

LIGHTING GENERAL NOTES:

- THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST IDOT STANDARDS, NATIONAL ELECTRICAL CODE AS WELL AS THE NATIONAL ELECTRICAL SAFETY CODE.
- COORDINATE THE INSTALLATION OF ROADWAY LIGHTING WITH THE CONSTRUCTION STAGING.
- FOR POLE AND LUMINAIRE DETAILS, REFER TO ELECTRICAL PLANS AND SPECIFICATIONS.
- COORDINATE THE INSTALLATION OF ROADWAY LIGHTING AND UNDERGROUND WORK WITH THE OTHER TRADES.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLE FOUNDATIONS, CENTER LINE OF TRENCH AND PUSHES AND THE LIGHTING CONTROLLER FOR EXAMINATION AND CONFIRMATION WITH THE ENGINEER AT THE PRECONSTRUCTION INSPECTION. THE EXACT LOCATIONS OF ALL ITEMS SHALL BE CONFIRMED WITH THE ENGINEER PRIOR TO STARTING WORK.
- METAL LIGHT POLE FOUNDATIONS SHALL NOT BE INSTALLED UNTIL EMBANKMENT WIDENING HAS BEEN COMPLETED AND AS DIRECTED BY THE ENGINEER.
- NO SPLICES SHALL BE MADE IN CONDUIT, UNIT DUCT OR HANDHOLES. THESE SHALL BE MADE IN POLE BASES OR ABOVE GROUND JUNCTION BOXES IN AN APPROVED MANNER.
- 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 ELECTRICAL WORK." THE INSTALLATION OF THE TAPE SHALL BE INSPECTED BY THE ENGINEER PRIOR TO BACKFILLING OR DURING PLOWING OPERATIONS, AS APPLICABLE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY FOR THE 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 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.
- THE CONTRACTOR SHALL PROVIDE A 3/4" X 10' COPPER CLAD GROUND ROD AT EACH LIGHT POLE (REFER TO THE FOUNDATION DETAIL).
- THE UNIT DUCT AND CONDUIT SHALL BE INSTALLED MIN. 30 INCHES BELOW FINISHED GRADE (UNLESS DIRECTED OTHERWISE) COMPLETE WITH WARNING TAPE. CONTRACTOR SHALL HANDDIG TEST HOLES FOR EVERY 1000 FT. OF TRENCHING/PLOWING FOR ENGINEER'S APPROVAL OF THE INSTALLATION.
- IT IS CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION. CONTACT J.U.L.I.E. PRIOR TO THE START OF ANY EXCAVATION WORK.
- MATERIAL QUANTITIES ARE APPROXIMATIONS ONLY. IT IS CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL QUANTITIES PRIOR TO ORDERING MATERIAL.
- 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 THE WORK SCHEDULE.
- ALL PROPOSED LIGHT POLE FOUNDATIONS, LIGHT FIXTURES, UNIT DUCT, AND CONDUIT SHALL BE INSTALLED AS SHOWN ON THE PLANS. THE EXACT LOCATION IS TO BE CONFIRMED IN THE FIELD BY THE RESIDENT ENGINEER.
- 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.
- CONTRACTOR TO VERIFY FOUNDATION BOLT PATTERN PRIOR TO CONSTRUCTING FOUNDATIONS.
- THE CONTRACTOR SHALL INSTALL A NEW BASE COVER FOR EACH RELOCATED LIGHT POLE.
- CONTRACTOR'S STAGING AREA SHALL BE AS DIRECTED BY THE OWNER IN THE PRE-CONSTRUCTION MEETING.
- CIRCUIT NUMBERING AND DESIGNATIONS SHOWN ON THE PLANS ARE FROM EXISTING DRAWINGS. CONTRACTOR SHALL VERIFY CIRCUIT NUMBERING, CABLE ROUTING AND POWER SOURCES DURING CONSTRUCTION.
- LIGHTING CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE TRAFFIC SURVEILLANCE CONTRACTOR.
- LUMINAIRE SAFETY CABLE ASSEMBLY SHALL BE PLACED ON EACH RELOCATED LIGHTING UNIT UNDER IDOT JURISDICTION UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
- ALL LIGHTING UNITS ALONG I-57 ARE UNDER IDOT JURISDICTION AND SHALL FOLLOW IDOT STANDARDS, DETAILS, AND SPECIFICATIONS. ALL LIGHTING UNITS ALONG I-294 ARE UNDER TOLLWAY JURISDICTION AND SHALL FOLLOW TOLLWAY STANDARDS, SPECIFICATIONS, AND DETAILS AS SHOWN IN THE PLANS.
- ALL RELOCATED LIGHTING UNITS ALONG I-57 SHALL MAINTAIN A MINIMUM SETBACK OF 6.5 FT FROM THE EDGE OF THE PAVED SURFACE TO THE CENTER OF THE FOUNDATION.

SUMMARY OF ELECTRICAL/LIGHTING QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
ELECTRICAL/LIGHTING QUANTITIES ALONG I-57 (IDOT JURISDICTION)			
81900200	TRENCH BACKFILL FOR ELECTRICAL WORK	FOOT	3242
83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	7
84200806	REMOVAL OF POLE FOUNDATION, CONCRETE	EACH	11
84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	11
X0323574	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	26
X0324387	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	11
X8160370	UNIT DUCT, WITH 3-1/2 NO. 4 AND 1/2 NO.6 GROUND, 600V (EPR-TYPE RHW), 1 1/4" DIA., POLYETHYLENE	FOOT	3242
X8360360	LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8'	EACH	11
ELECTRICAL/LIGHTING QUANTITIES ALONG I-294 (TOLLWAY JURISDICTION)			
81200270	CONDUIT EMBEDDED IN STRUCTURE, 4" DIA., PVC	FOOT	284
81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	14
81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	1
81702110	ELECTRICAL CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/2 NO.10	FOOT	2360
81800400	AERIAL CABLE, 4-1/2 NO. 2 WITH MESSENGER WIRE	FOOT	499
82107300	UNDERPASS LUMINAIRE, 150 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	2
84200806	REMOVAL OF POLE FOUNDATION, CONCRETE	EACH	1
84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	1
	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	420
	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	20
	LIGHT POLE FOUNDATION (ROADWAY) MEDIAN, TYPE 1	EACH	1
	JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, 20" X 12" X 8"	EACH	2
	UNIT DUCT, 600V, 4-1/2 NO.2, 1/2 NO.8 GROUND, (XLP-TYPE USE) 2" DIA., POLYETHYLENE	FOOT	284
X0323651	REMOVE AND REINSTALL EXISTING LIGHTING UNIT	EACH	12

LEGEND:

IDOT ITEMS (I-57)

- EXISTING ROADWAY LIGHTING UNIT TO REMAIN (IDOT)
- EXISTING ROADWAY LIGHTING UNIT TO BE RELOCATED (IDOT) SHOWN ON EXISTING PLANS
- RELOCATED ROADWAY LIGHTING UNIT WITH LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 10" X 8" SHOWN ON PROPOSED PLANS
- PROPOSED UNIT DUCT IN TRENCH, SIZE AS NOTED
- RGS RIGID GALVANIZED STEEL
- ATS CONDUIT ATTACHED TO STRUCTURE
- EIS CONDUIT EMBEDDED IN STRUCTURE
- UD UNIT DUCT, 1 1/4"
- EOP EDGE OF TRAVELLED PAVEMENT
- O/S OFFSET
- SS STAINLESS STEEL
- (E) EXISTING

TOLLWAY ITEMS (I-294 & UNDERPASS)

- EXISTING TOLLWAY MEDIAN LIGHTING UNIT TO REMAIN
- EXISTING TOLLWAY MEDIAN LIGHTING UNIT TO BE RELOCATED SHOWN ON EXISTING PLANS
- EXISTING TOLLWAY MEDIAN LIGHTING UNIT TO BE RELOCATED SHOWN ON PROPOSED PLANS
- EXISTING CONDUIT EMBEDDED IN STRUCTURE
- PROPOSED CONDUIT OF THE TYPE AND SIZE SPECIFIED
- PROPOSED AERIAL CABLE WITH MESSINGER WIRE
- PROPOSED JUNCTION BOX
- PROPOSED 150W HPS UNDERPASS LUMINAIRE
- EXISTING 150W HPS UNDERPASS LUMINAIRE
- PROPOSED MEDIAN BARRIER WALL EMBEDDED JUNCTION BOX
- EXISTING MEDIAN BARRIER WALL EMBEDDED JUNCTION BOX

RELOCATED LIGHTING UNIT FOUNDATION ELEVATIONS

RELOCATED LIGHTING UNIT	ALIGNMENT	STATION	OFFSET	TOP OF FOUNDATION ELEVATION
KF5	I-57 CL	1247+92	90.0' RT	616.74
KE5	I-57 CL	1250+84	113.9' RT	626.45
KF6	I-57 CL	1253+77	135.6' RT	630.51
KE6	I-57 CL	1255+93	129.9' RT	632.15
JD6	I-57 CL	1259+96	129.5' RT	633.75
JC6	I-57 CL	1263+02	129.5' RT	631.02
JD5	I-57 CL	1265+87	119.5' RT	629.15
JC5	I-57 CL	1268+71	87.3' RT	626.93
KB6	I-57 CL	1256+84	74.9' LT	633.23
JB6	I-57 CL	1260+19	74.5' LT	633.00
JA6	I-57 CL	1263+01	74.5' LT	631.89
TOLLWAY	I-294 CL	404+82	0.00'	616.95

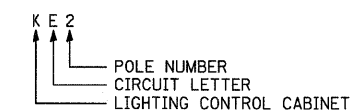
IDOT DISTRICT 1 STANDARDS

- BE-305: LIGHT POLE FOUNDATION, METAL (SHEET E10)
- BE-701: LUMINAIRE SAFETY CABLE ASSEMBLY (SHEET E11)
- BE-702: MISC. ELECTRICAL DETAILS - SHEET A (SHEET E12)

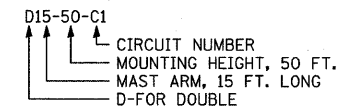
TOLLWAY STANDARDS

- STANDARD H2-00: LIGHT STANDARD POLE WIRING (SHEET E14)
- STANDARD H8-00: MEDIAN BARRIER LIGHT POLE FOUNDATION DETAILS - TYPE I CENTERED CASSION, 42" BARRIER (SHEET E15)

IDOT LIGHT POLE DESIGNATION:



TOLLWAY LIGHT POLE DESIGNATION:



SHEET E1

TYLIN INTERNATIONAL	USER NAME =	DESIGNED - JDF	REVISED - 4/29/2010	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-57 AT I-294 INTERCHANGE PROJECT		F.A.I. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =
	PLOT SCALE =	DRAWN - CAC	REVISED -		57	1414.2B	COOK	516	201		
	PLOT DATE =	CHECKED - DAJ	REVISED -		LIGHTING GENERAL NOTES, LEGEND, AND QUANTITIES		CONTRACT NO. 60J27				
				SCALE: NONE	SHEET NO. 1 OF 1 SHEET	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

6/29/2010 7:49:19 AM