

DESIGN DESIGNATION

02-27-2026 LETTING ITEM 008

US 41 - ACCESS CONTROLLED HIGHWAY

TRAFFIC VOLUME

US 41 (SKOKIE HIGHWAY) - 77,100 (2022 AADT)


POSTED SPEED LIMIT

US 41 - 55 MPH

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

IMPROVEMENTS LOCATED IN THE CITY OF HIGHLAND PARK

JACOBS ENGINEERING, INC.
 CHAD HAMMERL P.E.
 IL. LIC. NO. 062-054929
 EXPIRES 11-30-2027



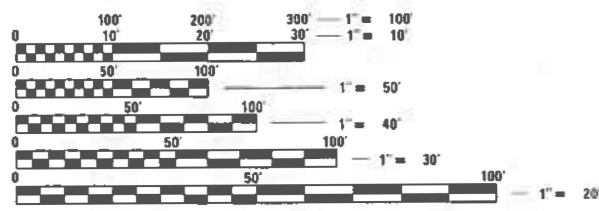
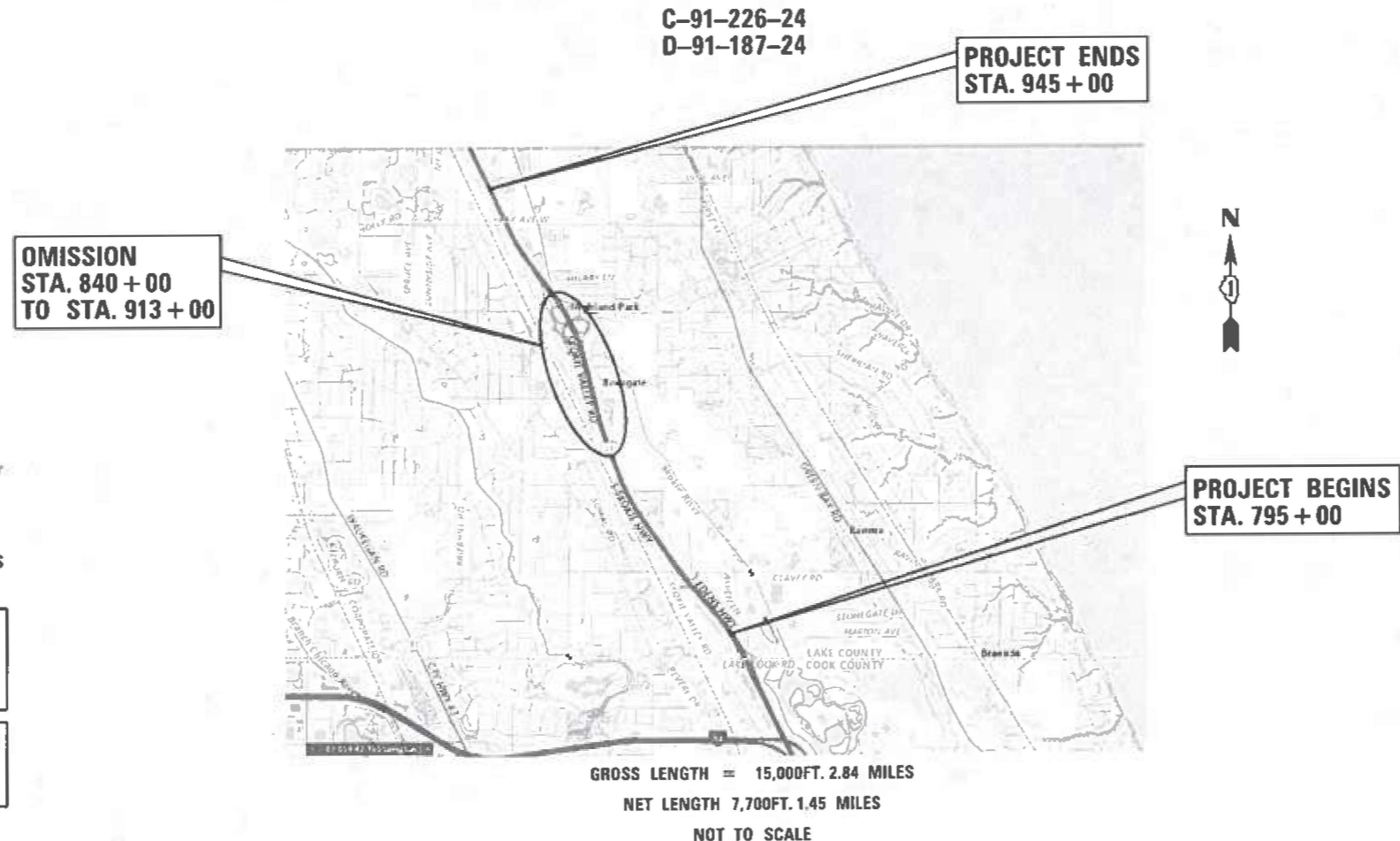
CHAD R. HAMMERL
 SIGNATURE:
 DECEMBER 5, 2025
 DATE:
 DRAWINGS: 01-50

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED
 HIGHWAY PLANS

US 41 (SKOKIE HWY) AT
 PARK AVE W & CLAVEY RD
 FAP ROUTE 346
 SECTION 2024-960-LT
 PROJECT NHPP GX17(626)
 LED LIGHTING
 LAKE COUNTY

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
LIS-41	2024-960-LT	LAKE	50	1
		ILLINOIS	CONTRACT NO. 62W78	



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. 62W78

Jacobs
 525 W. MONROE SUITE 1600
 CHICAGO, ILLINOIS 60661
 TELEPHONE: 312.251.3000
 ILLINOIS PROFESSIONAL DESIGN FIRM
 REGISTRATION NO. 184.008942

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED Dec 9 2025
Joe J. J...
 REGIONAL ENGINEER

January 23 2026
Scott A. E...
 ENGINEER OF DESIGN AND ENVIRONMENT

January 23 2026
Quarry 5
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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GENERAL NOTES

- 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 CABLES.
- 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.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO PERFORM WORK.
- 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.
- 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.
- 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.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 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).
- 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.
- THE CONTRACTOR SHALL CONTACT THE IDOT EXPRESSWAY TRAFFIC CONTROL SUPERVISOR DISTRICT ONE CARLOS MUNOZ AT CARLOS.MUNOZ@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING OF WORK.
- 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.
- ALL DAMAGED SURFACES SUCH AS PAVEMENT, SHOULDERS, MEDIANS, AND BARRIER WALLS SHALL BE REPLACED IN KIND.
- THE CONTRACTOR SHALL AVOID TRENCHING THROUGH WETLAND AREAS, ROADSIDE DITCHES, AND RETENTION PONDS AND SHALL NOT IMPACT WETLAND AREAS. WETLANDS SHALL BE PROTECTED FROM ANY WORK WITHIN THE IMMEDIATE VICINITY OF THE WETLAND LIMITS AND NO EXTRA COMPENSATION SHALL BE ALLOWED. CONTRACTOR SHALL REVIEW WORK AREAS WITH ENGINEER PRIOR TO COMMENCEMENT OF WORK. CONTACT VANESSA RUIZ, ENVIRONMENTAL UNIT HEAD AT (847) 705-4627 WITH ANY QUESTIONS.

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

000001-09	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701106-02	OFF-RD OPERATIONS MULTILANE, LESS THAN 15' TO EOP
701400-12	OFF-RD OPERATIONS MULTILANE, MORE THAN 15' AWAY
701401-13	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, FREEWAY/EXPRESSWAY
701428-01	LANE CLOSURE, MULTILANE, AT FREEWAY ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45MPH
701901-11	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY TRAFFIC CONTROL DEVICES

IDOT HIGHWAY STANDARDS

TC-08	ENTRANCE AND EXIT RAMP CLOSURE DETAILS
TC-09	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTILANE WEAVE
TC-17	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
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-402	ALUMINUM LIGHT POLE 35" MOUNTING HEIGHT
BE-701	LUMINAIRE SAFETY CABLE ASSEMBLY
BE-702	MISC. ELECTRICAL DETAILS SHEET A

IND-01

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PLOT DATE = 1/12/2026	DATE - 12/05/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	2
CONTRACT NO. 62W78				
ILLINOIS FED. AID PROJECT				

REV-SEP

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE							
				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE						
				LAKE 0021	LAKE 0044						
				LIGHTING	OTHER / SIGNAGE						
20101000	TEMPORARY FENCE	FOOT	930	-	930						
20200100	EARTH EXCAVATION	CU YD	34.44	-	34.44						
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	34.44	-	34.44						
21101645	TOPSOIL FURNISH AND PLACE, 12"	SQ YD	206.7	-	206.7						
21101685	TOPSOIL FURNISH AND PLACE, 24"	SQ YD	5.7	-	5.7						
25000210	SEEDING, CLASS 2A	ACRE	0.25	-	0.25						
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	5.5	-	5.50						
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	5.5	-	5.50						
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	5.5	-	5.50						
25100115	MULCH, METHOD 2	ACRE	0.50	-	0.50						
25100630	EROSION CONTROL BLANKET	SQ YD	23	-	23						
28000400	PERIMETER EROSION BARRIER	FOOT	2,608	-	2,608						
67100100	MOBILIZATION	L SUM	1	-	1						
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	-	1						
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	4	-	4						

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SOQ-01



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	3
CONTRACT NO. 62W78			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE			
				LAKE 0021	LAKE 0044			
				LIGHTING	OTHER / SIGNAGE			
X2010510	CLEARING AND GRUBBING	L SUM	1	-	1			
X6431110	REMOVE ATTENUATOR BASE	EACH	1	-	1			
X6431120	REMOVE IMPACT ATTENUATOR SAND MODULE	EACH	12	-	12			
X6700410	ENGINEER'S FIELD OFFICE, TYPE A (SPECIAL)	CAL MO	18	-	18			
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1		1			
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	-	1			
X8000003	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12	12	-			
X8100863	INTERCEPT EXISTING CONDUIT	EACH	1	1	-			
X8210405	LUMINAIRE SHIELD	EACH	9	9				
X8420111	REMOVAL OF UNDERPASS LIGHTING UNIT, NO SALVAGE	EACH	12	12	-			
X8420500	REMOVAL OF LIGHT TOWER, SALVAGE	EACH	5	5	-			
X8420507	REMOVAL OF LIGHTING ARM, SALVAGE	EACH	58	58	-			
X8420510	REMOVAL OF TOWER FOUNDATION	EACH	5	5	-			
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	-	1			
Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	151	151	-			

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SOQ-04



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	6
CONTRACT NO. 62W78				
ILLINOIS		FED. AID PROJECT		

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE							
				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE						
				LAKE 0021	LAKE 0044						
				LIGHTING	OTHER / SIGNAGE						
X8380074	LIGHT POLE BREAKAWAY DEVICE	EACH	37	37	0						
X8040106	ELECTRIC SERVICE INSTALLATION AND CONNECTION	EACH	1	1	0						
∅ Z0076600	TRAINEES	HOUR	2000	2000							
∅ Z0076600	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	2000	2000							

∅ 0042 SOQ-05

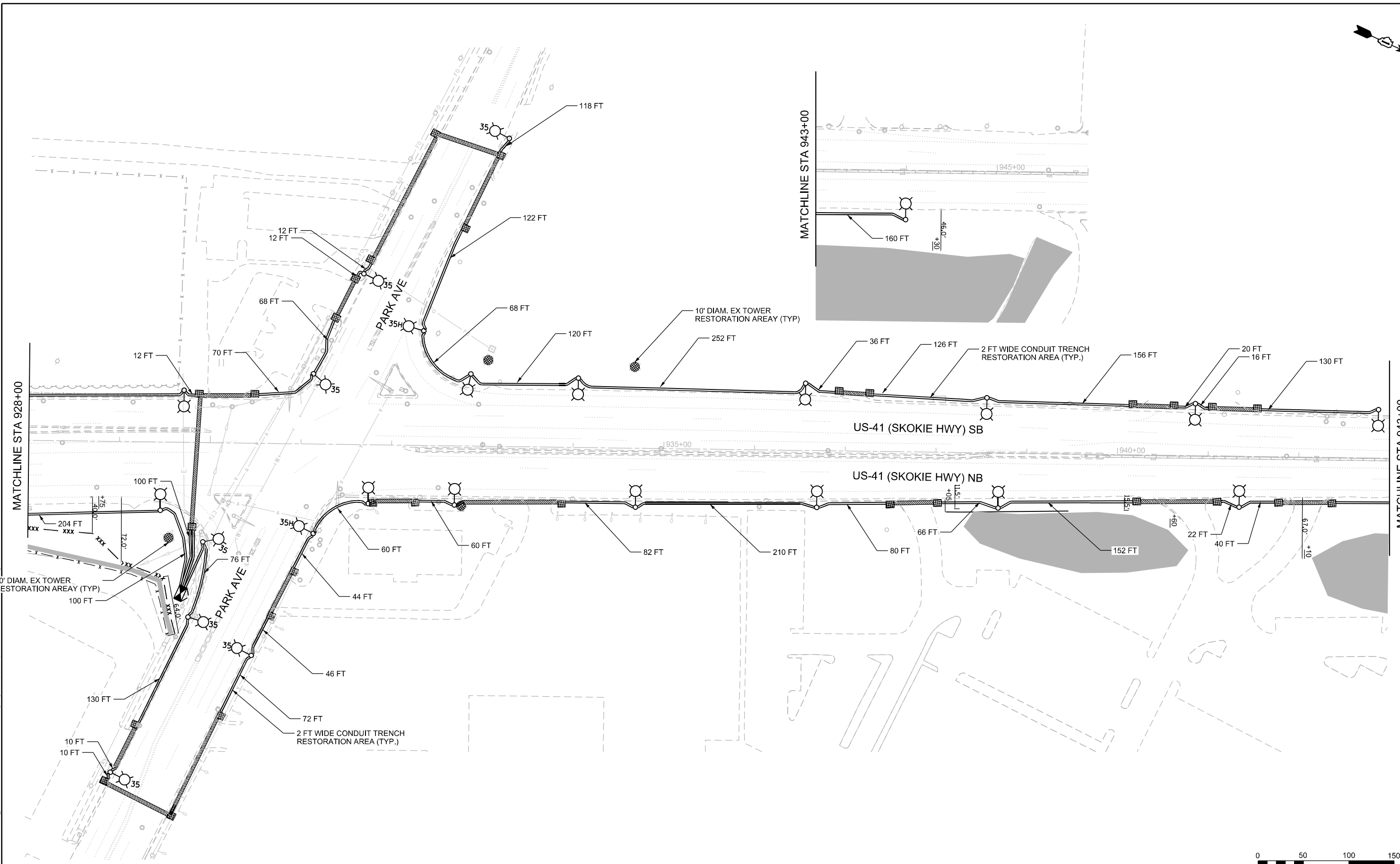


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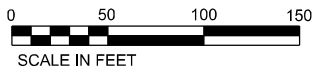
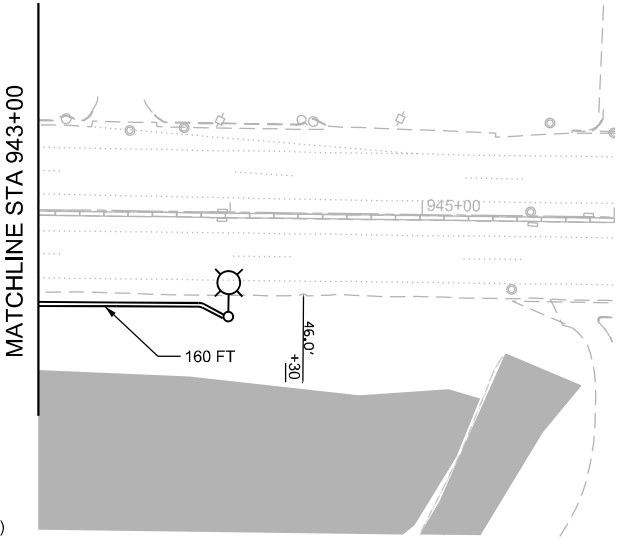
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE: NTS	SHEET 5 OF 5 SHEETS	STA.	TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	7
CONTRACT NO. 62W78			ILLINOIS FED. AID PROJECT	



10' DIAM. EX TOWER RESTORATION AREA (TYP.)
204 FT
XXX
72.0'
XXX
XXX
64.0'



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**US 41 SMART HIGHWAY
CIVIL RESTORATION PLANS**

SCALE: 1" = 50'

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	10
CONTRACT NO. 62W78			ILLINOIS FED. AID PROJECT	

SHEET 3 OF 3 SHEETS
STA. 928+00 TO STA. 946+00

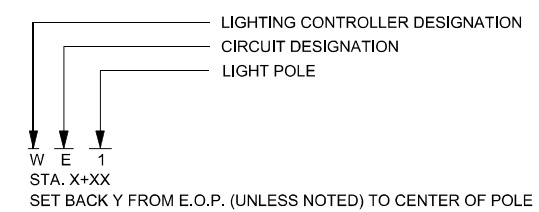
CIV-03

LIGHTING LEGEND

	EXISTING LIGHTING UNIT TO REMAIN
	EXISTING LIGHTING UNIT TO REMAIN, LUMINAIRE TO BE REMOVED AND SALVAGED. REMOVE POLE WIRING AND SHIELD (WHERE PRESENT).
	EXISTING LIGHT POLE AND FOUNDATION TO REMAIN, ARMS, LUMINAIRES AND LIGHT CABLE TO BE REMOVED. LUMINAIRES AND ARMS TO BE SALVAGED
	EXISTING LIGHTING UNIT, FOUNDATION AND LUMINAIRE TO BE REMOVED. LIGHTING UNIT AND LUMINAIRE TO BE SALVAGED.
	EXISTING LIGHTING UNIT. INSTALL NEW LED LUMINAIRE (OUTPUT G), LUMINAIRE SAFETY CABLE ASSEMBLY AND INSTALL POLE GREEN GROUND WIRE.
	EXISTING LIGHTING UNIT. INSTALL NEW LED LUMINAIRE (OUTPUT G), LUMINAIRE SAFETY CABLE ASSEMBLY AND INSTALL POLE GREEN GROUND WIRE. 'S' DENOTES A LUMINAIRE SHIELD IS TO BE INSTALLED
	EXISTING TWIN ARM LIGHT POLE ON MEDIAN BARRIER WALL. INSTALL NEW 6FT DUAL MAST ARMS, NEW LED LUMINAIRES (OUTPUT G) AND LUMINAIRE SAFETY CABLE ASSEMBLY. INSTALL NEW POLE WIRE AND FUSE KITS
	PROPOSED LIGHTING UNIT 47.5 FT. MH ALUMINIUM POLE, 15 FT. MAST ARM, LED LUMINAIRE (OUTPUT H), IES TYPE II, 240V, ON NEW HELIX FOUNDATION AND TRANSFORMER BASE OR COUPLINGS
	PROPOSED LIGHTING UNIT 35 FT. MH ALUMINIUM POLE, 15 FT. MAST ARM, LED LUMINAIRE (OUTPUT G), IES TYPE II, 240V, ON NEW HELIX FOUNDATION AND TRANSFORMER BASE OR COUPLINGS
	PROPOSED LIGHTING UNIT 35 FT. MH ALUMINIUM POLE, 15 FT. MAST ARM, LED LUMINAIRE (OUTPUT H), IES TYPE II, 240V, ON NEW HELIX FOUNDATION AND TRANSFORMER BASE OR COUPLINGS
	EXISTING UNDERPASS LUMINAIRE TO BE REMOVED
	PROPOSED UNDERPASS LUMINAIRE, LED MOUNTING TYPE AS NOTED OUTPUT DESIGNATION E (UNLESS NOTED OTHERWISE)
	EXISTING HIGH MAST TOWER AND FOUNDATION TO BE REMOVED
	EXISTING JUNCTION BOX TO REMAIN
	EXISTING HANDHOLE TO REMAIN
	PROPOSED JUNCTION BOX 18" X 18" X 8" ATTACHED TO STRUCTURE
	PROPOSED JUNCTION BOX 12" X 10" X 6" ATTACHED TO STRUCTURE
	PROPOSED JUNCTION BOX 6" X 6" X 4" ATTACHED TO STRUCTURE

	EXISTING LIGHTING CONTROLLER
	EXISTING LIGHTING CONTROLLER TO BE REMOVED
	PROPOSED LIGHTING CONTROLLER
	EXISTING ELECTRIC SERVICE INSTALLATION
	PROPOSED ELECTRIC SERVICE INSTALLATION
	EXISTING CABLE TO REMAIN
	EXISTING CABLE TO BE REMOVED
	EXISTING CONDUIT TO REMAIN
	PROPOSED UNDERGROUND UNIT DUCT AS NOTED ON PLANS
	PROPOSED UNDERGROUND CONDUIT
	GROUND ROD 5/8" DIA. X 10'

LIGHT POLE DESIGNATION



LIGHTING BILL OF MATERIALS

PAY ITEM DESCRIPTION	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1,274
CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	425
CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	36
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	8
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	4
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	2
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	170
UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	6,079
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1,520
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C 350MCM	FOOT	35
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	121
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	30
LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION E	EACH	8
LIGHT POLE, ALUMINUM, 35 FT. M.H., 15 FT. MAST ARM	EACH	9
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM	EACH	28
LIGHT POLE FOUNDATION, METAL, 11 1/2" BOLT CIRCLE, 8 5/8" X 6"	EACH	9
LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10" X 8"	EACH	28
REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	1
REMOVAL OF POLE FOUNDATION	EACH	1
REMOVAL OF LIGHTING CONTROLLER	EACH	1
REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1
REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,643
REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE	EACH	26
REMOVAL OF LUMINAIRE, SALVAGE	EACH	115
LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL), RADIO SCADA, FIBER OPTIC	EACH	1
REMOVAL OF TRANSFORMER BASE, SALVAGE	EACH	1
6 FT DUAL MAST ARMS, ALUMINUM, 180 DEGREES APART	EACH	29
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12
INTERCEPT EXISTING CONDUIT	EACH	1
LUMINAIRE SHIELD	EACH	9
REMOVAL OF UNDERPASS LIGHTING UNIT, NO SALVAGE	EACH	12
REMOVAL OF LIGHT TOWER, SALVAGE	EACH	5
REMOVAL OF LIGHTING ARM, SALVAGE	EACH	58
REMOVAL OF TOWER FOUNDATION	EACH	5
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	151
LIGHT POLE BREAKAWAY DEVICE	EACH	37
ELECTRIC SERVICE INSTALLATION AND CONNECTION	EACH	1

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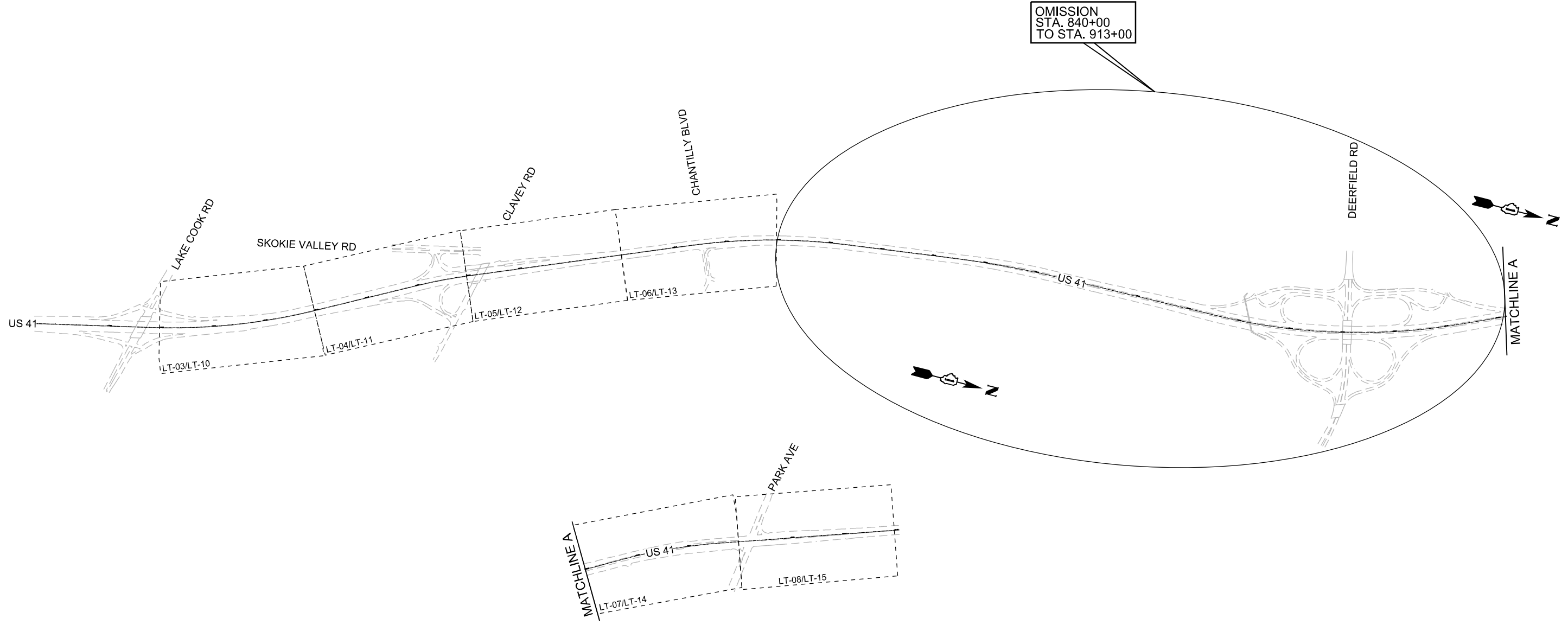
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING
GENERAL NOTES & LEGEND

SCALE: NTS SHEET 1 OF 20 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	11
CONTRACT NO. 62W78			ILLINOIS FED. AID PROJECT	

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PLOT DATE = 12/5/2025	DATE - 12/05/2025	REVISED -

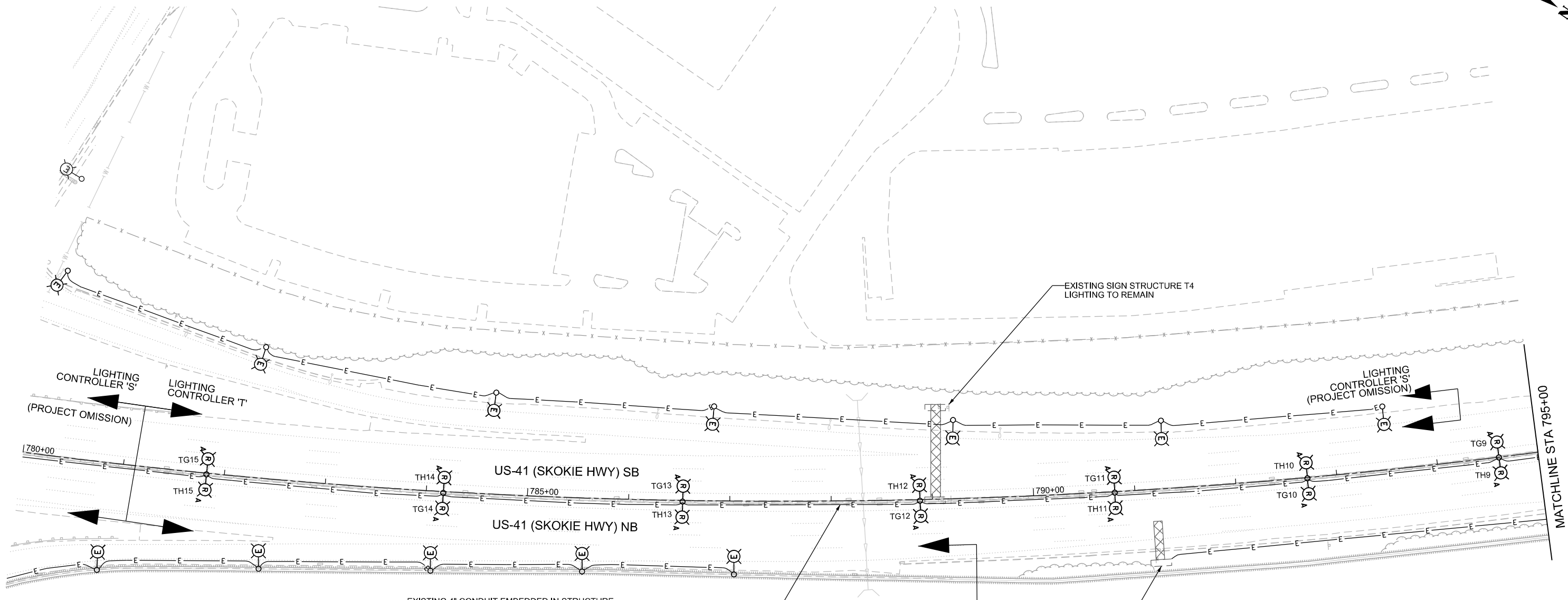
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LIGHTING
SHEET LAYOUT MAP**

SCALE: 1" = 500' SHEET 2 OF 20 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	12
			CONTRACT NO. 62W78	
		ILLINOIS FED. AID PROJECT		

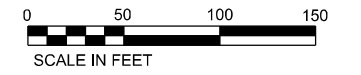
LT-02



EXISTING 4" CONDUIT EMBEDDED IN STRUCTURE
 EXISTING UNIT DUCT (3-1/8 NO. 4, 1 1/4" DIA.) WITH NO. 6 BARE GROUND WIRE
 (TO REMAIN - TYP.)

MAINTAIN EXISTING SIGN
 SIGN STRUCTURE LIGHTING
 (SEE NOTE 1)

- NOTES:
- SIGN STRUCTURE LIGHTING CONDUIT TO SOUTH TO BE MAINTAINED. SEE PROPOSED LIGHTING FOR CONDUIT INTERCEPT AND CONNECTION.
 - SEE SHEET LT-01 FOR GENERAL NOTES AND LEGEND.



USER NAME = ROHNC	DESIGNED - KFA	REVISED -
DRAWN - MPK	REVISIONS	REVISED -
PLOT SCALE =	CHECKED - KFA	REVISED -
PLOT DATE = 12/5/2025	DATE - 12/05/2025	REVISED -

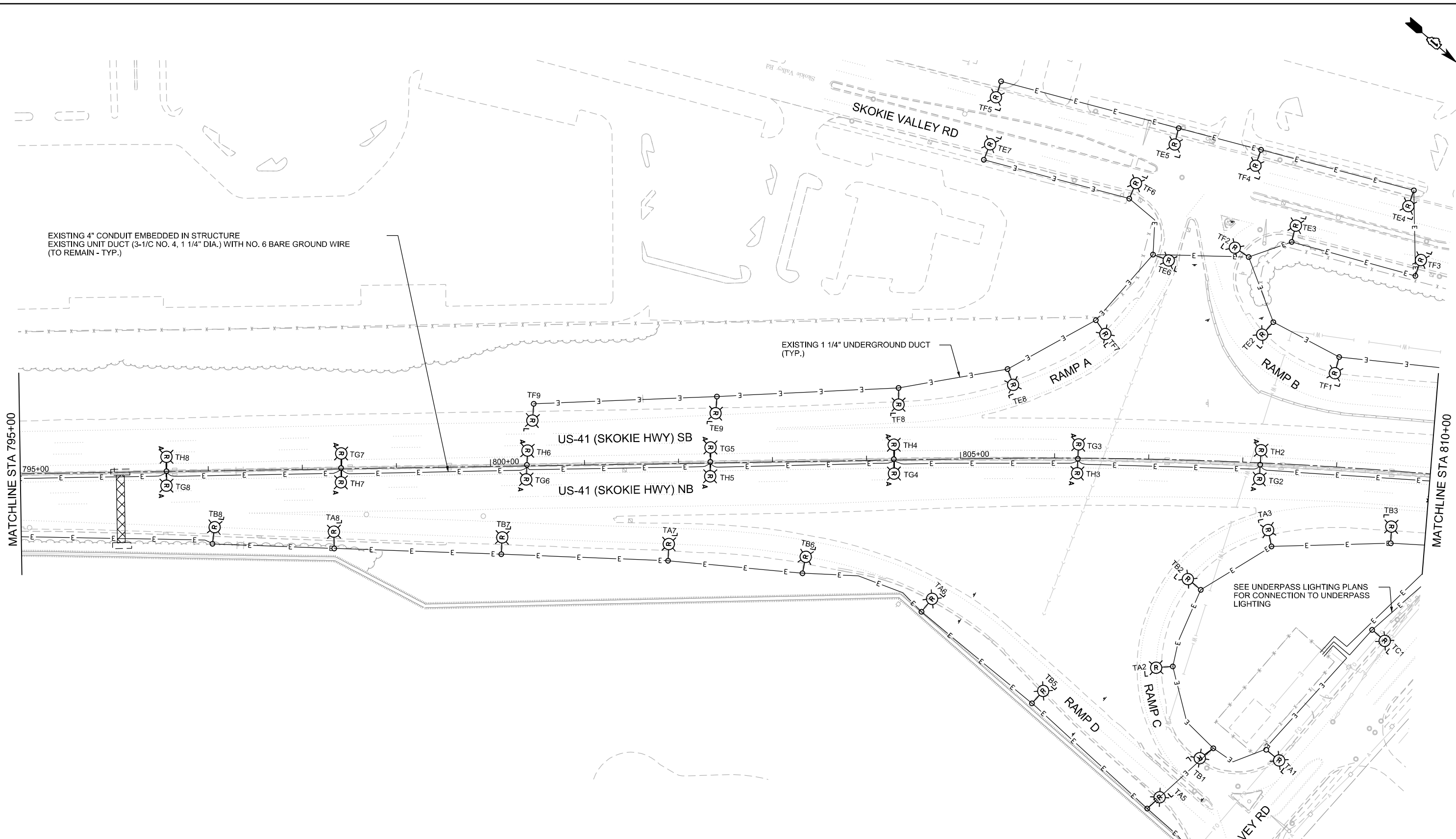
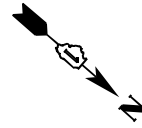
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

US 41 SMART HIGHWAY
 LIGHTING REMOVAL PLANS

SCALE: 1" = 50' SHEET 3 OF 20 SHEETS STA. 780+00 TO STA. 795+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	13
CONTRACT NO. 62W78			ILLINOIS FED. AID PROJECT	

LT-03



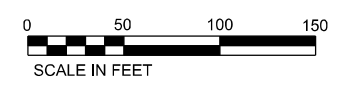
EXISTING 4" CONDUIT EMBEDDED IN STRUCTURE
EXISTING UNIT DUCT (3-1/C NO. 4, 1 1/4" DIA.) WITH NO. 6 BARE GROUND WIRE
(TO REMAIN - TYP.)

EXISTING 1 1/4" UNDERGROUND DUCT
(TYP.)

SEE UNDERPASS LIGHTING PLANS
FOR CONNECTION TO UNDERPASS
LIGHTING

NOTES:

- 1. LIGHTING UNITS ALONG RAMP D HAVE A LUMINAIRE SHIELD TO BE REMOVED. REMOVAL OF THE LUMINAIRE SHIELD SHALL BE PAID FOR BY REMOVAL OF LUMINAIRE, SALVAGE
- 2. SEE SHEET LT-01 FOR GENERAL NOTES AND LEGEND.



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USER NAME = ROHNC	DESIGNED - KFA	REVISED -
	DRAWN - MPK	REVISED -
PLOT SCALE =	CHECKED - KFA	REVISED -
PLOT DATE = 12/05/2025	DATE - 12/05/2025	REVISED -

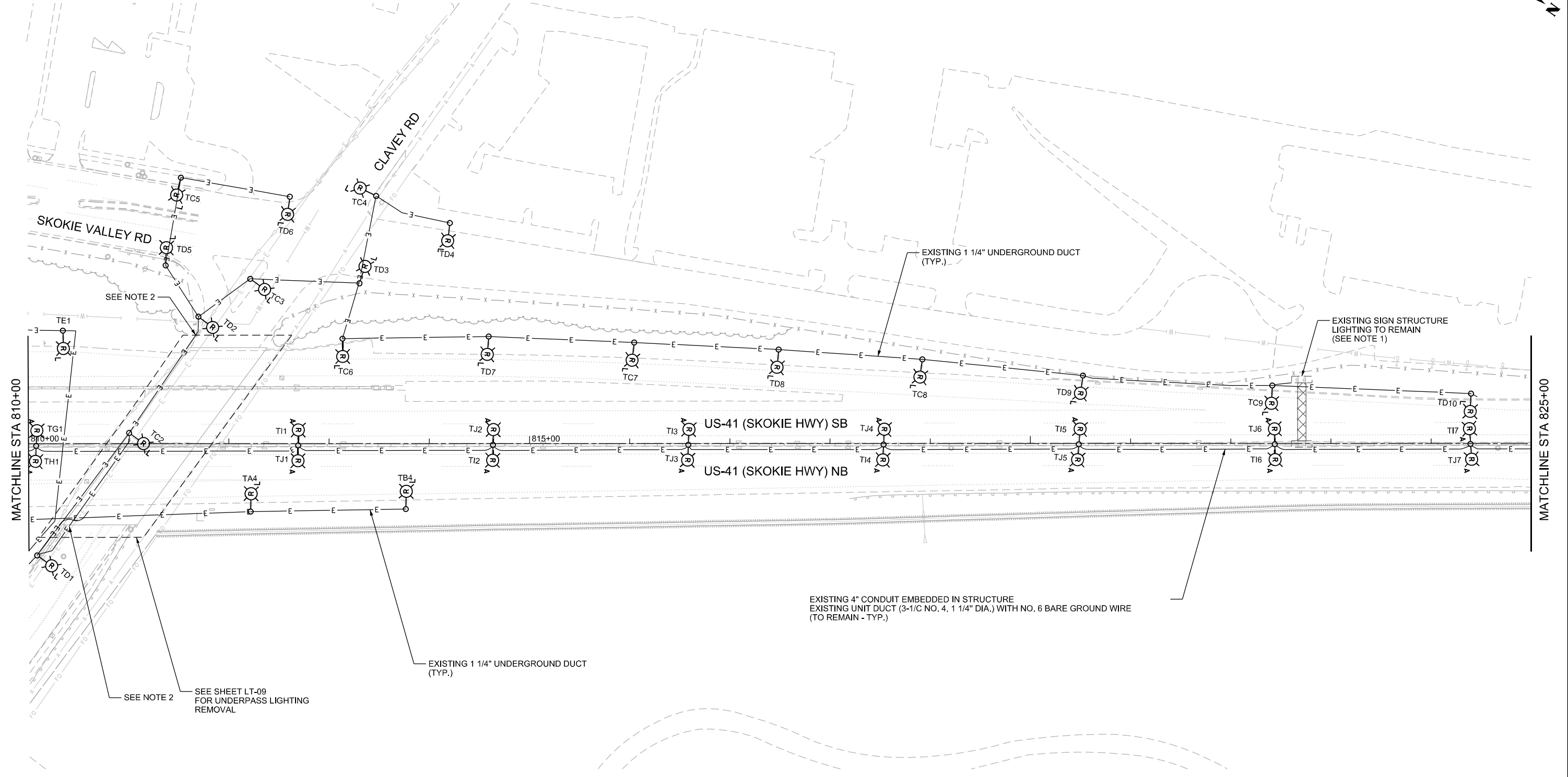
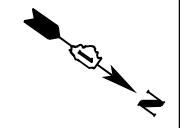
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 41 SMART HIGHWAY
LIGHTING REMOVAL PLANS**

SCALE: 1" = 50' SHEET 4 OF 20 SHEETS STA. 795+00 TO STA. 810+00

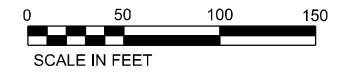
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	14
CONTRACT NO. 62W78			ILLINOIS FED. AID PROJECT	

LT-04



NOTES:

- 1. SIGN STRUCTURE LIGHTING CONDUIT TO SOUTH TO BE MAINTAINED. SEE PROPOSED LIGHTING FOR CONDUIT INTERCEPT AND CONNECTION.
- 2. SEE UNDERPASS LIGHTING PLANS FOR CONNECTION TO UNDERPASS LIGHTING.
- 3. SEE SHEET LT-01 FOR GENERAL NOTES AND LEGEND.



P:\proj\2024\US41_SmartHighway\Lighting\Drawings\Sheet\LT-05.dwg
 USER: KFA
 DATE: 12/05/2025
 SCALE: 1" = 50'
 SHEET: 5 OF 20 SHEETS
 STA: 810+00 TO STA: 825+00
 CONTRACT NO. 62W78
 ILLINOIS | FED. AID PROJECT



USER NAME = ROHNC	DESIGNED - KFA	REVISED -
DRAWN - MPK	REVISED -	
CHECKED - KFA	REVISED -	
DATE - 12/05/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**US 41 SMART HIGHWAY
LIGHTING REMOVAL PLANS**

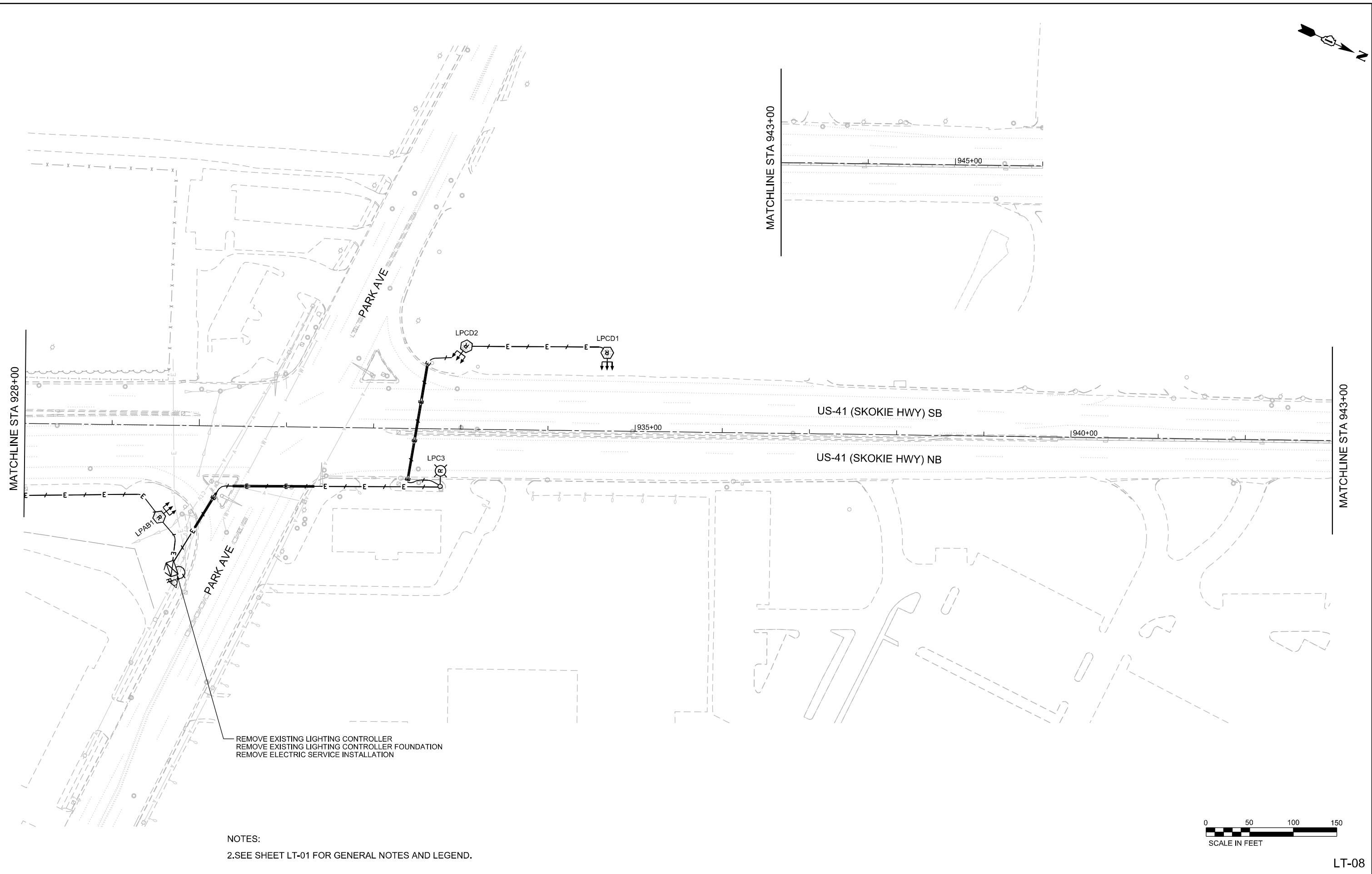
SCALE: 1" = 50' SHEET 5 OF 20 SHEETS STA. 810+00 TO STA. 825+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	15
CONTRACT NO. 62W78				
ILLINOIS		FED. AID PROJECT		

LT-05

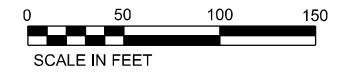


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REMOVE EXISTING LIGHTING CONTROLLER
 REMOVE EXISTING LIGHTING CONTROLLER FOUNDATION
 REMOVE ELECTRIC SERVICE INSTALLATION

NOTES:
 2.SEE SHEET LT-01 FOR GENERAL NOTES AND LEGEND.



USER NAME = ROHNC	DESIGNED - KFA	REVISED -
PLOT SCALE =	DRAWN - MPK	REVISED -
PLOT DATE = 12/5/2025	CHECKED - KFA	REVISED -
	DATE - 12/05/2025	REVISED -

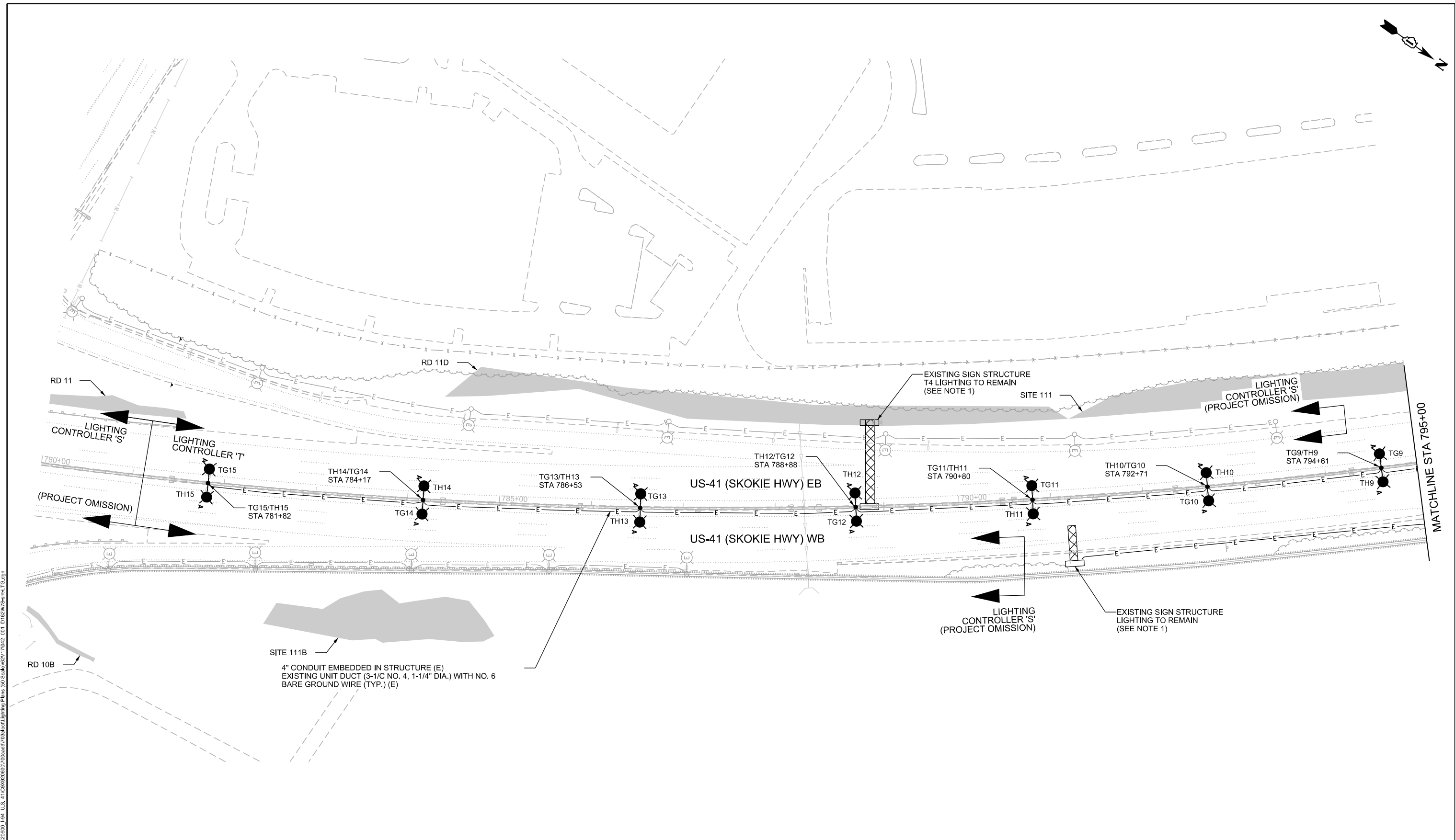
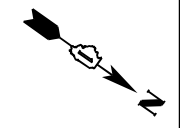
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

**US 41 SMART HIGHWAY
 LIGHTING REMOVAL PLANS**

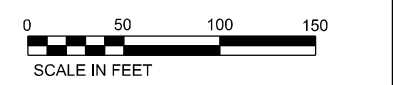
SCALE: 1" = 50' SHEET 8 OF 20 SHEETS STA. 928+00 TO STA. 945+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	18
CONTRACT NO. 62W78			ILLINOIS FED. AID PROJECT	

LT-08

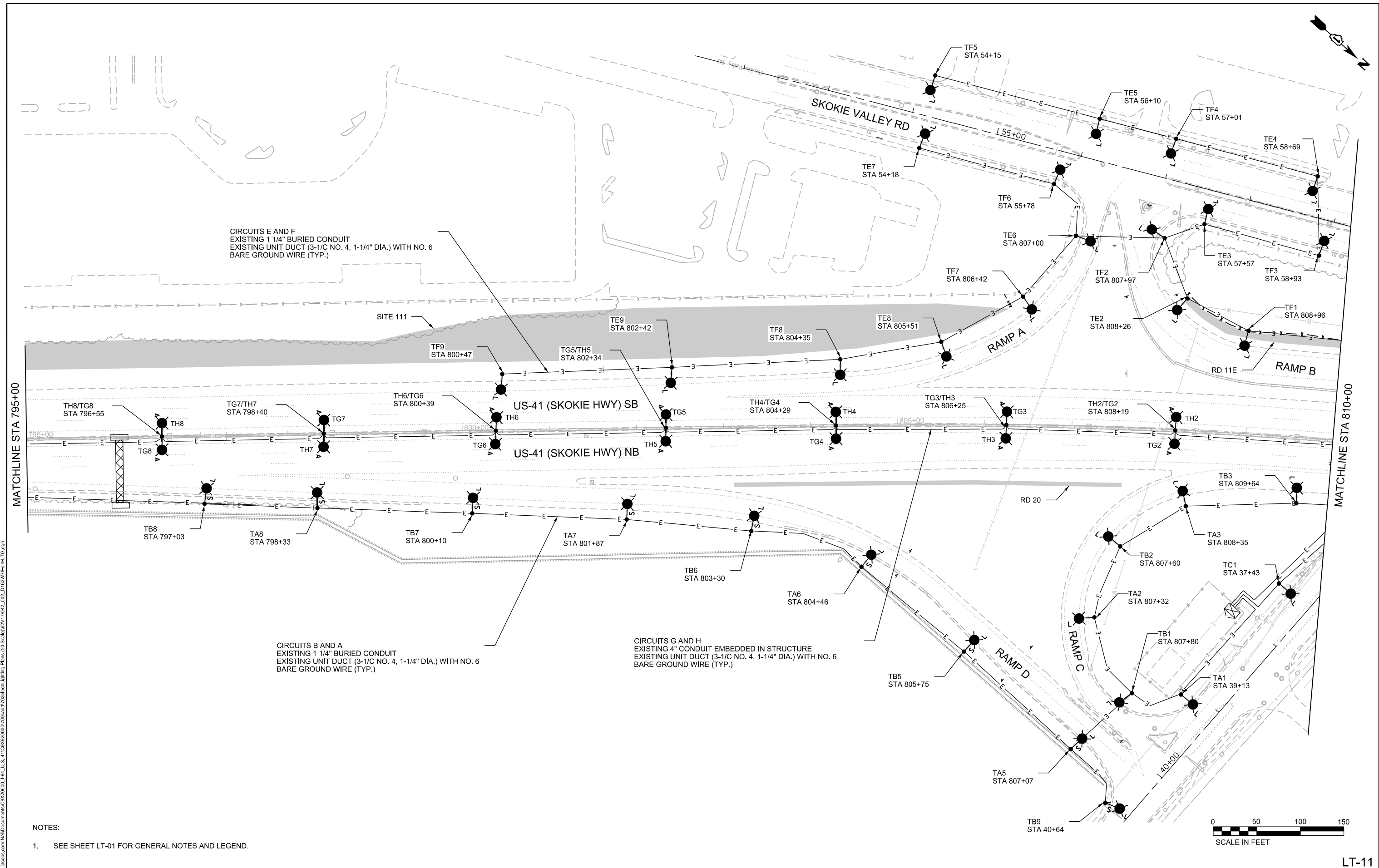


- NOTES:
- EXISTING SIGN STRUCTURE LIGHTING TO BE MAINTAINED. SEE CONNECTION SHEET LT-11.
 - SEE SHEET LT-01 FOR GENERAL NOTES AND LEGEND.



LT-10

Jacobs	USER NAME = ROHNC	DESIGNED - KFA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 41 SMART HIGHWAY PROPOSED LIGHTING PLANS		F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - KFA	REVISED -		SCALE: 1" = 50'	SHEET 10 OF 20 SHEETS	STA. 780+00 TO STA. 795+00	US41	2024-960-LT	LAKE	50
	PLOT DATE = 12/5/2025	DATE - 12/05/2025	REVISED -				CONTRACT NO. 62W78				
								ILLINOIS FED. AID PROJECT			



NOTES:
 1. SEE SHEET LT-01 FOR GENERAL NOTES AND LEGEND.

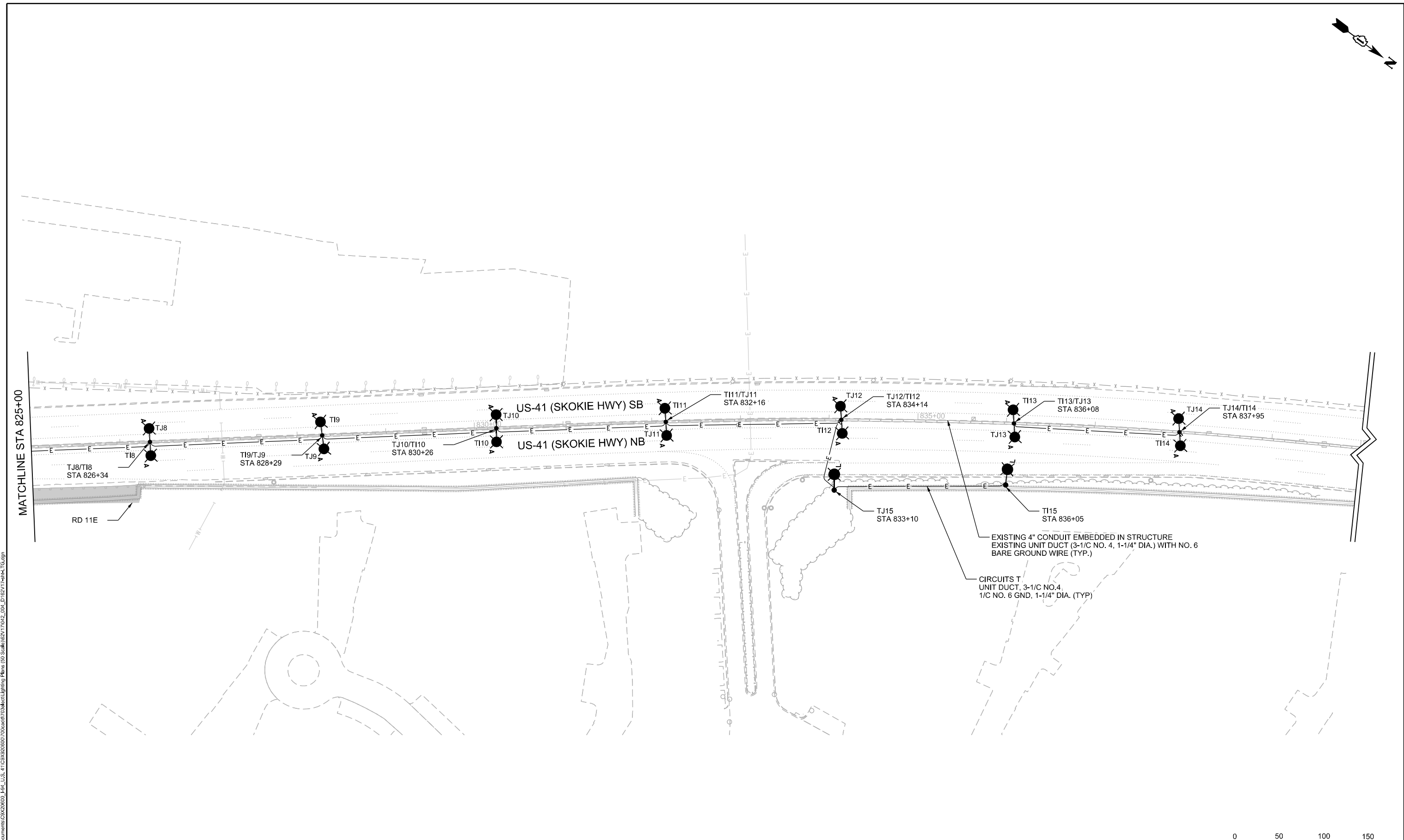
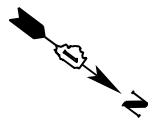


USER NAME = ROHNC	DESIGNED - KFA	REVISED -
	DRAWN - MPK	REVISED -
PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 1/13/2026	DATE - 12/05/2025	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

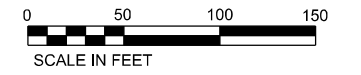
US 41 SMART HIGHWAY PROPOSED LIGHTING PLANS	
SCALE: 1" = 50'	SHEET 11 OF 20 SHEETS
STA. 795+00	TO STA. 810+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	21
CONTRACT NO. 62W78			ILLINOIS FED. AID PROJECT	



MATCHLINE STA 825+00

NOTES:
1. SEE SHEET LT-01 FOR GENERAL NOTES AND LEGEND.



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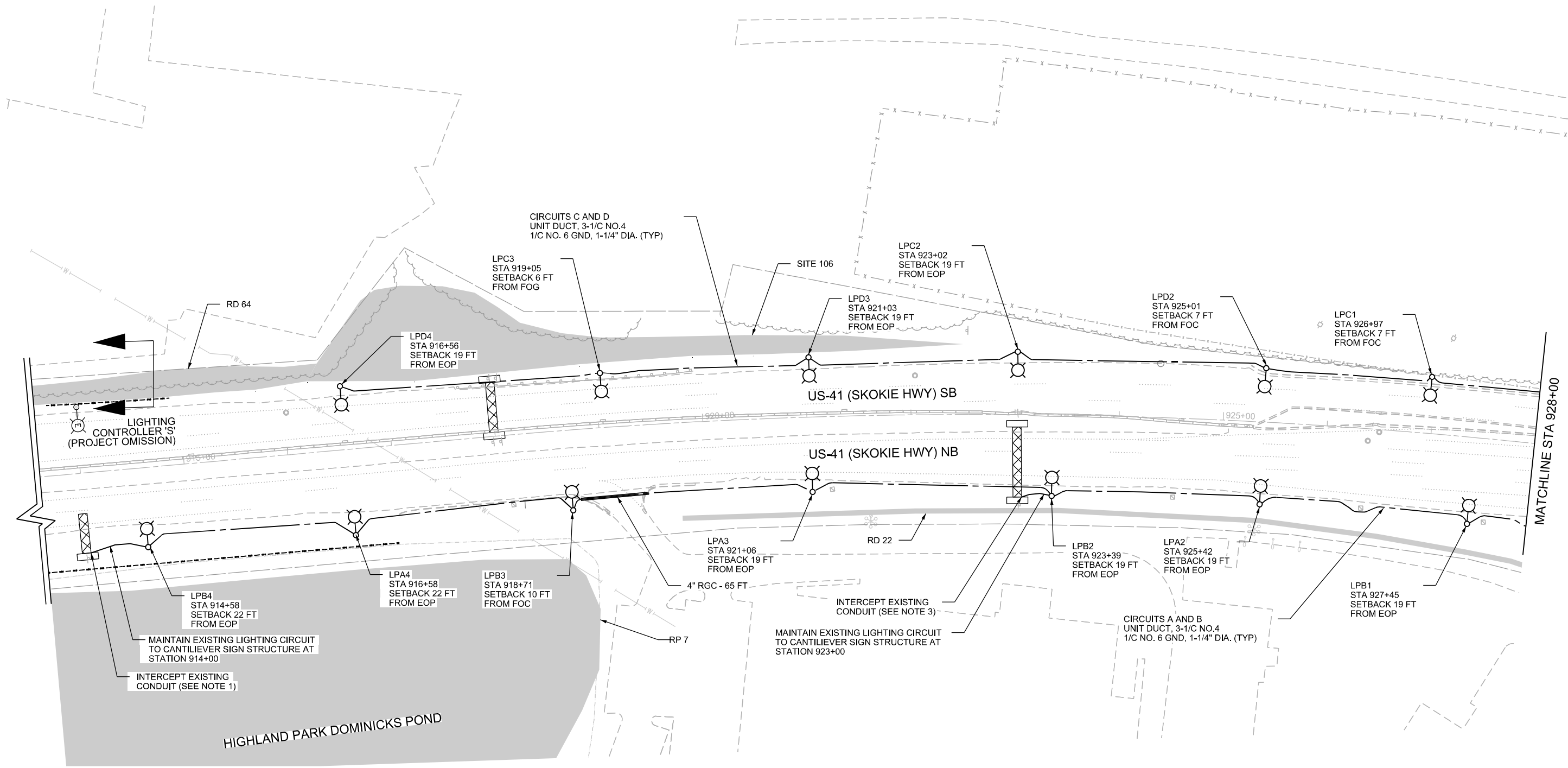
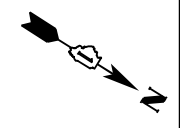
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DRAWN - MPK	REVISIONS -	
PLOT SCALE =	CHECKED - CRH	REVISED -
PLOT DATE = 12/5/2025	DATE - 12/05/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**US 41 SMART HIGHWAY
PROPOSED LIGHTING PLANS**

SCALE: 1" = 50' SHEET 13 OF 20 SHEETS STA. 825+00 TO STA. 840+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	23
CONTRACT NO. 62W78				
ILLINOIS FED. AID PROJECT				



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SETBACK MEASUREMENT LEGEND

- FOC: FACE OF CURB
- EOP: EDGE OF PAVEMENT
- FOG: FACE OF GUARDRAIL
- xxx - TEMPORARY FENCE AND PERIMETER EROSION BARRIER
- x - TEMPORARY FENCE

NOTES:

1. LIGHTING CONDUIT TO SIGN STRUCTURE AT STATION 914+00 SHALL BE MAINTAINED. SEE LIGHTING REMOVALS SHEET LT-07 FOR CONDUIT INTERCEPT. CONNECT EXISTING CABLING TO PROPOSED CIRCUIT AT LPB4.
2. SEE SHEET LT-01 FOR GENERAL NOTES AND LEGEND.
3. LIGHTING CONDUIT TO SIGN STRUCTURE AT STATION 923+00 SHALL BE MAINTAINED. SEE LIGHTING REMOVALS SHEET LT-07 FOR CONDUIT INTERCEPT. CONNECT EXISTING CABLING TO PROPOSED CIRCUIT AT LPB2.



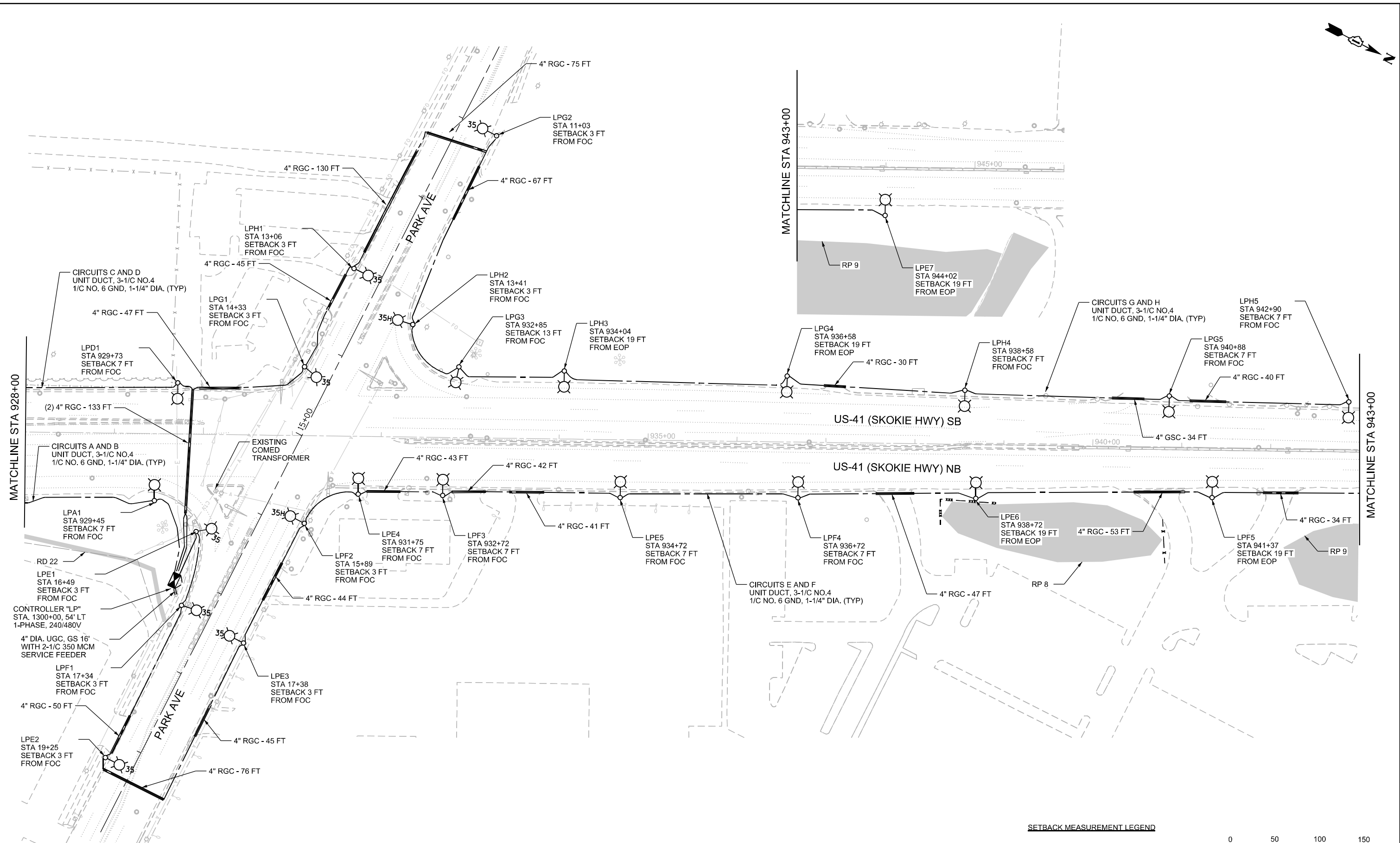
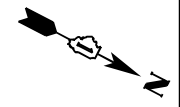
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PLOT DATE = 1/13/2026	DATE - 12/05/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US 41 SMART HIGHWAY	
PROPOSED LIGHTING PLANS	
SCALE: 1" = 50'	SHEET 14 OF 20 SHEETS
STA. 913+00	TO STA. 928+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	24
CONTRACT NO. 62W78				
ILLINOIS FED. AID PROJECT				

LT-14



MATCHLINE STA 928+00

MATCHLINE STA 943+00

NOTES:
1. SEE SHEET LT-01 FOR GENERAL NOTES AND LEGEND.

SETBACK MEASUREMENT LEGEND
 FOC: FACE OF CURB
 EOP: EDGE OF PAVEMENT



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USER NAME = ROHNC	DESIGNED - KFA	REVISED -
DRAWN - MPK	REVISED -	
CHECKED - CRH	REVISED -	
DATE - 12/05/2025	REVISED -	

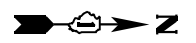
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 41 SMART HIGHWAY
PROPOSED LIGHTING PLANS**

SCALE: 1" = 50' SHEET 15 OF 20 SHEETS STA. 928+00 TO STA. 945+00

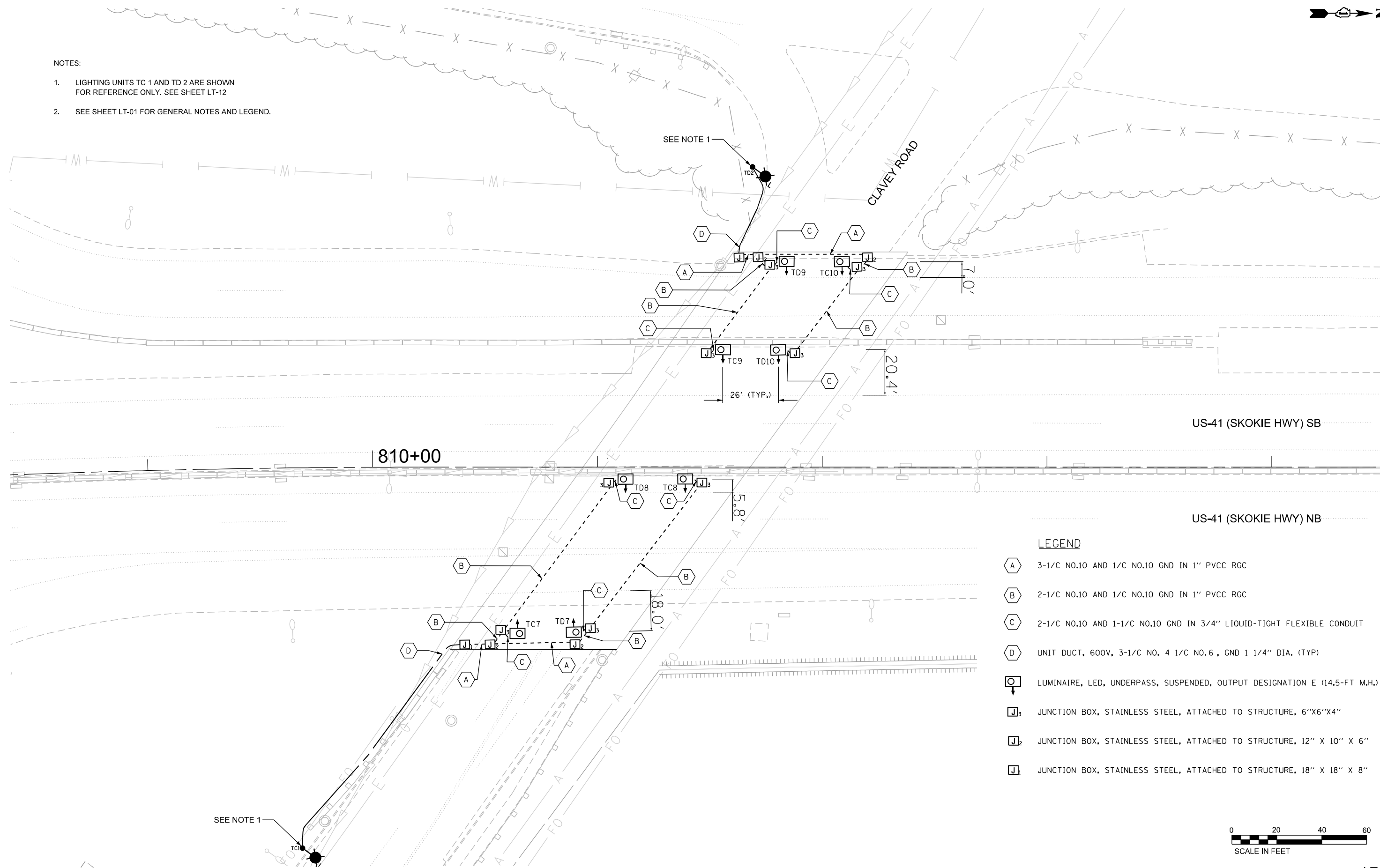
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	25
CONTRACT NO. 62W78			ILLINOIS FED. AID PROJECT	

LT-15



NOTES:

- 1. LIGHTING UNITS TC 1 AND TD 2 ARE SHOWN FOR REFERENCE ONLY. SEE SHEET LT-12
- 2. SEE SHEET LT-01 FOR GENERAL NOTES AND LEGEND.



LEGEND

- A** 3-1/2 NO.10 AND 1/2 NO.10 GND IN 1" PVCC RGC
- B** 2-1/2 NO.10 AND 1/2 NO.10 GND IN 1" PVCC RGC
- C** 2-1/2 NO.10 AND 1-1/2 NO.10 GND IN 3/4" LIQUID-TIGHT FLEXIBLE CONDUIT
- D** UNIT DUCT, 600V, 3-1/2 NO. 4 1/2 NO. 6, GND 1 1/4" DIA. (TYP)
- O** LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION E (14.5-FT M.H.)
- J1** JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6"X6"X4"
- J2** JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"
- J3** JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"



LT-16

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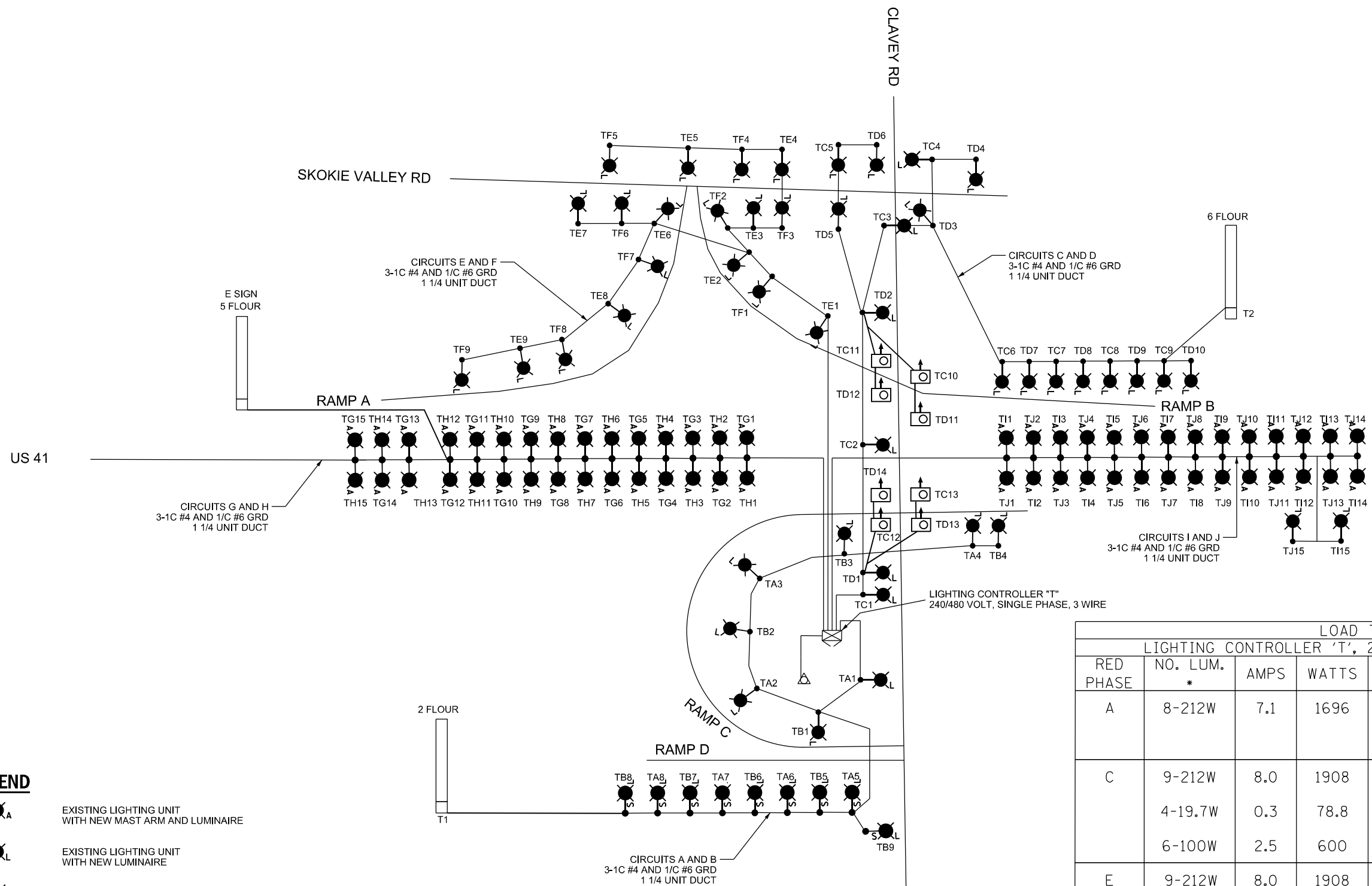
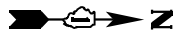
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	DRAWN - MPK	REVISED -
PLOT SCALE =	CHECKED - KFA	REVISED -
PLOT DATE = 1/13/2026	DATE - 12/05/2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 41 SMART HIGHWAY
UNDERPASS PROPOSED PLANS (CLAVEY RD)**

SCALE: 1" = 20' SHEET 16 OF 20 SHEETS STA. XXX TO STA. XXX

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	26
CONTRACT NO. 62W78			ILLINOIS FED. AID PROJECT	



LEGEND

- EXISTING LIGHTING UNIT WITH NEW MAST ARM AND LUMINAIRE
- EXISTING LIGHTING UNIT WITH NEW LUMINAIRE
- EXISTING LIGHTING UNIT WITH NEW LUMINAIRE WITH SHIELD
- PROPOSED UNDERPASS LUMINAIRE
- EXISTING LIGHTING CONTROLLER
- EXISTING ELECTRIC SERVICE INSTALLATION
- EXISTING SIGN LIGHTING (TYPE AS NOTED)

LOAD TABLE							
LIGHTING CONTROLLER 'T', 240/480W, 1-PHASE, 3-WIRE							
RED PHASE	NO. LUM. *	AMPS	WATTS	BLACK PHASE	NO. LUM. *	AMPS	WATTS
A	8-212W	7.1	1696	B	8-212W	7.1	1696
	8-100W	3.3	800				
C	9-212W	8.0	1908	D	10-212W	8.8	2120
	4-19.7W	0.3	78.8		4-19.7W	0.3	78.8
	6-100W	2.5	600				
E	9-212W	8.0	1908	F	9-212W	8.0	1908
G	15-137W	8.6	2055	H	15-137W	8.6	2055
	5-100W	2.1	500				
I	15-137W	8.6	2055	J	15-137W	8.6	2055
TOTAL CONNECTED LOAD CAPACITY: 21.5 KVA							
47.5' LED = 212W, UNDERPASS LED = 19.7W, SIGN LUMINAIRE = 100W, MEDIAN LED = 137W							

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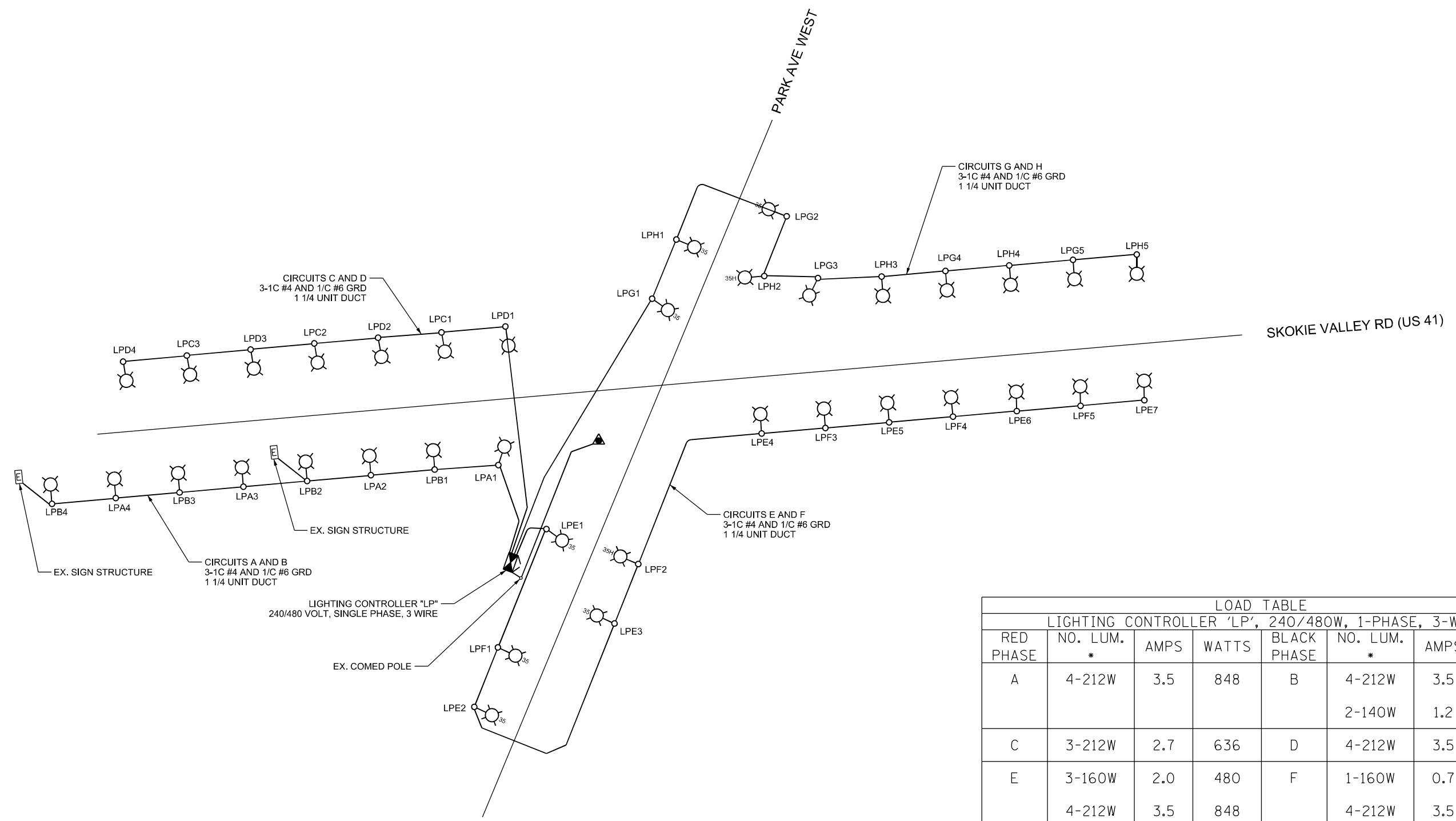
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	DRAWN - MPK	REVISED -
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PLOT DATE = 12/15/2025	DATE - 12/05/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION





SCALE: NTS		SHEET 17 OF 20 SHEETS		STA. TO STA.	
SINGLE LINE DIAGRAM LIGHTING CONTROLLER T					

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	27
CONTRACT NO. 62W78			ILLINOIS FED. AID PROJECT	

LT-17



LEGEND

-  PROPOSED LIGHTING UNIT
-  PROPOSED LIGHTING CONTROLLER
-  PROPOSED ELECTRIC SERVICE INSTALLATION
-  EXISTING SIGN LIGHTING (TYPE AS NOTED)

LOAD TABLE							
LIGHTING CONTROLLER 'LP', 240/480V, 1-PHASE, 3-WIRE							
RED PHASE	NO. LUM.*	AMPS	WATTS	BLACK PHASE	NO. LUM.*	AMPS	WATTS
A	4-212W	3.5	848	B	4-212W	3.5	848
					2-140W	1.2	280
C	3-212W	2.7	636	D	4-212W	3.5	848
E	3-160W	2.0	480	F	1-160W	0.7	160
	4-212W	3.5	848		4-212W	3.5	848
G	2-160W	1.3	320	H	1-160W	0.7	160
	3-212W	2.7	636		4-212W	3.5	848

TOTAL CONNECTED LOAD CAPACITY: 7.8 KVA
 47.5' LED = 212W, 35' LED = 160W, SIGN LUMINAIRE = 140W

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USER NAME = ROHNC	DESIGNED - KFA	REVISED -
DRAWN - MPK	CHECKED - KFA	REVISED -
PLOT SCALE =	DATE - 12/05/2025	REVISED -
PLOT DATE = 1/13/2026		

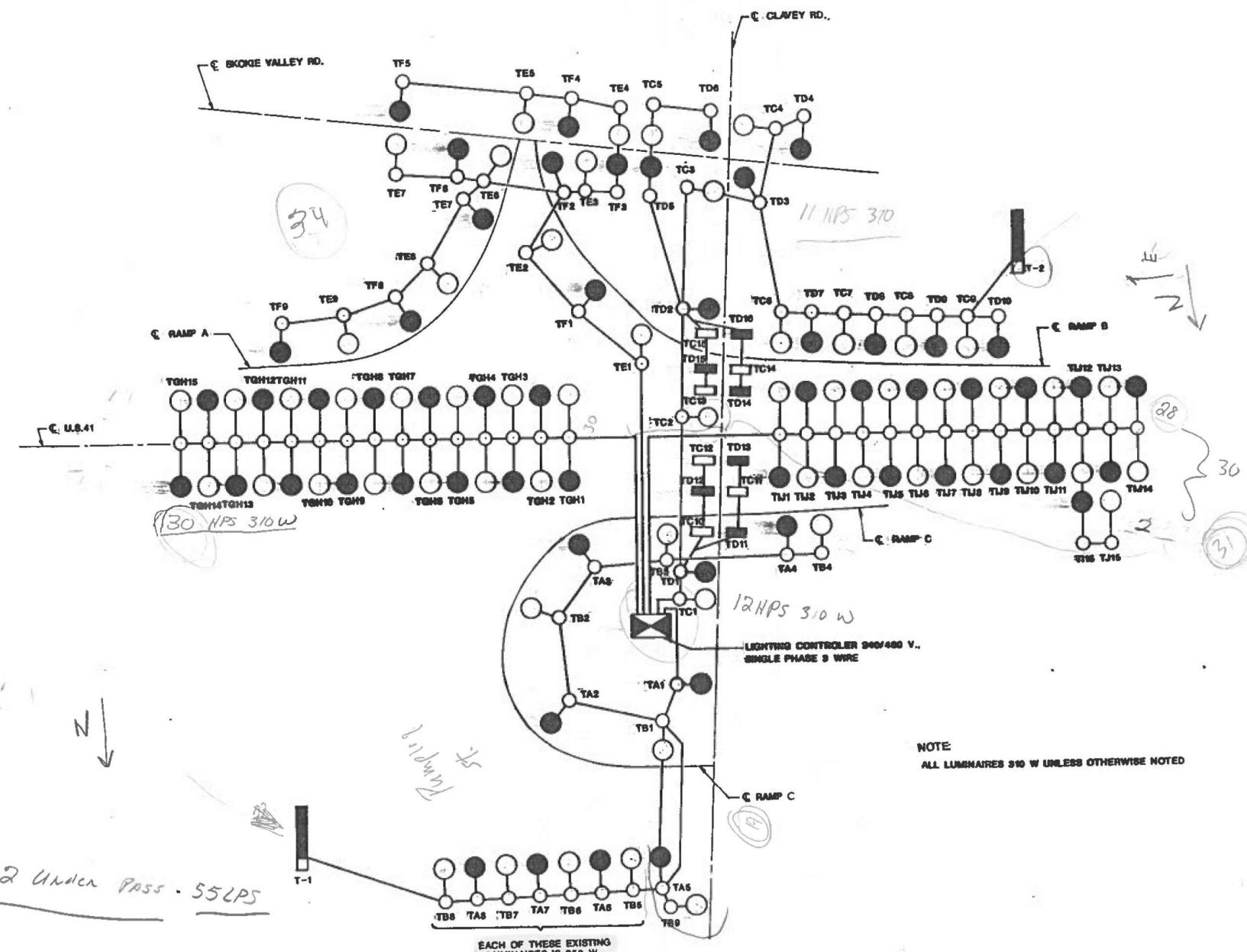
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SINGLE LINE DIAGRAM
LIGHTING CONTROLLER LP**

SCALE: NTS SHEET 18 OF 20 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	28
CONTRACT NO. 62W78				
ILLINOIS FED. AID PROJECT				

STATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL	0	LAKE	290	138
STA.	TO STA.			
1815.3 HB & 1815-101.1 K (88)				



CIRCUIT	LOAD
A	12.0 A
B	13.5 A
C	16.5 A
D	18.0 A
E	13.5 A
F	13.5 A
G	22.5 A
H	22.5 A
I	22.5 A
J	22.5 A

- HORIZONTAL MOUNT LUMINAIRE CONNECTED TO RED PHASE WIRE
- HORIZONTAL MOUNT LUMINAIRE CONNECTED TO BLACK PHASE WIRE
- UNDERPASS LUMINAIRE CONNECTED TO RED PHASE WIRE
- UNDERPASS LUMINAIRE CONNECTED TO BLACK PHASE WIRE
- ▭ SIGN STRUCTURE & JUNCTION BOX

NOTE:
ALL LUMNAIRES 310 W UNLESS OTHERWISE NOTED

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**CONTROL CABINET T
WIRING DIAGRAM**

SCALE: NONE DATE 8/14/85
CHECKED BY RE

FOR INFORMATION ONLY

LT-19



USER NAME = ROHNC	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 12/5/2025	DATE - 12/05/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS BUILTS
LIGHTING CONTROLLER T

SCALE: NTS SHEET 19 OF 20 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	29
CONTRACT NO. 62W78			ILLINOIS FED. AID PROJECT	

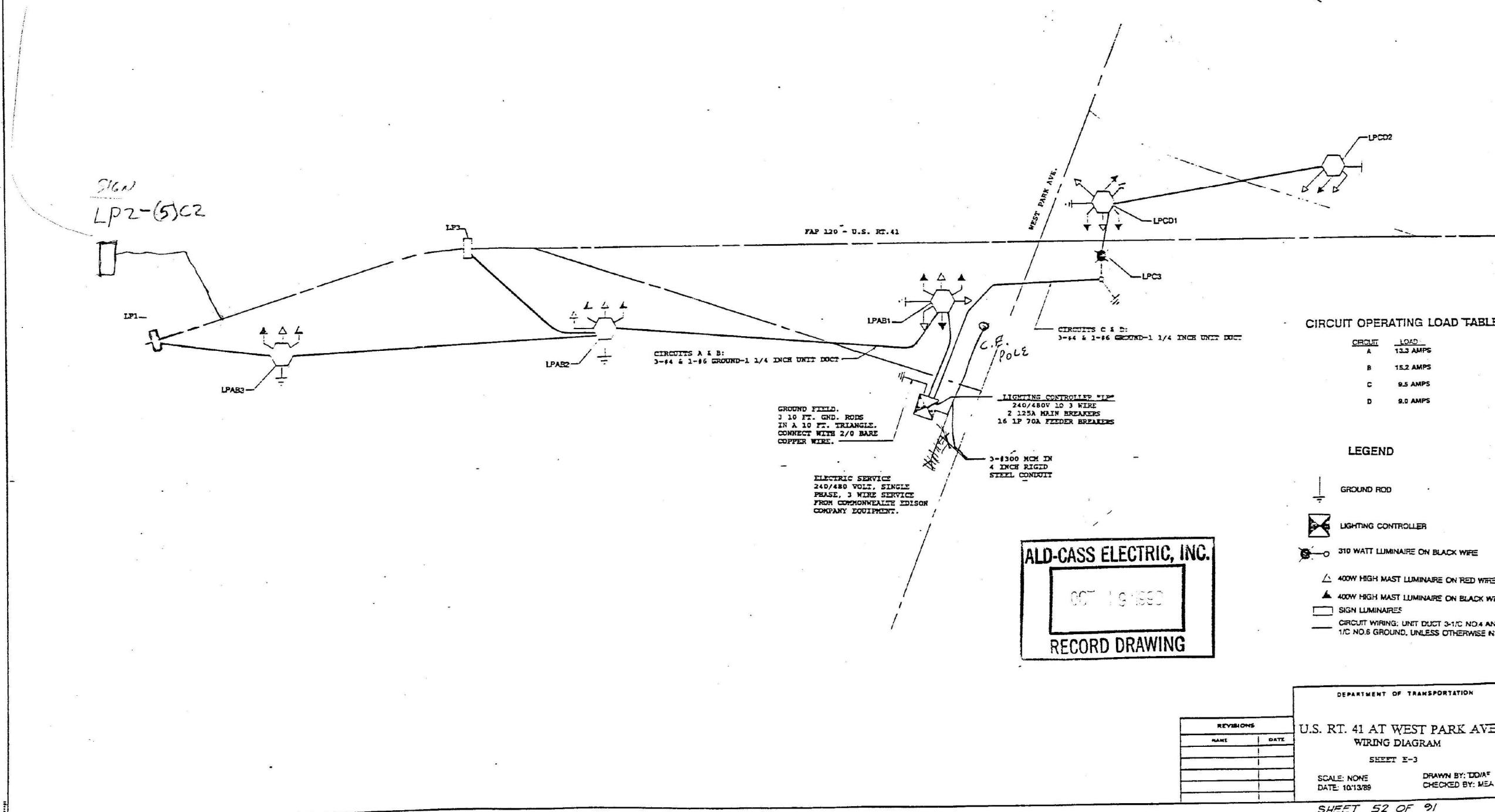
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WYE	SECTION	COUNTY	SHEET	
2400	+	LAKE	91	52
STA.	TO STA.			
(104 & 104R) R-3/8"				

- NOTES**
- ALL CIRCUIT DESIGNATIONS SHALL BE PRECEDED BY LIGHTING CONTROLLER DESIGNATION "LP".
 - NOTE THE REQUIREMENTS OF THE SPECIAL PROVISIONS FOR WIRE IDENTIFICATION TAGGING.

DENFIELD

216W
LP2-(5)C2



CIRCUITS A & B:
3-#4 & 1-#6 GROUND-1 1/4 INCH UNITS DUCT

CIRCUITS C & D:
3-#4 & 1-#6 GROUND-1 1/4 INCH UNITS DUCT

CIRCUIT OPERATING LOAD TABLE

CIRCUIT	LOAD
A	13.3 AMPS
B	15.2 AMPS
C	9.5 AMPS
D	9.0 AMPS

LEGEND

- GROUND ROD
- LIGHTING CONTROLLER
- 310 WATT LUMINAIRE ON BLACK WIRE
- 400W HIGH MAST LUMINAIRE ON RED WIRE
- 400W HIGH MAST LUMINAIRE ON BLACK WIRE
- SIGN LUMINAIRES
- CIRCUIT WIRING: UNIT DUCT 3-1/2 NO. 4 AND 1/2 NO. 6 GROUND, UNLESS OTHERWISE NOTED

GROUND FIELD.
3 10 FT. GND. RODS
IN A 10 FT. TRIANGLE.
CONNECT WITH 2/0 BARE
COPPER WIRE.

ELECTRIC SERVICE
240/480 VOLT, SINGLE
PHASE, 3 WIRE SERVICE
FROM COCHRANVILLE EDISON
COMPANY EQUIPMENT.

ALD-CASS ELECTRIC, INC.

007 16 1989

RECORD DRAWING

REVISIONS	
NAME	DATE

DEPARTMENT OF TRANSPORTATION

U.S. RT. 41 AT WEST PARK AVE.
WIRING DIAGRAM

SHEET E-3

SCALE: NONE DRAWN BY: DD/AF
DATE: 10/13/88 CHECKED BY: MEA

SHEET 52 OF 91

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS BUILT
LIGHTING CONTROLLER LP

SCALE: NTS SHEET 20 OF 20 SHEETS STA. TO STA.

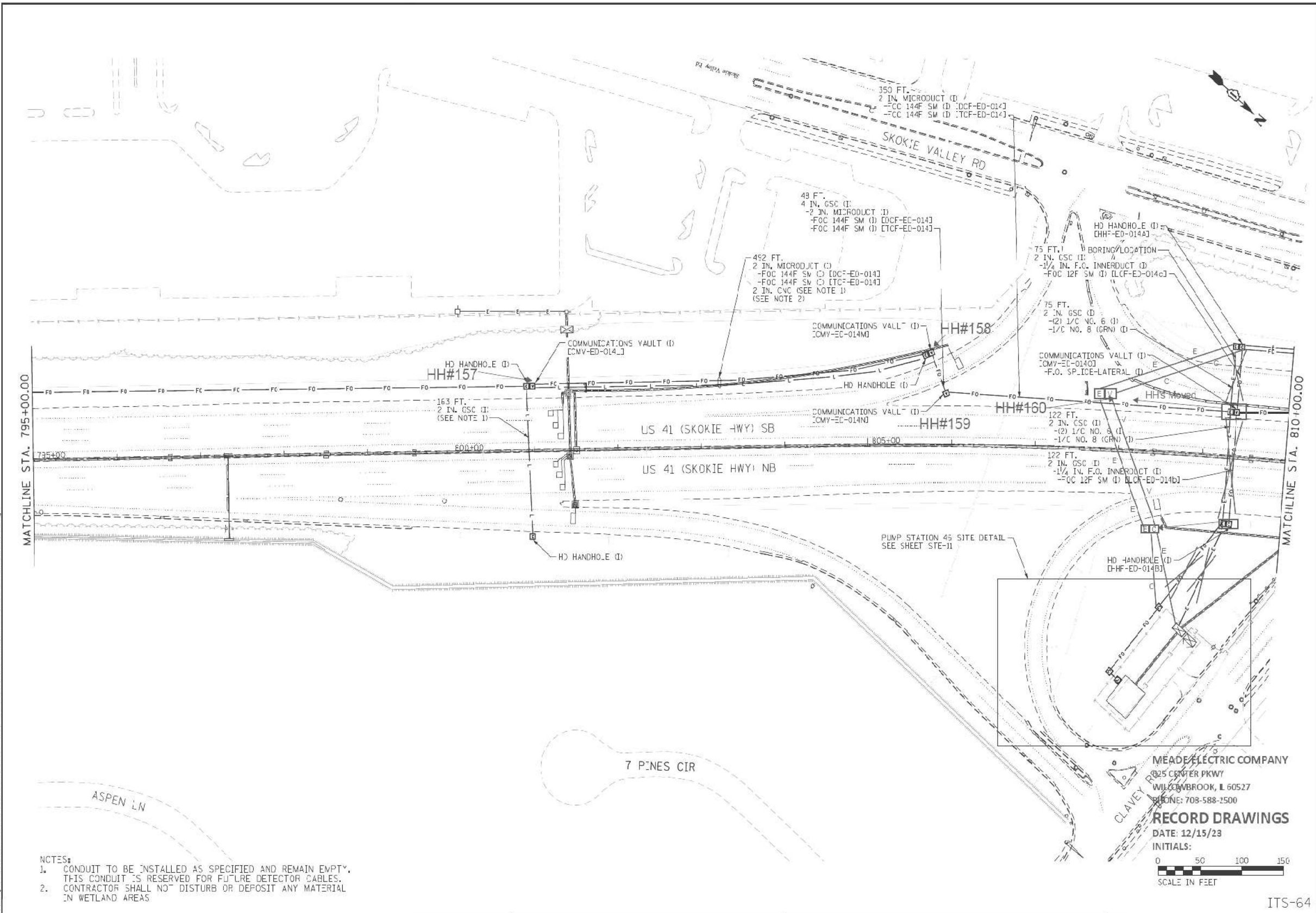
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	30
CONTRACT NO. 62W78				
ILLINOIS FED. AID PROJECT				

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USER NAME	= ROHNC	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
PLOT SCALE	=	CHECKED	-	REVISED	-
PLOT DATE	= 12/5/2025	DATE	= 12/05/2025	REVISED	-

LT-20



Jacobs

USER NAME = BREITEMF	DESIGNED - J.L.Z	REVISED - 07/14/2021
PLotted SCALE =	DRAWN - HAR	REVISED -
Plot DATE = 7/19/2021	CHECKED - CRH	REVISED -
	DATE - 02/28/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INTELLIGENT TRANSPORTATION SYSTEMS CONSTRUCTION PLANS		
F.A.I. RTE. = 94	SECTION = 2016-0631	COUNTY = COOK/LAKE
SCALE: 1" = 50' SHEET 64 OF 82 SHEETS STA. TO STA.		

MEADE ELECTRIC COMPANY 625 CENTER PKWY WILLOWBROOK, IL 60527 PHONE: 708-588-1500			
RECORD DRAWINGS DATE: 12/15/23 INITIALS:			
SCALE IN FEET 0 50 100 150			
ITS-64			

FOR INFORMATION ONLY

Jacobs

USER NAME = ROHNC	DESIGNED -	REVISED -
PLotted SCALE =	DRAWN -	REVISED -
Plot DATE = 12/05/2025	CHECKED -	REVISED -
	DATE - 12/05/2025	REVISED -

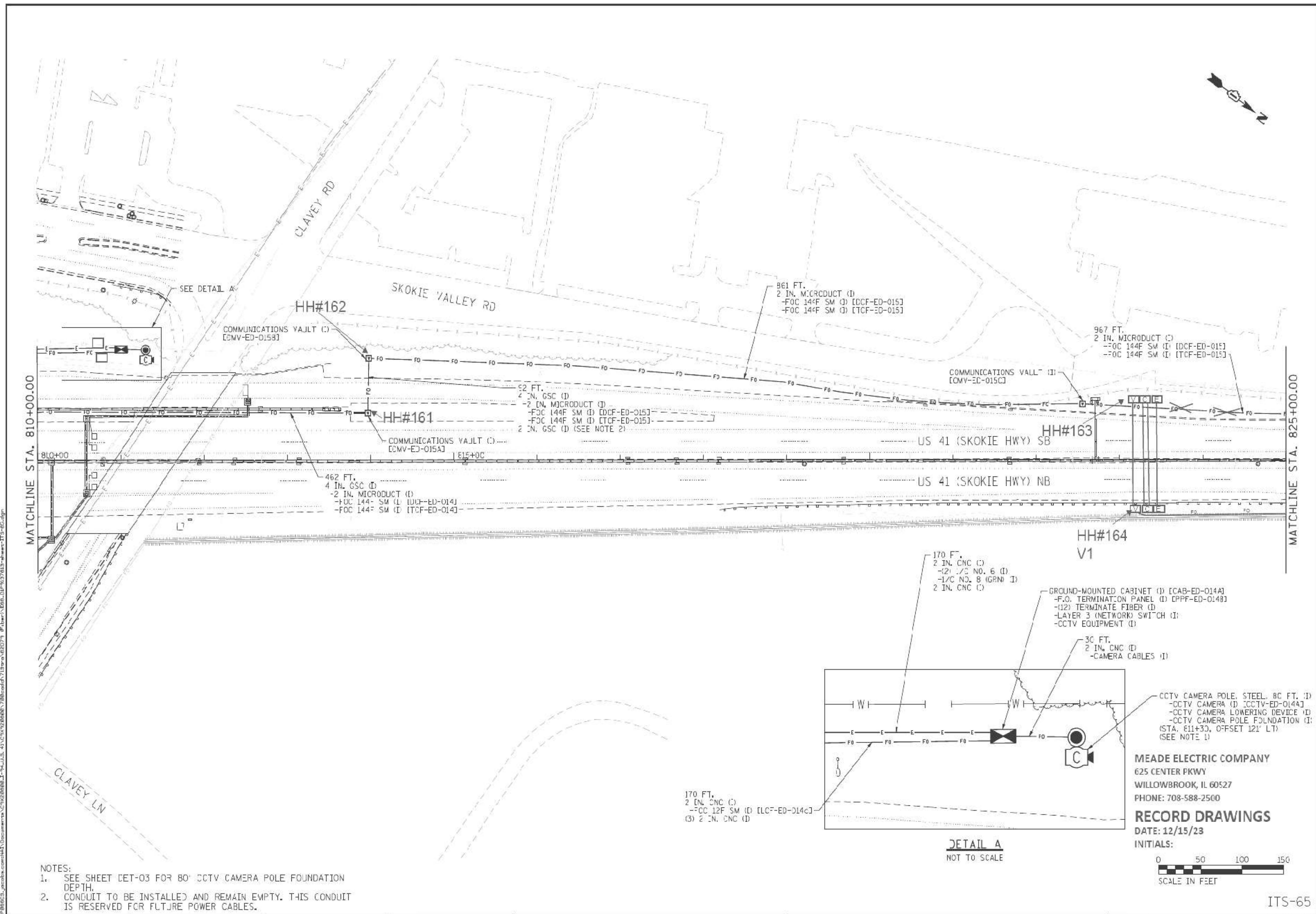
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

AS BUILTS LIGHTING CONTROLLER T		
F.A.I. RTE. = US41	SECTION = 2024-980-LT	COUNTY = LAKE
SCALE: NTS SHEET 19 OF 20 SHEETS STA. TO STA.		

MEADE ELECTRIC COMPANY 625 CENTER PKWY WILLOWBROOK, IL 60527 PHONE: 708-588-1500			
RECORD DRAWINGS DATE: 12/15/23 INITIALS:			
SCALE IN FEET 0 50 100 150			
ITS-64			

LT-21

I:\Projects\2025\62079_IL\Drawings\20250601\02\Lighting\Lighting Plans (50 Scale)\2511704_003_0122W78-shs-Bills_3.dgn



NOTES:
 1. SEE SHEET DET-03 FOR 80' CCTV CAMERA POLE FOUNDATION DEPTH.
 2. CONDUIT TO BE INSTALLED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE POWER CABLES.

Jacobs USER NAME = BREITENF PLOT SCALE = PLOT DATE = 7/19/2021	DESIGNED - J.J.Z	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTELLIGENT TRANSPORTATION SYSTEMS CONSTRUCTION PLANS SCALE: 1" = 50' SHEET 65 OF 82 SHEETS STA. TO STA.	F.A.I. RITE: 94 SECTION: 2016-0631 COUNTY: COOK/LAKE TOTAL SHEETS: 308 / 143 SHEET NO.: CONTRACT NO. 62079
	DRAWN - HAR	REVISED -			
	CHECKED - CRH	REVISED -			
DATE - 02/28/2020	REVISED -	ITS-65 ILLINOIS FED. AID PROJECT			

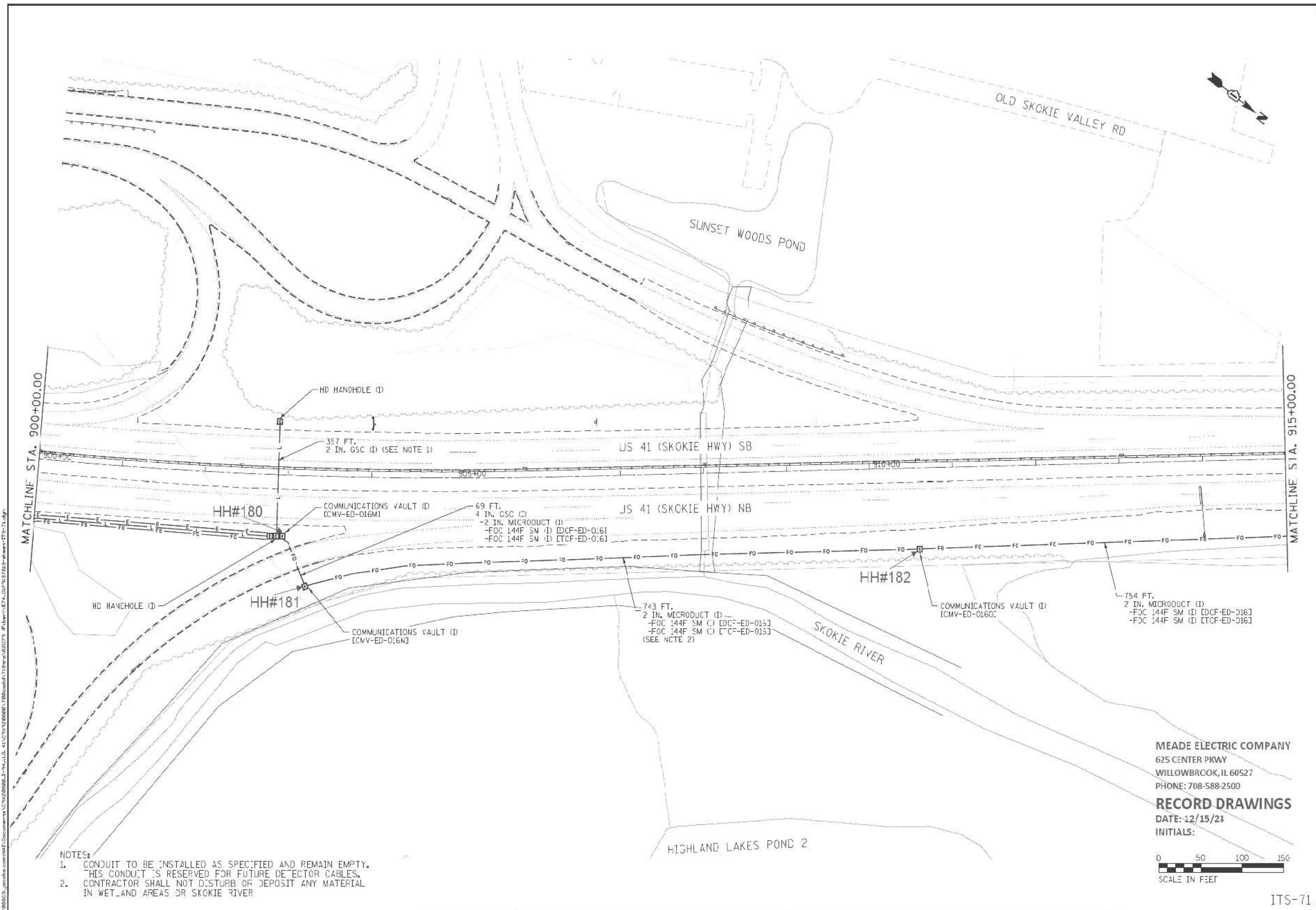
MEADE ELECTRIC COMPANY
 625 CENTER PKWY
 WILLOWBROOK, IL 60527
 PHONE: 708-588-2500
RECORD DRAWINGS
 DATE: 12/15/23
 INITIALS:

FOR INFORMATION ONLY

Jacobs USER NAME = ROHNG PLOT SCALE = PLOT DATE = 12/05/2025	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	AS BUILT LIGHTING CONTROLLER T SCALE: NTS SHEET 19 OF 20 SHEETS STA. TO STA.	F.A.I. RITE: US41 SECTION: 2024-960-LT COUNTY: LAKE TOTAL SHEETS: 50 / 32 SHEET NO.: CONTRACT NO. 62W78
	DRAWN -	REVISED -			
	CHECKED -	REVISED -			
DATE - 12/05/2025	REVISED -	ILLINOIS FED. AID PROJECT			

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LT-22



- NOTES:
1. CONDUIT TO BE INSTALLED AS SPECIFIED AND REMAIN EMPTY. THIS CONDUIT IS RESERVED FOR FUTURE DETECTOR CABLES.
 2. CONTRACTOR SHALL NOT DISTURB OR DEPOSIT ANY MATERIAL IN WETLAND AREAS OR SKOKIE RIVER.

MEADE ELECTRIC COMPANY
 625 CENTER PKWY
 WILLOWBROOK, IL 60527
 PHONE: 708-588-2500

RECORD DRAWINGS
 DATE: 12/15/23
 INITIALS:



Jacobs	USER NAME = BREITEMF	DESIGNED - J.L.Z	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTELLIGENT TRANSPORTATION SYSTEMS CONSTRUCTION PLANS	F.A.I. RITE: 94	SECTION: 2016-0631	COUNTY: COOK/LAKE	TOTAL SHEETS: 308	SHEET NO.: 149	
	PLOT SCALE =	CHECKED - CRH	REVISED -			SCALE: 1" = 50'	SHEET 71 OF 82 SHEETS	STA. TO STA.	CONTRACT NO. 62079		
	PLOT DATE = 7/19/2021	DATE - 02/28/2020	REVISED -			ILLINOIS FED. AID PROJECT					

FOR INFORMATION ONLY



USER NAME = ROHNC	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 12/05/2025	DATE - 12/05/2025	REVISED -

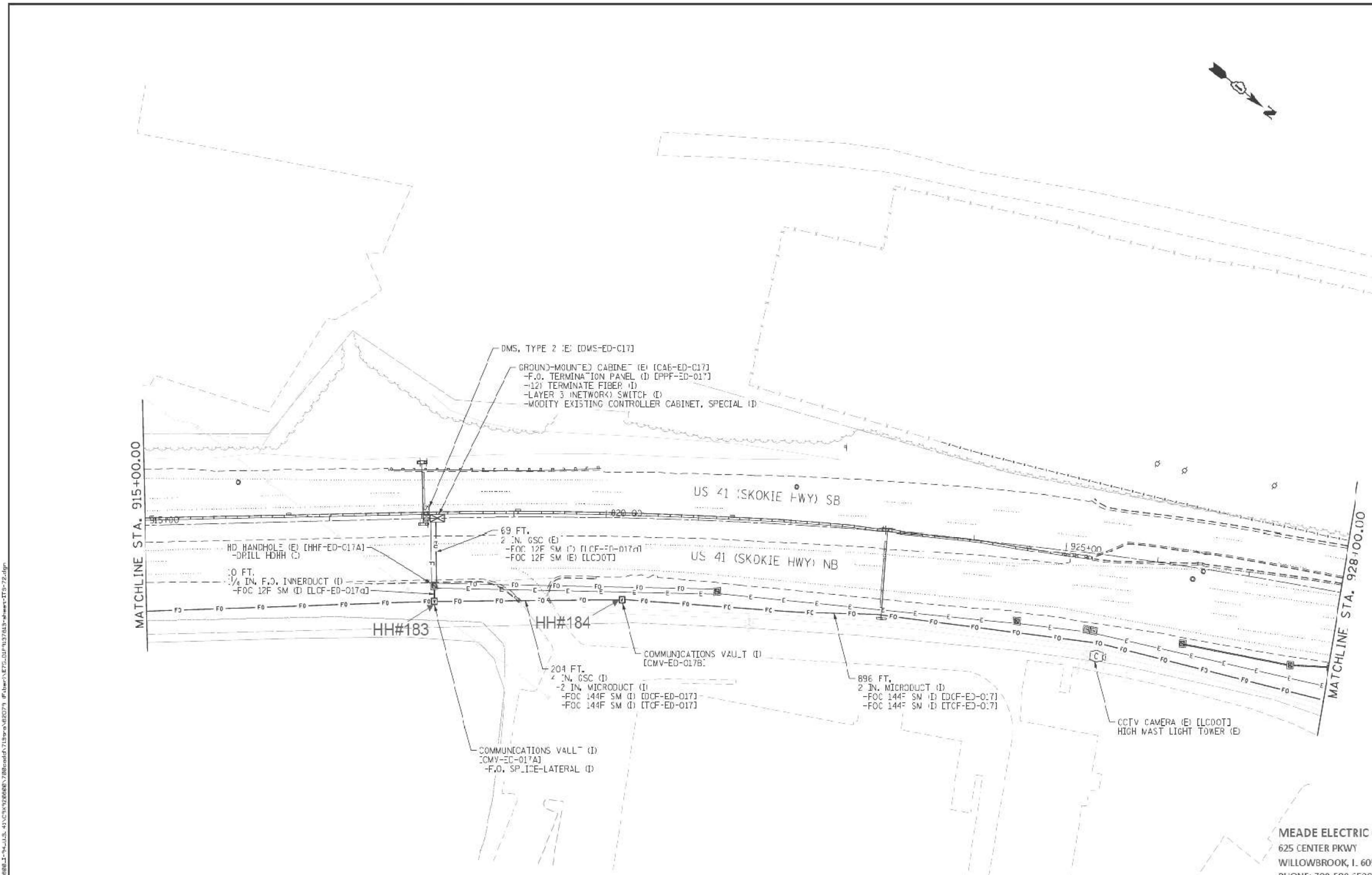
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS BUILTS	
LIGHTING CONTROLLER T	
SCALE: NTS	SHEET 19 OF 20 SHEETS
STA.	TO STA.

F.A.I. RITE: US41	SECTION: 2024-960-LT	COUNTY: LAKE	TOTAL SHEETS: 50	SHEET NO.: 33
CONTRACT NO. 62W78				
ILLINOIS FED. AID PROJECT				

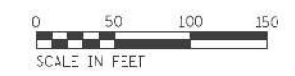
LT-23

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 Plot Subtitle: INTELLIGENT TRANSPORTATION SYSTEMS CONSTRUCTION PLANS
 Plot Sheet: 19 OF 20 SHEETS
 Plot Station: STA. TO STA.
 Plot Contract: 62W78
 Plot Project: ILLINOIS FED. AID PROJECT



MEADE ELECTRIC COMPANY
 625 CENTER PKWY
 WILLOWBROOK, IL 60527
 PHONE: 708-588-2500

RECORD DRAWINGS
 DATE: 12/15/23
 INITIALS:



ITS-72

Jacobs	USER NAME = BREITEMF	DESIGNED - J.L.Z	REVISED - 07/14/2021	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTELLIGENT TRANSPORTATION SYSTEMS CONSTRUCTION PLANS	F.A.I. RATE:	SECTION:	COUNTY:	TOTAL SHEETS:	SHEET NO.:
	PLOT SCALE =	DRAWN - HAR	REVISED -			94	2016-0631	COOK/LAKE	308	150
	PLOT DATE = 7/19/2021	CHECKED - CRH	REVISED -			CONTRACT NO. 62079			ILLINOIS FED. AID PROJECT	
				SCALE: 1" = 50'		SHEET 72 OF 82 SHEETS STA. TO STA.				

FOR INFORMATION ONLY



USER NAME = ROHNC	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 12/5/2025	DATE - 12/05/2025	REVISED -

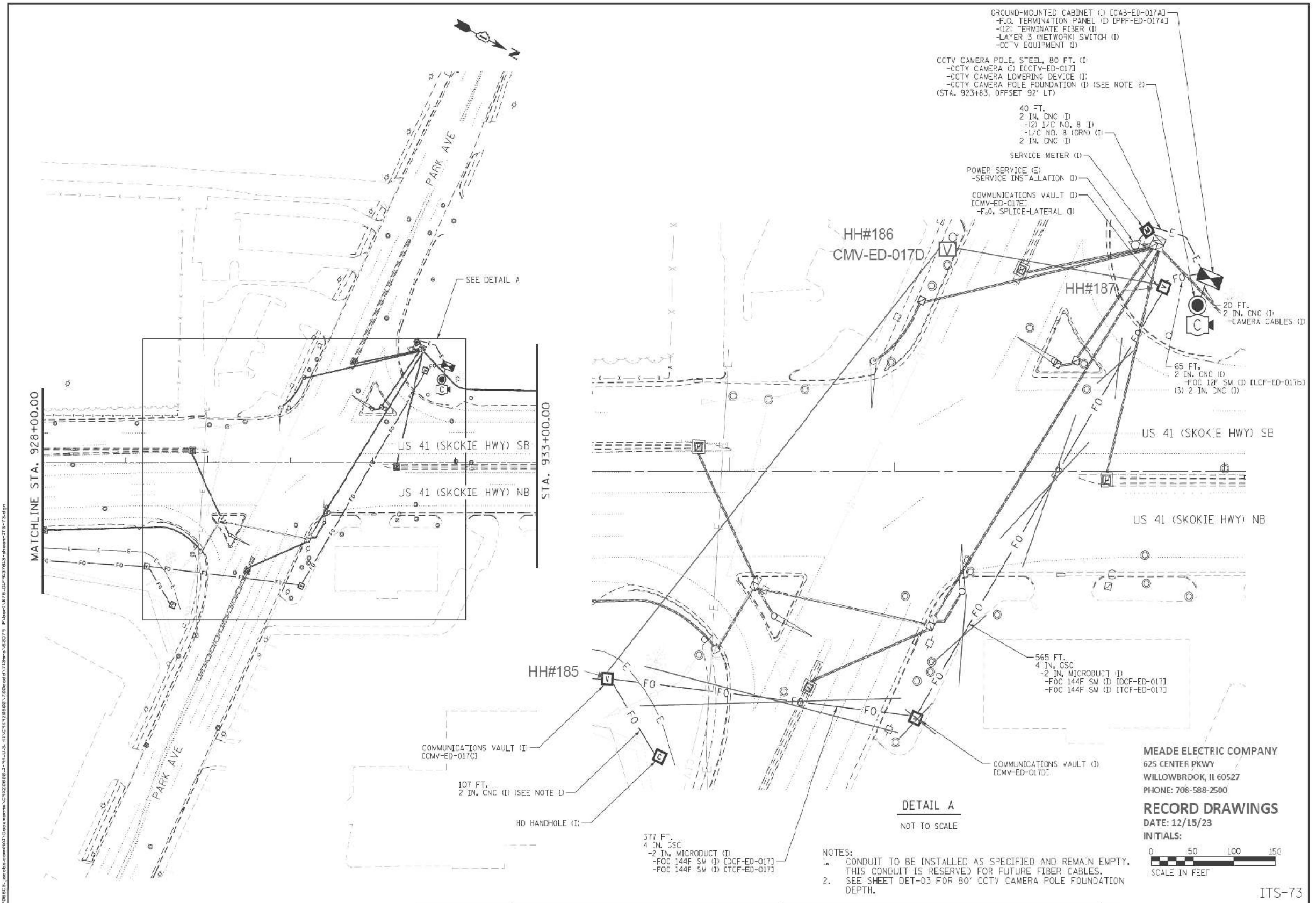
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

AS BUILTS LIGHTING CONTROLLER T	
SCALE: NTS	SHEET 19 OF 20 SHEETS STA. TO STA.

F.A.I. RATE:	SECTION:	COUNTY:	TOTAL SHEETS:	SHEET NO.:
US41	2024-960-LT	LAKE	50	34
CONTRACT NO. 62W78			ILLINOIS FED. AID PROJECT	

LT-24

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	USER NAME = BREITEMF	DESIGNED - J.L.Z	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTELLIGENT TRANSPORTATION SYSTEMS CONSTRUCTION PLANS	F.A.I. RATE = 94	SECTION = 2016-0631	COUNTY = COOK/LAKE	TOTAL SHEETS = 308	SHEET NO. = 151		
	PLOT SCALE =	DRAWN - HAR	REVISED -			SCALE: 1" = 50'	SHEET 73 OF 82 SHEETS STA. TO STA.	CONTRACT NO. 62079 ILLINOIS FED. AID PROJECT				
	PLOT DATE = 7/19/2021	CHECKED - CRH	REVISED -			MEADE ELECTRIC COMPANY 625 CENTER PKWY WILLOWBROOK, IL 60527 PHONE: 708-588-2500 RECORD DRAWINGS DATE: 12/15/23 INITIALS:						
		DATE - 02/28/2020	REVISED -			DETAIL A NOT TO SCALE 0 50 100 150 SCALE IN FEET ITS-73						

FOR INFORMATION ONLY



USER NAME = ROHNC	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/5/2025	DATE - 12/05/2025	REVISED -

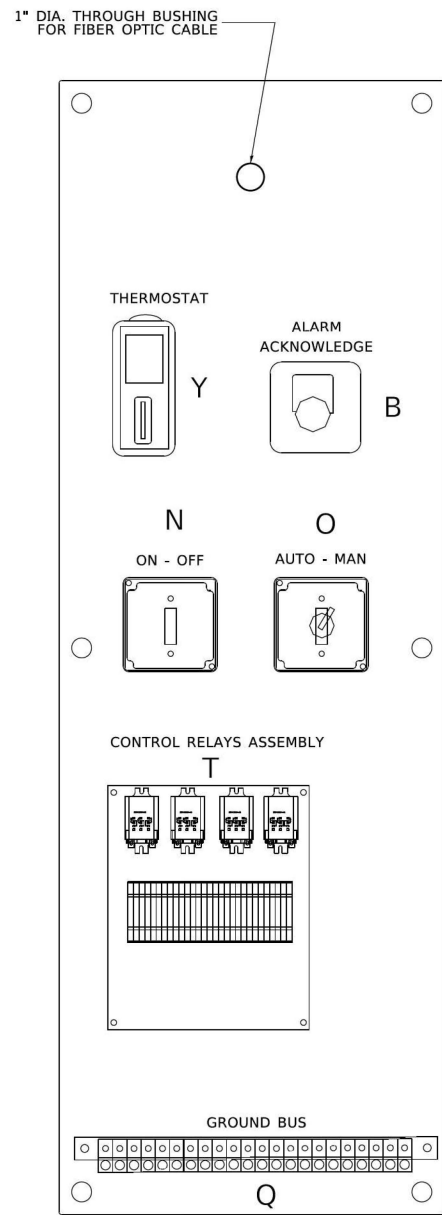
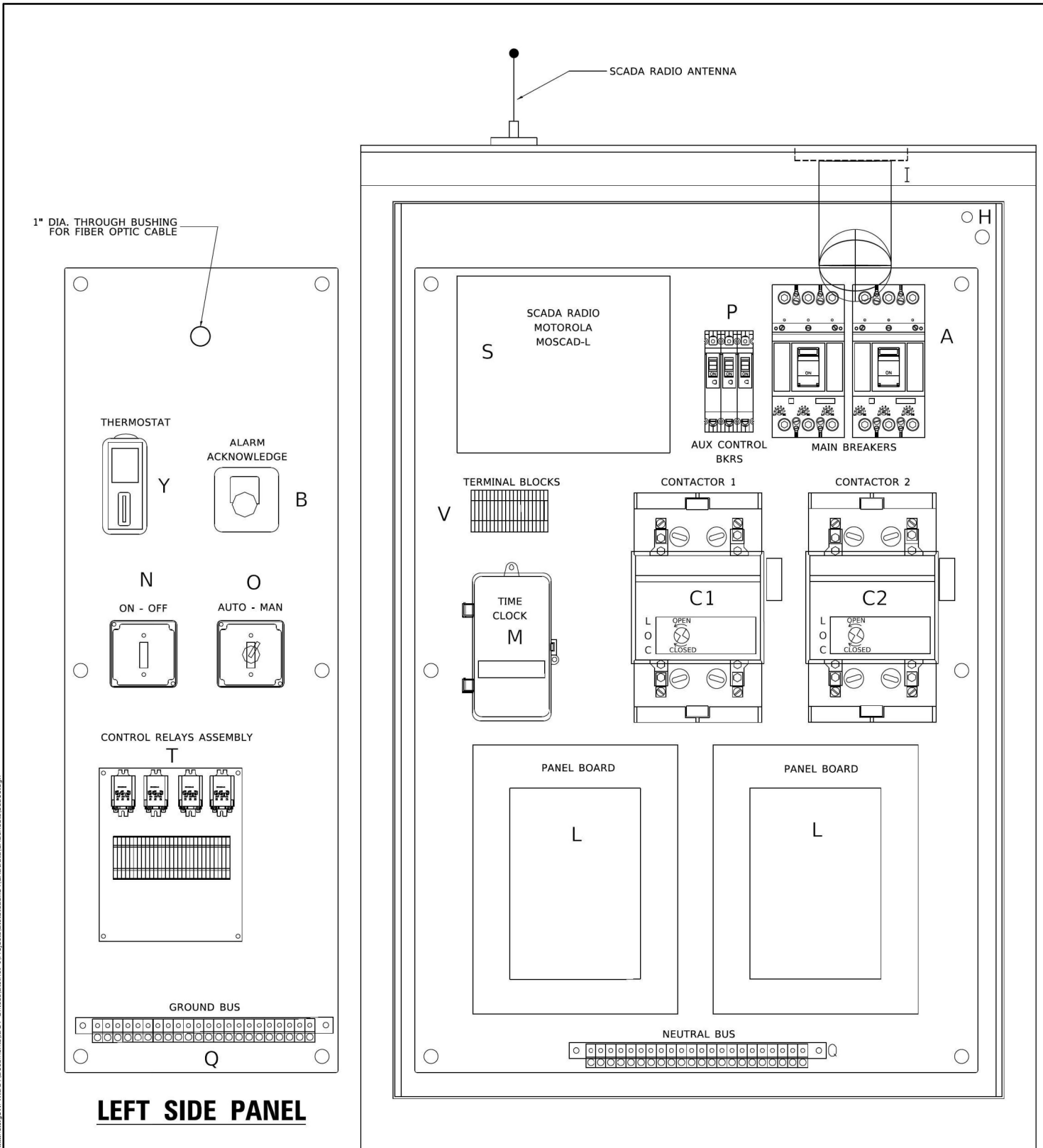
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS BUILTS LIGHTING CONTROLLER T		
SCALE: NTS	SHEET 19 OF 20 SHEETS	STA. TO STA.

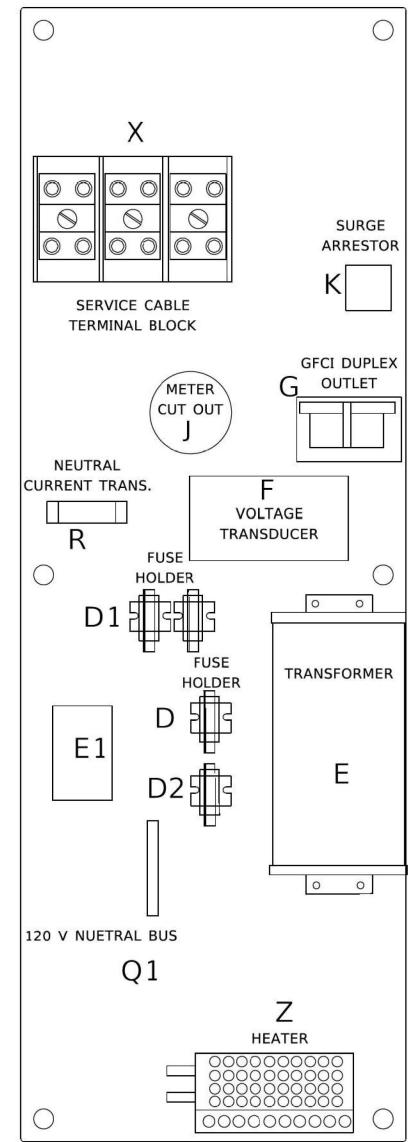
F.A.I. RATE = US41	SECTION = 2024-960-LT	COUNTY = LAKE	TOTAL SHEETS = 50	SHEET NO. = 35
CONTRACT NO. 62W78 ILLINOIS FED. AID PROJECT				

LT-25

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LEFT SIDE PANEL



RIGHT SIDE PANEL

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 - 1/2 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 TRANSUDCER 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 ARRESTOR
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 TRANSUDCER
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

USER NAME = leysa	DESIGNED - B. TOMSONS	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		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE	SHEET 1 OF 4 SHEETS	BE-206		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT				

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	36
CONTRACT NO. 62W78				

Model Default
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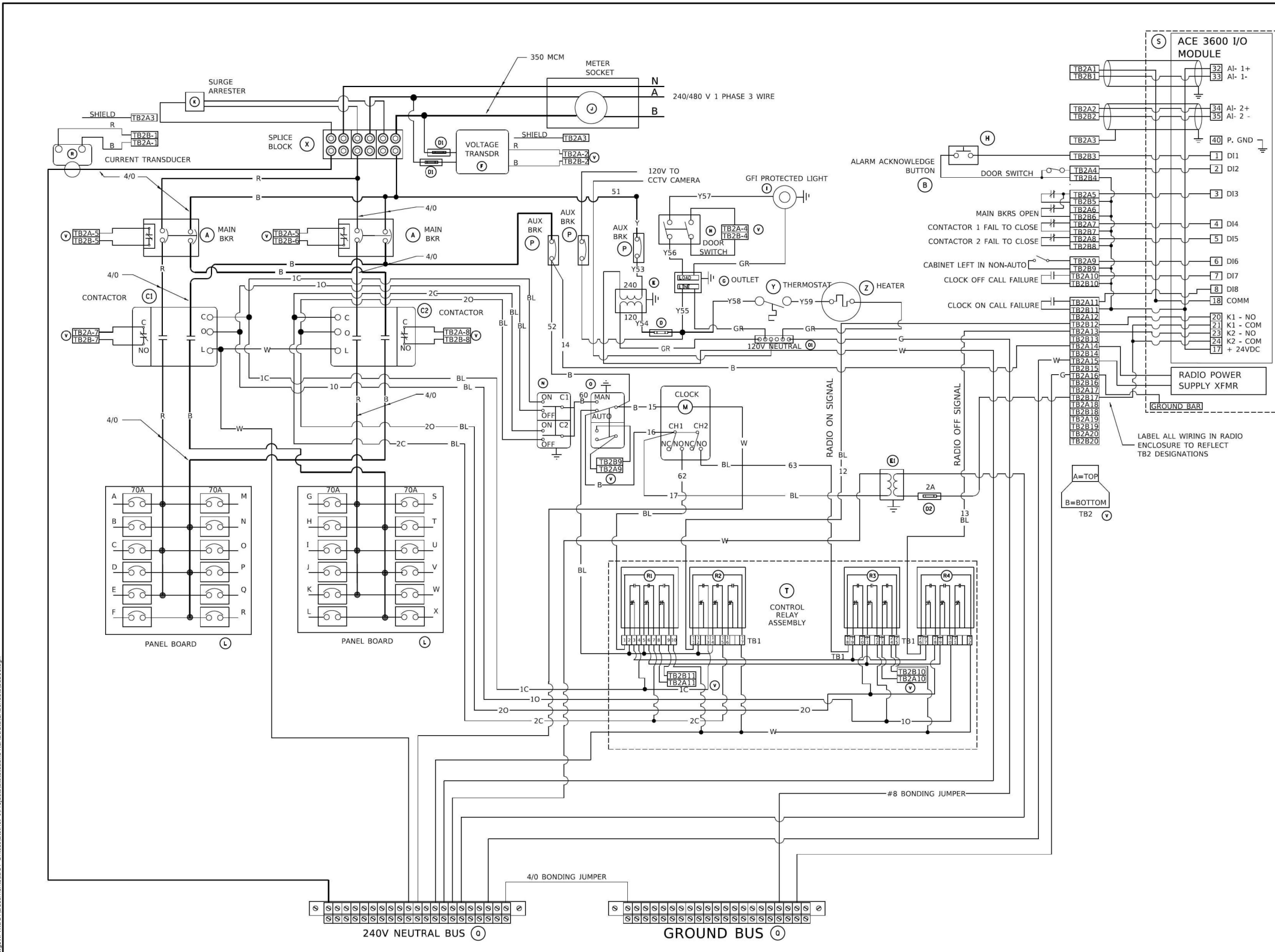
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PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 12/05/2025	DATE - 12/05/2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NTS	SHEET 1 OF 15 SHEETS	ILLINOIS		FED. AID PROJECT		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	36
CONTRACT NO. 62W78				

STD-01



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 - 1/2 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, 9001K511BH13, 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

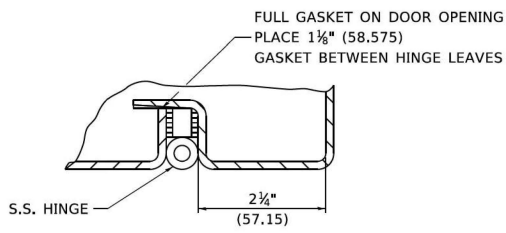
* TERMINALS SHALL BE COVERED WITH CLEAR PLEXIGLASS SHEET

USER NAME = leysa PLOT SCALE = 50.0000' / in. PLOT DATE = 1/15/2020	DESIGNED - BL TOMSONS DRAWN - CHECKED - DATE - 01-15-2020	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL) RADIO SCADA - FIBER OPTIC PROVISION	F.A. - SECTION BE-206 COUNTY CONTRACT NO.	TOTAL SHEETS SHEET NO.
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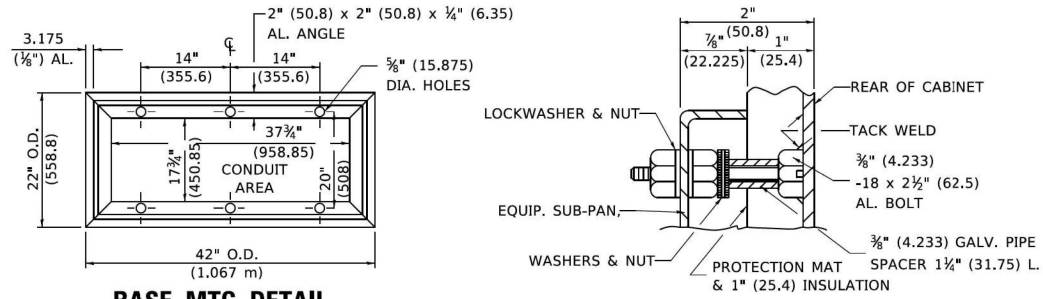
Jacobs USER NAME = ROHNC PLOT SCALE = PLOT DATE = 12/5/2025	DESIGNED - DRAWN - CHECKED - DATE - 12/05/2025	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS	F.A. I SECTION COUNTY CONTRACT NO. 62W78	TOTAL SHEETS SHEET NO. 37
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PROJECT: ILLINOIS DEPARTMENT OF TRANSPORTATION - LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL) RADIO SCADA - FIBER OPTIC PROVISION
 SHEET: 50 OF 50 SHEETS
 DATE: 12/05/2025
 DRAWN BY: ROHNC
 CHECKED BY: ROHNC
 DATE: 12/05/2025

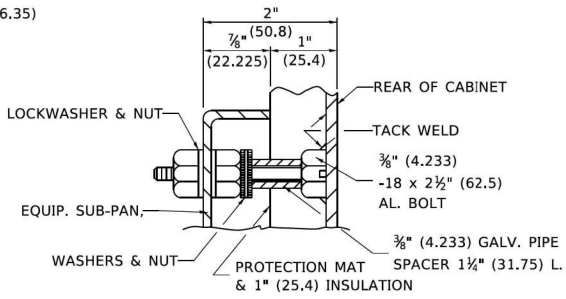
STD-02



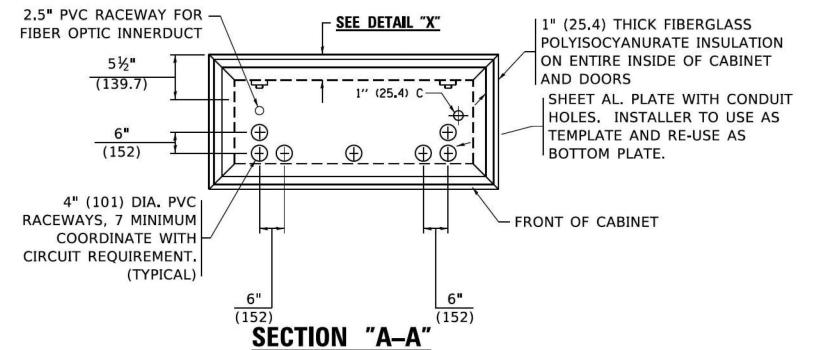
DETAIL "Y"



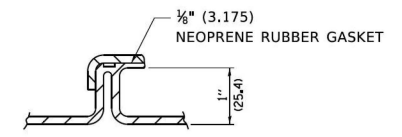
BASE MTG. DETAIL



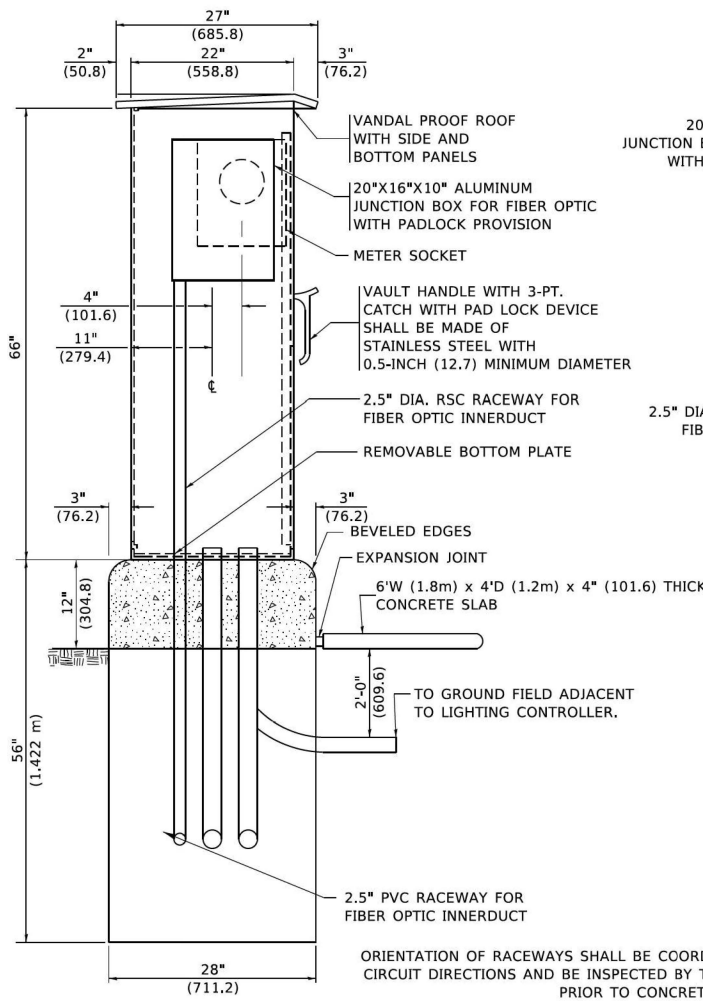
DETAIL "X"



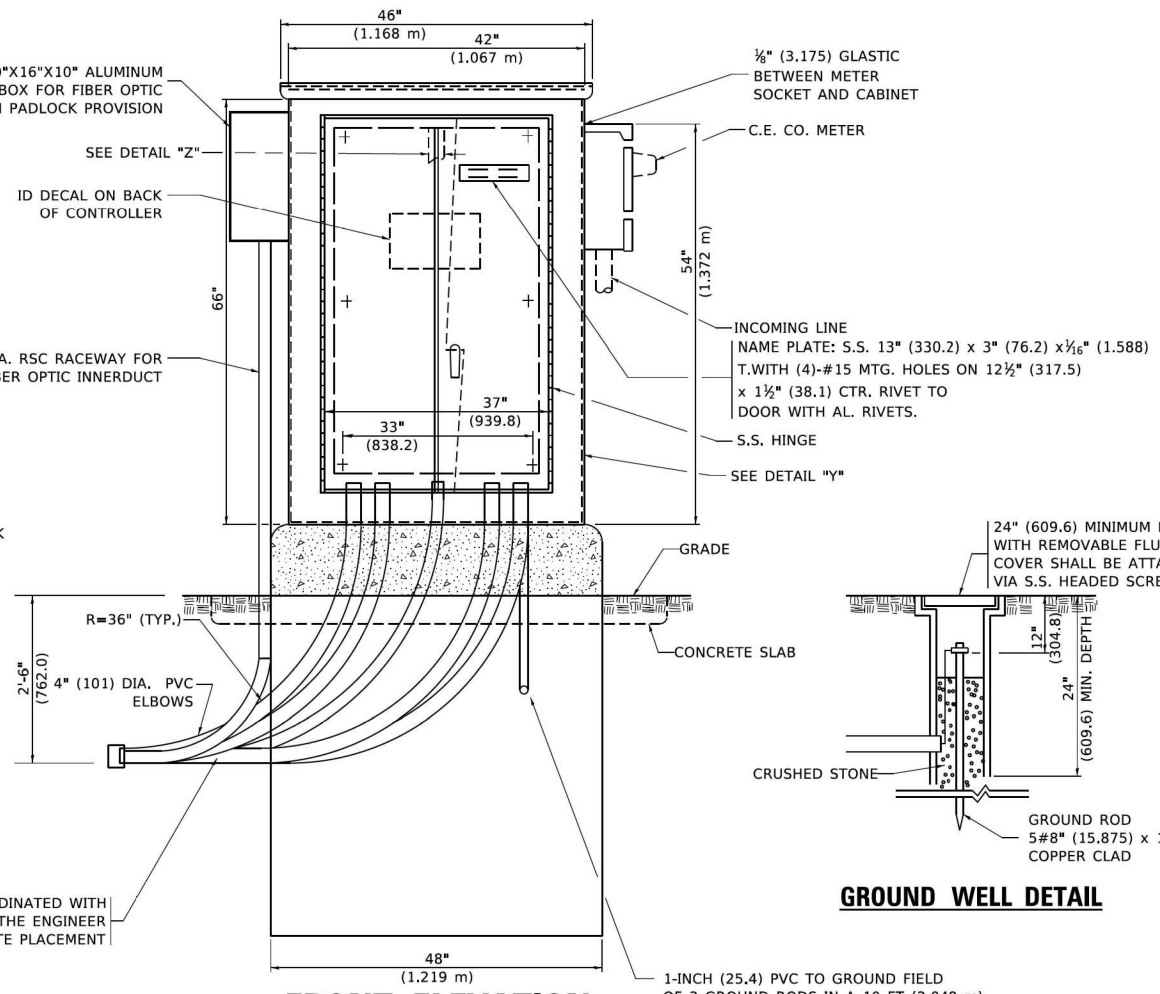
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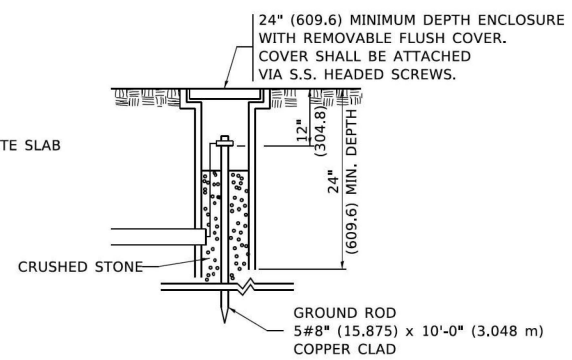
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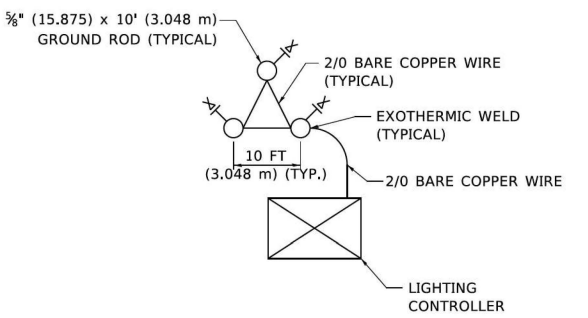
LEFT SIDE ELEVATION



FRONT ELEVATION



GROUND WELL DETAIL



GROUND FIELD DETAIL (N.T.S.)

THE CONTRACTOR SHALL VERIFY EXACT LOCATION WITH THE ENGINEER

USER NAME = leysa	DESIGNED - B. TOMSONS	REVISED -
PLOT SCALE = 50.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/15/2020	CHECKED -	REVISED -
	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 3 OF 4 SHEETS STA. TO STA.

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

USER NAME = ROHNG	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 12/05/2025	CHECKED -	REVISED -
	DATE - 12/05/2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IDOT D1-BUREAU OF
ELECTRICAL DETAIL STANDARDS**

SCALE: NTS SHEET 3 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	38
			CONTRACT NO. 62W78	
			ILLINOIS FED. AID PROJECT	

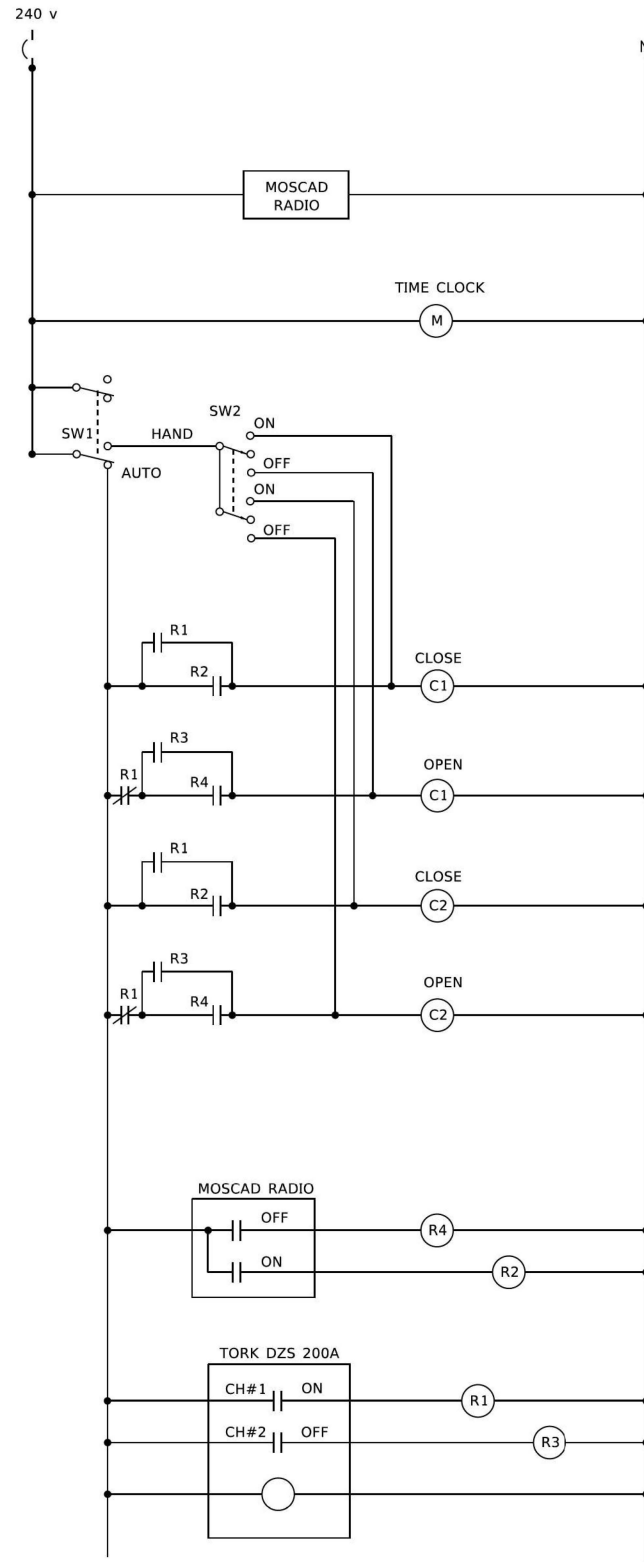
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NOTES

- CABINET SHALL BE FABRICATED FROM 0.125-INCH (3.175) SHEET ALUMINUM #3003H14, FORMED AND ARC WELDED.
- ALL SCREWS AND HARDWARE SHALL BE PLATED, GALVANIZED, OR MADE OF BRASS, ALUMINUM OR STAINLESS STEEL, UNLESS OTHERWISE NOTED.
- NAME PLATE SHALL HAVE ENGRAVED 0.75-INCH (19.05) HIGH LETTERS FILLED IN BLACK: "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.
- ONE INCH THICK POLYISOCYANURATE INSULATION SHALL BE INSTALL AND PERMANENTLY CEMENTED ON ALL SIDES OF THE CABINET AND DOORS.
- CABINET SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- ELECTRIC UTILITY METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET AS SHOWN ON THE PANEL LAYOUT DIAGRAM.
- THE COMPLETED CONTROLLER SHALL BE U.L. LISTED AS AN INDUSTRIAL CONTROL PANEL UNDER UL508.
- 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.
- CIRCUIT BREAKERS AND CONTACTORS AND OTHER COMPONENTS SHALL BE MOUNTED ON 0.125-INCH (3.175) THICK GLASTIC INSULATION BACK PANEL.
- ALL DEVICES SHALL BE FRONT REMOVABLE.
- TIME CLOCK CHANNEL 1 N.O. CONTACT IS CLOSED NIGHT AND OPEN DAY (LIGHTS ON).
- 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.)
- 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.
- ALL LUGS SHALL BE OF COPPER SCREWS AND CONNECTORS, SPRING HELD.
- ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE CENTIGRADE.
- ALL CONTROL WIRING SHALL BE 600V #12 TYPE MTW. SCADA WIRING SHALL BE #18.
- ALL POWER WIRING SHALL BE 600V TYPE RHH/RHW.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:

R = RED	Y = YELLOW
B = BLACK	W = WHITE
BL = BLUE	G = GREEN
	GR = GREY
- 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.
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
- SCHEMATIC SHOWN WITH BREAKER OPEN, CONTACTOR OPEN, CABINET DOOR CLOSED, CLOCK NOT ACTIVE (DE-ENERGIZED STATE).
- 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 V43E

USER NAME = leysa	DESIGNED - B. TOMSONS	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 4 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	39
BE-206		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

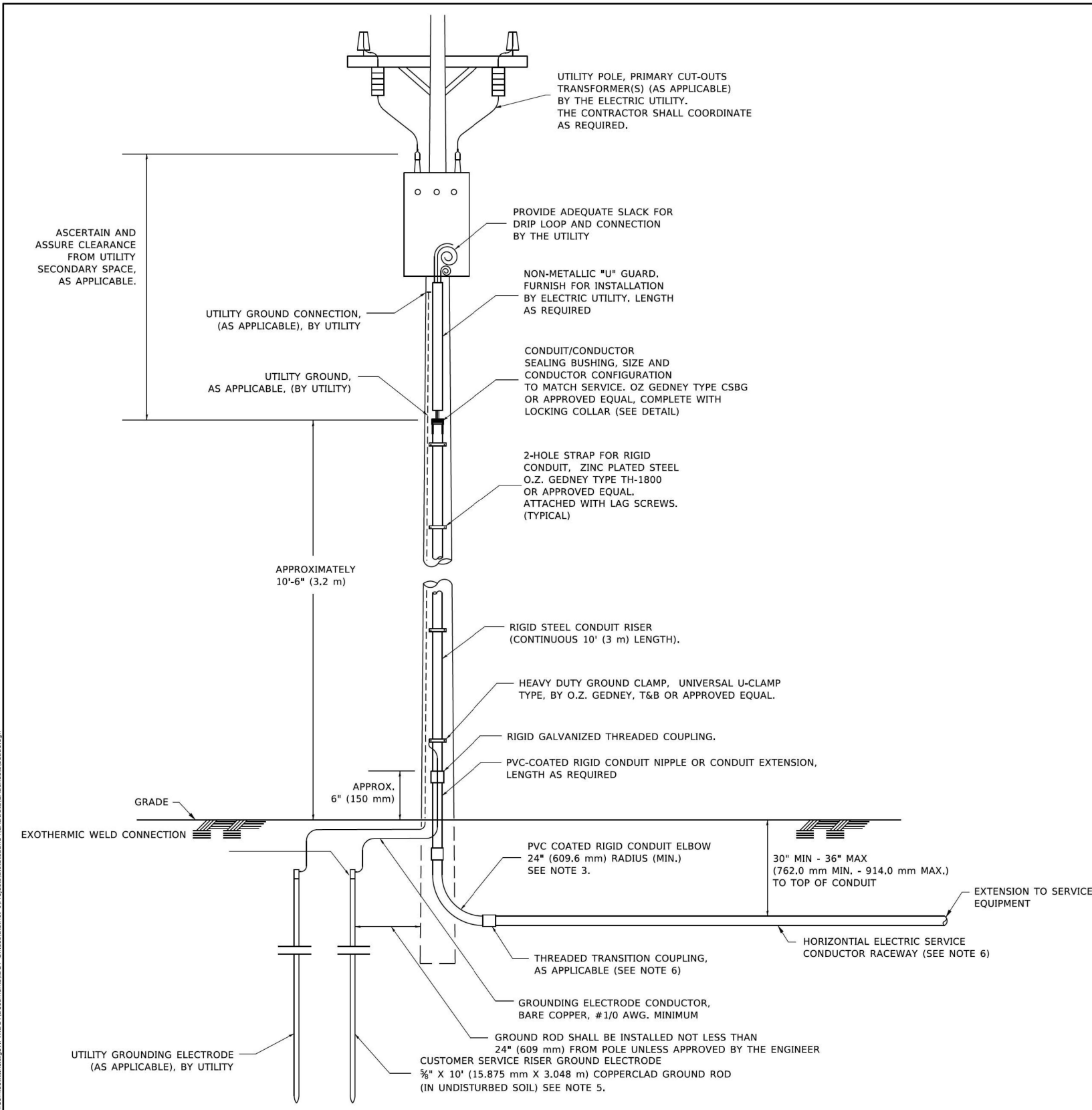


USER NAME = ROHNG	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 12/5/2025	DATE - 12/05/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT D1-BUREAU OF
ELECTRICAL DETAIL STANDARDS
SCALE: NTS SHEET 4 OF 15 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	39
		CONTRACT NO. 62W78		
ILLINOIS FED. AID PROJECT				

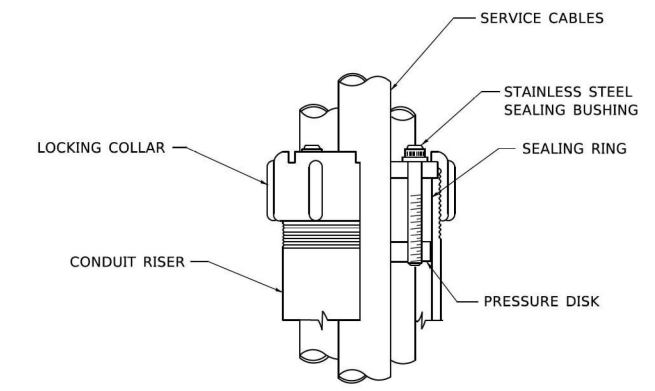


APPLICATION

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

NOTES

- SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
- UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
- CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
- 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.
- 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.
- 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.
- 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.



USER NAME = foatemj	DESIGNED -	REVISED - 03-03-06
PLOT SCALE = 50.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 4/19/2019	CHECKED - MEA	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE		BE-220		CONTRACT NO.		
SHEET 1 OF 1 SHEETS		ILLINOIS FED. AID PROJECT				

USER NAME = ROHNC	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 12/5/2025	CHECKED -	REVISED -
	DATE - 12/05/2025	REVISED -

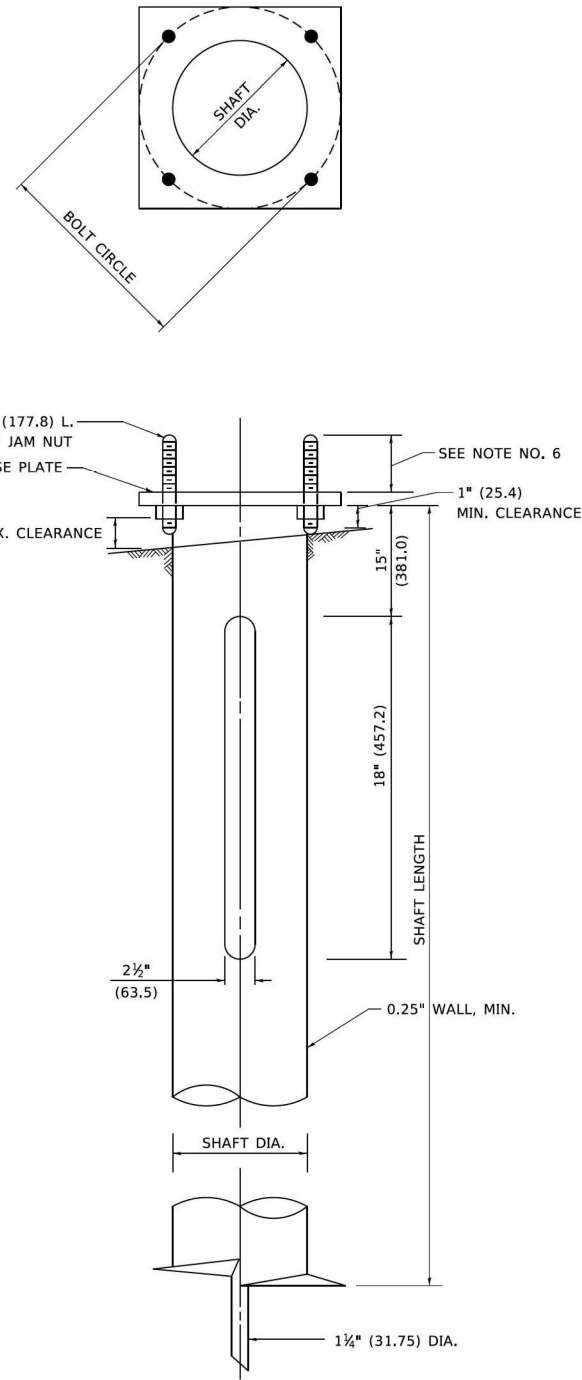
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NTS		US41 2024-960-LT		LAKE 50 40		
SHEET 5 OF 15 SHEETS		CONTRACT NO. 62W78				
		ILLINOIS FED. AID PROJECT				

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STD-05



HELIX FOUNDATION SIZE

POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.	11 1/2"	8 5/8"	6 FT.	12"x12"x1"
31 FT.-35 FT.	11 1/2"	8 5/8"	6 FT.	12"x12"x1"
36 FT.-40 FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
41 FT.-45 FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
46 FT.-50 FT.	15"	10"	8 FT.	15"x15"x1 1/4"

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

- ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- ALL MATERIAL SHALL BE GALVINIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
- 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.
- 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.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
- THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
- ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
- METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDATION IS NOT ALLOWED.
- 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.
- THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS ($\pm 1^\circ$) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC (± 0.188) TO THE SHAFT AXIS.
- THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC (± 0.125) AND IN LINE ($\pm 2^\circ$).
- THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.

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 USER: footej
 DATE: 02-27-07

USER NAME = footej	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHT POLE FOUNDATION, METAL	F.A.I R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 50,0000 ' / in.	DRAWN - DLB	REVISED -			SCALE: NONE	SHEET 1 OF 1 SHEETS	STA.	TO STA.	BE-305	CONTRACT NO.
PLOT DATE = 4/19/2019	CHECKED -	REVISED -			ILLINOIS	FED. AID PROJECT				
	DATE - 02-27-07	REVISED -								

USER NAME = ROHNC	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 12/5/2025	CHECKED -	REVISED -
	DATE - 12/05/2025	REVISED -

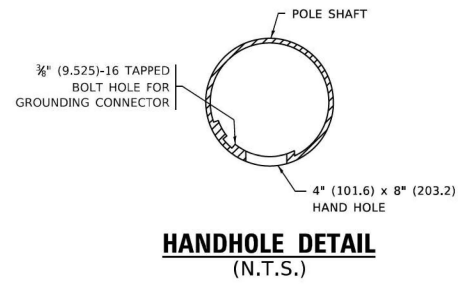
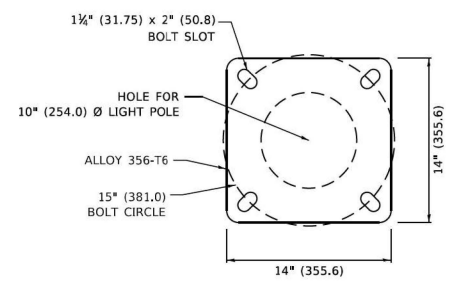
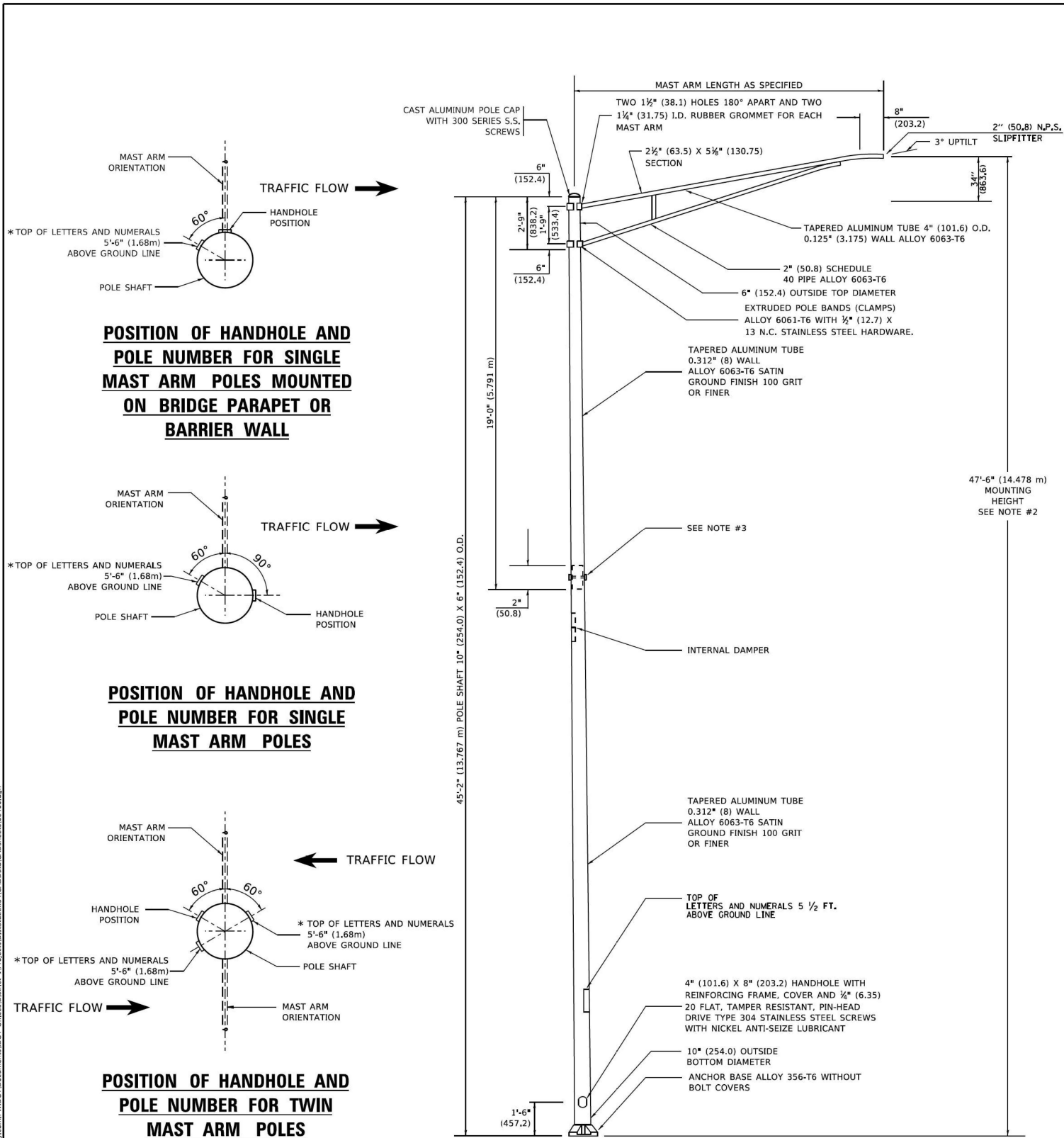
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS		
SCALE: NTS	SHEET 6 OF 15 SHEETS	STA. TO STA.

F.A.I R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	41
			CONTRACT NO. 62W78	
		ILLINOIS	FED. AID PROJECT	

STD-06

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 USER: footej
 DATE: 02-27-07
 MODEL: Default



- ### 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.

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 TITLE: 47'-6" MOUNTING HEIGHT LIGHT POLE
 DATE: 12/19/2023
 USER: ROHNG

USER NAME = Lawrence_DeManche	DESIGNED -	REVISED - R. TOMSONS 01-18-13
	DRAWN -	REVISED - R. TOMSONS 03-18-15
PLOT SCALE = 100.0000" / in.	CHECKED -	REVISED - TG 06-13-22
PLOT DATE = 12/19/2023	DATE -	REVISED - R. TOMSONS 12-19-23

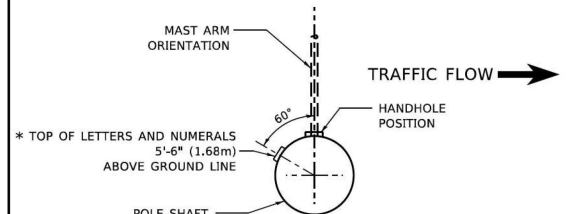
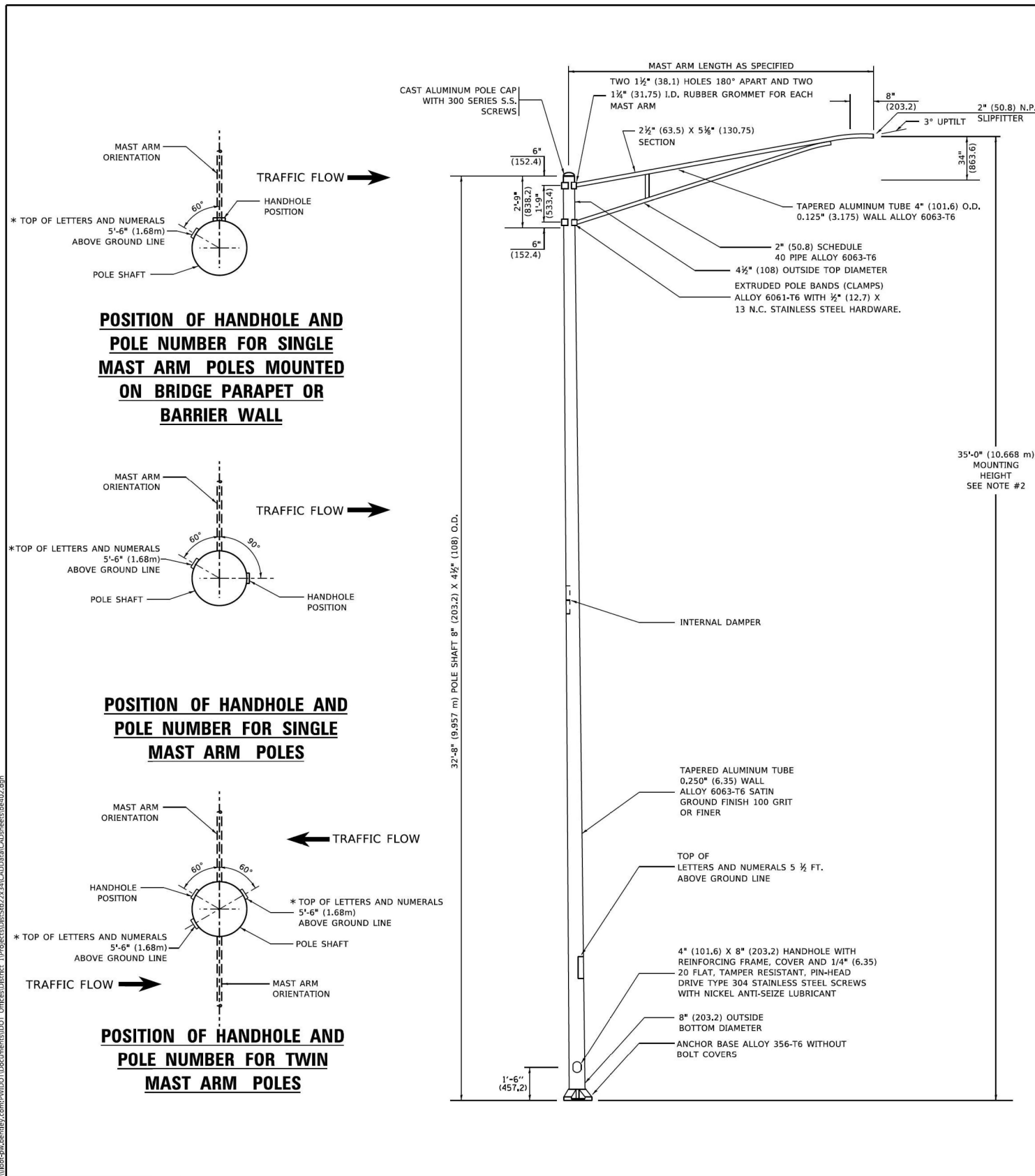
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ALUMINUM LIGHT POLE			F.A. RTE.		SECTION		COUNTY		TOTAL SHEETS	SHEET NO.
47'-6" (14.478 m) MOUNTING HEIGHT										
			BE-400		CONTRACT NO.					
SCALE: NONE			SHEET 1	OF 1 SHEETS	STA.					

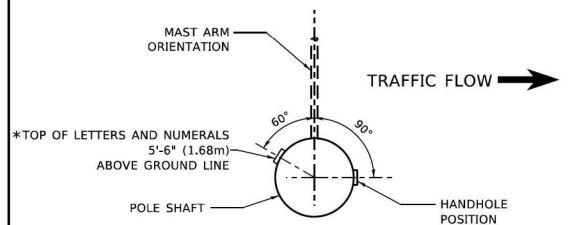
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	DRAWN -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 12/5/2025	DATE - 12/05/2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

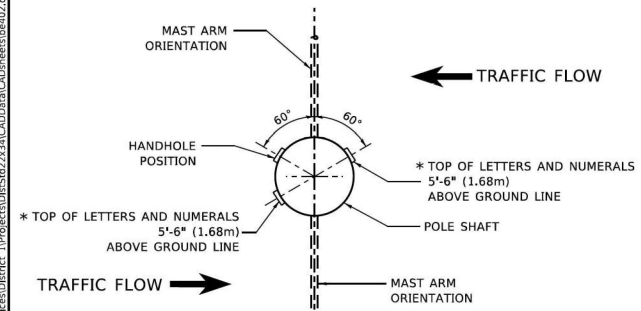
IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS			F.A. RTE.		SECTION		COUNTY		TOTAL SHEETS	SHEET NO.
SCALE: NTS			SHEET 7	OF 15 SHEETS	STA.					
			ILLINOIS		CONTRACT NO.		62W78			



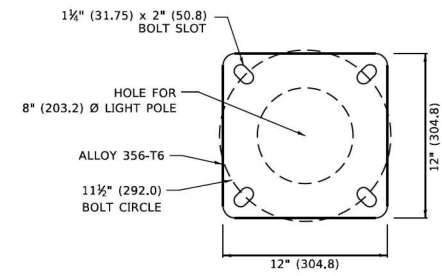
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL



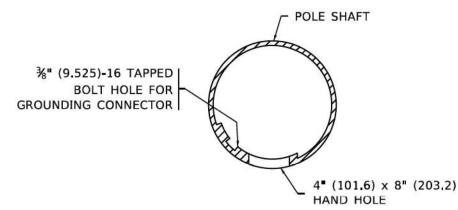
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES



LIGHT POLE BASE PLATE DETAIL
11 1/2" (292.0) 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. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
4. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
5. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
6. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
7. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.

USER NAME = Lawrence_DeManche	DESIGNED -	REVISED - R. TOMSONS 09-02-03
PLOT SCALE = 100.0000" / in.	DRAWN -	REVISED - R. TOMSONS 01-18-13
PLOT DATE = 12/19/2023	CHECKED -	REVISED - TG 06-13-22
	DATE -	REVISED - R. TOMSONS 12-19-23

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ALUMINUM LIGHT POLE		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
35'-0" (10.668 m) MOUNTING HEIGHT						
SCALE: NONE		SHEET 1 OF 1 SHEETS		STA.	TO STA.	

BE-402		CONTRACT NO.	
ILLINOIS		FED. AID PROJECT	

STD-08

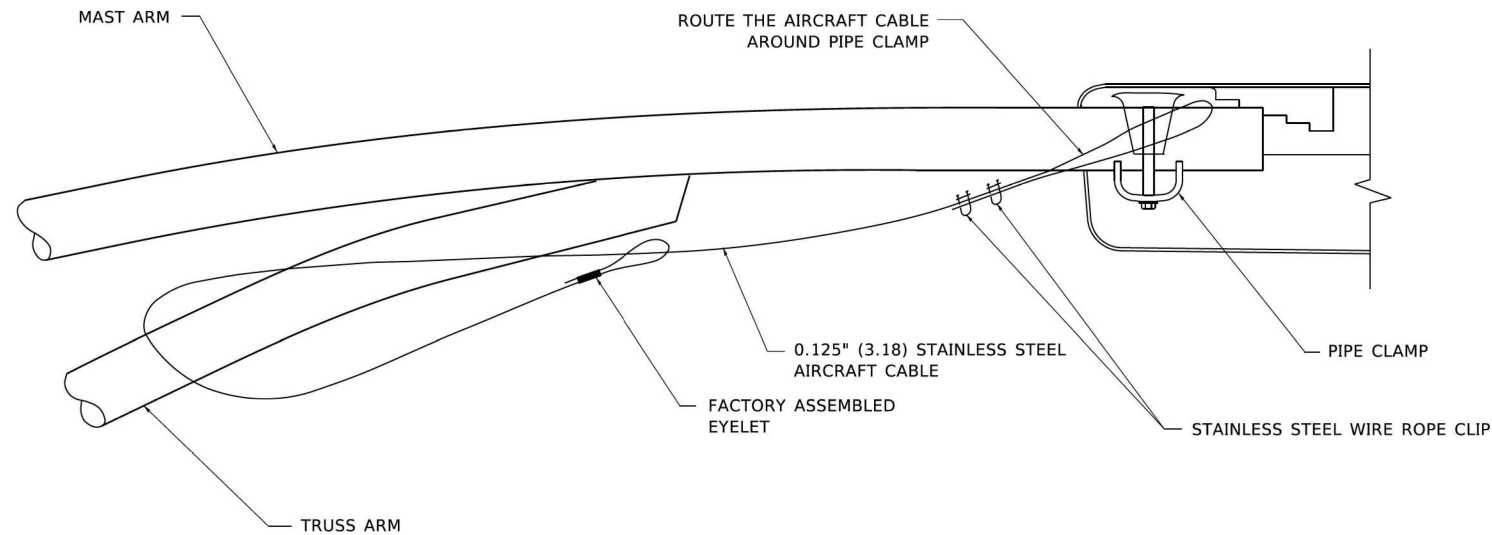


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PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 12/05/2025	CHECKED -	REVISED -
	DATE -	REVISED -

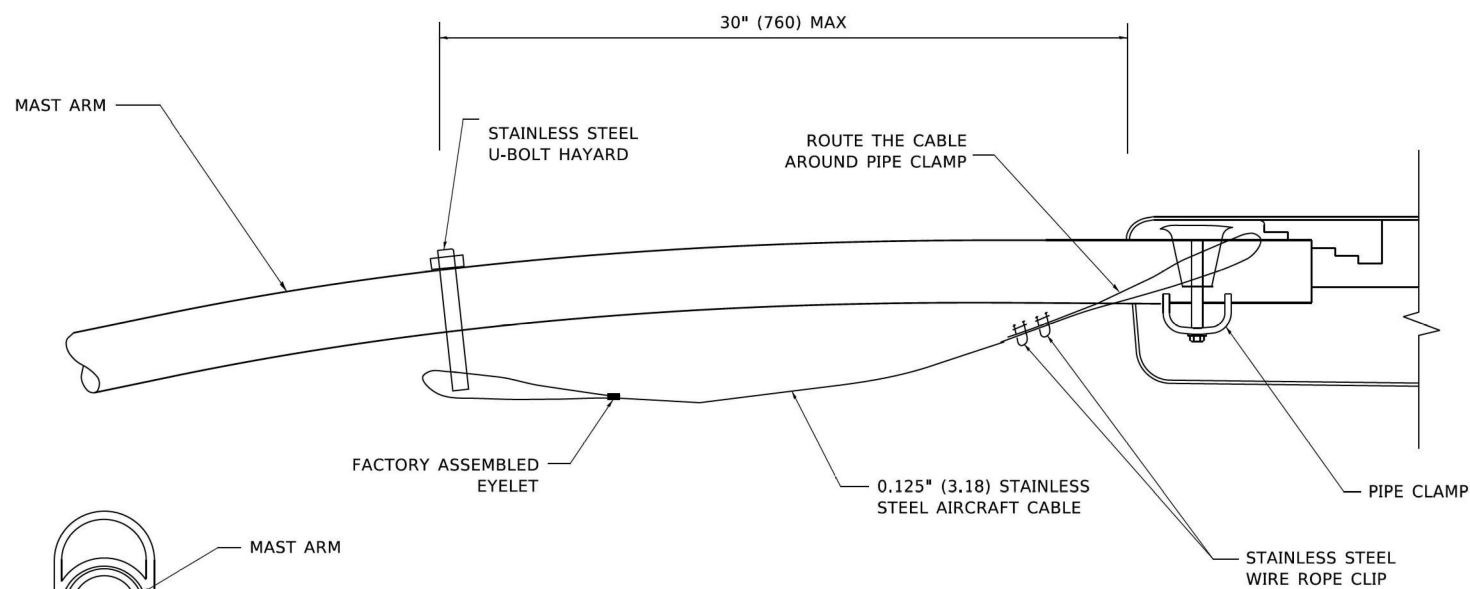
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IDOT D1-BUREAU OF		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ELECTRICAL DETAIL STANDARDS						
SCALE: NTS		SHEET 8 OF 15 SHEETS		STA.	TO STA.	

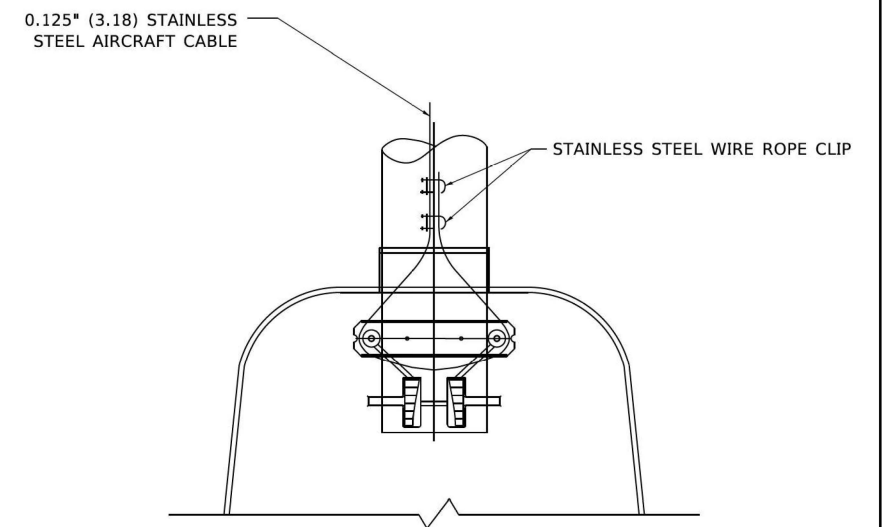
US41		2024-960-LT		LAKE	50	43
ILLINOIS		FED. AID PROJECT		CONTRACT NO. 62W78		



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



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



BOTTOM VIEW
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.

MODEL: D:\rout\...
 FILE: ...
 PLOT DATE: ...

USER NAME = footej	DESIGNED -	REVISED - 08-08-03
PLOT SCALE = 50.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 4/19/2019	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUMINAIRE SAFETY CABLE ASSEMBLY
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	44

STD-09

Project: ...
 U.S. 41 ...
 U.S. 41 ...

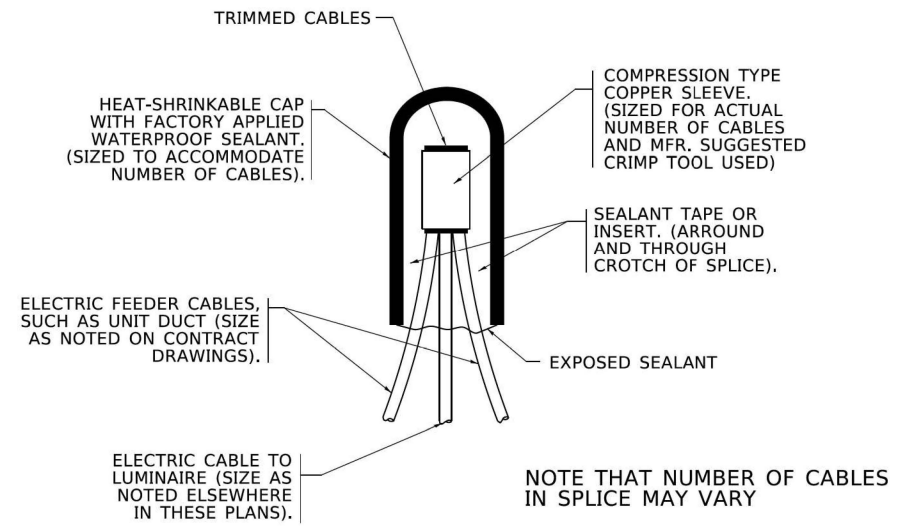


USER NAME = ROHNC	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 12/5/2025	CHECKED -	REVISED -
	DATE - 12/05/2025	REVISED -

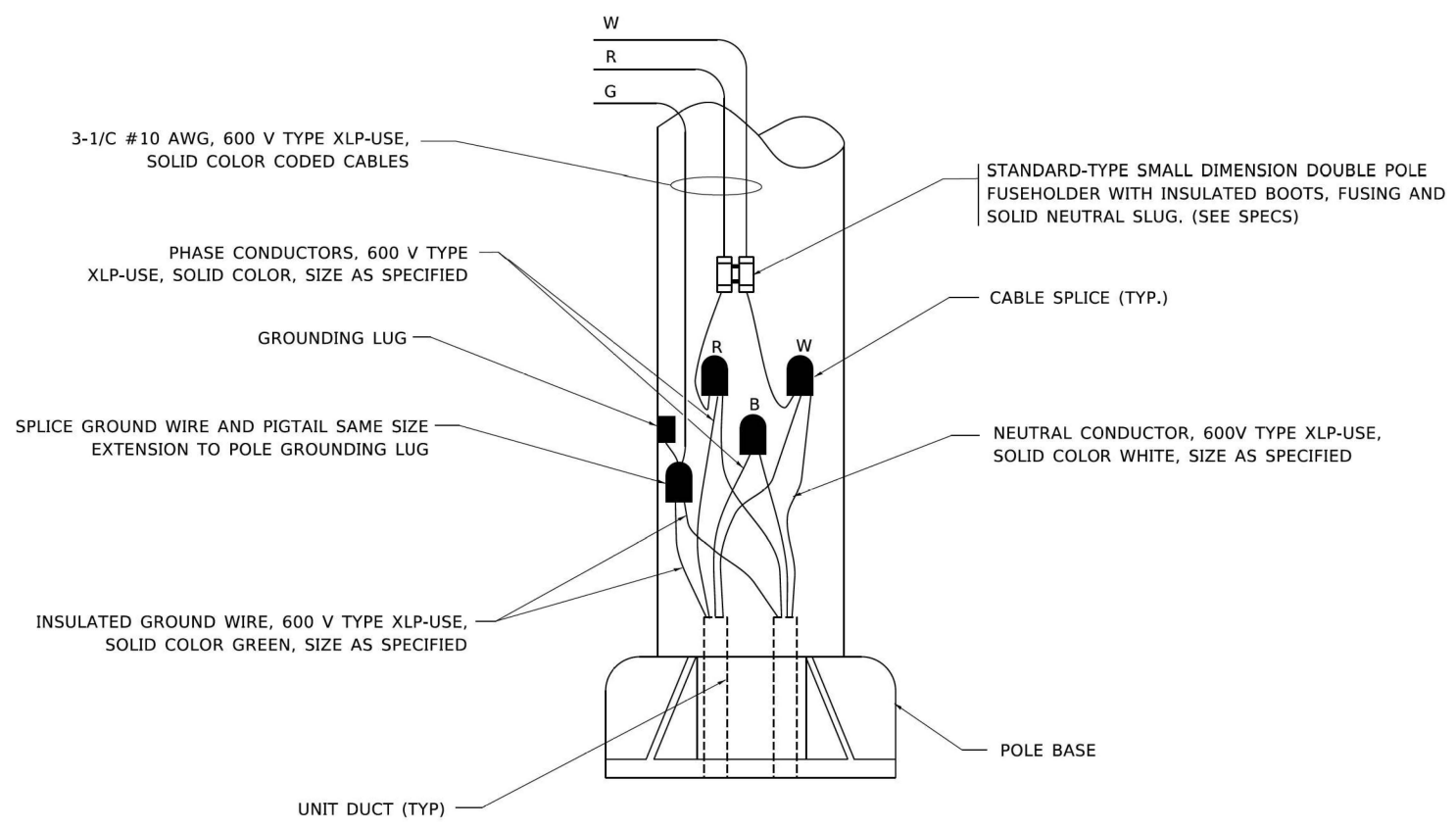
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT D1-BUREAU OF
ELECTRICAL DETAIL STANDARDS
SCALE: NTS SHEET 9 OF 15 SHEETS STA. TO STA.

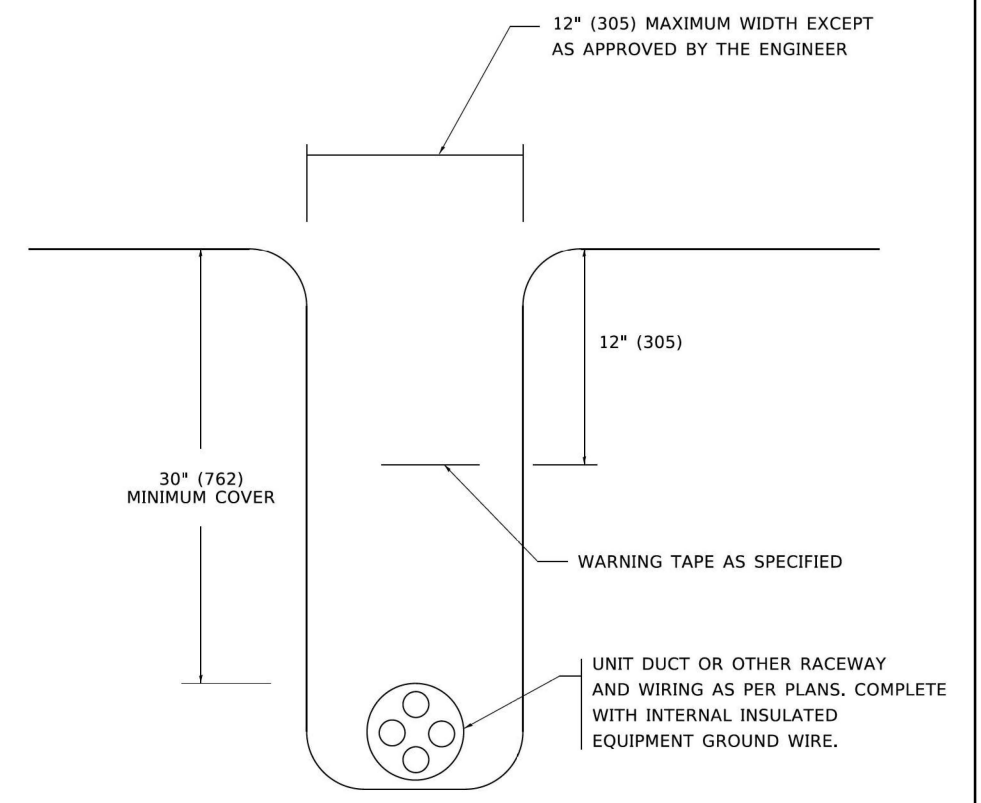
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	44



TYPICAL SPLICE DETAIL
N.T.S.



POLE WIRING DETAIL
N.T.S.



TYPICAL WIRING IN TRENCH DETAIL
N.T.S.

USER NAME = jeysa	DESIGNED -	REVISED - 02/04/2020	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISC. ELECTRICAL DETAILS SHEET A			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 50,0000' / in.	DRAWN -	REVISED -		SCALE: NONE	SHEET 1	OF 1 SHEETS	STA.	TO STA.	BE-702	CONTRACT NO.	
PLOT DATE = 3/2/2020	CHECKED -	REVISED -							ILLINOIS	FED. AID PROJECT	
	DATE - 08/08/2003	REVISED -									

STD-10



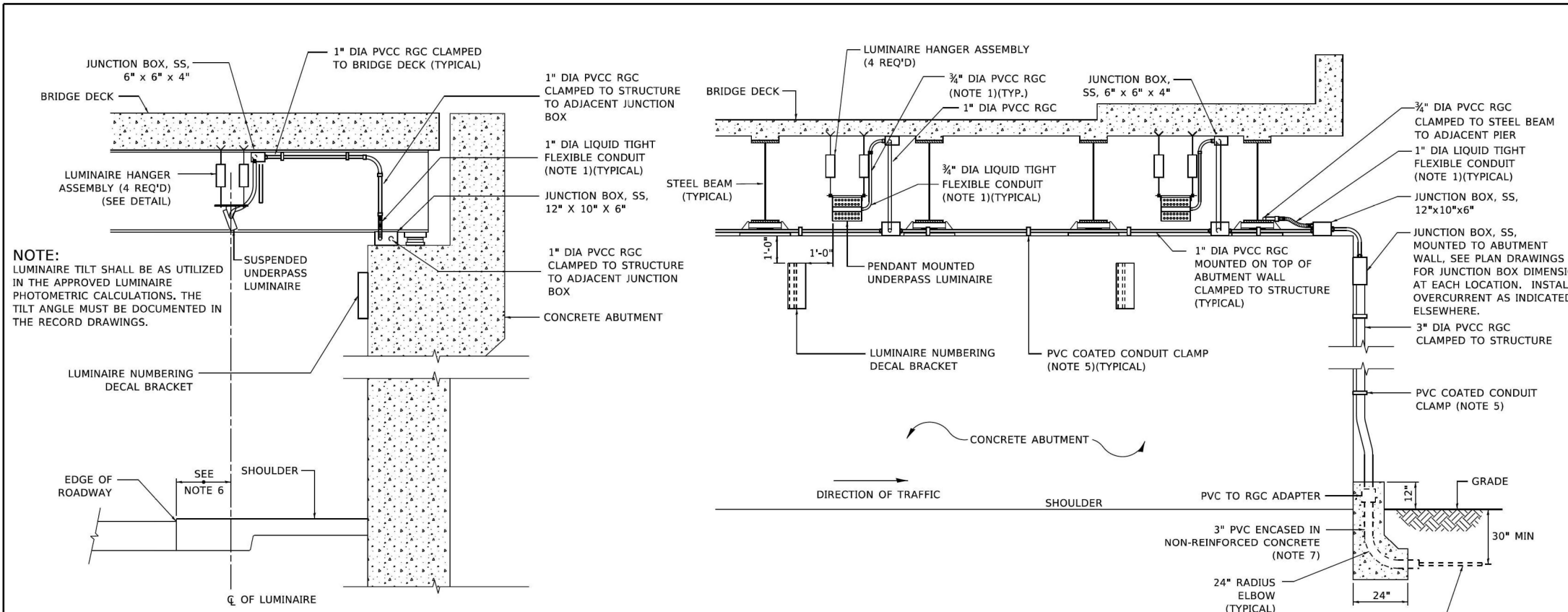
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	DRAWN -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 12/5/2025	DATE - 12/05/2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS		
SCALE: NTS	SHEET 10	OF 15 SHEETS
STA.	TO STA.	

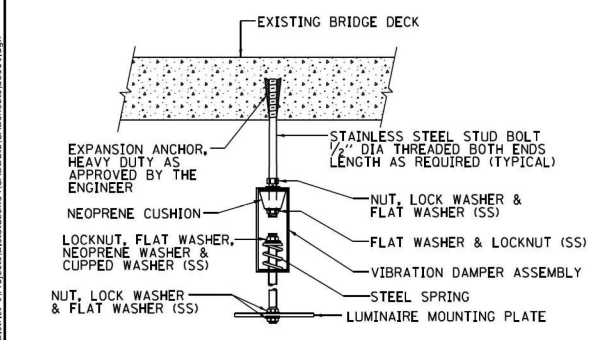
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	45
			CONTRACT NO. 62W78	
		ILLINOIS	FED. AID PROJECT	

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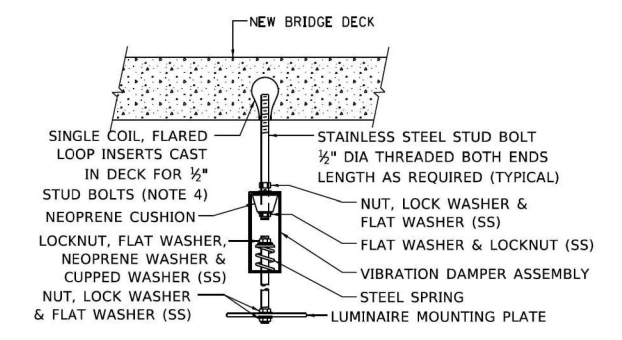


- NOTES:**
- LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE 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.
 - SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LIGHTING LUMINAIRES.
 - 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.
 - 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.
 - 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.
 - 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
 - THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
 - ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.
 - 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).

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

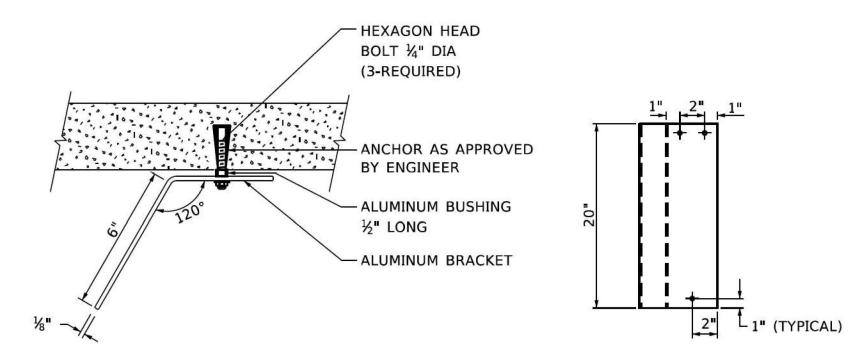


EXISTING BRIDGE DECK INSTALLATION



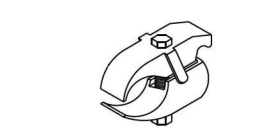
NEW BRIDGE DECK INSTALLATION

TYPICAL LUMINAIRE HANGER ASSEMBLY DETAILS

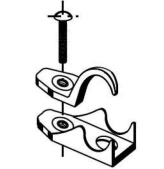


LUMINAIRE NUMBERING DECAL BRACKET

NOT TO SCALE



PVC COATED CONDUIT BEAM CLAMP
NOT TO SCALE



PVC COATED CONDUIT CLAMP
NOT TO SCALE

USER NAME = gqiglanob	DESIGNED -	REVISED - 12-12-05
PLOT SCALE = 100.0000" / in.	DRAWN -	REVISED -
PLOT DATE = 1/15/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS	
SCALE: NONE	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-980-LT	LAKE	50	46
CONTRACT NO. BE-901			ILLINOIS FED. AID PROJECT	

PROJECT: ILLINOIS DEPARTMENT OF TRANSPORTATION - BUREAU OF ELECTRICITY AND TRANSPORTATION - BRIDGE DECK LUMINAIRE INSTALLATION - 12.dwg
 USER: gqiglanob
 DATE: 1/15/2020
 SCALE: 100.0000" / in.
 PLOT DATE: 1/15/2020



USER NAME = ROHNC	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 12/5/2025	CHECKED -	REVISED -
	DATE - 12/05/2025	REVISED -

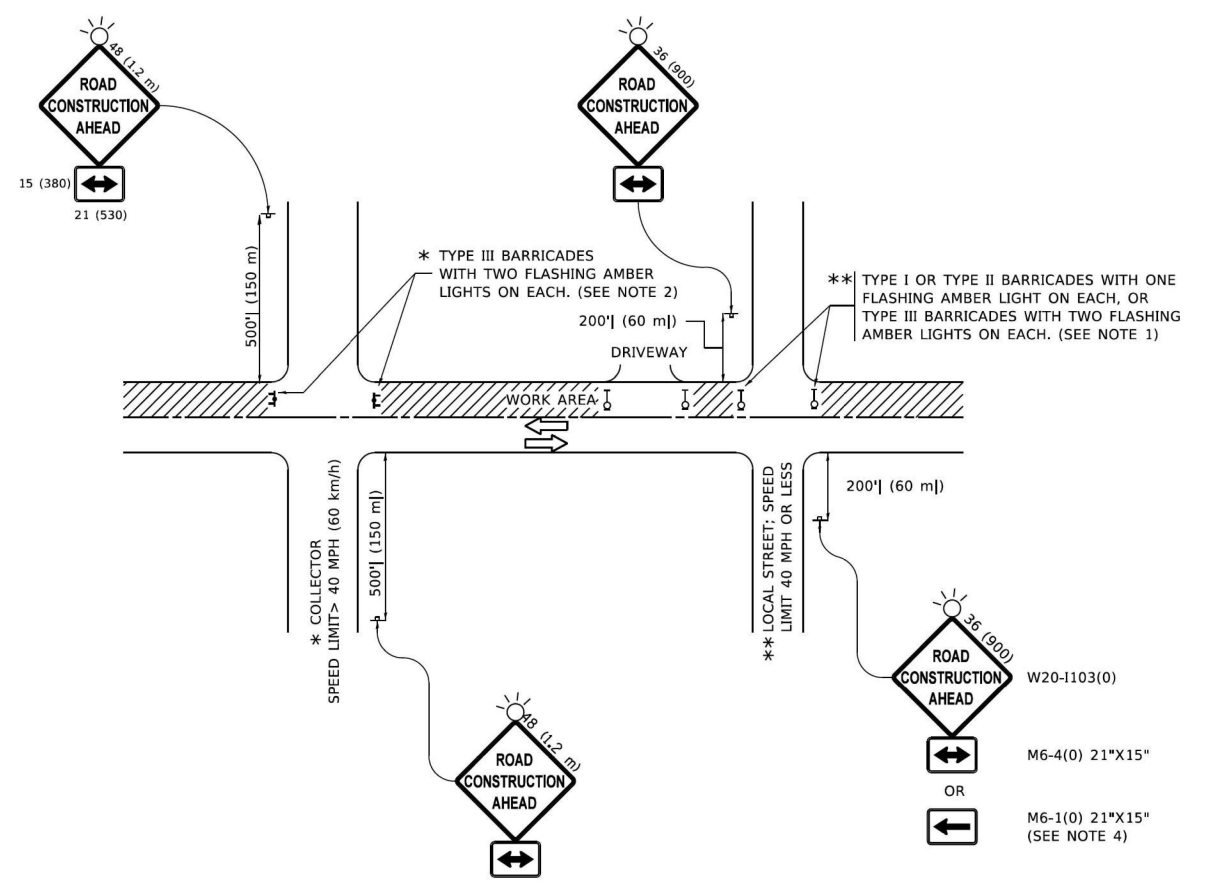
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IDOT D1-BUREAU OF ELECTRICAL DETAIL STANDARDS	
SCALE: NTS	SHEET 11 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-980-LT	LAKE	50	46
CONTRACT NO. 62W78			ILLINOIS FED. AID PROJECT	

Project:\Projects\Illinois\AEMER\jacobs.com\NAIDocuments\CS202600_L04_U.S. 41\CS202600\702600\702600\Lighting Plans (50 Scale)\24\170650_016_0162W78-shh-amand-16.dgn

MODEL: Default
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NOTES:

- 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:
 - 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.
 - 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.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - 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.
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.
- 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.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- 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.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- 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.

USER NAME = Lawrence_DeManche	DESIGNED - L.H.A.	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 100.0000" / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 5/3/2024	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16
		REVISED - D. SENDERAK 05-03-24

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

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

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



USER NAME = ROHNC	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 12/5/2025	DATE - 12/05/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARDS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US41	2024-960-LT	LAKE	50	49
		CONTRACT NO. 62W78		
ILLINOIS FED. AID PROJECT				

SCALE: NTS SHEET 14 OF 15 SHEETS STA. TO STA.

