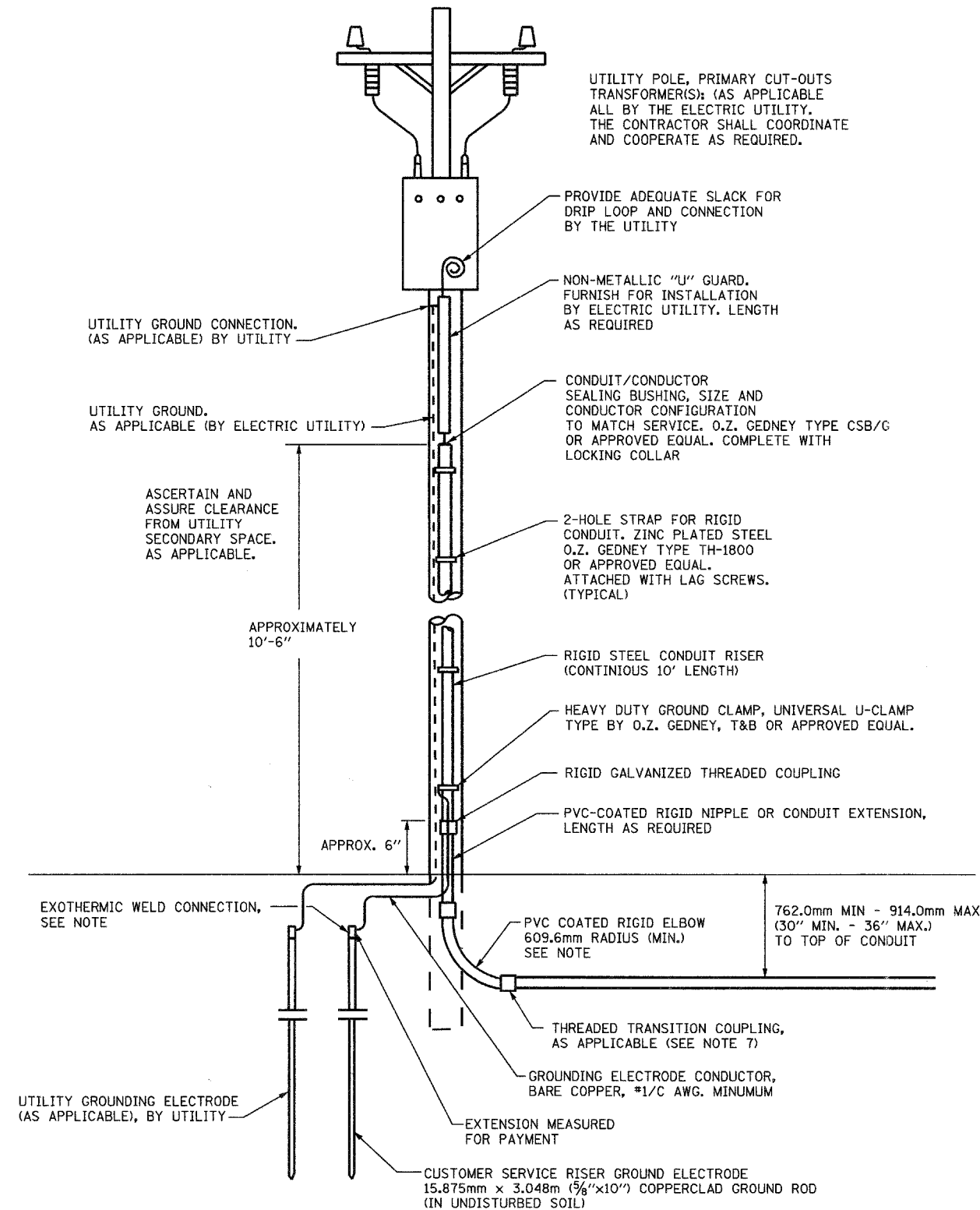


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
06-00017-00-PV		KANE	232	152



UTILITY POLE, PRIMARY CUT-OUTS TRANSFORMER(S); (AS APPLICABLE ALL BY THE ELECTRIC UTILITY. THE CONTRACTOR SHALL COORDINATE AND COOPERATE AS REQUIRED.

PROVIDE ADEQUATE SLACK FOR DRIP LOOP AND CONNECTION BY THE UTILITY

NON-METALLIC "U" GUARD. FURNISH FOR INSTALLATION BY ELECTRIC UTILITY. LENGTH AS REQUIRED

UTILITY GROUND CONNECTION. (AS APPLICABLE) BY UTILITY

UTILITY GROUND. AS APPLICABLE (BY ELECTRIC UTILITY)

CONDUIT/CONDUCTOR SEALING BUSHING, SIZE AND CONDUCTOR CONFIGURATION TO MATCH SERVICE. O.Z. GEDNEY TYPE CSB/G OR APPROVED EQUAL. COMPLETE WITH LOCKING COLLAR

ASCERTAIN AND ASSURE CLEARANCE FROM UTILITY SECONDARY SPACE. AS APPLICABLE.

2-HOLE STRAP FOR RIGID CONDUIT. ZINC PLATED STEEL O.Z. GEDNEY TYPE TH-1800 OR APPROVED EQUAL. ATTACHED WITH LAG SCREWS. (TYPICAL)

APPROXIMATELY 10'-6"

RIGID STEEL CONDUIT RISER (CONTINUOUS 10' LENGTH)

HEAVY DUTY GROUND CLAMP, UNIVERSAL U-CLAMP TYPE BY O.Z. GEDNEY, T&B OR APPROVED EQUAL.

RIGID GALVANIZED THREADED COUPLING

PVC-COATED RIGID NIPPLE OR CONDUIT EXTENSION, LENGTH AS REQUIRED

APPROX. 6"

EXOTHERMIC WELD CONNECTION, SEE NOTE

PVC COATED RIGID ELBOW 609.6mm RADIUS (MIN.) SEE NOTE

762.0mm MIN - 914.0mm MAX (30" MIN. - 36" MAX.) TO TOP OF CONDUIT

THREADED TRANSITION COUPLING, AS APPLICABLE (SEE NOTE 7)

GROUNDING ELECTRODE CONDUCTOR, BARE COPPER, #1/C AWG. MINIMUM

UTILITY GROUNDING ELECTRODE (AS APPLICABLE), BY UTILITY

EXTENSION MEASURED FOR PAYMENT

CUSTOMER SERVICE RISER GROUND ELECTRODE 15.875mm x 3.048m (5/8"x10") COPPERCLAD GROUND ROD (IN UNDISTURBED SOIL)

**PROPOSED SERVICE INSTALLATION  
POLE TOP MOUNTED TRANSFORMER**

**NOTES:**

1. THE PAY ITEM - "ELECTRIC UTILITY SERVICE CONNECTION" SHALL CONSIST OF PAYMENT FOR WORK PERFORMED BY THE ELECTRIC UTILITY COMPANY IN PROVIDING OR MODIFYING ELECTRIC SERVICE AS INDICATED.
2. THE PAY ITEM- "ELECTRIC SERVICE INSTALLATION" SHALL CONSIST OF ALL MATERIAL AND LABOR REQUIRED TO EXTEND, CONNECT OR MODIFY THE ELECTRIC SERVICE AS INDICATED OR SPECIFIED, WHICH IS OVER AND ABOVE THE WORK PERFORMED BY UTILITY COMPANY. THE SERVICE METER SOCKET, AS APPLICABLE, MOUNTED ELSEWHERE, SHALL BE INCLUDED IN THIS PAY ITEM.
3. SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE PROJECT DRAWINGS.
4. ELECTRIC SERVICE SPAN BETWEEN THE CONTROLLER AND UTILITY TRANSFORMER SHALL NOT EXCEED 250 FEET.
5. CONDUIT FOR SERVICE CABLE:
  - 5.1 CONDUIT DIAMETER AND CONDUIT FITTINGS SHALL BE SIZED WITH WIRE GAUGE AND MAXIMUM NUMBER OF CONDUCTORS PERMITTED BY NEC.
  - 5.2 CONDUIT FOR SERVICE CABLE SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT.
  - 5.3 PVC COATED GALVANIZED STEEL CONDUIT AND CONDUIT FITTINGS OF THE SAME TYPE SHALL BE CAREFULLY INSTALLED WITH MANUFACTURER'S RECOMMENDED TOOLS AND PROCEDURES. DAMAGE TO CONDUIT SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACE AT NO ADDITIONAL COST.
  - 5.4 THE COUPLING (CONDUIT FITTING) SHALL BE A METALLIC TO NON-METALLIC ADAPTER BETWEEN STEEL CONDUIT AND PVC CONDUIT.
  - 5.5 CONCRETE COVER OVER THE ENCASED RACEWAY RUN SHALL BE A MINIMUM 3 INCH ALL AROUND.
6. PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS OF THE UTILITY SERVICE WITHOUT EVERY ACCESSORY AND ATTACHMENT. THE CONTRACTOR IS OBLIGED TO THE CONTRACTOR SHALL COORDINATE IN FURNISHING ALL MATERIAL AND WORK NOT PROVIDED BY THE UTILITY FOR COMPLETING ELECTRIC SERVICE INSTALLATION.
7. THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER AND UTILITY COMPANY BEFORE BACKFILL AND/OR ENCLOSING ELECTRIC SERVICE INSTALLATION.



DETAILS FROM BEO/IDOT 05-21-05

**Sunjoy Inc.**  
Area Lighting  
212 TIMBERCREST DRIVE  
SCHAUMBURG, ILLINOIS  
60193-1572

ILLINOIS DEPARTMENT OF TRANSPORTATION  
VILLAGE OF SUGAR GROVE, KANE COUNTY  
INTERSECTION: GALENA BOULEVARD WITH  
ILLINOIS ROUTE 47  
**ELECTRIC SERVICE INSTALLATION  
ABOVE GROUND**  
SCALE: NONE  
DATE: 4-20-08  
DRAWN BY: HKQ  
CHECKED BY: JS  
BE-220