

GENERAL NOTES

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLE FOUNDATIONS, CENTER LINE OF TRENCH AND CONDUIT PUSHES FOR EXAMINATION AND CONFIRMATION WITH THE VILLAGE AND ENGINEER. THE EXACT LOCATIONS OF ALL ITEMS SHALL BE CONFIRMED WITH THE ENGINEER PRIOR TO STARTING WORK.
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR GROUNDING. GROUNDING CONNECTIONS AT THE FOUNDATION SHALL BE EXOTHERMICALLY WELDED, AS SPECIFIED, AND SHALL BE INSPECTED AND APPROVED BY THE RESIDENT ENGINEER PRIOR TO POURING CONCRETE OR BACKFILLING, AS APPLICABLE.
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE SPECIFIED REQUIREMENTS FOR BURIED WARNING TAPE, SPECIFIED AS PART OF "TRENCH AND BACKFILL FOR ROADWAY LIGHTING". THE INSTALLATION OF THE TAPE SHALL BE INSPECTED BY THE ENGINEER PRIOR TO BACKFILLING OPERATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE 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 LIKE SHALL REMAIN WITH THE CONTRACTOR.
- NO LIGHT POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, A MINIMUM OF SEVEN DAYS OR AS APPROVED BY THE ENGINEER.
- TO MAINTAIN STRUCTURAL INTEGRITY OF THE LIGHT POLES WITH MAST ARMS, THEY SHALL NOT BE ERECTED AND LEFT TO STAND WITHOUT LUMINAIRES. NOTE THAT POLES SHALL NOT BE PAID UNTIL THE LUMINAIRES ARE INSTALLED.
- NO EQUIPMENT OR MATERIAL SHALL BE DELIVERED TO THE JOB SITE PRIOR TO THE APPROVAL AND INSPECTION BY THE ENGINEER. ANY EQUIPMENT OR MATERIAL DELIVERED TO THE JOB SITE PRIOR TO APPROVAL AND INSPECTION SHALL BE REMOVED FROM THE JOB SITE AT THE CONTRACTOR'S EXPENSE.
- CONDUIT PUSHED AND IN TRENCH SHALL EXTEND FIVE (5) FEET BEYOND THE SHOULDER, CURB OR DRIVEWAY, AS APPLICABLE.
- THE CONTRACTOR SHALL PROVIDE A 3/4" X 10' COPPER CLAD GROUND ROD AT EACH LIGHT POLE (REFER TO THE FOUNDATION DETAIL). THE GROUND ROD SHALL NOT BE EMBEDDED IN THE FOUNDATION.
- ALL CONDUIT SHALL BE INSTALLED MIN. 30 INCHES BELOW FINISHED GRADE (UNLESS DIRECTED OTHERWISE) COMPLETE WITH WARNING TAPE. CONTRACTOR SHALL HAND DIG TEST HOLES FOR EVERY 1000 FT. OF TRENCHING FOR ENGINEER'S APPROVAL OF THE INSTALLATION.
- MATERIALS AND INSTALLATION METHODS SHALL COMPLY WITH CODES AND ORDINANCES OF FEDERAL, STATE AND LOCAL GOVERNING BODIES HAVING JURISDICTION. NATIONAL ELECTRICAL CODE (LATEST REVISION) SHALL BE CONSIDERED AS A MINIMUM REQUIREMENT.
- IT IS CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION. CONTACT J.U.L.T.E. PRIOR TO THE START OF ANY EXCAVATION WORK.
- BEFORE INSTALLING STANDARDS NEAR OVERHEAD FACILITIES CALL COMED CO. FOR APPROVAL OF LOCATION.
- FOR LOCATION OF EXISTING UNDERGROUND MUNICIPAL UTILITIES CALL THE VILLAGE OF ARLINGTON HEIGHTS.
- MATERIAL QUANTITIES ARE APPROXIMATIONS ONLY. IT IS CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL QUANTITIES PRIOR TO ORDERING MATERIAL.
- THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION AND STAGING WITH OTHER WORK BEING DONE IN THE SAME GENERAL AREA BY COMED. CONTRACTOR SHALL SET UP COORDINATION MEETINGS IF REQUIRED.
- A STAGING SCHEDULE FOR MATERIAL INSTALLATION, REMOVAL AND APPROXIMATE DATE OF PROPOSED ENERGIZING OF PERMANENT LIGHTING SHALL BE SUBMITTED PRIOR TO THE COMMENCEMENT OF WORK TO ASSURE COORDINATION WITH CONTRACT WORK SCHEDULE.

LEGEND -- EXISTING

- REM EXISTING LIGHTING CONTROL CABINET TO BE REMOVED
- EXISTING VILLAGE OF ARLINGTON HEIGHTS LIGHTING UNIT TO REMAIN
- EXISTING VILLAGE OF ARLINGTON HEIGHTS LIGHTING UNIT TO REMAIN
- EXISTING VILLAGE OF ARLINGTON HEIGHTS LIGHTING UNIT (TYPE-A) TO BE REMOVED
- EXISTING TRAFFIC SIGNAL COMBINATION LIGHT POLE LUMINAIRE TO REMAIN
- EXISTING TRAFFIC SIGNAL COMBINATION LIGHT POLE LUMINAIRE TO BE REMOVED
- RELOCATED VILLAGE OF ARLINGTON HEIGHTS LIGHTING UNIT (TYPE-B) TO BE REMOVED
- RELOCATED VILLAGE OF ARLINGTON HEIGHTS LIGHTING UNIT (TYPE-B) TO BE RELOCATED

LEGEND -- PROPOSED

- PROPOSED LIGHTING CONTROL CABINET
- PROPOSED VILLAGE OF ARLINGTON HEIGHTS LIGHTING UNIT (TYPE-A) - SINGLE SEE SHEET E-17.
- PROPOSED VILLAGE OF ARLINGTON HEIGHTS LIGHTING UNIT (TYPE-A) - TWIN SEE SHEET E-17.
- PROPOSED VILLAGE OF ARLINGTON HEIGHTS LIGHTING UNIT (TYPE-B) - TWIN SEE SHEET E-18.
- PROPOSED VILLAGE OF ARLINGTON HEIGHTS LIGHTING UNIT (TYPE-B) - SINGLE SEE SHEET E-18.
- POLE NUMBER
- CIRCUIT IDENTIFICATION (LIGHTING FIXTURES) ("T" DENOTES TEMPORARY)
- LIGHTING CONTROL CABINET DESIGNATION
- TEMPORARY LIGHTING UNIT - SINGLE
- PROPOSED HANDHOLE
- EXISTING LIGHTING CABLE
- PROPOSED LIGHTING CABLE IN 2" SCHEDULE 80 PVC CONDUIT (CABLE SIZE AS NOTED)
- PROPOSED UNDERGROUND GRS CONDUIT
- AERIAL CABLE

ABBREVIATIONS

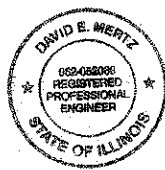
A.F.G.	ABOVE FINISHED GRADE	KW	KILOWATT
AWG	AMERICAN WIRE GAUGE	REL	RELOCATED
A/C	AERIAL CABLE	REM	REMOVED
C	CONDUIT	RGC	RIGID GALVANIZED STEEL CONDUIT
CKT	CIRCUIT	P	PROPOSED
DIA	DIAMETER	PVC	POLY VINYL CHLORIDE (SCHEDULE 80 CONDUIT)
E	ELECTRICAL	STA	STATION
EX	EXISTING	TEMP	TEMPORARY
GND	GROUND	UC	UNDERGROUND CONDUIT
GRS	GALVANIZED RIGID STEEL		

- COMMONWEALTH EDISON COMPANY SHALL BE CONTACTED AS SOON AS POSSIBLE AND NOTIFIED OF PENDING SERVICE CONNECTIONS AND INSTALLATIONS TO ENSURE CONTINUITY OF NIGHT TIME HOURS OF LIGHTING OPERATION.
- EXISTING LIGHTING CONTROL CABINET SHALL BE REUSED FOR TEMPORARY LIGHTING. MODIFICATION SHALL BE MADE AS REQUIRED. CABINET SHALL REMAIN IN USE UNTIL NEW LIGHTING CONTROL CABINET AND ASSOCIATED LIGHT POLES HAVE BEEN APPROVED AND ENERGIZED.
- PROPOSED NEW CONDUITS SHALL BE PVC SCHEDULE 80, UNLESS NOTED OTHERWISE.
- EACH WIRE SHALL BE IDENTIFIED AT EACH POLE BY APPROPRIATE CONTROLLER AND CIRCUIT NUMBER.
- CONTRACTOR SHALL SUBMIT "RECORD DRAWINGS" A MINIMUM OF 7 DAYS PRIOR TO THE FINAL INSPECTION. "RECORD DRAWINGS" SHALL BE UPDATED REGULARLY DURING CONSTRUCTION AND INDICATE ALL LIGHTING MATERIAL INSTALLATION WITH ANY CHANGES IN RED.
- ALL AREAS DISTURBED UNDER THIS CONTRACT SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE VILLAGE AND ENGINEER.
- CONTRACTOR SHALL NOT PROCEED WITH CUTTING OF TREES OR CLEARING OF RIGHT-OF-WAY WITHOUT WRITTEN NOTIFICATION AND APPROVED BY ENGINEER.
- CONTRACTOR TO VERIFY FOUNDATION BOLT PATTERN PRIOR TO CONSTRUCTING FOUNDATIONS.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY LIGHT POLES AND ASSOCIATED TEMPORARY CIRCUIT PER IDOT REQUIREMENTS. COORDINATE EXACT LOCATION WITH VILLAGE OF ARLINGTON HEIGHTS. DO NOT REMOVE EXISTING LIGHT POLE PRIOR TO TEMPORARY LIGHT POLES INSTALLED AND ACCEPTED BY ENGINEER.
- QUANTITY OF PUSHED CONDUIT AND CONDUIT IN TRENCH ARE APPROXIMATE ONLY. CONTRACTOR SHALL FIELD VERIFY THE QUANTITIES PRIOR TO ORDERING THE MATERIAL AND INSTALL CONDUITS IN FULL COMPLIANCE WITH THE DETAILS AND SPECIFICATIONS SET REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE NEW PHOTOCELL. A PHOTOCELL SHALL BE MOUNTED ON THE CLOSEST POLE TO THE NEW LIGHTING CONTROLLER. FURNISH WEATHER TIGHT ADAPTER FOR MOUNTING PHOTOCELL. PHOTOCELL CONTROL CABLES SHALL RUN INSIDE THE SAME RACEWAY AS THE LIGHTING CIRCUIT. THE PHOTOCELL AND PHOTOCELL WIRING SHALL BE INCLUDED IN THE BASE BID.
- THE CONTROLLER AND CIRCUIT DESIGNATIONS AS SHOWN ON THE DRAWINGS ARE FOR REFERENCE ONLY. EXACT DESIGNATIONS FOR DECALS SHALL BE AS DIRECTED BY THE OWNER.
- THE POLE DESIGNATION AS SHOWN ON THE DRAWINGS ARE FOR REFERENCE ONLY. EXACT DESIGNATION OF ALL NEW POLES AND RELOCATED POLES SHALL BE AS DIRECTED BY THE OWNER.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, FLAG AND PROTECT ALL EXISTING UNDERGROUND UTILITIES PRIOR TO AND DURING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY AT NO EXTRA COST TO THE VILLAGE. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF THE PROPOSED CONDUIT.
- CIRCUIT NUMBERING AND DESIGNATIONS SHOWN ON THE PLANS ARE FROM EXISTING DRAWINGS. CONTRACTOR SHALL VERIFY CIRCUIT NUMBERING, CABLE ROUTING AND POWER SOURCES DURING CONSTRUCTION.
- ANY EXISTING LIGHT POLES/FIXTURES/PHOTOCELLS REMOVED SHALL BE TURNED OVER TO THE VILLAGE. COORDINATE LOCATION AND DELIVERY TIMES WITH OWNER/ENGINEER. CONTRACTOR SHALL MAINTAIN THE EXISTING LIGHTING SYSTEM IN OPERATION DURING INSTALLATION OF TEMPORARY AND PROPOSED LIGHTING SYSTEM. TEMPORARY LIGHTING UNITS, INCLUDING THE TEMPORARY LUMINAIRE, AND THE EXISTING LIGHTING CONTROLLER SHALL BECOME PROPERTY OF THE CONTRACTOR ONCE REMOVED.
- UNLESS OTHERWISE INDICATED, ALL ITEMS AND WORK SHOWN ON THESE PLANS ARE PROPOSED NEW ITEMS OF WORK.
- CONTRACTOR'S STAGING AREA SHALL BE AS DIRECTED BY THE OWNER IN THE PRE-CONSTRUCTION MEETING.

- EXISTING POLES AND FIXTURES TO REMAIN, UNLESS NOTED OTHERWISE. REROUTE AND EXTEND CONDUIT AND WIRING AS REQUIRED FOR EXISTING REMAINING LIGHT POLES.
- CONTRACTOR SHALL OBTAIN EXISTING LIGHTING PLANS FROM THE VILLAGE OF ARLINGTON HEIGHTS PRIOR TO STARTING CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE NEW COMPLETE FIXTURES IN PROJECT LIMITS. PROPOSED FIXTURES SHALL BE MANUFACTURED BY AMERICAN ELECTRIC, TYPE 30-40-S-CA-MT2-R2-FG-BZ-UL-SS, 400W HPS, 50,000 LIGHT LUMENS, AND 30-25-S-CA-MT2-R3-FG-BZ-UL-SS, 250W HPS, 28,000 LIGHT LUMENS.
- CONTRACTOR SHALL PROVIDE NEW LIGHT POLES IN PROJECT LIMITS. PROPOSED POLES SHALL BE MANUFACTURED BY P&K POLE PRODUCTS INC., TYPE RTA8M35AAT15V, AND TYPE RTA0X50EAT15V WITH ONE 15 FOOT MAST ARM, TYPE RTA8M35AAT25V, AND TYPE RTA0X50EAT25V WITH TWO 15 FOOT MAST ARMS.
- CONDUCTORS SHALL BE SPLICED IN LIGHTING CONTROLLERS AND LIGHT POLE BASES ONLY. NO SPLICES SHALL BE LOCATED BELOW GRADE.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND PROPOSED DRAINAGE FACILITIES PROVIDED UNDER THIS CONTRACT ARE INDICATED BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN. THE CONTRACTOR SHALL CONFIRM UNDERGROUND UTILITY AND DRAINAGE LOCATIONS IN THE FIELD PRIOR TO EXCAVATING. THE CONTRACTOR SHALL RELOCATE UNDERGROUND CABLES AS REQUIRED TO AVOID UNDERGROUND UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL ADJUST THE POSITION OF TEMPORARY LIGHT POLES AND CONSTRUCT OFFSET LIGHT POLE FOUNDATIONS AS REQUIRED TO AVOID UNDERGROUND UTILITIES AND STRUCTURES. DEVIATIONS FROM THE CONTRACT PLANS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION AND ACCURATELY REPORTED ON THE RECORD DRAWINGS.
- ELECTRICAL WORK SHALL BE COORDINATED WITH ALL OF THE WORK REQUIRED IN THIS CONTRACT. LACK OF COORDINATION WITH OTHER WORK INCLUDED IN THIS CONTRACT, WHETHER OR NOT SHOWN ON THE ELECTRICAL PLANS, SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION.

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3512	02-00177-00-WR	COOK	142	85
FED. ROAD DISTRICT		ILLINOIS	FED. AID PROJECT	
CONTRACT NUMBER 63514				

SUMMARY OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	240
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	950
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	4,050
81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	5,000
81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	14,500
81702400	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2	FOOT	200
81800190	AERIAL CABLE, 2-1/C NO. 2 WITH MESSENGER WIRE	FOOT	3,400
82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	15
82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	22
82500360	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 100AMP	EACH	1
83007600	LIGHT POLE, ALUMINUM, 35 FT. M.H., 15 FT. MAST ARM	EACH	11
83050440	LIGHT POLE, ALUMINUM, 35 FT. M.H., 2-15 FT. MAST ARMS	EACH	2
83050810	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM	EACH	18
83050910	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 2-15 FT. MAST ARMS	EACH	2
83057295	LIGHT POLE, WOOD, 50 FOOT, CLASS 4, WITH 15FT MAST ARM	EACH	12
83057355	LIGHT POLE, WOOD, 60 FOOT, CLASS 4, WITH 15FT MAST ARM	EACH	22
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	424
84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	34
84200500	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	20
84200804	REMOVAL OF POLE FOUNDATION	EACH	20
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1
X0324637	BASE COVER, LIGHT POLE	EACH	33
X8140105	HANDHOLE (SPECIAL)	EACH	12
X8210005	TEMPORARY LUMINAIRE, HIGH PRESSURE SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	12
X8210015	TEMPORARY LUMINAIRE, HIGH PRESSURE SODIUM VAPOR, 400 WATT	EACH	22
X8250215	PHOTOCELL CONTROL SYSTEM	EACH	1
X8360215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	15
X8950130	MODIFY EXISTING LIGHTING CONTROLLER	EACH	1
Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	37
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	5



David E. Mertz
 Stamp: 17 October 2012
 License Expires 30 November 2013



REVISIONS	
NAME	DATE
REVISED	11/13/2012

VILLAGE OF ARLINGTON HEIGHTS
GENERAL NOTES, LEGEND
 U.S. ROUTE 14
 DATE: 08/17/2012
 DESIGNED BY: EE
 TECHNICIAN: EE
 CHECKED BY: DEM