F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-94	2016-071L	COOK	84	1
	ILLINOIS	CONTRACT NO. 62D82		

D-91-105-17
C-91-105-17

DESIGN DESIGNATION 09-22-2023 LETTING ITEM 011

I-94 - ACCESS CONTROLLED INTERSTATE

TRAFFIC VOLUME

I-94 /DUNDEE ROAD - 102,650 (2021 AADT)
I-94 /TOWER ROAD - 94,450 (2021 AADT)
I-94 /LAKE AVE - 101,600 (2021 AADT)

POSTED SPEED LIMIT

I-94 - 55 MPH

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

IMPROVEMENTS LOCATED IN THE VILLAGES OF NORTHBROOK, NORTHFIELD, AND WILMETTE

JACOBS ENGINEERING, INC.
MARA KIRBY, P.E.
IL. LIC. NO. 062-068179
EXPIRES 11-30-2023
SIGNATURE:
JUNE 20, 2023
DATE:
DRAWINGS: 1-27

LICENSED PROFESSIONAL ENGINEER MARA KIRBY 062-068179 STATE OF ILLINOIS

SINGH & ASSOCIATES, INC.
RASHESHKUMAR D. PATEL, P.E.
IL. LIC. NO. 062-064617
EXPIRES 11-30-2023
SIGNATURE:
JUNE 30, 2023
DATE:
DRAWINGS: 28-84

RASHESHKUMAR D. PATEL 062-064617 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

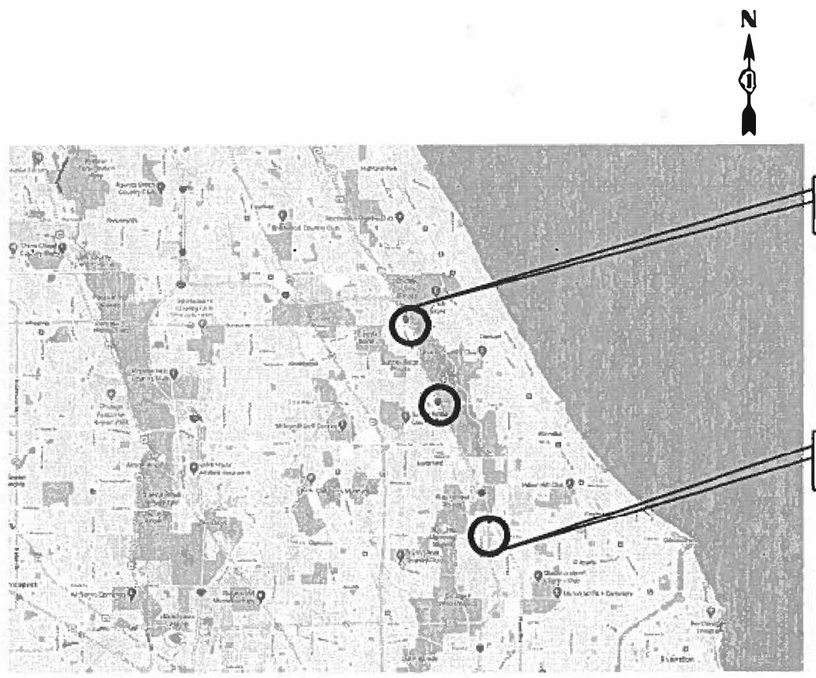
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAI ROUTE 94 (I-94/US41) AT LAKE AVE, TOWER RD, AND DUNDEE RD INTERCHANGES
SECTION 2016-071L
PROJECT HSIP-FZAB(086)
LED LIGHTING
COOK COUNTY

C-91-105-17

LOCATION OF SECTION INDICATED THUS:-



GROSS LENGTH = 27800 FT. ≈ 5.27 MILES
NET LENGTH = 18300 FT. ≈ 3.47 MILES
NOT TO SCALE

100' 200' 300' — 1" = 100'
0 10' 20' 30' — 1" = 10'
0 50' 100' — 1" = 50'
0 50' 100' — 1" = 40'
0 50' 100' — 1" = 30'
0 50' 100' — 1" = 20'

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

MEADE ELECTRIC CO. DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR LOCATES IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES 773-287-7672

PROJECT MANAGER: TONY GODINHO 847-705-4442
ELECTRICAL ENGINEER: TONY GODINHO 847-705-4442
CONTRACT NO. 62D82

Jacobs
525 W. MONROE SUITE 1600
CHICAGO, ILLINOIS 60661
TELEPHONE: 312.251.3000
ILLINOIS PROESSIONAL DESIGN FIRM
REGISTRATION NO. 184.000942

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED June 29 20 23
REGIONAL ENGINEER
August 18, 2023
ENGINEER OF DESIGN AND ENVIRONMENT
August 18, 2023
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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IDOT HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-02	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701106-05	OFF-RD OPERATIONS MULTILANE, MORE THAN 15' AWAY
701400-11	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT FREEWAY ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701446-11	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERABLE MEDIAN
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES

NOTICE TO UTILITY COMPANIES

THE DESIGN INTENT OF THIS PROJECT IS NOT TO REQUIRE ANY UTILITY RELOCATIONS.
DETAILS ON DEPTH OF FOUNDATIONS AND CONDUIT INSTALLATION ARE AS FOLLOWS:

DESCRIPTION	MAX DEPTH
HELIX LIGHT POLE FOUNDATION	8 FT
CONDUIT	3 FT

DISTRICT 1 STANDARDS

TC-08	ENTRANCE AND EXIT RAMP CLOSURE DETAILS
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-17	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
TC-18	FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ON FREEWAYS/EXPRESSWAYS
BE-206	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL) RADIO SCADA - FIBER OPTIC PROVISION
BE-220	ELECTRICAL SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT
BE-305	LIGHT POLE FOUNDATION, METAL
BE-400	ALUMINUM LIGHT POLE 47'-6" MOUNTING HEIGHT
BE-701	LUMINAIRE SAFETY CABLE ASSEMBLY
BE-702	MISC. ELECTRICAL DETAILS SHEET A
BE-901	SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS

GENERAL NOTES

1. SEVENTY-TWO (72) HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR SHALL CALL JULIE AT 1-800-892-0123 TO HAVE THE LOCATION OF EXISTING UNDERGROUND UTILITIES MARKED IN THE FIELD. THE CONTRACTOR SHALL CALL THE IDOT ELECTRICAL MAINTENANCE CONTRACTOR TO LOCATE IDOT MAINTAINED EQUIPMENT AND UNDERGROUND CONDUIT AND CABLES.

2. A MINIMUM OF SEVENTY-TWO HOURS PRIOR TO ANY PLACEMENT OR RELOCATION OF MAINTENANCE OF TRAFFIC DEVICES, CONTACT ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) DISTRICT 1 BUREAU OF TRAFFIC.

3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO PERFORM WORK.

4. EXCEPT WHERE DESIGNATED OTHERWISE, THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM OFFICE RECORD INFORMATION FURNISHED BY THE UTILITY OWNERS AND THE SUBSURFACE UTILITY ENGINEERING (SUE) SURVEYS. ALL UNDERGROUND UTILITIES MUST BE CONSIDERED APPROXIMATE.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN IN THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK WILL BE AT THE CONTRACTOR'S EXPENSE.

6. THE CONTRACTOR SHALL COORDINATE WORK WITH UTILITIES IN ADVANCE OF WORKING IN THE VICINITY OF THEIR FACILITIES. COORDINATION EFFORTS SHALL BE INCLUDED IN THE COST OF THE CONTRACT BID PRICE.

7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.

8. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

9. ALL HORIZONTAL DATUM ARE BASED ON NORTH AMERICAN DATUM OF 1983 (NAD 83). ALL VERTICAL DATUM ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).

10. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC, AIR TRAFFIC, AND ADJOINING COMMERCIAL AND RESIDENTIAL AREAS.

11. THE CONTRACTOR SHALL REQUEST AND GAIN APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT WWW.IDOTLCS.COM TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL DAILY LANE, RAMP AND SHOULDER CLOSURES AND 7 DAYS IN ADVANCE OF ALL PERMANENT AND WEEKEND CLOSURES ON ALL FREEWAYS AND/OR EXPRESSWAYS IN DISTRICT ONE. THIS ADVANCE NOTIFICATION IS CALCULATED BASED ON WORKWEEK OF MONDAY THROUGH FRIDAY AND SHALL NOT INCLUDE WEEKENDS OR HOLIDAYS.

12. RESTORATION OF DISTURBED AREAS SHALL BE INCLUDED IN THE RELATED PAY ITEMS AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL DAMAGED SURFACES SUCH AS PAVEMENT, SHOULDERS, MEDIANS, AND BARRIER WALLS SHALL BE REPLACED IN KIND. ALL DISTURBED EARTH SURFACES SHALL RECEIVE PROPER EROSION CONTROL MEASURES AND SHALL BE SEEDED IN ACCORDANCE WITH A PLAN DEVELOPED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER AND NO EXTRA COMPENSATION SHALL BE ALLOWED.

13. THE CONTRACTOR SHALL AVOID TRENCHING THROUGH WETLAND AREAS, ROADSIDE DITCHES, AND RETENTION PONDS AND SHALL NOT IMAPACT WETLAND AREAS. WETLANDS SHALL BE PROTECTED FROM ANY WORK WITHIN THE IMMEDIATE VICINITY OF THE WETLAND LIMITS AND NO EXTRA COMPENSATION SHALL BE ALLOWED.

COMMITMENTS

1. PACE BUS OPERATES ON THE RIGHT SHOULDER BETWEEN DUNDEE ROAD AND CICERO AVE. THE CONTRACTOR MUST CONTACT THE PACE OPERATIONS CENTER AT (847) 724-4144 72 HOURS IN ADVANCE OF ANY SHOULDER CLOSURES.

	CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION CODE					
					90% FEDERAL 10% STATE	90% FEDERAL 10% STATE				
					COOK	COOK				
					0021	0044				
					LIGHTING	OTHER / SIGNAGE				
	20101400	NITROGEN FERTILIZER NUTRIENT	POUND	5		5				
	20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	5		5				
	21101685	TOPSOIL FURNISH AND PLACE, 24"	SQ YD	262		262				
	25000210	SEEDING, CLASS 2A	ACRE	0.25		0.25				
	25100630	EROSION CONTROL BLANKET	SQ YD	262		262				
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	120		120				
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	6		6				
*	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	15		15				
	67100100	MOBILIZATION	L SUM	1		1				
	70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1					
*	72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	73		73				
*	72400720	RELOCATE SIGN PANEL - TYPE 2	SQ FT	60		60				
	80400100	ELECTRIC SERVICE INSTALLATION	EACH	3	3					

* SPECIALTY ITEM

	CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION CODE					
					90% FEDERAL 10% STATE	90% FEDERAL 10% STATE				
					COOK	COOK				
					0021	0044				
					LIGHTING	OTHER / SIGNAGE				
*	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1	1					
	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	2,373	2,373					
	81100320	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	1,243	1,243					
	81100805	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	106	106					
	81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	13	13					
	81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	11	11					
	81300830	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	4	4					
	81603081	UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	41,447	41,447					
	81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	5,272	5,272					
	81702220	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C 350MCM	FOOT	1,218	1,218					
	82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	198	198					
	82110027	LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION E	EACH	13	13					
	83050810	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM	EACH	182	182					
	83600365	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10" X 8'	EACH	182	182					
	83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	182	182					

	CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION CODE					
					90% FEDERAL 10% STATE	90% FEDERAL 10% STATE				
					COOK	COOK				
					0021	0044				
					LIGHTING	OTHER / SIGNAGE				
	84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	1	1					
	84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	66	66					
	84200804	REMOVAL OF POLE FOUNDATION	EACH	27	27					
	84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	3	3					
	84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	3	3					
	84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	3	3					
*	X0100003	CLEARING AND GRUBBING	SQ YD	100		100				
*	X0327234	LIGHTING UNIT IDENTIFICATION DECAL	EACH	4	4					
*	X1400190	REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE	EACH	91	91					
*	X1400341	REMOVAL OF LUMINAIRE, SALVAGE	EACH	119	119					
*	X1400402	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL), RADIO SCADA, FIBER OPTIC	EACH	3	3					
*	X1400507	REMOVAL OF TRANSFORMER BASE, SALVAGE	EACH	27	27					
*	X1400509	REMOVAL OF LIGHTING ARM, NO SALVAGE	EACH	8	8					
*	X1400510	6 FT DUAL MAST ARMS, ALUMINUM, 180 DEGREES APART	EACH	8	8					
*	X1700123	CONCRETE BARRIER WALL REPAIR	EACH	39	39					

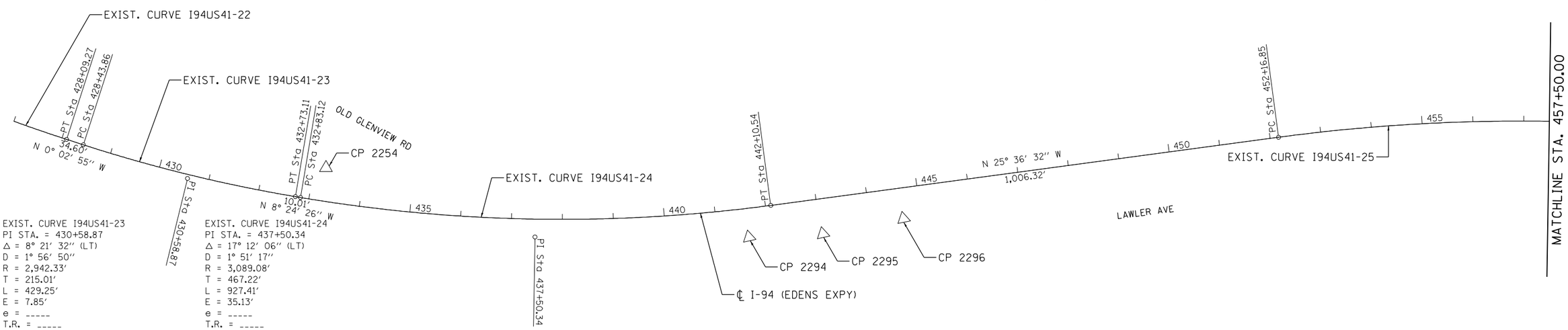
	CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION CODE					
					90% FEDERAL 10% STATE	90% FEDERAL 10% STATE				
					COOK	COOK				
					0021	0044				
					LIGHTING	OTHER / SIGNAGE				
*	X6700410	ENGINEER'S FIELD OFFICE, TYPE A (SPECIAL)	CAL MO	15	15					
*	X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1		1				
*	X8420111	REMOVAL OF UNDERPASS LIGHTING UNIT, NO SALVAGE	EACH	12	12					
*	84200505	REMOVAL OF LIGHT TOWER, SALVAGE	EACH	23	23					
*	X8420510	REMOVAL OF TOWER FOUNDATION	EACH	23	23					
*	Z0013798	CONSTRUCTION LAYOUT	L SUM	1		1				
*	Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	198	198					
*	Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	15	15					
Ø	Z0076600	TRAINEES	HOURS	1000	1000					
Ø	Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	1000	1000					
	70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1					
	70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1					
	70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1					
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1					

Ø 0042

S00–04

CURVE I94US41-23		
STATION	NORTHING	EASTING
P.I. 430+58.87	1,966,635.88	1,141,349.23
P.C. 428+43.86	1,966,420.87	1,141,349.41
P.T. 432+73.11	1,966,848.58	1,141,317.80

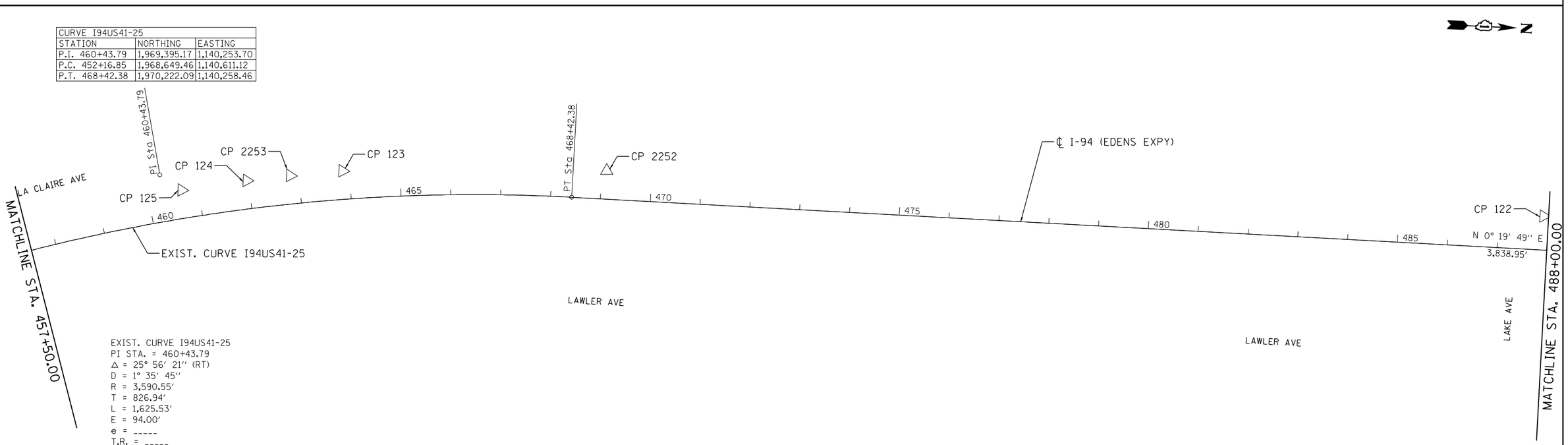
CURVE I94US41-24		
STATION	NORTHING	EASTING
P.I. 437+50.34	1,967,320.68	1,141,248.02
P.C. 432+83.12	1,966,858.48	1,141,316.33
P.T. 442+10.54	1,967,742.00	1,141,046.07



EXIST. CURVE I94US41-23
PI STA. = 430+58.87
Δ = 8° 21′ 32″ (LT)
D = 1° 56′ 50″
R = 2,942.33′
T = 215.01′
L = 429.25′
E = 7.85′
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 428+43.86
P.T. STA. = 432+73.11

EXIST. CURVE I94US41-24
PI STA. = 437+50.34
Δ = 17° 12′ 06″ (LT)
D = 1° 51′ 17″
R = 3,089.08′
T = 467.22′
L = 927.41′
E = 35.13′
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 432+83.12
P.T. STA. = 442+10.54

CURVE I94US41-25		
STATION	NORTHING	EASTING
P.I. 460+43.79	1,969,395.17	1,140,253.70
P.C. 452+16.85	1,968,649.46	1,140,611.12
P.T. 468+42.38	1,970,222.09	1,140,258.46



EXIST. CURVE I94US41-25
PI STA. = 460+43.79
Δ = 25° 56′ 21″ (RT)
D = 1° 35′ 45″
R = 3,590.55′
T = 826.94′
L = 1,625.53′
E = 94.00′
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 452+16.85
P.T. STA. = 468+42.38

ATB–01

pw:\\Project\Wsap\MER.jacobs.com\M1\Documents\C9X28608.I-94.US.41\C9X28608\708cadd\703elect\Lighting Plans (50 Scale)\62D82 HML T replacement\C01.D162D82-alt-ATB.001.dgn

Jacobs	USER NAME = OGORMAN	DESIGNED - GL	REVISED -
		DRAWN - GL	REVISED -
	PLOT SCALE =	CHECKED - MMK	REVISED -
	PLOT DATE = 6/23/2023	DATE - 01/31/2023	REVISED -

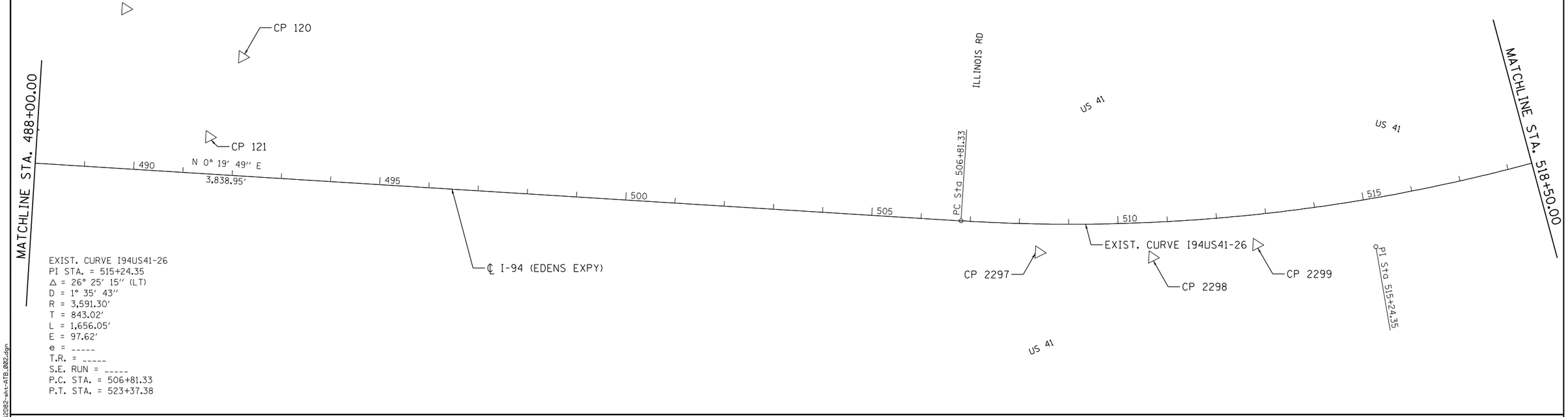
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS

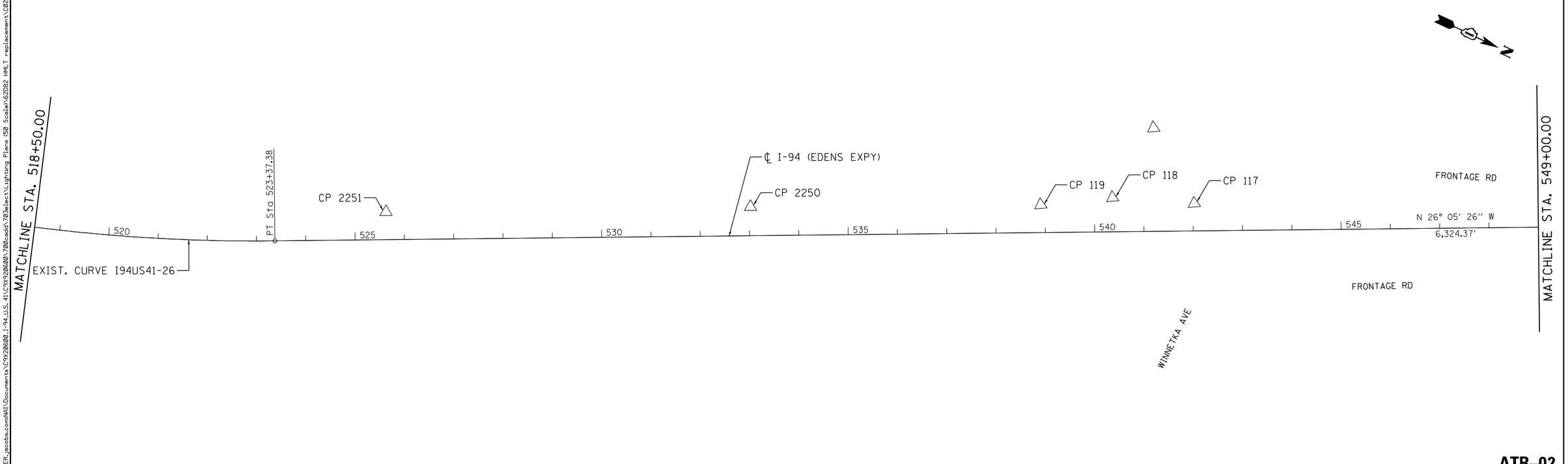
SCALE: 1"=100′ SHEET 1 OF 9 SHEETS STA. 427+00.00 TO STA. 488+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-94	2016-071L	COOK	84	8
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

CURVE I94US41-26		
STATION	NORTHING	EASTING
P.I. 515+24.35	1,974,903.98	1,140,285.46
P.C. 506+81.33	1,974,060.97	1,140,280.60
P.T. 523+37.38	1,975,661.09	1,139,914.71



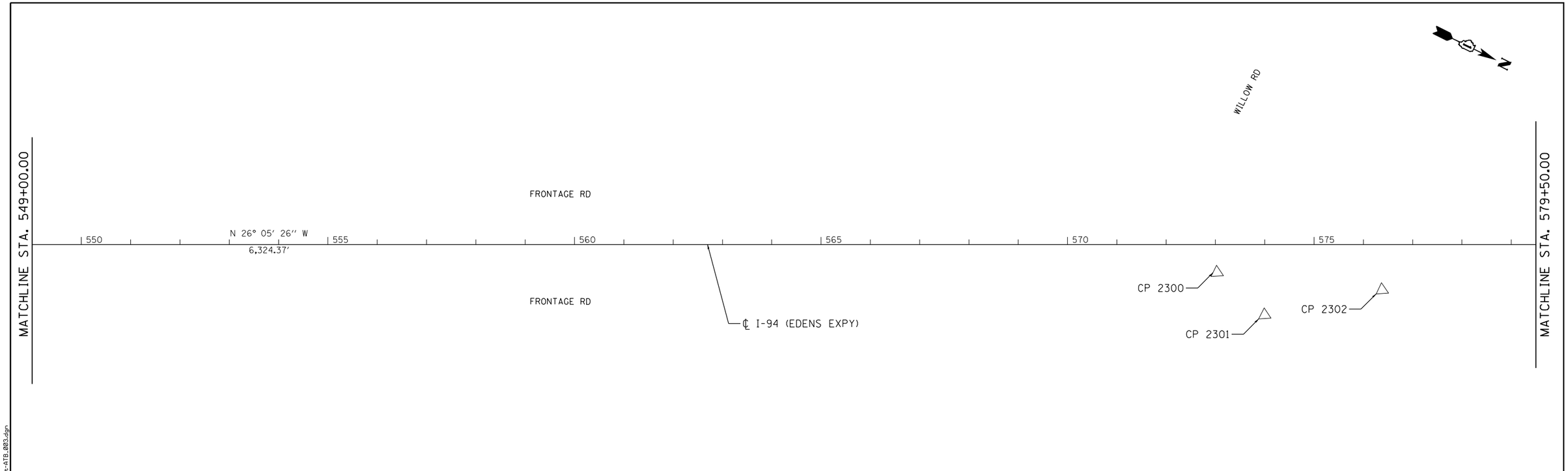
EXIST. CURVE I94US41-26
PI STA. = 515+24.35
Δ = 26° 25′ 15″ (LT)
D = 1° 35′ 43″
R = 3,591.30′
T = 843.02′
L = 1,656.05′
E = 97.62′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 506+81.33
P.T. STA. = 523+37.38



ATB–02

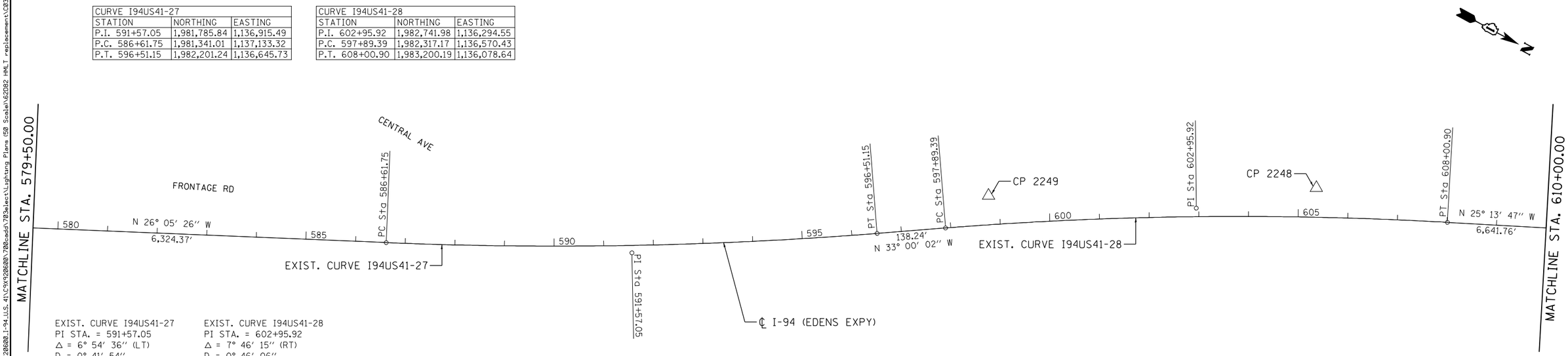
pw:\\Projects\WiseaMER_jacobs.com\NA1\Documents\C9X20600_I-94_U.S._41\C9X20600\700add\703select\Lighting Plans (50 Scale)\62D82 HMLT replacement\C02_D1B2D82-sht-ATB_002.dgn

Jacobs	USER NAME = OGORMAN	DESIGNED - GL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT, TIES AND BENCHMARKS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - GL	REVISED -			I-94	2016-071L	COOK	84	9
	PLOT SCALE =	CHECKED - MMK	REVISED -					CONTRACT NO. 62D82		
	PLOT DATE = 6/23/2023	DATE - 01/31/2023	REVISED -		SCALE: 1"=100′ SHEET 2 OF 9 SHEETS STA. 488+00.00 TO STA. 549+00.00		ILLINOIS FED. AID PROJECT			



CURVE I94US41-27		
STATION	NORTHING	EASTING
P.I. 591+57.05	1,981,785.84	1,136,915.49
P.C. 586+61.75	1,981,341.01	1,137,133.32
P.T. 596+51.15	1,982,201.24	1,136,645.73

CURVE I94US41-28		
STATION	NORTHING	EASTING
P.I. 602+95.92	1,982,741.98	1,136,294.55
P.C. 597+89.39	1,982,317.17	1,136,570.43
P.T. 608+00.90	1,983,200.19	1,136,078.64



EXIST. CURVE I94US41-27
PI STA. = 591+57.05
Δ = 6° 54′ 36″ (LT)
D = 0° 41′ 54″
R = 8,203.72′
T = 495.30′
L = 989.40′
E = 14.94′
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 586+61.75
P.T. STA. = 596+51.15

EXIST. CURVE I94US41-28
PI STA. = 602+95.92
Δ = 7° 46′ 15″ (RT)
D = 0° 46′ 06″
R = 7,458.13′
T = 506.53′
L = 1,011.51′
E = 17.18′
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 597+89.39
P.T. STA. = 608+00.90

ATB–03

USER NAME = OGORMAN	DESIGNED - GL	REVISED -	
	DRAWN - GL	REVISED -	
PLOT SCALE =	CHECKED - MMK	REVISED -	
PLOT DATE = 6/23/2023	DATE - 01/31/2023	REVISED -	

Jacobs

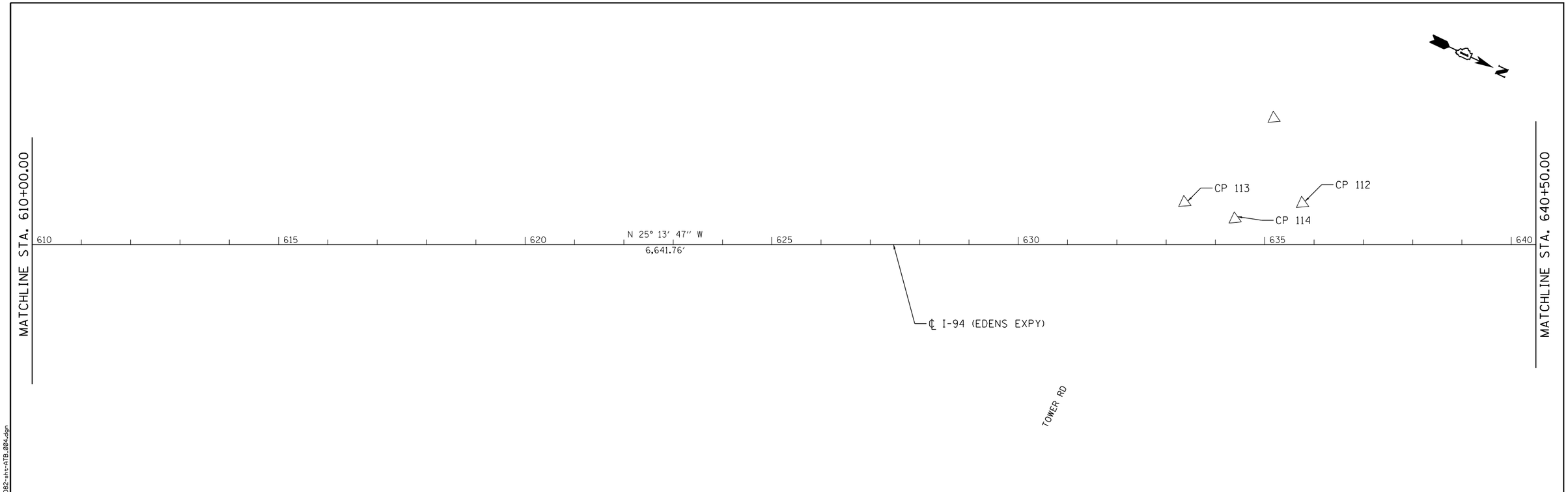
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

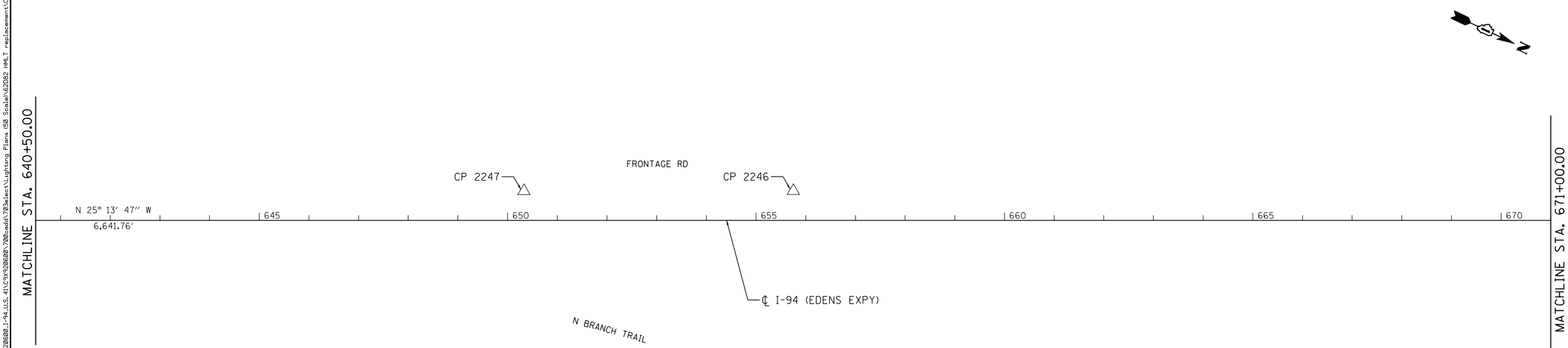
ALIGNMENT, TIES AND BENCHMARKS

SCALE: 1"=100′ SHEET 3 OF 9 SHEETS STA. 549+00.00 TO STA. 610+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-94	2016-071L	COOK	84	10
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

pw:\\Project\Wsedmer_jacobs.com:M1\Documents\C9X28680\I-94_U.S. 41\C9X28680\708cadd\703select\Lighting Plans (GR Scale)\62D82 HMLT replacement\C03_D162D82-ahc-ATB_003.dgn



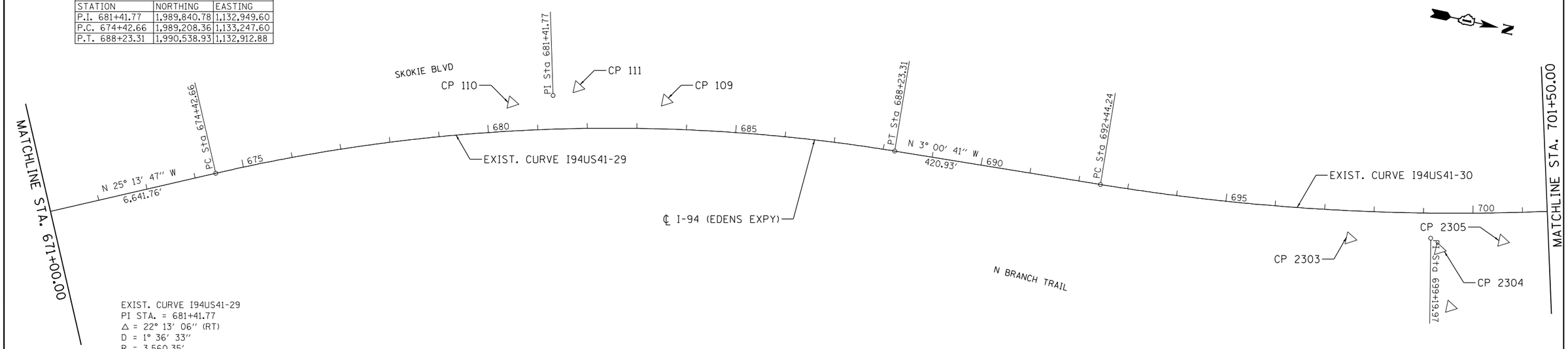


ATB–04

Jacobs	USER NAME = OGORMAN	DESIGNED - GL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT, TIES AND BENCHMARKS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - GL	REVISED -			I-94	2016-071L	COOK	84	11
	PLOT SCALE =	CHECKED - MMK	REVISED -					CONTRACT NO. 62D82		
	PLOT DATE = 6/23/2023	DATE - 01/31/2023	REVISED -		SCALE: 1"=100' SHEET 4 OF 9 SHEETS STA. 610+00.00 TO STA. 671+00.00		ILLINOIS FED. AID PROJECT			

pw:\\Projects\Wsea\MER_jacobs.com\NA\Documents\C9X20600_I-94_U.S._41\C9X20600\700addd\703select\Lighting Plans (50 Scale)\62D82 HMLT replacement\C04_D162D82-ahc-ATB_004.dgn

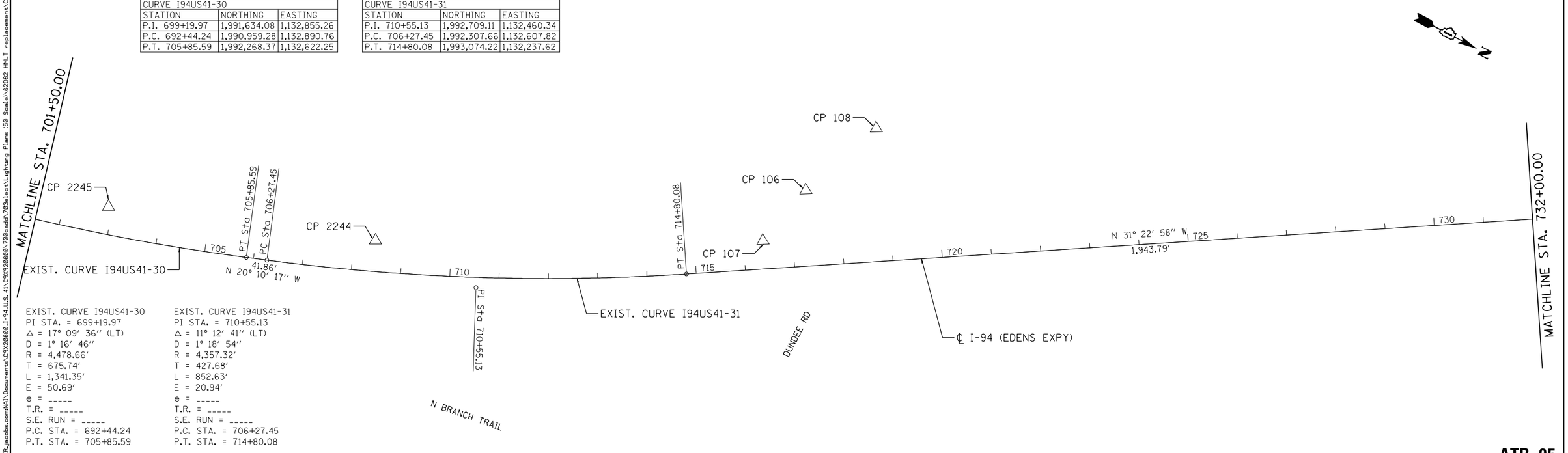
CURVE I94US41-29		
STATION	NORTHING	EASTING
P.I. 681+41.77	1,989,840.78	1,132,949.60
P.C. 674+42.66	1,989,208.36	1,133,247.60
P.T. 688+23.31	1,990,538.93	1,132,912.88



EXIST. CURVE I94US41-29
PI STA. = 681+41.77
Δ = 22° 13′ 06″ (RT)
D = 1° 36′ 33″
R = 3,560.35′
T = 699.11′
L = 1,380.65′
E = 67.99′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 674+42.66
P.T. STA. = 688+23.31

CURVE I94US41-30		
STATION	NORTHING	EASTING
P.I. 699+19.97	1,991,634.08	1,132,855.26
P.C. 692+44.24	1,990,959.28	1,132,890.76
P.T. 705+85.59	1,992,268.37	1,132,622.25

CURVE I94US41-31		
STATION	NORTHING	EASTING
P.I. 710+55.13	1,992,709.11	1,132,460.34
P.C. 706+27.45	1,992,307.66	1,132,607.82
P.T. 714+80.08	1,993,074.22	1,132,237.62



EXIST. CURVE I94US41-30
PI STA. = 699+19.97
Δ = 17° 09′ 36″ (LT)
D = 1° 16′ 46″
R = 4,478.66′
T = 675.74′
L = 1,341.35′
E = 50.69′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 692+44.24
P.T. STA. = 705+85.59

EXIST. CURVE I94US41-31
PI STA. = 710+55.13
Δ = 11° 12′ 41″ (LT)
D = 1° 18′ 54″
R = 4,357.32′
T = 427.68′
L = 852.63′
E = 20.94′
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 706+27.45
P.T. STA. = 714+80.08

ATB–05

pw:\\Project-Wise@MER.jacobs.com\NA1\Documents\C9X20608_I-94_US_41\C9X20608\700.cadd\783elect\Lighting Plans (58 Scale)\62D82 HMLT replacement\C05.D162D82-ahc-ATB_005.dgn

Jacobs

USER NAME = OGORMAN	DESIGNED - GL	REVISED -	
	DRAWN - GL	REVISED -	
PLOT SCALE =	CHECKED - MMK	REVISED -	
PLOT DATE = 6/23/2023	DATE - 01/31/2023	REVISED -	

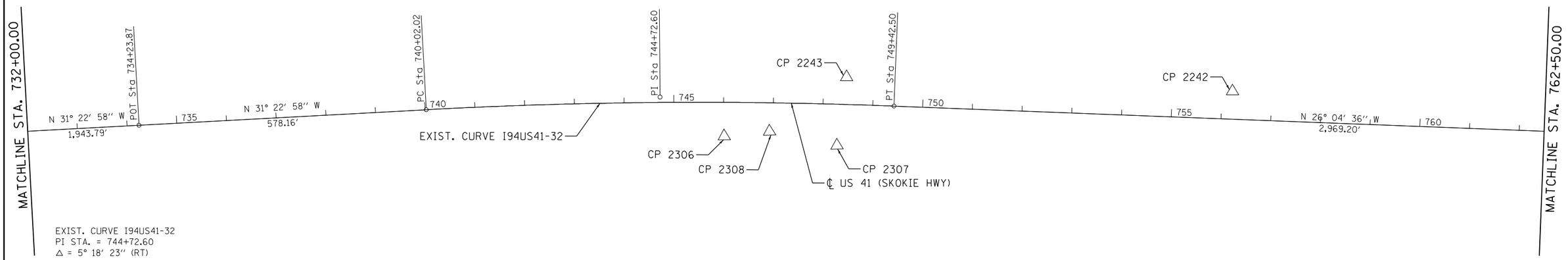
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS

SCALE: 1"=100′ SHEET 5 OF 9 SHEETS STA. 671+00.00 TO STA. 732+00.00

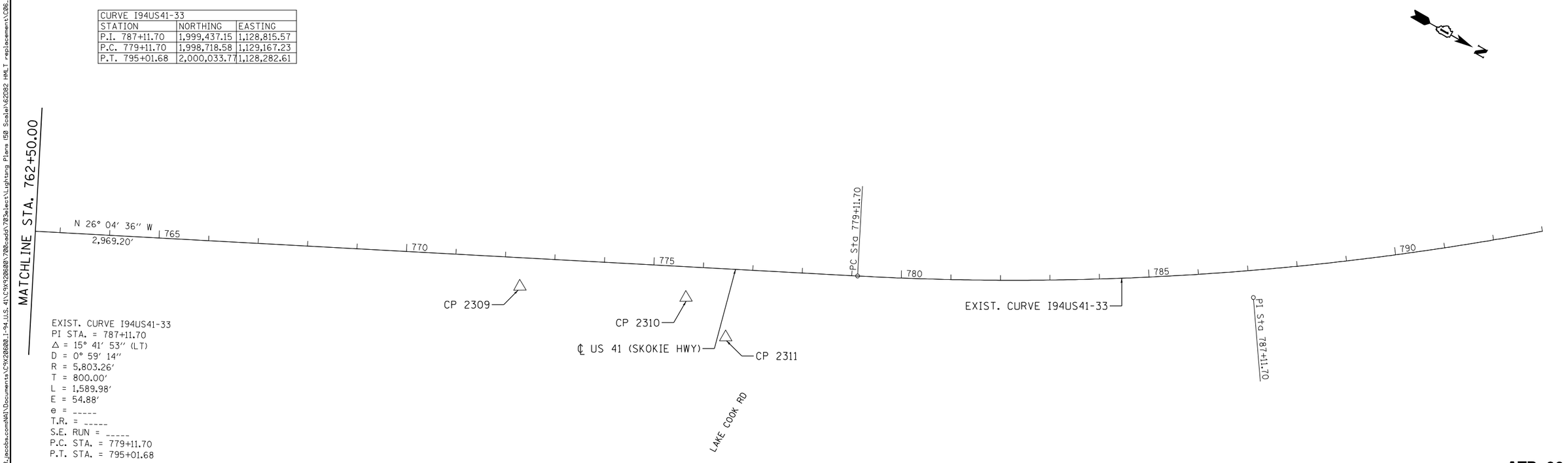
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-94	2016-071L	COOK	84	12
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

CURVE I94US41-32		
STATION	NORTHING	EASTING
P.I. 744+72.60	1,995,628.95	1,130,679.26
P.C. 740+02.02	1,995,227.22	1,130,924.31
P.T. 749+42.50	1,996,051.62	1,130,472.41



EXIST. CURVE I94US41-32
PI STA. = 744+72.60
Δ = 5° 18′ 23″ (RT)
D = 0° 33′ 51″
R = 10,154.94′
T = 470.57′
L = 940.47′
E = 10.90′
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 740+02.02
P.T. STA. = 749+42.50

CURVE I94US41-33		
STATION	NORTHING	EASTING
P.I. 787+11.70	1,999,437.15	1,128,815.57
P.C. 779+11.70	1,998,718.58	1,129,167.23
P.T. 795+01.68	2,000,033.77	1,128,282.61



EXIST. CURVE I94US41-33
PI STA. = 787+11.70
Δ = 15° 41′ 53″ (LT)
D = 0° 59′ 14″
R = 5,803.26′
T = 800.00′
L = 1,589.98′
E = 54.88′
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 779+11.70
P.T. STA. = 795+01.68

ATB–06

Jacobs

USER NAME = OGORMAN	DESIGNED - GL	REVISED -
	DRAWN - GL	REVISED -
PLOT SCALE =	CHECKED - MMK	REVISED -
PLOT DATE = 6/23/2023	DATE - 01/31/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS

SCALE: 1″=100′ SHEET 6 OF 9 SHEETS STA. 732+00.00 TO STA. 793+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-94	2016-071L	COOK	84	13

CONTRACT NO. 62D82

ILLINOIS FED. AID PROJECT

pw:\\Projects\aseAMER.jacobs.com\NA1\Documents\C9X20620_I-94_US_41\C9X20620\700.cadd\783select\Lighting Plans (58 Scale)\62D82 HMLT replacement\C06.D62D82-sht-ATB.006.dgn

EXIST. CURVE LAKE-A1
PI STA. = 4205+64.25
¬ = 79° 27' 40" (RT)
D = 15° 22' 27"
R = 372.68'
T = 309.74'
L = 516.85'
E = 111.91'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 4202+54.51
P.T. STA. = 4207+71.36

EXIST. CURVE LAKE-A2
PI STA. = 4211+45.31
¬ = 2° 36' 16" (RT)
D = 0° 20' 54"
R = 16,449.86'
T = 373.95'
L = 747.77'
E = 4.25'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 4207+71.36
P.T. STA. = 4215+19.13

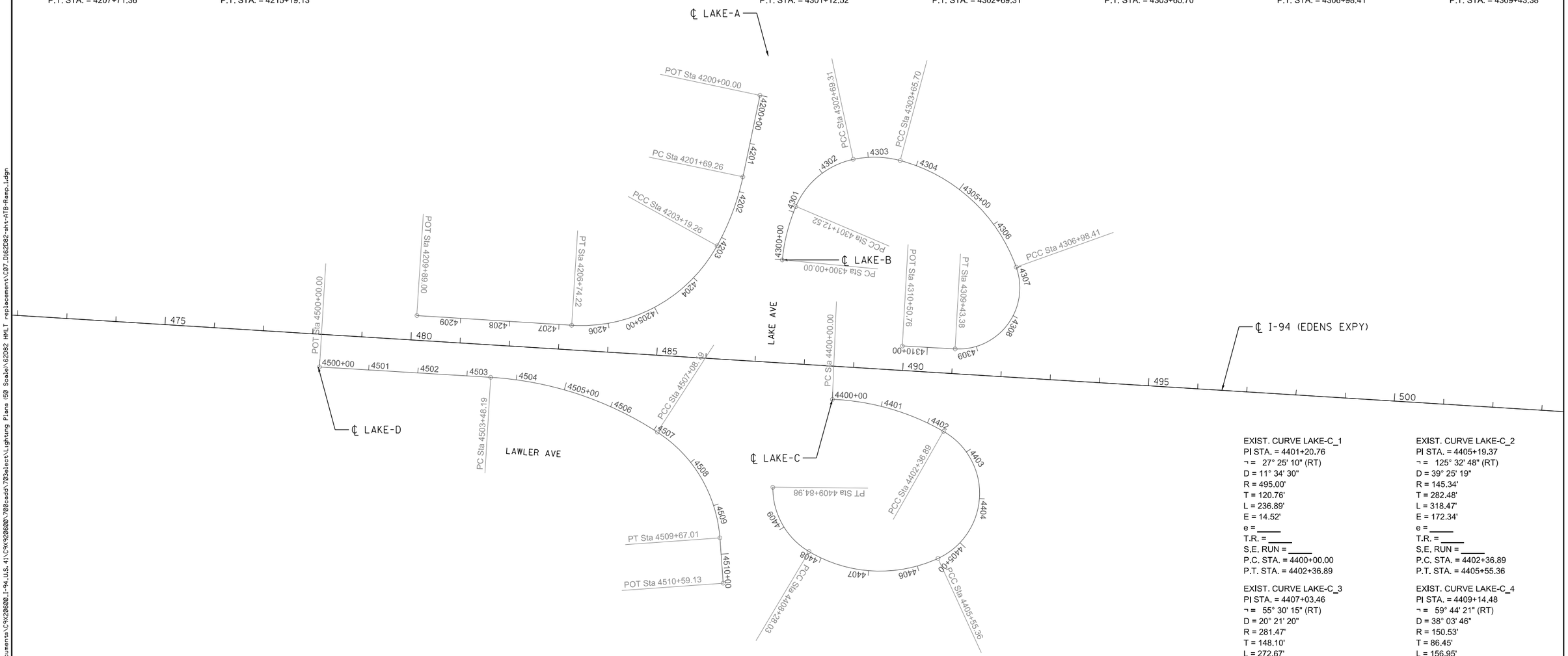
EXIST. CURVE LAKE-B_1
PI STA. = 4300+56.71
¬ = 17° 40' 21" (RT)
D = 15° 42' 19"
R = 364.82'
T = 56.71'
L = 112.52'
E = 4.38'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 4300+00.00
P.T. STA. = 4301+12.52

EXIST. CURVE LAKE-B_2
PI STA. = 4301+97.56
¬ = 55° 02' 28" (RT)
D = 35° 06' 19"
R = 163.21'
T = 85.04'
L = 156.79'
E = 20.82'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 4301+12.52
P.T. STA. = 4302+69.31

EXIST. CURVE LAKE-B_3
PI STA. = 4303+18.41
¬ = 26° 47' 59" (RT)
D = 27° 48' 14"
R = 206.07'
T = 49.09'
L = 96.39'
E = 5.77'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 4302+69.31
P.T. STA. = 4303+65.70

EXIST. CURVE LAKE-B_4
PI STA. = 4305+46.36
¬ = 55° 24' 49" (RT)
D = 16° 39' 19"
R = 344.01'
T = 180.66'
L = 332.71'
E = 44.55'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 4303+65.70
P.T. STA. = 4306+98.41

EXIST. CURVE LAKE-B_5
PI STA. = 4308+85.80
¬ = 112° 51' 21" (RT)
D = 46° 04' 13"
R = 124.37'
T = 187.38'
L = 244.97'
E = 100.53'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 4306+98.41
P.T. STA. = 4309+43.38



EXIST. CURVE LAKE-C_1
PI STA. = 4401+20.76
¬ = 27° 25' 10" (RT)
D = 11° 34' 30"
R = 495.00'
T = 120.76'
L = 236.89'
E = 14.52'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 4400+00.00
P.T. STA. = 4402+36.89

EXIST. CURVE LAKE-C_2
PI STA. = 4405+19.37
¬ = 125° 32' 48" (RT)
D = 39° 25' 19"
R = 145.34'
T = 282.48'
L = 318.47'
E = 172.34'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 4402+36.89
P.T. STA. = 4405+55.36

EXIST. CURVE LAKE-C_3
PI STA. = 4407+03.46
¬ = 55° 30' 15" (RT)
D = 20° 21' 20"
R = 281.47'
T = 148.10'
L = 272.67'
E = 36.59'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 4405+55.36
P.T. STA. = 4408+28.03

EXIST. CURVE LAKE-C_4
PI STA. = 4409+14.48
¬ = 59° 44' 21" (RT)
D = 38° 03' 46"
R = 150.53'
T = 86.45'
L = 156.95'
E = 23.06'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 4408+28.03
P.T. STA. = 4409+84.98

EXIST. CURVE LAKE-D1
PI STA. = 4501+36.84
¬ = 5° 09' 45" (LT)
D = 1° 53' 16"
R = 3,035.27'
T = 136.84'
L = 273.49'
E = 3.08'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 4500+00.00
P.T. STA. = 4502+73.49

EXIST. CURVE LAKE-D2
PI STA. = 4507+60.21
¬ = 24° 30' 52" (RT)
D = 8° 56' 26"
R = 640.85'
T = 139.23'
L = 274.19'
E = 14.95'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 4506+20.99
P.T. STA. = 4508+95.18

EXIST. CURVE LAKE-D3
PI STA. = 4510+98.09
¬ = 57° 24' 11" (RT)
D = 17° 37' 58"
R = 324.94'
T = 177.91'
L = 325.55'
E = 45.52'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 4509+20.18
P.T. STA. = 4512+45.72

0 100 200 300
SCALE IN FEET

ATB-07

FILE NAME = pw:\\Pr2_pwcWseNMER_jacobs.com:NM1\Documents\C9X20608.I-94.U.S. 41\C9X920608\708cadd\703elec\Lighting Plans (50 Scale)\62D82 HMLT replacement\D07_D062D82-sht-ATB-Ramp.i.dgn

ABNA	USER NAME = OGORMAN	DESIGNED - HH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT, TIES AND BENCHMARKS RAMPS (LAKE AVE)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - HH	REVISED -			I-94	2016-07IL	COOK	84 / 14
	PLOT SCALE =	CHECKED - JPZ	REVISED -					CONTRACT NO. 62D82	
	PLOT DATE = 6/23/2023	DATE - 01/31/2023	REVISED -		SCALE: 1"=100' SHEET 7 OF 9 SHEETS STA. 488+00.00 TO STA. 549+00.00		ILLINOIS FED. AID PROJECT		

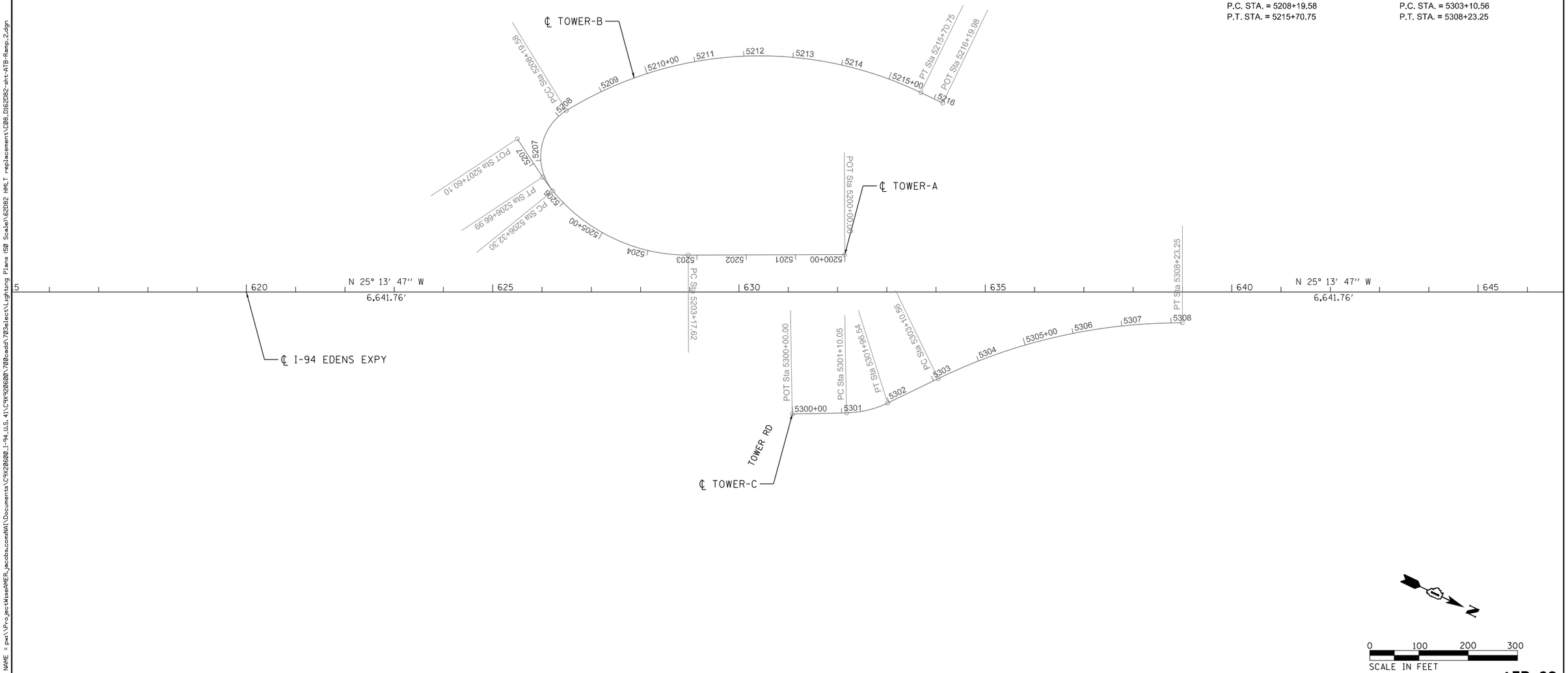
EXIST. CURVE TOWER-A_3
PI STA. = 5205+08.14
¬ = 56° 44' 59" (RT)
D = 16° 14' 36"
R = 352.74'
T = 190.52'
L = 349.37'
E = 48.17'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 5203+17.62
P.T. STA. = 5206+66.99

EXIST. CURVE TOWER-B_1
PI STA. = 5207+57.84
¬ = 97° 32' 59" (RT)
D = 52° 05' 13"
R = 110.00'
T = 125.54'
L = 187.28'
E = 56.91'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 5206+32.30
P.T. STA. = 5208+19.58

EXIST. CURVE TOWER-B_2
PI STA. = 5212+29.91
¬ = 57° 15' 57" (RT)
D = 7° 37' 25"
R = 751.56'
T = 410.33'
L = 751.17'
E = 104.72'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 5208+19.58
P.T. STA. = 5215+70.75

EXIST. CURVE TOWER-C_3
PI STA. = 5301+53.98
¬ = 24° 46' 42" (LT)
D = 28° 38' 52"
R = 200.00'
T = 43.93'
L = 86.49'
E = 4.77'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 5301+10.05
P.T. STA. = 5301+96.54

EXIST. CURVE TOWER-C_6
PI STA. = 5305+71.40
¬ = 25° 59' 44" (RT)
D = 5° 04' 14"
R = 1,130.00'
T = 260.84'
L = 512.69'
E = 29.71'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 5303+10.56
P.T. STA. = 5308+23.25

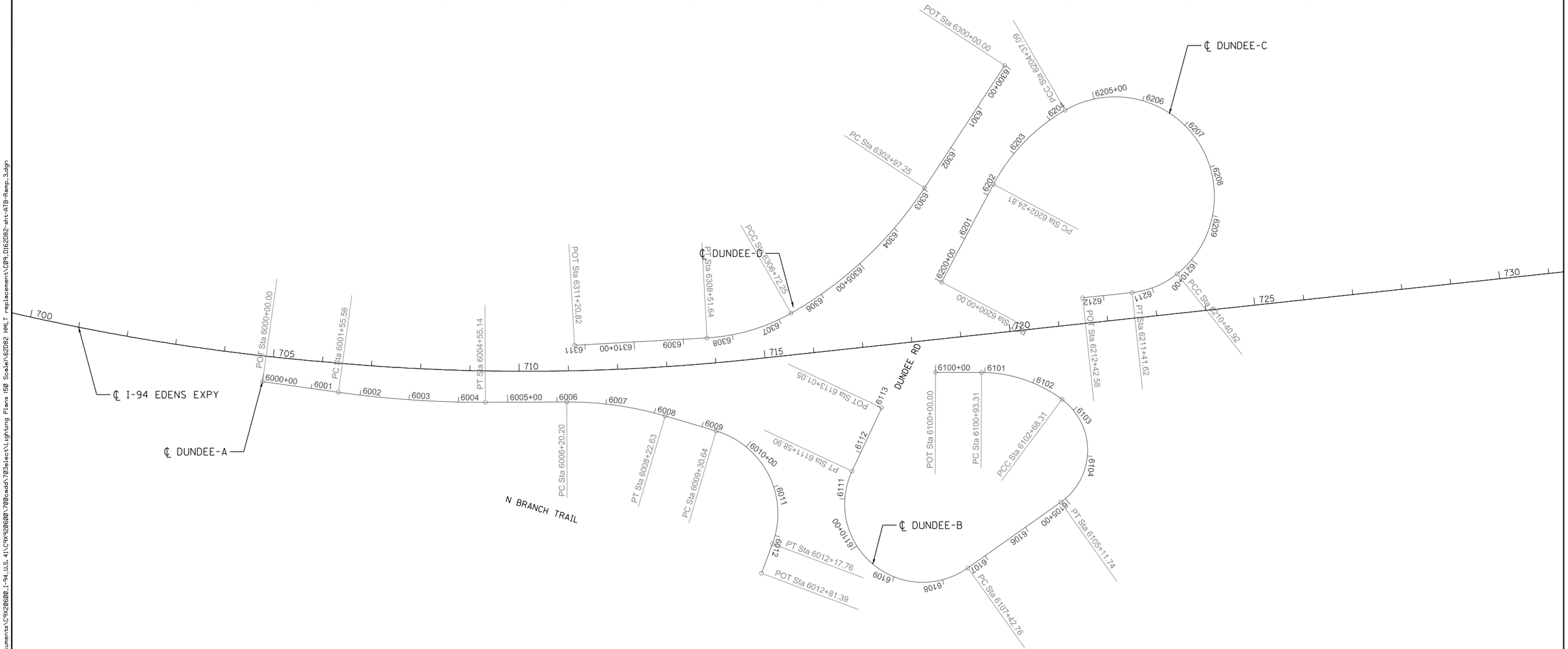


ATB-08

FILE NAME = pw:\\Project Wise AMER_jacobs.com\NA1\Documents\C9X20620_I-94_U.S.41\C9X920620\780cadd\780select\Lighting Plans (50 Scale)\62DB2 HMLT replacement\C08-D162D82-sht-ATB-Ramp_2.dgn

ABNA	USER NAME = OGORMAN	DESIGNED - HH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT, TIES AND BENCHMARKS RAMPS (TOWER RD)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - HH	REVISED -			I-94	2016-071L	COOK	84 / 15
	PLOT SCALE =	CHECKED - JPZ	REVISED -					CONTRACT NO. 62DB2	
	PLOT DATE = 6/23/2023	DATE - 01/31/2023	REVISED -		SCALE: 1"=100' SHEET 8 OF 9 SHEETS STA. 610+00.00 TO STA. 671+00.00		ILLINOIS FED. AID PROJECT		

EXIST. CURVE DUNDEE-A1	EXIST. CURVE DUNDEE-A2	EXIST. CURVE DUNDEE-A3	EXIST. CURVE DUNDEE-B1	EXIST. CURVE DUNDEE-B2	EXIST. CURVE DUNDEE-B3	EXIST. CURVE DUNDEE-C1	EXIST. CURVE DUNDEE-C2	EXIST. CURVE DUNDEE-D1	EXIST. CURVE DUNDEE-D2
PI STA. = 6003+05.61	PI STA. = 6007+22.14	PI STA. = 6011+18.35	PI STA. = 6101+69.47	PI STA. = 6104+54.46	PI STA. = 6113+44.05	PI STA. = 6203+30.97	PI STA. = 6223+24.60	PI STA. = 6306+44.82	PI STA. = 6313+71.92
¬ = 8° 15' 25" (LT)	¬ = 16° 44' 49" (RT)	¬ = 94° 01' 59" (RT)	¬ = 30° 23' 09" (RT)	¬ = 114° 00' 54" (RT)	¬ = 150° 21' 07" (RT)	¬ = 31° 13' 06" (RT)	¬ = 167° 47' 41" (RT)	¬ = 53° 36' 16" (RT)	¬ = 7° 37' 53" (RT)
D = 2° 45' 22"	D = 8° 16' 23"	D = 32° 45' 02"	D = 20° 44' 00"	D = 44° 23' 05"	D = 36° 07' 47"	D = 19° 33' 02"	D = 28° 20' 10"	D = 8° 48' 53"	D = 1° 29' 48"
R = 2,078.89'	R = 692.56'	R = 174.95'	R = 276.35'	R = 129.09'	R = 158.58'	R = 293.06'	R = 202.20'	R = 650.00'	R = 3,828.04'
T = 150.05'	T = 101.94'	T = 187.72'	T = 75.05'	T = 198.84'	T = 599.19'	T = 81.88'	T = 1,891.20'	T = 328.37'	T = 255.31'
L = 299.59'	L = 202.43'	L = 287.12'	L = 146.56'	L = 256.88'	L = 416.14'	L = 159.68'	L = 592.16'	L = 608.12'	L = 509.86'
E = 5.41'	E = 7.46'	E = 81.65'	E = 10.01'	E = 107.98'	E = 461.24'	E = 11.22'	E = 1,699.78'	E = 78.24'	E = 8.50'
e = _____	e = _____	e = _____	e = _____	e = _____	e = _____	e = _____	e = _____	e = _____	e = _____
T.R. = _____	T.R. = _____	T.R. = _____	T.R. = _____	T.R. = _____	T.R. = _____	T.R. = _____	T.R. = _____	T.R. = _____	T.R. = _____
S.E. RUN = _____	S.E. RUN = _____	S.E. RUN = _____	S.E. RUN = _____	S.E. RUN = _____	S.E. RUN = _____	S.E. RUN = _____	S.E. RUN = _____	S.E. RUN = _____	S.E. RUN = _____
P.C. STA. = 6001+55.56	P.C. STA. = 6006+20.20	P.C. STA. = 6009+30.64	P.C. STA. = 6100+94.42	P.C. STA. = 6102+55.62	P.C. STA. = 6107+44.85	P.C. STA. = 6202+49.10	P.C. STA. = 6204+33.40	P.C. STA. = 6303+16.45	P.C. STA. = 6311+16.61
P.T. STA. = 6004+55.14	P.T. STA. = 6008+22.63	P.T. STA. = 6012+17.76	P.T. STA. = 6102+40.98	P.T. STA. = 6105+12.50	P.T. STA. = 6111+60.99	P.T. STA. = 6204+08.78	P.T. STA. = 6210+25.56	P.T. STA. = 6309+24.57	P.T. STA. = 6316+26.48



0 100 200 300
SCALE IN FEET

ATB-09

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ABNA	USER NAME = OGORMAN	DESIGNED - HH	REVISED -
		DRAWN - HH	REVISED -
	PLOT SCALE =	CHECKED - JPZ	REVISED -
	PLOT DATE = 6/23/2023	DATE - 01/31/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

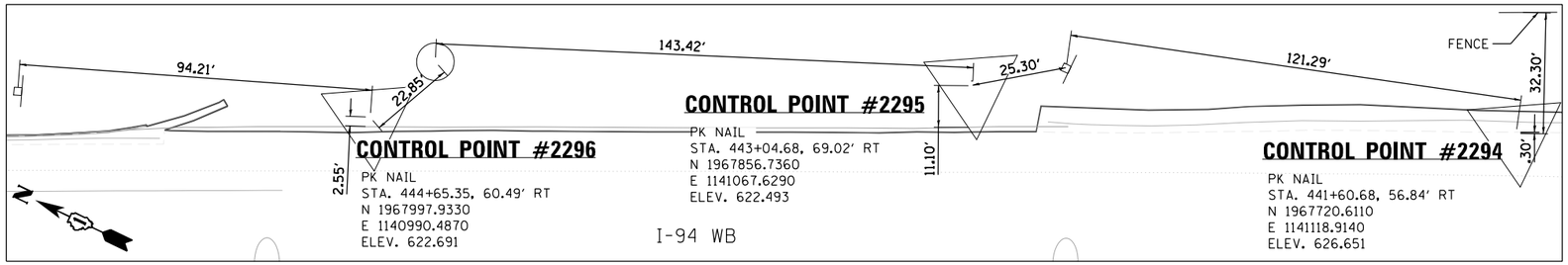
ALIGNMENT, TIES AND BENCHMARKS
RAMPS (DUNDEE RD)

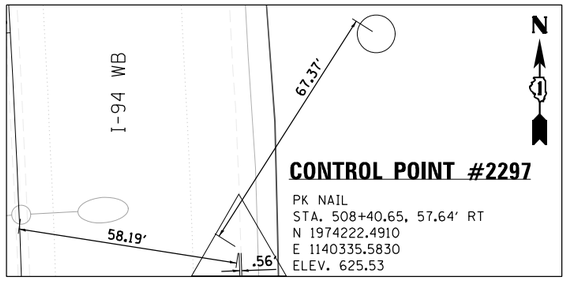
SCALE: 1"=100' | SHEET 9 OF 9 SHEETS | STA. 610+00.00 TO STA. 671+00.00

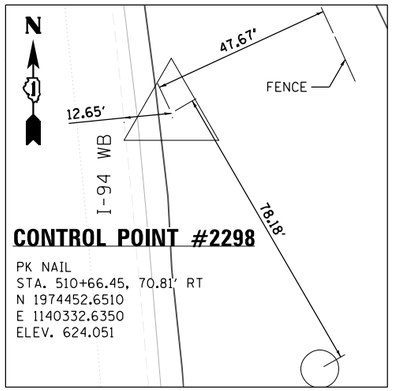
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-94	2016-071L	COOK	84	16
		CONTRACT NO. 62D82		
	ILLINOIS	FED. AID PROJECT		

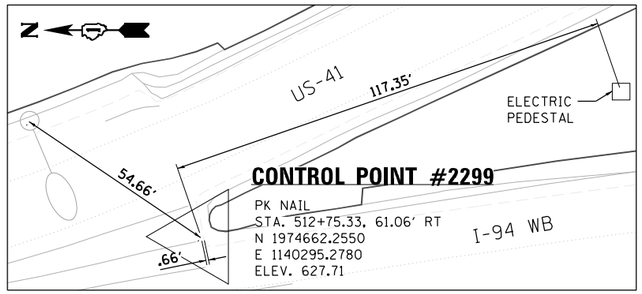
CONTROL POINT	NORTHING	EASTING	ELEVATION	MARKER	STATION	OFFSET
2242	1996636.70	1130124.04	636.94	CPS	756+21.15	55.73 LT
2243	1995940.21	1130466.59	635.40	CPS	748+45.50	54.67 LT
2244	1992484.28	1132470.27	629.99	TPR	708+43.88	62.92 LT
2245	1991972.80	1132661.24	629.18	CPS	702+90.83	55.73 LT
2246	1987493.67	1133990.19	628.16	TPR	655+75.00	59.14 LT
2247	1987003.20	1134221.53	629.36	TPR	650+32.71	58.93 LT
2248	1982935.05	1136143.47	627.48	TPR	605+35.46	59.14 LT
2249	1982362.29	1136471.94	629.36	TPR	598+80.16	58.59 LT
2250	1976502.29	1139437.70	624.59	TPR	533+02.64	58.46 LT
2251	1975839.19	1139764.94	629.05	CPS	525+63.19	56.19 LT
2252	1970289.77	1140202.08	626.04	CPS	469+09.73	56.78 LT
2253	1969656.47	1140242.69	624.96	CPS	462+83.20	56.66 LT
2254	1966888.31	1141245.34	620.31	TPR	433+23.88	65.61 LT

MARKER LEGEND:
TPR- SET IRON ROD WITH CAP
CPS- COTTON PICKER SPINDLE
IRC- FOUND IRON ROD WITH CAP
TPK- TRAVERSE POINT PK NAIL
TPX- CUT CROSS









CTP–01

Jacobs	USER NAME = OGORMAN	DESIGNED - GL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONTROL POINTS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - GL	REVISED -			I-94	2016-071L	COOK	84	17
	PLOT SCALE =	CHECKED - MMK	REVISED -					CONTRACT NO. 62D82		
	PLOT DATE = 6/23/2023	DATE - 01/31/2023	REVISED -		SCALE: 1"=20' SHEET 1 OF 3 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			

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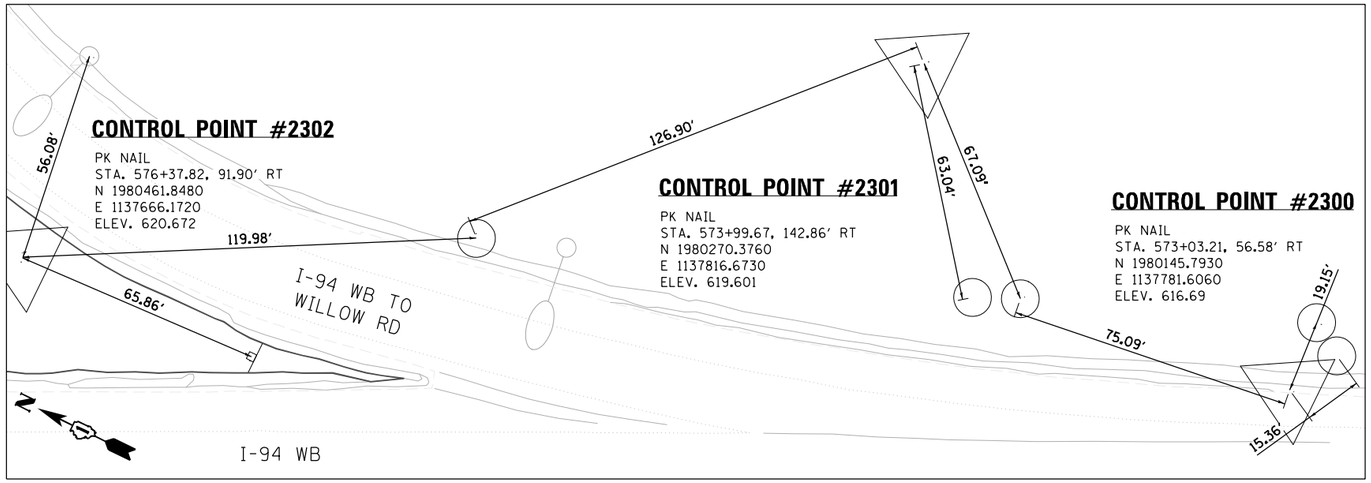

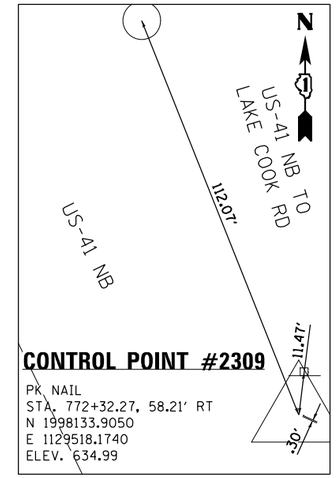

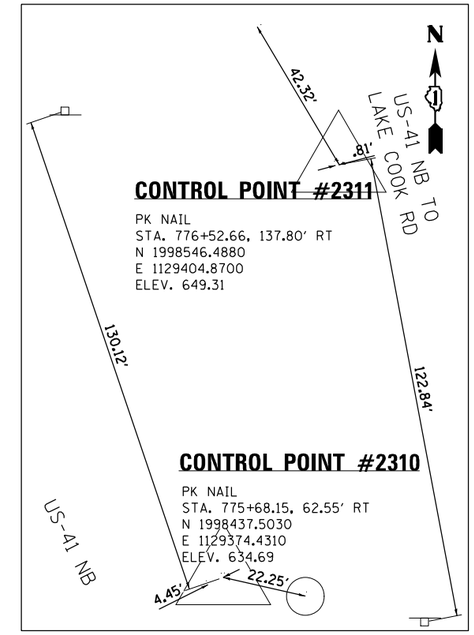

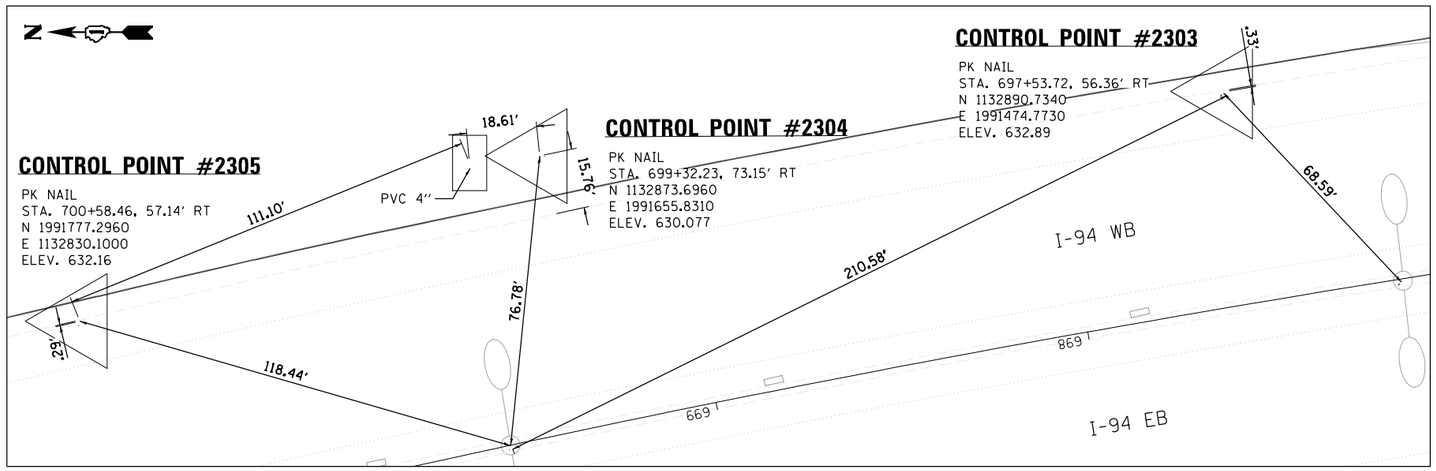

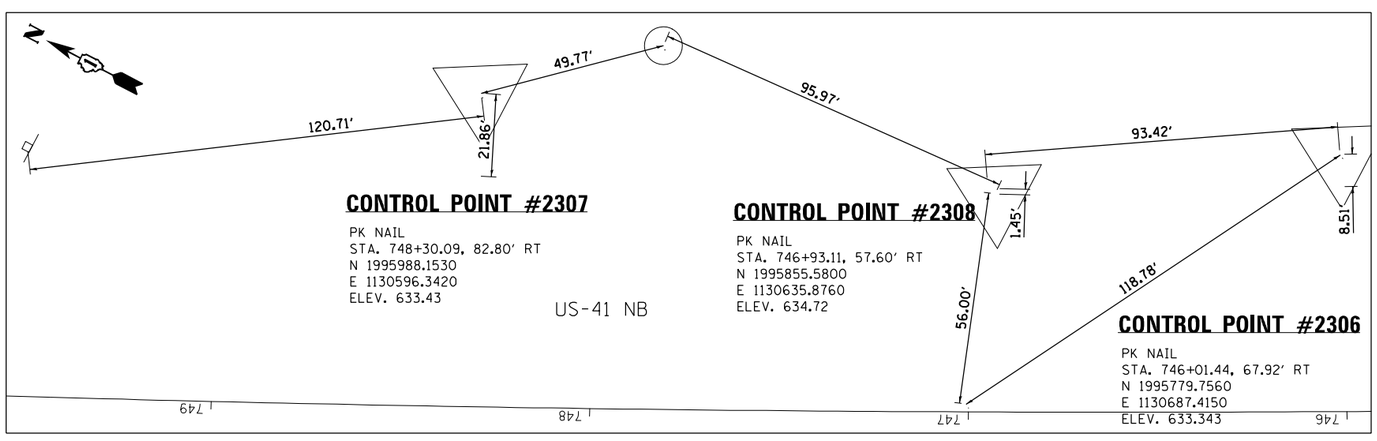

CTP–02

Jacobs	USER NAME = OGORMAN	DESIGNED - GL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONTROL POINTS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - GL	REVISED -			I-94	2016-071L	COOK	84 / 18
	PLOT SCALE =	CHECKED - MMK	REVISED -					CONTRACT NO. 62D82	
	PLOT DATE = 6/23/2023	DATE - 01/31/2023	REVISED -		SCALE: 1"=20' SHEET 2 OF 3 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT		

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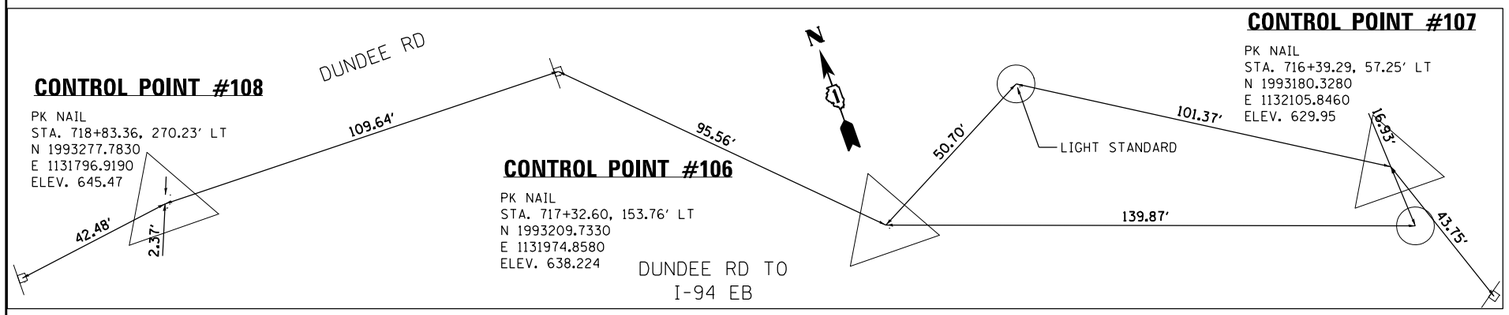

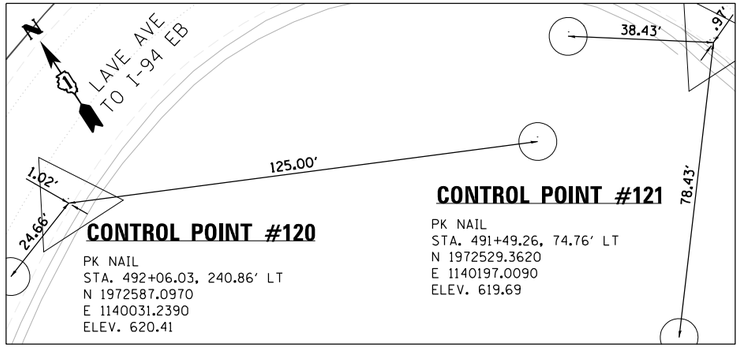

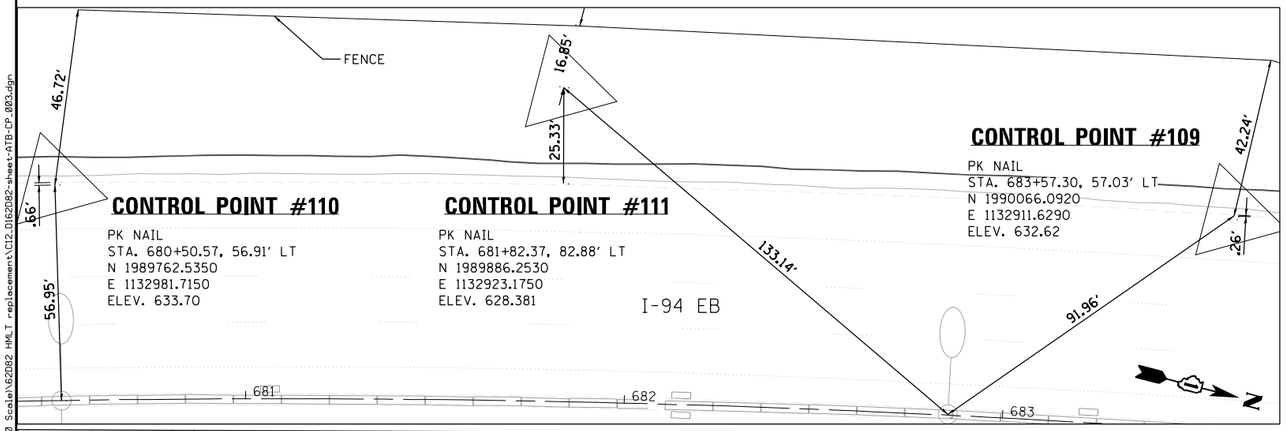

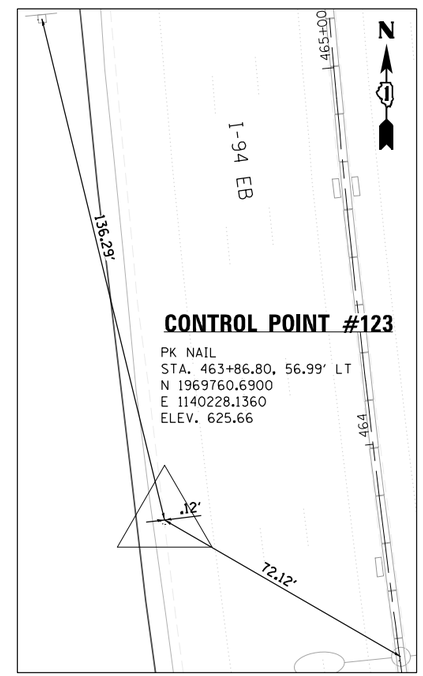

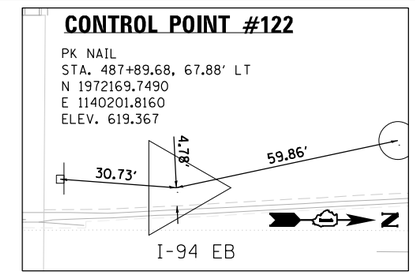

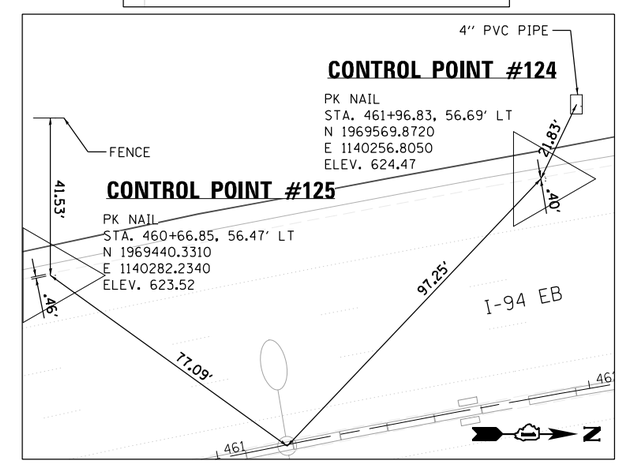

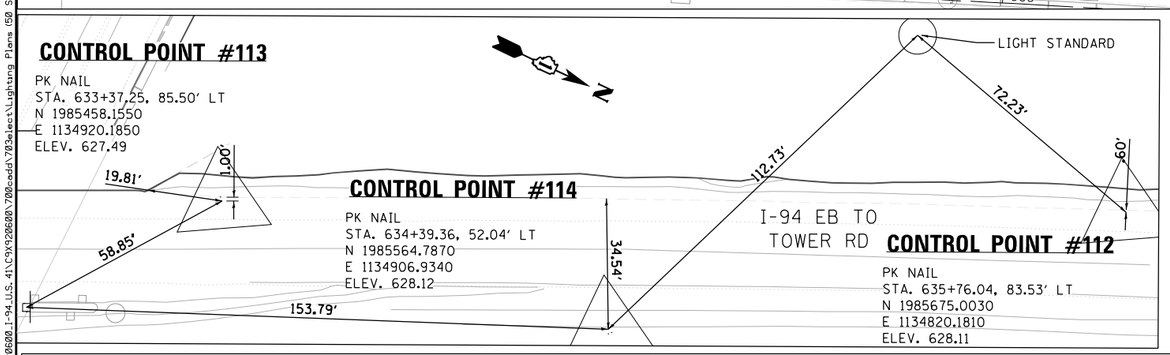

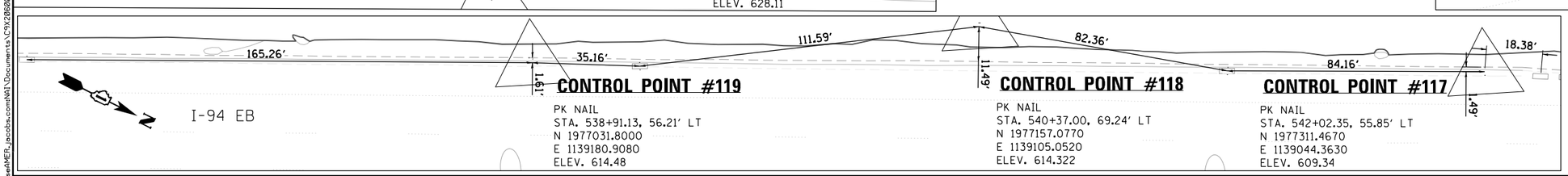

CTP-03

Jacobs	USER NAME = OGORMAN	DESIGNED - GL	REVISED -
		DRAWN - GL	REVISED -
	PLOT SCALE =	CHECKED - MMK	REVISED -
	PLOT DATE = 6/23/2023	DATE - 01/31/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONTROL POINTS

SCALE: 1"=20' SHEET 3 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-94	2016-071L	COOK	84	19

CONTRACT NO. 62D82

ILLINOIS FED. AID PROJECT

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MAINTENANCE OF TRAFFIC GENERAL NOTES

1. THE CONTRACTOR'S VEHICLES SHALL ALWAYS MOVE WITH AND NOT AGAINST OR ACROSS THE FLOW OF TRAFFIC, AND THEY SHALL ENTER OR LEAVE WORK AREAS IN A MANNER WHICH IS NOT HAZARDOUS TO TRAFFIC AND WILL NOT INTERFERE WITH NORMAL TRAFFIC. THE CONTRACTOR'S VEHICLES SHALL NOT PARK OR STOP EXCEPT WITHIN DESIGNATED WORK AREAS. PERSONAL VEHICLES ARE NOT PERMITTED TO PARK WITHIN THE RIGHT-OF-WAY EXCEPT IN AREAS DESIGNATED BY THE ENGINEER.

2. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL BE FIELD FIT TO CONDITIONS AS DIRECTED BY THE ENGINEER.

3. EXISTING TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE REMOVED OR RELOCATED BY THE CONTRACTOR AFTER THE TRAFFIC CONTROL REQUIREMENTS ARE MET OR AS AUTHORIZED BY THE ENGINEER; ANY SIGNS OR DEVICES LEFT IN PLACE ARE TO BE PROTECTED FROM DAMAGE AND MAINTAINED.

4. BORING PITS ARE TO BE PLACED AT LEAST 15' FROM THE TRAVELED WAY ON THE MAINLINE TO ELIMINATE THE NEED FOR TRAFFIC CONTROL AND PROTECTION PER IDOT HIGHWAY STANDARD 701106-02.

5. USE IDOT DISTRICT 1 STANDARD TC-17 FOR PARTIAL RAMP CLOSURES AND SHOULDER CLOSURES ON I-94.

6. IF BORING PIT IS LOCATED WITHIN THE CLEAR ZONE BUT OUTSIDE OF CONSTRUCTION CLEAR ZONE, TRAFFIC CONTROL AND PROTECTION MUST REMAIN IN PLACE ADJACENT TO BORING PIT UNTIL EXCAVATED AREA IS FILLED.

7. TOWER REMOVAL LAYDOWN AREAS MUST BE APPROVED BY THE ENGINEER PRIOR TO USE. ADDITIONAL TRAFFIC CONTROL WILL NOT BE PROVIDED SOLELY FOR TOWER LAYDOWN AREAS.

8. TRAFFIC CONDITIONS, CRASHES, AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY, OR REMOVE LANE CLOSURES OR CHANNELIZATIONS SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS AS DIRECTED BY THE ENGINEER WITHOUT DELAY. COMPLIANCE WITH THIS REQUIREMENT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE OF "TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)" (X7011015). NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

9. THE MAINTENANCE OF TRAFFIC PLANS SHALL SERVE AS A GUIDE FOR THE SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THE CONTRACT, THE CONTRACTOR MAY MODIFY THE MAINTENANCE OF TRAFFIC PLANS TO MEET CONSTRUCTION NEEDS, BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE TRAFFIC CONTROL SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.

10. THE CONTRACTOR SHALL REMOVE OR COVER ALL EXISTING SIGNS THAT CONFLICT WITH OR DO NOT APPLY TO THE REVISED TRAFFIC PATTERNS AND SHALL RESTORE THE SIGNS AT THE END OF CONSTRUCTION AS DIRECTED BY THE ENGINEER.

11. THE CONTRACTOR SHALL REQUEST AND GAIN APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT WWW.IDOTLCS.COM TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL DAILY LANE, RAMP AND SHOULDER CLOSURES AND 7 DAYS IN ADVANCE OF ALL PERMANENT AND WEEKEND CLOSURES ON ALL FREEWAYS AND/OR EXPRESSWAYS IN DISTRICT ONE.

CONSTRUCTION STAGING NOTES

STAGE 1

CONSTRUCTION:

1. INSTALL AND ENERGIZE PROPOSED LIGHTING ALONG THE OUSIDE SHOULDER.

TRAFFIC CONTROL:

1. DAILY SHOULDER CLOSURE, PER STANDARD TC-17 [TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES].

STAGE 2

CONSTRUCTION:

1. INSTALL AND ENERGIZE PROPOSED LIGHING ALONG MEDIAN.

2. REMOVE MEDIAN LIGHTING PER PLAN.

TRAFFIC CONTROL:

1. NIGHTLY LANE CLOSURE, IN ACCORDANCE WITH KEOTT SPECIAL PROVISION, PER STANDARD 701406 AND 701400 FOR LANE CLOSURE, FREEWAY/EXPRESSWAY, AND APPROACH TO LANE CLOSURE, FREEWAY/ EXPRESSWAY.

STAGE 3

CONSTRUCTION:

1. REMOVE LIGHTING ALONG THE OUTSIDE SHOULDER PER PLAN AND RESTORE.

TRAFFIC CONTROL:

1. DAILY SHOULDER CLOSURE, PER STANDARD TC-17 [TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES].

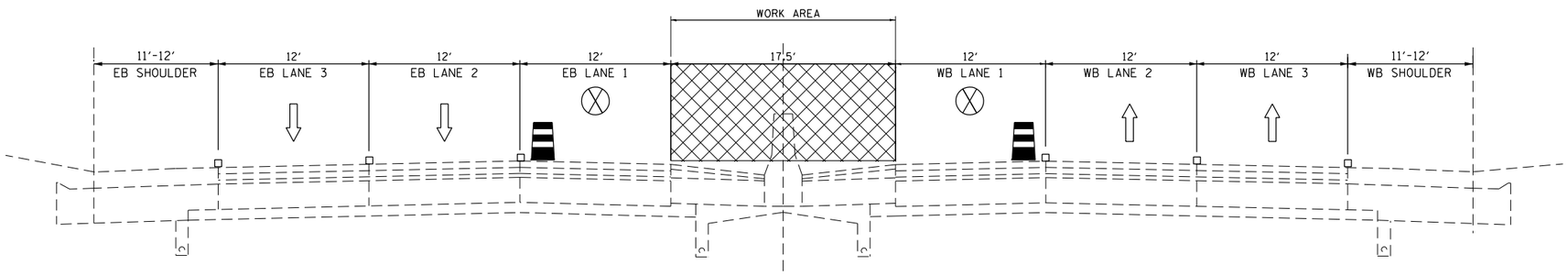
MOT-01

MOT LEGEND

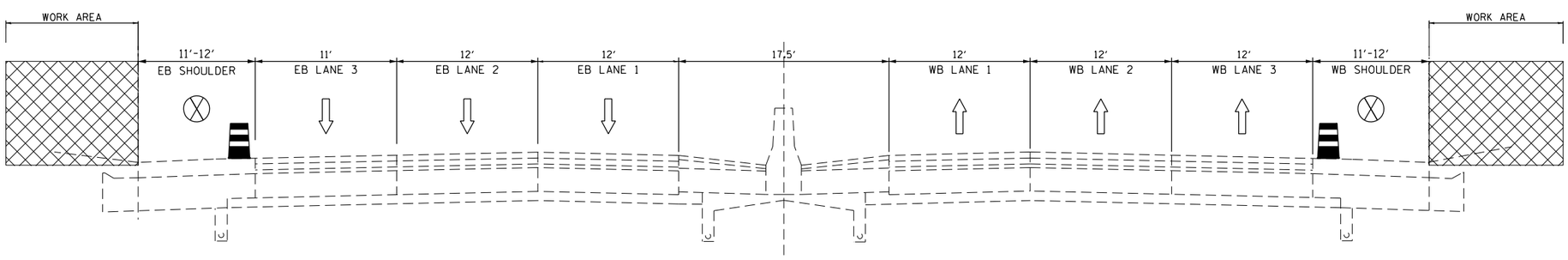
WORK ZONE

DIRECTION OF TRAFFIC

TYPE II BARRICADES OR DRUMS



STAGE 2 - MOT TYPICAL (LANE 1 DAILY CLOSURE)



STAGE 1 AND 3 - MOT TYPICAL (SHOULDER DAILY CLOSURE)

MOT–02

ABNA

USER NAME = korabmp	DESIGNED - JPZ	REVISED -	
	DRAWN - JPZ	REVISED -	
PLOT SCALE =	CHECKED - TPP	REVISED -	
PLOT DATE = 8/10/2023	DATE - 08/11/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-94	2016-071L	COOK	84	21

CONTRACT NO. 62D82

ILLINOIS FED. AID PROJECT

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CIVIL RESTORATION GENERAL NOTES

1. ADDITIONAL PAYMENT WILL NOT BE PROVIDED FOR ANY DISTURBANCE AND RELATED RESTORATION OUTSIDE OF RESTORATION AREAS AS SHOWN IN THE PLANS INCLUDING BORING PIT RESTORATION.
2. CLEAR ZONE DISTANCES PROVIDED ARE BASED ON 4:1 FRONT SLOPE.
3. RESTORATION AREA INCLUDES SEEDING, TOPSOIL, NUTRIENTS AND EROSION CONTROL BARRIER AS REQUIRED.
4. WHEN CONNECTING PROPSED UNIT DUCT TO EXISTING LIGHTING UNIT. WILL NEED TO EXCAVATE NEAR THE EXISTING FOUNDATION TO TAP INTO THE EXISTING CONDUIT IN EXISTING FOUNDATION.

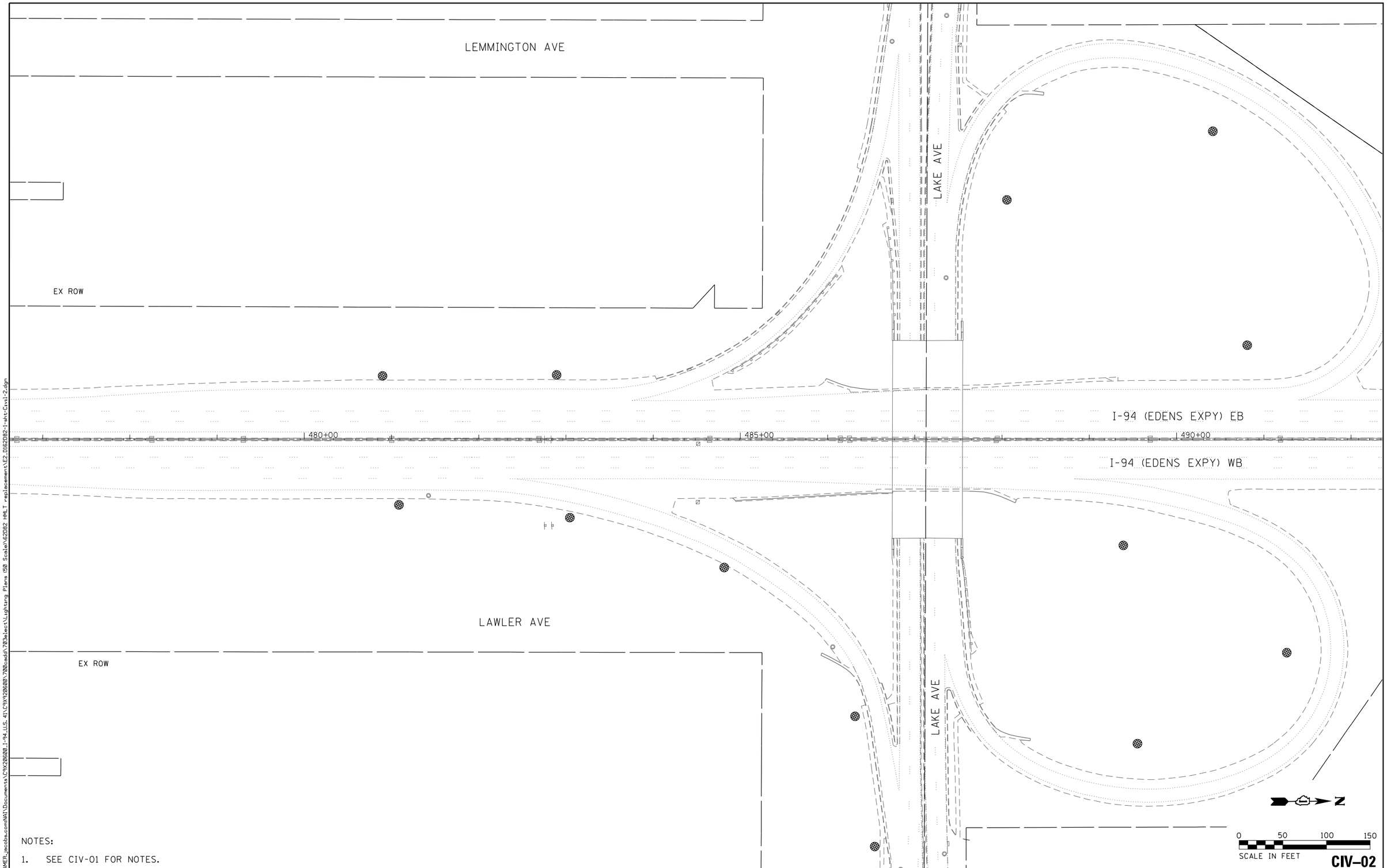
LEGEND

EXISTING LIGHT POLE AND TOWER RESTORATION AREA
FOUNDATION TO BE REMOVED 24" BELOW GRADE
RESTORE WITH:
TOPSOIL FURNISH AND PLACE, 24"
NITROGEN FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT
MULCH, METHOD 2

LIGHT POLE RESTORATION SCHEDULE OF QUANTITIES

		20101400	20101600	21101685	25000210	25100630
		NITROGEN FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	TOPSOIL FURNISH AND PLACE, 24"	SEEDING, CLASS 2A	EROSION CONTROL BLANKET
		POUND	POUND	SQ YD	ACRE	SQ YD
CIV-02	13	2.1	2.1	113	.02	113
CIV-03	2	.03	.03	17	.01	17
CIV-04	6	1.0	1.0	52	.01	52
CIV-05	9	1.5	1.5	79	.02	79
TOTALS		5	5	262	0.25	262

CIV-01



NOTES:

1. SEE CIV-01 FOR NOTES.

CIV–02

Jacobs	USER NAME = OGORMAN	DESIGNED - MMO	REVISED -
		DRAWN - MMO	REVISED -
	PLOT SCALE =	CHECKED - MMK	REVISED -
	PLOT DATE = 6/23/2023	DATE - 01/31/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–94 /US 41 SMART HIGHWAY
I–94 CIVIL RESTORATION PLANS

SCALE: 1"=50' SHEET 2 OF 5 SHEETS STA. 480+00 TO STA. 495+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-94	2016-071L	COOK	84	23

CONTRACT NO. 62D82

ILLINOIS FED. AID PROJECT

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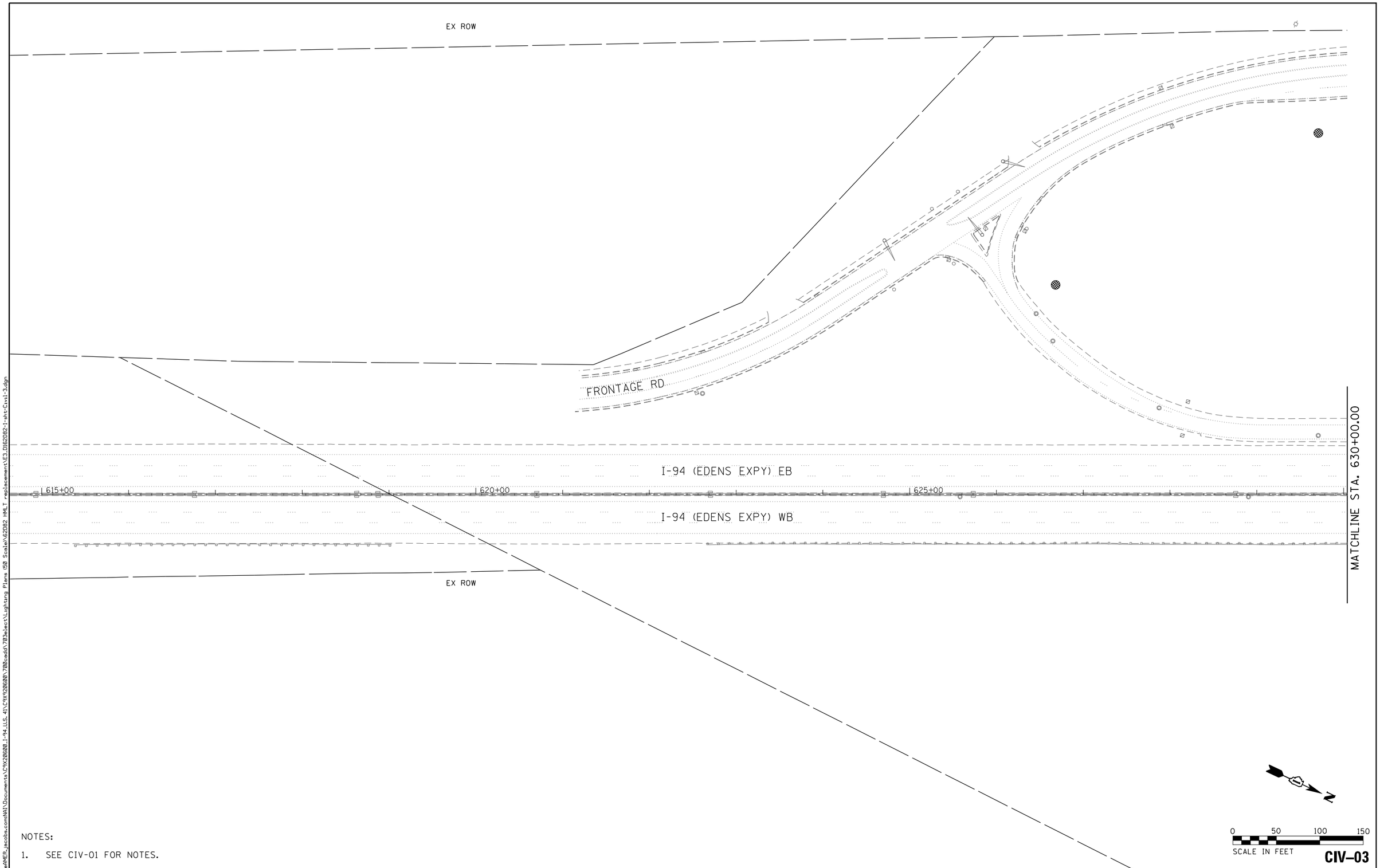

NOTES:

1. SEE CIV-01 FOR NOTES.

CIV–03

Jacobs	USER NAME = OGORMAN	DESIGNED - MMO	REVISED -
		DRAWN - MMO	REVISED -
	PLOT SCALE =	CHECKED - MMK	REVISED -
	PLOT DATE = 6/23/2023	DATE - 01/31/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–94 /US 41 SMART HIGHWAY
I–94 CIVIL RESTORATION PLANS

SCALE: 1"=50' SHEET 3 OF 5 SHEETS STA. 615+00 TO STA. 630+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-94	2016-071L	COOK	84	24
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

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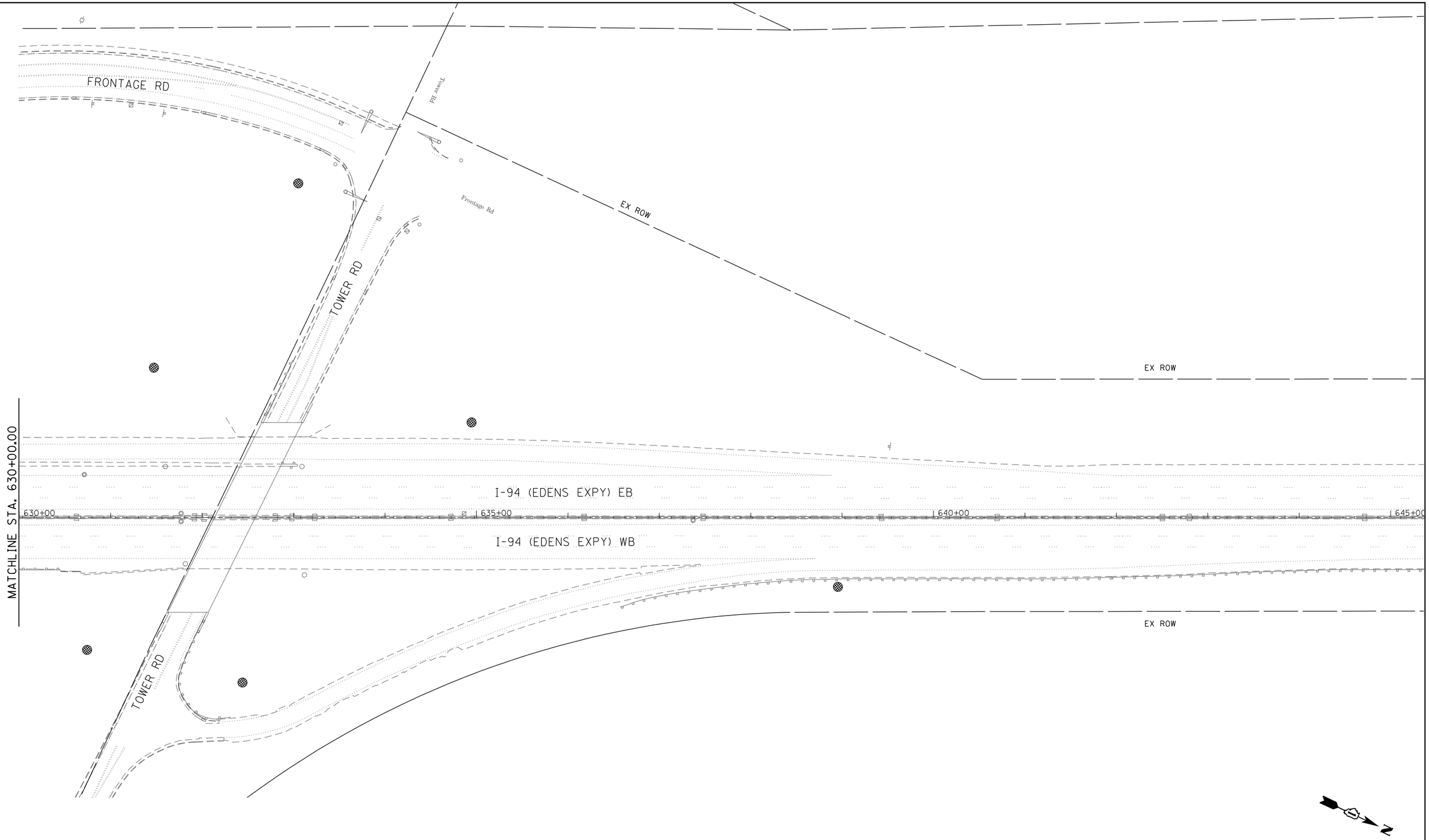

NOTES:

1. SEE CIV-01 FOR NOTES.

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SCALE IN FEET

CIV–04

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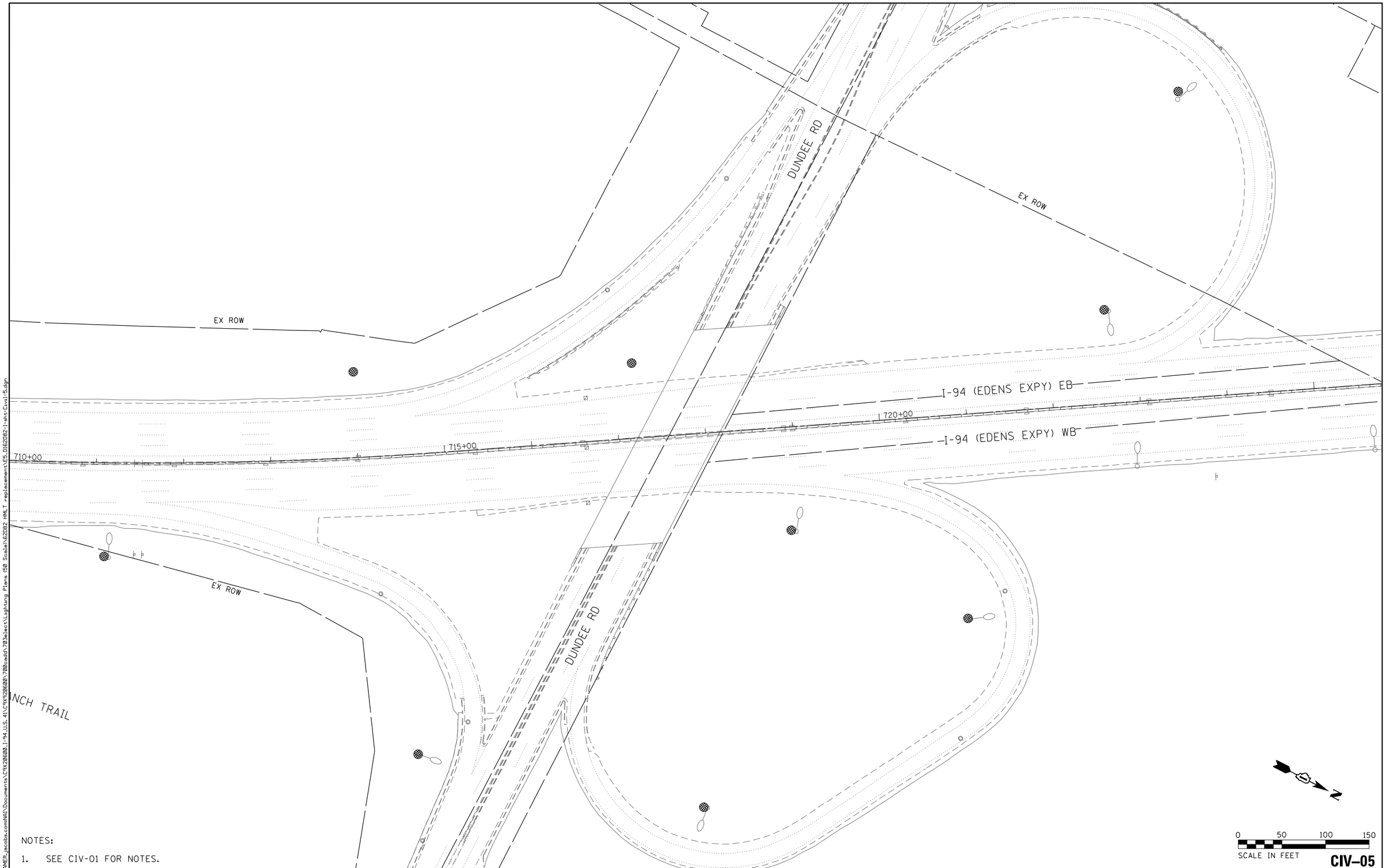
Jacobs	USER NAME = OGORMAN	DESIGNED - MMO	REVISED -
		DRAWN - MMO	REVISED -
	PLOT SCALE =	CHECKED - MMK	REVISED -
	PLOT DATE = 6/23/2023	DATE - 01/31/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–94 /US 41 SMART HIGHWAY
I–94 CIVIL RESTORATION PLANS

SCALE: 1"=50' SHEET 4 OF 5 SHEETS STA. 630+00 TO STA. 645+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-94	2016-071L	COOK	84	25
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		



NOTES:

1. SEE CIV-01 FOR NOTES.

CIV–05

Jacobs	USER NAME = OGORMAN	DESIGNED - MMO	REVISED -
		DRAWN - MMO	REVISED -
	PLOT SCALE =	CHECKED - MMK	REVISED -
	PLOT DATE = 6/23/2023	DATE - 01/31/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–94 /US 41 SMART HIGHWAY
I–94 CIVIL RESTORATION PLANS

SCALE: 1"=50' SHEET 5 OF 5 SHEETS STA. 705+00 TO STA. 720+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-94	2016-071L	COOK	84	26

CONTRACT NO. 62D82

ILLINOIS FED. AID PROJECT

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SIGN SCHEDULE

ALIGNMENT	STATION	EXISTING POLE NO.	DESCRIPTION	MUTCD	DIMENSIONS	PROPOSED POLE NO.	RELOCATE SIGN PANEL TYPE 1	RELOCATE SIGN PANEL TYPE 2
							72400710	72400720
							(SQ FT)	(SQ FT)
I-94	476+93.75	LJ10	EAST	M3-2	36X18	LB2	4.5	
I-94	476+93.75	LJ10	INTERSTATE 94	M1-1	36X36	LB2	9	
I-94	478+88.70	LI9	SPEED LIMIT 55	R2-1	36X48	LA2		12
LAKE AVE	4201+03.50	LJ7	USE PROHIBITED	R5-I100	48x60	LB7		20
LAKE AVE	4202+97.70	LJ6	EAST	M3-2	36X18	LB6	4.5	
LAKE AVE	4202+97.70	LJ6	INTERSTATE 94	M1-1	36X36	LB6	9	
LAKE AVE	4202+97.70	LJ6	ARROW	M6-2	30X21	LB6	4.4	
LAKE AVE	4504+85.35	LI3	RAMP 35 MPH	W13-3	36X48	LD3		12
LAKE AVE	4506+80.00	LJ3	YIELD AHEAD	W3-2	48X48	LC3		16
LAKE AVE	4506+80.00	LJ3	WRONG WAY	R5-1A	36X24	LC3	6	
LAKE AVE	4508+95.70	LJ1	PEDESTRIAN	W11-2	36X36	LC2	9	
LAKE AVE	4508+95.70	LJ1	ARROW	W16-7P	24X12	LC2	2	
LAKE AVE	4508+95.70	LJ1	DO NOT ENTER	R5-1	36X36	LC2	9	
LAKE AVE	4509+24.55	LI2	DO NOT ENTER	R5-1	36X36	LD1	9	
US 41	4620+70.55	LC10	WRONG WAY	R5-1A	36X24	LE9	6	

EXISTING SIGNING

RELOCATE EXISTING SIGN PANELS THAT ARE ATTACHED TO EXISTING LIGHTING UNITS BEING REMOVED.

SIGN PANELS SHALL BE RELOCATED TO THE PROPOSED LIGHT POLE IN CLOSEST PROXIMITY TO ITS EXISTING LOCATION. SIGN TO BE RELOCATED THE SAME DAY THAT THE SIGN WAS REMOVED.

THIS WORK WILL BE PAID FOR PER SQ FT OF RELOCATE SIGN PANEL, OF THE TYPE SPECIFIED.

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LIGHTING AND ELECTRICAL LEGEND

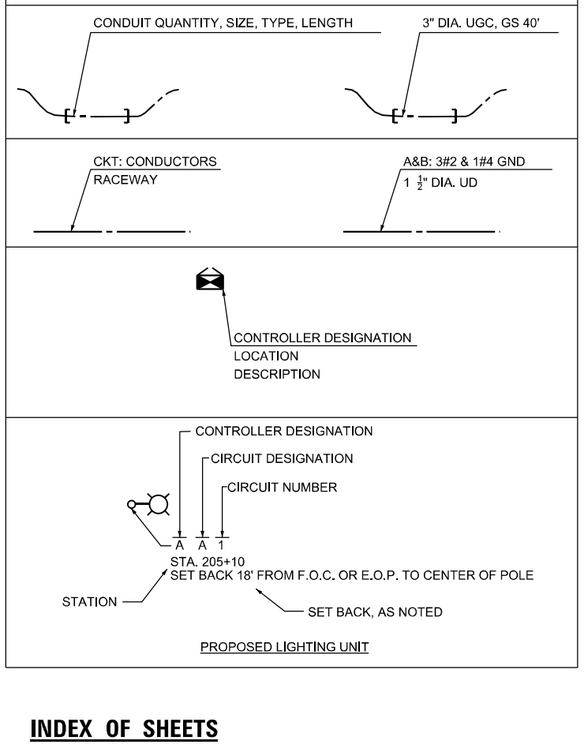
SYMBOL	DESCRIPTION
R	EXISTING HIGH MAST LIGHTING FOUNDATION AND TOWER TO BE REMOVED, NO SALVAGE. LUMINAIRES TO BE SALVAGED
R	EXISTING LIGHTING FOUNDATION (GROUND MOUNTED ONLY), POLE, MAST ARM REMOVED, NO SALVAGE. LUMINAIRES AND TRANSFORMER BASES REMOVED SHALL BE SALVAGED
R	EXISTING LIGHTING FOUNDATION (PARAPET MOUNTED ONLY), POLE, MAST ARM REMOVED, NO SALVAGE. LUMINAIRES REMOVED SHALL BE SALVAGED
MR MR	EXISTING LIGHTING FOUNDATION (MEDIAN MOUNTED) TO REMAIN, POLE TO BE REMOVED (NO SALVAGE), MAST ARMS TO BE REMOVED (NO SALVAGE), LUMINAIRES TO BE REMOVED (SALVAGE), MEDIAN BARRIER TO BE RESTORED
R R	EXISTING LIGHTING FOUNDATION (MEDIAN MOUNTED) TO REMAIN, POLE TO REMAIN, MAST ARM TO BE REMOVED (NO SALVAGE), LUMINAIRES TO BE REMOVED (SALVAGE)
	PROPOSED IDOT LIGHTING UNIT MOUNTED ON BREAKAWAY DEVICE METAL FOUNDATION, 47.5 FT M.H. U.N.O., 15 FT MAST ARM, LUMINAIRE TO BE LED, HORIZONTAL MOUNT, OUTPUT DESIGNATION H (240 VAC) U.N.O.
	EXISTING IDOT LIGHTING UNIT MOUNTED ON EXISTING PARAPET OR BARRIER FOUNDATION, 47.5' M.H., EXISTING MAST ARM, PROPOSED LED LUMINAIRE, HORIZONTAL MOUNT, OUTPUT DESIGNATION H (240V) U.N.O.
	EXISTING IDOT LIGHTING UNIT MOUNTED ON EXISTING MEDIAN FOUNDATION, PROPOSED 6-FT TWIN ARM, PROPOSED LED LUMINAIRE, HORIZONTAL MOUNT, OUTPUT DESIGNATION H (240V) U.N.O.
	EXISTING TOLLWAY LIGHTING UNIT TO REMAIN
T	EXISTING LIGHTING UNIT TO REMAIN
	EXISTING SIGN LIGHTING TO REMAIN
E	EXISTING UNDERPASS LUMINAIRE TO REMAIN
E R	EXISTING UNDERPASS LUMINAIRE TO BE REMOVED, NO SALVAGE
	PROPOSED UNDERPASS LED LUMINAIRE, SUSPENDED MOUNT
J E	EXISTING JUNCTION BOX TO REMAIN
J R	EXISTING JUNCTION BOX TO BE REMOVED
J	PROPOSED JUNCTION BOX, SIZE AND TYPE AS NOTED
R	EXISTING IDOT LIGHTING CONTROLLER TO BE REMOVED, SALVAGE
	PROPOSED IDOT LIGHTING CONTROLLER
R	EXISTING ELECTRIC UTILITY SERVICE TO BE REMOVED
	PROPOSED ELECTRIC UTILITY SERVICE
⊗	TEMPORARY WOOD POLE TO REMAIN
	PROPOSED CABLE IN CONDUIT, SIZE AND TYPE AS NOTED
— — R — —	EXISTING UNDERGROUND CABLE AND UNIT DUCT TO BE ABANDONED
— E —	EXISTING CIRCUIT TO REMAIN
	EXISTING UNIT DUCT IN EXISTING UNDERGROUND CONDUIT.
	PROPOSED UNIT DUCT, SIZE AND TYPE AS NOTED
	PROPOSED UNIT DUCT IN UNDERGROUND CONDUIT, SIZE AND TYPE AS NOTED

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AC	ALTERNATING CURRENT
A/C	AERIAL CABLE
ATS	ATTACHED TO STRUCTURE
B.O.C.	BACK OF CURB
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CM	CENTIMETER
COMED	COMMONWEALTH EDISON COMPANY
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
DA	DAVIT ARM
DC	DIRECT CURRENT
DIA	DIAMETER
DP	DISTRIBUTION PANEL
E	EXISTING UNIT TO REMAIN
EX.	EXISTING
ECA	ELECTRIC CABLE ASSEMBLY
EIS	EMBEDDED IN STRUCTURE
E.O.P.	EDGE OF PAVEMENT
F.O.C.	FACE OF CURB
FT	FEET OR FOOT
FU	FUSE
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
HMLT	HIGH MAST LIGHTING UNIT
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
LED	LIGHT EMITTING DIODE
LP	LIGHT POLE
M	METER
MA	MAST ARM
MC	MULTI-CONDUCTOR
MM	MILLIMETER
M.H.	MOUNTING HEIGHT
MW	MESSENGER WIRE
NESC	NATIONAL ELECTRIC SAFETY CODE
NO. #	NUMBER
N.T.S.	NOT TO SCALE
P	PROPOSED
PB	PUSH BUTTON
PNL	PANEL
PVC	POLYVINYL CHLORIDE
PVCC RGC	PVC COATED RIGID GALVANIZED CONDUIT
PT	POTENTIAL TRANSFORMER
R	EXISTING UNIT TO BE REMOVED (OWNER SALVAGED U.N.O.)
RR	EXISTING UNIT TO BE REMOVED AND REINSTALLED
RECP	RECEPTACLE
RGC	RIGID GALVANIZED CONDUIT
SEL SW	SELECTOR SWITCH
SPARE	SPARE
SPACE	SPACE
SS	STAINLESS STEEL
STA	STATION
T/F	TOP OF FOUNDATION
UD	UNIT DUCT
U.N.O.	UNLESS NOTED OTHERWISE
UGC, GS	UNDERGROUND CONDUCT, GALVANIZED STEEL
VAC	VOLTS, ALTERNATING CURRENT
W	WATTS
WP	WOOD POLE
XFMR	TRANSFORMER
HPS	HIGH PRESSURE SODIUM
LPS	LOW PRESSURE SODIUM
LTFM	LIQUID TIGHT FLEXIBLE METALLIC

CALL–OUT SAMPLE

DEFINITION AND EXAMPLE



INDEX OF SHEETS

DRAWING NUMBER	DESCRIPTION
LT-01	LIGHTING LEGEND AND GENERAL NOTES
LT-02	SCHEDULE OF QUANTITIES
LT-03 TO LT-13	I-94/US-41 SMART HIGHWAY LIGHTING REMOVAL PLANS
LT-14 TO LT-24	I-94/US-41 SMART HIGHWAY PROPOSED LIGHTING PLANS
LT-25	UNDERPASS LIGHTING REMOVAL PLAN I-94 AT LAKE AVENUE
LT-26	PROPOSED UNDERPASS LIGHTING INSTALLATION PLAN I-94 AT LAKE AVENUE
LT-27	PROPOSED UNDERPASS LIGHTING INSTALLATION PLAN I-94 AT TOWER ROAD
LT-28	UNDERPASS LIGHTING AS-BUILT INFORMATION
LT-29	I-94/US-41 SMART HIGHWAY PROPOSED LIGHTING SCHEMATIC - CONTROLLER L
LT-30	I-94/US-41 SMART HIGHWAY PROPOSED LIGHTING SCHEMATIC - CONTROLLER O
LT-31	I-94/US-41 SMART HIGHWAY PROPOSED LIGHTING SCHEMATIC - CONTROLLER R
LT-32 TO LT-35	CONTROLLER L AS-BUILT INFORMATION
LT-36 TO LT-37	CONTROLLER O AS-BUILT INFORMATION
LT-38 TO LT-40	CONTROLLER R AS-BUILT INFORMATION
LT-41 TO LT-50	IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS

GENERAL NOTES

1. THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CODES, STANDARDS AND THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2022, AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.
2. THE CONTRACTOR SHALL CONTACT MEADE ELECTRIC CO. DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR TO LOCATE IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES 773-287-7672.
3. COMED ENERGY CONTACT PERSON:
   CONTROLLER L & O:
   NORA CABRALES
   TELEPHONE NUMBER: (847) 929-2357
   EMAIL: NORA.COBRALES@COMED.COM

   CONTROLLER R:
   ALLYSEN BEARD
   TELEPHONE NUMBER: (847) 816-5215
   EMAIL: ALLYSEN.BEARD@COMED.COM

IDOT–D1 STANDARDS:

STANDARD NO.	TITLE
BE-206	LIGHTING CONTROLLER, BASE MOUNTED. 480VOLT, 200AMP (DUAL) RADIO SCADA - FIBER OPTIC PROVISION
BE-220	ELECTRIC SERVICE INSTALLATION SERVICE AERIAL, REMOTE DISCONNECT
BE-305	LIGHT POLE FOUNDATION, METAL
BE-400	ALUMINUM LIGHT POLE 47' -6" MOUNTING HEIGHT
BE-701	LUMINAIRE SAFETY CABLE ASSEMBLY
BE-702	MISC. ELECTRICAL DETAILS SHEET A
BE-901	SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS

LT–01

ITEM	UNIT	QUANTITY
ELECTRIC SERVICE INSTALLATION	EACH	3
ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	2373
CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	1243
CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	106
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	13
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	11
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	4
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	41447
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	5272
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BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	182
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REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	66
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REMOVAL OF LIGHTING CONTROLLER	EACH	3
REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	3
REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	3
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REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE	EACH	91
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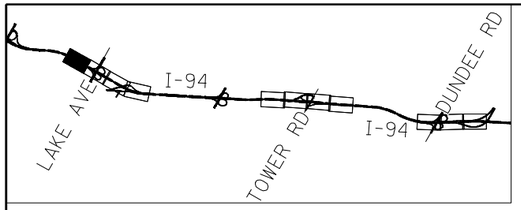
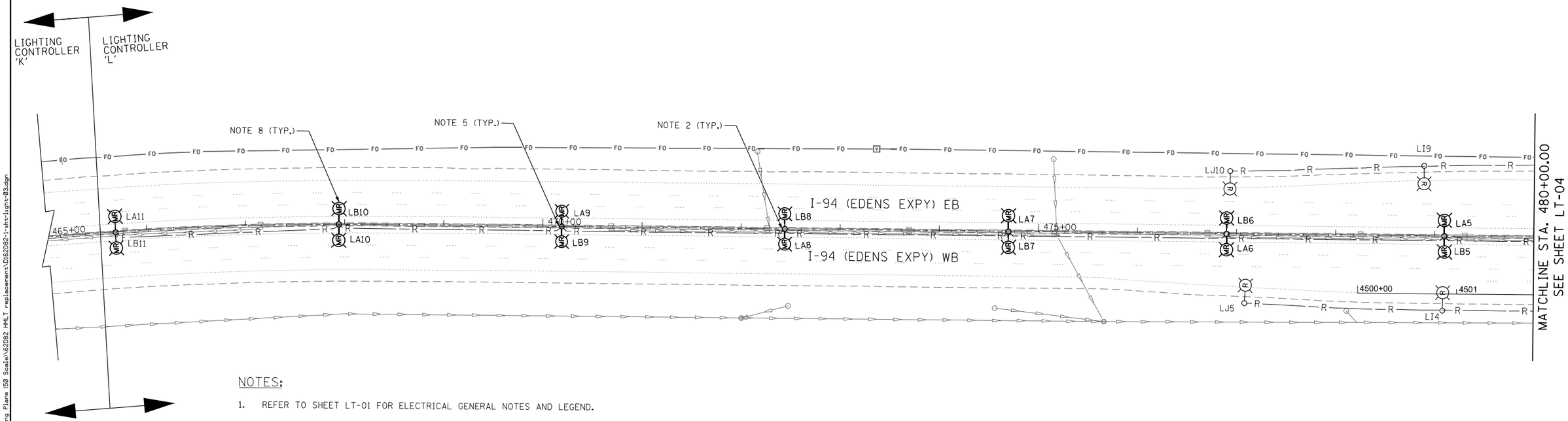
REMOVAL OF TOWER FOUNDATION	EACH	23
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	198
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	15

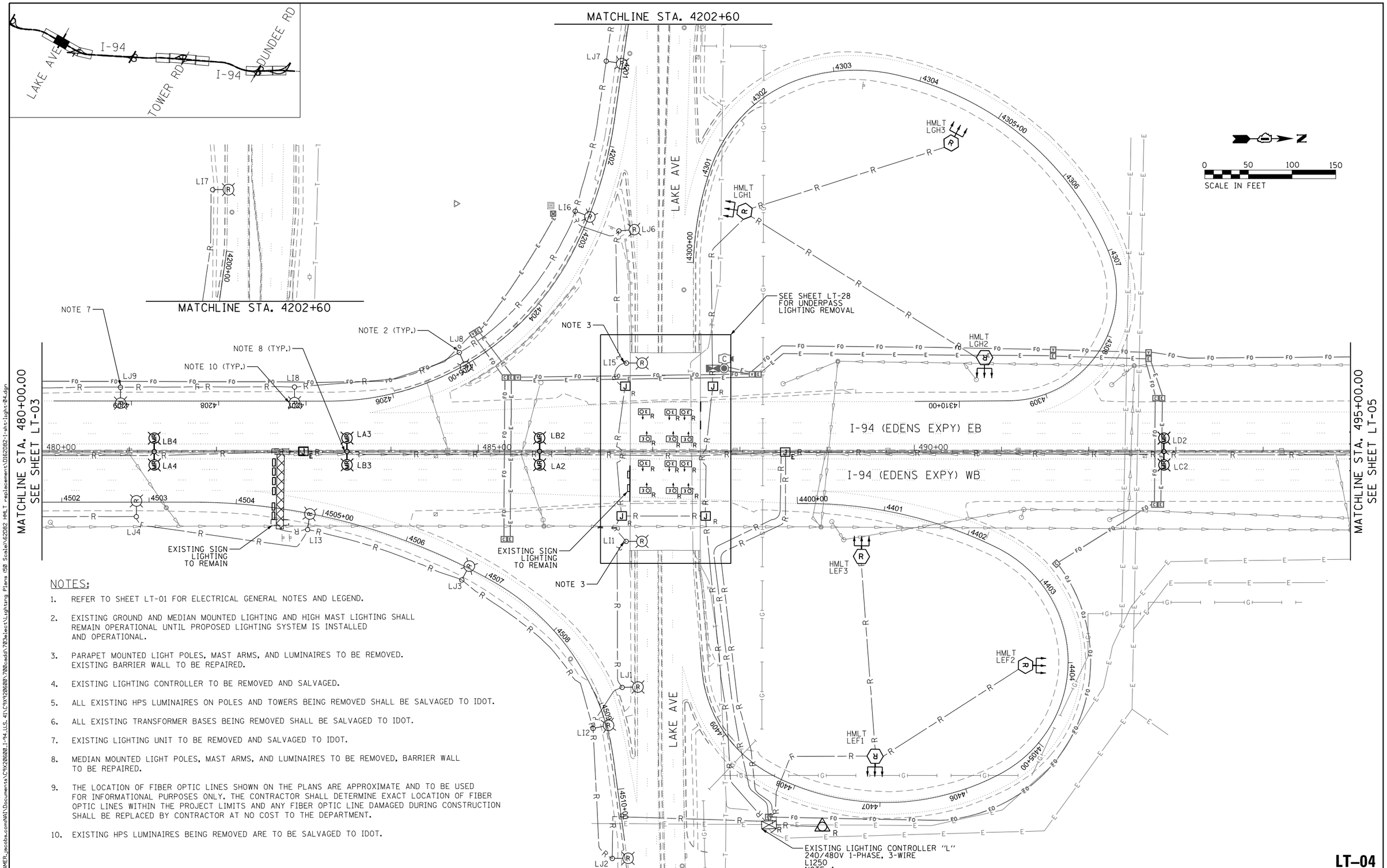




NOTES:

1. REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
2. EXISTING HPS LUMINAIRES BEING REMOVED ARE TO BE SALVAGED TO IDOT.
3. EXISTING GROUND AND MEDIAN MOUNTED LIGHTING AND HIGH MAST LIGHTING SHALL REMAIN OPERATIONAL UNTIL PROPOSED LIGHTING SYSTEM IS INSTALLED AND OPERATIONAL.
4. ALL EXISTING HPS LUMINAIRES ON POLES AND TOWERS BEING REMOVED SHALL BE SALVAGED TO IDOT.
5. ALL EXISTING TRANSFORMER BASES BEING REMOVED SHALL BE SALVAGED TO IDOT.
6. MEDIAN MOUNTED LIGHT POLES, MAST ARMS, AND LUMINAIRES TO BE REMOVED, BARRIER WALL TO BE REPAIRED.
7. THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST TO THE DEPARTMENT.
8. EXISTING HPS LUMINAIRES BEING REMOVED ARE TO BE SALVAGED TO IDOT.

LT–03



NOTES:

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3. PARAPET MOUNTED LIGHT POLES, MAST ARMS, AND LUMINAIRES TO BE REMOVED. EXISTING BARRIER WALL TO BE REPAIRED.
4. EXISTING LIGHTING CONTROLLER TO BE REMOVED AND SALVAGED.
5. ALL EXISTING HPS LUMINAIRES ON POLES AND TOWERS BEING REMOVED SHALL BE SALVAGED TO IDOT.
6. ALL EXISTING TRANSFORMER BASES BEING REMOVED SHALL BE SALVAGED TO IDOT.
7. EXISTING LIGHTING UNIT TO BE REMOVED AND SALVAGED TO IDOT.
8. MEDIAN MOUNTED LIGHT POLES, MAST ARMS, AND LUMINAIRES TO BE REMOVED, BARRIER WALL TO BE REPAIRED.
9. THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST TO THE DEPARTMENT.
10. EXISTING HPS LUMINAIRES BEING REMOVED ARE TO BE SALVAGED TO IDOT.

LT-04

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-94 /US 41 SMART HIGHWAY
LIGHTING REMOVAL PLANS

SCALE: 1" = 50' SHEET 4 OF 30 SHEETS STA. 480+00 TO STA. 495+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-071L	COOK	84	31
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

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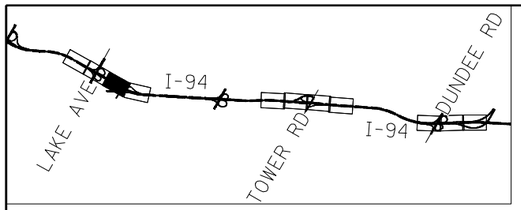

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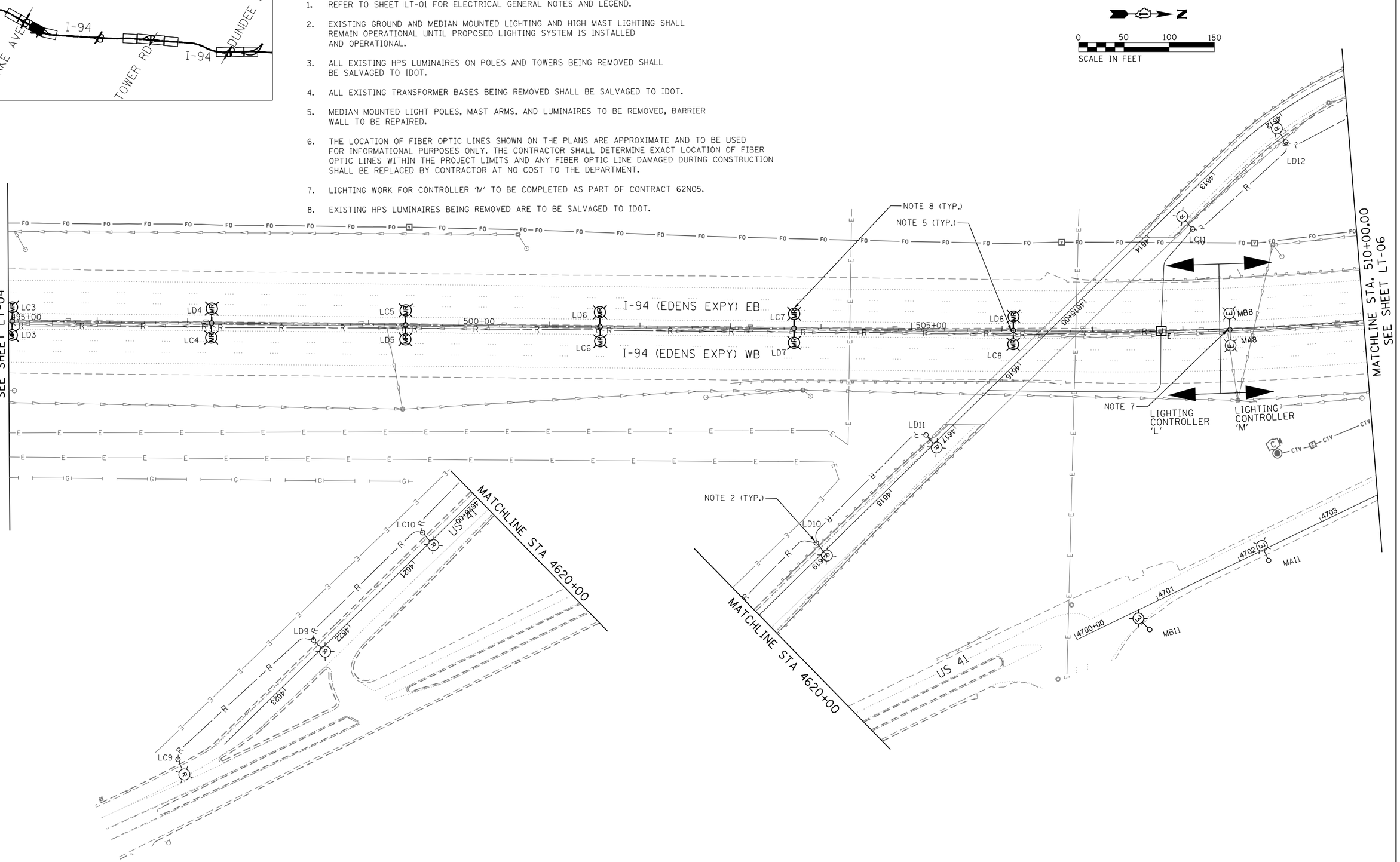
3. ALL EXISTING HPS LUMINAIRES ON POLES AND TOWERS BEING REMOVED SHALL BE SALVAGED TO IDOT.
4. ALL EXISTING TRANSFORMER BASES BEING REMOVED SHALL BE SALVAGED TO IDOT.
5. MEDIAN MOUNTED LIGHT POLES, MAST ARMS, AND LUMINAIRES TO BE REMOVED, BARRIER WALL TO BE REPAIRED.
6. THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST TO THE DEPARTMENT.
7. LIGHTING WORK FOR CONTROLLER 'M' TO BE COMPLETED AS PART OF CONTRACT 62N05.
8. EXISTING HPS LUMINAIRES BEING REMOVED ARE TO BE SALVAGED TO IDOT.



LT–05

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	USER NAME = OGORMAN	DESIGNED - VN	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–94 /US 41 SMART HIGHWAY
LIGHTING REMOVAL PLANS

SCALE: 1" = 50' SHEET 5 OF 30 SHEETS STA. 495+00 TO STA. 510+00

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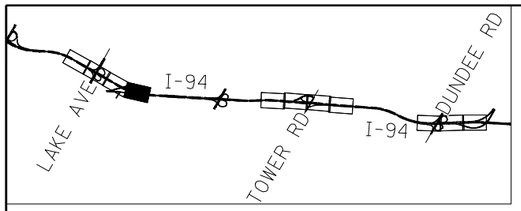
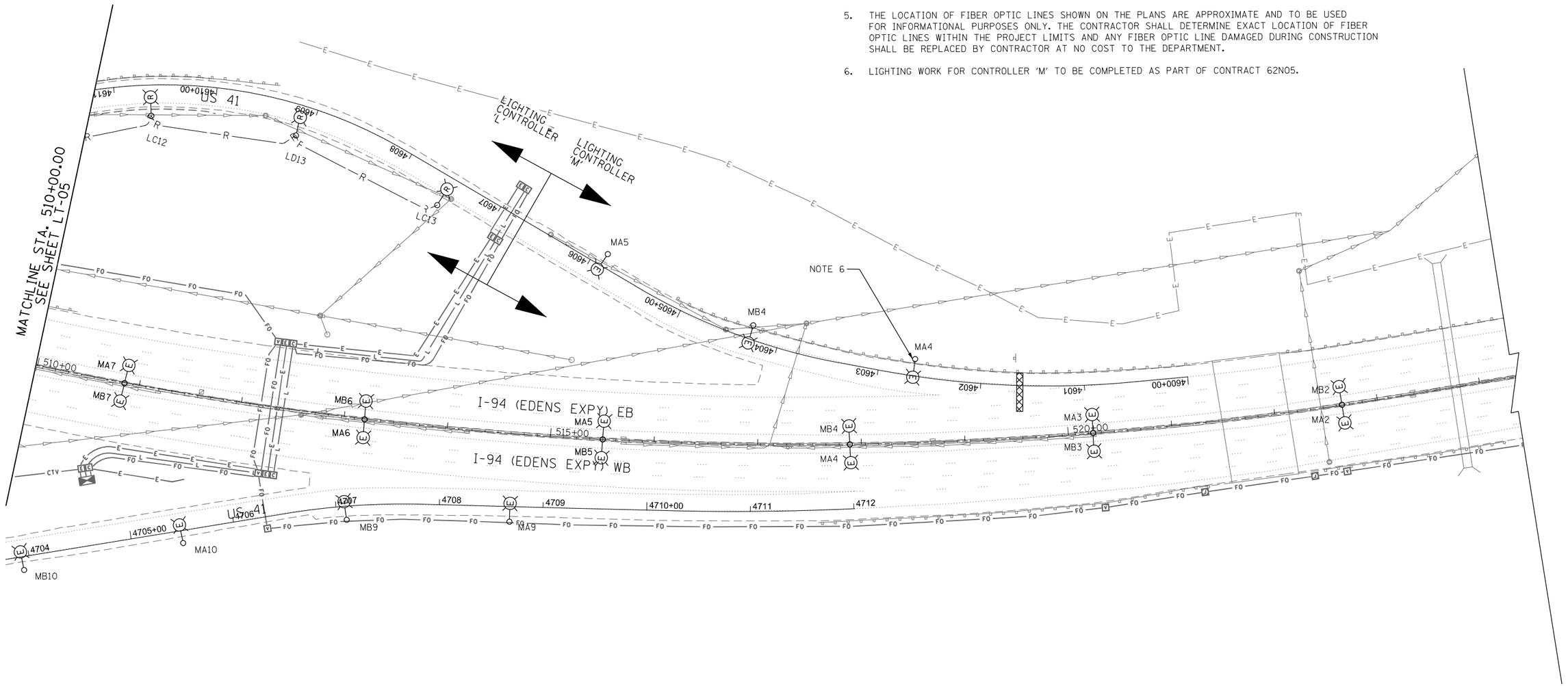


NOTES:

1. REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
2. EXISTING GROUND AND MEDIAN MOUNTED LIGHTING AND HIGH MAST LIGHTING SHALL REMAIN OPERATIONAL UNTIL PROPOSED LIGHTING SYSTEM IS INSTALLED AND OPERATIONAL.
3. ALL EXISTING HPS LUMINAIRES ON POLES AND TOWERS BEING REMOVED SHALL BE SALVAGED TO IDOT.
4. ALL EXISTING TRANSFORMER BASES BEING REMOVED SHALL BE SALVAGED TO IDOT.
5. THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST TO THE DEPARTMENT.
6. LIGHTING WORK FOR CONTROLLER 'M' TO BE COMPLETED AS PART OF CONTRACT 62N05.

N

0 50 100 150
SCALE IN FEET



LT–06

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–94 /US 41 SMART HIGHWAY
LIGHTING REMOVAL PLANS

SCALE: 1" = 50' SHEET 6 OF 30 SHEETS STA. 510+00 TO STA. 525+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-071L	COOK	84	33
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

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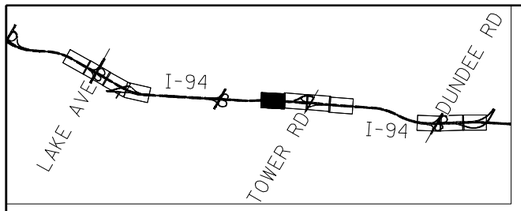
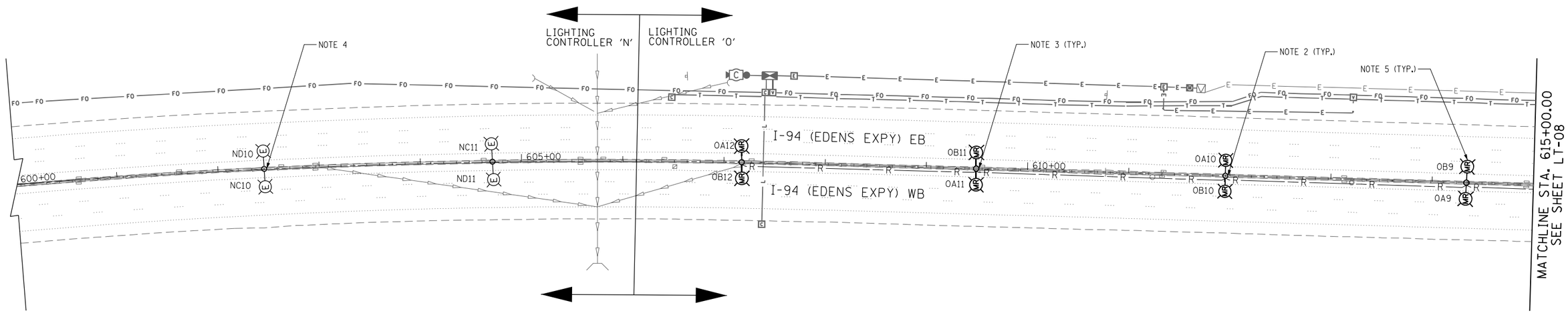
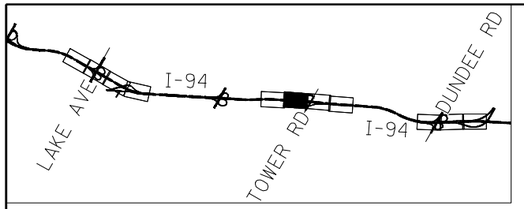


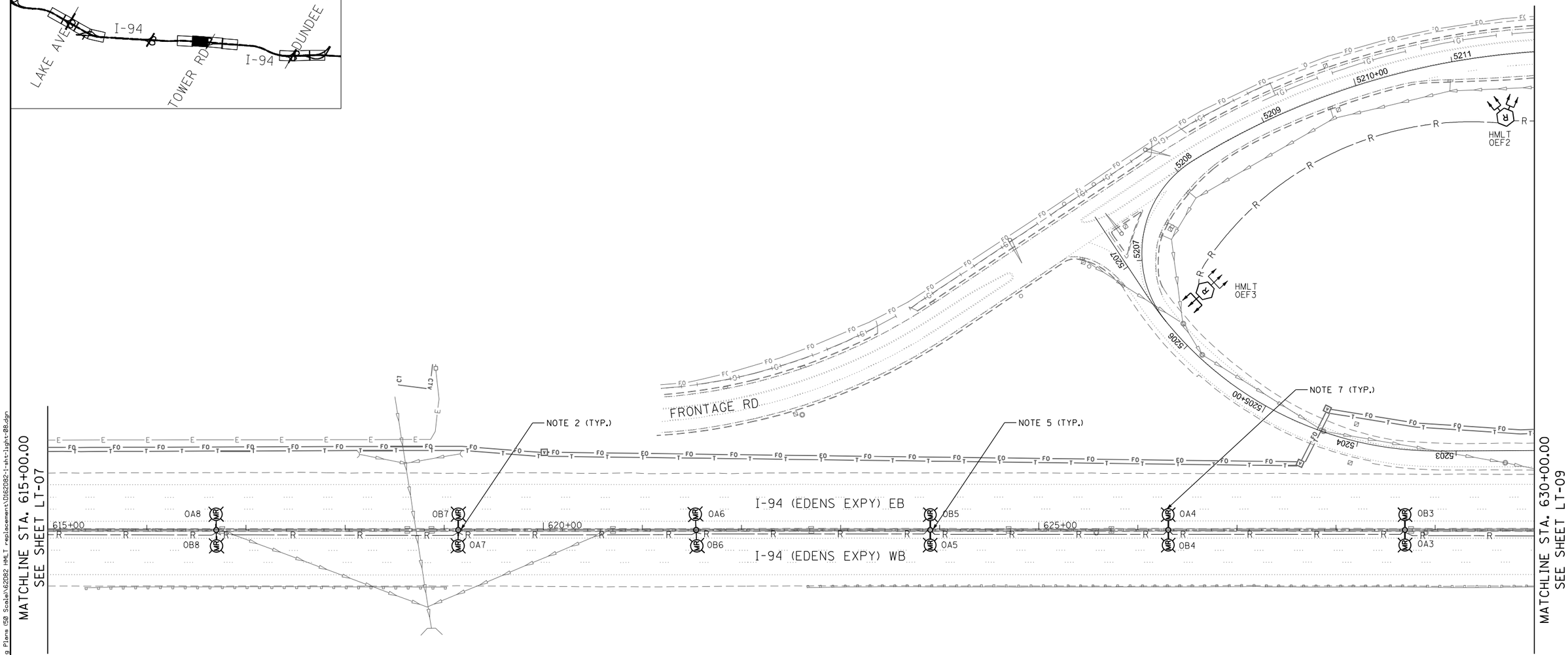


NOTES:

1. REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
2. EXISTING GROUND AND MEDIAN MOUNTED LIGHTING AND HIGH MAST LIGHTING SHALL REMAIN OPERATIONAL UNTIL PROPOSED LIGHTING SYSTEM IS INSTALLED AND OPERATIONAL.
3. MEDIAN MOUNTED LIGHT POLES, MAST ARMS, AND LUMINAIRES TO BE REMOVED, BARRIER WALL TO BE REPAIRED.
4. LIGHTING WORK FOR CONTROLLER 'N' TO BE COMPLETED AS PART OF CONTRACT 62N05
5. EXISTING HPS LUMINAIRES BEING REMOVED ARE TO BE SALVAGED TO IDOT.

LT–07





NOTES:

1. REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
2. EXISTING GROUND AND MEDIAN MOUNTED LIGHTING AND HIGH MAST LIGHTING SHALL REMAIN OPERATIONAL UNTIL PROPOSED LIGHTING SYSTEM IS INSTALLED AND OPERATIONAL.
3. ALL EXISTING HPS LUMINAIRES ON POLES AND TOWERS BEING REMOVED SHALL BE SALVAGED TO IDOT.
4. ALL EXISTING TRANSFORMER BASES BEING REMOVED SHALL BE SALVAGED TO IDOT.
5. MEDIAN MOUNTED LIGHT POLES, MAST ARMS, AND LUMINAIRES TO BE REMOVED, BARRIER WALL TO BE REPAIRED.
6. THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST TO THE DEPARTMENT.
7. EXISTING HPS LUMINAIRES BEING REMOVED ARE TO BE SALVAGED TO IDOT.

N

0 50 100 150
SCALE IN FEET

LT–08

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

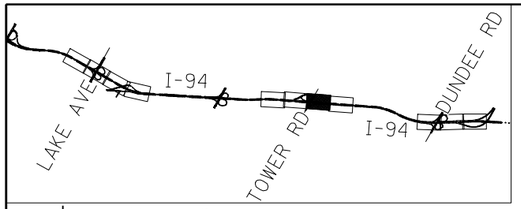
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

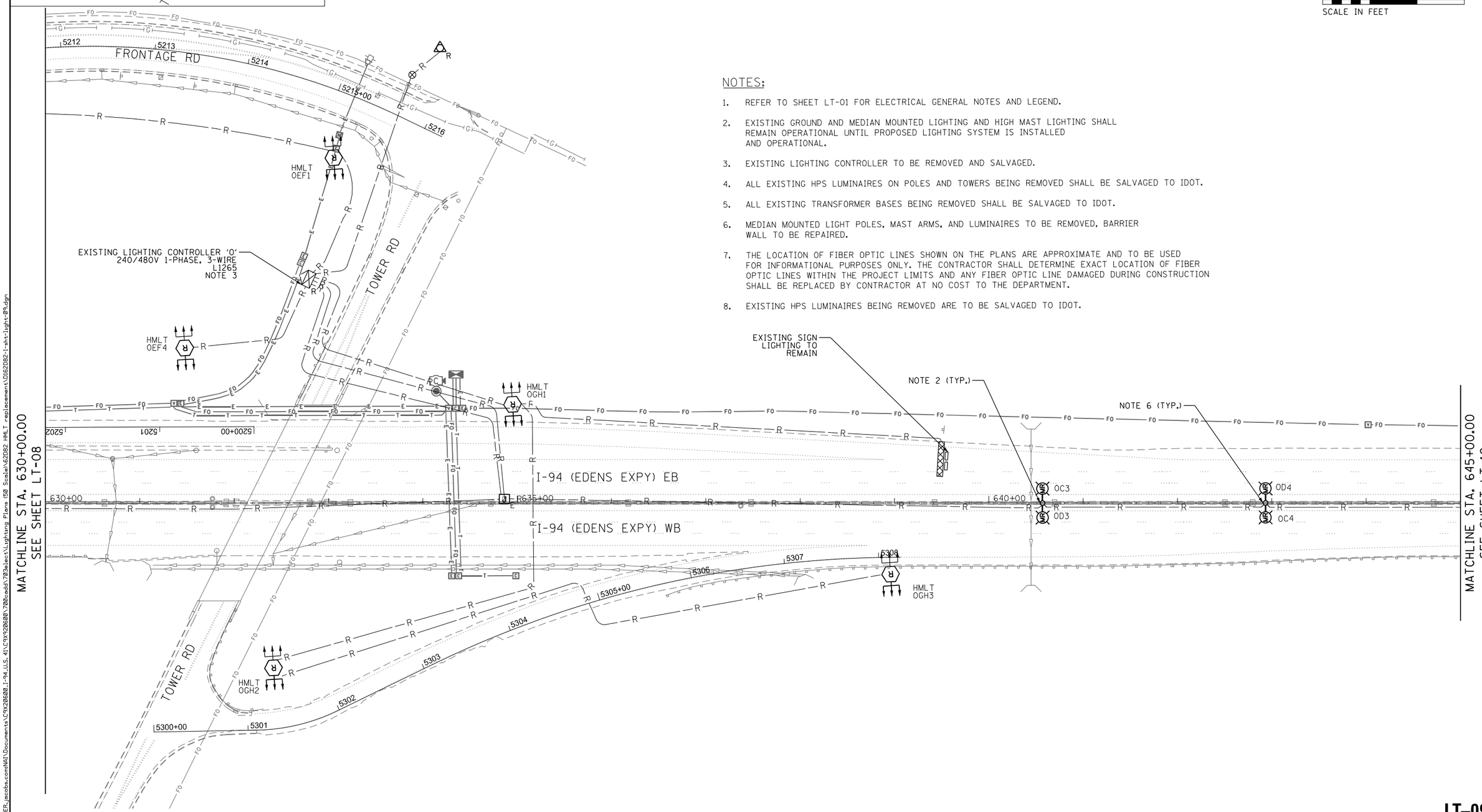
I-94 /US 41 SMART HIGHWAY
LIGHTING REMOVAL PLANS

SCALE: 1" = 50' SHEET 8 OF 30 SHEETS STA. 615+00 TO STA. 630+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-071L	COOK	84	35
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

pw:\\Projects\Live\AMER_Jacobs.com\NA1\Documents\C%20600_I-94_US_41\C%20600%20Cadd\703select\Lighting Plans (50 Scale)\62D82 HMLT replacement\D162082-I-ahs-light-08.dgn





0 50 100 150
SCALE IN FEET

NOTES:

1. REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
2. EXISTING GROUND AND MEDIAN MOUNTED LIGHTING AND HIGH MAST LIGHTING SHALL REMAIN OPERATIONAL UNTIL PROPOSED LIGHTING SYSTEM IS INSTALLED AND OPERATIONAL.
3. EXISTING LIGHTING CONTROLLER TO BE REMOVED AND SALVAGED.
4. ALL EXISTING HPS LUMINAIRES ON POLES AND TOWERS BEING REMOVED SHALL BE SALVAGED TO IDOT.
5. ALL EXISTING TRANSFORMER BASES BEING REMOVED SHALL BE SALVAGED TO IDOT.
6. MEDIAN MOUNTED LIGHT POLES, MAST ARMS, AND LUMINAIRES TO BE REMOVED, BARRIER WALL TO BE REPAIRED.
7. THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST TO THE DEPARTMENT.
8. EXISTING HPS LUMINAIRES BEING REMOVED ARE TO BE SALVAGED TO IDOT.

LT–09

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–94 /US 41 SMART HIGHWAY
LIGHTING REMOVAL PLANS

SCALE: 1" = 50' SHEET 9 OF 30 SHEETS STA. 630+00 TO STA. 645+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-071L	COOK	84	36
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

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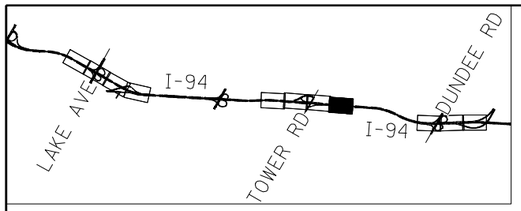

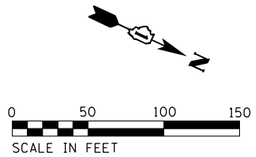

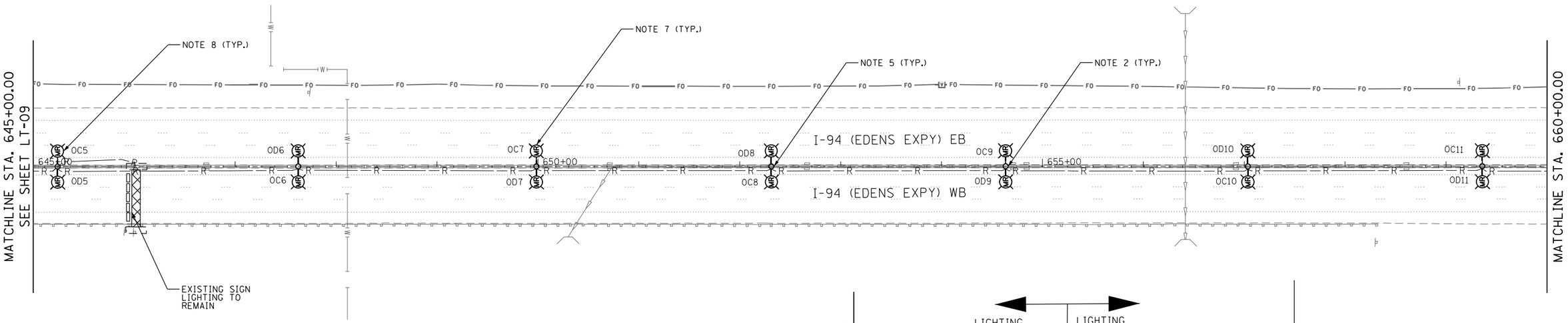

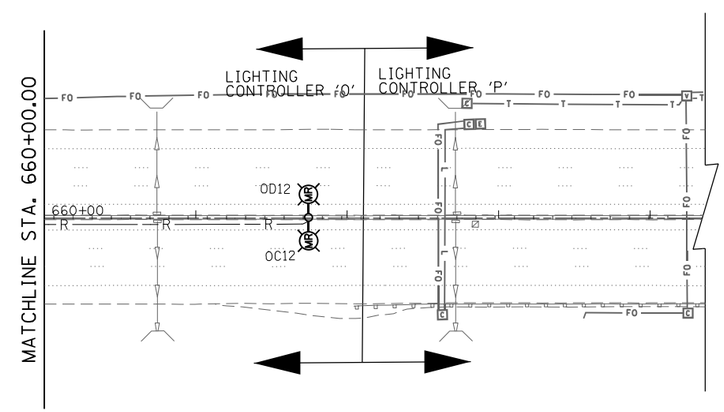

NOTES:

1. REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
2. EXISTING GROUND AND MEDIAN MOUNTED LIGHTING AND HIGH MAST LIGHTING SHALL REMAIN OPERATIONAL UNTIL PROPOSED LIGHTING SYSTEM IS INSTALLED AND OPERATIONAL.
3. ALL EXISTING HPS LUMINAIRES ON POLES AND TOWERS BEING REMOVED SHALL BE SALVAGED TO IDOT.
4. ALL EXISTING TRANSFORMER BASES BEING REMOVED SHALL BE SALVAGED TO IDOT.
5. MEDIAN MOUNTED LIGHT POLES, MAST ARMS, AND LUMINAIRES TO BE REMOVED, BARRIER WALL TO BE REPAIRED.
6. THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST TO THE DEPARTMENT.
7. EXISTING HPS LUMINAIRES BEING REMOVED ARE TO BE SALVAGED TO IDOT.

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SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

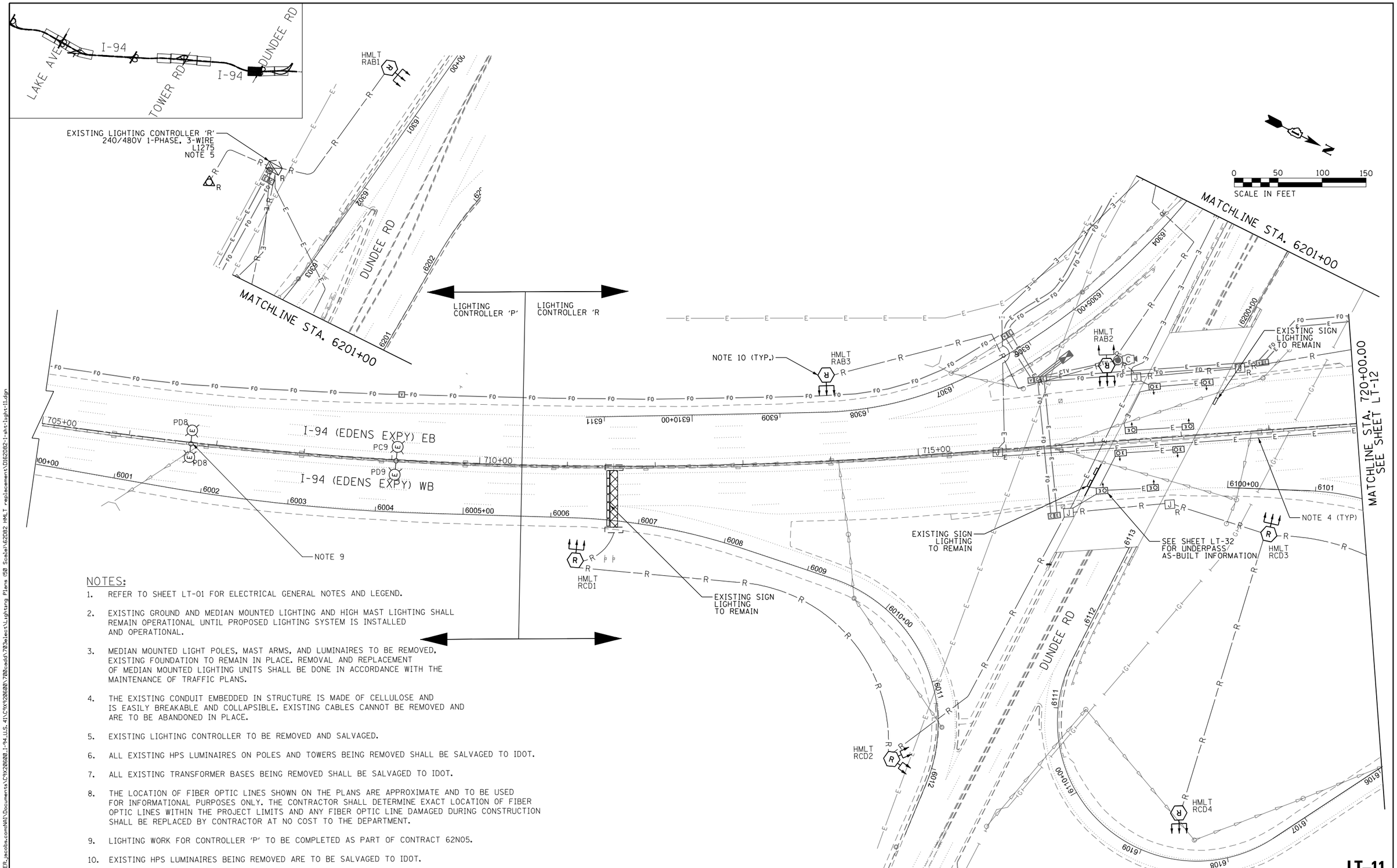
USER NAME = OGORMAN	DESIGNED - VN	REVISED -	
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-94 /US 41 SMART HIGHWAY
LIGHTING REMOVAL PLANS

SCALE: 1" = 50' SHEET 10 OF 30 SHEETS STA. 645+00 TO STA. 660+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-071L	COOK	84	37
		CONTRACT NO. 62D82		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
2. EXISTING GROUND AND MEDIAN MOUNTED LIGHTING AND HIGH MAST LIGHTING SHALL REMAIN OPERATIONAL UNTIL PROPOSED LIGHTING SYSTEM IS INSTALLED AND OPERATIONAL.
3. MEDIAN MOUNTED LIGHT POLES, MAST ARMS, AND LUMINAIRES TO BE REMOVED. EXISTING FOUNDATION TO REMAIN IN PLACE. REMOVAL AND REPLACEMENT OF MEDIAN MOUNTED LIGHTING UNITS SHALL BE DONE IN ACCORDANCE WITH THE MAINTENANCE OF TRAFFIC PLANS.
4. THE EXISTING CONDUIT EMBEDDED IN STRUCTURE IS MADE OF CELLULOSE AND IS EASILY BREAKABLE AND COLLAPSIBLE. EXISTING CABLES CANNOT BE REMOVED AND ARE TO BE ABANDONED IN PLACE.
5. EXISTING LIGHTING CONTROLLER TO BE REMOVED AND SALVAGED.
6. ALL EXISTING HPS LUMINAIRES ON POLES AND TOWERS BEING REMOVED SHALL BE SALVAGED TO IDOT.
7. ALL EXISTING TRANSFORMER BASES BEING REMOVED SHALL BE SALVAGED TO IDOT.
8. THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST TO THE DEPARTMENT.
9. LIGHTING WORK FOR CONTROLLER 'P' TO BE COMPLETED AS PART OF CONTRACT 62N05.
10. EXISTING HPS LUMINAIRES BEING REMOVED ARE TO BE SALVAGED TO IDOT.

LT-11

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-94 /US 41 SMART HIGHWAY
LIGHTING REMOVAL PLANS

SCALE: 1" = 50' SHEET 11 OF 30 SHEETS STA. 705+00 TO STA. 720+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-071L	COOK	84	38
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

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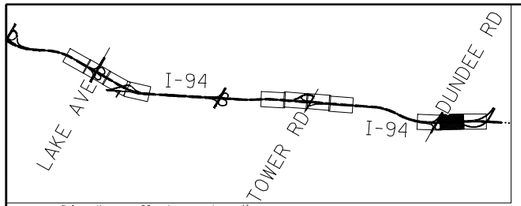

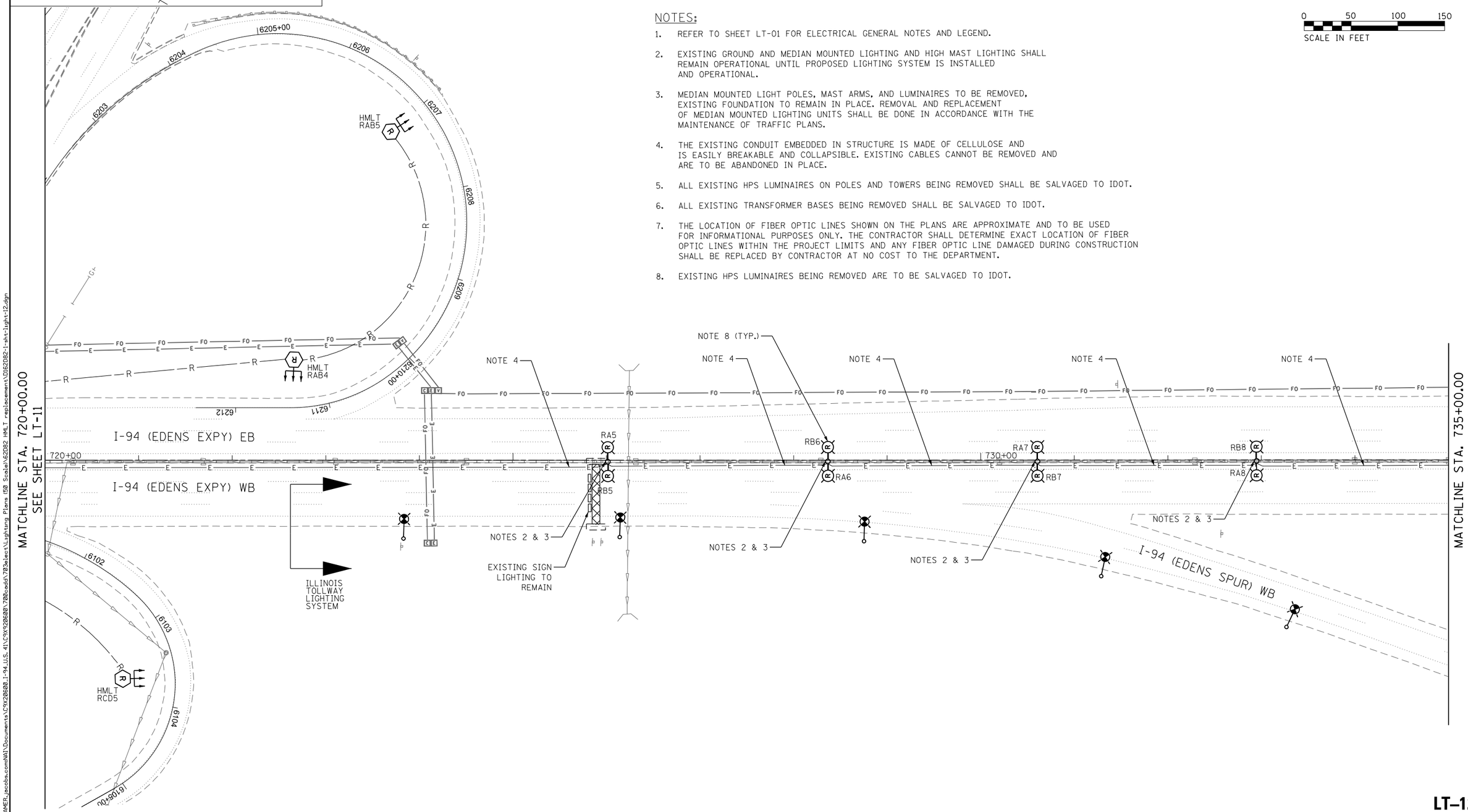

NOTES:

1. REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
2. EXISTING GROUND AND MEDIAN MOUNTED LIGHTING AND HIGH MAST LIGHTING SHALL REMAIN OPERATIONAL UNTIL PROPOSED LIGHTING SYSTEM IS INSTALLED AND OPERATIONAL.
3. MEDIAN MOUNTED LIGHT POLES, MAST ARMS, AND LUMINAIRES TO BE REMOVED, EXISTING FOUNDATION TO REMAIN IN PLACE. REMOVAL AND REPLACEMENT OF MEDIAN MOUNTED LIGHTING UNITS SHALL BE DONE IN ACCORDANCE WITH THE MAINTENANCE OF TRAFFIC PLANS.
4. THE EXISTING CONDUIT EMBEDDED IN STRUCTURE IS MADE OF CELLULOSE AND IS EASILY BREAKABLE AND COLLAPSIBLE. EXISTING CABLES CANNOT BE REMOVED AND ARE TO BE ABANDONED IN PLACE.
5. ALL EXISTING HPS LUMINAIRES ON POLES AND TOWERS BEING REMOVED SHALL BE SALVAGED TO IDOT.
6. ALL EXISTING TRANSFORMER BASES BEING REMOVED SHALL BE SALVAGED TO IDOT.
7. THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST TO THE DEPARTMENT.
8. EXISTING HPS LUMINAIRES BEING REMOVED ARE TO BE SALVAGED TO IDOT.

0 50 100 150
SCALE IN FEET

LT–12

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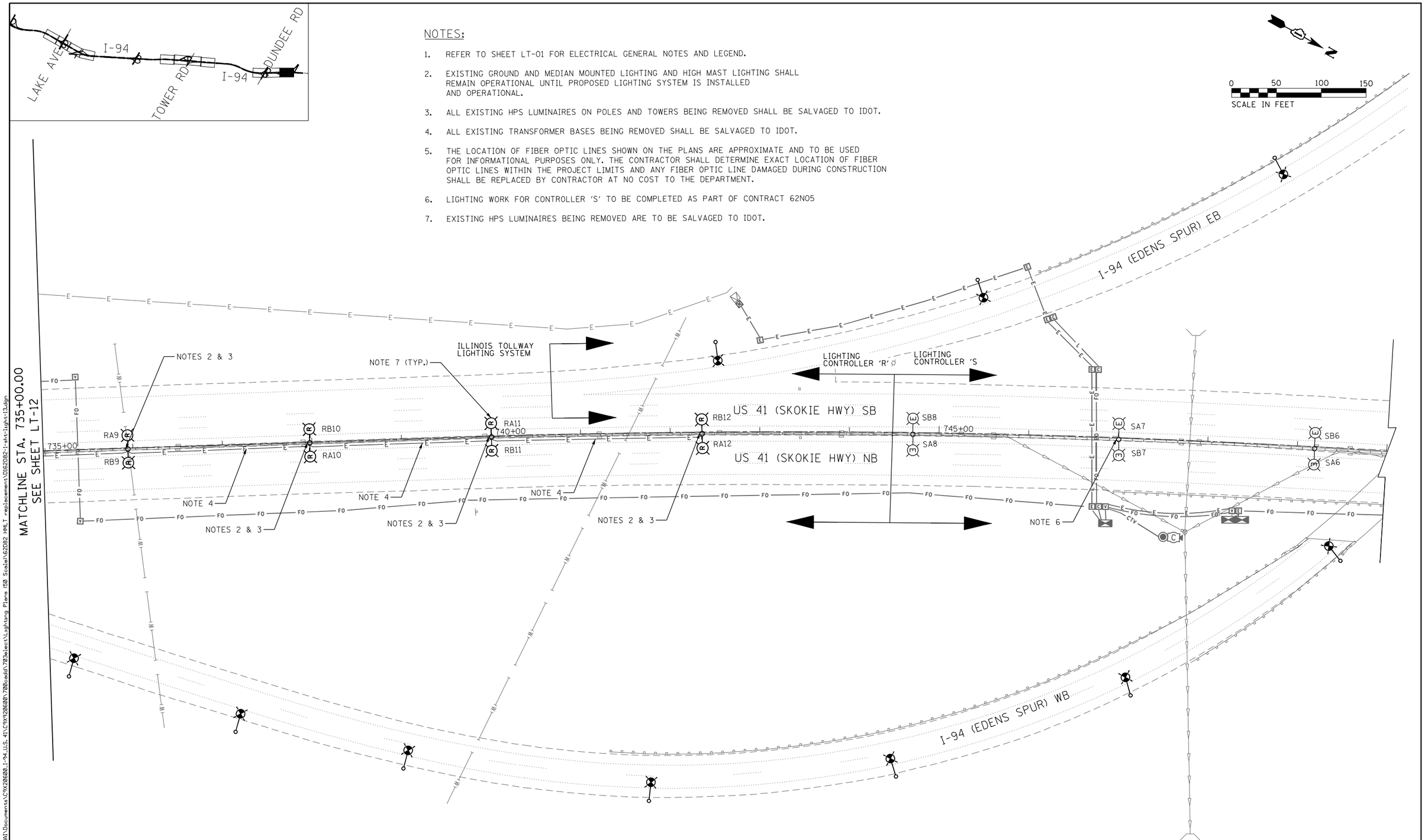
NOTES:

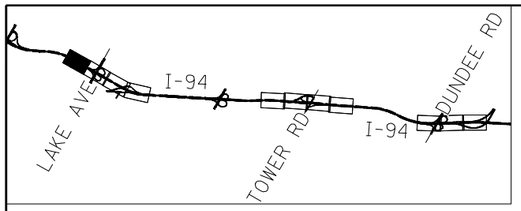
1. REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
2. EXISTING GROUND AND MEDIAN MOUNTED LIGHTING AND HIGH MAST LIGHTING SHALL REMAIN OPERATIONAL UNTIL PROPOSED LIGHTING SYSTEM IS INSTALLED AND OPERATIONAL.
3. ALL EXISTING HPS LUMINAIRES ON POLES AND TOWERS BEING REMOVED SHALL BE SALVAGED TO IDOT.
4. ALL EXISTING TRANSFORMER BASES BEING REMOVED SHALL BE SALVAGED TO IDOT.
5. THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST TO THE DEPARTMENT.
6. LIGHTING WORK FOR CONTROLLER 'S' TO BE COMPLETED AS PART OF CONTRACT 62N05
7. EXISTING HPS LUMINAIRES BEING REMOVED ARE TO BE SALVAGED TO IDOT.

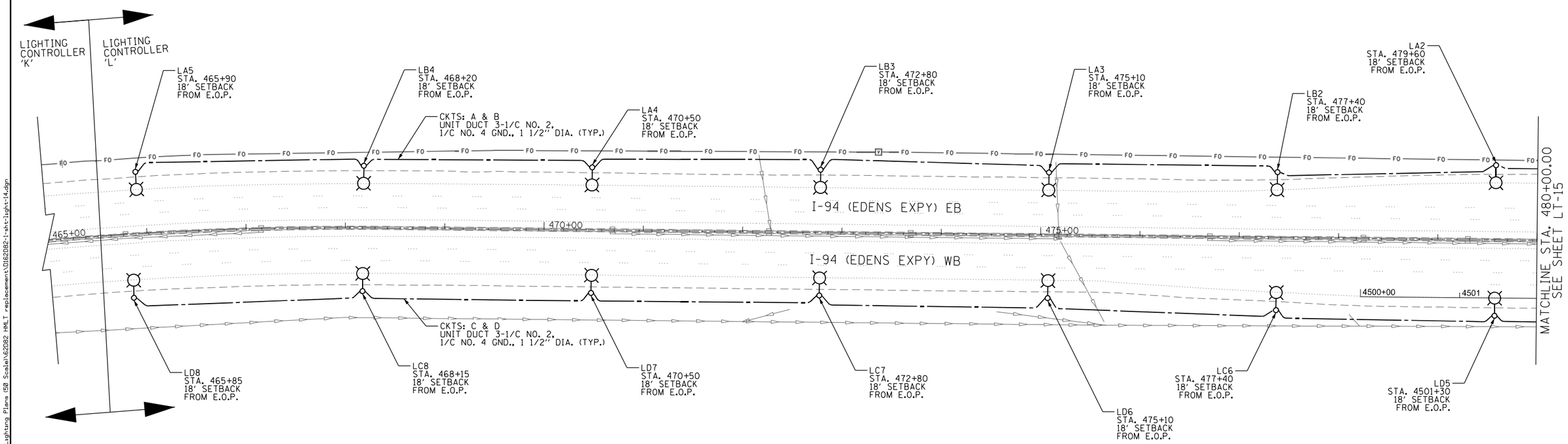


LT–13

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	USER NAME = OGORMAN	DESIGNED - VN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-94 /US 41 SMART HIGHWAY LIGHTING REMOVAL PLANS	F.A.I RTE. 94	SECTION 2016-071L	COUNTY COOK / TOTAL SHEETS 84 / SHEET NO. 40
		DRAWN - VN	REVISED -					CONTRACT NO. 62D82
	PLOT SCALE =	CHECKED - RP/MG	REVISED -					
	PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -		SCALE: 1" = 50' SHEET 13 OF 30 SHEETS STA. 735+00 TO STA. 750+00		ILLINOIS FED. AID PROJECT	

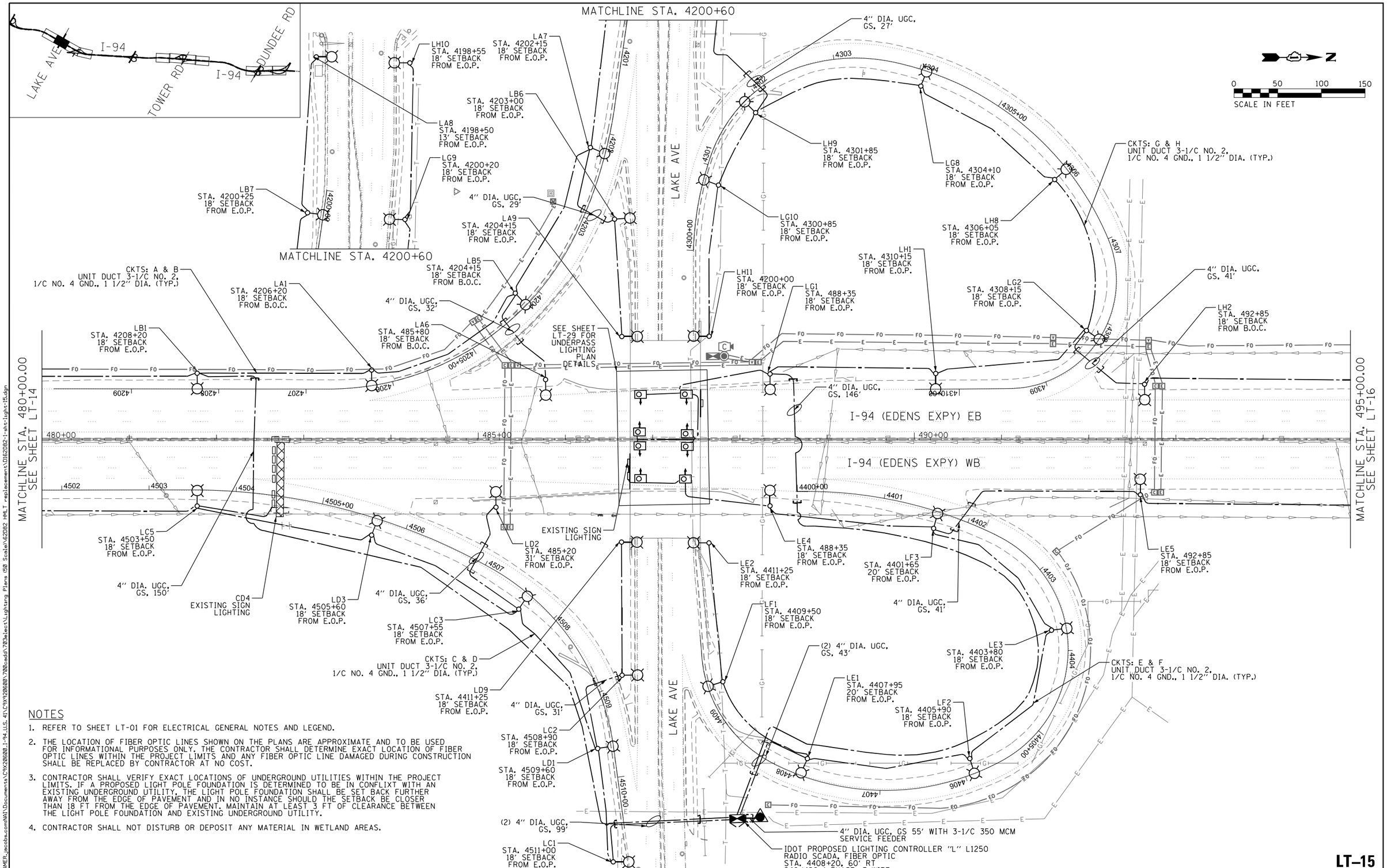
pw:\\Projectwise\MER_jacobs.com\M1\Documents\C9X206080_I-94_US_41\C9X206080\700Cadd\703elect\Lighting Plans (50 Scale)\62D82 HMLT replacement\D162D82-I-ahs-light-L3.dgn





NOTES

1. REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
2. THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST TO THE DEPARTMENT.
3. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS. IF A PROPOSED LIGHT POLE FOUNDATION IS DETERMINED TO BE IN CONFLIXT WITH AN EXISTING UNDERGROUND UTILITY, THE LIGHT POLE FOUNDATION SHALL BE SET BACK FURTHER AWAY FROM THE EDGE OF PAVEMENT AND IN NO INSTANCE SHOULD THE SETBACK BE CLOSER THAN 18 FT FROM THE EDGE OF PAVEMENT. MAINTAIN AT LEAST 3 FT OF CLEARANCE BETWEEN THE LIGHT POLE FOUNDATION AND EXISTING UNDERGROUND UTILITY.
4. CONTRACTOR SHALL NOT DISTRUB OR DEPOSIT ANY MATERIAL IN WETLAND AREAS.



NOTES

1. REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
2. THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST.
3. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS. IF A PROPOSED LIGHT POLE FOUNDATION IS DETERMINED TO BE IN CONFLIXT WITH AN EXISTING UNDERGROUND UTILITY, THE LIGHT POLE FOUNDATION SHALL BE SET BACK FURTHER AWAY FROM THE EDGE OF PAVEMENT AND IN NO INSTANCE SHOULD THE SETBACK BE CLOSER THAN 18 FT FROM THE EDGE OF PAVEMENT. MAINTAIN AT LEAST 3 FT OF CLEARANCE BETWEEN THE LIGHT POLE FOUNDATION AND EXISTING UNDERGROUND UTILITY.
4. CONTRACTOR SHALL NOT DISTURB OR DEPOSIT ANY MATERIAL IN WETLAND AREAS.

LT-15

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

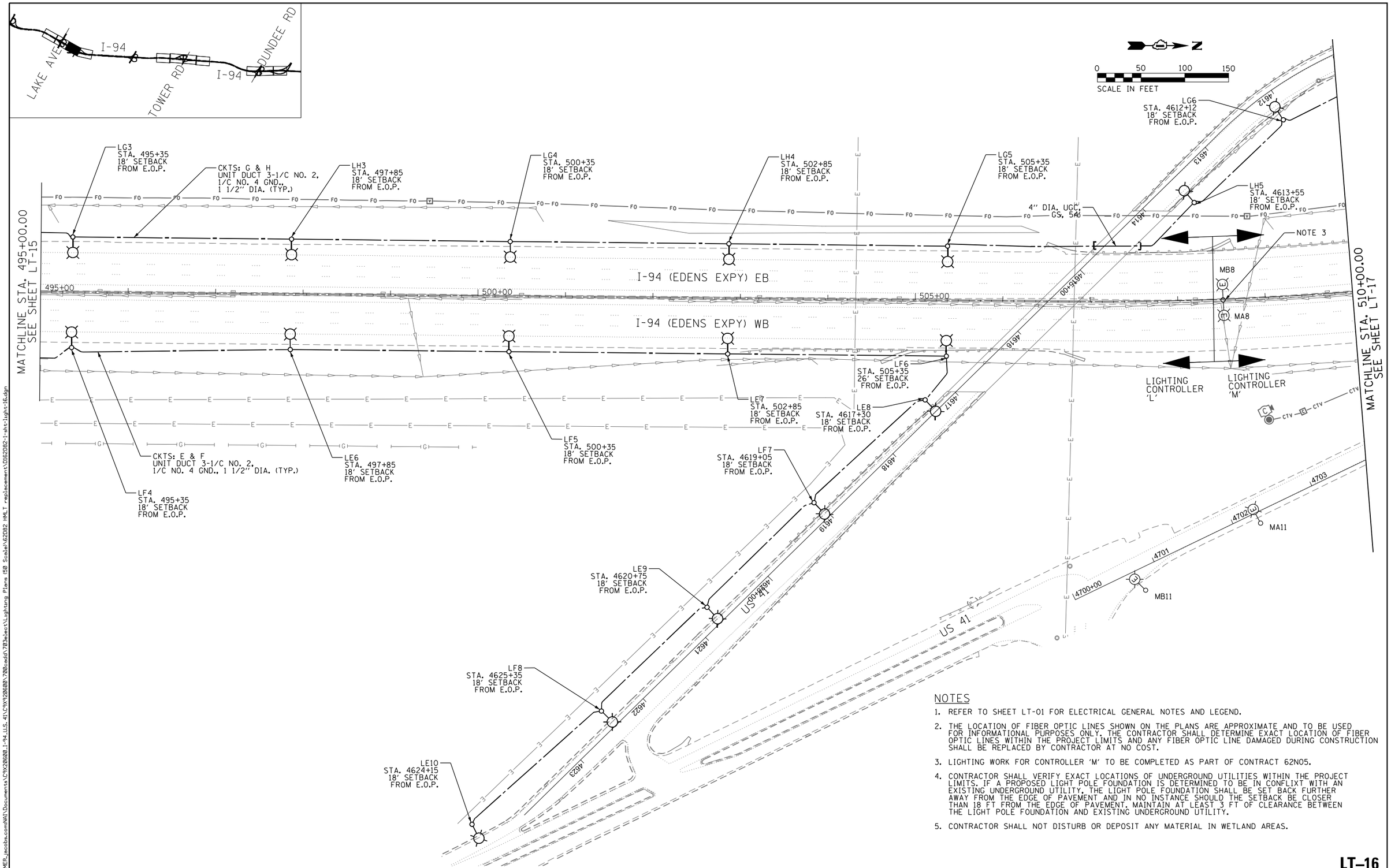
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-94 /US 41 SMART HIGHWAY
PROPOSED LIGHTING PLANS

SCALE: 1" = 50' SHEET 15 OF 30 SHEETS STA. 480+00 TO STA. 495+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-071L	COOK	84	42
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

pw:\\ProjectWise\MER_jacobs.com\M1\Documents\C9X20600.I-94_U.S._41\C9X20600.700cadd\703elect\Lighting Plans (GD Scale)\62D82 HMLT replacement\D162D82-I-sht-light-l15.dgn



NOTES

1. REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
2. THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST.
3. LIGHTING WORK FOR CONTROLLER 'M' TO BE COMPLETED AS PART OF CONTRACT 62N05.
4. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS. IF A PROPOSED LIGHT POLE FOUNDATION IS DETERMINED TO BE IN CONFLIXT WITH AN EXISTING UNDERGROUND UTILITY, THE LIGHT POLE FOUNDATION SHALL BE SET BACK FURTHER AWAY FROM THE EDGE OF PAVEMENT AND IN NO INSTANCE SHOULD THE SETBACK BE CLOSER THAN 18 FT FROM THE EDGE OF PAVEMENT. MAINTAIN AT LEAST 3 FT OF CLEARANCE BETWEEN THE LIGHT POLE FOUNDATION AND EXISTING UNDERGROUND UTILITY.
5. CONTRACTOR SHALL NOT DISTURB OR DEPOSIT ANY MATERIAL IN WETLAND AREAS.

LT–16

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

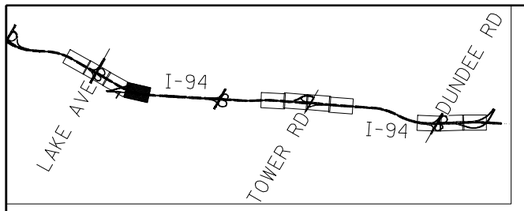
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

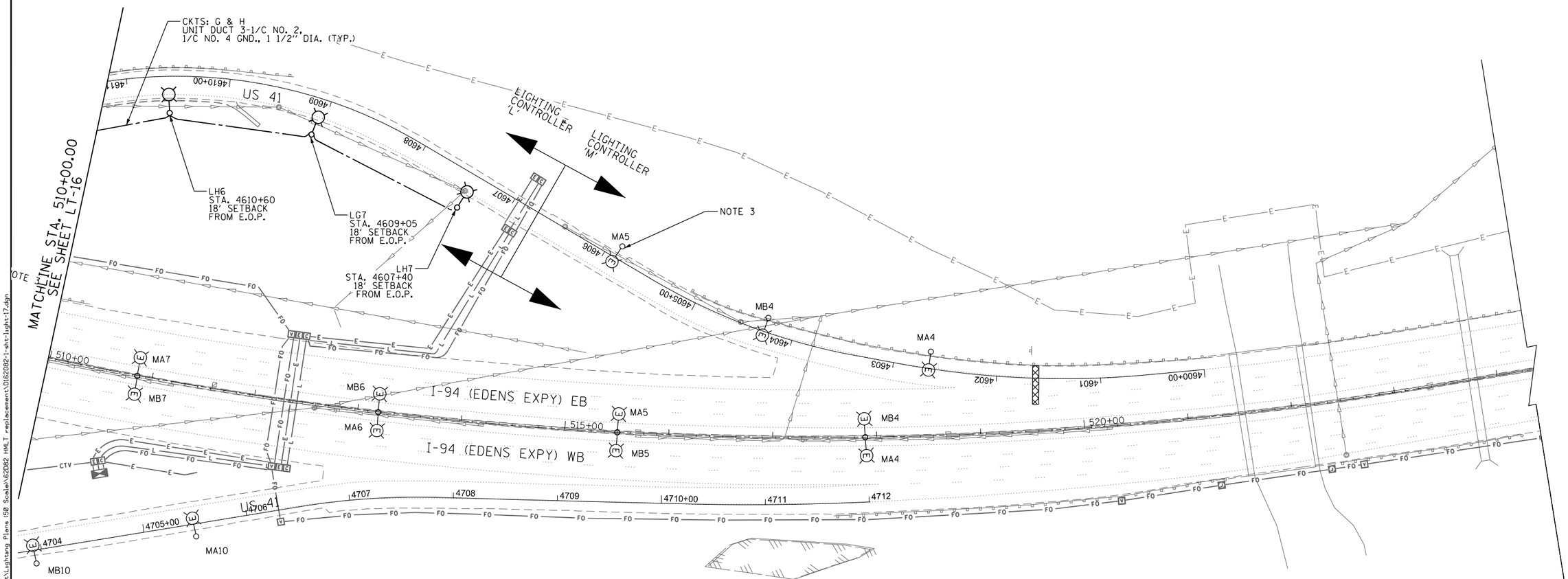
I–94 /US 41 SMART HIGHWAY
PROPOSED LIGHTING PLANS

SCALE: 1" = 50' SHEET 16 OF 30 SHEETS STA. 495+00 TO STA. 510+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-071L	COOK	84	43
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

pw:\\ProjectWise\MER_jacobs.com\MJ\Documents\C9X20608_I-94_US_41\C9X20608\700cadd\703plans\Lighting Plans (50 Scale)\62D82 HMLT replacement\D162D82-I-sht-light-16.dgn





NOTES

1. REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
2. THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST.
3. LIGHTING WORK FOR CONTROLLER 'M' TO BE COMPLETED AS PART OF CONTRACT 62N05.
4. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS. IF A PROPOSED LIGHT POLE FOUNDATION IS DETERMINED TO BE IN CONFLIXT WITH AN EXISTING UNDERGROUND UTILITY, THE LIGHT POLE FOUNDATION SHALL BE SET BACK FURTHER AWAY FROM THE EDGE OF PAVEMENT AND IN NO INSTANCE SHOULD THE SETBACK BE CLOSER THAN 18 FT FROM THE EDGE OF PAVEMENT. MAINTAIN AT LEAST 3 FT OF CLEARANCE BETWEEN THE LIGHT POLE FOUNDATION AND EXISTING UNDERGROUND UTILITY.
5. CONTRACTOR SHALL NOT DISTURB OR DEPOSIT ANY MATERIAL IN WETLAND AREAS.

LT–17

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–94 /US 41 SMART HIGHWAY
PROPOSED LIGHTING PLANS

SCALE: 1" = 50' SHEET 17 OF 30 SHEETS STA. 510+00 TO STA. 525+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-071L	COOK	84	44
		CONTRACT NO. 62D82		
	ILLINOIS FED. AID PROJECT			

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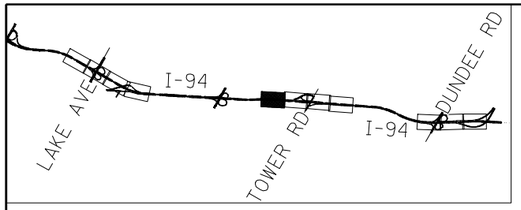

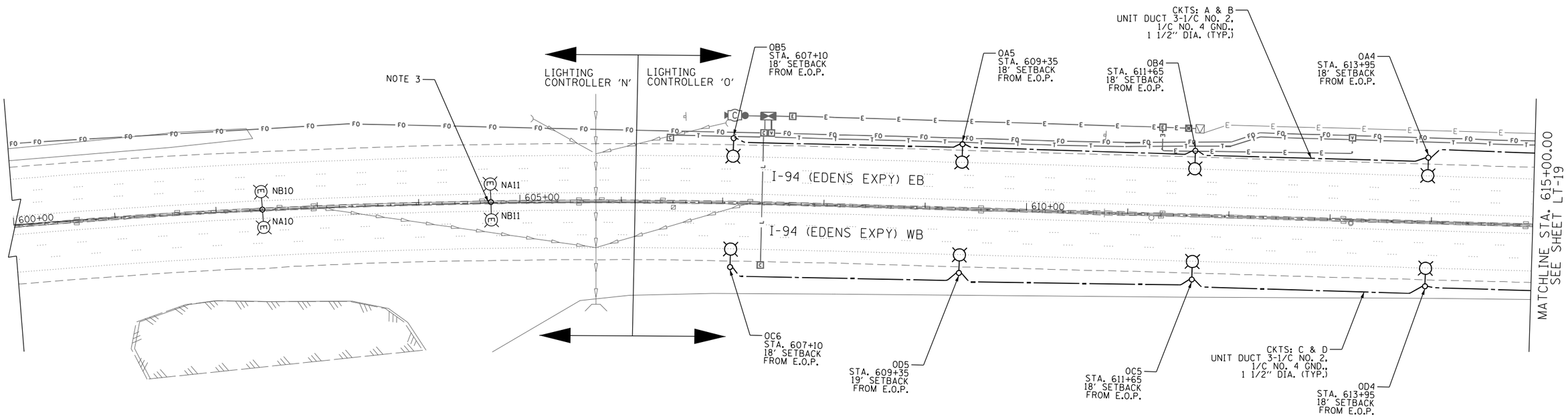

NOTES

1. REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
2. THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST.
3. LIGHTING WORK FOR CONTROLLER 'N' TO BE COMPLETED AS PART OF CONTRACT 62N05.
4. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS. IF A PROPOSED LIGHT POLE FOUNDATION IS DETERMINED TO BE IN CONFLIXT WITH AN EXISTING UNDERGROUND UTILITY, THE LIGHT POLE FOUNDATION SHALL BE SET BACK FURTHER AWAY FROM THE EDGE OF PAVEMENT AND IN NO INSTANCE SHOULD THE SETBACK BE CLOSER THAN 18 FT FROM THE EDGE OF PAVEMENT. MAINTAIN AT LEAST 3 FT OF CLEARANCE BETWEEN THE LIGHT POLE FOUNDATION AND EXISTING UNDERGROUND UTILITY.
5. CONTRACTOR SHALL NOT DISTURB OR DEPOSIT ANY MATERIAL IN WETLAND AREAS.

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-94 /US 41 SMART HIGHWAY
PROPOSED LIGHTING PLANS

SCALE: 1" = 50' SHEET 18 OF 30 SHEETS STA. 600+00 TO STA. 615+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-07IL	COOK	84	45
		CONTRACT NO. 62D82		
	ILLINOIS FED. AID PROJECT			

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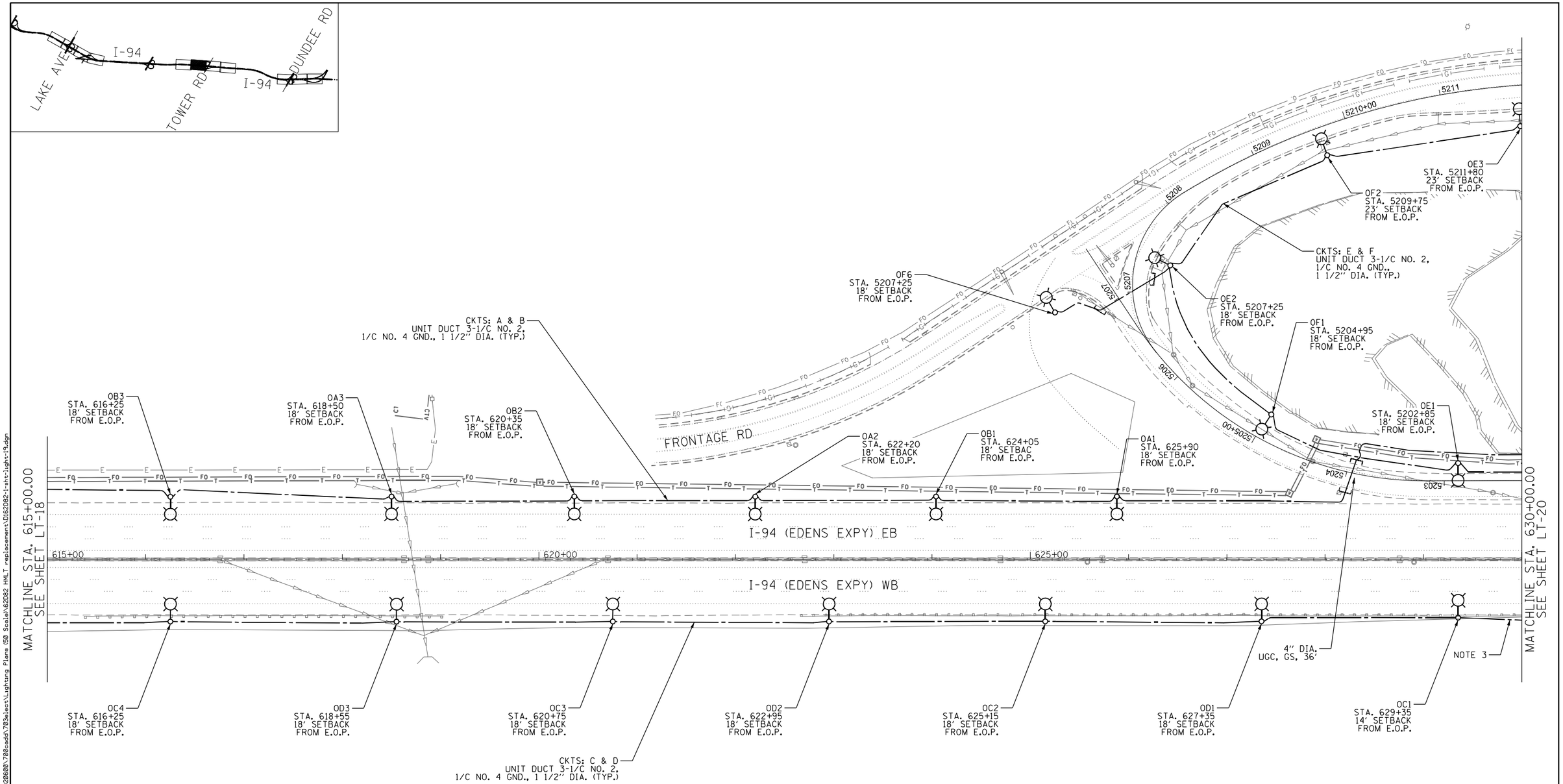

NOTES

1. REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
2. THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST.
3. PROPOSED UNIT DUCT CROSSING BENEATH THE WETLAND SHALL BE INSTALLED IN A WAY THAT WETLAND SHALL NOT BE IMPACTED DURING INSTALLATION. THE PROPOSED BORING AND RECEIVING PUTS SHALL BE OUTSIDE OF THE DELINEATED WETLAND BOUNDARIES.
4. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS. IF A PROPOSED LIGHT POLE FOUNDATION IS DETERMINED TO BE IN CONFLIXT WITH AN EXISTING UNDERGROUND UTILITY, THE LIGHT POLE FOUNDATION SHALL BE SET BACK FURTHER AWAY FROM THE EDGE OF PAVEMENT AND IN NO INSTANCE SHOULD THE SETBACK BE CLOSER THAN 18 FT FROM THE EDGE OF PAVEMENT. MAINTAIN AT LEAST 3 FT OF CLEARANCE BETWEEN THE LIGHT POLE FOUNDATION AND EXISTING UNDERGROUND UTILITY.
5. CONTRACTOR SHALL NOT DISTURB OR DEPOSIT ANY MATERIAL IN WETLAND AREAS.

0 50 100 150
SCALE IN FEET

LT–19

SINGH
SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–94 /US 41 SMART HIGHWAY
PROPOSED LIGHTING PLANS

SCALE: 1" = 50' SHEET 19 OF 30 SHEETS STA. 615+00 TO STA. 630+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-071L	COOK	84	46
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

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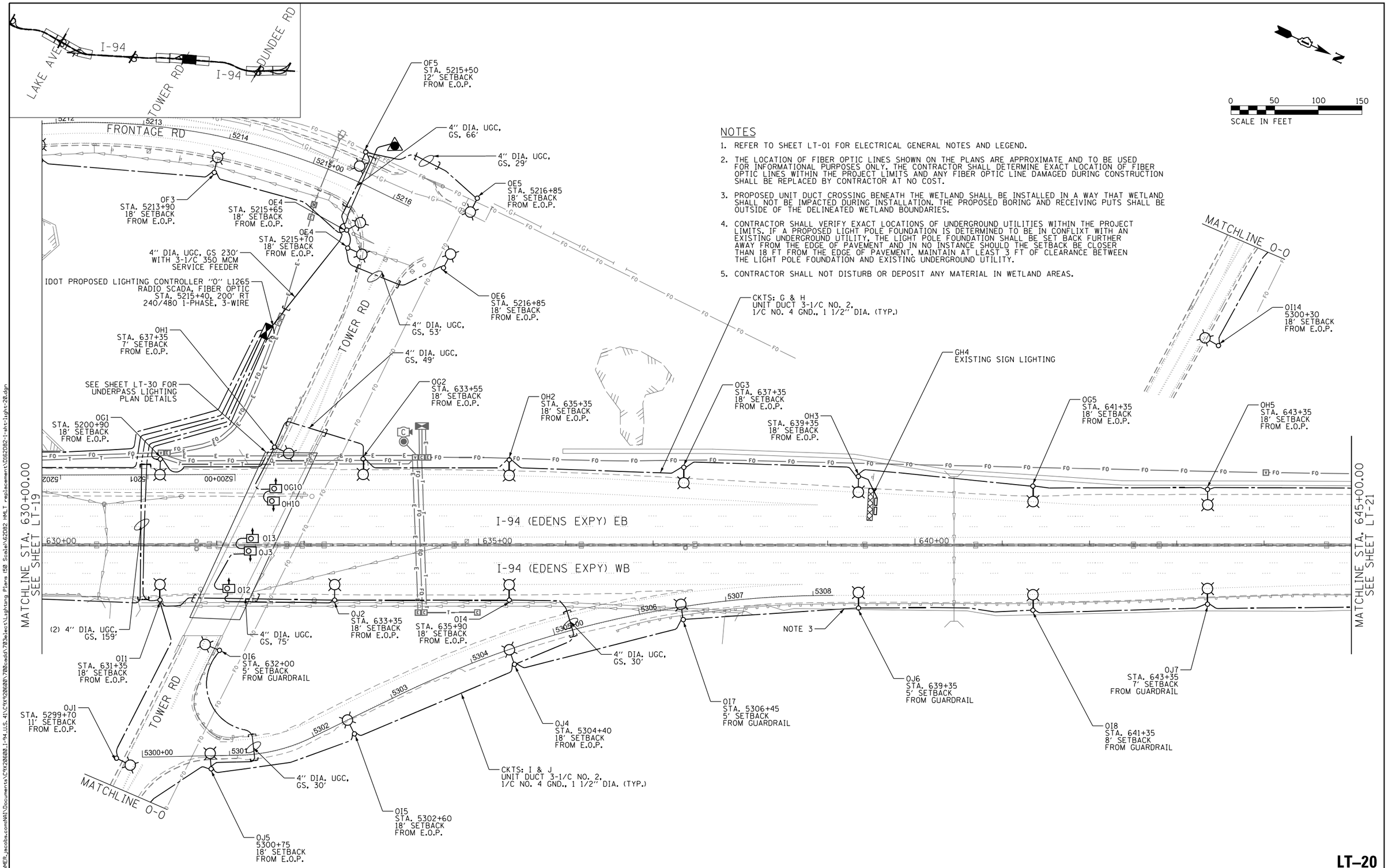

NOTES

1. REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
2. THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST.
3. PROPOSED UNIT DUCT CROSSING BENEATH THE WETLAND SHALL BE INSTALLED IN A WAY THAT WETLAND SHALL NOT BE IMPACTED DURING INSTALLATION. THE PROPOSED BORING AND RECEIVING PUTS SHALL BE OUTSIDE OF THE DELINEATED WETLAND BOUNDARIES.
4. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS. IF A PROPOSED LIGHT POLE FOUNDATION IS DETERMINED TO BE IN CONFLIXT WITH AN EXISTING UNDERGROUND UTILITY, THE LIGHT POLE FOUNDATION SHALL BE SET BACK FURTHER AWAY FROM THE EDGE OF PAVEMENT AND IN NO INSTANCE SHOULD THE SETBACK BE CLOSER THAN 18 FT FROM THE EDGE OF PAVEMENT. MAINTAIN AT LEAST 3 FT OF CLEARANCE BETWEEN THE LIGHT POLE FOUNDATION AND EXISTING UNDERGROUND UTILITY.
5. CONTRACTOR SHALL NOT DISTURB OR DEPOSIT ANY MATERIAL IN WETLAND AREAS.

LT–20

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–94 /US 41 SMART HIGHWAY
PROPOSED LIGHTING PLANS

SCALE: 1" = 50' SHEET 20 OF 30 SHEETS STA. 630+00 TO STA. 645+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-071L	COOK	84	47
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

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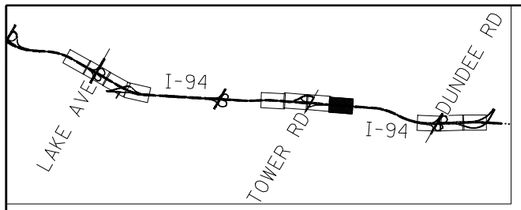

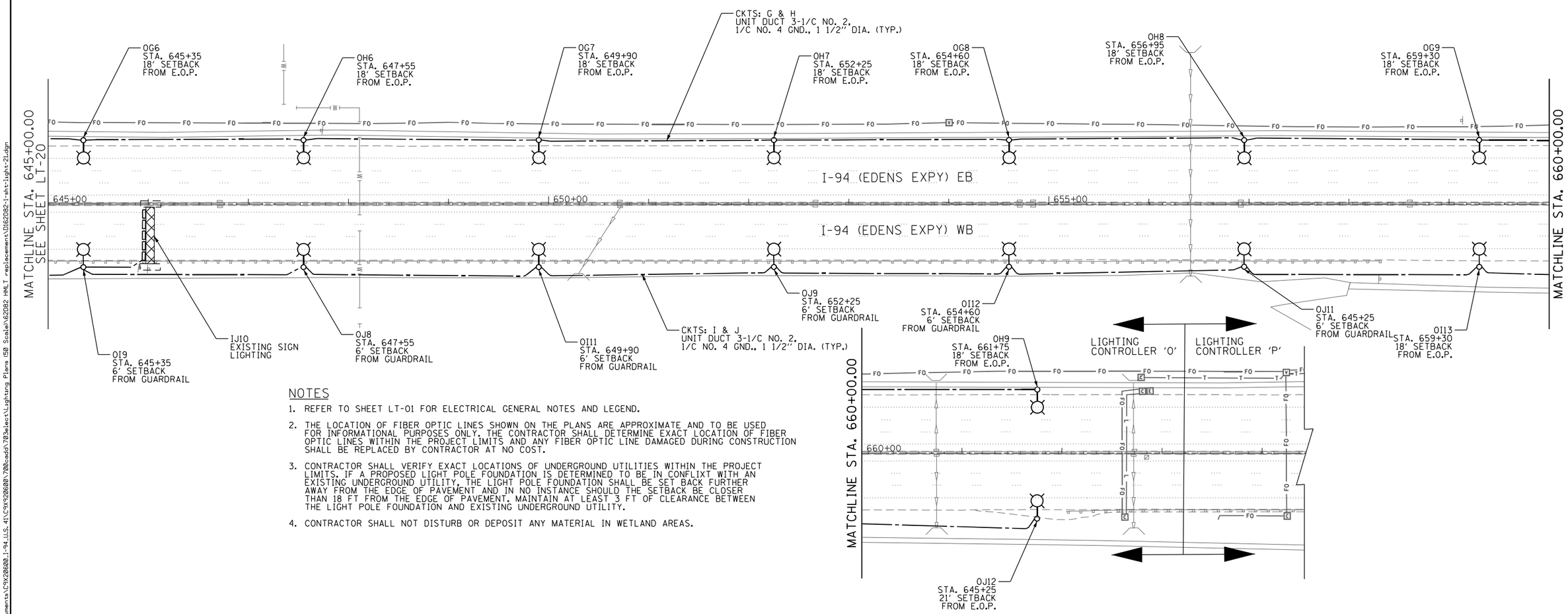

NOTES

1. REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
2. THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST.
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4. CONTRACTOR SHALL NOT DISTURB OR DEPOSIT ANY MATERIAL IN WETLAND AREAS.

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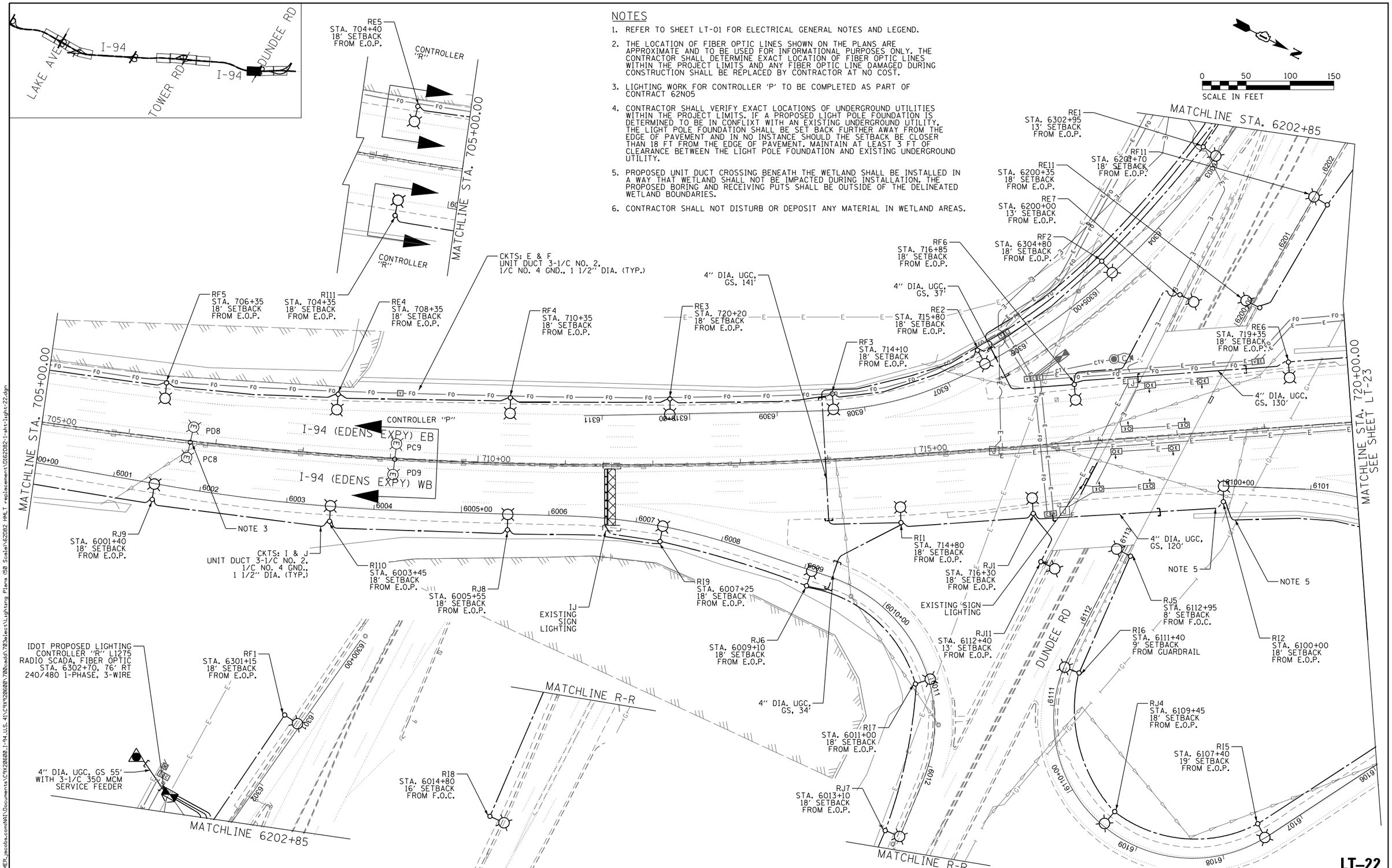
NOTES

1. REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
2. THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST.
3. LIGHTING WORK FOR CONTROLLER 'P' TO BE COMPLETED AS PART OF CONTRACT 62N05
4. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS. IF A PROPOSED LIGHT POLE FOUNDATION IS DETERMINED TO BE IN CONFLIXT WITH AN EXISTING UNDERGROUND UTILITY, THE LIGHT POLE FOUNDATION SHALL BE SET BACK FURTHER AWAY FROM THE EDGE OF PAVEMENT AND IN NO INSTANCE SHOULD THE SETBACK BE CLOSER THAN 18 FT FROM THE EDGE OF PAVEMENT. MAINTAIN AT LEAST 3 FT OF CLEARANCE BETWEEN THE LIGHT POLE FOUNDATION AND EXISTING UNDERGROUND UTILITY.
5. PROPOSED UNIT DUCT CROSSING BENEATH THE WETLAND SHALL BE INSTALLED IN A WAY THAT WETLAND SHALL NOT BE IMPACTED DURING INSTALLATION. THE PROPOSED BORING AND RECEIVING PUTS SHALL BE OUTSIDE OF THE DELINEATED WETLAND BOUNDARIES.
6. CONTRACTOR SHALL NOT DISTURB OR DEPOSIT ANY MATERIAL IN WETLAND AREAS.



LT–22

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

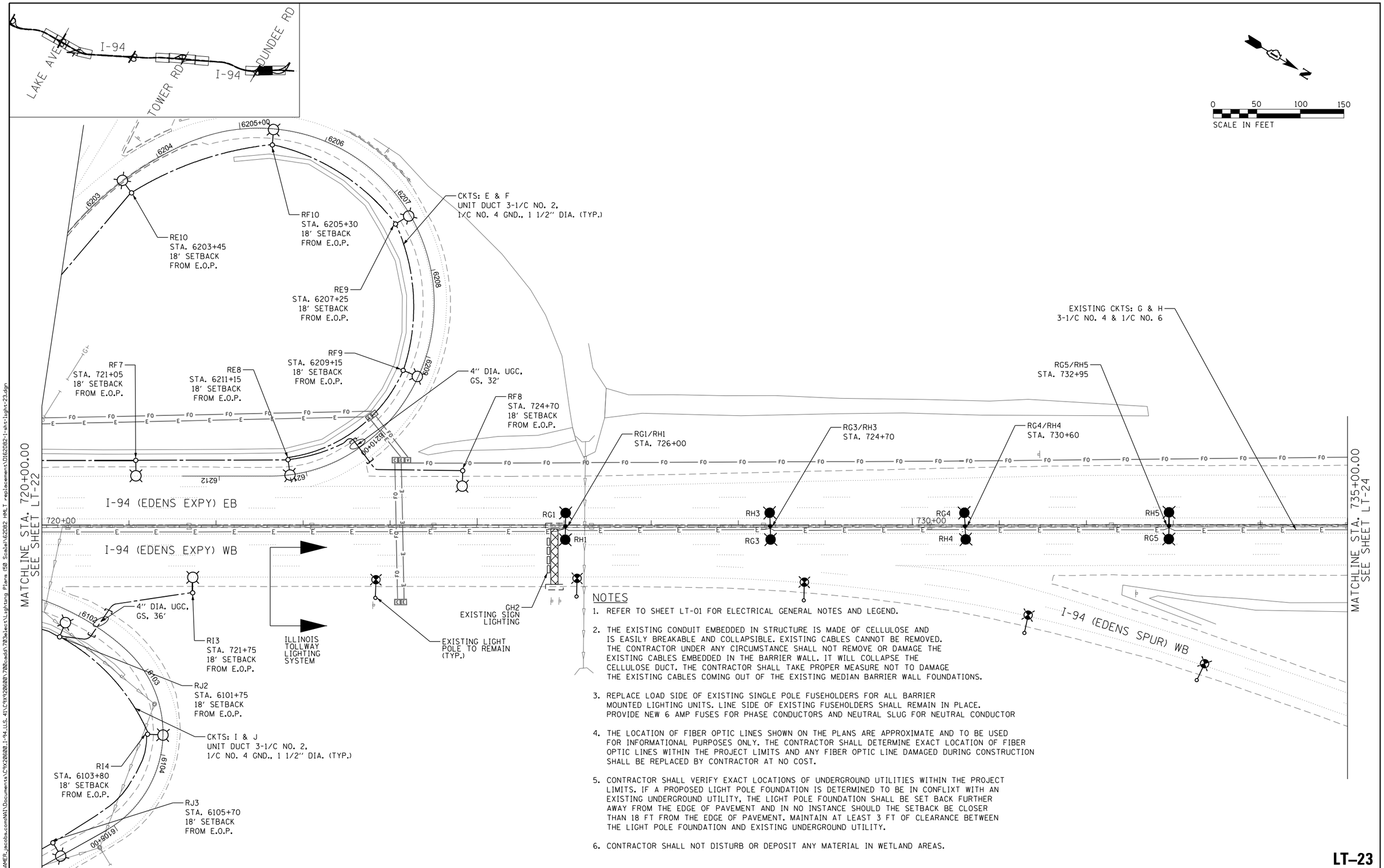
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-94 /US 41 SMART HIGHWAY
PROPOSED LIGHTING PLANS

SCALE: 1" = 50' SHEET 22 OF 30 SHEETS STA. 705+00 TO STA. 720+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-071L	COOK	84	49
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

pw:\\Projects\Wsea\MER.jacobs.com\M01\Documents\C%20608.1-94.US.41\C%20608\700cadd\783elect\Lighting Plans (50 Scale)\62D82 HML T replacement\D162082-1-ahx-light-22.dgn



NOTES

1. REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
2. THE EXISTING CONDUIT EMBEDDED IN STRUCTURE IS MADE OF CELLULOSE AND IS EASILY BREAKABLE AND COLLAPSIBLE. EXISTING CABLES CANNOT BE REMOVED. THE CONTRACTOR UNDER ANY CIRCUMSTANCE SHALL NOT REMOVE OR DAMAGE THE EXISTING CABLES EMBEDDED IN THE BARRIER WALL. IT WILL COLLAPSE THE CELLULOSE DUCT. THE CONTRACTOR SHALL TAKE PROPER MEASURE NOT TO DAMAGE THE EXISTING CABLES COMING OUT OF THE EXISTING MEDIAN BARRIER WALL FOUNDATIONS.
3. REPLACE LOAD SIDE OF EXISTING SINGLE POLE FUSEHOLDERS FOR ALL BARRIER MOUNTED LIGHTING UNITS. LINE SIDE OF EXISTING FUSEHOLDERS SHALL REMAIN IN PLACE. PROVIDE NEW 6 AMP FUSES FOR PHASE CONDUCTORS AND NEUTRAL SLUG FOR NEUTRAL CONDUCTOR
4. THE LOCATION OF FIBER OPTIC LINES SHOWN ON THE PLANS ARE APPROXIMATE AND TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION OF FIBER OPTIC LINES WITHIN THE PROJECT LIMITS AND ANY FIBER OPTIC LINE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR AT NO COST.
5. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS. IF A PROPOSED LIGHT POLE FOUNDATION IS DETERMINED TO BE IN CONFLIXT WITH AN EXISTING UNDERGROUND UTILITY, THE LIGHT POLE FOUNDATION SHALL BE SET BACK FURTHER AWAY FROM THE EDGE OF PAVEMENT AND IN NO INSTANCE SHOULD THE SETBACK BE CLOSER THAN 18 FT FROM THE EDGE OF PAVEMENT. MAINTAIN AT LEAST 3 FT OF CLEARANCE BETWEEN THE LIGHT POLE FOUNDATION AND EXISTING UNDERGROUND UTILITY.
6. CONTRACTOR SHALL NOT DISTURB OR DEPOSIT ANY MATERIAL IN WETLAND AREAS.

LT–23

SINGH
SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-94 /US 41 SMART HIGHWAY
PROPOSED LIGHTING PLANS

SCALE: 1" = 50' SHEET 23 OF 30 SHEETS STA. 720+00 TO STA. 735+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-071L	COOK	84	50
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

pw:\\Projectwise\MER_jacobs.com\MN\Documents\C9X20608.I-94_U.S._41\C9X20608\708cadd\703elec\Lighting Plans (50 Scale)\62D82 HMLT replacement\D162082-1-ahx-light-23.dgn

NOTES

1. REFER TO SHEET LT-01 FOR ELECTRICAL GENERAL NOTES AND LEGEND.
2. THE EXISTING CONDUIT EMBEDDED IN STRUCTURE IS MADE OF CELLULOSE AND IS EASILY BREAKABLE AND COLLAPSIBLE. EXISTING CABLES CANNOT BE REMOVED. THE CONTRACTOR UNDER ANY CIRCUMSTANCE SHALL NOT REMOVE OR DAMAGE THE EXISTING CABLES EMBEDDED IN THE BARRIER WALL. IT WILL COLLAPSE THE CELLULOSE DUCT. THE CONTRACTOR SHALL TAKE PROPER MEASURE NOT TO DAMAGE THE EXISTING CABLES COMING OUT OF THE EXISTING MEDIAN BARRIER WALL FOUNDATIONS.
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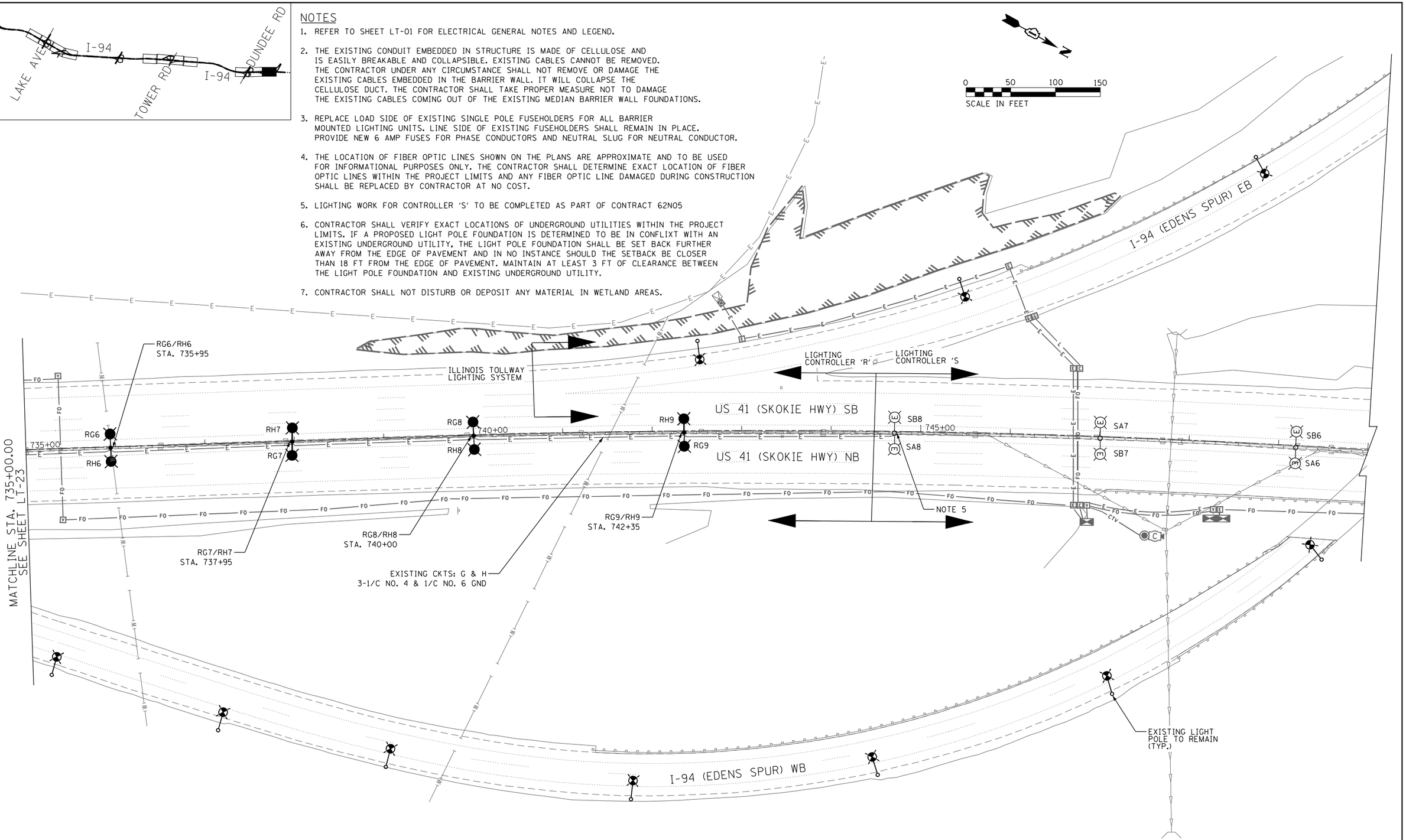
5. LIGHTING WORK FOR CONTROLLER 'S' TO BE COMPLETED AS PART OF CONTRACT 62N05
6. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS. IF A PROPOSED LIGHT POLE FOUNDATION IS DETERMINED TO BE IN CONFLIXT WITH AN EXISTING UNDERGROUND UTILITY, THE LIGHT POLE FOUNDATION SHALL BE SET BACK FURTHER AWAY FROM THE EDGE OF PAVEMENT AND IN NO INSTANCE SHOULD THE SETBACK BE CLOSER THAN 18 FT FROM THE EDGE OF PAVEMENT. MAINTAIN AT LEAST 3 FT OF CLEARANCE BETWEEN THE LIGHT POLE FOUNDATION AND EXISTING UNDERGROUND UTILITY.
7. CONTRACTOR SHALL NOT DISTURB OR DEPOSIT ANY MATERIAL IN WETLAND AREAS.



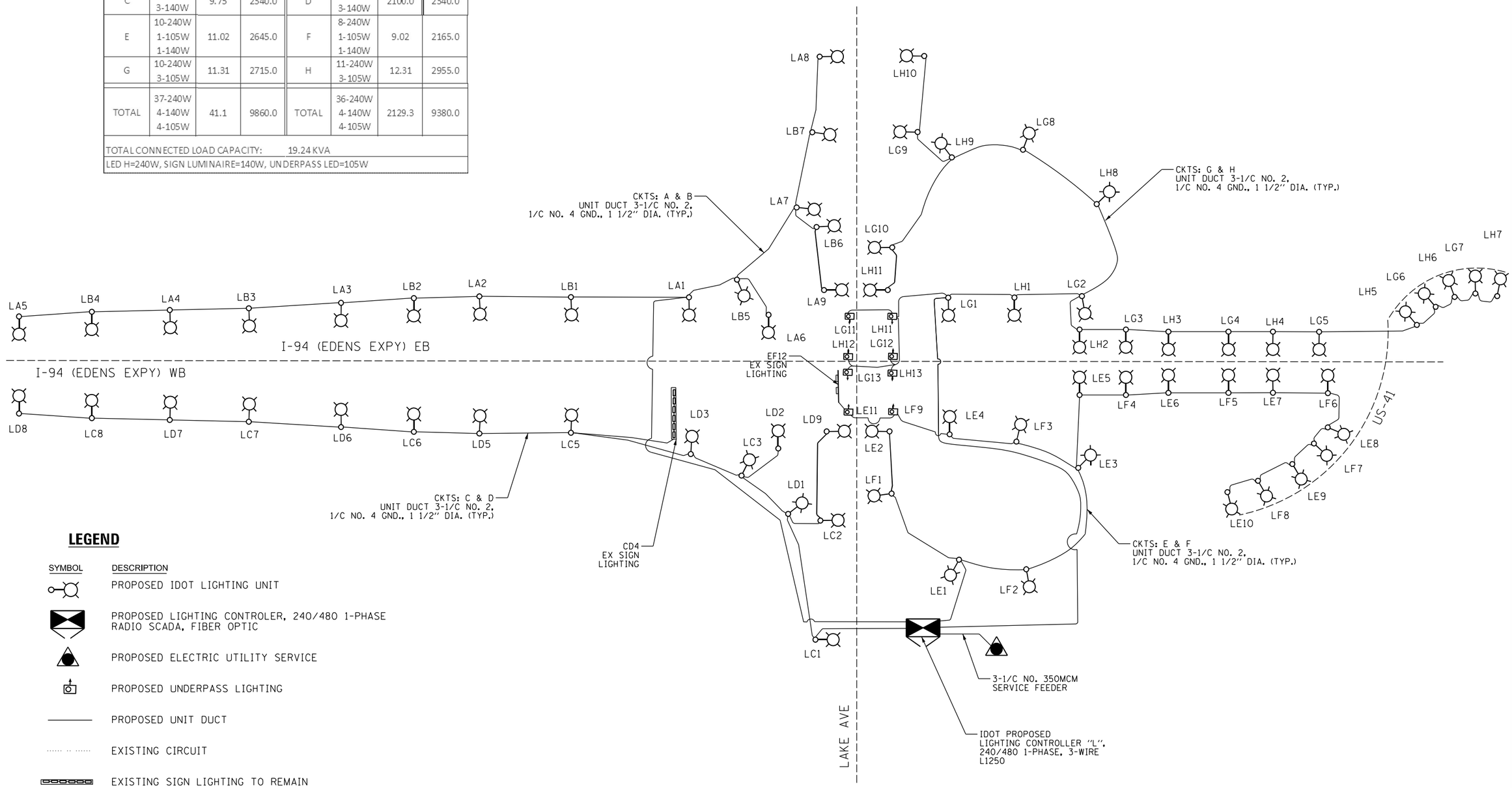
LT–24

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	USER NAME = OGORMAN	DESIGNED - VN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I–94 /US 41 SMART HIGHWAY PROPOSED LIGHTING PLANS	F.A.I RTE. 94	SECTION 2016-07IL	COUNTY COOK	TOTAL SHEETS 84 / SHEET NO. 51
		DRAWN - VN	REVISED -					CONTRACT NO. 62D82	
	PLOT SCALE =	CHECKED - RP/MG	REVISED -						
	PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -		SCALE: 1" = 50' SHEET 24 OF 30 SHEETS STA. 735+00 TO STA. 750+00		ILLINOIS FED. AID PROJECT		

pw:\\Projects\eseAMER.jacobs.com\Natl\Documents\C9X20600_I-94_US_41\C9X20600\700cadd\703elec\Lighting Plans (50 Scale)\62D82 HMLT replacement\D162082-1-ahx-light-24.dgn

N.T.S.

LOAD TABLE							
LIGHTING CONTROLLER 'L', 240/480V, 1-Φ, 3-WIRE							
RED PHASE	NO. LUM. *	AMPS	WATTS	BLACK PHASE	NO. LUM. *	AMPS	WATTS
A	9-240W	9.00	2160.0	B	8-240W	8.00	1920.0
C	8-240W 3-140W	9.75	2340.0	D	8-240W 3-140W	2100.0	2340.0
E	10-240W 1-105W 1-140W	11.02	2645.0	F	8-240W 1-105W 1-140W	9.02	2165.0
G	10-240W 3-105W	11.31	2715.0	H	11-240W 3-105W	12.31	2955.0
TOTAL	37-240W 4-140W 4-105W	41.1	9860.0	TOTAL	36-240W 4-140W 4-105W	2129.3	9380.0
TOTAL CONNECTED LOAD CAPACITY: 19.24 KVA							
LED H=240W, SIGN LUMINAIRE=140W, UNDERPASS LED=105W							



LEGEND

SYMBOL	DESCRIPTION
	PROPOSED IDOT LIGHTING UNIT
	PROPOSED LIGHTING CONTROLER, 240/480 1-PHASE RADIO SCADA, FIBER OPTIC
	PROPOSED ELECTRIC UTILITY SERVICE
	PROPOSED UNDERPASS LIGHTING
	PROPOSED UNIT DUCT
	EXISTING CIRCUIT
	EXISTING SIGN LIGHTING TO REMAIN

LT–25

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -

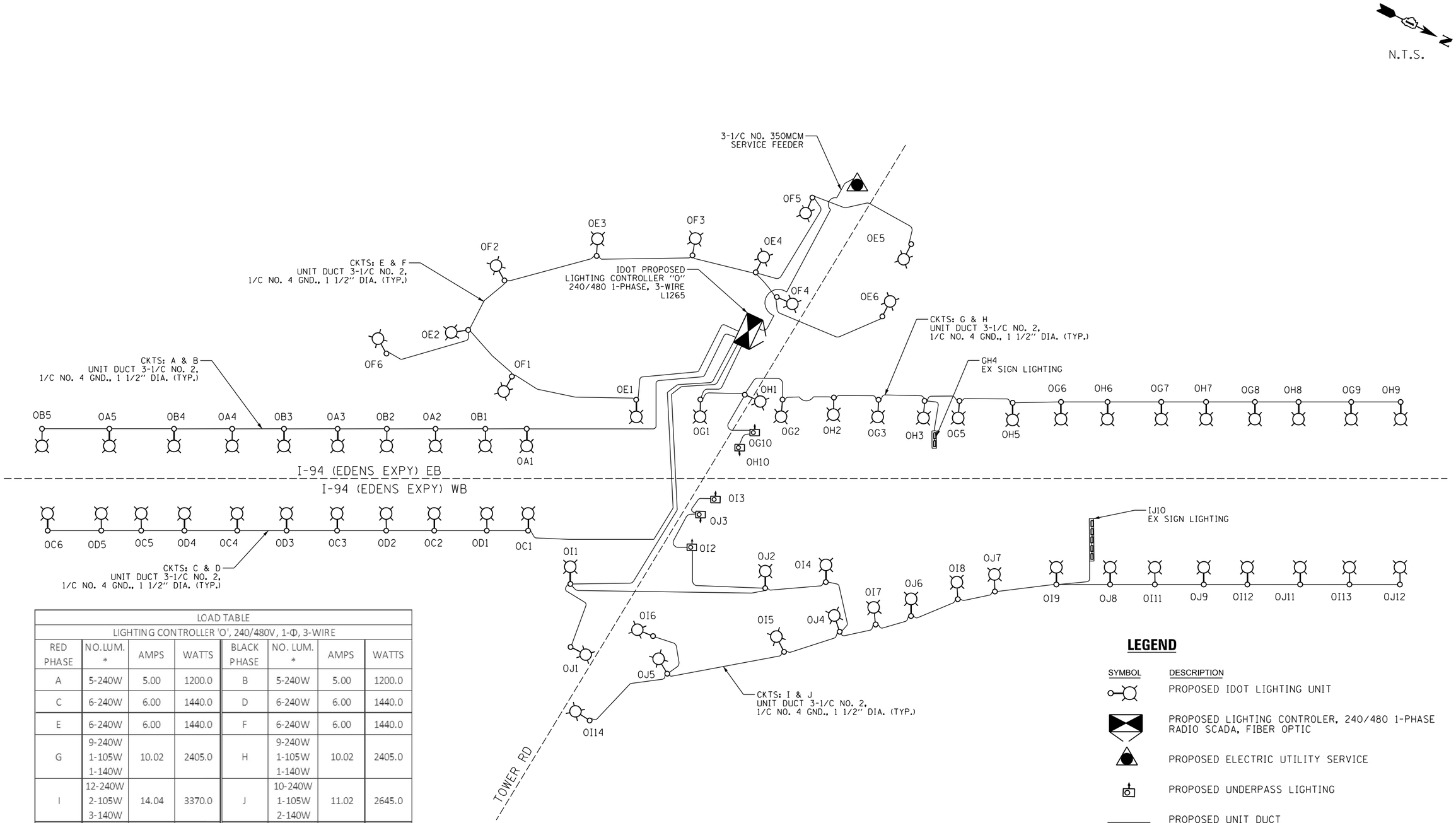
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–94 /US 41 SMART HIGHWAY
PROPOSED LIGHTING SCHEMATIC – CONTROLLER L

SCALE: NTS SHEET 25 OF 30 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-071L	COOK	84	52
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

pw:\\Projectwise\MER.jacobs.com\MA1\Documents\C9X20620_I-94_US_41\C9X20620\700cadd\703elect\Lighting Plans (58 Scale\62D82 HMLT replacement\D162082-1-ahx-light-25.dgn



LOAD TABLE							
LIGHTING CONTROLLER 'O', 240/480V, 1-Φ, 3-WIRE							
RED PHASE	NO.LUM. *	AMPS	WATTS	BLACK PHASE	NO. LUM. *	AMPS	WATTS
A	5-240W	5.00	1200.0	B	5-240W	5.00	1200.0
C	6-240W	6.00	1440.0	D	6-240W	6.00	1440.0
E	6-240W	6.00	1440.0	F	6-240W	6.00	1440.0
G	9-240W 1-105W 1-140W	10.02	2405.0	H	9-240W 1-105W 1-140W	10.02	2405.0
I	12-240W 2-105W 3-140W	14.04	3370.0	J	10-240W 1-105W 2-140W	11.02	2645.0
TOTAL	37-240W 1-140W 3-105W	41.1	9855.0	TOTAL	36-240W 1-140W 2-105W	38.0	9130.0
TOTAL CONNECTED LOAD CAPACITY: 18.99 KVA							
LED H=240W, SIGN LUMINAIRE=140W, UNDERPASS LED=105W							

LEGEND

SYMBOL	DESCRIPTION
	PROPOSED IDOT LIGHTING UNIT
	PROPOSED LIGHTING CONTROLER, 240/480 1-PHASE RADIO SCADA, FIBER OPTIC
	PROPOSED ELECTRIC UTILITY SERVICE
	PROPOSED UNDERPASS LIGHTING
	PROPOSED UNIT DUCT
	EXISTING CIRCUIT
	EXISTING SIGN LIGHTING TO REMAIN

LT–26

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–94 /US 41 SMART HIGHWAY
PROPOSED LIGHTING SCHEMATIC – CONTROLLER O

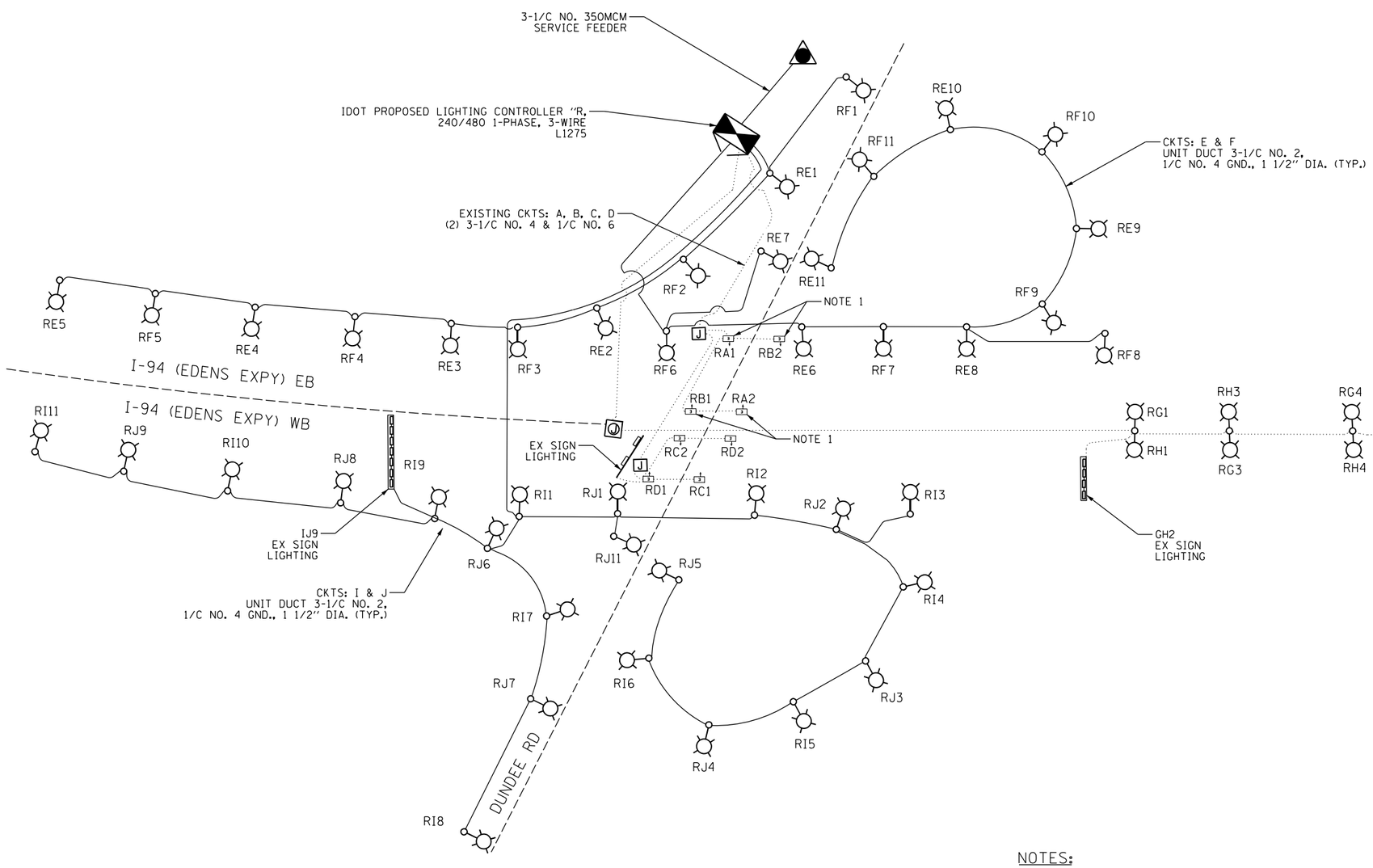
SCALE: NTS SHEET 26 OF 30 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-071L	COOK	84	53
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

pw:\\Projects\WaseaMER.jacobs.com\NA\Documents\C9X206600_I-94_US_41\C9X206600\700cadd\703select\Lighting Plans (50 Scale)\62D82 HMLT replacement\D1620B2-I-ahc-light-26.dgn

N.T.S.

LOAD TABLE							
LIGHTING CONTROLLER 'R', 240/480V, 1-Φ, 3-WIRE							
RED PHASE	NO. LUM. *	AMPS	WATTS	BLACK PHASE	NO. LUM. *	AMPS	WATTS
A	2-105W	0.88	210.0	B	2-105W	0.88	210.0
C	2-105W 1-140W	1.46	350.0	D	2-105W 1-140W	1.46	350.0
E	11-240W	11.00	2640.0	F	11-240W	11.00	2640.0
G	8-240W 2-140W	9.17	2200.0	H	8-240W 2-140W	9.17	2200.0
I	10-240W 3-140W	11.75	2820.0	J	10-240W 4-140W	12.33	2960.0
TOTAL	29-240W 5-140W 4-105W	34.3	8220.0	TOTAL	29-240W 6-140W 4-105W	34.8	8360.0
TOTAL CONNECTED LOAD CAPACITY: 16.58 KVA							
LED H=240W, SIGN LUMINAIRE=140W, UNDERPASS LED=105W							



LEGEND

SYMBOL	DESCRIPTION
	PROPOSED IDOT LIGHTING UNIT
	EXISTING POLE WITH PROPOSED DUAL MAST ARMS AND LED LUMINAIRES
	PROPOSED LIGHTING CONTROLER, 240/480 1-PHASE RADIO SCADA, FIBER OPTIC
	PROPOSED ELECTRIC UTILITY SERVICE
	EXISTING UNDERPASS LIGHTING
	PROPOSED UNIT DUCT
	EXISTING CIRCUIT
	EXISTING SIGN LIGHTING TO REMAIN

NOTES:

1. REMOVE AND REPLACE IDENTIFICATION DECAL.

LT–27

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

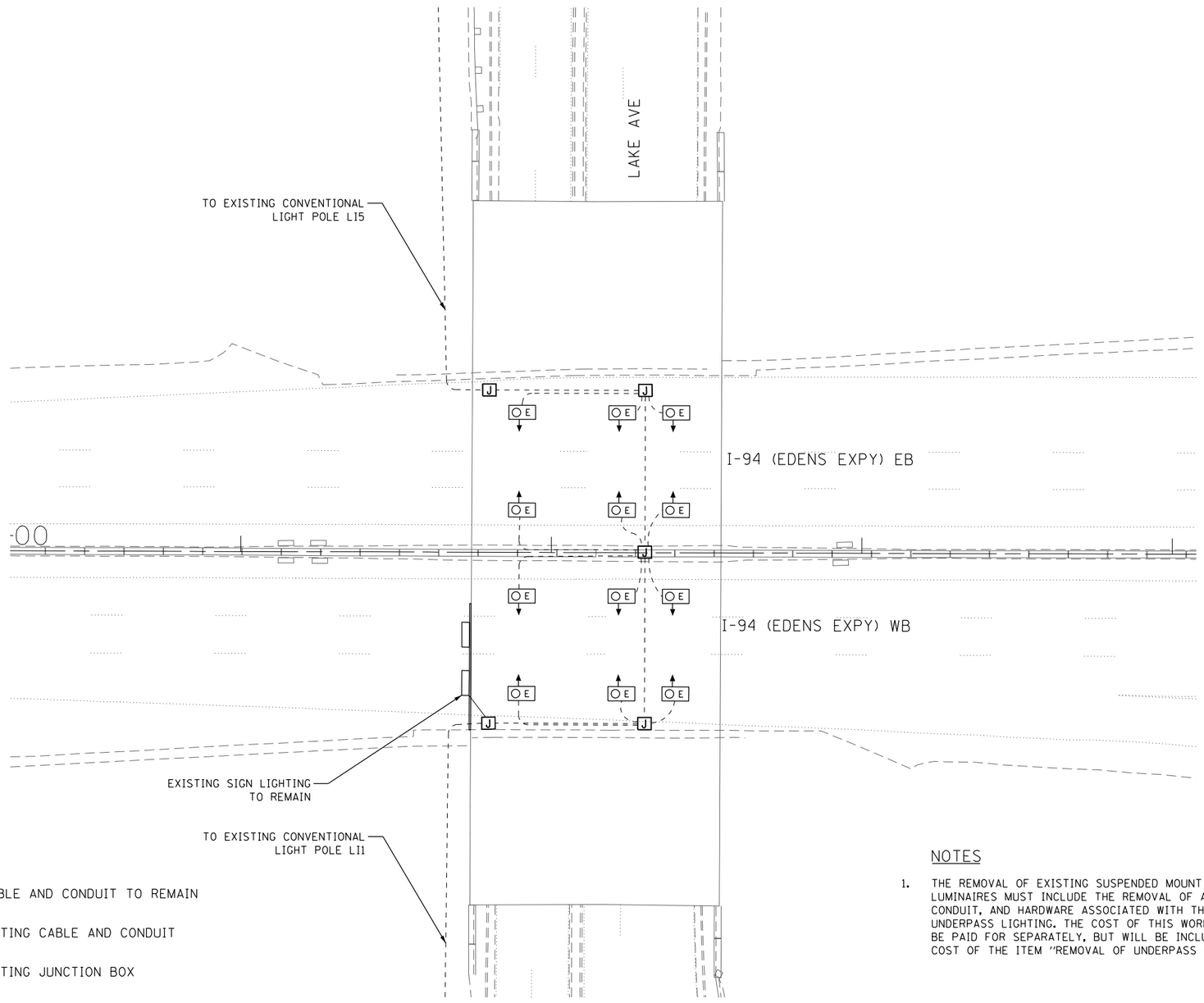
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-94 /US 41 SMART HIGHWAY
PROPOSED LIGHTING SCHEMATIC – CONTROLLER R

SCALE: NTS SHEET 27 OF 30 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-071L	COOK	84	54
		CONTRACT NO. 62D82		
	ILLINOIS FED. AID PROJECT			

pw:\\Projectwise\MER_jacobs.com\MA1\Documents\C9X20600_I-94_US_41\C9X206000\700cadd\703elec\Lighting Plans (50 Scale)\62D82 HMLT replacement\D162082-1-ahx-light-27.dgn



20 0 10 20 30
SCALE IN FEET

LEGEND:

EXISTING CABLE AND CONDUIT TO REMAIN

REMOVE EXISTING CABLE AND CONDUIT

J R REMOVE EXISTING JUNCTION BOX

E R REMOVE EXISTING UNDERPASS LIGHTING FIXTURE

NOTES

1. THE REMOVAL OF EXISTING SUSPENDED MOUNT UNDERPASS LUMINAIRES MUST INCLUDE THE REMOVAL OF ALL CABLES, CONDUIT, AND HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF THE ITEM "REMOVAL OF UNDERPASS LIGHTING UNIT, NO SALVAGE."

LT–28

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

UNDERPASS LIGHTING REMOVAL PLAN
I–94 AT LAKE AVENUE

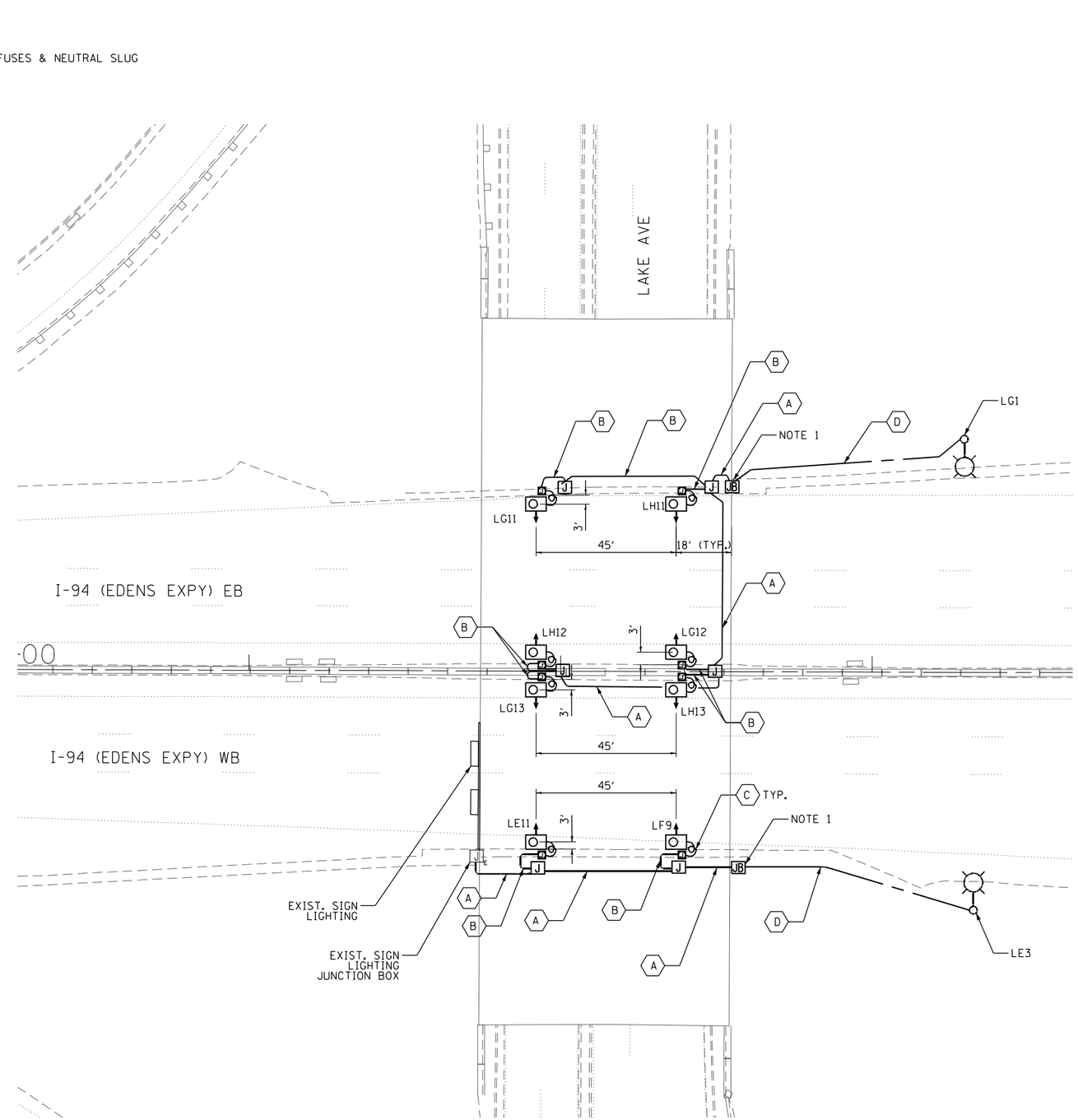
SCALE: 1" = 20' SHEET 28 OF 30 SHEETS STA. TO STA.

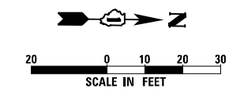
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-07IL	COOK	84	55
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

pw:\\Projectwise\AMER_jacobs.com\NA1\Documents\C9X208608_I-94_US_41\C9X208608\700cadd\703elec\Lighting Plans (50 Scale)\62D82 HMLT replacement\D162D82-1-sht-light-28.dgn

NOTES

1. INSTALL FUSEHOLDER WITH 30 AMP FUSES & NEUTRAL SLUG INSIDE THE JUNCTION BOX.





LEGEND

- (A) 3-1/C NO.10 AND 1/C NO.10 GND IN 1" PVCC RGC
- (B) 2-1/C NO.10 AND 1/C NO.10 GND IN 1"PVCC RGC
- (C) 2-1/C NO.10 AND 1-1/C NO.10 GND IN 3/4" LIQUID-TIGHT FLEXIBLE CONDUIT
- (D) UNIT DUCT, 600V, 3-1/C NO. 2 1/C NO. 4, GND 1 1/2" DIA. (TYP)
- LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION E (14.5-FT M.H.)
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6"X6"X4"
- [J] JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"
- [JB] JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"
- [J]E EXISTING JUNCTION BOX

LT–29

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

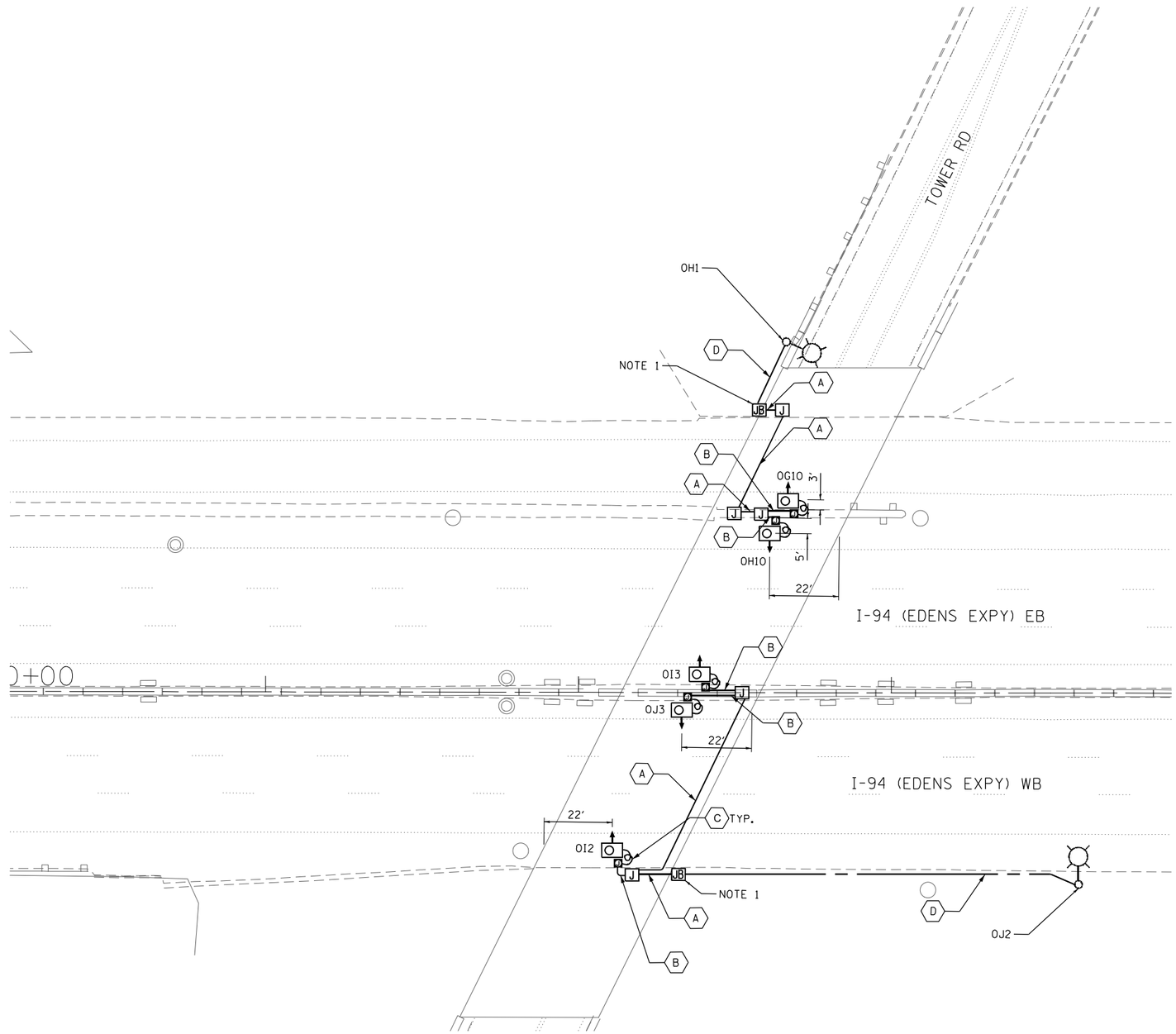
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

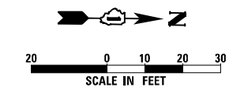
PROPOSED UNDERPASS LIGHTING INSTALLATION PLAN
I–94 AT LAKE AVENUE

SCALE: 1" = 20' SHEET 29 OF 30 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-071L	COOK	84	56
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

pw:\\ProjectWiseNWER_jacobs.com\NA\Documents\C9X20600.I-94_U.S. 41\C9X20600\700cadd\703select\Lighting Plans (50 Scale)\62D82 HMLT replacement\D162D82-I-sht-light-29.dgn





NOTES

1. INSTALL FUSEHOLDER WITH 30 AMP FUSES & NEUTRAL SLUG INSIDE THE JUNCTION BOX.

LEGEND

- (A) 3-1/C NO.10 AND 1/C NO.10 GND IN 1" PVCC RGC
- (B) 2-1/C NO.10 AND 1/C NO.10 GND IN 1"PVCC RGC
- (C) 2-1/C NO.10 AND 1-1/C NO.10 GND IN 3/4" LIQUID-TIGHT FLEXIBLE CONDUIT
- (D) UNIT DUCT, 600V, 3-1/C NO. 2 1/C NO. 4, GND 1 1/2" DIA. (TYP)
- LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION E (14.5-FT M.H.)
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6"X6"X4"
- J JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"
- JB JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"

LT–30

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED UNDERPASS LIGHTING INSTALLATION PLAN
I–94 AT TOWER ROAD

SCALE: 1" = 20' SHEET 30 OF 30 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-071L	COOK	84	57
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

pw:\\Projects\Wse\MER.jacobs.com\NA1\Documents\C9X20600_I-94_US_41\C9X206000\700cadd\703select\Lighting Plans (50 Scale)\62D82 HMLT replacement\D162082-1-sht-light-30.dgn

NOTES:

1. ALL EXISTING JUNCTION BOXES AND APPURTENANCES ARE ILLUSTRATED DIAGRAMMATICALLY. THE LOCATION SHALL BE FIELD VERIFIED AND SHALL MEET WITH THE APPROVAL OF THE ENGINEER.
2. THE UNDERPASS LED LUMINAIRE MOUNTING HEIGHT SHALL BE 16'-0" MINIMUM TO GRADE.
3. 6"X6"X4" STAINLESS STEEL JUNCTION BOXES SHALL BE INSTALLED PER DI STANDARD DETAIL BE-902.
4. THE CONTRACTOR SHALL INTERCEPT EXISTING UNDERGROUND CONDUIT WITH NEW 3" DIA. PVC COATED GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE. USE CONDUIT TRANSITION COUPLING. REINSTALL EXISTING ELECTRIC CABLE IN CONDUIT.
5. THE CONTRACTOR SHALL INTERCEPT EXISTING UNDERGROUND CONDUIT WITH NEW 3" DIA. PVC COATED GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE. USE CONDUIT TRANSITION COUPLING. INSTALL NEW ELECTRIC CABLE IN CONDUIT.
6. NEW CONDUIT INSTALLATION SHALL MATCH EXISTING ROUTE.
7. PROVIDE TWO (2) 30A, 600 VOLT FUSE KIT THIS WORK SHALL BE INCIDENTAL TO THE COST OF THE JUNCTION BOX. NO SEPARATE PAYMENT WILL BE MADE.

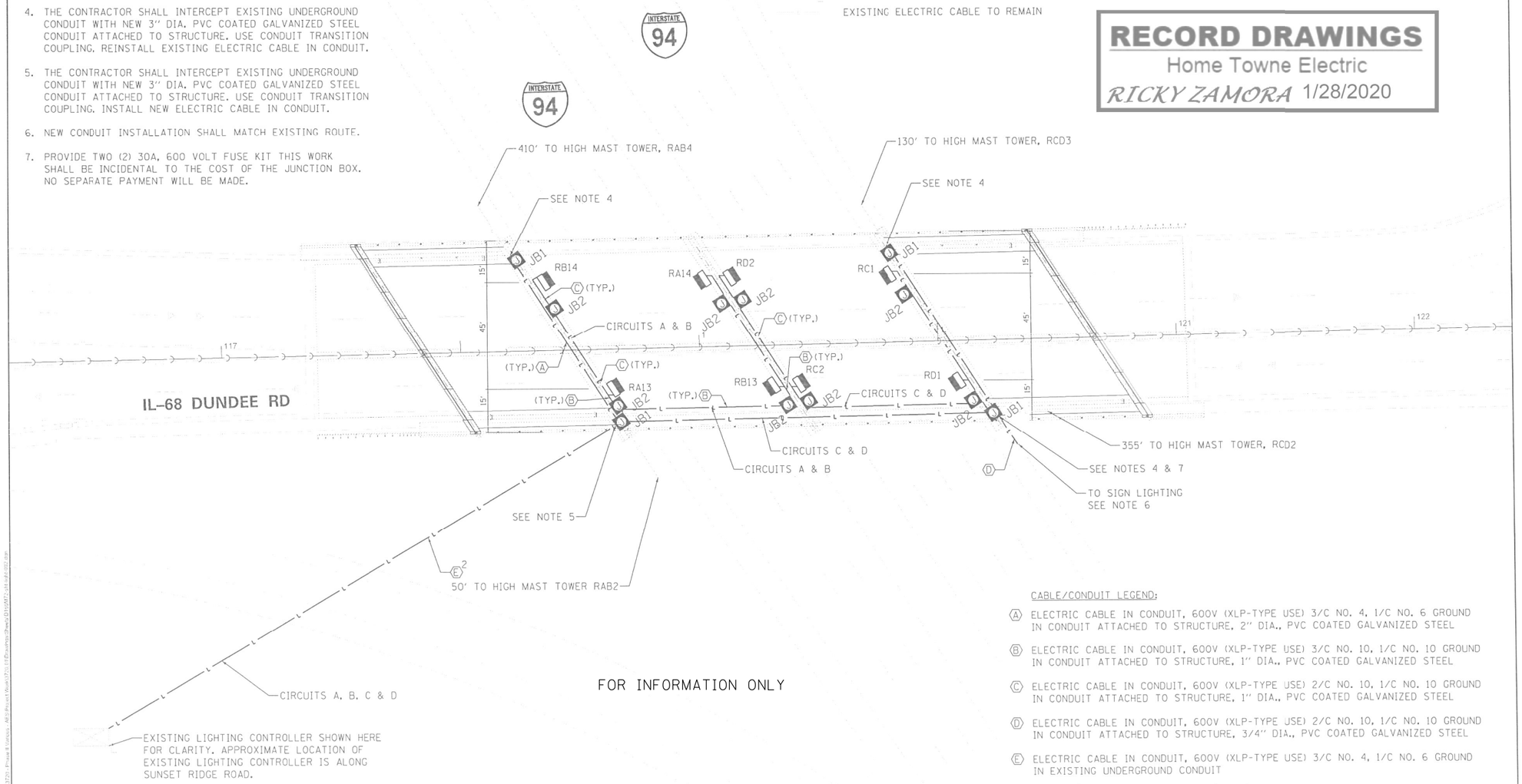
LEGEND:

- PROPOSED UNDERPASS LUMINAIRE, LED, 240V
- JB1 — JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18"X18"X8"
- JB2 — JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6"X6"X4"
- PROPOSED UNIT DUCT OR CABLE, AS NOTED ON PLANS
- EXISTING LIGHTING CONTROLLER TO REMAIN
- EXISTING ELECTRIC CABLE TO REMAIN

N

0 20 40 80
SCALE IN FEET

RECORD DRAWINGS
Home Towne Electric
RICKY ZAMORA 1/28/2020



FOR INFORMATION ONLY

CABLE/CONDUIT LEGEND:

(A) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3/C NO. 4, 1/C NO. 6 GROUND IN CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL

(B) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3/C NO. 10, 1/C NO. 10 GROUND IN CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL

(C) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 2/C NO. 10, 1/C NO. 10 GROUND IN CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL

(D) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 2/C NO. 10, 1/C NO. 10 GROUND IN CONDUIT ATTACHED TO STRUCTURE, 3/4" DIA., PVC COATED GALVANIZED STEEL

(E) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3/C NO. 4, 1/C NO. 6 GROUND IN EXISTING UNDERGROUND CONDUIT

TranSmart/EJM 411 South Wells Street Suite 1000 Chicago, Illinois 60607	USER NAME = M.Ecklen	DESIGNED - MRT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE REPAIRS AT IL 68 (DUNDEE RD) OVER I-94 PROPOSED UNDERPASS LIGHTING PLAN	F.A.I RTE. 94	SECTION 1314.1-1	COUNTY COOK	TOTAL SHEETS 70 / SHEET NO. 30
		DRAWN - MRT	REVISED -					CONTRACT NO. 60M72	
	PLOT SCALE = 20.0000 '/in.	CHECKED - MKR	REVISED -					ILLINOIS	FED. AID PROJECT
	PLOT DATE = 12/14/2018	DATE - 08/17/2018	REVISED -		SCALE: 1" = 20' SHEET 4 OF 11 SHEETS STA. TO STA.				

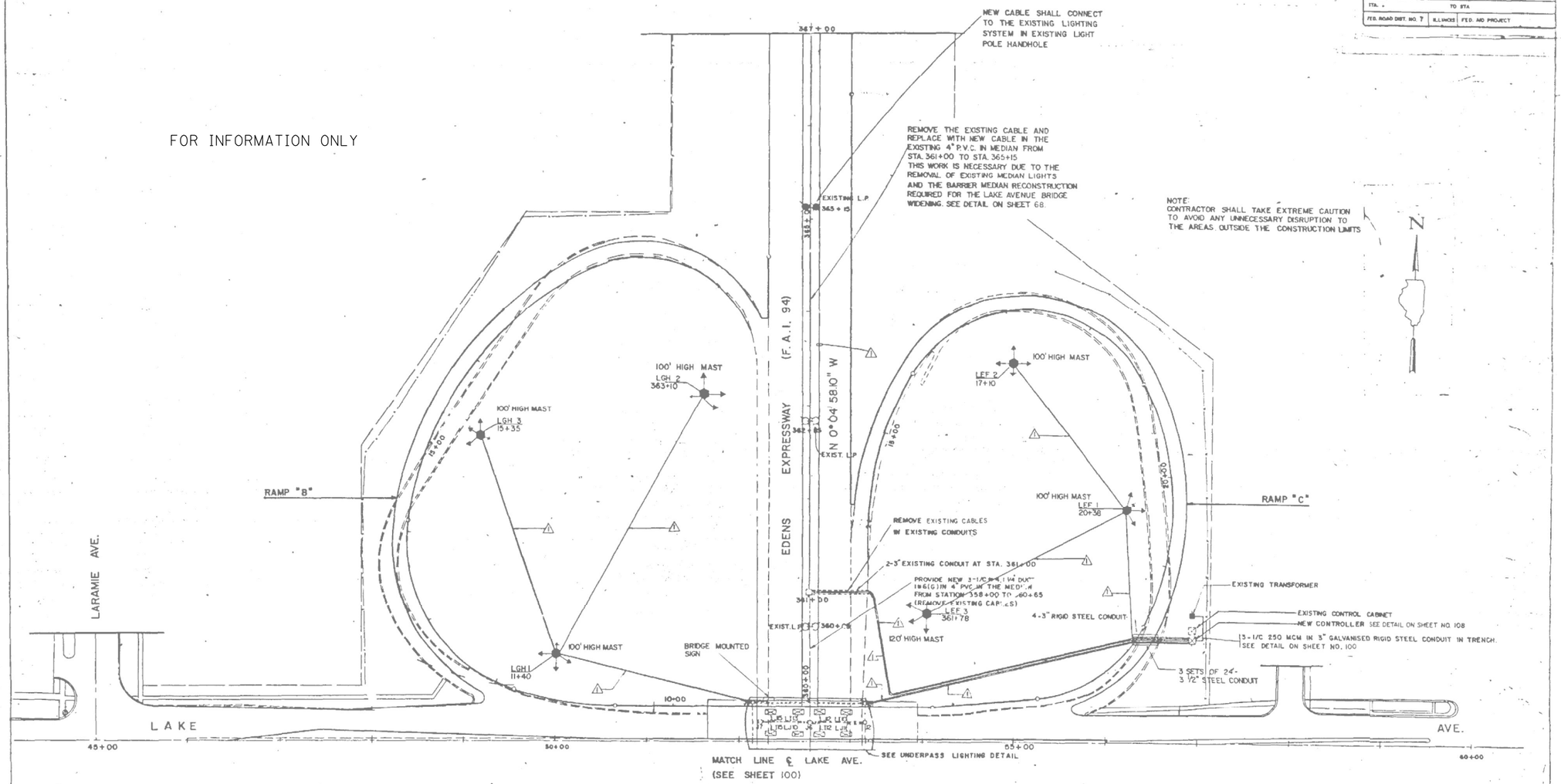
LT-31

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	USER NAME = OGORMAN	DESIGNED - VN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	UNDERPASS LIGHTING AS-BUILT INFORMATION	F.A.I RTE. 94	SECTION 2016-071L	COUNTY COOK	TOTAL SHEETS 84 / SHEET NO. 58
		DRAWN - VN	REVISED -					CONTRACT NO. 62D82	
	PLOT SCALE =	CHECKED - RP/MG	REVISED -					ILLINOIS FED. AID PROJECT	
	PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -		SCALE: NTS SHEET 1 OF 10 SHEETS STA. TO STA.				

PLOT TIME = 2:52:59 PM
PLOT DATE = 6/23/2023 PLOT SCALE =
FILE NAME = pw:\\Projects\Wsa\MER_jacobs.com\Mdl\Documents\C9X20600.I-94.US.41\C9X920600\700cadd\703elect\Lighting Plans (50 Scale)\62D82 HMLT replacement\D162D82-1-sht-light-31.dgn

F.A.I. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	0809 (R-85)	COOK	136	99
STA.		TO STA.		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY



NOTE:
FOR EXISTING TOPOGRAPHY, SEE SHEET NO. 25
FOR EXISTING UTILITIES, SEE SHEET NO. 60
FOR EXISTING & PROPOSED STORM SEWER, SEE SHEET NO. 38

SYMBOL	LEGEND
—x—x—	EXISTING FENCE
	R.O.W.
	PROPOSED ELECTRICAL CABLE IN CONDUIT ATTACHED TO THE STRUCTURE
	PROPOSED ELECTRICAL CABLE IN CONDUIT IN TRENCH
—6—	EXISTING ELECTRICAL CABLE TO REMAIN
	PROPOSED ELECTRICAL CABLE IN EXISTING 4" P.V.C IN MEDIAN
	GALVANISED STEEL CONDUIT IN TRENCH
	PROPOSED ELECTRICAL CABLE IN DUCT IN EXISTING CONDUIT
	PROPOSED ELECTRICAL CABLE IN DUCT IN TRENCH
	PROPOSED 47.5' M.H. LIGHTING UNIT

SYMBOL	LEGEND
	PROPOSED HIGH MAST LIGHTING
	EXISTING LIGHT POLE & LUMINAIRE TO BE REMOVED
	EXISTING LIGHT POLE & LUMINAIRE TO REMAIN
	3-1/C #4 AWG IN 1 1/4" DUCT, 1 #6 (G)
	3-1/C #10 AWG IN 1" CONDUIT, 1 #6 (G)
	PROPOSED UNDERPASS LIGHTS
	GROUND ROD
	EXISTING CONTROL CABINET
	NEW CONTROL CABINET
JI	JUNCTION BOX
	EXISTING HANDHOLE
	EDISON SERVICE LOCATION

50 0 50
Scale 1" = 50'-0"

GUPTA ASSOCIATES INC.
2715 W. PETERSON AVE.
CHICAGO, ILLINOIS 60659

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EDENS EXPRESSWAY
LAKE AVE INTERCHANGE
LIGHTING PLAN - I

SCALE 1" = 50'
DATE 12-2-85
DRAWN BY - H.R.
CHECKED BY - T.T.

LT-32

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONTROLLER L AS-BUILT INFORMATION

SCALE: NTS SHEET 2 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-07IL	COOK	84	59
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

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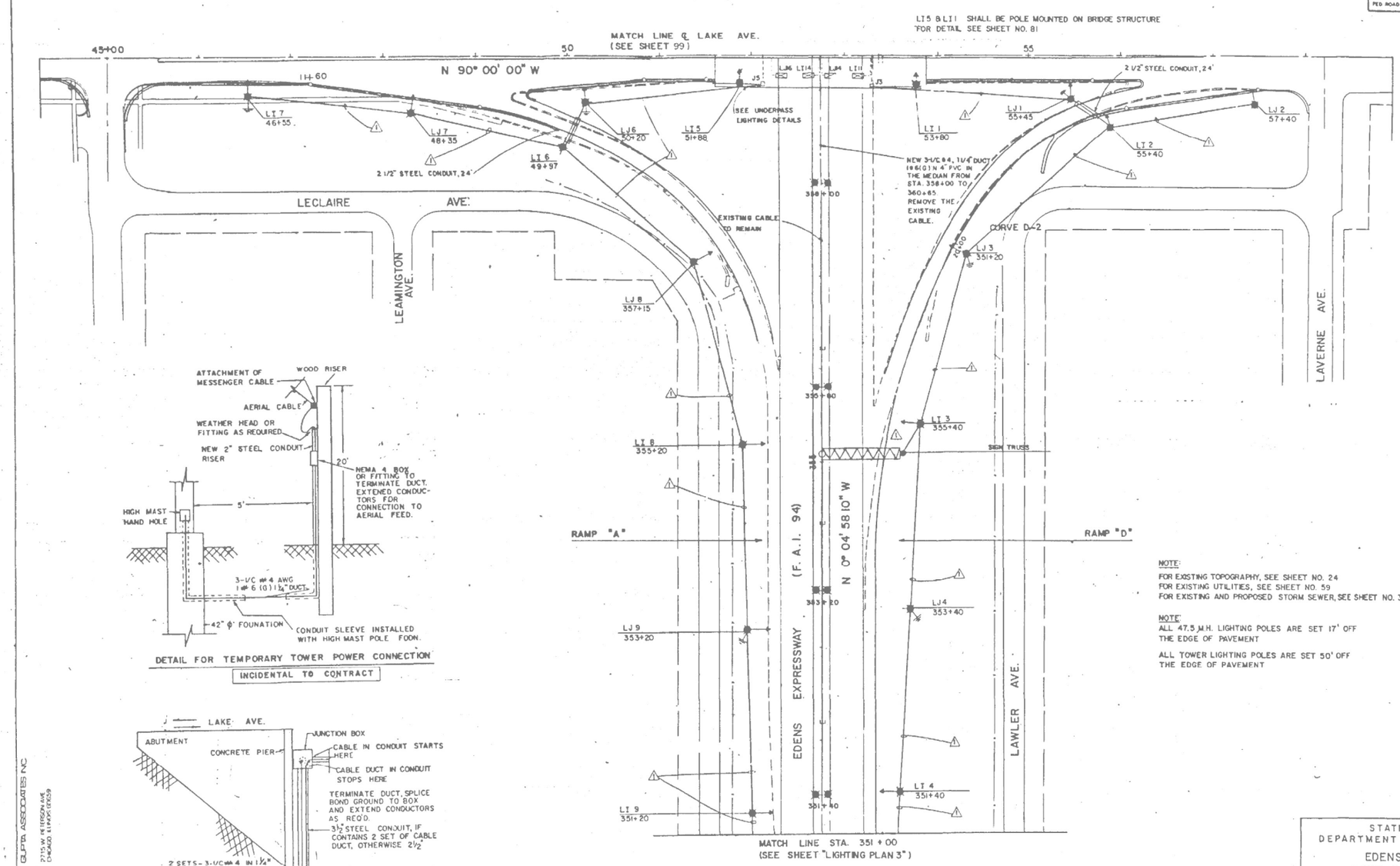
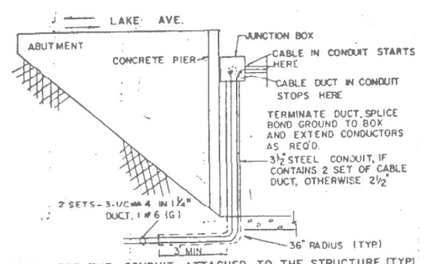
FOR INFORMATION ONLY

F.A.I. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	D809IR-65	COOK	134	100
STA.		TO STA.		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



DETAIL FOR TEMPORARY TOWER POWER CONNECTION

INCIDENTAL TO CONTRACT



DETAIL FOR THE CONDUIT ATTACHED TO THE STRUCTURE (TYP)

GUPTA ASSOCIATES INC.
2715 W PETERSON AVE
CHICAGO, ILLINOIS 60659

NOTE:
FOR EXISTING TOPOGRAPHY, SEE SHEET NO. 24
FOR EXISTING UTILITIES, SEE SHEET NO. 59
FOR EXISTING AND PROPOSED STORM SEWER, SEE SHEET NO. 37

NOTE:
ALL 47.5 M.H. LIGHTING POLES ARE SET 17' OFF THE EDGE OF PAVEMENT

ALL TOWER LIGHTING POLES ARE SET 50' OFF THE EDGE OF PAVEMENT

50 0 50
Scale 1" = 50'-0"

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
EDENS EXPRESSWAY
LAKE AVE INTERCHANGE
LIGHTING PLAN - 2

SCALE 1"=50' DRAWN BY- H.

LT-33

SINGH
SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONTROLLER L AS-BUILT INFORMATION

SCALE: NTS SHEET 3 OF 10 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-071L	COOK	84	60
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

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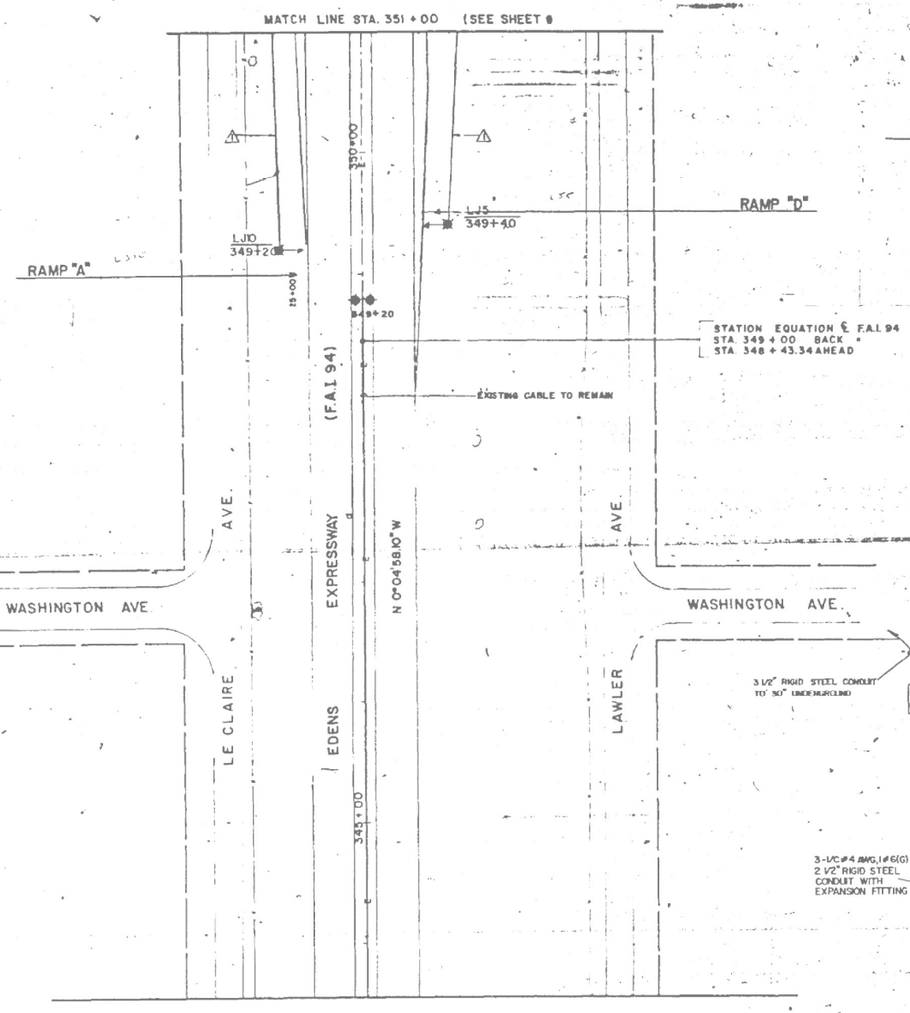
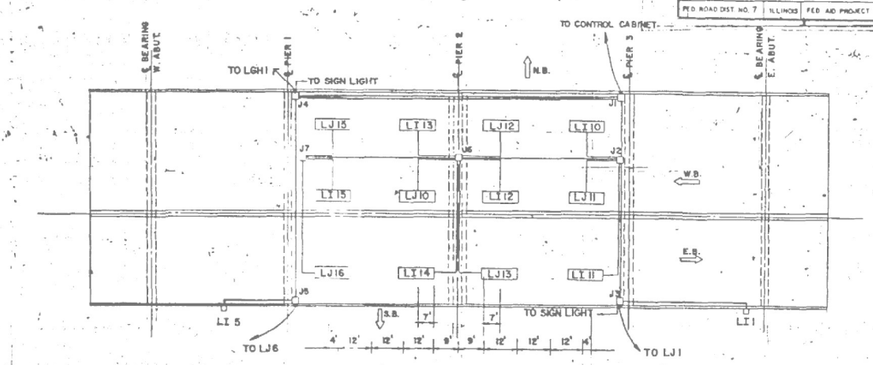
pw:\\ProjectWiseNER_jacobs.com:N01\Documents\C9X20680.I-94.U.S.41\C9X20680\708cadd\703elect\Lighting Plans (50 Scale)\62D82 HMLT replacement\D162D82-1-sht-light-33.dgn

F.A.I. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	0809(R-85)	COOK	159	101
STA.		TO STA.		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

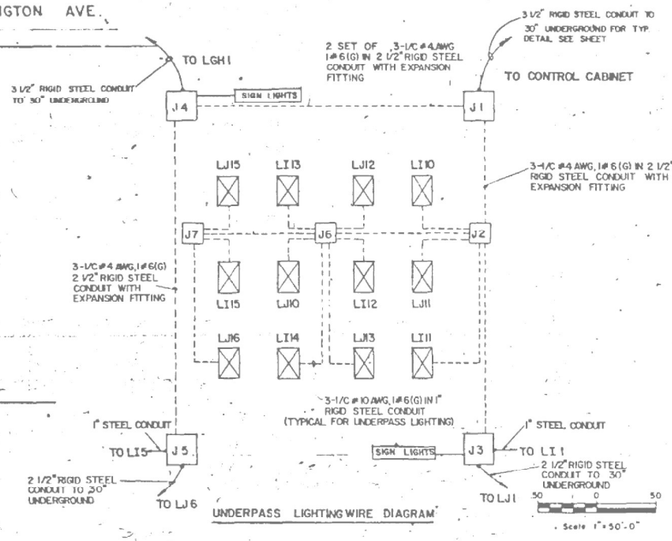
FOR INFORMATION ONLY





UNDERPASS LIGHTING LOCATION

JUNCTION BOX SCHEDULE	
J. B.	SIZE
J1, J2, J4, J6	20" x 18" x 10" (TYPICAL)
J3, J5, J7	12" x 12" x 6" (TYPICAL)



UNDERPASS LIGHTING WIRE DIAGRAM

NOTE:
FOR EXISTING TOPOGRAPHY, SEE SHEET NO. 23
FOR EXISTING UTILITIES, SEE SHEET NO 59
FOR EXISTING AND PROPOSED STORM SEWER, SEE SHEET NO. 36

GUPTA ASSOCIATES INC
2715 W. PETERSON AVE
CHICAGO, ILLINOIS 60659

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EDENS EXPRESSWAY /
LAKE AVE INTERCHANGE ;
LIGHTING PLAN 3

SCALE 1"=50'
DATE 12-2-85
DRAWN BY S.P
CHECKED BY T.T

LT-34

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONTROLLER L AS-BUILT INFORMATION

SCALE: NTS SHEET 4 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-07IL	COOK	84	61
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

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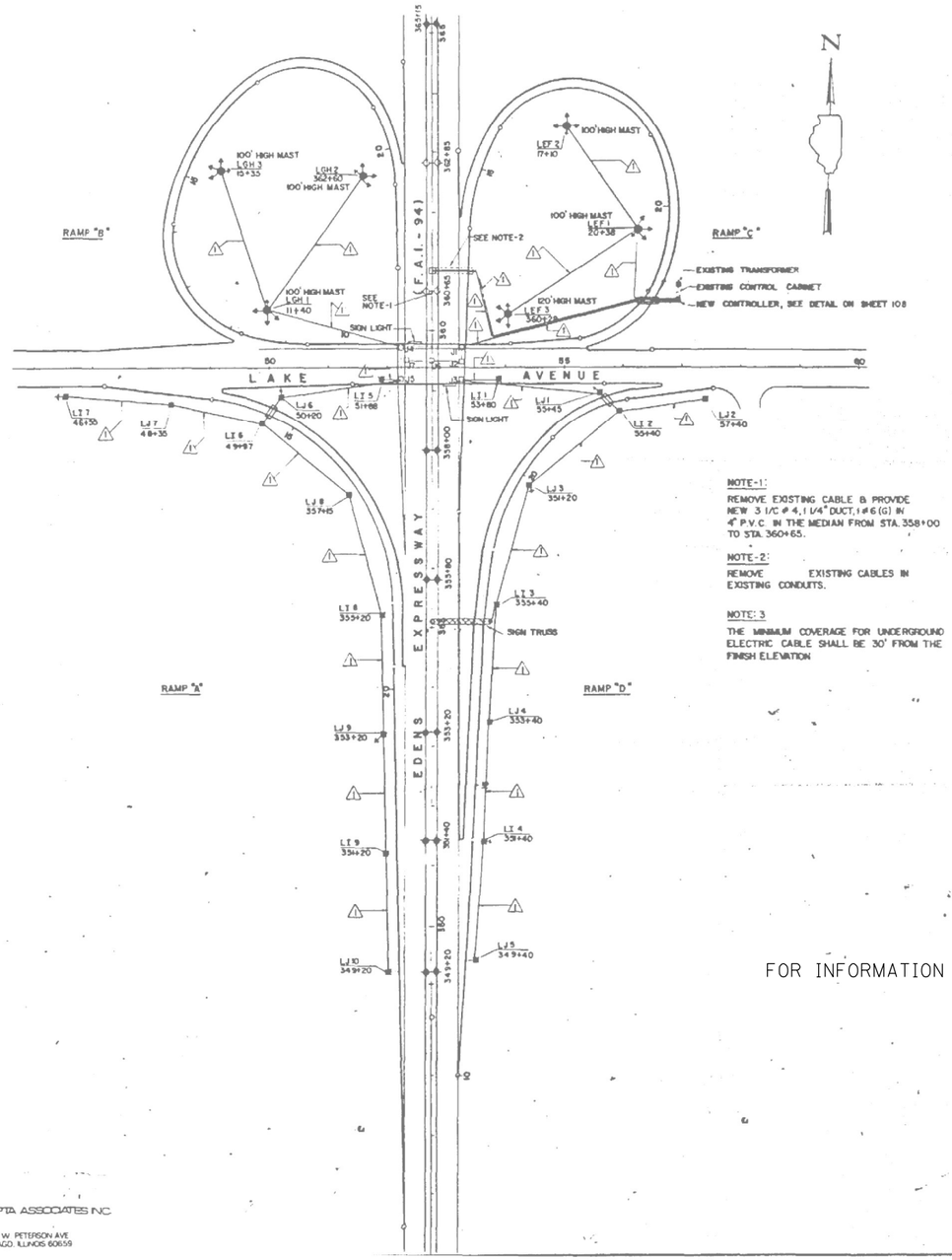
F.A.I. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	0809(R-B5)	COOK	154	102
STA.		TO STA.		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

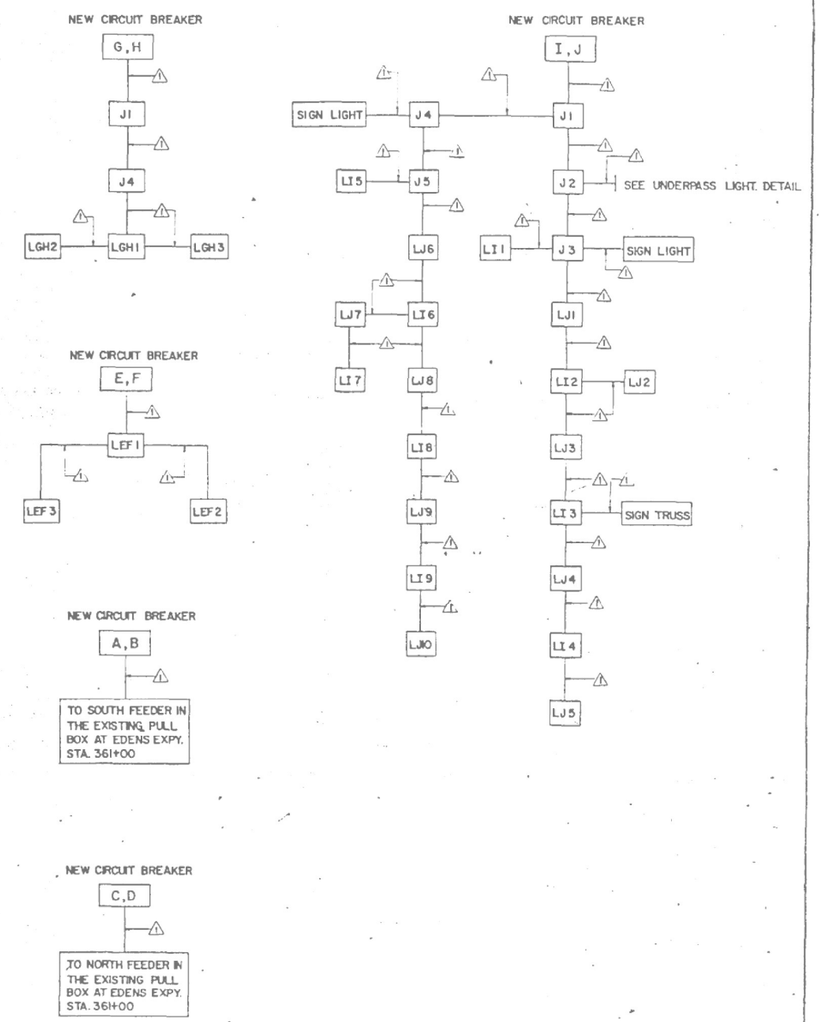


NOTE-1:
REMOVE EXISTING CABLE & PROVIDE NEW 3 1/C #4, 1 1/4" DUCT, 1 #6 (G) IN 4" P.V.C. IN THE MEDIAN FROM STA. 358+00 TO STA. 360+65.

NOTE-2:
REMOVE EXISTING CABLES IN EXISTING CONDUITS.

NOTE: 3
THE MINIMUM COVERAGE FOR UNDERGROUND ELECTRIC CABLE SHALL BE 30" FROM THE FINISH ELEVATION

FOR INFORMATION ONLY



GUPTA ASSOCIATES INC
2715 W. PETERSON AVE.
CHICAGO, ILLINOIS 60659

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EDENS EXPRESSWAY AND
LAKE AVENUE INTERCHANGE

WIRING DIAGRAM

SCALE: 1"=100'
DATE:
DRAWN BY: S.K.
CHECKED BY: T.T.

LT–35

PLOT TIME = 2:54:36 PM
PLOT DATE = 6/23/2023 PLOT SCALE =
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SINGH
SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

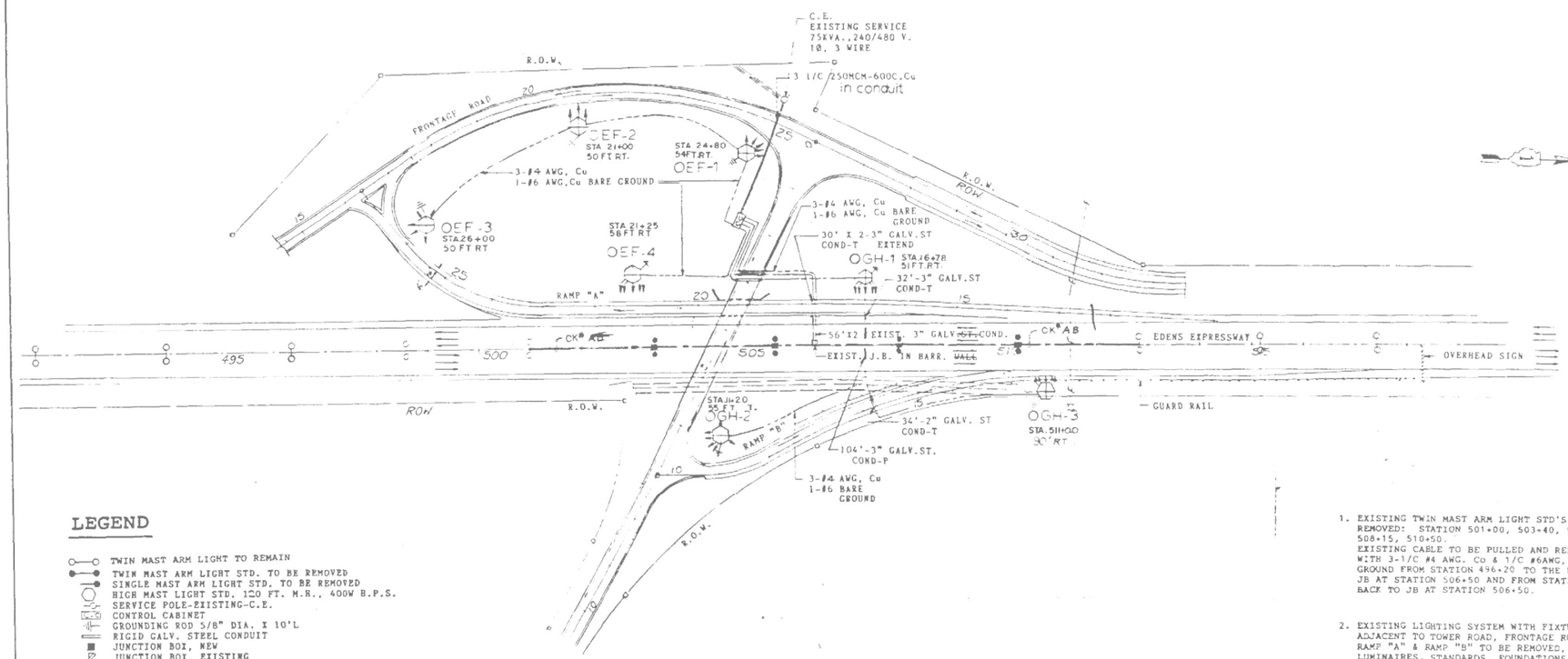
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONTROLLER L AS-BUILT INFORMATION

SCALE: NTS SHEET 5 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-071L	COOK	84	62
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2016-071L	COOK	84	63



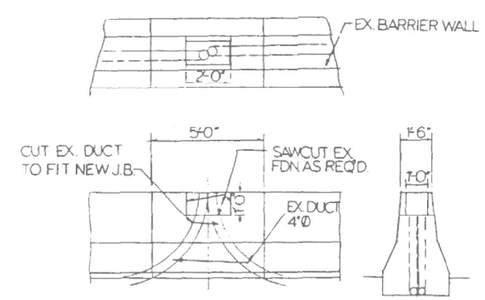
LEGEND

- TWIN MAST ARM LIGHT TO REMAIN
- TWIN MAST ARM LIGHT STD. TO BE REMOVED
- SINGLE MAST ARM LIGHT STD. TO BE REMOVED
- HIGH MAST LIGHT STD. 120 FT. M.H., 400W H.P.S.
- SERVICE POLE-EXISTING-C.E.
- CONTROL CABINET
- GROUNDING ROD 5/8" DIA. X 10'L
- RIGID GALV. STEEL CONDUIT
- JUNCTION BOX, NEW
- JUNCTION BOX, EXISTING
- OEF-3 CIRCUIT & POLE NO.
- 400W H.P.S. HIGH MAST LUMINAIRE (M.C.II)
- P - PUSHED
- T - TRENCH

LUMINAIRE DATA

400 W, HPS TYPE II M-C HIGH MAST
50,000 LUMENS, INITIAL OUTPUT
24,000 HRS. RATED LIFE

0' 100' 200' 300' 1"= 100'



TYPICAL
JUNCTION BOX EMBEDMENT
EX. BARRIER WALL FDN.

1. EXISTING TWIN MAST ARM LIGHT STD'S. TO BE REMOVED: STATION 501+00, 503+40, 505+80, 508+15, 510+50.
   EXISTING CABLE TO BE PULLED AND REPLACED WITH 3-1/C #4 AWG. Co & 1/C #6AWG, Cu BARE GROUND FROM STATION 496+20 TO THE EXISTING JB AT STATION 506+50 AND FROM STATION 512+85 BACK TO JB AT STATION 506+50.
2. EXISTING LIGHTING SYSTEM WITH FIXTURES ADJACENT TO TOWER ROAD, FRONTAGE ROAD, RAMP "A" & RAMP "B" TO BE REMOVED, INCLUDING LUMINAIRES, STANDARDS, FOUNDATIONS, CABLE & CONTROL CABINET.
3. DURING STAGE NO. 1 THE ELECTRICAL CONTRACTOR SHALL INSTALL THE PAD MOUNTED CONTROL CABINET AT STATION 2+00 TOWER ROAD @ 60 FOOT RT. AND INSTALL EQUIPMENT FROM EXISTING CONTROL CABINET TO MAINTAIN EXISTING LIGHTING DURING CONSTRUCTION. TWO (2) 45 FOOT WOOD POLES SHALL BE INSTALLED TO PROVIDE AERIAL POWER FROM EXISTING ELECTRIC SERVICE TO THE EXISTING CIRCUITS.

   DURING STAGE NO. 2 THE ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING LIGHT STDS. OE-3, OF-3, AND OE-4 TO FACILITATE TEMPORARY PAVEMENT ON RAMP "A". TEMPORARY 50 FOOT WOOD POLES WITH BRACKET ARMS AND LUMINAIRES SHOULD BE INSTALLED TO PROVIDE ROADWAY LIGHTING DURING CONSTRUCTION.
4. THE EXISTING POLES TO BE REMOVED SHALL BE USED AS TEMPORARY LIGHTING UNTIL THE PROPOSED HIGH MAST POLES ARE INSTALLED AND OPERATIONAL.

FOR INFORMATION ONLY

PREPARED BY RACKOFF - EADS
CHICAGO, ILLINOIS

ILLINOIS DEPARTMENT OF TRANSPORTATION

INTERCHANGE LIGHTING
I-94 EDENS EXPRESSWAY @
TOWER ROAD

REVISIONS	
NAME	DATE

SCALE VERT. HORZ. 1"=100'
DATE Jan 1987
DRAWN BY H.E.S.
CHECKED BY H.E.S.

LT-36

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -
	DRAWN - VN	REVISED -
PLOT SCALE =	CHECKED - RP/MG	REVISED -
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONTROLLER O AS-BUILT INFORMATION

SCALE: NTS SHEET 6 OF 10 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-071L	COOK	84	63
		CONTRACT NO. 62D82		
	ILLINOIS FED. AID PROJECT			

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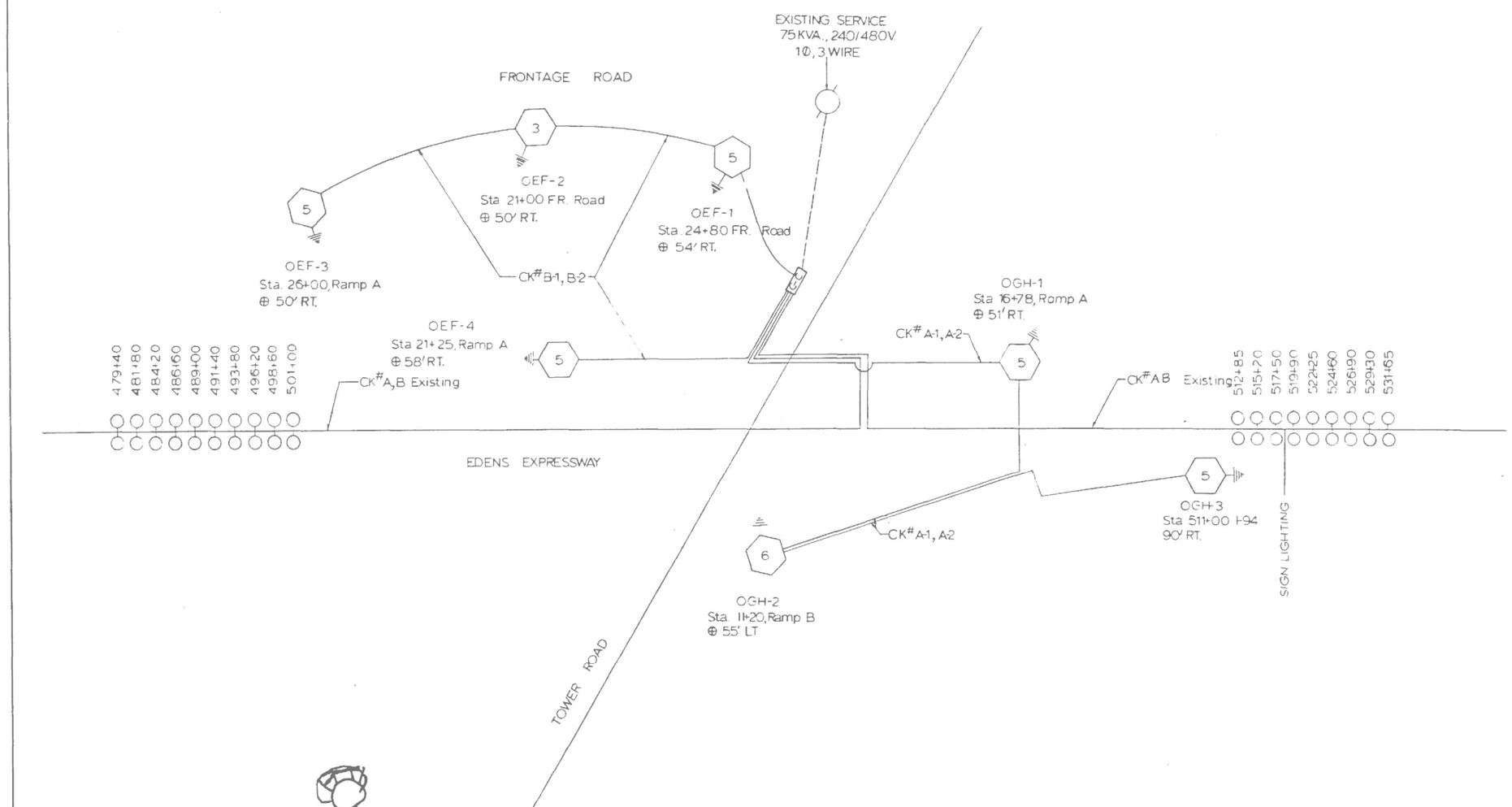
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-071L	COOK	70	27



FOR INFORMATION ONLY

PREPARED BY RACKOFF - EADS
CHICAGO, ILLINOIS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

I-94 EDENS EXPRESSWAY @
TOWER ROAD
WIRING DIAGRAM

SCALE VERT. HORIZ. NONE
DATE JAN 1987
DRAWN BY HES
CHECKED BY

LT–37

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PLOT DATE = 6/23/2023

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

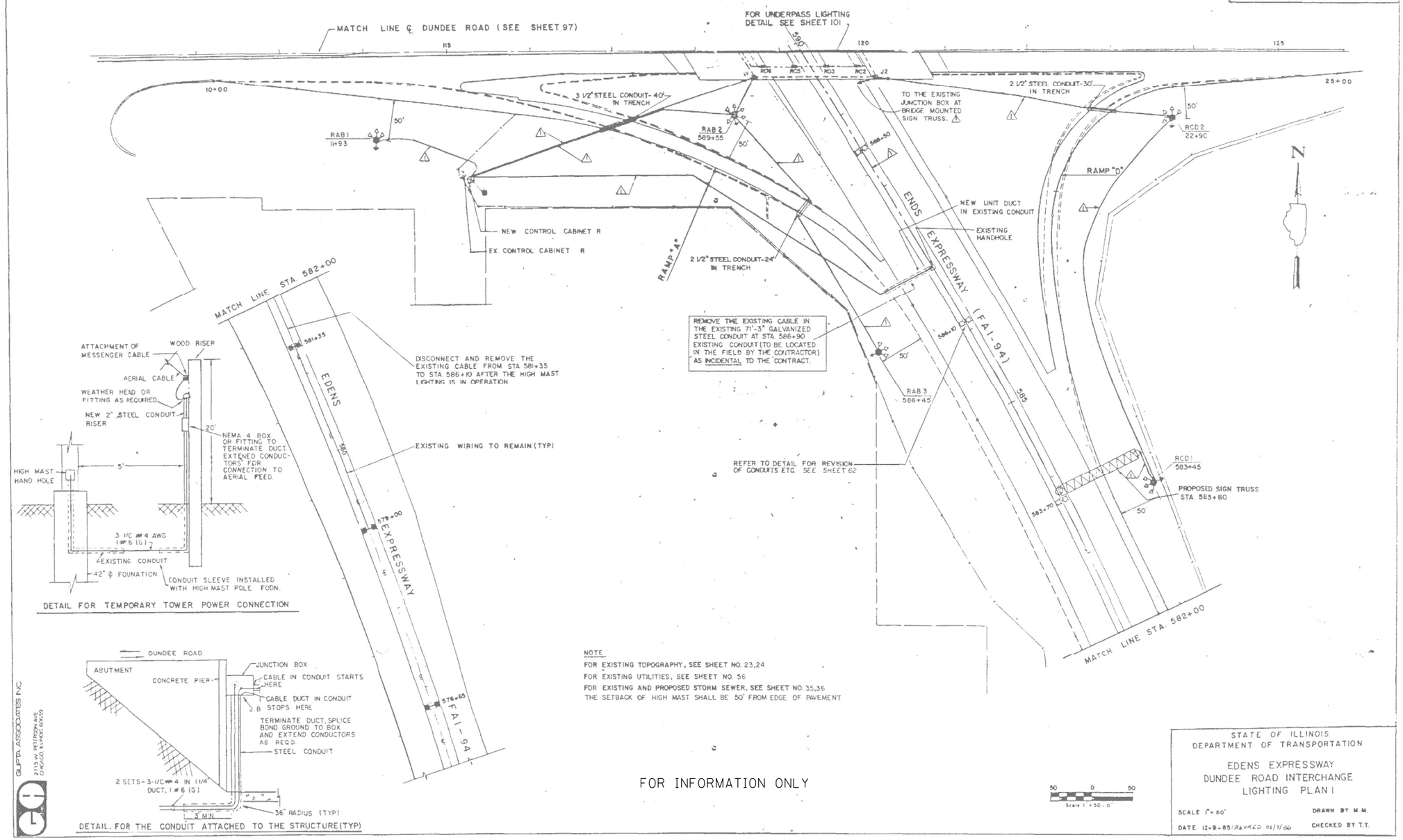
CONTROLLER 0 AS–BUILT INFORMATION

SCALE: NTS SHEET 7 OF 10 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-071L	COOK	84	64
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

Kap Liew 791-0056

F.A.I. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	08091-84	COOK	122	96
STA		TO STA		
FED ROAD DIST NO. 7	ILLINOIS FED. AID PROJECT			



LT–38

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	USER NAME = OGORMAN	DESIGNED - VN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONTROLLER R AS–BUILT INFORMATION	F.A.I RTE. 94	SECTION 2016-07IL	COUNTY COOK / TOTAL SHEETS 84 / SHEET NO. 65
		DRAWN - VN	REVISED -					CONTRACT NO. 62D82
	PLOT SCALE =	CHECKED - RP/MG	REVISED -					ILLINOIS FED. AID PROJECT
	PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -		SCALE: NTS SHEET 8 OF 10 SHEETS STA. TO STA.			

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PLOT DATE = 6/23/2023
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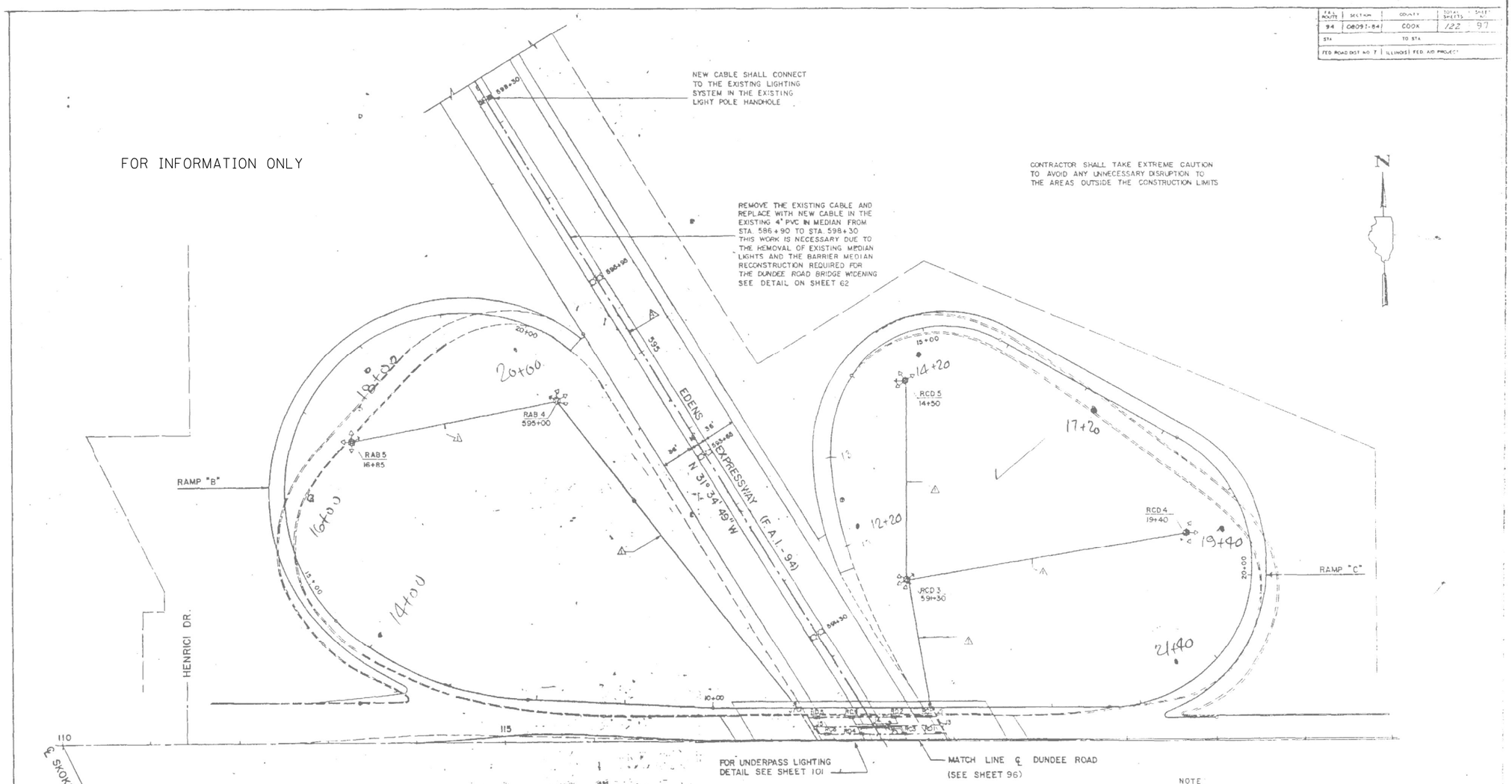
F.A.I. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	08091-84	COOK	122	97
STA.		TO STA.		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY



NOTE

FOR EXISTING TOPOGRAPHY, SEE SHEET NO. 25
FOR EXISTING UTILITIES, SEE SHEET NO. 57
FOR EXISTING AND PROPOSED STORM SEWER, SEE SHEET NO. 37

SYMBOL	LEGEND
	EXISTING FENCE
	R.O.W.
	PROPOSED ELECTRICAL CABLE IN CONDUIT ATTACHED TO THE STRUCTURE
	PROPOSED ELECTRICAL CABLE IN CONDUIT IN TRENCH
	EXISTING ELECTRICAL CABLE TO REMAIN
	PROPOSED ELECTRICAL CABLE IN DUCT IN EXISTING 4" PVC IN MEDIAN
	PROPOSED HIGH MAST LIGHTING
	EXIST. LIGHT POLE & LUMINAIRES TO BE REMOVED
	EXIST. LIGHT POLE & LUMINAIRES TO REMAIN
	PROPOSED UNDERPASS LIGHTS
	GROUND ROD
	PROPOSED ELECTRICAL CABLE IN DUCT IN TRENCH
	EXISTING CONTROL CABINET
	NEW CONTROL CABINET
J1	JUNCTION BOX (SEE SCHEDULE ON SHEET)
	EXISTING HANDHOLE
	EDISON SERVICE LOCATION
	3-1/C #4 AWG IN 1 1/4" DUCT, 1-#6 (G)
	3-1/C #10 AWG IN 1" CONDUIT, 1-#6 (G)
	GALVANIZED STEEL CONDUIT IN TRENCH
	EXISTING CONDUIT IN TRENCH

GUPTA ASSOCIATES INC.
2715 W. PETERSON AVE.
CHICAGO, ILLINOIS 60659

50 0 50
Scale 1" = 50'-0"

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EDENS EXPRESSWAY
DUNDEE ROAD INTERCHANGE
LIGHTING PLAN 2

SCALE 1" = 50' DRAWN BY L.M.
DATE 12-9-85/REVISED 02/7/86 CHECKED BY T.T.

LT–39

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONTROLLER R AS-BUILT INFORMATION

SCALE: NTS SHEET 9 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-071L	COOK	84	66
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

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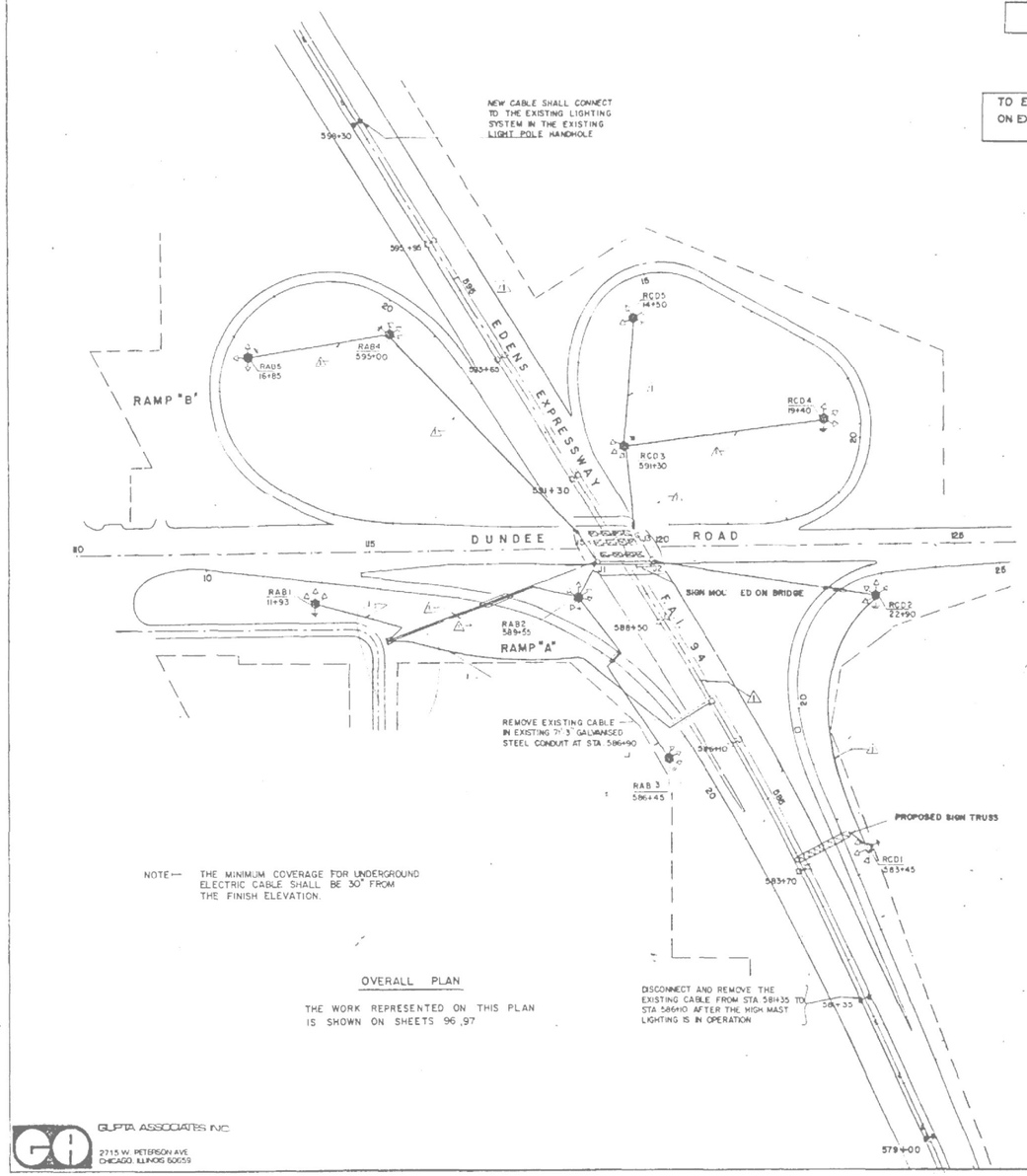
pw:\\Projectwise\MER_jacobs.com\NA1\Documents\C9X920600.I-94.US.41\C9X920600\700cadd\703select\Lighting Plans (50 Scale)\62D82 HMLT replacement\D162D82-1-sht-light-39.dgn

F.A.I. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	121	98
STA.		TO ST.		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY



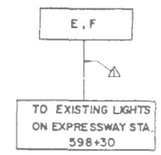
NOTE— THE MINIMUM COVERAGE FOR UNDERGROUND ELECTRIC CABLE SHALL BE 30" FROM THE FINISH ELEVATION.

OVERALL PLAN

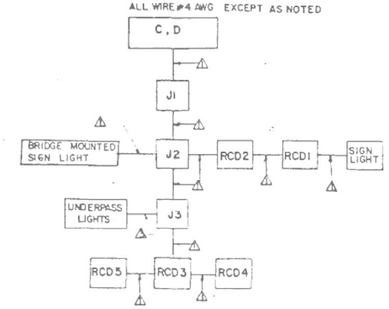
THE WORK REPRESENTED ON THIS PLAN IS SHOWN ON SHEETS 96, 97

GUPTA ASSOCIATES INC
2715 W. PETERSON AVE.
CHICAGO, ILLINOIS 60659

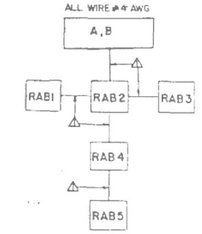
NEW CIRCUIT BREAKER

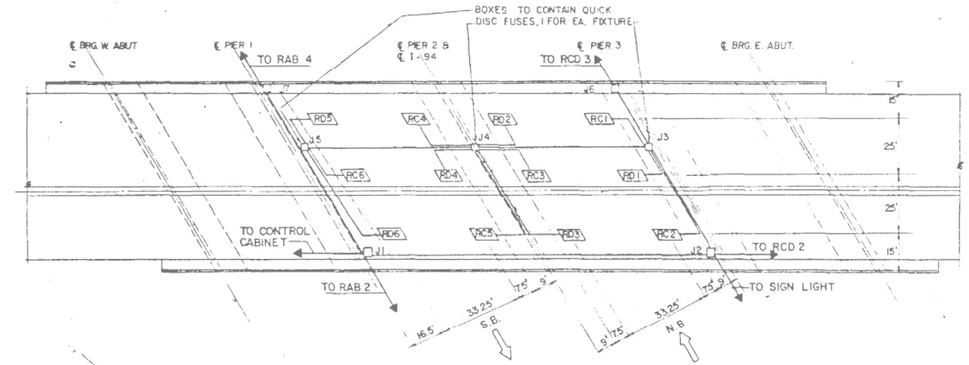


NEW CIRCUIT BREAKER
ALL WIRE #4 AWG EXCEPT AS NOTED



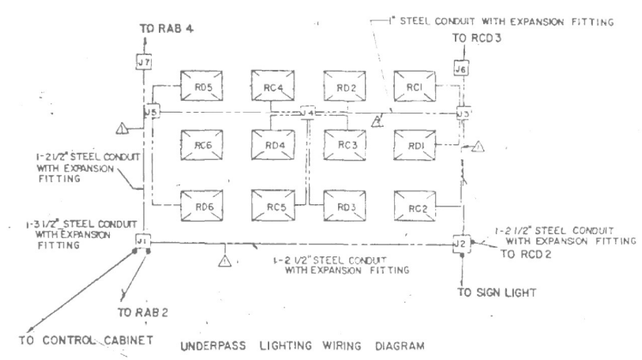
NEW CIRCUIT BREAKER
ALL WIRE #4 AWG





UNDERPASS LIGHTING LOCATION
NOT TO SCALE

J.B. SCHEDULE	
J.B.	SIZE
J1, J2, J3, J4	20" x 18" x 10" (TYP.)
J5, J6, J7	12" x 12" x 6" (TYP.)



UNDERPASS LIGHTING WIRING DIAGRAM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EDENS EXPRESSWAY AND
DUNDEE ROAD INTERCHANGE
WIRE DIAGRAM

SCALE - N.T.S. DRAWN BY: S.K.
DATE 12-9-85/REVISED 02/7/86 CHECKED BY: T.T.

LT-40

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONTROLLER R AS-BUILT INFORMATION

SCALE: NTS SHEET 10 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2016-071L	COOK	84	67
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

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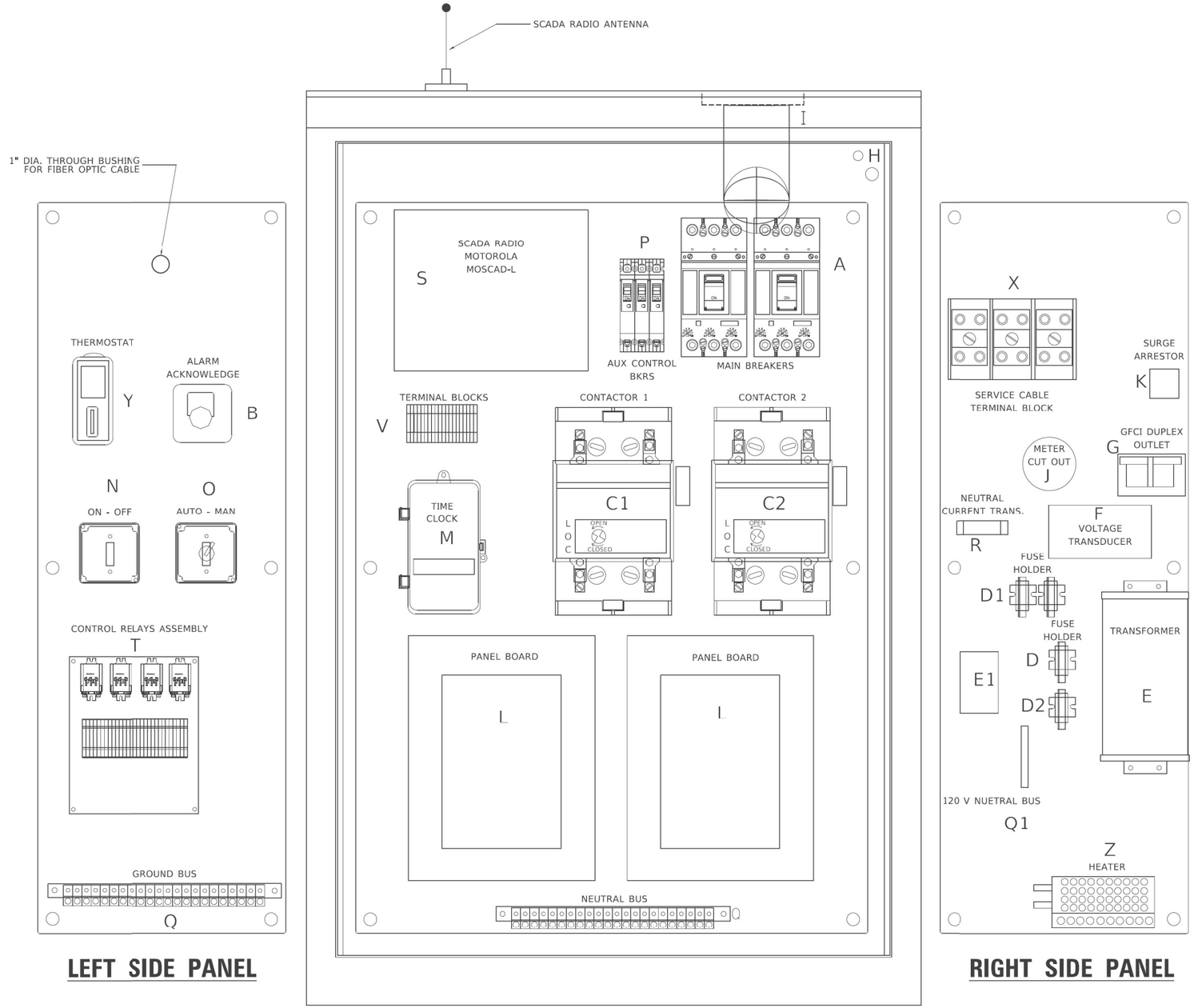
pw:\\ProjectWiseAMER.jacobs.com:N01\Documents\C9X20600.I-94.U.S.41\C9X20600\700cadd\703select\Lighting Plans (50 Scale)\62D82 HMLT replacement\D162D82-1-ahs-light-40.dgn



BILL OF MATERIALS

ITEM	QTY	DESCRIPTION
A	2	MAIN CIRCUIT BREAKERS 2 POLE 200 AMP WITH AUX CONTACT
B	1	ACKNOWLEDGE SWITCH, PUSH BUTTON WITH YELLOW INSERT
C1, C2 *	2	CONTACTOR 2 POLE 200 AMP 240V COIL WITH AUX CONTACTS
D	1	FINGERSAFE FUSE HOLDER WITH KTK - 20A FUSE
D1	2	FINGERSAFE FUSE HOLDER WITH KTK - ½ A FUSE
D2	1	FINGERSAFE FUSE HOLDER WITH KTK - 2A FUSE
E	1	2.0 KVA 277V-240/120 TRANSFORMER
E1	1	0.25 KVA240/ 120 - 24 VAC TRANSFORMER
F	1	VOLTAGE TRANSDUCER WITH COVER TERMINALS
G	1	20 AMP GFCI DUPLEX OUTLET W/COVER
H	2	DOOR SWITCH
I	1	LIGHT FIXTURE
J	1	METER FITTING 1 PHASE 3 WIRE 200 AMP
K	1	SURGE ARRESTER
L	2	PANEL BOARD 480/ 240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OFF
O	1	SQUARE D, 9001KS11BH13, 2 POSITION SWITCH IN 9001KY1 ENCLOSURE OR APPROVED EQUAL
P	2	BREAKER 1P 15A
Q	2	COPPER GROUND AND NEUTRAL BUS 1 X 16 X 1/4
Q1	1	COPPER NEUTRAL BUS WITH 1 #6 AND 8 #12 CONDUCTOR POINTS
R	1	CURRENT TRANSDUCER
S	1	MOTOROLA MOSCAD-L RADIO, 240 V
T *	1	CONTROL RELAY ASSEMBLY 240V COILS WITH 4 - 3PDT 25A RELAYS (W389ACX-15) (R1, R2, R3, R4). QTY 32 TERMINAL BLOCKS
V	20	TERMINAL BLOCKS
X *	1	620 AMP SPLICE BLOCK
Y	1	40-80 DEGREE THERMOSTAT
Z	1	375 WATT HEATER

* TERMINALS SHALL BE COVERED WITH CLEAR PLEXIGLASS SHEET

MODEL: Default
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USER NAME = leysa	DESIGNED - R. TOMSONS	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 1/15/2020	DATE - 01-15-2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING CONTROLLER, BASE MOUNTED,
480VOLT, 200AMP (DUAL) RADIO SCADA – FIBER OPTIC PROVISION

SCALE: NONE | SHEET 1 OF 4 SHEETS | STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-206	CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

LT-41

pw:\\Project\Wsea\MER.jacobs.com\M1\Documents\C%20608.1-94.U.S. 41\C%20608\700cadd\703elect\Lighting Plans (50 Scale)\62D82 HML T replacement\H01.D162D82-1-sht-standard-01.dgn

SINGH
SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

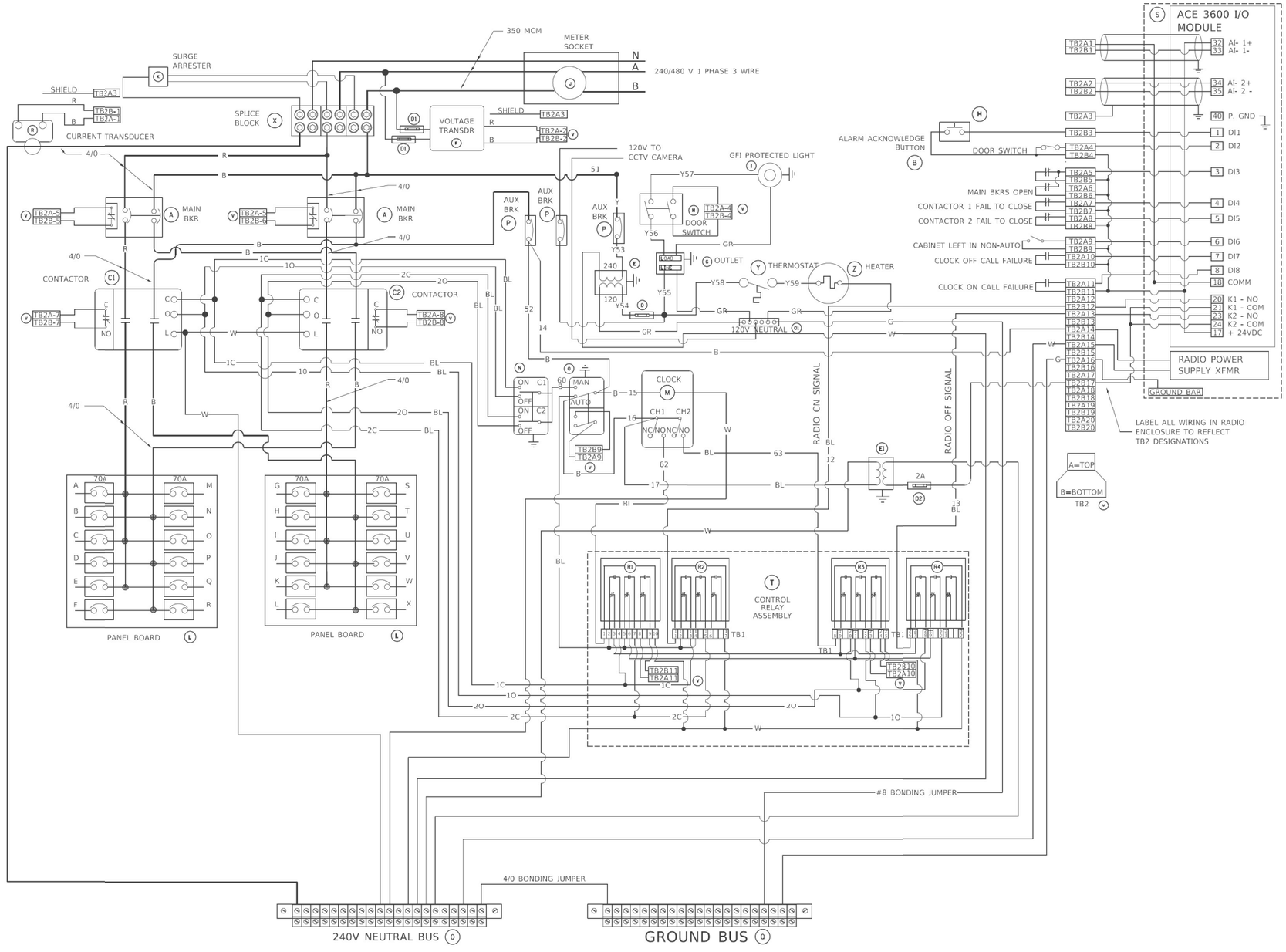
USER NAME = OGORMAN	DESIGNED - VN	REVISED -	
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT D1–BUREAU OF ELECTRICAL DETAIL STANDARDS

SCALE: SHEET 1 OF 10 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2019-071L	COOK	84	68
		CONTRACT NO. 62D82		
	ILLINOIS FED. AID PROJECT			



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ITEM	QTY	DESCRIPTION
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E	1	2.0 KVA 277V-240/120 TRANSFORMER
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G	1	20 AMP GFCI DUPLEX OUTLET W/COVER
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L	2	PANEL BOARD 480/ 240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OFF
O	1	SQUARE D, 9001KS11BH13, 2 POSITION SWITCH IN 9001KY1 ENCLOSURE OR APPROVED EQUAL
P	2	BREAKER 1P 15A
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V	20	TERMINAL BLOCKS
X *	1	620 AMP SPLICE BLOCK
Y	1	40-80 DEGREE THERMOSTAT
Z	1	375 WATT HEATER

* TERMINALS SHALL BE COVERED WITH CLEAR PLEXIGLASS SHEET

USER NAME = leysa	DESIGNED - R. TOMSONS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 1/15/2020	DATE - 01-15-2020	REVISED -	

LIGHTING CONTROLLER, BASE MOUNTED,
480VOLT, 200AMP (DUAL) RADIO SCADA – FIBER OPTIC PROVISION

SCALE: NONE | SHEET 2 OF 4 SHEETS | STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BE–206		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

LT–42

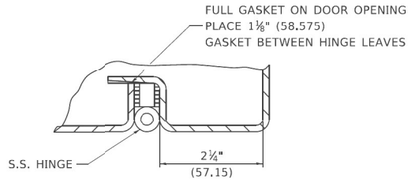
SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

IDOT D1–BUREAU OF ELECTRICAL DETAIL STANDARDS

SCALE: SHEET 2 OF 10 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2019-07IL	COOK	84	69
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		



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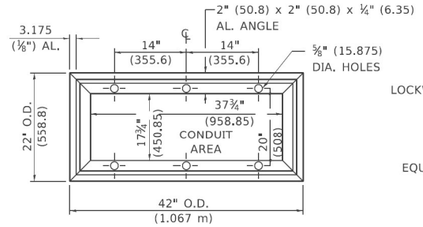
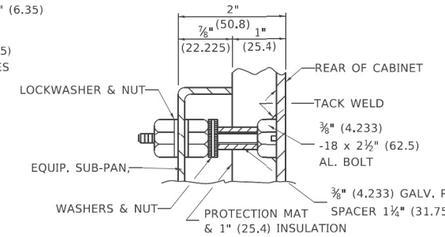
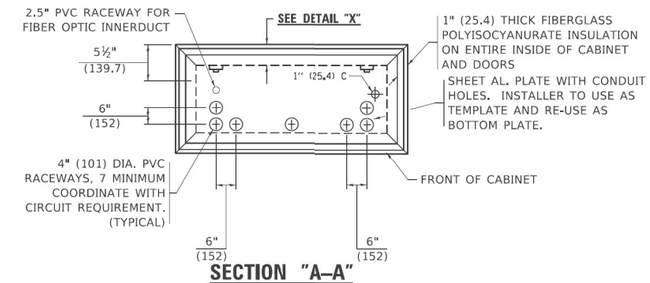


BASE MTG. DETAIL



DETAIL "X"



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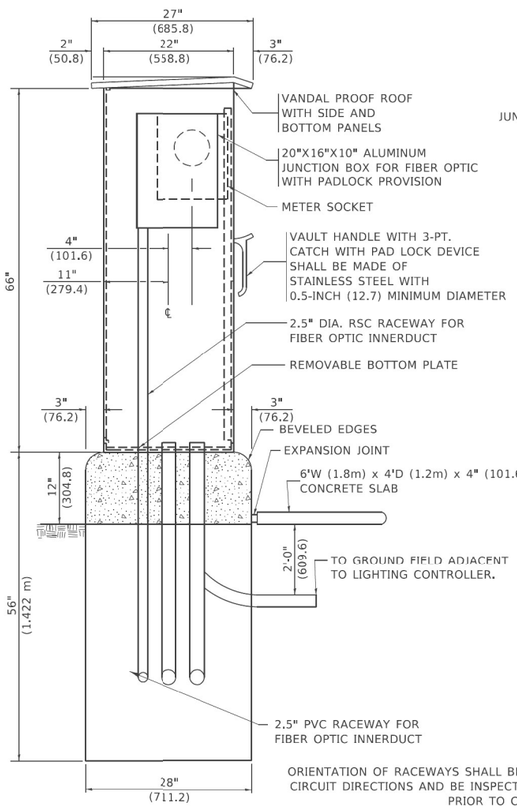
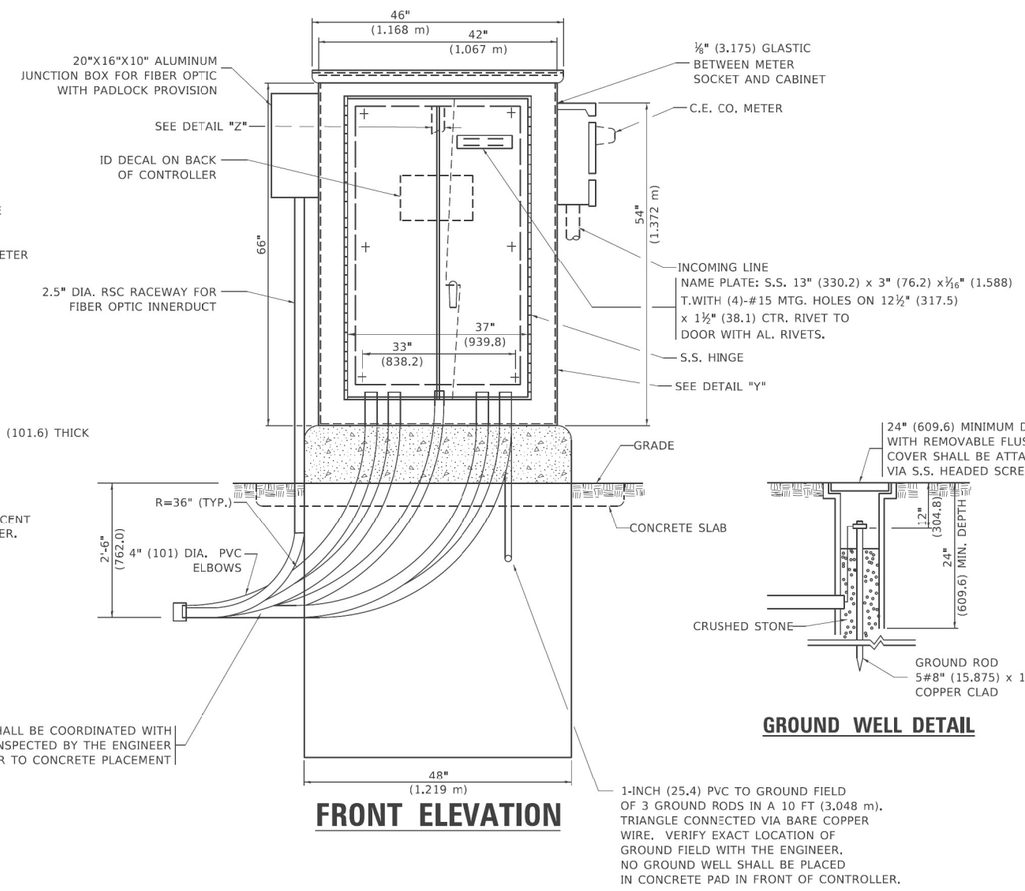
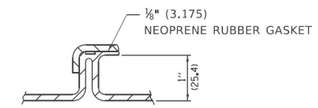


LEFT SIDE ELEVATION



FRONT ELEVATION



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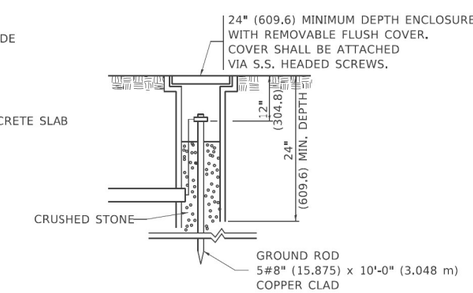
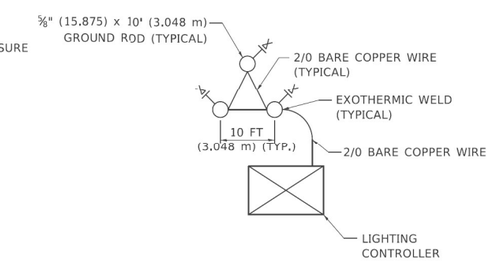


GROUND WELL DETAIL



GROUND FIELD DETAIL (N.T.S.)

THE CONTRACTOR SHALL
VERIFY EXACT LOCATION
WITH THE ENGINEER

USER NAME = leysa	DESIGNED - R. TOMSONS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 1/15/2020	DATE - 01-15-2020	REVISED -	

LIGHTING CONTROLLER, BASE MOUNTED,
480VOLT, 200AMP (DUAL) RADIO SCADA – FIBER OPTIC PROVISION

SCALE: NONE | SHEET 3 OF 4 SHEETS | STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE–206	CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

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LT–43

SINGH + ASSOCIATES, INC.
CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

IDOT D1–BUREAU OF ELECTRICAL DETAIL STANDARDS

SCALE: | SHEET 3 OF 10 SHEETS | STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2019-071L	COOK	84	70
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

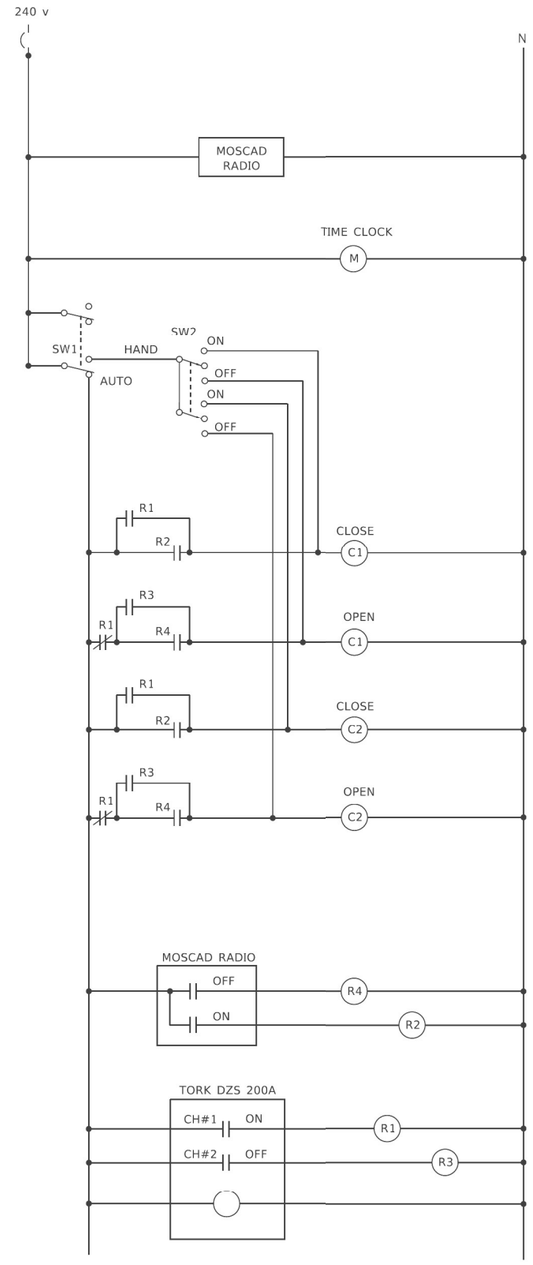
pw:\\Project\wsaMER.jacobs.com:MQ1\Documents\C9X28608.1-94.US.41\C9X28608\700cadd\703select\Lighting Plans (50 Scale)\62D82 HMLT replacement\H03.D162D82-1-sht-standard-03.dgn

NOTES

1. CABINET SHALL BE FABRICATED FROM 0.125-INCH (3.175) SHEET ALUMINUM #3003H14, FORMED AND ARC WELDED.
2. ALL SCREWS AND HARDWARE SHALL BE PLATED, GALVANIZED, OR MADE OF BRASS, ALUMINUM OR STAINLESS STEEL, UNLESS OTHERWISE NOTED.
3. NAME PLATE SHALL HAVE ENGRAVED 0.75-INCH (19.05) HIGH LETTERS FILLED IN BLACK: "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.
4. ONE INCH THICK POLYISOCYANURATE INSULATION SHALL BE INSTALL AND PERMANENTLY CEMENTED ON ALL SIDES OF THE CABINET AND DOORS.
5. CABINET SHALL BE PRIMED AND PAINTED AS SPECIFIED.
6. ELECTRIC UTILITY METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET AS SHOWN ON THE PANEL LAYOUT DIAGRAM.
7. THE COMPLETED CONTROLLER SHALL BE U.L. LISTED AS AN INDUSTRIAL CONTROL PANEL UNDER UL508.
8. METAL MOUNTING PANEL SHALL BE FABRICATED FROM THE SAME MATERIAL AS THE CABINET AND SHALL BE FLANGED BACK 0.75-INCHES I.D. ON 4 SIDES.
9. CIRCUIT BREAKERS AND CONTACTORS AND OTHER COMPONENTS SHALL BE MOUNTED ON 0.125-INCH (3.175) THICK GLASTIC INSULATION BACK PANEL.
10. ALL DEVICES SHALL BE FRONT REMOVABLE.
11. TIME CLOCK CHANNEL 1 N.O. CONTACT IS CLOSED NIGHT AND OPEN DAY (LIGHTS ON).
12. SET LATITUDE TO 42 DEGREES. SET CH.1 TO 23 MINUTES AFTER ASTRONOMICAL SUNSET, 50 MINUTES BEFORE ASTRONOMICAL SUNRISE. SET CH.2 TO 60 MINUTES AFTER ASTRONOMICAL SUNSET (WITH A SIGNAL LENGTH OF 1 SECOND), +28 MINUTES AFTER ASTRONOMICAL SUNRISE (WITH A SIGNAL LENGTH OF 7 SECONDS.)
13. BUS BAR SHALL HAVE 22 LUG TERMINALS SIZED TO ACCOMMODATE REQUIRED WIRE SIZES. 240V NEUTRAL BUS SHALL BE PAINTED WHITE, GROUND BUS SHALL BE PAINTED GREEN, AND THE 120V NEUTRAL BUS SHALL BE PAINTED GREY.
14. ALL LUGS SHALL BE OF COPPER SCREWS AND CONNECTORS, SPRING HELD.
15. ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE CENTIGRADE.
16. ALL CONTROL WIRING SHALL BE 600V #12 TYPE MTW, SCADA WIRING SHALL BE #18.
17. ALL POWER WIRING SHALL BE 600V TYPE RHH/RHW.
18. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:

    R = RED Y = YELLOW
    B = BLACK W = WHITE
    BL = BLUE G = GREEN
    G = GREY

19. MOSCAD I/O WIRING SHALL BE:
    DIGITAL INPUT (DI) WIRING SHALL BE #18 MTW PURPLE.
    ANALOG INPUT (AI) WIRING SHALL BE #18, 2/C SHIELDED.
    AI AND DI WIRING MAY BE BUNDLED TOGETHER, BUT SHALL NOT BE BUNDLED WITH OTHER WIRING.
20. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
21. SCHEMATIC SHOWN WITH BREAKER OPEN, CONTACTOR OPEN, CABINET DOOR CLOSED, CLOCK NOT ACTIVE (DE-ENERGIZED STATE).
22. A LAMINATED COPY OF THE CIRCUIT SCHEMATIC AND SCADA I/O DIAGRAM (NO SMALLER THAN 11"x17" EACH) SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER WITH STAINLESS STEEL SCREWS.



CONTROL CIRCUIT LADDER LOGIC DIAGRAM

MOSCAD I/O ASSIGNMENTS		
TERM	MOSCAD DESTINATION	DESCRIPTION OF INPUT
1	DIGITAL INPUT 1	ALARM KNOWLEDGE
2	DIGITAL INPUT 2	DOOR OPEN
3	DIGITAL INPUT 3	MAIN(S) BREAKER OPEN
4	DIGITAL INPUT 4	CONTACTOR 1 OPEN
5	DIGITAL INPUT 5	CONTACTOR 2 OPEN
6	DIGITAL INPUT 6	CABINET IN NON-AUTO
7	DIGITAL INPUT 7	BACK-UP CLOCK OFF CALL
8	DIGITAL INPUT 8	BACK-UP CLOCK ON CALL
17	24 V+	24+VDC
18	DI COMMON	COMMON
21	K1 C	K1 COMMON
22	K1 NO	LIGHTS ON CALL
24	K2 C	K2 COMMON
25	K2 NO	LIGHTS OFF CALL
32	ANALOG INPUT 1 (+)	CABINET NEUTRAL CURRENT
33	ANALOG INPUT 1 (-)	CABINET NEUTRAL CURRENT
34	ANALOG INPUT 2 (+)	CABINET SERVICE VOLTAGE
35	ANALOG INPUT 2 (-)	CABINET SERVICE VOLTAGE
40	P. GROUND	GROUND

ALL ANALOG INPUTS WILL BE 4-20 MA ONLY. DIGITAL OUTPUT RELAYS WILL BE ELECTRICALLY ENERGIZED AND MOMENTARILY HELD

MIXED I/O MODULE MODEL NUMBER V436

USER NAME = leysa	DESIGNED - B. TOMSONS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 1/15/2020	DATE - 01-15-2020	REVISED -	

LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL) RADIO SCADA – FIBER OPTIC PROVISION

SCALE: NONE | SHEET 4 OF 4 SHEETS | STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-206	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

LT-44

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

IDOT D1–BUREAU OF ELECTRICAL DETAIL STANDARDS

SCALE: SHEET 4 OF 10 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2019-071L	COOK	84	71
		CONTRACT NO. 62D82		
	ILLINOIS FED. AID PROJECT			

pw:\\Projects\Wse04ER.jacobs.com\Documents\C9X20600_I-94_US_41\C9X20600\700cadd\703elec\Lighting Plans (50 Scale)\62D82 HMLT replacement\H04_D62D82-1-sht-standard-04.dgn
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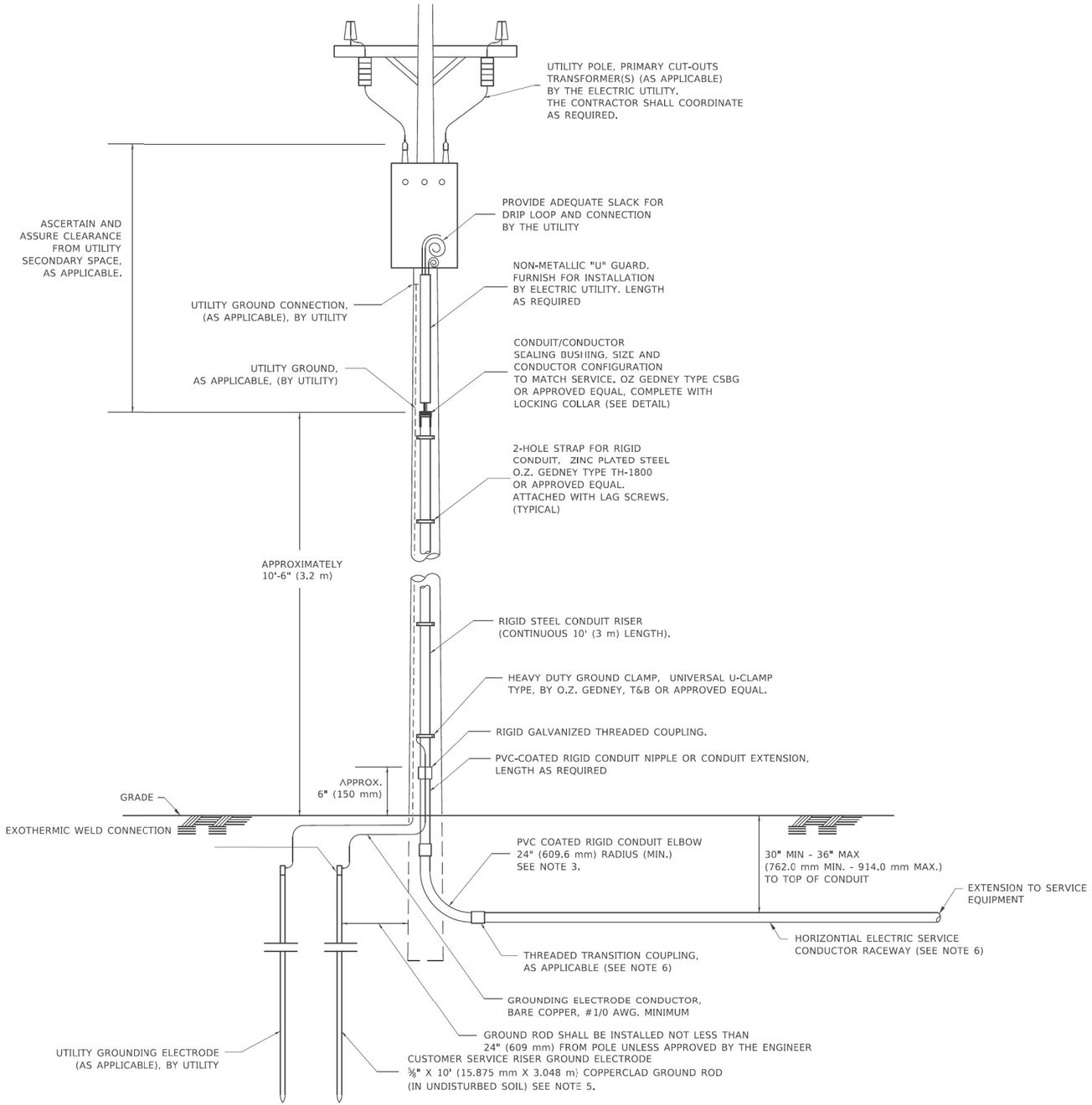
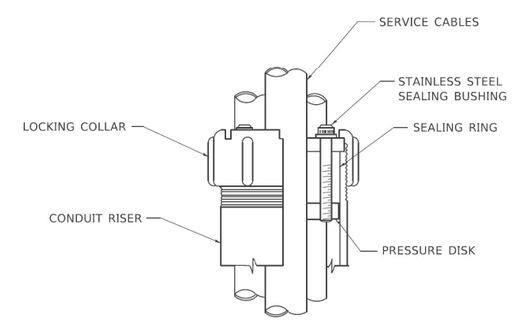


APPLICATION

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

NOTES

1. SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
2. UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
3. CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
4. PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
5. THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
6. THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
7. PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.



SEALING BUSHING DETAIL

USER NAME = footemj	DESIGNED -	REVISED - 03-03-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED - MEA	REVISED -	
PLOT DATE = 4/19/2019	DATE -	REVISED -	

ELECTRIC SERVICE INSTALLATION
AERIAL, REMOTE DISCONNECT

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-220	CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

LT-45

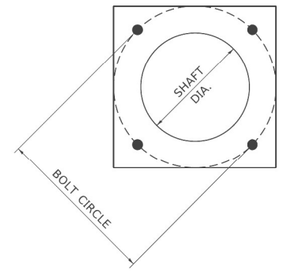
USER NAME = OGORMAN	DESIGNED - VN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

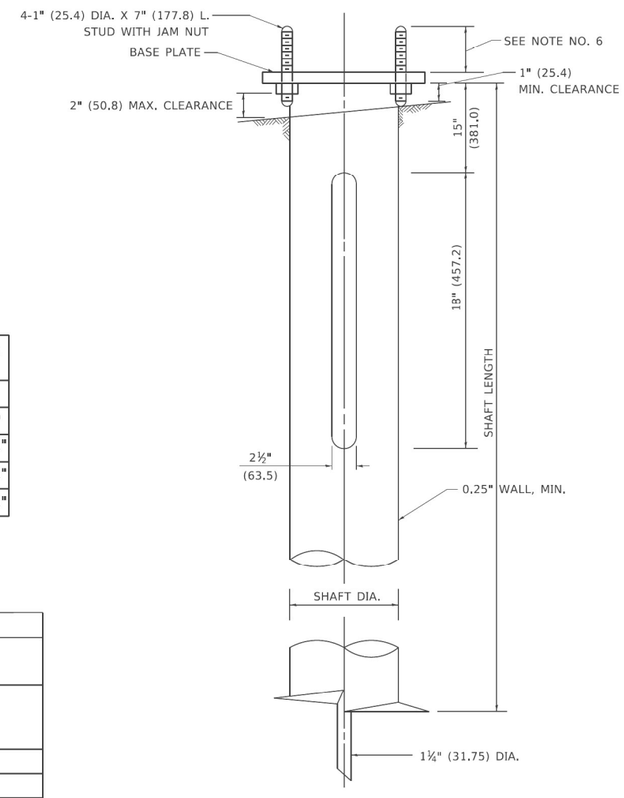
SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS

SCALE: | SHEET 5 OF 10 SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2019-071L	COOK	84	72
		CONTRACT NO. 62D82		
	ILLINOIS FED. AID PROJECT			





HELIX FOUNDATION SIZE

POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.	11½"	8⅝"	6 FT.	12"x12"x1"
31 FT.-35 FT.	11½"	8⅝"	6 FT.	12"x12"x1"
36 FT.-40FT.	15"	8⅝"	6 FT.	15"x15"x1¼"
41 FT.-45 FT.	15"	8⅝"	6 FT.	15"x15"x1¼"
46 FT.-50 FT.	15"	10"	8 FT.	15"x15"x1¼"

METAL HELIX FOUNDATION MATERIALS

ITEM	MATERIAL REQUIREMENT
BASEPLATE	AASHTO M 270M, GRADE 36 (M270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS/STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291M (ASTM A 563) GRADE DH, OR AASHTO M 292 (ASTM A 194) GRADE 2H
WASHERS	AASHTO M 293 (ASTM F 436)

NOTES

1. ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. ALL MATERIAL SHALL BE GALVINIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
3. ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN 1#4" (6.35 mm) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558.18 n.m) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
4. THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
5. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
6. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
7. ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
8. METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDTION IS NOT ALLOWED.
9. THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB (4,750 KNM). METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
10. THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS (± 1°) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC (± 0.188) TO THE SHAFT AXIS.
11. THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC (± 0.125) AND IN LINE (± 2°).
12. THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.

USER NAME = footemj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - DLB	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 4/19/2019	DATE - 02-27-07	REVISED -	

LIGHT POLE FOUNDATION, METAL

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-305	CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

LT-46

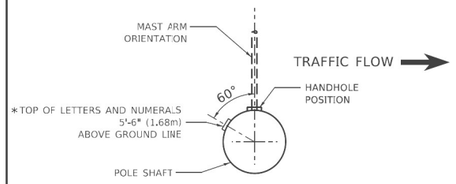
SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

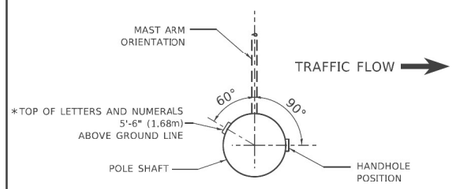
IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS

SCALE: SHEET 6 OF 10 SHEETS STA. TO STA.

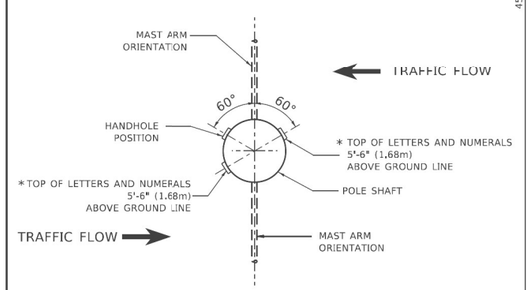
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2019-07IL	COOK	84	73
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		



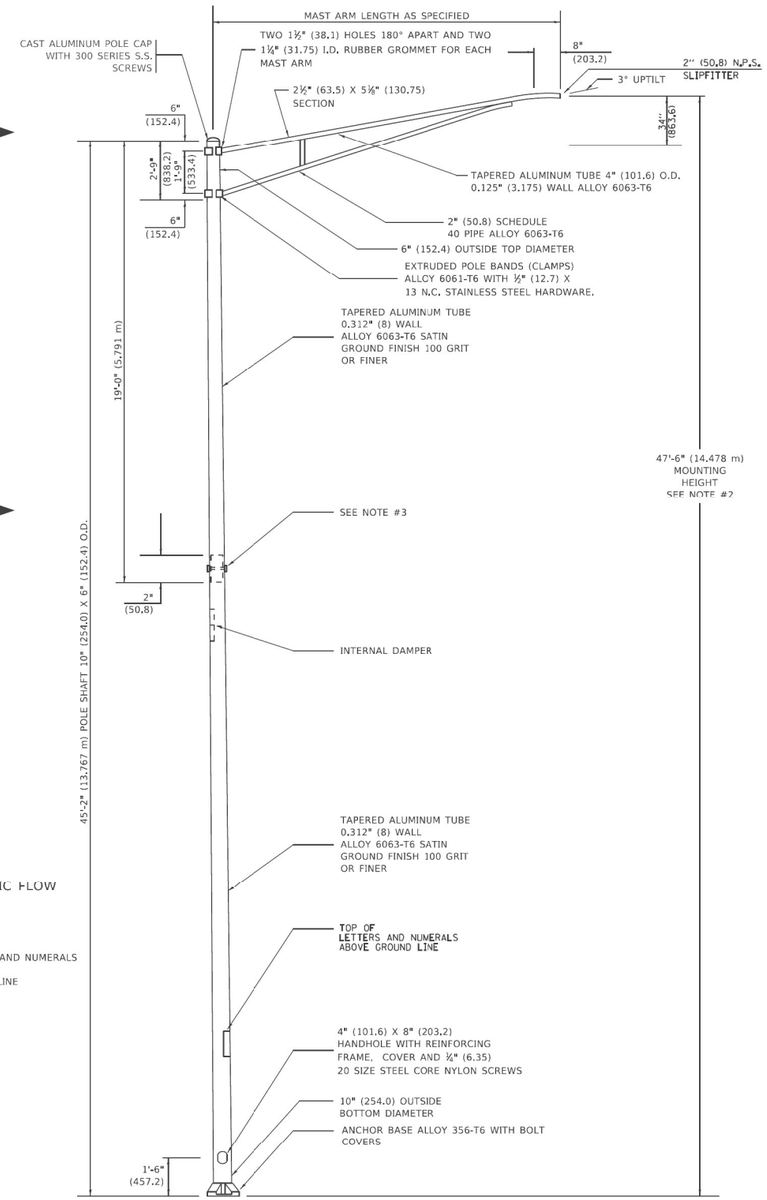
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL

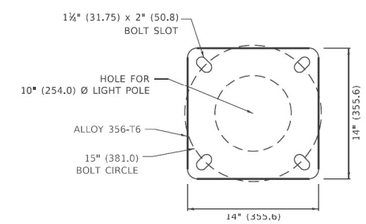


POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



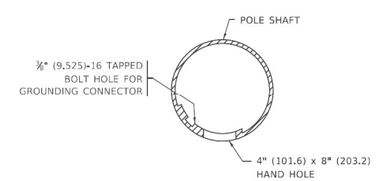
POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES





LIGHT POLE BASE PLATE DETAIL

15 INCH (381.0) BOLT CIRCLE



HANDHOLE DETAIL
(N.T.S.)

NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
3. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
5. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR. BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
8. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.

MODEL: Default
FILE NAME: Widtiscs(22x34)e400.dgn

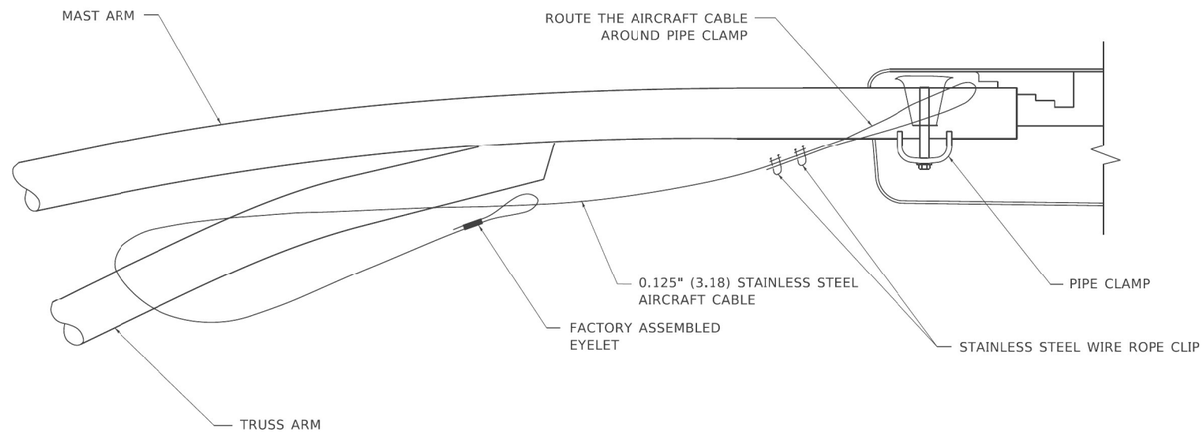
USER NAME = Lawrence.DeMancha	DESIGNED -	REVISED - R. TOMSONS 09-03-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALUMINUM LIGHT POLE 47'-6" (14.478 m) MOUNTING HEIGHT	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED - R. TOMSONS 01-18-13			BE-400 / CONTRACT NO.
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. TOMSONS 03-18-15		SCALE: NONE / SHEET 1 OF 1 SHEETS / STA. / TO STA.	ILLINOIS FED. AID PROJECT
PLOT DATE = 6/27/2022	DATE -	REVISED - 06/13/2022 TG			

LT-47

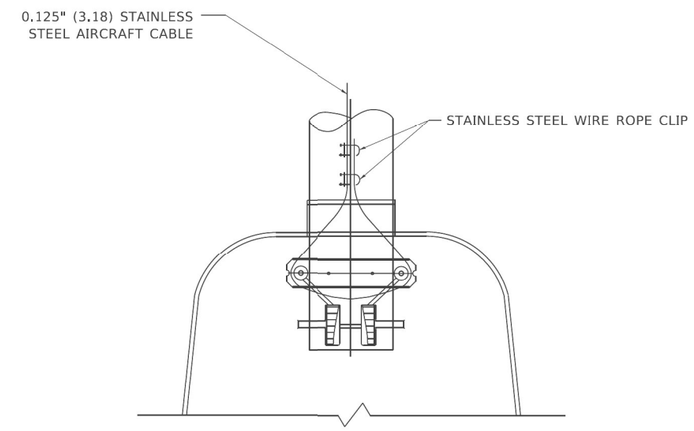
SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS	F.A.I RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN - VN	REVISED -			94 / 2019-071L / COOK / 84 / 74
PLOT SCALE =	CHECKED - RP/MG	REVISED -			CONTRACT NO. 62D82
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -		SCALE: / SHEET 7 OF 10 SHEETS / STA. / TO STA.	ILLINOIS FED. AID PROJECT

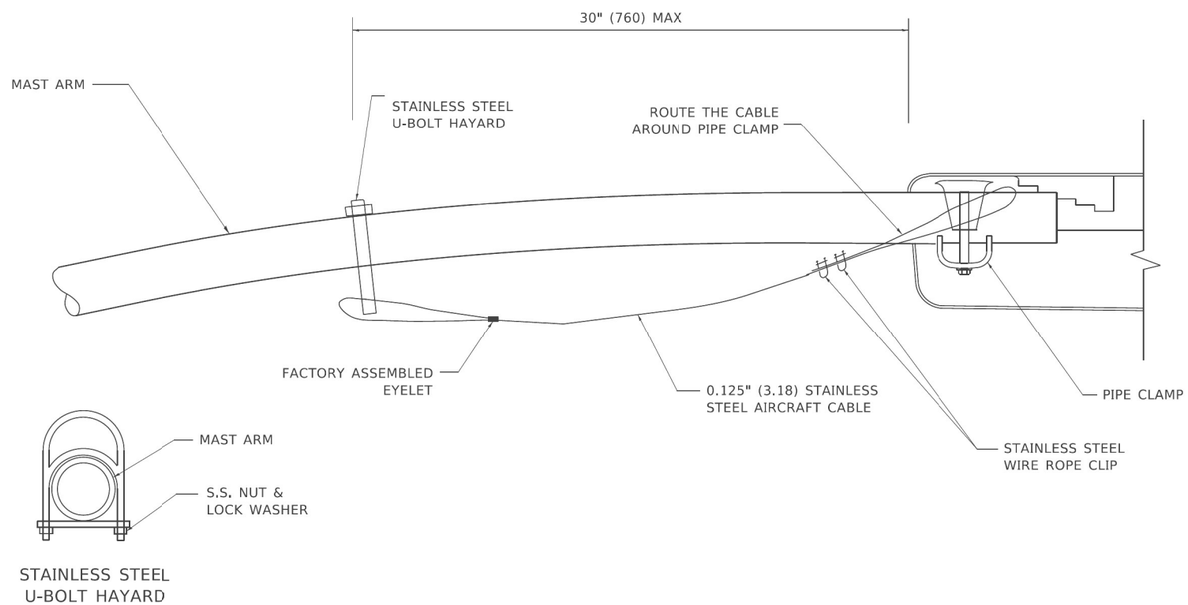
pw:\\Projectwise\AMER_jacobs.com\Nat\Documents\C9X20D608_I-94_U.S. 41\C9X920D608\700cadd\703plans\Lighting Plans (50 Scale)\62D82 HMLT replacement\H07_D62D82-1-sht-standard-07.dgn



SIDE VIEW (TRUSS ARM)
N.T.S.



BOTTOM VIEW
N.T.S.



SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)
N.T.S.

NOTES:

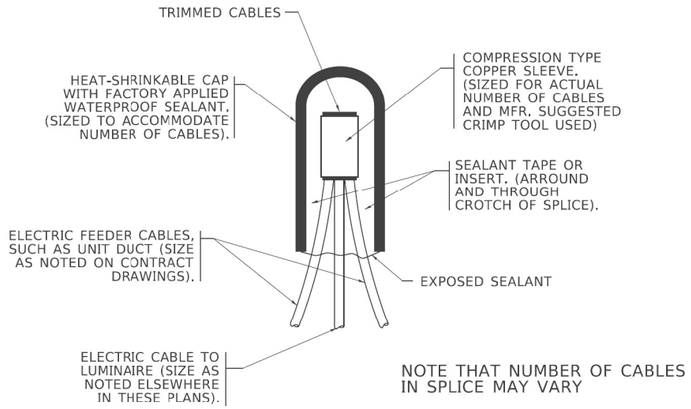
1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

USER NAME = footemj	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LUMINAIRE SAFETY CABLE ASSEMBLY	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -							
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -			BE-701		CONTRACT NO.		
PLOT DATE = 4/19/2019	DATE -	REVISED -		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		

LT-48

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME = OGORMAN	DESIGNED - VN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - VN	REVISED -			94	2019-071L	COOK	84	75
PLOT SCALE =	CHECKED - RP/MG	REVISED -					CONTRACT NO. 62D82		
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -		SCALE: SHEET 8 OF 10 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			



TYPICAL SPLICE DETAIL
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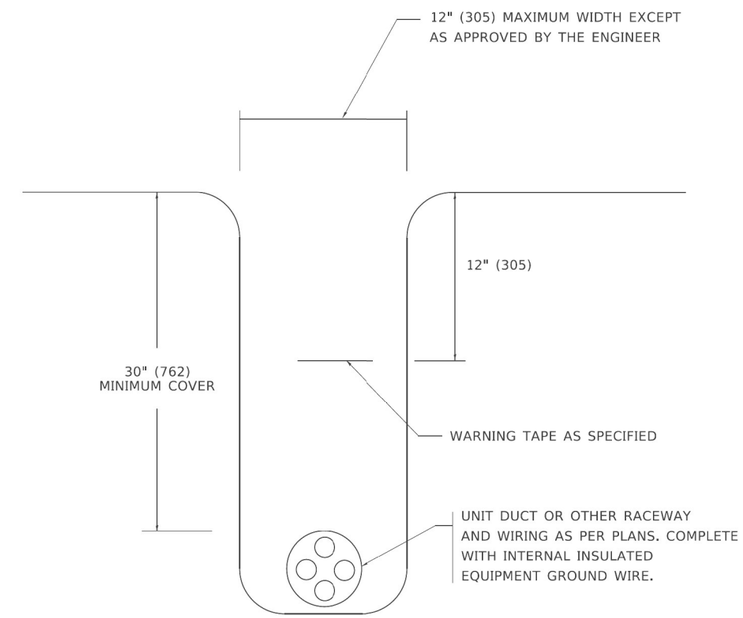

TYPICAL WIRING IN TRENCH DETAIL
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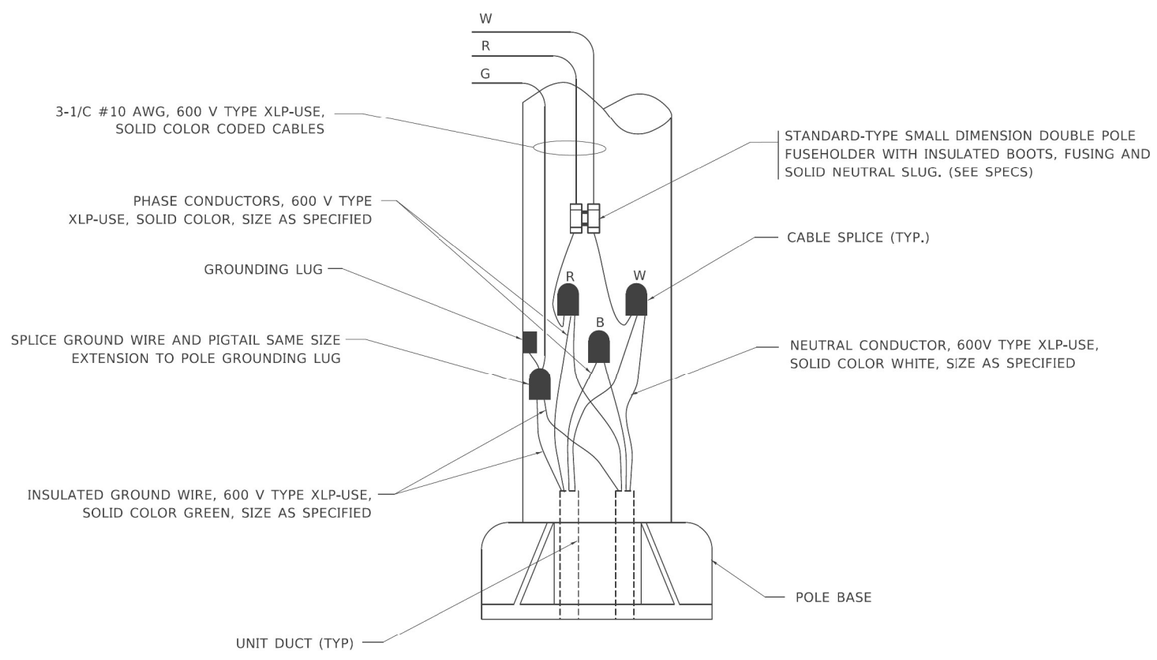

POLE WIRING DETAIL
N.T.S.

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USER NAME = leysa	DESIGNED -	REVISED - 02/04/2020	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/2/2020	DATE - 08/08/2003	REVISED -	

MISC. ELECTRICAL DETAILS
SHEET A

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-702	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

LT-49

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

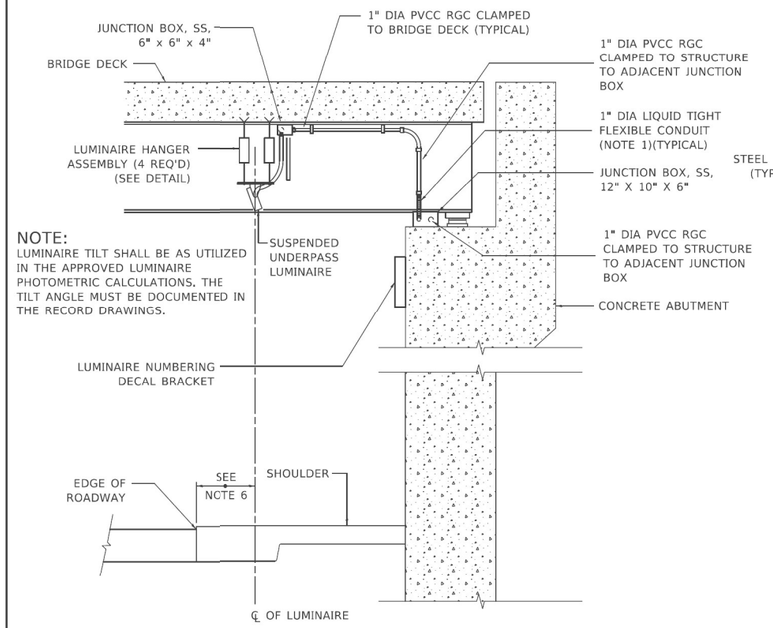
USER NAME = OGORMAN	DESIGNED - VN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - VN	REVISED -	
PLOT SCALE =	CHECKED - RP/MG	REVISED -	
PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -	

IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS

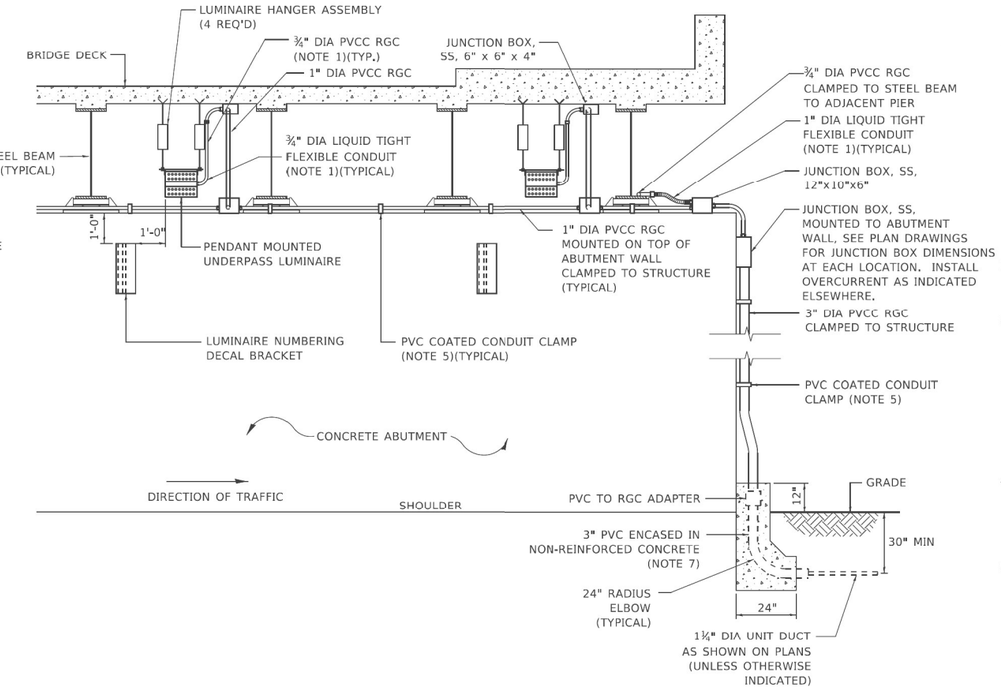
SCALE: SHEET 9 OF 10 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2019-071L	COOK	84	76
		CONTRACT NO. 62D82		
	ILLINOIS FED. AID PROJECT			

pw:\\Projects\WseADER.jacobs.com\AD\Documents\C9X20608_I-94_U.S._41\C9X20608\700cadd\703elec\Lighting Plans (50 Scale)\62D82 HMLT replacement\H09_D1B2D82-lt-standard-03.dgn

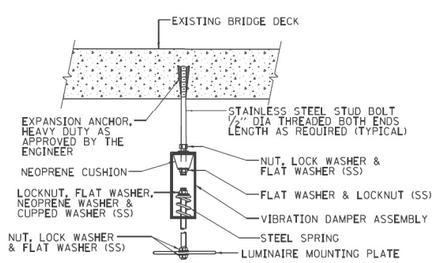


NOTE:
LUMINAIRE TILT SHALL BE AS UTILIZED IN THE APPROVED LUMINAIRE PHOTOMETRIC CALCULATIONS. THE TILT ANGLE MUST BE DOCUMENTED IN THE RECORD DRAWINGS.

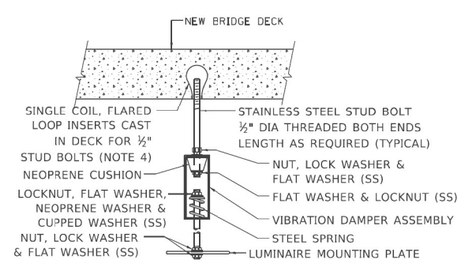


NOTES:

1. LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT " DIA. CONDUIT AND " DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE COST OF UNDERPASS LUMINAIRE INSTALLATION.
2. SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LIGHTING LUMINAIRES.
3. THE CONTRACTOR SHALL USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN SUSPENDED MOUNTING AN UNDERPASS LUMINAIRE TO A NEW BRIDGE DECK. THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING THE INSERT LOCATIONS FOR MOUNTING THE UNDERPASS LIGHTING SYSTEM AS SHOWN ON THE PLANS WITH THE BRIDGE DECK CONTRACTOR. SEE DETAIL.
4. THE UNDERPASS LUMINAIRE HANGER ASSEMBLY COMPLETE WITH HEAVY DUTY ANCHORS/INSERTS AND ALL APPLICABLE HARDWARE SHALL BE INCLUDED IN THE COST OF THE UNDERPASS LUMINAIRE PAY ITEM.
5. SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
6. ALL UNDERPASS LUMINAIRES MUST BE CENTERED IN THE BEAM SPACE AS INDICATED ON THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGR. LUMINAIRE SETBACK SHALL BE AS INDICATED IN PLANS FOR EACH SPECIFIC UNDERPASS
7. THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
8. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.
9. IN NO INSTANCE SHALL ANY UNDERPASS LUMINAIRE OR ANY OTHER ELECTRICAL EQUIPMENT BE INSTALLED BELOW THE ELEVATION OF THE BOTTOM OF THE BRIDGE BEAM WHEN OVER ANY PAVEMENT (ROADWAY OR SHOULDER).

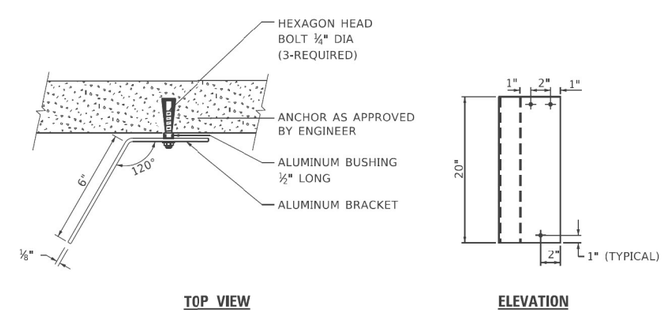


EXISTING BRIDGE DECK INSTALLATION



NEW BRIDGE DECK INSTALLATION

TYPICAL LUMINAIRE HANGER ASSEMBLY DETAILS



TOP VIEW **ELEVATION**

LUMINAIRE NUMBERING DECAL BRACKET

NOT TO SCALE

PVC COATED CONDUIT BEAM CLAMP
NOT TO SCALE

PVC COATED CONDUIT CLAMP
NOT TO SCALE

USER NAME = gaglianobt	DESIGNED -	REVISED - 12-12-05	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED -			BE-901 / CONTRACT NO.
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -		SCALE: NONE / SHEET 1 OF 1 SHEETS / STA. TO STA.	ILLINOIS / FED. AID PROJECT
PLOT DATE = 1/15/2020	DATE -	REVISED -			

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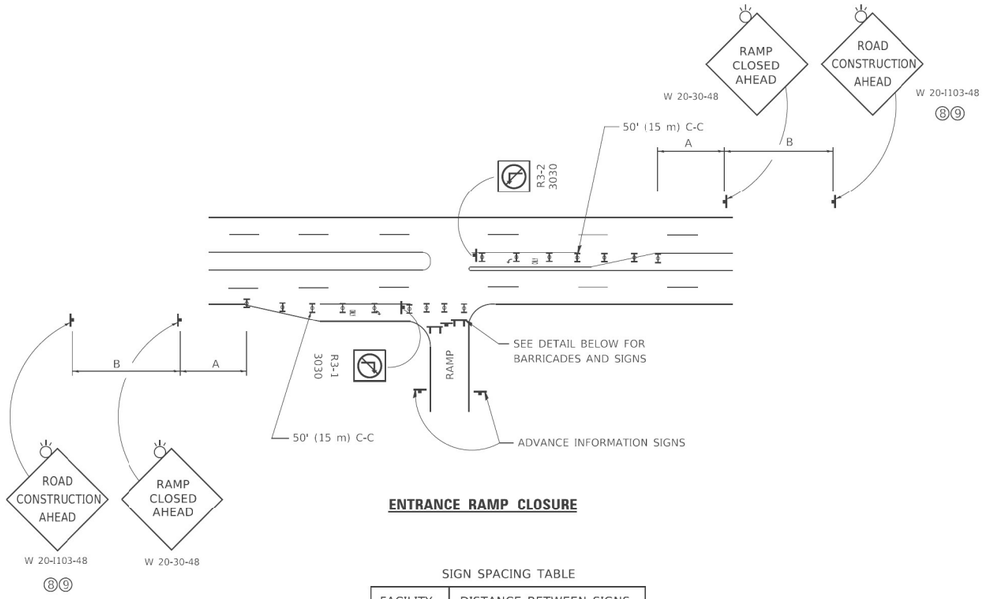
LT-50

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	USER NAME = OGORMAN	DESIGNED - VN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS
		DRAWN - VN	REVISED -		
	PLOT SCALE =	CHECKED - RP/MG	REVISED -		
	PLOT DATE = 6/23/2023	DATE - 06/07/2023	REVISED -		SCALE: / SHEET 10 OF 10 SHEETS / STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2019-071L	COOK	84	77
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		

pw:\\Projects\KS022439\CADData\CADsheets\ltr901.dgn

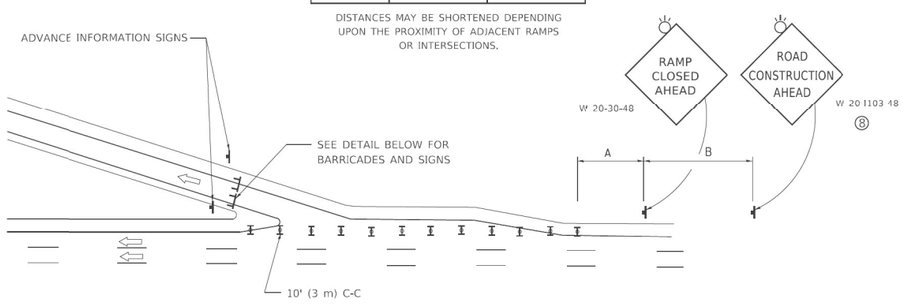


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.

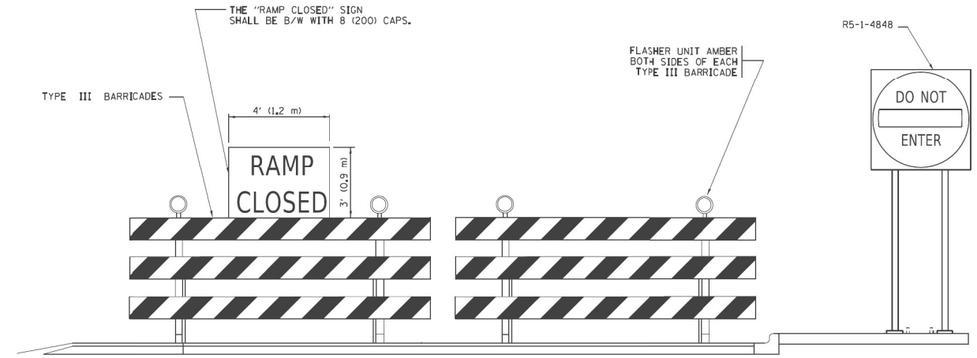


EXIT RAMP CLOSURE

SYMBOLS

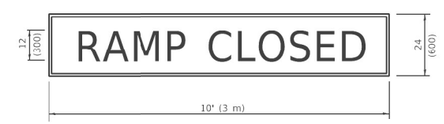
TYPE II BARRICADE OR DRUM

TYPE III BARRICADE WITH 2 FLASHING LIGHTS



DETAIL FOR REQUIRED BARRICADES & SIGNS

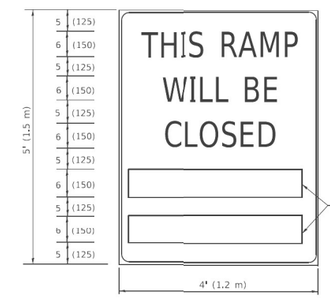
RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY
E MOD FONT
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND

½ (12) BORDER

E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

1. CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
2. VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
3. A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEEDED BY A W20-7 FLAGGER WARNING SIGN.
4. ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
5. THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
7. THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH
8. ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
9. ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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	DRAWN -	REVISED - S.P.B._12-09	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - M.D._06-13	
PLOT DATE = 3/4/2019	DATE - 02-83	REVISED - M.D._01-18	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ENTRANCE_AND_EXIT_RAMP CLOSURE_DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-08	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

t08.dgn 3/4/2019 10:22:32 AM User=footemj

pw:\\Projectwise\MER_jacobs.com\MN\Documents\C9X20608.I-94.U.S. 41\C9X20608\708cadd\703elec\Lighting Plans (50 Scale)\62D82 HMLT replacement\HIL_D162082-1-ht-standard-11.dgn

Jacobs

USER NAME = OGORMAN	DESIGNED - RAS	REVISED -	
	DRAWN - MPK	REVISED -	
PLOT SCALE =	CHECKED - MMK	REVISED -	
PLOT DATE = 6/23/2023	DATE - 01/31/2023	REVISED -	

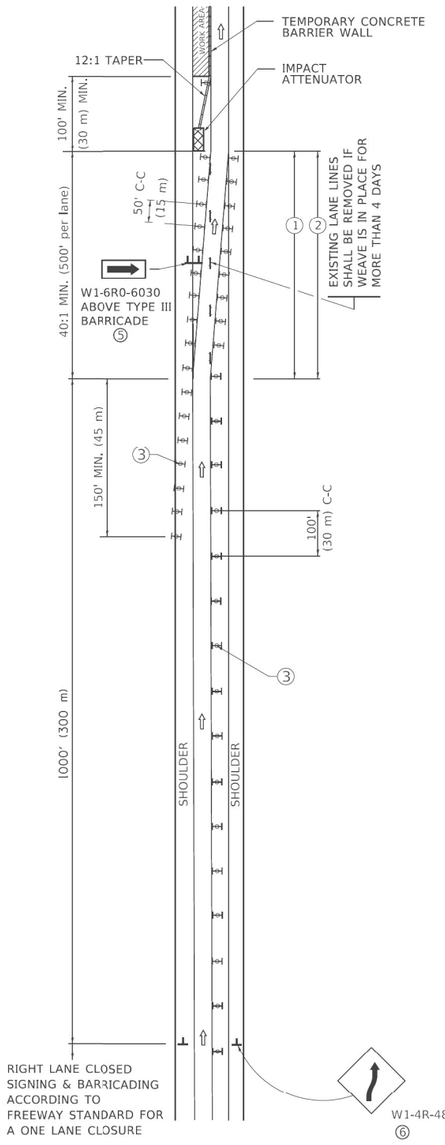
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARDS

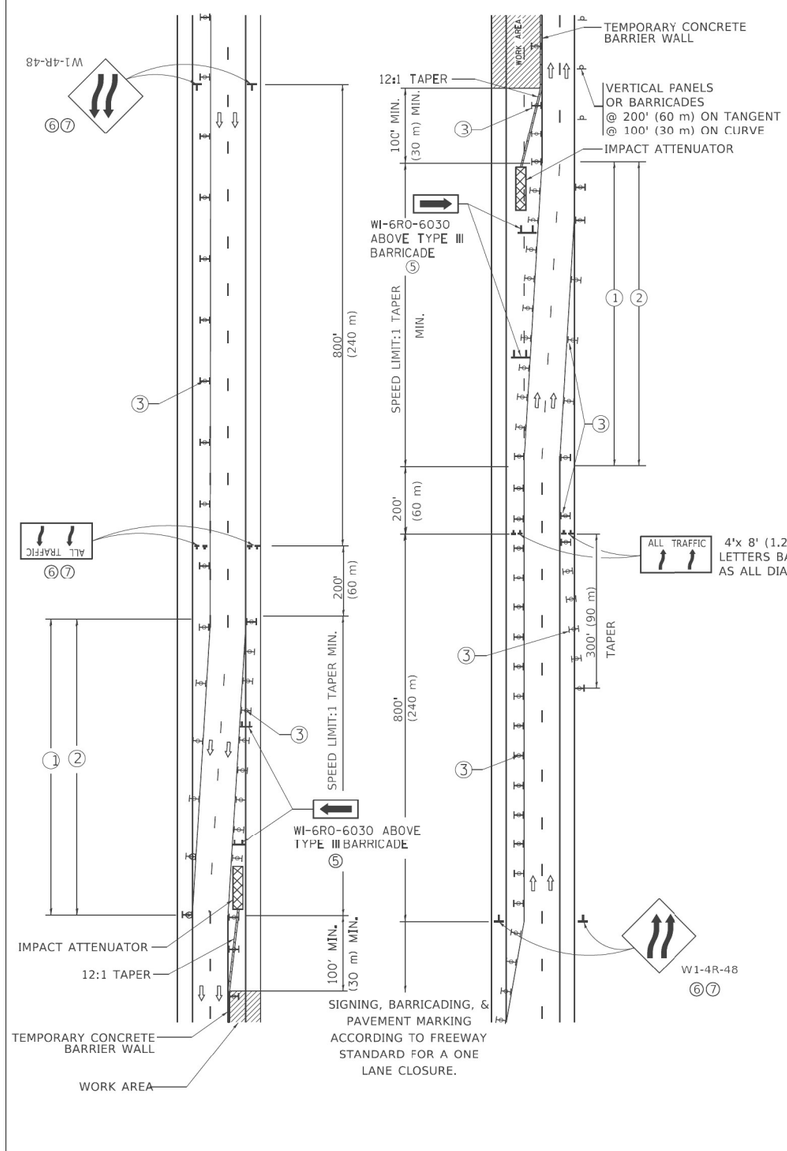
SCALE: NTS | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-94	2016-071L	COOK	84	78
		CONTRACT NO. 62D82		
	ILLINOIS FED. AID PROJECT			

SINGLE LANE WEAVE



MULTI–LANE WEAVE



GENERAL NOTES:

1. EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
2. CONTINOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
3. PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
4. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
5. TYPE III BARRICADES MAY BE OMMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
6. WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
7. THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

ALL TRAFFIC — 4'x 8' (1.2 m x 2.4 m); 1 (25) BORDER; 10 (250) CAPITAL LETTERS BACKGROUND SHEETING SHALL BE THE SAME AS ALL DIAMOND SHAPED CONSTRUCTION SIGNS.

SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATOR
- W24-1-48

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

USER NAME = footemj	DESIGNED - D.W.S.	REVISED - J.A.F. 02-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI–LANE WEAVE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED - S.P.B. 01-07							
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - S.P.B. 12-09				TC-09	CONTRACT NO.		
PLOT DATE = 3/4/2019	DATE - 02-87	REVISED - M.D. 06-13		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			

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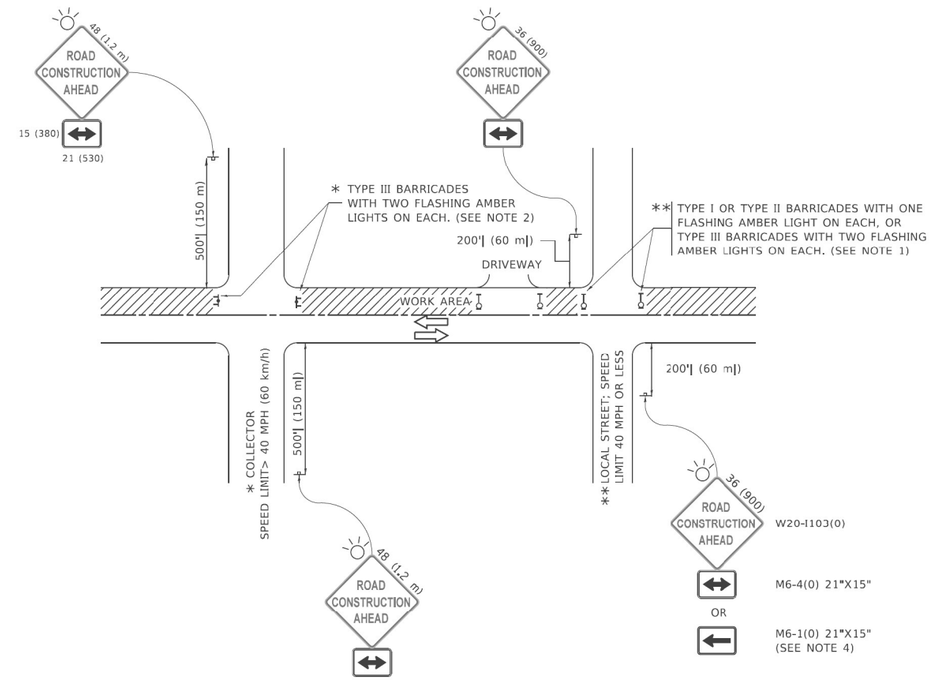
tc49.dgn 3/4/2019 10:24:46 AM User=footemj

Jacobs	USER NAME = OGORMAN	DESIGNED - RAS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 STANDARDS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - MPK	REVISED -			I-94	2016-071L	COOK	84 / 79
	PLOT SCALE =	CHECKED - MMK	REVISED -					CONTRACT NO. 62D82	
	PLOT DATE = 6/23/2023	DATE - 01/31/2023	REVISED -		SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT		

pw:\\ProjectWise\MER_jacobs.com\NA\Documents\C9X20600_I-94_U.S. 41\C9X20600\708cadd\703elect\Lighting Plans (50 Scale)\62D82 HMLT replacement\H12_D162D82-1-sht-standard-l2.dgn



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.

4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.

6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.

7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

MODEL: Default
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USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96	
	DRAWN -	REVISED - T. RAMMACHER 01-06-00	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13	
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-10	CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

tc10.dgn 3/4/2019 10:27:07 AM User=footemj

Jacobs

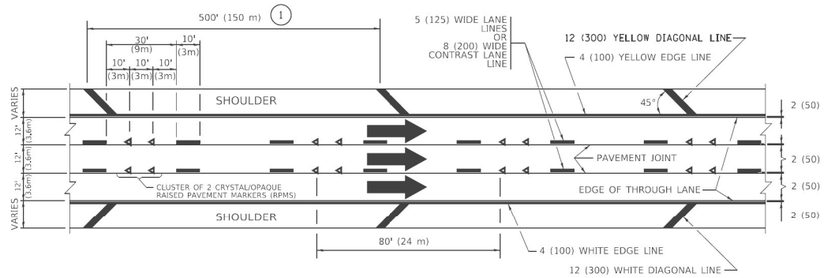
USER NAME = OGORMAN	DESIGNED - RAS	REVISED -	
	DRAWN - MPK	REVISED -	
PLOT SCALE =	CHECKED - MMK	REVISED -	
PLOT DATE = 6/23/2023	DATE - 01/31/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARDS

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

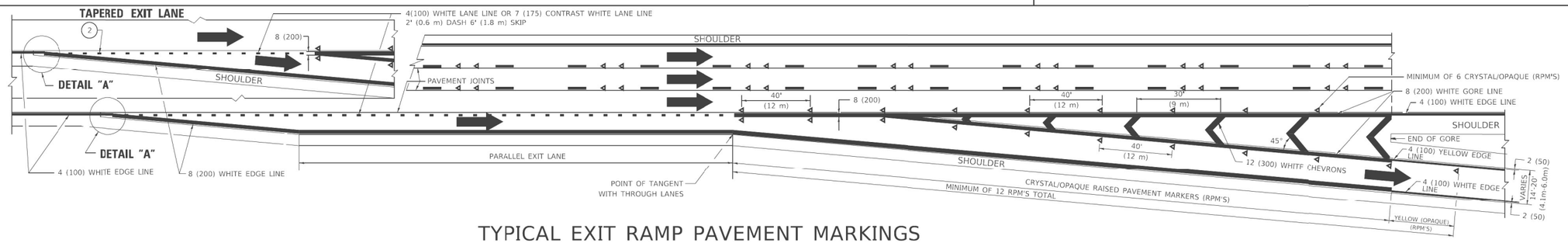
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-94	2016-071L	COOK	84	80
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		



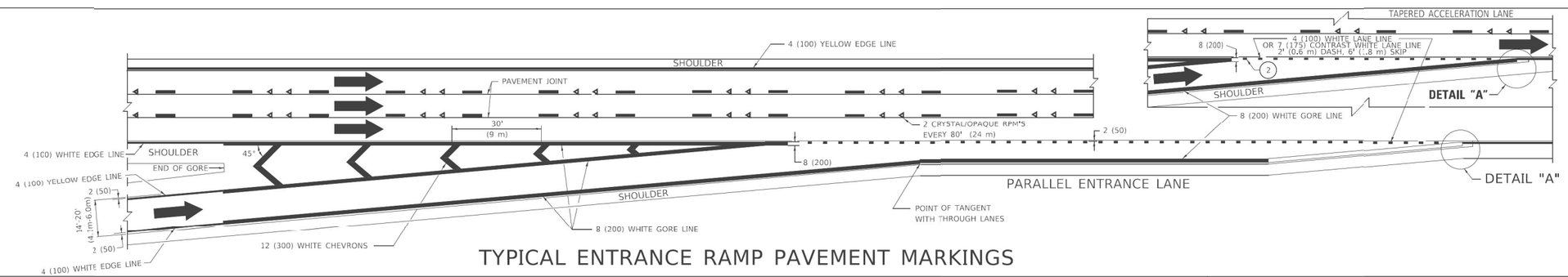
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

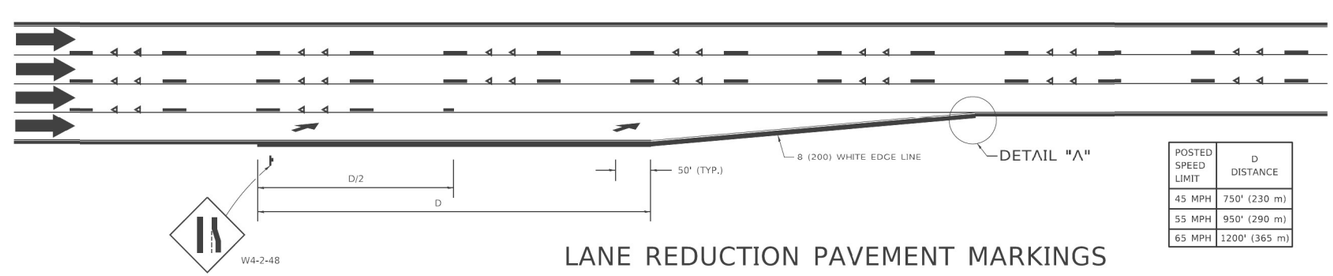
1. THERMOPLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON HMA PAVEMENTS.
2. POLYUREA OR MODIFIED URETHANE PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON PCC PAVEMENTS.
3. PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, INLAID OR GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENTS.
4. CONTRAST PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON PCC PAVEMENT.



TYPICAL EXIT RAMP PAVEMENT MARKINGS

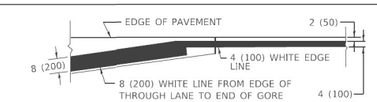


TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



LANE REDUCTION PAVEMENT MARKINGS

POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)



DETAIL "A"

NOTES:

1. THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
2. 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.

MODEL: Default
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USER NAME = footemj	DESIGNED - D.W.S.	REVISED - S.P.B. 01-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED - S.P.B. 01-10	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - M.D. 05-13	
PLOT DATE = 3/4/2019	DATE - 01-90	REVISED - M.D. 09-17	

MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS

SCALE: NONE | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-12	CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

Jacobs

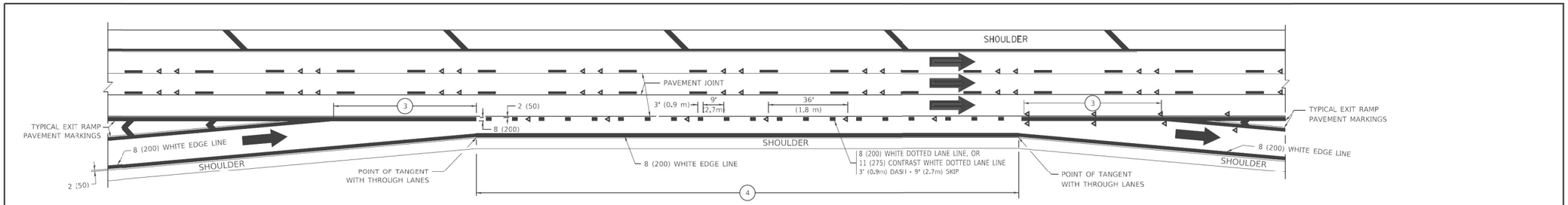
USER NAME = OGORMAN	DESIGNED - RAS	REVISED -
	DRAWN - MPK	REVISED -
PLOT SCALE =	CHECKED - MMK	REVISED -
PLOT DATE = 6/23/2023	DATE - 01/31/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

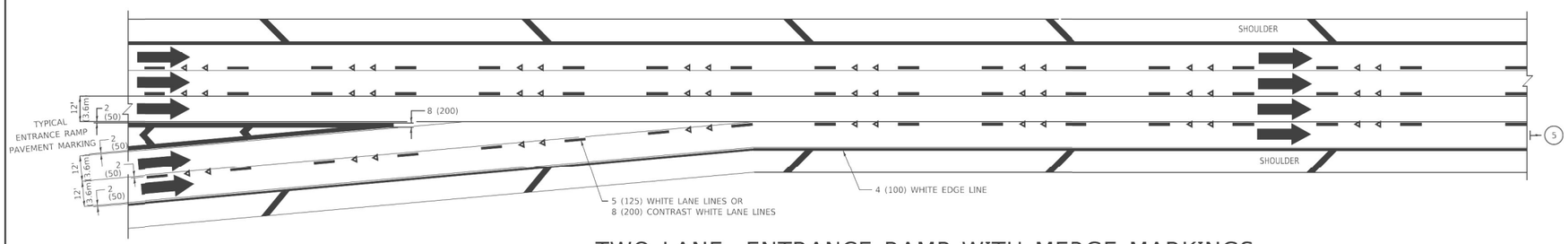
DISTRICT 1 STANDARDS

SCALE: NTS | SHEET 1 OF 2 SHEETS | STA. | TO STA.

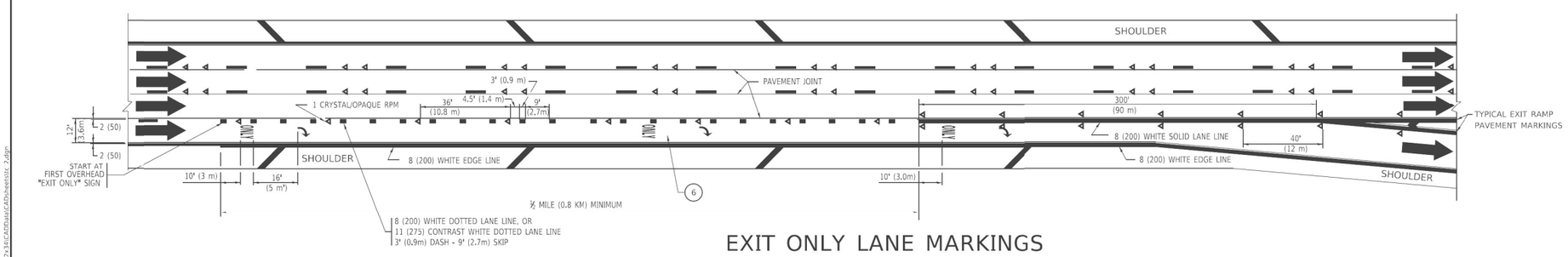
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-94	2016-071L	COOK	84	81
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		



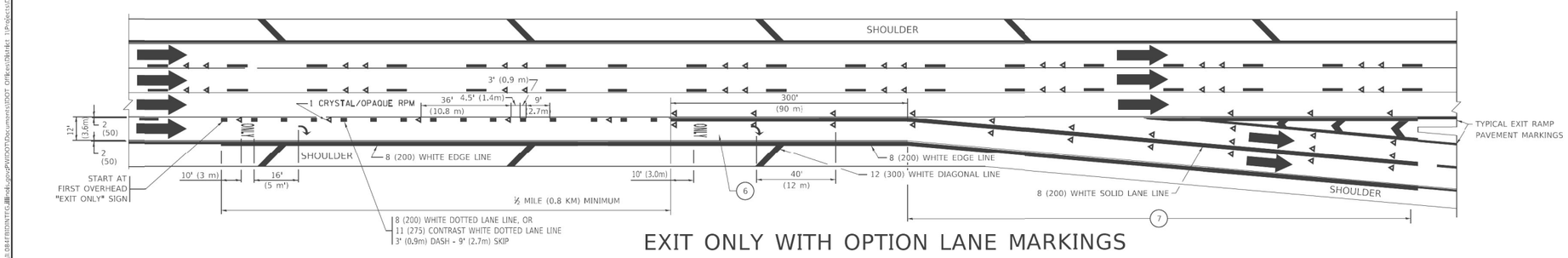
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

NOTES:

3. OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
4. 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
5. FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
6. ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED..
7. CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

MODEL: Default
FILE NAME: pw:\\jacobsUSEAMER.jacobs.com:NA1\Documents\C9X20620_I-94_US_41\C9X20620\700.acdd\703elect\Lighting Plans (50 Scale)\62D82 HMLT replacement\IH15.D162D82-1-sht-standard-15.dgn

USER NAME = {username}	DESIGNED - D.W.S.	REVISED - J.A.F. 02-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED - S.P.B. 01-07							
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - S.P.B. 01-10			TC-12		CONTRACT NO.		
PLOT DATE = 3/4/2019	DATE - 01-90	REVISED - M.D. 09-17		SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

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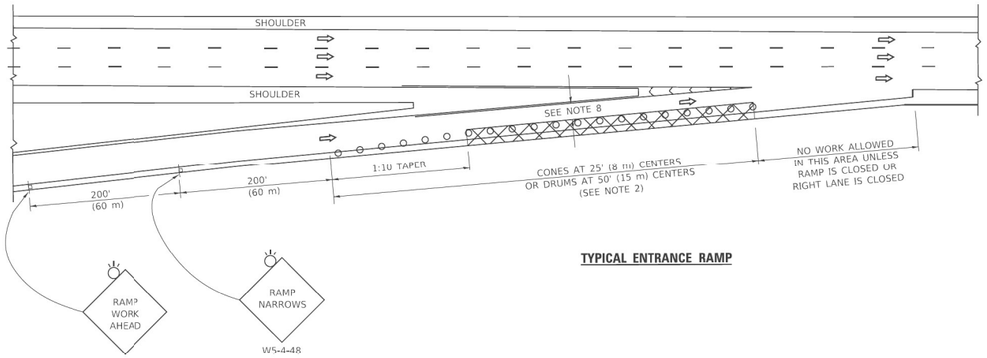
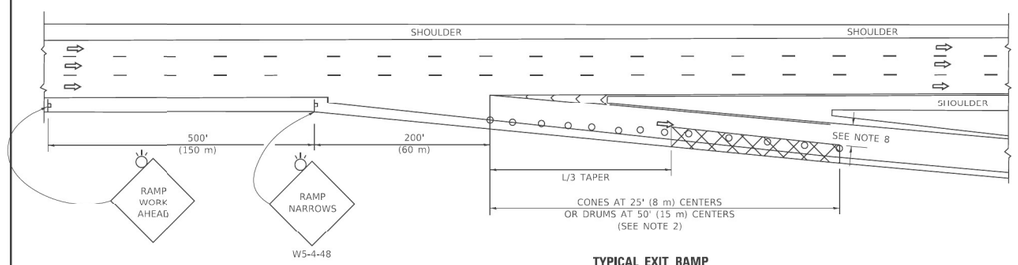
USER NAME = OGORMAN	DESIGNED - RAS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 STANDARDS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - MPK	REVISED -			I-94	2016-07IL	COOK	84	82
PLOT SCALE =	CHECKED - MMK	REVISED -					CONTRACT NO. 62D82		
PLOT DATE = 6/23/2023	DATE - 01/31/2023	REVISED -		SCALE: NTS SHEET 2 OF 2 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

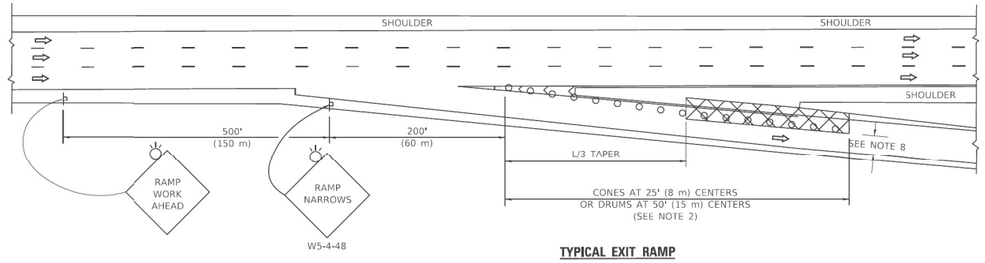
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP

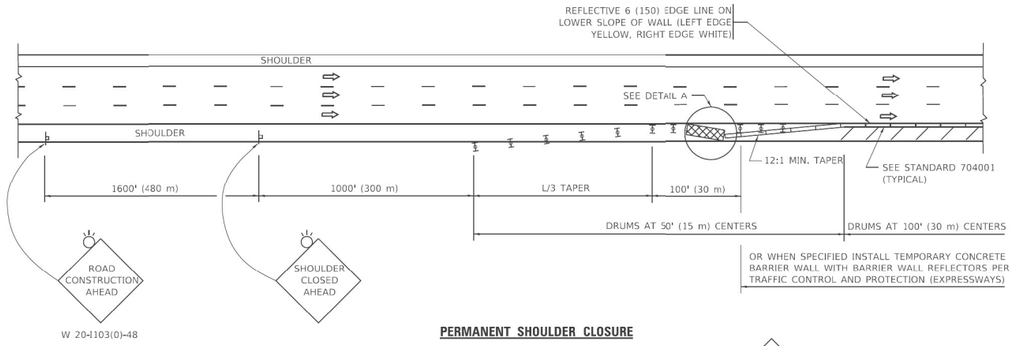


TYPICAL EXIT RAMP

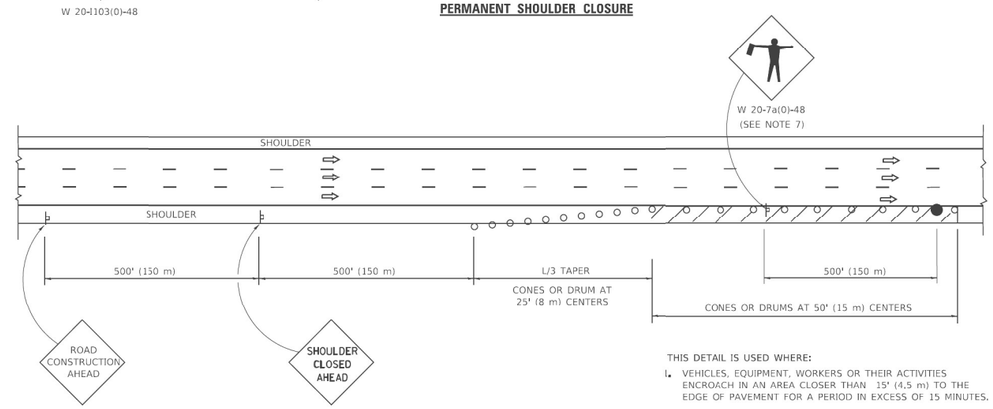


TYPICAL EXIT RAMP

SHOULDER CLOSURE DETAILS



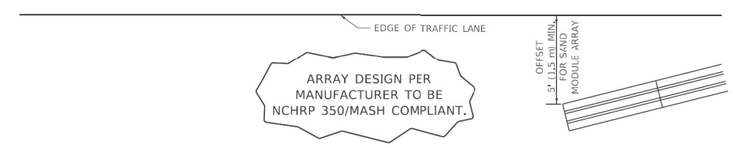
PERMANENT SHOULDER CLOSURE



THIS DETAIL IS USED WHERE:

1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.

DAYTIME SHOULDER CLOSURE



DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES:

1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS	
45 mph (80 km/h) OR GREATER:	METRIC	ENGLISH
	L=0.65(WXS)	L=(WXS)

W = WIDTH OF OFFSET IN FEET (METERS)
S = NORMAL POSTED SPEED MPH (KM/H)

2. TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTICLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.
5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
   a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
   b. THE WORK ACTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.

   THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
   16' MIN. WIDTH CURVE SECTION.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

MODEL: Default
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USER NAME = footemj	DESIGNED -	REVISED - S.P.B. 01-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN - D.W.S.	REVISED - S.P.B. 12-09			TC-17 / CONTRACT NO.
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - M.D. 06-13			ILLINOIS / FED. AID PROJECT
PLOT DATE = 3/4/2019	DATE - 11-96	REVISED - M.D. 01-18		SCALE: NONE / SHEET 1 OF 1 SHEETS / STA. / TO STA.	

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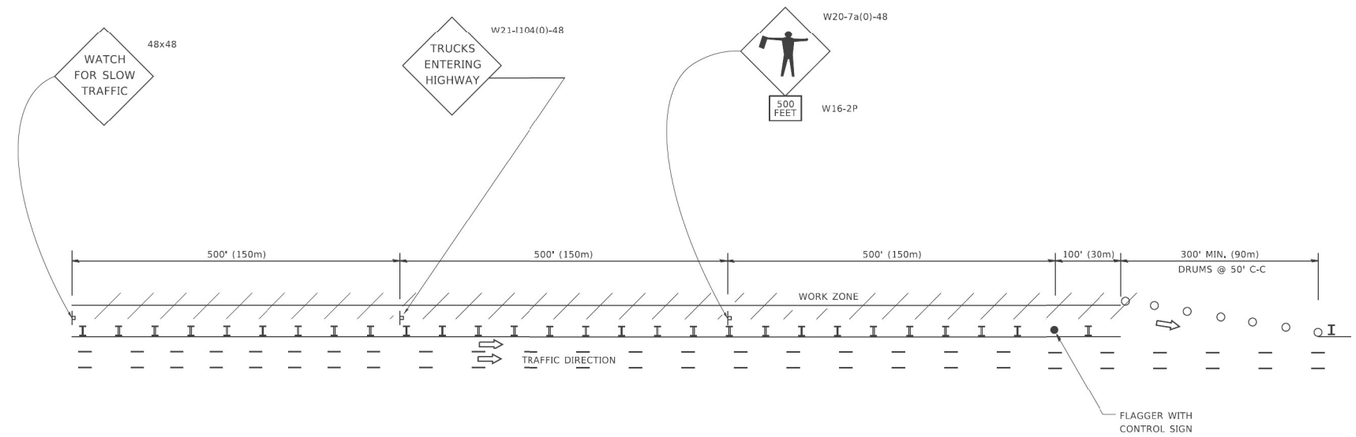
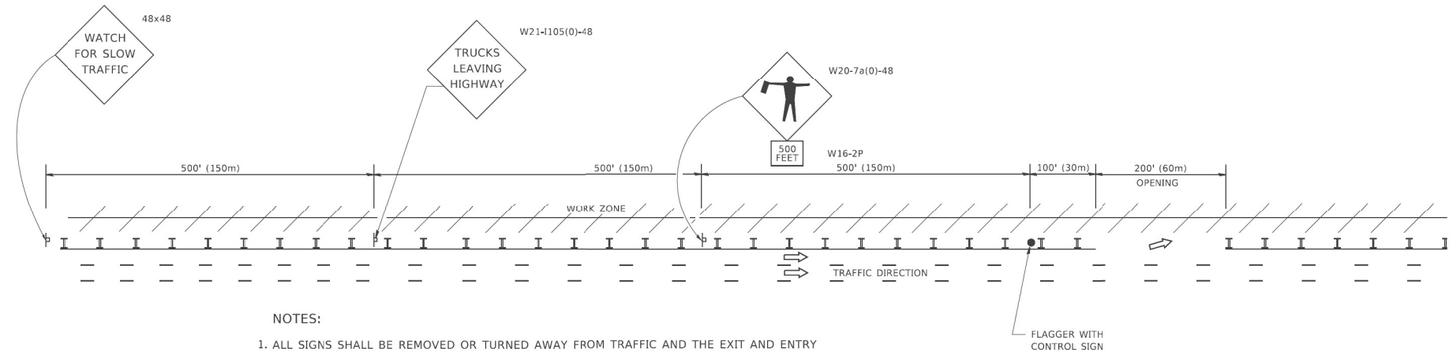
USER NAME = OGORMAN	DESIGNED - RAS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 STANDARDS	F.A. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN - MPK	REVISED -			I-94 / 2016-071L / COOK / 84 / 83
PLOT SCALE =	CHECKED - MMK	REVISED -			CONTRACT NO. 62D82
PLOT DATE = 6/23/2023	DATE - 01/31/2023	REVISED -		SCALE: NTS / SHEET 1 OF 1 SHEETS / STA. / TO STA.	ILLINOIS FED. AID PROJECT

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. ALL SIGNS SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMPS.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS
5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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USER NAME = footemj	DESIGNED -	REVISED -	J.A.F. 02-06
	DRAWN -	REVISED -	S.P.B. 01-07
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	S.P.B. 12-09
PLOT DATE = 3/4/2019	DATE -	REVISED -	M.D.06-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FREEWAY /EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ON FREEWAYS /EXPRESSWAYS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-18	CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

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	DRAWN - MPK	REVISED -	
PLOT SCALE =	CHECKED - MMK	REVISED -	
PLOT DATE = 6/23/2023	DATE - 01/31/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARDS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-94	2016-071L	COOK	84	84
		CONTRACT NO. 62D82		
		ILLINOIS FED. AID PROJECT		