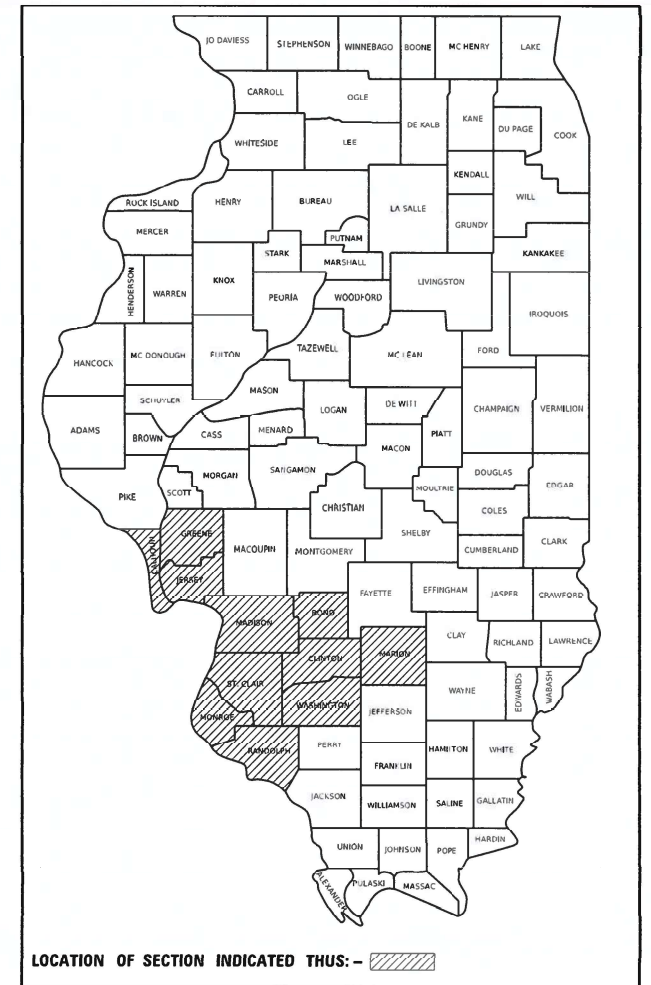


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	DIST 8 L TS 2023-2	VARIOUS	11	1
		ILLINOIS	CONTRACT NO. 76R88	

D-98-010-23



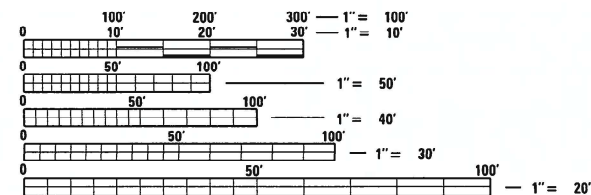
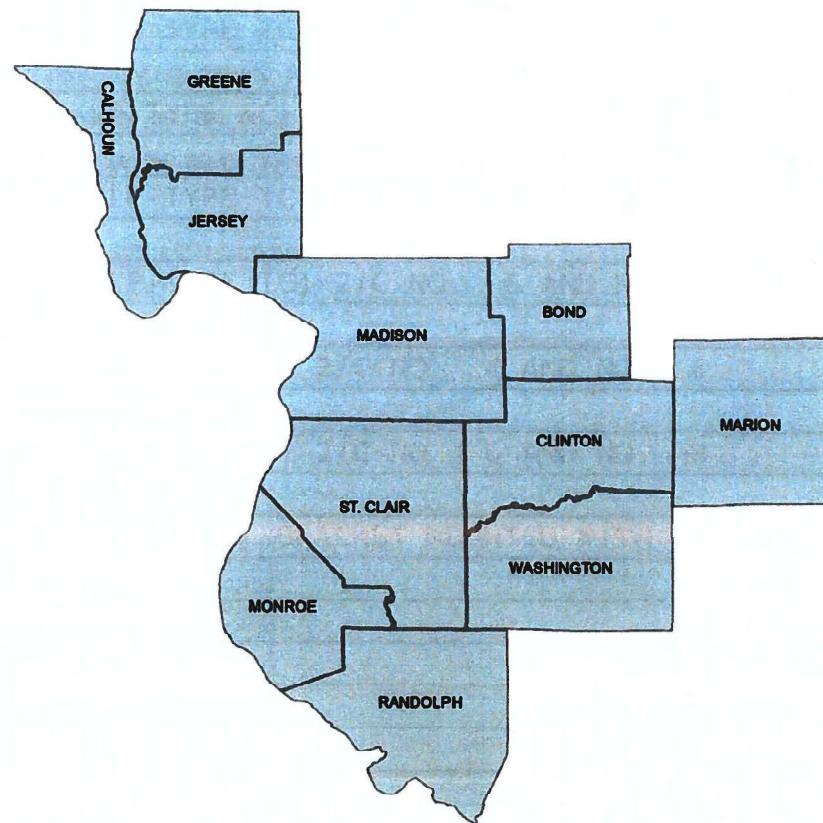
INDEX OF SHEETS:

1. COVER SHEET
2. HIGHWAY STANDARDS AND GENERAL NOTES
3. - 10. SUMMARY OF QUANTITIES
11. LUMINAIRE PERFORMANCE TABLES

PROPOSED
HIGHWAY PLANS

VARIOUS ROUTES
SECTION DIST 8 L TS 2023-2
HIGHWAY LIGHTING, TRAFFIC SIGNAL
REPAIR & MAINTENANCE
VARIOUS COUNTIES

C-98-051-23



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: CHERYL KEPLAR
PROJECT MANAGER: MICHAEL PRESTON

CONTRACT NO. 76R88

NOTE: WORK CAN BE LOCATED WITHIN ANY OF THE ABOVE NOTED COUNTIES WITHIN DISTRICT & REGION 5

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Oct. 13, 2022

[Signature]
REGIONAL ENGINEER

February 3, 2023

[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

February 3, 2023

[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

HIGHWAY STANDARDS			
701001-02	701400-11	701456-05	880001-01
701006-05	701401-13	701601-09	880006-01
701101-05	701406-13	701606-10	886001-01
701106-02	701421-08	701701-10	886006-01
701201-05	701422-10	701901-08	
701206-05	701446-11	821100-02	
701301-04	701451-05	830001-03	
000001-08	001006	876001-04	

COMMITMENTS
NONE

1. THE LOCATIONS OF THE REPAIR AREAS SHALL BE DETERMINED BY THE ENGINEER/DEPARTMENT.
2. NO MATERIAL SHALL BE LEFT ON OR NEAR THE ROADWAY DURING NON-WORKING HOURS.
3. ANY NECESSARY TRAFFIC CONTROL WILL BE PROVIDED BY THE CONTRACTOR APPROPRIATE STANDARDS ARE LISTED.
4. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. (PHONE 800 892-0123 OR 811) OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY.
5. A FLAGGER SHALL BE REQUIRED AT ALL TIMES WHEN WORKERS OR EQUIPMENT ARE ENCROACHING ON THE LANE OF TRAFFIC.
6. 45 AND 55 MPH SIGNS ARE INCLUDED IN ALL INTERSTATE LANE CLOSURES. IF THE LANE CLOSURE DURATION IS LESS THAN 4 HOURS, THE 45 AND 55 MPH SIGNS ARE NOT REQUIRED.
7. ANY WORK ORDER MAY BE CANCELED AT THE ENGINEER'S/DEPARTMENT'S DISCRETION.
8. NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED.

REV. - MS

MODEL: MODELNAME\$
FILE NAME: \$FILEL

USER NAME = \$USERS	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HIGHWAY STANDARDS AND GENERAL NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = \$SCALE\$	DRAWN - _____	REVISED - _____			VAR	DIST 8 L TS 2023-2	VARIOUS	11	2	
PLOT DATE = \$DATES	CHECKED - _____	REVISED - _____			CONTRACT NO. 76R88					
	DATE - _____	REVISED - _____			SCALE:	SHEET 01 OF 01 SHEETS	STA. ___+___ TO STA. ___+___	ILLINOIS FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				100% STATE
				TRAFFIC SIGNALS 0021 URBAN
80300100	LOCATING UNDERGROUND CABLE	FOOT	200,000	200,000
82110005	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION E	EACH	5	5
82110007	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	20	20
82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	30	30
82110032	LUMINAIRE, LED, SIGN LIGHTING, OUTPUT DESIGNATION E	EACH	5	5
87000240	ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 2 AND NO. 4	FOOT	500	500
87000405	ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 2 AND NO. 4	FOOT	500	500
87000775	ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 4 AND NO. 6	FOOT	500	500
87000885	ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 6 AND NO. 8	FOOT	500	500
87005275	ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 4 AND NO. 6	FOOT	500	500
87005385	ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 6 AND NO. 8	FOOT	1000	1000
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	40	40
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	30	30

MODEL: MODELNAME\$
FILE NAME: \$FILE\$

USER NAME = \$USERS	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = \$SCALE\$	CHECKED - _____	REVISED - _____
PLOT DATE = \$DATES	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 01 OF 08 SHEETS STA. ___+___ TO STA. ___+___

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	DIST 8 L TS 2023-02	VARIOUS	11	3
			CONTRACT NO. 76R88	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				100% STATE
				TRAFFIC SIGNALS
				0021 URBAN
88800100	PEDESTRIAN PUSH-BUTTON	EACH	100	100
X0327495	JOURNEYMAN ELECTRICIAN	HOUR	3500	3500
X0327496	APPRENTICE ELECTRICIAN	HOUR	350	350
X0327497	PICK-UP TRUCK	HOUR	700	700
X0327500	ARROWBOARD (TRAILER MOUNTED)	HOUR	20	20
X0327501	ATTENUATOR, CRASH (TRUCK MOUNTED)	HOUR	500	500
X0327734	TRUCK CRANE	HOUR	500	500
X1400096	LED LAMP MODULE REPLACEMENT	EACH	300	300
X7010218	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	29	29
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	100	100
X8760201	PEDESTRIAN PUSH-BUTTON POST	EACH	50	50
X8860400	DETECTOR LOOP, SPECIAL	FOOT	5000	5000
XP000015	DIGGER DERRICK	HOUR	50	50
XP000028	LABOR	HOUR	100	100

MODEL: ANODEL\MAMES
FILE NAME: \$FILE\$

USER NAME = \$USERS	DESIGNED - _____	REVISED - _____
DRAWN - _____	CHECKED - _____	REVISED - _____
PLOT SCALE = \$SCALE\$	DATE - _____	REVISED - _____
PLOT DATE = \$DATES		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: _____ SHEET 02 OF 08 SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	DIST 8 L TS 2023-02	VARIOUS	11	4
CONTRACT NO. 76R88				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				100% STATE
				TRAFFIC SIGNALS
				0021 URBAN
XP000029	BUCKET TRUCK-VAN FOR TRAFFIC SIGNALS	HOUR	700	700
XP000030	BUCKET TRUCK FOR HIGHWAY LIGHTING	HOUR	700	700
XP000031	POLE TRAILER	HOUR	20	20
XP000032	FLATBED TRAILER	HOUR	100	100
XP000101	ATQ 5A FUSE 200	EACH	300	300
XP000102	FNQ 5A FUSE	EACH	300	300
XP000104	FNM 10A FUSE	EACH	10	10
XP000105	FRNR 60A FUSE	EACH	10	10
XP000106	BUCHANAN FUSEHOLDER KIT	EACH	50	50
XP000115	150W HPS LAMP	EACH	100	100
XP000116	250W HPS LAMP	EACH	100	100
XP000118	400W HPS LAMP	EACH	350	350
XP000119	150W 240-480V BALLAST KIT	EACH	25	25
XP000120	250W 240-480V BALLAST KIT	EACH	50	50

MODEL: 4100DELNAMRES
FILE NAME: 31E123

USER NAME = \$USERS	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = \$SCALES	CHECKED - _____	REVISED - _____
PLOT DATE = \$DATES	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES	
SCALE:	SHEET 03 OF 08 SHEETS STA. ___+___ TO STA. ___+___

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	DIST 8 LTS 2023-2	VARIOUS	11	5
			CONTRACT NO. 76R88	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				100% STATE
				TRAFFIC SIGNALS
				0021 URBAN
XP000122	400W 240-480V BALLAST KIT	EACH	150	150
XP000123	SD-100 BU STARTER	EACH	5	5
XP000124	SURGE ARRESTOR (EDCO MODEL SHA-XXX3) X=20-240-480 VOLT	EACH	5	5
XP000125	PHOTO CONTROL, 105V-285V (ALR-MODEL SSTPV-ON)	EACH	5	5
XP000126	12XLPE 1/C COPPER WIRE	FOOT	4615	4615
XP000127	8 XLP-TYPE 1/C C WIRE	FOOT	500	500
XP000128	6 XLP-TYPE 1/C C WIRE	FOOT	10282	10282
XP000129	60A LIGHTING CONTRACTOR	EACH	30	30
XP000130	100A LIGHTING CONTRACTOR	EACH	10	10
XP000132	50A CIRCUIT BREAKER, 1P	EACH	60	60
XP000135	50A CIRCUIT BREAKER, 2P	EACH	5	5
XP000137	150A CIRCUIT BREAKER, 2P	EACH	30	30
XP000138	200A CIRCUIT BREAKER, 2P	EACH	30	30
XP000139	BREAKAWAY COUPLING, 1"	EACH	30	30

MODEL: #400DELNAMRES
FILE NAME: \$FILE\$

USER NAME = \$USERS	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = \$\$CALES	CHECKED - _____	REVISED - _____
PLOT DATE = \$DATES	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 04 OF 08 SHEETS STA. ___+___ TO STA. ___+___

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ROUTE	DIST 8 L TS 2023-2	VARIOUS	11	6
			CONTRACT NO. CNT. NO.	
			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				100% STATE
				TRAFFIC SIGNALS
				0021 URBAN
XP000140	1-4" X 1-4" STAINLESS STEEL MESH	SQFT	10	10
XP000141	ALUMINUM SIGNAL BASE, SQUARE (PELCO)	EACH	80	80
XP000142	ALUMINUM SIGNAL POST, 13', SCH 80 (PELCO)	EACH	25	25
XP000145	MAST ARM BRACKET, 3 SECTION (PELCO AB 116)	EACH	30	30
XP000146	MAST ARM BRACKET, 4 SECTION (PELCO AB 116)	EACH	30	30
XP000147	MAST ARM BRACKET, 5 SECTION (PELCO AB 116)	EACH	40	40
XP000161	LAMP, QUARTZ HALOGEN, 43W, 10.8V (GE OR EQUIVALENT)	EACH	80	80
XP000164	SIGNAL HEAD, POLYCARBONATE, LED, 1-SECTION, 12", R OR Y (ECONOLITE OR MCCAIN)	EACH	20	20
XP000165	SIGNAL HEAD, POLYCARBONATE, LED, 3-SECTION, 12", (ECONOLITE OR MCCAIN)	EACH	120	120
XP000166	SIGNAL HEAD, POLYCARBONATE, LED, 4-SECTION, 12", (ECONOLITE OR MCCAIN)	EACH	20	20
XP000167	SIGNAL HEAD, POLYCARBONATE, LED, 5-SECTION, 12", (ECONOLITE OR MCCAIN)	EACH	30	30
XP000168	PEDESTRIAN HEAD, POLYCARBONATE, LED, 2-SECTION, 12", (ECONOLITE OR MCCAIN)	EACH	40	40
XP000170	ELECTRIC CABLE, 2-C, #14, TW, SH	FEET	3,000	3,000
XP000171	ELECTRIC CABLE, 3 PR, #18, TW, SH	FEET	10	10

MODEL: 4100DELNAME5
FILE NAME: 31ELE5

USER NAME = \$USERS	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = \$\$CALES	CHECKED - _____	REVISED - _____
PLOT DATE = \$DATES	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 05 OF 08 SHEETS STA. ___+___ TO STA. ___+___

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ROUTE	DIST 8 LTS 2023-2	VARIOUS	11	7
			CONTRACT NO. 76R88	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				100% STATE
				TRAFFIC SIGNALS
				0021 URBAN
XP000172	ELECTRIC CABLE, 5 PR, #18, TW, SH	FEET	10	10
XP000173	ELECTRIC CABLE, 6 PR, #18, TW, SH	FEET	2,200	2,200
XP000174	ELECTRIC CABLE, 2-C, #14	FEET	1,500	1,500
XP000175	ELECTRIC CABLE, 3-C, #14	FEET	1,500	1,500
XP000176	ELECTRIC CABLE, 5-C, #14	FEET	5,000	5,000
XP000177	ELECTRIC CABLE, 7-C, #14	FEET	2,000	2,000
XP000179	GROUND ROD, 8', COPPER CLAD	EACH	20	20
XP000180	SPLICE KIT (3-M SCOTCHCAST #72-N1)	EACH	10	10
XP000181	LOOP SEALANT (BONDO P606)	GAL	10	10
XP000186	J BOX, NEMA, 4X, SS, 6"X8"X4", W-ALUMINUM BACKPLATE & LOCK KIT	EACH	10	10
XP000187	HANDHOLE, FRAME & COVER (NEENAH R-6660-JP)	EACH	5	5
XP000188	HANHOLE, COVER ONLY (NEENAH R-6660-JP)	EACH	5	5
XP000191	SIGN, ILLUMINATED, FIBEROPTIC-TYPE, 24"X30" "NO LEFT-RIGHT TURN" OR "LT TURN YIELD"	EACH	5	5
XP000192	SIGN, ILLUMINATED, FIBEROPTIC-TYPE, 24"X30" SYMBOLIC "NO LEFT/RIGHT TURN"	EACH	5	5

MODEL: MODELNAME\$
FILE NAME: \$FILE\$

USER NAME = \$USERS	DESIGNED - _____	REVISED - _____
PLOT SCALE = \$SCALE\$	DRAWN - _____	REVISED - _____
PLOT DATE = \$DATES	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 06 OF 08 SHEETS STA. ___+___ TO STA. ___+___

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	DIST 8 L TS 2023-2	VARIOUS	11	8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76R88	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				100% STATE
				TRAFFIC SIGNALS
				0021 URBAN
XP000193	MONITOR, NEMA CONFLICT, 12 CHANNEL (EDI SSM-12E)	EACH	10	10
XP000194	RELAY, FLASH TRANSFER, (MIDTEX 136-62T3A1)	EACH	5	5
XP000195	DETECTOR, NEMA DIGITAL, 1-CH, SHELF MOUNT (DETECTOR SYSTEMS OR RENO)	EACH	5	5
XP000196	DETECTOR, NEMA DIGITAL, 2-CH, RACK MOUNT (DETECTOR SYSTEMS OR RENO)	EACH	5	5
XP000197	DETECTOR, POWER SUPPLY, RACK MOUNT (DETECTOR SYSTEMS OR RENO)	EACH	5	5
XP000198	CABINET, SIGNAL CONTROLLER, ALUM., TYPE IV, W-MONITOR & ALL PLUG-INS, COMPLETE (ECONOLITE)	EACH	5	5
XP000199	FLASHER, NEMA	EACH	5	5
XP000200	LOAD SWITCH, NEMA	EACH	20	20
XP000203	COLD GALVANIZING, SPRAY CAN	EACH	5	5
XP000205	ALUMINUM LIGHT POLE MAST ARM, 15', TRUSS STYLE	EACH	10	10
XP000207	ALUMINUM LIGHT POLE, 45'. COMPLETE, RD,W-TENON TOP, W-T BASE, 17" B.C., DK. BRONZE POWDER COAT	EACH	10	10
XP000209	UPPER AND LOWER ARM ASSEMBLY, UNPAINTED ALUMINUM	EACH	80	80
XP000210	FLASHER CONTROLLER CABINET ASSEMBLY, NEMA (PELCO SE-1005 OR EQUIVALENT)	EACH	10	10
XP000300	TRAFFIC SIGNAL RELAMPING	EACH	5	5

MODEL: R400ELNAMRES
FILE NAME: SFELEP

USER NAME = \$USERS	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = \$SCALES	CHECKED - _____	REVISED - _____
PLOT DATE = \$DATES	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 07 OF 08 SHEETS STA. ___+___ TO STA. ___+___

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	DIST 8 LTS 2023-2	VARIOUS	11	9
			CONTRACT NO. 76R88	
			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				100% STATE	
				TRAFFIC SIGNALS	
				0021	URBAN
XP000301	TRAFFIC SIGNAL LAMP REPLACEMENT	EACH	5	5	
XP000302	FLASHING BEACON INSPECTION	EACH	5	5	
XP000303	TOWER LIGHTING INSPECTION	EACH	5	5	
XP000304	REPLACE SERVICE INSTALLATION, COMPLETE	EACH	5	5	
XP000307	REPAIR TRAFFIC SIGNAL KNOCKDOWN	EACH	80	80	
XP000308	REPAIR TRAFFIC BEACON KNOCKDOWN	EACH	10	10	
XP000309	REPAIR TRAFFIC LIGHT POLE KNOCKDOWN	EACH	50	50	
XP000310	REPLACE HIGHWAY LIGHT POLE BREAKAWAY DEVICE, COUPLING	EACH	5	5	
XP000311	REPLACE HIGHWAY LIGHT POLE BREAKAWAY DEVICE, TRANSFORMER BASE	EACH	5	5	
XP000312	REPLACE TRAFFIC SIGNAL POST BASE ASSEMBLY	EACH	5	5	

MODEL: R40DELNAMRES
FILE NAME: SFELE3

USER NAME = \$USERS	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = \$\$CALES	CHECKED - _____	REVISED - _____
PLOT DATE = \$DATES	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET 08	OF 08 SHEETS	STA. ___+___ TO STA. ___+___

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ROUTE	DIST 8 L TS 2023-2	VARIOUS	11	10
			CONTRACT NO. 76R88	
			ILLINOIS FED. AID PROJECT	

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE
LED replacement for 250W HPS Horizontal Mount luminaire

GIVEN CONDITIONS		
ROADWAY DATA	Lane Width	12 ft
	Number of Lanes (in One Direction Only)	3
	Median Width	0 ft
	I.E.S. Surface Classification	R3
	Q-Zero Value	.07
LIGHT POLE DATA	Mounting Height	45 ft
	Luminaire Overhang From Edge of Pavement (White Line)	0 ft
LUMINAIRE DATA	Luminaire Type	LED
	I.E.S. Vertical Distribution	Medium
	BUG Rating	U = 0
	I.E.S. Lateral Distribution	Type II or III
	Total Light Loss Factor	0.684
LAYOUT DATA	Spacing	160 ft
	Configuration	One Sided

NOTES:
1. Total light loss factor is the product of "Lumen Depreciation" (LLD) = 0.90, "Dirt Depreciation" (LDF) = 0.80, and "Equipment factors" (EF) = 0.95.

PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

ILLUMINANCE	Average Illuminance, E_{AVE}	0.9 fc to 1.4 fc
	Uniformity Ratio, E_{AVE}/E_{MIN}	$\leq 3.0:1$
LUMINANCE	Average Luminance, L_{AVE}	0.6 cd/m ² to 0.9 cd/m ²
	Uniformity Ratio, L_{AVE}/L_{MIN}	$\leq 3.5:1$
	Uniformity Ratio, L_{MAX}/L_{MIN}	$\leq 6.0:1$
	Max. Veiling Luminance Ratio, L_v/L_{AVE}	$\leq 0.3:1$

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE
LED replacement for 400W HPS Horizontal Mount luminaire

GIVEN CONDITIONS		
ROADWAY DATA	Lane Width	12 ft
	Number of Lanes (in One direction Only)	4
	Median Width	0 ft
	I.E.S. Surface Classification	R3
	Q-Zero Value	.07
LIGHT POLE DATA	Mounting Height	45 ft
	Luminaire Overhang From Edge of Pavement (White Line)	0 ft
LUMINAIRE DATA	Luminaire Type	LED
	I.E.S. Vertical Distribution	Medium
	BUG Rating	U = 0
	I.E.S. Lateral Distribution	Type II or III
	Total Light Loss Factor	0.684
LAYOUT DATA	Spacing	240 ft
	Configuration	One Sided

NOTES:
1. Total light loss factor is the product of "Lumen Depreciation" (LLD) = 0.90, "Dirt Depreciation" (LDF) = 0.80, and "Equipment factors" (EF) = 0.95.

PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

ILLUMINANCE	Average Illuminance, E_{AVE}	0.9 fc to 1.4 fc
	Uniformity Ratio, E_{AVE}/E_{MIN}	$\leq 3.0:1$
LUMINANCE	Average Luminance, L_{AVE}	0.6 cd/m ² to 0.9 cd/m ²
	Uniformity Ratio, L_{AVE}/L_{MIN}	$\leq 3.5:1$
	Uniformity Ratio, L_{MAX}/L_{MIN}	$\leq 6.0:1$
	Max. Veiling Luminance Ratio, L_v/L_{AVE}	$\leq 0.3:1$

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE
LED Replacement for 250W HPS Multi-Mount Luminaire
(replacement luminaire shall be mounted horizontally)

GIVEN CONDITIONS		
ROADWAY DATA	Lane Width	12 ft
	Number of Lanes (One Direction Only)	3
	Median Width	0 ft
	I.E.S. Surface Classification	R3
	Q-Zero Value	.07
LIGHT POLE DATA	Mounting Height	45 ft
	Luminaire Overhang From Edge of Pavement (White Line)	-30 ft
LUMINAIRE DATA	Luminaire Type	LED
	I.E.S. Vertical Distribution	Medium
	BUG Rating	U = 0
	I.E.S. Lateral Distribution	Type III or IV
	Total Light Loss Factor	0.684
LAYOUT DATA	Spacing	145 ft
	Configuration	One Sided

NOTES:
1. Total light loss factor is the product of "Lumen Depreciation" (LLD) = 0.90, "Dirt Depreciation" (LDF) = 0.80, and "Equipment factors" (EF) = 0.95.

PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

ILLUMINANCE	Average Illuminance, E_{AVE}	0.9 fc to 1.4 fc
	Uniformity Ratio, E_{AVE}/E_{MIN}	$\leq 3.0:1$
LUMINANCE	Average Luminance, L_{AVE}	0.6 cd/m ² to 0.9 cd/m ²
	Uniformity Ratio, L_{AVE}/L_{MIN}	$\leq 3.5:1$
	Uniformity Ratio, L_{MAX}/L_{MIN}	$\leq 6.0:1$
	Max. Veiling Luminance Ratio, L_v/L_{AVE}	$\leq 0.3:1$

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE
LED Replacement for 400W HPS Multi-Mount Luminaire
(replacement luminaire shall be mounted horizontally)

GIVEN CONDITIONS		
ROADWAY DATA	Lane Width	12 ft
	Number of Lanes (in One Direction Only)	4
	Median Width	0 ft
	I.E.S. Surface Classification	R3
	Q-Zero Value	.07
LIGHT POLE DATA	Mounting Height	45 ft
	Luminaire Overhang From Edge of Pavement (White Line)	-30 ft
LUMINAIRE DATA	Luminaire Type	LED
	I.E.S. Vertical Distribution	Medium
	BUG Rating	U = 0
	I.E.S. Lateral Distribution	Type III or IV
	Total Light Loss Factor	0.684
LAYOUT DATA	Spacing	155 ft
	Configuration	One Sided

NOTES:
1. Total light loss factor is the product of "Lumen Depreciation" (LLD) = 0.90, "Dirt Depreciation" (LDF) = 0.80, and "Equipment factors" (EF) = 0.95.

PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

ILLUMINANCE	Average Illuminance, E_{AVE}	0.9 fc to 1.4 fc
	Uniformity Ratio, E_{AVE}/E_{MIN}	$\leq 3.0:1$
LUMINANCE	Average Luminance, L_{AVE}	0.6 cd/m ² to 0.9 cd/m ²
	Uniformity Ratio, L_{AVE}/L_{MIN}	$\leq 3.5:1$
	Uniformity Ratio, L_{MAX}/L_{MIN}	$\leq 6.0:1$
	Max. Veiling Luminance Ratio, L_v/L_{AVE}	$\leq 0.3:1$

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE
LED Replacement for 150W HPS Underpass Luminaire

GIVEN CONDITIONS		
ROADWAY DATA	Lane Width	12 ft
	Number of Lanes (in One Direction Only)	2
	Median Width	0 ft
	I.E.S. Surface Classification	R3
	Q-Zero Value	.07
LIGHT POLE DATA	Mounting Height	16 ft
	Luminaire Overhang From Edge of Pavement (White Line)	-20 ft
LUMINAIRE DATA	Luminaire Type	LED
	I.E.S. Vertical Distribution	Medium
	BUG Rating	U = 0
	I.E.S. Lateral Distribution	Type III or IV
	Total Light Loss Factor	0.684
LAYOUT DATA	Spacing	60 ft
	Configuration	One Sided

NOTES:
1. Total light loss factor is the product of "Lumen Depreciation" (LLD) = 0.90, "Dirt Depreciation" (LDF) = 0.80, and "Equipment factors" (EF) = 0.95.

PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

LUMINANCE	Average Luminance, L_{AVE}	0.6 cd/m ² to 0.9 cd/m ²
	Uniformity Ratio, L_{AVE}/L_{MIN}	$\leq 3.5:1$
	Uniformity Ratio, L_{MAX}/L_{MIN}	$\leq 6.0:1$
	Max. Veiling Luminance Ratio, L_v/L_{AVE}	$\leq 0.3:1$

MODEL: 400DELUMIN
FILE NAME: SLELE3

USER NAME = \$USERS	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = \$SCALES	CHECKED - _____	REVISED - _____
PLOT DATE = \$DATES	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUMINAIRE PERFORMANCE TABLE

SCALE: SHEET 01 OF 01 SHEETS STA. ___+___ TO STA. ___+___

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DIST 8 L TS 2023-2	VARIOUS	11	11
CONTRACT NO. 76R88				
ILLINOIS FED. AID PROJECT				