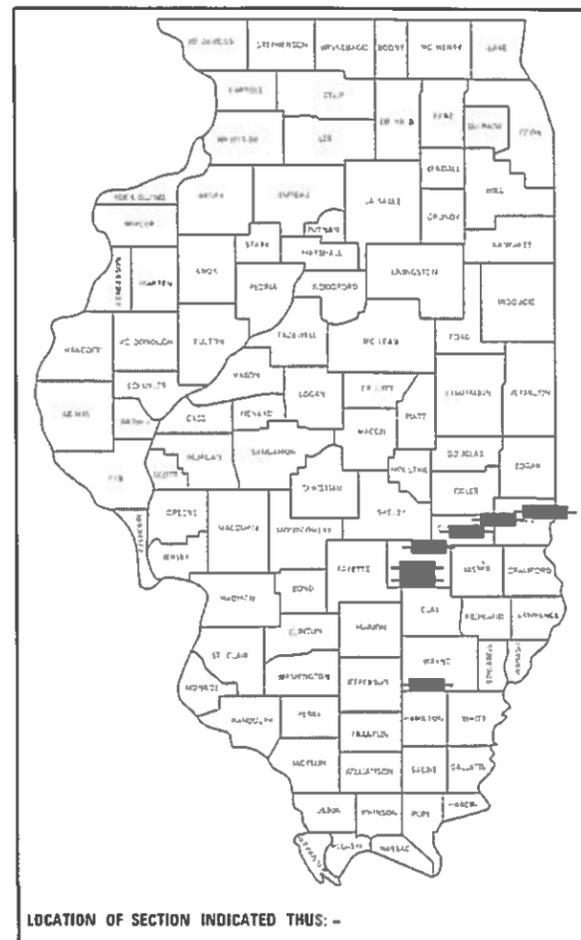


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FA. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR. D7	HIGHWAY LIGHTING 2019-	VARIOUS	24	1
Inches			CONTRACT NO. 74913	

D-97-030-19

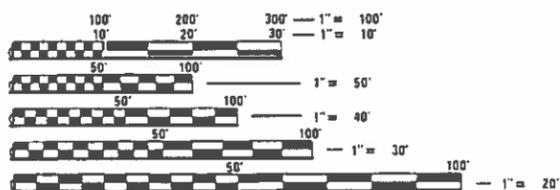
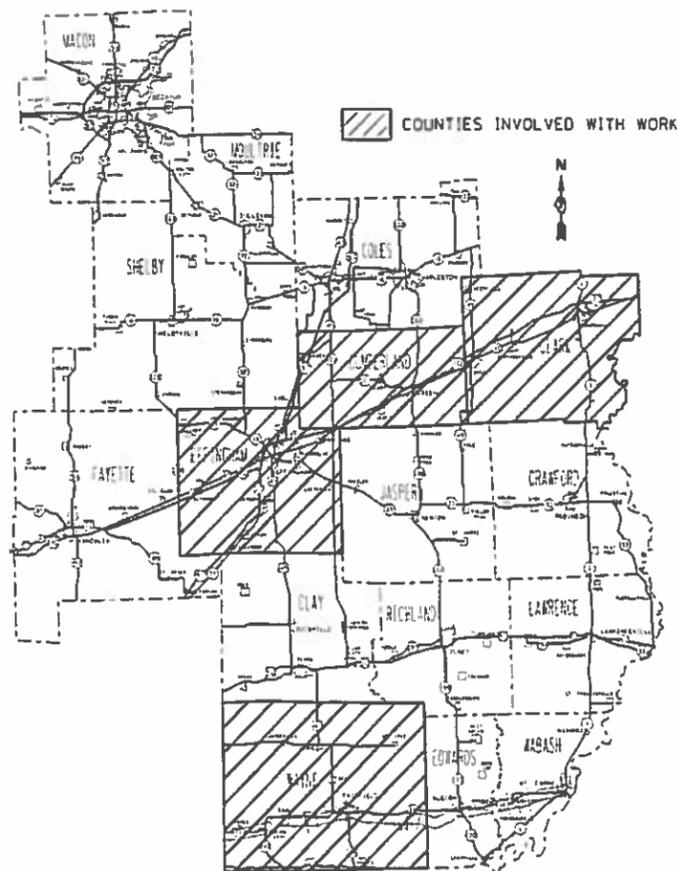


FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

VARIOUS ROUTES
SECTION D7 HIGHWAY LIGHTING 2019-1
PROJECT NHPP-A0AH(390)
HIGHWAY LIGHTING REPLACEMENT
VARIOUS COUNTIES

C-97-044-19



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 EXCAVATORS
1-800-892-0123
DR 811

PROJECT ENGINEER: TOM RONAN
PROJECT ENGINEER: DEWAYNE SEACHRIST
PROJECT MANAGER: RYAN WEI
PHONE: (217)342-8320
PHONE: (217)342-8286

CONTRACT NO. 74913

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED April 04 2019
Jeffrey M. Smith
REGIONAL ENGINEER

May 10 2019
Eric A. Etk
ENGINEER OF DESIGN AND ENVIRONMENT

May 19 2019
David P. Chaf
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

ILLINOIS DEPARTMENT OF TRANSPORTATION			TOTAL QUANTITIES	VARIOUS COUNTIES 90% FED / 10% STATE			
SUMMARY OF QUANTITIES				0021	0021	0021	0021
CODE NO	ITEM	UNIT		EFFINGHAM COUNTY	CLARK COUNTY	CUMBERLAND COUNTY	WAYNE COUNTY
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12			
67100100	MOBILIZATION	L SUM	1	0.37	0.37	0.13	0.13
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD	EACH	4	4			
	701411						
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD	L SUM	1	0.17	0.49	0.17	0.17
	701201						
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD	L SUM	1	1			
	701401						
70100820	TRAFFIC CONTROL AND PROTECTION, STANDARD	L SUM	1	1			
	701451						
70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD	L SUM	1	0.2	0.6		0.2
	701456						
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	14	14		
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1		1		
81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC	FOOT	532	14	518		
	CONDUIT, 2" DIA.						

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PLOT DATE = 4/5/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR. D7 HIGHWAY LIGHTING 2019-		VARIOUS	24	3
			CONTRACT NO. 74913	
		ILLINOIS	FED. AID PROJECT	

ILLINOIS DEPARTMENT OF TRANSPORTATION				VARIOUS COUNTIES 90% FED / 10% STATE			
SUMMARY OF QUANTITIES			TOTAL QUANTITIES				
CODE NO	ITEM	UNIT		0021 EFFINGHAM COUNTY	0021 CLARK COUNTY	0021 CUMBERLAND COUNTY	0021 WAYNE COUNTY
81603000	UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	10507	1932	8575		
82110007	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	81	20	26	17	18
82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	137	119	18		
82110015	LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION H	EACH	16	16			
82500330	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	1		1		
83003600	LIGHT POLE, ALUMINUM, 45 FT. M.H., 15 FT. DAVIT ARM	EACH	3	3			
83012400	LIGHT POLE, ALUMINUM, 45 FT. M.H., TENON MOUNT	EACH	18		18		
83502500	LIGHT TOWER, 100 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8	EACH	2	2			
83600356	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8 5/8" X 6'	EACH	21	3	18		
83700300	LIGHT TOWER FOUNDATION, 48" DIAMETER	FOOT	45	45			

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PLOT DATE = 4/5/2019	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR. D7 HIGHWAY LIGHTING 2019-		VARIOUS	24	4
			CONTRACT NO. 74913	
			ILLINOIS FED. AID PROJECT	

ILLINOIS DEPARTMENT OF TRANSPORTATION			TOTAL QUANTITIES	VARIOUS COUNTIES 90% FED / 10% STATE			
SUMMARY OF QUANTITIES				0021	0021	0021	0021
CODE NO	ITEM	UNIT		EFFINGHAM COUNTY	CLARK COUNTY	CUMBERLAND COUNTY	WAYNE COUNTY
83800650	BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	84	12	72		
84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	9	3	6		
84200804	REMOVAL OF POLE FOUNDATION	EACH	9	3	6		
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1		1		
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1		1		
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1		1		
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	8210	1912	6298		
X0323710	REMOVE CONDUIT ATTACHED TO STRUCTURE	FOOT	347		347		
X0327303	REMOVAL OF EXISTING SIGN LIGHTING UNIT WITH NO SALVAGE	EACH	1		1		
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.5	0.25	0.25		
X8420502	REMOVAL OF LIGHT TOWER, NO SALVAGE	EACH	6	2	4		
X8420510	REMOVAL OF TOWER FOUNDATION	EACH	6	2	4		
X8950130	MODIFY EXISTING LIGHTING CONTROLLER	EACH	1	1			

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR. D7 HIGHWAY LIGHTING 2019-		VARIOUS	24	5
			CONTRACT NO. 74913	
		ILLINOIS	FED. AID PROJECT	

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LED RETROFIT SCHEDULE						
Location No.	County	Route	Exit No.	Location Description	LED RETROFITS OUTPUT DESIGNATION H	LED RETROFITS OUTPUT DESIGNATION G
1	Effingham	I-57 (SB)	167	Southbound Green Creek Rest Area		
2	Effingham	I-57/I-70	158	South Tri-level, SW of Effingham	116	
3	Effingham	I-57	151	Watson Interchange		20
4	Cumberland	I-70	119	Greenup Interchange		17
5	Clark	I-70	129	Casey Interchange		
6	Clark	I-70	136	Martinsville Interchange		14
7	Clark	I-70	154	US Route 40 Interchange		12
8	Wayne	I-64	100	Wayne City Interchange		18
TOTAL:					116	81

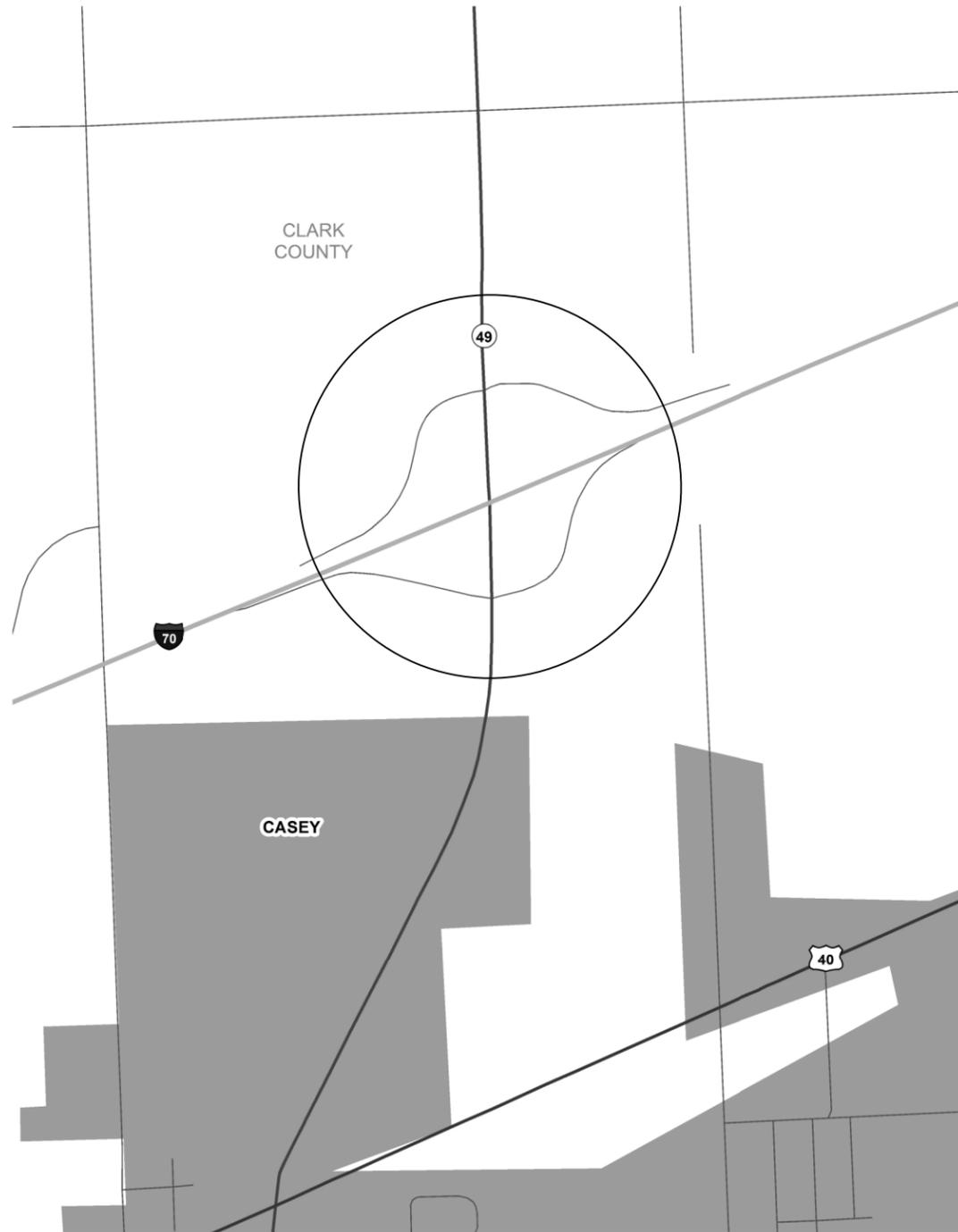
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
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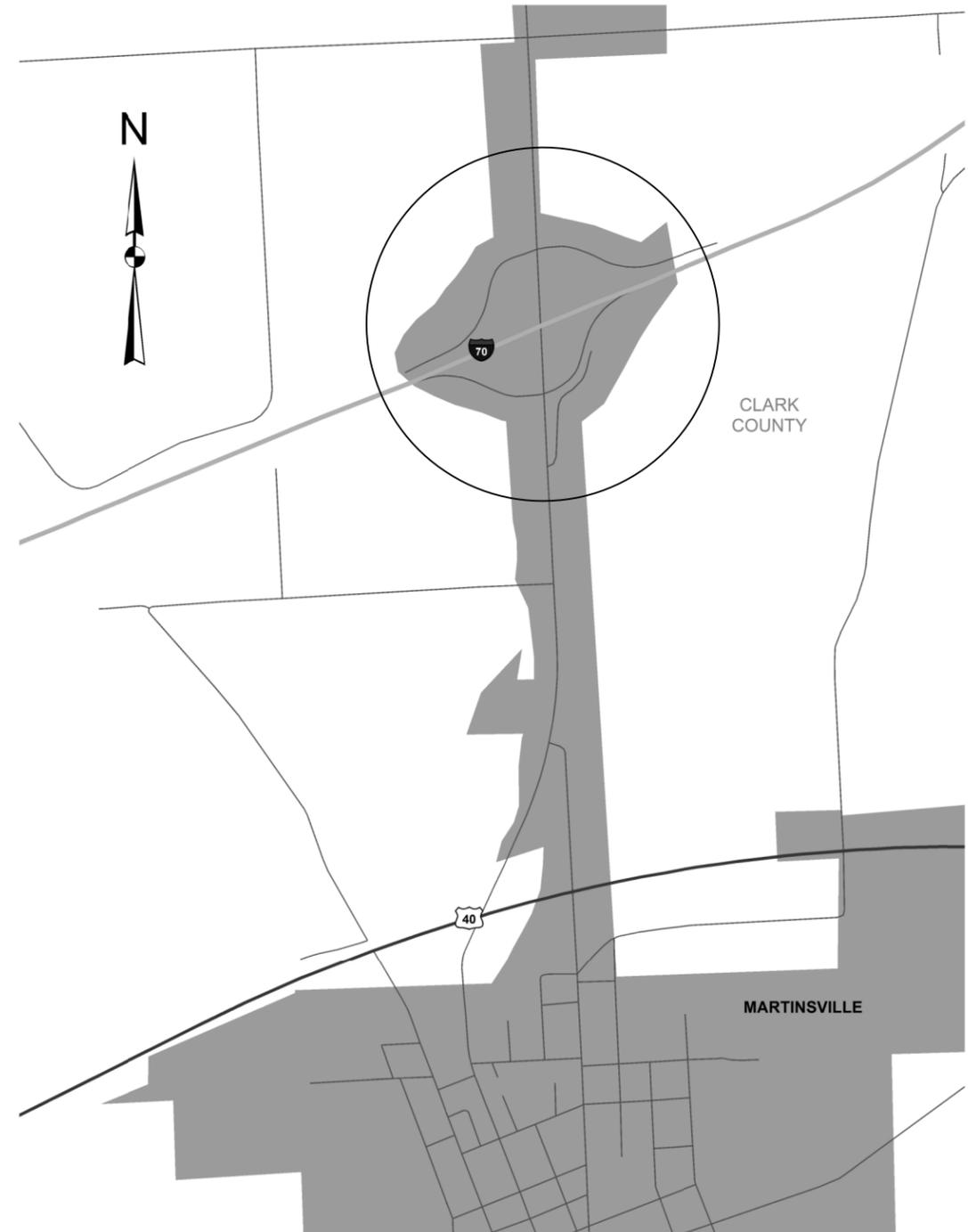
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 HIGHWAY LIGHTING 2019-	VARIOUS	24	7
			CONTRACT NO. 74913	
		ILLINOIS	FED. AID PROJECT	

LOCATION #5



DESCRIPTION OF WORK: REMOVE FOUR 100 FT TOWERS AND REPLACE WITH 12 NEW GROUND MOUNTED LIGHT POLES, NEW WIRING, NEW CONTROLLER, NEW ELECTRIC SERVICE, REMOVE AND REPLACE SIX GROUND MOUNTED LIGHT POLES SOUTH OF INTERCHANGE

LOCATION #6



DESCRIPTION OF WORK: RETROFIT 14 LIGHT POLES WITH NEW LED LUMINAIRES, OUTPUT DESIGNATION G

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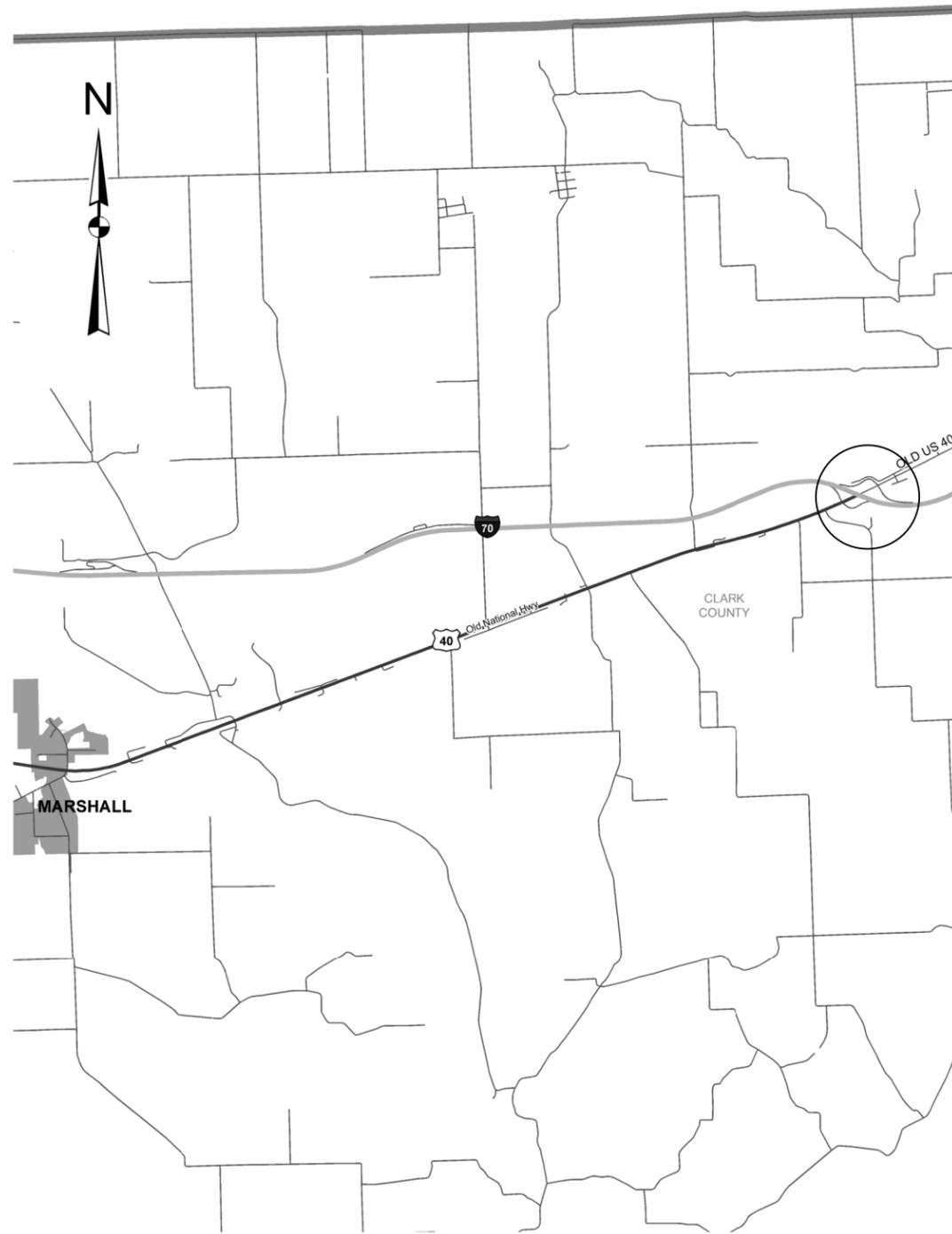
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION MAPS

SCALE: SHEET OF SHEETS STA. TO STA.

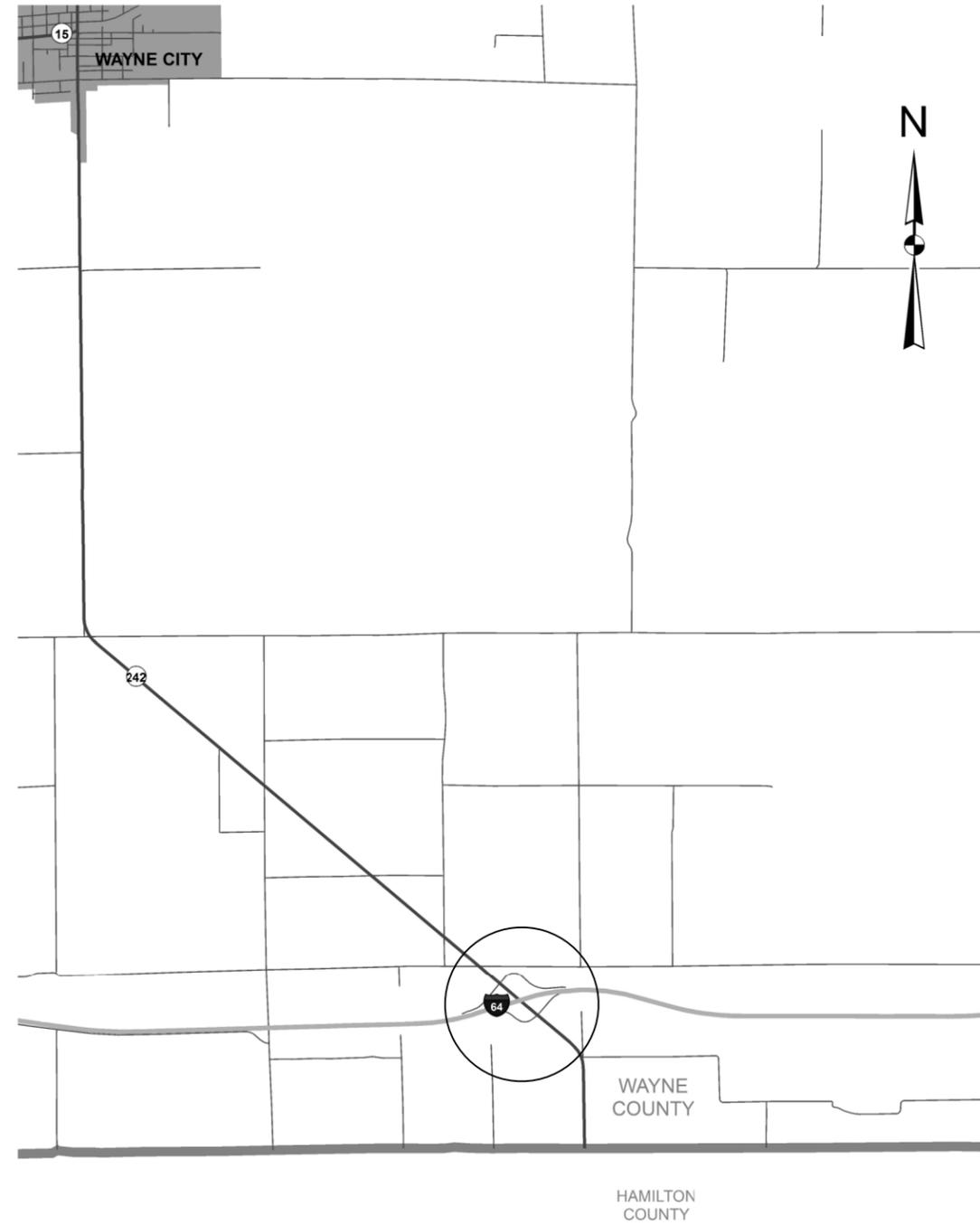
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VAR	D7HIGHWAY LIGHTING 2019-1	VARIOUS	24	10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74913	

LOCATION #7



DESCRIPTION OF WORK: RETROFIT 12 LIGHT POLES WITH NEW LED LUMINAIRES, OUTPUT DESIGNATION G

LOCATION #8



DESCRIPTION OF WORK: RETROFIT 18 LIGHT POLES WITH NEW LED LUMINAIRES, OUTPUT DESIGNATION G

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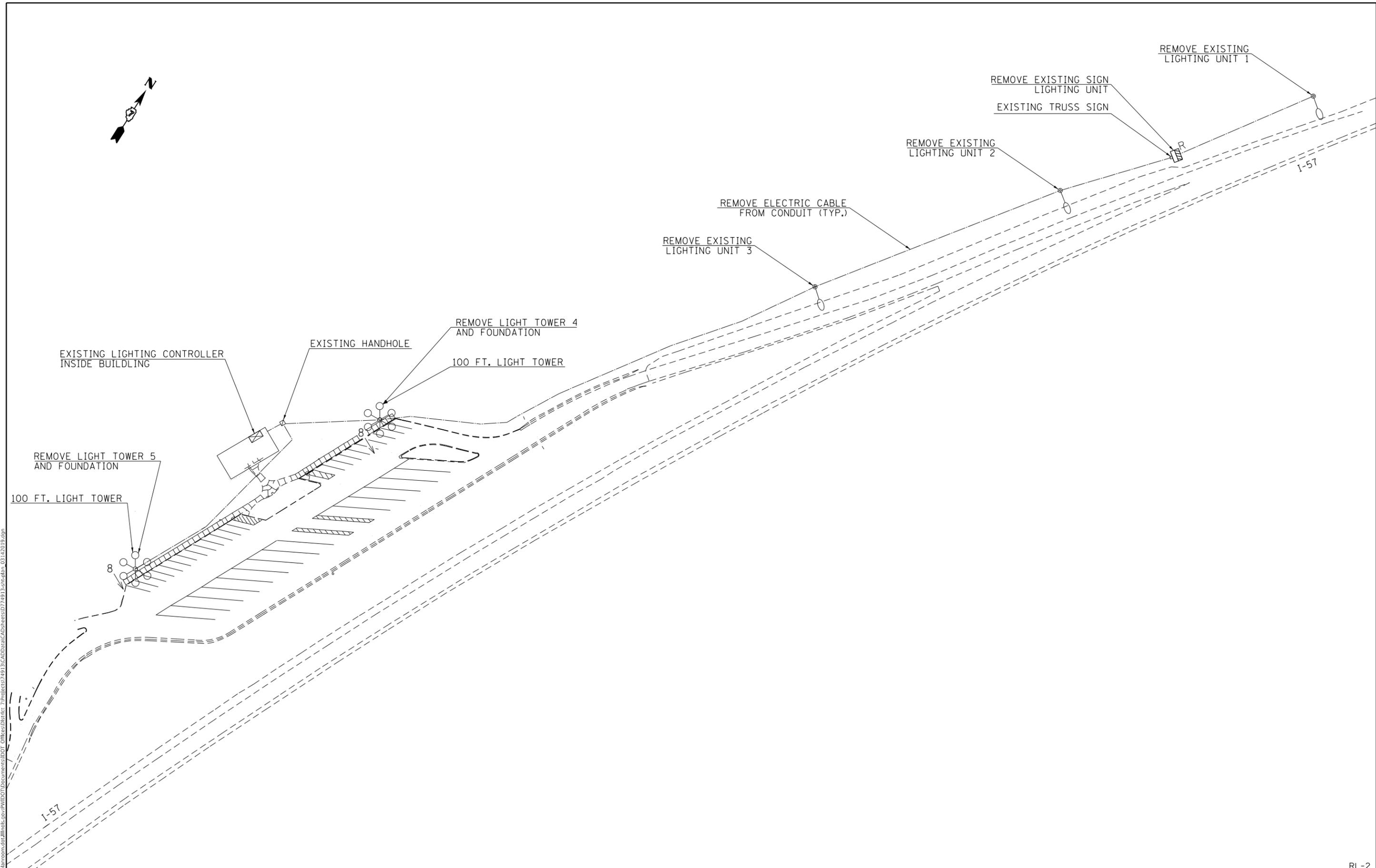
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION MAPS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7HIGHWAY LIGHTING 2019-1	VARIOUS	24	11
			CONTRACT NO. 74913	
ILLINOIS FED. AID PROJECT				



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

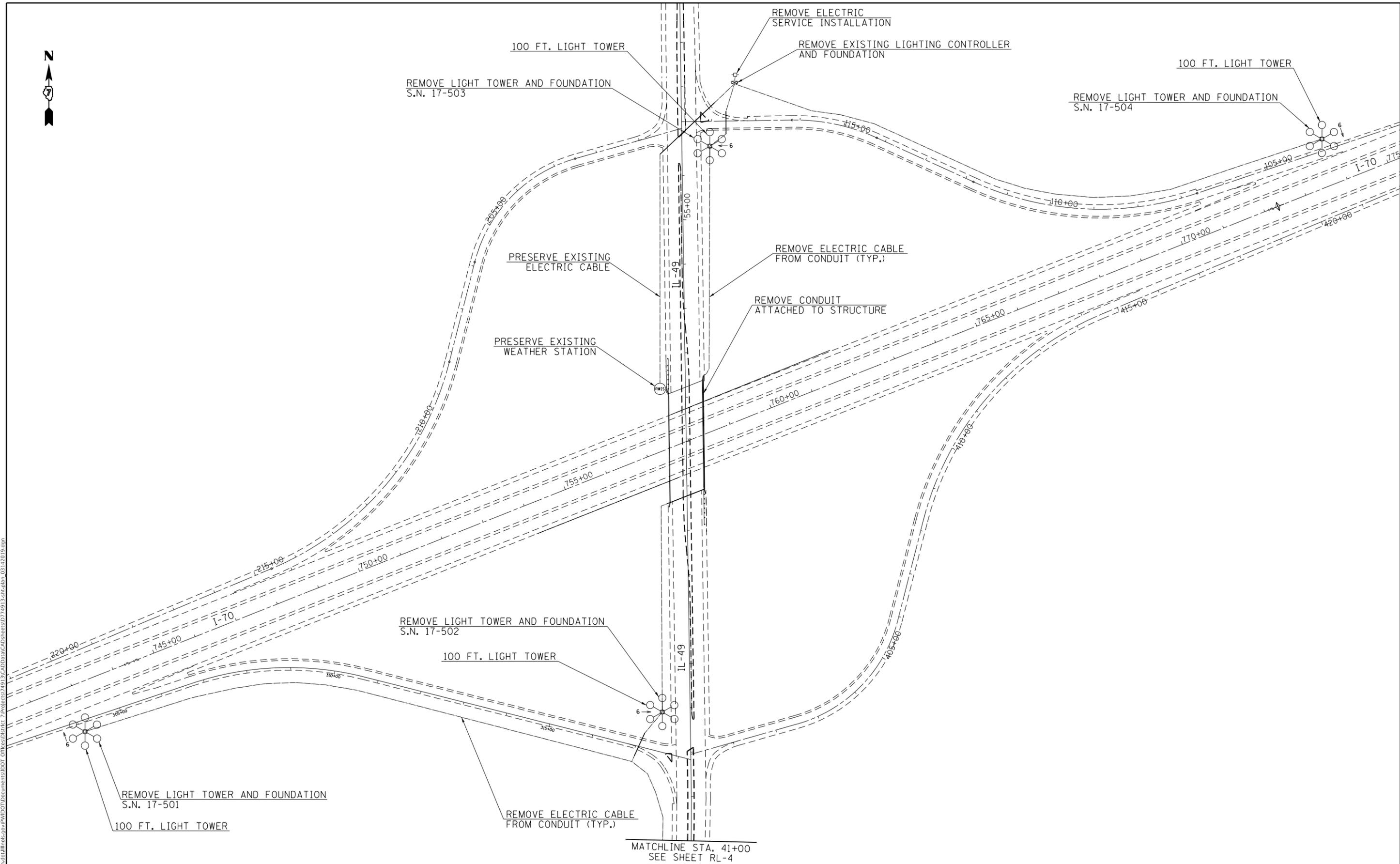
EXISTING LIGHTING REMOVAL PLAN
LOCATION #1 SB GREEN CREEK REST AREA I-57

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7HIGHWAY LIGHTING 2019-1	VARIOUS	24	13
			CONTRACT NO. 74913	
		ILLINOIS FED. AID PROJECT		

SCALE: SHEET OF SHEETS STA. TO STA.



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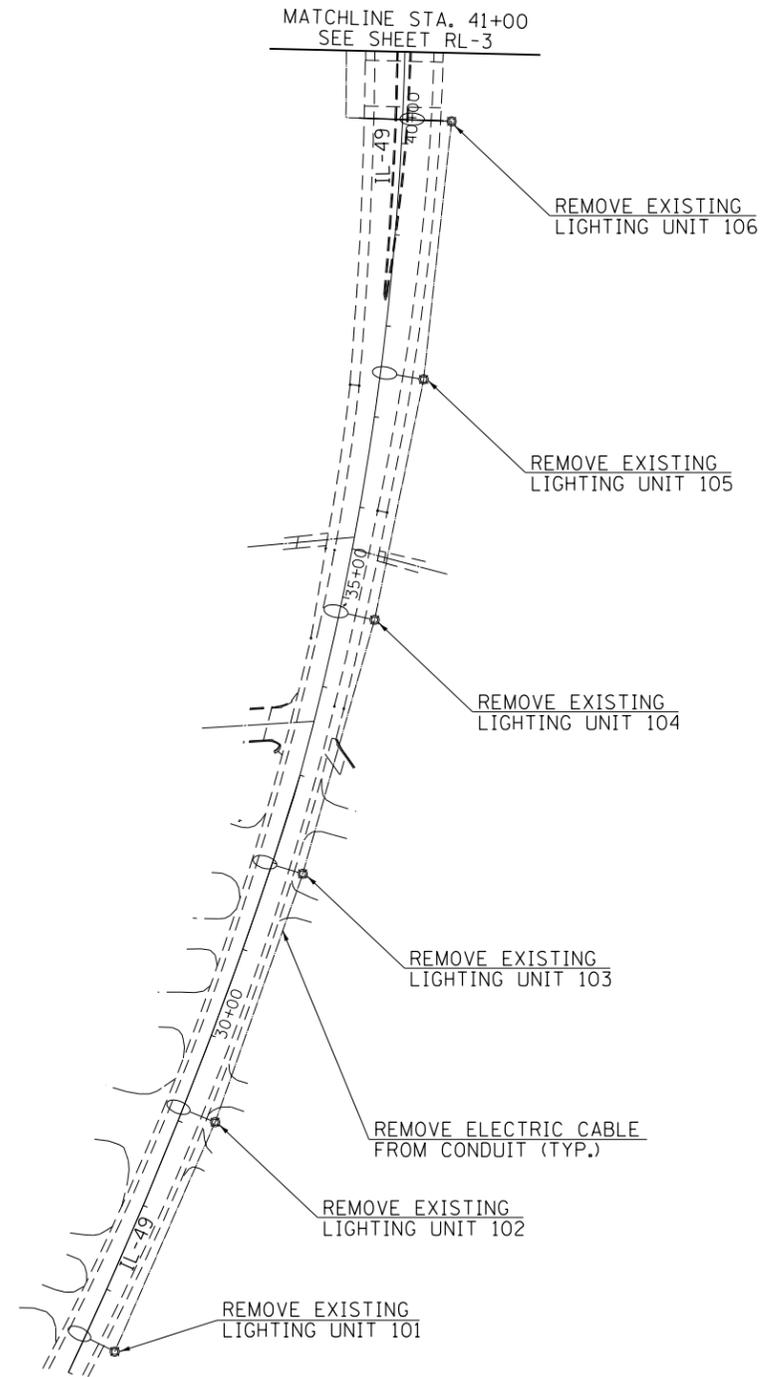
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING LIGHTING REMOVAL PLAN			
LOCATION #5 IL-49/I-70 INTERCHANGE			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7HIGHWAY LIGHTING 2019-1	VARIOUS	24	14
			CONTRACT NO. 74913	
		ILLINOIS	FED. AID PROJECT	



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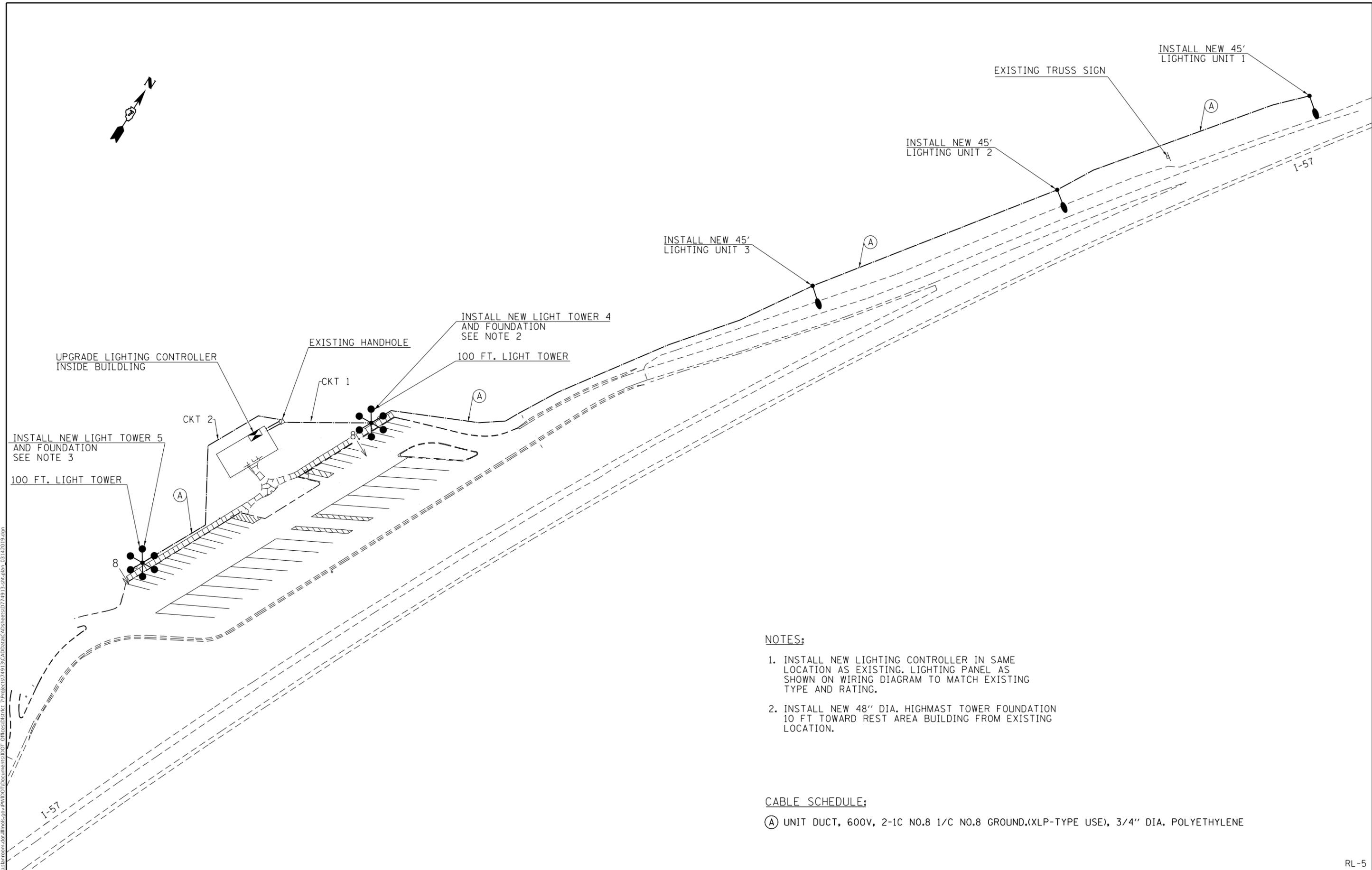
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PLOT DATE = 4/5/2019	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

EXISTING LIGHTING REMOVAL PLAN LOCATION #5 IL-49/1-70 INTERCHANGE			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 HIGHWAY LIGHTING 2019-	VARIOUS	24	15
			CONTRACT NO. 74913	
		ILLINOIS	FED. AID PROJECT	

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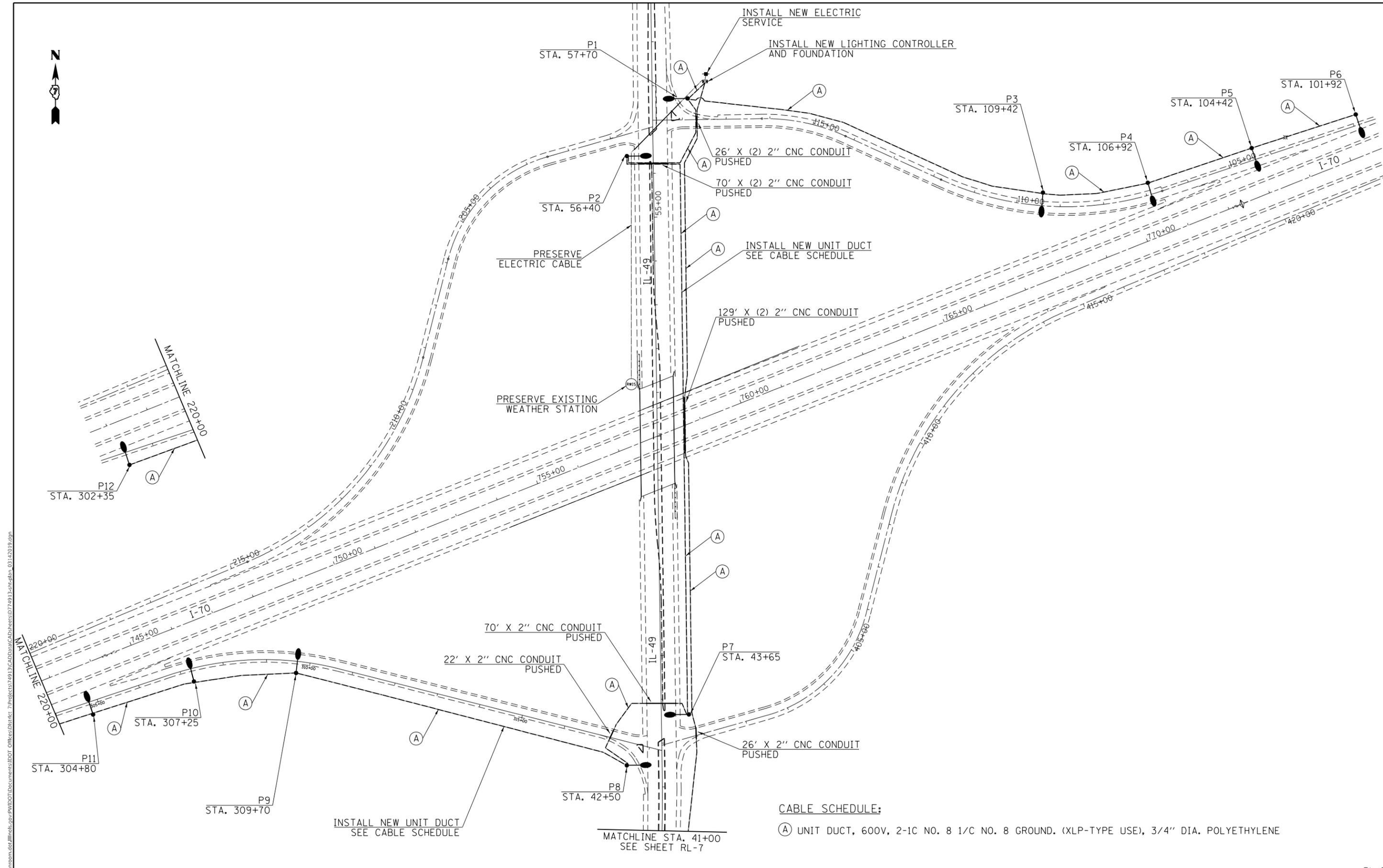
1. INSTALL NEW LIGHTING CONTROLLER IN SAME LOCATION AS EXISTING. LIGHTING PANEL AS SHOWN ON WIRING DIAGRAM TO MATCH EXISTING TYPE AND RATING.
2. INSTALL NEW 48" DIA. HIGHMAST TOWER FOUNDATION 10 FT TOWARD REST AREA BUILDING FROM EXISTING LOCATION.

CABLE SCHEDULE:

(A) UNIT DUCT, 600V, 2-1C NO.8 1/C NO.8 GROUND.(XLP-TYPE USE), 3/4" DIA. POLYETHYLENE

RL-5

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SCALE:					SHEET OF SHEETS STA. TO STA.			



CABLE SCHEDULE:
 (A) UNIT DUCT, 600V, 2-1C NO. 8 1/C NO. 8 GROUND. (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE

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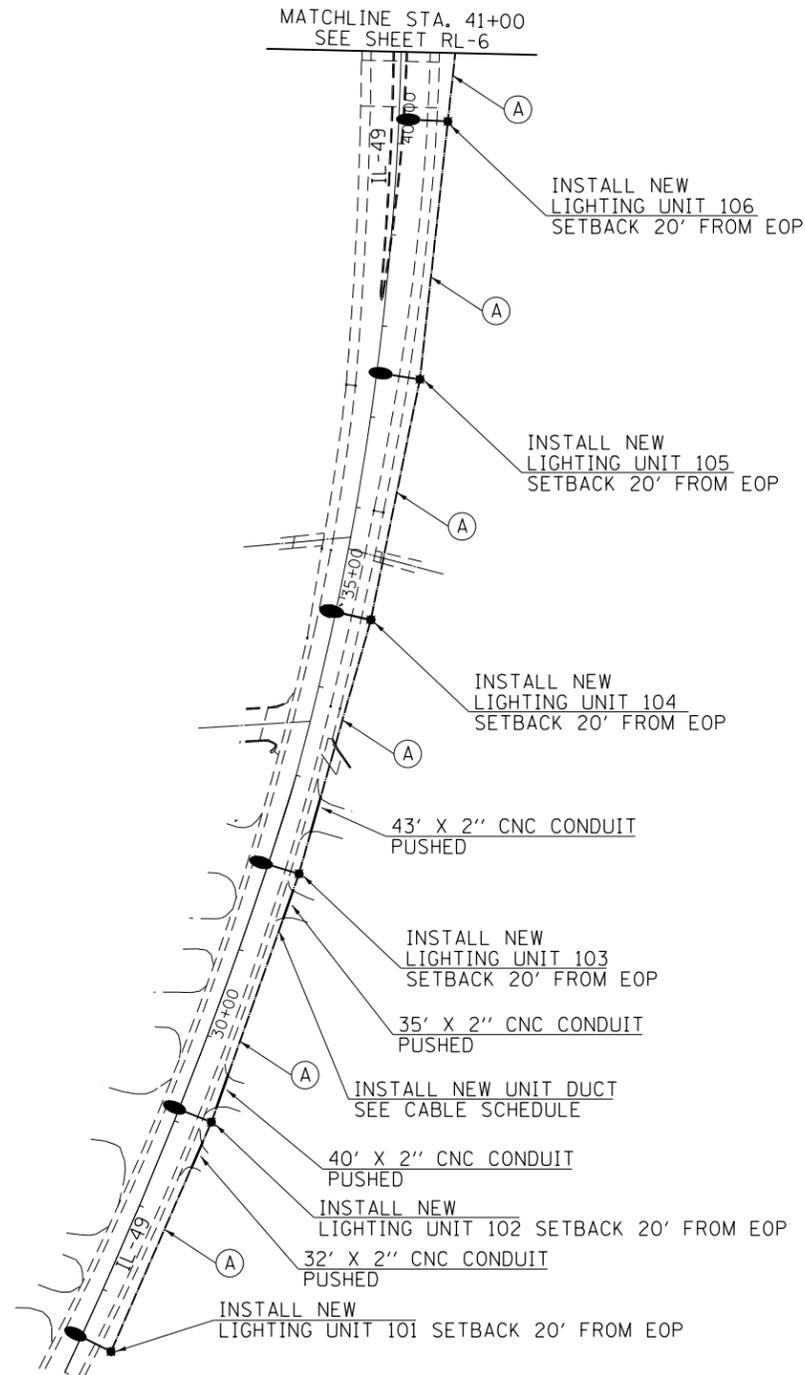
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PLOT DATE = 4/5/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED LIGHTING PLAN			
LOCATION 5 IL-49/70 INTERCHANGE			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR D7 HIGHWAY LIGHTING 2019-		VARIOUS	24	17
			CONTRACT NO. 74913	
		ILLINOIS	FED. AID PROJECT	

RL-6



(A) UNIT DUCT, 600V, 2-1C NO. 8 1/C NO. 8 GROUND. (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE

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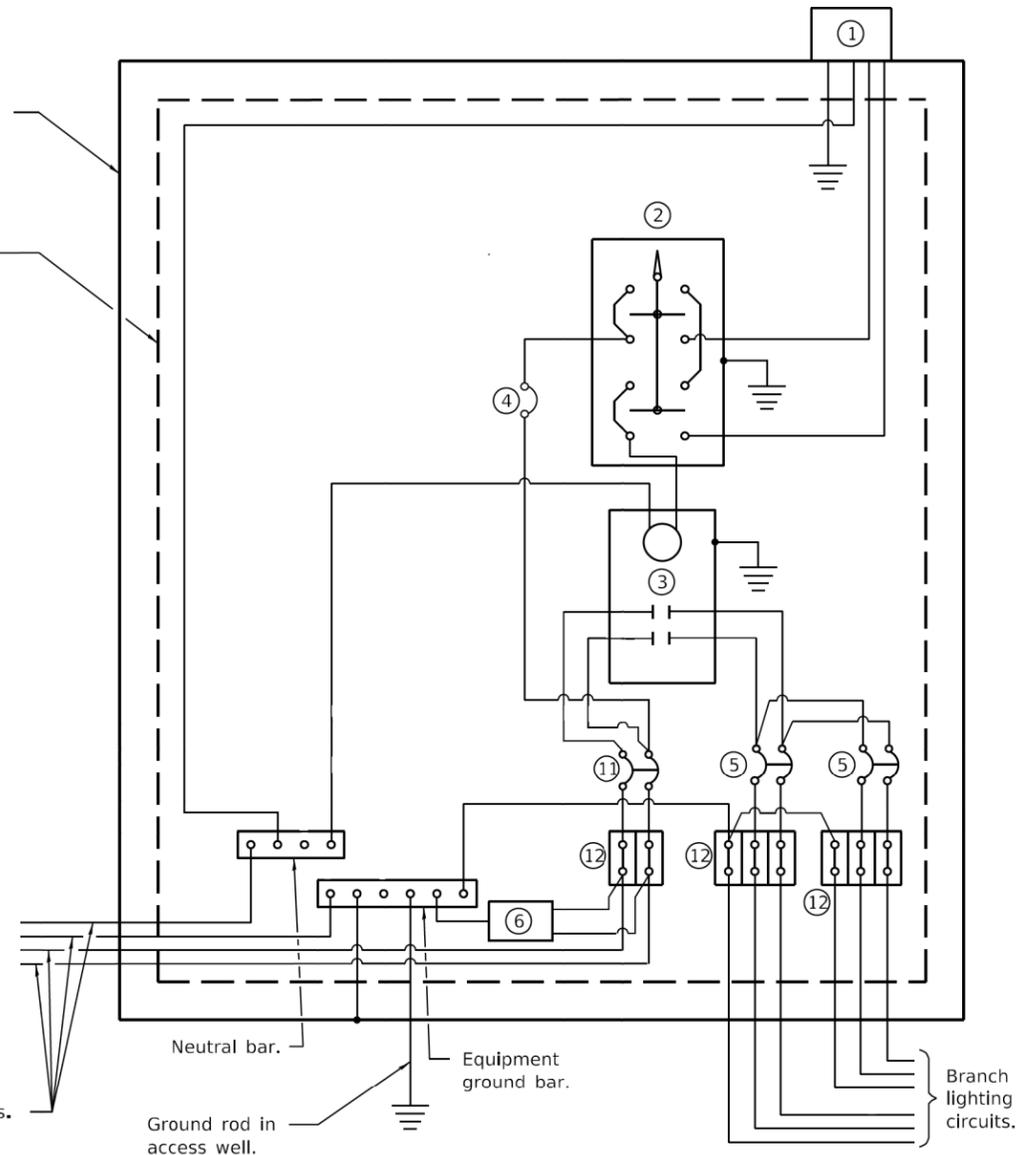
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PLOT DATE = 4/5/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN
LOCATION #5 IL-49/1-70 INTERCHANGE**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7 HIGHWAY LIGHTING 2019-	VARIOUS	24	18
			CONTRACT NO. 74913	
		ILLINOIS	FED. AID PROJECT	



Controller enclosure, wall mount, single door, 3R, W/ back panel dimensions: 30H x 24W x 10D
Insulated mounting board.

Feeder conductors.

Neutral bar.
Equipment ground bar.
Ground rod in access well.

Branch lighting circuits.

CONTROL SCHEMATIC

- ① Photocell with integral surge arrester. Installed outdoors on top of building.
- ② HAND-OFF-AUTO selector switch.
- ③ 100 amp*, electrically held contactor.
- ④ 15amp, 1 - pole circuit breaker
- ⑤ 20 amp or 30 amp, 2-pole circuit breakers (two spares required but not shown).
- ⑥ Surge arrester.
- ⑦ Not used.
- ⑧ Not used.
- ⑨ Not used.
- ⑩ Not used.
- ⑪ 100 amp*, 2-pole circuit breaker.
- ⑫ Terminal block sized for conductors as shown on plans.

* Size larger as needed.

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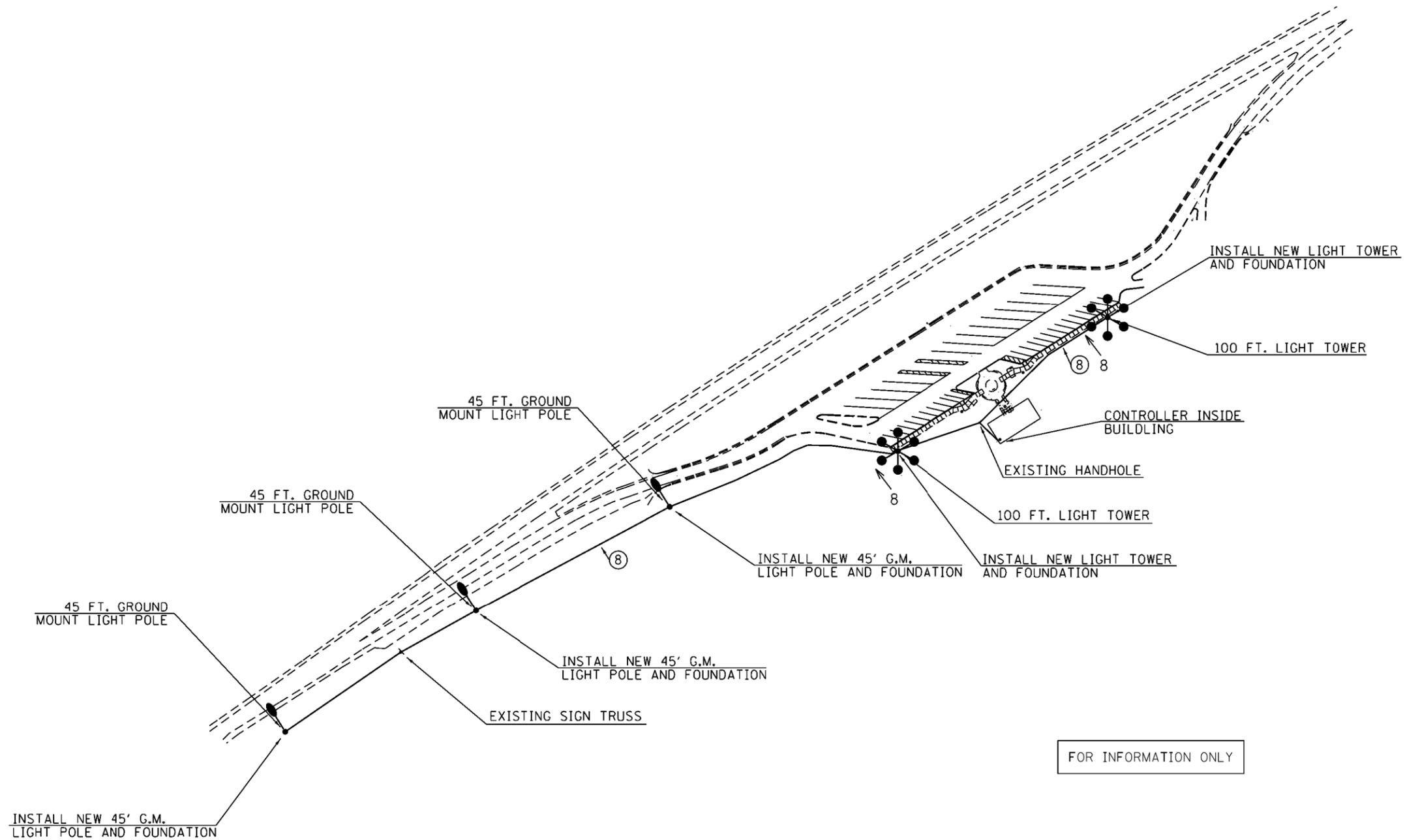
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SB GREEN CREEK REST AREA
LIGHTING CONTROLLER WIRING SCHEMATIC**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7HIGHWAY LIGHTING 2019-1	VARIOUS	24	20
			CONTRACT NO. 74913	
		ILLINOIS FED. AID PROJECT		



FOR INFORMATION ONLY

CABLE SCHEDULE:

⑧ UNIT DUCT, 600V, 2-1C NO.8 1/C NO.8 GROUND.(XLP-TYPE USE), 3/4" DIA. POLYETHYLENE

RL-10

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LIGHTING PLAN	
NB GREEN CREEK REST AREA I-57	
SCALE: _____	SHEET ____ OF ____ SHEETS
STA. _____	TO STA. _____

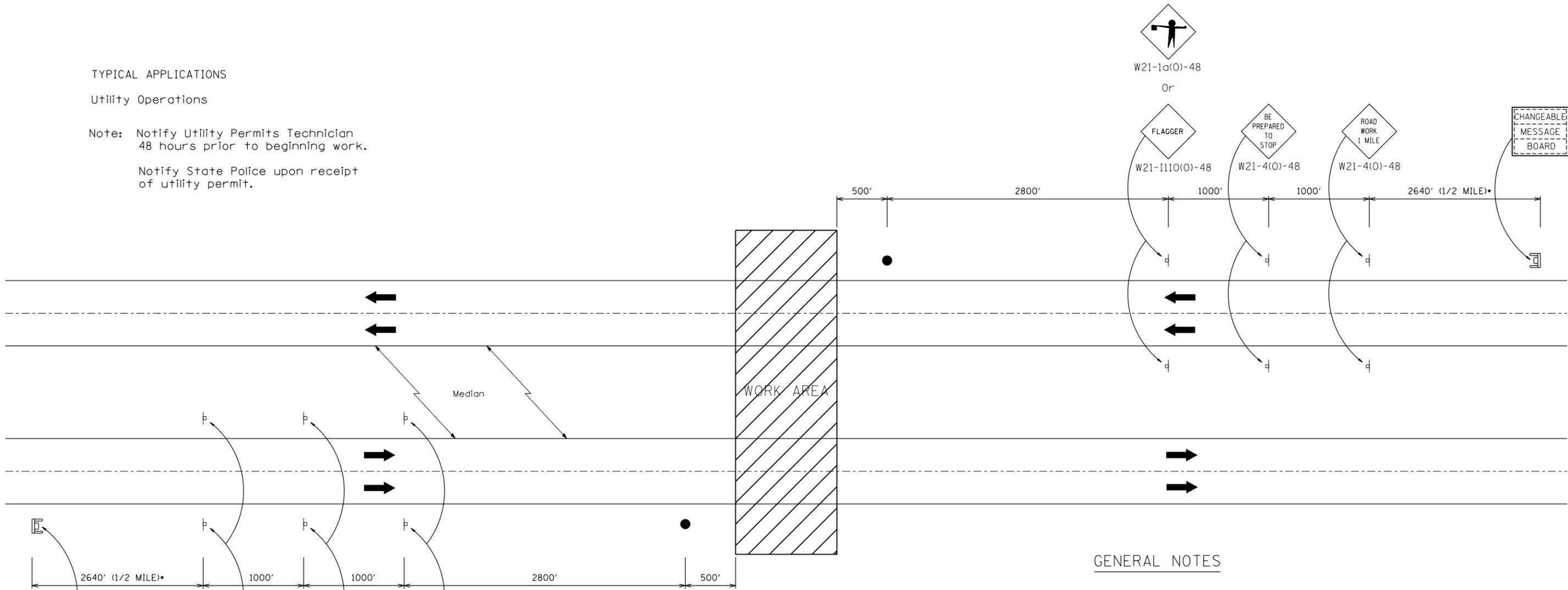
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VAR	D7HIGHWAY LIGHTING 2019-1	VARIOUS	24	21
			CONTRACT NO. 74913	
		ILLINOIS	FED. AID PROJECT	

TYPICAL APPLICATIONS

Utility Operations

Note: Notify Utility Permits Technician 48 hours prior to beginning work.

Notify State Police upon receipt of utility permit.



GENERAL NOTES

- Warning signs are to be removed when no work is being performed. Any unattended obstacle or excavation in the work area which in the opinion of the Engineer constitutes a hazard shall be protected by barricades at 50' centers, with flashing lights at night. If the hazard exceeds 100' in length, steady burning lights shall be substituted for flashing lights. When the distance is greater than 250', barricade spacing may be increased to 100'.
- When traffic will be required to stop beyond the 1 mile signs, additional "ROAD WORK AHEAD" and "BE PREPARED TO STOP" signs shall be installed at 1 mile intervals as directed by the Engineer.
- At least one State Trooper for each direction of traffic stopped shall be present before work is started.
- If the work operation requires that four or more work vehicles enter through traffic lane in one hour period, a flagger shall be provided.
- Signs mounted in the median may be omitted when the median is less than 10 feet wide.
- This standard also applies when work is being performed on a multilane undivided highway. Under these conditions the signs normally mounted in the median shall be omitted.
- Longitudinal dimensions may be adjusted to fit field conditions.

MULTILANE DIVIDED AND UNDIVIDED RURAL DAY OPERATIONS

WHERE AT ANY TIME, ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES WILL REQUIRE THE TEMPORARY STOPPAGE OF TRAFFIC NOT TO EXCEED A 10 MINUTE PERIOD.

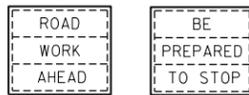
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• In advance of first warning sign.

SYMBOLS

- WORK AREA
- SIGN ON PORTABLE SUPPORT
- STATE TROOPER
- CHANGEABLE MESSAGE BOARD (WHEN SPECIFIED)

MESSAGES



USER NAME = steffemk	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 4/5/2019	CHECKED -	REVISIED -
	DATE -	REVISIED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

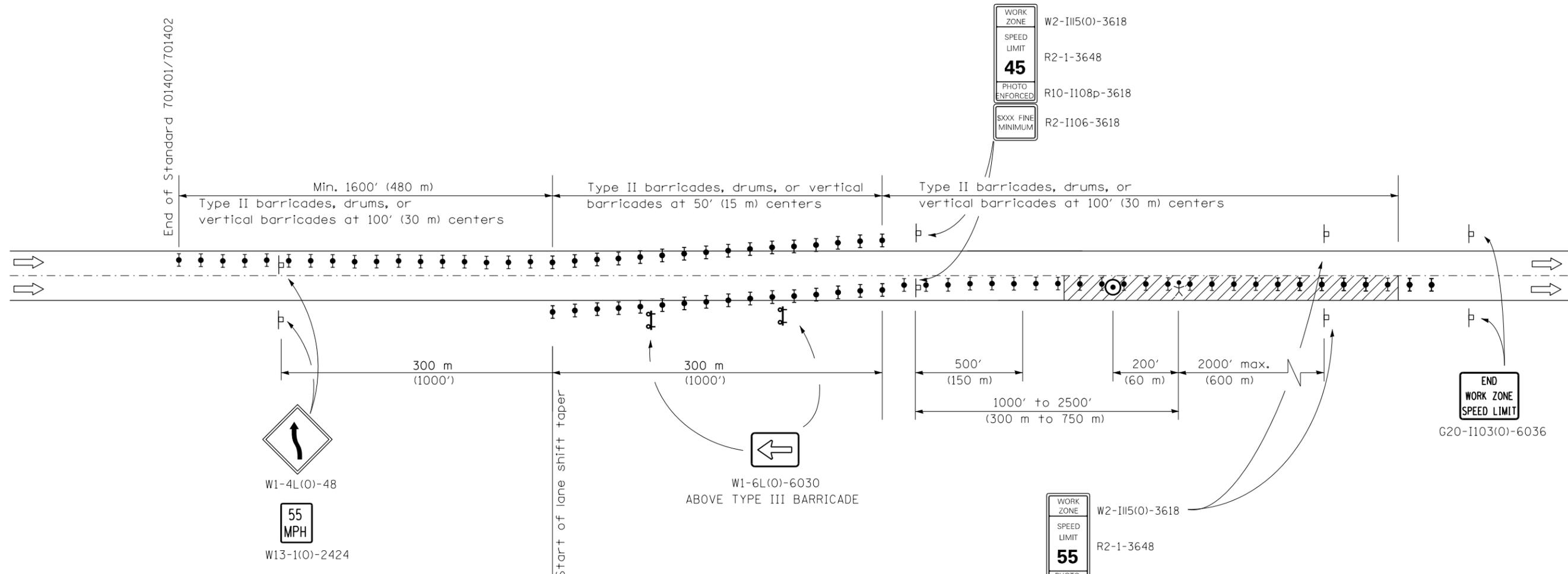
TRAFFIC CONTROL STANDARDS

SCALE: SHEET OF SHEETS STA. TO STA.

STANDARD 701101 (SPECIAL)

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7HIGHWAY LIGHTING 2019-1	VARIOUS	24	22
			CONTRACT NO. 74913	
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
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SYMBOLS

- Work area
- Worker
- Spotter
- Sign
- Type II barricade, drum, or vertical barricade with steady burn monodirectional light (lights only required at night)
- Type III barricade with flashing monodirectional lights (lights only required at night)

GENERAL NOTES

This Standard is to be used for the shift of traffic from one lane to an adjacent lane on a Freeway/Expressway.
 This Standard must always be used in combination with Standards 701400 and 701401/701402.
 This Standard also applies when the shift is required for the closure of the opposite lane. Under these conditions, the set up would be a mirror image to what is shown.
 A check barricade shall be placed in the middle of the closed lane and at the shoulder at 1000' (300 m) centers.
 All dimensions are in millimeters (inches) unless otherwise shown.

**SINGLE LANE SHIFT
 FREEWAY/EXPRESSWAY**
SPECIAL TC&P

USER NAME = steffemk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 4/5/2019	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL
 STANDARDS**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D7HIGHWAY LIGHTING 2019-1	VARIOUS	24	23
CONTRACT NO. 74913				
ILLINOIS		FED. AID PROJECT		

