Exhibit 6

MANATEE COUNTY PUBLIC WORKS DEPARTMENT

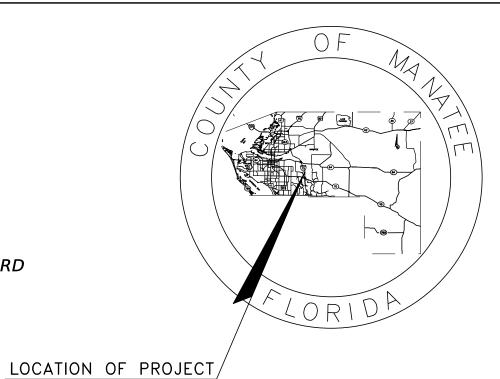
CONTRACT PLANS

INDEX OF LIGHTING PLANS

SHEET NO. SHEET DESCRIPTION L-1 KEY SHEET L-2 L-3 SIGNATURE SHEET TABULATION OF QUANTITIES THRU L-5 L-6 L-7 GENERAL NOTES THRU L-8 POLE DATA AND LEGEND L-9 THRU L-25 LIGHTING PLAN SERVICE CENTER DETAILS L-26 LOAD CENTER ENCLOSURE DETAILS L-27 DISTRIBUTION PANEL WIRING DIAGRAM L-28

MANATEE COUNTY
PROJECT NUMBER 6045662
44TH AVENUE EAST
PHASE 2
WEST OF I-75 TO LAKEWOOD RANCH BOULEVARD

LIGHTING PLANS



90% SUBMITTAL 02/2022

LIGHTING PLANS ENGINEER OF RECORD:

MICHAEL J. OATES, P.E.
P.E. NO.: 49282
HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232
VENDOR NO. 47-0680568
CONTRACT NO. C9480

MANATEE CO. PROJECT MANAGER: ERIC S. SHROYER, P.E.

FISCAL	SHEET
YEAR	NO.
22	L-1

E OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UN



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

HDR ENGINEERING, INC. 2601 CATTLEMEN ROAD, SUITE 400 SARASOTA, FLORIDA 34232 MICHAEL J. OATES, P.E. NO. 49282

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET	NO.		SHEET DESCRIPTION
L-1 L-2			KEY SHEET SIGNATURE SHEET
L-3	THRU	L-5	TABULATION OF QUANTITIES
L-6			GENERAL NOTES
L-7	THRU	L-8	POLE DATA AND LEGEND
L-9	THRU	L-25	LIGHTING PLAN
L-26			SERVICE CENTER DETAILS
L-27			LOAD CENTER ENCLOSURE DETAILS
L-28			DISTRIBUTION PANEL WIRING DIAGRAM

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No.	REVISIONS	DATE	BY	IR	
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HDR ENGINEERING, INC. 2601 CATTLEMEN ROAD, SUITE 400 SARASOTA, FLORIDA 34232

DATE 02/2022 PROJECT NO.

6045662

Manatee MANATEE COUNTY
County PUBLIC WORKS

DESIGN ENGINEER MICHAEL J. OATES FL. LICENSE NO.

49282

SIGNATURE SHEET

SHEET NO.

L-2

5:06:08 PM 2/23/2022

TABULATION OF QUANTITIES

PAY							SI	HEET NUMBER	R <i>S</i>					TOTAL THIS	GRAND TOTAL	
ITEM	DESCRIPTION	UNIT	L-9 L-10 L-11		L - 12	L -	13	L - 14		15	SHEET	TO	Γ AL			
NO.														PLAN FINAL	PLAN	FINAL
630-2-11	CONDUIT, F & I, OPEN TRENCH	LF	225					300	1840		1540	1520		5425		
630-2-12	CONDUIT, F & I, DIRECTIONAL BORE	LF														
630-2-16	CONDUIT, F & I, EMBEDDED CONCRETE BARRIERS AND TRAFFIC RAILINGS	LF	450		4380	4410		3630						12870		
	PULL & SPLICE BOX, F & I, 13" x 24" COVER SIZE	EA	2					2	16		7	6		34		
			3					2	10		/					
635-3-13	JUNCTION BOX, F & I, EMBEDDED	EA	2		6	7		7						22		
715-1-12	LIGHTING CONDUCTORS, F & I, INSULATED, NO.8 - 6	LF	867		144	168		1140	6624		5124	4992	,	19059		
715-1-13	LIGHTING CONDUCTORS, F & I, INSULATED, NO 4 TO NO 2	LF							500					500		
715-4-12	LIGHT POLE COMPLETE, F & I STANDARD POLE STANDARD FDN, 35' MOUNTING HEIGHT (SINGLE OR DUAL ARM)	EA														
715-4-13	LIGHT POLE COMPLETE, F & I STANDARD POLE STANDARD FDN, 40' MOUNTING HEIGHT	EA	2		6	7		6	14		7	6	;	48		
	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA							1					7		
									1					1		
715-11-111	LUMINAIRE, FURNISH & INSTALL, ROADWAY, COBRAHEAD	EA	5											5		
715-500-1	POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL	EA	2		6	7		6	14		7	6		48		
	SCALE AS NOTED HDR ENGINEERING, INC.	DAT	E	. Ns./		<u>. </u>		1	DESIGN	ENGINEE	R		1	l l		SHEET
	DESIGNED BY MO 2601 CATTLEMEN ROAD, SUITE 400	02/20)22	外	Manatee M.	AN A7	ΓEE	COUNTY	MICHAE	L J. OATE	5	TA	BUL	A TION		NO.
	DRAWN BY VD SARASOTA, FLORIDA 34232	PROJEC	T NO.	THE STATE OF	County	PUBL	.IC V	VORKS	FL. LIC	ENSE NO.				ITIES (1)		1. 7
	REVISIONS DATE BY LR	60456	662						49	9282		WU.	₹ 11. 14. 1			L-3

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TABULATION OF QUANTITIES

PAY			SHEET NUMBERS								TOTAL THIS		AND			
ITEM NO.	DESCRIPTION	UNIT	L-16 L-17 L-1			18	8 L-19		20	L-21	L -	22	SHEET	TOT	AL	
NO.												PLAN	FINAL	PLAN FINAL	PLAN	FINAL
530-2-11	CONDUIT, F & I, OPEN TRENCH	LF	1520		275			1300	1520		1000			5615		
530 - 2 - 12	CONDUIT, F & I, DIRECTIONAL BORE	LF									110	\vdash		110	\vdash	
630-2-16	CONDUIT, F & I, EMBEDDED CONCRETE BARRIERS AND TRAFFIC RAILINGS	LF			1310	1570		400				\vdash		3280		
635-2-11	PULL & SPLICE BOX, F & I, 13" x 24" COVER SIZE	EA	6		3			7	6		10			32		
635-3-13	JUNCTION BOX, F & I, EMBEDDED	EA			7	6		3				$\vdash \vdash \vdash$		16	 	
715-1-12	LIGHTING CONDUCTORS, F & I, INSULATED, NO.8 - 6	LF	4992		1113	144		4380	4992		4002			19623		
		Li	4992		1113	144			4992		4002			19023		
715-1-13	LIGHTING CONDUCTORS, F & I, INSULATED, NO 4 TO NO 2	LF						500				 '		500	\vdash	
715-4-12	LIGHT POLE COMPLETE, F & I STANDARD POLE STANDARD FDN, 35' MOUNTING HEIGHT (SINGLE OR DUAL ARM)	EA														
715 / 12	LIGHT POLE COMPLETE, F & I STANDARD POLE STANDARD FDN, 40' MOUNTING HEIGHT	EA	6		6	6		6	6		8			38		<u> </u>
713-4-13	ETGIT FOLL COMPLETE, T & T STANDARD FOLL STANDARD FUN, 40 MOUNTING HEIGHT	LA	0		0	0		0	U		8			38		
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA						1						1		
715-11-111	LUMINAIRE, FURNISH & INSTALL, ROADWAY, COBRAHEAD	EA									1	8		9		
715 500 1	POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL	EA	6		6	6		6	6		8			38		
713-300-1	POLE CABLE DISTRIBUTION STSTEM, CONVENTIONAL	EA	0	'	0	0		6	U		0			30		
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	AS NOTED HDR ENGINEERING, INC.	DAT	E	1	_					ENGINEE						SHEET
	DESIGNED BY MO 2601 CATTLEMEN ROAD, SUITE 400	02/20)22	TE	Manatee 1	1ANA7	ΓEE	COUNTY	MICHAEI	L J. OATE	5	TA	BULA	A TION		NO.
	DRAWN BY VD SARASOTA, FLORIDA 34232	PROJEC	T NO.	THE STATE OF	County	PUBL	.IC V	<i>NORKS</i>	FL. LIC.	ENSE NO.						
No.	REVISIONS DATE BY LR	60456	562	9					49	9282	OF QUANTITIES (2)				L-4	
	ACTIONS OF EACH	5:06:27	7 PM	2	//23/2022					W:\						

TABULATION OF QUANTITIES

PAY ITEM	DESCRIPTION	UNIT		22				HEET NUMBER	R <i>S</i>					TOTAL THIS SHEET	GRA TOT	 AND ΓAL
NO.			L -		L-24	L -		ΡΙΔΝ ΕΙΝΔΙ	ΡΙΔΝ	FΙΝΔΙ	PI AN FINAI	ΡΙΔΝ	FΙΝΔΙ	PLAN FINAL	PLAN	FINAL
630-2-11	CONDUIT, F & I, OPEN TRENCH	LF	190		820	430		TEAN TINAL	7 270	TIVAL	TEAN TINAL	7 LAN	TINAL	1440	12480	
630-2-12	CONDUIT, F & I, DIRECTIONAL BORE	LF													110	
	CONDUIT, F & I, EMBEDDED CONCRETE BARRIERS AND TRAFFIC RAILINGS	LF													16150	
635 - 2 - 11	PULL & SPLICE BOX, F & I, 13" x 24" COVER SIZE	EA	1		5	3								9	75	
635-3-13	JUNCTION BOX, F & I, EMBEDDED	EA													38	
715-1-12	LIGHTING CONDUCTORS, F & I, INSULATED, NO.8 - 6	LF	618		2700	1434								4752	43434	
715-1-13	LIGHTING CONDUCTORS, F & I, INSULATED, NO 4 TO NO 2	LF													1000	
715-4-12	LIGHT POLE COMPLETE, F & I STANDARD POLE STANDARD FDN, 35' MOUNTING HEIGHT (SINGLE OR DUAL ARM)	EA	1	1	4	3								8	8	
715-4-13	LIGHT POLE COMPLETE, F & I STANDARD POLE STANDARD FDN, 40' MOUNTING HEIGHT	EA													86	
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA													2	
715-11-111	LUMINAIRE, FURNISH & INSTALL, ROADWAY, COBRAHEAD	EA	5											5	19	
715-500-1	POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL	EA			4	3								7	93	
															<u> </u>	
		1														
1	l legue															
	SCALE AS NOTED HDR ENGINEERING, INC. PESIGNED BY MO 2601 CATTLEMEN ROAD, SUITE 400	DAT 02/20	E 022	外条	Manataa 1	ΜΑΝΑΊ	ΓEF	COUNTY	DESIGN E			TAI	B [[][4	A TION		SHEET NO.
	DRAWN BY VD SARASOTA, FLORIDA 34232 CHECKED BY	PROJEC		沙	County	PUBL	IC V	NORKS	FL. LICE		OF			TITIES (3)		L-5
No.	REVISIONS DATE BY LR	5:06:27			2/23/2022					282 V:\						

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ONE WEEK PRIOR TO THE BEGINNING OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY.

MANATEE COUNTY PROJECT MANAGEMENT DIVISION ERIC S. SHROYER, P.E. 1022 26TH AVENUE EAST BRADENTON, FLORIDA 34208 PHONE: 941-708-7450 EXT. 7344

MANATEE COUNTY TRAFFIC ENGINEERING DIVISION VISHAL KAKKAD 2101 47TH TERRACE EAST BRADENTON, FLORIDA 34203 PHONE: 941-749-3500 EXT. 7812

- FOR A LIST OF UTILITY OWNERS, SEE "UTILITY CONTACTS" LISTED BELOW.
- THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE
 ONLY. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE
 CONTRACTOR, VIA SUNSHINE STATE ONE CALL OF FLORIDA, INC AT
 811 OR 1-800-432-4770, IN COORDINATION WITH UNDERGROUND AND OVERHEAD
 UTILITY OWNERS. A MINIMUM OF 2 FULL BUSINESS DAYS PRIOR TO
- AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE WITHIN 2' TO THE LIGHTING POLE FOUNDATIONS AS DETERMINED BY THE ENGINEER, HAND DIG THE FIRST 4 FEET OF THE HOLE FOR THE POLE FOUNDATION AND/OR CONDUIT RUN(S).
- PRIOR TO ORDERING MATERIALS, SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW FOR ALL EQUIPMENT AND MATERIALS FURNISHED AND INSTALLED.
- THE ACCEPTANCE OF ANY SUBMITTED DATA FOR MATERIALS, AND EQUIPMENT SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PLACING SAME AND PROPER DIMENSIONS, CAPACITIES, SIZES, QUANTITY AND INSTALLATIONS DETAILS TO EFFICIENTLY PERFORM THE REQUIREMENTS AND INTENT OF THE CONTRACT, SUCH ACCEPTANCE SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS OF ANY SORT ON THE SUBMITTAL DATA
- VERIFY POLE LENGTHS REQUIRED IN ORDER TO ACHIEVE THE PROPER MOUNTING HEIGHT FOR EACH LUMINAIRE. THIS VERIFICATION SHALL OCCUR PRIOR TO THE SUBMISSION OF SHOP DRAWINGS. MOUNTING HEIGHTS ARE DETERMINED FROM THE BOTTOM OF THE LUMINAIRE HOUSING VERTICALLY TO PAVEMENT GRADE.
- THE CONTRACTOR SHALL RETURN ALL DISTURBED AREAS TO PRE-CONSTRUCTION CONDITIONS WITHIN 72 HOURS OF THE CONSTRUCTION ACTIVITY, INCLUDING BUT NOT LIMITED TO: RESTORATION OF GRADE; REMOVAL OF CONSTRUCTION TRASH; REPLACEMENT OF SIDEWALK; RESTORATION OF LANDSCAPE IRRIGATION, ETC. THE CONTRACTOR SHALL VERIEY THE LOCATION AND FUNCTION OF EXISTING IRRIGATION AND FUNCTION OF EXISTING IRRIGATION LINES PRIOR TO INITIALIZING CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL ALL PROJECT INFRASTRUCTURE AND FIELD ELEMENTS WITHIN THE RIGHT-OF-WAY
- ALL AREAS OF EXPOSED EARTH RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE SODDED AS DIRECTED BY THE COUNTY. SEEDING AND MULCHING SHALL BE APPLIED ONLY WHERE DIRECTED BY THE COUNTY.
- ALL SPLICES SHALL BE MADE IN PULL BOXES ONLY WHEN NECESSARY WITH WATER PROOF SOLDERLESS CONNECTORS OR COMPRESSION SLEEVES AS PER CURRENT FDOT STANDARD SPECIFICATIONS. SPLICES AND CONNECTIONS MADE IN PULL BOXES SHALL BE LIMITED TO THE SERVICE POINT AND CONDUIT JUNCTION WITH MULTI-DIRECTIONAL CIRCUIT RUNS AS INDICATED ON PLANS. ALL SPLICE LOCATIONS SHALL BE NOTED ON THE AS-BUILT PLANS.
- THE LOCATIONS OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, ARE APPROXIMATE AND BASED ON THE INFORMATION FURNISHED TO THE ENGINEER BY THE UTILITY OWNER(S) AND ARE SHOWN AS NOTICE TO THE CONTRACTOR THAT UNDERGROUND UTILITIES EXIST. BEFORE EXCAVATING STAKE ALL POLE LOCATIONS AND TAKE RESPONSIBILITY FOR NOTIFYING THE COMPANY OWNER(S) AND REQUEST THEM TO LOCATE AND STAKE THEIR UNDERGROUND

UTILITY CONTACTS:

MANATEE COUNTY PUBLIC WORKS DEPARTMENT INFRASTRUCTURE ENGINEERING CHRIS MOWBRAY, P.E 1022 26TH AVENUE EAST BRADENTON, FL 34208 (941) 708-7450 FAX: (941) 708-7431

TECO/PEOPLE GAS CO. DAN SHANAHAN 8261 VICO COURT SARASOTA, FL 34240 (813) 645-2700 FAX: (941) 342-4011 EMERGENC 1-877-832-6911 d jshanahan@tecoenergy.com

FRONTIER COMMUNICATIONS DENISE HUTTON 1701 RINGLING BLVD SARASOTA, FL 34236 (941) 906-6722 denise.hutton@ftr.com

FLORIDA POWER & LIGHT GREG COKER 1253 12TH AVENUE EAST PALMETTO, FL 34221 (941) 723-4430 (941) 723-4430 EMERGENCY: 1-800-4-OUTAGE Greg_Coker@fpl.com

MANATEE COUNTY HEALTH DEPARTMENT HARRY MESSICK 410 6TH AVENUE EAST BRADENTON, FL 34208 (941) 748-0747 EXT. 1355 FAX: (941) 750-9364

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT SARASOTA SERVICE OFFICE STEVE LOPES, P.E 6750 FRUITVILLE ROAD SARASOTA, FL 34240 (941) 377-3722 FAX: (941) 373-7660

FLORIDA GAS TRANSMISSION SAFETY HARBOR TEAM 7804 ANDERSON ROAD TAMPA, FL 33634 JOSEPH SANCHEZ (813) 466-3327 CELL: (727) 639-7512 joseph.e.sanchez@sug.com

CHARTER COMMUNICATIONS JAMES CRUZAN 5413 E. STATE ROAD 64 BRADENTON, FL 34208-5535 (727) 329-2846 James.Cruzan@charter.com

DEPT OF ENVIRONMENTAL DEPT OF ENVIRONMENTAL
PROTECTION
STEPHANIE BARIOS
13051 N. TELECOM PKWY
TEMPLE TERRACE, FL 33637
(813) 632-7600, EXT. 408

PEACE RIVER ELECTRIC COOPERATIVE, INC. P.O. BOX 1310 WACHULA, FL 33873 DAVID McCLINTOCK David.McClintock@preco.coop

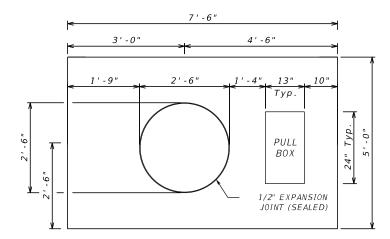
MANATEE COUNTY PUBLIC WORKS DEPARTMENT TRAFFIC ENGINEERING VISHAL KAKKAD PF (941) 749-3500 EXT. 7812 FAX: (941) 749-3517

SUNSHINE STATE ONE CALL OF FLORIDA 1 (800) 432-4770

- 4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE ALL ABOVE GROUND AND UNDERGROUND CONFLICTS IN ADVANCE OF THE PLACEMENT OF ANY POLES OR OTHER FACILITIES. THE CONTRACTOR SHALL FIELD MARK THE PROPOSED ALIGNMENT FOR REVIEW AND CONCURRENCE BY THE ENGINEER PRIOR TO TRENCHING AND/OR
- ALL NEW CONDUIT SHALL BE PLACED AT A MINIMUM DEPTH OF 30" UNLESS PLACED IN AN AREA OF NEW FILL, IN WHICH CASE THE CONDUIT SHALL BE 48". DIRECTIONALLY BORED CONDUIT SHALL BE AT A MINIMUM DEPTH OF 48".
- DURING TRENCHING OPERATIONS, THE CONTRACTOR SHALL AVOID LANDSCAPING WHICH MIGHT BE AFFECTED BY SUCH OPERATIONS.

PAY ITEM NOTES

- 630-2-11 & 630-2-12: CONDUITS INSTALLED WITH THE DIRECTIONAL BORE METHOD SHALL BE HDPE WITH A MINIMUM SIZE OF 2" UNLESS OTHERWISE NOTED IN THE PLANS. COST OF PULL WIRE SHALL BE INCLUDED UNDER THIS PAY ITEM.
- 715-7-11:
 INCLUDES NEMA 3R INDIVIDUALLY MOUNTED ENCLOSED CIRCUIT BREAKER
 ON LOAD SIDE OF METER, METER BASE, SERVICE POLE INSULATORS,
 WEATHERHEADS, CONTROL POWER TRANSFORMERS, ENCLOSURES, PANEL
 BOARDS, BREAKERS, FUSES, LIGHTING CONTACTOR, LIGHTNING ARRESTER,
 PHOTO-ELECTRIC ASSEMBLY, CONDUIT & FEEDER CONDUCTORS FROM
 POWER COMPANY POINT OF SERVICE TO LOAD CENTER, PULL BOX AND ALL
 MISCELLANEOUS HARDWARE FOR A COMPLETE INSTALLATION AS PER PLANS
 AND STANDARD PLANS INDEX 639-001 DETAIL "B". INCLUDES THE COST OF
 FURNISHING AND INSTALLING 12' TYPE P-II PRESTRESSED CONCRETE
 POIF
- 715-11-111: PROVIDE FIVE (5) SPARE LUMINAIRES TO MANATEE COUNTY (SEE SHEET L-9).
- INCLUDES THE COST OF BREAK-AWAY WATERTIGHT, IN-LINE FUSE HOLDERS, THE STRAIN RELIEF AND THE SURGE ARRESTOR PER STANDARD PLANS INDEX 715-001.



SLAB DETAILS - POLES NO. 35, 39, 41, 43, 45, 47, 49, 51, 53, 55)

SARASOTA, FLORIDA 34232 REVISIONS DATE

AS NOTED HOR ENGINEERING, INC.

2601 CATTLEMEN ROAD, SUITE 400

PROJECT NO 6045662



IF THE LUMINAIRE USED IS DIFFERENT THAN DESIGNED, THE CONTRACTOR SHALL PROVIDE SUBMITTAL DATA WHICH INCLUDES A COMPUTER PRINTOUT SHOWING HORIZONTAL FOOTCANDLE LEVELS TO BE OBTAINED, USING THE SUBMITTED LUMINAIRES THAT ARE NOT THE BASIS OF DESIGN, ON THIS PROJECT. AT FINAL INSPECTION, VERIFY THE HORIZONTAL FOOTCANDLE LEVELS ON THE ROADWAY WITH AN APPROVED CURRENTLY CALIBRATED

IDENTIFY ALL CIRCUITS AND EQUIPMENT WITH "LAMACOID TAGS". INSTALL SIMILAR TAGS OF STAINLESS STEEL IDENTIFYING CIRCUIT FOR EACH LUMINAIRE

PULLING INSTRUCTIONS: CONNECT PULLING DEVICES TO COPPER WIRE AND NOT TO JACKET AND MEET MANUFACTURER'S REQUIREMENTS. USE PULLING COMPOUND PER MANUFACTURER'S REQUIREMENTS. ALL BENDS SHALL NOT BE LESS THAN RECOMMENDED BY N.E.C. OR N.E.S.C. FOR CABLE USED.

ALL EXCESS DIRT AND DEBRIS EXCAVATED FROM POLE FOUNDATIONS SHALL BE REMOVED DAILY TO AREAS APPROVED BY THE ENGINEER AND SHALL BE INCLUDED IN PAY ITEM NO. 715-4-13.

PREPARE ACCURATELY DIMENSIONED "AS-BUILT" PLANS OF THE FINAL POLE AND LOAD CENTER LOCATIONS. PLANS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER. COST OF SUCH PREPARATION SHALL BE INCIDENTAL TO PAY ITEMS PROVIDED. UPON FINAL ACCEPTANCE OF THE PROJECT, FORWARD A COMPLETE SET OF AS-BUILT PLANS WITH

PULL BOXES SHALL NOT BE INSTALLED WITHIN ANY DITCHES OR AREAS THAT MAY CAUSE WATER INTRUSION.

ALL HDPE CONDUIT CONNECTIONS SHALL BE JOINED WITH A FUSION

THE CONDUITS TO BE INSTALLED ARE TO BE PLACED SO AS TO TOTALLY AVOID ANY CONFLICTS WITH EXISTING UTILITIES ALONG THE ROUTE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY INFORMATION REQUIRED TO PLAN THE WORK AHEAD FOR THE INSTALLATION OF THE REQUIRED CONDUITS WITHIN DESIGN OR SPECIFIED PARAMETERS, AND HIS TIME FRAME. THE CONTRACTOR SHALL ADJUST CONDUIT VERTICALLY OR HORIZONTALLY TO AVOID CONFLICT WITH UNDERGROUND UTILITIES. THE CONTRACTOR SHALL USE HAND EXCAVATION METHODS WHEN EXCAVATING NEAR EXISTING UTILITIES NO SEPARATE PAYMENT SHALL BE MADDE FOR THIS WORK

MAND EXCAVATION METHODS WHEN EXCAVATING NEAR EXISTING UTILITIES, NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK. EXTREME CAUTION SHALL BE USED BY THE CONTRACTOR WHEN EXCAVATING, INSTALLING, BACK FILLING AND COMPACTING AROUND EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY.

ADJUST THE CONDUIT RUNS TO AVOID ANY UTILITY CONFLICT

IDENTIFIED BY THE LOCATES. ANY SIGNIFICANT CHANGE SHALL

LIGHT METER.

CONDUIT NOTES

COUPLER OR FUSION SPLICE.

BE APPROVED BY THE ENGINEER

AT ACCESS HANDHOLE FOR EACH POLE.

ALL CHANGES MARKED IN RED TO THE ENGINEER.

Manatee MANATEE COUNTY
County PUBLIC WORKS **PUBLIC WORKS**

DESIGN ENGINEER MICHAEL J. OATES

FL. LICENSE NO. 49282

GENERAL NOTES

SHEET NO.

L-6

5:06:39 PM

02/2022

DESIGN WIND SPEED

140 MPH AVERAGE INITIAL ILLUMINATION AVERAGE TO MIN. MAX TO MIN. VEILING LUMINANCE RATIO 1.0 H.F.C 4:1 OR LESS 10:1 OR LESS 0.3:1 OR LESS

POLE DATA

LECEND

		LEGEND	VEILING LUMINANCE RATIO	0.3: 1 OR LESS
SYMBOLS		DESCRIPTION		
	136 WATT LED LUMINAIRE ATTACHED ON GENERAL ELECTRIC LIGHTING LUMINAIRE, POLE MOUNTING HEIGHT IS 40 FT AND A STANDARD FOUNDATION, BREAKAWAY TRA THE LUMINAIRE IS A CUTOFF FIXTURE D	, PHOTOMETRIC CURV RM LENGTH IS 8 FT. ANSFORMER BASE, CC	/E NUMBER ERLH_15C340 AT 15000 SYMBOL INCLUDES LUMINAIRE, AR DNCRETE SLAB AND POLE CABLE DI	O LUMENS. M, POLE WITH STRIBUTION SYSTEM.
•	136 WATT LED LUMINAIRE ATTACHED ON GENERAL ELECTRIC LIGHTING LUMINAIRE, POLE MOUNTING HEIGHT IS 40 FT AND A STANDARD FOUNDATION, BREAKAWAY TRA THE LUMINAIRE IS A CUTOFF FIXTURE D	, PHOTOMETRIC CURV RM LENGTH IS 8 FT. ANSFORMER BASE, CO	/E NUMBER ERLH_15C340 AT 15000 SYMBOL INCLUDES LUMINAIRE, AR DNCRETE SLAB AND POLE CABLE DI	O LUMENS. M, POLE WITH ISTRIBUTION SYSTEM.
•	136 WATT LED LUMINAIRE ATTACHED ON GENERAL ELECTRIC LIGHTING LUMINAIRE, POLE MOUNTING HEIGHT IS 35 FT AND A THE LUMINAIRE IS A CUTOFF FIXTURE D	, PHOTOMETRIC CURV RM LENGTH IS 15, C	/E NUMBER ERLH_15C340 AT 1500 ONCRETE SLAB AND POLE CABLE D	O LUMENS. ISTRIBUTION SYSTEM.
\sim	136 WATT LED LUMINAIRE HEAD REPLAC. LIGHT POLE AND 15' ARM TO REMAIN. AN. CURVE NUMBER ERLH_15C340 AT 15000 CUTOFF FIXTURE DESIGNED FOR MEDIUM	ALYZED USING GENE. LUMENS. SYMBOL INC	RAL ELECTRIC LIGHTING LUMINAIRI CLUDES LUMINAIRE ONLY. THE LUMI	E, PHOTOMETRIC
••	136 WATT LED LUMINAIRE ATTACHED ON GENERAL ELECTRIC LIGHTING LUMINAIRE, POLE MOUNTING HEIGHT IS 40 FT AND A STANDARD FOUNDATION, BREAKAWAY TRA THE LUMINAIRE IS A CUTOFF FIXTURE D	, PHOTOMETRIC CURV RM LENGTH IS 8 FT. ANSFORMER BASE, AN	/E NUMBER ERLH_15C340 AT 15000 SYMBOL INCLUDES LUMINAIRE, AR ID POLE CABLE DISTRIBUTION SYS	O LUMENS. M, POLE WITH TEM.
•	136 WATT LED LUMINAIRE ATTACHED ON GENERAL ELECTRIC LIGHTING LUMINAIRE POLE MOUNTING HEIGHT IS 40 FT AND A TO PILASTER AND POLE CABLE DISTRIBU MEDIUM TYPE III DISTRIBUTION WITH Z	, PHOTOMETRIC CURV RM LENGTH IS 8 FT. ITION SYSTEM. THE L	/E NUMBER ERLH_15C340 AT 15000 SYMBOL INCLUDES LUMINAIRE, AR LUMINAIRE IS A CUTOFF FIXTURE L	O LUMENS. M, POLE ATTACHED DESIGNED FOR
	98 WATT LED LUMINAIRES ATTACHED ON ANALYZED USING GENERAL ELECTRIC LIG AT 11500 LUMENS. POLE MOUNTING HEIG LUMINAIRE, DUAL ARMS, POLE WITH STAI AND POLE CABLE DISTRIBUTION SYSTEM. DISTRIBUTION WITH ZERO TILT.	GHTING LUMINAIRE, P HT IS 35 FT AND BC NDARD FOUNDATION,	HOTOMETRIC CURVE NUMBER ERLF ITH ARM LENGTHS ARE 8 FT. SYMB BREAKAWAY TRANSFORMER BASE,	1_11C340 OL INCLUDES CONCRETE SLAB
• —	ONE CONDUIT INSTALLED BY OPEN TRENG GROUND BONDING CONDUCTOR (GREEN IN			OPPER
••	ONE CONDUIT INSTALLED BY BRIDGE MOU COPPER GROUND BONDING CONDUCTOR (G			
	TWO CONDUIT INSTALLED BY DIRECTIONA COPPER GROUND BONDING CONDUCTOR (G			(1)
	PROPOSED TYPICAL FDOT SHOULDER MOU 36" X 36". PULL BOX COVER SIZE 13" X 2			SLAB OF
	PROPOSED LOAD CENTER "A" AND "B" 24G AND SPECIFICATIONS INCLUDING THE ME FP&L REQUIREMENTS. INCLUDE A MANUA	ETER ENCLOSURE WI	TH BASE AND SERVICE DISCONNEC	CT PER

POLE	CIRCUIT	ST AT I ON	# OF	DIST.	LUMINAIRE	MOUNT ING	POLE SETBACK	PAY ITEM
NO.			LUMINAIRE	OR ARM	WATTAGE	HEIGHT		
1	A-2	309+86 , RT	1	8'	136	40'	EDGE OF FOUNDATION 1.75' FROM BOS	715-4-13
2	A - 1	311+02, LT	1	8'	136	40'	EDGE OF FOUNDATION 1.75' FROM BOS	715-4-13
3	A-2	312+17 , RT	1	8'	136	40 '	WALL MOUNTED	715-4-13
4	A - 1	313+35 , LT	1	8'	136	40'	WALL MOUNTED	715-4-13
5	A-2	314+49 , RT	1	8'	136	40 '	WALL MOUNTED	715-4-13
6	A - 1	315+67 , LT	1	8'	136	40 '	WALL MOUNTED	715-4-13
7	A-2	316+81, RT	1	8'	136	40 '	WALL MOUNTED	715-4-13
8	A - 1	317+97 , LT	1	8'	136	40 '	WALL MOUNTED	715-4-13
9	A-2	319+06 , RT	1	8'	136	40 '	WALL MOUNTED	715-4-13
10	A - 1	320+12 , LT	1	8'	136	40 '	BRIDGE MOUNTED	715-4-13
11	A-2	321+11, RT	1	8'	136	40 '	BRIDGE MOUNTED	715-4-13
12	A - 1	322+00, LT	1	8'	136	40 '	BRIDGE MOUNTED	715-4-13
13	A-2	322+99, RT	1	8'	136	40 '	BRIDGE MOUNTED	715-4-13
14	A-1	324+12, LT	1	8'	136	40 '	WALL MOUNTED	715-4-13
15	A-2	325+26 , RT	1	8'	136	40 '	WALL MOUNTED	715-4-13
16	A - 1	326+40, LT	1	8'	136	40 '	WALL MOUNTED	715-4-13
17	A-2	327+54, RT	1	8 '	136	40 '	WALL MOUNTED	715-4-13
18	A-1	328+68, LT	1	8'	136	40 '	WALL MOUNTED	715-4-13
19	A-2	329+82, RT	1	8 '	136	40 '	WALL MOUNTED	715-4-13
20	A - 1	330+97, LT	1	8'	136	40 '	WALL MOUNTED	715-4-13
21	A-2	332+10, RT	1	8'	136	40 '	EDGE OF FOUNDATION 1.75' FROM BOS	715-4-13
22	A - 1	333+20 , LT	1	8'	136	40 '	EDGE OF FOUNDATION 1.75' FROM BOS	715-4-13
23	A-2	333+59, RT	1	8'	136	40 '	EDGE OF FOUNDATION 1.75' FROM BOS	715-4-13
24	A - 4	334+59, RT	1	8'	136	40 '	EDGE OF FOUNDATION 1.25' FROM BOS	715-4-13
25	A - 4	214+75, LT	1	8'	136	40 '	EDGE OF FOUNDATION 1.25' FROM BOS	715-4-13
26	A - 4	214+68, RT	1	8'	136	40 '	EDGE OF FOUNDATION 1.75' FROM BOS	715-4-13
27	B - 2	336+32, RT	1	8'	136	40 '	EDGE OF FOUNDATION 1.75' FROM BOS	715-4-13
28	A-3	336+29 , LT	1	8'	136	40 '	EDGE OF FOUNDATION 1.75' FROM BOS	715-4-13
29	A-3	218+18 , RT	1	8'	136	40 '	EDGE OF FOUNDATION 1.75' FROM BOS	715-4-13
30	A-3	218+17, LT	1	8'	136	40 '	EDGE OF FOUNDATION 1.75' FROM BOS	715-4-13
31	A-3	334+57 , LT	1	8'	136	40'	EDGE OF FOUNDATION 1.75' FROM BOS	715-4-13
32	B - 2	337+16 , RT	1	8'	136	40'	EDGE OF FOUNDATION 1.75' FROM BOS	715-4-13
33	A-3	337+34 , LT	1	8'	136	40'	EDGE OF FOUNDATION 1.75' FROM BOS	715-4-13
34	B - 2	338+35 , RT	1	8'	136	40'	EDGE OF FOUNDATION 1.75' FROM BOS	715-4-13
35	B - 1	339+00 , LT	1	8'	136	40'	EDGE OF FOUNDATION 1.25' FROM BOS	715-4-13
36	B - 2	340+10 , RT	1	8'	136	40'	EDGE OF FOUNDATION 1.75' FROM BOS	715 - 4 - 13
37	B - 1	341+25, LT	1	8'	136	40'	EDGE OF FOUNDATION 1.75' FROM BOS	715-4-13
38	B - 2	342+40 , RT	1	8'	136	40'	EDGE OF FOUNDATION 1.75' FROM BOS	715 - 4 - 13
39	B - 1	343+55 , LT	1	8'	136	40'	EDGE OF FOUNDATION 1.25' FROM BOS	715 - 4 - 13
40	B - 2	344+70 , RT	1	8'	136	40'	EDGE OF FOUNDATION 1.75' FROM BOS	715 - 4 - 13
41	B - 1	345+85, LT	1	8'	136	40 '	EDGE OF FOUNDATION 1.25' FROM BOS	715-4-13
42	B-1 B-2	347+00 , RT	1	8'	136	40 '	EDGE OF FOUNDATION 1.75' FROM BOS	715-4-13
43	B - 1	348+13 , LT	1	8'	136	40 '	EDGE OF FOUNDATION 1.25' FROM BOS	715-4-13
44	B-1 B-2	349+25, RT	1	8'	136	40 '	EDGE OF FOUNDATION 1.75' FROM BOS	715-4-13
45	B - 2	350+36 , LT	1	8'	136	40 '	EDGE OF FOUNDATION 1.73 FROM BOS	715-4-13
45	B-1 B-2	350+36, LT 351+46, RT	1	8'	136	40 '	EDGE OF FOUNDATION 1.25 FROM BOS	715-4-13
46	B-2 B-1	351+46, RT 352+61, LT	1	8'	136	40 '	EDGE OF FOUNDATION 1.75 FROM BOS	
48	B-1 B-2	352+61, LT 353+71, RT	1	8'	136	40'	EDGE OF FOUNDATION 1.25 FROM BOS	
				8'		40 '	EDGE OF FOUNDATION 1.75 FROM BOS EDGE OF FOUNDATION 1.25' FROM BOS	
49	B - 1	354+87 , LT 355+99 , RT	1	8'	136	40'		715 - 4 - 13
50	B-2		1		136		EDGE OF FOUNDATION 1.75' FROM BOS	715 - 4 - 13
51	B - 1	357+12, LT	1	8'	136	40'	EDGE OF FOUNDATION 1.25' FROM BOS	/15-4-13 II
52	B - 2	358+24, RT	1	8'	136	40'	EDGE OF FOUNDATION 1.75' FROM BOS	715-4-13 715-4-13
53	B - 1	359+36 , LT	1	8'	136	40'	EDGE OF FOUNDATION 1.25' FROM BOS	715-4-13
54	B - 2	360+50 , RT	1	8'	136	40'	EDGE OF FOUNDATION 1.75' FROM BOS	715-4-13
55	B - 1	361+61, LT	1	8'	136	40'	EDGE OF FOUNDATION 1.25' FROM BOS	715-4-13
B <i>OS</i> -	BACK OF	SIDEWALK						

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No.	REVISIONS	DATE	BY	LR	

HDR ENGINEERING, INC. 2601 CATTLEMEN ROAD, SUITE 400 SARASOTA, FLORIDA 34232

DATE 02/2022 PROJECT NO. 6045662

Manatee MANATEE COUNTY
County PUBLIC WORKS

DESIGN ENGINEER MICHAEL J. OATES FL. LICENSE NO.

POLE DATA AND LEGEND (1) SHEET NO.

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2/23/2022

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L-7

POLE DATA

POLE NO .	CIRCUIT	STATION	# OF LUMINAIRE	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNT I NG HE I GHT	POLE SETBACK	PAY ITEM
56	B - 2	362+77 , RT	1	8'	136	40'	WALL MOUNTED	715-4-13
57	B - 1	363+89, LT	1	8'	136	40 '	WALL MOUNTED	715-4-13
58	B-2	365+05 , RT	1	8'	136	40'	WALL MOUNTED	715-4-13
59	B - 1	366+19, LT	1	8'	136	40 '	WALL MOUNTED	715-4-13
60	B - 2	367+33 . RT	1	8'	136	40'	WALL MOUNTED	715 - 4 - 13
61	B - 1	368+48 , LT	1	8'	136	40 '	WALL MOUNTED	715-4-13
62	B-2	369+64, RT	1	8'	136	40'	WALL MOUNTED	715-4-13
63	B - 1	370+78, LT	1	8'	136	40'	WALL MOUNTED	715 - 4 - 13
64	B - 2	371+95, RT	1	8'	136	40'	WALL MOUNTED	715 - 4 - 13
65	B - 1	373+07 , LT	1	8'	136	40'	WALL MOUNTED	715-4-13
66	B - 2	374+24, RT	1	8'	136	40'	WALL MOUNTED	715 - 4 - 13
67	B - 1	375+38 , LT	1	8'	136	40'	WALL MOUNTED	715-4-13
68	B-2	376+51, RT	1	8'	136	40'	EDGE OF FOUNDATION 5.0' FROM BOS	715-4-13
69	B-3	377+69, LT	1	8'	136	40 '	EDGE OF FOUNDATION 1.75' FROM BOS	715-4-13
70	B - 4	378+85, RT	1	8'	136	40'	EDGE OF FOUNDATION 1.75' FROM BOS	715 - 4 - 13
71	B-3	379+98 , LT	1	8'	136	40'	EDGE OF FOUNDATION 1.75' FROM BOS	715-4-13
72	B - 4	381+13, RT	1	8'	136	40'	EDGE OF FOUNDATION 1.75' FROM BOS	715 - 4 - 13
73	B-3	382+29, LT	1	8'	136	40 '	EDGE OF FOUNDATION 1.75' FROM BOS	715-4-13
74	B-3	383+44, RT	1	8'	136	40 '	EDGE OF FOUNDATION 1.75' FROM BOS	715-4-13
75	B-3	384+59, LT	1	8'	136	40 '	EDGE OF FOUNDATION 1.75' FROM BOS	715 - 4 - 13
76	B - 4	385+73, RT	1	8'	136	40 '	EDGE OF FOUNDATION 1.75' FROM BOS	715 - 4 - 13
77	B-3	386+89, LT	1	8'	136	40'	EDGE OF FOUNDATION 1.75' FROM BOS	715 - 4 - 13
78	B-4	388+03, RT	1	8'	136	40 '	EDGE OF FOUNDATION 1.75' FROM BOS	715 - 4 - 13
79	B-3	389+16 , LT	1	8'	136	40'	EDGE OF FOUNDATION 1.75' FROM BOS	715-4-13
80	B - 4	390+68, RT	1	8'	136	40'	EDGE OF FOUNDATION 1.75' FROM BOS	715 - 4 - 13
81	B-3	390+69, LT	1	8'	136	40'	EDGE OF FOUNDATION 1.75' FROM BOS	715 - 4 - 13
82	B - 4	392+14, RT	1	8'	136	40'	EDGE OF FOUNDATION 1.75' FROM BOS	715 - 4 - 13
83	B-3	392+23 , LT	1	8'	136	40'	EDGE OF FOUNDATION 1.75' FROM BOS	715-4-13
84	B - 4	393+52, RT	1	8'	136	40'	EDGE OF FOUNDATION 1.75' FROM BOS	715 - 4 - 13
85	B-3	393+51 , LT	1	8'	136	40'	EDGE OF FOUNDATION 1.75' FROM BOS	715 - 4 - 13
86	B-3	395+04, LT	1	8'	136	40'	EDGE OF FOUNDATION 6.0' FROM BOS	715 - 4 - 13
87 (71D6)	EXIST. CKT D	395+29 , RT	1	15'	136	35'	EXISTING POLE AND ARM TO REMAIN	715-11-30
88 (71A6)	EXIST: CKT A	396+25, LT	1	15'	136	35'	EXISTING POLE AND ARM TO REMAIN	715-11-30
89 (71D5)	EXIST: CKT D	397+24, RT	1	15'	136	35'	EXISTING POLE AND ARM TO REMAIN	715-11-30
90 (71A5)	EXIST. CKT A	398+14, LT	1	15'	136	35'	EXISTING POLE AND ARM TO REMAIN	715-11-30
91 (71D4)	EXIST. CKT D	399+10 , RT	1	15'	136	35'	EXISTING POLE AND ARM TO REMAIN	715-11-30
92 (71A4)	EXIST. CKT A	400+03, LT	1	15'	136	35'	EXISTING POLE AND ARM TO REMAIN	715-11-30
93 (71D3)	EXIST: CKT D	400+98 , RT	1	15'	136	35'	EXISTING POLE AND ARM TO REMAIN	715-11-30
94 (71A3)	EXIST. CKT A	401+94, LT	1	15'	136	35'	EXISTING POLE AND ARM TO REMAIN	715-11-30
95 (71D2)	EXIST. CKT D	402+92, RT	1	15'	136	35'	EXISTING POLE AND ARM TO REMAIN	715-11-30
96 (71A2)	EXIST: CKT A	403+84 , LT	1	15'	136	35'	EXISTING POLE AND ARM TO REMAIN	715-11-30
, ,	EXIST. CKT D	404+81, RT	1	15'	136	35'	EXISTING POLE AND ARM TO REMAIN	715-11-30
	EXIST: CKT A	405+76, LT	1	15'	136	35 '	EXISTING POLE AND ARM TO REMAIN	715-11-30
	EXIST. CKT C	406+67 , RT	1	15'	136	35'	EXISTING POLE AND ARM TO REMAIN	715-11-30
	EXIST. CKT B	407+66, LT	1	15'	136	35'	EXISTING POLE AND ARM TO REMAIN	715-11-30
101	EXIST. CKT C	408+20 , RT	1	15'	136	35'	EDGE OF FOUNDATION 1.75' FROM BOS	715-4-12
101	A-4	213+10 , O'	2	8'	98	35'	MEDIAN MOUNTED	715-4-12
102	A-4 A-4	213+10, 0	2	8'	98	35 '	MEDIAN MOUNTED	715-4-12
104	A-4	209+50, 0'	2	8'	98	35'	MEDIAN MOUNTED	715-4-12
105	A-4	207+70, 0'	2	8'	98	35'	MEDIAN MOUNTED	715-4-12
106	A-4 A-4	205+90, 0'	2	8'	98	35 '	MEDIAN MOUNTED	715-4-12
106	A-4 A-4	203+90, 0	2	8'	98	35'	MEDIAN MOUNTED MEDIAN MOUNTED	715-4-12
107	A-4 A-4	202+30, 0'	2	8'	98	35 '	MEDIAN MOUNTED	715-4-12
	N OF SIDEWALK	· · · · · · · · · · · · · · · · · · ·	1 4] 30	رر	PILDIAN PIOONILD	/13-4-12

BOS - BACK OF SIDEWALK

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HDR ENGINEERING, INC. 2601 CATTLEMEN ROAD, SUITE 400 SARASOTA, FLORIDA 34232

DATE 02/2022 PROJECT NO.

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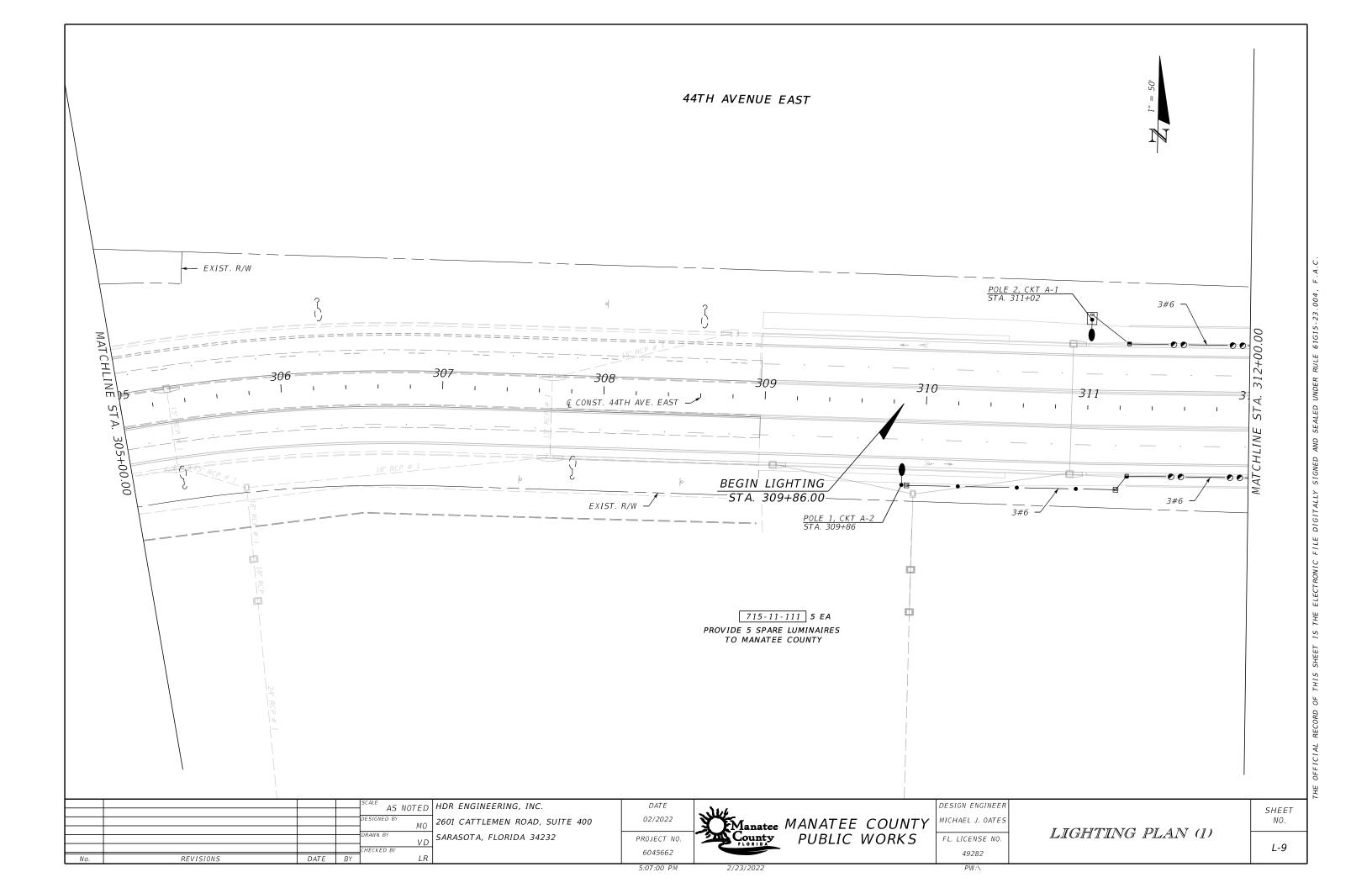
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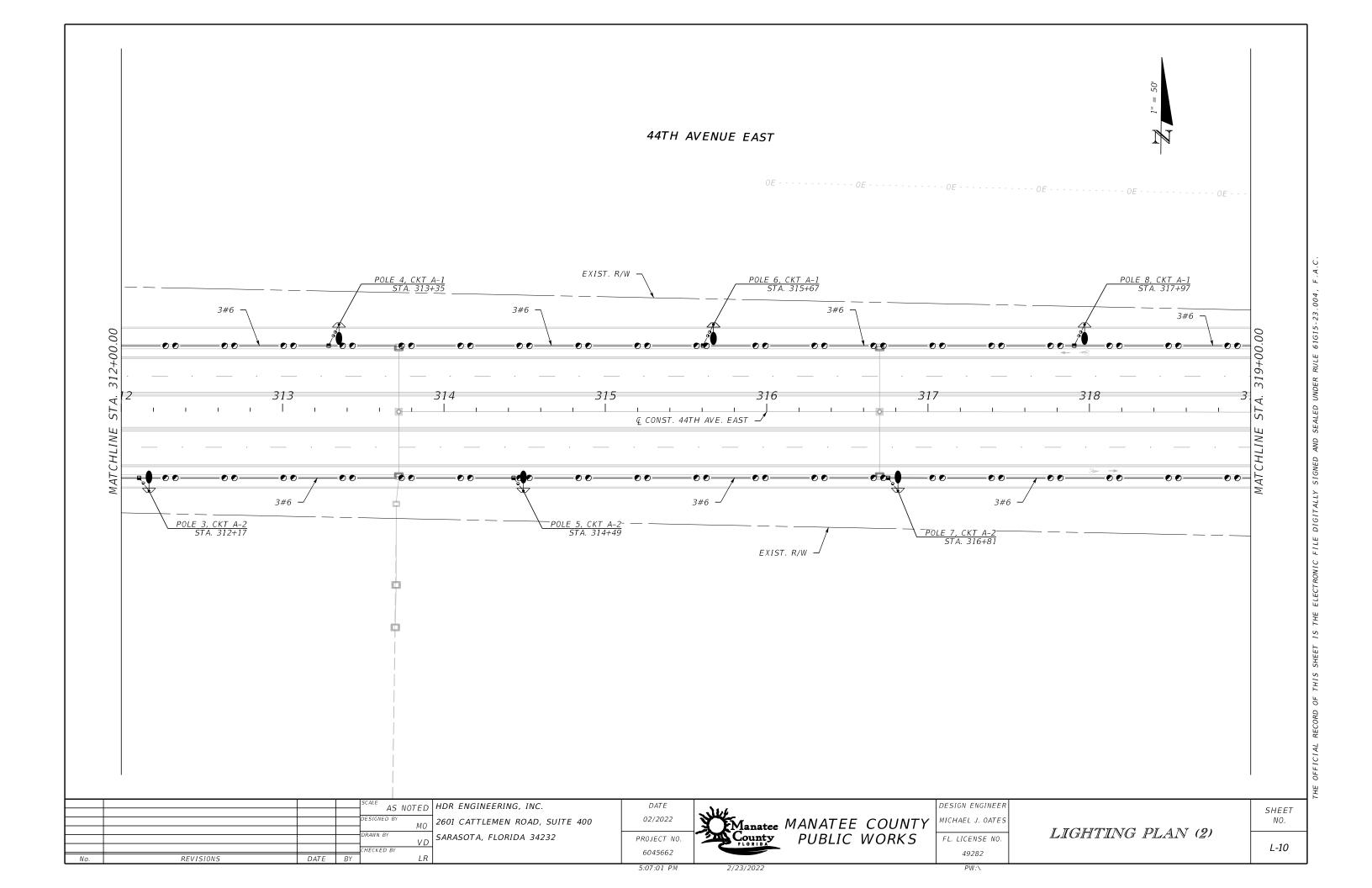
DESIGN ENGINEER MICHAEL J. OATES FL. LICENSE NO.

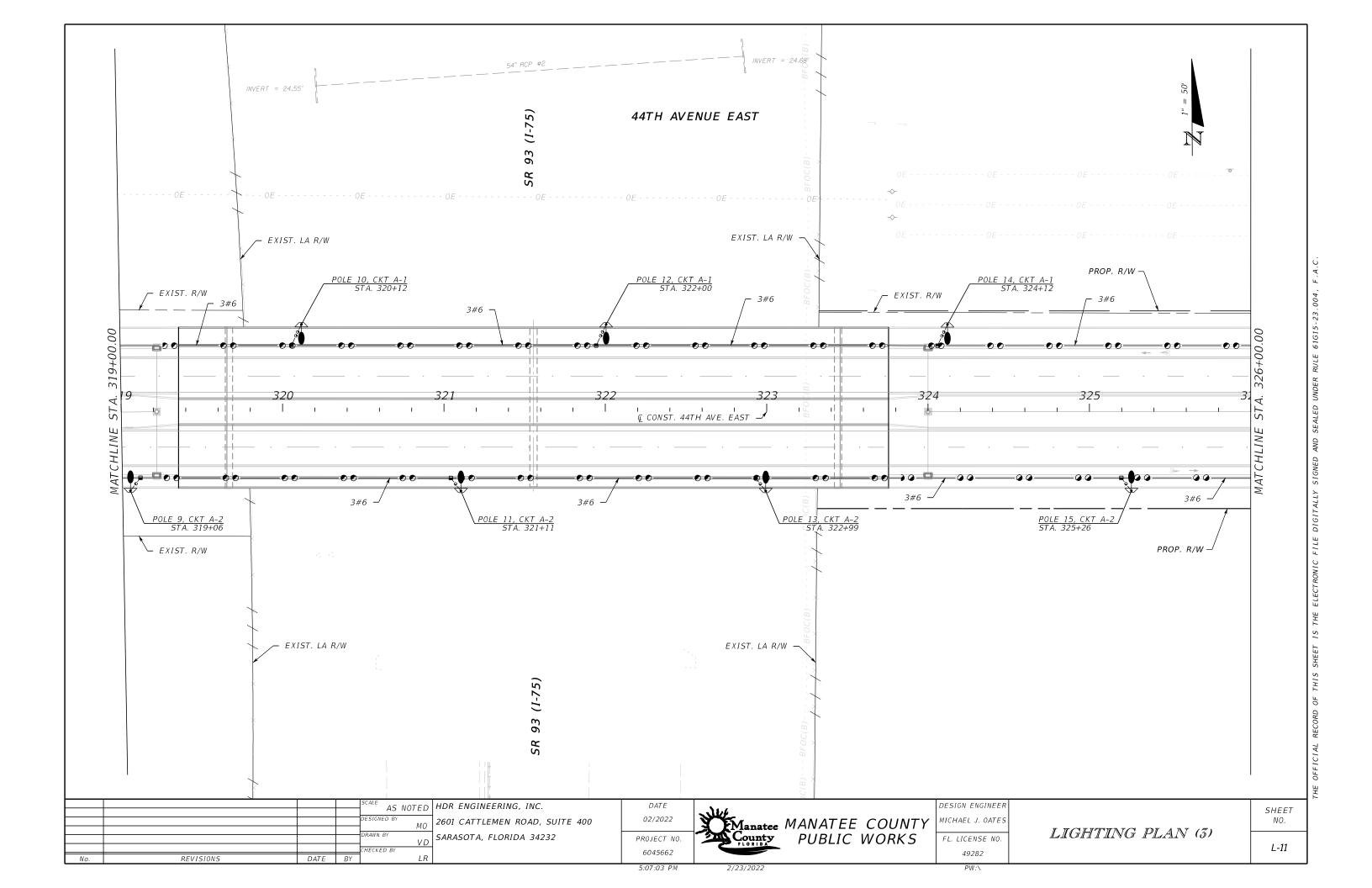
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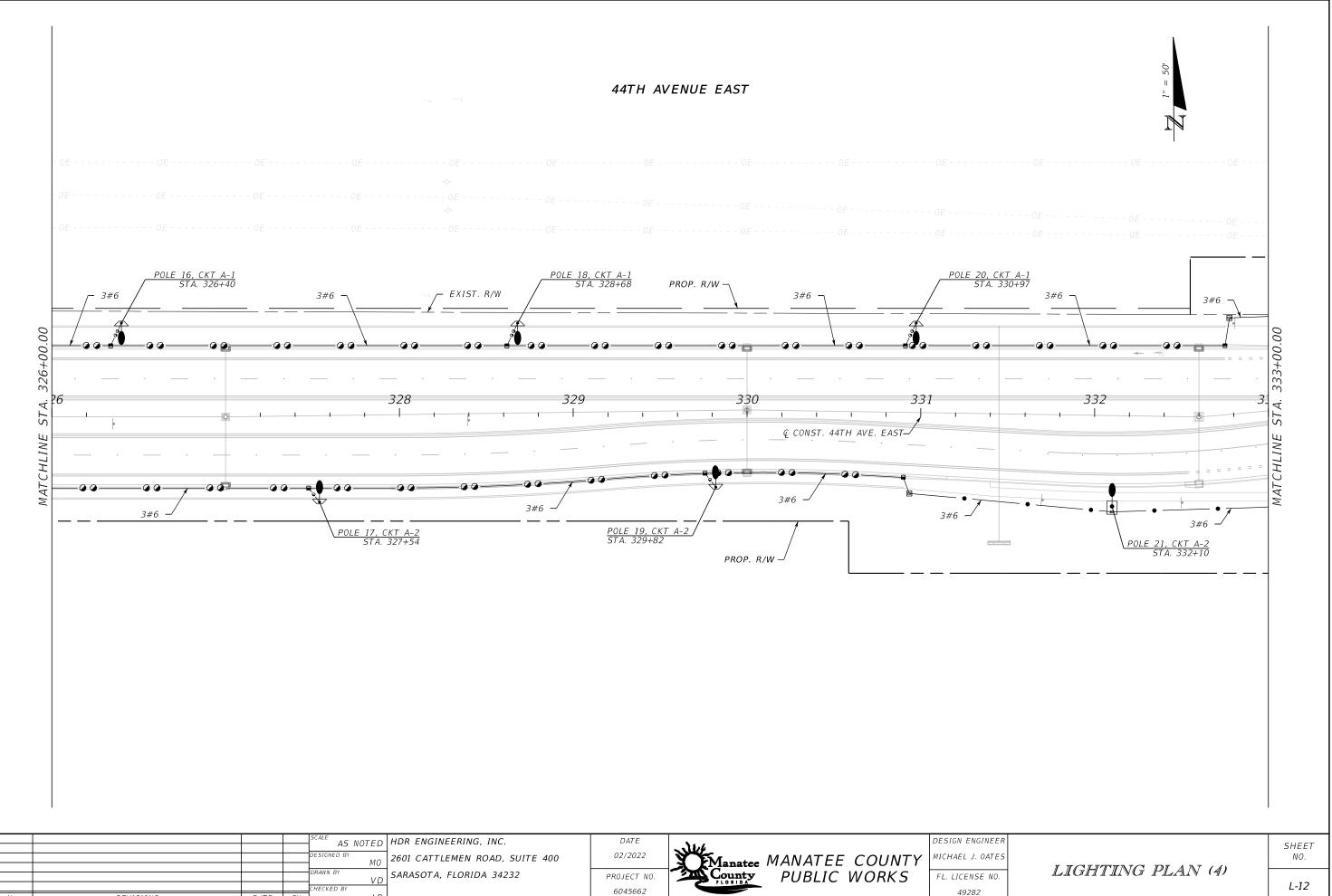
POLE DATA AND LEGEND (2) SHEET NO.

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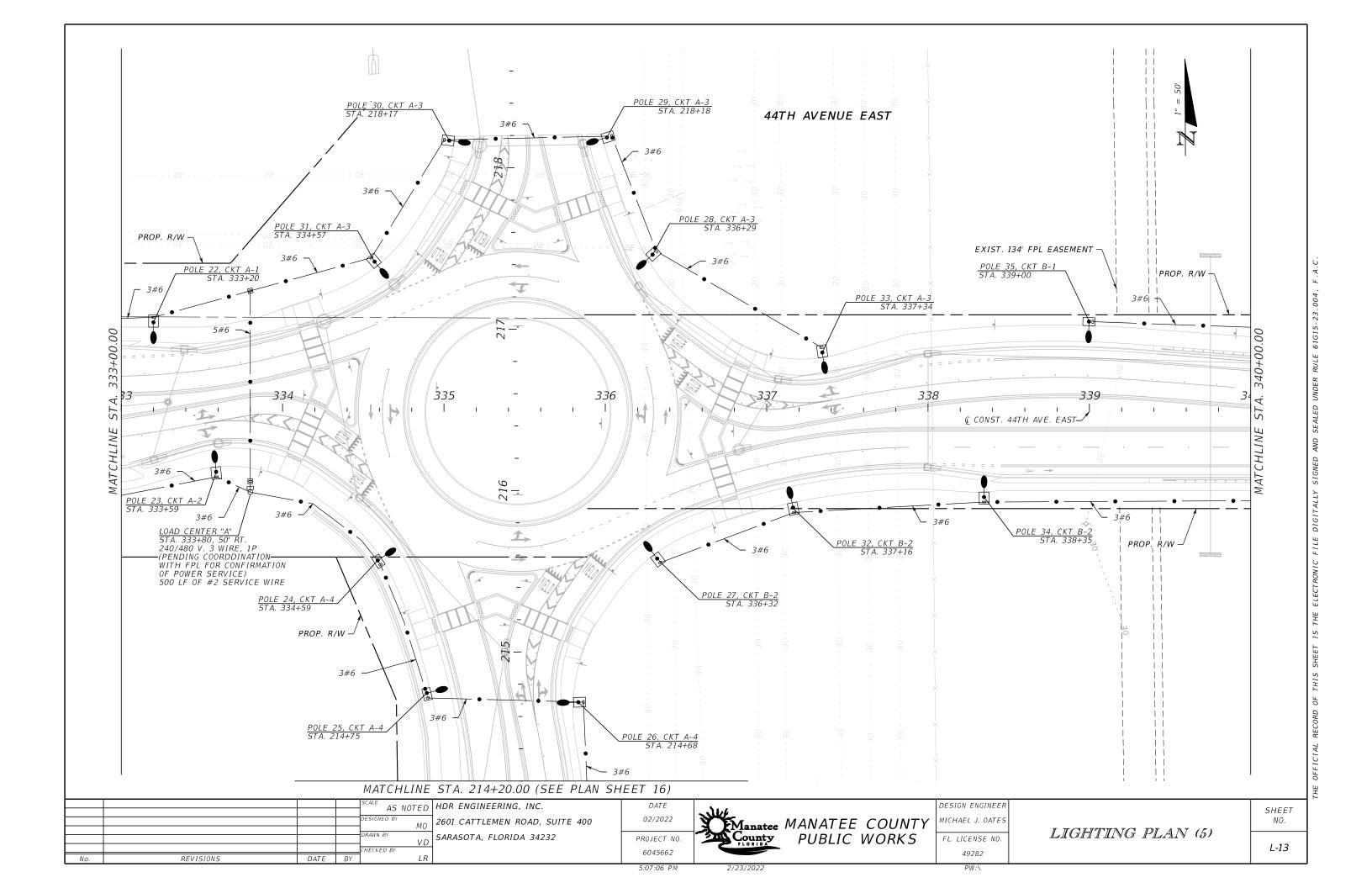


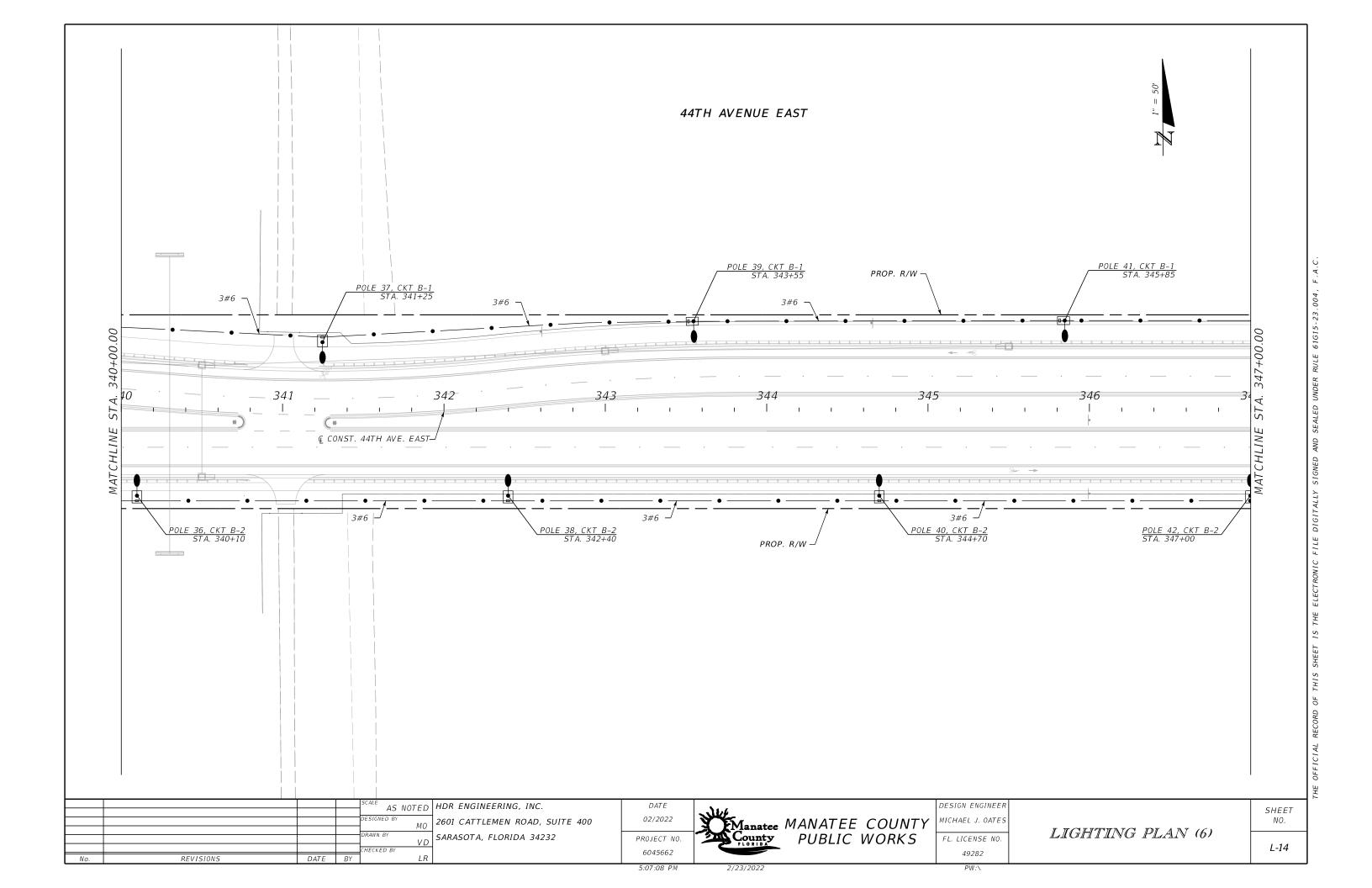
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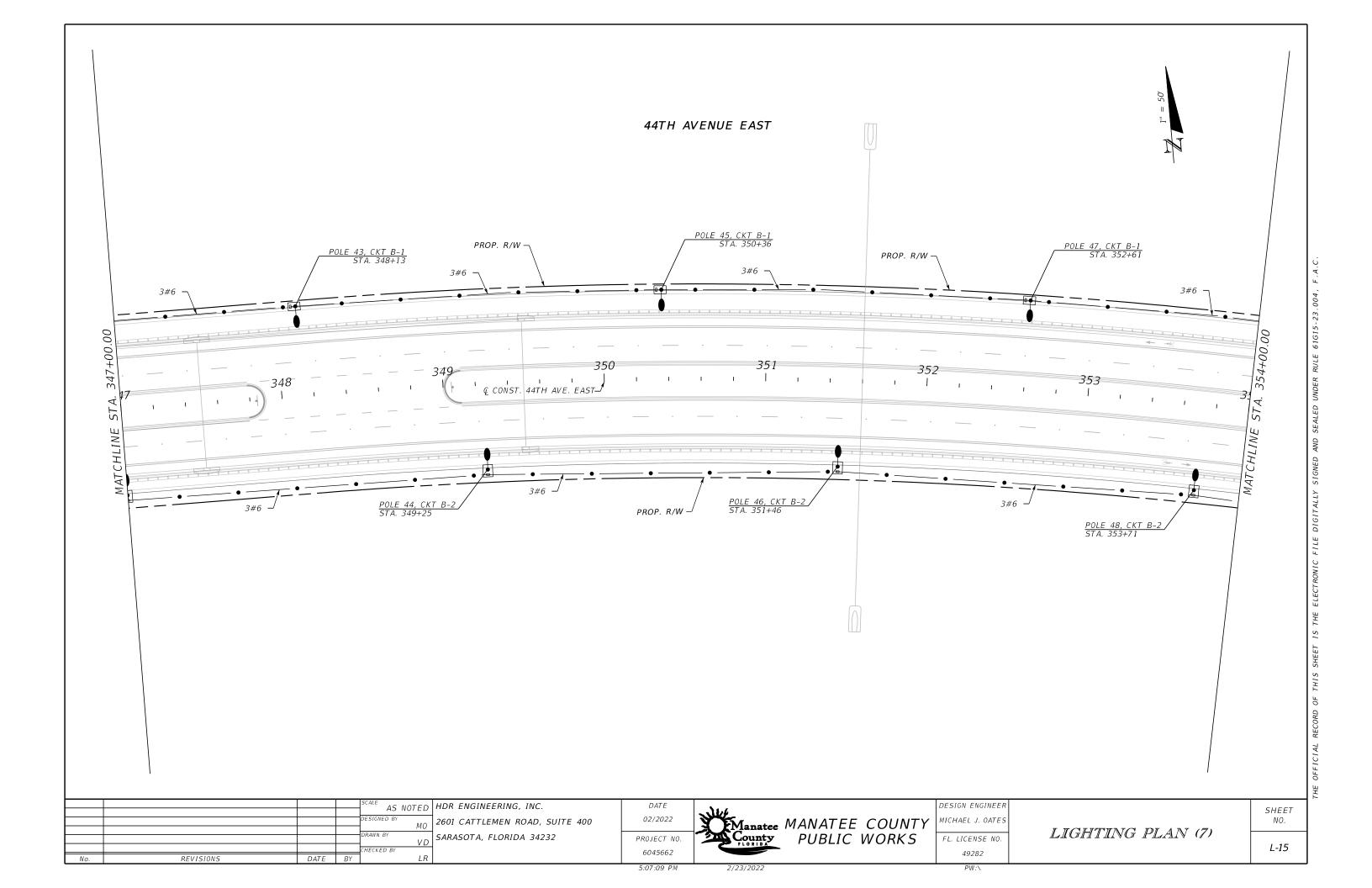
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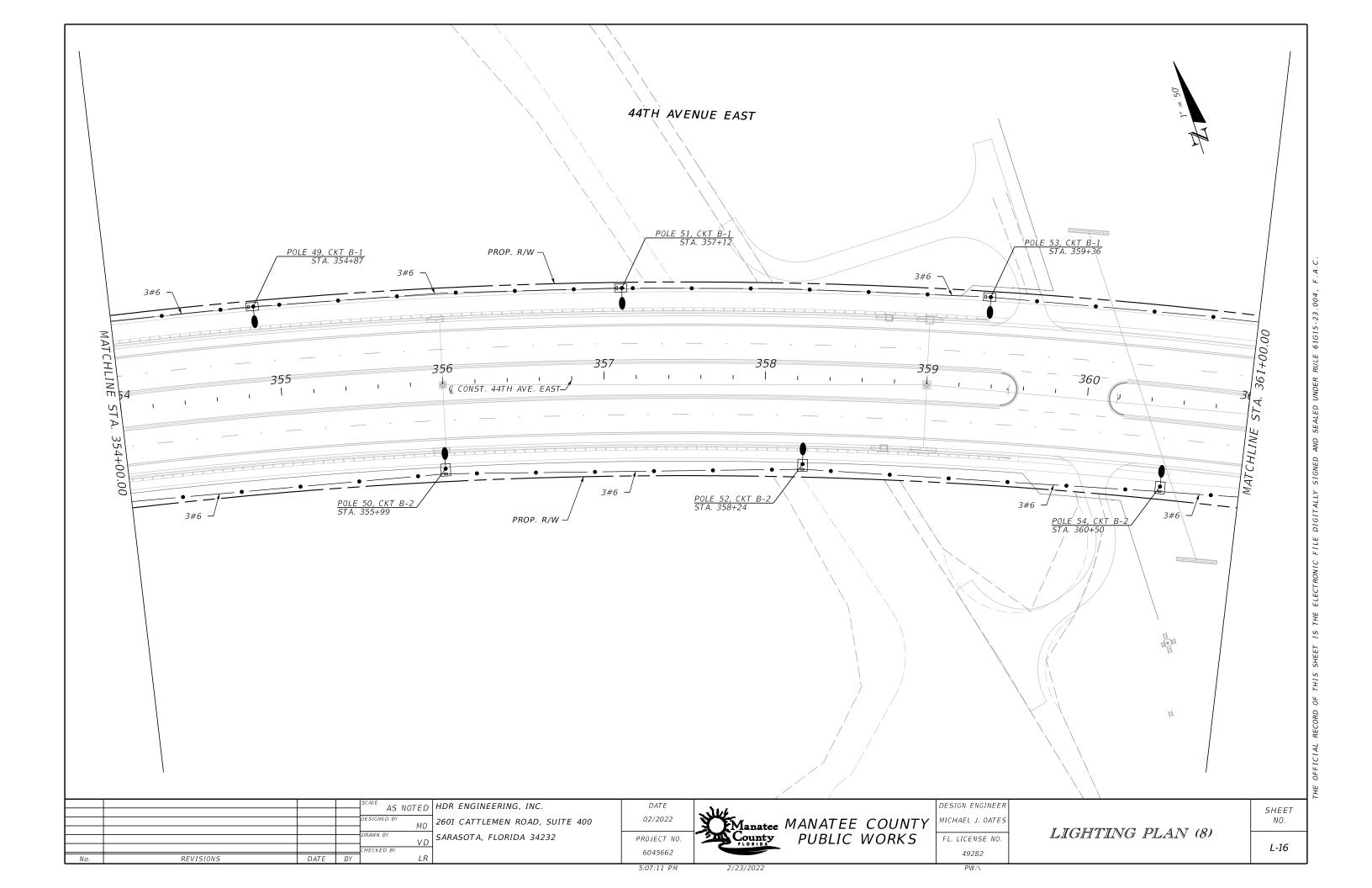
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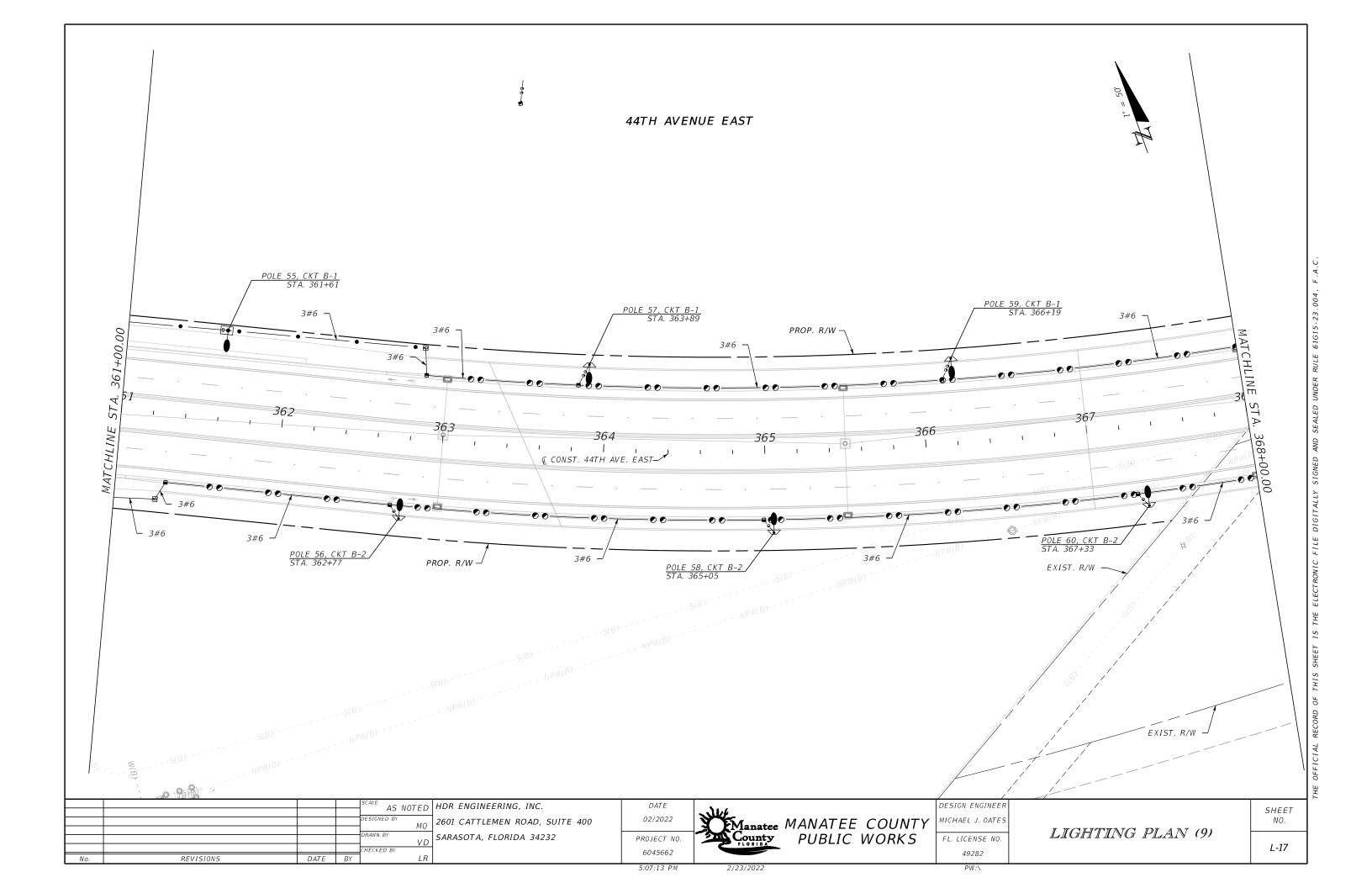
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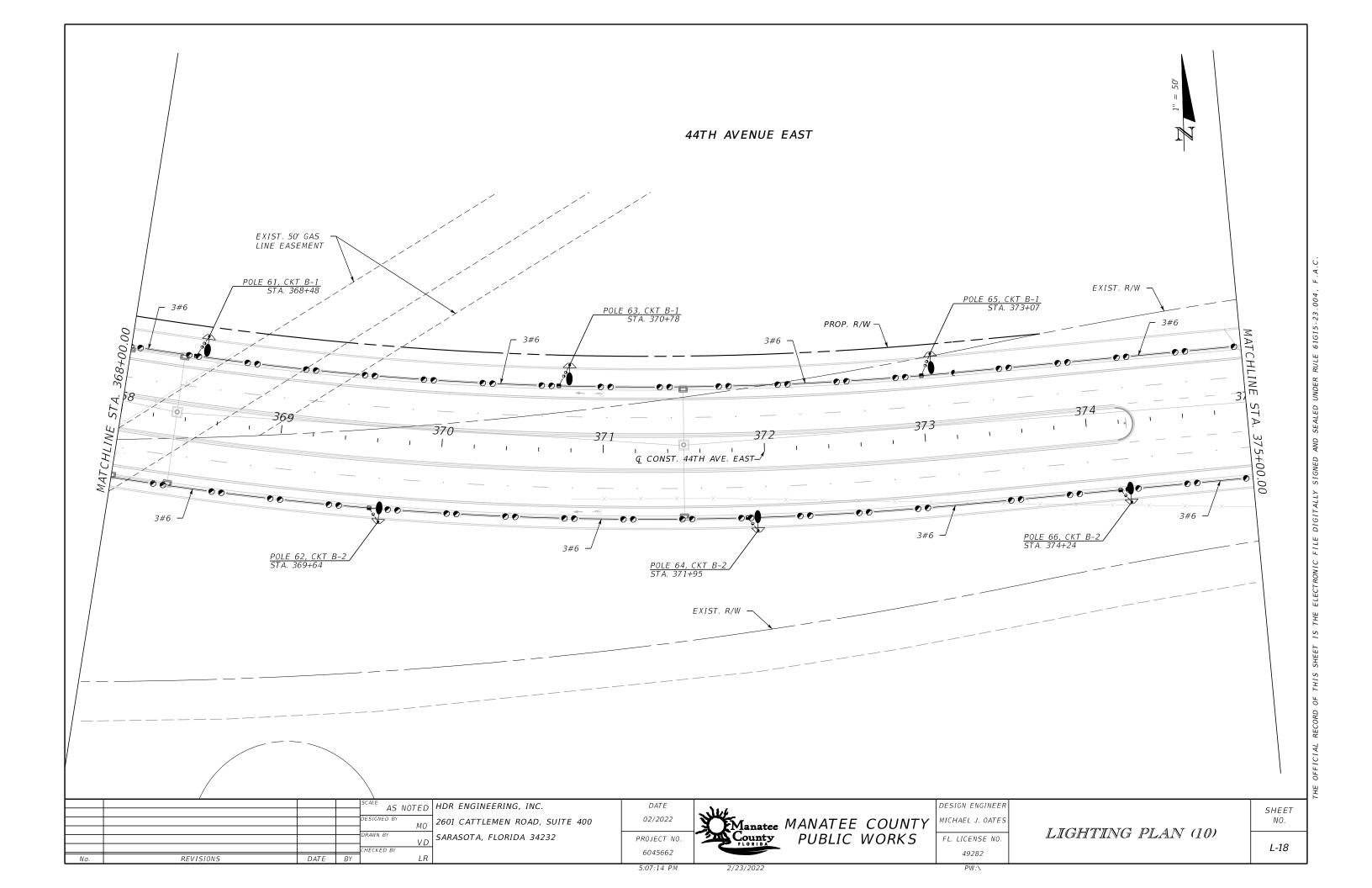


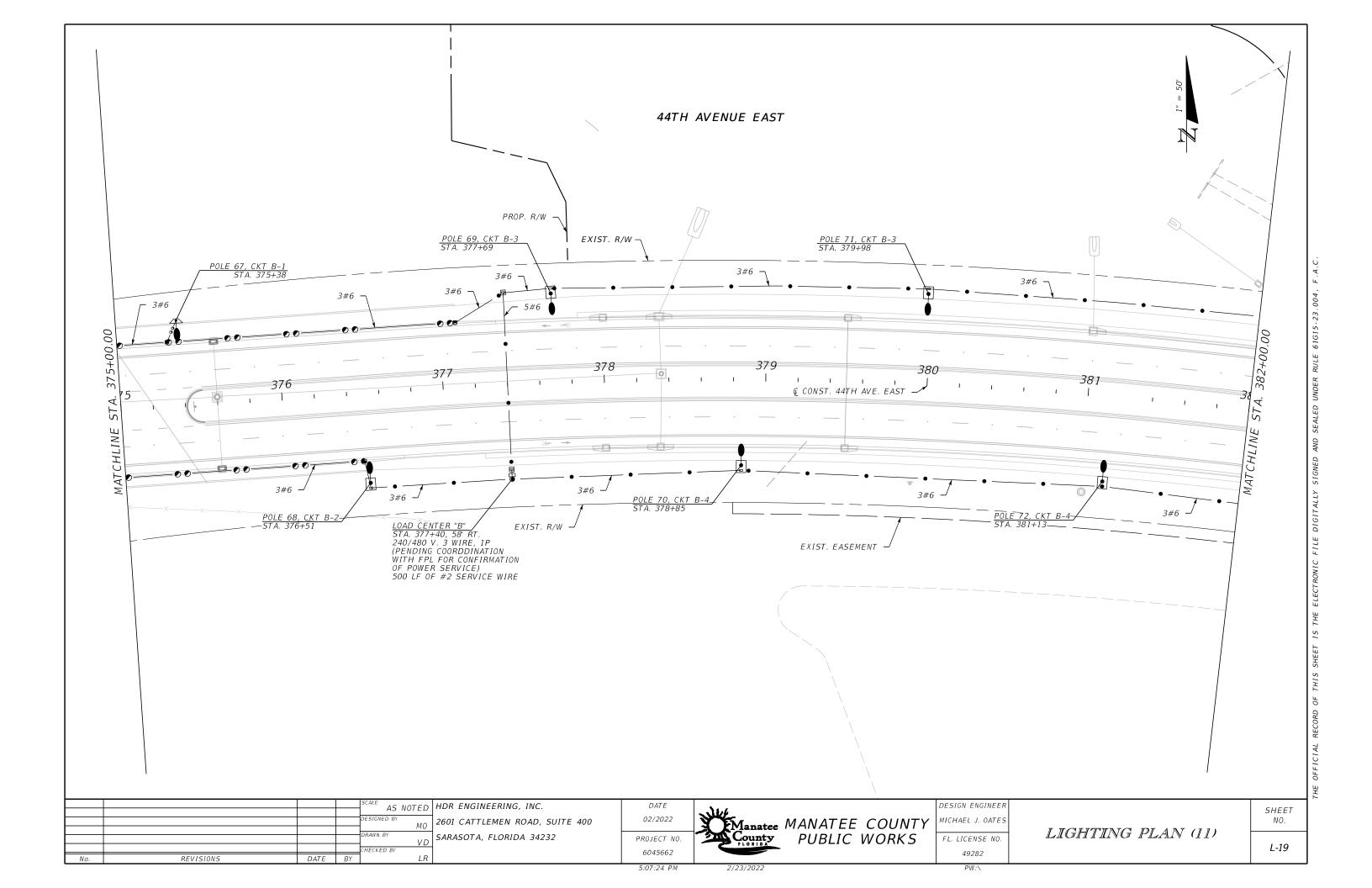


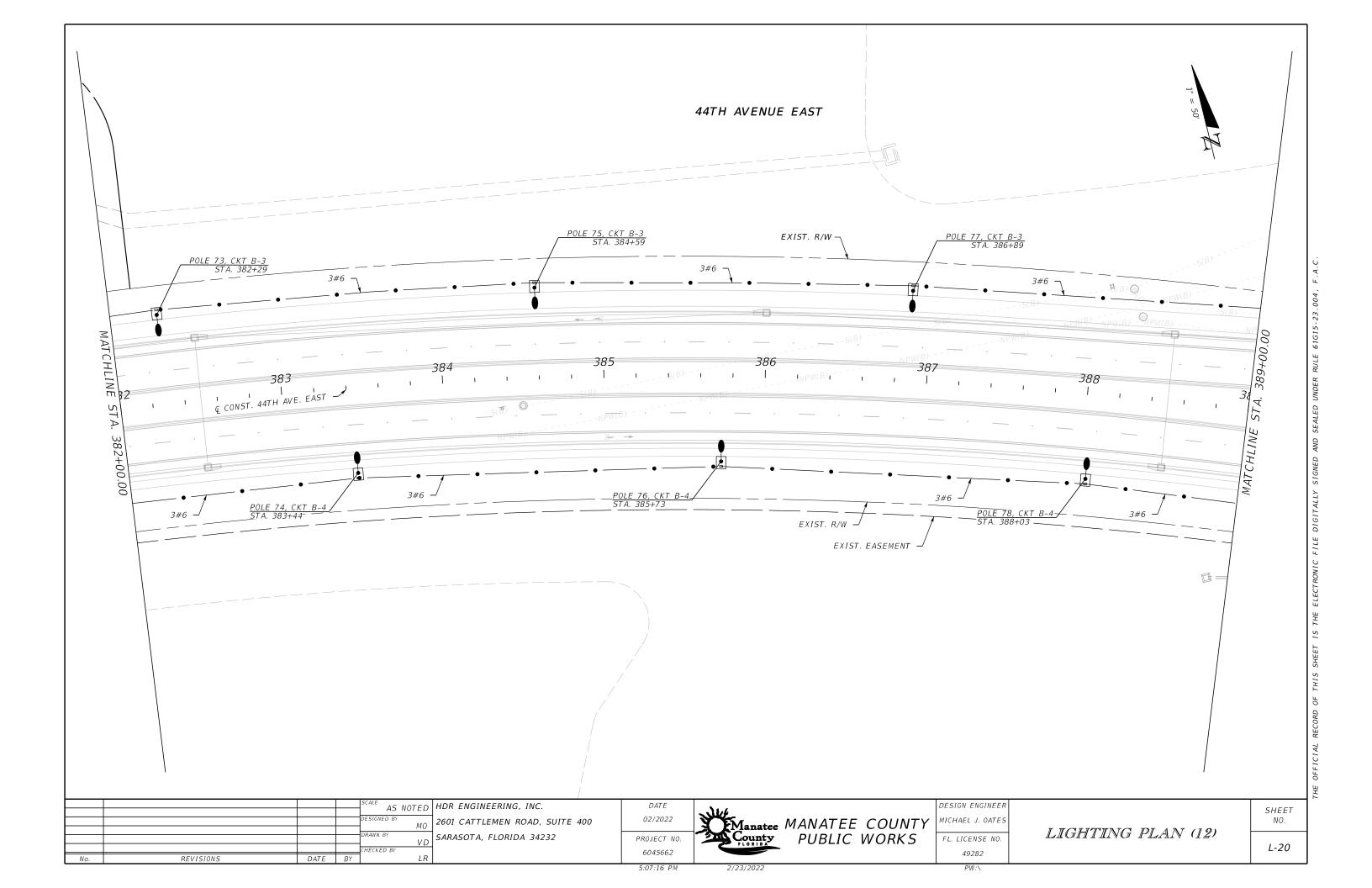


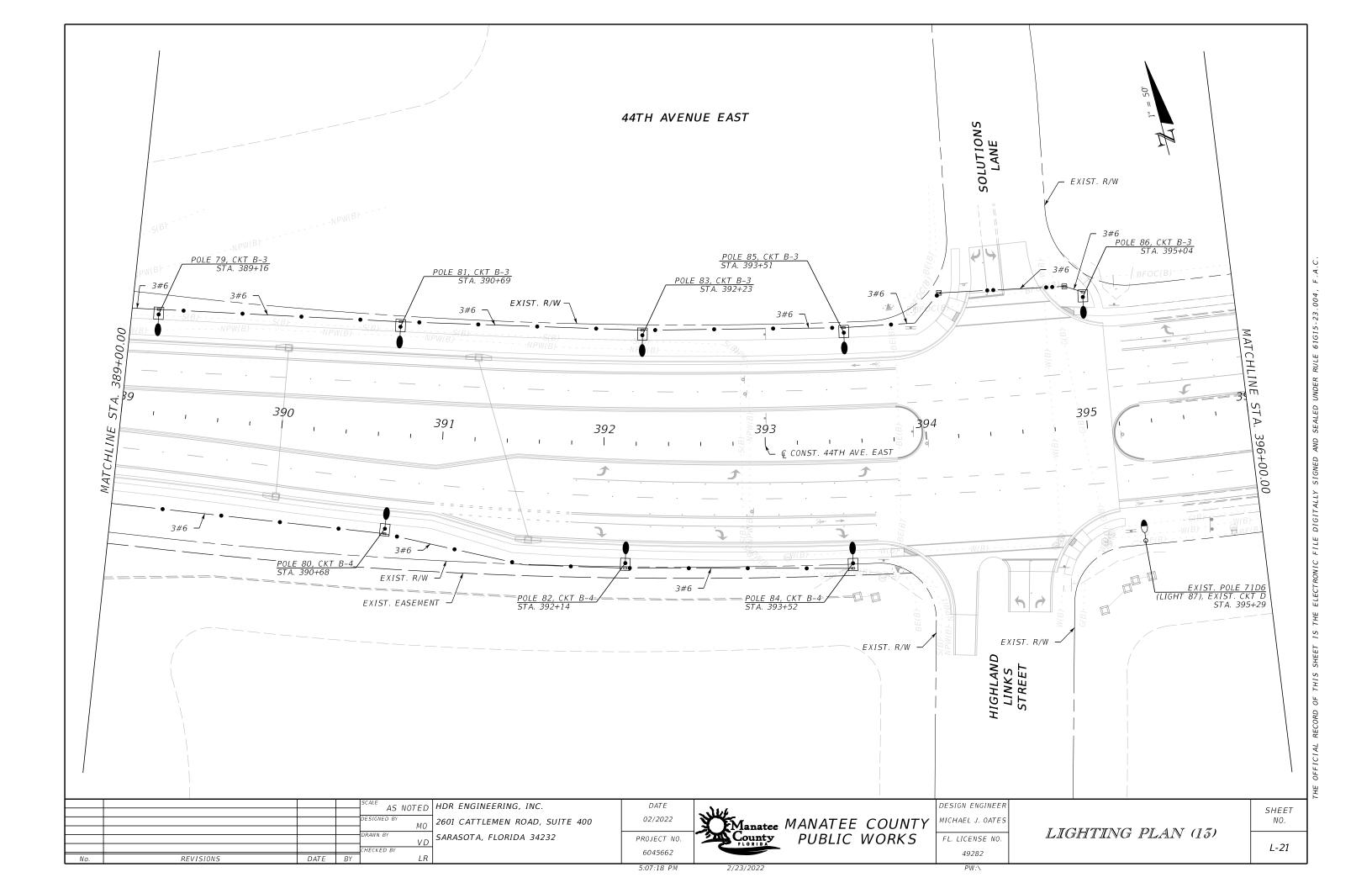


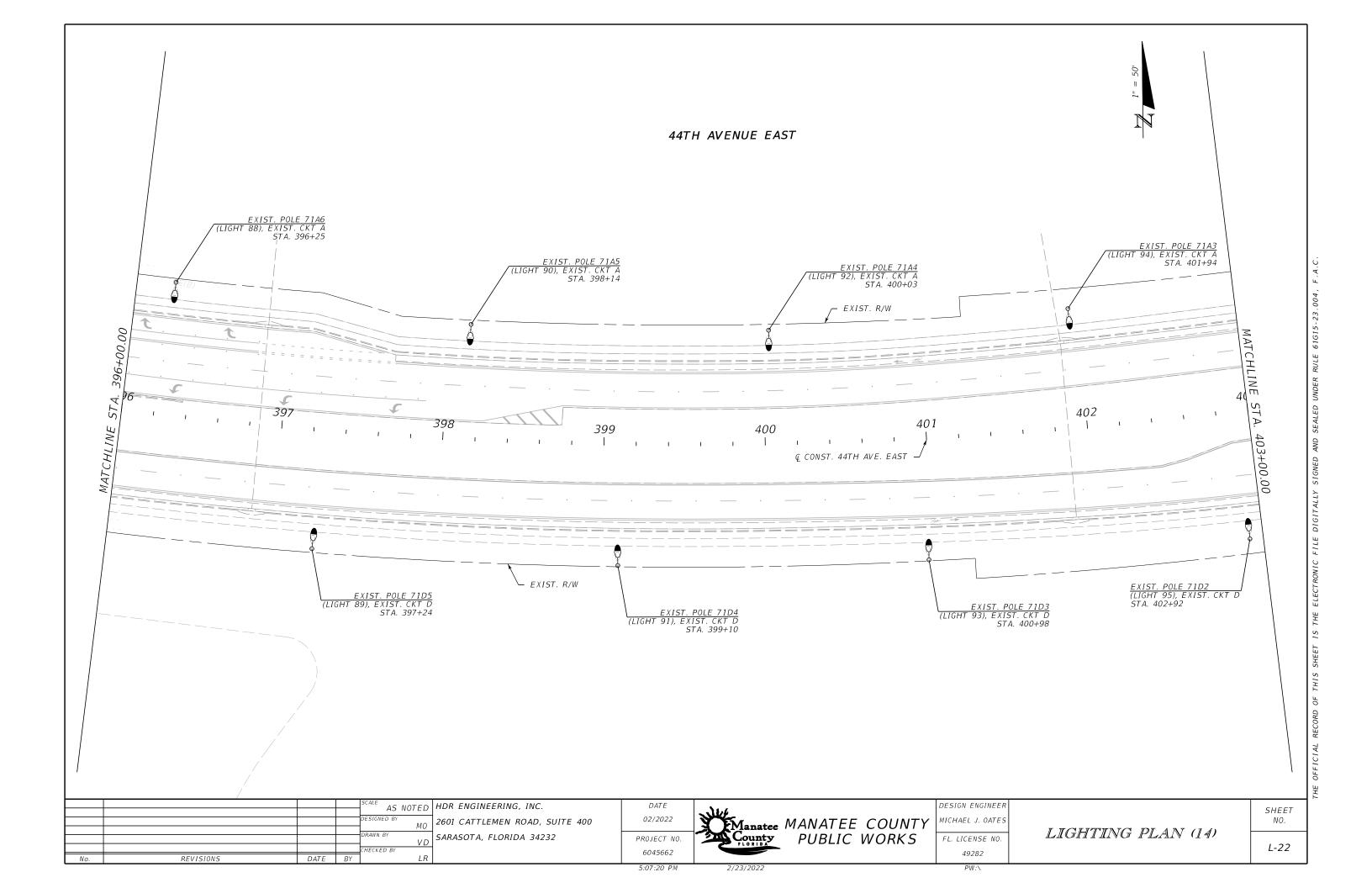


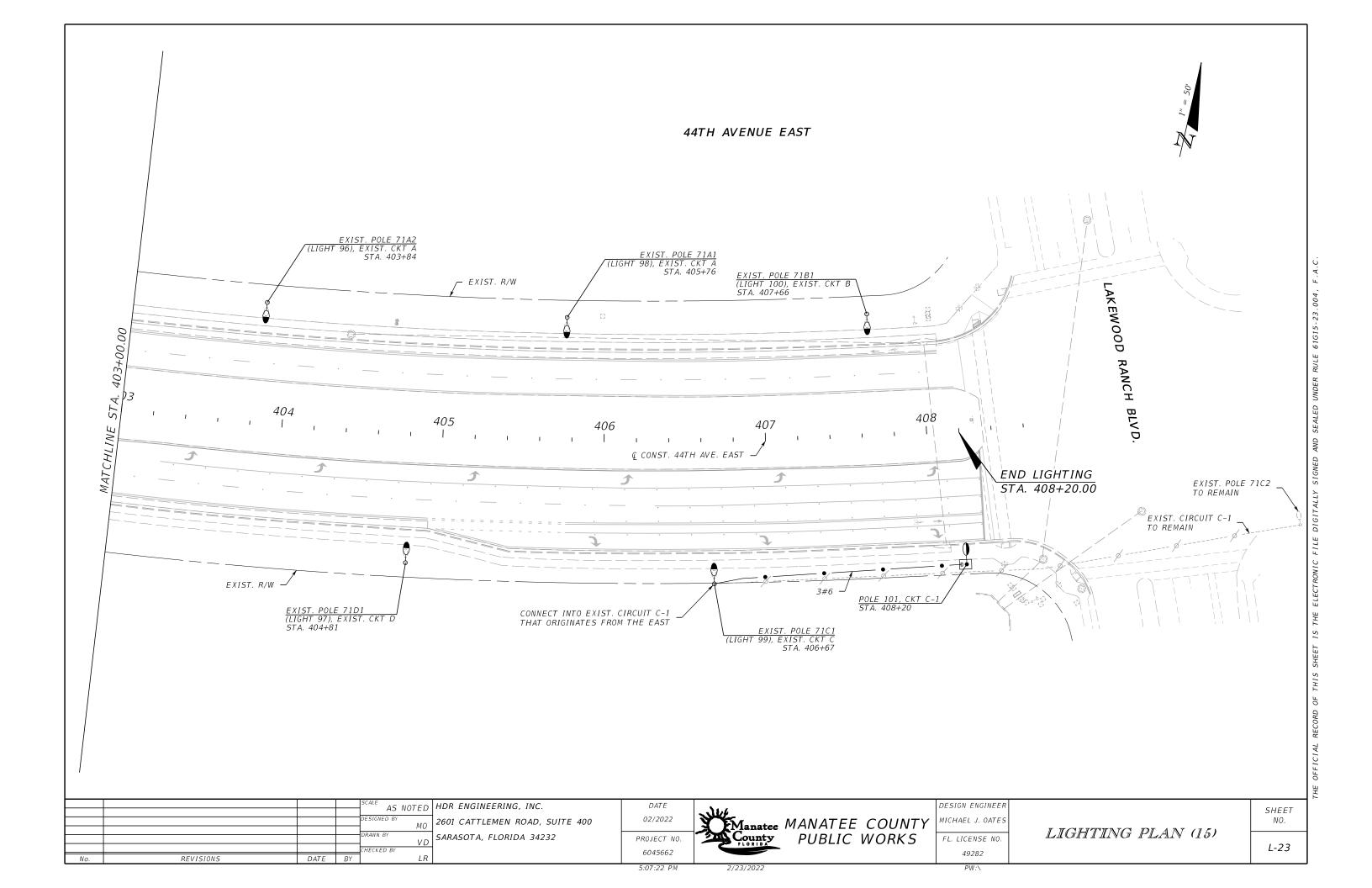


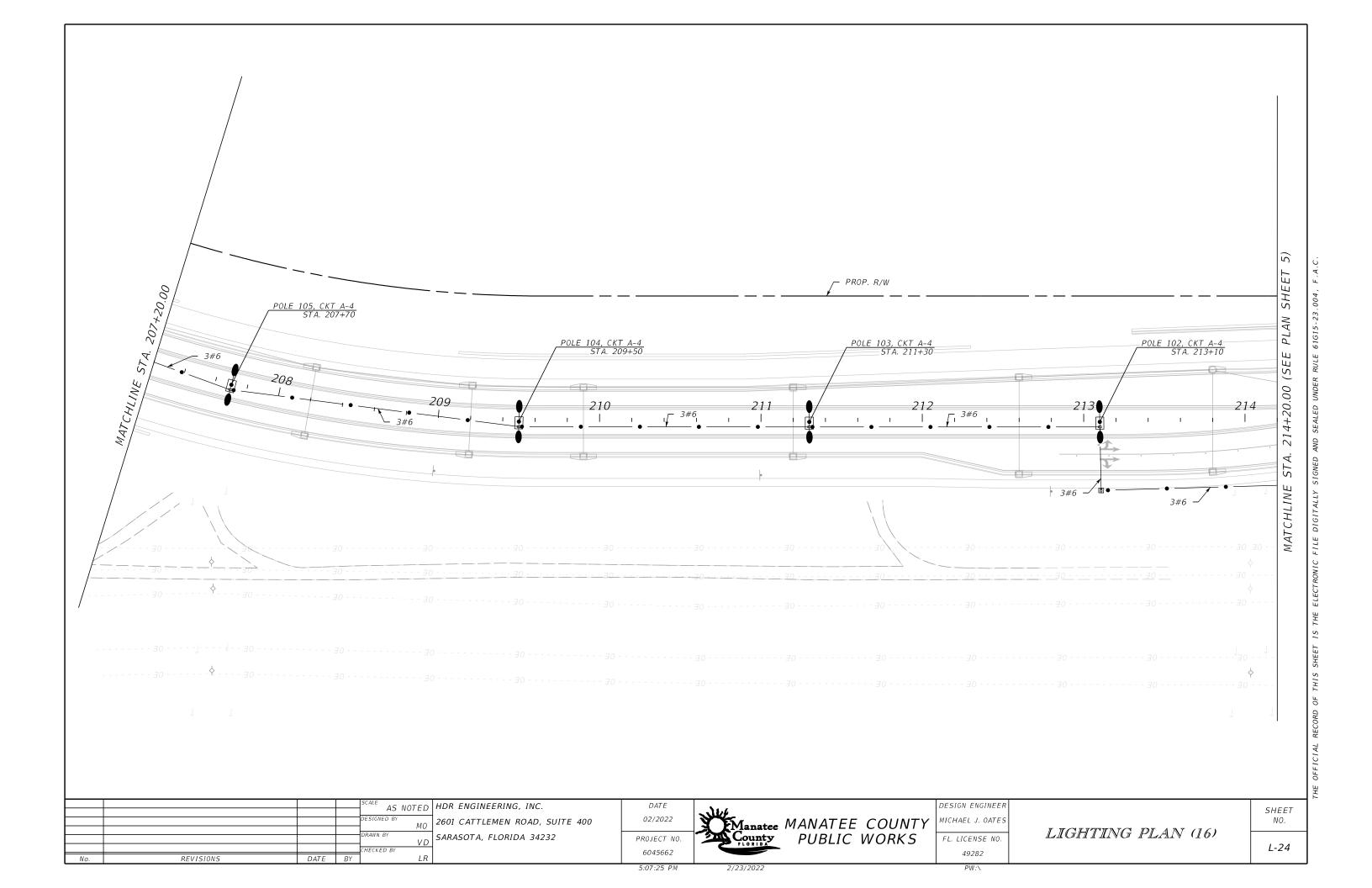


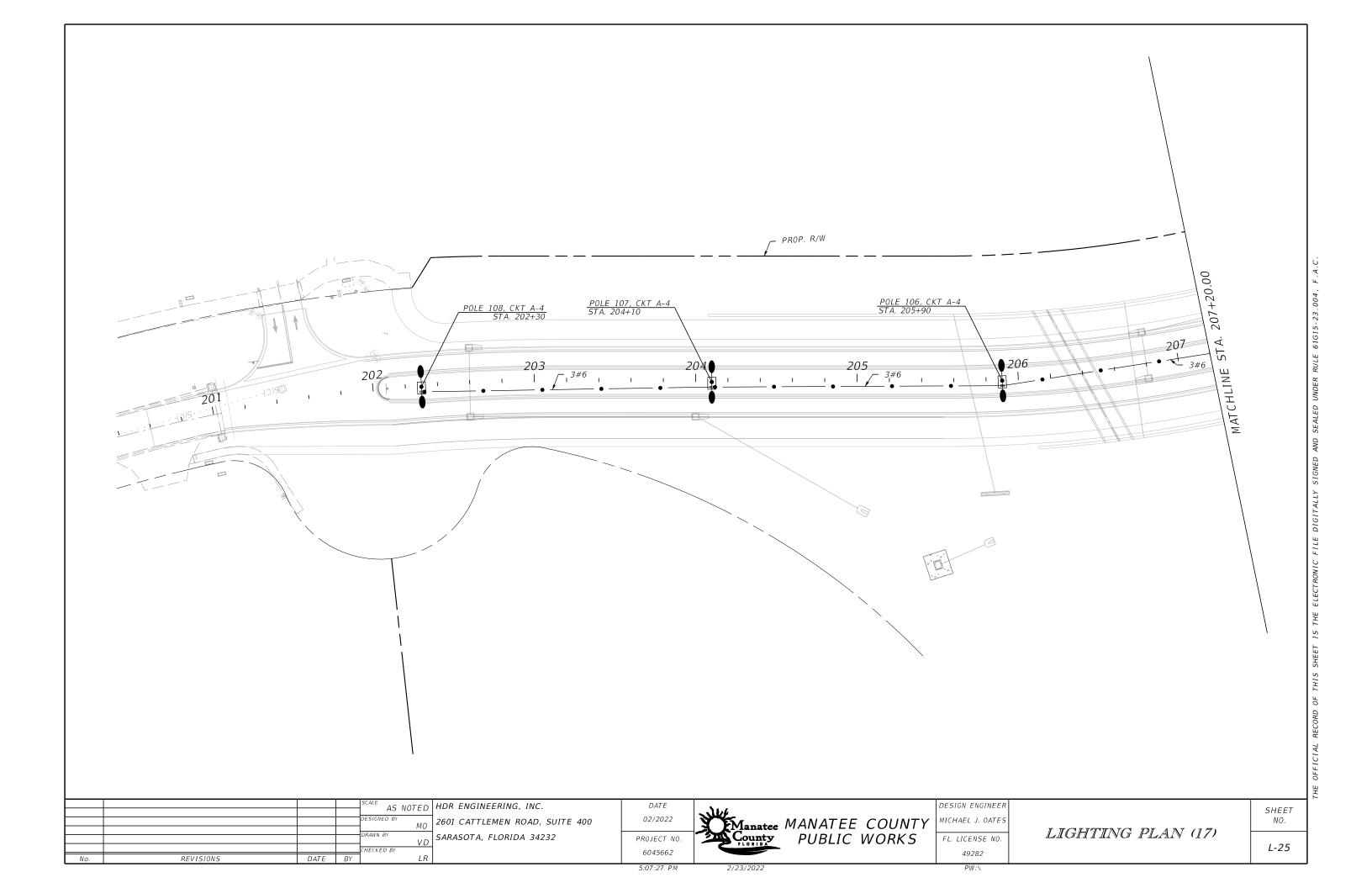












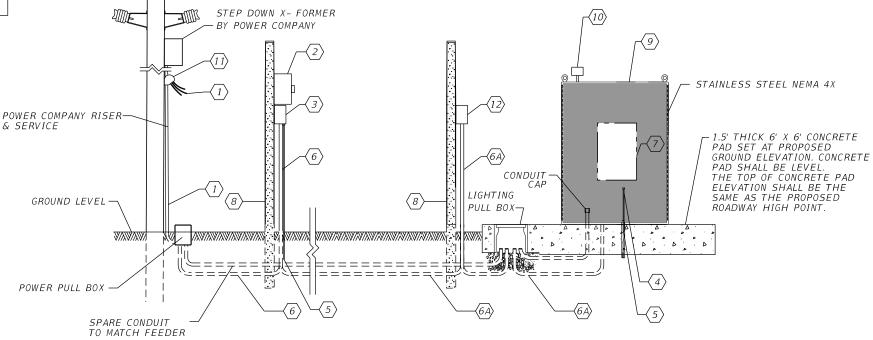
	DI	STRIBUTION	SCHEDULE		
DISTRIBUTION POINT	UNDERGROUND SERVICE FEEDER	CONTROL PANEL MAIN CKT. BKR.	LTG. CONTACTOR	SERVICE MAIN	
LIGHTING PANEL "A"	THREE # 2 AWG IN 2" CONDUIT	100 A FRAME 100 A TRIP	CKT A-1: 30 A, 2-POLE CKT A-2: 30 A, 2-POLE CKT A-3: 30 A, 2-POLE CKT A-4: 30 A, 2-POLE CKT A-5: (SPARE) CKT A-6: SPACE	100 A	100 A
DISTRIBUTION POINT	UNDERGROUND SERVICE FEEDER	CONTROL PANEL MAIN CKT. BKR.	BRANCH CIRCUIT BREAKER	LTG. CONTACTOR	SERVICE MAIN
LIGHTING PANEL "B" THREE # 2 AWG IN 2" CONDUIT		100 A FRAME 100 A TRIP	CKT A-1 30 A, 2-POLE CKT A-2 30 A, 2-POLE CKT A-3 30 A, 2-POLE CKT A-4 30 A, 2-POLE CKT A-5 (SPARE) CKT A-6 SPACE	100 A	100 A

LIGHTING CONTROL PANEL SCHEMATIC DETAILS FOR DISTRIBUTION POINT 'A'

KEY NOTES:

- 240/480V SINGLE PHASE 3-WIRE POWER COMPANY UNDERGROUND SERVICE FEEDER, BY POWER COMPANY.
- 2 METER SOCKET BY CONTRACTOR. METER BY POWER COMPANY.
- SERVICE MAIN 480 VOLT, MINIMUM 25,000 AIC, 2 POLE, SOLID NEUTRAL NEMA 4X ENCLOSED CIRCUIT BREAKER RATED FOR SERVICE ENTRANCE. BOND NEUTRAL
- #2 INSULATED COPPER GROUND WIRE IN 3/4 " RIGID GALVANIZED STEEL CONDUIT. BOND THE SERVICE NEUTRAL TO GROUND
- 5 TWO TEN FOOT COPPER CLAD GROUND ROD 5/8 " DIA.
- UNDERGROUND FEEDER SIZE IN RIGID GALVANIZED STEEL CONDUIT. SEE MAIN SERVICE PANEL DETAILS.
- LIGHTING CONTROL PANEL FEEDER 3 #2 AWG AND 1 #6 AWG (GND.) IN 2" CONDUIT

- PANEL BOARD "A", 480V, SINGLE PHASE, 3-WIRE WITH GROUND BUS IN NEMA 1 ENCLOSURE, WITH 2-POLE, 25,000 AIC BRANCH CIRCUIT BREAKERS, NUMBER AND RATING OF BRANCH CIRCUIT BREAKERS SHALL BE AS INDICATED ON DISTRIBUTION SCHEDULE.
- TYPE P-II CONCRETE POLE, 12 FEET HIGH TO SUPPORT ELECTRICAL
- LIGHTING CONTROL PANEL NEMA 4X ENCLOSURE. DIMENSIONS AS NECESSARY FOR EQUIPMENT INSIDE. ALL WIRING BETWEEN ENCLOSURES SHALL BE IN RIGID GALVANIZED STEEL CONDUIT (RGSC).
- (10) PHOTO ELECTRIC SWITCH, 120 V RATED, SHOWN OUTSIDE FOR CLARITY
- (11) WEATHERHEAD BY POWER COMPANY.
- $\langle 12 \rangle$ NON-FUSED SAFETY SWITCH, 100A, 2P, 600V.



GENERAL NOTE:

ALL ELECTRICAL EQUIPMENT INCLUDING SERVICE, MAIN CIRCUIT BREAKER, LIGHTING CONTROL PANEL LOAD CENTER, POWER TRANSFORMER, LIGHTING CONTACTOR SHALL BE PROVIDED WITH 75° C TERMINAL LUG CONNECTORS

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DR ENGINEERING. INC. 601 CATTLEMEN ROAD, SUITE 400 ARASOTA, FLORIDA 34232

DATE 02/2022 PROJECT NO.

6045662



Manatee MANATEE COUNTY
County PUBLIC WORKS **PUBLIC WORKS**

DESIGN ENGINEER MICHAEL J. OATES

FL. LICENSE NO. 49282

SERVICE CENTER DETAILS

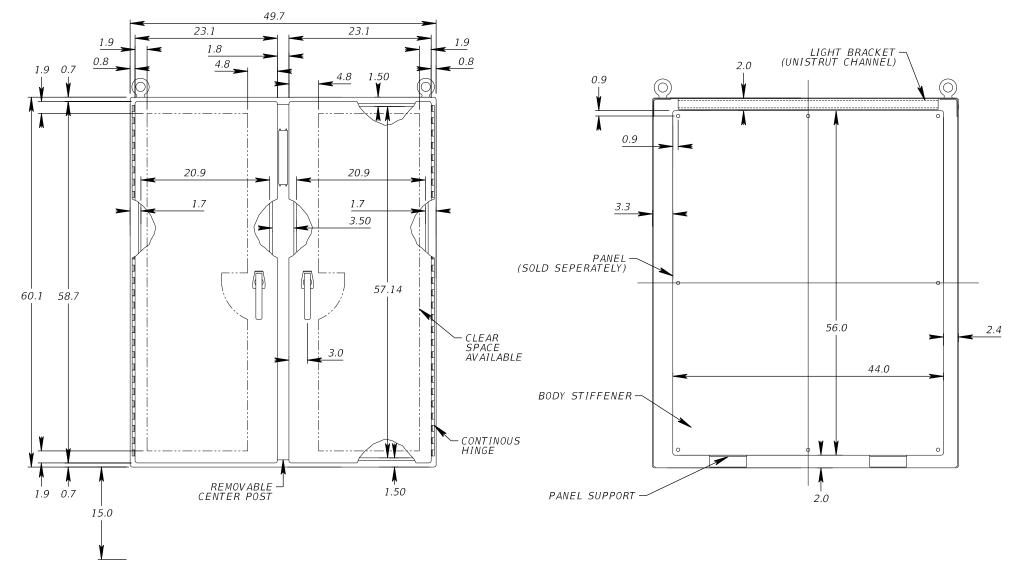
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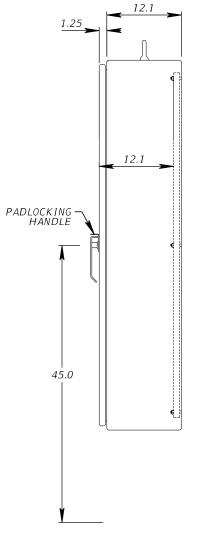
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CONSTRUCTION NOTES:

- 10 GAUGE STAINLESS STEEL OR ALUMINUM BODIES AND DOORS.
 CONTINUOUS WELDED SEAMS GROUND SMOOTH.
 HEAVY GAUGE CONTINUOUS HINGES TO SECURE DOORS.
 HEAVY DUTY 3-POINT PADLOCKING HANDLES ON ALL DOORS.
 PRINT POCKET AND PANEL SUPPORTS.
 15-INCH FLOOR STANDS WELDED TO ENCLOSURE.
 DOORS WITH CLOSED CELL NEOPRENE GASKET.
 HEAVY DUTY LIFTING EYES AND PROVISIONS FOR FLUORESCENT LIGHTING.
 GROUNDING PROVISIONS
- GROUNDING PROVISIONS.
- 10. KEY AND LOCKS. PROVIDE FOUR (4) KEYS TO THE MANATEE COUNTY TRAFFIC OPERATIONS DIVISION.
 11. ANSI 61 GRAY POLYESTER POWDER INSIDE AND OUT OVER PHOSPHATIZED SURFACES.





FRONT VIEW

SECTION Y-Y

SIDE VIEW

ALL UNITS ARE MEASURED IN INCHES.

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LOAD CENTER ENCLOSURE DETAILS SHEET NO. L-27

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