

### LIGHTING GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS AS WELL AS:

ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS ADOPTED JANUARY 1, 2002.

ILLINOIS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2004.

ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (LATEST EDITION IN EFFECT ON THE DATE OF INVITATION FOR BIDS).

NATIONAL ELECTRIC CODE, 2002 EDITION.

2. DISTRICT ONE RECURRING SPECIAL PROVISIONS FOR ROADWAY LIGHTING, ADOPTED JANUARY 1, 2002.

THE CONTRACTOR SHALL MAINTAIN A SET OF CONSTRUCTION RECORD DRAWINGS NOTING ALL CHANGES TO THE PLANS AND THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES ENCOUNTERED. A MYLAR REPRODUCIBLE AS-BUILT DRAWING AND TWO (2) PAPER SETS MUST BE SUBMITTED TO THE VILLAGE OF SCHAUMBURG DEPARTMENT OF ENGINEERING FOR REVIEW AND APPROVAL UPON COMPLETION OF THE PROJECT.

3. NOMINAL QUANTITIES FOR THE FOLLOWING PAY ITEMS HAVE BEEN INCLUDED IN THE PLANS AND SHALL BE UTILIZED AS DIRECTED BY THE ENGINEER:

LIGHT POLE FOUNDATION, 24" DIA., OFFSET TEST HOLE	132 L. F. 46 EACH
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4. WITHIN THIRTY (30) DAYS AFTER THE CONTRACT IS SIGNED AND BEFORE ANY WORK IS AUTHORIZED BY THE ENGINEER, THE CONTRACTOR SHALL SUBMIT MANUFACTURER'S LITERATURE PERTAINING TO LIGHTING WORK FOR THE ELECTRICAL ENGINEER'S REVIEW AND APPROVAL.

5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LUMINAIRES FOR EXAMINATION AND CONFIRMATION WITH THE ENGINEER AT THE PRE-CONSTRUCTION INSPECTION.

6. THE ENGINEER SHALL APPROVE THE LOCATIONS OF ALL PUSH PITS.

7. NO CONSTRUCTION MATERIALS OR EQUIPMENT SHALL BE STORED IN OR MOVED THROUGH THE DRIPLINE OF ANY PARKWAY TREE. IF THIS CLEARANCE CANNOT BE MAINTAINED, THE LANDSCAPE PLANNER (847-923-3866) MUST BE NOTIFIED PRIOR TO CONSTRUCTION.

8. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO ARTICLE 801.04 OF THE STANDARD SPECIFICATIONS REGARDING THE PROPOSED LOCATIONS OF THE LIGHTING SYSTEM. ADDITIONALLY, THE UNIT DUCT ROUTING SHOWN ON THE PLANS IS MAINLY INTENDED TO SHOW ELECTRICAL CIRCUITRY. AN EFFORT HAS BEEN MADE TO AVOID UTILITY CONFLICTS BUT THE EXACT LOCATION OF ELECTRICAL CABLES AND CONDUITS SHOULD BE APPROVED BY THE ENGINEER AFTER THE UNDERGROUND UTILITIES HAVE BEEN LOCATED BY THEIR OWNERS. QUANTITIES SHOWN FOR UNIT DUCT AND CONDUIT SHALL BE CONFIRMED IN THE FIELD. THE ENGINEER SHALL APPROVE THE LOCATIONS OF ALL PUSH PITS.

THE CONTRACTOR SHALL KEEP DEVIATIONS FROM THE UNIT DUCT ROUTING SHOWN ON THE PLANS TO A MINIMUM. MAJOR DEVIATIONS SHALL BE REPORTED TO AND APPROVED BY THE ENGINEER BEFORE INSTALLATION.

9. 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 OPERATIONS, AS APPLICABLE.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE RESIDENT MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY FOR COORDINATING THE FINISHED GRADE ELEVATION WITH THE TOP OF THE FOUNDATION HEIGHT SHALL REMAIN WITH THE CONTRACTOR.

11. NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY THE ENGINEER.

12. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR WIRE MARKERS AND SHALL TAG ALL WIRE MARKERS ACCORDINGLY.

13. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR SPLICING ELECTRICAL CABLE. SEE "GENERAL ELECTRICAL REQUIREMENTS" AND SPLICING DETAIL ON SHEET 113.

14. THE CONTRACTOR SHALL MAKE NOTE OF THE REQUIREMENTS FOR GROUNDING.

A. GROUNDING CONNECTIONS AT THE FOUNDATION STEEL AND AT THE GROUND ROD SHALL BE EXOTHERMICALLY WELDED, AS SPECIFIED, AND SHALL BE INSPECTED AND APPROVED BY THE RESIDENT ENGINEER PRIOR TO POURING CONCRETE OR BACKFILLING, AS APPLICABLE.

B. EQUIPMENT GROUND CONDUCTORS (GREEN COLOR CODED) SHALL BE SPLICED AND PIGTAILED TO EACH METALLIC JUNCTION/PULL BOX THEY PASS THROUGH AS WELL AS AT EACH LIGHT POLE OR OTHER PIECE OF EQUIPMENT. THE CONNECTION SHALL UTILIZE U.L. LISTED CLAMPS, PRESSURE CONNECTORS, OR OTHER U.L. LISTED MEANS.

C. METALLIC JUNCTION/PULL BOXES SHALL BE EQUIPPED FOR THE GROUNDING WIRE TERMINATIONS WITHOUT DEGRADATION OF NEMA BOX RATING.

15. THE CONTRACTOR SHALL DISPOSE OF THE EXISTING ELECTRICAL MATERIAL AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE RESPECTIVE PAY ITEM.

16. THE LIGHTING SYSTEM SHALL REMAIN IN OPERATION DURING CONSTRUCTION.

### SCHEDULE OF QUANTITIES

CODE NUMBER	DESCRIPTION	UNIT	QUANTITY
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
80500300	SERVICE INSTALLATION, TYPE C	EACH	1
80700140	GROUND ROD, 5/8" DIA. X 10 FT.	EACH	45
81018600	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	205
81018700	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	1050
81601020	UNIT DUCT, WITH 3-1/2" NO. 4 AND 1/2" NO. 6 GROUND, 600V (XLP-TYPE USE), 1 1/4" DIA., POLYETHYLENE	FOOT	6650
81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/2" NO. 6	FOOT	550
81702170	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/2" NO. 2/0	FOOT	750
81702410	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/2" NO. 4	FOOT	550
82102150	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 150 WATT	EACH	2
82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	8
82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	34
82500540	LIGHTING CONTROLLER TYPE CB-RCS 100AMP - 480VOLT	EACH	1
83009600	LIGHT POLE, ALUMINUM, 45 FT. M.H., 15 FT. MAST ARM	EACH	42
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	14
83600215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	132
83800505	BREAKAWAY DEVICE, COUPLING, WITH ALUMINUM SKIRT	EACH	40
84200500	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	10
84200700	LIGHTING FOUNDATION REMOVAL	EACH	13
84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	3
X8410102	TEMPORARY LIGHTING SYSTEM	L SUM	1
X8410118	MAINTENANCE OF TEMPORARY LIGHTING SYSTEM	L SUM	1
X8950090	RELOCATE EXISTING LIGHTING CONTROLLER	EACH	1
XX003338	TEST HOLE	EACH	46
XX004051	LIGHT POLE, ORNAMENTAL	EACH	2
XX005084	LIGHTING CONTROLLER FOUNDATION	EACH	1
	JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE 16" X 12" X 6"	EACH	2
	LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 10'	EACH	31
	UNIT DUCT, WITH 5-1/2" NO. 4 AND 1/2" NO. 6 GROUND, 600V (XLP-TYPE USE), 1 1/2" DIA., POLYETHYLENE	FOOT	825

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
VILLAGE OF SCHAUMBURG  
MEACHAM ROAD  
LIGHTING IMPROVEMENTS  
GENERAL NOTES  
SCHEDULE OF QUANTITIES

SCALE: 1"=20'  
DATE: DECEMBER 2004

DRAWN BY: KDM  
CHECKED BY: JMW