











SUMMARY OF QUANTITIES

| PAY CODE | ITEM | UNIT | QUANTITY |
|----------|---|--------|----------|
| 80400100 | ELECTRIC SERVICE INSTALLATION | EACH | 1 |
| 80400200 | ELECTRIC UTILITY SERVICE CONNECTION | L. SUM | 1 |
| 81000800 | CONDUIT IN TRENCH, 3" DIA. GALVANIZED STEEL | FOOT | 120 |
| 81018900 | CONDUIT PUSHED, 4" DIA. GALVANIZED STEEL | FOOT | 264 |
| 81702460 | ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 3/0 | FOOT | 150 |
| 81900200 | TRENCH AND BACKFILL FOR ELECTRICAL WORK | FOOT | 500 |
| 82102310 | LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 310 WATT | EACH | 8 |
| 82500505 | LIGHTING CONTROLLER SPECIAL | EACH | 1 |
| 83006500 | LIGHT POLE, ALUMINUM, 30 FT. M.H., 12 FT. MAST ARM | EACH | 4 |
| 83600200 | LIGHT POLE FOUNDATION, 24" DIAMETER | FOOT | 234 |
| 83600215 | LIGHT POLE FOUNDATION, OFFSET | FOOT | 50 |
| | POLYETHYLENE DUCT BORED AND PULLED, 1 1/4" DIA. WITH ELECTRIC CABLE 600 V (XLP-TYPE USE), 3-1/C NO. 6 AND 1/C NO.6 GROUND | FOOT | 2,756 |
| | ORNAMENTAL LIGHTING UNIT, ALUMINUM POST WITH CAST ALUMINUM BASE, 16 FT HEIGHT, POST, TOP MOUNTED LUMINAIRE, 50 WATT HPS | EACH | 11 |
| | ORNAMENTAL LIGHTING UNIT, ALUMINUM POST WITH CAST ALUMINUM BASE, 16 FT HEIGHT, POST, TOP MOUNTED LUMINAIRE, 150 WATT HPS | EACH | 17 |
| | REMOVAL OF LIGHTING UNIT, SALVAGE | EACH | 2 |
| XX006937 | GROUND ROD, 5/8" DIA. X 10 FT. | EACH | 32 |

- 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.
- THE CONTRACTOR SHALL CONSULT WITH RESIDENT ENGINEER IN THE FIELD, AND FINALIZED ALL EXISTING ROADWAY LIGHTING ITEMS.
- THE RESPONSIBILITY FOR COORDINATION FINISHED SIDEWALK ELEVATIONS WITH THE TOP OF THE FOUNDATIONS HEIGHTS SHALL REMAINS WITH THE CONTRACTOR.
- THE CONTRACTOR SHALL SUBMIT FOR THE RESIDENT ENGINEER REVIEW WITHIN 30 DAYS A DATA AND DETAIL SHOP DRAWINGS TO THE ATTENTIONS VILLAGE OF NILES, COOK COUNTY DEPARTMENT OF PUBLIC WORKS:
 - TRENCH, ELECTRICAL WARNING TAPE
 - FOUNDATION: CONCRETE MIX, RACEWAYS, ANCHOR BOLTS WITH NUTS & WASHERS.
 - CONDUIT: CONDUIT AND CONDUIT FITTINGS, BONDING COMPOUND
 - GROUND ROD: GROUND ROD, COPPER WIRE, EXOTHERMIC WELD.
 - UNIT DUCT/CABLES
 - ELECTRIC CABLES
 - ELECTRIC TAPES, QUICK DISCONNECT, FUSE & LAMP.
 - LIGHT POLES/ARM: DETAILS SHOP DRAWING, WIND LOAD CALCULATIONS (SHALL BE REVIEWED BY CONSULTANT CIVIL ENGINEER)
 - LUMINAIRE: LUMINAIRE WITH BALLAST ASSEMBLY
 - LIGHTING CONTROLLER: CIRCUITRY DETAIL, CATALOG ON MATERIALS.
- ELECTRIC CABLE INSULATION SHALL BE FULLY PIGMENTED COLOR CODED AS SPECIFIED.
- FINISH PAINT:
THE PAINT COLOR AND FINISH SHALL BE POWDER COATED. FOR THE LIGHT POLE AND LUMINAIRE THE VILLAGE OF NILES SHALL APPROVE THE PAINT COLOR AND FINISH.
- LIGHT POLE FOUNDATION HOLE,
EACH HOLE FOR THE FOUNDATIONS SHALL BE INSPECTED BY THE RESIDENT ENGINEER PRIOR TO POURING CONCRETE FOUNDATIONS.
- THE CONTRACTOR SHALL SUBMIT FOUR (4) SETS OF FULL SIZED COMPLETE, NEAT AND A LDINSPECTION.
- 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 NOTIFY THE VILLAGE OF NILES TO LOCATE AND MARK/STAKE ALL VILLAGE OWNED 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 PRIOR WRITTEN APPROVAL FROM THE RESIDENT ENGINEER.

- THE LIGHT POLE SETBACK:
3'-0" FROM BACK OF CURB TO THE FACE OF FOUNDATION.
- RESTORATION OF PARKWAY AND PROJECT SITE SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL CHISEL ARROWS LOCATING ALL CONDUIT CROSSINGS ACROSS ROADWAYS. THE CHISEL MARKS SHALL BE ON THE CURB.
- THE CONTRACTOR SHALL COMPLY WITH ALL LATEST IDOT, IES, NEC AND LOCAL CODES AND ORDINANCES.
- ALL UNIT DUCT SHALL BE INSTALLED USING THE BORE AND PULL METHOD. ALL BORING S
- ALL STREET CROSSINGS SHALL HAVE GALVANIZED STEEL CONDUIT OF THE SIZE INDICATED PUSHED BENEATH THEM. PAYMENT SHALL BE LIMITED TO THE ACTUAL WIDTH PLUS TWO FEET (BE INCLUDED IN THE UNIT PRICE FOR PUSHING THE GALVANIZED STEEL CONDUIT.
- THE CONTRACTOR SHALL MAINTAIN, THE EXISTING LIGHTING SYSTEM IN OPERATION, DURING THE CONSTRUCTION PHASE OF PROPOSED LIGHTING.
- ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE U/L LISTED AND LABELED.

SYMBOLS

-  PROPOSED LIGHTING UNIT, 30FT. MH, 12FT. MA 310W HPS MCIII, 240V LUMINAIRE WITH 18FT. MH 50W HPS LUMINAIRE, MAINTAINED BY THE VILLAGE OF NILES
-  EXISTING LIGHTING UNIT, 30 FT MH, 12 FT MA 250W HPS MCIII, 240V LUMINAIRE, MAINTAINED BY THE VILLAGE OF NILES, REMAIN IN PLACE
-  EXISTING UTILITY SERVICE POLE, COMED #80423 240 VOLT/480 VOLT, 1 PHASE
-  SERVICE CABLE IN CONDUIT, ELECTRIC CABLE IN CONDUIT 600V (XLP-TYPE USE-2), 3-1/C NO. 3/0 3" DIA CONDUIT
-  POLYETHYLENE DUCT BORED AND PULLED, 1 1/4" DIA WITH ELECTRIC CABLE 600 V (XLP - TYPE USE-2) 3-1/C NO. 6 AND 1/C NO. 6 GROUND
-  GROUND ROD, 5/8" DIA. x 8 FT
-  LIGHTING CONTROLLER, SPECIAL CONSOLE TYPE 200 AMPERE - 240/480 VOLT, 1 PHASE
-  GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P) DIAMETER x LENGTH
-  ORNAMENTAL LIGHTING UNIT, ALUMINUM POST WITH CAST ALUMINUM BASE 16 FT HEIGHT, POST TOP MOUNTED LUMINAIRE, 50 WATT MCIII CLEAR HIGH PRESSURE SODIUM LAMP BALLAST- MULTIVOLT TYPE CWA, 240 VOLT (LINE TO NEUTRAL) LIGHTING UNIT PAINTED IN BLACK COLOR FINISH
-  STA. 156+67 H-1 (B) ORNAMENTAL LIGHTING UNIT, ALUMINUM POST WITH CAST ALUMINUM BASE 16 FT HEIGHT, POST TOP MOUNTED LUMINAIRE, 150 WATT MCIII CLEAR HIGH PRESSURE SODIUM LAMP BALLAST- MULTIVOLT TYPE CWA, 240 VOLT (LINE TO NEUTRAL) LIGHTING UNIT PAINTED IN BLACK COLOR FINISH
PHASE COLOR
CIRCUIT BREAKER WITH POLE NUMBER

ORNAMENTAL LIGHTING UNIT
MANUFACTURED BY STERNBERG LIGHTING

a. POST WITH CAST ALUMINUM BASE LOUISVILLE #5614-TS-BK

b. POST TOP MOUNTED LUMINAIRE
EURO SERIES #E450-SG 150W OR 50W HPS-MULTI 240-BK



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|-----------------------|-----------------|-----------|
| USER NAME = charlke | DESIGNED - BDL | REVISED - |
| PLOT SCALE = NTS | DRAWN - CMH | REVISED - |
| PLOT DATE = 1/16/2009 | CHECKED - APS | REVISED - |
| | DATE - 12/16/08 | REVISED - |

VILLAGE OF NILES

BILL OF MATERIALS, SYMBOLS, & GENERAL NOTES

SCALE: NTS SHEET NO. 1 OF 13 SHEETS STA. TO STA.

| | | | | |
|--------------------------|------------------------|-------------|------------------|--------------|
| F.A.U. RTE. 3513 | SECTION 08-00107-01-PV | COUNTY COOK | TOTAL SHEETS 169 | SHEET NO. 74 |
| CONTRACT NO. M-8003(723) | | | | |