

OHIO DEPARTMENT OF TRANSPORTATION CUY-LG-FY2021

DISTRICT LIGHTING MAINTENANCE AND REPAIR

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

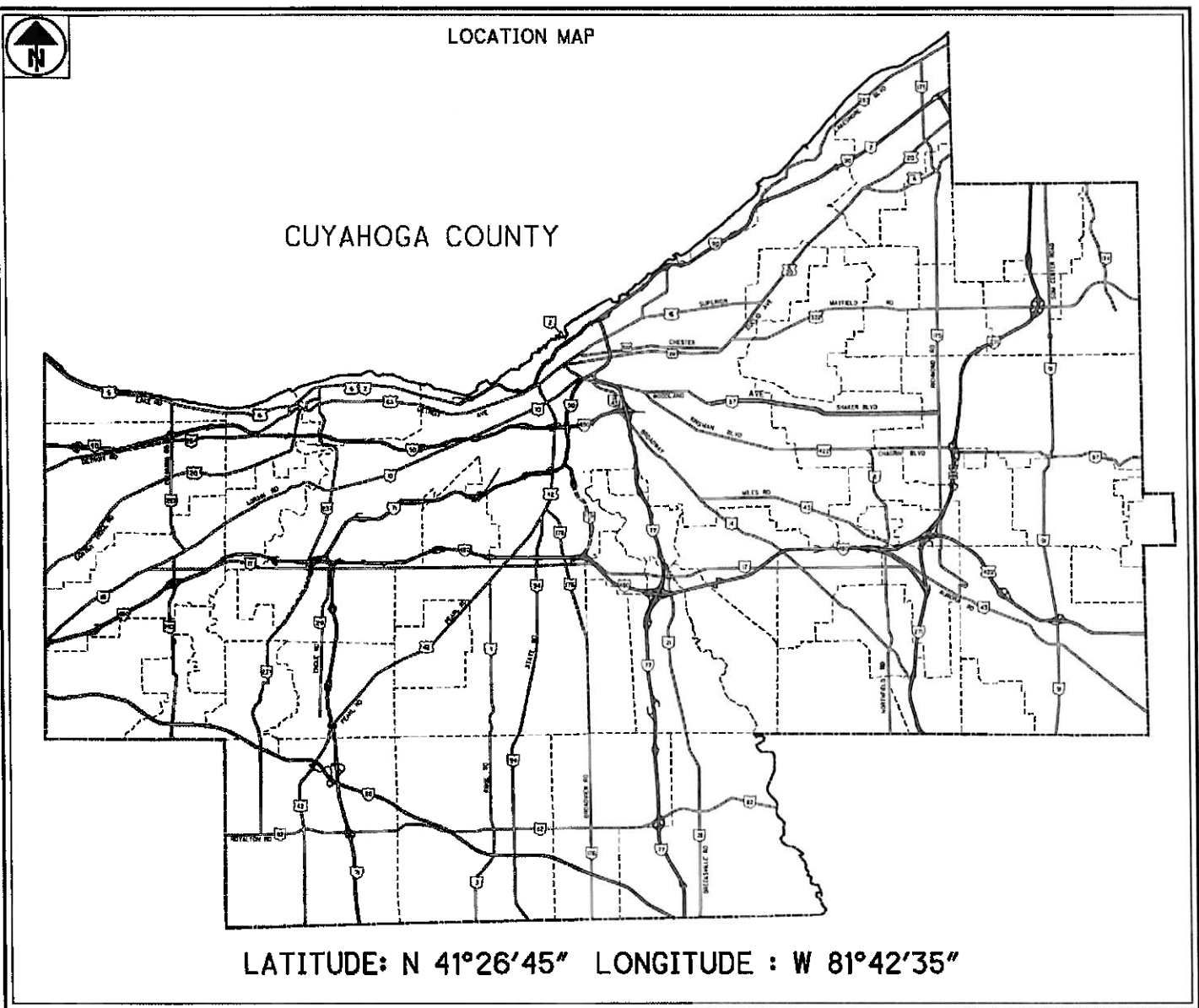
I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

Approved *JLR*
District Deputy Director
Date 1/26/21

Approved _____
Director, Department of
Date _____ Transportation

INDEX OF SHEETS:

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MISC. DETAILS	45



NPDES PERMIT REQUIREMENTS:
 PROJECT EARTH DISTURBED AREA = N/A (MAINTENANCE PROJECT)
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA = N/A (MAINTENANCE PROJECT)
 NOTICE OF INTENT DISTURBED AREA = N/A (MAINTENANCE PROJECT)

UNDERGROUND UTILITIES

PLAN PREPARED BY:
**OHIO DEPARTMENT OF
 TRANSPORTATION
 DISTRICT 12
 PLANNING & ENGINEERING**

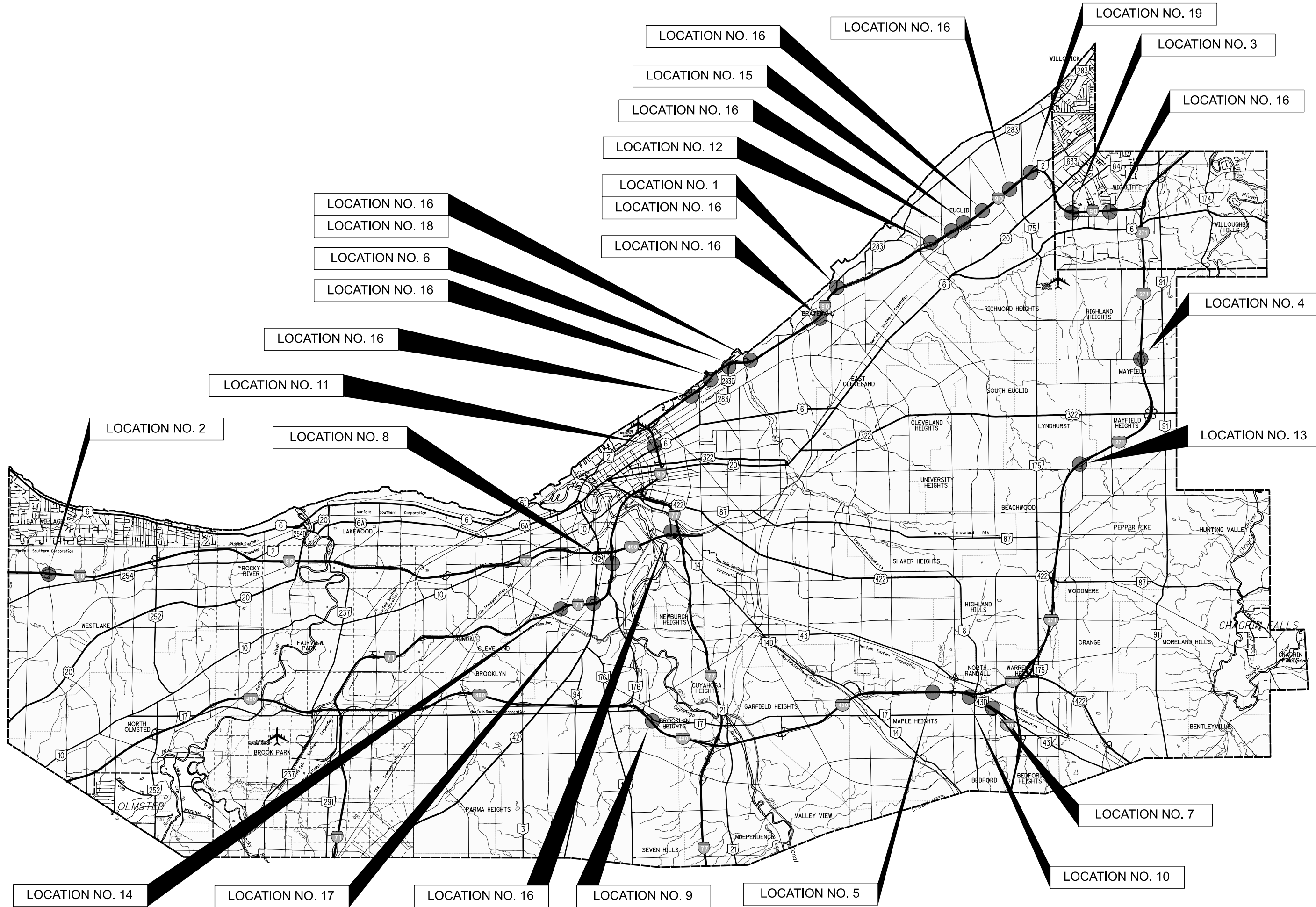
STANDARD DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	
F-3.2	7-18-14	HL-30.22	4-17-20	MT-95.45	1-17-20	800	1-15-21
		HL-40.20	7-17-20	MT-95.50	7-21-17	813	10-19-18
HL-10.11	4-17-20	HL-60.11	7-21-17	MT-98.10	1-17-20	821	4-20-12
HL-10.12	1-20-17	HL-60.12	4-17-20	MT-98.11	1-17-20	832	10-19-18
HL-10.13	4-17-20	HL-60.21	7-20-18	MT-98.20	4-19-19	921	4-20-12
HL-10.31	4-17-20	HL-60.31	1-17-20	MT-98.22	1-17-20		
HL-20.11	7-17-20			MT-98.28	1-17-20		
HL-20.21	1-19-18	MT-95.30	7-19-19	MT-105.10	1-17-20		
HL-30.11	7-17-20	MT-95.31	7-19-19				
HL-30.21	1-17-14	MT-95.32	4-19-19				

ENGINEERS SEAL:

SIGNED: *Eric M. Kallio*
 DATE: 01-26-2021

FEDERAL PROJECT NO. NON FEDERAL
RAILROAD INVOLVEMENT NONE
TITLE SHEET
DESIGN AGENCY
DESIGNER FLK
REVIEWER FLK 10/15/20
PROJECT ID 103299
SHEET TOTAL P.1 45


CUY-LG-FY2021
 MODEL: Sheet1 PAPER SIZE: (7x11 in.) DATE: 1/17/2021 TIME: 10:32:22 AM USER: hromopka
 p:\ohiodot-pw-bentley\com\hlocot-pw-02\Documents\1014\active Projects\District 12\Cuyahoga\103299\400-Engineering\Roadway\Sheet1.dgn



SHEET NUM.											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
4	6	7	8			11	12	13	14		01/NFP/OT	EXT	TOTAL				
			150									614	11110	150	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE SIGNING, MISC.: ADDITIONAL SIGNS, GROUND MOUNTED, AS DIRECTED BY THE ENGINEER	7
		100										630	97800	100	SF		
												LS	614	11000	LS	INCIDENTALS MAINTAINING TRAFFIC MOBILIZATION	
												LS	624	10000	LS		

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER
FLK

REVIEWER
FLK 01/07/21

PROJECT ID
103299

SHEET TOTAL
P.10 45

LOCATION NO.	CIRCUIT	NEW POLE NUMBER	STATION TO STATION	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	
				CONNECTION, FUSED PULL APART EACH	CONNECTION, UNFUSED PULL APART EACH	CONNECTION, UNFUSED PERMANENT EACH	LIGHT POLE, CONVENTIONAL, AT10B34 EACH	LIGHT POLE, CONVENTIONAL, AT20B41 EACH	LIGHT TOWER, BBB110 EACH	LIGHT TOWER, BBBB70 EACH	LIGHT TOWER, BBBB80 EACH	LIGHT TOWER, BBBBBB70 EACH	LIGHT TOWER, BBBBBB100 EACH	LIGHT TOWER, BBBBBB100 EACH	LIGHT TOWER, MISC.: REPLACE LUMINAIRE LOWERING MECHANISM EACH	LIGHT TOWER, MISC.: REPLACE HOISTING CABLES AND WINCH CABLE EACH	LIGHT POLE FOUNDATION, 24" X 6' DEEP EACH	LIGHT POLE FOUNDATION, 24" X 8' DEEP EACH	LIGHT TOWER FOUNDATION, 36" X 15' DEEP EACH	LIGHT TOWER FOUNDATION, 36" X 20' DEEP EACH	LIGHT TOWER FOUNDATION, 36" X 30' DEEP EACH	LIGHT TOWER, BBBB90 EACH	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE FT	NO. 2 AWG 2400 VOLT DISTRIBUTION CABLE FT	NO. 10 AWG POLE AND BRACKET CABLE FT	1-1/2" DUCT CABLE WITH TWO NO. 4 AWG 2400 VOLT CABLES FT	1-1/2" DUCT CABLE WITH TWO NO. 2 AWG 2400 VOLT CABLES FT	1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES FT	LIGHT TOWER FOUNDATION, 36" X 25' DEEP EACH
1	2MCL1		132+16																										
		2MCL-4	132+22 137+25							1																			
2	1CR		41+00																										
		1CR-3	41+00 40+94																										
		3CR	58+05																										
		3CR-1	58+05 58+11																										
			65+00																										
		3CR-2	65+00 65+06																										
3	RID1	RID1-4	91+70																										
	BIS1	BIS1-2	4+75																										
4	NWM	NWM-3	28+04																										
5	1MC	1MC-9	12367+20																										
6	EB		219+20																										
		EB11	218+35																										
7	3AS	3AS7	39+45 42+18	1	1																								
		3AS6	42+18 43+15	1	1																								
			43+15 44+91	1	1	6																							
		3AS5	44+91 47+64	1	1																								
		3AS4	47+64 50+37	1	1																								
		3AS3	50+37 53+10	1	1																								
		3AS2	53+10 55+83	1	1																								
		3AS1	55+83 58+30	1	1																								
	2AS		58+30 58+60			2																							
		2AS1	58+60 61+29	1	1																								
		2AS2	61+29 64+02	1	1																								
		2AS3	64+02 64+53	1	1																								
			64+53 66+75	1	1	6																							
		2AS4	66+75 69+48	1	1																								
		2AS5	69+48	1	1																								
	1AS	1AS5	48+51 50+51	1	1		1																						
		1AS4	50+51 52+96	1	1		1																						
		1AS3	52+96 55+16	1	1	2	1																						
		1AS2	55+16 57+16	1	1		1																						
		1AS1	57+16 58+20	1	1		1																						
			58+20			6																							
		1AS11	47+54 49+03	1	1		1																						
		1AS10	49+03 51+22	1	1	2	1																						
		1AS9	51+22 53+06	1	1		1																						
		1AS8	53+06 54+91	1	1		1																						
		1AS7	54+91 56+74	1	1		1																						
		1AS6	56+74 58+30	1	1		1																						
			58+30			4																							
8	C		0+40 0+50			2																							
		C1	0+50 2+50	1	1																								
		C2	2+50 4+20	1	1																								
		C3	4+20 5+80	1	1																								
		C4	5+80	1	1																								


TOTALS CARRIED TO GENERAL SUMMARY		29	29	44	11	4	1	1	1	1	3	1	1	1	11	4	3	4	1		8009		1490	3288				170
DESIGN AGENCY																												
DESIGNER		FLK																										
REVIEWER		FLK 11/06/20																										
PROJECT ID		103299																										
SHEET TOTAL		P.11 45																										

LIGHTING SUBSUMMARY

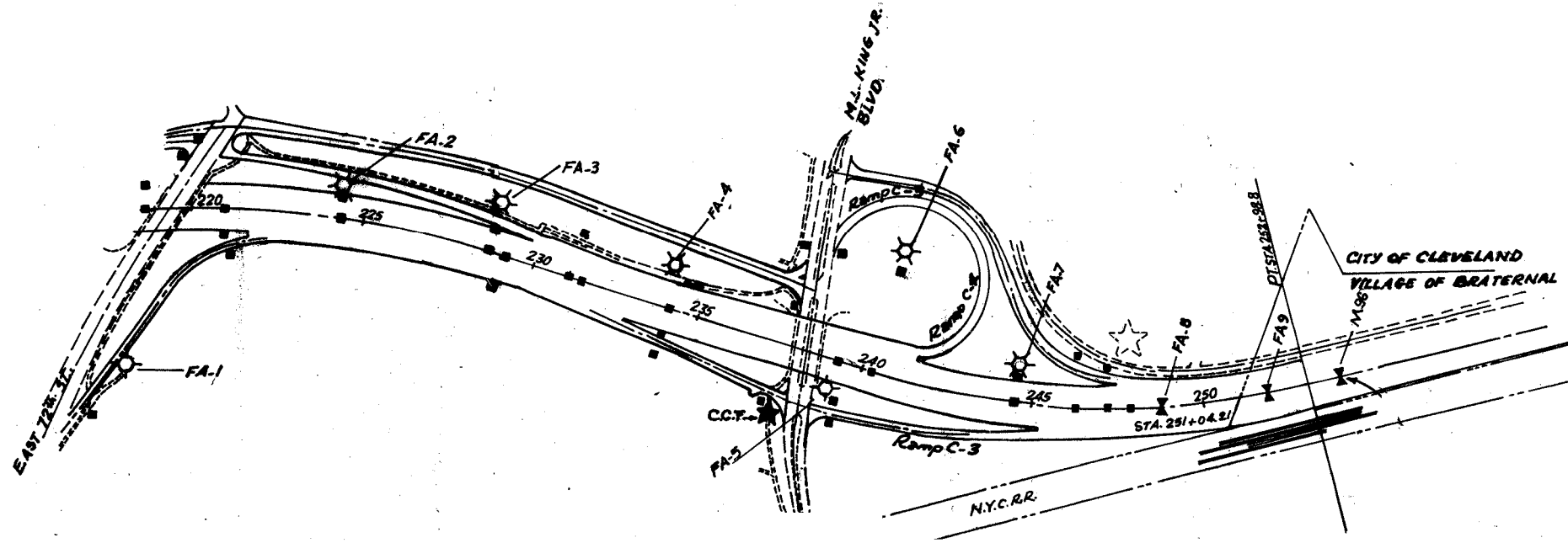


LOCATION NO.	CIRCUIT	NEW POLE NUMBER	STATION TO STATION	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625								
				CONNECTION, FUSED PULL APART	CONNECTION, UNFUSED PULL APART	CONNECTION, UNFUSED PERMANENT	LIGHT POLE, CONVENTIONAL, AT10B34	LIGHT POLE, CONVENTIONAL, AT20B41	LIGHT TOWER, BBB110	LIGHT TOWER, BBBB70	LIGHT TOWER, BBBB80	LIGHT TOWER, BBBBBB70	LIGHT TOWER, BBBBBB100	LIGHT TOWER, BBBBBB100	LIGHT TOWER, MISC.: REPLACE LUMINAIRE LOWERING MECHANISM	LIGHT TOWER, MISC.: REPLACE HOISTING CABLES AND WINCH CABLE	LIGHT POLE FOUNDATION, 24" X 6' DEEP	LIGHT POLE FOUNDATION, 24" X 8' DEEP	LIGHT TOWER FOUNDATION, 36" X 15' DEEP	LIGHT TOWER FOUNDATION, 36" X 20' DEEP	LIGHT TOWER FOUNDATION, 36" X 30' DEEP	LIGHT TOWER, BBBB90	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 2 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 10 AWG POLE AND BRACKET CABLE	1-1/2" DUCT CABLE WITH TWO NO. 4 AWG 2400 VOLT CABLES	1-1/2" DUCT CABLE WITH TWO NO. 2 AWG 2400 VOLT CABLES	1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES	LIGHT TOWER FOUNDATION, 36" X 25' DEEP	CONDUIT, 3", 725.04							
				EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	FT	FT	FT	EACH	FT										
9	AE	AE10	34+44 (SR-17) 79+71 (RAMP E-G)	2			1								1										135			110									
		AE9	79+71 81+72	2			1								1										135			210									
		AE8	81+72 83+76	2		3		1							1										135			215									
		AE7	83+76	2				1							1										135												
10	AN	LANE S-95/S-96																																			
	AR	AAR6				4															500				450			240									
11	STC2		4+20 5+55			2																															
		STC2-11	5+55 6+60	1	1		1								1										90	145											
		STC2-12	6+60	1	1		1								1										90												
12	NEF1		273+50																																		
		NEF1-2					2										1				50								15								
13	WBR	WBR4	603+60											1	1																						
14	2DEN2		957+70																																		
		2DEN2-1																																			
15	VIL2		327+95 327+40			2																															
			327+40 325+65			2																									65						
16	M		2+20 IR-90 WB																																		
		MCL	MCELHATTEN AVE.			8																1680									200						
		VIV	N. LAKELAND BLVD. WB																																		
		ARM	N. LAKELAND BLVD. WB																																		
		VIL	N. LAKELAND BLVD. WB																																		
		RK	11+00 ROCKEFELLER RD.				6																330	330													
		BRO	SR-14 (BROADWAY AVE.)/E. 37TH ST.																																		
		D	S. MARGINAL RD. EB																																		
		E	DICK GODDARD WAY				4																									50					
		D	99+95 IR-90 EB																																		
17	SCR		IR-71 SB/W.25TH			8																								200							
18	FA		IR-90 EB/MLK JR DR.			2							1																	110							
19	BEN2		IR-90/SR-2																											1							
TOTALS CARRIED TO GENERAL SUMMARY				10	2	43	6							2							1	1	1	6			2	1	1	2060	1950	720	400	700	535	1	705

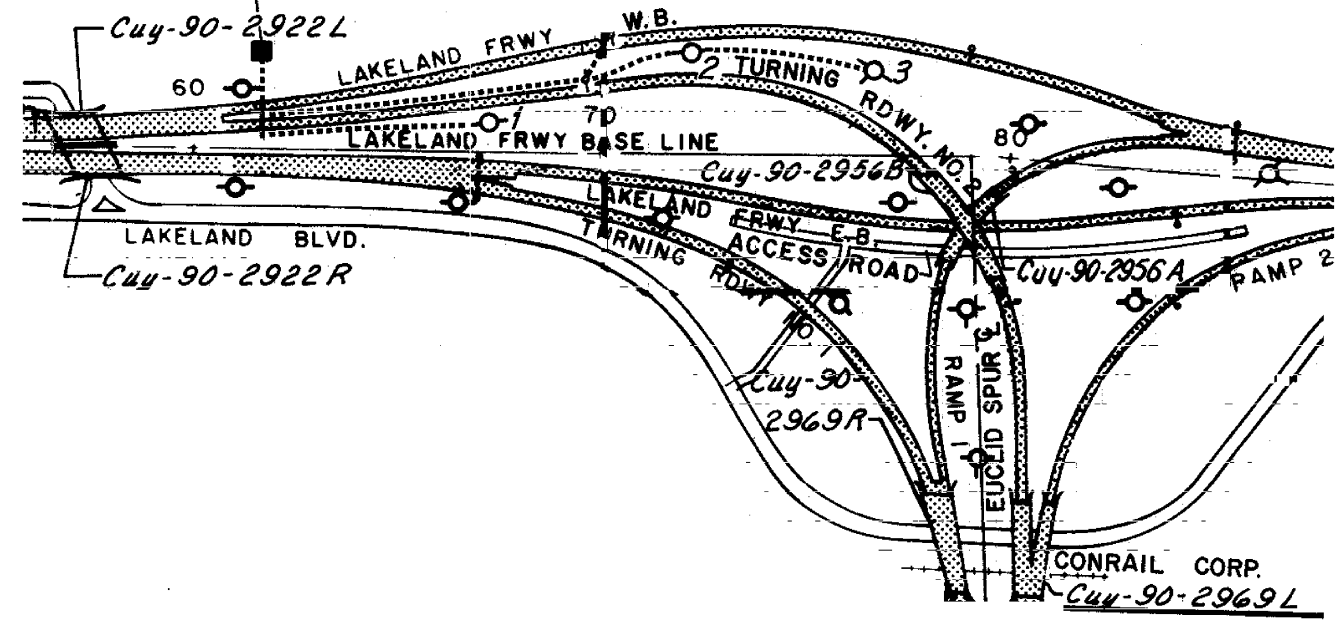
LIGHTING SUBSUMMARY

DESIGN AGENCY

 DESIGNER
 FLK
 REVIEWER
 FLK 11/06/20
 PROJECT ID
 103299
 SHEET TOTAL
 P.13 45

CIRCUIT FA
 480VOLT-2 WIRE



Control Center BEN

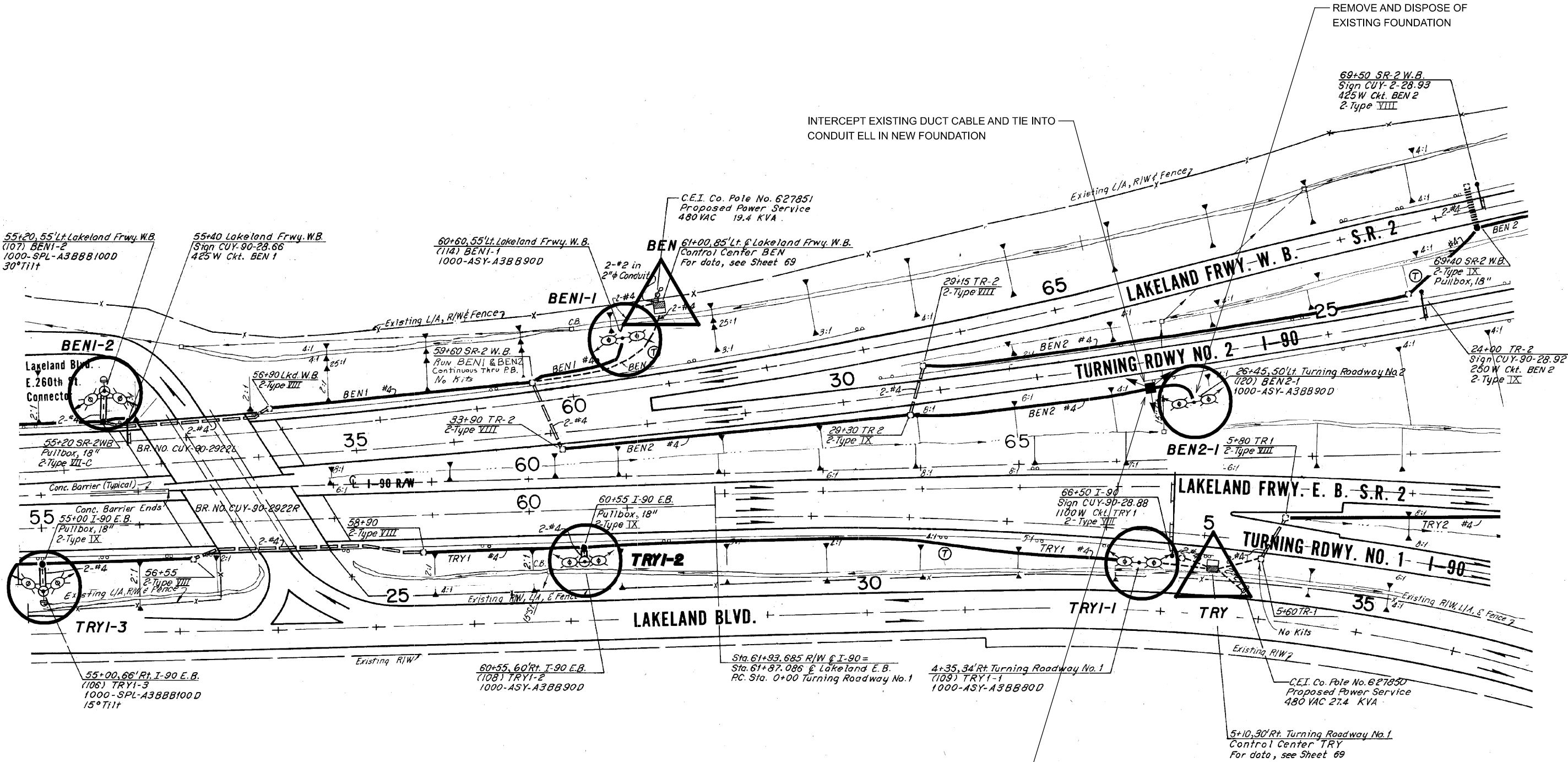


CIRCUIT BEN2
 480VOLT-2 WIRE

DESIGN AGENCY	
DESIGNER	FLK
REVIEWER	FLK 10/15/20
PROJECT ID	103299
SUBSET	TOTAL
0	0
SHEET	TOTAL
P.21	45



LOCATION NO. 19
IR-90 AT SR-2 INTERCHANGE



INTERCEPT EXISTING DUCT CABLE AND TIE INTO CONDUIT ELL IN NEW FOUNDATION

REMOVE AND DISPOSE OF EXISTING FOUNDATION

LOCATE NEW TOWER (BEN2-1) AND FOUNDATION 10'+/- WEST FROM EXISTING TOWER

CONTRACTOR TO INSTALL FOUNDATION AND TOWER READY TO RECEIVE LUMINAIRES.
ODOT FORCES TO INSTALL HPS LUMINAIRES.

- PROPOSED WORK:
1. REMOVE AND DISPOSE OF EXISTING LIGHT TOWER FOUNDATION.
 2. INSTALL NEW LIGHT TOWER ON NEW FOUNDATION.

CUY-LG-FY2021

MODEL: Sheet PAPER: I:\xii (in.) DATE: 4/30/2021 TIME: 8:47:11 AM USER: fkonopka
 p:\ohiodot-pw\bentley.com\ohiodot-pw-02\Documents\01Active Projects\Lighting\Lighting\Lighting_Sheets\103299_LP024.dgn

DESIGN AGENCY	
DESIGNER	FLK
REVIEWER	FLK 10/27/20
PROJECT ID	103299
SHEET	P.44A
TOTAL	45