

BILL OF MATERIALS

Y030-1E

PAY CODE	ITEM	UNIT	QUAN
80400100	ELECTRIC SERVICE INSTALLATION	EACH	3
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L. SUM	1
80700110	GROUND ROD, 3/4" DIA. x 10 FT	EACH	6
81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	630
81018600	CONDUIT PUSHED, 2 1/2" DIA. GALVANIZED STEEL	FOOT	524
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	600
81702440	ELECTRIC CABLE IN CONDUIT 600 V (XLP TYPE USE-2) 3-1/C 1/0	FOOT	720
82102310	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT 310 WATT	EACH	51
82500505	LIGHTING CONTROLLER, SPECIAL	EACH	3
83002400	LIGHT POLE, ALUMINUM, 40 FT MOUNTING HEIGHT, 10 FT DAVIT ARM	EACH	11
83002500	LIGHT POLE, ALUMINUM, 40 FT MOUNTING HEIGHT, 12 FT DAVIT ARM	EACH	40
83600355	LIGHT POLE FOUNDATION, METAL 15" BOLT CIRCLE, 8' x 6FT	EACH	51
83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15" BOLT CIRCLE	EACH	51
84200500	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	11
84200600	REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE	EACH	19
84200705	LIGHTING FOUNDATION REMOVAL PARTIAL	EACH	28
X8950080	REMOVE EXISTING LIGHTING CONTROLLER	EACH	3
XX006332	POLYETHYLENE DUCT BORED AND PULLED, 1 1/4" DIA WITH ELECTRIC CABLE 600V (XLP-TYPE USE-2), 2-1/C NO. 6 AND 1/C NO. 6 GROUND	FOOT	12,000
* 21101615	TOP SOIL, FURNISH AND PLACE 4"	SQ YD	100
* 25000110	SEEDING CLASS IA	ACRE	0.01
70102625	TRAFFIC CONTROL AND PROTECTION STA. 701606	LS	1
X0323574	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	3
67100100	MOBILIZATION	LS	1

* Specialty Items

TEMPORARY LIGHTING

DURING PROPOSED ROADWAY LIGHTING INSTALLATION, THE CONTRACTOR SHALL MAINTAIN EXISTING LIGHTING AS TEMPORARY LIGHTING, THE EXISTING ROADWAY LIGHTING SYSTEMS WHICH ARE BEING REPLACED MUST REMAIN OPERATIONAL THROUGHOUT THE PROJECT AND/OR AS DIRECTED BY THE ENGINEER. NO LIGHTING CIRCUIT OR PORTION THEREOF SHALL BE REMOVED FROM NIGHTTIME OPERATION WITHOUT THE APPROVAL OF THE ENGINEER.

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 ELECTRICAL WORK.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES FOR EXAMINATION AND CONFIRMATION WITH THE ENGINEER AT THE PRECONSTRUCTION INSPECTION. THE EXACT LOCATIONS OF ALL OTHER ROADWAY LIGHTING ITEMS, INCLUDING THE LIGHTING CONTROLLER(S), SHALL BE CONFIRMED WITH THE ENGINEER PRIOR TO STARTING WORK.
- THE RESPONSIBILITY FOR COORDINATING FINISHED GRADE ELEVATION WITH THE TOP OF THE FOUNDATION HEIGHTS SHALL BE REMAIN WITH THE CONTRACTOR.
- THE CONTRACTOR SHALL SUBMIT FOR THE RESIDENT ENGINEER APPROVAL, WITHIN 30 DAYS AFTER CONTRACT EXECUTION, EIGHT (8) COPIES OF APPROVABLE MANUFACTURER'S PRODUCT DATA AND DETAIL SHOP DRAWINGS TO THE ATTENTION OF HOFFERLE-BUTLER ENGINEERING, INC., 8714 SOUTH ROBERTS ROAD, HICKORY HILLS, IL 60457, PH. 708-599-8980 THE FOLLOWING:
 - TRENCH: ELECTRICAL WARNING TAPE
 - FOUNDATION: CLASS "C" CONCRETE, REINFORCEMENT, RACEWAYS. ANCHOR BOLTS WITH NUTS & WASHERS.
 - CONDUIT: CONDUIT AND CONDUIT FITTINGS.
 - GROUND ROD: GROUND ROD, COPPER WIRE, EXOTHERMIC WELD.
 - UNIT DUCT/CABLES: UNIT DUCT, CABLES
 - ELECTRIC CABLES: ELECTRIC CABLES
 - LIGHT POLE/ARM: POLE DETAILS, SHOP DRAWING, & WIND LOAD CALCULATIONS, POLE WIRE
 - LUMINAIRE: ROADWAY LUMINAIRE WITH BALLAST ASSEMBLY.
 - ELECTRICAL ITEMS: ELECTRIC TAPES, QUICK DISCONNECT WITH FUSE, LAMPS.
 - LIGHTING CONTROLLER: CIRCUITRY DETAIL, CATALOG ON MATERIALS, PAINT.
 - METAL FOUNDATION - FABRICATION AND METAL DETAILS
- UNIT DUCT SHALL BE 1/4" DIA. DUCT WITH 2-1/C NO.6 (BLACK-RED), 1/C NO.6 (GREEN) GROUND SOLID COLOR CODED INSULATED CONDUCTOR.
- THE CONTRACTOR SHALL SUBMIT FOUR (4) SET FULL SIZED COMPLETE, NEAT AND ACCURATE "RECORD DRAWINGS" PLAN SETS TO THE ENGINEER FOR REVIEW AND COMMENT, AS SPECIFIED. THE "RECORD DRAWINGS" SHALL BE UPDATED ON A REGULAR BASIS AND DEPICT ALL ROADWAY LIGHTING MATERIAL INSTALLATIONS WITH ANY CHANGES INDICATED IN RED. "RECORD DRAWINGS" SHALL BE SUBMITTED AT LEAST 7 DAYS BEFORE SCHEDULING A FINAL INSPECTION.
- THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. AT (1-800-892-0123) TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL GIVE IN WRITING TO THE ENGINEER FOR REVIEW, CONSTRUCTION STAGING FOR THE PROPOSED ROADWAY LIGHTING WORK, AND THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE ENGINEER.
- THE LIGHT POLE SETBACK SHALL BE 8'6" FROM THE BACK OF CURB TO THE FACE OF FOUNDATION.
- RESTORATION OF PARKWAY AND PROJECT SITE SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES AND ORDINANCES.
- THE PROPOSED TRENCH SHALL BE 30 INCH BELOW FINISHED GRADE
- ALL ELECTRICAL EQUIPMENT AND PRODUCT SHALL BE UL LISTED AND LABELED
- POLE FUSESD AND ASSOCIATED HARDWARE/MATERIAL SHALL BE INCLUDED IN THE LUMINAIRE PAY ITEM
- 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.
- THE ENGINEER WILL NOT AUTHORIZE PARTIAL ACCEPTANCE OF THE PROJECT. FINAL INSPECTION AND ACCEPTANCE OF THE PROJECT WILL ONLY BE PERMITTED ONCE PER SECTION 801.13 OF THE STANDARD SPECIFICATIONS.

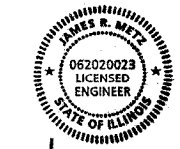
SYMBOLS

- EXISTING LIGHTING UNIT, REMAIN IN PLACE
- REM-S REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE
- REM REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE
- REM REMOVE EXISTING LIGHTING CONTROLLER
- LIGHT POLE, ALUMINUM, 40 FT MOUNTING HEIGHT, 12 FT DAVIT ARM, 15" DIA BOLT CIRCLE, MOUNTED ON BREAKAWAY TRANSFORMER BASE. LUMINAIRE, HIGH PRESSURE SODIUM VAPOR, HORIZONTAL MOUNT, 310 WATT CLEAR LAMP, 240 VOLT BALLAST, CWA (MAG. REG) LIGHT POLE FOUNDATION - METAL
- LIGHT POLE, ALUMINUM, 40 FT MOUNTING HEIGHT, 10 FT DAVIT ARM, 15" DIA BOLT CIRCLE, MOUNTED ON BREAKAWAY TRANSFORMER BASE. LUMINAIRE, HIGH PRESSURE SODIUM VAPOR, HORIZONTAL MOUNT, 310 WATT CLEAR LAMP, 240 VOLT BALLAST, CWA (MAG. REG) LIGHT POLE FOUNDATION - METAL
- STA 40+90 STATION NUMBER (TYP)
- LC1-A13 POLE NUMBER (TYP)
- CIRCUIT BREAKER DESIGNATION
- LIGHTING CONTROLLER NUMBER
- GROUND ROD, 3/4" DIA. x 10 FT
- ELECTRIC CABLE IN CONDUIT, NUMBER AND SIZE OF CONDUCTORS AND DIAMETER OF CONDUIT AS SHOWN IN DETAILS
- ELECTRIC CABLE IN DUCT, NUMBER AND SIZE AND TYPE OF CONDUCTORS AND DIAMETER OF DUCT AS SHOWN IN DETAILS
- T/P CONDUIT IN TRENCH (T) / CONDUIT, PUSHED (P) RIGID GALVANIZED STEEL CONDUIT DIAMETER x LENGTH
- UTILITY SERVICE, POLE MOUNTED TRANSFORMER
- LIGHTING CONTROLLER, SPECIAL

NOTE:

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

ELECTRICAL ENGINEER



James R. Metz
Exp. 11/30/05

PROJECT DRAWINGS *E-2 TO *E-14 ARE PREPARED BY SUNJOY INC.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
73rd STREET (FAU 1569)
VILLAGE OF BEDFORD PARK

BILL OF MATERIALS, SYMBOLS & GENERAL NOTES

SCALE: 1"=20'-0"
DATE: 04-15-05

DRAWN BY: HMQ
CHECKED BY: JS

REVISION 5-28-05
REVISION 5-21-05