

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				80% FED 20% LOCAL	
				SAFETY 0021 URBAN	0042 URBAN
X4240430	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, SPECIAL	SQ FT	22857	22857	
X4240440	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH, SPECIAL	SQ FT	350	350	
X4240460	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH, SPECIAL	SQ FT	9827	9827	
X4400060	BRICK SIDEWALK REMOVAL	SQ FT	27849	27849	
X6061005	CONCRETE CURB, TYPE B (SPECIAL)	FOOT	16	16	
* X8040102	ELECTRICAL SERVICE INSTALLATION, SPECIAL	EACH	2	2	
* X8140115	HANDHOLE TO BE ADJUSTED	EACH	2	2	
* X8140238	REBUILD EXISTING DOUBLE HANDHOLE	EACH	1	1	
* X8570100	DISCONNECT SWITCH	EACH	2	2	
* X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	10	10	
* X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	12	12	
* X8950075	REMOVE EXISTING LIGHTING CONTROLLER AND SALVAGE	EACH	1	1	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	452	452	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				80% FED 20% LOCAL	
				SAFETY 0021 URBAN	0042 URBAN
* Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12	12	
* Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	2	2	
Z0076600	TRAINEES	HOUR	1500		1500
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1500		1500
* XX009582	SHRUB, SPIREA JAPONICA TRACY (DOUBLE PLAY BIG BANG JAPANESE SPIREA). 24" TALL, CONTAINER GROWN	EACH	6	6	

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\* SPECIALTY ITEMS

	USER NAME = mmllwskl	DESIGNED - WLB	REVISED -  6/2/2023
		DRAWN - WLB	REVISED -
	PLOT SCALE = 40,0000' / In.	CHECKED - BPT	REVISED -
	PLOT DATE = 6/1/2023	DATE - 01/16/23	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SUMMARY OF QUANTITIES CICERO AVE - IL ROUTE 5083</b>			
SCALE: N.T.S.	SHEET 4 OF 4 SHEETS	STA. 100+00.00 TO STA. 182+31.65	

F.A.P. RTE. 350	SECTION 14-00033-00-SP	COUNTY COOK	TOTAL SHEETS 147	SHEET NO. 6
			CONTRACT NO. 61H30	
ILLINOIS FED. AID PROJECT				

**LIGHTING LEGEND**

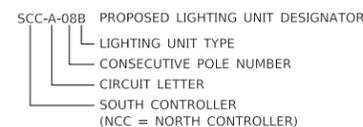
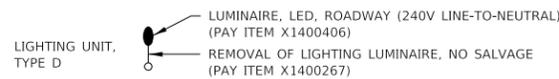
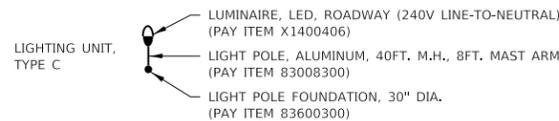
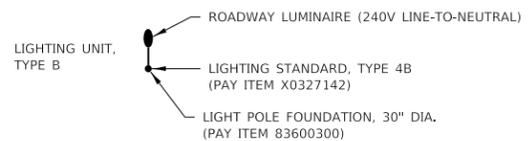
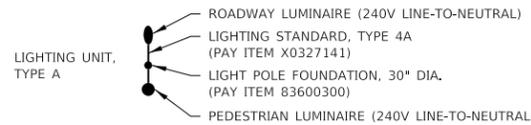
**REMOVALS**

- REMOVAL OF LIGHTING UNIT, NO SALVAGE (PAY ITEM 84200500) REMOVAL OF POLE FOUNDATION (PAY ITEM 84200814)
- REMOVE EXISTING HANDHOLE (PAY ITEM 89502380)
- REMOVAL OF LIGHTING CONTROLLER SEE PLANS FOR PAY ITEM #. REMOVAL OF LIGHTING CONTROLLER FOUNDATION (PAY ITEM 84500130)

- LIGHT POLE (HH = HANDHOLE, C = CONTROLLER)
- EX-PE-8 LIGHTING REMOVAL DESIGNATOR
- CONSECUTIVE POLE NUMBER
- LOCATED ON EAST SIDE (W = WEST)
- EXISTING

**PLAN SYMBOLS**

- EXISTING LIGHTING CONDUIT WITH CONDUCTORS
- UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA. (CNC) (PAY ITEM 81028750)
- UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA. (PAY ITEM 81028210)

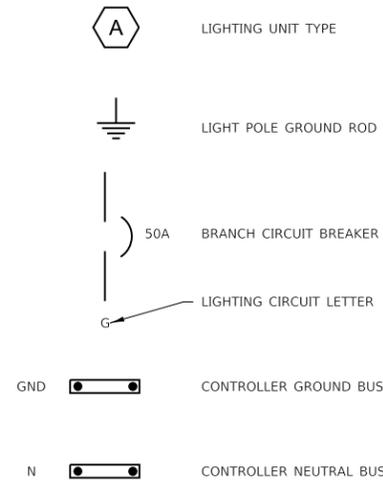


LIGHTING SUMMARY OF QUANTITIES			
PAY CODE	DESCRIPTION	UNIT	TOTAL QUANTITY
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2-1/2" DIA	FOOT	36
81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA	FOOT	17,024
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	14
81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	70,455
81702155	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 1	FOOT	198
82500360	LIGHTING CONTROLLER, BASE MOUNTED, 480 VOLT, 100 AMP	EACH	2
83008300	LIGHT POLE, ALUMINUM, 40 FT. M.H., 8 FT. MAST ARM	EACH	5
83600300	LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	1,080
84200500	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	75
84200804	REMOVAL OF POLE FOUNDATION	EACH	75
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	2
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	67,354
89502380	REMOVE EXISTING HANDHOLE	EACH	27
X0327141	LIGHTING STANDARD, TYPE 4A	EACH	84
X0327142	LIGHTING STANDARD, TYPE 4B	EACH	31
X1400238	LUMINAIRE, LED, SPECIAL	EACH	17
X1400267	REMOVAL OF LIGHTING LUMINAIRE, NO SALVAGE	EACH	12
X8040102	ELECTRIC SERVICE INSTALLATION, SPECIAL	EACH	2
X8570100	DISCONNECT SWITCH	EACH	2
X8950075	REMOVE EXISTING LIGHTING CONTROLLER AND SALVAGE	EACH	1
Z0033028	MAINTENANCE OF LIGHTING SYSTEMS	CAL. MO	12

**INDEX OF SHEETS**

61	LIGHTING LEGEND, STANDARDS, GENERAL NOTES, SOQ, INDEX
62-69	LIGHTING SCHEDULE OF QUANTITIES
70-76	LIGHTING REMOVAL PLANS
77-83	LIGHTING PROPOSED PLANS
84-88	LIGHTING INTERSECTION DETAILS
89-90	LIGHTING CONTROLLER SITE PLANS
91-92	LIGHTING CIRCUIT DIAGRAMS
93-94	LIGHTING ASSEMBLY DETAILS
95	LIGHTING CRITERIA AND RESULTS

**CIRCUIT SYMBOLS**



**GENERAL NOTES**

- WHEREVER THE TERM "STANDARD SPECIFICATIONS" IS USED, IT SHALL MEAN "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2022 EDITION BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION." ELECTRICAL REQUIREMENTS SHALL BE ACCORDING TO STANDARD SPECIFICATION DIVISION 800 "ELECTRICAL."
- STANDARDS OF INSTALLATION SHALL BE ACCORDING TO STANDARD SPECIFICATIONS ARTICLE 801.02. PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT TO FURNISH AND INSTALL THE ELECTRICAL WORK AS SHOWN ON THE PLANS, AS DETAILED IN THE STANDARD SPECIFICATIONS, AS REQUIRED BY THE NATIONAL ELECTRICAL CODE (NEC) AND AS REQUIRED FOR SPECIFIED OPERATION. ALL MATERIALS AND EQUIPMENT PROVIDED, WHERE APPLICABLE, SHALL HAVE A UL OR FM "LISTING MARK" AFFIXED TO THEM OR THEIR PACKING CONTAINERS AND THEY SHALL MEET ALL UL OR FM AND NEC STANDARDS FOR THEIR INDICATED USE. CONTRACTOR SHALL EMPLOY ONLY EXPERIENCED ELECTRICIANS THAT ARE FAMILIAR WITH THE TYPE OF WORK ENCOUNTERED ON THE PROJECT. A DULY LICENSED ELECTRICIAN SHALL SUPERVISE ALL WORK.
- UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE FROM UTILITY OWNER RECORDS AND MAY OR MAY NOT BE ACCURATE OR COMPLETE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION AND SHALL PROTECT ALL UTILITY FACILITIES FROM DAMAGE AND DISRUPTION. PHYSICALLY LOCATE ALL UTILITIES IN THE AFFECTED AREA, REGARDLESS OF THE OWNERSHIP OF THE UTILITY. JULIE LOCATING ALONE IS NOT SUFFICIENT. METHODS THE CONTRACTOR SHALL USE INCLUDE HAND DIGGING, VACUUM POTHOLING, PROBING, ELECTRONIC LOCATING USING CONTRACTOR'S OWN EQUIPMENT, VISUAL SURVEY OF NEARBY FACILITIES (MANHOLES, INLETS, STREET BOXES, HYDRANTS AND THE LIKE), AGENCY SEWER MAPS. IN SHORT: ANY METHOD DEEMED BY THE CONTRACTOR TO BE SUFFICIENT TO PREVENT ANY DAMAGE OR DISRUPTION TO EXISTING UTILITIES. FIELD LOCATING OF UTILITIES SHALL BE INCLUDED WITH THE ASSOCIATED PAY ITEM AND NOT PAID FOR SEPARATELY. REPAIR AND RESTORE ANY UTILITIES DAMAGED OR DISRUPTED DURING CONSTRUCTION OPERATIONS TO THE SATISFACTION OF THE UTILITY OWNER AT CONTRACTOR'S OWN EXPENSE.
- PROVIDE REPAIRS TO ANY PUBLIC OR PRIVATE PROPERTY, INCLUDING UTILITIES WHICH ARE DAMAGED OR DISTURBED BY CONSTRUCTION OPERATIONS. REPAIRS SHALL BE PROVIDED AT CONTRACTOR'S OWN EXPENSE. WHERE UTILITY LINES, UNDERGROUND OBSTRUCTIONS OR PIPING MAY BE UNCOVERED BY CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL NOTIFY THE OWNER OF THE UTILITY AND TAKE ALL NECESSARY MEASURES TO PREVENT INTERRUPTION OF SERVICES CAUSED BY CONTRACTOR'S OPERATIONS AND PROVIDE IMMEDIATE REPAIR AND/OR RESTORATION AT NO EXPENSE TO THE OWNER OF THE UTILITY.
- DETERMINING LIGHT POLE LOCATIONS: INSTALL LIGHT POLES IN A STRAIGHT LINE WITH THE SAME OFFSET FOR THE ENTIRE LENGTH OF THE BLOCK. TO ACHIEVE THIS CONSISTENT OFFSET THE CONTRACTOR SHALL LOCATE ALL UTILITIES ALONG PROJECT, ACCORDING TO GENERAL NOTE 3. AFTER UTILITIES HAVE BEEN LOCATED, DETERMINE POSSIBLE LIGHT POLE OFFSETS SO THAT LIGHT POLES WILL BE IN A STRAIGHT LINE AND PLACED AS CLOSE TO THE PLAN LOCATION OFFSET AS POSSIBLE. CONFIRM LIGHT POLE PLACEMENTS WITH THE VILLAGE IN THE FIELD PRIOR TO INSTALLATION. DETERMINING LIGHT POLE LOCATIONS SHALL BE INCLUDED WITH THE ASSOCIATED PAY ITEM.
- DETERMINING HANDHOLE LOCATIONS: THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES AT HANDHOLE LOCATIONS, ACCORDING TO GENERAL NOTE 3. AFTER UTILITIES HAVE BEEN LOCATED, DETERMINE POSSIBLE LOCATIONS THAT WILL PLACE HANDHOLE AS CLOSE TO THE PLAN LOCATION AS POSSIBLE. CONFIRM HANDHOLE PLACEMENTS WITH THE VILLAGE IN THE FIELD PRIOR TO INSTALLATION. HANDHOLES SHALL BE INSTALLED IN UNPAVED (GRASS) AREAS UNLESS THERE IS NO OTHER OPTION. IN SUCH CASES, UPON APPROVAL BY THE VILLAGE, INSTALL HANDHOLE IN THE SIDEWALK. SIDEWALK REMOVAL AND REPLACEMENT SHALL BE INCLUDED WITH THE ASSOCIATED PAY ITEM UNIT COST. DETERMINING HANDHOLE LOCATIONS SHALL BE INCLUDED WITH THE ASSOCIATED PAY ITEM.
- DETERMINING UNDERGROUND RACEWAY LOCATIONS: RACEWAY LOCATIONS SHOWN IN THE PLANS ARE DIAGRAMMATIC IN NATURE AND SHALL BE VARIED AS NEEDED TO SUIT FIELD CONDITIONS ENCOUNTERED. LOCATE ALL UNDERGROUND UTILITIES ACCORDING TO GENERAL NOTE 3 ALONG THE ROUTE OF THE UNDERGROUND RACEWAY PRIOR TO INSTALLATION. AFTER UTILITIES HAVE BEEN LOCATED, DETERMINE POSSIBLE ROUTES THAT WILL PLACE RACEWAYS AS CLOSE TO THE PLAN LOCATION AS POSSIBLE. CONFIRM RACEWAY ROUTES WITH THE VILLAGE IN THE FIELD PRIOR TO INSTALLATION. DETERMINING UNDERGROUND RACEWAY LOCATIONS SHALL BE INCLUDED WITH THE ASSOCIATED PAY ITEM.
- CONDUIT SHALL BE INSTALLED AT A MINIMUM DEPTH OF 30", USING BORE AND PULL METHOD (HORIZONTAL DIRECTIONAL DRILLING) ACCORDING TO STANDARD SPECIFICATION ARTICLE 810.04(C). COILABLE NONMETALLIC CONDUIT SHALL BE HDPE SCHEDULE 80 ACCORDING TO STANDARD SPECIFICATION 1088.01(C). EXCAVATIONS SHALL BE BACKFILLED ACCORDING TO THE STANDARD SPECIFICATIONS IN 6" LOOSE LIFTS AND EACH LIFT MECHANICALLY COMPACTED BY TAMPING WITH POWER TOOLS IN SUCH A MANNER AS NOT TO DISTURB OR DAMAGE THE CONDUIT. BACKFILL MATERIAL SHALL BE ACCORDING TO SECTION 208 TRENCH BACKFILL. BACKFILLING OF EXCAVATIONS SHALL BE INCLUDED WITH THE ASSOCIATED PAY ITEM AND NOT MEASURED SEPARATELY FOR PAYMENT.
- HANDHOLES SHALL BE PRE-CAST CONCRETE WITH CAST IRON COVERS AND FRAMES CAST INTO THE TOP OF THE BOX. PROVIDE LIDS WITH LEGEND "STREET LIGHTING-CAST-IN. BOX SHALL BE PORTLAND CEMENT CONCRETE ACCORDING TO STANDARD SPECIFICATION ARTICLE 1042.17 AND HIGHWAY STANDARD 814001-03. COVERS AND FRAMES SHALL BE ACCORDING TO STANDARD SPECIFICATION 1088.06.
- ALL UNDERGROUND CIRCUIT WIRING SHALL BE XLP-USE STRANDED COPPER ACCORDING TO STANDARD SPECIFICATION 1066.03. CABLE INSULATION SHALL BE SOLID COLOR-CODED RED, BLUE, WHITE OR GREEN ACCORDING TO USE. COLOR TAPE ON BLACK COLOR INSULATION IS NOT ALLOWED.
- CONDUCTORS AT ALL TERMINATIONS, IN LIGHT POLES AND HANDHOLES SHALL BE MARKED TO INDICATE SOURCE PANEL, CIRCUIT NUMBER AND BRANCH LETTER. WIRING MARKERS SHALL BE CLIP-ON STYLE ACCORDING TO STANDARD SPECIFICATION 1066.07 (B). BUNDLE CONDUCTORS OF THE SAME BRANCH WITH WIRE TIES IN ALL HANDHOLES.
- CONDUCTOR SPLICES SHALL BE COMPRESSION TYPE ACCORDING TO STANDARD SPECIFICATION 1066.06(C)(2) WITH WATERPROOF HEAT SHRINK COVER. SPLICES SHALL BE MADE WATERPROOF WITH HEAT SHRINK CAPPED SPLICE ACCORDING TO STANDARD SPECIFICATION 1066.06 (B).
- INSTALL POLE FOUNDATIONS AND LIGHT POLES PLUMB AND TRUE. HANDLE LIGHTING FIXTURES CAREFULLY TO PREVENT BREAKAGE, AND DAMAGE. DO NOT INSTALL DAMAGED LIGHTING FIXTURES. REPLACE AND RETURN DAMAGED UNITS TO EQUIPMENT MANUFACTURER.
- PROTECT LIGHTING ASSEMBLY FINISH DURING HANDLING, STORAGE AND INSTALLATION. POLE GRIPS, TRUCK ARMS, JAWS, TRAILERS AND ANY OTHER SURFACES THAT CONTACT POLES PRIOR TO OR DURING INSTALLATION SHALL BE FULLY AND THICKLY PADDED TO PREVENT DAMAGING POLE FINISH. FINISHES THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR TOUCHED UP, USING MATERIALS AND METHODS APPROVED BY THE LIGHTING ASSEMBLY MANUFACTURER.
- ABANDON EXISTING LIGHTING CIRCUITS OF THE LIGHT POLES THAT ARE INDICATED TO BE REMOVED. REMOVE CONDUCTORS COMPLETELY FROM THE EXISTING LIGHTING CONDUITS. REMOVED CONDUCTORS SHALL BECOME THE PROPERTY OF THE CONTRACTOR. ABANDON UNDERGROUND CONDUITS BY REMOVING TO A DEPTH OF 1-FOOT BELOW FINISHED GROUND LEVEL AND BACKFILL THE EXCAVATION. ABANDONED CONDUIT SHALL BE INCLUDED WITH THE REMOVAL OF ELECTRIC CABLE PAY ITEM AND NOT MEASURED SEPARATELY FOR PAYMENT. REMOVAL OF LIGHTING CIRCUIT CONDUCTOR SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR REMOVAL OF ELECTRIC CABLE FROM CONDUIT.
- SUBMIT SHOP DRAWINGS TO VILLAGE OF CRESTWOOD FOR REVIEW AND APPROVAL. SUBMIT SHOP DRAWINGS FOR THE FOLLOWING: LIGHTING STANDARDS; LUMINAIRE, LED, ROADWAY; LIGHTING CONTROLLER. THE VILLAGE OF CRESTWOOD CONSTRUCTION ENGINEERING CONSULTANT FOR PHASE III SERVICES SHALL REVIEW THE SHOP DRAWINGS, ANY CORRESPONDENCE RELATED TO LIGHTING SYSTEM SHOP DRAWING REVIEW SHALL BE COORDINATED WITH IDOT, THE VILLAGE, AND THE CONTRACTOR.

17. THE LIGHTING CONTROLLER NAMEPLATE CALLED FOR BY NOTE 16 OF STANDARD DRAWING BE-215, DISTRICT ONE DETAILS - LIGHTING CONTROLLER SINGLE DOOR, SHEET 101, IS NOT REQUIRED AND SHALL NOT BE PROVIDED.

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PLOT SCALE = 2,0000 ' / in.	DRAWN - DC	REVISED -
PLOT DATE = 6/2/2023	CHECKED - JDE	REVISED -
	DATE - 01/16/23	REVISED -

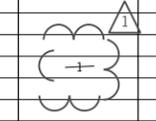
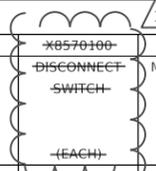
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING LEGEND, STANDARDS, GENERAL NOTES, SOQ, INDEX  
CICERO AVE - IL ROUTE 5083**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. 100+00.00 TO STA. 182+31.65

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	14-00033-00-5P	COOK	147	61
CONTRACT NO. 61H30				
ILLINOIS FED. AID PROJECT				

LOCATION				PROPOSED ELECTRICAL ITEMS										Z0033028
STRUCTURE NO.	STATION	OFFSET	SET BACK FACE OF CURB TO FDN CENTER	80400200	81400700	82500360	83008300	83600300	X0327141	X0327142	X1400238	X8040102	<del>X8570100</del>	Z0033028
				ELECTRIC UTILITY SERVICE CONNECTION (LUMP SUM)	HANDHOLE, PORTLAND CEMENT CONCRETE (EACH)	LIGHTING CONTROLLER BASE MOUNT 480V, 100A (EACH)	LIGHT POLE ALUMINUM 40' MH 8' MAST ARM (EACH)	LIGHT POLE FOUNDATION 30" DIA. (FOOT)	LIGHTING STANDARD TYPE 4A (EACH)	LIGHTING STANDARD TYPE 4B (EACH)	LUMINAIRE, LED, SPECIAL (EACH)	ELECTRIC SERVICE INSTALLATION, SPECIAL (EACH)	<del>DISCONNECT SWITCH (EACH)</del>	MAINTENANCE OF LIGHTING SYSTEMS (CAL MO)
SCC-B-14D	-	-										1		
HH-01	101+32.00	39.00 RT			1									
SCC-A-13A	101+40.00	39.00 RT	4.8					9	1					
SCC-B-12A	102+85.00	39.00 RT	4.8					9	1					
SCC-A-11A	104+35.00	39.00 RT	4.8					9	1					
SCC-B-10A	105+86.00	39.00 RT	4.8					9	1					
SCC-A-09A	107+35.00	39.00 RT	4.6					9	1					
SCC-B-08A	108+99.00	38.00 RT	3.5					9	1					
SCC-A-07A	110+27.00	38.00 RT	3.6					9	1					
SCC-B-06A	111+87.00	38.00 RT	3.6					9	1					
SCC-A-05A	113+37.00	38.00 RT	3.4					9	1					
SCC-B-04A	114+55.00	39.00 RT	4.5					9	1					
SCC-A-03A	115+08.00	39.00 RT	4.4					9	1					
SCC-B-02A	116+77.00	39.00 RT	4.7					9	1					
SCC-A-01A	118+08.00	39.00 RT	4.8					9	1					
SCC	118+83.45	44.66 RT		0.5		1						1		
HH-04	118+95.00	38.00 RT			1									
SCC-C-17D	-	-									1			
SCC-D-16D	100+52.33	47.93 LT									1			
HH-02	101+80.00	48.00 LT			1									
SCC-C-15B	101+91.00	48.00 LT	13.8					9		1				
SCC-D-14B	103+24.00	48.00 LT	13.0					9		1				
SCC-C-13B	104+57.00	48.00 LT	13.9					9		1				
SCC-D-12B	105+98.00	48.00 LT	13.8					9		1				
SCC-C-11B	107+23.00	48.00 LT	13.9					9		1				
SCC-D-10B	107+88.00	48.00 LT	14.1					9		1				
SCC-C-09B	109+14.00	48.00 LT	14.1					9		1				
SCC-D-08B	110+50.00	48.00 LT	14.0					9		1				
SCC-C-07B	111+80.00	48.00 LT	14.1					9		1				
SCC-D-06B	113+07.00	48.00 LT	14.2					9		1				
SCC-C-05B	113+87.00	48.00 LT	14.1					9		1				
SCC-D-04B	114+57.00	45.00 LT	11.1					9		1				
SCC-C-03B	115+77.00	48.00 LT	14.3					9		1				
SCC-D-02B	117+16.00	48.00 LT	14.4					9		1				
SCC-C-01B	118+17.00	48.00 LT	14.4					9		1				
HH-03	118+80.00	51.00 LT			1									
SCC-E-01B	119+38.00	51.00 LT	17.5					9		1				
SCC-F-02B	120+59.00	48.00 LT	14.4					9		1				
SCC-E-03D	121+60.43	83.22 LT									1			
HH-05	121+50.00	140.00 LT			1									
SCC-E-04D	121+20.52	299.27 LT									1			



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DRAWN - DC	CHECKED - JDE	REVISED -
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PLOT DATE = 6/1/2023		

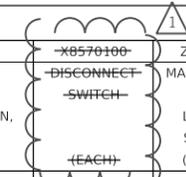
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**LIGHTING SCHEDULE OF QUANTITIES**  
**CICERO AVE - IL ROUTE 5083**

SCALE: N.T.S.    SHEET 5 OF 8 SHEETS    STA. 100+00.00 TO STA. 182+31.65

F.A.P. RTE. 350	SECTION 14-00033-00-5P	COUNTY COOK	TOTAL SHEETS 147	SHEET NO. 66
CONTRACT NO. 61H30				
ILLINOIS FED. AID PROJECT				

LOCATION				PROPOSED ELECTRICAL ITEMS										
STRUCTURE NO.	STATION	OFFSET	SET BACK FACE OF CURB TO FDN CENTER	80400200	81400700	82500360	83008300	83600300	X0327141	X0327142	X1400238	X8040102	<del>X8570100</del>	Z0033028
				ELECTRIC UTILITY SERVICE CONNECTION (LUMP SUM)	HANDHOLE, PORTLAND CEMENT CONCRETE (EACH)	LIGHTING CONTROLLER BASE MOUNT 480V, 100A (EACH)	LIGHT POLE ALUMINUM 40' MH 8' MAST ARM (EACH)	LIGHT POLE FOUNDATION 30" DIA. (FOOT)	LIGHTING STANDARD TYPE 4A (EACH)	LIGHTING STANDARD TYPE 4B (EACH)	LUMINAIRE, LED, SPECIAL (EACH)	ELECTRIC SERVICE INSTALLATION, SPECIAL (EACH)	<del>DISCONNECT SWITCH</del> (EACH)	MAINTENANCE OF LIGHTING SYSTEMS (CAL MO)
SCC-E-05D	122+23.16	182.66 LT										1		
SCC-F-06D	122+59.66	47.47 LT									1			
SCC-F-07B	124+38.00	48.00 LT	14.0					9		1				
SCC-F-08B	125+88.00	48.00 LT	13.9					9		1				
HH-09	126+50.00	48.00 LT			1									
SCC-E-09B	127+33.00	48.00 LT	13.7					9		1				
SCC-F-10B	128+78.00	48.00 LT	13.7					9		1				
SCC-E-11B	129+66.00	48.00 LT	13.7					9		1				
SCC-F-12B	130+93.00	48.00 LT	13.6					9		1				
SCC-E-13B	132+20.00	48.00 LT	14.0					9		1				
SCC-F-14B	132+83.00	49.00 LT	14.6					9		1				
SCC-E-15B	134+21.00	49.00 LT	15.0					9		1				
SCC-F-16B	135+59.00	48.50 LT	14.5					9		1				
SCC-E-17B	136+53.00	48.00 LT	14.2					9		1				
SCC-F-18B	137+49.00	48.00 LT	14.3					9		1				
SCC-E-19B	138+93.00	48.00 LT	14.4					9		1				
SCC-F-20B	140+10.00	48.00 LT	14.1					9		1				
SCC-E-21C	140+69.00	104.00 LT	6.2								1			
SCC-G-01A	119+49.00	38.00 RT	3.5				1	9	1					
SCC-H-02A	120+77.00	39.00 RT	4.5					9	1					
SCC-G-03D	121+59.57	40.35 RT									1			
HH-06	121+84.00	60.00 RT			1									
SCC-G-04D	122+04.79	144.24 RT									1			
SCC-H-05C	122+85.00	90.00 RT	4.7				1	9			1			
SCC-H-06D	123+08.51	200.38 RT									1			
HH-07	123+20.00	38.00 RT			1									
SCC-H-07A	123+27.00	38.00 RT	3.0					9	1					
SCC-G-08A	124+67.00	39.00 RT	4.3					9	1					
SCC-H-09A	126+04.00	39.00 RT	4.2					9	1					
HH-08	126+50.00	39.00 RT			1									
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SCC-H-11A	128+81.00	39.00 RT	4.1					9	1					
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SCC-H-15A	134+26.00	39.00 RT	4.4					9	1					
SCC-G-16A	135+52.00	39.00 RT	4.3					9	1					
SCC-H-17A	136+31.00	39.00 RT	4.3					9	1					
SCC-G-18A	137+45.00	39.00 RT	4.4					9	1					
SCC-H-19A	138+77.00	39.00 RT	4.4					9	1					
SCC-G-20A	140+52.00	39.00 RT	4.5					9	1					



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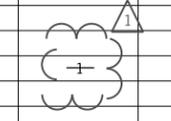
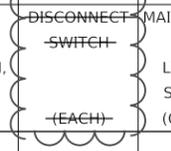
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**LIGHTING SCHEDULE OF QUANTITIES**  
**CICERO AVE - IL ROUTE 5083**

SCALE: N.T.S. SHEET 6 OF 8 SHEETS STA. 100+00.00 TO STA. 182+31.65

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	14-00033-00-5P	COOK	147	67
CONTRACT NO. 61H30				
ILLINOIS FED. AID PROJECT				

PROPOSED ELECTRICAL ITEMS														
LOCATION				80400200	81400700	82500360	83008300	83600300	X0327141	X0327142	X1400238	X8040102	X8570100	Z0033028
STRUCTURE NO.	STATION	OFFSET	SET BACK FACE OF CURB TO FDN CENTER	ELECTRIC UTILITY SERVICE CONNECTION (LUMP SUM)	HANDHOLE, PORTLAND CEMENT CONCRETE (EACH)	LIGHTING CONTROLLER BASE MOUNT 480V, 100A (EACH)	LIGHT POLE ALUMINUM 40' MH 8' MAST ARM (EACH)	LIGHT POLE FOUNDATION 30" DIA. (FOOT)	LIGHTING STANDARD TYPE 4A (EACH)	LIGHTING STANDARD TYPE 4B (EACH)	LUMINAIRE, LED, SPECIAL (EACH)	ELECTRIC SERVICE INSTALLATION, SPECIAL (EACH)	DISCONNECT SWITCH (EACH)	MAINTENANCE OF LIGHTING SYSTEMS (CAL MO)
NCC-A-17C	141+29.00	65.00 RT	5.6				1	9			1			
NCC-B-16A	142+06.00	39.00 RT	4.3					9	1					
NCC-A-15A	143+16.00	39.00 RT	4.2					9	1					
NCC-B-14A	144+54.00	39.00 RT	4.3					9	1					
NCC-A-13A	145+62.00	39.00 RT	4.2					9	1					
NCC-B-12A	146+55.00	39.00 RT	4.2					9	1					
NCC-A-11A	147+90.00	39.00 RT	4.1					9	1					
NCC-B-10A	149+36.00	39.00 RT	4.2					9	1					
NCC-A-09A	150+58.00	39.00 RT	4.1					9	1					
NCC-B-08A	151+90.00	39.00 RT	4.4					9	1					
NCC-A-07A	153+30.00	39.00 RT	4.3					9	1					
HH-10	153+38.00	39.00 RT			1									
NCC-B-06D	153+79.73	77.93 RT									1			
NCC-A-05A	155+00.00	42.00 RT	7.2					9	1					
NCC-B-04A	156+17.00	41.00 RT	6.7					9	1					
NCC-A-03A	157+44.00	39.00 RT	4.6					9	1					
NCC-B-02A	158+71.00	39.00 RT	4.5					9	1					
NCC-A-01A	160+30.00	39.00 RT	4.3					9	1					
HH-13	161+10.00	83.00 RT			1									
NCC	161+10.75	48.77 RT		0.5		1						1		
NCC-C-20A	141+52.00	38.00 LT	4.2					9	1					
NCC-D-19A	142+67.00	38.00 LT	4.3					9	1					
NCC-C-18A	144+09.00	38.00 LT	4.3					9	1					
NCC-D-17A	145+32.00	38.00 LT	4.3					9	1					
NCC-C-16A	146+11.00	38.00 LT	4.4					9	1					
NCC-D-15A	147+46.00	38.00 LT	4.5					9	1					
NCC-C-14A	148+64.00	38.00 LT	4.5					9	1					
NCC-D-13A	149+81.00	38.00 LT	4.4					9	1					
NCC-C-12A	150+83.00	38.00 LT	4.4					9	1					
NCC-D-11A	152+17.00	38.00 LT	4.3					9	1					
NCC-C-10A	153+30.00	38.00 LT	4.2					9	1					
NCC-D-09C	153+80.00	67.00 LT	4.0				1	9			1			
HH-11	153+80.00	85.00 LT			1									
NCC-C-08E	153+81.10	134.94 LT												
NCC-C-07E	153+83.61	399.06 LT												
NCC-D-06E	154+66.37	254.67 LT												



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PLOT DATE = 6/1/2023	DATE - 01/16/23	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**LIGHTING SCHEDULE OF QUANTITIES**  
**CICERO AVE - IL ROUTE 5083**

SCALE: N.T.S.    SHEET 7 OF 8 SHEETS    STA. 100+00.00 TO STA. 182+31.65

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	14-00033-00-5P	COOK	147	68
CONTRACT NO. 61H30			ILLINOIS FED. AID PROJECT	





**NOTES:**

1. LIGHTING CONTROLLER INSTALLATION SHALL BE ACCORDING TO DISTRICT 1 STANDARD BE-215.
2. ~~PROVIDE SERVICE DISCONNECT SWITCH WITH FUSE AND PADLOCK ACCORDING TO STANDARD SPECIFICATIONS 1086.01 (a)(3). DISCONNECT SWITCH SHALL BE UL LISTED SERVICE ENTRANCE RATED.~~
3. PROVIDE ELECTRIC SERVICE INSTALLATION ACCORDING TO POWER CO. REQUIREMENTS AND DISTRICT 1 STANDARD BE-220. ALL WORK SHALL BE INCLUDED IN THE ELECTRIC SERVICE INSTALLATION, SPECIAL PAY ITEM.
4. ELECTRIC SERVICE CONDUCTOR SHALL BE ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 1 (PAY ITEM 81702155).
5. UNDERGROUND ELECTRIC SERVICE CONDUIT SHALL BE UNDERGROUND CONDUIT, GALVANIZED STEEL, 2-1/2" DIA. (PAY ITEM 81028210).
6. ELECTRIC SERVICE SHALL BE 100A, 240/480V, SINGLE-PHASE, 3-WIRE, 60HZ.

CICERO AVENUE

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NOTE IS INTENTIONALLY BLANK

REMOVE EXISTING HANDHOLE. SEE REMOVAL SHEETS

REMOVAL OF CONTROLLER, EXISTING SERVICE CONDUIT AND CABLES SHALL BE INCLUDED IN THE REMOVAL OF LIGHTING CONTROLLER PAY ITEM (84500110).

EXISTING ELECTRIC SERVICE TRANSFORMER POLE REMAINS

PROVIDE 3 #1, 2 1/2" C SERVICE CONDUIT AND CABLES. SEE NOTE 3.

POWER CO. METER ON SIDE OF CABINET

NCC-G-01A

HH-13

CIRCUITS A - H  
12 - 1/C #6, 2 #6G,  
4" PVC

CABINET DOOR SIDE

PROPOSED NORTH CICERO LIGHTING CONTROLLER - LIGHTING CONTROLLER, BASE MOUNTED, 480 VOLT, 100 AMP (PAY ITEM 82500360)

DISCONNECT SWITCH (PAY ITEM X8570100)

EX ROW

SIDE BACK OF ENCLOSURE

METER SOCKET. SEE NOTE 2

METER MOUNTING HEIGHT PER COMED REQUIREMENTS

SERVICE DISCONNECT SWITCH. SEE NOTE 3

1-1/2" STEEL CONDUIT NIPPLE TO INSIDE CONTROLLER

1-1/2" STEEL CONDUIT

CONDUIT FITTING AND ENTRANCE INTO ENCLOSURE

FINISHED GRADE

#6 BARE COPPER IN 3/4" SCHEDULE 80 PVC CONDUIT. BOND TO CONTROLLER GROUND ROD. METER GROUNDING SHALL COMPLY WITH POWER CO. REQUIREMENTS

ELECTRIC SERVICE CONDUIT TO UTILITY TRANSFORMER POLE. SEE SITE PLAN

SERVICE GROUND ROD

**NORTH LIGHTING CONTROLLER CABINET REAR VIEW**

**NOTES:**

1. INSTALLATION SHALL COMPLY WITH DISTRICT 1 STANDARD BE-215.
2. METER ENCLOSURE AND SOCKET SHALL BE UL LISTED AND COMPLY WITH THE REQUIREMENTS OF THE POWER COMPANY (COMED).
3. ~~PROVIDE HEAVY DUTY/UL SERVICE ENTRANCE RATED, NEMA 4X STAINLESS STEEL DISCONNECT SWITCH, 600 VAC, 3-POLE, 4 WIRE, 100A FUSED (ONE SWITCH POLE NOT USED). PROVIDE 100A TIME-DELAY FUSES, CLASS RK1. PROVIDE EXTERNAL OPERATING HANDLE THAT IS PAD-LOCKABLE IN THE OPEN AND CLOSED POSITION.~~

**NORTH LIGHTING CONTROLLER ONE-LINE DIAGRAM**

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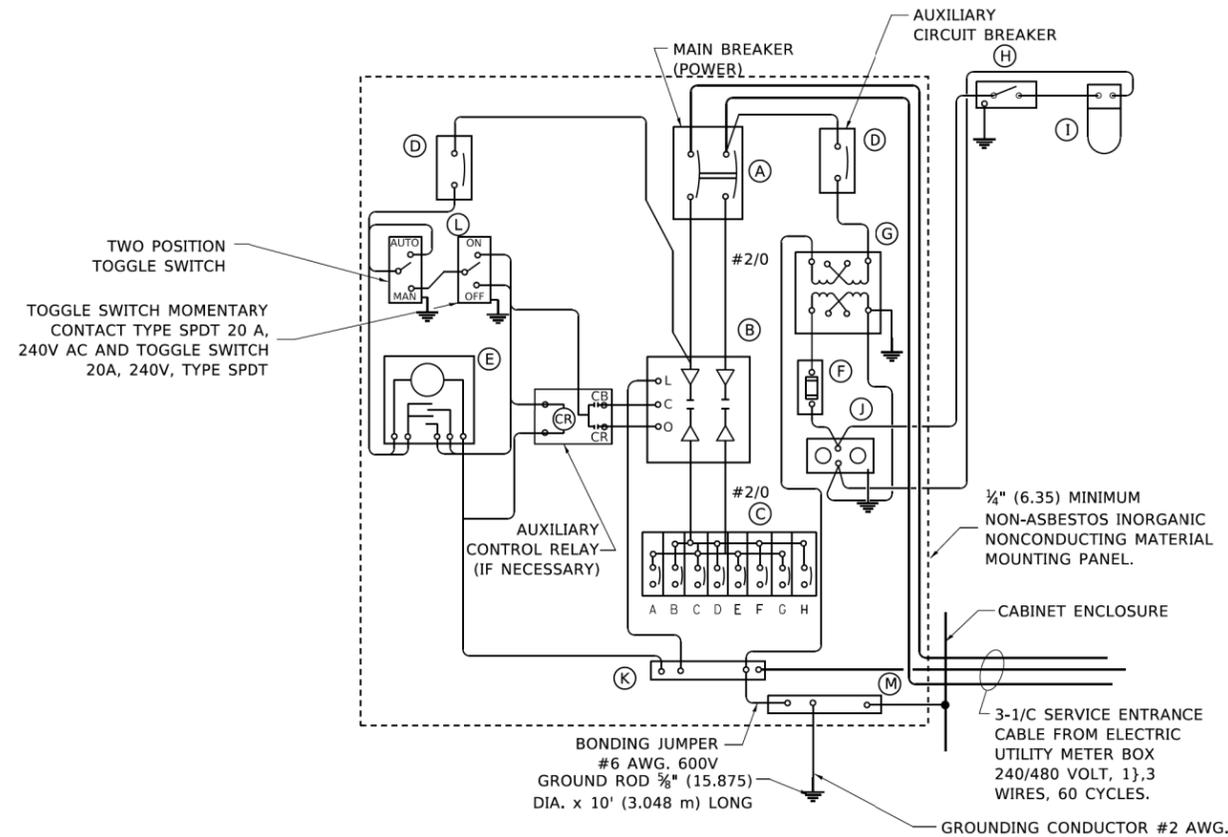


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PLOT DATE = 6/1/2023	CHECKED - JDE	REVISED -
	DATE - 01/16/23	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

<b>NORTH CONTROLLER SITE PLAN</b>	
<b>CICERO AVE - IL ROUTE 5083</b>	
SCALE: N.T.S	SHEET 2 OF 2 SHEETS
STA. 100+00.00	TO STA. 182+31.65

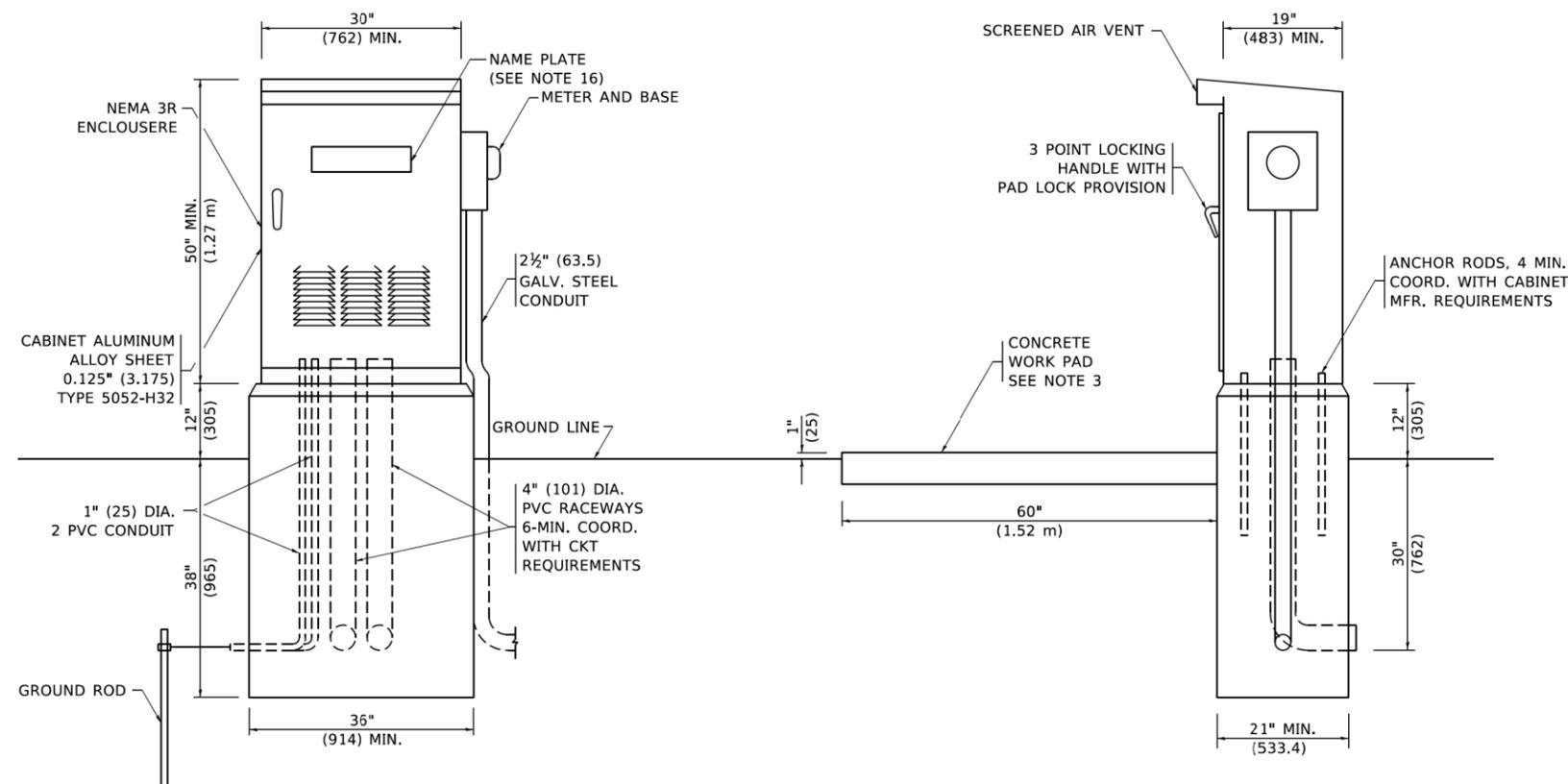
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	14-00033-00-5P	COOK	147	90
CONTRACT NO. 61H30				
ILLINOIS FED. AID PROJECT				



**PANEL WIRING DIAGRAM**

**PANEL EQUIPMENT**

BILL OF MATERIAL		
ITEM	QUANTITY	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 100 AMP. FRAME, 100 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 480 VOLT.
B	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., 600 VOLTS CONTROL CIRCUIT 240 VOLT.
C	8	CIRCUIT BREAKERS, 1 POLE, 100AMP. FRAME, 50 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-10,000 AMP. AT 240 V.
D	2	CONTROL CIRCUIT-CIRCUIT BREAKER. 1 POLE, 240 V., 100 AMP. FRAME, 15 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-5000 AMP. AT 240 V.
E	1	ASTRONOMIC MICROPROCESSOR-BASED 2-CHANNEL CONTROLLER (TIME SWITCH).
F	1	20 AMP, 120 VOLT FUSE.
G	1	1.5 KVA, SINGLE PHASE, ENCAPSULATED TRANSFORMER 240 X 480 / 120 X 240 VOLT, 60 Hz.
H	1	SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN.
I	1	INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP.
J	1	20 AMP, 120 VOLT, DUPLEX RECEPTACLE, GFCI.
K	1	COPPER GROUND BUS 1#4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
L	1	TOGGLE SWITCHES MOUNTED IN 4" (101.6) X 4" (101.6 mm) BOX.
M	1	COPPER GROUND BUS 1#4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS.



**NOTES**

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- FOUNDATION SIZE SHALL BE COORDINATED WITH CABINET SIZE AND MFR.
- IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" (50.8 mm) TOP SOIL, LEVEL THE AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 36" (914.4 mm) X 60" (18.288 m) X 4" (101 mm) MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
- DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
- DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
- DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 1#4" (6.35 mm) DIA. STAINLESS STEEL HINGE PIN.
- ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
- CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
- METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
- CABINETS SHALL BE PRIMED AND PAINTED IN A BLACK SEMI-GLOSS FINISH.
- THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.  
R = RED      BL = BLUE = WHITE  
B = BLACK    Y = YELLOW    G = GREEN
- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- 12" (304.8) X 16" (406.4 mm) STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.

SEE SHEET 61, NOTE 17

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 DATE -

REVISED - 08-20-04  
 REVISED - 6/2/2023  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE DETAILS - LIGHTING CONTROLLER  
 SINGLE DOOR**

SCALE: N.T.S. SHEET 4 OF 19 SHEETS STA. 100+00.00 TO STA. 182+31.65

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
350	14-00033-00-5P	COOK	147	101
BE-215		CONTRACT NO. 61H30		
ILLINOIS FED. AID PROJECT				

BE-215