

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-1)HL	LIVINGSTON	12	1
		ILLINOIS	CONTRACT NO. 66K12	

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- 5-6 TYPICAL SECTIONS
- 7-8 LIGHTING SHEETS
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LIST OF ILLINOIS DOT HIGHWAY STANDARDS

- 000001-07 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 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
- 701011-04 OFF-ROAD MOVING OPERATIONS 2L, 2W, DAY ONLY
- 701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS \geq 45 MPH
- 701456-05 PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
- 701901-08 TRAFFIC CONTROL DEVICES
- 821101-02 LUMINAIRE WIRING IN POLE
- 825011-04 LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240V
- 835001-01 LIGHT TOWER
- 837001-04 LIGHT TOWER FOUNDATION
- 838001-01 BREAKAWAY DEVICES
- 701401-12 LANE CLOSURE, FREEWAY/EXPRESSWAY

PROPOSED HIGHWAY PLANS

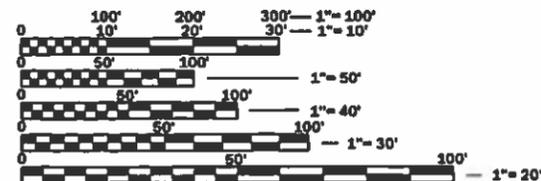
FAI ROUTE 55 (I-55) SECTION (53-1)HL PROJECT NHPP-B4Q4(678) LIGHT TOWER REMOVAL AND REPLACEMENT LIVINGSTON COUNTY

C-93-097-19



FUNCTIONAL CLASSIFICATION: INTERSTATE

ADT 2017	24,800
P.V.	70.1%
S.U.	5.7%
M.U.	24.2%



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: BRAD DUNCAN, P.E.
UNIT CHIEF: DARCY CARPENTER
DISTRICT 3 NO. (815) 434-6131
CONTRACT NO. 66K12

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 21, 2019
Kevin Marchese REGIONAL ENGINEER

May 10, 2019
[Signature] ENGINEER OF DESIGN AND ENVIRONMENT

May 10, 2019
[Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

GENERAL NOTES

FOR STABILIZATION, ALL TYPE III BARRICADES WILL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

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 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.

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

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 THE LIGHTING PAY ITEMS.

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'S ATTENTION IS DIRECTED TO THE PRESENCE OF DEPARTMENT-OWNED UNDERGROUND ELECTRICAL CABLE WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR SHALL REQUEST THE ILLINOIS DEPARTMENT OF TRANSPORTATION IN OTTAWA (815-434-8417) TO LOCATE THE UNDERGROUND FACILITIES, PROVIDING A MINIMUM OF 72 HOURS NOTICE. THE DEPARTMENT IS NOT A MEMBER OF THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (JULIE) SYSTEM.

ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRIC CABLE WILL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

1. COMED ELECTRIC
2. AT&T TELEPHONE
3. MEDIACOM CABLE
4. LEVEL 3 COMMUNICATIONS FIBER OPTIC
5. VILLAGE OF DWIGHT

NON-MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

1. ILLINOIS DEPARTMENT OF TRANSPORTATION

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

COMMITMENTS:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES
OF CONSTRUCTION:

INSPECTORS:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: *D. Ramic*
DISTRICT STUDIES & PLANS ENGINEER

DATE: 3-21-19

EXAMINED BY: *Lupe V. Lopez*
DISTRICT CONSTRUCTION ENGINEER

Michael A. Skidgel
DISTRICT MATERIALS ENGINEER

Paul H. ...
DISTRICT OPERATIONS ENGINEER

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SCALE: _____	SHEET 1 OF 1 SHEETS	STA. _____	TO STA. _____	F.A.I. RTE. 55	SECTION (53-1)HL	COUNTY LIVINGSTON	TOTAL SHEETS 12	SHEET NO. 2
CONTRACT NO. 66K12								ILLINOIS FED. AID PROJECT

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				90% FEDERAL
				10% STATE
				ROADWAY
				0021
				URBAN
67100100	MOBILIZATION	L SUM	1	1
70100820	TRAFFIC CONTROL AND PROTECTION, STANDARD 701451	L SUM	1	1
70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	L SUM	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	60	60
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	1
81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	440	440
81603000	UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	2125	2125
81603030	UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	3270	3270
82110014	LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION G	EACH	24	24
82500330	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	1	1
83502400	LIGHT TOWER, 100 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 6	EACH	4	4
83700300	LIGHT TOWER FOUNDATION, 48" DIAMETER	FOOT	48	48
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1	1
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1	1

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: _____ SHEET 1 OF 2 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-1)HL	LIVINGSTON	12	3
CONTRACT NO. 66K12				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				90% FEDERAL
				10% STATE
				ROADWAY
				0021
				URBAN
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	11925	11925
X0323710	REMOVE CONDUIT ATTACHED TO STRUCTURE	FOOT	280	280
X0326880	MESSAGE BOARD VEHICLE DRIVER	HOUR	80	80
X0326907	PORTABLE, VEHICLE MOUNTED, CHANGEABLE MESSAGE SIGN	CAL MO	1	1
X1400190	REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE	EACH	5	5
X1400273	REMOVAL OF EXISTING TOWER LUMINAIRE, NO SALVAGE	EACH	19	19
X7010520	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 (SPECIAL)	L SUM	1	1
X7010805	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401 (SPECIAL)	L SUM	1	1
X8420502	REMOVAL OF LIGHT TOWER, NO SALVAGE	EACH	4	4
X8420510	REMOVAL OF TOWER FOUNDATION	EACH	4	4

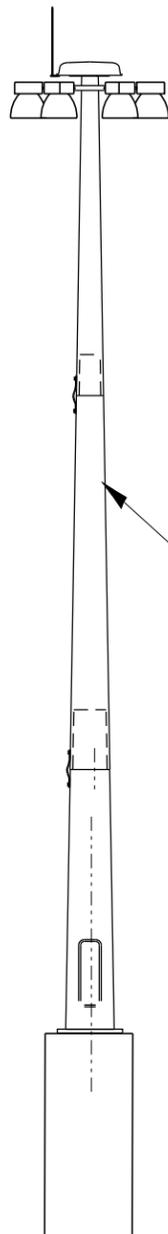
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

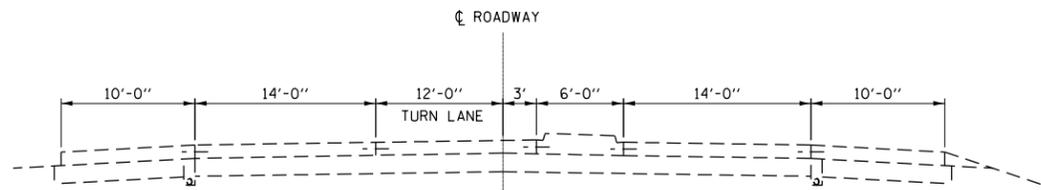
SUMMARY OF QUANTITIES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-1)HL	LIVINGSTON	12	4
			CONTRACT NO. 66K12	
		ILLINOIS FED. AID PROJECT		



REMOVE EXISTING LIGHT TOWER
AND FOUNDATION.
INSTALL NEW LIGHT TOWER-
SEE SHEET 7 FOR NEW LOCATION.



TYPICAL SECTION IL 17

LOOKING EAST FOR IL 17 (LOOKING WEST SIMILAR)

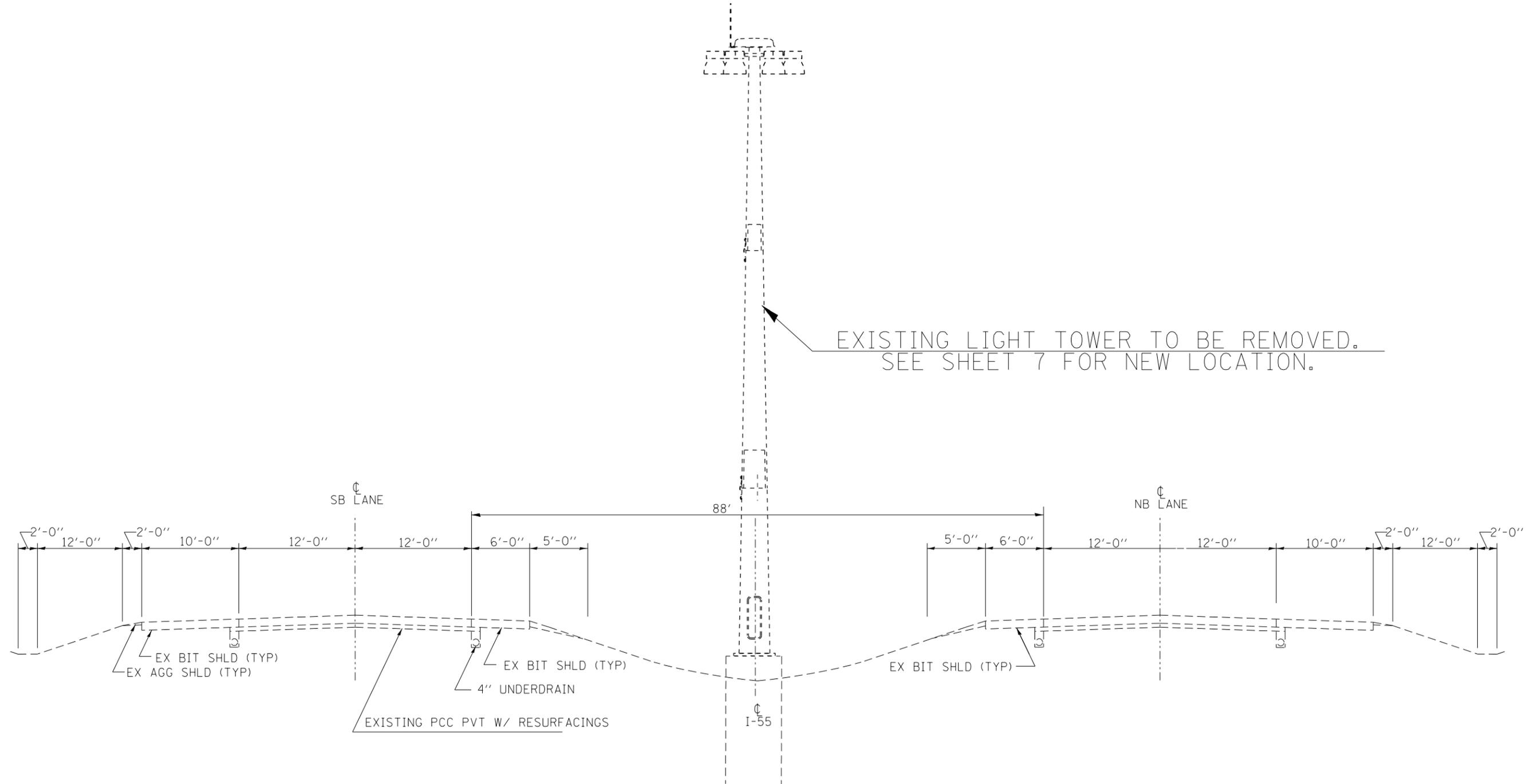
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-1)HL	LIVINGSTON	12	5
CONTRACT NO. 66K12				
ILLINOIS FED. AID PROJECT				

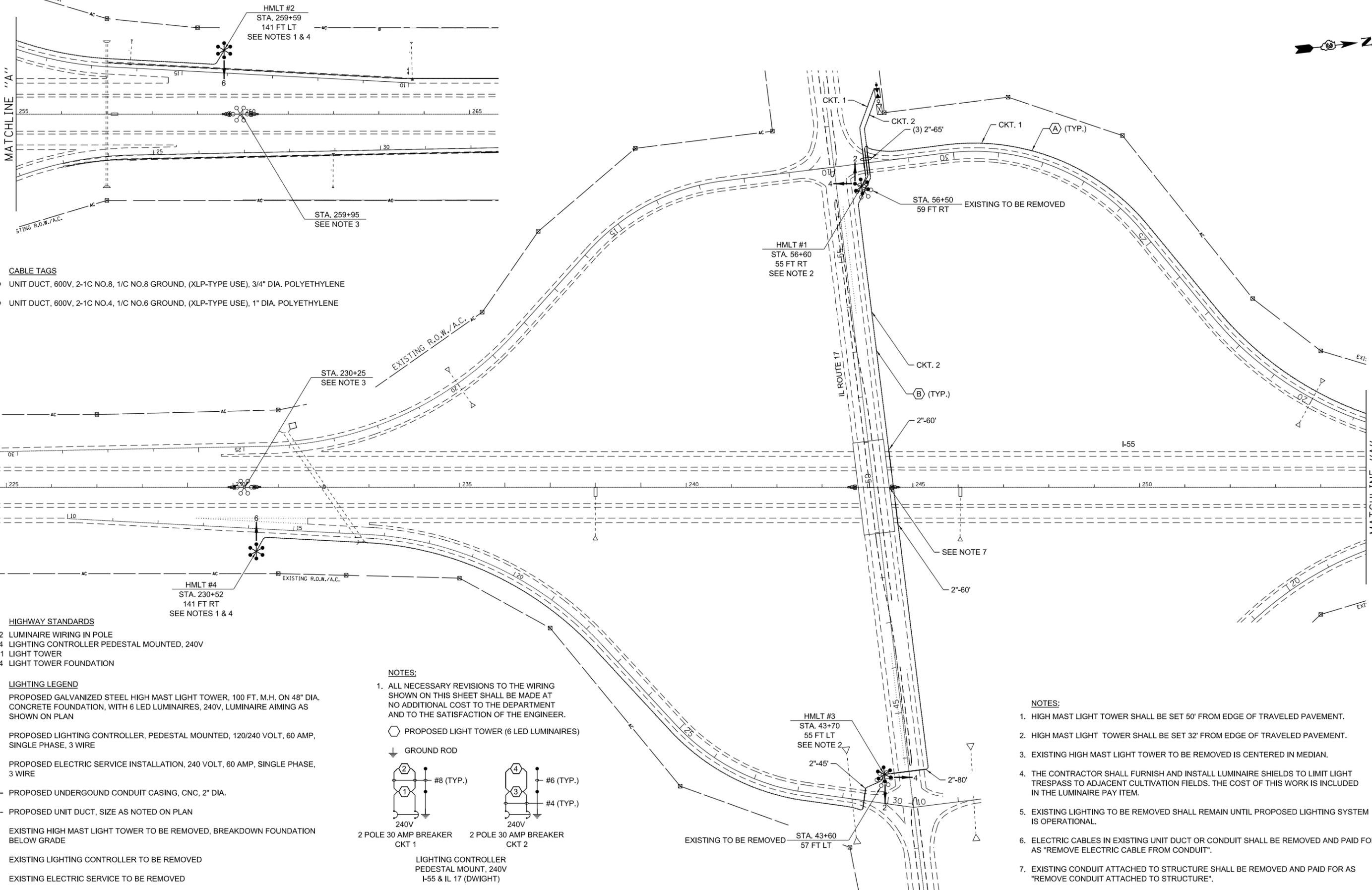


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

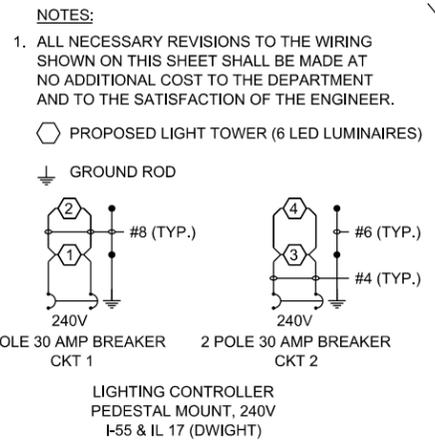
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-1)HL	LIVINGSTON	12	6
CONTRACT NO. 66K12				
ILLINOIS FED. AID PROJECT				



- CABLE TAGS**
- (A) UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
 - (B) UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE

- HIGHWAY STANDARDS**
- 821101-02 LUMINAIRE WIRING IN POLE
 - 825011-04 LIGHTING CONTROLLER PEDESTAL MOUNTED, 240V
 - 835001-01 LIGHT TOWER
 - 837001-04 LIGHT TOWER FOUNDATION

- LIGHTING LEGEND**
- PROPOSED GALVANIZED STEEL HIGH MAST LIGHT TOWER, 100 FT. M.H. ON 48" DIA. CONCRETE FOUNDATION, WITH 6 LED LUMINAIRES, 240V, LUMINAIRE AIMING AS SHOWN ON PLAN
 - PROPOSED LIGHTING CONTROLLER, PEDESTAL MOUNTED, 120/240 VOLT, 60 AMP, SINGLE PHASE, 3 WIRE
 - PROPOSED ELECTRIC SERVICE INSTALLATION, 240 VOLT, 60 AMP, SINGLE PHASE, 3 WIRE
 - PROPOSED UNDERGROUND CONDUIT CASING, CNC, 2" DIA.
 - PROPOSED UNIT DUCT, SIZE AS NOTED ON PLAN
 - EXISTING HIGH MAST LIGHT TOWER TO BE REMOVED, BREAKDOWN FOUNDATION BELOW GRADE
 - EXISTING LIGHTING CONTROLLER TO BE REMOVED
 - EXISTING ELECTRIC SERVICE TO BE REMOVED



- NOTES:**
- HIGH MAST LIGHT TOWER SHALL BE SET 50' FROM EDGE OF TRAVELED PAVEMENT.
 - HIGH MAST LIGHT TOWER SHALL BE SET 32' FROM EDGE OF TRAVELED PAVEMENT.
 - EXISTING HIGH MAST LIGHT TOWER TO BE REMOVED IS CENTERED IN MEDIAN.
 - THE CONTRACTOR SHALL FURNISH AND INSTALL LUMINAIRE SHIELDS TO LIMIT LIGHT TRESPASS TO ADJACENT CULTIVATION FIELDS. THE COST OF THIS WORK IS INCLUDED IN THE LUMINAIRE PAY ITEM.
 - EXISTING LIGHTING TO BE REMOVED SHALL REMAIN UNTIL PROPOSED LIGHTING SYSTEM IS OPERATIONAL.
 - ELECTRIC CABLES IN EXISTING UNIT DUCT OR CONDUIT SHALL BE REMOVED AND PAID FOR AS "REMOVE ELECTRIC CABLE FROM CONDUIT".
 - EXISTING CONDUIT ATTACHED TO STRUCTURE SHALL BE REMOVED AND PAID FOR AS "REMOVE CONDUIT ATTACHED TO STRUCTURE".

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LIGHTING DETAILS

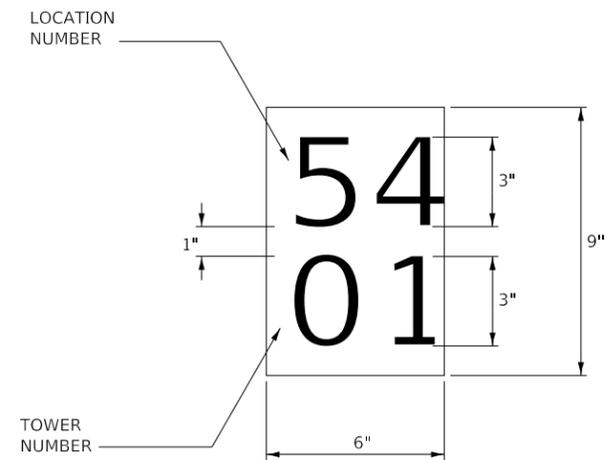
SCALE: _____ SHEET 1 OF 1 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-1)HL	LIVINGSTON	12	7
CONTRACT NO. 66K12				
ILLINOIS FED. AID PROJECT				

NOTES:

1. CONTRACTOR TO EXERCISE CAUTION WHEN INSTALLING FOUNDATIONS AND LIGHT TOWERS TO AVOID DAMAGE TO EXISTING AERIAL POWER CABLES AND ENSURE ADEQUATE HORIZONTAL CLEARANCE FROM OVERHEAD POWER LINES.
2. NO TOWER TO BE INSTALLED IN THE FLOWLINE OF DITCH. TOWER SETBACK TO BE ADJUSTED IF NECESSARY AS DIRECTED BY THE ENGINEER.
3. IT IS THE INTENT OF THIS PROJECT TO KEEP THE EXISTING LIGHT TOWERS OPERATIONAL UNTIL THE NEW TOWERS ARE OPERATIONAL, THE CONTRACTOR IS ALLOWED 24 HOURS AT EACH INTERCHANGE WHERE THERE CAN BE NO LIGHTING. IN ORDER TO ACCOMPLISH THIS, THE PROPOSED CONDUIT, CONTROLLERS, AND LIGHT TOWERS MUST BE OFFSET FROM THE EXISTING CONDUIT, CONTROLLERS, AND TOWERS. THE NEW TOWERS SHALL BE NO MORE THAN 15' FROM THE EXISTING TOWERS AND IN NO CASE SHALL THE PROPOSED TOWERS BE LOCATED IN THE CLEARZONE.
4. TRAFFIC CONTROL TO REMOVE AND REPLACE LIGHT TOWERS ON IL 17 SHALL BE TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 (SPECIAL)-SEE SPECIAL PROVISIONS. THE RAMPS SHALL REMAIN OPEN AT ALL TIMES AT THE IL 17 INTERCHANGE. TRAFFIC CONTROL TO BE USED WHEN REMOVING LIGHT TOWERS IN THE I-55 MEDIAN SHALL BE TRAFFIC CONTROL AND PROTECTION 701401 (SPECIAL).
5. FOR THE MAINLINE TOWERS ALONG I-55, THE CONTRACTOR SHALL INSTALL HIGH MAST LUMINAIRES PERPENDICULAR TO THE HIGHWAY WITH SIX (6) LUMINAIRES AIMED TOWARD THE EXIT RAMP TERMINAL AS SHOWN ON SHEET NO. 7. FOR THE RAMP INTERSECTION TOWERS, THE CONTRACTOR SHALL INSTALL HIGH MAST LUMINAIRES PERPENDICULAR TO THE ROADWAY WITH FOUR (4) LUMINAIRES AIMED AT IL 17, AND TWO (2) LUMINAIRES AIMED PERPENDICULAR TO THE ON AND OFF RAMPS AS SHOWN ON SHEET NO. 7.

LIGHT TOWER IDENTIFICATION:



THE CONTRACTOR SHALL FURNISH AND INSTALL A LIGHT TOWER IDENTIFICATION ON EACH LIGHT TOWER PER SECTION 1069.06 OF THE S.S., AS SHOWN ABOVE, INCIDENTAL TO THE RESPECTIVE LIGHT TOWER PAY ITEM. THE NUMERALS SHALL BE 3" HIGH SERIES "D", BLACK, SCREENED ON SILVER-WHITE TYPE B PRESSURE SENSITIVE REFLECTIVE SHEETING CONFORMING TO THE REQUIREMENTS OF SECTION T602.01 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS. THE NUMERALS SHALL CONFORM TO THE FHWA "STANDARD ALPHABETS FOR HIGHWAY SIGNS".

THE LIGHT TOWER IDENTIFICATION SHALL BE APPLIED TO SIGN BASE MATERIAL AS SPECIFIED IN SECTION 1085.05 OF THE SUPPLEMENTAL SPECIFICATIONS, APPROXIMATELY 7' ABOVE THE ADJACENT PAVEMENT GRADE VISIBLE TO APPROACHING TRAFFIC IN ACCORDANCE WITH HIGHWAY STANDARD 2319.

I-55 & IL 17 (DWIGHT) LOCATION NUMBER 54, POLE NUMBER 1-4

BILL OF MATERIALS

PAY ITEM	DESCRIPTION	UNIT	QUANTITY
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	440
81603000	UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	2125
81603030	UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	3270
82110014	LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION G	EACH	24
82500330	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240 VOLT, 60 AMP	EACH	1
83502400	LIGHT TOWER, 100 FT. MOUNTINGHEIGHT, LUMINAIRE MT. - 6	EACH	4
83700300	LIGHT TOWER FOUNDATION, 48" DIAMETER	FOOT	48
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	11,925
X0323710	REMOVE CONDUIT ATTACHED TO STRUCTURE	FOOT	280
X1400190	REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE	EACH	5
X1400273	REMOVAL OF EXISTING TOWER LUMINAIRE, NO SALVAGE	EACH	19
X8420502	REMOVAL OF LIGHT TOWER, NO SALVAGE	EACH	4
X8420510	REMOVAL OF TOWER FOUNDATION	EACH	4

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LIGHTING DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-1)HL	LIVINGSTON	12	8
CONTRACT NO. 66K12				
ILLINOIS FED. AID PROJECT				

LOCATION: I-55 & IL 17
 DISTRICT: 3
 COUNTY: DWIGHT

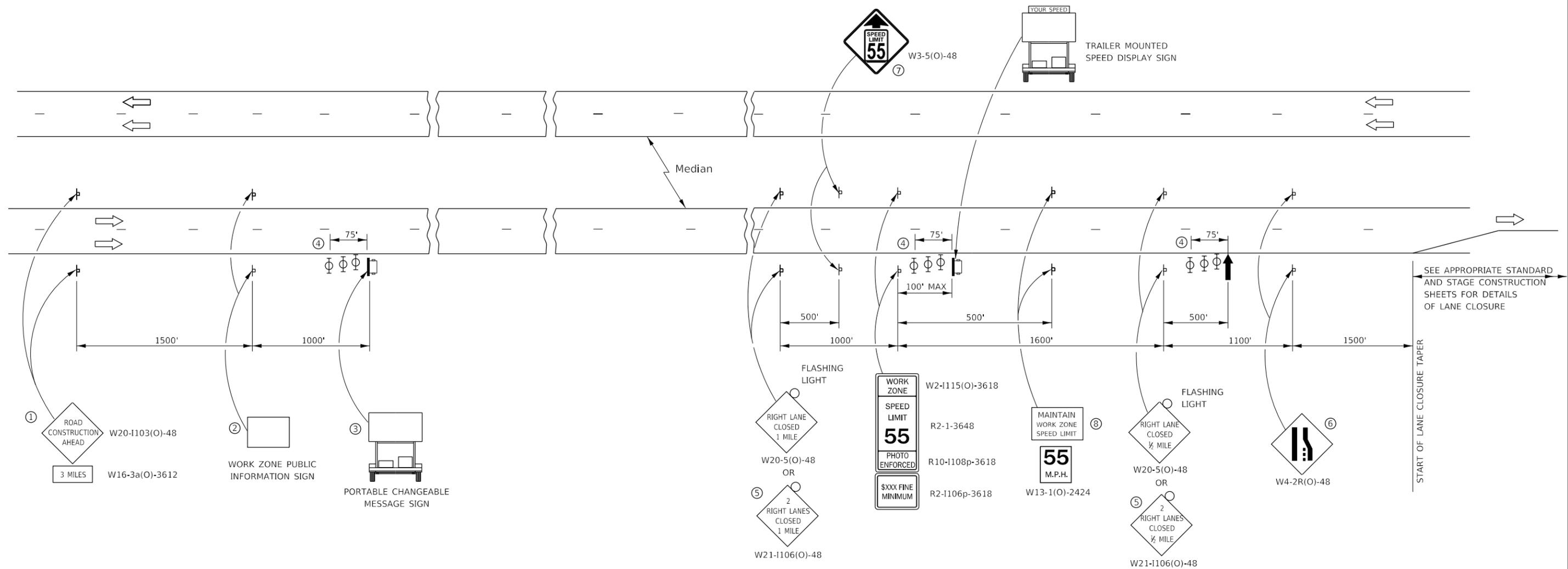
**ILLINOIS DEPARTMENT OF TRANSPORTATION
 LUMINAIRE PERFORMANCE TABLE
 Isolated Intersection – Partial Interchange Lighting**

GIVEN CONDITIONS		
ROADWAY DATA	Lane Width	12 ft
	Number of Lanes (in one direction)	3
	Median Width	0 ft
	I.E.S. Surface Classification	R3
LIGHT POLE DATA	Q-Zero Value	.07
	Mounting Height	100 ft
	Arm Length	5 ft
	Set-Back From Edge of Pavement (White Line)	50 ft
LUMINAIRE DATA	Luminaire Type	LED
	I.E.S. Vertical Distribution	Medium
	BUG Rating	U = 0
	I.E.S. Lateral Distribution	Type II
LAYOUT DATA	Total Light Loss Factor	0.684
	Spacing	575 ft
	Configuration	SINGLE SIDE

- NOTES:**
- Variations from the above specified I.E.S. distribution may be requested and will be subject to review by the Engineer.
 - Total light loss factor is the product of "Lumen Depreciation" (LLD) = 0.90, "Dirt Depreciation" (LDF) = 0.80, and "Equipment factors" (EF) = 0.95.
 - A Lumen Depreciation value greater than 0.90 for LED light sources shall be based upon I.E.S. LM-80 or I.E.S. LM-84 and I.E.S. TM-21 test reports.

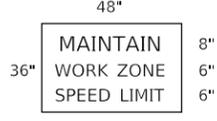
PERFORMANCE REQUIREMENTS		
NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.		
ILLUMINANCE	Average Illuminance, E_{AVE}	0.6 fc
	Uniformity Ratio, E_{AVE}/E_{MIN}	3.0:1

LIGHT TRESPASS		
NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire at a LLF = 1.0.		
ROADWAY DATA	Distance to ROW (Behind Pole)	60 ft
ILLUMINANCE	Max. Horizontal Illuminance at ROW, E_H	< 0.2 fc
	Max. Vertical Illuminance at ROW, E_V	< 0.2 fc



- ① THE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 3 MILES IN ADVANCE OF THE PROJECT LIMITS.
- ② THE MESSAGE AND SIZE OF THE WORK ZONE PUBLIC INFORMATION SIGN SHALL BE AS SPECIFIED BY THE DEPARTMENT.
- ③ TO BE PLACED IN THE MEDIAN WHEN FEASIBLE. THE MESSAGE BOARD SHALL BE USED TO DISPLAY STATUS OF LANES WITHIN THE PROJECT. THE PRIMARY MESSAGES SHALL BE:
 "RIGHT LANE CLOSED" / " x MILES AHEAD"
 "LEFT LANE CLOSED" / " x MILES AHEAD"
 "ALL LANES OPEN"
- ④ THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 25' CENTERS.
- ⑤ THIS SIGN SHALL BE USED WHEN 2 LANES ARE CLOSED.
- ⑥ WHEN THE LEFT LANE IS CLOSED, SWITCH THESE TWO SIGNS AND THE DIRECTION OF THE MERGE ARROW.
- ⑦ THIS SIGN SHALL ONLY BE USED IF THE EXISTING SPEED LIMIT IS GREATER THAN 65 MPH.

⑧ 48"x36" FLUORESCENT ORANGE SIGN WITH BLACK LETTERS.



- ↑ ARROW BOARD
- ☐ PORTABLE CHANGEABLE MESSAGE SIGN
- ⊥ SIGN
- ⊕ TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT

GENERAL NOTE:

THIS STANDARD IS USED WHERE AT ANY TIME A LANE IS CLOSED ON A FREEWAY/EXPRESSWAY.

WHEN THE LEFT LANE IS CLOSED, LEFT LANE CLOSED SIGNS SHALL BE SUBSTITUTED FOR THE RIGHT LANE CLOSED SIGNS.

THE FIRST TWO SIGNS AND THE MESSAGE BOARD ARE STATIONARY. THE OTHER SIGNS AND ARROWBOARDS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED DISTANCE FROM THE START OF THE LANE CLOSURE TAPER(S).

SEE SPECIAL PROVISIONS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = pletschr	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION STANDARD 701400 (SPECIAL)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\planroom\dot\illinois.gov\PWDOT\Documents\IDOT\Files\District 3\Projects\D366K12\CADData\D366K12-shd-detailed	DRAWN - _____	REVISED - _____	55			(53-1)HL	LIVINGSTON	12	12		
Default	PLOT SCALE = 100,0000' / in.	CHECKED - _____	REVISED - _____			CONTRACT NO. 66K12					
	PLOT DATE = 3/20/2019	DATE - _____	REVISED - _____			SCALE: _____	SHEET 1 OF 1 SHEETS	STA. _____	TO STA. _____	ILLINOIS FED. AID PROJECT	