TO TOP OF CONDUITS. SEE RULE 15(F) AND SKETCH #50 FOR CABLE LIMITER DETAILS.
- E. PPL EU AND CUSTOMER DOORS MUST BE TRIPLE HINGED. THE HINGES AND HINGE PINS MUST BE NON-REMOVABLE. THE PPL EU AND CUSTOMER DOORS MUST ALSO BE SEALABLE. SEE NOTE F AND NOTE G.
- F. A THREE POINT LATCHING MECHANISM THAT SECURES BOTH DOORS IS REQUIRED. THE LATCHING BARS MUST PASS THROUGH A GUIDE THAT ASSURES CORRECT LATCHING. THE LATCHING MECHANISM CANNOT PROTRUDE MORE THAN 1" INSIDE THE CABINET. ALL CONNECTION BOLTS MUST BE PERMANENTLY SECURED TO PREVENT ACCIDENTAL CONTACT OF ANY METAL PART SHOULD THE LATCHING ASSEMBLY FAIL.
- G. THE LATCHING MECHANISM HANDLE MUST BE DESIGNED TO PROVIDE A LOCKING PROVISION IN THE CLOSED POSITION. A 1/2" HOLE IS REQUIRED FOR THE LOCKING PROVISION. KEY LOCKING OF THE HANDLE IS NOT ALLOWED.
- H. REFER TO THE APPROVED METERING AND EQUIPMENT TABLES (TABLE 1) FOR PREAPPROVED PAD MOUNTED METERING AND SERVICE TERMINATION CABINET. CABINETS NOT ALREADY ON THE PREAPPROVED LIST MUST HAVE DETAILED CONSTRUCTION DRAWINGS SUBMITTED TO PPL EU FOR APPROVAL BY THE AREA DESIGN SUPERVISOR PRIOR TO CONSTRUCTION.
- I. IN THE EVENT THE UNISTRUT HAS NOT BEEN MOUNTED BY THE CABINET MANUFACTURER THE METER PANEL IS NOT PERMITTED TO BE INSTALLED ON THE CABINET. THE METER PANEL SHALL THEN BE INSTALLED ON A SEPARATE MOUNTING ARRANGEMENT WITHIN VISUAL DISTANCE OF THE CABINET. SEE SKETCH #8D. CONTACT METERING SUPPORT FOR LOCATION OF METER PANEL. METER PANEL INFORMATION SEE SKETCH #8C. METERING CONDUIT WILL NEED TO BE INSTALLED IN THE FOUNDATION TO RUN BETWEEN THE INSTRUMENT CABINET AND THE METER PANEL. THE METERING CONDUIT SHALL BE BONDED TO THE OTHER CONDUIT AND THE CABINET.
- J. CLEAR SPACE-SEE SKETCH #8C AND RULE 13 FOR MORE INFORMATION.
- K. SEE BARRIER SKETCH #20 AS REQUIRED BY PPL EU.

* REFERENCE: CRS 6-15-180, CRS 6-19-100, SKETCH #8C, SKETCH #8D, SKETCH #20

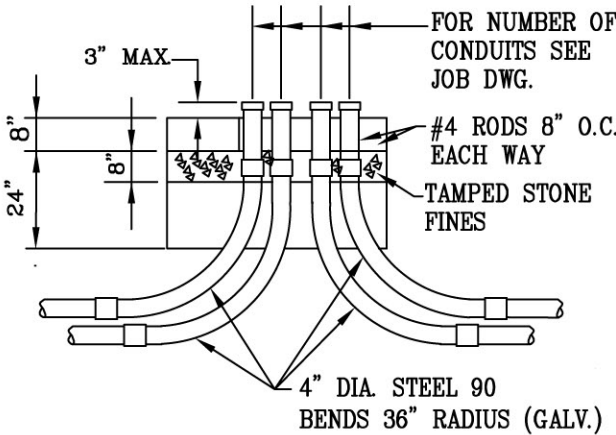
<p>RULES FOR ELECTRIC METER AND SERVICE INSTALLATIONS</p> <p>PPL ELECTRIC UTILITIES CORPORATION</p>	<p>Rules: 5, 13, 15</p> <p>Date: 9/27/13 Engr: JPM</p> <p>REMSL_S016P4.dwg</p>
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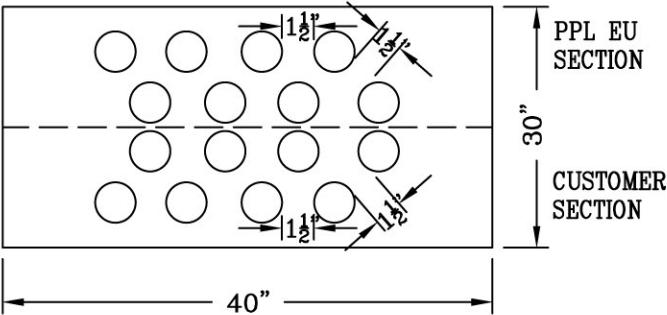
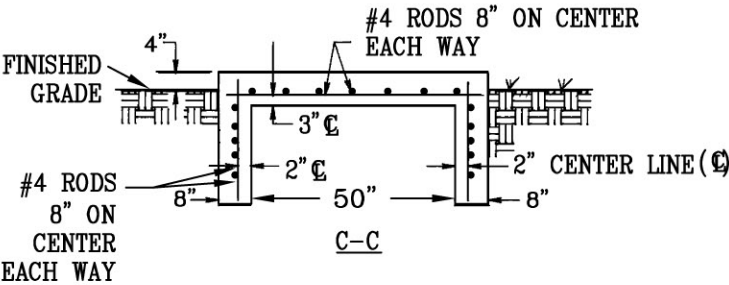
FOUNDATION PLAN
METER CABINET PAD

FOUNDATION DETAILS

NOT TO SCALE



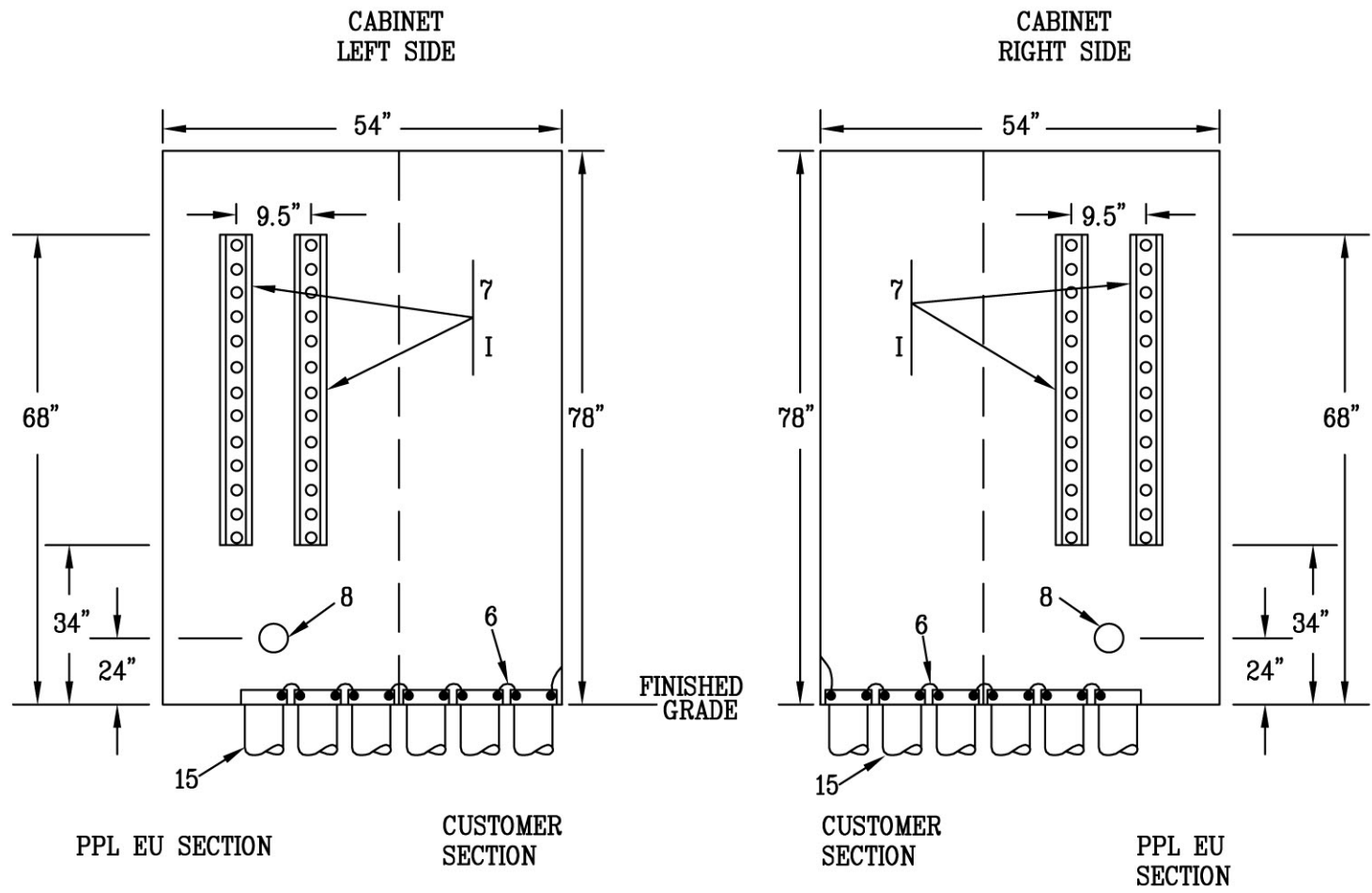
B-B



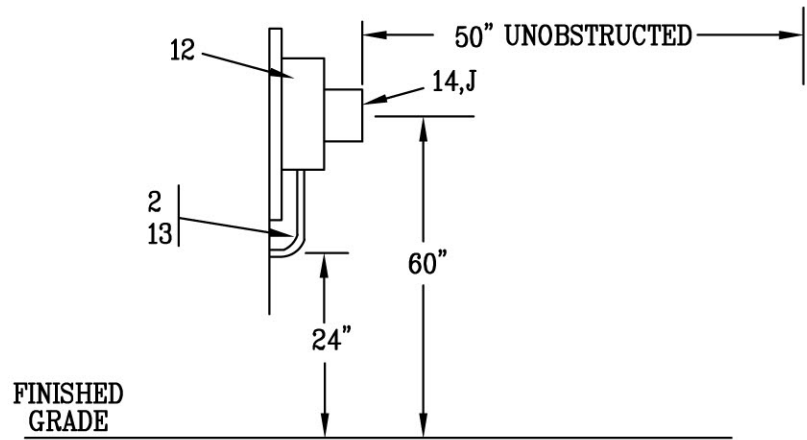
CONDUIT PLAN

* REFERENCE: CRS 6-15-180, CRS 6-19-100, SKETCH #8C, SKETCH #8D, SKETCH #20

NOT TO SCALE



SIDE VIEW OF METER



SKETCH #16A

SHEET 3 of 5

Typical Arrangement of Pad Mounted Metering
and Service Termination Cabinet
Up to Twelve 750 KCMIL Conductors per Phase

SKETCH #16A

SHEET 3 of 5

CUSTOMER FURNISHES, INSTALLS, MAINTAINS:

1. SEALABLE METAL CABINET MINIMUM 48 INCHES WIDE BY 78 INCHES HIGH BY 62 INCHES DEEP. OUTDOOR CABINET MUST BE NEMA-3R (WEATHERPROOF). INCLUDES ALL CONDUITS, BUSWORK, HARDWARE, ETC. EXCEPT FOR THAT EQUIPMENT DESIGNATED AS BEING PROVIDED BY PPL EU. SEE REMSI TABLE 1-APPROVED PAD MOUNTED METERING AND SERVICE TERMINATION CABINET FOR PREAPPROVED LIST.
2. 1-1/4 INCH MINIMUM THREADED GALVANIZED OR INTERMEDIATE RIDGID STEEL OR SCHEDULE 40 PVC CONDUIT AND FITTINGS BETWEEN INSTRUMENT TRANSFORMERS AND METER PANEL.
3. CUSTOMER IS RESPONSIBLE FOR BUS ARRANGEMENT, INTERNALS, AND CABINET.
4. METER GROUNDING TERMINAL BLOCK MOUNTED ON AN INSULATED STANDOFF AT THE TOP OF THE VT BRACKET. MUST ACCOMMODATE 2-#6 AND 5-#10 STRANDED COPPER CONDUCTORS AND BE BONDED TO THE NEUTRAL BUS WITH A #6 COPPER CONDUCTOR.
5. NEUTRAL BUS TO BE BOLTED TO CABINET FOR BONDING PURPOSES.
6. GROUNDING BUSHINGS SHALL BE ATTACHED TO ALL METAL CONDUITS. THE CONDUITS SHALL BE BONDED TOGETHER, TO THE CABINET, AND THE NEUTRAL BAR.
7. 2-34 INCH PIECES OF UNISTRUT ARE TO BE MOUNTED, BY THE CABINET MANUFACTURER, VERTICALLY 9-1/2 INCHES FROM CENTERLINE TO CENTERLINE APART. THE BOTTOM OF THE UNISTRUT SHALL BE 34 INCHES, THE TOP OF THE UNISTRUT SHALL BE 68 INCHES, FROM THE BOTTOM OF THE CABINET. THE UNISTRUT WILL BE MOUNTED ON THE OUTSIDE OF PPL EU'S SECTION OF THE CABINET. THE UNISTRUT SHALL BE MOUNTED ON EITHER SIDE OR BOTH SIDES OF THE PPL EU SECTION OF THE CABINET. SEE NOTE I FOR MORE INFORMATION.
8. CENTERED BELOW THE TWO PIECES OF UNISTRUT THE CUSTOMER WILL CUT A 1-1/4 INCH HOLE 24 INCHES CENTERLINE FROM THE BOTTOM OF THE CABINET TO ATTACH THE METERING CONDUIT AND FITTINGS. THE METER PANEL WILL BE MOUNTED ON THE UNISTRUT.

PPL EU FURNISHES, MAINTAINS; CUSTOMER INSTALLS:

10. CURRENT TRANSFORMERS.
11. VOLTAGE TRANSFORMERS FOR 277/480V SERVICES.
12. METER PANEL

PPL EU FURNISHES, INSTALLS, MAINTAINS:

13. WIRING BETWEEN INSTRUMENT TRANSFORMERS AND METER PANEL SEE RULE 15.
14. METER

CUSTOMER FURNISHES, INSTALLS, PPL EU MAINTAINS:

15. PPL EU SPECIFIES THE NUMBER OF CONDUITS, (MIN 4") IN PPL EU'S SECTION NUMBER OF CONDUITS IS DETERMINED BY THE SIZE OF THE TRANSFORMER. SERVICE ENTRANCE UP TO 16 PARALLEL CONDUITS. GALVANIZED RIGID OR INTERMEDIATE STEEL CONDUIT SWEEPS SHALL HAVE A 36 INCH MINIMUM BENDING RADIUS.

* REFERENCE: CRS 6-15-180, CRS 6-19-100, SKETCH #8C, SKETCH #8D, SKETCH #20

RULES FOR ELECTRIC METER AND SERVICE
INSTALLATIONS

**PPL ELECTRIC UTILITIES
CORPORATION**

Rules: 5, 13, 15

REMSI_S016AP3.dwg

Date: 9/27/13 Engr: JPM

SKETCH #16A	Typical Arrangement of Pad Mounted Metering and Service Termination Cabinet	SKETCH #16A
SHEET 4 of 5	Up to Twelve 750 KCMIL Conductors per Phase	SHEET 4 of 5

NOTES:

- A. THE LEFT-MOST THREE HOLES ON PPL EU'S BUS BAR AND THE RIGHT-MOST THREE HOLES ON THE CUSTOMER'S BUS BAR ARE TO BE BONDED BY THE MANUFACTURER AND ARE NOT PERMITTED TO BE USED FOR CONNECTING THE NEUTRAL CONDUCTORS.
- B. 1/4 X 20 TAPPED HOLE AND HEX HEAD SCREW FOR METERING VOLTAGE CONNECTION.
- C. ADJUSTABLE CT SUPPORT.
- D. MINIMUM CLEARANCE FROM THE BOTTOM OF THE BAR TO TOP OF CONDUITS. SEE RULE 15(F) AND SKETCH #50 FOR CABLE LIMITER DETAILS.
- E. PPL EU AND CUSTOMER DOORS MUST BE TRIPLE HINGED. THE HINGES AND HINGE PINS MUST BE NON-REMOVABLE. THE PPL EU AND CUSTOMER DOORS MUST ALSO BE SEALABLE. SEE NOTE F AND NOTE G.
- F. A THREE POINT LATCHING MECHANISM THAT SECURES BOTH DOORS IS REQUIRED. THE LATCHING BARS MUST PASS THROUGH A GUIDE THAT ASSURES CORRECT LATCHING. THE LATCHING MECHANISM CANNOT PROTRUDE MORE THAN 1" INSIDE THE CABINET. ALL CONNECTION BOLTS MUST BE PERMANENTLY SECURED TO PREVENT ACCIDENTAL CONTACT OF ANY METAL PART SHOULD THE LATCHING ASSEMBLY FAIL.
- G. THE LATCHING MECHANISM HANDLE MUST BE DESIGNED TO PROVIDE A LOCKING PROVISION IN THE CLOSED POSITION. A 1/2" HOLE IS REQUIRED FOR THE LOCKING PROVISION. KEY LOCKING OF THE HANDLE IS NOT ALLOWED.
- H. REFER TO THE APPROVED METERING AND EQUIPMENT TABLES (TABLE 1) FOR PREAPPROVED PAD MOUNTED METERING AND SERVICE TERMINATION CABINET. CABINETS NOT ALREADY ON THE PREAPPROVED LIST MUST HAVE DETAILED CONSTRUCTION DRAWINGS SUBMITTED TO PPL EU FOR APPROVAL BY THE AREA DESIGN SUPERVISOR PRIOR TO CONSTRUCTION.
- I. IN THE EVENT THE UNISTRUT HAS NOT BEEN MOUNTED BY THE CABINET MANUFACTURER THE METER PANEL IS NOT PERMITTED TO BE INSTALLED ON THE CABINET. THE METER PANEL SHALL THEN BE INSTALLED ON A SEPARATE MOUNTING ARRANGEMENT WITHIN VISUAL DISTANCE OF THE CABINET. SEE SKETCH #8D. CONTACT METERING SUPPORT FOR LOCATION OF METER PANEL. METER PANEL INFORMATION SEE SKETCH #8C. METERING CONDUIT WILL NEED TO BE INSTALLED IN THE FOUNDATION TO RUN BETWEEN THE INSTRUMENT CABINET AND THE METER PANEL. THE METERING CONDUIT SHALL BE BONDED TO THE OTHER CONDUIT AND THE CABINET.
- J. CLEAR SPACE-SEE SKETCH #8C AND RULE 13 FOR MORE INFORMATION.
- K. SEE BARRIER SKETCH #20 AS REQUIRED BY PPL EU.

* REFERENCE: CRS 6-15-180, CRS 6-19-100, SKETCH #8C, SKETCH #8D, SKETCH #20

**RULES FOR ELECTRIC METER AND SERVICE
INSTALLATIONS
PPL ELECTRIC UTILITIES
CORPORATION**

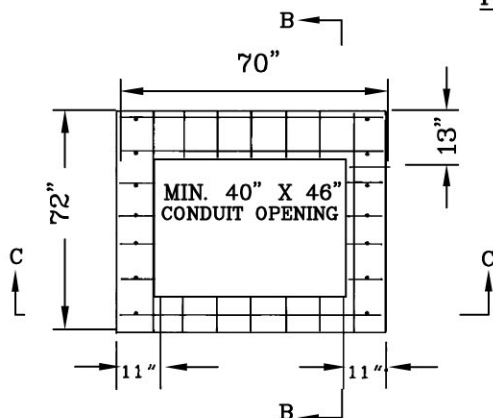
Rules: 5, 13, 15

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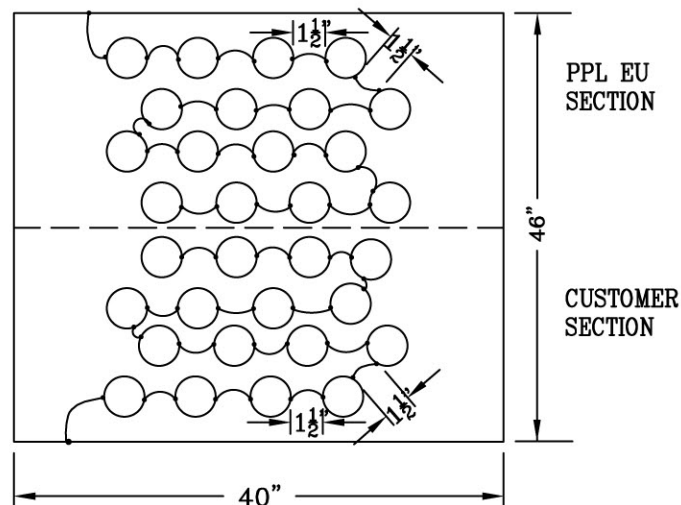
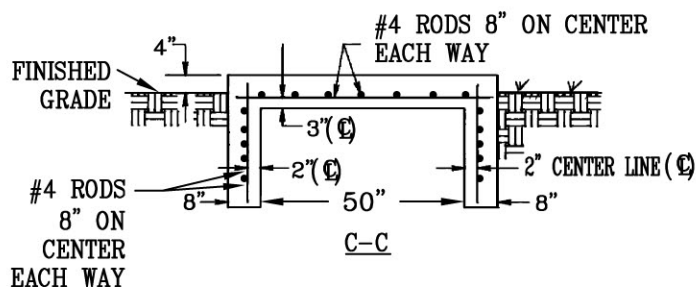
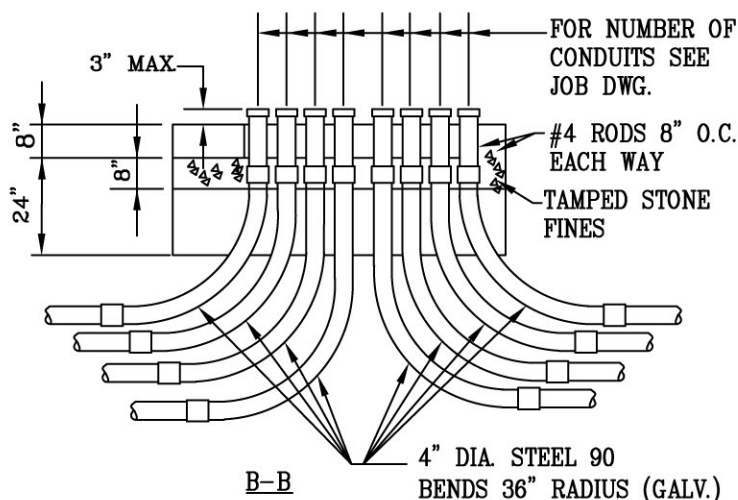
Date: 9/27/13 **Engr:** JPM

SKETCH #16A
SHEET 5 OF 5

NOT TO SCALE



FOUNDATION PLAN
METER CABINET PAD



CONDUIT PLAN (WITH FOUR SPARES)

* REFERENCE: CRS 6-15-180, CRS 6-19-100, SKETCH #8C, SKETCH #8D, SKETCH #20

RULES FOR ELECTRIC METER AND SERVICE INSTALLATIONS

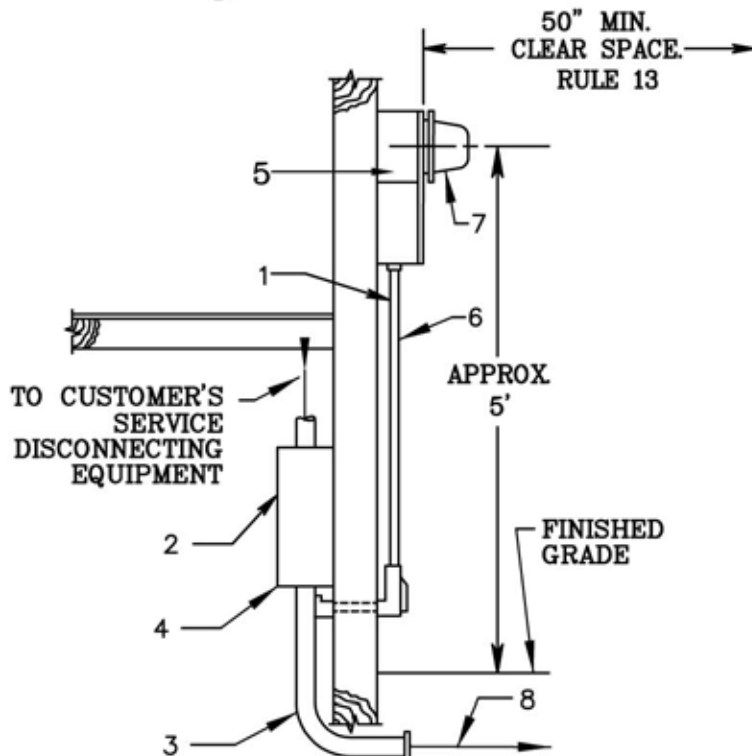
**PPL ELECTRIC UTILITIES
CORPORATION**

Rules: 5, 13, 15

REMSI_S016AP5.dwg

Date: 9/27/13 **Engr:** JPM

Arrangement of Equipment for Instrument Transformer Metering, Services Over 600 AMPS



CUSTOMER FURNISHES, INSTALLS, MAINTAINS:

- 1-1/4 INCH MINIMUM, THREADED, GALVANIZED, RIGID OR INTERMEDIATE STEEL OR GREY SCHEDULE 40 PVC CONDUIT AND FITTINGS BETWEEN INSTRUMENT TRANSFORMER CABINET AND METER PANEL.
- SEALABLE METAL INSTRUMENT TRANSFORMER CABINET, MINIMUM SIZE 48 INCHES BY 48 INCHES BY 12 INCHES. SEE RULE 15 AND SEE TABLE 1. APPROVED INSTRUMENT TRANSFORMER CABINET. SEE TABLE 2 IF OUTDOORS.
- 36 INCH MINIMUM RADIUS, GALVANIZED, STEEL ELBOW THROUGH BASEMENT WALL.

PPL EU FURNISHES, MAINTAINS: CUSTOMER INSTALLS:

- INSTRUMENT TRANSFORMERS AND MOUNTING.
- METER PANEL INSTALLED AT LOCATION DESIGNATED BY PPL EU.

PPL EU FURNISHES, INSTALLS, MAINTAINS:

- WIRING BETWEEN INSTRUMENT TRANSFORMERS AND METER PANEL.
- METER.
- SERVICE LATERAL CABLES TERMINATING ON THE LINE SIDE OF THE INSTRUMENT TRANSFORMERS.

NOTES:

- INDOOR LOCATION NEEDS APPROVAL OF SUPERVISOR METER SERVICES.
- 50" MINIMUM CLEAR SPACE IN FRONT OF METERBASE. SEE RULE 13. SKETCH 55 AND SKETCH 55A.

*REFERENCE CRS 6-19-133 & CRS 6-19-134, SKETCH 8C, SKETCH 55 & SKETCH 55A

RULES FOR ELECTRIC METER AND SERVICE
INSTALLATIONS
**PPL ELECTRIC UTILITIES
CORPORATION**

Rules: 5, 6, 10, 11B, 12, 13, 15

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Date: 8/17/07 **Engr:** MDB

SKETCH #18

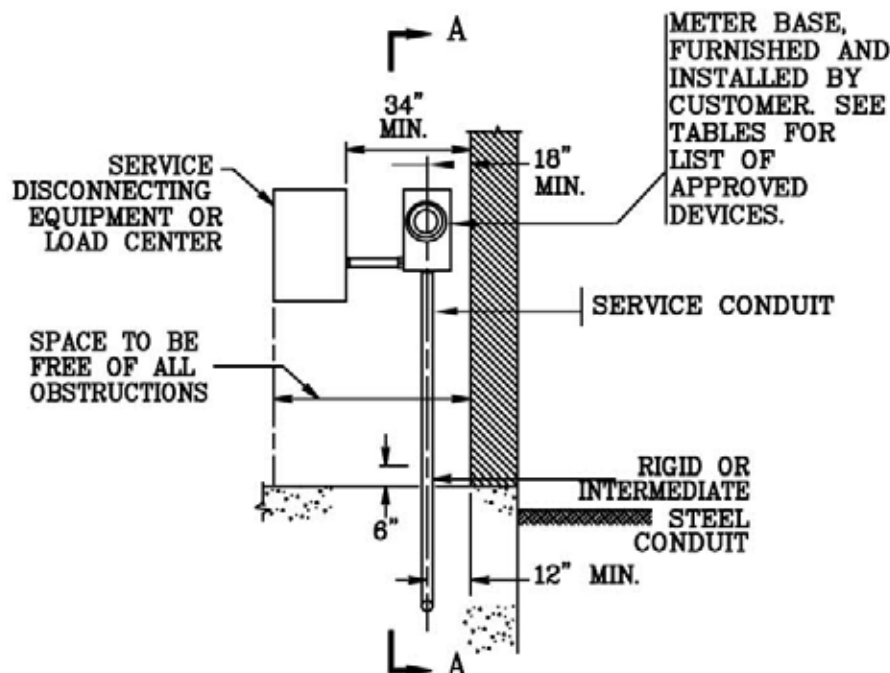
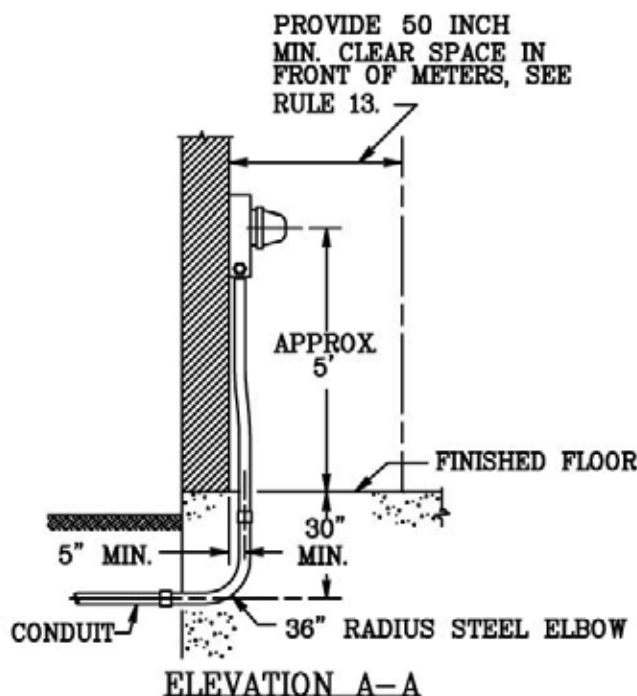
SHEET 18P1

Typical Arrangement of Indoor Metering Equipment
to Accomodate Either Self-Contained or Secondary
Instrument Transformer Metering
Underground Service from an Underground Service Lateral
Single Phase, 3 Wire, 120/208 V or 120/240 V and
3 Phase, 4 Wire, 208Y/120 V

SKETCH #18

SHEET 18P1

ARRANGEMENT OF EQUIPMENT FOR SELF-CONTAINED METER



RULES FOR ELECTRIC METER AND SERVICE
INSTALLATIONS
**PPL ELECTRIC UTILITIES
CORPORATION**

Rules: 5, 6, 10, 11A, 12, 13, 15

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Date: 8/18/06 **Engr:** MDB

SKETCH #18

SHEET 18P2

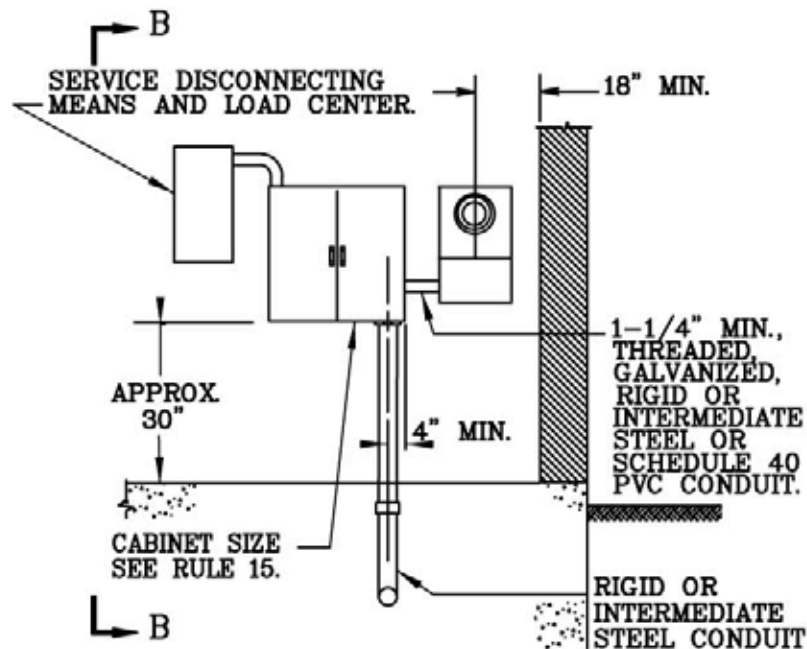
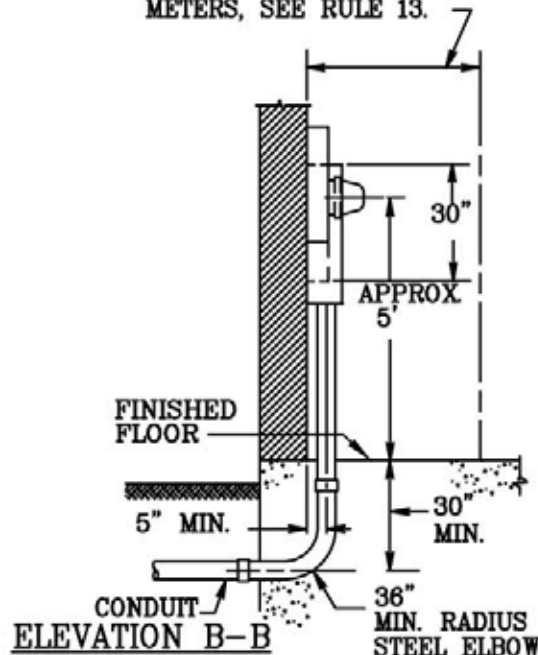
Typical Arrangement of Indoor Metering Equipment
to Accomodate Either Self-Contained or Secondary
Instrument Transformer Metering
Underground Service from an Underground Service Lateral
Single Phase, 3 Wire, 120/208 V or 120/240 V and
3 Phase, 4 Wire, 208Y/120 V

SKETCH #18

SHEET 18P2

ARRANGEMENT OF EQUIPMENT FOR INSTRUMENT TRANSFORMER

PROVIDE 50 INCH MINIMUM
CLEAR SPACE IN FRONT OF
METERS, SEE RULE 13.

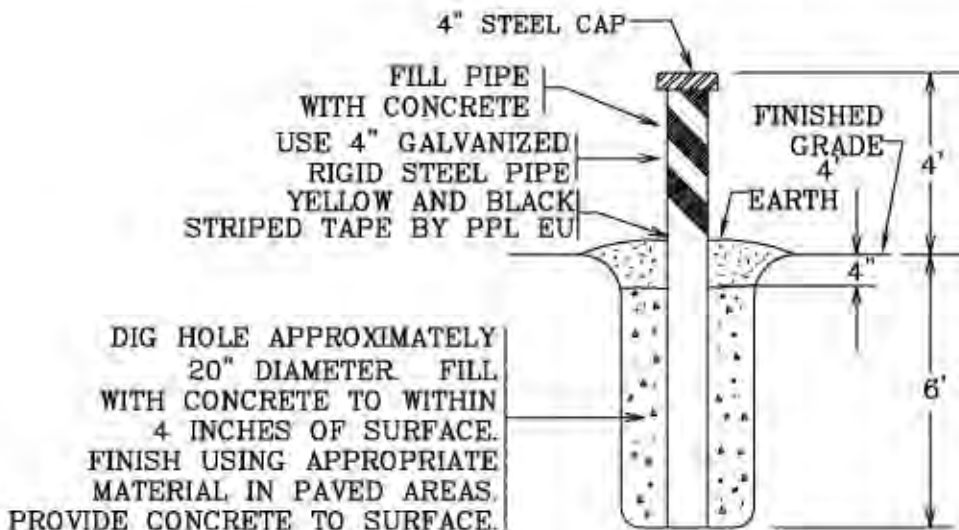


RULES FOR ELECTRIC METER AND SERVICE
INSTALLATIONS
PPL ELECTRIC UTILITIES
CORPORATION

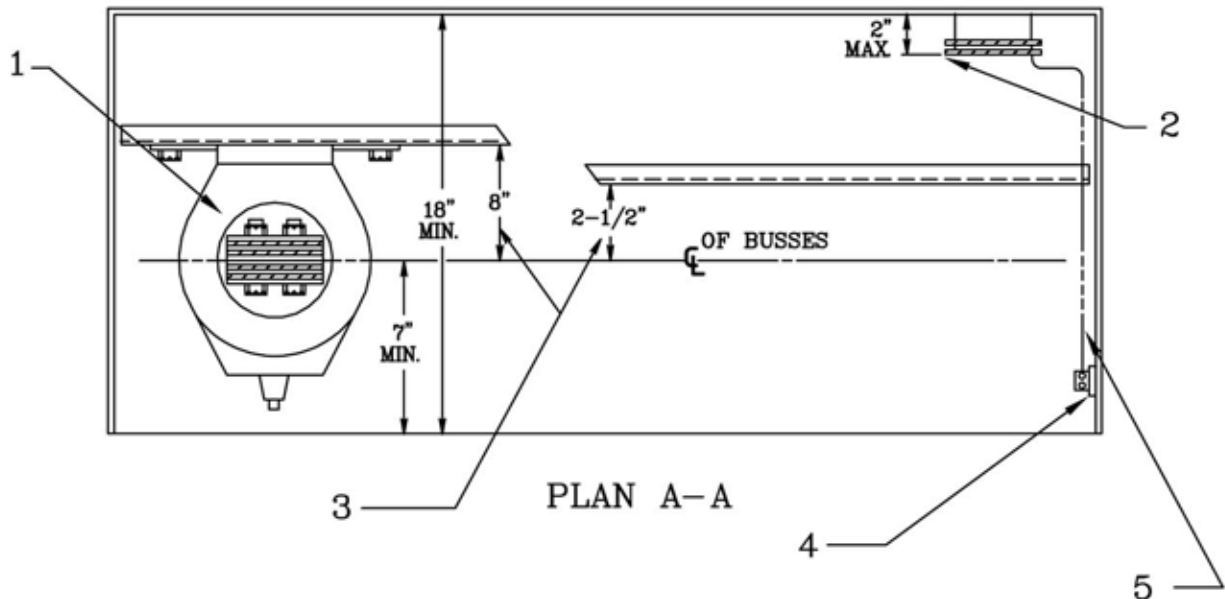
Rules: 5, 6, 10, 11A, 12, 13, 15

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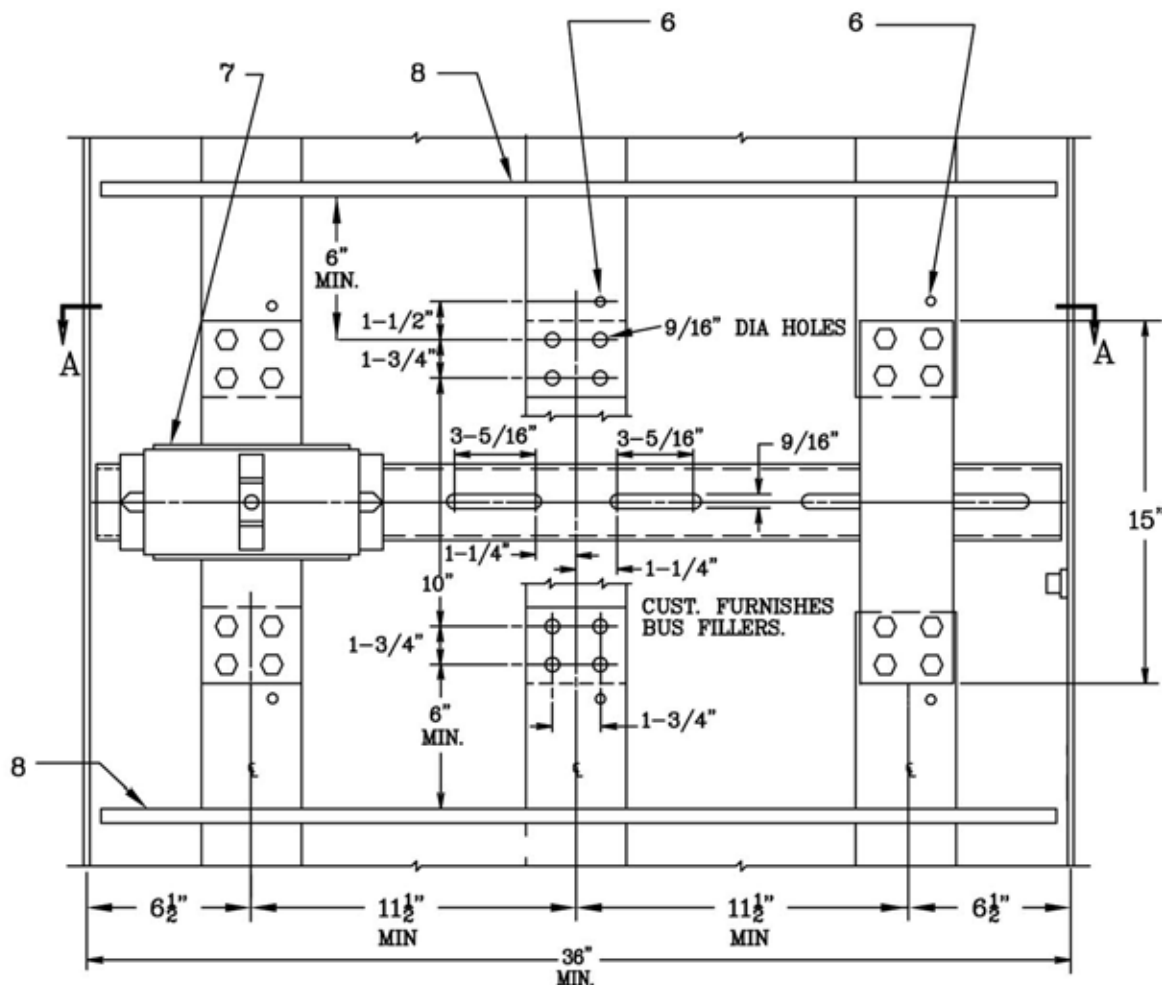
NOTES:

- A. IT IS THE CUSTOMER'S RESPONSIBILITY TO INSTALL PROTECTIVE BARRIERS. THEY ARE REQUIRED WHEN THE EQUIPMENT IS LOCATED IN AN AREA EXPOSED TO VEHICULAR TRAFFIC—FOR EXAMPLE, PARKING LOTS, LOADING DOCKS, AND DRIVEWAYS.
- B. BARRIERS SHALL NOT BE LOCATED DIRECTLY OVER CONDUITS AND SHALL BE INSTALLED BEFORE THE SERVICE IS ENERGIZED.
- C. BARRIERS SHALL NOT BE LOCATED WITH IN MINIMUM CLEARANCE AREAS.



1. 400 TO 4000 AMPERE CURRENT TRANSFORMER.
2. GROUNDED NEUTRAL BUS.
3. SUPPORT ADJUSTABLE FROM 2-1/2 INCHES MIN. TO 8 INCHES MAX.
4. TERMINAL BLOCK BY CUSTOMER FOR METERING GROUND INSULATED FROM CUBICLE BLOCK TO ACCOMMODATE 2-#6 & 5-#10 STRANDED COPPER CONDUCTORS.
5. GROUND WIRE BY CUSTOMER 600V COVERED COPPER, #6 AWG MIN. CONNECTED BETWEEN NEUTRAL BUS & TERMINAL BLOCK.

Typical Arrangement of Instrument Transformers in
Switchgear Cubicle
3 Phase, 4 Wire, 208Y/120 V or
3 Phase, 4 Wire, Delta 240/120 V



6. PROVIDE $\frac{1}{4}$ INCH BY 20 TAPPED HOLE & SCREW FOR METER WIRING ONNECTION ON EACH BUS
7. CURRENT TRANSFORMERS FURNISHED AND MAINTAINED BY PPL EU AND INSTALLED BY CUSTOMER.
8. FULLY INSULATED BARRIER.
9. MINIMUM CLEAR VERTICAL DISTANCE BETWEEN THE BOTTOMOF THE BUS BAR TO THE BOTTOM OF THE CABINET 48".
10. MAXIMUM CONDUIT HEIGHT IS 3".
11. FRONT VIEW THROUGH ACCESS OPENING WHEN FLAT OF BUS FACES OPENING. 3 C.T.'S REQUIRED - 1 CT SHOWN. (BUS CAN BE ROTATED 90°)
12. FOR 3 PHASE, 4 WIRE DELTA CONNECTED SERVICE, IDENTIFY PHASE CONDUCTOR WITH THE HIGHER VOLTAGE TO GROUND. SEE RULE 5 (h).
13. FOR TERMINATION COMPARTMENT DETAILS, SEE - APPROVED SWITCHGEAR METERING AND TERMINATION COMPARTMENTS TABLE 1

•REFERENCE CRS 6-19-100

RULES FOR ELECTRIC METER AND SERVICE
INSTALLATIONS
**PPL ELECTRIC UTILITIES
CORPORATION**

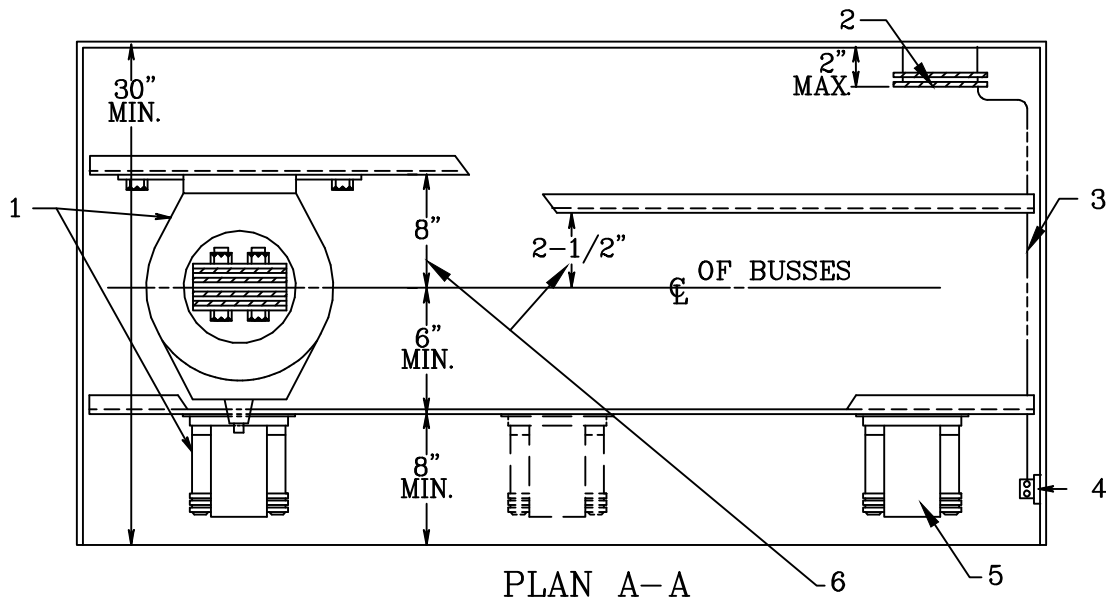
Rules: 5, 15

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Date: 6/24/09 **Engr:** MDB

Typical Arrangement of Instrument Transformer in
Switchgear Cubicle
Delta 480V or Wye 277/480V

NOT TO SCALE



1. CURRENT AND VOLTAGE TRANSFORMERS FURNISHED AND MAINTAINED BY PPL EU AND INSTALLED BY CUSTOMER.
2. GROUNDED NEUTRAL BUS FOR, WYE 277/480V, OMIT NEUTRAL BUS FOR, DELTA 480V AND INSTALL GROUNDING WIRE IN SERVICE PER RULE 5(H).
3. GROUND WIRE BY CUSTOMER 600V COVERED COPPER, #6 AWG MIN. CONNECTED BETWEEN NEUTRAL BUS & TERMINAL BUS & TERMINAL BLOCK
4. TERMINAL BLOCK BY CUSTOMER FOR METERING GROUND INSULATED FROM CUBICLE BLOCK TO ACCOMMODATE 2-#6 & 5-#10 STRANDED COPPER CONDUCTORS.
5. VOLTAGE TRANSFORMER.
6. SUPPORT ADJUSTABLE FROM 2-1/2 INCHES MIN. TO 8 INCHES MAX.

*REFERENCE CRS 6-19-100; SKETCH #50

RULES FOR ELECTRIC METER AND SERVICE
INSTALLATIONS
**PPL ELECTRIC UTILITIES
CORPORATION**

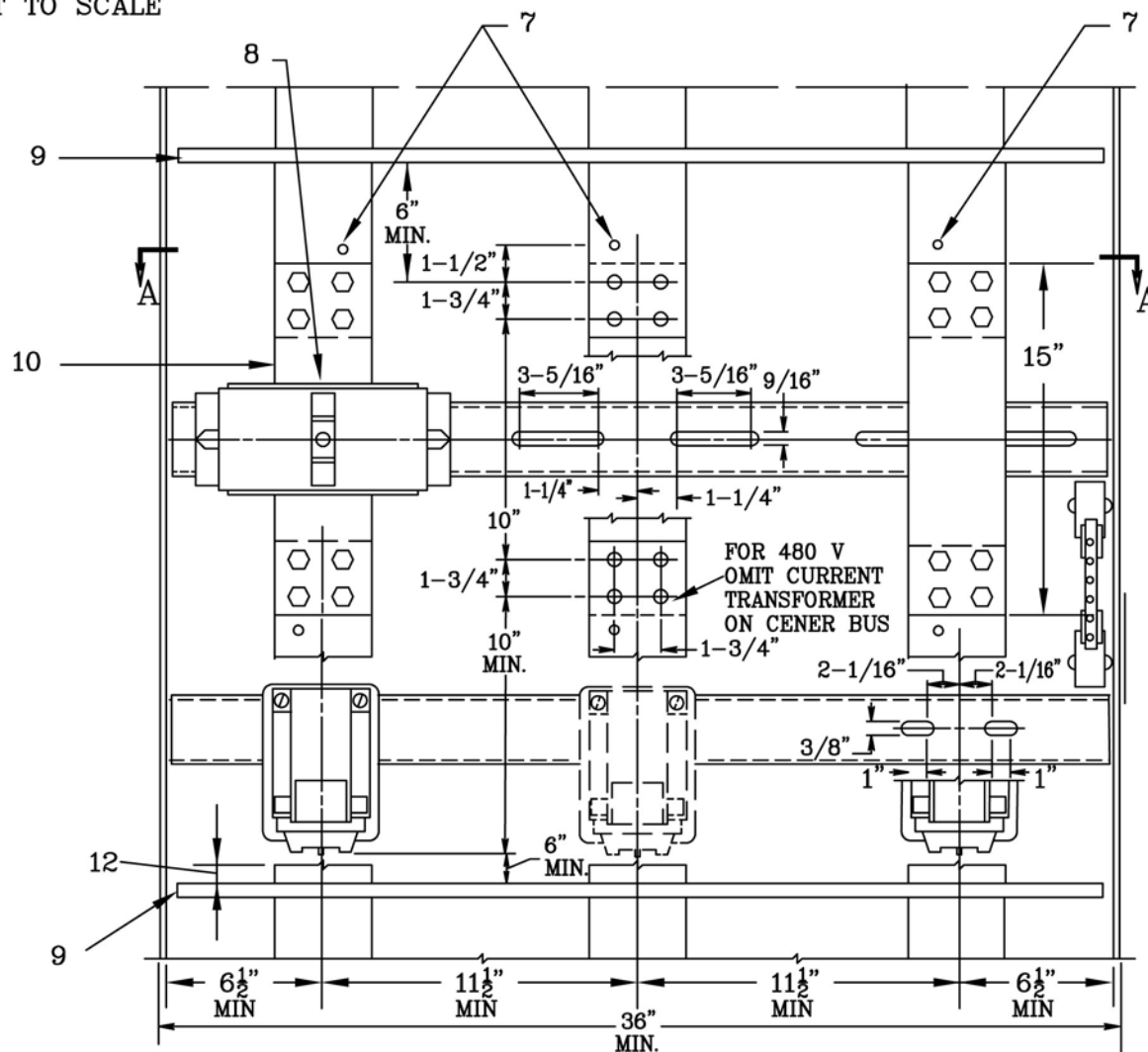
Rules: 5, 15

REMSI_S023P1.dwg

Date: 3/7/14 **Engr:** JCC

Typical Arrangement of Instrument Transformer in Switchgear Cubicle Delta 480V or Wye 277/480V

NOT TO SCALE



FRONT VIEW THROUGH ACCESS OPENING
WHEN FLAT OF BUS FACES OPENING.
BUS MAY BE TURNED SO BUS EDGE
FACES FRONT
1 C.T. SHOWN, 3 C.T.'S TYPICAL

7. PROVIDE 1/4 INCH BY 20 TAPPED HOLE AND SCREW FOR METER WIRING CONNECTION.
8. 400 TO 4000 A CURRENT TRANSFORMER.
9. FULLY INSULATED BARRIER.
10. CUSTOMER FURNISHES BUS FILLERS.
11. MINIMUM CLEAR VERTICLE DISTANCE BETWEEN BOTTOM OF BUS BAR AND BOTTOM AT THE CABINET IS 48 INCHES.
12. MAXIMUM CONDUIT HEIGHT IS 3 INCHES.

*REFERENCE CRS 6-19-100; SKETCH #50

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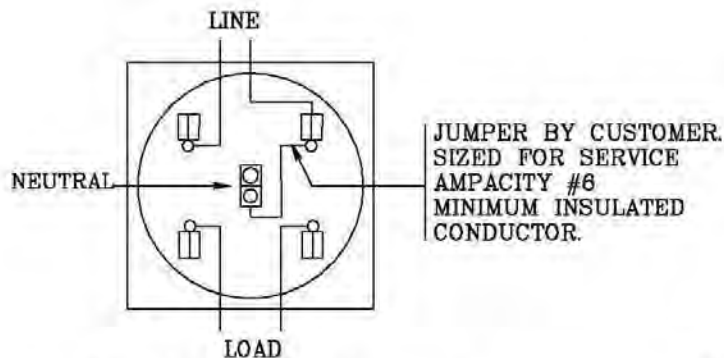
RULES FOR ELECTRIC METER AND SERVICE
INSTALLATIONS

**PPL ELECTRIC UTILITIES
CORPORATION**

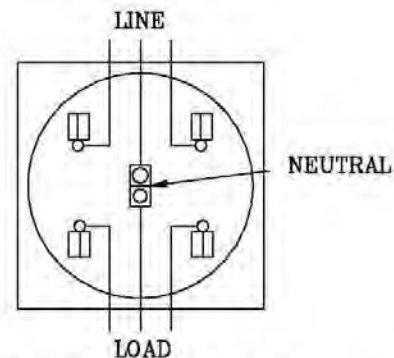
Rules: 5, 15

Date: 3/7/14 **Engr:** JCC

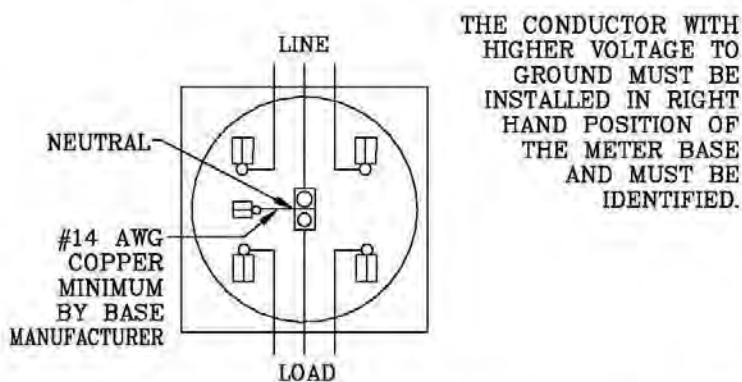
Sketch #25 Secondary service meter base connections for self-contained meters, overhead service, 100 and 200 ampere



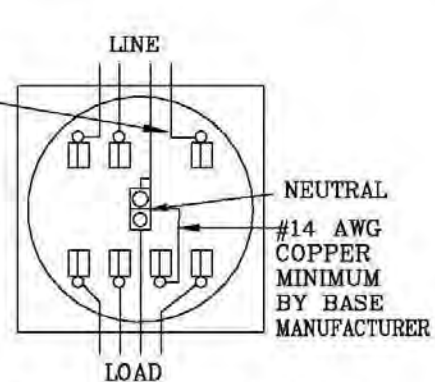
2 WIRE, 1 PHASE, 120 V
TABLE 1 - APPROVED METER SERVICE DEVICES



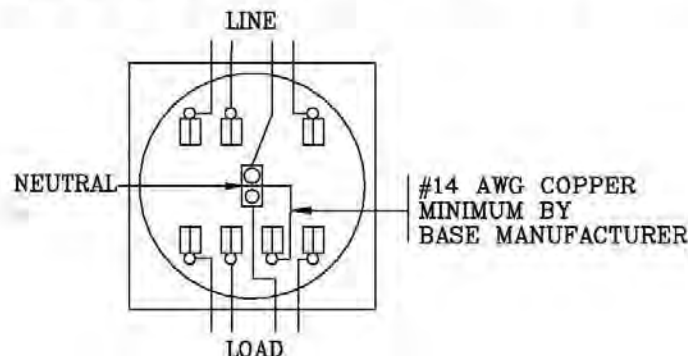
3 WIRE, 1 PHASE, 120/240 V
TABLE 1 - APPROVED METER SERVICE DEVICES



3 WIRE NETWORK, 208/120 V
TABLE 1 - APPROVED METER SERVICE DEVICES WITH 5th TERMINAL ACCESSORY



4 WIRE, 3 PHASE, DELTA 240/120 V
TABLE 3 - APPROVED METER SERVICE DEVICES



4 WIRE, 3 PHASE, 208Y/120 V
TABLE 3 - APPROVED METER SERVICE DEVICES

RULES FOR ELECTRIC METER AND SERVICE INSTALLATIONS
PPL ELECTRIC UTILITIES CORPORATION

Rules: 5, 10, 12, 13, 14, 16, 20

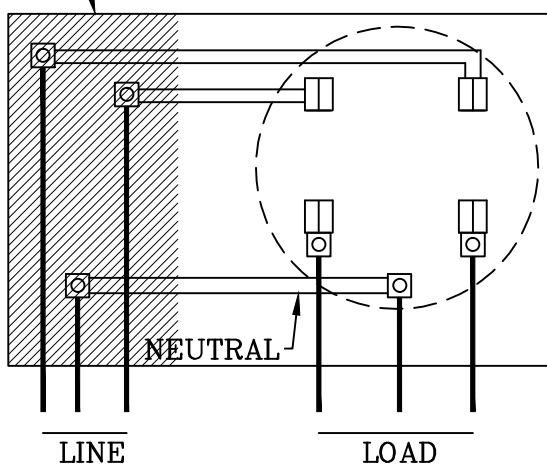
Date: 7/18/16 **Engr:** NAP

Secondary Service
Meter Base Connections for Self-Contained Meters
Underground Service
200A

1

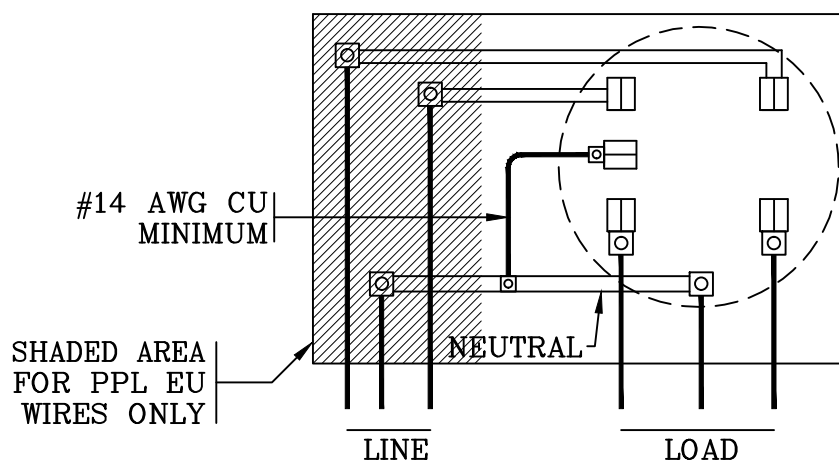
SHADED AREA
FOR PPL EU
WIRES ONLY

VOLTAGE: 1 Phase, 2 Wire, 120V 1 Phase, 3 Wire, 120/208V Network 1 Phase, 3 Wire, 120/240V 3 Phase, 4 Wire, WYE 120/208V 3 Phase, 4 Wire, Delta 120/240V	SERVICE TYPE: Underground
	METER BASE LOCATION: Outdoor
AMPERAGE: 200 A	



3 WIRE, 1 PHASE, 120/240 V
TABLE 2 - APPROVED METER SERVICE DEVICES

2

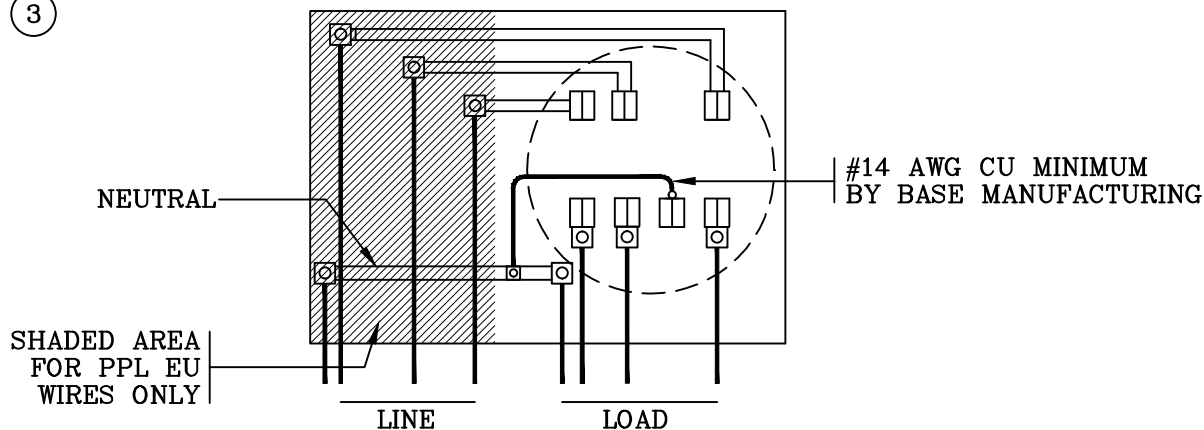


3 WIRE NETWORK, 208/120 V
TABLE 2 - APPROVED METER SERVICE DEVICES
WITH 5th TERMINAL ACCESSORY

RULES FOR ELECTRIC METER AND SERVICE INSTALLATIONS PPL ELECTRIC UTILITIES CORPORATION	Rules: 5, 10, 12, 13, 14, 16, 20 Date: 6/7/13 Engr: JPM
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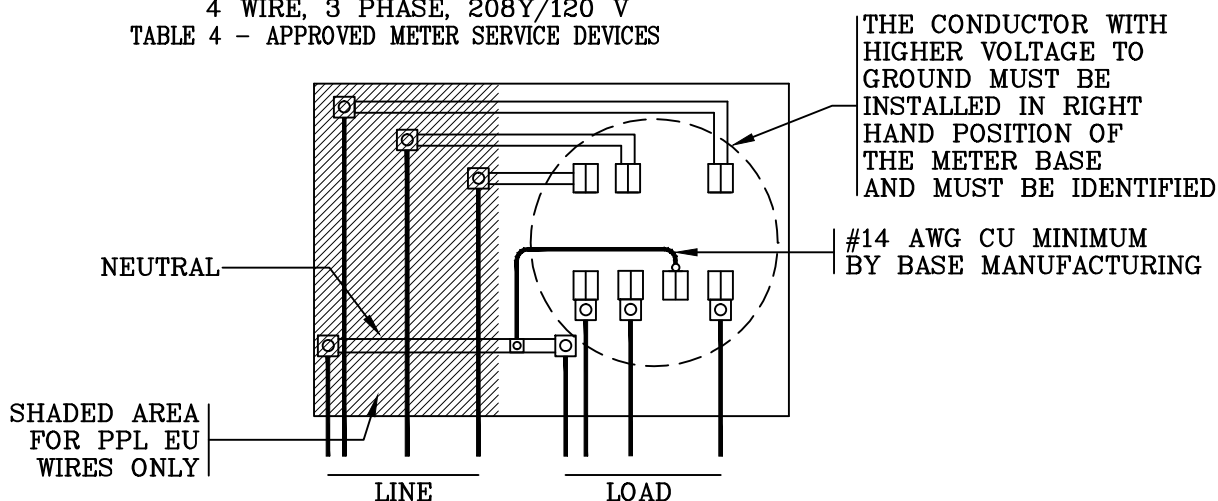
Secondary Service
Meter Base Connections for Self-Contained Meters
Underground Service
200A

3



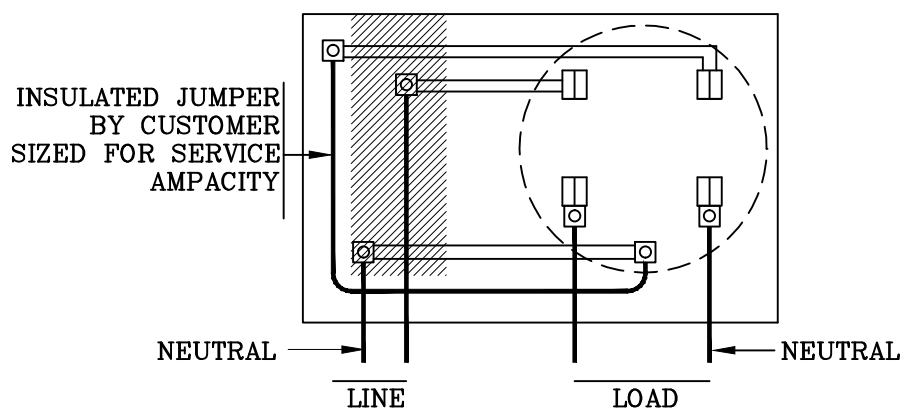
4 WIRE, 3 PHASE, 208Y/120 V
TABLE 4 - APPROVED METER SERVICE DEVICES

4



4 WIRE, 3 PHASE, DELTA 240/120 V
TABLE 4 - APPROVED METER SERVICE DEVICES

5



2 WIRE, 1 PHASE, 120 V
TABLE 2 - APPROVED METER SERVICE DEVICES

RULES FOR ELECTRIC METER AND SERVICE
INSTALLATIONS
**PPL ELECTRIC UTILITIES
CORPORATION**

Rules: 5, 10, 12, 13, 14, 16, 20

Date: 6/7/13 **Engr:** JPM

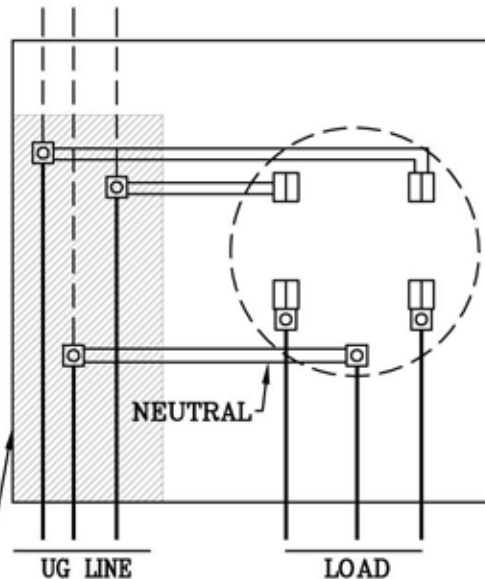
SKETCH #25B

SHEET 1

Secondary Service
Meter Base Connections for Self-Contained Meters
Overhead or Underground Service
400A

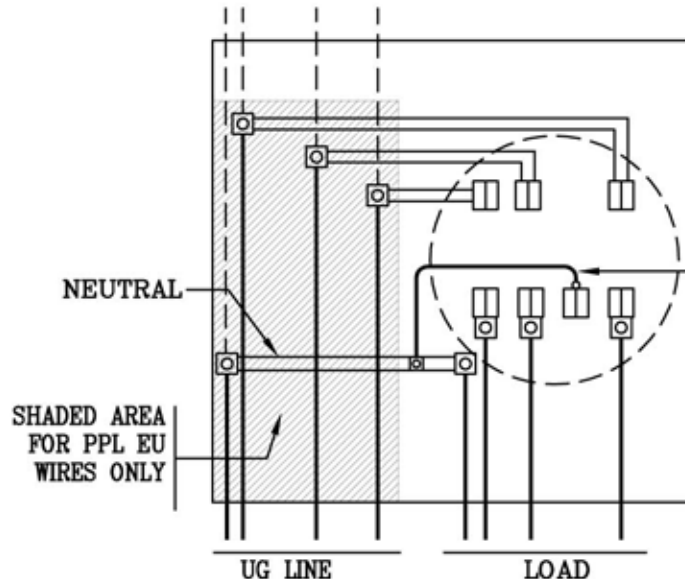
SKETCH #25B

SHEET 1

OH LINE
BY CUSTOMER

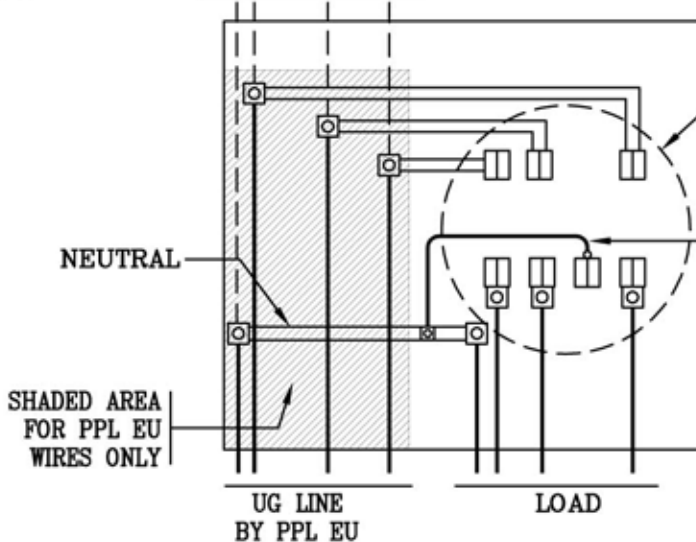
3 WIRE, 1 PHASE, 120/240V
TABLE 1 & 2 - APPROVED METER SERVICE DEVICES

SHADED AREA
FOR PPL EU
WIRES ONLY

OH LINE
BY CUSTOMER

4 WIRE, 3 PHASE, 208Y/120V TABLE 3 & 4
- APPROVED METER SERVICE DEVICES

#14 AWG CU
MINIMUM BY
BASE MFR.

OH LINE
BY CUSTOMER

4 WIRE, 3 PHASE, 240A/120V TABLE 3 & 4
APPROVED METER SERVICE DEVICES

THE CONDUCTOR WITH HIGHER
VOLTAGE TO GROUND MUST BE
INSTALLED IN RIGHT HAND
POSITION OF THE METER BASE
AND MUST BE IDENTIFIED

#14 AWG CU
MINIMUM BY BASE
MANUFACTURING

RULES FOR ELECTRIC METER AND SERVICE
INSTALLATIONS
**PPL ELECTRIC UTILITIES
CORPORATION**

Rules: 5, 10, 12, 13, 14, 16, 20

Date: 9/17/08 **Engr:** MDB