## CENTRAL FLORIDA EXPRESSWAY AUTHORITY

# CONTRACT PLANS

SR 429 (WEKIVA PARKWAY)

EAST OF SR 429/SR 46 SYSTEM INTERCHANGE TO EAST OF MOUNT PLYMOUTH ROAD (CR 435)

> ORANGE COUNTY (75) CONTRACT NO. 429-205



#### INDEX OF LIGHTING PLANS

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L-15	LED SIGN LIGHTING DETAILS

# LIGHTING PLANS

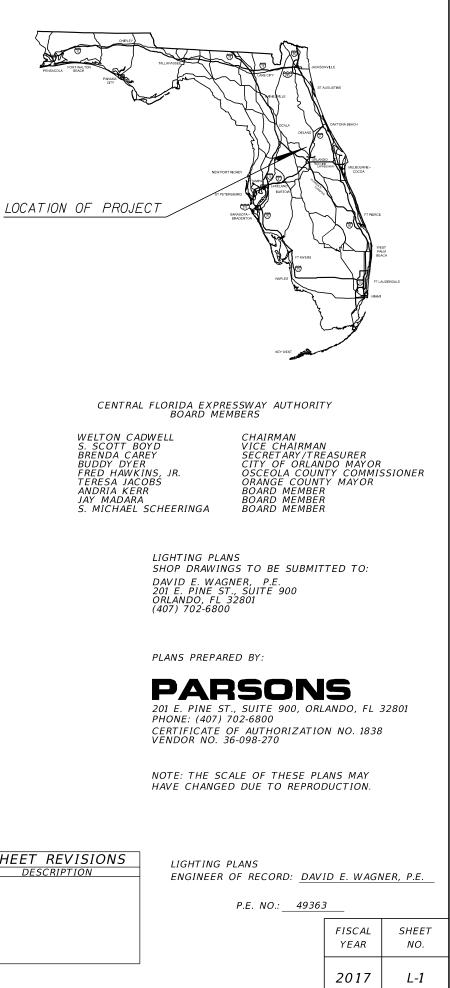


KEY	SHEET	REVISION
DATE	DES	CRIPTION

BID SET FEBRUARY 2016

CFX PROJECT MANAGER: GLENN M. PRESSIMONE, P.E.

p0089258 1/11/2016



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	TABULATION OF QUANTITIES																			
PAY	DECONDITION	UNIT	SHEET NUMBERS																	
ITEM NO.	DESCRIPTION		L	-9	L·	-10	L·	-11												
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	2330		1015															
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	14		6														<u> </u>	
715-1-11 715-1-12 715-1-60	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR < LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8 - 6 LIGHTING CONDUCTORS, REMOVE AND DISPOSE	LF LF LF	270 1185		240 4485 6343		9699													
715-4-600	LIGHT POLE COMPLETE, REMOVE	EA			8		11												<u> </u>	+
715-7-11 715-7-41	LOAD CENTER, F&I, SECONDARY VOLTAGE LOAD CENTER, REMOVE, SECONDARY VOLTAGE	EA EA	1		1 1															
715-11-126	LUMINAIRE, F&I, UNDER DECK, PENDANT HUNG	EA	4		4														<u> </u>	
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1. ITEM 630-2-11: INCLUDE CONDUIT, ELBOWS, SWEEPS, CONNECTING HARDWARE, TRENCHING AND BACKFILL AS INDICATED IN THE PLANS AND DESIGN STANDARDS. CONDUIT SHALL ALSO INCLUDE RESTORING CUT PAVEMENT, SIDEWALK, SOD, ETC. TO ITS ORIGINAL CONDITION.

2. ITEMS 715-1-11 AND 715-1-12: INCLUDE CONDUCTORS AS INDICATED IN THE PLANS AND THE DESIGN STANDARDS. PAYMENT SHALL BE MADE BASED ON LINEAR FEET OF SINGLE CONDUCTOR.

3. ITEM 715-1-60: INCLUDES REMOVAL OF CONDUIT ASSOCIATED WITH THE REMOVAL OF THE CONDUCTORS.

4. ITEM 715-4-600: INCLUDES REMOVAL OF POLE FOUNDATION. THE LIGHT POLES AND LUMINAIRES SHALL BE DELIVERED TO THE FDOT DISTRICT FIVE ORLANDO MAINTENANCE YARD AT 420 WEST LANDSTREET ROAD ORLANDO, FL 32824 AND UNLOADED IN AN AREA DESIGNATED BY A REPRESENTATIVE OF THE MAINTENANCE FACILITY. CALL (407) 858-5900 A MINIMUM OF 48 HOURS PRIOR TO DELIVERY AND FOR VERIFICATION OF DELIVERY LOCATION. THE MAINTENANCE FACILITY REPRESENTATIVE MAY DIRECT THAT THE POLES BE DELIVERED TO THE DELAND MAINTENANCE YARD INSTEAD. THE EXISTING POLES TO BE REMOVED WERE INSTALLED AS PART OF THE WEKIVA 4A/4B FDOT DISTRICT 5 PROJECT. THIS ITEM ALSO INCLUDES REMOVAL OF PULL BOXES ASSOCIATED WITH REMOVAL OF THE LIGHT POLES AND CONDUIT RUNS TO BE REMOVED.

#### PAY ITEM FOOTNOTES

5. ITEM 715-7-11: INCLUDES NEMA 3R SAFETY SWITCH ON LINE SIDE OF METER, BASE MOUNTED ENCLOSURES, 480-120V CONTROL POWER TRANSFORMER, FUSES, LIGHTNING PROTECTOR ON THE OUTSIDE OF ENCLOSURE, CONDUIT AND FEEDER CONDUCTORS FROM THE POWER COMPANY POINT OF SERVICE TO THE LOAD CENTER, PULL BOX AND ALL MISCELLANEOUS HARDWARE FOR A COMPLETE INSTALLATION AS PER PLANS AND STANDARD INDEX 17504 DETAIL "A". INCLUDES FURNISHING AND INSTALLING TYPE N-11 CONCRETE POLE AND ALL FEES FOR INSPECTION OF CONNECTION OF THE ELECTRICAL SERVICE SHALL BE INCIDENTAL TO THIS PAY ITEM.

6. ITEM 715-11-126: SHALL INCLUDE ALL ITEMS NECESSARY FOR A COMPLETE INSTALLATION, INCLUDING LUMINAIRE WITH LAMP, ALL NECESSARY MOUNTING HARDWARE, AND EMBEDDED JUNCTION BOXES, AS SHOWN ON THE UNDERDECK DETAIL SHEETS.

		REVISIONS		DAVID E. WAGNER, P.E.	CENTRA	CENTRAL FLORIDA		
DAT	E DESCRIPTION	DATE		AY AUTHORITY				
				PARSONS	ROAD NO.	PROJECT NO.	- TABUL	
				201 E PINE STREET, SUITE 900, ORLANDO, FL 32801 PHONE, (407) 702-6800 / FAX, (407) 702-6950	SR 429	429-205		
				CERTIFICATE OF AUTHORIZATION NO. 1838	SK 429	429-205		
							2/3/2016 2.24.14	

		TO THI SHE	5	GRA TOT		REF. SHEET
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		19		19		
		2 1		2 1		
		8		8		

ATION OF QUANTITIES

SHEET NO.

L-2

1. THE CONTRACTOR SHALL PROVIDE A SPARE CONDUIT AT ALL ROADWAY PAVEMENT CROSSINGS AND CAP BOTH ENDS.

2. PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL EQUIPMENT SPECIFICATION OR DESIGN DATA FOR ALL MATERIAL PROPOSED FOR THE PROJECT. THESE MUST SPECIFICALLY INCLUDE:

A) LUMINAIRE PHOTOMETRICS B) LOAD CENTER EQUIPMENT

SEVEN (7) COPIES OF SHOP DRAWINGS AND DESIGN DATA FOR HIGHWAY LIGHTING EQUIPMENT SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AND A COPY OF THE TRANSMITTAL LETTER SHALL BE RECEIVED BY THE RESIDENT ENGINEER IN CHARGE OF THE PROJECT. ALLOW A TWO WEEK TURN-AROUND FOR SHOP DRAWING REVIEWS.

- 3. 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). THESE LOCATIONS ARE SHOWN AS NOTICE TO THE CONTRACTOR THAT UNDERGROUND UTILITIES EXIST. THE CONTRACTOR SHALL STAKE ALL POLE LOCATIONS AND NOTIFY UTILITY OWNER(S) FOR LOCATION AND STAKING OF UNDERGROUND FACILITIES BEFORE EXCAVATING.
- 4. STATE OF FLORIDA STATUTE 556 (2013) REQUIRES THAT BEFORE EXCAVATING, NOTICE BE GIVEN TO THE SUNSHINE STATE ONE-CALL OF FLORIDA, INC. (SSOCOF) A MINIMUM OF TWO (2) FULL BUSINESS DAYS (DEFINED IN STATUTE) AT 1-800-432-4770. NOT ALL UTILITY COMPANIES ARE MEMBERS OF SSOCOF. PROVIDE ALL UTILITY OWNERS A MINIMUM OF TWO (2) FULL BUSINESS DAYS PRIOR TO EXCAVATION. SEE ROADWAY PLANS FOR UTILITY OWNER'S PHONE NUMBERS.
- 5. THE LOCATIONS OF THE CONDUCTORS, CONDUITS, JUNCTION BOXES AND SERVICE POLES ARE APPROXIMATE AND MAY BE SHIFTED BY THE ENGINEER TO ACCOMMODATE LOCAL CONDITIONS AND EXISTING UTILITY LOCATIONS.
- 6. ALL ELECTRICAL WORK SHALL MEET ALL REQUIREMENTS OF THE LATEST ADOPTED EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC), THE NATIONAL ELECTRICAL SAFETY CODE (N.E.S.C.) AND THE STATE OF FLORIDA D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL COMPONENTS SHALL BE PROPERLY GROUNDED AND BONDED PER N.E.C. REQUIREMENTS.
- 7. INSTALL LIGHTNING ARRESTERS, PROPERLY GROUNDED, IN POWER (SECONDARY) ENTRANCES, ON THE OUTSIDE OF THE ENCLOSURE.
- 8. IN ACCORDANCE WITH N.E.C., IDENTIFY ALL CIRCUITS AND EQUIPMENT WITH "LAMACOID TAGS".
- 9. THE CONTRACTOR SHALL NOTIFY DUKE ENERGY AT LEAST 48 HOURS PRIOR TO ANY INSTALLATION THAT IS WITHIN TEN (10) FEET OF ENERGIZED ELECTRICAL CONDUCTORS. DUKE ENERGY, AT IT'S OPTION, SHALL ASSIST THE CONTRACTOR, PROVIDE PROTECTION FOR ENERGIZED CONDUCTORS AT INSTALLATION SITE, OR TAKE OTHER SAFETY PRECAUTIONS AS NECESSARY. EXTREME CAUTION SHALL BE EXERCISED AT ALL TIMES IN PERFORMANCE OF WORK AROUND THE PRIMARY HIGH VOLTAGE COMPONENTS.
- 10. PULLING INSTRUCTIONS: CONNECT PULLING DEVICES TO COPPER WIRE AND NOT TO JACKET. 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. PULL CABLE SHALL BE POLYESTER OR NYLON ROPE. STEEL CABLE OR FISH TAPE SHALL NOT BE USED.
- 11. SIGN ILLUMINATION SHALL BE SIMILAR OR EQUAL TO PHILIPS HADCO LEDGINE LED SIGN LIGHT. MODEL C10735 (A OR B) (79 OR 104 WATTS / 480 VOLTS) OR AUTHORITY APPROVED EQUAL. THE C10735 IS A SPECIAL ORDER PRODUCT BASED ON THE HADCO FX SERIES WITH MODIFIED OPTICS. PRODUCT CONTAINS 48 OR 96 LEDS AND SHALL CONFORM TO IES C10735A OR C10735B. SIGN LUMINAIRES SHALL BE PROVIDED WITH DRIVER OR SURGE PROTECTION LOCATED REMOTELY IN REMOTE LED DRIVER BOX. SIGN LUMINAIRES SHALL BE GREY OR SILVER IN COLOR. ILLUMINATION FOR EACH SIGN SHALL BE BETWEEN 15 AND 20 FOOTCANDLES AVERAGE INITIAL WITH A MAXIMUM-TO-MINIMUM UNIFORMITY RATIO OF 6:1 OR LESS. TOP MOUNTED LUMINAIRES SHALL NOT BE ALLOWED ON OVERHEAD SIGN STRUCTURES ALONG ANY PORTION OF THE MAINLINE OR ON RAMPS WITHIN THE CFX JURISDICTION WITHOUT PRIOR AUTHORITY APPROVAL. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL A COMPUTER PRINTOUT FOR EACH SIGN INDICATING THAT THE SELECTED LUMINAIRE MEETS OR EXCEEDS THE ABOVE CRITERIA. THE NUMBER OF LUMINAIRES INDICATED ON INDEX 17505 IS SUPERSEDED BY THE NUMBER OF LUMINAIRES INDICATED IN THE SCHEDULE OF LIGHTED SIGNS.

- 12. EACH SIGN LUMINAIRE SHALL BE PROVIDED WITH A LABEL ON THE OUTSIDE IDENTIFYING THE VOLTAGE OF THE BALLAST AND SHALL BE INCIDENTAL TO THE PAY ITEMS LOCATED IN THE SIGNING AND PAVEMENT MARKING PLAN FOR THIS PROJECT.
- 13. ALL METAL PULL BOX COVERS SHALL BE MARKED "STREET LIGHTING" AND SHALL BE PROVIDED WITH A GROUND LUG.
- 14. THE SIGN LIGHTING LUMINAIRES SHALL BE "NIGHT AIMED" TO ASSURE PROPER ILLUMINATION OF THE SIGN SURFACE. THE LUMINAIRES MUST BE AT AN ANGLE SUFFICIENT TO PREVENT THEM FROM SHINING INTO THE FACES OF DRIVERS WHO ARE TRAVELING IN THE OPPOSITE DIRECTION AND SHALL BE INCIDENTAL TO THE PAY ITEMS LOCATED IN THE SIGNING AND PAVEMENT MARKING PLAN FOR THIS PROJECT.
- 15. THE CONTRACTOR SHALL REFERENCE STRUCTURAL PLANS AND COORDINATE WITH THE STRUCTURAL CONTRACTOR REGARDING LOCATIONS OF EMBEDDED CONDUIT AND PULL BOXES WITHIN THE BRIDGE STRUCTURES AND TO VERIFY LOCATIONS OF TIE-INS.
- 16. ALL CONDUITS UNDER ROADWAY (AND/OR SIDEWALK) SHALL BE INSTALLED PRIOR TO INSTALLATION OF ROADWAY BASE AND SURFACE (OR CONCRETE) EXCEPT WHERE OTHERWISE SPECIFIED IN THE PLANS.
- 17. AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE WITHIN 2 FEET OF THE CONDUIT RUN, AS DETERMINED BY THE ENGINEER, THE CONTRACTOR WILL HAND DIG OR VACUUM EXCAVATE THE FIRST 4 FEET OF THE HOLE FOR THE CONDUIT RUN.

18. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SIDE STREETS AT ALL TIMES DURING CONSTRUCTION.

- 19. CONDUIT LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. CONDUIT MUST BE PLACED WITHIN THE RIGHT-OF-WAY, BUT CAN BE ADJUSTED TO FIT AROUND THE EXISTING AND PROPOSED UTILITIES. WHERE THE PLANNED LOCATION OF LIGHTING CONDUITS WHICH RUNS 36" UNDER THE PAVEMENT, IS FOUND TO CONFLICT WITH UNDERGROUND UTILITIES, THE LIGHTING CONDUIT POSITION SHALL BE ALTERED VERTICALLY OR HORIZONTALLY TO AVOID THE CONFLICT AS RECOMMENDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. A 24" ABSOLUTE MINIMUM DEPTH SHALL BE MAINTAINED WHERE LIGHTING CONDUITS ARE RELOCATED CLOSER THAN 36" BELOW THE GROUND SURFACE AND SHALL BE PLACED IN AN ADDITIONAL 3" PVC SLEEVE OR BACKFILLED WITH A MIN. OF 4" x 4" OF CONCRETE. SUCH TREATMENT WILL BE INCIDENTAL TO THE PAY ITEMS PROVIDED. THE CONTRACTOR IS TO TAKE EXTRA CARE AND HAND DIG THE CONDUIT AT THE UTILITY CONFLICT.
- 20. CONTRACTOR SHALL PREPARE ACCURATELY DIMENSIONED "AS BUILT" PLANS OF FINAL CABLE, LOAD CENTER, PULL BOX, AND CONDUIT LOCATIONS. PLANS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO FINAL ACCEPTANCE. AFTER THE "AS BUILT" PLANS ARE APPROVED, THE CONTRACTOR SHALL SUBMIT TWO COPIES TO THE RESIDENT ENGINEER AND ONE COPY TO THE CFX MAINTENANCE. SUCH PREPARATION SHALL BE INCIDENTAL TO PAY ITEMS PROVIDED.
- 21. ALL SPLICES AND CONNECTIONS SHALL BE MADE IN PULL BOXES ONLY WITH COMPRESSION SLEEVES OR SPLIT BOLT CONNECTIONS. SPLICES AND CONNECTIONS MADE IN PULL BOXES SHALL BE LIMITED TO THE SERVICE POINT AND CONDUIT JUNCTION WITH MULTI-DIRECTIONAL CONDUITS AS INDICATED IN THE PLANS. ALL CONNECTIONS MADE AT THESE POINTS SHOULD BE PROPERLY TAPED AND HEAT SHRINK TUBES OR CAPS SHALL BE USED TO WATERPROOF THESE CONNECTIONS.
- 22. ALL CONDUITS SHALL BE CLEANED AND MANDREL TESTED. CONDUIT PLACED FOR FUTURE USE SHALL HAVE A POLYESTER CORD PULLED IN PLACE AND CAPPED, WITH NOTATION INSIDE CONDUIT AS TO LOCATION OF OPPOSITE END. PLACE DUCT MARKER OR PULL BOXES TO MARK THE ENDS OF EMPTY CONDUITS WHICH SHALL BE INCLUDED IN THE CONDUIT PAY ITEMS.
- 23. LIGHTING CONTRACTOR SHALL COORDINATE WITH STRUCTURAL CONTRACTOR TO COORDINATE LOCATIONS OF EMBEDDED CONDUIT AND PULL BOXES WITHIN THE WALLS AND BRIDGES.
- 24. AT ALL LOCATIONS WHERE PROPOSED LIGHTING CONDUIT CROSSES PERPENDICULAR TO PROPOSED OR EXISTING WALL FOOTINGS, CONTRACTOR SHALL MAINTAIN A 1 FOOT CLEARANCE FROM BOTTOM OF FOOTING TO TOP OF CONDUIT.
- 25. ALL SIGN LUMINAIRES INSTALLED ON NEW SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE LIGHTED SIGNS IN THE SIGNING AND PAVEMENT MARKING PLANS COMPONENT SET. ALL ITEMS NECESSARY FOR A COMPLETE INSTALLATION INCLUDING REMOTE DRIVER BOX AND INSTALLATION. REMOTE DRIVER BOX SHALL INCLUDE LED DRIVER FOR EACH SIGN LIGHT FIXTURE, MAIN DISCONNECT. MAIN BREAKER, POWER DISTRIBUTION BLOCK, LED DRIVER SURGE PROTECTION FOR EACH DRIVER, TVSS, WIRING AND CONDUIT FROM EACH LIGHT FIXTURE TO DRIVER BOX AND SHALL BE CONSIDERED INCIDENTAL TO LIGHTED SIGNS.

		REVISIONS		DAVID E. WAGNER, P.E.	CENTRA		
DATE	DESCRIPTION	DATE	DESCRIPTION	P.E. LICENSE NO. 49363 PARSONS	EXPRESSWA		
				201 E PINE STREET, SUITE 900, ORLANDO, FL 32801	ROAD NO.	PROJECT NO.	-
				PHONE. (407) 702-6800 / FAX. (407) 702-6950 CERTIFICATE OF AUTHORIZATION NO. 1838	SR 429	429-205	

SHEFT NO.

GENERAL NOTES

L-3

### SIGN LUMINAIRE DATA

\* HORIZONTAL LUMINAIRE POSITIONS, MEASURED FROM LEFT EDGE OF PANEL 2.67', 8', 13.33'

SIGN NO.	CIRCUIT	STATION	NO. SIGN MOUNTED LUMINAIRES	NO. OF LEDS	ARM LENGTH	TILT	NOTES	SIDE	FINAL
104/0C-1	E-2	1489+65.22 53.06' LT	3	48	6	60	LUMINAIRES SPACED	LT	
							PER INDEX 17505 *		

### UNDERDECK LUMINAIRE DATA

LUM NO.	CIRCUIT	STATION, OFFSET	NO. OF LEDS	MOUNTING HEIGHT *	MOUNTING	PAY ITEM
JD - 101	W – 1	434+56 38.5' LT @ SR 429	80	17.0	PENDANT HUNG	715-11-126
JD - 102	W – 1	435+20 38.5' LT @ SR 429	80	17.0	PENDANT HUNG	715-11-126
JD - 103	W – 1	434+59 38.5' RT @ SR 429	80	17.0	PENDANT HUNG	715-11-126
JD - 104	W – 1	435+23 38.5' RT @ SR 429	80	17.0	PENDANT HUNG	715-11-126
JD - 201	E-1	1493+44 19.0' LT & SB SR 429	80	18.5	PENDANT HUNG	715-11-126
JD – 202	E-1	1494+08 19.0' LT & SB SR 429	80	18.5	PENDANT HUNG	715-11-126
JD – 203	E-1	493+34 43.0' RT B NB SR 429	80	17.5	PENDANT HUNG	715-11-126
JD - 204	E-1	493+98 43.0' RT & NB SR 429	80	16.5	PENDANT HUNG	715-11-126

## UNDERDECK LIGHTING DESIGN CRITERIA

Average Initial I Uniformity Ratio Veiling Luminanc Wind Speed	Avg./Min. Max./Min.	1.5 Foot Candles 4:1 Or Less 10:1 Or Less 0.3:1 Or Less 130 MPH	s Average Uniforn
			LEGEND
SYMBOLS		Ľ	DESCRIPT
$\bigtriangleup$	(Standard) Dri Beta LED cata	underdeck luminaire, T ve Current, 480 volt o log no. TSP-EDG-4M-PD o. XA-BRDSPK) or Auth	peration (curve 2-08-D-UH-SV-3
$\sim$	Light pole furr	nished and installed un	der Project 42
$C \times ( )$	Existing light	pole to be removed.	
(});0;(()	Existing light	pole to be removed.	
— • —	inside (conduct (TW green inst	VC conduit, 2" (unless tor size as shown on p Jlation) inside conduit 3 are furnished and in:	olan sheets).  R with other con
e e		VC conduit Embedded s sizes as shown in br	
ø	Existing Under	ground Conduit (with (	Conductors). S
øø	Existing Under	pavement Conduit (wit	h Conductors)
		specifications see Sec wn on sheets L-5 throu	
	Existing Pull b	ox. See plan sheet fo	or disposition.
	Distribution po	int. For requirements	see Index No.
	Existing Distri	bution point. See plan	sheet for dis
		dge pull box integral t nd installed under brid	

REVISIONS									
DATE		DESCRIPTION	DATE	DESCRIPTION					



CENTRAL EXPRESSWAY		
ROAD NO.	PROJECT NO.	
SR 429	429-205	

## SIGN LIGHTING DESIGN CRITERIA

age Initial Intensity 15 – 20 Foot Candles rmity Ratio Max./Min. 6:1 Or Less

PTION

lium distribution, 80 LEDs, 4000K color temperature, 350mA rve no. TSP-EDG-4M-\_\_-08-D-UH-350-40K-CONFIGURED.IES). /-350-40K with Leveler (part no. XA-PNDTLVL and Bird ved equal.

429-204.

herwise on the plan sheet), with THWN-2 conductors Run one (1) #6 AWG minimum copper bond conductor onductors. Conduit (with Conductors) shown on sheets Project 429-204.

Bridge Rail and deck slab installed under bridge ighting contractor to run conductors as specified

See plan sheet for disposition.

s) to remain.

Standard Specifications For Road And Bridge Construction. furnished and installed under Project 429-204.

No. 17504 of Design Standards.

lisposition.

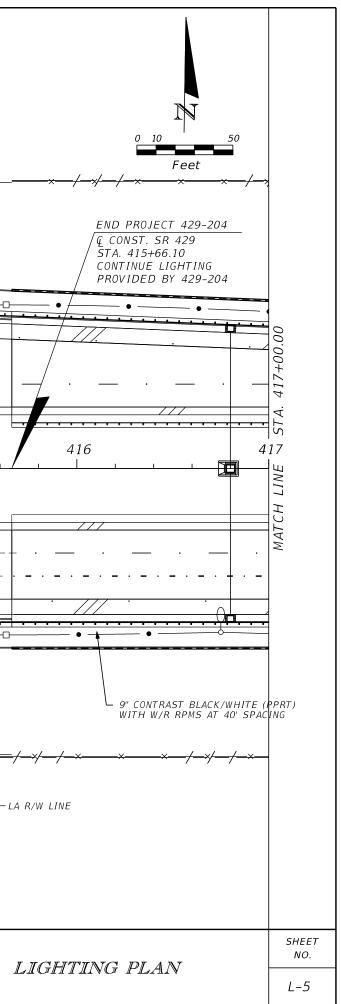
(8" x 8" minimum). Box size to be increased when required

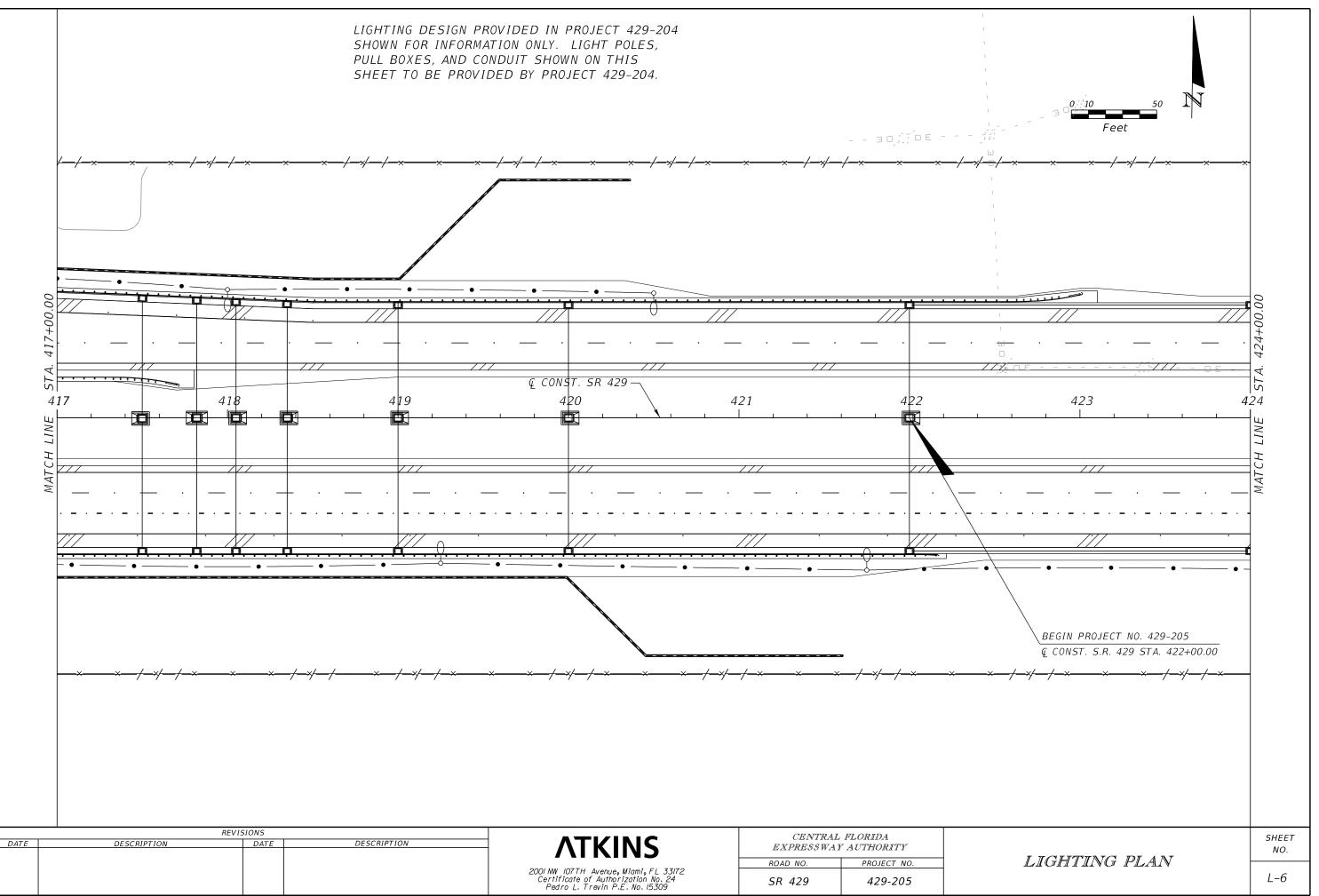
LUMINAIRE DATA AND LEGEND

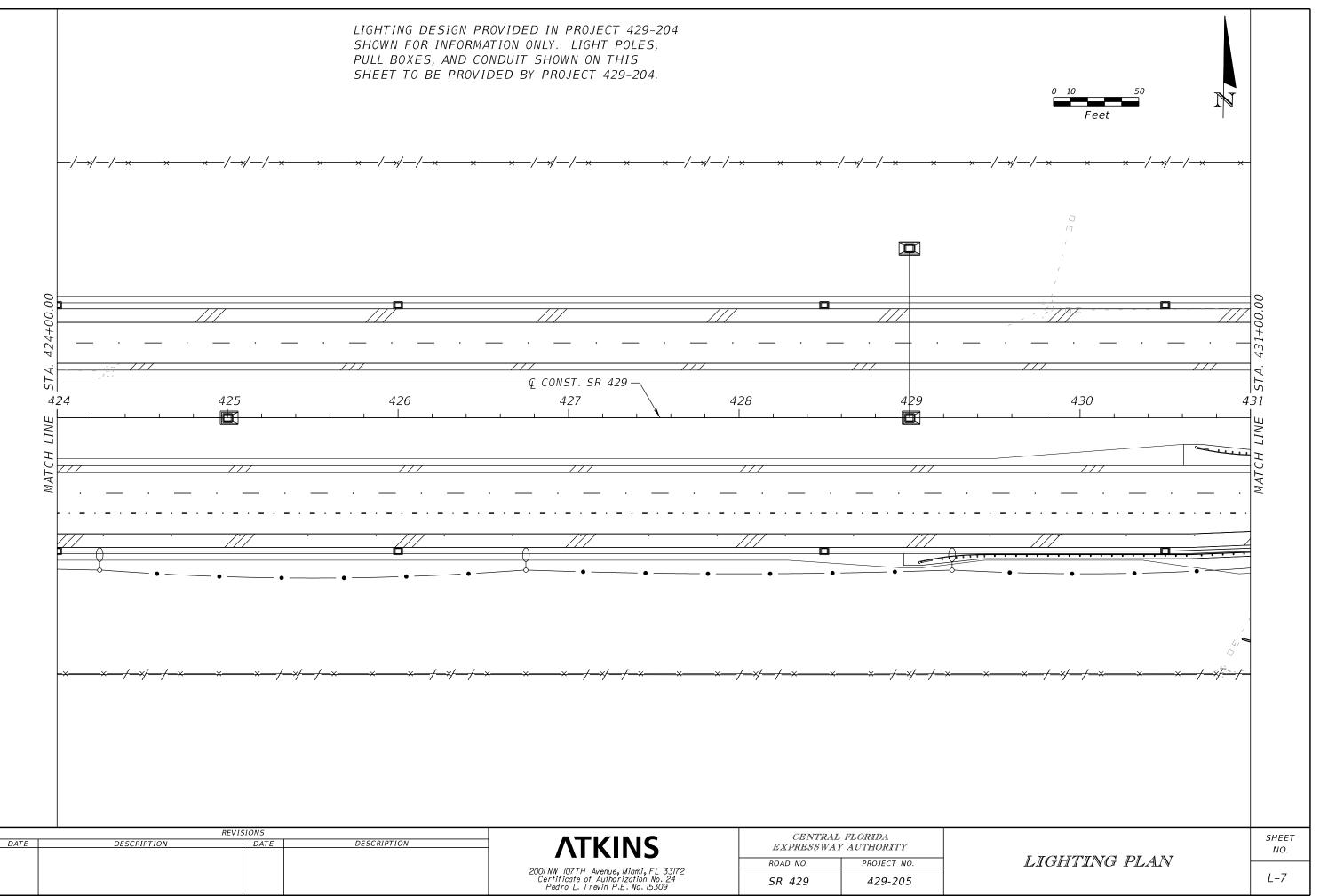
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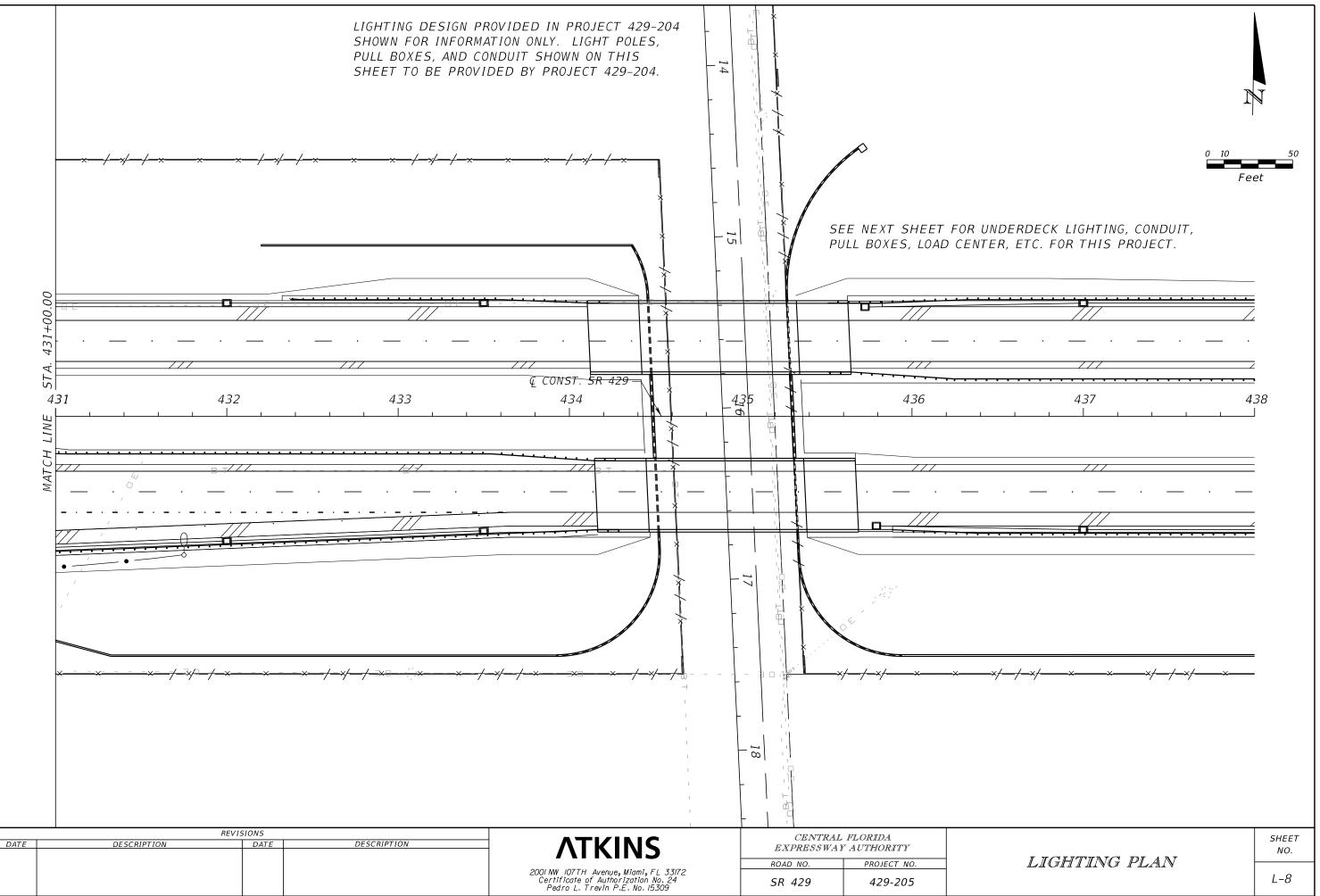
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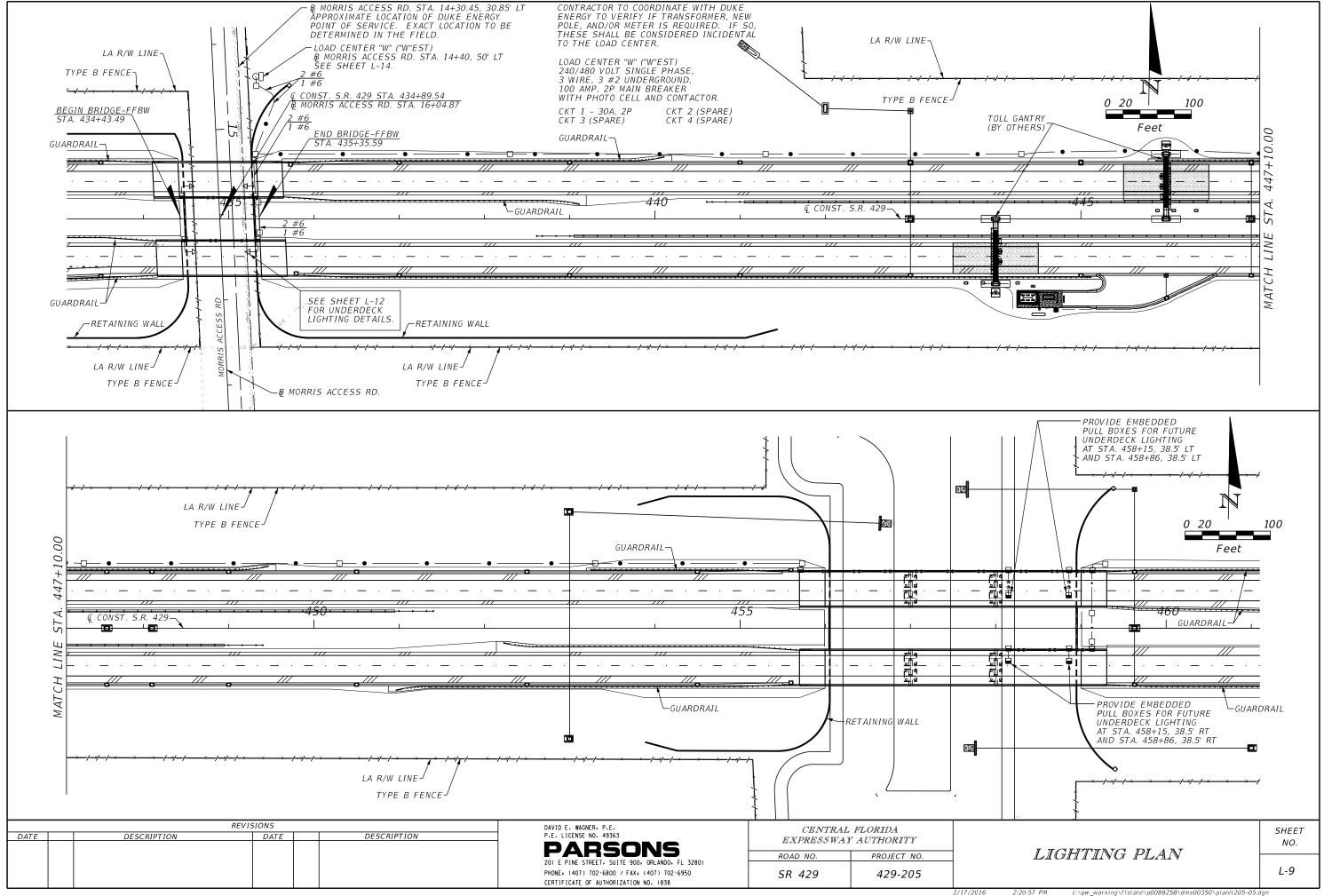
			SHOWN FOR INFORM PULL BOXES, AND C	ROVIDED IN PROJECT 429-204 ATION ONLY. LIGHT POLES, ONDUIT SHOWN ON THIS IDED BY PROJECT 429-204.			
x		××	LA R/	W LINE	xxx	xxx-	×
			RETAINING WALL	L/A R/W			
					<u></u>	<u></u>	····
	-E	<u>_</u>					
410	411		412	¢ CONST. SR 429 413	414	415	
	- 9" CONTRAST BLACK/WH WITH W/R RPMS AT 40'	IITE (PPRT) SPACING					
	REVISIONS				CF NTP 41	, FLORIDA	×
DESCRIP			DESCRIPTION	ATKINS	EXPRESSWA ROAD NO.	Y AUTHORITY PROJECT NO.	
				2001 NW 107TH Avenue, Miami, FL 33172 Certificate of Authorization No. 24 Pedro L. Trevin P.E. No. 15309	SR 429	429-205	

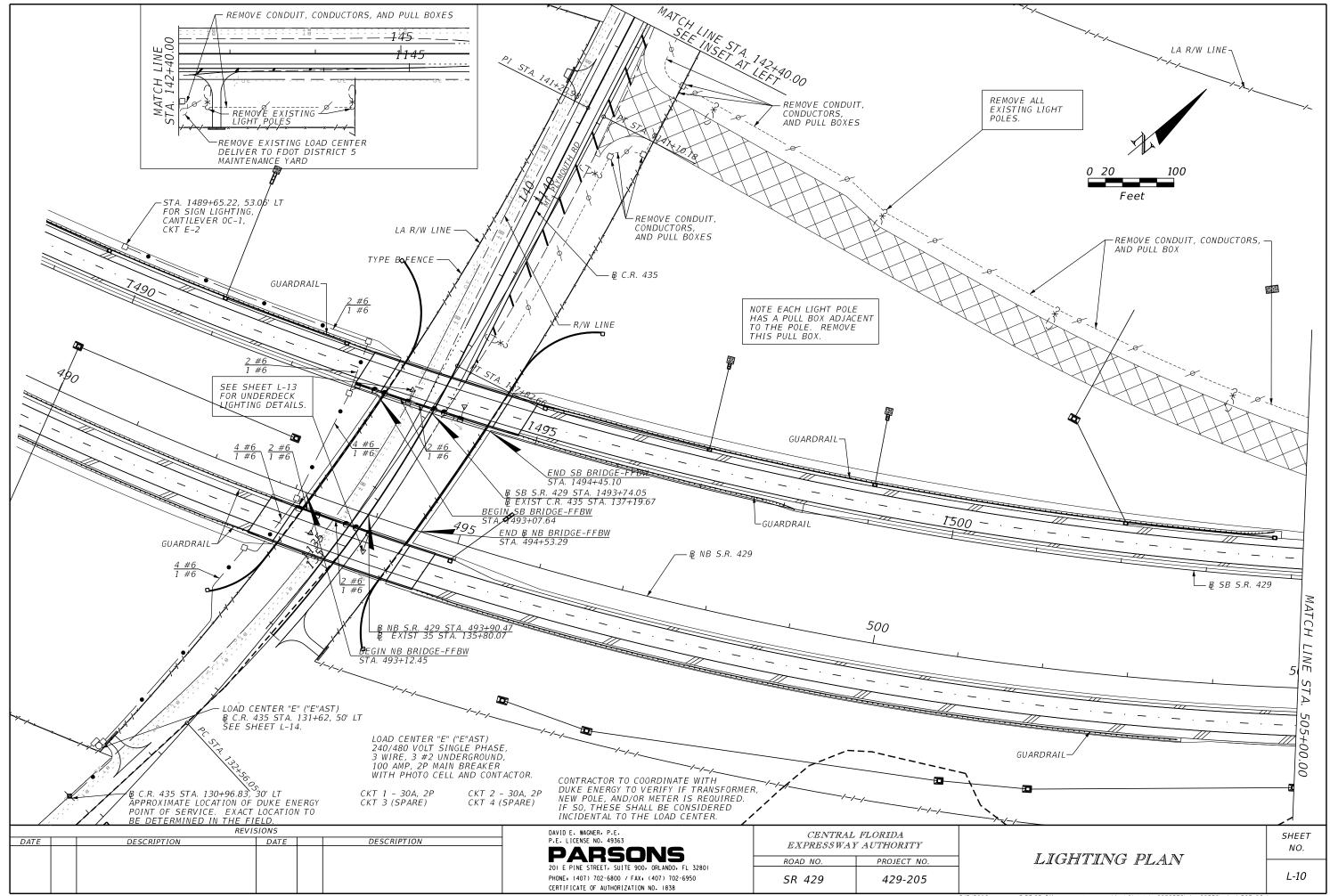






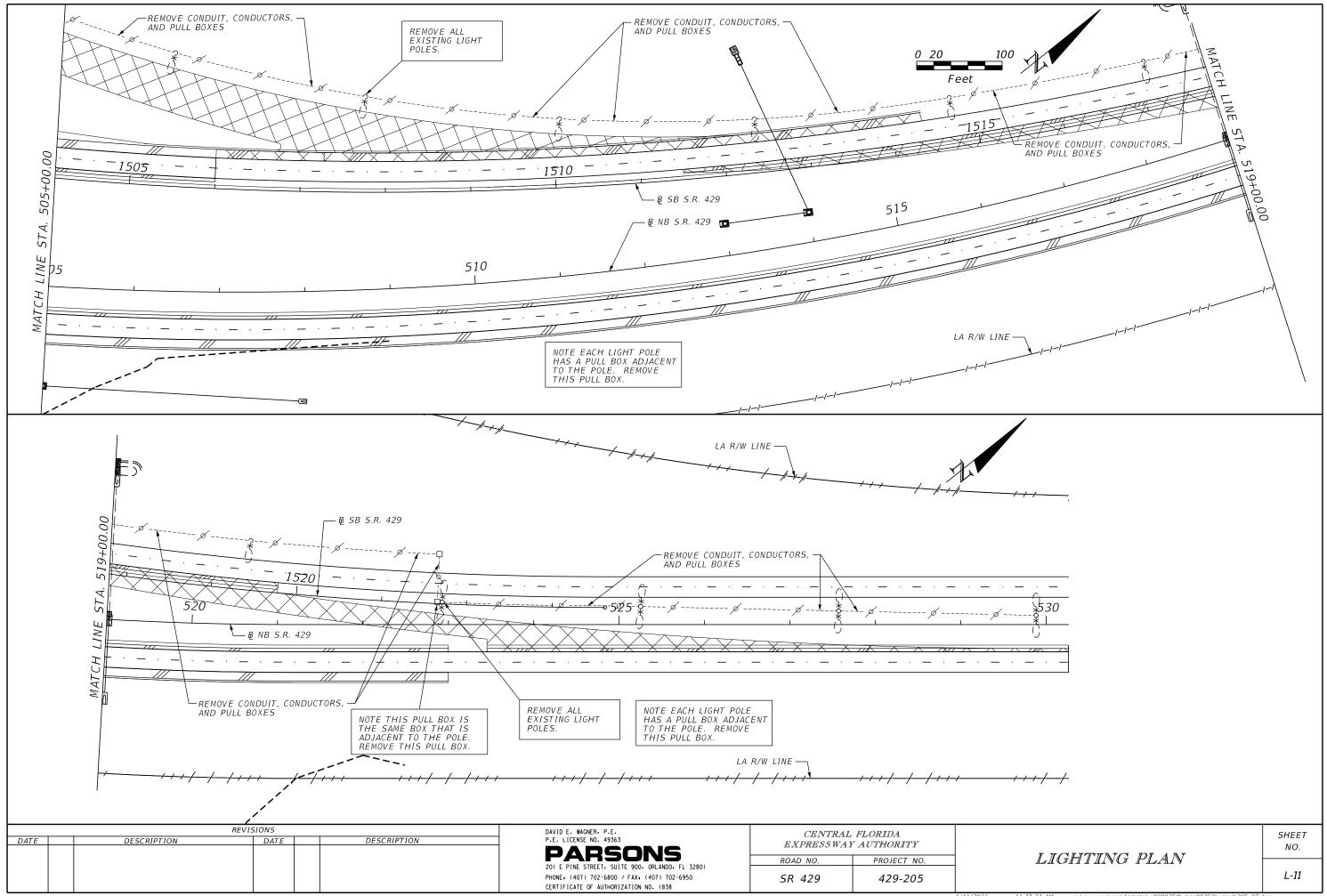


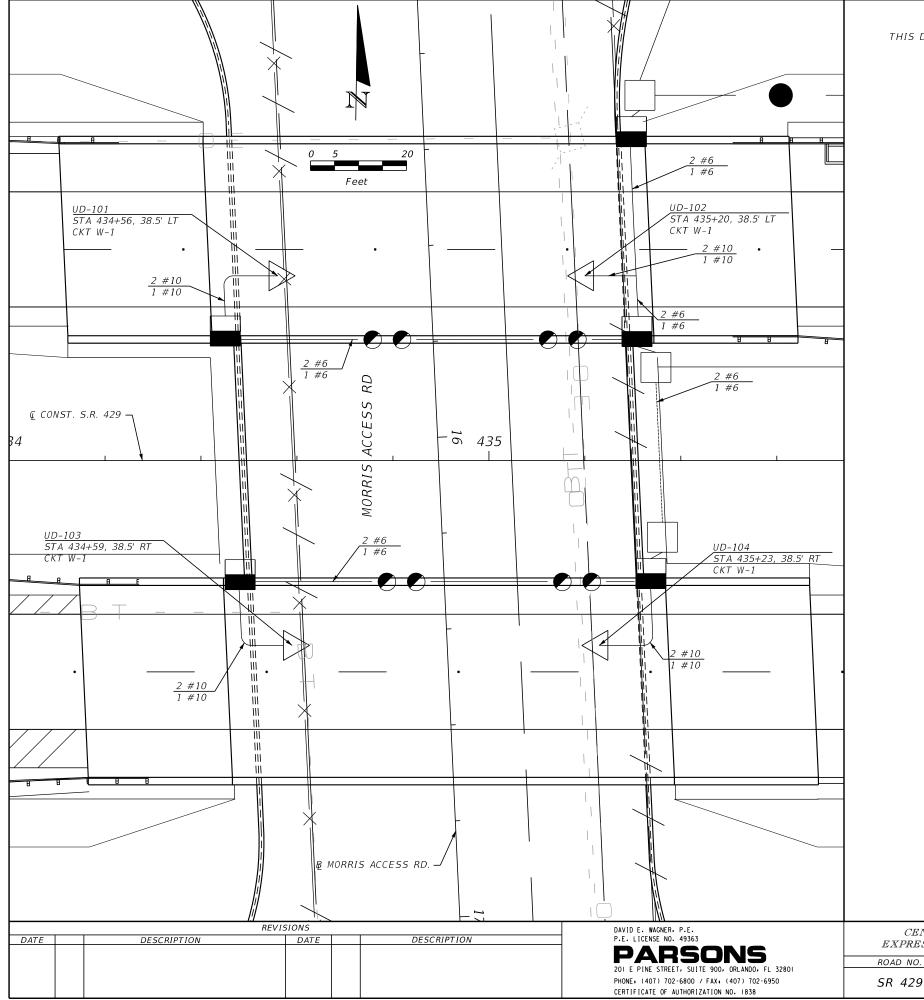




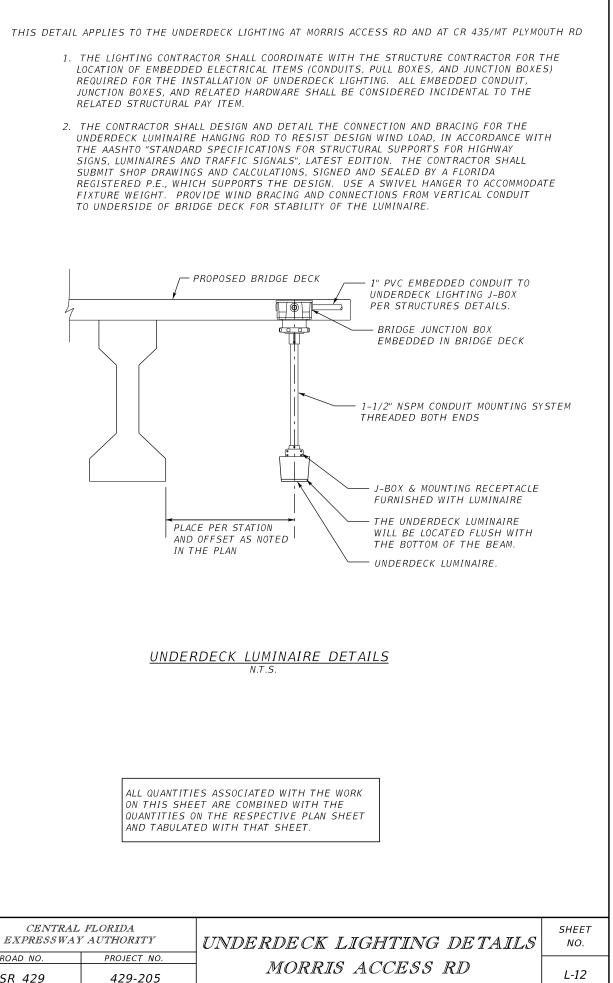
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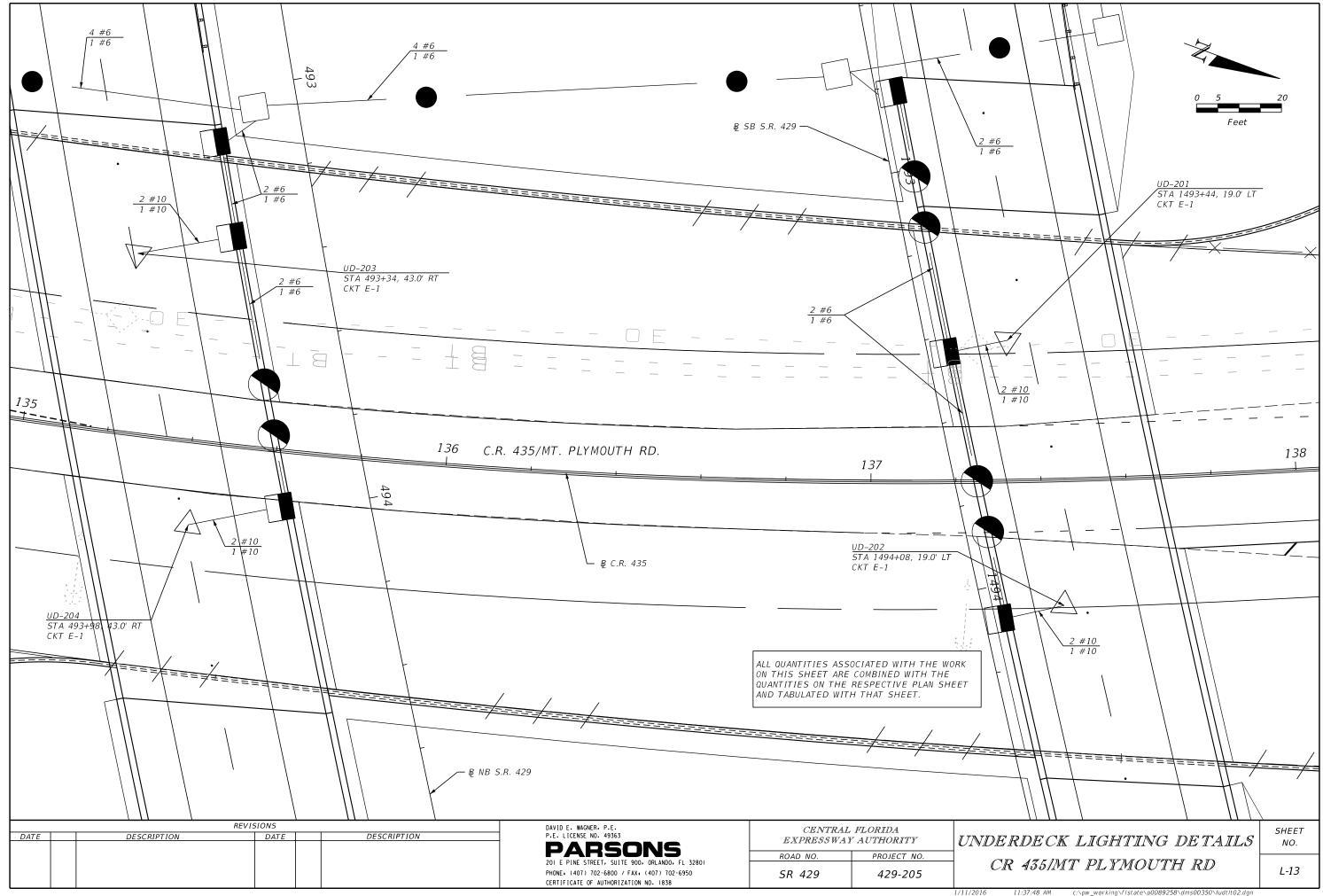


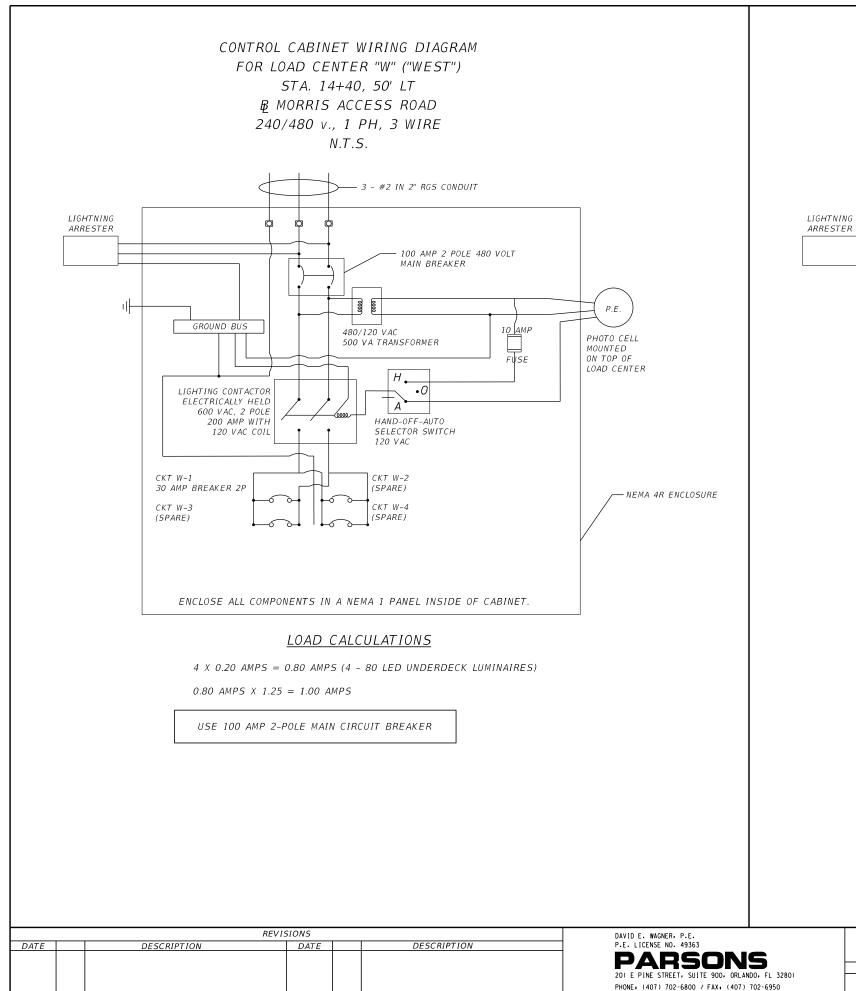
- RELATED STRUCTURAL PAY ITEM.



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CENTRAL FLORIDA EXPRESSWAY AUTHORITY PROJECT NO. ROAD NO. SR 429 429-205

CERTIFICATE OF AUTHORIZATION NO. 1838

TOTAL = 1.40 AMPS

1.40 AMPS X 1.25 = 1.75 AMPS

GROUND BUS

LIGHTING CONTACTOR

ELECTRICALLY HELD

CKT E-1

СКТ Е-З

(SPARE)

30 AMP BREAKER 2P

600 VAC, 2 POLE

200 AMP WITH

120 VAC COIL

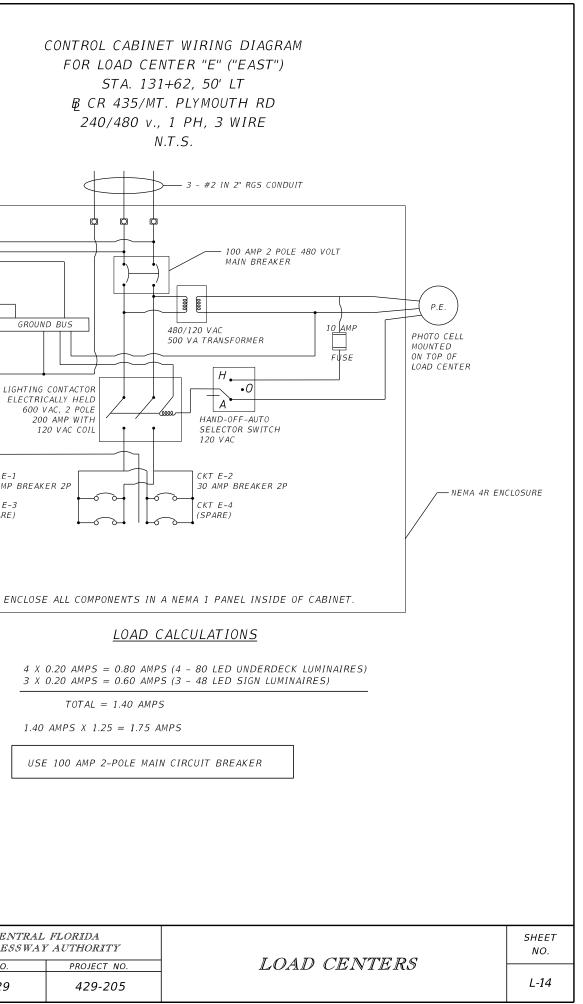
N.T.S.

480/120 VAC

Α

CKT E-4

(SPARE)



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