

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
ELECTRIC SERVICE INSTALLATION	EACH	1
ELECTRIC UTILITY SERVICE CONNECTION	L. SUM	1
GROUND ROD, 5/8" DIA. X 10 FT	EACH	23
CONDUIT IN TRENCH, 2 1/2" DIA. GALVANIZED STEEL	FOOT	35
CONDUIT PUSHED, 4" DIA GALVANIZED STEEL	FOOT	260
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	35
POLYETHYLENE DUCT BORED AND PULLED 1 1/4" DIA. WITH ELECTRIC CABLE, 600 V (XLP-TYPE USE), 3-1/C NO.4 AND 1-1/C NO.6 GROUND	FOOT	5,700
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 3/0	FOOT	75
LIGHTING CONTROLLER, SPECIAL	EACH	1
LIGHT POLE, ALUMINUM, 45 FT MOUNTING HEIGHT 10 FT DAVIT ARM	EACH	14
LIGHT POLE, ALUMINUM, 45 FT MOUNTING HEIGHT 6 FT DAVIT ARM	EACH	4
LIGHTING UNIT 30 FT MOUNTING HEIGHT	EACH	11
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	140
LIGHT POLE FOUNDATION, 24" DIAMETER OFFSET	FOOT	40
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT: 400 WATT, (SPECIAL)	EACH	18
LIGHT POLE FOUNDATION METAL, 11" BOLT CIRCLE, 8" x 6'	EACH	11
BREAKAWAY DEVICE, TRANSFORMER BASE, 15" BOLT CIRCLE	EACH	18

LUMINAIRE: ARCHITECTURAL AREA ROADWAY LIGHTING (LITHONIA LIGHTING) ARIES SERIES CAT. # AS2-400 S-SR3-240-ASKMA2-DDB  
 KIM, ARCHETYPE SERIES  
 CAT. # 1A-AR3-250 HPS 240 DBP  
 CAT. # 1A-AR3-250 HPS 240 DBP-HS

KIM POLE: CAT. # LTRA30-8188-A-DBP OR APPROVED EQUAL

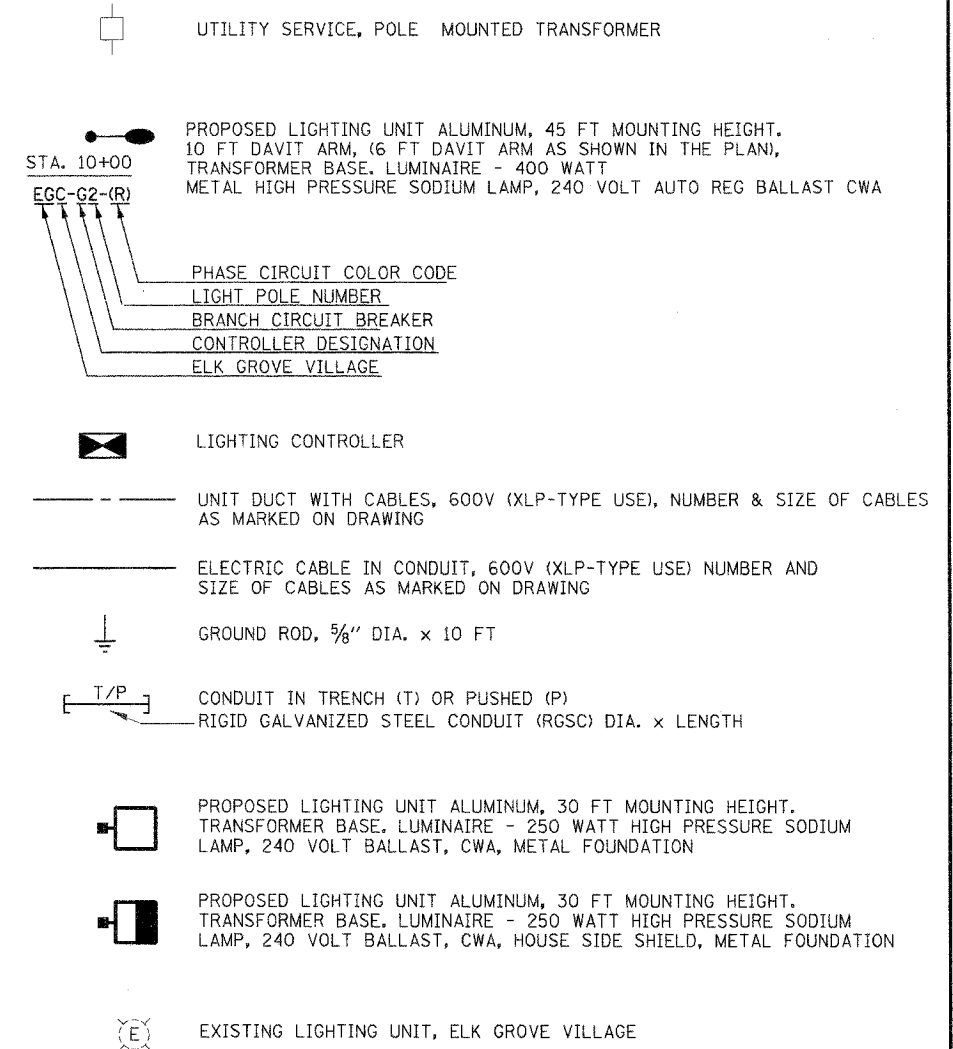
GENERAL NOTES

- WHERE SEPARATE CIRCUIT RUNS ARE TO BE INSTALLED PARALLEL WITH EACH OTHER, ONE COMMON TRENCH SHALL BE USED AND SHALL BE MEASURED ONLY ONCE FOR PAYMENT, AS TRENCH AND BACKFILL FOR ELECTRIC WORK.
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENT FOR BURIED WARNING TAPE, SPECIFIED AS PART OF " TRENCH AND BACKFILL FOR ELECTRICAL WORK". THE INSTALLATION OF THE TAPE SHALL BE INSPECTED AND APPROVED BY THE RESIDENT ENGINEER PRIOR TO BACKFILLING OR DURING PLOWING OPERATION, AS APPLICABLE.
- THE RESIDENT ENGINEER SHALL LOCATE IN FIELD, ALL PROPOSED ROADWAY LIGHTING ITEMS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE RESIDENT ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE BUT THE RESPONSIBILITY FOR COORDINATING THE FINISHED GRADE ELEVATION WITH THE TOP OF THE FOUNDATION HEIGHTS AND THE LIGHT SHALL REMAIN WITH THE CONTRACTOR.
- THE CONTRACTOR SHALL SUBMIT FOR THE RESIDENT ENGINEER REVIEW, UPON CONTRACT EXECUTION, EIGHT (8) COPIES OF APPROVABLE MANUFACTURER'S PRODUCT DATA AND DETAILED SHOP DRAWINGS TO THE ENGINEER.  
 THE LIST OF CATALOG CUTS AND SHOP DRAWINGS AS MINIMUM SHALL INCLUDE: THE FOLLOWING:  
 a. TRENCH: ELECTRICAL WARNING TAPE  
 b. FOUNDATION: CONCRETE MIX, STEEL REINFORCEMENT, RACEWAYS, ANCHOR BOLTS WITH NUTS & WASHERS.  
 c. CONDUIT: CONDUIT AND CONDUIT FITTINGS.  
 d. GROUND ROD: GROUND ROD, COPPER WIRE, EXOTHERMIC WELD.  
 e. UNIT DUCT/CABLES: UNIT DUCT, CABLES  
 f. ELECTRIC CABLES: ELECTRIC CABLES  
 g. ELECTRIC ITEMS: ELECTRIC TAPES, QUICK DISCONNECT, FUSE & LAMP.  
 h. LIGHT POLE - DETAIL SHOP DRAWING FOR SHAFT MAST ARM AND BASE, WIND LOAD CALCULATION TO MEET AASHTO GUIDE LINES  
 i. LUMINAIRE: DETAIL: DRAWING,, BALLAST ASSEMBLY PHOTOMETRY FILE  
 j. LIGHTING CONTROLLER: CIRCUITRY DETAIL, CATALOG ON MATERIALS.  
 k. BREAKAWAY DEVICE: TRANSFORMER BASE WITH AASHTO DESIGN COMPLIANCE.
- ALL ELECTRIC CABLE CIRCUIT SHALL BE FULLY PIGMENTED COLOR CODED AND TAGGED AS SHOWN ON THE DRAWINGS.  
 COLOR CODING SHALL BE:  
 RED/BLACK - CIRCUIT PHASE WIRES  
 WHITE-NEUTRAL,  
 GREEN-GROUND
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENT OF THE WIRE MAKERS AND SHALL TAG ALL WIRE MARKERS AND SHALL TAG ALL WIRE ACCORDINGLY.
- LIGHT POLE FOUNDATION HOLE:  
 EACH HOLE FOR THE FOUNDATIONS SHALL BE INSPECTED BY THE RESIDENT ENGINEER PRIOR TO POURING CONCRETE FOUNDATIONS.
- NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. AT (1-800-892-0123) TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.
- THE CENTER OF LIGHT POLE FOUNDATION FROM BACK OF CURB (OFFSET) SHALL BE AS SHOWN ON THE PLAN.
- THE CONTRACTOR SHALL COMPLY WITH IDOT STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, SPECIAL PROVISIONS, NATIONAL ELECTRIC CODE AND ALL LOCAL CODES AND ORDINANCES.
- ALL UNIT DUCT SHALL BE INSTALLED USING THE BORE AND PULL METHOD.  
 ALL BORING SHALL BE AT A MINIMUM DEPTH OF 30" BELOW EXISTING GRADES.
- ALL STREET CROSSINGS SHALL HAVE RIGID GALVANIZED STEEL CONDUIT OF THE SIZE INDICATED PUSHED BENEATH THEM. PAYMENT SHALL BE LIMITED TO THE ACTUAL ROADWAY WIDTH PLUS TWO FEET (2') ON EACH SIDE. THE COST FOR PULLING THE UNIT DUCT THROUGH THE CONDUIT SHALL BE INCLUDED IN THE UNIT PRICE FOR PUSHING THE RIGID GALVANIZED STEEL CONDUIT.
- CONDUIT AND UNIT DUCT MUST BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH TREES, BUSHES, DRAINS AND OTHER UTILITIES AND LANDSCAPING.
- ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE U/L LISTED AND LABELED
- DARK BRONZE POWDER COAT FINISH - POLE, DAVIT ARM, TRANSFORMER BASE AND LIGHTING CONTROLLER.
- POLE FUSES AND ASSOCIATED HARDWARE/MATERIAL SHALL BE PART OF THE LUMINAIRE PAY ITEM.
- THE LIGHTING UNIT IDENTIFICATION DECALS- LETTERS AND NUMERALS SHALL BE IN REFLECTIVE WHITE ON PRESSURE SENSITIVE REFLECTIVE BRONZE SHEETING.
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR THE ELECTRICAL SERVICE FOR THE PROPOSED ROADWAY LIGHTING. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR TIMELY NOTIFICATION AND COORDINATION WITH THE ELECTRICAL UTILITY COMPANY.
- ALL DISTURBED AREA WHERE RESTORATION IS NOT COVERED BY APPLICABLE SECTIONS OF THE SPECIAL PROVISIONS MUST BE RESTORED TO THE SATISFACTION OF THE ENGINEER. THE WORK MUST BE CONSIDERED INCIDENTAL TO THE CONTRACT. SEPARATE PAYMENT WILL NOT BE MADE.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1346		COOK/DUPAGE	84	40

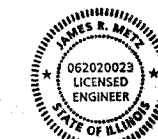
• ELK GROVE VILLAGE 99-00041-00-CH  
 CONTRACT NO. 83766

SYMBOLS



NOTE:

- THE MATERIALS AND WORK FOR THIS PROJECT SHALL CONFORM TO THE APPLICABLE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED 2002 AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS. ISSUED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION. SPECIAL PROVISIONS CHECK LIST IS ATTACHED WITH THIS PROJECT.



James R. Metz  
 Exp. 11/30/05

PROJECT DRAWING \*E-1 TO \*E-9  
 ARE PREPARED BY SUNJOY INC.

REVISION 09-11-04

 Sunjoy Inc. Area Lighting 212 TIMBERCREST DRIVE SCHAUMBURG, ILLINOIS 60193-1572	ILLINOIS DEPARTMENT OF TRANSPORTATION ELK GROVE VILLAGE DEVON AVENUE @ WOOD DALE ROAD/TONNE ROAD
	<b>BILL OF MATERIALS, SYMBOLS &amp; GENERAL NOTES</b>
SCALE: DATE: 04-25-04	DRAWN BY: HMQ CHECKED BY: JS