

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

P.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
	60-(1,2) HL-1	MADISON	12
ILLINOIS			CONTRACT NO. 7

PROPOSED HIGHWAY PLANS

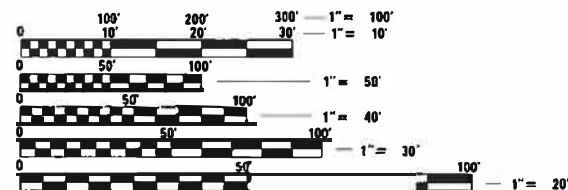
SEE INDEX OF SHEETS, SEE SHEET NO.2
FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO.2

POSTED SPEED LIMIT
I-55 = 70 MPH
IL 140 = 40 MPH
RAMPS = 50 MPH

FAI ROUTE 55 (I-55)
PROJECT NHPP-43E4(178)
SECTION: 60-(1,2) HL-1
PROJECT DESCRIPTION: HIGHWAY LIGHTING
MADISON COUNTY
C-98-082-22

	ADT (TOTAL)	(TRUCKS)	
		MU	SU
I-55	38,600 (2021)	6400	1,375 (2021)
IL-140	8,500 (2021)	1150	1,150 (2021)
NB I-55 TO IL-140	2,800 (2016)		
IL-140 TO NB I-55	2,300 (2016)		
IL-140 TO SB I-55	2,900 (2016)		
SB I-55 TO IL-140	2,300 (2016)		

MUNICIPALITY:
VILLAGE OF HAMEL

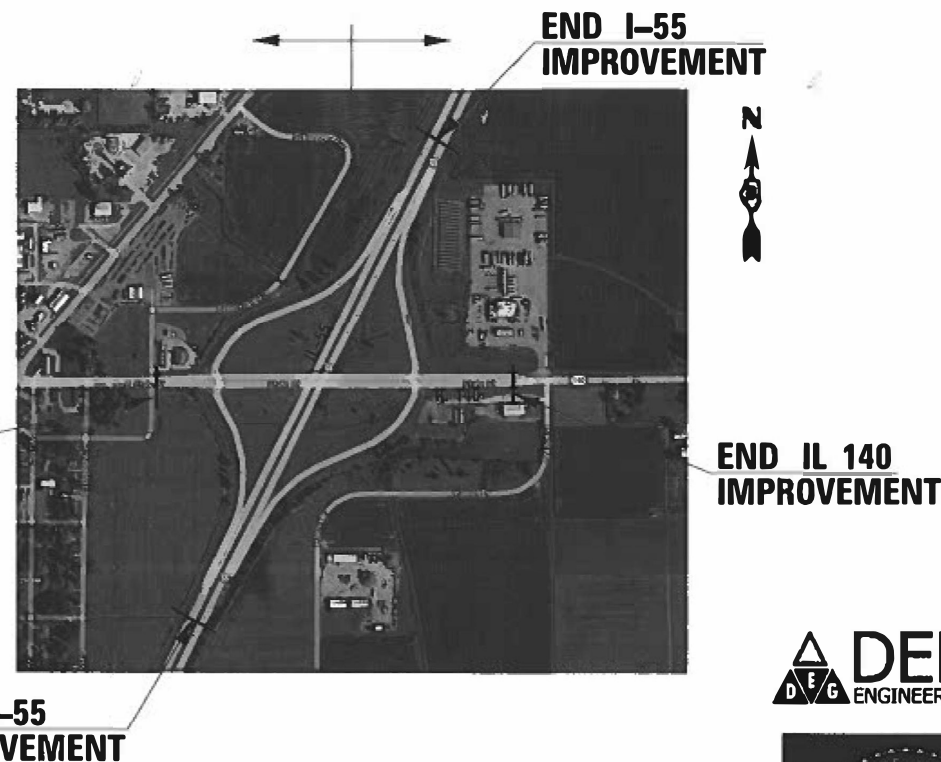


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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. 76R27



LOCATION MAP
NOT TO SCALE



LICENSE EXPIRES: 11-30-2023



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *Dec 5, 22*
Richard H. Brown
REGIONAL ENGINEER

May 12, 2023 *John A. Elk*
ENGINEER OF DESIGN AND ENVIRONMENT

May 12, 2023 *Stephen M. Smith*
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, HIGHWAY STANDARDS AND GENERAL NOTES
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- 5 PROPOSED LIGHTING PLAN
- 6 WIRING DIAGRAM AND LUMINAIRE PERFORMANCE TABLE
- 7 - 12 SOIL BORING LOGS

IDOT HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
- 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701101-05 OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
- 701106-02 OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701901-08 TRAFFIC CONTROL DEVICES
- 821101-02 LUMINAIRE WIRING IN POLE
- 825026-04 LIGHTING CONTROLLER BASE MOUNT 480V
- 835001-01 LIGHT TOWER
- 837001-05 LIGHT TOWER FOUNDATION
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 805001-01 ELECTRICAL SERVICE INSTALLATION DETIALS

GENERAL NOTES:

1. THIS PROJECT INCLUDES THE INSTALLATION OF A NEW LIGHTING SYSTEM ALONG THE INTERCHANGE OF I-55 AND IL-140. PROPOSED LIGHTING SHALL BE OWNED AND MAINTAINED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION.
2. THE CONTRACTOR SHALL CONTACT THE LOCAL ELECTRIC UTILITY COMPANY TO COORDINATE THE ELECTRIC SERVICE INSTALLATION WORK.
3. THE QUANTITIES OF RACEWAY WHERE INDICATED ON THESE PLANS ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS
4. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.
5. THE CONTRACTOR SHALL VERIFY LOCATIONS OF UNDERGROUND/OVERHEAD UTILITIES PRIOR TO INSTALLATION OF HIGH MAST TOWER AND CONDUITS. IF THERE IS A CONFLICT WITH THE HIGH MAST TOWERS/CONDUITS AS SHOWN ON PLANS, THE CONTRACTOR SHALL SUGGEST THE ALTERNATIVE LOCATIONS AND COORDINATE WITH THE ENGINEER PRIOR TO PERFORMING CONSTRUCTION WORK
6. TRENCHES FOR LIGHTING RACEWAYS SHALL HAVE A MINIMUM DEPTH OF 30".
7. LIGHTING SYSTEM INSTALLATION SHALL CONFORM TO THE LATEST IDOT STANDARDS, NEC AND LOCAL CODES.
8. ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE UL LISTED AND LABELED.
9. THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING UNIT DUCT TO AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES, TREES AND ROOTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AS DETERMINED BY THE ENGINEER.
10. THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING HIGH MAST TOWER FOUNDATIONS TO AVOID CONFLICTS WITH UNDERGROUND UTILITIES. WHEN CONFLICTS ARE ENCOUNTERED, THE CONTRACTOR SHALL REQUEST TO RELOCATE THE FOUNDATION. THE NEW LOCATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
11. GROUND RODS SHALL BE INSTALLED AT EACH TOWER.

REV. - MS

LT-01

MODEL: MODEL NAMES
FILE NAME: 31E15



USER NAME = \$USERS	DESIGNED - AM/HM	REVISED -
	DRAWN - AM	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - KK/HM	REVISED -
PLOT DATE = \$DATES	DATE - 01/31/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX FOR SHEETS, HIGHWAY STANDARDS AND GENERAL NOTES
I-55 AT IL 140**

SCALE: NONE SHEET 1 OF 1 SHEETS STA TO STA

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	60-(1,2) HL-1	MADISON	12	2
CONTRACT NO. 76R27			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
				0021 90% FED 10% STATE	
67100100	MOBILIZATION	L SUM	1	1	
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	1	
81028790	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA.	FOOT	490	490	
81603000	UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	500	500	
81603032	UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	6060	6060	
82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	2	2	
82110015	LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION H	EACH	24	24	
82500360	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 100AMP	EACH	1	1	
83503400	LIGHT TOWER, 110 FT. MOUNTING HEIGHT, LUMINAIRE MT - 6	EACH	4	4	
83700300	LIGHT TOWER FOUNDATION, 48" DIAMETER	FOOT	76	76	
84200605	REMOVAL OF LIGHTING TOWER, NO SALVAGE	EACH	4	4	
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1	1	
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1	1	

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
				0021 90% FED 10% STATE	
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5910	5910	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
X8420510	REMOVAL OF TOWER FOUNDATION	EACH	4	4	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	250	250	
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	3	3	
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1	
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1	
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	7	7	

* SPECIALTY ITEM

REV. - MS

LT-02

MODEL NUMBER: 11/13
FILE NAME: 11/13



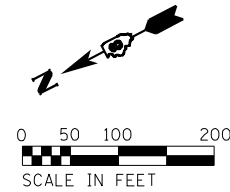
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PLOT DATE = \$DATE\$	CHECKED - KK/HM	REVISED -
	DATE - 01/31/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
I-55 AT IL 140

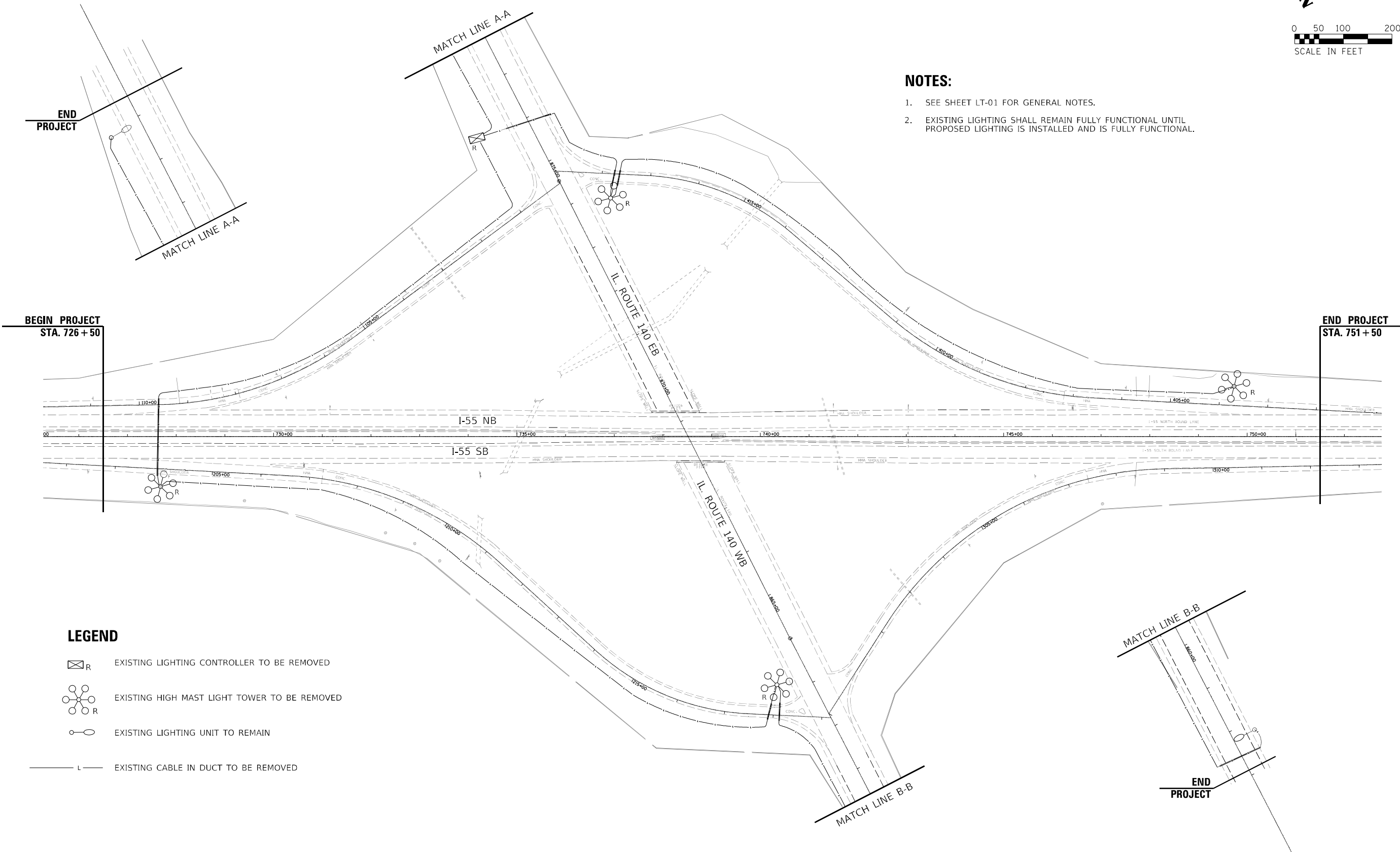
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	60-(1,2) HL-1	MADISON	12	3
			CONTRACT NO. 76R27	
ILLINOIS FED. AID PROJECT				



NOTES:

1. SEE SHEET LT-01 FOR GENERAL NOTES.
2. EXISTING LIGHTING SHALL REMAIN FULLY FUNCTIONAL UNTIL PROPOSED LIGHTING IS INSTALLED AND IS FULLY FUNCTIONAL.



END PROJECT

BEGIN PROJECT
STA. 726 + 50

END PROJECT
STA. 751 + 50

LEGEND

- EXISTING LIGHTING CONTROLLER TO BE REMOVED
- EXISTING HIGH MAST LIGHT TOWER TO BE REMOVED
- EXISTING LIGHTING UNIT TO REMAIN
- EXISTING CABLE IN DUCT TO BE REMOVED

MATCH LINE B-B

END PROJECT

MODEL: I:\MODELS\I-55\I-55.LIN
FILE: I-55.LIN; SHEETS



USER NAME = \$USERS	DESIGNED - AM/HM	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - AM	REVISED -
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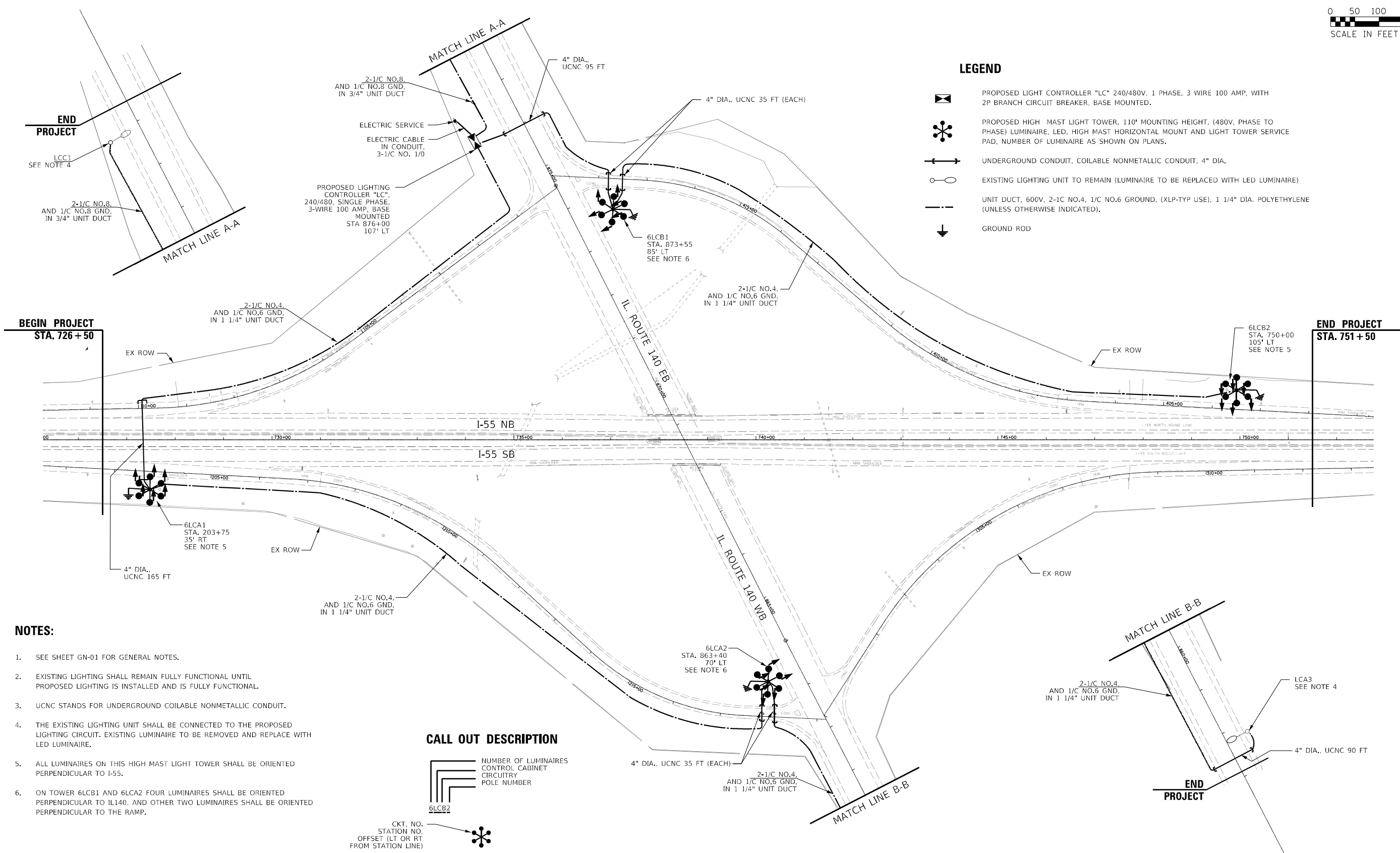
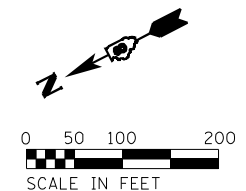
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL LIGHTING PLAN
I-55 AT IL 140**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	60-(1,2) HL-1	MADISON	12	4
CONTRACT NO. 76R27			ILLINOIS FED. AID PROJECT	

LT-03



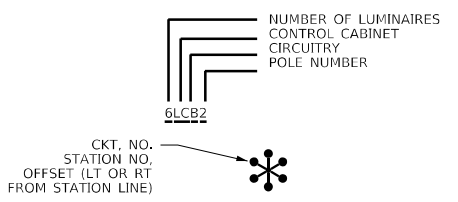
LEGEND

- PROPOSED LIGHT CONTROLLER "LC" 240/480V, 1 PHASE, 3 WIRE 100 AMP, WITH 2P BRANCH CIRCUIT BREAKER, BASE MOUNTED.
- PROPOSED HIGH MAST LIGHT TOWER, 110' MOUNTING HEIGHT, (480V, PHASE TO PHASE) LUMINAIRE, LED, HIGH MAST HORIZONTAL MOUNT AND LIGHT TOWER SERVICE PAD, NUMBER OF LUMINAIRE AS SHOWN ON PLANS.
- UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA.
- EXISTING LIGHTING UNIT TO REMAIN (LUMINAIRE TO BE REPLACED WITH LED LUMINAIRE)
- UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYP USE), 1 1/4" DIA. POLYETHYLENE (UNLESS OTHERWISE INDICATED).
- GROUND ROD

NOTES:

1. SEE SHEET GN-01 FOR GENERAL NOTES.
2. EXISTING LIGHTING SHALL REMAIN FULLY FUNCTIONAL UNTIL PROPOSED LIGHTING IS INSTALLED AND IS FULLY FUNCTIONAL.
3. UCNC STANDS FOR UNDERGROUND COILABLE NONMETALLIC CONDUIT.
4. THE EXISTING LIGHTING UNIT SHALL BE CONNECTED TO THE PROPOSED LIGHTING CIRCUIT. EXISTING LUMINAIRE TO BE REMOVED AND REPLACE WITH LED LUMINAIRE.
5. ALL LUMINAIRES ON THIS HIGH MAST LIGHT TOWER SHALL BE ORIENTED PERPENDICULAR TO I-55.
6. ON TOWER 6LCB1 AND 6LCA2 FOUR LUMINAIRES SHALL BE ORIENTED PERPENDICULAR TO IL140, AND OTHER TWO LUMINAIRES SHALL BE ORIENTED PERPENDICULAR TO THE RAMP.

CALL OUT DESCRIPTION



MODEL: 140DELTA.MXD
FILE NAME: 140.LT



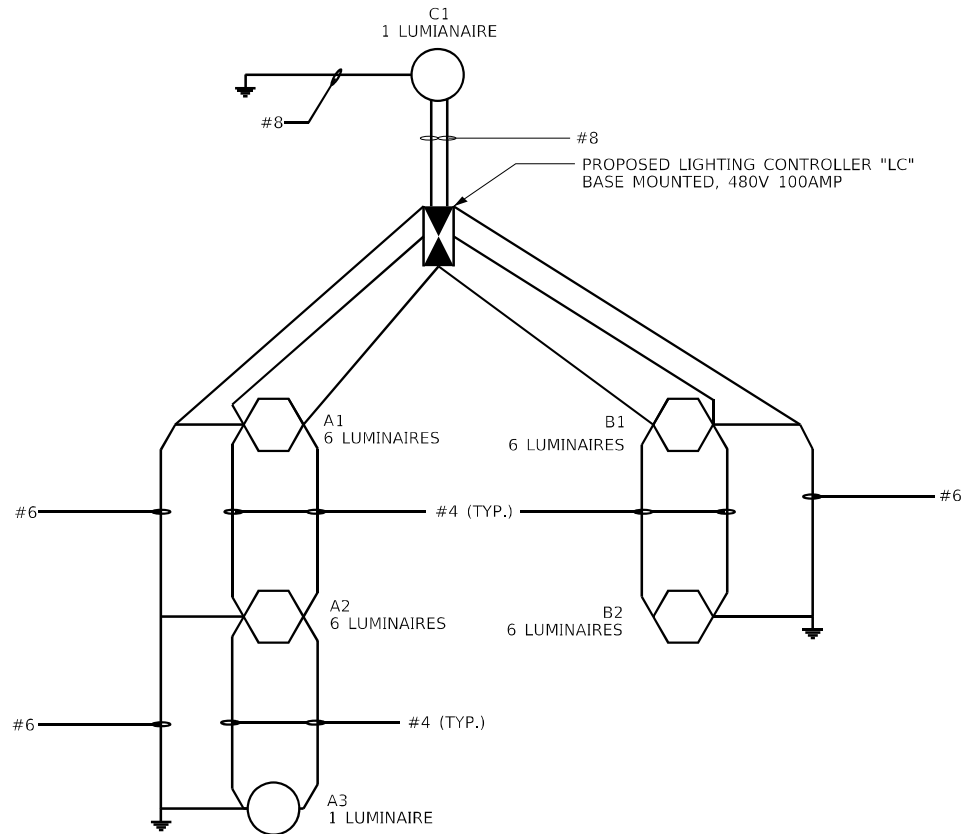
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	DATE - 01/31/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**






PROPOSED LIGHTING PLAN I-55 AT IL 140			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	60-(1,2) HL-1	MADISON	12	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76R27	

LT-04



LEGEND

-  PROPOSED LIGHTING CONTROLLER "LC" 240/480V, 1 PHASE, 3 WIRE 100 AMP, WITH 2P BRANCH CIRCUIT BREAKERS, BASE MOUNTED
-  PROPOSED LIGHT TOWER
-  EXISTING LIGHTING UNIT WITH RETROFITTED LED LUMINAIRE
-  GROUND ROD
-  UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA., POLYETHYLENE

Project				
Date	Contract Number	Section Number	County	
11/04/22	C-98-082-22	60-(1,2) HL-1	Madison	
Marked Route Number		Municipality		
I-55 AND IL 140		HAMEL		
Roadway				
Lane Width	# of Lanes	Median Width	I.E.S. Surface Classification	Q-Zero Value
12 FT.	5	NA	R3	0.07
Structure				
Mounting Height	Arm Length	Set-Back	Number of Luminaires (Highmast & Sign Lighting Only)	
110FT.	2FT.	31FT.	6	
Luminaire				
Description	I.E.S. Lateral Distribution		I.E.S. Vertical Distribution	
Highmast, Output Designation H	Type III		Medium	
Total Light Loss Factor (LLF)	B-U-G Rating	Shields	Dimming Protocol	
0.7	U=0		0-10V	
Layout				
Spacing (to Nearest 5 ft)	Configuration (Opposite, Staggered, 1 Sided, or Median)			
110 FT.	One Sided			
Performance				
Average Illuminance, E_{ave} (fc)	Uniformity Ratio, E_{min}/E_{max}			
0.9	3.0:1			
Average Luminance, L_{ave} (cd/m ²)	Uniformity Ratio, L_{ave}/L_{min}	Uniformity Ratio, L_{max}/L_{min}	Veiling Luminance Ratio, L_v/L_{ave}	
N/A	N/A	N/A	N/A	
Light Trespass				
Distance to ROW (behind pole)	Max. Horizontal Illuminance at ROW, E_h	Max. Vertical Illuminance at ROW, E_v		
35	.3 fc	.3 fc		
Notes				
1. Set-Back is from Edge of Pavement (white line) except for sign luminaires when it is vertical and horizontal distance from the sign to the luminaire. 2. Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to the roadway. 3. Total Light Loss Factor (LLF) = the product of "Lumen Maintenance" (LLD) = 0.9, "Dirt Depreciation" (LDD) = 0.8, and "Equipment Factors" (EF) = 0.95. 4. Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.				
a. Compliance with performance criteria shall be held to one significant digit.				

Project				
Date	Contract Number	Section Number	County	
11/04/22	C-98-082-22	60-(1,2) HL-1	Madison	
Marked Route Number		Municipality		
I-55 AND IL 140		HAMEL		
Roadway				
Lane Width	# of Lanes	Median Width	I.E.S. Surface Classification	Q-Zero Value
12 FT.	5	NA	R3	0.07
Structure				
Mounting Height	Arm Length	Set-Back	Number of Luminaires (Highmast & Sign Lighting Only)	
50FT.	15FT.	20FT.	1	
Luminaire				
Description	I.E.S. Lateral Distribution		I.E.S. Vertical Distribution	
Roadway, Output Designation H	Type III		Medium	
Total Light Loss Factor (LLF)	B-U-G Rating	Shields	Dimming Protocol	
0.7	U=0		0-10V	
Layout				
Spacing (to Nearest 5 ft)	Configuration (Opposite, Staggered, 1 Sided, or Median)			
165 FT.	One Sided			
Performance				
Average Illuminance, E_{ave} (fc)	Uniformity Ratio, E_{min}/E_{max}			
0.9	3.0:1			
Average Luminance, L_{ave} (cd/m ²)	Uniformity Ratio, L_{ave}/L_{min}	Uniformity Ratio, L_{max}/L_{min}	Veiling Luminance Ratio, L_v/L_{ave}	
0.6	3.5	6.0	0.3	
Light Trespass				
Distance to ROW (behind pole)	Max. Horizontal Illuminance at ROW, E_h	Max. Vertical Illuminance at ROW, E_v		
20	.3 fc	.3 fc		
Notes				
1. Set-Back is from Edge of Pavement (white line) except for sign luminaires when it is vertical and horizontal distance from the sign to the luminaire. 2. Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to the roadway. 3. Total Light Loss Factor (LLF) = the product of "Lumen Maintenance" (LLD) = 0.9, "Dirt Depreciation" (LDD) = 0.8, and "Equipment Factors" (EF) = 0.95. 4. Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.				
a. Compliance with performance criteria shall be held to one significant digit.				

LIGHTING CONTROLLER 'LC'

240/480V, 1 PHASE, 3 WIRE, 100A WITH 2P BRANCH CIRCUIT BREAKERS

CIRCUIT DESIGNATION	TOTAL LUM	CONNECTED LOAD AMPS	TOTAL WATTAGE
A	13	6.66	3164
B	12	6.00	2880
C	1	0.66	284
D	-	SPARE	SPARE
E	-	SPARE	SPARE
F	-	SPARE	SPARE
TOTAL	26	13.32	6328

TOTAL LOAD IN WATTS 6328
TOTAL LOAD IN AMPS 13.32

MODEL: 1400DELTA.MXD
FILE: 1400DELTA.DWG



USER NAME = \$USERS	DESIGNED - AM/HM	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - KK/HM	REVISED -
PLOT DATE = \$DATE\$	DATE - 01/31/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WIRING DIAGRAM AND LUMINAIRE PERFORMANCE TABLE
I-55 AT IL 140**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	60-(1,2) HL-1	MADISON	12	6
CONTRACT NO. 76R27				
ILLINOIS FED. AID PROJECT				

LT-05



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

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Date 9/14/98

ROUTE FAI 55 DESCRIPTION Sign Truss Ramp A - Southbound Homestead Rest Area LOGGED BY Larry Ford

SECTION 60-1RA,SG LOCATION SEC. 23, TWP. 5N, RNG. 7W, 3rd PM, Latitude, Longitude

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. N/A
Station N/A
BORING NO. B-1
Station 101+75
Offset 14.0 ft Right BL
Ground Surface Elev. 534.80 ft

DEPTH (ft)	SOIL DESCRIPTION	U (tsf)	M (SPT)	DEPTH (ft)	SOIL DESCRIPTION	U (tsf)	M (SPT)
	Surface Water Elev. _____ ft				Surface Water Elev. _____ ft		
	Stream Bed Elev. _____ ft				Stream Bed Elev. _____ ft		
	Groundwater Elev.: _____ ft				Groundwater Elev.: _____ ft		
	First Encounter _____ ft				First Encounter _____ ft		
	Upon Completion 523.8 ft				Upon Completion 523.8 ft		
	After _____ Hrs.				After _____ Hrs.		
0	Brown and Gray Silty CLAY			0	Brown and Gray Clay LOAM (continued)	4	1.8
4				5		5	S/10
5		1.9	20	19	Gray Clay LOAM	34	5.6
9		S/15		44		44	S/5
4				19			
4		2.4	25	20		20	5.0
6		B		34		34	S/10
2							
2		2.1	25				
3		S/15					
1							
2		0.9	25				
4		S/15					
3							
5		1.6	23				
4		B					
3							
3		1.7	22				
4		S/15					
1							
3		1.1	23				
4		S/15					
2							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 9/14/98

ROUTE FAI 55 DESCRIPTION Sign Truss Ramp C - Northbound Homestead Rest Area LOGGED BY Larry Ford

SECTION 60-1RA,SG LOCATION SEC. 23, TWP. 5N, RNG. 7W, 3rd PM, Latitude, Longitude

COUNTY Madison DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. N/A
Station N/A
BORING NO. B-2
Station 102+25
Offset 15.0 ft Right BL
Ground Surface Elev. 533.40 ft

DEPTH (ft)	SOIL DESCRIPTION	U (tsf)	M (SPT)	DEPTH (ft)	SOIL DESCRIPTION	U (tsf)	M (SPT)
	Surface Water Elev. _____ ft				Surface Water Elev. _____ ft		
	Stream Bed Elev. _____ ft				Stream Bed Elev. _____ ft		
	Groundwater Elev.: _____ ft				Groundwater Elev.: _____ ft		
	First Encounter _____ ft				First Encounter _____ ft		
	Upon Completion 518.4 ft				Upon Completion 518.4 ft		
	After _____ Hrs.				After _____ Hrs.		
0	Brown and Gray Silty CLAY			0	Brown Clay LOAM (continued)	15	4.4
3				34		34	S/10
3				18			
5		1.8	24	31	Gray Clay LOAM	31	4.8
5		S/10		37		37	S/5
3				20			
4		0.8	23	22		22	4.6
4		B		27		27	S/10
2							
4		1.4	22				
5		B					
2							
4		1.3	31				
5		S/20					
3							
3		1.5	23				
5		S/15					
1							
4		1.1	15				
5		S/15					
5							
7		2.1	13				
12		B					
10							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

MODEL: I:\MODELS\M1615
FILE: I:\MODELS\M1615



USER NAME = \$USERS	DESIGNED - AM/HM	REVISED -
DRAWN - AM	CHECKED - KK/HM	REVISED -
PLOT SCALE = \$SCALES	DATE - 01/31/23	REVISED -
PLOT DATE = \$DATES		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	60-(1,2) HL-1	MADISON	12	7
CONTRACT NO. 76R27			ILLINOIS FED. AID PROJECT	

SBL-01

