

**1-PH COMPT TR PAD - ESS/RSS**  
**167kVA MAXIMUM CAPACITY**

ITEM	MATERIAL DESCRIPTION (BY ComEd)	MIG	SI	UNIT	QTY
A	GROUNDING INSTALLATION (1) C8550_G0	G			1
C	Wire, Copper, #1/0-19 Strand, Soft Drawn, Tin Coated, Bare (1)	G	355082	FT	35
D	Connector, Compression, 1/0 Or 2/0 Strd Cu. Run & Top.	U	368545	EA	1

**NOTES:**

**APPLICATION**

- THIS STANDARD SHALL BE USED FOR THE INSTALLATION OF AN ELECTRIC OR RESIDENTIAL SERVICE STATION FOUNDATION AS DESCRIBED IN THE "INFORMATION AND REQUIREMENTS FOR THE SUPPLY OF ELECTRIC SERVICE BOOK", SECTIONS 2.02 AND 2.07.

**SUPPLEMENTARY MATERIAL**

- WHEN BARE LEAD COVERED CABLES ARE LOCATED OR PLANNED WITHIN 200 FEET, OMIT ITEM "C" AND REPLACE WITH 1/0 LEAD CLAD COPPER CONDUCTOR (SI 360809). SPECIFY STAINLESS STEEL GROUNDS PER C8550.G0.

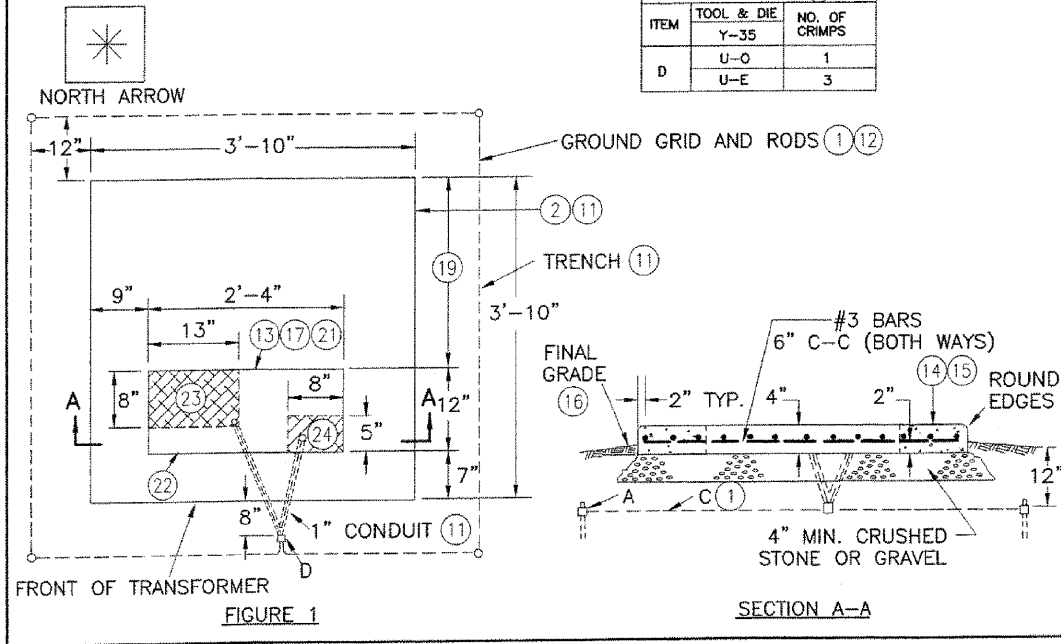
- PRECAST ALTERNATIVES TO THIS POURED DESIGN MAY BE AVAILABLE. CONTACT CONSTRUCTION STANDARDS GROUP.

**INFORMATION**

- THE CUSTOMER TO INSTALL THE TRANSFORMER FOUNDATION, 1 INCH CONDUITS, AND TRENCH FOR ComEd GROUND WIRE.
- ComEd TO PROVIDE AND INSTALL THE GROUND WIRE AND GRID.
- AFTER PRIMARY AND SECONDARY CONDUITS ARE IN PLACE, BACKFILL WITH SCREENINGS, SAND, OR FINE EXCAVATED MATERIAL, COMPACT THOROUGHLY BEFORE POURING FOUNDATION.
- CONCRETE TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE APPLICABLE ACI CODE AND AIR ENTRAINMENT. IT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. AIR ENTRAINMENT SHALL BE 4 TO 7 PERCENT OF THE VOLUME OF CONCRETE.

- TOP OF FOUNDATION TO BE SMOOTH AND LEVEL.
- GRADE AWAY FROM FOUNDATION. FINAL GRADE SHALL BE WELL DRAINED AT ALL TIMES.
- PRIMARY AND SECONDARY CONDUIT MUST COME THROUGH FOUNDATION IN DESIGNATED AREAS.
- SEE C7723 FOR BURNDY-HUSKY DIE SET CROSS REFERENCE.
- DO NOT PLACE CONDUITS UNDER THIS SECTION OF FOUNDATION IF AVOIDABLE.
- DO NOT DISTURB EARTH IN FOUNDATION AREA MORE THAN NECESSARY WHEN INSTALLING CONDUIT.
- TERMINATE PRIMARY AND SECONDARY CONDUITS FLUSH WITH TOP OF FOUNDATION.
- BOX OUT CONDUIT OPENING.
- SECONDARY CONDUIT LOCATION.
- PRIMARY CONDUIT LOCATION.
- PLEASE CONSULT GP 346 (SPCC) OR ENVIRONMENTAL SERVICES IF EITHER OF THE FOLLOWING EXISTS:
  - A SINGLE ABOVE GROUND TANK WITH A CAPACITY OF 660 GALLONS OR MORE.
  - MORE THAN ONE ABOVE GROUND TANK WITH TOTAL CAPACITY EQUAL TO OR EXCEEDING 1320 GALLONS.

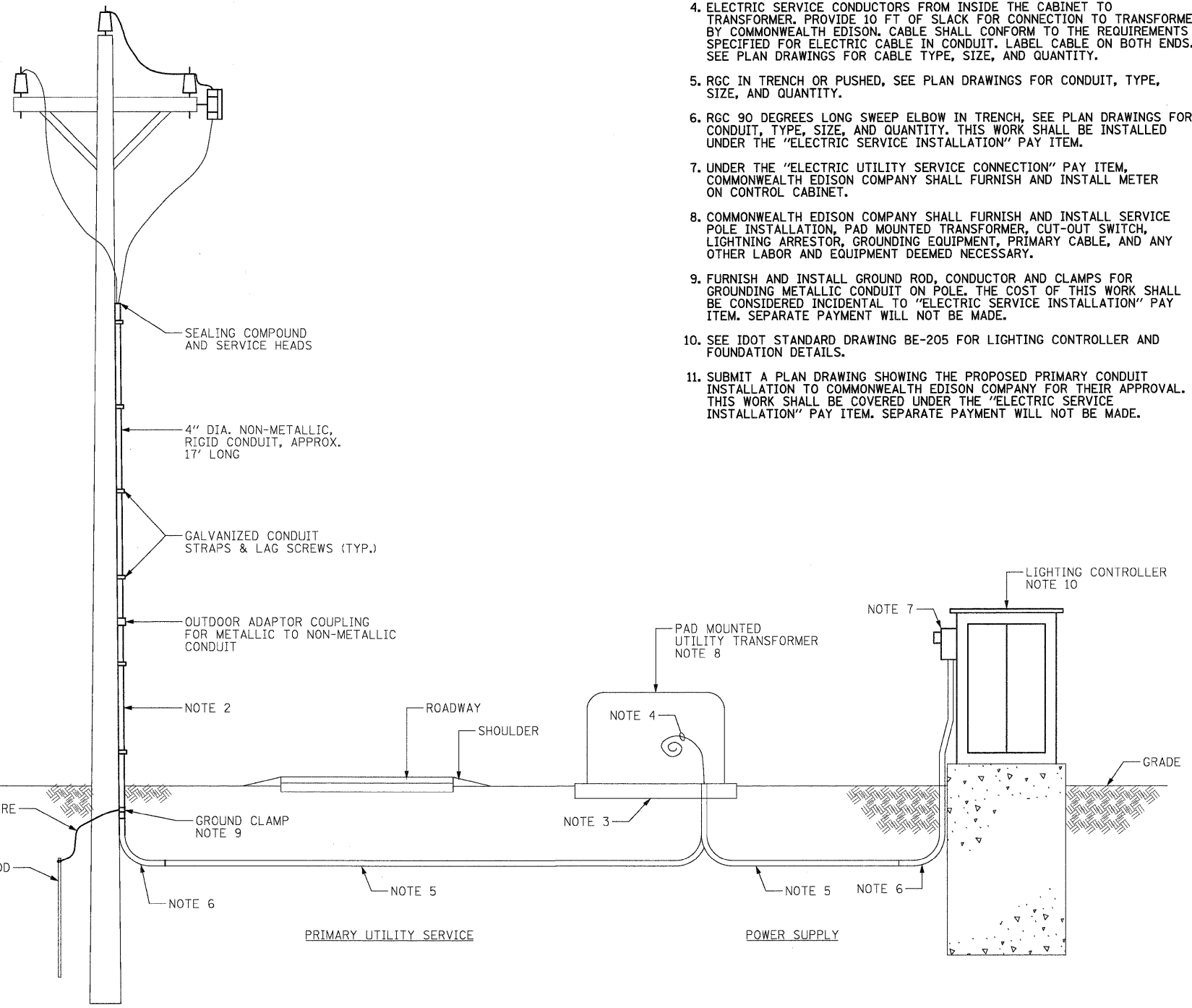
ITEM	TOOL & DIE	NO. OF CRIMPS
	Y-35	
D	U-O	1
	U-E	3



**ComEd SYSTEM STANDARD**

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*Revised*



**NOTES:**

- SEE DRAWING GE-1 FOR ELECTRICAL SYMBOL LIST AND ABBREVIATIONS. SEE DRAWING GE-2 FOR ELECTRICAL GENERAL NOTES AND SUGGESTED LIGHTING PHASING NOTES.
- THIS WORK SHALL BE INSTALLED UNDER THE "ELECTRIC SERVICE INSTALLATION" PAY ITEM.
- COMMONWEALTH EDISON CO. SHALL FURNISH AND INSTALL THE TRANSFORMER COMPLETE WITH GROUNDING SYSTEM INCLUDING GROUND RODS, GROUNDING CONDUCTOR, PRIMARY CABLE, AND CONNECTORS. SEE COMMONWEALTH EDISON SYSTEM STANDARD C5288 FOR INSTALLATION REQUIREMENTS.
- ELECTRIC SERVICE CONDUCTORS FROM INSIDE THE CABINET TO TRANSFORMER. PROVIDE 10 FT OF SLACK FOR CONNECTION TO TRANSFORMER BY COMMONWEALTH EDISON. CABLE SHALL CONFORM TO THE REQUIREMENTS SPECIFIED FOR ELECTRIC CABLE IN CONDUIT. LABEL CABLE ON BOTH ENDS. SEE PLAN DRAWINGS FOR CABLE TYPE, SIZE, AND QUANTITY.
- RGC IN TRENCH OR PUSHED, SEE PLAN DRAWINGS FOR CONDUIT, TYPE, SIZE, AND QUANTITY.
- RGC 90 DEGREES LONG SWEEP ELBOW IN TRENCH, SEE PLAN DRAWINGS FOR CONDUIT, TYPE, SIZE, AND QUANTITY. THIS WORK SHALL BE INSTALLED UNDER THE "ELECTRIC SERVICE INSTALLATION" PAY ITEM.
- UNDER THE "ELECTRIC UTILITY SERVICE CONNECTION" PAY ITEM, COMMONWEALTH EDISON COMPANY SHALL FURNISH AND INSTALL METER ON CONTROL CABINET.
- COMMONWEALTH EDISON COMPANY SHALL FURNISH AND INSTALL SERVICE POLE INSTALLATION, PAD MOUNTED TRANSFORMER, CUT-OUT SWITCH, LIGHTNING ARRESTOR, GROUNDING EQUIPMENT, PRIMARY CABLE, AND ANY OTHER LABOR AND EQUIPMENT DEEMED NECESSARY.
- FURNISH AND INSTALL GROUND ROD, CONDUCTOR AND CLAMPS FOR GROUNDING METALLIC CONDUIT ON POLE. THE COST OF THIS WORK SHALL BE CONSIDERED INCIDENTAL TO "ELECTRIC SERVICE INSTALLATION" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- SEE IDOT STANDARD DRAWING BE-205 FOR LIGHTING CONTROLLER AND FOUNDATION DETAILS.
- SUBMIT A PLAN DRAWING SHOWING THE PROPOSED PRIMARY CONDUIT INSTALLATION TO COMMONWEALTH EDISON COMPANY FOR THEIR APPROVAL. THIS WORK SHALL BE COVERED UNDER THE "ELECTRIC SERVICE INSTALLATION" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.

**ELECTRIC SERVICE INSTALLATION DETAIL**  
 N.T.S.

FILE NAME = D160F12-SHT-ED-8.dgn	USER NAME = TKLuegel	DESIGNED - JLW	REVISED -
PLOT SCALE = .5	CHECKED - KMY	DRAWN - CJM	REVISED -
PLOT DATE = 2/3/2011	DATE = 2/4/11	CHECKED - KMY	REVISED -

F.A.I. RTE. 55	SECTION 99-2HB-2B-1	COUNTY WILL	TOTAL SHEETS 756	SHEET NO. 423
CONTRACT NO. 60F12				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				