

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7 HIGHWAY LIGHTING 2018	VARIOUS	20	1
ILLINOIS			CONTRACT NO. 74840	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

# PROPOSED HIGHWAY PLANS

FAI ROUTE 57 (I-57)  
SECTION D7 HIGHWAY LIGHTING 2018-1  
PROJECT NHPP-ZRJP(255)  
TYPE of IMPROVEMENT - LIGHT TOWER  
REMOVAL AND REPLACEMENT  
EFFINGHAM AND COLES COUNTY

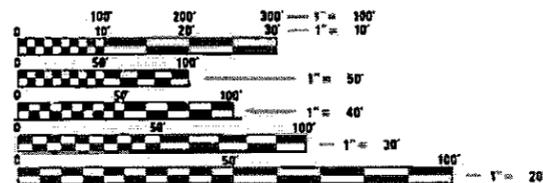
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LOCATION #1  
NORTHBOUND  
GREEN CREEK  
REST AREA

LOCATION #2  
I-57 & US 45  
INTERCHANGE

LOCATION #3  
I-57 & IL 16  
INTERCHANGE

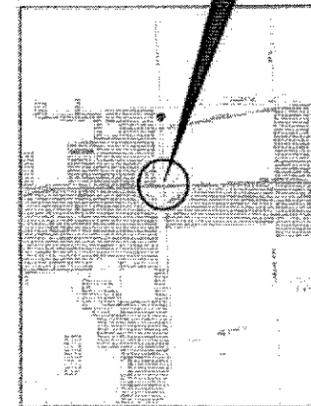
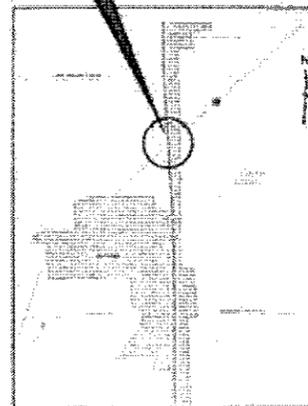
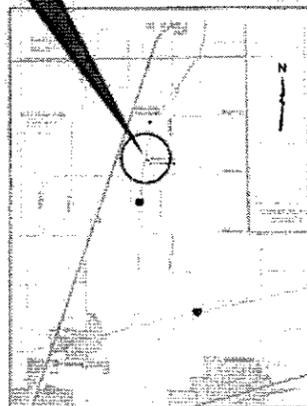


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-8123  
OR 811

PROJECT ENGINEER - DEWAYNE SEACHRIST  
PROJECT MANAGER - RYAN WEI

CONTRACT NO. 74840



GROSS LENGTH = 0 FT. = 0 MILE  
NET LENGTH = 0 FT. = 0 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 20 20 18

Jeffrey M. Smith  
REGIONAL ENGINEER

May 11 20 18  
as E.A. Etk  
ENGINEER OF DESIGN AND ENVIRONMENT

Paul P. Chif  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

## INDEX OF SHEETS

SHEET NO.	ITEM
1	COVER SHEET
2	INDEX OF SHEETS, GENERAL NOTES, & HIGHWAY STANDARDS
3-4	SUMMARY OF QUANTITIES
5-8	TYPICAL SECTIONS
9-17	LIGHTING SHEETS
18-20	SOIL BORINGS

## LIST OF ILLINOIS DOT HIGHWAY STANDARDS

STD. NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5M) TO 24" (600 MM) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5M) AWAY
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-11	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
821101-02	LUMINAIRE WIRING IN POLE
825011-03	LIGHTING CONTROLLER. PEDESTAL MOUNTED. 240V
830006-04	LIGHT POLE ALUMINUM DAVIT ARM
835001-01	LIGHT TOWER
836001-03	LIGHT POLE FOUNDATION
837001-04	LIGHT TOWER FOUNDATION
838001-01	BREAKAWAY DEVICES

## GENERAL NOTES

SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

THERE ARE NO TREES SCHEDULED TO BE REMOVED ON THIS PROJECT. IF TREES ARE TO BE REMOVED FOR WHATEVER REASON THEY WILL NOT BE ALLOWED TO BE REMOVED BETWEEN APRIL 1ST AND SEPTEMBER 30TH OF ANY GIVEN YEAR.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MOWING, BRUSH AND SHRUB REMOVAL, AND SHALL DISPOSE OF ALL REMOVED ITEMS OFF OF THE JOB SITE, THE COST OF THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR THE REMOVAL OR REPLACEMENT OF LIGHT TOWERS.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES (100 MILLIMETERS) IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE LIGHTING PAY ITEMS.

ALL EXCAVATED MATERIAL, WHICH INCLUDES DIGGING OR GRADING OF ANY SOIL OR FILL MATERIAL, WITH THE EXCEPTION OF AGGREGATE FILLS. MUST BE INCORPORATED WITHIN THE IDOT RIGHT OF WAY DUE TO ENVIRONMENTAL DOCUMENTATION REQUIREMENTS.

LIGHT TOWERS SHALL BE GALVANIZED STEEL AS SPECIFIED BY ARTICLE 1069.08 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

LIGHT POLES SHALL BE ALUMINUM AS SPECIFIED BY ARTICLE 1069.02 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

REMOVAL AND REPLACEMENT OF EXISTING SIDEWALK, PAVEMENT, AND ISLANDS DAMAGED DUE TO CONTRACTOR OPERATIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE REMOVAL OF LIGHT TOWER FOUNDATIONS.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF REMOVE ELECTRIC CABLE FROM CONDUIT.

THE REMOVAL OF TRUSS SIGN LUMINAIRE IS INCLUDED, AND SHALL BE PAID FOR IN THE QUANTITY "REMOVAL OF LIGHTING LUMINAIRE, NO SALVAGE".

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES AT HIS /HER OWN EXPENSE IF REQUIRED. THE CONTRACTOR SHALL ALSO BE LIABLE FOR ANY DAMAGE TO IDOT FACILITIES RESULTING FROM INACCURATE LOCATING.

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES AND INDEX OF SHEETS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7HIGHWAY LIGHTING 2018-1	VARIOUS	20	2
CONTRACT NO. 74840				
ILLINOIS FED. AID PROJECT				

90% FED  
10% STATE URBAN RURAL

90% FED  
10% STATE URBAN RURAL

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
				0021 COLES CO	0021 EFFINGHAM CO
67100100	MOBILIZATION	L SUM	1	0.5	0.5
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	1	
	701456				
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD	L SUM	1	1	
	701601				
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	1	
81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	75		75
81028770	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 3" DIA.	FOOT	570	570	
81603000	UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	1710		1710
81603025	UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	1600	1600	

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
				0021 COLES CO	0021 EFFINGHAM CO
81603070	UNIT DUCT, 600V, 2-1C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	2130	2130	
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
83502400	LIGHT TOWER, 100 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 6	EACH	2	2	
83502500	LIGHT TOWER, 100 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8	EACH	2		2
83600300	LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	20		20
83700300	LIGHT TOWER FOUNDATION, 48" DIAMETER	FOOT	90	45	45
83800650	BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	3		3
84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	3		3
84200804	REMOVAL OF POLE FOUNDATION	EACH	3		3
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1	1	

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

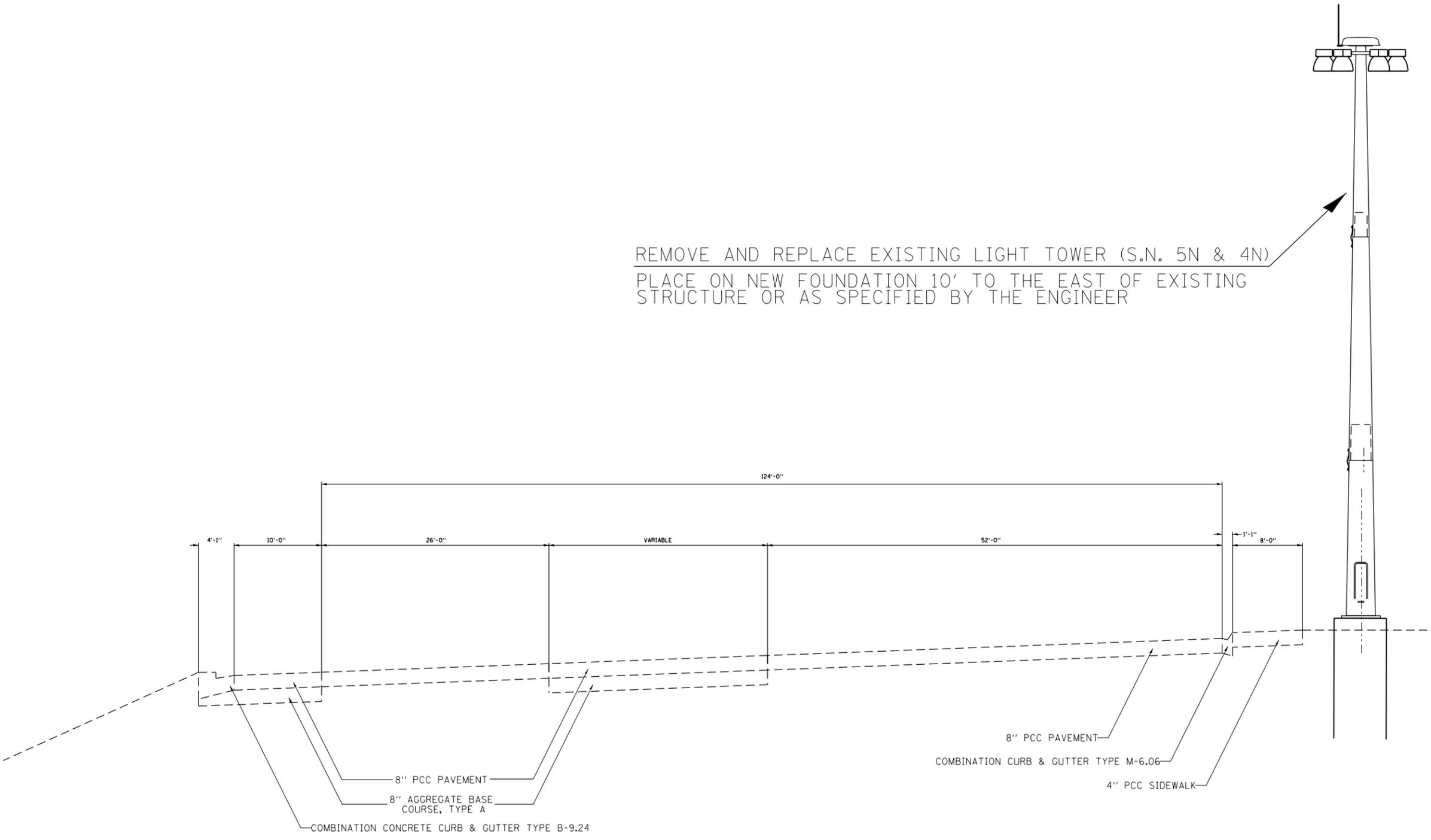
SUMMARY OF QUANTITIES

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	DHIGHWAY LIGHTING 2018-	VARIOUS	20	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74840	



REMOVE AND REPLACE EXISTING LIGHT TOWER (S.N. 5N & 4N)  
 PLACE ON NEW FOUNDATION 10' TO THE EAST OF EXISTING  
 STRUCTURE OR AS SPECIFIED BY THE ENGINEER



TYPICAL SECTION FOR GREEN CREEK REST AREA  
 LOOKING NORTH AT GREEN CREEK REST AREA

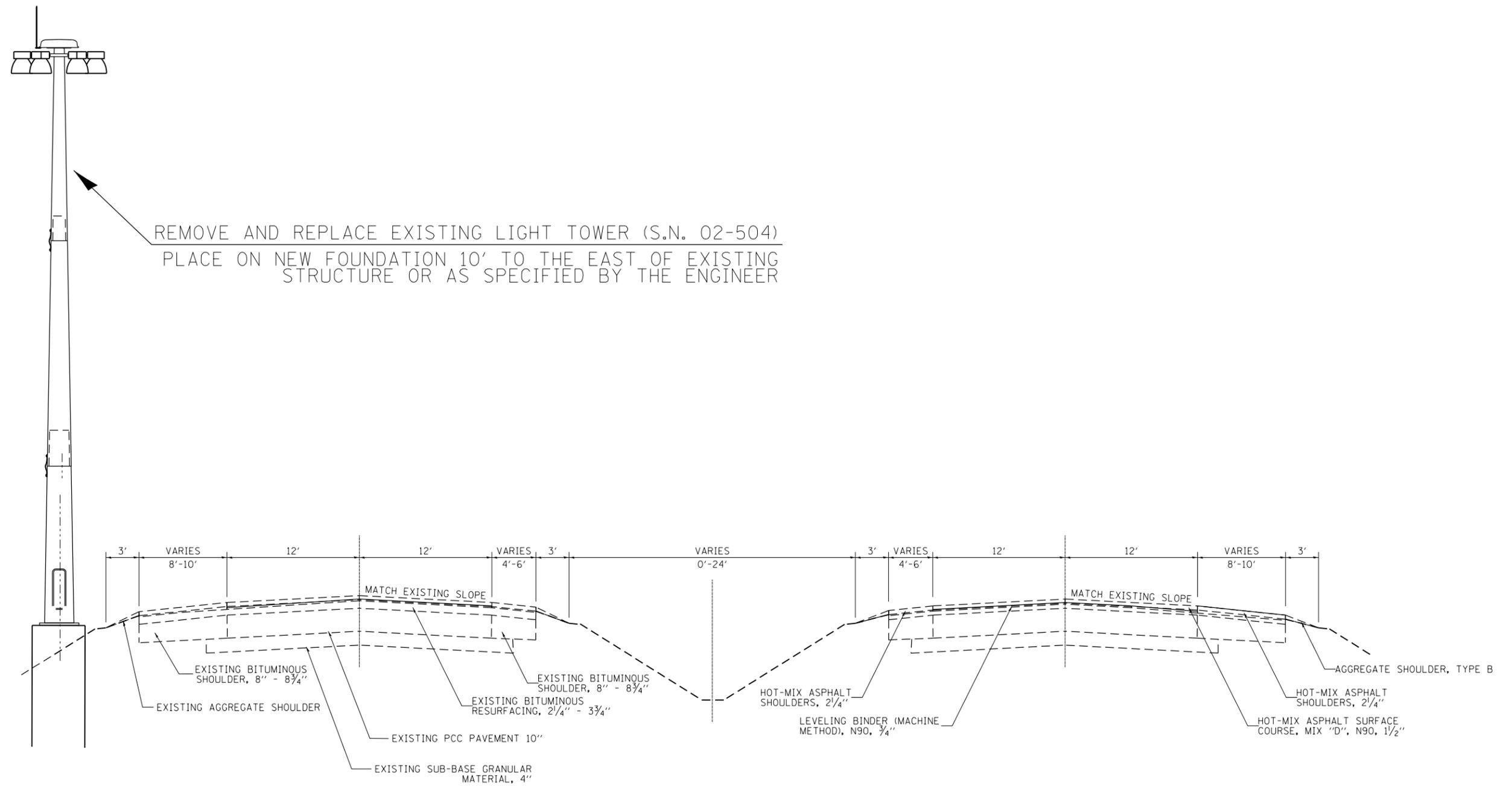
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS        NB GREEN CREEK REST AREA</b>			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7HIGHWAY LIGHTING 2018-1	VARIOUS	20	5
CONTRACT NO. 74840				
ILLINOIS FED. AID PROJECT				



TYPICAL SECTION FOR US 45  
LOOKING SOUTH FOR US 45 (LOOKING NORTH SIMILAR)

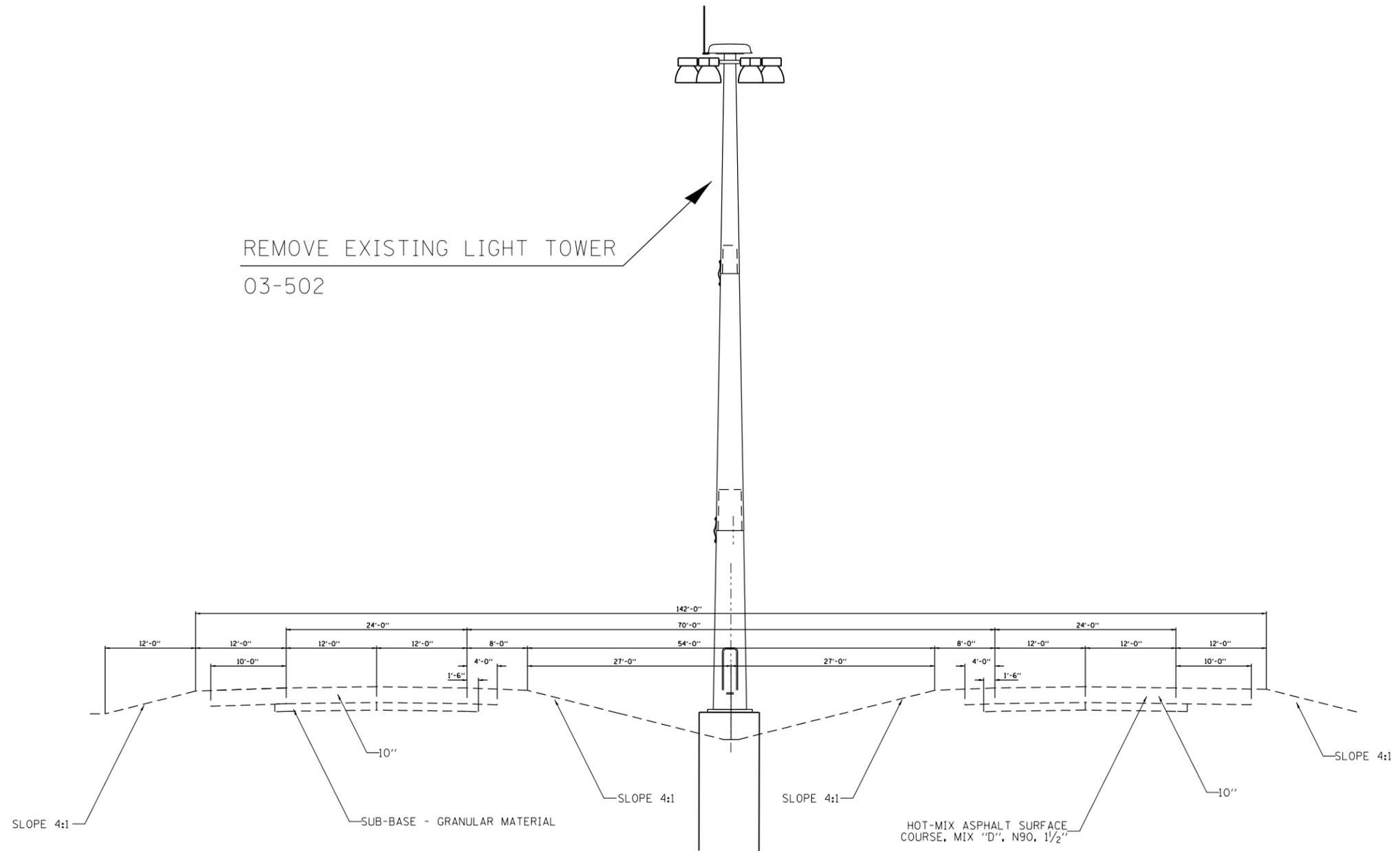
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

<b>TYPICAL SECTIONS</b>			
<b>US 45 / I-57 INTERCHANGE</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7HIGHWAY LIGHTING 2018-1	VARIOUS	20	6
CONTRACT NO. 74840				
ILLINOIS FED. AID PROJECT				



TYPICAL SECTION FOR I-57  
LOOKING NORTH FOR I-57

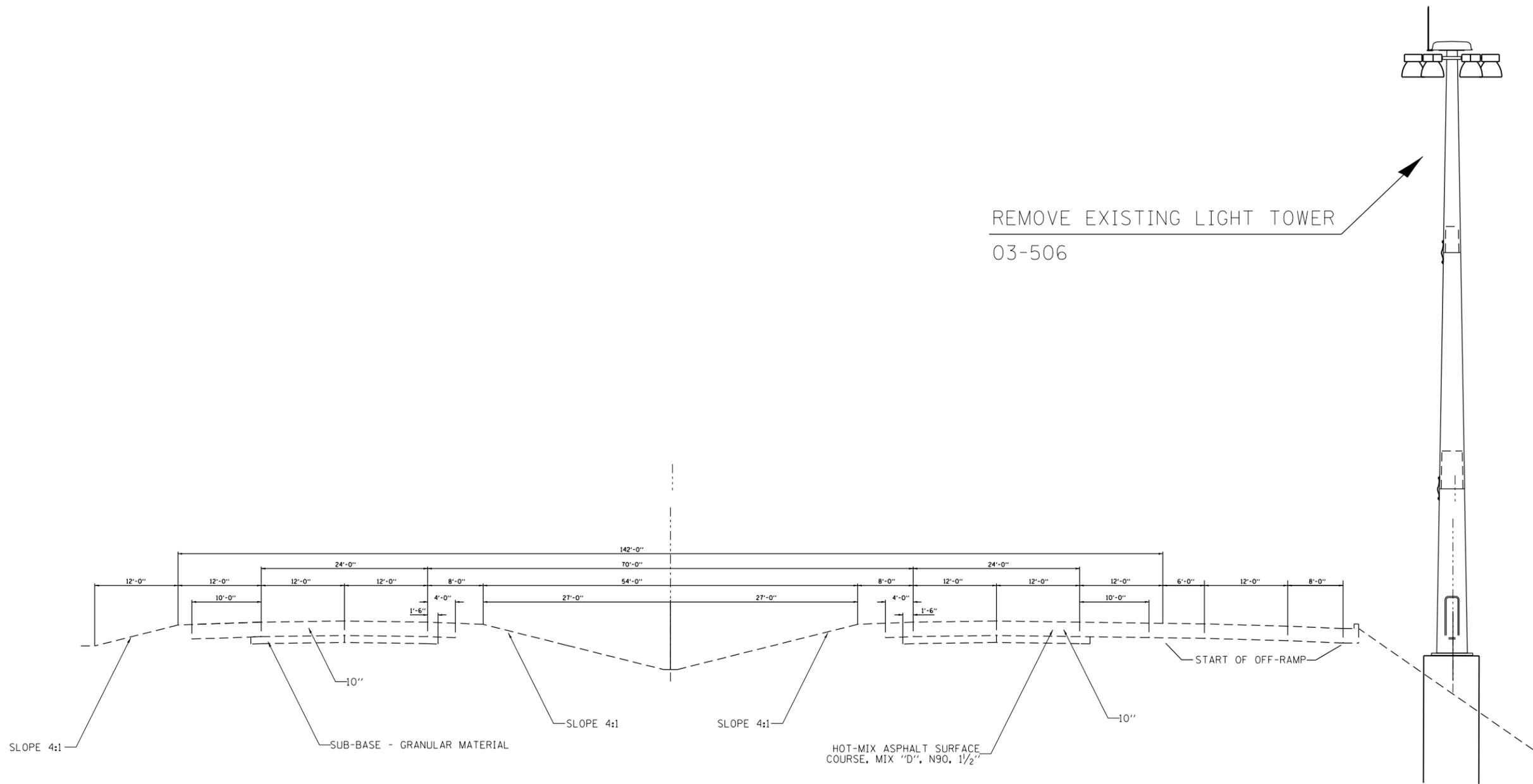
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

<b>TYPICAL SECTIONS IL 16 / I-57 INTERCHANGE</b>				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7HIGHWAY LIGHTING 2018-1	VARIOUS	20	7
			CONTRACT NO. 74840	
		ILLINOIS	FED. AID PROJECT	



TYPICAL SECTION FOR I-57  
 LOOKING SOUTH FOR I-57/IL 16 INTERCHANGE (S.N. 03-506)  
 LOOKING NORTH FOR I-57/US 45 INTERCHANGE (S.N. 02-502) SIMILAR

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS IL 16 / I-57 INTERCHANGE			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7HIGHWAY LIGHTING 2018-1	VARIOUS	20	8
			CONTRACT NO. 74840	
ILLINOIS FED. AID PROJECT				

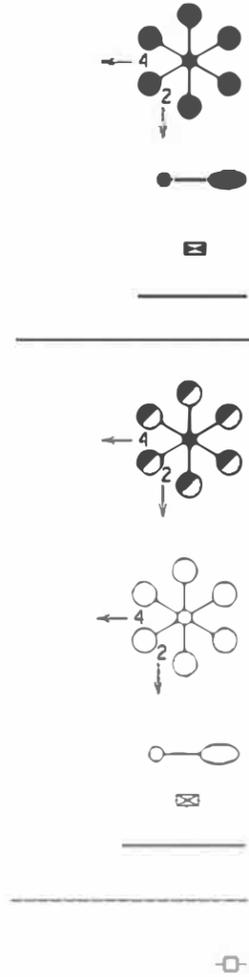
**NOTES:**

1. CONTRACTOR TO EXERCISE CAUTION WHEN INSTALLING FOUNDATIONS AND LIGHT POLES TO AVOID DAMAGE TO EXISTING AERIAL POWER CABLES AND ENSURE ADEQUATE HORIZONTAL CLEARANCE FROM OVERHEAD POWER LINES.
2. 2" AND 3" DIA. CNC. TO BE BORED UNDER PAVEMENT.
3. THE CONTRACTOR SHALL SET CONVENTIONAL POLES 30' BEHIND EDGE OF PAVEMENT. HMLT TOWERS SHALL MAINTAIN EXISTING SETBACKS.
4. NO POLE TO BE INSTALLED IN THE FLOWLINE OF DITCH. POLE SETBACK TO BE ADJUSTED IF NECESSARY AS DIRECTED BY THE ENGINEER.
5. EXISTING TOWERS TO REMAIN SHALL BE MODIFIED AS SHOWN ON "MODIFY LIGHT TOWER CONTROL PANEL" DETAIL RL-7. PROPOSED TOWERS SHALL BE PROVIDED AND INSTALLED AS SHOWN ON "LIGHT TOWER" DETAIL RL-8.
6. CONTRACTOR SHALL VERIFY TOWER HEIGHTS ARE 100 FOOT MOUNTING HEIGHT. DUE TO FAA RESTRICTIONS PROPOSED TOWER HEIGHTS MUST NOT EXCEED 100 FOOT MOUNTING HEIGHT.

**INDEX OF SHEETS**

- RL-1 GENERAL NOTES, SCHEDULES, AND INDEX OF SHEETS
- RL-2 EXISTING LIGHTING REMOVAL PLAN
- RL-3 EXISTING LIGHTING REMOVAL PLAN
- RL-4 EXISTING LIGHTING REMOVAL PLAN
- RL-5 PROPOSED LIGHTING PLAN
- RL-6 PROPOSED LIGHTING PLAN
- RL-7 MODIFY LIGHT TOWER CONTROL PANEL DETAIL
- RL-8 LIGHT TOWER
- RL-9 WIRING DIAGRAMS

**LEGEND**



PROPOSED HIGH MAST TOWER, GALVANIZED STEEL, 100' M.H. WITH (6 OR 8) LUMINAIRES ON 48" DIAMETER CONCRETE FOUNDATION. LUMINAIRE AIMING AS SHOWN WITH ARROW AND NUMBER.

PROPOSED LIGHTING UNIT. ALUMINUM, 45' M.H. WITH 15' DAVIT ARM, LED HORIZONTAL MOUNT LUMINAIRE, BREAKAWAY TRANSFORMER BASE ON 30" DIAMETER CONCRETE FOUNDATION.

PROPOSED PEDESTAL MOUNTED LIGHTING CONTROLLER, 240V, SINGLE PHASE.

PROPOSED COILABLE NONMETALLIC CONDUIT, SIZE AND LENGTH AS NOTED.

PROPOSED UNIT DUCT, SIZE AS NOTED.

EXISTING HIGH MAST TOWER TO REMAIN. REMOVE EXISTING LUMINAIRES AND REPLACE WITH LED HIGH MAST FIXTURES. MODIFY EXISTING LOWERING SYSTEM TO OPERATE ON 240V SINGLE PHASE AS SHOWN ON DETAIL U.N.O.

REMOVE EXISTING HIGH MAST TOWER, 100' M.H. WITH (6 OR 8) LUMINAIRES.

EXISTING LIGHTING UNIT AND FOUNDATION TO BE REMOVED.

EXISTING LIGHTING CONTROLLER 480V SINGLE PHASE TO BE REMOVED.

EXISTING CONDUIT TO BE ABANDONED IN PLACE.

EXISTING WIRE IN UNIT DUCT. EXISTING CABLE SHALL BE REMOVED AND CONDUIT ABANDONED IN PLACE.

EXISTING ELECTRIC UTILITY POWER POLE.

**LIGHTING SCHEDULE OF QUANTITIES**

PAY ITEM	DESCRIPTION	UNIT	NB GREEN CREEK REST AREA QUANTITIES	I-57 / US 45 INTERCHANGE QUANTITIES	I-57 / IL 18 INTERCHANGE QUANTITIES	TOTAL QUANTITY
80400100	ELECTRIC SERVICE INSTALLATION	EACH		1		1
81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	75			75
81028770	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 3" DIA.	FOOT		570		570
81603000	UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	1710			1710
81603025	UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.4 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT		1600		1600
81603070	UNIT DUCT, 600V, 2-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT		2130		2130
82500330	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH		1		1
83009600	LIGHT POLE, ALUMINUM, 45 FT. M.H., 15 FT. MAST ARM	EACH	3			3
83502400	LIGHT TOWER, 100 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 6	EACH		2		2
83502500	LIGHT TOWER, 100 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8	EACH	2			2
83600300	LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	20			20
83700300	LIGHT TOWER FOUNDATION, 48" DIAMETER	FOOT	45	45		90
83800650	BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	3			3
84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	3			3
84200804	REMOVAL OF POLE FOUNDATION	EACH	3			3
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	1725	3730		5455
X1400113	LUMINAIRE, LED, HORIZONTAL MOUNT, MEDIUM WATTAGE	EACH	3			3
X1400267	REMOVAL OF LIGHTING LUMINAIRE, NO SALVAGE	EACH	17	24	10	51
X1400275	MODIFY EXISTING LIGHT TOWER CONTROL PANEL	EACH		2		2
X1400276	LUMINAIRE, LED, HIGH MAST, HORIZONTAL MOUNT	EACH	16	24		40
X8420502	REMOVAL OF LIGHT TOWER, NO SALVAGE	EACH	2	2	2	6
X8420510	REMOVAL OF TOWER FOUNDATION	EACH	2	2		4

RL-1

MODEL: Defaut  
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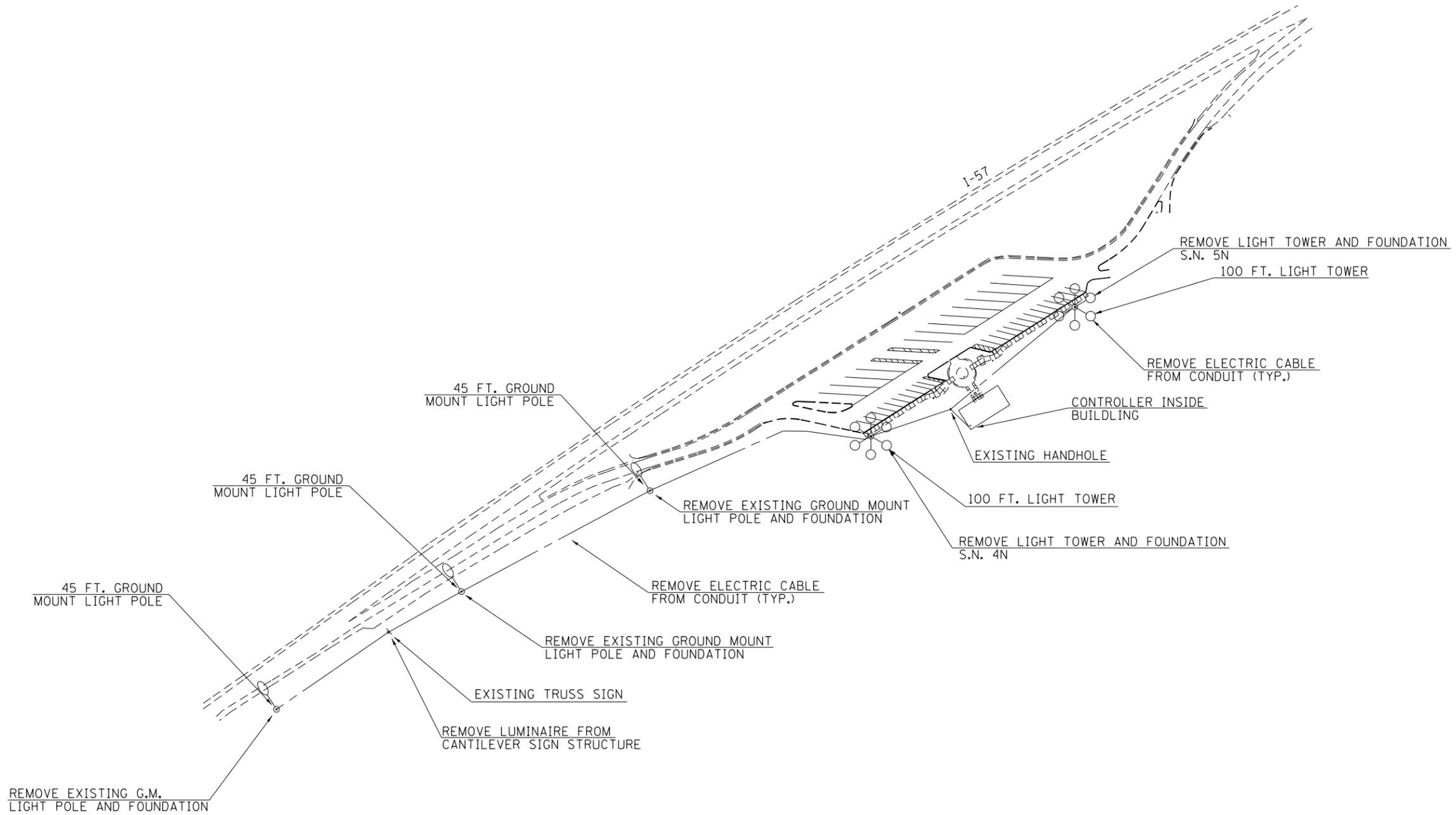
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, SCHEDULES, AND  
INDEX OF SHEETS**

SCALE: SHEET 08 SHEETS 57A TO 57A

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	I-57 HIGHWAY LIGHTING 2018	VARIOUS	20	9
CONTRACT NO. 74840				
ILLINOIS FED. AID PROJECT				



RL-2

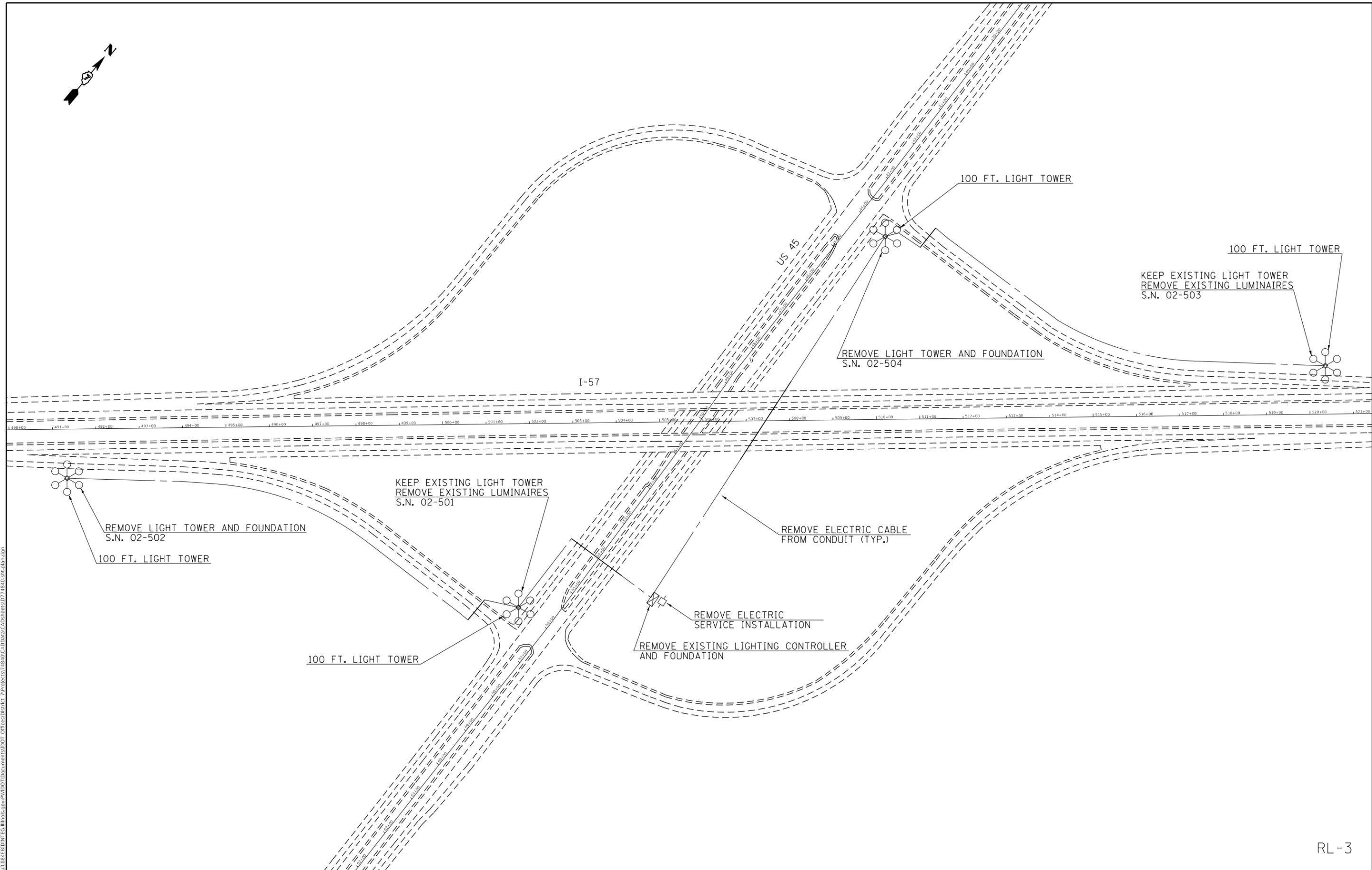
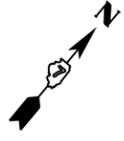
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>EXISTING LIGHTING REMOVAL</b> <b>NB GREEN CREEK REST AREA I-57</b>			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7HIGHWAY LIGHTING 2018-1	VARIOUS	20	10
			CONTRACT NO. 74840	
		ILLINOIS	FED. AID PROJECT	

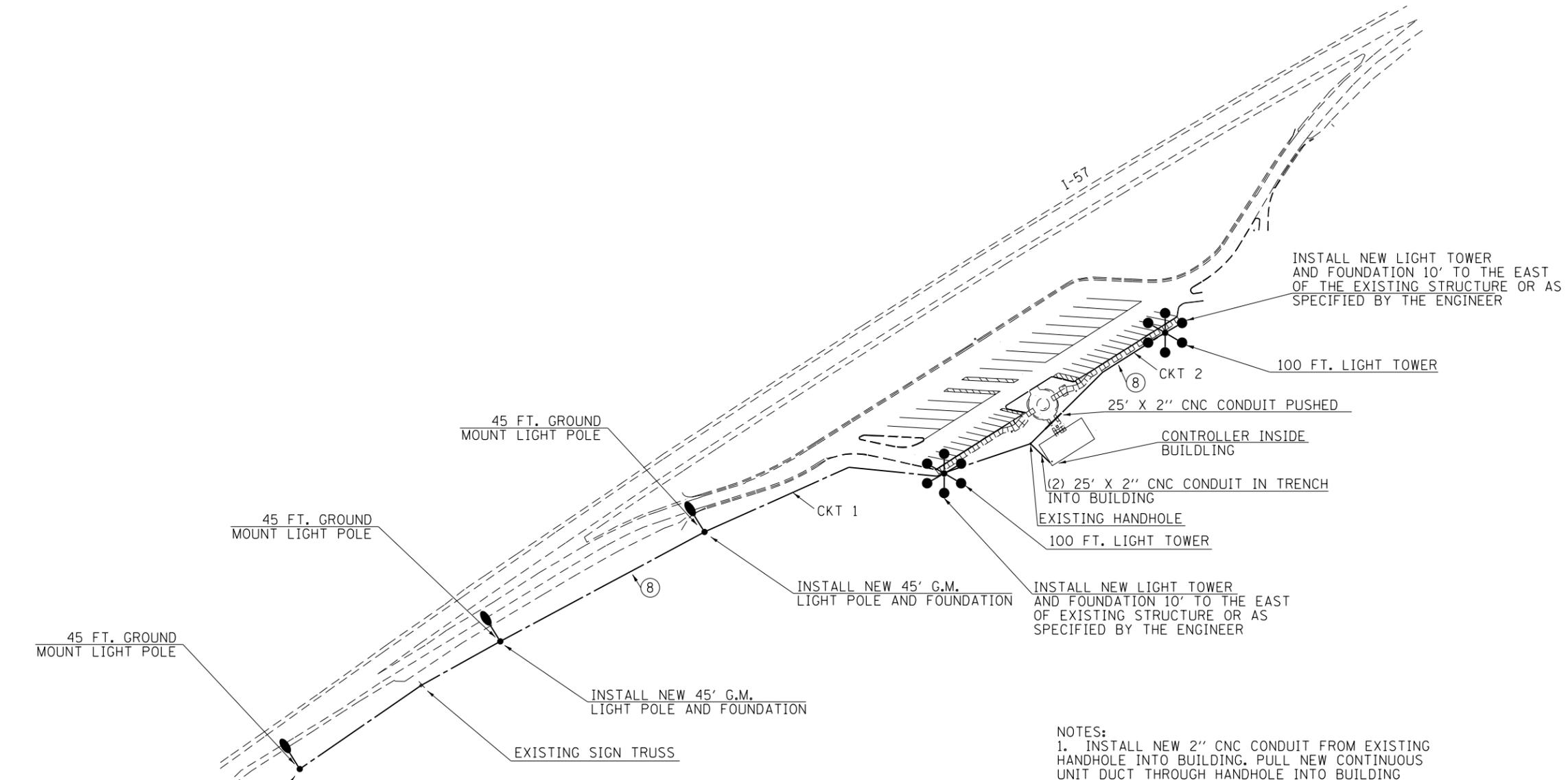


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RL-3

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	DRAWN -	REVISED -		57	D7HIGHWAY LIGHTING 2018-1	VARIOUS	20	11				
	CHECKED -	REVISED -		CONTRACT NO. 74840				ILLINOIS	FED. AID PROJECT			
DATE -	REVISED -	SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.				





INSTALL NEW LIGHT TOWER AND FOUNDATION 10' TO THE EAST OF THE EXISTING STRUCTURE OR AS SPECIFIED BY THE ENGINEER

100 FT. LIGHT TOWER

CKT 2

25' X 2" CNC CONDUIT PUSHED

CONTROLLER INSIDE BUILDING

(2) 25' X 2" CNC CONDUIT IN TRENCH INTO BUILDING EXISTING HANDHOLE

100 FT. LIGHT TOWER

INSTALL NEW 45' G.M. LIGHT POLE AND FOUNDATION

INSTALL NEW LIGHT TOWER AND FOUNDATION 10' TO THE EAST OF EXISTING STRUCTURE OR AS SPECIFIED BY THE ENGINEER

NOTES:  
 1. INSTALL NEW 2" CNC CONDUIT FROM EXISTING HANDHOLE INTO BUILDING. PULL NEW CONTINUOUS UNIT DUCT THROUGH HANDHOLE INTO BUILDING INTO EXISTING CONDUIT IN BUILDING, TERMINATE AT EXISTING LIGHTING PANEL. NO SPLICING SHALL BE ALLOWED IN HANDHOLE.  
 2. INSTALL NEW CIRCUIT BREAKERS IN EXISTING LIGHTING PANEL AS SHOWN ON WIRING DIAGRAM TO MATCH EXISTING TYPE AND RATING. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF "UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE."

CABLE SCHEDULE:

⑧ 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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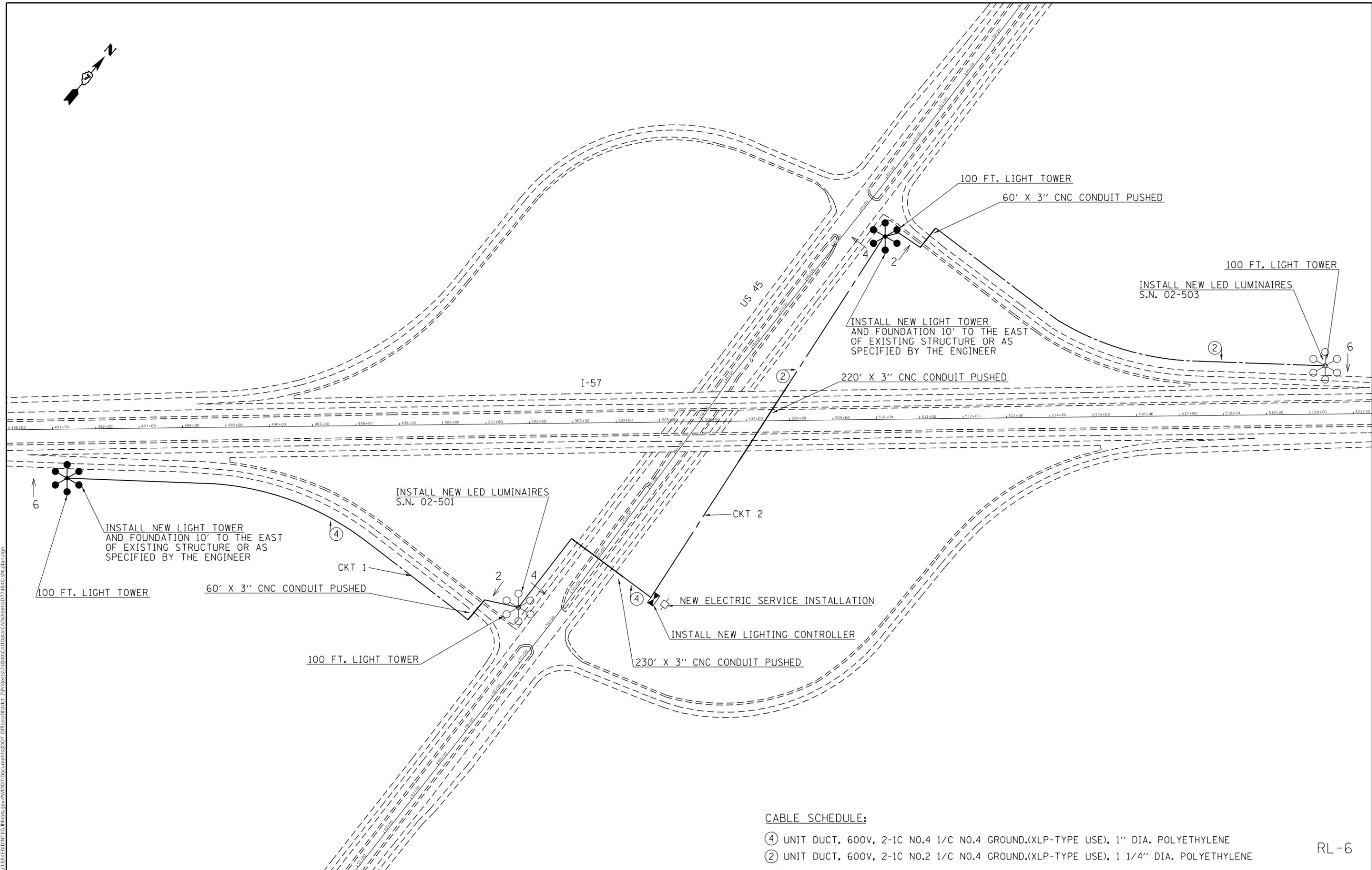
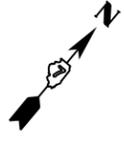
INSTALL NEW 45' G.M. LIGHT POLE AND FOUNDATION

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PLOT DATE = 3/28/2018	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

<b>PROPOSED LIGHTING PLAN</b>			
<b>NB GREEN CREEK REST AREA I-57</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7HIGHWAY LIGHTING 2018-1	VARIOUS	20	13
			CONTRACT NO. 74840	
		ILLINOIS	FED. AID PROJECT	



**CABLE SCHEDULE:**

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

RL-6

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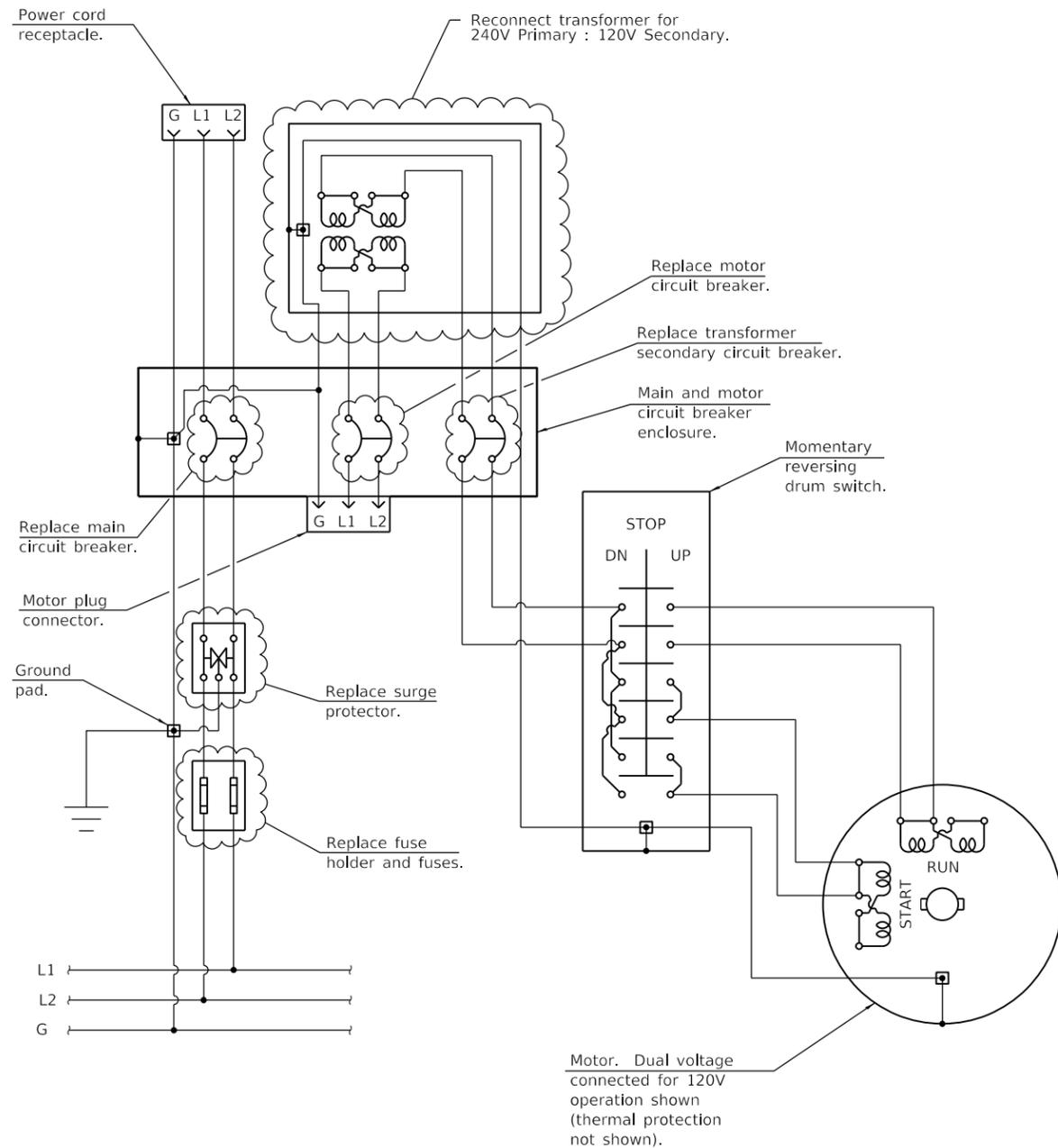
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PLOT DATE = 3/28/2018	DATE -	REVISED -

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

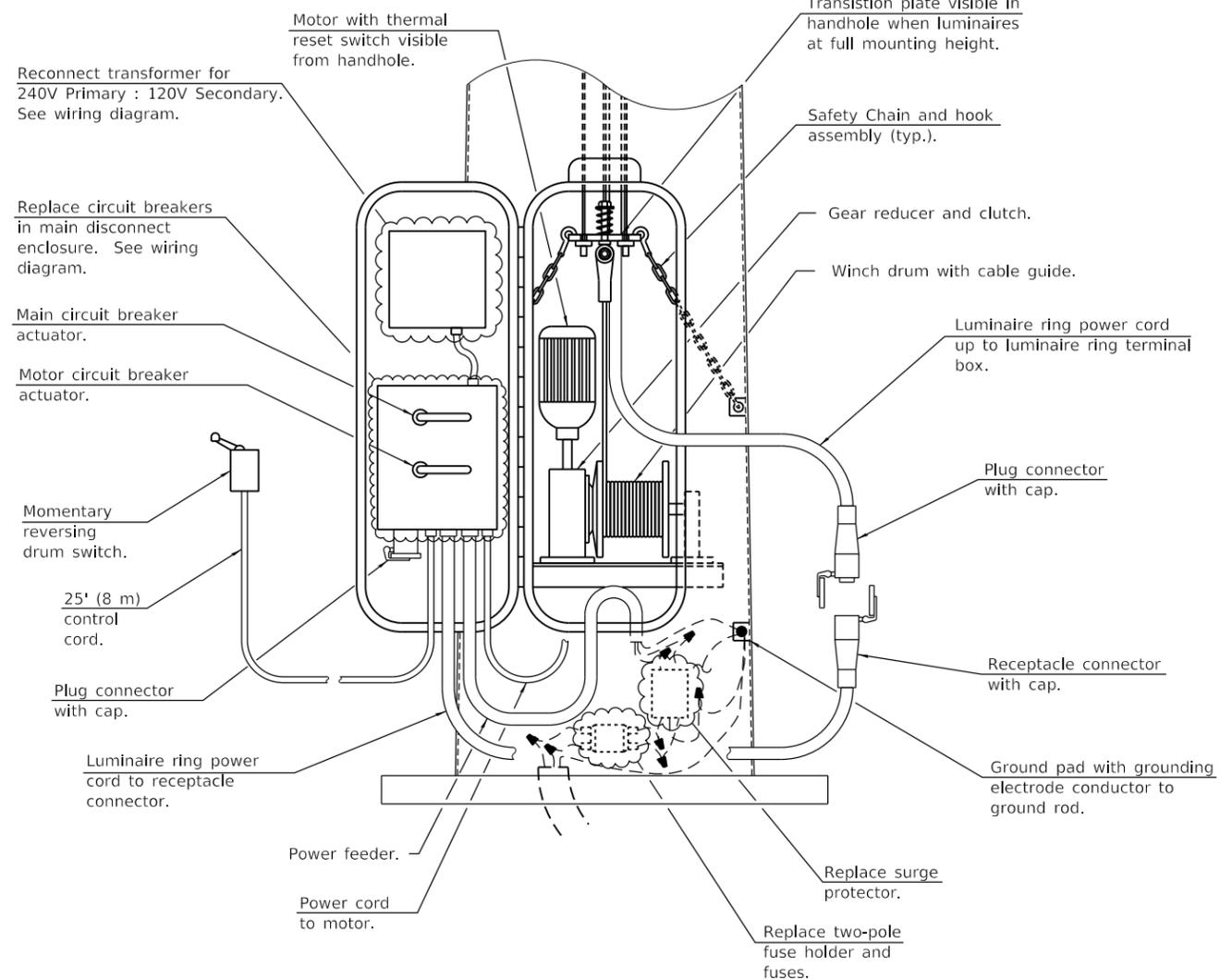
**PROPOSED LIGHTING PLAN**  
**EXIT 184 US 45 & I-57**

SCALE: SHEET OF SHEETS STA. TO STA.

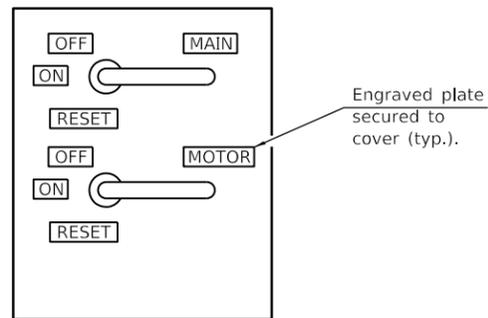
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57	D7HIGHWAY LIGHTING 2018-1	VARIOUS	20	14
			CONTRACT NO. 74840	
		ILLINOIS FED. AID PROJECT		



**LOWERING SYSTEM WIRING DIAGRAM**



**LOWERING AND SUPPORT MECHANISM**



**DISCONNECT SCHEDULE**

**MODIFY LIGHT TOWER CONTROL PANEL**

**DETAIL RL-7**

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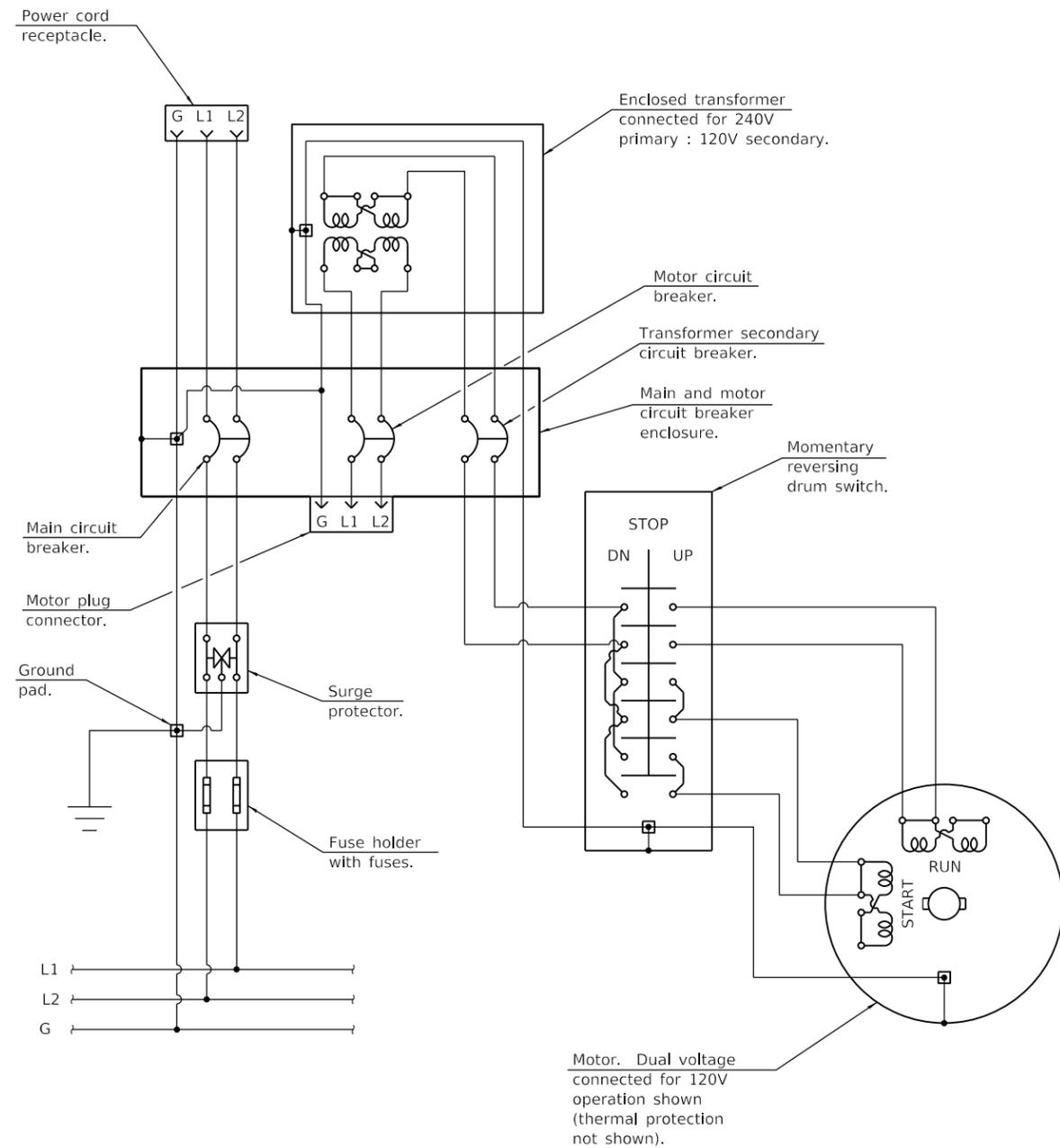
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	DATE -	REVISIED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

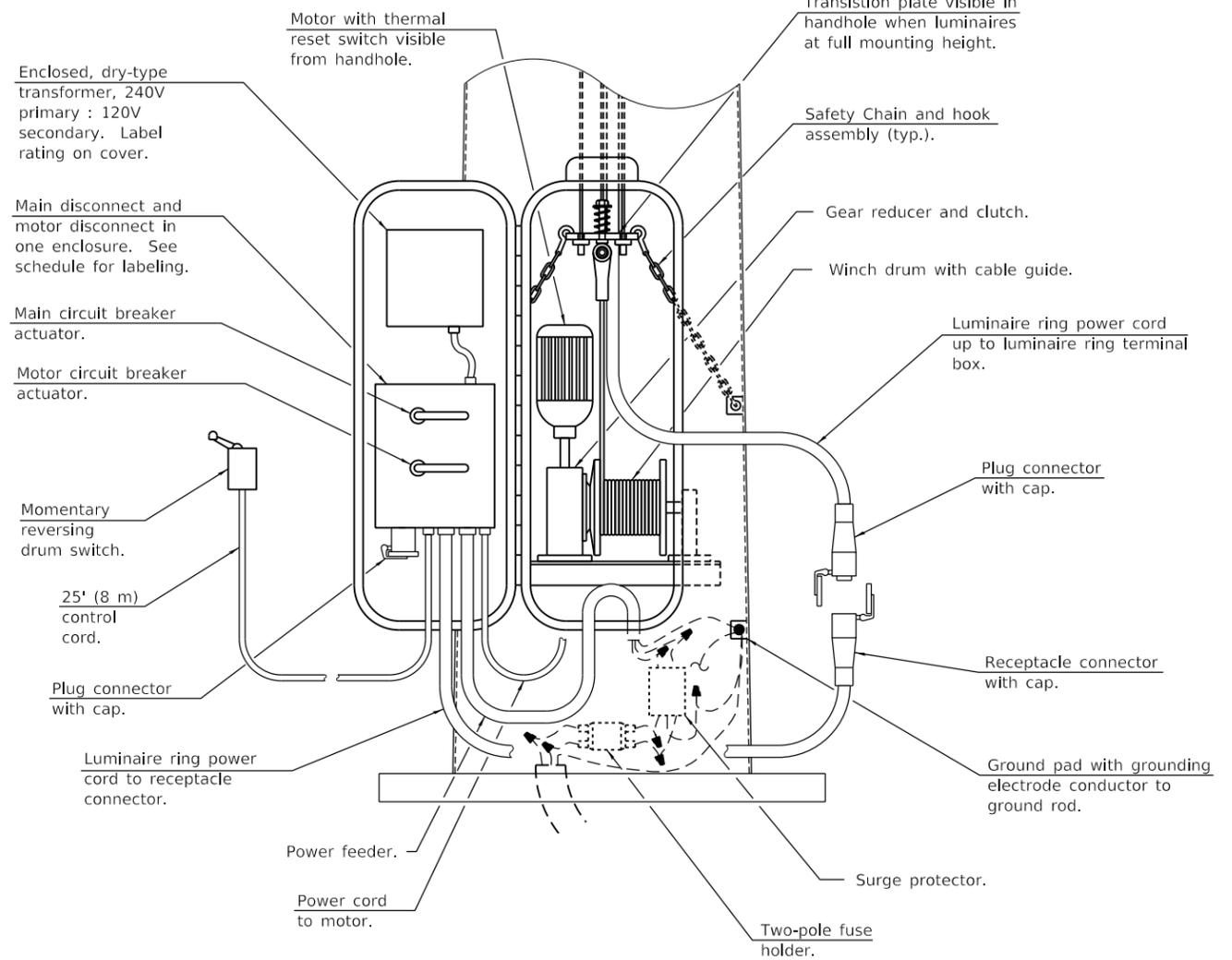
**LIGHT TOWER CONTROL PANEL DETAIL RL-7**

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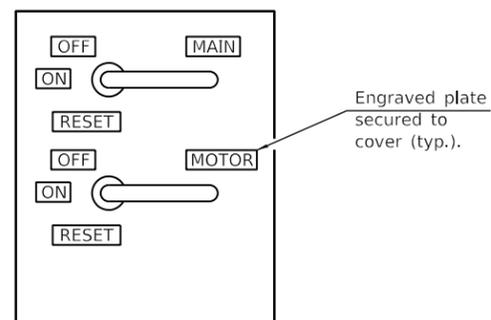
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57	D7HIGHWAY LIGHTING 2018-1	VARIOUS	20	15
				CONTRACT NO. 74840
ILLINOIS FED. AID PROJECT				



**LOWERING SYSTEM WIRING DIAGRAM**



**LOWERING AND SUPPORT MECHANISM**



**DISCONNECT SCHEDULE**

**LIGHT TOWER**

**DETAIL RL-8**

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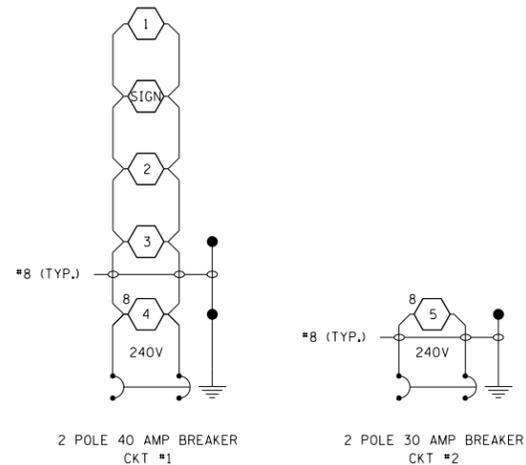
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PLOT DATE = 3/28/2018	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

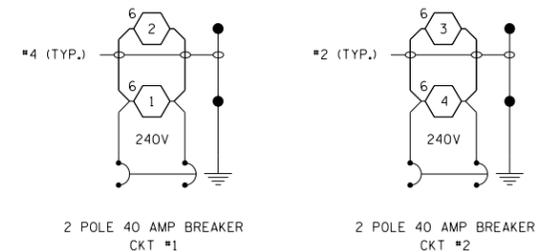
**LIGHT TOWER DETAIL RL-8**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7HIGHWAY LIGHTING 2018-1	VARIOUS	20	16
				CONTRACT NO. 74840
ILLINOIS FED. AID PROJECT				



LIGHTING CONTROLLER  
I-57 AT GREEN CREEK REST AREA  
IN BUILDING, 240V



LIGHTING CONTROLLER 02  
I-57 AT US-45  
PEDESTAL MOUNT, 240V

LEGEND

- PROPOSED LED LUMINAIRE, MEDIUM WATTAGE. NUMBER INSIDE CIRCLE INDICATES POLE NUMBER.
- PROPOSED HIGH MAST LED LUMINAIRE, HIGH WATTAGE. NUMBER INSIDE CIRCLE INDICATES POLE NUMBER. NUMBER OUTSIDE OF SYMBOL (6) INDICATES NUMBER OF LUMINAIRES ON TOWER.
- GROUND ROD

NOTES:

1. ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

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PLOT DATE = 3/28/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WIRING DIAGRAMS  
EXIT 184 US 45 & I-57**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7HIGHWAY LIGHTING 2018-1	VARIOUS	20	17
			CONTRACT NO. 74840	
		ILLINOIS	FED. AID PROJECT	





Illinois Department  
of Transportation  
Division of Highways  
IDOT

# SOIL BORING LOG

Page 1 of 1

Date 11/30/17

ROUTE FAI 57 (I-57) DESCRIPTION High mast tower foundations/I-57 & US 45 Interchange LOGGED BY E. Sandschafer

SECTION N/A LOCATION W 1/2 of sec 1 & E 1/2 of sec 2, SEC., TWP. 11 N, RNG. 7 E, 3 PM

COUNTY Coles DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO.	Station	DEPTH (ft)	BLOW S (tsf)	UCS (%)	DESCRIPTION	DEPTH (ft)	BLOW S (tsf)	UCS (%)
N/A					Surface Water Elev. <u>N/A</u> ft			
					Stream Bed Elev. <u>N/A</u> ft			
1 NB	491+55				Groundwater Elev.:			
	44.0ft RT				▼ First Encounter <u>89.1</u> ft			
	98.64				▼ Upon Completion <u>75.6</u> ft			
					▼ After 168 Hrs. <u>92.1</u> ft			
6" Topsoil	98.14				Very stiff, damp, grey, CLAY LOAM TILL.	6	2.06	11
Very stiff to medium, damp, dark grey, CLAY.						9	B	
		4						
		5	2.68	17		6	2.68	12
		7	B			8	B	
		5				4		
		-5				-25		
		6	2.89	24		6	2.47	12
		8	B			9	B	
					Extent of Exploration.			
		3						
		4	0.70	20				
		5	B		TBM: CL of I-57 NB pavement, 491+50 = 100.00 assumed.			
	89.14							
Very soft, very damp, brown, SILTY LOAM.		-10				-30		
		2	.04	25				
		2	B		B1 location: 44' Right of CL NB I-57 pavement, not CL of survey.			
	86.14							
Very stiff, damp, grey, CLAY LOAM TILL.		6						
		11	6.39	13				
		15	B					
		8				-35		
		-15						
		10	3.30	15				
		11	B					
		6						
		7	2.27	12				
		8	B					
	78.64	-20				-40		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)  
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



Illinois Department  
of Transportation  
Division of Highways  
IDOT

# SOIL BORING LOG

Page 1 of 1

Date 11/30/17

ROUTE FAI 57 (I-57) DESCRIPTION High mast tower foundations/I-57 & US 45 Interchange LOGGED BY E. Sandschafer

SECTION N/A LOCATION W 1/2 of sec 1 & E 1/2 of sec 2, SEC., TWP. 11 N, RNG. 7 E, 3 PM

COUNTY Coles DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO.	Station	DEPTH (ft)	BLOW S (tsf)	UCS (%)	DESCRIPTION	DEPTH (ft)	BLOW S (tsf)	UCS (%)
N/A					Surface Water Elev. <u>N/A</u> ft			
					Stream Bed Elev. <u>N/A</u> ft			
2 SB	43+84				Groundwater Elev.:			
	43.0ft LT				▼ First Encounter <u>Dry</u> ft			
	98.97				▼ Upon Completion <u>Dry</u> ft			
					▼ After 168 Hrs. <u>97.0</u> ft			
6" topsoil.	98.47				Very stiff to stiff, damp, grey, CLAY LOAM TILL.	5	1.65	13
Very stiff, damp, grey, CLAY LOAM.					Extent of Exploration.	6	B	
		8						
		8	2.06	13				
		9	B		TBM: CL of US 45 NB pavement, 43+84 = 100.00 assumed.			
	94.47							
Very stiff to stiff, damp, grey, CLAY LOAM TILL.		-5				-25		
		5						
		6	3.30	12				
		7	B		B2 location: 43' Left of CL US 45 NB pavement, not CL of survey.			
		3						
		5	2.06	15				
		6	B					
		5						
		-10				-30		
		6	2.89	11				
		8	B					
		3						
		5	2.68	12				
		7	B					
		4						
		-15				-35		
		6	2.06	13				
		7	B					
		3						
		5	1.73	13				
		7	B					
	78.97	-20				-40		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)  
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

MODEL: Default  
FILE NAME: P:\IL\B&E\BIDD\TEC\Illinois\pov\RID\DOT\Documents\BIDD\Office\BIDD\7\Projects\7480\CADD\BIDD\7480-PCS\soilborings.dgn

File Name S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\COLES CO (015)\015-0000 SOIL 2017 HIGH MAST TOWER.GPJ Data Template D6TEMPLT.GDT Date Printed 3/15/18  
Latitude W 88.381837 DEG Longitude N 39.423703 DEG Datum Job Number

File Name S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\COLES CO (015)\015-0000 SOIL 2017 HIGH MAST TOWER.GPJ Data Template D6TEMPLT.GDT Date Printed 3/15/18  
Latitude W 88.377933 Longitude N 39.428132 Datum Job Number

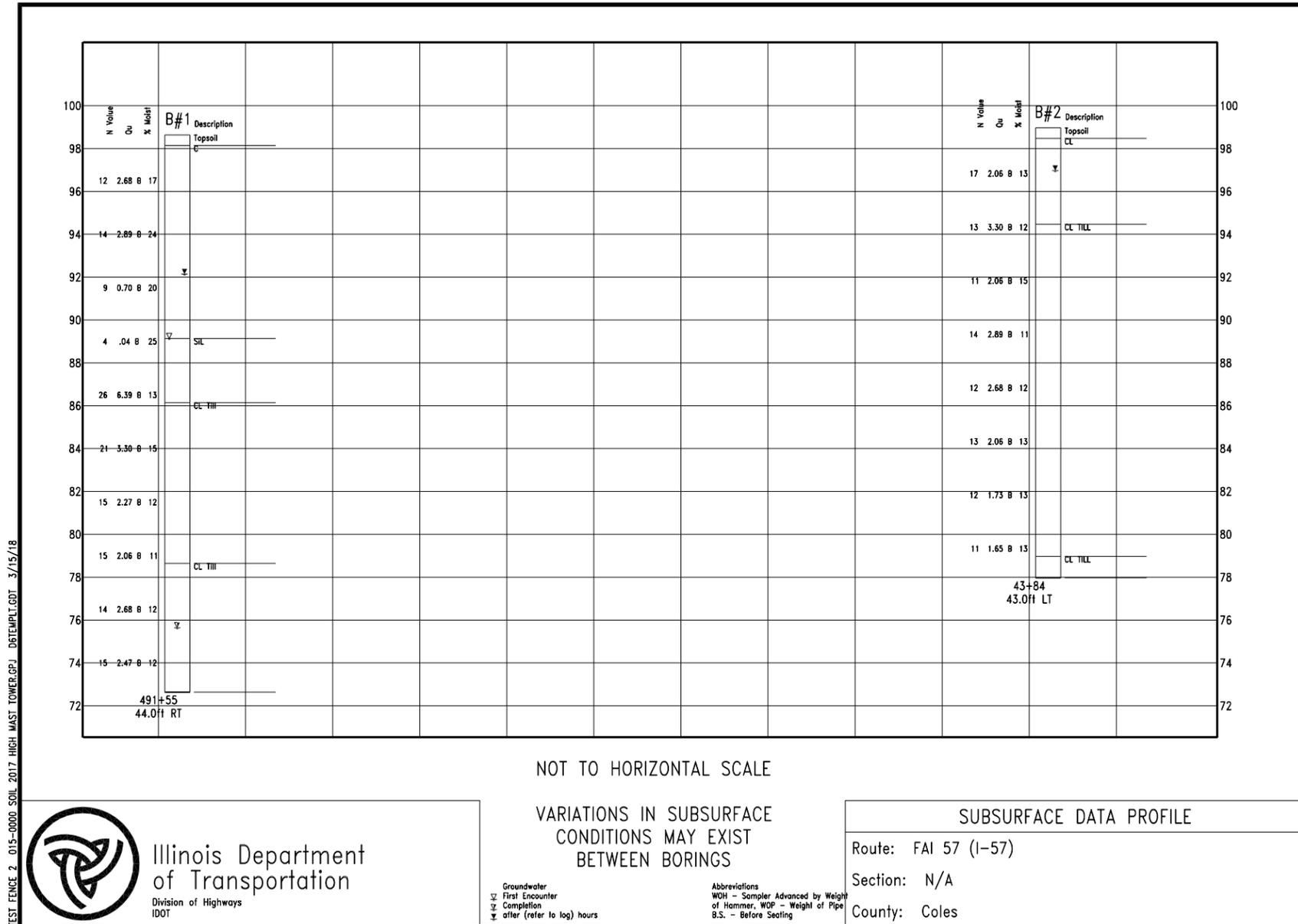
USER NAME = steffemk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/28/2018	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE:		SHEET OF SHEETS		STA. TO STA.	
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7HIGHWAY LIGHTING 2018-1	VARIOUS	20	19
CONTRACT NO. 74840				
ILLINOIS FED. AID PROJECT				

Structure Number N/A High mast tower foundations/I-57 & US 45 Interchange  
 Located in the W 1/2 of sec 1 & E 1/2 of sec 2 of Section , Township 11 N, Range 7 E of the 3 P.M.



TEST FENCE 2\_015-0000 SOIL 2017 HIGH MAST TOWER.GPJ DBTEMPLOT.GDT 3/15/18

TEST FENCE 2\_015-0000 SOIL 2017 HIGH MAST TOWER.GPJ DBTEMPLOT.GDT 3/15/18



NOT TO HORIZONTAL SCALE  
 VARIATIONS IN SUBSURFACE  
 CONDITIONS MAY EXIST  
 BETWEEN BORINGS

Groundwater  
 ▽ First Encounter  
 ▽ Completion  
 ▽ after (refer to log) hours

Abbreviations  
 WOH - Sampler Advanced by Weight of Hammer, WOP - Weight of Pipe  
 B.S. - Before Sealing

SUBSURFACE DATA PROFILE  
 Route: FAI 57 (I-57)  
 Section: N/A  
 County: Coles

MODEL: Default  
 FILE NAME: P:\IL08\B&E\IDNT\EG\_IL08\05\015-0000\SOIL\_2017\_HIGH\_MAST\_TOWER\DOT\_015-0000\Documents\IDOT\_Offices\IDOT\Documents\IDOT\_015-0000\SOIL\_2017\_HIGH\_MAST\_TOWER.GPJ

USER NAME = steffemk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/28/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SOIL BORINGS</b>			
<b>US 45 /I-57 INTERCHANGE</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	D7HIGHWAY LIGHTING 2018-1	VARIOUS	20	20
CONTRACT NO. 74840				
ILLINOIS FED. AID PROJECT				