

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	DIST 8 L TS 2026-1	VARIOUS	8	1
		ILLINOIS	CONTRACT NO. 76U53	

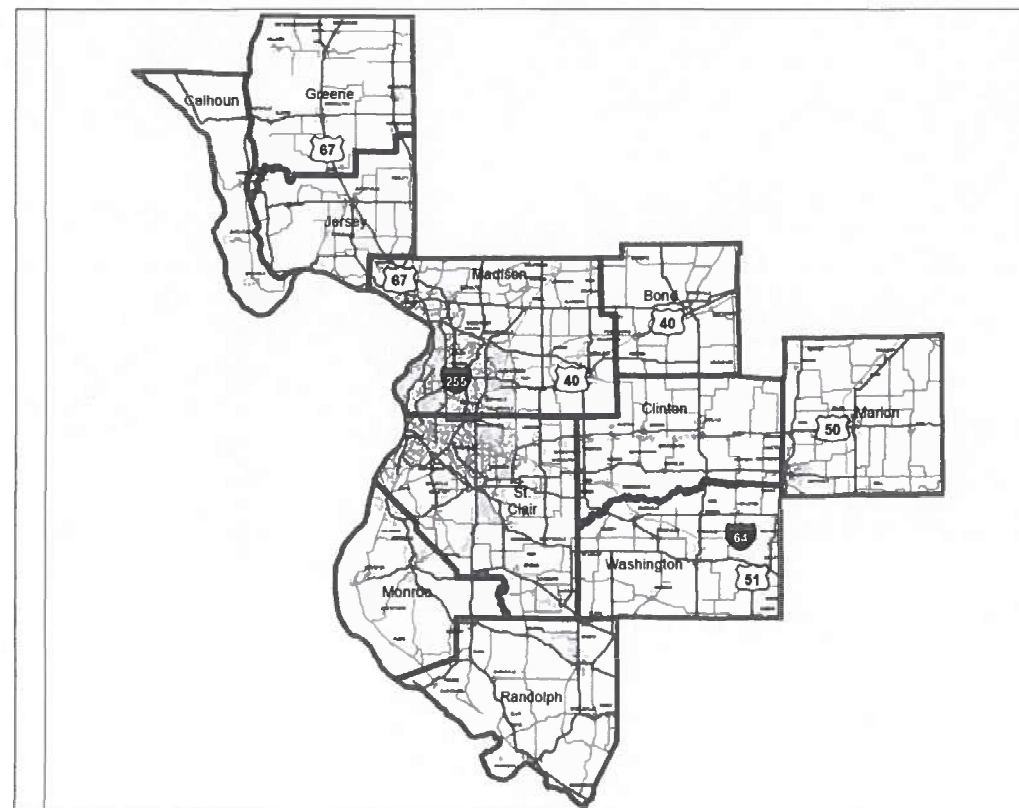
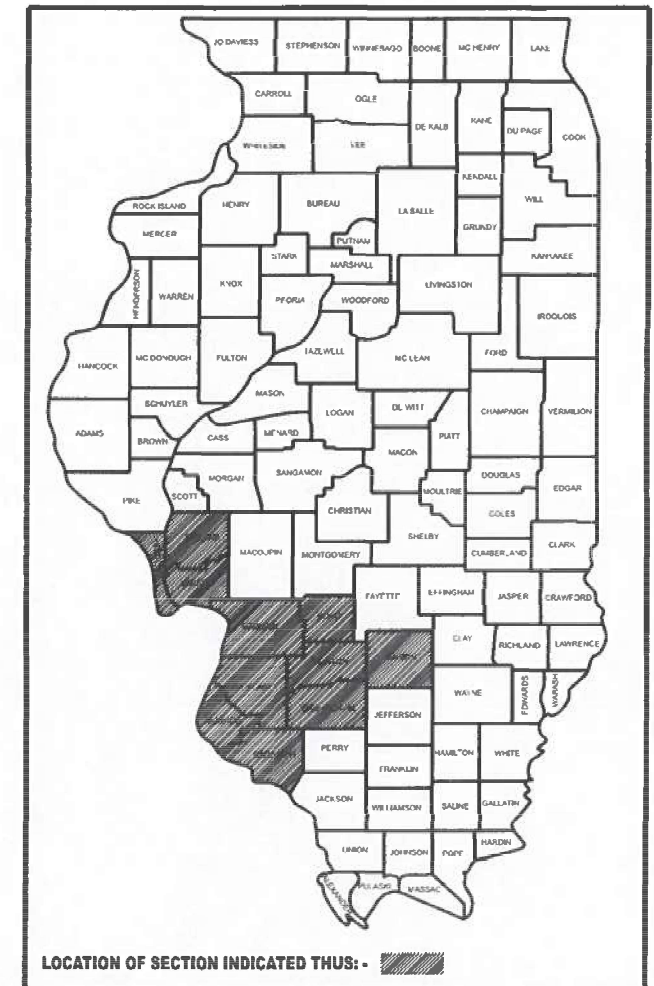
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED
HIGHWAY PLANS**

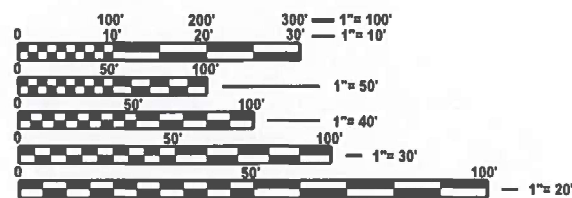
**VARIOUS ROUTES
SECTION : DIST 8 L TS 2026-1
HIGHWAY LIGHTING, TRAFFIC SIGNAL
MODERNIZATION
VARIOUS COUNTIES**

C-98-114-25

D-98-048-25



FOR INDEX OF SHEETS, SEE SHEET NO. 2



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: RICHARD BARBEE

CONTRACT NO. 76U53

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Feb. 3 2026
Lucy J. [Signature] REGIONAL ENGINEER

March 20 2026
[Signature] ENGINEER OF DESIGN AND ENVIRONMENT

March 20 2026
[Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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INDEX OF SHEETS

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- 8. CONCRETE FOUNDATION TYPE A PED PUSH-BUTTON POST

COMMITMENTS

NONE

HIGHWAY STANDARDS

701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 M) AWAY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701206-05	LANE CLOSURE, 2L, 2W, NIGHT ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W SHORT TIME OPERATIONS
701400-12	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-13	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701446-11	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701451-05	RAMP CLOSURE FREEWAY/EXPRESSWAY
701456-05	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-11	TRAFFIC CONTROL DEVICES
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS
000001-09	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT

GENERAL NOTES

1. NO SURVEY WAS PERFORMED FOR THIS PROJECT AND THE PLANS WERE CREATED USING MICROFILM AND FIELD MEASUREMENTS.
2. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.
3. THE LOCATIONS OF THE REPAIR AREAS SHALL BE DETERMINED BY THE ENGINEER/DEPARTMENT.
4. NO MATERIAL SHALL BE LEFT ON OR NEAR THE ROADWAY DURING NON-WORKING HOURS.
5. ANY NECESSARY TRAFFIC CONTROL WILL BE PROVIDED BY THE CONTRACTOR APPROPRIATE STANDARDS ARE LISTED.
6. A FLAGGER SHALL BE REQUIRED AT ALL TIMES WHEN WORKERS OR EQUIPMENT ARE ENCROACHING ON THE LANE OF TRAFFIC.
7. 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.
8. ANY WORK ORDER MAY BE CANCELED AT THE ENGINEER'S/DEPARTMENT'S DISCRETION.
9. NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, HIGHWAY STANDARDS,
COMMITMENTS, & GENERAL NOTES**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	DIST 8 L TS 2026-1	VARIOUS	8	2
CONTRACT NO. 76U53				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				100% STATE	100% CM
				TRAFFIC SIGNALS 0021 URBAN	TRAFFIC SIGNALS 0021 URBAN
80300100	LOCATING UNDERGROUND CABLE	FOOT	1000	1000	
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	70	60	10
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	1000	1000	
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	1000	1000	
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	60	60	
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	30	30	
88800100	PEDESTRIAN PUSH-BUTTON	EACH	100	100	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				100% STATE	100% CM
				TRAFFIC SIGNALS 0021 URBAN	TRAFFIC SIGNALS 0021 URBAN
X0327495	JOURNEYMAN ELECTRICIAN	HOUR	1500	1300	200
X0327496	APPRENTICE ELECTRICIAN	HOUR	250	150	100
X0327497	PICK-UP TRUCK	HOUR	1500	1050	450
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	500	400	100
X1400188	MAIN DRIVE CONTROLLER	EACH	1	1	
X7010218	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	29	29	
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	150	100	50
X8760201	PEDESTRIAN PUSH-BUTTON POST	EACH	50	50	
X8860400	DETECTOR LOOP (SPECIAL)	FOOT	7500	5000	2500
XP000015	DIGGER DERRICK	HOUR	100	100	
XP000028	LABOR	HOUR	100	100	

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	DIST 8 L TS 2026-1	VARIOUS	8	3
CONTRACT NO. 76U53				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				100% STATE	100% CM
				TRAFFIC SIGNALS 0021 URBAN	TRAFFIC SIGNALS 0021 URBAN
XP000029	BUCKET TRUCK/VAN FOR TRAFFIC SIGNALS	HOUR	1200	800	400
XP000030	BUCKET TRUCK FOR HIGHWAY LIGHTING	HOUR	1000	700	300
XP000031	POLE TRAILER	HOUR	100	100	
XP000032	FLATBED TRAILER	HOUR	100	100	
XP000101	ATQ 5A FUSE 200	EACH	200	200	
XP000102	FNQ 5A FUSE	EACH	200	200	
XP000104	FNM 10A FUSE	EACH	5	5	
XP000105	FRNR 60A FUSE	EACH	5	5	
XP000106	BUCHANAN FUSEHOLDER KIT	EACH	50	50	
XP000115	150W HPS LAMP	EACH	5	5	
XP000116	250W HPS LAMP	EACH	100	100	
XP000118	400W HPS LAMP	EACH	350	350	
XP000119	150W 240/480V BALLAST KIT	EACH	5	5	
XP000120	250W 240/480V BALLAST KIT	EACH	100	100	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				100% STATE	100% CM
				TRAFFIC SIGNALS 0021 URBAN	TRAFFIC SIGNALS 0021 URBAN
XP000122	400W 240/480V BALLAST KIT	EACH	200	150	50
XP000123	SD-100 BU STARTER	EACH	5	5	
XP000124	SURGE ARRESTOR (EDCO MODEL SHA-XXX3) X=20/240/480 VOLTS	EACH	20	20	
XP000125	PHOTO CONTROL, 105V-285V (ALR-MODEL SSTPV-ON)	EACH	20	20	
XP000126	#12 XLPE 1/C COPPER WIRE	FEET	500	500	
XP000127	#8 XLP-TYPE USE 1/C COPPER WIRE	FEET	500	500	
XP000128	#6 XLP-TYPE USE 1/C COPPER WIRE	FEET	10000	10000	
XP000129	60A LIGHTING CONTACTOR	EACH	5	5	
XP000130	100A LIGHTING CONTACTOR	EACH	5	5	
XP000132	50A CIRCUIT BREAKER, 1P	EACH	5	5	
XP000135	50A CIRCUIT BREAKER, 2P	EACH	5	5	
XP000137	150A CIRCUIT BREAKER, 2P	EACH	5	5	
XP000138	200A CIRCUIT BREAKER, 2P	EACH	5	5	
XP000139	BREAKAWAY COUPLING, 1"	EACH	5	5	

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	DIST 8 L TS 2026-1	VARIOUS	8	4
CONTRACT NO. 76U53				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				100% STATE	100% CM
				TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021
				URBAN	URBAN
XP000140	1/4" X 1/4" STAINLESS STEEL MESH	SQ FT	10	10	
XP000141	ALUMINUM SIGNAL BASE, SQUARE (PELCO)	EACH	175	100	75
XP000142	ALUMINUM SIGNAL POST, 13', SCH 80 (PELCO)	EACH	10	5	5
XP000145	MAST ARM BRACKET, 3 SECTION (PELCO AB 11 6)	EACH	5	5	
XP000146	MAST ARM BRACKET, 4 SECTION (PELCO AB 11 6)	EACH	5	5	
XP000147	MAST ARM BRACKET, 5 SECTION (PELCO AB 11 6)	EACH	5	5	
XP000161	LAMP, QUARTZ HALOGEN, 43W @, 10.8V (GE OR EQUIVALENT)	EACH	50	50	
XP000164	SIGNAL HEAD, POLYCARBONATE, LED, 1-SECTION, 12", R OR Y (ECONOLITE OR MCCAIN)	EACH	30	20	10
XP000165	SIGNAL HEAD, POLYCARBONATE, LED, 3-SECTION, 12", (ECONOLITE OR MCCAIN)	EACH	200	150	50
XP000166	SIGNAL HEAD, POLYCARBONATE, LED, 4-SECTION, 12", (ECONOLITE OR MCCAIN)	EACH	50	50	
XP000167	SIGNAL HEAD, POLYCARBONATE, LED, 5-SECTION, 12", (ECONOLITE OR MCCAIN)	EACH	50	50	
XP000168	PEDESTRIAN HEAD, POLYCARBONATE, LED, 2-SECTION, 12", (ECONOLITE OR MCCAIN)	EACH	40	40	
XP000170	ELECTRIC CABLE, 2/C, #14, TW, SH	FEET	3000	3000	
XP000171	ELECTRIC CABLE, 3 PR, #18, TW, SH	FEET	10	10	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				100% STATE	100% CM
				TRAFFIC SIGNALS 0021	TRAFFIC SIGNALS 0021
				URBAN	URBAN
XP000172	ELECTRIC CABLE, 5 PR, #18, TW, SH	FEET	10	10	
XP000173	ELECTRIC CABLE, 6 PR, #18, TW, SH	FEET	10	10	
XP000174	ELECTRIC CABLE, 2/C, #14	FEET	3000	3000	
XP000175	ELECTRIC CABLE, 3/C, #14	FEET	3000	3000	
XP000176	ELECTRIC CABLE, 5/C, #14	FEET	4500	4000	500
XP000177	ELECTRIC CABLE, 7/C, #14	FEET	4500	4000	500
XP000179	GROUND ROD, 8', COPPER CLAD	EACH	5	5	
XP000180	SPLICE KIT (3-M SCOTCHCAST #72-N1)	EACH	10	10	
XP000181	LOOP SEALANT (BONDO P606)	GALLON	30	30	
XP000186	J BOX, NEMA, 4X, SS, 6"X8"X4", W/ ALUMINUM BACKPLATE & LOCK KIT	EACH	5	5	
XP000187	HANDHOLE, FRAME & COVER (NEENAH R-6660- JP)	EACH	5	5	
XP000188	HANDHOLE, COVER ONLY (NEENAH R-6660-JP)	EACH	20	20	
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	

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	DIST 8 L TS 2026-1	VARIOUS	8	5
CONTRACT NO. 76U53				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				100% STATE	100% CM
				TRAFFIC SIGNALS 0021 URBAN	TRAFFIC SIGNALS 0021 URBAN
XP000193	MONITOR, NEMA CONFLICT, 12 CHANNEL (EDI SSM-12C)	EACH	5	5	
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	20	20	
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	20	20	
XP000200	LOAD SWITCH, NEMA	EACH	40	40	
XP000203	COLD GALVANIZING, SPRAY CAN	EACH	5	5	
XP000205	ALUMINUM LIGHT POLE MAST ARM, 15', TRUSS STYLE	EACH	40	40	
XP000207	ALUMINUM LIGHT POLE, 45', COMPLETE, RD, W/ TENON TOP, W/T BASE, 17" B.C., DK. BRONZE POWDER COAT	EACH	5	5	
XP000209	UPPER AND LOWER ARM ASSEMBLY, UNPAINTED ALUMINUM	EACH	210	150	60
XP000210	FLASHER CONTROLLER CABINET ASSEMBLY, NEMA (PELCO SE-1005 OR EQUIVALENT)	EACH	5	5	
XP000300	TRAFFIC SIGNAL RELAMPING	EACH	5	5	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				100% STATE	100% CM
				TRAFFIC SIGNALS 0021 URBAN	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	200	160	40
XP000308	REPAIR FLASHING BEACON KNOCKDOWN	EACH	70	50	20
XP000309	REPAIR HIGHWAY LIGHT POLE KNOCKDOWN	EACH	150	150	
XP000310	REPLACE HIGHWAY LIGHT POLE BREAKAWAY DEVICE, COUPLINGS	EACH	5	5	
XP000311	REPLACE HIGHWAY LIGHT POLE BREAKAWAY DEVICE, TRANSFORMER BASE	EACH	40	40	
XP000312	REPLACE TRAFFIC SIGNAL POST BASE ASSEMBLY	EACH	40	40	

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	DIST 8 L TS 2026-1	VARIOUS	8	6
CONTRACT NO. 76U53				
ILLINOIS FED. AID PROJECT				



Luminaire Performance Table

Project Information: Date 03/03/25, Contract Number N/A, Section Number N/A, County. Roadway: Lane Width 12, Number and Direction of lanes 2 lanes in 1 Direction Only, Median Width N/A, Surface Classification R3, Q-Zero Value 0.07. Structure: Mounting Height 16 ft, Arm Length 0 ft, Set-Back 20 ft, Number of Luminaires N/A. Luminaire: Description Replacement For 150W Underpass, Transverse Distribution Type III, Lateral Distribution Medium. Total Light Loss Factor (LLF) U=0, B-U-G Rating N/A, Shields N/A, Dimming Protocol 0-10V. Layout: Spacing 60 ft, Configuration Single Sided. Performance: Average Illuminance 0.9 to 1.4, Uniformity Ratio less than or equal to 3.0:1. Light Trespass: Distance to ROW (behind pole) N/A, Max. Horizontal Illuminance at ROW, E_h N/A, Max. Vertical Illuminance at ROW, E_v N/A.

- Notes: 1. Set-Back is from Edge of Pavement (white line). 2. Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to the roadway. 3. Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above. 4. Lane width is the width of each individual lane, not to be confused with total roadway width. 5. Compliance with performance criteria shall be held to one significant digit. 6. Photometric calculations for roadways shall be performed with a total light loss factor of 0.7. 7. Light trespass calculations shall be performed with a total light loss factor of 1.0 and with horizontal calculations performed at grade and vertical calculations performed with calculation points located three feet above grade. 8. Luminaire performance table is intended to define the luminaire and does not necessarily match any specific roadway geometry, mounting height, setback, or arm length.

Printed 03/03/25

BDE 5630 (Rev. 06/06/24)



Luminaire Performance Table

Project Information: Date 03/03/25, Contract Number N/A, Section Number N/A, County. Roadway: Lane Width 12, Number and Direction of lanes 3, Median Width N/A, Surface Classification R3, Q-Zero Value 0.07. Structure: Mounting Height 45 ft, Arm Length 15 ft, Set-Back 15 ft, Number of Luminaires N/A. Luminaire: Description Replacement for 250W Horizontal Mount, Transverse Distribution Type III, Lateral Distribution Medium. Total Light Loss Factor (LLF) U=0, B-U-G Rating N/A, Shields N/A, Dimming Protocol 0-10V. Layout: Spacing 160 ft, Configuration Single Sided. Performance: Average Illuminance 0.9 to 1.4, Uniformity Ratio less than or equal to 3.0:1. Light Trespass: Distance to ROW (behind pole) N/A, Max. Horizontal Illuminance at ROW, E_h N/A, Max. Vertical Illuminance at ROW, E_v N/A.

- Notes: 1. Set-Back is from Edge of Pavement (white line). 2. Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to the roadway. 3. Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above. 4. Lane width is the width of each individual lane, not to be confused with total roadway width. 5. Compliance with performance criteria shall be held to one significant digit. 6. Photometric calculations for roadways shall be performed with a total light loss factor of 0.7. 7. Light trespass calculations shall be performed with a total light loss factor of 1.0 and with horizontal calculations performed at grade and vertical calculations performed with calculation points located three feet above grade. 8. Luminaire performance table is intended to define the luminaire and does not necessarily match any specific roadway geometry, mounting height, setback, or arm length.

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BDE 5630 (Rev. 06/06/24)



Luminaire Performance Table

Project Information: Date 03/03/25, Contract Number N/A, Section Number N/A, County. Roadway: Lane Width 12, Number and Direction of lanes 3, Median Width N/A, Surface Classification R3, Q-Zero Value 0.07. Structure: Mounting Height 45 ft, Arm Length 1 ft, Set-Back 30 ft, Number of Luminaires N/A. Luminaire: Description Replacement for 250W Multi-Mount, Transverse Distribution Type III, Lateral Distribution Medium. Total Light Loss Factor (LLF) U=0, B-U-G Rating N/A, Shields N/A, Dimming Protocol 0-10V. Layout: Spacing 145 ft, Configuration Single Sided. Performance: Average Illuminance 0.9 to 1.4, Uniformity Ratio less than or equal to 3.0:1. Light Trespass: Distance to ROW (behind pole) N/A, Max. Horizontal Illuminance at ROW, E_h N/A, Max. Vertical Illuminance at ROW, E_v N/A.

- Notes: 1. Set-Back is from Edge of Pavement (white line). 2. Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to the roadway. 3. Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above. 4. Lane width is the width of each individual lane, not to be confused with total roadway width. 5. Compliance with performance criteria shall be held to one significant digit. 6. Photometric calculations for roadways shall be performed with a total light loss factor of 0.7. 7. Light trespass calculations shall be performed with a total light loss factor of 1.0 and with horizontal calculations performed at grade and vertical calculations performed with calculation points located three feet above grade. 8. Luminaire performance table is intended to define the luminaire and does not necessarily match any specific roadway geometry, mounting height, setback, or arm length.

Printed 03/03/25

BDE 5630 (Rev. 06/06/24)



Luminaire Performance Table

Project Information: Date 03/03/25, Contract Number N/A, Section Number N/A, County. Roadway: Lane Width 12, Number and Direction of lanes 4, Median Width N/A, Surface Classification R3, Q-Zero Value 0.07. Structure: Mounting Height 45 ft, Arm Length 15 ft, Set-Back 15 ft, Number of Luminaires N/A. Luminaire: Description Replacement for 400W Horizontal Mount, Transverse Distribution Type III, Lateral Distribution Medium. Total Light Loss Factor (LLF) U=0, B-U-G Rating N/A, Shields N/A, Dimming Protocol 0-10V. Layout: Spacing 240 ft, Configuration Single Sided. Performance: Average Illuminance 0.9 to 1.4, Uniformity Ratio less than or equal to 3.0:1. Light Trespass: Distance to ROW (behind pole) N/A, Max. Horizontal Illuminance at ROW, E_h N/A, Max. Vertical Illuminance at ROW, E_v N/A.

- Notes: 1. Set-Back is from Edge of Pavement (white line). 2. Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to the roadway. 3. Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above. 4. Lane width is the width of each individual lane, not to be confused with total roadway width. 5. Compliance with performance criteria shall be held to one significant digit. 6. Photometric calculations for roadways shall be performed with a total light loss factor of 0.7. 7. Light trespass calculations shall be performed with a total light loss factor of 1.0 and with horizontal calculations performed at grade and vertical calculations performed with calculation points located three feet above grade. 8. Luminaire performance table is intended to define the luminaire and does not necessarily match any specific roadway geometry, mounting height, setback, or arm length.

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Luminaire Performance Table

Project Information: Date 03/03/25, Contract Number N/A, Section Number N/A, County. Roadway: Lane Width 12, Number and Direction of lanes 4, Median Width N/A, Surface Classification R3, Q-Zero Value 0.07. Structure: Mounting Height 45 ft, Arm Length 1 ft, Set-Back 30 ft, Number of Luminaires N/A. Luminaire: Description Replacement for 400W Multi-Mount, Transverse Distribution Type III, Lateral Distribution Medium. Total Light Loss Factor (LLF) U=0, B-U-G Rating N/A, Shields N/A, Dimming Protocol 0-10V. Layout: Spacing 155 ft, Configuration Single Sided. Performance: Average Illuminance 0.9 to 1.4, Uniformity Ratio less than or equal to 3.0:1. Light Trespass: Distance to ROW (behind pole) N/A, Max. Horizontal Illuminance at ROW, E_h N/A, Max. Vertical Illuminance at ROW, E_v N/A.

- Notes: 1. Set-Back is from Edge of Pavement (white line). 2. Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to the roadway. 3. Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above. 4. Lane width is the width of each individual lane, not to be confused with total roadway width. 5. Compliance with performance criteria shall be held to one significant digit. 6. Photometric calculations for roadways shall be performed with a total light loss factor of 0.7. 7. Light trespass calculations shall be performed with a total light loss factor of 1.0 and with horizontal calculations performed at grade and vertical calculations performed with calculation points located three feet above grade. 8. Luminaire performance table is intended to define the luminaire and does not necessarily match any specific roadway geometry, mounting height, setback, or arm length.

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MODEL - Light (Sheet)
FILE NAME - c:\p\work\wv\wv\wv\daniel.hopkins@illinois.gov\1199199109\087676\053-sh-lumans.dgn

USER NAME = daniel.hopkins	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 3/6/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUMINAIRE PERFORMANCE TABLE			
SCALE:	SHEET 1	OF 2	SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	DIST 8 L TS 2026-1	VARIOUS	8	7
CONTRACT NO. 76U53				
ILLINOIS FED. AID PROJECT				

