

*LEE COUNTY PUBLIC WORKS
DEPARTMENT OF TRANSPORTATION*

CORKSCREW ROAD WIDENING - PHASE 2

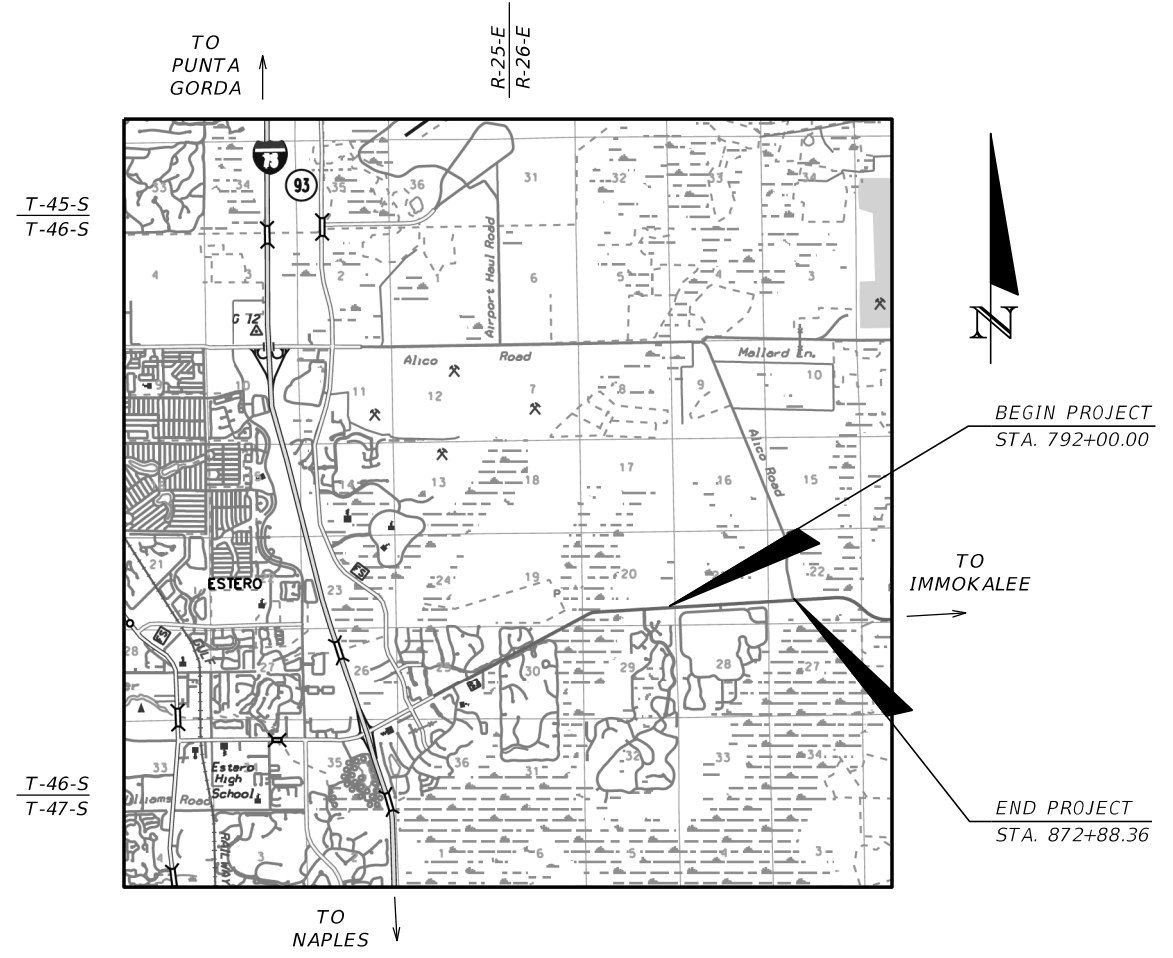
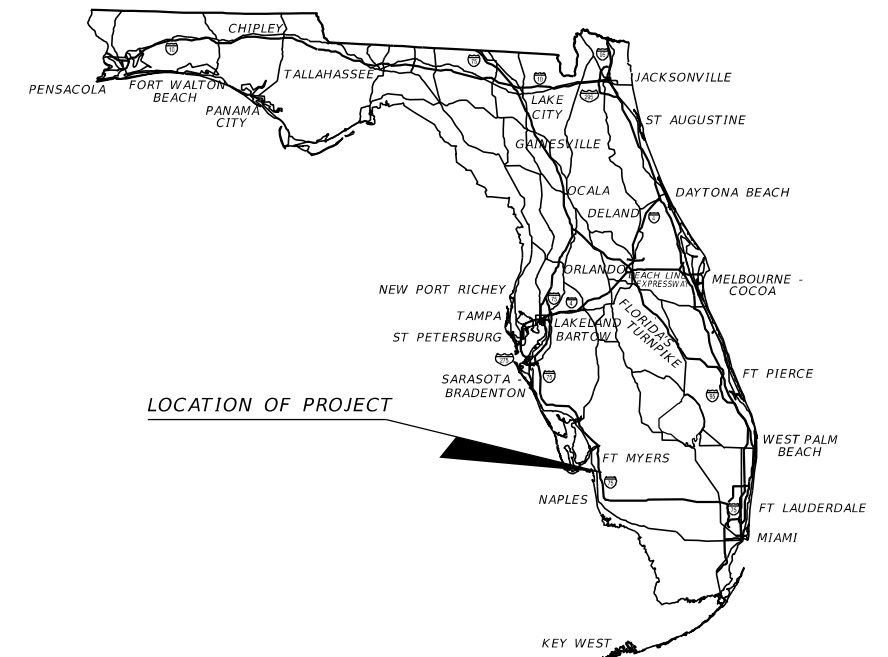
BELLA TERRA BOULEVARD TO ALICO ROAD

LEE COUNTY

LIGHTING PLANS

INDEX OF LIGHTING PLANS

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GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2019-20 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

Standard Plans for Bridge Construction are included in the Structures Plans Component

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, July 2019 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>



**LIGHTING PLANS
ENGINEER OF RECORD:**

LEAH M. HOLMES, P.E.
P.E. NO.: 85359
JOHNSON ENGINEERING, INC.
2122 JOHNSON STREET
FORT MYERS, FLORIDA 33901
CERTIFICATE OF AUTHORIZATION NO.: 642

LEE COUNTY PROJECT MANAGER:
THOMAS MARQUARDT, P.E.

**90% SUBMITTAL
FEBRUARY 2020**

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
	20	L-1

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

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THE SIGNATURE MUST BE VERIFIED
IN THE ELECTRONIC DOCUMENTS

JOHNSON ENGINEERING
2122 JOHNSON STREET
FORT MYERS, FLORIDA 33901
CERTIFICATE OF AUTHORIZATION: 00642
LEAH M. HOLMES, P.E. NO. 85359

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

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
L-1	KEY SHEET
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JOHNSON ENGINEERING
2122 JOHNSON STREET
FORT MYERS, FLORIDA 33901
CERTIFICATE OF AUTHORIZATION: 00642
WAYNE W. WRIGHT, P.E. NO. 58220

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<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
L-2	SIGNATURE SHEET
L-9	SERVICE POINT DETAILS

REVISIONS				 LEAH M. HOLMES • P.E. LICENSE NO. 85359 JOHNSON ENGINEERING, INC. 2122 JOHNSON STREET • FORT MYERS, FL 33901 CERTIFICATE OF AUTHORIZATION NO. 642	LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION			SIGNATURE SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	JEI PROJECT ID		L-2
					C.R. 850	LEE	20192030-000		

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			L-11		L-12		L-13		L-14		L-15		L-16		L-17		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			422		1253		1400		1412		1267		1003		6756		14130	
630-2-11A	CONDUIT, FURNISH & INSTALL, INTERCONNECT	LF	28		701		700		700		711		700		700		4239		8101	
630-2-11U	CONDUIT, FURNISH & INSTALL, INTERCONNECT	LF					597		700		705		700		701		3402		6900	
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF					167				114		154				435		709	
633-1-123	FIBER OPTIC CABLE, F&I, UNDERGROUND, 49-96 FIBERS	LF			851		850		1000		1311		1150		1000		6161		11823	
633-1-123U	FIBER OPTIC CABLE, F&I, UNDERGROUND, 49-96 FIBERS	LF					747		1000		1155		1000		1001		4902		9750	
633-8-1	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL	LF																	3000	
635-2-11A	PULL & SPLICE BOX, F&I, 17" X 30" COVER SIZE	EA					4				5		2				11		23	
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA			1		1		2		4		3		2		13		25	
635-2-12U	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA					1		2		3		2		2		10		19	
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS											1				1		2	
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF											34				34		53	
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-11 SERVICE POLE	EA											1				1		4	
660-3-12	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA																	2	
676-2-111	ITS CABINET, FURNISH & INSTALL, POLE MOUNT, 336, 24" W X 36" H X 20" D	EA																	2	
715-1-11	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR < (#10 AWG STRANDED TRACER/LOCATE WIRE) INTERCONNECT	LF					597		700		705		700		701		3402		6900	
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8-6 (NO. 6)	LF			1290		4380		4248		4697		4340		3073		22028		45413	
715-1-40	LIGHTING CONDUCTORS, RELOCATE EXIST. CONDUCTOR	LF					50						50				100		100	
715-4-14	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE STANDARD FOUNDATION, 45' MOUNTING HEIGHT	EA			3		7		6		5		6		8		35		66	
715-4-60	LIGHT POLE COMPLETE, RELOCATE	EA					1						1				2		2	
715-7-12	LOAD CENTER, F&I, PRIMARY VOLTAGE	EA											1				1		2	
715-500-1	POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL	EA			3		7		6		5		6		8		35		66	

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REVISIONS																										
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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			L-18		L-19		L-20		L-21		L-22		L-23		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	1272		1400		1423		1493		1243		543				7374	14130		
630-2-11A	CONDUIT, FURNISH & INSTALL, INTERCONNECT	LF	712		700		701		730		701		319				3862	8101		
630-2-11U	CONDUIT, FURNISH & INSTALL, INTERCONNECT	LF	705		700		701		700		691						3497	6900		
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF					102				173						274	709		
633-1-123	FIBER OPTIC CABLE, F&I, UNDERGROUND, 49-96 FIBERS	LF	1312		1000		851		1030		1001		469				5662	11823		
633-1-123U	FIBER OPTIC CABLE, F&I, UNDERGROUND, 49-96 FIBERS	LF	1005		1000		851		1000		991						4847	9750		
633-8-1	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL	LF							1500				1500				3000	3000		
635-2-11A	PULL & SPLICE BOX, F&I, 17" X 30" COVER SIZE	EA					5		3		4						12	23		
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	4		2		1		2		2		1				12	25		
635-2-12U	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	2		2		1		2		2						9	19		
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS					1										1	2		
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF					19										19	53		
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA					1		1				1				3	4		
660-3-12	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA							1				1				2	2		
676-2-111	ITS CABINET, FURNISH & INSTALL, POLE MOUNT, 336, 24" W X 36" H X 20" D	EA							1				1				2	2		
715-1-11	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR < (#10 AWG STRANDED TRACER/LOCATE WIRE) INTERCONNECT	LF	705		700		701		700		691						3497	6900		
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8-6 (NO. 6)	LF	3856		4248		4694		4575		4360		1652				23385	45413		
715-1-40	LIGHTING CONDUCTORS, RELOCATE EXIST. CONDUCTOR	LF																100		
715-4-14	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE STANDARD FOUNDATION, 45' MOUNTING HEIGHT	EA	5		6		5		6		6		3				31	66		
715-4-60	LIGHT POLE COMPLETE, RELOCATE	EA																2		
715-7-12	LOAD CENTER, F&I, PRIMARY VOLTAGE	EA					1										1	2		
715-500-1	POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL	EA	5		6		5		6		6		3				31	66		
#REF!	#REF!	#REF!																		

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LIGHTING GENERAL NOTES:

1. 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. POLE STRENGTH CALCULATIONS AND POLE SHOP DRAWINGS FOR PAY ITEM NO. 715-4-14
 - C. POLE FRANGIBILITY TEST
 - D. ANCHOR BOLT DESIGN CALCULATIONS AND SHOP DRAWINGS
 - E. DISTRIBUTION POINT ELECTRICAL EQUIPMENT
2. 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. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY OWNER(S) FOR LOCATION AND STAKING OF UNDERGROUND FACILITIES BEFORE EXCAVATING.
3. STATE OF FLORIDA STATUTE 556 (2008) 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 AT 1-800-432-4770. NOT ALL UTILITY COMPANIES ARE MEMBERS OF SSOCOF.
4. THE LOCATION OF THE POLES, CONDUCTORS, CONDUITS, JUNCTION BOXES AND SERVICE POLES ARE DIAGRAMMATIC ONLY AND MAY BE SHIFTED BY THE ENGINEER TO ACCOMMODATE LOCAL CONDITIONS AND EXISTING UTILITY LOCATIONS.
5. ALUMINUM POLES, LUMINAIRES AND BASES SHALL BE FABRICATED IN ACCORDANCE WITH AASHTO'S "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" AND SHALL HAVE BEEN TESTED BY FHWA APPROVED METHODS (LATEST EDITION). CERTIFICATION FOR TESTS SHALL BE SUBMITTED WITH THE SHOP DRAWINGS.
6. SHOP DRAWING SUBMITTAL DATA SHALL INCLUDE COMPUTER PRINTOUT SHOWING HORIZONTAL FOOT CANDLE LEVELS TO BE OBTAINED USING SUBMITTED LUMINAIRES ON THIS PROJECT. AT FINAL INSPECTION THE CONTRACTOR SHALL VERIFY THE HORIZONTAL FOOT CANDLE LEVELS ON THE ROADWAY WITH AN APPROVED CURRENTLY CALIBRATED LIGHT METER AND SUBMIT REPORT FOR APPROVAL.
7. ALL ELECTRICAL WORK SHALL MEET ALL REQUIREMENTS OF THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC), THE NATIONAL ELECTRICAL SAFETY CODE (NESC) AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL COMPONENTS SHALL BE PROPERLY GROUNDED AND BONDED PER N.E.C. REQUIREMENTS.
8. INSTALL LIGHTNING ARRESTORS, PROPERLY GROUNDED, IN POWER (SECONDARY) ENTRANCES ON OUTSIDE OF ENCLOSURE.
9. IN ACCORDANCE WITH N.E.C., IDENTIFY ALL CIRCUITS AND EQUIPMENT WITH "LAMACOID TAGS". INSTALL SIMILAR TAGS OF STAINLESS STEEL IDENTIFYING CIRCUIT FOR EACH LUMINAIRE AT ACCESS HANDHOLE FOR EACH POLE.
10. THE CONTRACTOR SHALL NOTIFY FPL AT LEAST 48 HOURS PRIOR TO ANY INSTALLATION THAT IS WITHIN 20 FEET OF ENERGIZED ELECTRICAL CONDUCTORS. EXTREME CAUTION SHALL BE EXERCISED AT ALL TIMES IN PERFORMANCE OF WORK AROUND THE PRIMARY HIGH VOLTAGE COMPONENTS.
11. PULLING INSTRUCTIONS: CONNECT PULLING DEVICES TO COPPER WIRE AND NOT TO THE JACKET AND MEET THE MANUFACTURER'S REQUIREMENTS. USE PULLING COMPOUND PER MANUFACTURER'S REQUIREMENTS. ALL BENDS SHALL NOT BE LESS THAN RECOMMENDED BY THE NEC OR NECS FOR THE CABLE USED.
12. CONTRACTOR SHALL FURNISH AND INSTALL AN ALUMINUM IDENTIFICATION TAG ON EACH ROADWAY LIGHTING STANDARD. TAGS SHALL BE 2 INCHES X 8 INCHES IN SIZE WITH WHITE LETTERS ON BLUE BACKGROUND, ATTACHED WITH RIVETS (NO SCREWS). NUMBERS SHALL BE PER THE POLE IDENTIFICATION TAG DETAIL. COST OF TAGS SHALL BE INCLUDED IN THE BID ITEMS FOR LIGHT POLE COMPLETE. BOTTOM OF TAG SHALL BE INSTALLED 5 FEET ABOVE FINISHED GRADE. COORDINATE THE POLE NUMBER WITH LEE COUNTY MAINTENANCE.
13. THE CONTRACTOR SHALL STAKE ALL POLE LOCATIONS AND REQUEST UTILITY COMPANIES TO LOCATE AND STAKE UNDERGROUND UTILITIES PRIOR TO EXCAVATING.
14. ALL CONDUITS UNDER ROADWAY (AND/OR SIDEWALK) SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF ROADWAY BASE AND SURFACE (OR CONCRETE), EXCEPT WHERE OTHERWISE INDICATED IN THE PLANS.
15. DIRECTIONAL BORE OPERATIONS, IF USED, SHALL MEET THE REQUIREMENTS OF THE LEE COUNTY DEPARTMENT OF TRANSPORTATION PLAN SPECIFICATIONS FOR SIGNAL AND STREET LIGHTING.
16. AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE WITHIN TWO FEET OF THE LIGHT POLE FOUNDATIONS OR CONDUIT RUNS, AS DETERMINED BY THE ENGINEER, THE CONTRACTOR WILL HAND DIG THE FIRST FOUR FEET OF THE HOLE FOR THE POLE FOUNDATION AND CONDUIT RUN.
17. ALL CONDUIT TRENCHES SHALL BE BACKFILLED COMPLETELY TO PROVIDE SAFE CROSSING BY THE END OF EACH WORKING DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE. THE CONTRACTOR SHALL NOT OPEN ANY AREA THAT CANNOT BE BACKFILLED IN THE SAME WORK PERIOD.
18. ALL EXCESS DIRT AND DEBRIS EXCAVATED FROM POLE FOUNDATIONS SHALL BE REMOVED DAILY TO AREAS APPROVED BY THE ENGINEER AND PAID FOR UNDER PAY ITEM 715-4-14.
19. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SIDE STREETS, PRIVATE AND COMMERCIAL DRIVEWAYS AT ALL TIMES DURING THE CONSTRUCTION OPERATION.
20. THE LIGHTING SYSTEM WILL BE MAINTAINED BY LEE COUNTY UPON FINAL ACCEPTANCE. THE CONTRACTOR SHALL SUBMIT "AS-BUILT" PLANS TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE.
21. CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD SHOP DRAWINGS DETAILING THE LAYOUT OF THE ELECTRICAL EQUIPMENT INSIDE THE DISTRIBUTION POINT LIGHTING ELECTRICAL ENCLOSURE.
22. ALL CONDUCTORS SHALL HAVE THWN-2 600 VOLT INSULATION. ALL CONDUCTORS TO BE THHN/THWN-2. ALL CONDUCTORS SHALL BE CONTINUOUS IN COLOR FROM THE LOAD CENTER TO EACH STREET LIGHT POLE. PHASE TAPE SHALL NOT BE USED TO IDENTIFY A CONDUCTOR.
23. CONDUIT LOCATIONS AS SHOWN ON THE PLANS ARE DIAGRAMMATIC. CONDUITS MUST BE PLACED WITHIN THE ROADWAY LIMITS, BUT CAN BE ADJUSTED TO FIT AROUND EXISTING AND PROPOSED UTILITIES. WHERE PLANNED LOCATION OF LIGHTING CONDUIT RUNS 36" UNDER 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 MINIMUM OF 4" x 4" OF CONCRETE. COST OF SUCH TREATMENT WILL BE INCIDENTAL TO PAY ITEMS PROVIDED.
24. CONTRACTOR SHALL PREPARE ACCURATELY DIMENSIONED "AS-BUILT" PLANS OF FINAL POLE, CONTROLLER, AND CONDUIT LOCATIONS. "AS-BUILT" 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 LEE COUNTY MAINTENANCE. COST OF SUCH PREPARATION SHALL BE INCIDENTAL TO THE PAY ITEMS PROVIDED.
25. ALL CONDUITS SHALL BE MANDREL TESTED AND CLEANED. CONDUIT PLACED FOR FUTURE USE SHALL HAVE 1/4" POLYESTER CORD PULLED IN PLACE AND CAPPED, WITH NOTATION INSIDE CONDUIT AS TO LOCATION OF OPPOSITE END. PLACE PULL BOXES TO MARK ENDS OF EMPTY CONDUITS.
26. THE CONTRACTOR SHALL CONTACT THE POWER COMPANY TO DETERMINE IF A SERVICE PROCESSING FEE IS REQUIRED. THE FEE SHALL BE INCLUDED AS PART OF PAYMENT FOR THE LOAD CENTER.
27. CONTRACTOR SHALL USE THE CONCRETE FOUNDATION PER FDOT STANDARD PLAN INDEX 715-002 (SCREW TYPE FOUNDATION IS NOT ALLOWED).
28. ALL POLE FOUNDATIONS SHOULD BE 2" ABOVE GRADE AT ALL LOCATIONS. IF ADJUSTMENTS ARE NECESSARY PLEASE NOTIFY ENGINEER.
29. STREETLIGHTS, ELECTRIC SERVICES, AND LOAD CENTERS SHALL NOT BE PLACED IN DITCHES, DRAINAGE SLOPES, SWALES, OR WHERE SHEET OR STANDING WATER CAN INTRUDE.
30. ALL ROADWAY STREET LIGHTING SHALL BE FP&L 480VAC SINGLE PHASE 2-WIRE.
31. IF THE EOR DETERMINES A SPREAD FOOTER SHALL BE USED IN LIEU OF A PRE-FORMED FOUNDATION, THE SPREAD FOOTER SHALL CONFORM TO THE LATEST FDOT INDEX 715-002 FOR STANDARD ALUMINUM LIGHTING.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	JEI PROJECT ID	
					C.R. 850	LEE	20192030-000	

PAY ITEM FOOTNOTES:

PAY ITEM NO. 630-2-11:

GENERAL SIGNALIZATION AND STREET LIGHTING CONDUIT SHALL BE PVC CONDUIT AND BE SCHEDULE 40 OR SCHEDULE 80 APPROVED FOR ELECTRICAL USE (GRAY). NO THIN WALL CONDUIT IS ALLOWED. TWENTY (20) FOOT LENGTHS ON RUNS OVER TWENTY (20) FOOT SHALL BE USED.

PAY ITEM NO. 630-2-11A:

FOC INTERCONNECT CONDUIT SHALL BE, FOUR (4) EACH (1 - GREEN, 1 - BLUE, 1 - ORANGE, 1 - YELLOW) 1-1/4 INCH CONTINUOUS HDPE SDR 13.5. NO OTHER CONDUIT COLORS CAN BE USED UNLESS APPROVED BY LEE COUNTY DOT TRAFFIC IN WRITING. A MINIMUM OF #10 ORANGE CU THHN COPPER WIRE SHALL BE INSTALLED FOR LOCATING PURPOSES IN THE ORANGE CONDUIT. THE LOCATE WIRE SHALL NOT BE SPLICED IN THE CONDUIT. SPLICES OF THE LOCATE WIRE SHALL BE IN PULL BOXES AND SPLICED WITH A SPLIT BOLT AND INSULATED PER NEC. PERFORM CONTINUITY TESTS AND INSULATION RESISTANCE TESTS ON ALL LOCATE WIRES AND PROVIDE LEE COUNTY DOT TRAFFIC WITH ALL TEST RESULTS. REPLACE, OR REPAIR DEFECTIVE LOCATE WIRE AT NO ADDITIONAL COST.

PAY ITEM NO. 630-2-12:

DIRECTIONAL BORE CONDUIT FOR GENERAL SIGNALIZATION AND STREET LIGHTING SHALL BE TWO (2) INCH CONTINUOUS HDPE SDR 13.5 AND SHALL BE GRAY IN COLOR. NO OTHER CONDUIT COLOR CAN BE USED UNLESS APPROVED BY LEE COUNTY DOT TRAFFIC IN WRITING.

PAY ITEM NO. 630-2-11 AND 630-2-12:

THE CONTRACT UNIT PRICE PER FOOT OF CONDUIT, FURNISHED AND INSTALLED WILL INCLUDE FURNISHING ALL HARDWARE AND MATERIALS AS SPECIFIED ON THE TABULATION SHEET (L-3 AND L-4). ALL LABOR, TRENCHING, BACK FILLING, AND RESTORATION MATERIALS NECESSARY FOR A COMPLETE AND ACCEPTED INSTALLATION. CONSIDER THE LOCATIONS OF CONDUIT AS SHOWN ON THE PLANS AS APPROXIMATE. CONSTRUCT CONDUIT RUNS AS STRAIGHT AS POSSIBLE AND OBTAIN THE ENGINEER'S APPROVAL OF ALL MAJOR DEVIATIONS IN CONDUIT LOCATIONS FROM THOSE SHOWN ON THE PLANS. UNDERGROUND CONDUITS ARE TO BE ADJUSTED TO AVOID UNDERGROUND UTILITIES AND SIDEWALKS. INCLUDES CONDUIT FOR MULTIPLE RUNS IN ONE TRENCH. LINEAR FOOTAGE SHOWN ON PLANS ARE FOR LENGTH OF TRENCH ONLY.

PAY ITEM NO. 633-1-123:

FOC SHALL BE 96 STRAND SINGLE MODE FIBER WITH CORNING BRAND GLASS (ALTOS 8.3/125 LT DUCT /AERIAL .4/3 DB/KM SMF28F). THIS IS AN ALL-DIELECTRIC, DRY FILLED LOOSE TUBE SINGLE MODE FOC.

PAY ITEM NO. 635-2-11A AND 635-2-12:

PULL BOXES SHALL BE POLYMER CONCRETE CONSTRUCTION (QUAZITE), HAVE ANSI TIER RATING OF T22 AND DESIGN LOAD RATING OF 22,500 LBS., NO EXCEPTIONS WILL BE PERMITTED. MINIMUM PULL BOX SIZE SHALL BE AS FOLLOWS:

- I. TRAFFIC SIGNAL AND STREET LIGHTING 17" X 30" X 12" - (PG1730BA12)
- II. FIBER OPTIC CABLE MID RUNS 24" X 36" X 24" - (PG2436BA24)
- III. FIBER OPTIC CABLE SPLICE VAULT - 30" X 60" X 36" - (PG3060BA36)

PULL BOX COVERS SHALL BE POLYMER CONCRETE CONSTRUCTION (QUAZITE), HAVE ANSI TIER RATING OF T22 AND DESIGN LOAD RATING OF 22,500 LBS., AND MARKED APPROPRIATELY, "TRAFFIC SIGNAL" OR "STREET LIGHTING", NO EXCEPTIONS WILL BE PERMITTED.

- I. 17" X 30" COVER - "TRAFFIC SIGNAL" - (PG1730HH0046), "STREET LIGHTING" - (PG1730HH0041)
- II. 24" X 36" COVER - "TRAFFIC SIGNAL" - (PG2436HH0046)
- III. 30" X 60" COVER 2 PIECE - "TRAFFIC SIGNAL" - (PG3060HH0046)

ALL PULL BOXES SHALL HAVE A MINIMUM OF SIX (6) INCHES BETWEEN OTHER PULL BOXES. ALL PULL BOXES SHALL HAVE A CONCRETE APRON; THE APRON SHALL BE MINIMUM 1-FOOT WIDE X 6 INCHES DEEP. APRON SHALL BE LEVEL TO EXISTING GRADE AND HAVE A FINISHED EDGE AND SURFACE. PULL BOXES SHALL NOT BE INCORPORATED INTO THE CABINET WORK PAD. ALL CONDUITS EXCEPT FOC CONDUIT SHALL BE PLUMBED, CENTERED AND NO LOWER/HIGHER THAN MIDPOINT IN THE PULL BOX.

PAY ITEM NO. 639-1-122 AND 715-7-12:

ROADWAY STREET LIGHTING ELECTRIC SERVICE SHALL BE MOUNTED ON EIGHT (8) INCH X EIGHT (8) INCH X TWELVE (12) FOOT CONCRETE SERVICE POLE. SINGLE THROW SAFETY SWITCH DISCONNECT AND METER SOCKET SHALL BE INSTALLED AT FIVE (5) FEET TO CENTER FROM FINAL ELEVATION. A 200 AMP 600 VAC RATED NEMA 3R NON-AUTOMATIC SINGLE THROW SAFETY SWITCH DISCONNECT (SQUARE D - HU364RB) SHALL BE INSTALLED ON THE CONCRETE SERVICE POLE, ON THE LINESIDE OF THE METER SOCKET. ALL ROADWAY STREET LIGHTING ELECTRICAL SERVICES SHALL BE METERED. METER SOCKET SHALL BE MILBANK 200 AMP LEVER BYPASS NEMA 3R ENCLOSURE RATED FOR OUTDOOR USE (MILBANK UAP9551-X-OG-HSP). METER SOCKET SHALL BE INSTALLED ON THE OPPOSING SIDE OF SAFETY SWITCH DISCONNECT ON THE CONCRETE SERVICE POLE.

ROADWAY STREET LIGHTING LOAD CENTER ENCLOSURE CABINET SHALL BE STAINLESS STEEL NEMA 3R RAINPROOF ENCLOSURE AND APPROVED BY LEE COUNTY DOT TRAFFIC. ROADWAY STREET LIGHTING LOAD CENTER ENCLOSURE CABINET SHALL BE INSTALLED ON A CABINET BASE, BASE SHALL BE POLYMER CONCRETE CONSTRUCTION (QUAZITE) P/N: PB40581224B24. CABINET BASE SHALL BE BURIED TO MANUFACTURER'S RECOMMENDED DEPTH, ELEVATION OF CABINET BASE SHALL BE AT THE SAME ELEVATION AS THE CENTER OF ROADWAY, BUT NO HIGHER THAN TWELVE (12) INCHES ABOVE THE CENTER OF ROADWAY. STUB UP CONDUITS SHALL BE NO LOWER THAN TWELVE (12) INCHES AND NO HIGHER THAN SIX (6) INCHES BELOW THE ACCESS OPENING IN CABINET PAD, AND SHALL BE CENTERED WITHIN THE ACCESS OPENING. INSTALL TWELVE (12) INCH MINIMUM BED OF ROCK UNDER CABINET BASE. GRAVEL SHALL BE 57 STONE (3/4" CLEAR) OR EQUIVALENT.

ROADWAY STREET LIGHTING LOAD CENTER WITH NEEDED COMPONENTS:

- I. SQUARE D NIGHT-MASTER LONG VERSION (8903-SQH63-V06)
- II. BUSSMANN FUSE BLOCK 3 POLE 30 AMP (R60030-3CR) ONE (1) PER EACH CIRCUIT
- III. (FOUR (4) CIRCUITS MAX PER LOAD CENTER)
- IV. ONE (1) SQUARE D SPD 40KA 480V (SDSA3650) (MOUNTED INTERNALLY)
- V. ONE (1) GE LIGHTING PHOTOELECTRIC MOUNTING BRACKET (MB-PECTL-GE)
- VI. ONE (1) INTERMATIC 480VAC TWIST LOCK PHOTO CELL (LC4535LA) (PHOTO CELL SHALL BE MOUNTED EXTERNALLY ON TOP RIGHT OF NIGHT-MASTER, WHEN FACING NIGHT-MASTER ACCESS DOOR)

PAY ITEM NO. 715-1-12:

SHALL INCLUDE CONDUCTORS AS INDICATED IN THE PLANS AND THE STANDARD PLANS. PAYMENT SHALL BE MADE ON LINEAR FOOT OF SINGLE CONDUCTOR. CONDUCTOR INSULATION SHALL BE THWN-2. USE NIGHTMASTER PART #D8903-SQH63-V06 AND REFER TO LEE COUNTY SPECIFICATIONS.

FP&L 480VAC SINGLE PHASE 2-WIRE:

- I. ALL LUMINAIRES SHALL HAVE THREE (3) #10 AWG (THHN/THWN-2) BLACK, WHITE, AND GREEN WIRE.
- II. ALL WIRING FROM THE LOAD CENTER AND FROM POLE TO POLE SHALL HAVE THREE (3) #6 AWG OR GREATER (THHN/THWN-2) BLACK, WHITE, AND GREEN WIRE.

PAY ITEM NO. 715-7-11:


INCLUDES NEMA 4X SST INDIVIDUALLY MOUNTED ENCLOSED CIRCUIT BREAKER ON LOAD SIDE OF METER AT THE PEDESTAL POLE, METER BASE, CONTROL POWER TRANSFORMERS, ENCLOSURES, PANEL BOARDS, BREAKERS, FUSES, LIGHTING CONTACTOR, LIGHTING PROTECTOR, PHOTO-ELECTRIC ASSEMBLY, CONDUIT & FEEDER CONDUCTORS FROM POWER COMPANY POINT OF SERVICE TO LIGHTING CONTROL CABINET, PULL BOX AND ALL MISCELLANEOUS HARDWARE FOR A COMPLETE INSTALLATION AS PER PLANS AND FDOT STANDARD PLANS INDEX 639-001 DETAIL "B". THE DISTRIBUTION POINT LIGHTING CONTROL ENCLOSURE SHALL BE NEMA 4X STAINLESS STEEL BASE MOUNTED CABINET AND INSTALLED PER FDOT STANDARD PLANS INDEX 639-002 FIGURE "E" AND INDEX 676-010 'BASE MOUNTED DETAIL'. INCLUDES THE COST OF FURNISHING AND INSTALLING TYPE P-II CONCRETE PEDESTAL POLE, GROUND MOUNTED CABINET, COORDINATION OF WORK WITH FP&L AND ALL SERVICE FEES.

PAY ITEM NO. 715-4-14 AND 715-500-1:

EACH ROADWAY STREETLIGHT POLE SHALL HAVE THE FOLLOWING LOCATED IN THE T-BASE. (NOT IN PULL BOX):

- I. ONE (1) BREAKAWAY FUSE HOLDER WITH LINESIDE TERMINAL HAVING A CU DUAL SETSCREW AND THE LOADSIDE TERMINAL HAVING CU CRIMP CONNECTOR. (BUSSMANN - HEB-AW-RYC) AND HAVE ONE (1) BREAKAWAY NEUTRAL FUSE HOLDER WITH PERMANENTLY INSTALLED SOLID NEUTRAL, WITH LINESIDE TERMINAL HAVING A CU SETSCREW AND THE LOADSIDE TERMINAL HAVING CU CRIMP CONNECTOR (BUSSMANN - HET-AW-RYC) FOR EACH LUMINAIRE AND SHALL BE LOCATED IN THE HAND HOLE COMPARTMENT OR T-BASE.
- II. 480VAC SURGE ARRESTOR (ASCO MODEL 235 - 235480LF030AWLN0) OR (HESCO/RLS HE480BW) AND SHALL BE INSTALLED USING BUTT CRIMP CONNECTORS.

STREET LIGHT POLE ASSEMBLY SHALL BE GROUNDED USING A #6 GREEN AWG WIRE FROM GROUND TO THE T-BASE GROUND TERMINAL LUG. ALL ROADWAY STREET LIGHTING POLES SHALL BE INSTALLED WITH A BREAKAWAY TRANSFORMER BASE. LEE COUNTY DOT TRAFFIC PREFERS HAPCO POLE PRODUCTS. ALL ROADWAY STREETLIGHT POLES SHALL BE ALUMINUM. LEE COUNTY DOT TRAFFIC PREFERS HAPCO POLE PRODUCTS. ALL ROADWAY STREETLIGHT ARMS SHALL BE ALUMINUM AND CLAMP-ON. LEE COUNTY DOT TRAFFIC PREFERS HAPCO POLE PRODUCTS. ALL ROADWAY STREET LIGHTING SHALL HAVE A MAXIMUM LUMINAIRE HEIGHT OF FORTY FIVE (45) FEET. HOLOPHANE MONGOOSE LED MEDIUM P7, 4000K CCT, WIDE ROADWAY, WITH FIELD ADJUSTABLE OUTPUT (MGLEDM-P7-40K-480-WR-VH-GRSD-AO-NL)

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	JEI PROJECT ID	
					C.R. 850	LEE	20192030-000	

PAY ITEM NOTES

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




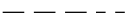


**CONVENTIONAL
LIGHTING DESIGN CRITERIA**

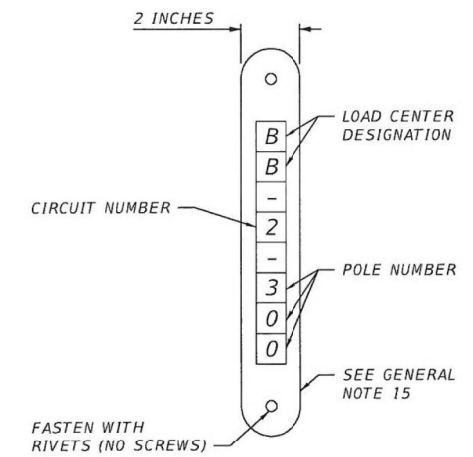
Average Initial Intensity	Foot Candles
Uniformity Ratio Avg./Min.	3:1 Or Less
Max./Min.	10:1 Or Less

LEGEND


SYMBOLS

DESCRIPTION

- 
Holophane Mongoose LED Medium P7, 4000K CCT, Wide Roadway, with Field adjustable output (MGLEDM-P7-40K-480-WR-VH-BKSD-A0-NL). Designed for Type II distribution. Pole mounting height 45 ft.
- 
Existing pole and luminaire.
- 
Schedule 40 PVC conduit with THW or THWN conductors inside (conduit and conductor size as shown on plan sheets). Run one (1) 6 AWG copper bond conductor (TW green insulation) inside conduit with other conductors.
- 
Schedule 40 PVC conduit directional bored with THW or THWN conductors inside (conduit and conductor size as shown on plan sheets). Run one (1) 6 AWG copper bond conductor (TW green insulation) inside conduit with other conductors.
- 
1-1/4" SDR 13.5 poly conduit, 4 runs:
1-BLUE
1-Orange w/ locate wire
1 Green spare
1-Yellow
- 
4" HDPE (ORANGE) - LEE COUNTY UTILITIES
- 
Pull box. For specifications see Section 635-001 of Standard Specifications For Road And Bridge Construction.
- 
Distribution point. For requirements see Index No. 639-001 of Design Standards.

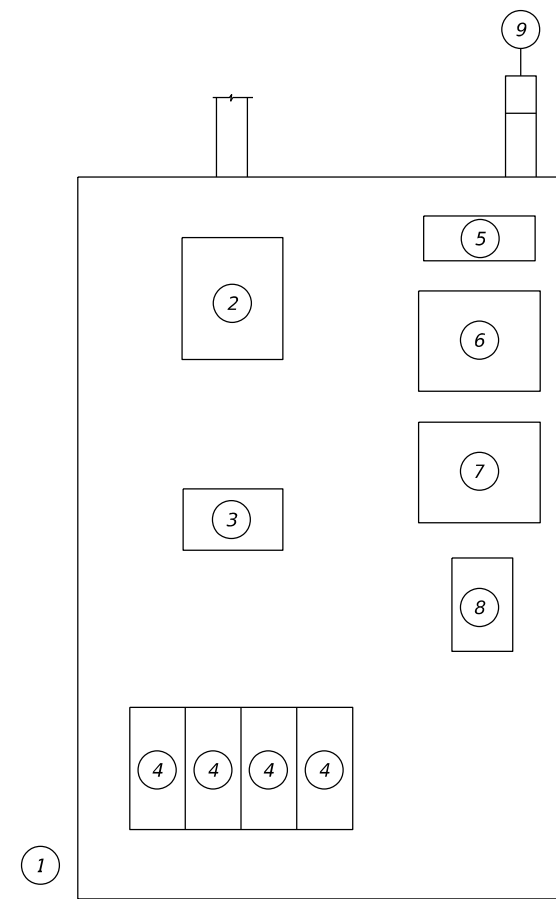


POLE IDENTIFICATION TAG DETAIL
N.T.S.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	JEI PROJECT ID		L-8
					C.R. 850	LEE	20192030-000		

CIRCUIT DATA - EAST SEGMENT							
LOAD CENTER	CIRCUIT	OUTPUT VOLTAGE (VOLTS)	PHASE	BRANCH BREAKER SIZE	MAIN BREAKER SIZE	DEMAND LOAD (KVA)	DESIGN LOAD (KVA)
A	A-1	480V	1PH	40A/2P	60A,2P	3.0	2.4
	A-2	480V	1PH	40A/2P		2.6	2.1
	A-3	480V	1PH	40A/2P		3.0	2.4
	A-4	480V	1PH	40A/2P		2.6	2.1
TOTAL						11.2	8.9

CIRCUIT DATA - WEST SEGMENT							
LOAD CENTER	CIRCUIT	OUTPUT VOLTAGE (VOLTS)	PHASE	BRANCH BREAKER SIZE	MAIN BREAKER SIZE	DEMAND LOAD (KVA)	DESIGN LOAD (KVA)
B	B-1	480V	1PH	40A/2P	60A,2P	2.6	2.1
	B-2	480V	1PH	40A/2P		2.6	2.1
	B-3	480V	1PH	40A/2P		2.6	2.1
	B-4	480V	1PH	40A/2P		2.6	2.1
TOTAL						10.5	8.4



ITEM #	DESCRIPTION	MANUF.	PART #
1	LOAD CENTER CABINET	SUNCOAST METAL FABRICATORS	SMF-2
2**	MAIN BREAKER	SIEMENS	ED42B100
3	CONTACTOR	SIEMENS	LEN00E003120A
4*	CIRCUIT BREAKER	SIEMENS	ED42B020
5	TERMINAL STRIP	IDEAL	89-210
6	TRANSFORMER	SQ "D"	9070TF100D1
7	H.O.A. SWITCH	SQ "D"	9001KYK111
8	SURGE	SQ "D"	SDSA 3650
9	PHOTOCELL	INTERMATIC	K4521

* (20 AMP LOAD RATING)
 * (100 AMP LOAD RATING)
 SERVICE WIRE - #2 AWG IN 2" GALVANIZED CONDUIT

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

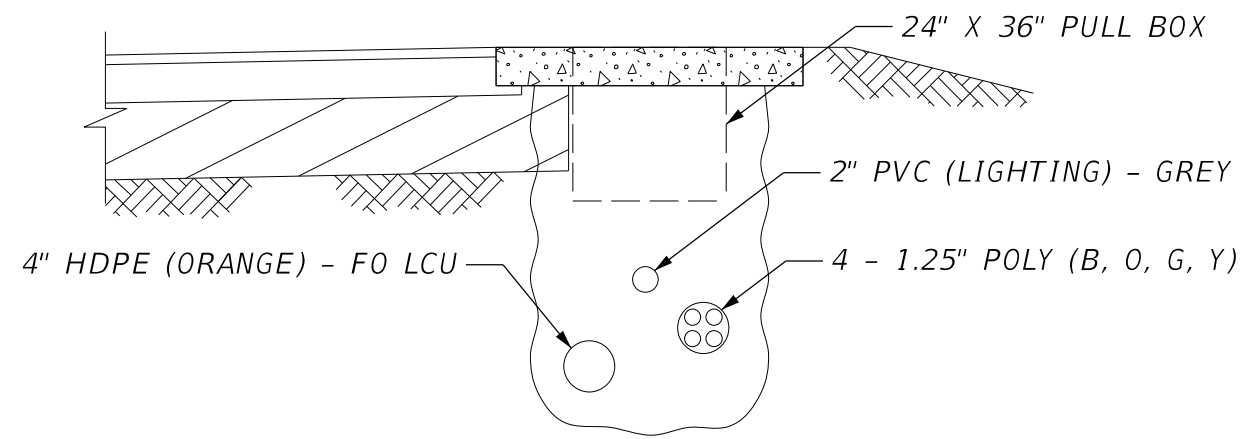
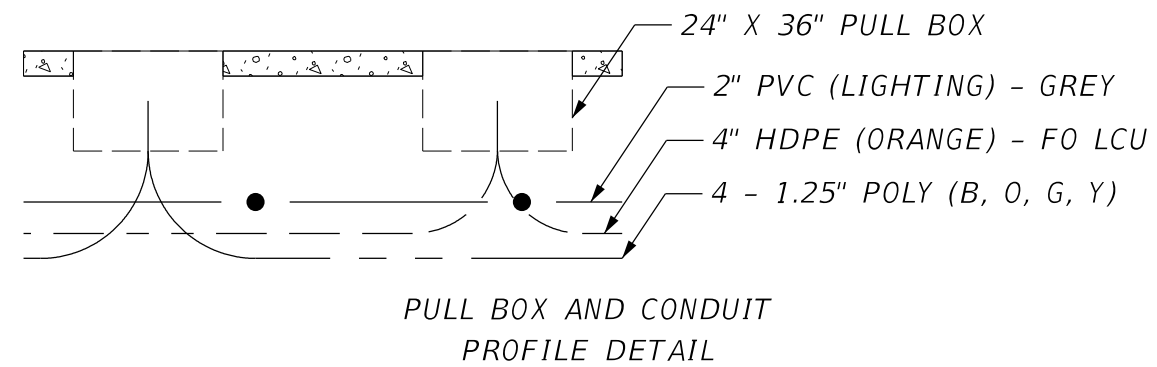
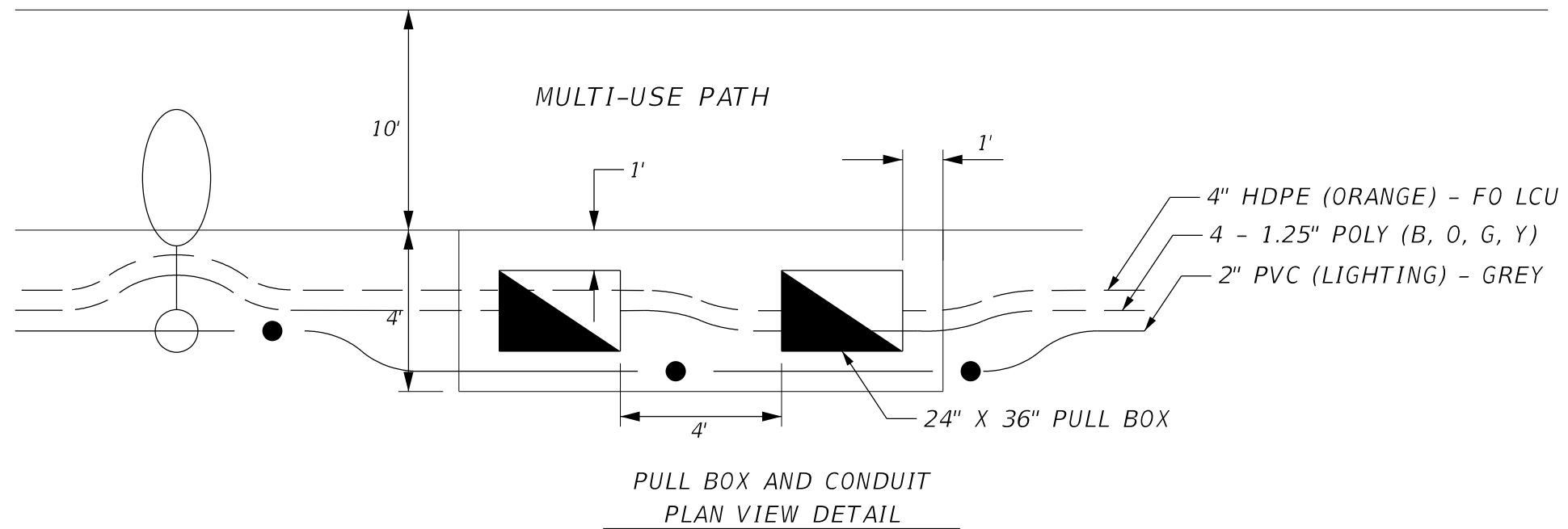
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LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	JEI PROJECT ID
C.R. 850	LEE	20192030-000

SERVICE POINT DETAILS

SHEET NO.
L-9

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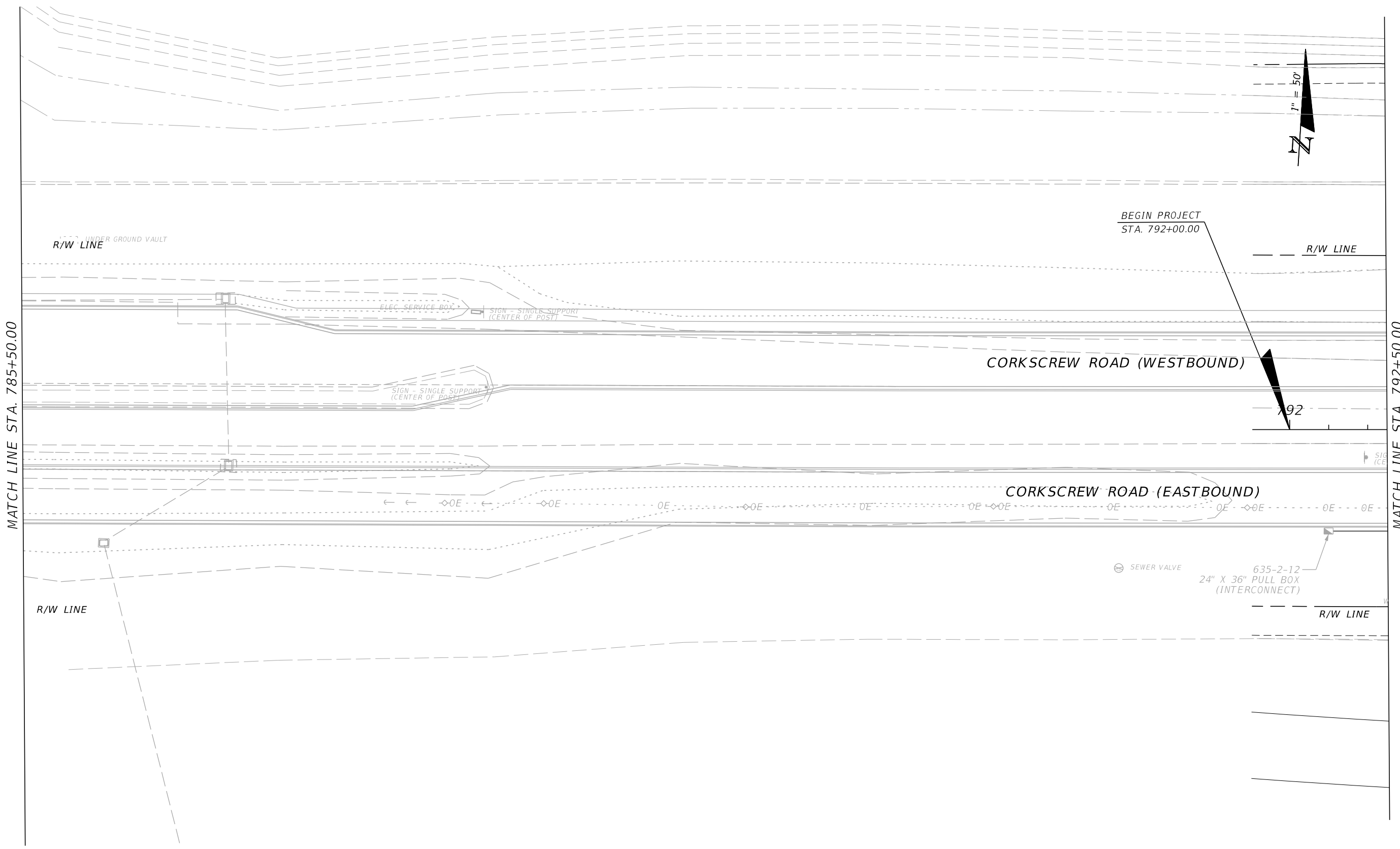
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ROAD NO.	COUNTY	JEI PROJECT ID
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SPECIAL LIGHTING DETAILS

SHEET NO.
L-10

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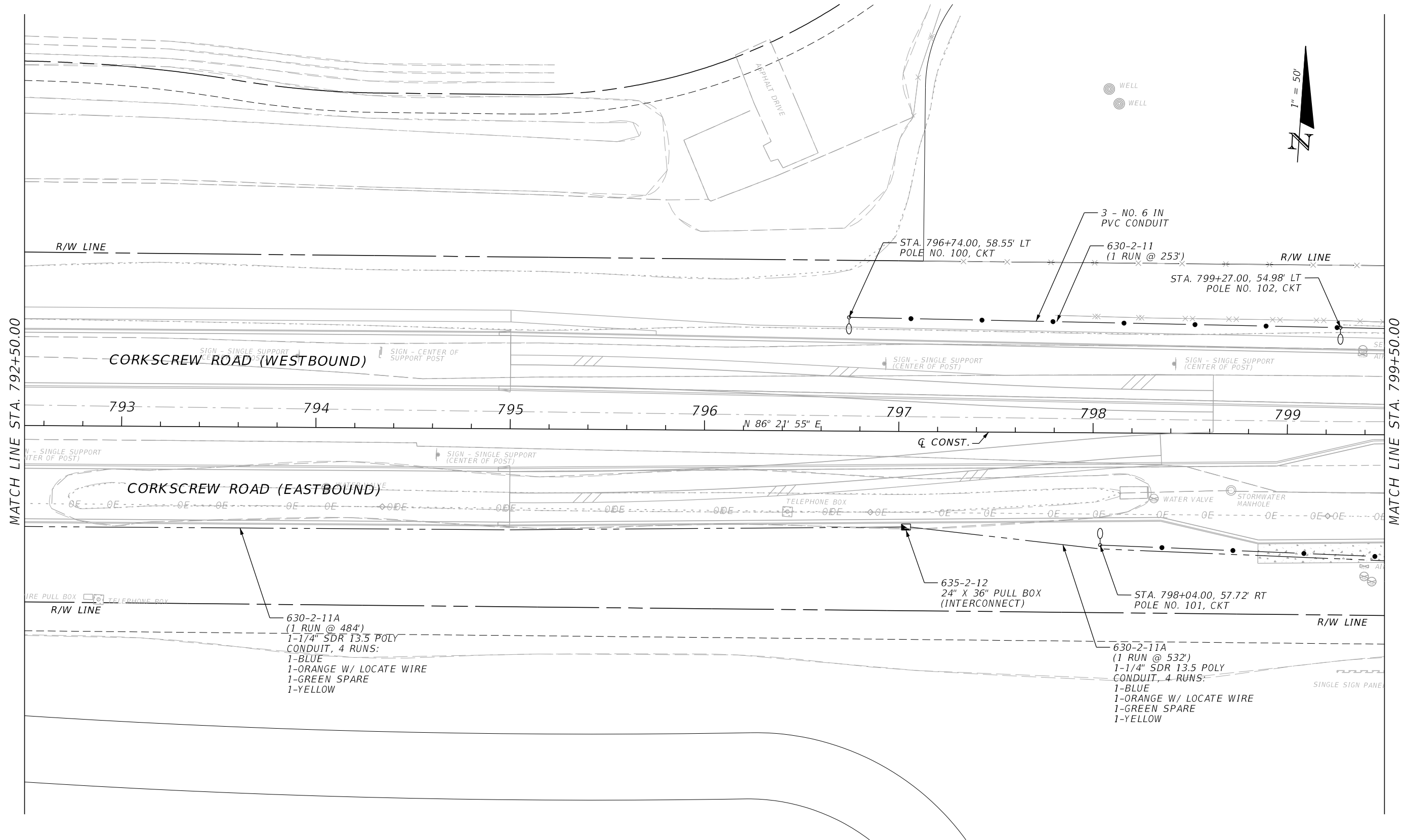
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LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	JEI PROJECT ID
C.R. 850	LEE	20192030-000

LIGHTING PLAN
CORKSCREW ROAD
STA. 785+50.00 TO STA. 792+50.00

SHEET NO.
L-11

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MATCH LINE STA. 792+50.00

MATCH LINE STA. 799+50.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

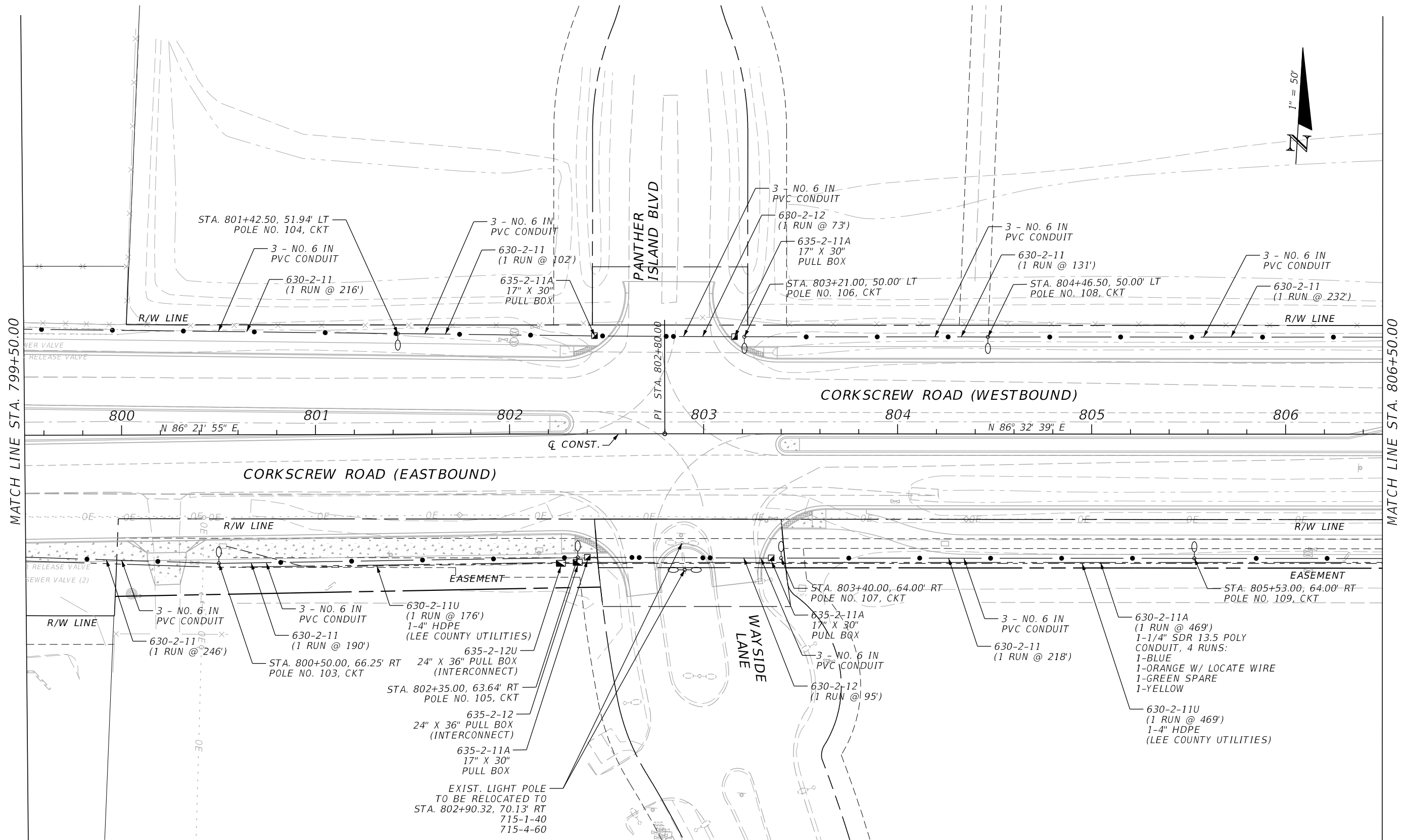
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LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	JEI PROJECT ID
C.R. 850	LEE	20192030-000

LIGHTING PLAN
CORKSCREW ROAD
STA. 792+50.00 TO STA. 799+50.00

SHEET NO.
L-12

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MATCH LINE STA. 806+50.00

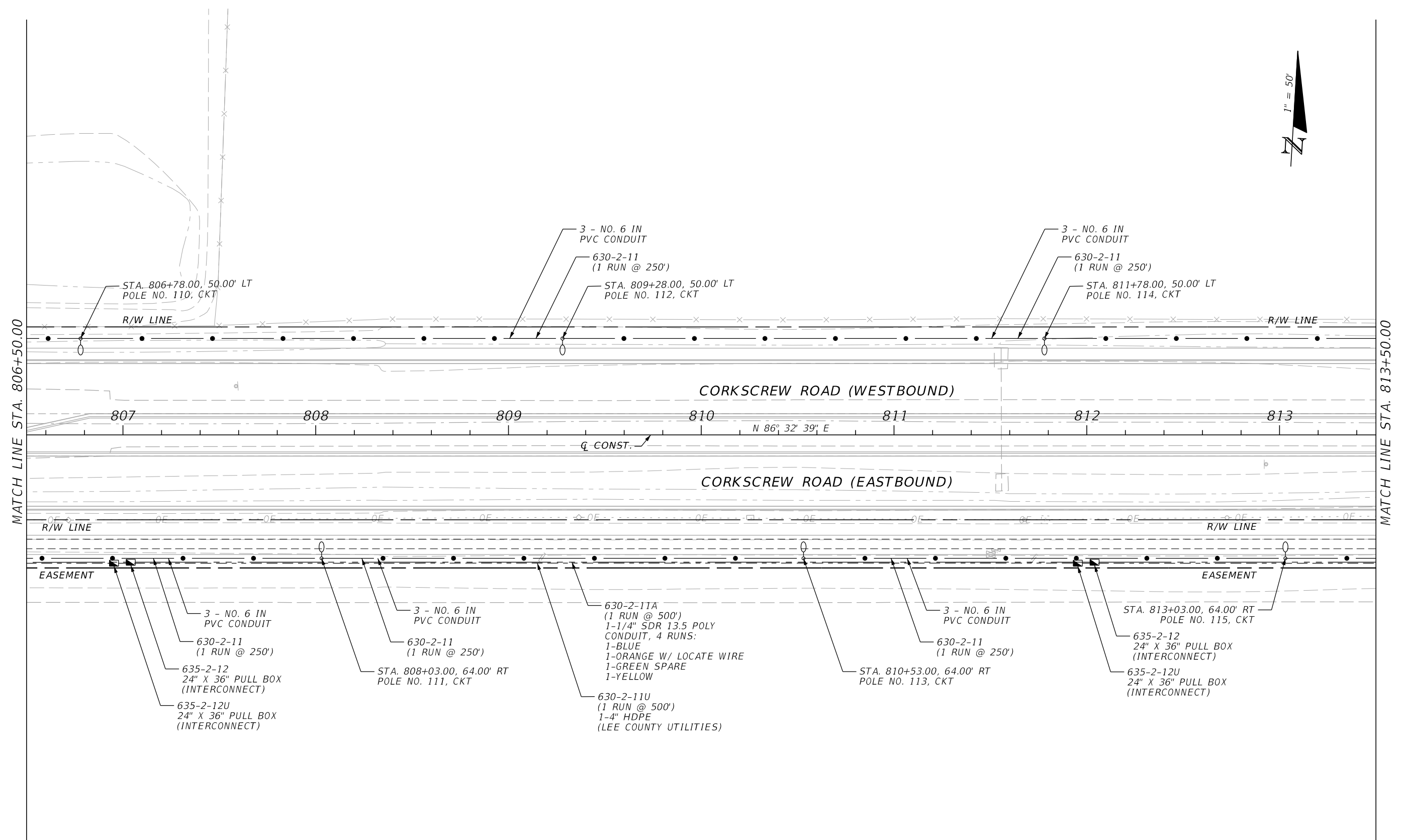
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DATE	DESCRIPTION	DATE	DESCRIPTION

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LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	JEI PROJECT ID
C.R. 850	LEE	20192030-000

LIGHTING PLAN
CORKSCREW ROAD
STA. 799+50.00 TO STA. 806+50.00

SHEET NO.
L-13



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

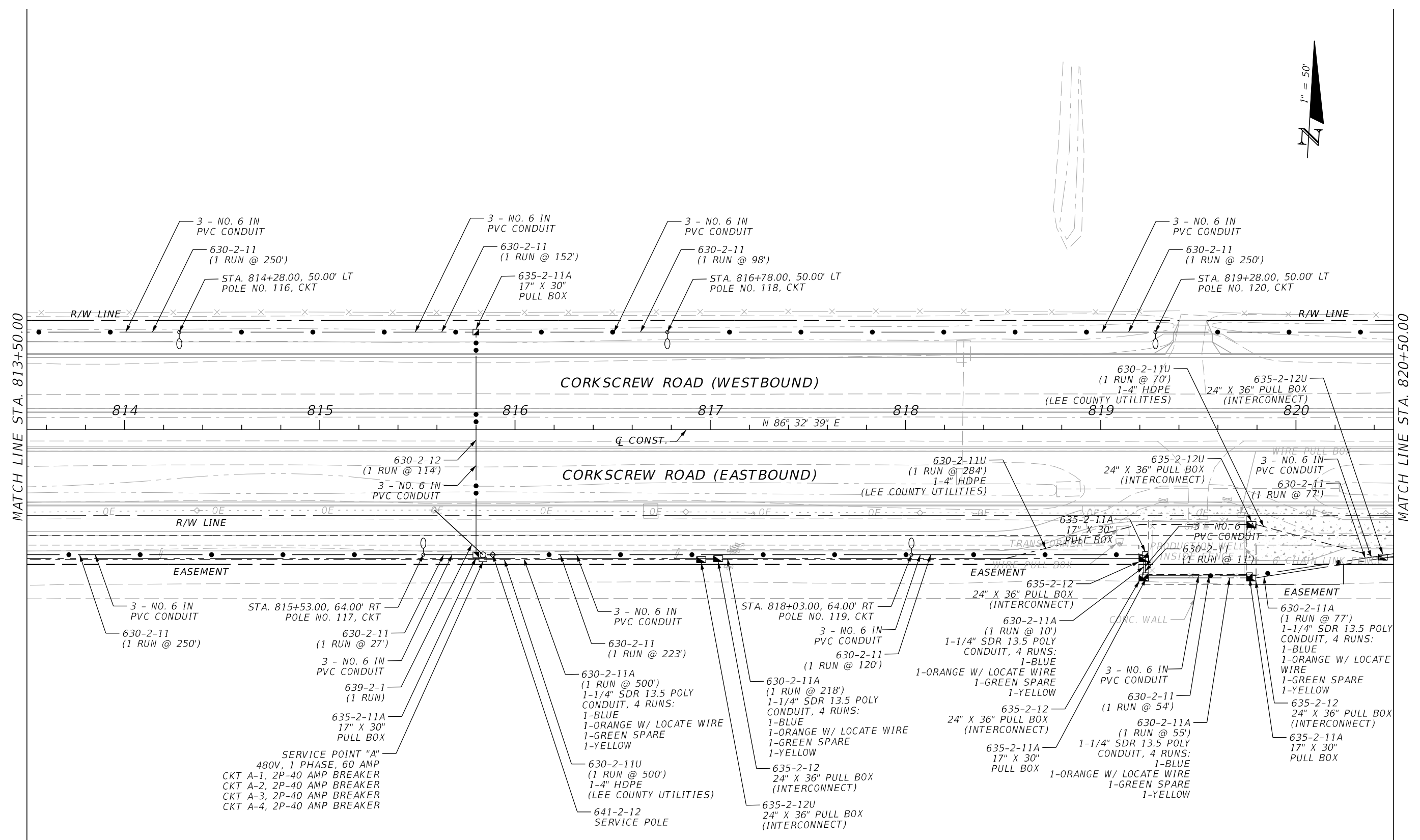
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 CERTIFICATE OF AUTHORIZATION NO. 642

LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	JEI PROJECT ID
C.R. 850	LEE	20192030-000

LIGHTING PLAN
CORKSCREW ROAD
STA. 806+50.00 TO STA. 813+50.00

SHEET NO.
 L-14

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MATCH LINE STA. 813+50.00

MATCH LINE STA. 820+50.00

REVISIONS			
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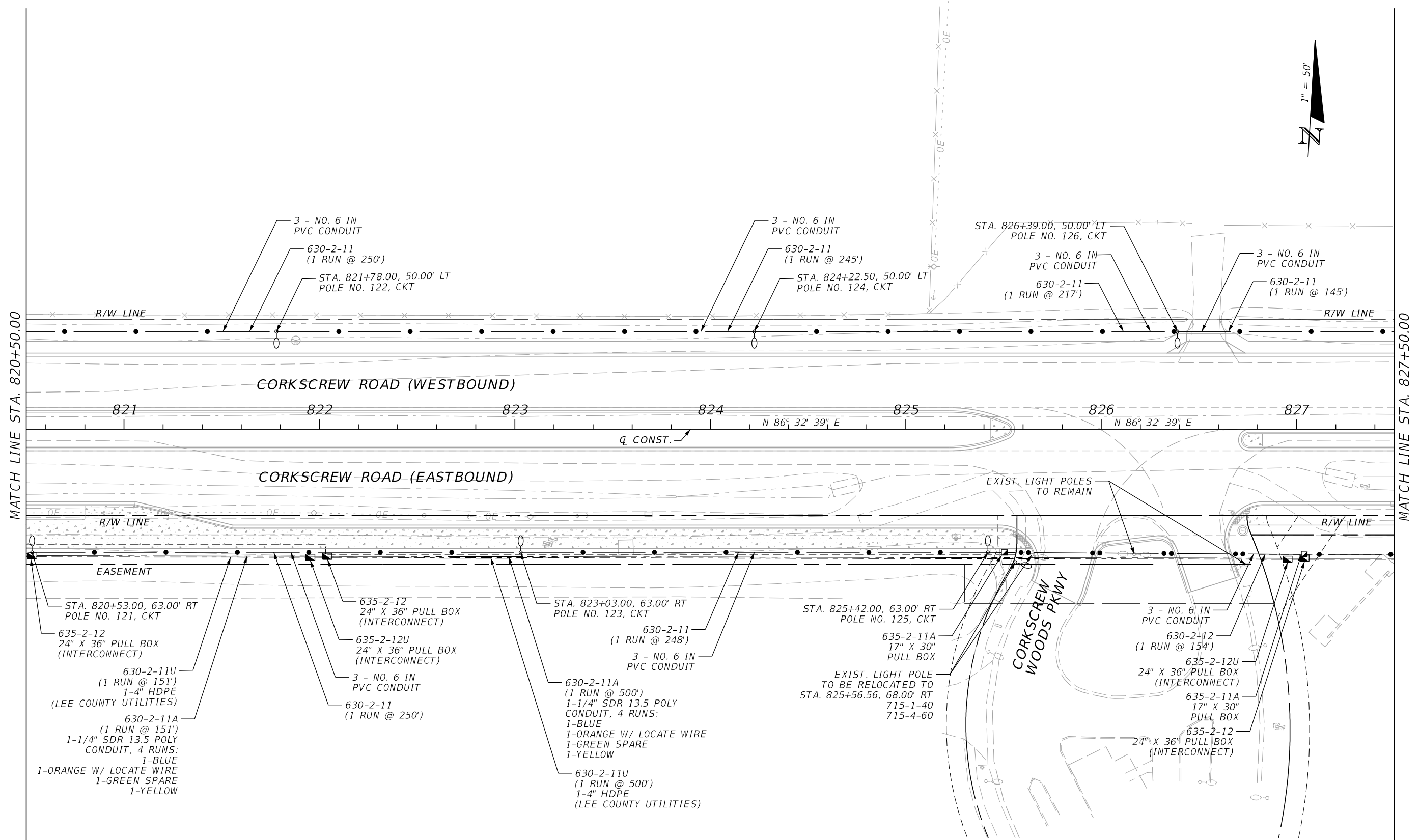
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LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	JEI PROJECT ID
C.R. 850	LEE	20192030-000

LIGHTING PLAN
CORKSCREW ROAD
STA. 813+50.00 TO STA. 820+50.00

SHEET NO.
L-15

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MATCH LINE STA. 820+50.00

MATCH LINE STA. 827+50.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

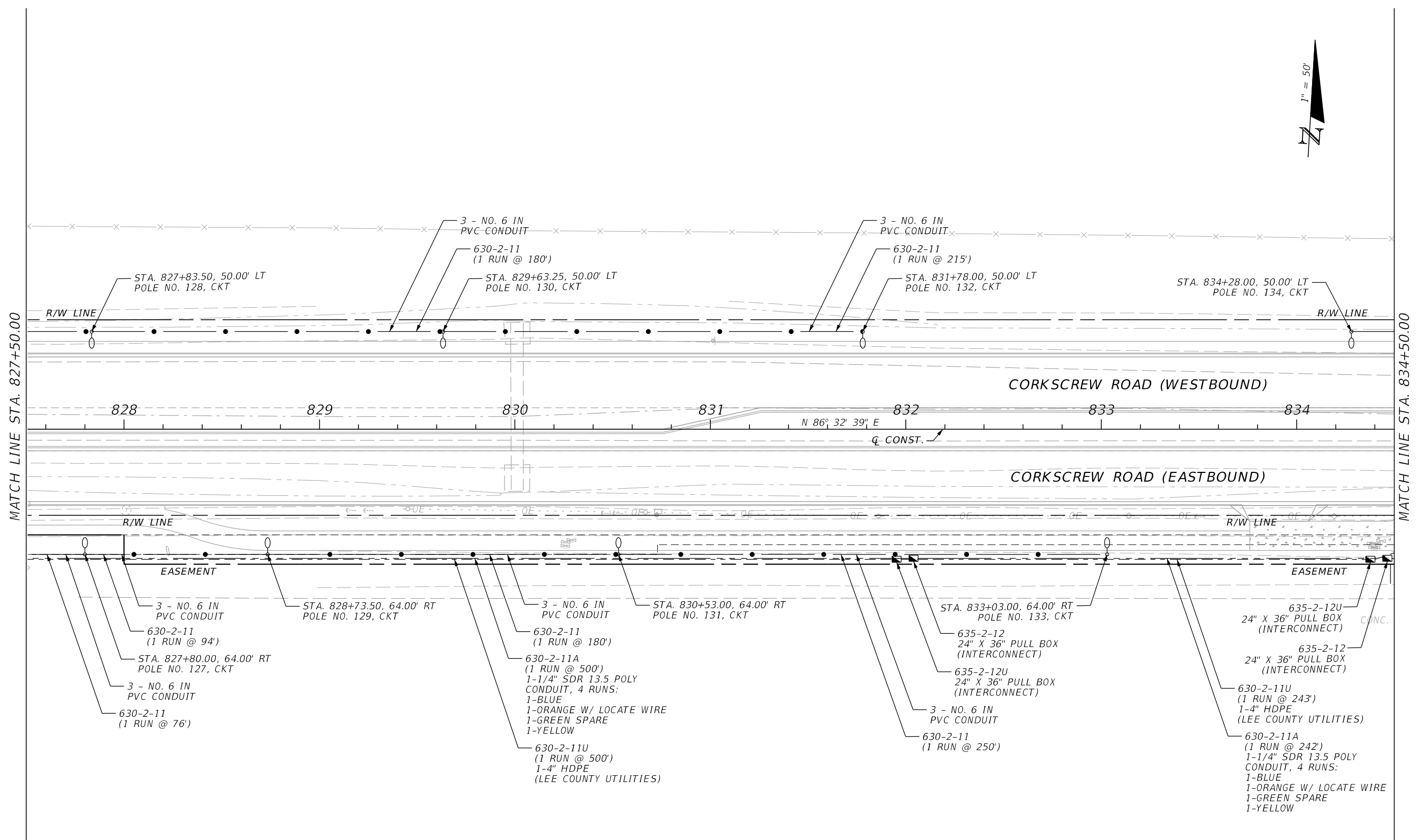
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LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	JEI PROJECT ID
C.R. 850	LEE	20192030-000

LIGHTING PLAN
CORKSCREW ROAD
STA. 820+50.00 TO STA. 827+50.00

SHEET NO.
L-16

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MATCH LINE STA. 827+50.00

MATCH LINE STA. 834+50.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

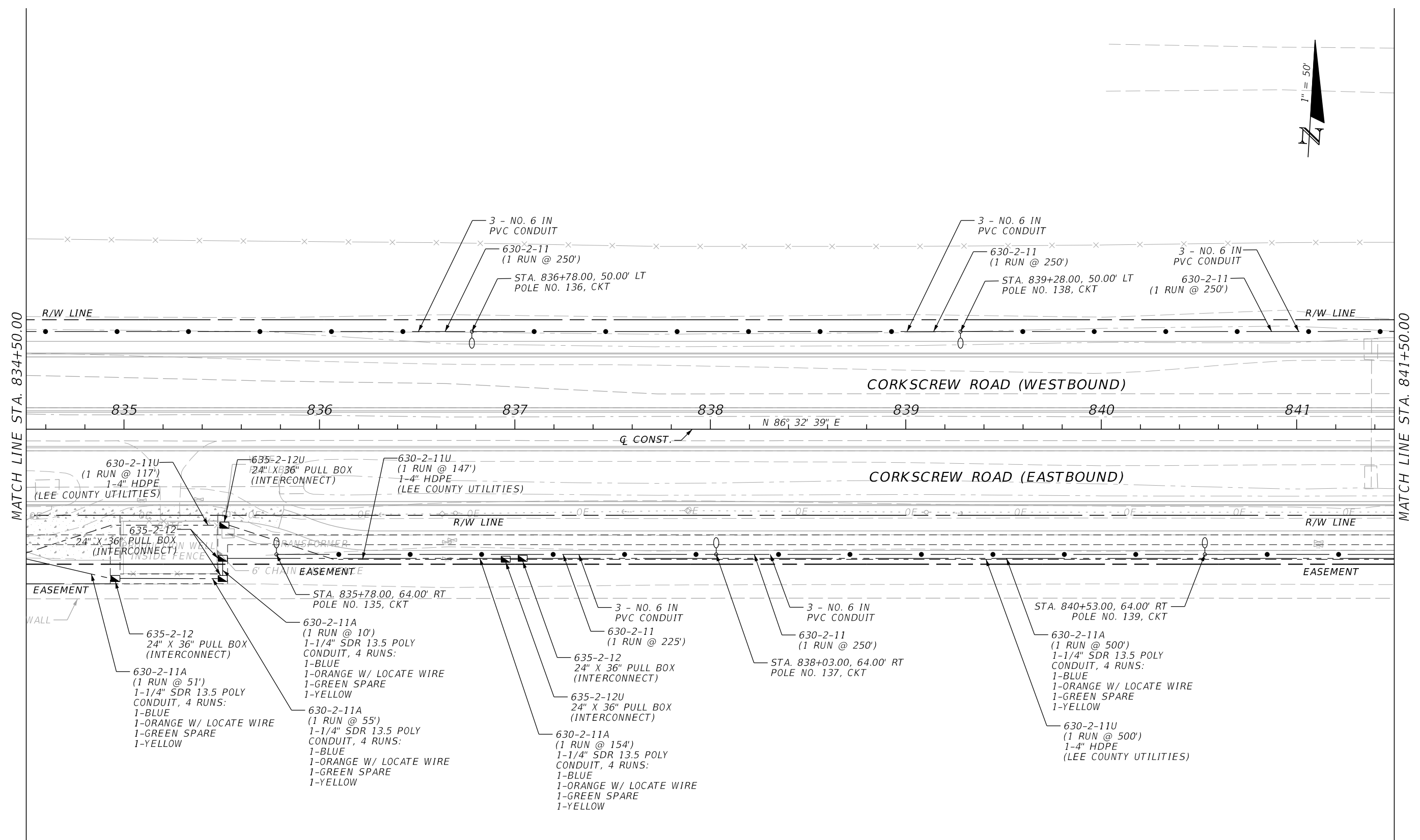
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LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	JEI PROJECT ID
C.R. 850	LEE	20192030-000

LIGHTING PLAN
CORKSCREW ROAD
STA. 827+50.00 TO STA. 834+50.00

SHEET NO.
L-17

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MATCH LINE STA. 834+50.00

MATCH LINE STA. 841+50.00

REVISIONS			
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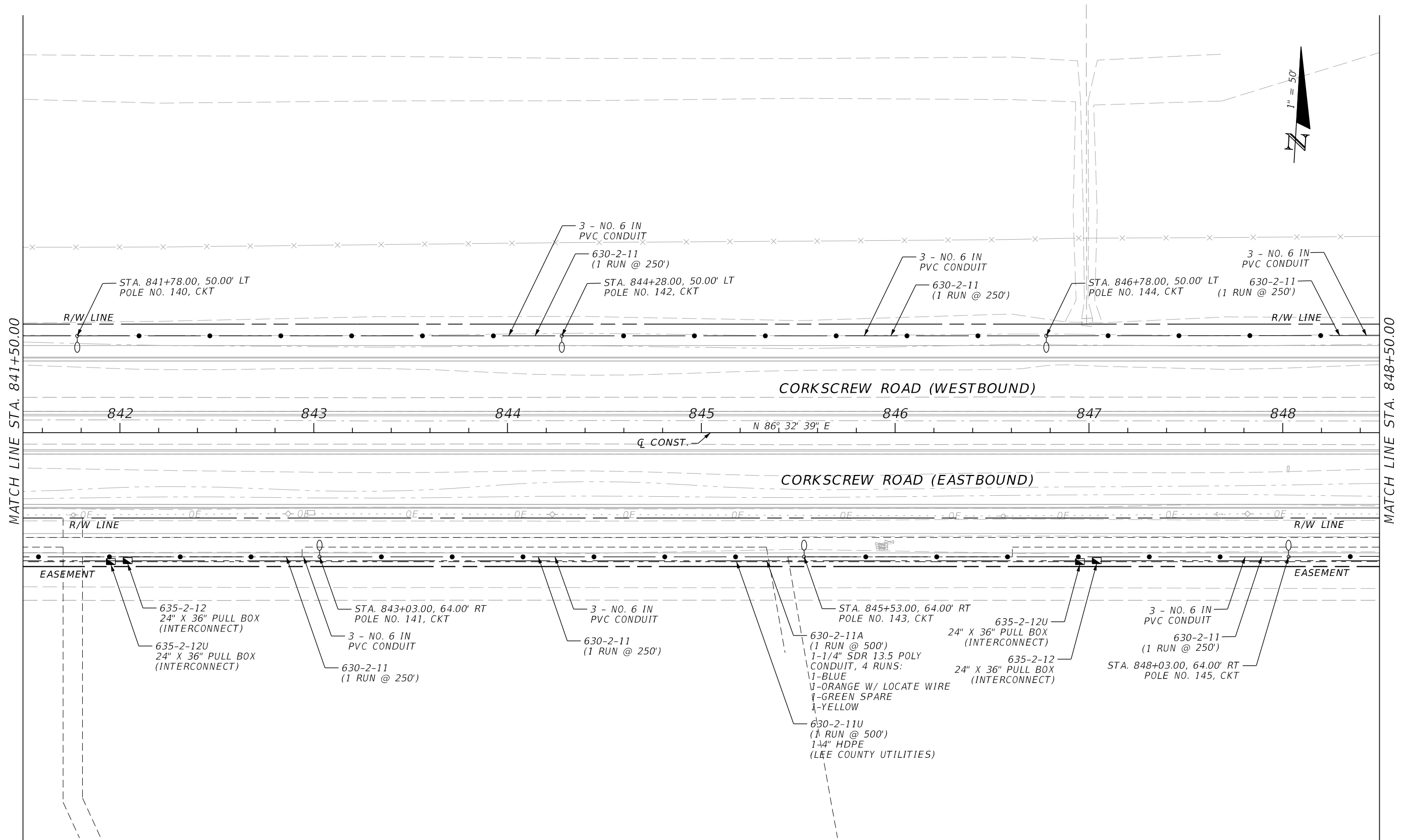
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LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	JEI PROJECT ID
C.R. 850	LEE	20192030-000

LIGHTING PLAN
CORKSCREW ROAD
STA. 834+50.00 TO STA. 841+50.00

SHEET NO.
L-18

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MATCH LINE STA. 841+50.00

MATCH LINE STA. 848+50.00

CORKSCREW ROAD (WESTBOUND)

CORKSCREW ROAD (EASTBOUND)

842

843

844

845

846

847

848

N 86° 32' 39" E

Q CONST.

EASEMENT

EASEMENT

635-2-12
24" X 36" PULL BOX
(INTERCONNECT)
635-2-12U
24" X 36" PULL BOX
(INTERCONNECT)

STA. 843+03.00, 64.00' RT
POLE NO. 141, CKT
3 - NO. 6 IN
PVC CONDUIT
630-2-11
(1 RUN @ 250')

3 - NO. 6 IN
PVC CONDUIT
630-2-11
(1 RUN @ 250')

STA. 845+53.00, 64.00' RT
POLE NO. 143, CKT
630-2-11A
(1 RUN @ 500')
1-1/4" SDR 13.5 POLY
CONDUIT, 4 RUNS:
1-BLUE
1-ORANGE W/ LOCATE WIRE
1-GREEN SPARE
1-YELLOW
630-2-11U
(1 RUN @ 500')
1-4" HDPE
(LEE COUNTY UTILITIES)

635-2-12U
24" X 36" PULL BOX
(INTERCONNECT)
635-2-12
24" X 36" PULL BOX
(INTERCONNECT)

3 - NO. 6 IN
PVC CONDUIT
630-2-11
(1 RUN @ 250')
STA. 848+03.00, 64.00' RT
POLE NO. 145, CKT

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING

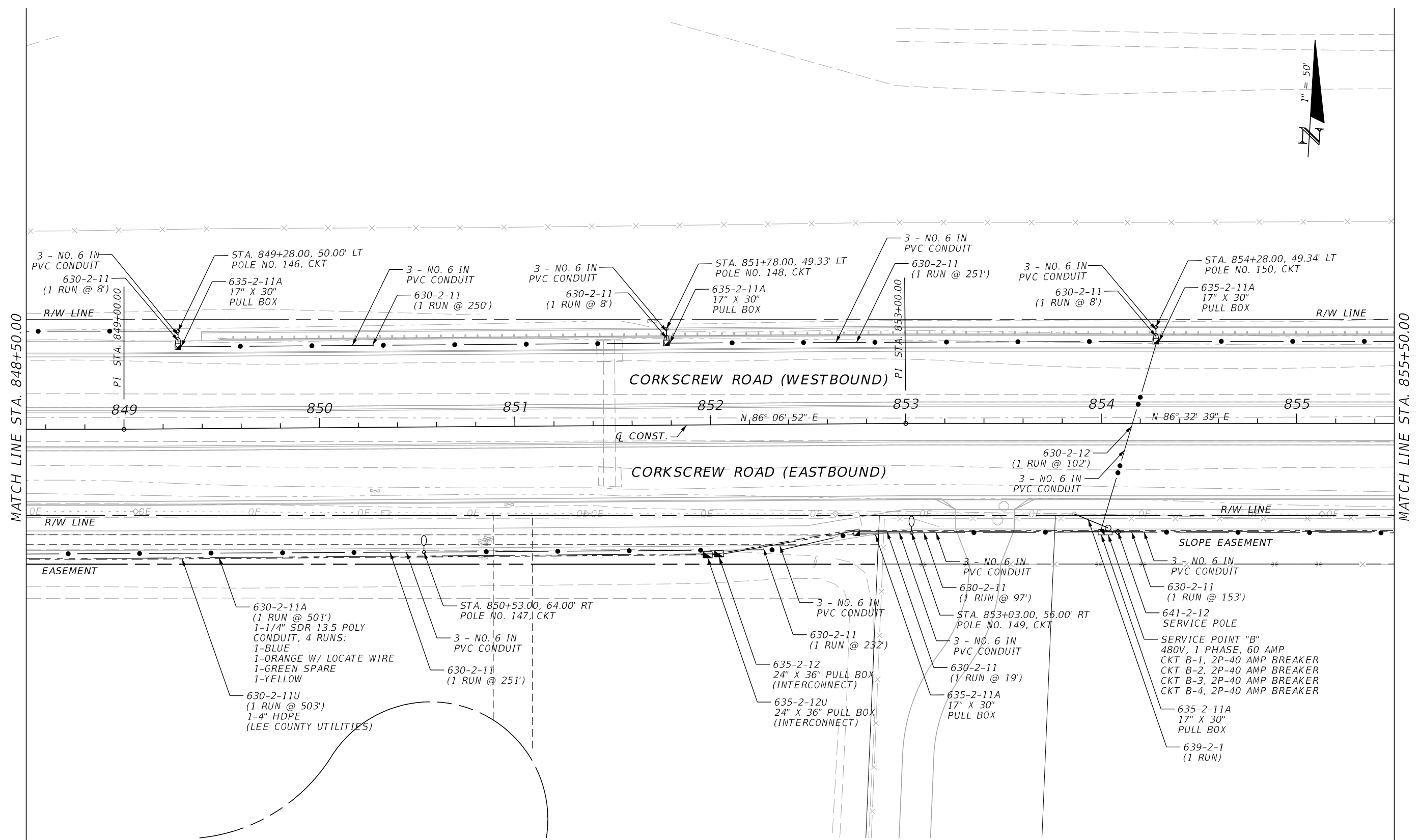
LEAH M. HOLMES • P.E. LICENSE NO. 85359
JOHNSON ENGINEERING, INC.
2122 JOHNSON STREET • FORT MYERS, FL 33901
CERTIFICATE OF AUTHORIZATION NO. 642

LEE COUNTY PUBLIC WORKS
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	JEI PROJECT ID
C.R. 850	LEE	20192030-000

LIGHTING PLAN
CORKSCREW ROAD
STA. 841+50.00 TO STA. 848+50.00

SHEET NO.
L-19



MATCH LINE STA. 848+50.00

MATCH LINE STA. 855+50.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

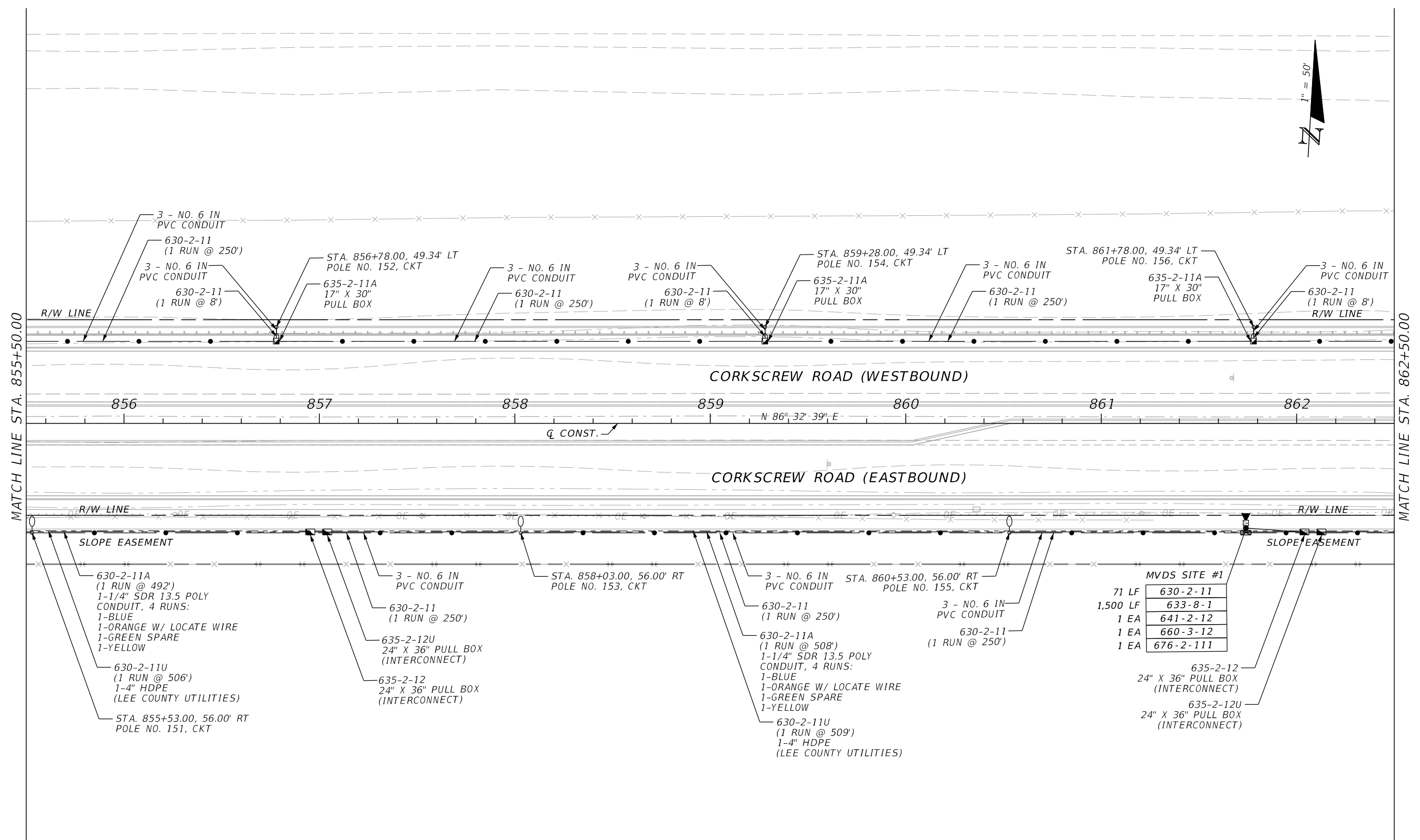
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 JOHNSON ENGINEERING, INC.
 2122 JOHNSON STREET • FORT MYERS, FL 33901
 CERTIFICATE OF AUTHORIZATION NO. 642

LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	JEI PROJECT ID
C.R. 850	LEE	20192030-000

LIGHTING PLAN
CORKSCREW ROAD
STA. 848+50.00 TO STA. 855+50.00

SHEET NO.
L-20

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MVDS SITE #1

71 LF	630-2-11
1,500 LF	633-8-1
1 EA	641-2-12
1 EA	660-3-12
1 EA	676-2-111

635-2-12
24" X 36" PULL BOX
(INTERCONNECT)

635-2-12U
24" X 36" PULL BOX
(INTERCONNECT)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING

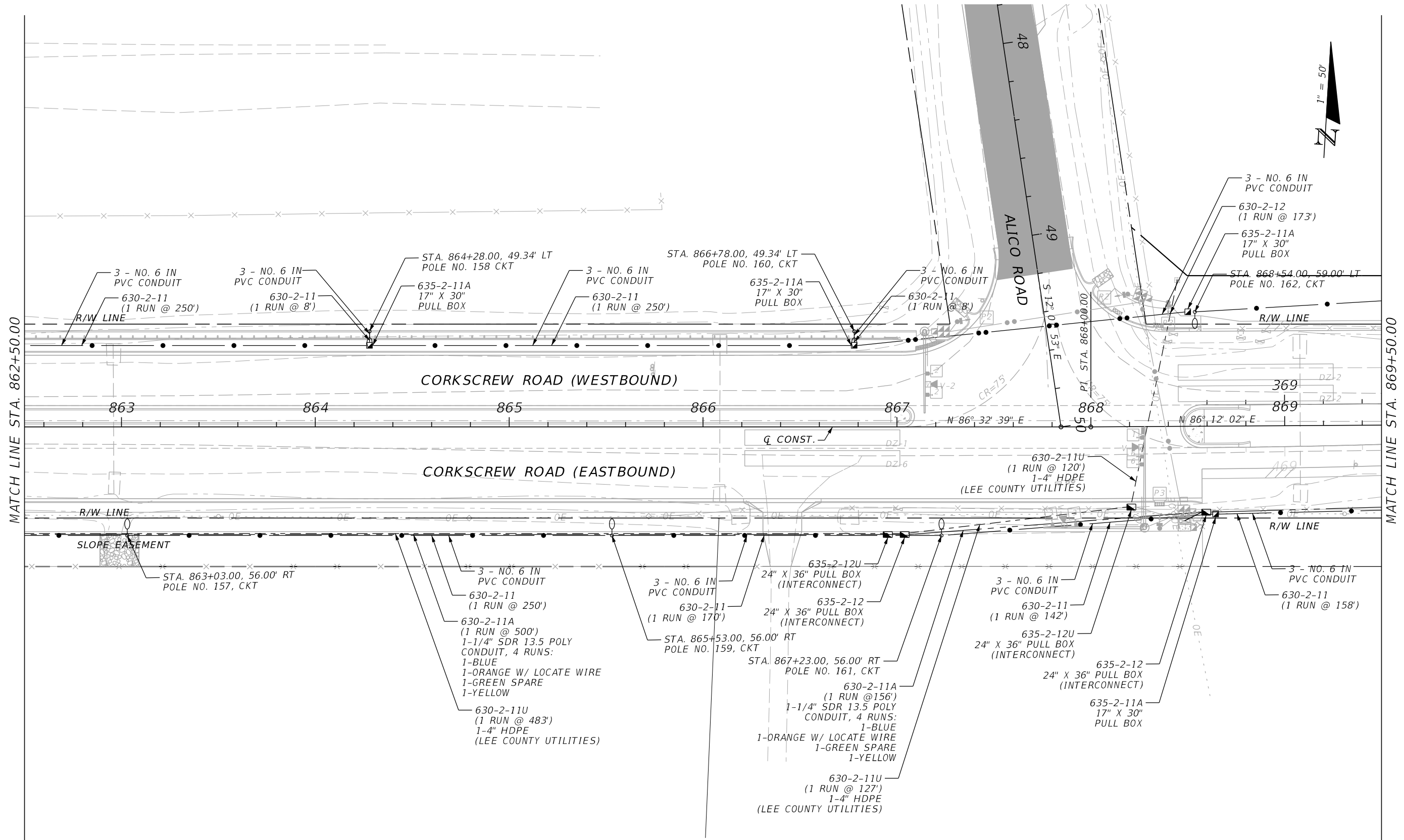
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LEE COUNTY PUBLIC WORKS
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	JEI PROJECT ID
C.R. 850	LEE	20192030-000

LIGHTING PLAN
CORKSCREW ROAD
STA. 855+50.00 TO STA. 862+50.00

SHEET NO.
L-21



MATCH LINE STA. 862+50.00

MATCH LINE STA. 869+50.00

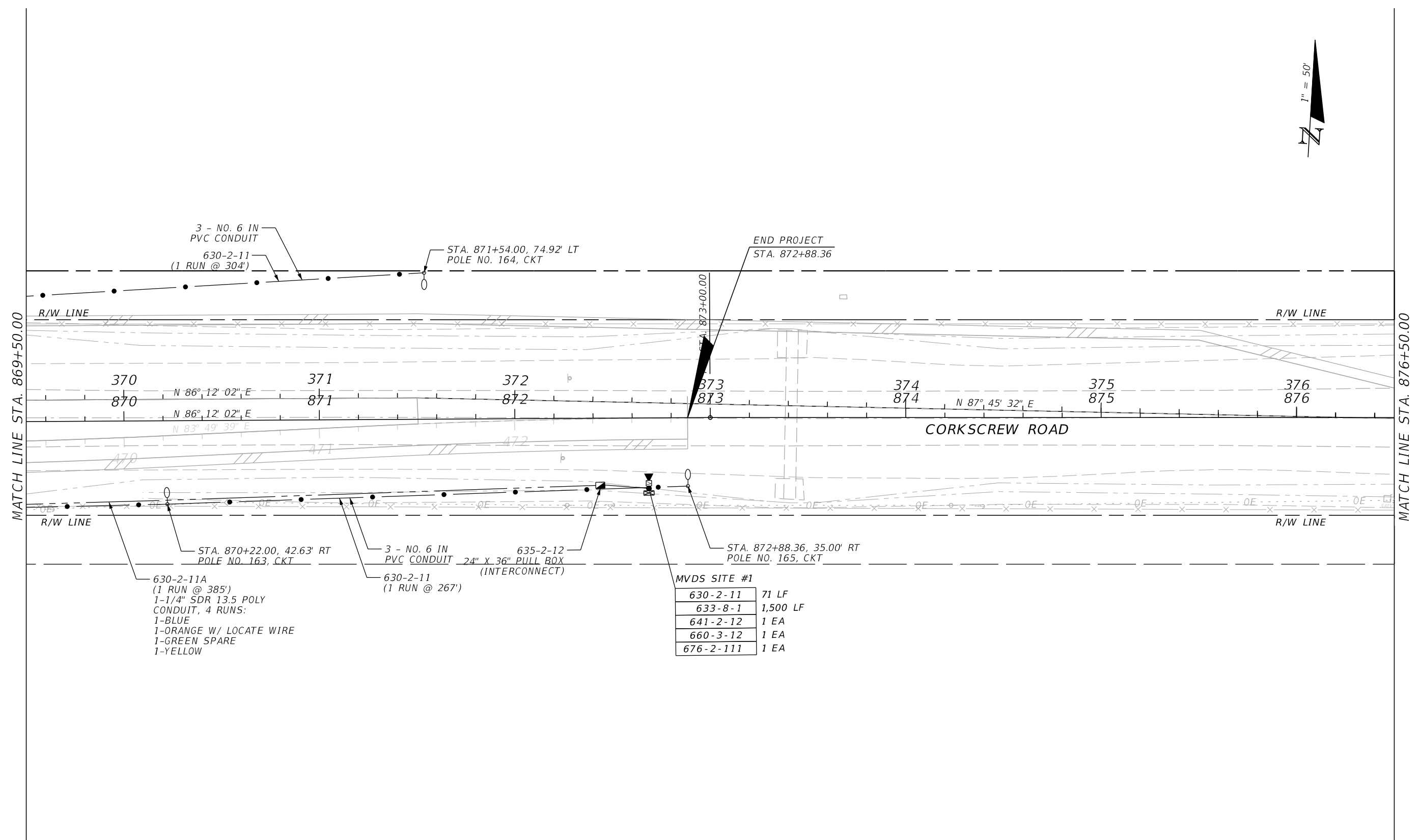
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHNSON ENGINEERING
 LEAH M. HOLMES • P.E. LICENSE NO. 85359
 JOHNSON ENGINEERING, INC.
 2122 JOHNSON STREET • FORT MYERS, FL 33901
 CERTIFICATE OF AUTHORIZATION NO. 642

LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	JEI PROJECT ID
C.R. 850	LEE	20192030-000

**LIGHTING PLAN
CORKSCREW ROAD
STA. 862+50.00 TO STA. 869+50.00**

SHEET NO.
L-22



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 JOHNSON ENGINEERING, INC.
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 CERTIFICATE OF AUTHORIZATION NO. 642

LEE COUNTY PUBLIC WORKS DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	JEI PROJECT ID
C.R. 850	LEE	20192030-000

LIGHTING PLAN
CORKSCREW ROAD
STA. 869+50.00 TO STA. 876+50.00

SHEET NO.
L-23

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