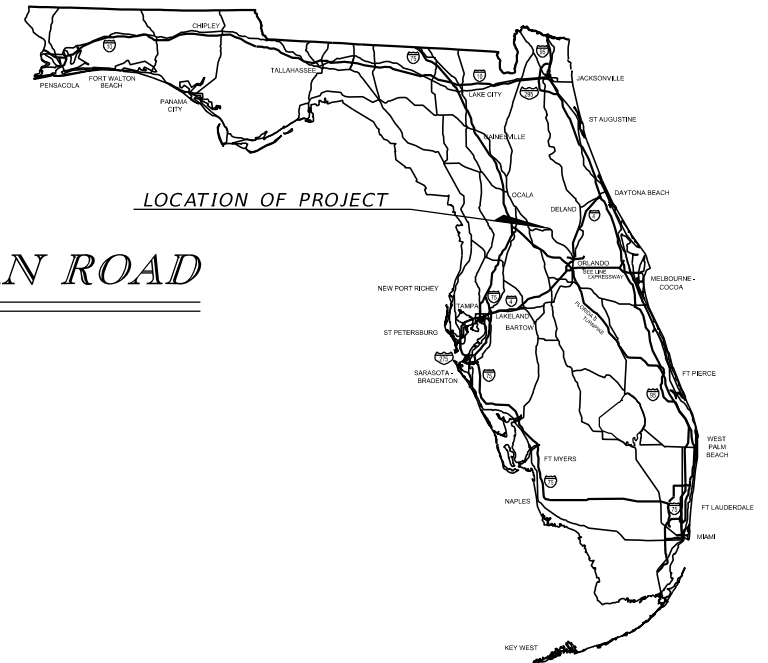


**CENTRAL FLORIDA
EXPRESSWAY AUTHORITY**

**S.R. 429 WEKIVA PARKWAY
FROM NORTH OF S.R. 500 (US 441) TO NORTH OF PONKAN ROAD**

**ORANGE COUNTY
WEKIVA PARKWAY-PROJECT NUMBER - 429-202**



INDEX OF LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
L-1	KEY SHEET
L-2 - L-4	TABULATION OF QUANTITIES SHEET
L-5	LIGHTING GENERAL NOTES SHEET
L-6	LIGHTING PAY ITEM FOOTNOTES SHEET
L-7	LIGHTING LEGEND SHEET
L-8	POLE DATA SHEET
L-9	UNDERDECK LIGHTING AND SIGN LUMINAIRE DATA SHEET
L-10	PROJECT LAYOUT
L-11 - L-33	LIGHTING PLAN SHEET
L-34 - L-38	UNDERDECK LIGHTING PLAN SHEET
L-39 - L-41	SERVICE POINT DETAIL SHEET
L-42	LED SIGN LIGHTING DETAIL

LIGHTING PLANS

**CENTRAL FLORIDA
EXPRESSWAY AUTHORITY
BOARD MEMBERS**

WELTON G. CADWELL	CHAIRMAN
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WALTER A. KETCHAM, JR.	BOARD MEMBER
JAY MADARA	BOARD MEMBER
S. MICHAEL SHEERINGA	BOARD MEMBER

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS FISCAL YEAR 2014,
AND STANDARD SPECIFICATIONS FOR ROAD AND
BRIDGE CONSTRUCTION DATED 2014,
AS AMENDED BY CONTRACT DOCUMENTS

APPLICABLE DESIGN STANDARDS REVISIONS: 01/01/14
For Design Standards revisions click on
"Design Standards" at the following web site:
<http://www.dot.state.fl.us/rddesign/>

**WEKIVA PARKWAY - 429-202
APPROVED FOR CONSTRUCTION
MAY 2015**

PLANS PREPARED BY:



TRAFFIC ENGINEERING DATA SOLUTIONS, INC.
80 SPRING VISTA DRIVE
DEBARY, FL 32713
PHONE: 386.753.0558
FAX: 386.753.0778
CONTRACT NO. 000850
VENDOR NO. F208375642001
CERT. OF AUTH. NO. 27392

NOTE: THE PROJECT TO BE LET TO CONTRACT
WITH FINANCIAL PROJECT ID 407500-1-52-01

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

KEY SHEET REVISIONS	
DATE	DESCRIPTION

LIGHTING PLANS
ENGINEER OF RECORD: FRED D. FERRELL, P.E.

P.E. NO.: 41902

FISCAL YEAR	SHEET NO.
13	L-1

CFX PROJECT MANAGER: GLENN PRESSIMONE, P.E.
HNTB PROJECT MANAGER: GREGORY J. HORNBECK, P.E.

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																		TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET		
			L-11		L-12		L-13		L-14		L-15		L-16		L-17		L-18		L-19		L-20		PLAN	FINAL		PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL							
630-2-11	CONDUIT (PVC SCHEDULE 40 - 2"), F&I, OPEN TRENCH	LF	-		1170		2148		1359		-		1286		1268		767		898		750						
630-2-12	CONDUIT, F&I, DIRECTIONAL BORE	LF	-		115		-		-		-		-		-		-		-		-						
635-2-11	PULL BOX, F&I, 13" X 24" COVER SIZE	EA	-		12		19		11		-		8		5		2		1		2						
715-1-11	CONDUCTOR #10 OR SMALLER INSULATED	LF	-		-		-		-		-		-		-		-		450		-						
715-1-12	CONDUCTOR #8 TO #6 INSULATED	LF	-		690		-		-		-		-		3417		2310		2250		2250						
715-1-13	CONDUCTOR #4 TO #2 INSULATED	LF	1857		7265		9036		4695		4500		4500		1815		-		-		-						
715-4-122	LTG. PL. COMP. (1 ARM SHLDR MNT) (ALUM. -45')	EA	-		-		5		6		-		4		-		-		-		-						
715-4-129	LTG. PL. COMP. (1 ARM SHLDR MNT) (ALUM. -35')	EA	-		4		9		1		-		-		-		-		-		-						
715-4-400	LIGHT POLE, COMPLETE, RELOCATE	EA	-		2		-		-		-		-		-		-		-		-						
715-4-600	LIGHT POLE, COMPLETE, REMOVE	EA	-		1		-		-		-		-		-		-		-		-						
715-7-11	LOAD CENTER (F&I) (SECONDARY VOLTAGE)	EA	-		1		-		-		-		-		1		-		-		-						
715-11-126	LUMINARE, F&I, UNDERDECK, PENDENT HUNG	EA	-		-		-		-		-		-		-		-		-		-						
715-50	LIGHTING, INSIDE BOX GIRDER	LS	-		1		-		-		-		-		-		-		-		-						
715-500-1	POLE CABLE DISTRIBUTION SYSTEM (CONVENTIONAL)	EA	-		4		14		7		-		4		-		-		-		-						
715-500-3	POLE CABLE DISTRIBUTION SYSTEM (WALL MOUNT)	EA	4		6		2		2		6		-		-		-		-		-						
715-513-145	LTG. PL. COMP. (1 ARM WALL MNT) (ALUM. -45')	EA	4		1		2		-		2		-		-		-		-		-						
715-515-145	LTG. PL. COMP. (1 ARM BRDG MNT) (ALUM. -45')	EA	-		5		-		2		4		-		-		-		-		-						

<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS				DATE	DESCRIPTION	DATE	DESCRIPTION					<p><i>Traffic Engineering Data Solutions, Inc.</i> 80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778 CERTIFICATION OF AUTHORIZATION # 27392</p>		<p align="center">CENTRAL FLORIDA EXPRESSWAY AUTHORITY</p>		<p align="center">CENTRAL FLORIDA EXPRESSWAY AUTHORITY</p>		<p align="center">TABULATION OF QUANTITIES SHEET</p>				<p align="center">SHEET NO. L-2</p>	
REVISIONS																											
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<p>ENGINEER OF RECORD: FRED D. FERRELL, P.E FL REGISTRATION NO. 41902</p>				<p>ROAD NO. SR 429</p>		<p>PROJECT NO. 429-202</p>		<p align="right">10/31/2014 3:17:08 PM Z:\2011 Projects\10412 (Wekiva Parkway_HNTB)\429202\lighting\TABOLT01.DGN</p>				<p align="right">Scott</p>															

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			L-21		L-22		L-23		L-24		L-25		L-26		L-27		L-28		L-29		L-30		PLAN	FINAL	PLAN	FINAL	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL							
630-2-11	CONDUIT (PVC SCHEDULE 40 - 2"), F&I, OPEN TRENCH	LF	515									318					25		25						883		
630-2-12	CONDUIT, F&I, DIRECTIONAL BORE	LF	-									-					-		-						0		
635-2-11	PULL BOX , F&I, 13" X 24" COVER SIZE	EA	2									4					1		1						8		
715-1-11	CONDUCTOR #10 OR SMALLER INSULATED	LF	-									-					-		-						0		
715-1-12	CONDUCTOR #8 TO #6 INSULATED	LF	1545									288					-		-						1833		
715-1-13	CONDUCTOR #4 TO #2 INSULATED	LF	-									660					75		75						810		
715-4-122	LTG. PL. COMP. (1 ARM SHLDR MNT) (ALUM. -45')	EA	-									-					-		-						0		
715-4-129	LTG. PL. COMP. (1 ARM SHLDR MNT) (ALUM. -35')	EA	-									-					-		-						0		
715-4-400	LIGHT POLE, COMPLETE, RELOCATE	EA	-									-					-		-						0		
715-4-600	LIGHT POLE, COMPLETE, REMOVE	EA	-									-					-		-						0		
715-7-11	LOAD CENTER (F&I) (SECONDARY VOLTAGE)	EA	-									-					-		-						1		
715-11-126	LUMINARE, F&I, UNDERDECK, PENDENT HUNG	EA	-									-					-		-						0		
715-50	LIGHTING, INSIDE BOX GIRDER	LS	-									-					-		-						0		
715-500-1	POLE CABLE DISTRIBUTION SYSTEM (CONVENTIONAL)	EA	-									-					-		-						0		
715-500-3	POLE CABLE DISTRIBUTION SYSTEM (WALL MOUNT)	EA	-									-					-		-						0		
715-513-145	LTG. PL. COMP. (1 ARM WALL MNT) (ALUM. -45')	EA	-									-					-		-						0		
715-515-145	LTG. PL. COMP. (1 ARM BRDG MNT) (ALUM. -45')	EA	-									-					-		-						0		

<p align="center">REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				DATE	DESCRIPTION	DATE	DESCRIPTION					<p align="center"><i>Traffic Engineering Data Solutions, Inc.</i></p> <p align="center">80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778</p> <p align="center">CERTIFICATION OF AUTHORIZATION # 27392</p> <p align="center">ENGINEER OF RECORD: FRED D. FERRELL, P.E FL REGISTRATION NO. 41902</p>		<p align="center">CENTRAL FLORIDA EXPRESSWAY AUTHORITY</p> <table border="1"> <tr> <td>ROAD NO.</td> <td>PROJECT NO.</td> </tr> <tr> <td align="center">SR 429</td> <td align="center">429-202</td> </tr> </table>		ROAD NO.	PROJECT NO.	SR 429	429-202	<p align="center">CENTRAL FLORIDA EXPRESSWAY AUTHORITY</p>		<p align="center">TABULATION OF QUANTITIES SHEET</p>				<p align="center">SHEET NO.</p> <p align="center">L-3</p>	
DATE	DESCRIPTION	DATE	DESCRIPTION																								
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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			L-31		L-32		L-33		L-34		L-35		L-36		L-37		L-38		PLAN	FINAL	PLAN	FINAL					
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL									
630-2-11	CONDUIT (PVC SCHEDULE 40 - 2"), F&I, OPEN TRENCH	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	10529				
630-2-12	CONDUIT, F&I, DIRECTIONAL BORE	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	115				
635-2-11	PULL BOX, F&I, 13" X 24" COVER SIZE	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	68				
715-1-11	CONDUCTOR #10 OR SMALLER INSULATED	LF	-	-	-	-	570	-	-	885	-	630	-	645	-	570	-	-	-	-	-	3300	3750				
715-1-12	CONDUCTOR #8 TO #6 INSULATED	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	12750				
715-1-13	CONDUCTOR #4 TO #2 INSULATED	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	34478				
715-4-122	LTG. PL. COMP. (1 ARM SHLDR MNT) (ALUM. -45')	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	15				
715-4-129	LTG. PL. COMP. (1 ARM SHLDR MNT) (ALUM. -35')	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	14				
715-4-400	LIGHT POLE, COMPLETE, RELOCATE	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	2				
715-4-600	LIGHT POLE, COMPLETE, REMOVE	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	1				
715-7-11	LOAD CENTER (F&I) (SECONDARY VOLTAGE)	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	3				
715-11-126	LUMINARE, F&I, UNDERDECK, PENDENT HUNG	EA	-	-	-	-	6	-	4	4	-	4	-	4	-	4	-	-	-	-	-	22	22				
715-50	LIGHTING, INSIDE BOX GIRDER	LS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	1				
715-500-1	POLE CABLE DISTRIBUTION SYSTEM (CONVENTIONAL)	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	29				
715-500-3	POLE CABLE DISTRIBUTION SYSTEM (WALL MOUNT)	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	20				
715-513-145	LTG. PL. COMP. (1 ARM WALL MNT) (ALUM. -45')	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	9				
715-515-145	LTG. PL. COMP. (1 ARM BRDG MNT) (ALUM. -45')	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	11				

REVISIONS				<i>Traffic Engineering Data Solutions, Inc.</i> 80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778 CERTIFICATION OF AUTHORIZATION # 27392 ENGINEER OF RECORD: FRED D. FERRELL, P.E FL REGISTRATION NO. 41902	CENTRAL FLORIDA EXPRESSWAY AUTHORITY ROAD NO. SR 429 PROJECT NO. 429-202	CENTRAL FLORIDA EXPRESSWAY AUTHORITY	TABULATION OF QUANTITIES SHEET	SHEET NO. L-4
DATE	DESCRIPTION	DATE	DESCRIPTION					

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	D) POLE STRENGTH CALCULATIONS
B) LOAD CENTER ELECTRICAL EQUIPMENT	E) POLE FRANGIBILITY TEST
C) POLE SHOP DRAWINGS	F) BOLT SPECIFICATIONS AND BOLT CIRCLE DIAMETER

SUBMITTAL DATA SHALL INCLUDE COMPUTER PRINTOUT SHOWING HORIZONTAL FOOT CANDLE LEVELS TO BE OBTAINED USING THE 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. PAYMENT TO BE INCIDENTAL TO THE LIGHTING AND LUMINAIRE PAY ITEM NUMBERS. A REPORT DETAILING ACTUAL FIELD LIGHT LEVEL READINGS SHALL BE SUBMITTED FOR APPROVAL. SEVEN COPIES OF SHOP DRAWINGS AND DESIGN DATA FOR HIGHWAY LIGHTING EQUIPMENT AND LOAD CENTER ELECTRICAL EQUIPMENT SHALL BE SUBMITTED TO THE ENGINEER IN CHARGE OF THE PROJECT.
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 STAKE ALL POLE LOCATIONS AND NOTIFY UTILITY OWNER(S) FOR LOCATION AND STAKING OF UNDERGROUND FACILITIES BEFORE EXCAVATING.
3. FLORIDA STATUTE 553.851 (2004) AND 556 (2004) REQUIRES THAT BEFORE EXCAVATING, NOTICE BE GIVEN TO THE UTILITY OWNER A MINIMUM OF TWO (2) DAYS AND A MAXIMUM OF FIVE (5) DAYS, EXCLUDING SATURDAY, SUNDAY AND LEGAL HOLIDAYS. NOT ALL UTILITY COMPANIES ARE MEMBERS OF "SUNSHINE" 1-800-432-4770. SEE ROADWAY PLANS FOR UTILITY OWNERS'S PHONE NUMBERS.
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 DESIGNED AND FABRICATED IN ACCORDANCE WITH AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" AND SHALL HAVE BEEN TESTED BY FHWA-APPROVED METHODS. CERTIFICATION FOR TESTS SHALL BE SUBMITTED WITH THE SHOP DRAWINGS.
6. ALL ELECTRICAL WORK SHALL MEET ALL REQUIREMENTS OF THE LATEST (ADOPTED) EDITIONS OF THE NATIONAL ELECTRICAL CODE (N.E.C.), 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 SURGE PROTECTORS, PROPERLY GROUNDED, IN POWER (SECONDARY) ENTRANCES.
8. IN ACCORDANCE WITH N.E.C., IDENTIFY ALL CIRCUITS AND EQUIPMENT WITH "LAMACOID TAGS". INSTALL SIMILAR TAGS OF STAINLESS STEEL IDENTIFYING THE CIRCUIT FOR EACH LUMINAIRE AT ACCESS HANDHOLE FOR EACH POLE.
9. THE CONTRACTOR SHALL NOTIFY DUKE ENERGY AT LEAST 2 BUSINESS DAYS PRIOR TO ANY INSTALLATION THAT IS WITHIN TEN (10) FEET OF ENERGIZED ELECTRICAL CONDUCTORS. DUKE ENERGY, AT ITS 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 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. PULL CABLE SHALL BE POLYESTER. STEEL CABLE OR FISH TAPES SHALL NOT BE UTILIZED.
11. FURNISH AND INSTALL AN ALUMINUM IDENTIFICATION TAG ON EACH ROADWAY LIGHT POLE. TAGS SHALL BE 2"x8" IN SIZE WITH BLACK LETTERS ON YELLOW BACKGROUND, ATTACHED WITH RIVETS (NO SCREWS). NUMBERS SHALL BE AS SHOWN ON THE POLE DATA SHEET ON THE POLE IDENTIFICATION TAG DETAIL. IDENTIFICATION TAG SHALL FACE THE ROADWAY. THE CONTRACTOR SHALL COORDINATE WITH CFX ROADWAY MAINTENANCE FOR PROPER NUMBERING OF THE LOAD CENTER AND CIRCUIT BEFORE ORDERING THE LIGHT POLE IDENTIFICATION TAGS. COST OF TAGS SHALL BE INCLUDED IN THE BID ITEMS FOR LIGHT POLE COMPLETE FOR PROPOSED POLES. TAG SHALL BE PLACED 5' ABOVE GRADE, EXCEPT FOR PILASTER MOUNTED POLES. FOR POLES MOUNTED ON PILASTER, THE TAG SHALL BE MOUNTED 5' ABOVE PAVEMENT. SEE DETAIL ON L-7.
12. EACH SIGN LUMINAIRE SHALL BE PROVIDED WITH A LABEL ON THE OUTSIDE IDENTIFYING THE VOLTAGE OF THE DRIVER.
13. THE LIGHT POLES SHALL BE GROUNDED PER STANDARDS REGARDLESS OF LOCAL PRACTICES. GROUNDING THE POLES THROUGH THE HANDHOLE IS UNACCEPTABLE.
14. ALL LIGHTING ASSEMBLIES SHALL HAVE TRUSS STYLE ALUMINUM BRACKET ARMS. THE UPPER AND LOWER MEMBERS SHALL BE ATTACHED TO THE POLE'S SHAFT WITH CAST ALUMINUM POLE BANDS (COLLARS) WITH STAINLESS STEEL HARDWARE. THE STANDARD BOLTED TYPE IS NOT ALLOWED. THE MAXIMUM RISE OF THE BRACKET ARM SHALL NOT EXCEED 6'.
15. THE CONCRETE PAD INDICATED IN THE FDOT INDEX I7500 IS REQUIRED AROUND LIGHTING POLES AND PULL BOXES.
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 LIGHTING POLE FOUNDATIONS OR CONDUIT RUN, AS DETERMINED BY THE ENGINEER, THE CONTRACTOR WILL HAND DIG THE FIRST 4 FEET OF THE HOLE FOR THE POLE FOUNDATION AND CONDUIT RUN. VACUUM EXTRACTION CAN BE USED AS AN ALTERNATIVE.
18. 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 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 MIN. OF 4" x 4" OF CONCRETE. COST OF SUCH TREATMENT WILL BE INCIDENTAL TO PAY ITEMS PROVIDED. THE CONTRACTOR IS TO TAKE EXTRA CARE AND HAND DIG THE CONDUIT AT UTILITY CONFLICT.
19. CONTRACTOR SHALL PREPARE ACCURATELY DIMENSIONED "AS BUILT" PLANS OF FINAL POLE, CONTROLLER, CABLE, CONDUIT, AND PULL BOX LOCATIONS. PLANS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER AND SUBMITTED TO THE RESIDENT ENGINEER. COST OF SUCH PREPARATION SHALL BE INCIDENTAL TO PAY ITEMS PROVIDED.
20. ALL SPLICES SHALL BE MADE IN PULL BOXES ONLY WITH COMPRESSION SLEEVES OR SPLIT BOLT CONNECTIONS, PROPERLY TAPED AND WATERPROOFED.
21. SPLICES AND CONNECTIONS MADE IN PULL BOXES SHALL BE LIMITED TO THE SERVICE POINT AND CONDUIT JUNCTION WITH MULTI-DIRECTIONAL CONDUITS AS INDICATED ON PLANS. THE CONNECTION MADE AT THESE POINTS SHOULD BE PROPERLY TAPED AND HEAT SHRINK TUBES OR CAPS SHALL BE USED TO WATERPROOF THESE CONNECTIONS.
22. INSPECT ALIGNMENT OF EACH INDIVIDUAL POLE AND FIXTURE AS FOLLOWS:

POLE ALIGNMENT: WITHIN ONE HALF DEGREE ON VERTICAL +/-, CONFIRM VERTICAL ALIGNMENT, VIEWING FROM ADJACENT SERIES OF POLES, IN BOTH DIRECTIONS.

FIXTURE ALIGNMENT: WITHIN ONE DEGREE OF HORIZONTAL +/-, USING CALIBRATED LEVEL ALONG BOTH AXES OF CUT-OFF FIXTURE FACE, WITH LENS ONLY.
23. ALL CONDUITS SHALL BE MANDREL TESTED AND CLEANED. CONDUIT PLACED FOR FUTURE USE SHALL HAVE 3/4" 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 ENDS OF EMPTY CONDUITS.
24. SCREW TYPE ANCHOR FOUNDATION IS NOT TO BE USED ON THIS PROJECT.
25. LIGHTING CONTRACTOR SHALL COORDINATE WITH STRUCTURAL CONTRACTOR TO ENSURE PROPER MOUNTING BOLT CIRCLES ARE CONSTRUCTED FOR THE PROPOSED POLE BASES AND TO COORDINATE LOCATIONS OF EMBEDDED CONDUIT AND PULL BOXES WITHIN THE WALLS AND BRIDGES.
26. NECESSARY CARE SHALL BE TAKEN SUCH THAT EXISTING POLES AND LUMINAIRES TO REMAIN OR TO BE RELOCATED ARE NOT DAMAGED DURING CONSTRUCTION. DAMAGED POLES AND LUMINAIRES, AS DETERMINED BY THE RESIDENT ENGINEER, SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
27. WHEN REPLACING CONDUCTOR ONLY, THE CONDUCTOR LENGTH SHALL BE REMOVED AND REPLACED DURING DAYLIGHT PERIOD TO MAINTAIN EXISTING LIGHTING.
28. ALL POLES MOUNTED ON BRIDGES OR WALLS SHALL HAVE HANDHOLES FACING THE TRAFFIC LANES.
29. AT ALL LOCATIONS WHERE PROPOSED LIGHTING CONDUIT CROSSES PERPENDICULAR TO PROPOSED OR EXISTING WALL FOOTINGS, CONTRACTOR SHALL MAINTAIN 1' CLEARANCE FROM BOTTOM OF FOOTING TO TOP OF CONDUIT.
30. REMOVAL OF SIGN LUMINAIRES AND ALL APPURTENANCES ON EXISTING SIGN STRUCTURES TO BE REMOVED ARE INCLUDED IN COST OF THE STRUCTURE REMOVAL PAY ITEM INCLUDED IN THE SIGNING AND MARKING PLANS.
31. WALL MOUNTED POLES SHALL NOT BE PLACED WITHIN 5' OF OPEN JOINTS ON MSE WALLS.
32. PULL BOXES AND LOAD CENTERS SHALL NOT BE PLACED IN DITCHES OR LOW LYING AREAS IN ORDER TO AVOID WATER INTRUSION.

REVISIONS				Traffic Engineering Data Solutions, Inc. <small>80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778</small> CERTIFICATION OF AUTHORIZATION # 27392	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CENTRAL FLORIDA EXPRESSWAY AUTHORITY	LIGHTING GENERAL NOTES SHEET	SHEET NO. L-5
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT NO.			
				ENGINEER OF RECORD: FRED D. FERRELL, P.E. FL REGISTRATION NO. 41902	SR 429	429-202			

PAY ITEM FOOTNOTES

1. ITEMS 715-4-122 AND 715-4-129: THE POLE, DAVIT ARM, LUMINAIRE WITH LAMP, ANCHOR BOLTS WITH LOCK NUTS AND WASHERS, FRANGIBLE TRANSFORMER BASES AND STANDARD FOUNDATIONS SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF THESE ITEMS. LUMINAIRE SHALL HAVE A HINGED BALLAST ASSEMBLY.
2. ITEMS 715-513-145 , 715-515-135 AND 715-515-145: THE POLE, DAVIT ARM, LUMINAIRE WITH LAMP, ANCHOR BOLTS WITH LOCK NUTS AND WASHERS, NON-FRANGIBLE BASE SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF THESE ITEMS. POLES SHALL HAVE HANDHOLE 12" ABOVE TRAFFIC RAILING OR WALL ELEVATION AND SHALL BE FACING TRAFFIC LANE. POLES SHALL BE PROVIDED WITH VIBRATION DAMPER INSIDE THE POLE (FOR BRIDGE MOUNTED POLES ONLY) AND WITH VIBRATION PADS AT THE BASE (FOR BRIDGE MOUNT ONLY). LUMINAIRES SHALL HAVE A HINGED BALLAST DOOR. THESE ASSEMBLIES ALONG WITH THE LUMINAIRE AND THE FRANGIBLE TRANSFORMER TYPE BASE, SHALL BE PAINTED DARK BRONZE (FEDERAL COLOR No. 20062) USING A THERMOSET POWDER PAINT FINISH. CONTRACTOR TO SUBMIT A COLOR CHIP FOR APPROVAL.
3. ITEM 630-2-II: CONDUIT, ELBOWS, SWEEPS, CONNECTING HARDWARE, TRENCHING AND BACKFILL AS INDICATED IN THE PLANS AND THE DESIGN STANDARDS SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF THIS ITEM. THE LINEAR FOOT PRICE FOR CONDUIT SHALL ALSO INCLUDE THE COST OF RESTORING CUT PAVEMENT, SIDEWALKS, SOD AND ETC. TO ITS ORIGINAL CONDITION.
4. ITEM 715-7-II: NEMA 3R SAFETY SWITCH ON LINE SIDE OF THE METER, METER BASE, DISCONNECT SWITCH, SERVICE POLE INSULATORS, WEATHERHEADS, 480-120V CONTROL POWER TRANSFORMERS. FUSES, LIGHTNING PROTECTION ON THE OUTSIDE OF ENCLOSURE, ENCLOSURES, PANEL BOARDS, PHOTO-ELECTRIC ASSEMBLY, BREAKERS, CONDUIT AND 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 INDEX NO. 17504 DETAIL 'A'. FURNISHING AND INSTALLING TYPE N-II CONCRETE POLE AND ALL FEES FOR INSPECTION OF CONNECTION OF THE ELECTRICAL SERVICE SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF THIS ITEM.
5. ITEM 635-2-II: PULL BOX COVER SHALL BE NONMETALLIC AND MARKED "STREET LIGHTING".
6. ITEMS 715-500-1 AND 715-500-3: POLE CABLE DISTRIBUTION SYSTEMS SHALL BE INSTALLED IN ALL PULL BOXES LOCATED ADJACENT TO ALL PROPOSED POLES. POLE CABLE DISTRIBUTION SYSTEM SHALL BE MANUFACTURED BY DURALINE OR AN CFX APPROVED EQUIVALENT.
7. ITEM 715-50: CONTRACTOR SHALL INSTALL ONE (1) WALL MOUNTED LIGHT AND SWITCH NEXT TO THE CLOSURE WALL OPENING IN EACH OF THE CLOSURE WALL AREAS AS PART OF THE BOX GIRDER MAINTENANCE LIGHTING SYSTEM. THIS SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF THIS ITEM.

REVISIONS				<i>Traffic Engineering Data Solutions, Inc.</i> <small>80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778</small> CERTIFICATION OF AUTHORIZATION # 27392 ENGINEER OF RECORD: FRED D. FERRELL, P.E FL REGISTRATION NO. 41902	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CENTRAL FLORIDA EXPRESSWAY AUTHORITY	<i>LIGHTING PAY ITEM FOOTNOTES SHEET</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT NO.			L-6
					SR 429	429-202			

LEGEND

PLAN SHEET LEGEND

DESCRIPTION

- 

SHOULDER MOUNTED 400 WATT HIGH PRESSURE SODIUM (HPS) LIGHT POLE COMPLETE DESIGNED FOR MEDIUM CUTOFF - TYPE III DISTRIBUTION. INTEGRAL MAGNETIC REGULATOR TYPE BALLAST WIRED FOR 480 VOLT OPERATION. MOUNTING HEIGHT 45'. GE MODEL M-400A POWR/DOOR LUMINAIRE W/ CUTOFF OPTICS OR AUTHORITY APPROVED EQUAL. GE PHOTOMETRIC CURVE *35-451002. TRANSFORMER BASES SHALL HAVE HINGED DOORS. SYMBOL INCLUDES INCIDENTAL CONCRETE SLAB. PULL BOX AND POLE CABLE DISTRIBUTION SYSTEM PAID FOR SEPARATELY. SEE GENERAL NOTE 14 REGARDING POLE DETAILS.
- 

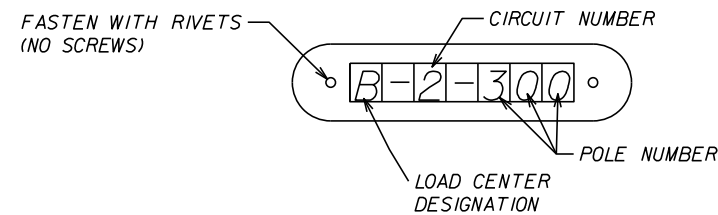
WALL MOUNTED 400 WATT HIGH PRESSURE SODIUM (HPS) LIGHT POLE COMPLETE DESIGNED FOR MEDIUM CUTOFF - TYPE III DISTRIBUTION. INTEGRAL MAGNETIC REGULATOR TYPE BALLAST WIRED FOR 480 VOLT OPERATION. MOUNTING HEIGHT 45'. GE MODEL M-400A POWR/DOOR LUMINAIRE W/ CUTOFF OPTICS OR AUTHORITY APPROVED EQUAL. GE PHOTOMETRIC CURVE *35-451002. SYMBOL INCLUDES EMBEDDED PULL BOX PAID FOR AS PART OF THE STRUCTURE AND WALL MOUNT POLE CABLE DISTRIBUTION SYSTEM PAID FOR SEPARATELY. SEE STRUCTURAL PLANS REGARDING INSTALLATION DETAILS. SEE GENERAL NOTE 14 REGARDING POLE DETAILS.
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BRIDGE MOUNTED 400 WATT HIGH PRESSURE SODIUM (HPS) LIGHT POLE COMPLETE DESIGNED FOR MEDIUM CUTOFF - TYPE III DISTRIBUTION, INTEGRAL MAGNETIC REGULATOR TYPE BALLAST WIRED FOR 480 VOLT OPERATION. MOUNTING HEIGHT 45'. GE MODEL M-400A POWR/DOOR LUMINAIRE W/ CUTOFF OPTICS OR AUTHORITY APPROVED EQUAL. GE PHOTOMETRIC CURVE *35-451002. SYMBOL INCLUDES EMBEDDED PULL BOX PAID FOR AS PART OF THE STRUCTURE AND POLE CABLE DISTRIBUTION SYSTEM PAID FOR SEPARATELY. SEE STRUCTURAL PLANS REGARDING INSTALLATION DETAILS. SEE GENERAL NOTE 14 REGARDING POLE DETAILS.
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SHOULDER MOUNTED 250 WATT HIGH PRESSURE SODIUM (HPS) LIGHT POLE COMPLETE DESIGNED FOR MEDIUM CUTOFF - TYPE III DISTRIBUTION. INTEGRAL MAGNETIC REGULATOR TYPE BALLAST WIRED FOR 480 VOLT OPERATION. MOUNTING HEIGHT 35'. GE MODEL M-400A POWR/DOOR LUMINAIRE W/ CUTOFF OPTICS OR AUTHORITY APPROVED EQUAL. GE PHOTOMETRIC CURVE *35-451002. TRANSFORMER BASES SHALL HAVE HINGED DOORS. SYMBOL INCLUDES INCIDENTAL CONCRETE SLAB. PULL BOX AND POLE CABLE DISTRIBUTION SYSTEM PAID FOR SEPARATELY. SEE GENERAL NOTE 14 REGARDING POLE DETAILS.
- 


RELOCATED SHOULDER MOUNTED 400 WATT HIGH PRESSURE SODIUM (HPS) LIGHT POLE COMPLETE DESIGNED FOR MEDIUM CUTOFF - TYPE III DISTRIBUTION. INTEGRAL MAGNETIC REGULATOR TYPE BALLAST WIRED FOR 480 VOLT OPERATION. MOUNTING HEIGHT 35'. GE MODEL M-400A POWR/DOOR LUMINAIRE W/ CUTOFF OPTICS OR AUTHORITY APPROVED EQUAL. GE PHOTOMETRIC CURVE *35-451002. TRANSFORMER BASES SHALL HAVE HINGED DOORS. SYMBOL INCLUDES INCIDENTAL CONCRETE SLAB. PULL BOX AND POLE CABLE DISTRIBUTION SYSTEM PAID FOR SEPARATELY. SEE GENERAL NOTE 14 REGARDING POLE DETAILS.


POLE IDENTIFICATION TAG DETAIL REFER TO GENERAL NOTE 11





PLAN SHEET LEGEND (CONTINUED)


DESCRIPTION


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350 MA 80 LED PENDANT HUNG UNDERDECK LUMINAIRE. DRIVER WIRED FOR 480 VOLT OPERATION. FIXTURE SHALL BE PENDANT HUNG (SEE STRUCTURAL PLAN SET FOR CONDUIT ROUTING DETAIL) BETA LED. TSP-EDG-3M-PD-08-D-UH-WH-350-40K OR AUTHORITY APPROVED EQUAL. BOTTOM OF FIXTURE SHALL BE LEVEL WITH THE BOTTOM OF THE ADJACENT BRIDGE BEAMS.
- 


350 MA 100 LED PENDANT HUNG UNDERDECK LUMINAIRE. DRIVER WIRED FOR 480 VOLT OPERATION. FIXTURE SHALL BE PENDANT HUNG (SEE STRUCTURAL PLAN SET FOR CONDUIT ROUTING DETAIL) BETA LED. TSP-EDG-3M-PD-10-D-UH-WH-350-40K OR AUTHORITY APPROVED EQUAL. BOTTOM OF FIXTURE SHALL BE LEVEL WITH THE BOTTOM OF THE ADJACENT BRIDGE BEAMS.
- 


480V, SINGLE-PHASE, 3-WIRE DISTRIBUTION POINT (SEE SHEETS L-39, L-40, AND INDEX I7504 DESIGN STANDARDS BOOKLET DATED 2013.) PHOTOCCELL IS REQUIRED PER CURRENT ADOPTED NEC STANDARDS.
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PULL BOX (SEE INDEX I7503 DESIGN STANDARDS BOOKLET DATED 2013.) PULL BOXES ARE REQUIRED AT BOTH ENDS OF CONDUIT AT ROADWAY CROSSINGS AND AS NECESSARY FOR COMPLETION OF THE PROJECT. PULL BOX COVER SHALL HAVE "STREET LIGHTING" LOGO. SYMBOL INCLUDES PULL BOX CONCRETE SLAB INCIDENTAL TO THE PULL BOX.
- 

WALL OR BRIDGE EMBEDDED PULL BOX INTEGRAL TO STRUCTURE (8" X 8" X 8") PAID AND INSTALLED UNDER STRUCTURAL CONTRACT. SEE INDEX 21210 FOR DETAILS. CONTRACTOR TO COORDINATING THE BOX LOCATIONS WITH THE ARCHITECTURAL FEATURES OF THE BRIDGE.
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PROPOSED 2" SCHEDULE 40 P.V.C. UNDERGROUND CONDUIT WITH AWG THWN-2 STANDARD COPPER CONDUCTORS INSIDE (CONDUCTOR AND GROUND WIRE SIZES SHOWN ON PLAN SHEETS) AND INSULATED GREEN STRANDED. CU BOND WIRE CONNECTING ALL POLES AND INSULATED STRANDED COPPER CIRCUIT CONDUCTORS.
- 

PROPOSED 2" SCHEDULE 40 HDPE UNDERGROUND CONDUIT WITH AWG THWN-2 STANDARD COPPER CONDUCTORS INSIDE. DIRECTIONAL BORE UNDER PAVEMENT. (CONDUCTOR AND GROUND WIRE SIZES SHOWN ON PLAN SHEETS) AND INSULATED GREEN STRANDED CU BOND WIRE CONNECTING ALL POLES AND INSULATED STRANDED COPPER CIRCUIT CONDUCTORS.
- 

PROPOSED 2" SCHEDULE 40 P.V.C. CONDUIT EMBEDDED IN CONCRETE BRIDGE RAIL OR WALL. PAID FOR IN STRUCTURAL PLANS.
- 

PROPOSED 1" SCHEDULE 40 P.V.C. EMBEDDED CONDUIT IN CONCRETE BRIDGE DECK. PAID FOR IN STRUCTURAL PLANS
- 

EXISTING CONDUIT TO REMAIN

CONVENTIONAL LIGHTING DESIGN CRITERIA

AVERAGE INITIAL INTENSITY	1.5 F.C. (MIN)/1.7 F.C. (DESIRED) TO 2.25 F.C. (MAX)
VEILING LUMINANCE RATIO MAX/AVG.	0.3:1 OR LESS
UNIFORMITY RATIO AVG/MIN. MAX/MIN.	4:1 OR LESS 10:1 OR LESS
WIND SPEED	130 M.P.H (ORANGE COUNTY)

SIGN DESIGN LIGHTING CRITERIA

AVERAGE INITIAL INTENSITY	20 F.C. (MIN) TO 30 F.C. (MAX)
UNIFORMITY RATIO AVG/MIN. MAX/MIN.	4:1 OR LESS 10:1 OR LESS

UNDERDECK LIGHTING CRITERIA

AVERAGE INITIAL INTENSITY	1.5 F.C. (MIN)/1.7 F.C. (DESIRED) TO 2.25 F.C. (MAX)
VEILING LUMINANCE RATIO MAX/AVG.	0.3:1 OR LESS
UNIFORMITY RATIO AVG/MIN. MAX/MIN.	4:1 OR LESS 10:1 OR LESS
WIND SPEED	130 M.P.H (ORANGE COUNTY)

REVISIONS				<i>Traffic Engineering Data Solutions, Inc.</i> <small>80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778</small> CERTIFICATION OF AUTHORIZATION # 27392	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CENTRAL FLORIDA EXPRESSWAY AUTHORITY	<h2 style="margin: 0;">LIGHTING LEGEND SHEET</h2>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT NO.			L-7
				ENGINEER OF RECORD: FRED D. FERRELL, P.E. FL REGISTRATION NO. 41902	SR 429	429-202			

POLE DATA

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNTING HEIGHT	POLE SETBACK	PAY ITEM
101	A-1	92+16.00 LT C̣ CONST. SR 429	10'	400 W	45'	WALL MOUNTED	715-513-145
102	A-2	92+76.00 RT C̣ CONST. SR 429	10'	400 W	45'	WALL MOUNTED	715-513-145
103	A-1	94+35.00 LT C̣ CONST. SR 429	10'	400 W	45'	WALL MOUNTED	715-513-145
104	A-2	95+11.00 RT C̣ CONST. SR 429	10'	400 W	45'	WALL MOUNTED	715-513-145
105	A-1	96+63.00 LT C̣ CONST. SR 429	10'	400 W	45'	BRIDGE MOUNTED	715-515-145
106	A-2	97+37.00 RT C̣ CONST. SR 429	10'	400 W	45'	BRIDGE MOUNTED	715-515-145
107	A-1	98+94.00 LT C̣ CONST. SR 429	10'	400 W	45'	BRIDGE MOUNTED	715-515-145
108	A-2	99+67.00 RT C̣ CONST. SR 429	10'	400 W	45'	BRIDGE MOUNTED	715-515-145
109	A-1	53+72.00 RT C̣ CONST. RAMP D	15'	250 W	35'	4' FROM F.O.C	715-4-129
110	A-2	44+08.00 RT C̣ CONST. RAMP C	15'	250 W	35'	4' FROM FACE OF GR.	715-4-129
111	A-1	101+23.00 LT C̣ CONST. SR 429	10'	400 W	45'	BRIDGE MOUNTED	715-515-145
112	A-1	55+12.00 LT C̣ CONST. RAMP D	15'	250 W	35'	4' FROM FACE OF GR.	715-4-129
113	A-2	101+90.00 RT C̣ CONST. SR 429	10'	400 W	45'	WALL MOUNTED	715-513-145
114	A-2	45+89.00 RT C̣ CONST. RAMP C	15'	250 W	35'	4' FROM FACE OF GR.	715-4-129
115	A-1	56+62.00 LT C̣ CONST. RAMP D	15'	250 W	35'	4' FROM FACE OF GR.	715-4-129
116	A-1	103+72.00 LT C̣ CONST. SR 429	10'	400 W	45'	WALL MOUNTED	715-513-145
117	A-2	104+27.00 RT C̣ CONST. SR 429	10'	400 W	45'	WALL MOUNTED	715-513-145
118	A-2	47+70.00 RT C̣ CONST. RAMP C	15'	250 W	35'	4' FROM FACE OF GR.	715-4-129
119	A-1	58+12.00 LT C̣ CONST. RAMP D	15'	250 W	35'	4' FROM FACE OF GR.	715-4-129
120	A-1	106+19.00 LT C̣ CONST. SR 429	15'	400 W	45'	20' FROM E.O.T.L	715-4-122
121	A-1	59+80.00 LT C̣ CONST. RAMP D	15'	250 W	35'	4' FROM FACE OF GR.	715-4-129
122	A-2	49+60.00 RT C̣ CONST. RAMP C	15'	250 W	35'	4' FROM FACE OF GR.	715-4-129
123	A-2	106+57.00 RT C̣ CONST. SR 429	15'	400 W	45'	4' FROM FACE OF GR.	715-4-122
124	A-1	61+41.00 LT C̣ CONST. RAMP D	15'	250 W	35'	4' FROM FACE OF GR.	715-4-129
125	A-1	108+13.00 LT C̣ CONST. SR 429	15'	400 W	45'	20' FROM E.O.T.L	715-4-122
126	A-2	51+34.00 RT C̣ CONST. RAMP C	15'	250 W	35'	4' FROM FACE OF GR.	715-4-129
127	A-2	108+87.00 RT C̣ CONST. SR 429	15'	400 W	45'	20' FROM E.O.T.L	715-4-122
128	A-1	63+01.00 LT C̣ CONST. RAMP D	15'	250 W	35'	20' FROM E.O.T.L	715-4-129
129	A-2	53+08.00 RT C̣ CONST. RAMP C	15'	250 W	35'	4' FROM FACE OF GR.	715-4-129
130	A-1	110+04.00 LT C̣ CONST. SR 429	15'	400 W	45'	20' FROM E.O.T.L	715-4-122
131	A-2	110+76.00 RT C̣ CONST. SR 429	15'	400 W	45'	20' FROM E.O.T.L	715-4-122
132	A-1	64+62.00 LT C̣ CONST. RAMP D	15'	250 W	35'	20' FROM E.O.T.L	715-4-129
133	A-2	55+08.00 RT C̣ CONST. RAMP C	15'	250 W	35'	4' FROM FACE OF GR.	715-4-129
134	A-1	66+21.00 LT C̣ CONST. RAMP D	15'	400 W	45'	20' FROM E.O.T.L	715-4-122
135	A-2	56+33.00 LT C̣ CONST. RAMP C	15'	400 W	45'	4' FROM FACE OF GR.	715-4-122
136	A-1	114+84.00 LT C̣ CONST. SR 429	15'	400 W	45'	20' FROM E.O.T.L	715-4-122
137	A-2	115+41.00 RT C̣ CONST. SR 429	15'	400 W	45'	4' FROM FACE OF GR.	715-4-122
138	A-1	117+19.00 LT C̣ CONST. SR 429	10'	400 W	45'	BRIDGE MOUNTED	715-515-145
139	A-2	117+71.00 RT C̣ CONST. SR 429	10'	400 W	45'	BRIDGE MOUNTED	715-515-145
140	A-1	119+51.00 LT C̣ CONST. SR 429	10'	400 W	45'	BRIDGE MOUNTED	715-515-145
141	A-2	120+00.00 RT C̣ CONST. SR 429	10'	400 W	45'	BRIDGE MOUNTED	715-515-145
142	A-1	121+82.00 LT C̣ CONST. SR 429	10'	400 W	45'	BRIDGE MOUNTED	715-515-145
143	A-2	122+28.00 RT C̣ CONST. SR 429	10'	400 W	45'	BRIDGE MOUNTED	715-515-145
144	A-1	124+13.00 LT C̣ CONST. SR 429	10'	400 W	45'	WALL MOUNTED	715-513-145
145	A-2	124+56.00 RT C̣ CONST. SR 429	10'	400 W	45'	WALL MOUNTED	715-513-145
146	A-1	126+48.00 LT C̣ CONST. SR 429	15'	400 W	45'	4' FROM FACE OF GR.	715-4-122
147	A-2	126+91.00 RT C̣ CONST. SR 429	15'	400 W	45'	20' FROM E.O.T.L	715-4-122
148	A-1	128+91.00 LT C̣ CONST. SR 429	15'	400 W	45'	4' FROM FACE OF GR.	715-4-122
149	A-2	129+21.00 RT C̣ CONST. SR 429	15'	400 W	45'	20' FROM E.O.T.L	715-4-122

REVISIONS				Traffic Engineering Data Solutions, Inc. 80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778 CERTIFICATION OF AUTHORIZATION # 27392 ENGINEER OF RECORD: FRED D. FERRELL, P.E FL REGISTRATION NO. 41902	CENTRAL FLORIDA EXPRESSWAY AUTHORITY ROAD NO. SR 429 PROJECT NO. 429-202	CENTRAL FLORIDA EXPRESSWAY AUTHORITY	POLE DATA SHEET	SHEET NO. L-8
DATE	DESCRIPTION	DATE	DESCRIPTION					

UNDERDECK LIGHTING DATA

POLE NO.	CIRCUIT	STATION	ELECTRONIC DRIVER (NO. OF LEDS)	MOUNTING HEIGHT	OFFSET	PAY ITEM
UD-100	A-1	98+34.00 C̄ CONST. SR 429	350 MA (100 LEDS)	22'	21.6' LT	715-11-126
UD-101	A-2	98+34.00 C̄ CONST. SR 429	350 MA (100 LEDS)	22'	21.0' RT	715-11-126
UD-102	A-1	99+10.00 C̄ CONST. SR 429	350 MA (100 LEDS)	22'	43.0' LT	715-11-126
UD-103	A-2	99+10.00 C̄ CONST. SR 429	350 MA (100 LEDS)	22'	43.0' RT	715-11-126
UD-104	A-1	99+75.00 C̄ CONST. SR 429	350 MA (100 LEDS)	22'	22.3' LT	715-11-126
UD-105	A-2	99+75.00 C̄ CONST. SR 429	350 MA (100 LEDS)	22'	22.0' RT	715-11-126
UD-106	A-1	105+40.00 C̄ CONST. SR 429	350 MA (80 LEDS)	17'	117.3' LT	715-11-126
UD-107	A-1	105+35.00 C̄ CONST. SR 429	350 MA (100 LEDS)	23.2'	44.2' LT	715-11-126
UD-108	A-2	105+38.50 C̄ CONST. SR 429	350 MA (100 LEDS)	23.2'	44.3' RT	715-11-126
UD-109	A-2	105+47.50 C̄ CONST. SR 429	350 MA (80 LEDS)	17'	129.7' RT	715-11-126
UD-110	A-3	135+16.00 C̄ CONST. SR 429	350 MA (80 LEDS)	17.6'	88.0' LT	715-11-126
UD-111	A-3	135+03.00 C̄ CONST. SR 429	350 MA (80 LEDS)	17.6'	18.0' LT	715-11-126
UD-112	A-3	134+97.00 C̄ CONST. SR 429	350 MA (80 LEDS)	17.6'	15.0' RT	715-11-126
UD-113	A-3	134+85.00 C̄ CONST. SR 429	350 MA (80 LEDS)	17.6'	85.0' RT	715-11-126
UD-114	A-3	152+39.00 C̄ CONST. SR 429	350 MA (80 LEDS)	18.8'	84.0' LT	715-11-126
UD-115	A-3	152+26.00 C̄ CONST. SR 429	350 MA (80 LEDS)	18.8'	17.0' LT	715-11-126
UD-116	A-3	152+20.00 C̄ CONST. SR 429	350 MA (80 LEDS)	18.1'	17.0' RT	715-11-126
UD-117	A-3	152+07.00 C̄ CONST. SR 429	350 MA (80 LEDS)	18.1'	84.0' RT	715-11-126
UD-118	B-1	206+06.00 C̄ CONST. SR 429	350 MA (80 LEDS)	17.2'	50.7' LT	715-11-126
UD-119	B-1	206+06.00 C̄ CONST. SR 429	350 MA (80 LEDS)	17.2'	50.8' RT	715-11-126
UD-120	B-1	206+93.00 C̄ CONST. SR 429	350 MA (80 LEDS)	17.2'	50.7' LT	715-11-126
UD-121	B-1	206+93.00 C̄ CONST. SR 429	350 MA (80 LEDS)	17.2'	50.8' RT	715-11-126

SIGN LUMINAIRE DATA

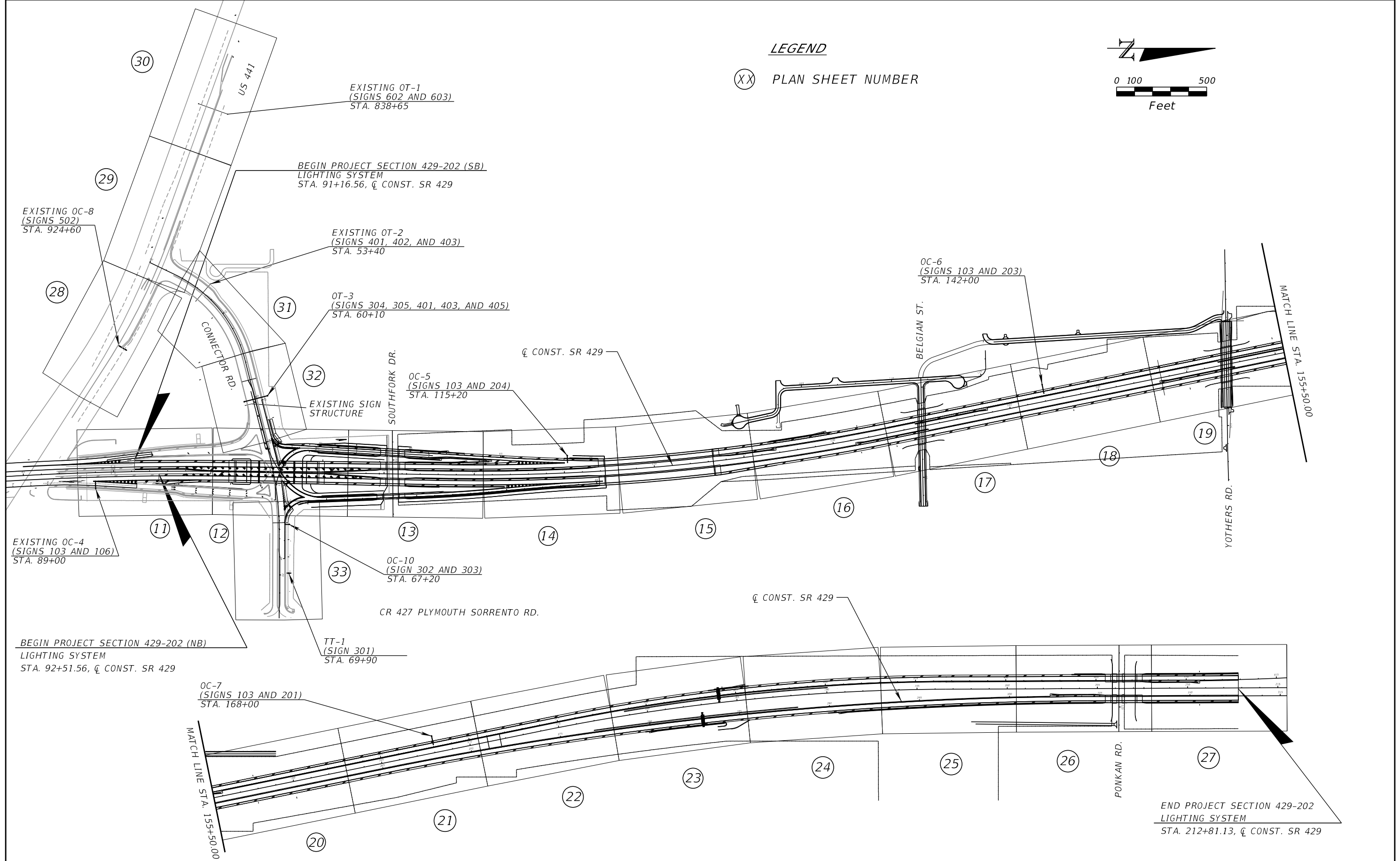
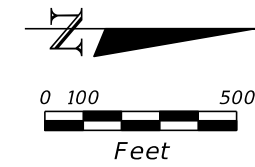
STRUCTURE NO.	SIGN NO.	CIRCUIT	STATION	NO. OF FIXTURES	ELECTRONIC DRIVER (NO. OF LEDS)	ARM LENGTH	PAY ITEM
				BOTTOM			
OC-1	102 & 103	-	650+70 C̄ CONST. SR 429	3	1050 MA (3 LEDS)	6'	SEE NOTE
OC-2	104 & 105	-	661+00 C̄ CONST. SR 429	2	350 MA (3 LEDS)	4'	SEE NOTE
OC-3	103 & 106	-	681+40 C̄ CONST. SR 429	3	1050 MA (3 LEDS)	6'	SEE NOTE
OC-4	103 & 106	-	89+00 C̄ CONST. SR 429	3	1050 MA (3 LEDS)	6'	SEE NOTE
OC-5	103 & 204	A-1	115+20 C̄ CONST. SR 429	5	350 MA (3 LEDS)	5'	SEE NOTE
OC-6	103 & 203	A-3	142+00.00 C̄ CONST. SR 429	5	350 MA (3 LEDS)	5'	SEE NOTE
OC-7	103 & 201	A-3	168+00.00 C̄ CONST. SR 429	5	350 MA (3 LEDS)	5'	SEE NOTE
OC-8	502	-	924+60 C̄ CONST NB US 441	2	700 MA (3 LEDS)	5'	SEE NOTE
OC-10	302 & 303	A-2	67+20 C̄ CONST. CONNECTOR RD	3	530 MA (3 LEDS)	6'	SEE NOTE
OT-2	401 & 402	-	53+40 C̄ CONST. CONNECTOR RD	4	350 MA (3 LEDS)	5'	SEE NOTE
OT-2	403	-	53+40 C̄ CONST. CONNECTOR RD	3	350 MA (3 LEDS)	4.5'	SEE NOTE
OT-3	401 & 405	-	60+10 C̄ CONST. CONNECTOR RD	3	530 MA (3 LEDS)	6'	SEE NOTE
OT-3	403	-	60+10 C̄ CONST. CONNECTOR RD	3	350 MA (3 LEDS)	4.5'	SEE NOTE
OT-3	304	-	60+10 C̄ CONST. CONNECTOR RD	2	350 MA (3 LEDS)	5'	SEE NOTE
OT-3	305	-	60+10 C̄ CONST. CONNECTOR RD	2	350 MA (3 LEDS)	4'	SEE NOTE
TT-1	301	-	69+90 C̄ CONST. CONNECTOR RD	2	700 MA (2 LEDS)	5'	SEE NOTE

NOTE: SIGN LUMINAIRES ARE PAID FOR UNDER THE SIGNING AND PAVEMENT MARKING PLANS.

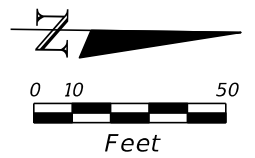
REVISIONS				Traffic Engineering Data Solutions, Inc. <small>80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778</small> CERTIFICATION OF AUTHORIZATION # 27392 ENGINEER OF RECORD: FRED D. FERRELL, P.E FL REGISTRATION NO. 41902	CENTRAL FLORIDA EXPRESSWAY AUTHORITY ROAD NO. SR 429 PROJECT NO. 429-202	CENTRAL FLORIDA EXPRESSWAY AUTHORITY	UNDERDECK LIGHTING AND SIGN LUMINAIRE DATA SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION					L-9

LEGEND

(XX) PLAN SHEET NUMBER



REVISIONS				Traffic Engineering Data Solutions, Inc. 80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778 CERTIFICATION OF AUTHORIZATION # 27392	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		PROJECT LAYOUT	SHEET NO. L-10
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT NO.		
				ENGINEER OF RECORD: FRED D. FERRELL, P.E. FL REGISTRATION NO. 41902	SR 429	429-202		



END PROJECT SECTION 429-201
 BEGIN PROJECT SECTION 429-202
 (SOUTHBOUND CONSTRUCTION)
 STA. 91+16.56, \bar{C} CONST. S.R. 429

STA. 92+16.00
 POLE NO. 101 CKT. A-1

STA. 94+35.00
 POLE NO. 103 CKT. A-1

3#4 CKT. A-1
 2" SCH. 40 PVC

SR 429 SB ON RAMP

S.R. 429 SOUTHBOUND

8 89 90 91 92 93 94 95

\bar{C} CONST. S.R. 429

S.R. 429 NORTHBOUND

3#4 CKT. A-2
 2" SCH. 40 PVC

SR 429 NB OFF RAMP

EXISTING OC-4
 (SIGN 103 AND SIGN 106)
 STA. 89+00.00

STA. 92+76.00
 POLE NO. 102 CKT. A-2

STA. 95+11.00
 POLE NO. 104 CKT. A-2

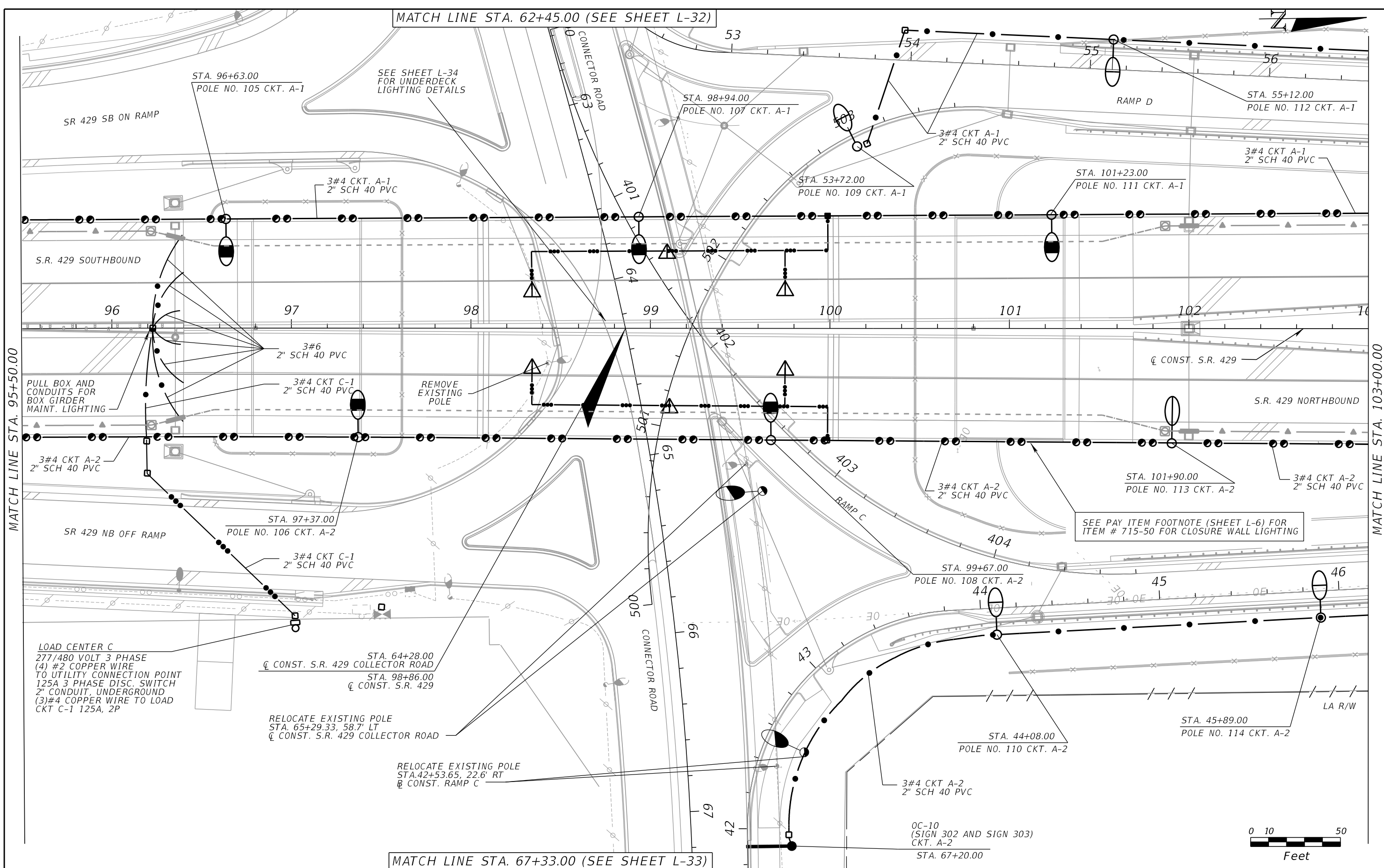
END PROJECT SECTION 429-201
 BEGIN PROJECT SECTION 429-202
 (NORTHBOUND CONSTRUCTION)
 STA. 92+51.56, \bar{C} CONST. S.R. 429

EXISTING SIGN STRUCTURE

MATCH LINE STA. 95+50.00

REVISIONS				Traffic Engineering Data Solutions, Inc.		CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CENTRAL FLORIDA EXPRESSWAY AUTHORITY	LIGHTING PLAN SHEET	SHEET NO. L-11
DATE	DESCRIPTION	DATE	DESCRIPTION	80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778		ROAD NO.	PROJECT NO.			
				CERTIFICATION OF AUTHORIZATION # 27392		SR 429	429-202			
				ENGINEER OF RECORD: FRED D. FERRELL, P.E. FL REGISTRATION NO. 41902						

MATCH LINE STA. 62+45.00 (SEE SHEET L-32)



MATCH LINE STA. 67+33.00 (SEE SHEET L-33)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

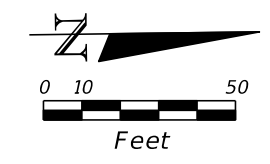
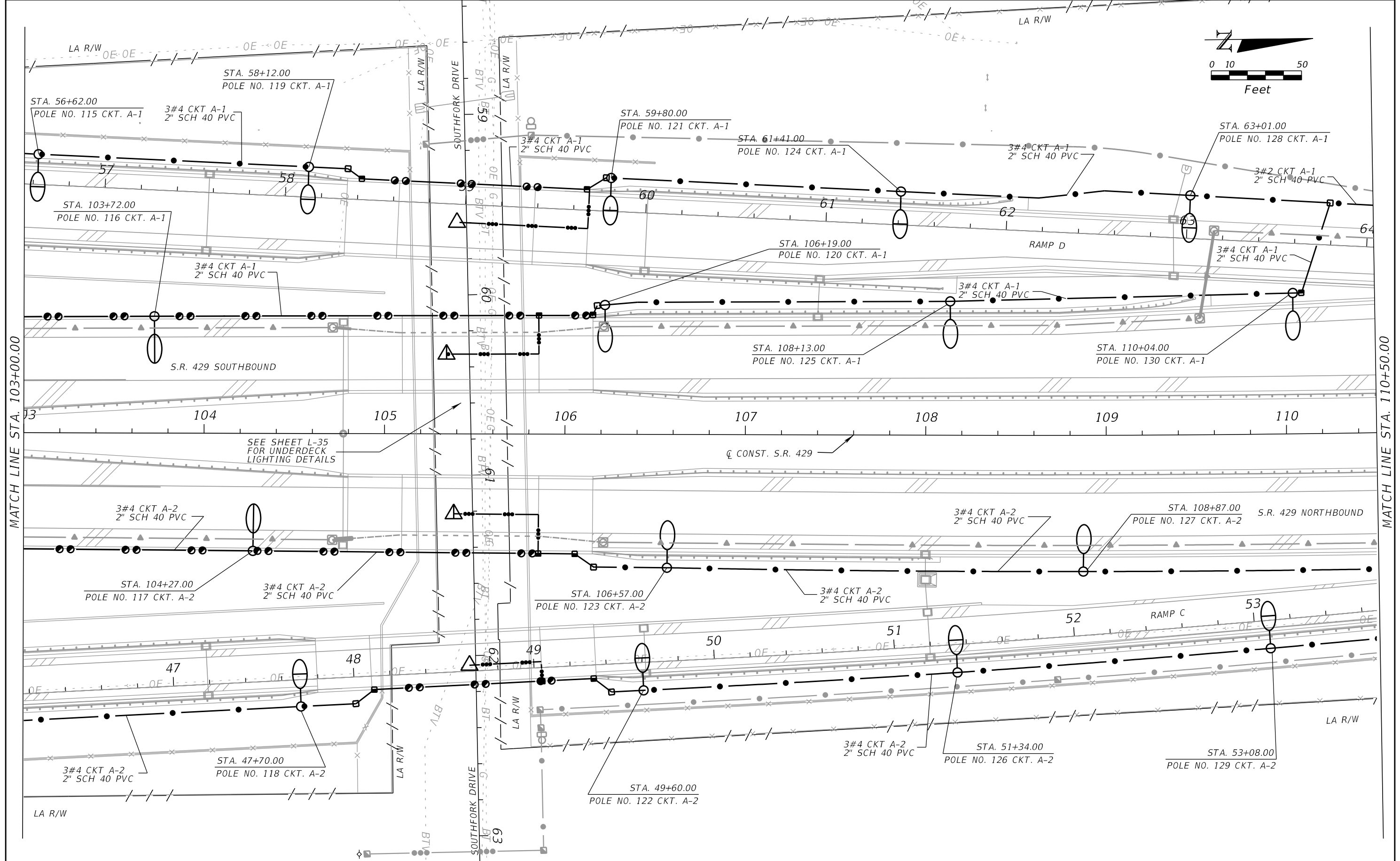
Traffic Engineering Data Solutions, Inc.
 80 Spring Vista Drive Phone: 386.753.0558
 DeBary, FL 32713 Fax: 386.753.0778
 CERTIFICATION OF AUTHORIZATION # 27392
 ENGINEER OF RECORD: FRED D. FERRELL, P.E
 FL REGISTRATION NO. 41902

CENTRAL FLORIDA EXPRESSWAY AUTHORITY
 ROAD NO. SR 429
 PROJECT NO. 429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

LIGHTING PLAN SHEET

SHEET NO. L-12



MATCH LINE STA. 103+00.00

MATCH LINE STA. 110+50.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

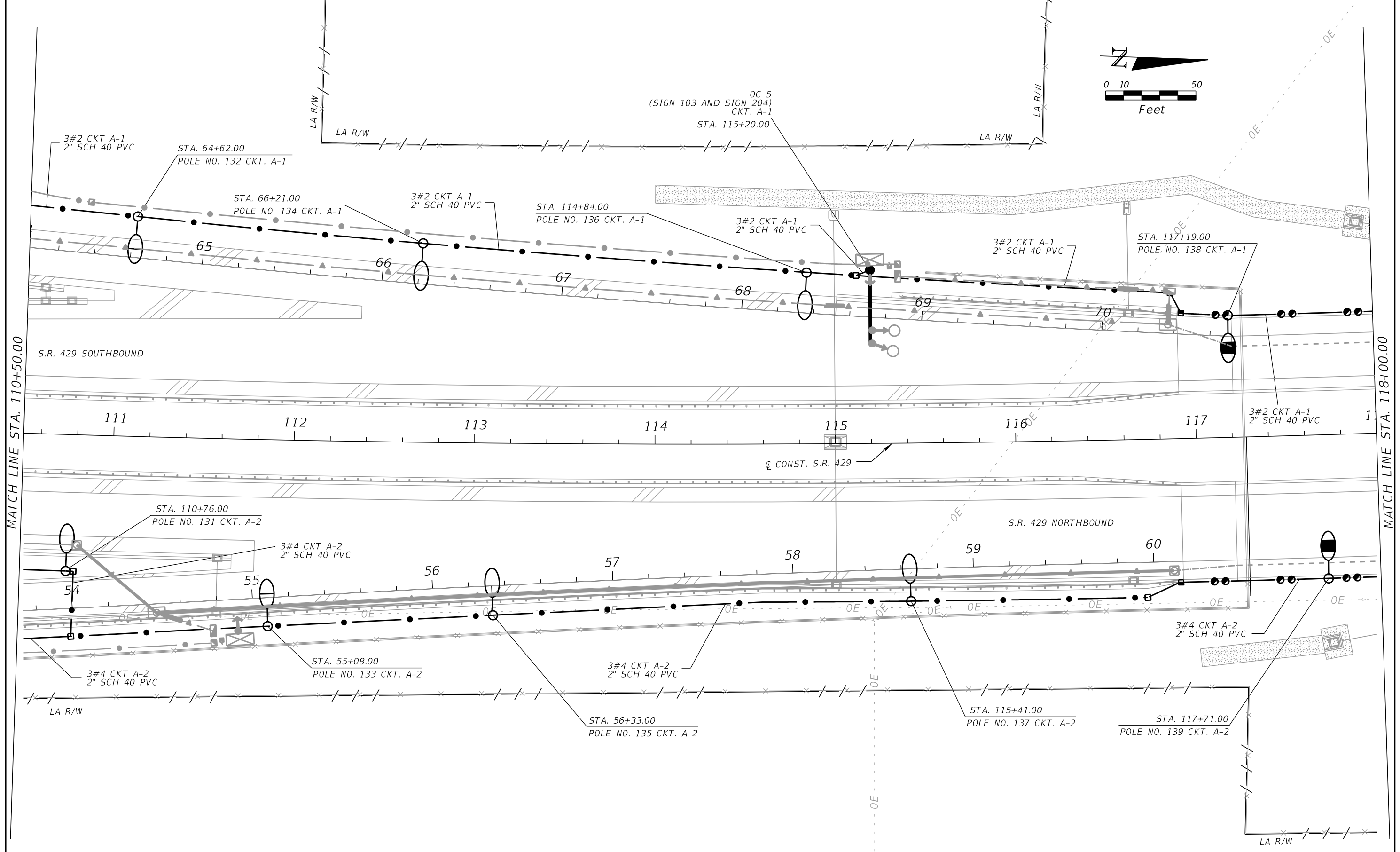
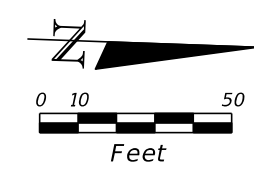
Traffic Engineering Data Solutions, Inc.
 80 Spring Vista Drive Phone: 386.753.0558
 DeBary, FL 32713 Fax: 386.753.0778
 CERTIFICATION OF AUTHORIZATION # 27392
 ENGINEER OF RECORD: FRED D. FERRELL, P.E.
 FL REGISTRATION NO. 41902

CENTRAL FLORIDA EXPRESSWAY AUTHORITY
 ROAD NO. SR 429 PROJECT NO. 429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

LIGHTING PLAN SHEET

SHEET NO. L-13



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

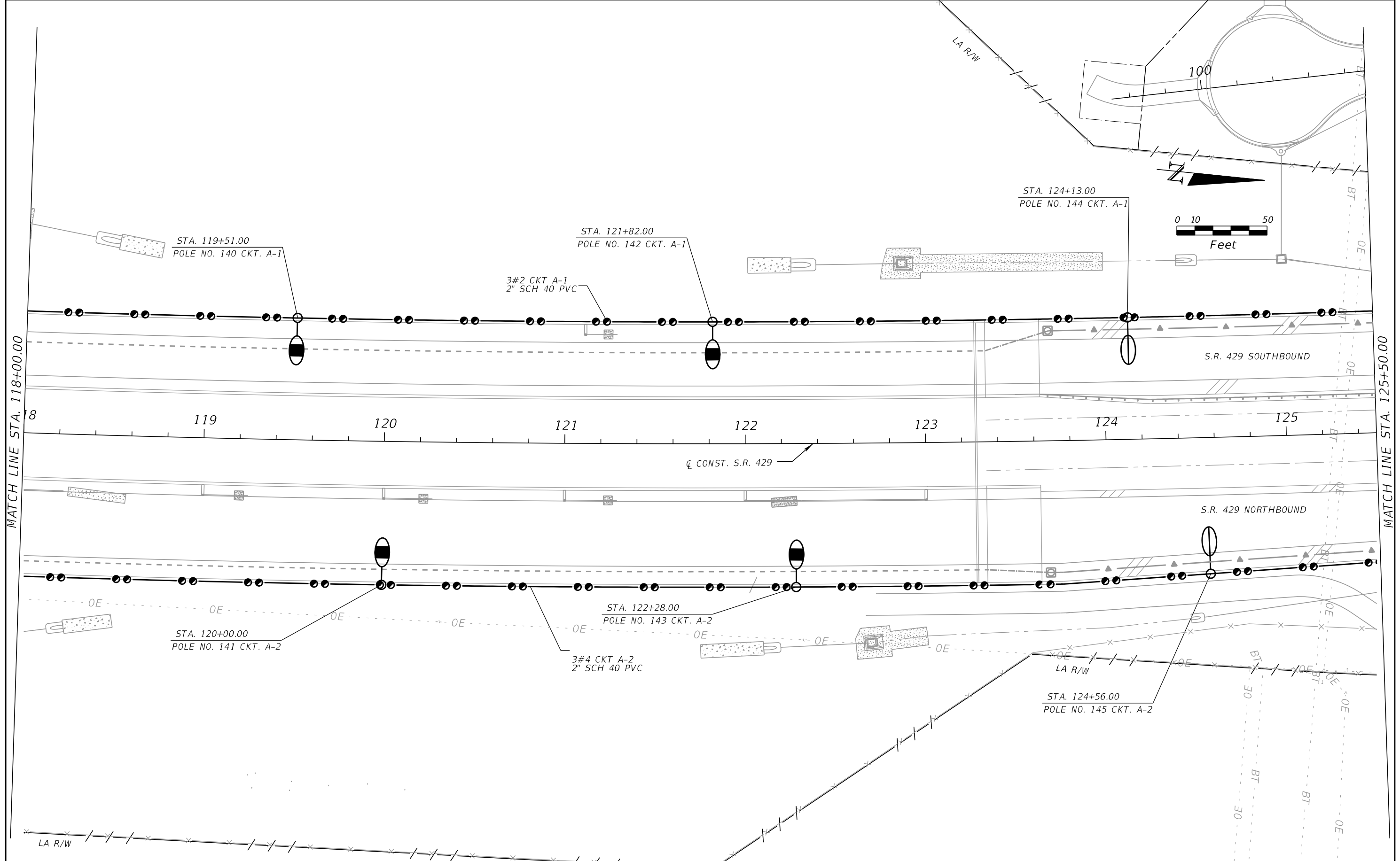
Traffic Engineering Data Solutions, Inc.
 80 Spring Vista Drive Phone: 386.753.0558
 DeBary, FL 32713 Fax: 386.753.0778
 CERTIFICATION OF AUTHORIZATION # 27392
 ENGINEER OF RECORD: FRED D. FERRELL, P.E
 FL REGISTRATION NO. 41902

CENTRAL FLORIDA EXPRESSWAY AUTHORITY
 ROAD NO. SR 429
 PROJECT NO. 429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

LIGHTING PLAN SHEET

SHEET NO. L-14



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

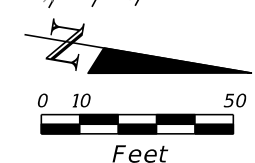
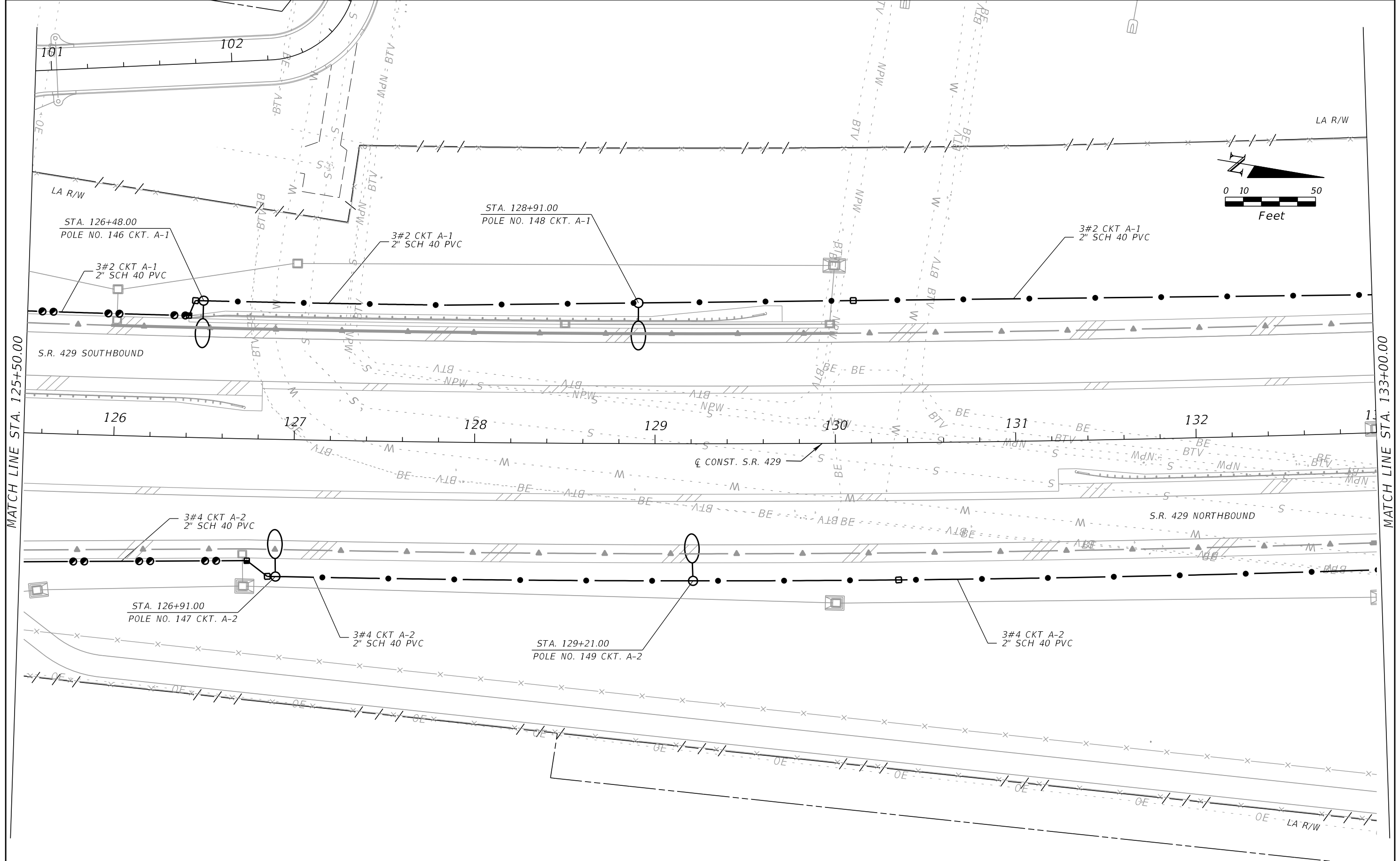
Traffic Engineering Data Solutions, Inc.
 80 Spring Vista Drive Phone: 386.753.0558
 DeBary, FL 32713 Fax: 386.753.0778
 CERTIFICATION OF AUTHORIZATION # 27392
 ENGINEER OF RECORD: FRED D. FERRELL, P.E.
 FL REGISTRATION NO. 41902

CENTRAL FLORIDA EXPRESSWAY AUTHORITY
 ROAD NO. SR 429
 PROJECT NO. 429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

LIGHTING PLAN SHEET

SHEET NO. L-15



MATCH LINE STA. 125+50.00

MATCH LINE STA. 133+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

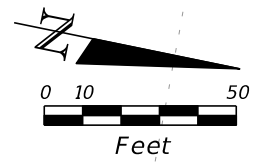
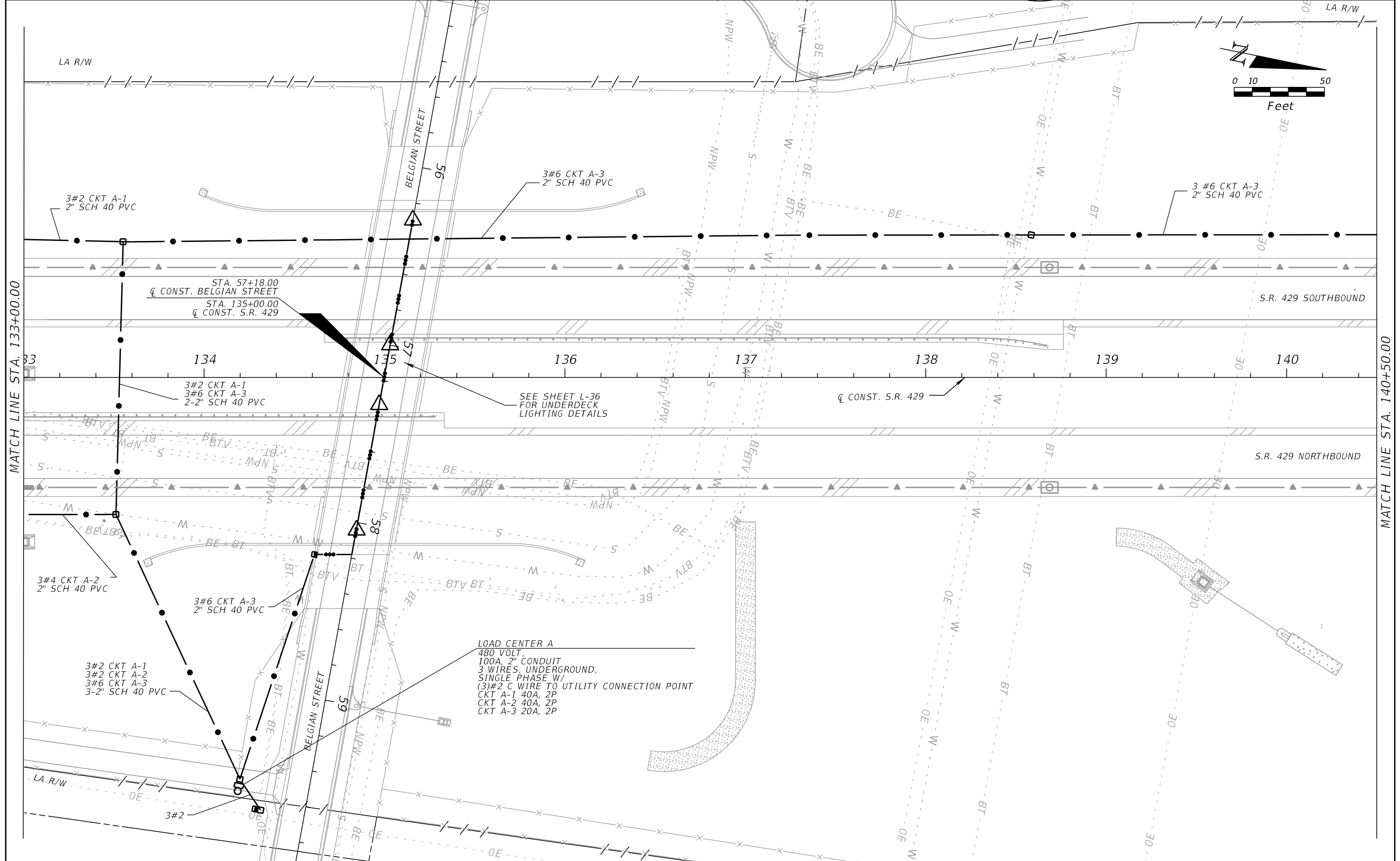
Traffic Engineering Data Solutions, Inc.
 80 Spring Vista Drive Phone: 386.753.0558
 DeBary, FL 32713 Fax: 386.753.0778
 CERTIFICATION OF AUTHORIZATION # 27392
 ENGINEER OF RECORD: FRED D. FERRELL, P.E.
 FL REGISTRATION NO. 41902

CENTRAL FLORIDA EXPRESSWAY AUTHORITY
 ROAD NO. SR 429
 PROJECT NO. 429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

LIGHTING PLAN SHEET

SHEET NO. L-16



MATCH LINE STA. 133+00.00

MATCH LINE STA. 140+50.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

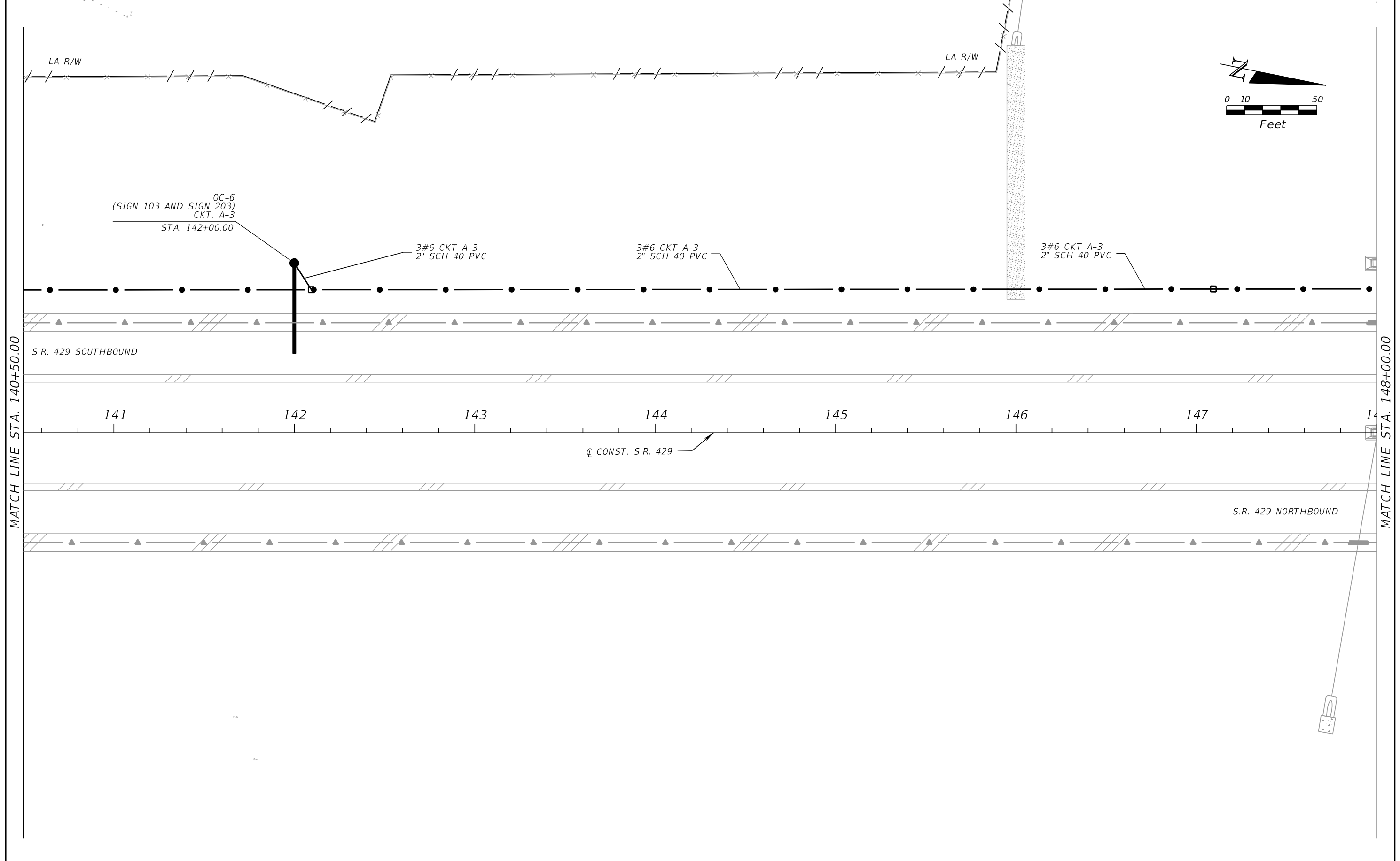
Traffic Engineering Data Solutions, Inc.
 80 Spring Vista Drive Phone: 386.753.0558
 DeBary, FL 32713 Fax: 386.753.0778
 CERTIFICATION OF AUTHORIZATION # 27392
 ENGINEER OF RECORD: FRED D. FERRELL, P.E.
 FL REGISTRATION NO. 41902

CENTRAL FLORIDA EXPRESSWAY AUTHORITY
 ROAD NO. SR 429
 PROJECT NO. 429-202

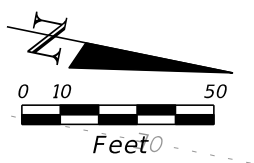
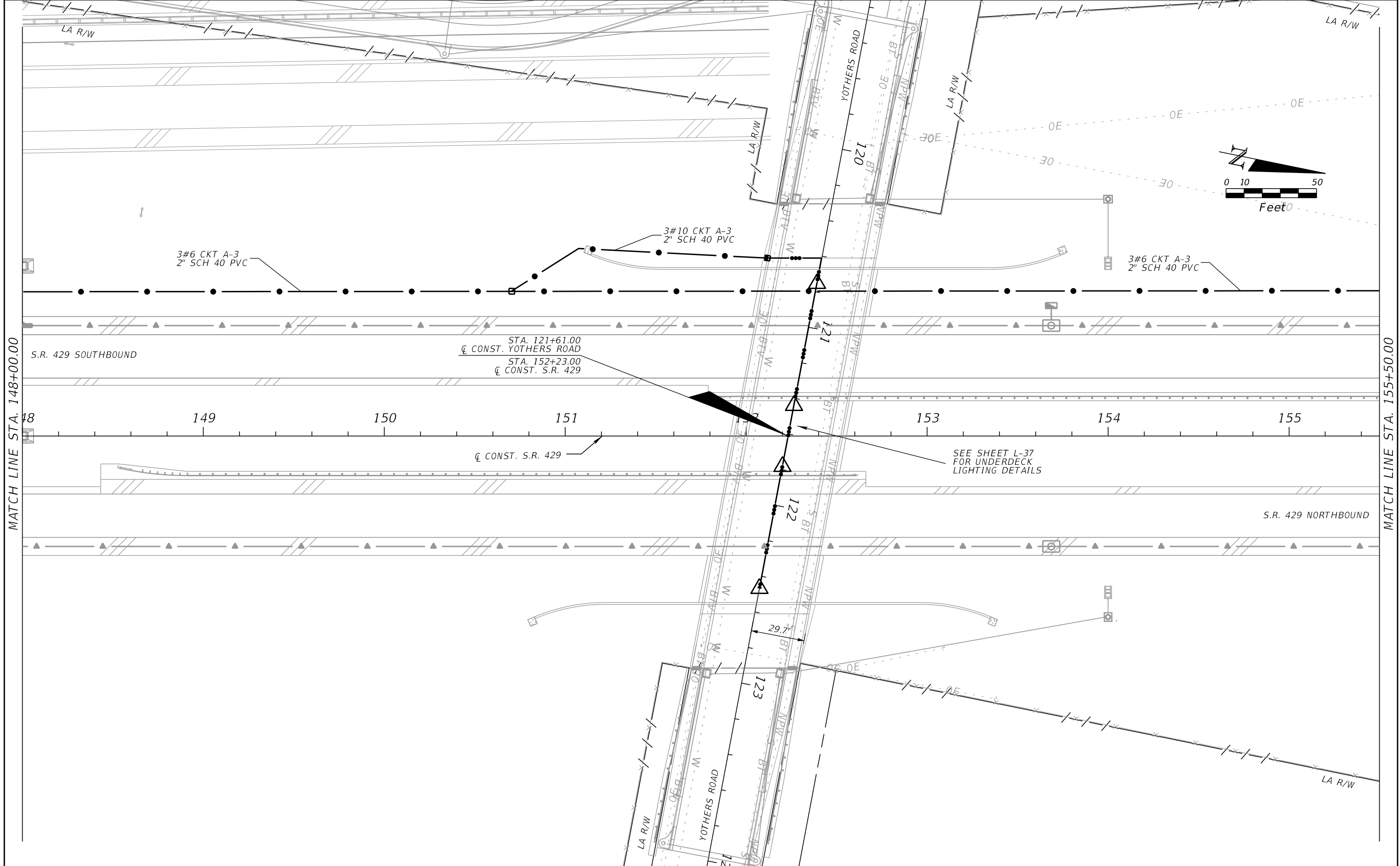
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

LIGHTING PLAN SHEET

SHEET NO. L-17



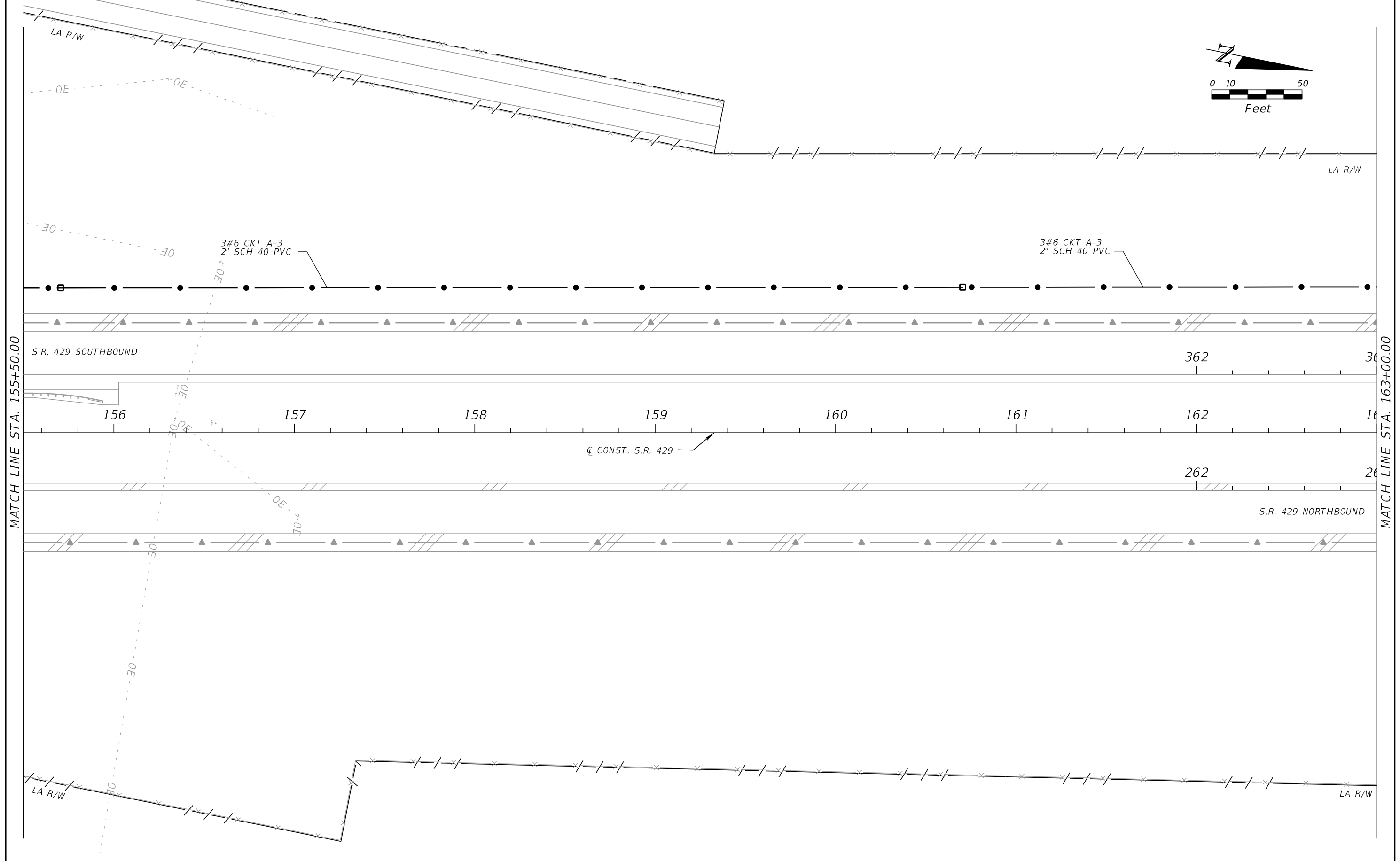
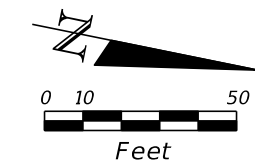
REVISIONS				<i>Traffic Engineering Data Solutions, Inc.</i> 80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778 CERTIFICATION OF AUTHORIZATION # 27392	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CENTRAL FLORIDA EXPRESSWAY AUTHORITY	<i>LIGHTING PLAN SHEET</i>	SHEET NO. L-18
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT NO.			
				ENGINEER OF RECORD: FRED D. FERRELL, P.E. FL REGISTRATION NO. 41902	SR 429	429-202			



MATCH LINE STA. 148+00.00

MATCH LINE STA. 155+50.00

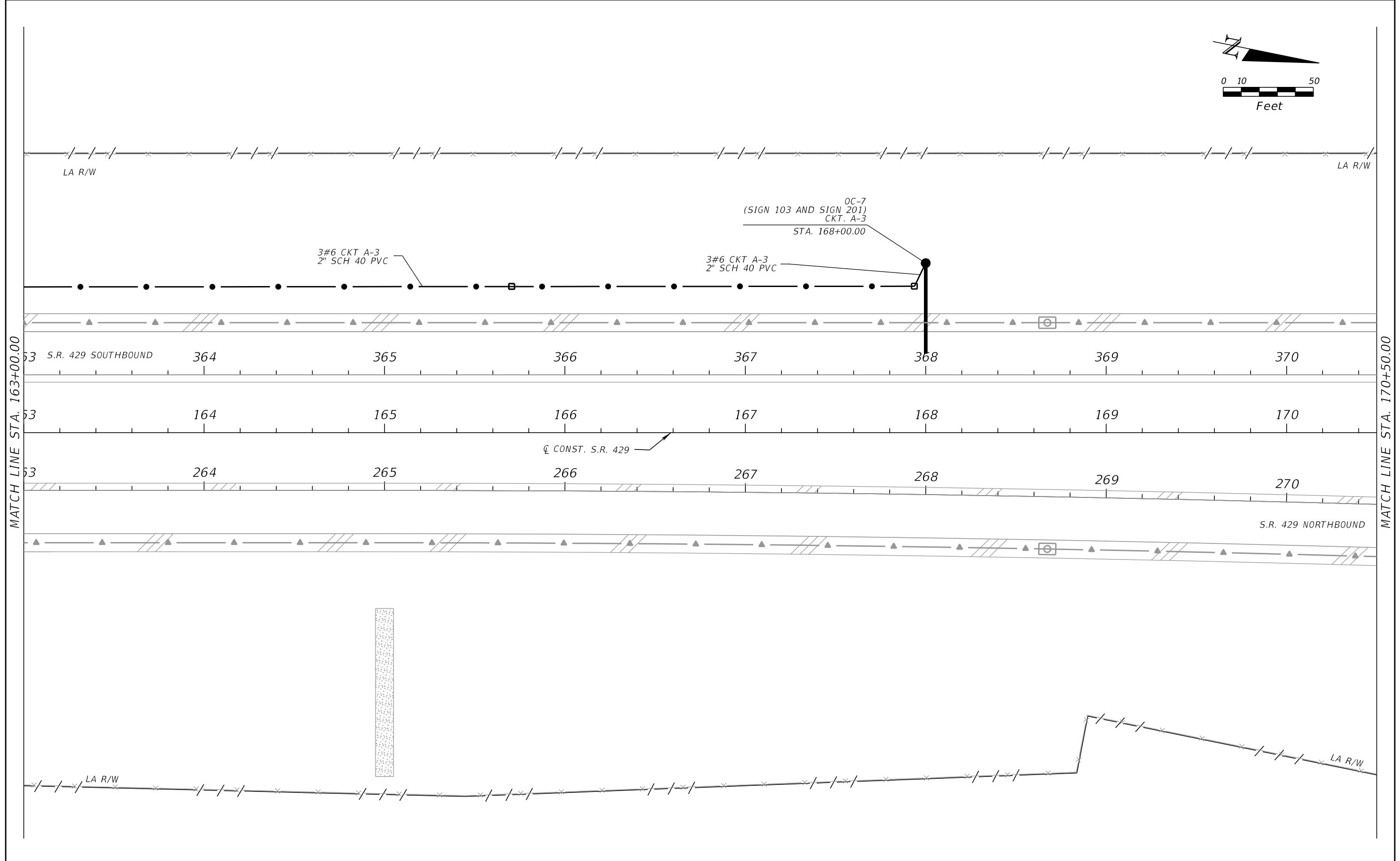
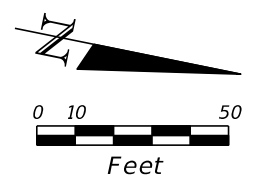
REVISIONS				Traffic Engineering Data Solutions, Inc. <small>80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778</small> CERTIFICATION OF AUTHORIZATION # 27392 ENGINEER OF RECORD: FRED D. FERRELL, P.E FL REGISTRATION NO. 41902	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CENTRAL FLORIDA EXPRESSWAY AUTHORITY	LIGHTING PLAN SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT NO.			L-19
					SR 429	429-202			



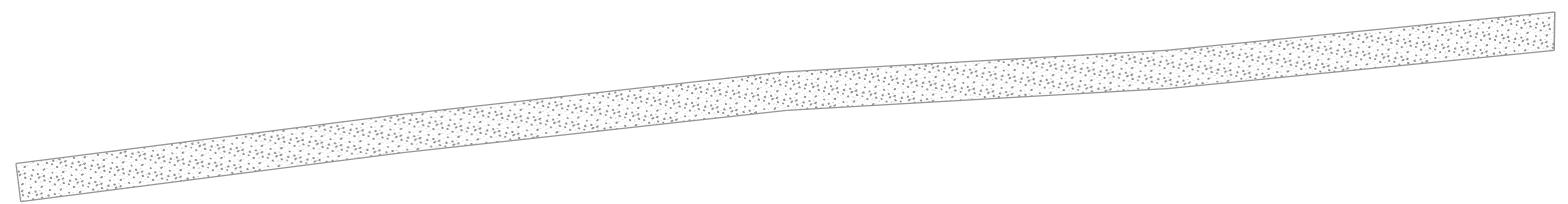
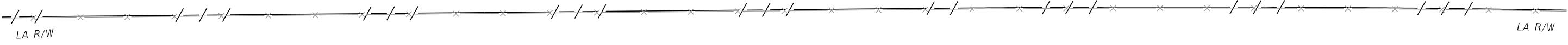
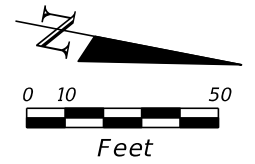
MATCH LINE STA. 155+50.00

MATCH LINE STA. 163+00.00

REVISIONS				<i>Traffic Engineering Data Solutions, Inc.</i> <small>80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778</small> CERTIFICATION OF AUTHORIZATION # 27392	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CENTRAL FLORIDA EXPRESSWAY AUTHORITY	LIGHTING PLAN SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT NO.			L-20
				<small>ENGINEER OF RECORD: FRED D. FERRELL, P.E FL REGISTRATION NO. 41902</small>	SR 429	429-202			



REVISIONS				<i>Traffic Engineering Data Solutions, Inc.</i> 80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778 CERTIFICATION OF AUTHORIZATION # 27392	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CENTRAL FLORIDA EXPRESSWAY AUTHORITY	LIGHTING PLAN SHEET	SHEET NO. L-21
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT NO.			
				ENGINEER OF RECORD: FRED D. FERRELL, P.E. FL REGISTRATION NO. 41902	SR 429	429-202			

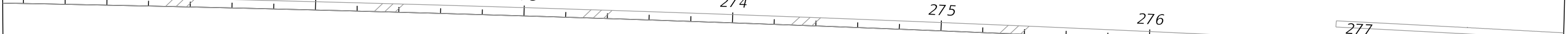


371 S.R. 429 SOUTHBOUND 372 373 374 375 376 377 378

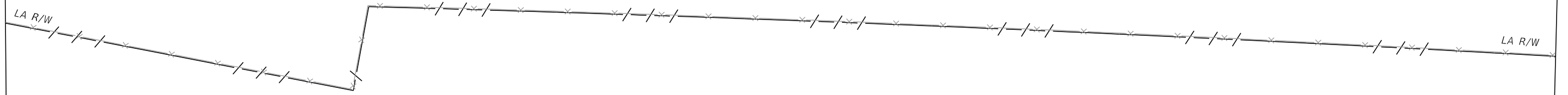
171 172 173 174 175 176 177 178

☐ CONST. S.R. 429

271 272 273 274 275 276 277 278



S.R. 429 NORTHBOUND

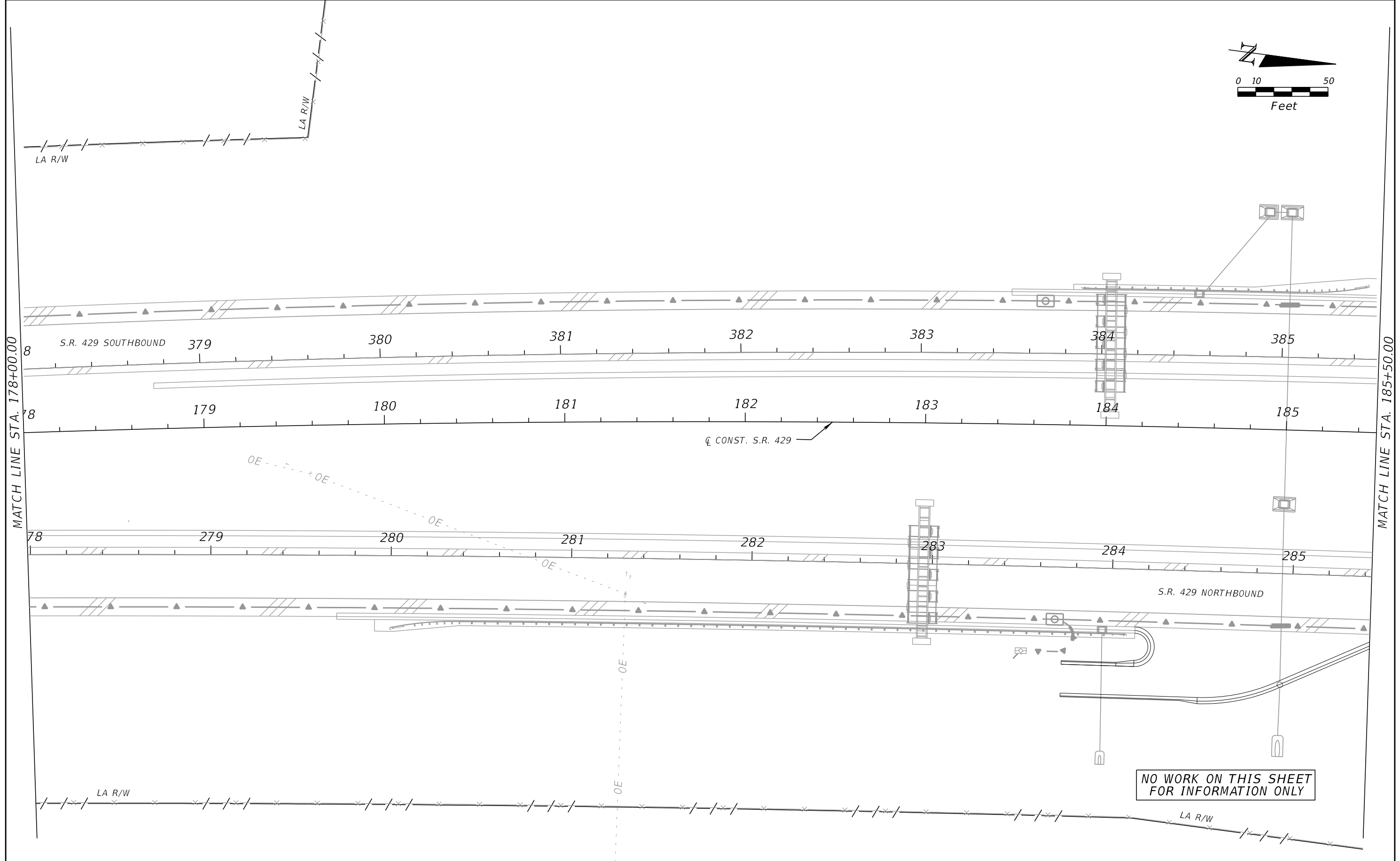
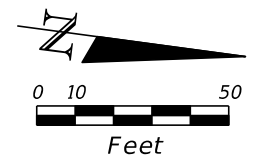


NO WORK ON THIS SHEET
FOR INFORMATION ONLY

MATCH LINE STA. 170+50.00

MATCH LINE STA. 178+00.00

REVISIONS				<i>Traffic Engineering Data Solutions, Inc.</i> <small>80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778</small> CERTIFICATION OF AUTHORIZATION # 27392	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CENTRAL FLORIDA EXPRESSWAY AUTHORITY	LIGHTING PLAN SHEET	SHEET NO. L-22
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT NO.			
				ENGINEER OF RECORD: FRED D. FERRELL, P.E. FL REGISTRATION NO. 41902	SR 429	429-202			



NO WORK ON THIS SHEET
FOR INFORMATION ONLY

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

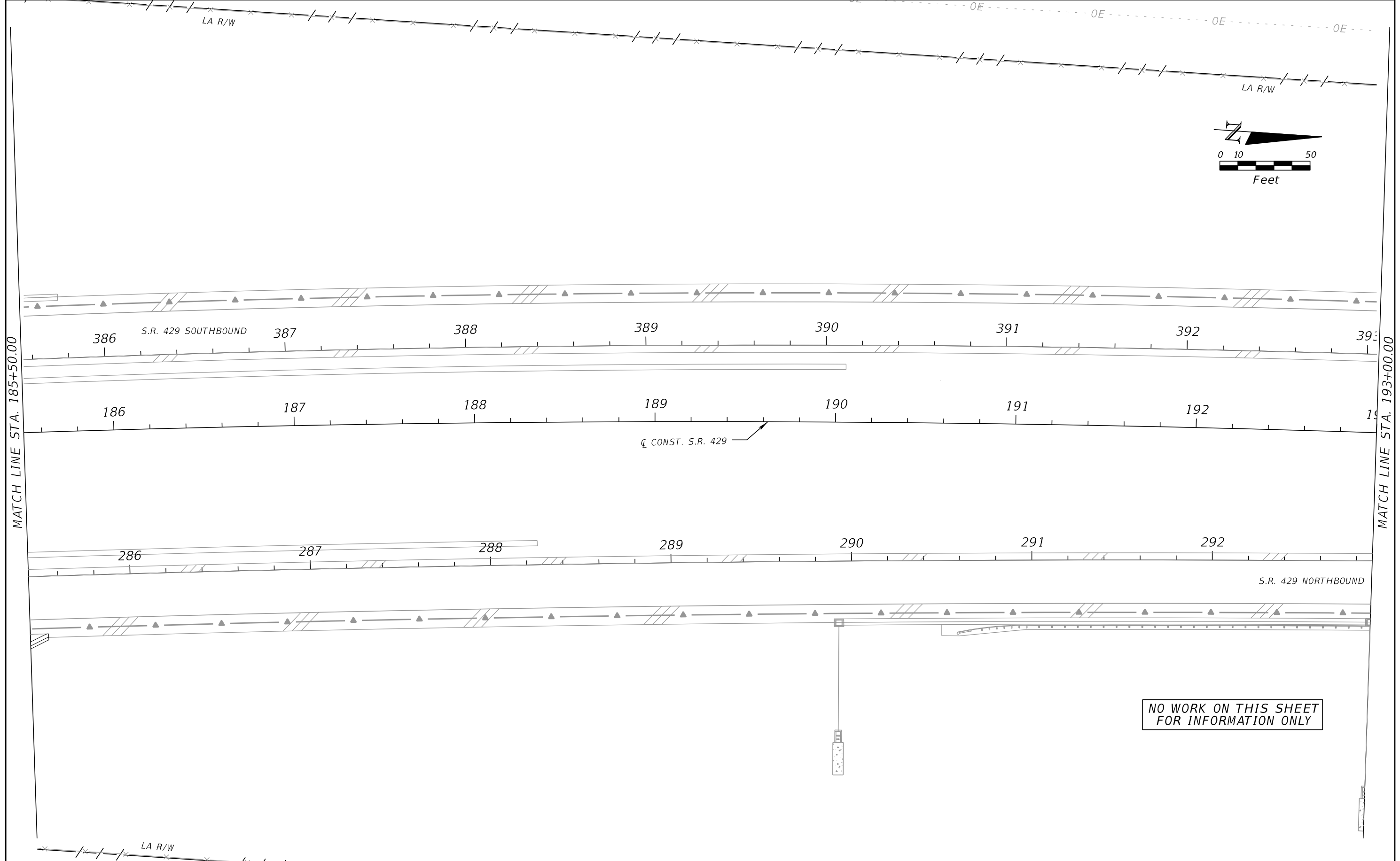
Traffic Engineering Data Solutions, Inc.
 80 Spring Vista Drive Phone: 386.753.0558
 DeBary, FL 32713 Fax: 386.753.0778
 CERTIFICATION OF AUTHORIZATION # 27392
 ENGINEER OF RECORD: FRED D. FERRELL, P.E.
 FL REGISTRATION NO. 41902

CENTRAL FLORIDA EXPRESSWAY AUTHORITY
 ROAD NO. SR 429
 PROJECT NO. 429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

LIGHTING PLAN SHEET

SHEET NO. L-23



MATCH LINE STA. 185+50.00

MATCH LINE STA. 193+00.00

NO WORK ON THIS SHEET
FOR INFORMATION ONLY

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Traffic Engineering Data Solutions, Inc.
 80 Spring Vista Drive Phone: 386.753.0558
 DeBary, FL 32713 Fax: 386.753.0778
 CERTIFICATION OF AUTHORIZATION # 27392
 ENGINEER OF RECORD: FRED D. FERRELL, P.E.
 FL REGISTRATION NO. 41902

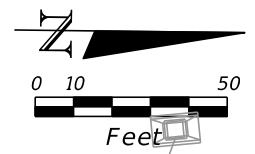
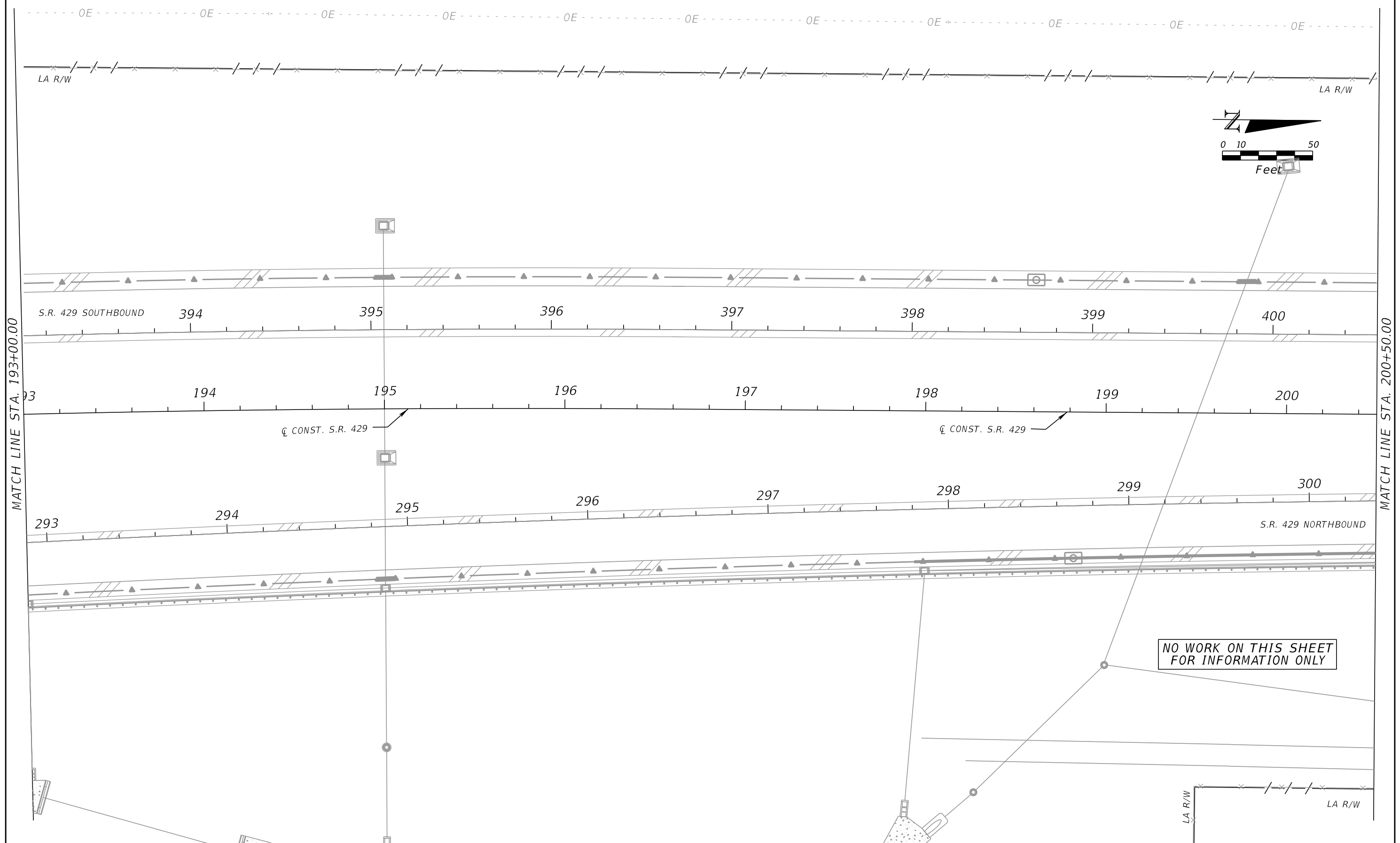
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

ROAD NO.	PROJECT NO.
SR 429	429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

LIGHTING PLAN SHEET

SHEET NO.
L-24



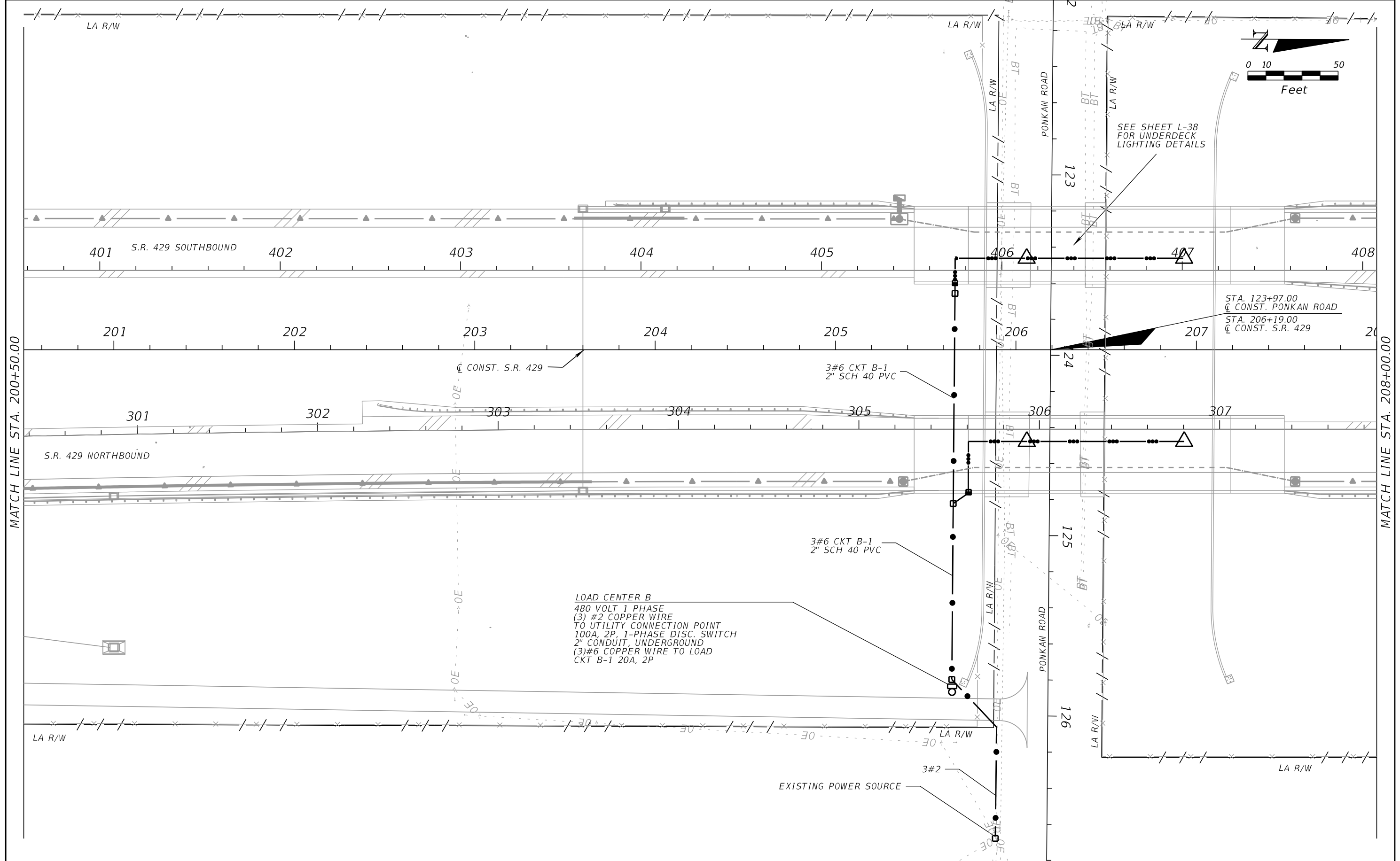
MATCH LINE STA. 193+00.00

MATCH LINE STA. 200+50.00

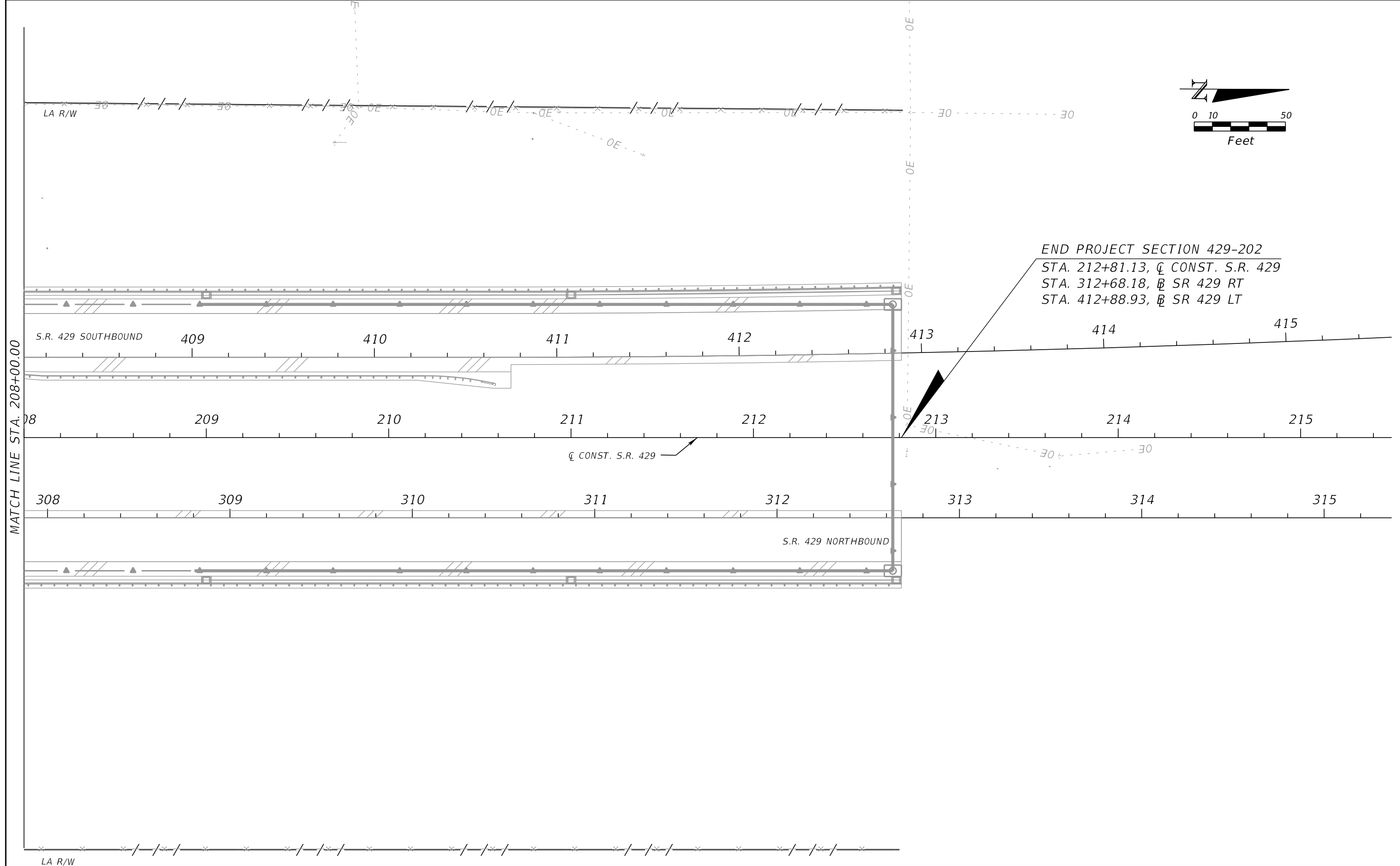
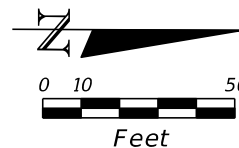
NO WORK ON THIS SHEET
FOR INFORMATION ONLY

REVISIONS		Traffic Engineering Data Solutions, Inc.		CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CENTRAL FLORIDA EXPRESSWAY AUTHORITY	LIGHTING PLAN SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	PROJECT NO.			
				SR 429	429-202			

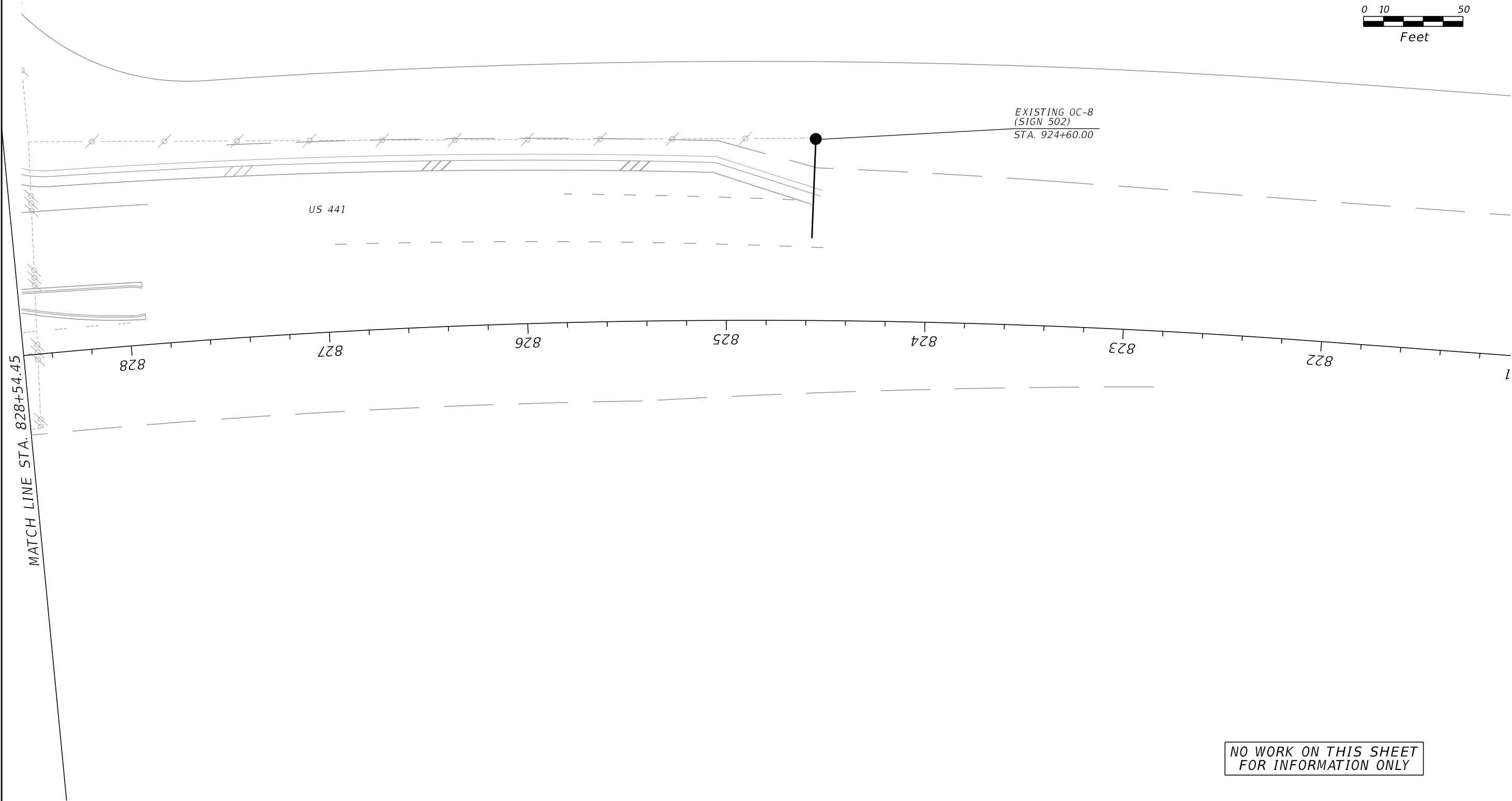
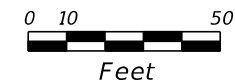
80 Spring Vista Drive Phone: 386.753.0558
DeBary, FL 32713 Fax: 386.753.0778
CERTIFICATION OF AUTHORIZATION # 27392
ENGINEER OF RECORD: FRED D. FERRELL, P.E
FL REGISTRATION NO. 41902



REVISIONS				Traffic Engineering Data Solutions, Inc. 80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778 CERTIFICATION OF AUTHORIZATION # 27392	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CENTRAL FLORIDA EXPRESSWAY AUTHORITY	LIGHTING PLAN SHEET	SHEET NO. L-26
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT NO.			
				ENGINEER OF RECORD: FRED D. FERRELL, P.E. FL REGISTRATION NO. 41902	SR 429	429-202			



REVISIONS				<i>Traffic Engineering Data Solutions, Inc.</i> <small>80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778</small> CERTIFICATION OF AUTHORIZATION # 27392	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CENTRAL FLORIDA EXPRESSWAY AUTHORITY	<i>LIGHTING PLAN SHEET</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT NO.			L-27
				ENGINEER OF RECORD: FRED D. FERRELL, P.E. FL REGISTRATION NO. 41902	SR 429	429-202			

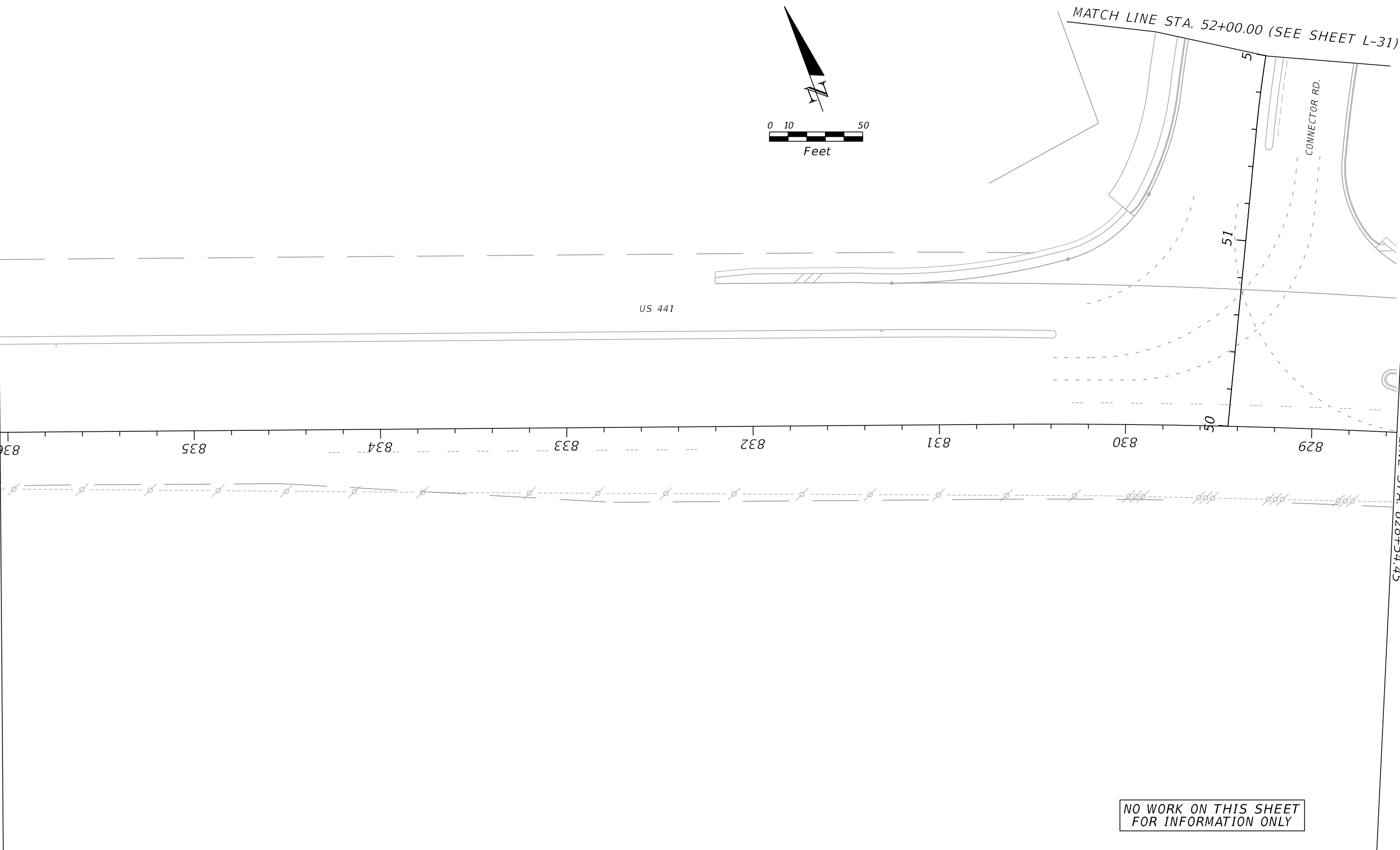
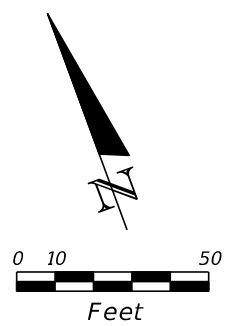


NO WORK ON THIS SHEET
FOR INFORMATION ONLY

REVISIONS				<i>Traffic Engineering Data Solutions, Inc.</i> 80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778 CERTIFICATION OF AUTHORIZATION # 27392	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CENTRAL FLORIDA EXPRESSWAY AUTHORITY	<i>LIGHTING PLAN SHEET</i>	SHEET NO. L-28
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT NO.			
				ENGINEER OF RECORD: FRED D. FERRELL, P.E. FL REGISTRATION NO. 41902	SR 429	429-202			

MATCH LINE STA. 836+04.45

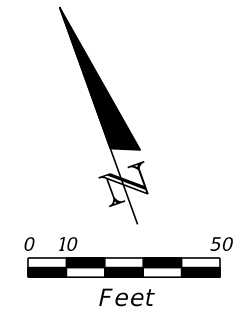
MATCH LINE STA. 52+00.00 (SEE SHEET L-31)



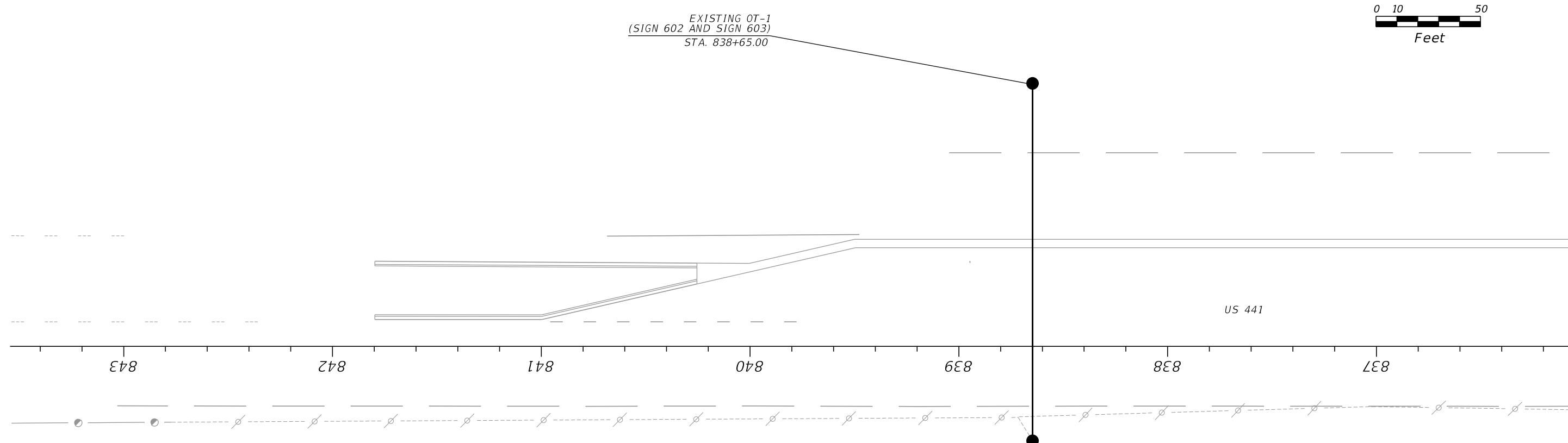
MATCH LINE STA. 828+54.45

NO WORK ON THIS SHEET
FOR INFORMATION ONLY

REVISIONS				<i>Traffic Engineering Data Solutions, Inc.</i> 80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778 CERTIFICATION OF AUTHORIZATION # 27392	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CENTRAL FLORIDA EXPRESSWAY AUTHORITY	LIGHTING PLAN SHEET	SHEET NO. L-29
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT NO.			
				ENGINEER OF RECORD: FRED D. FERRELL, P.E FL REGISTRATION NO. 41902	SR 429	429-202			



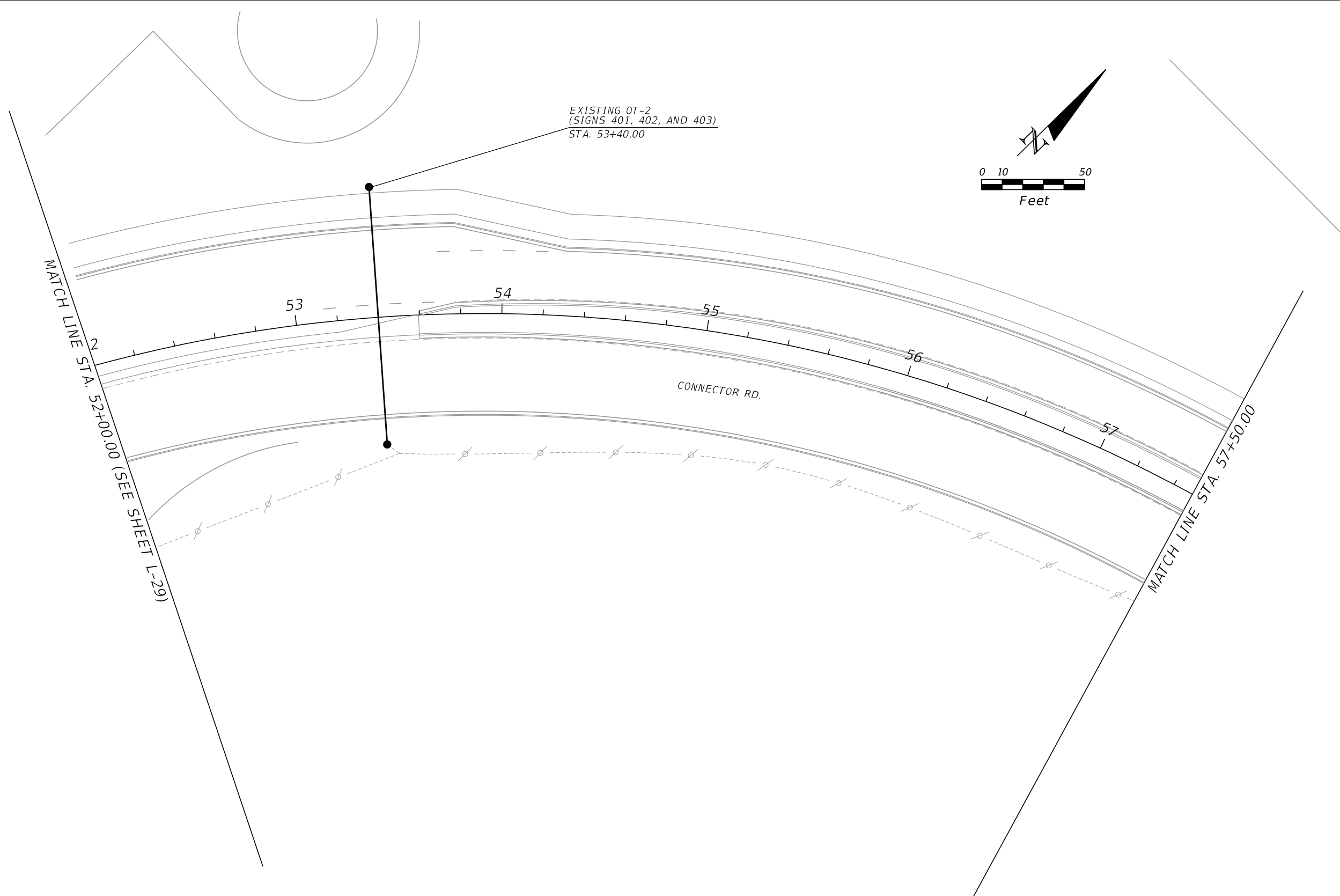
EXISTING OT-1
(SIGN 602 AND SIGN 603)
STA. 838+65.00



MATCH LINE STA. 836+04.45

NO WORK ON THIS SHEET
FOR INFORMATION ONLY

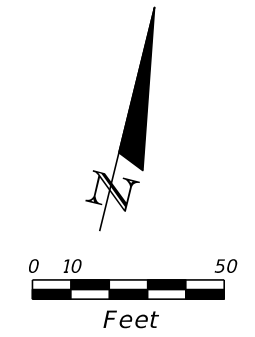
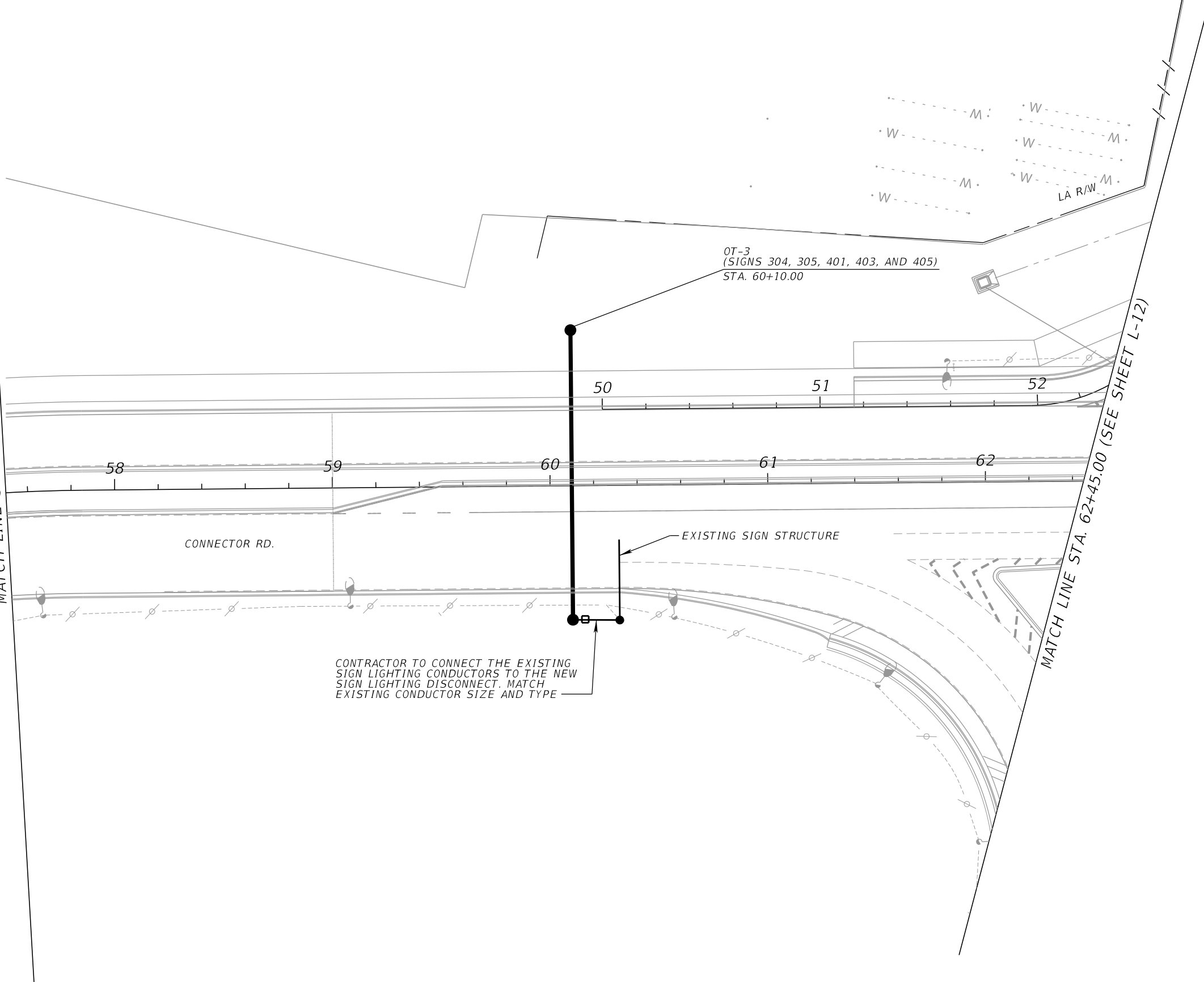
REVISIONS				<i>Traffic Engineering Data Solutions, Inc.</i> <small>80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778</small> CERTIFICATION OF AUTHORIZATION # 27392	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CENTRAL FLORIDA EXPRESSWAY AUTHORITY	LIGHTING PLAN SHEET	SHEET NO. L-30
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT NO.			
				ENGINEER OF RECORD: FRED D. FERRELL, P.E. FL REGISTRATION NO. 41902	SR 429	429-202			



NO WORK ON THIS SHEET
FOR INFORMATION ONLY

REVISIONS				<i>Traffic Engineering Data Solutions, Inc.</i> 80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778 CERTIFICATION OF AUTHORIZATION # 27392	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CENTRAL FLORIDA EXPRESSWAY AUTHORITY	<i>LIGHTING PLAN SHEET</i>	SHEET NO. L-31
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT NO.			
				ENGINEER OF RECORD: FRED D. FERRELL, P.E. FL REGISTRATION NO. 41902	SR 429	429-202			

MATCH LINE STA. 57+50.00



MATCH LINE STA. 62+45.00 (SEE SHEET L-12)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

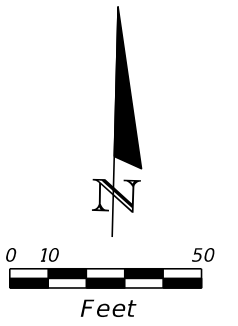
Traffic Engineering Data Solutions, Inc.
 80 Spring Vista Drive Phone: 386.753.0558
 DeBary, FL 32713 Fax: 386.753.0778
 CERTIFICATION OF AUTHORIZATION # 27392
 ENGINEER OF RECORD: FRED D. FERRELL, P.E.
 FL REGISTRATION NO. 41902

CENTRAL FLORIDA EXPRESSWAY AUTHORITY
 ROAD NO. SR 429
 PROJECT NO. 429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

LIGHTING PLAN SHEET

SHEET NO.
L-32

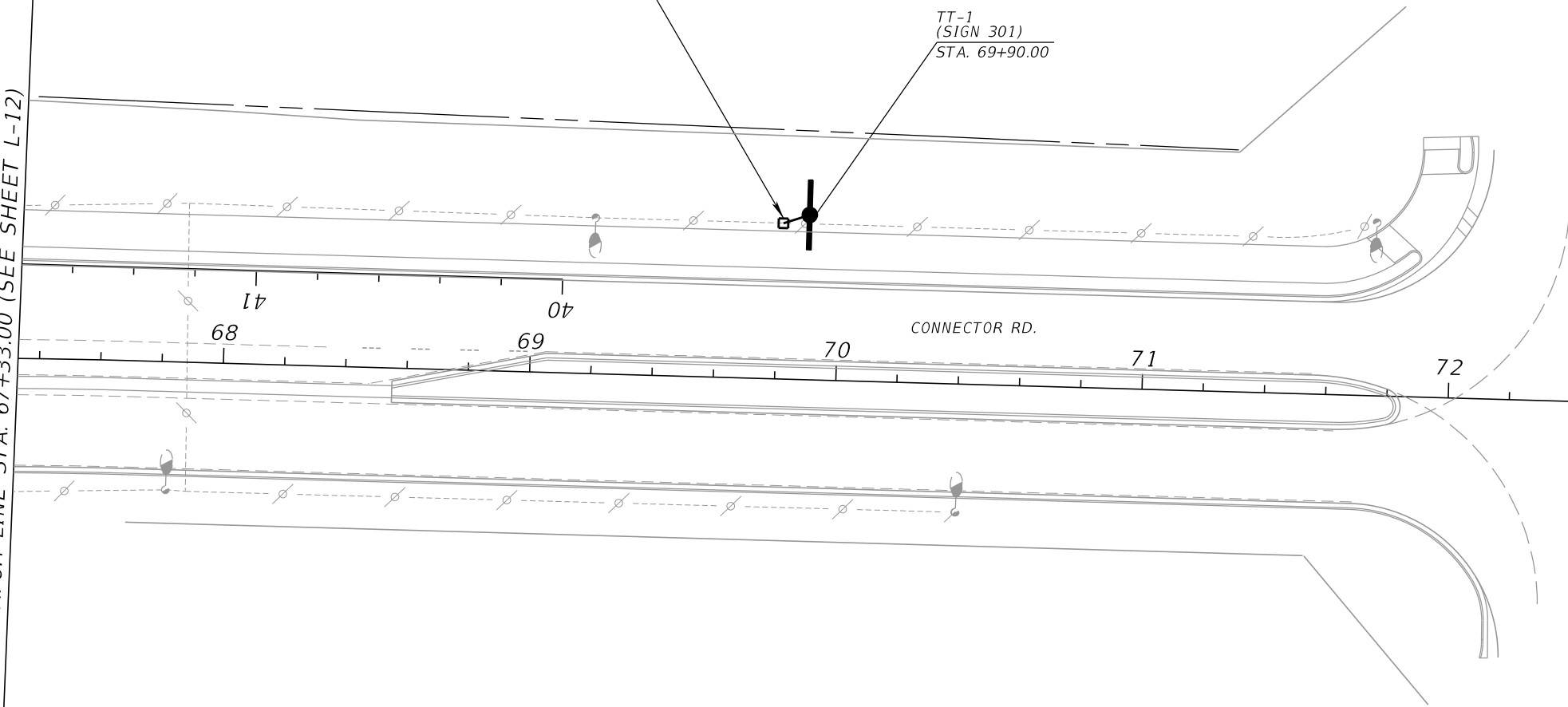


CR 437 PLYMOUTH SORRENTO RD.

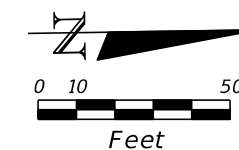
CONTRACTOR TO CONNECT THE EXISTING
SIGN LIGHTING CONDUCTORS TO THE NEW
SIGN LIGHTING DISCONNECT. MATCH
EXISTING CONDUCTOR SIZE AND TYPE

TT-1
(SIGN 301)
STA. 69+90.00

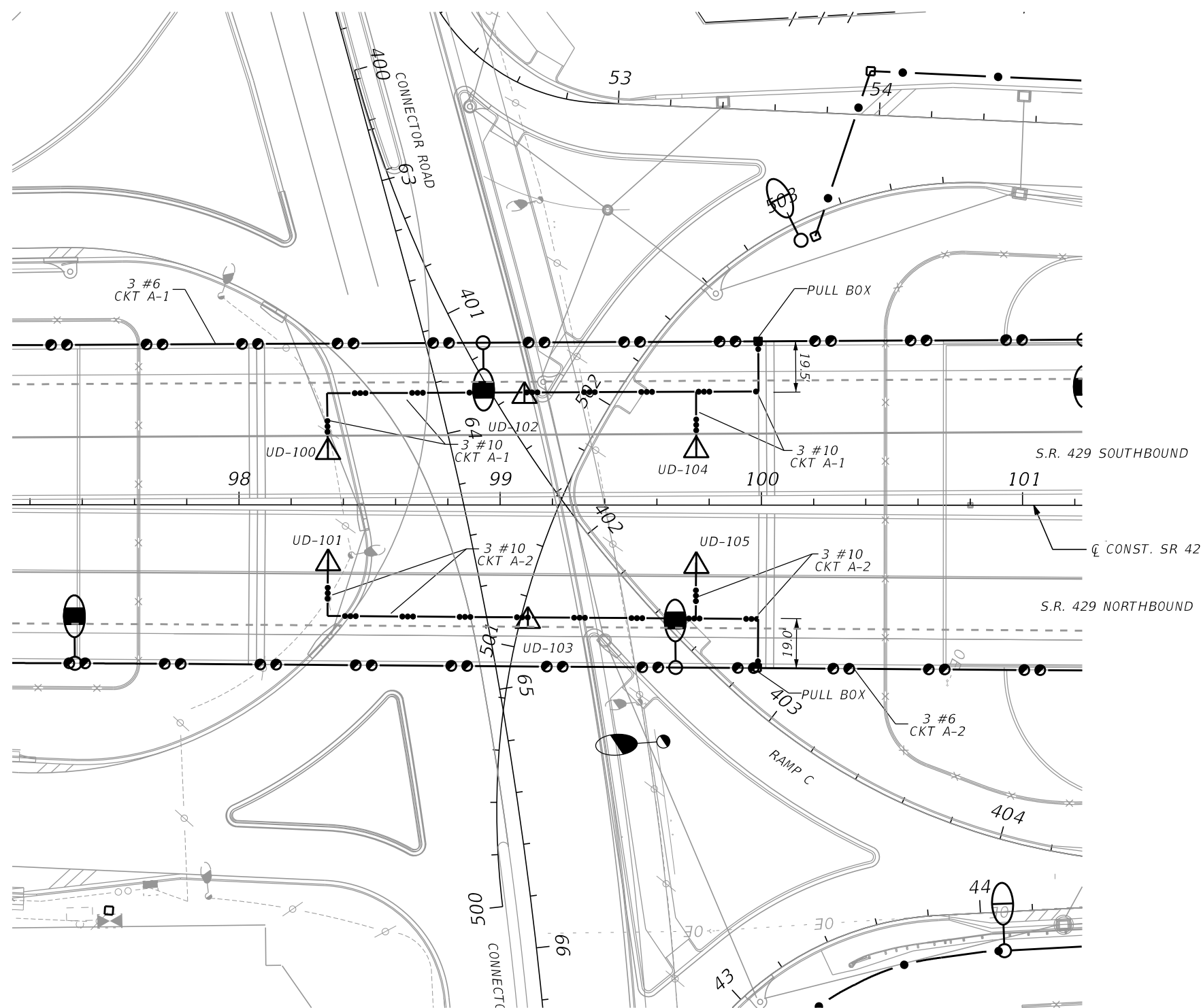
MATCH LINE STA. 67+33.00 (SEE SHEET L-12)



REVISIONS				<i>Traffic Engineering Data Solutions, Inc.</i> <small>80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778</small> CERTIFICATION OF AUTHORIZATION # 27392	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CENTRAL FLORIDA EXPRESSWAY AUTHORITY	LIGHTING PLAN SHEET	SHEET NO. L-33
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT NO.			
				ENGINEER OF RECORD: FRED D. FERRELL, P.E. FL REGISTRATION NO. 41902	SR 429	429-202			

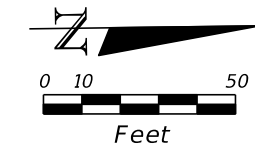


UNDERDECK LUMINAIRES		
LUM. NO.	STATION AND OFFSET	CIRCUIT
UD-100	98+34.0, 21.6' LT	A-1
UD-101	98+34.0, 21.0' RT	A-2
UD-102	99+10.0, 43.0' LT	A-1
UD-103	99+10.0, 43.0' RT	A-2
UD-104	99+75.0, 22.3' LT	A-1
UD-105	99+75.0, 22.0' RT	A-2

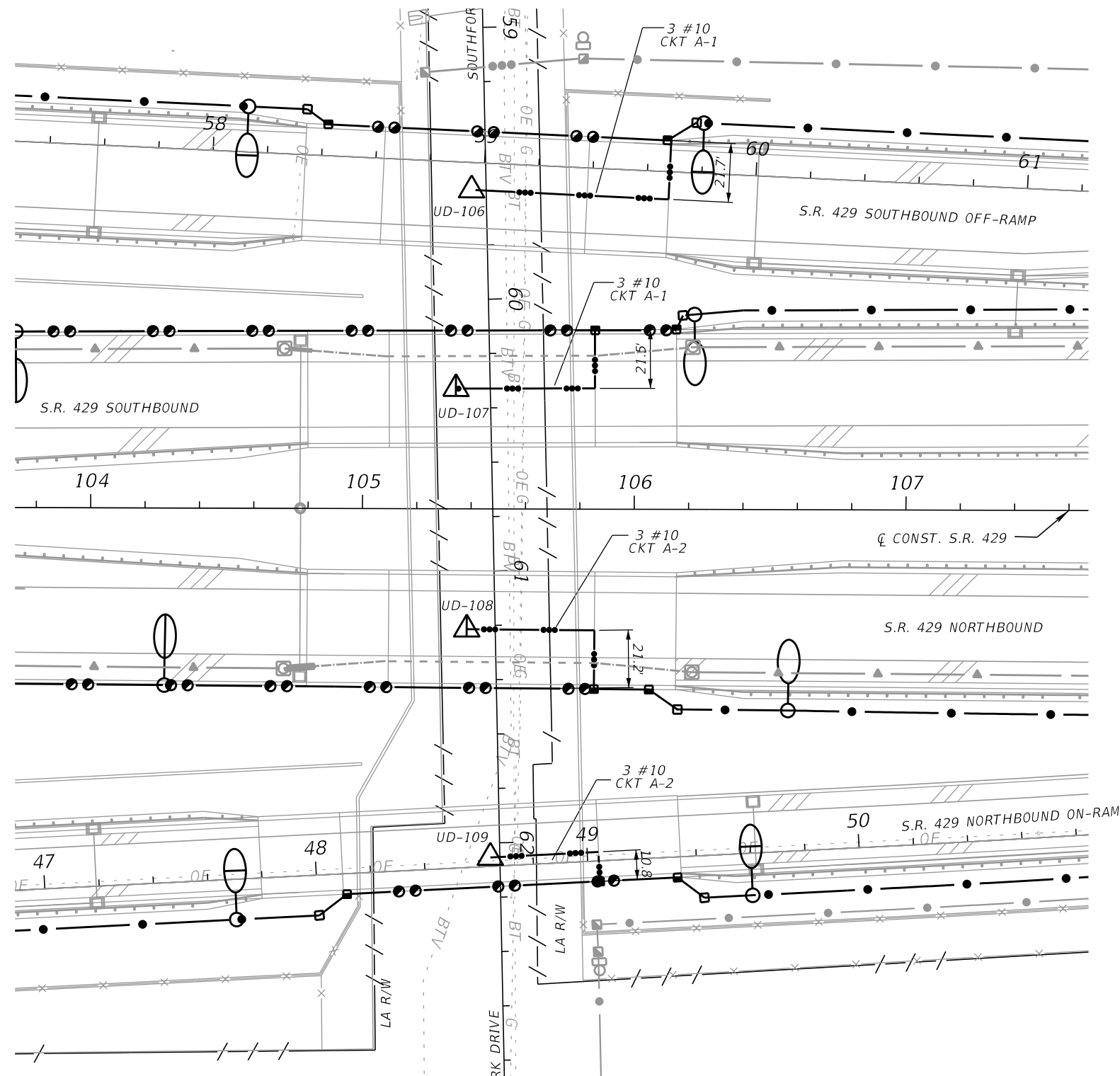


S.R. 429 OVER US 441 CONNECTOR ROAD

REVISIONS		Traffic Engineering Data Solutions, Inc. 80 Spring Vista Drive DeBary, FL 32713 Phone: 386.753.0558 Fax: 386.753.0778 CERTIFICATION OF AUTHORIZATION # 27392	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CENTRAL FLORIDA EXPRESSWAY AUTHORITY	UNDERDECK LIGHTING PLAN SHEET US 441 CONNECTOR ROAD	SHEET NO. L-34
DATE	DESCRIPTION		ROAD NO.	PROJECT NO.			
		ENGINEER OF RECORD: FRED D. FERRELL, P.E. FL REGISTRATION NO. 41902	SR 429	429-202			

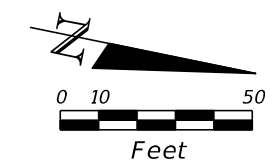


UNDERDECK LUMINAIRES		
LUM. NO.	STATION AND OFFSET	CIRCUIT
UD-106	105+40.0, 117.3' LT	A-1
UD-107	105+35.0, 44.2' LT	A-1
UD-108	105+38.5, 44.3' RT	A-2
UD-109	105+47.5, 129.7' RT	A-2

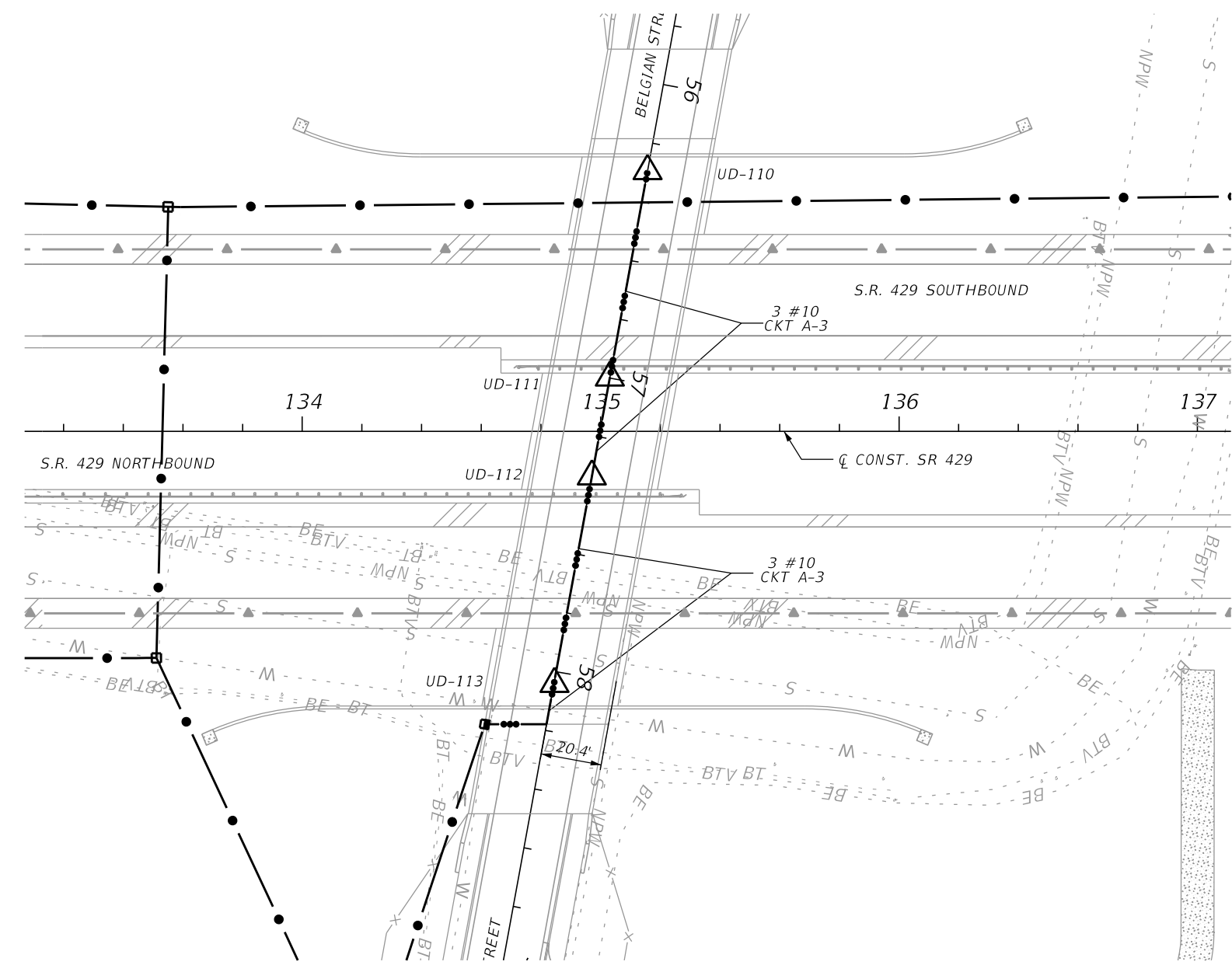


S.R. 429 OVER SOUTHFORK DRIVE

REVISIONS				Traffic Engineering Data Solutions, Inc. 80 Spring Vista Drive DeBary, FL 32713 Phone: 386.753.0558 Fax: 386.753.0778 CERTIFICATION OF AUTHORIZATION # 27392	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CENTRAL FLORIDA EXPRESSWAY AUTHORITY	UNDERDECK LIGHTING PLAN SHEET SOUTHFORK DRIVE	SHEET NO. L-35
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO. SR 429	PROJECT NO. 429-202			
				ENGINEER OF RECORD: FRED D. FERRELL, P.E. FL REGISTRATION NO. 41902					

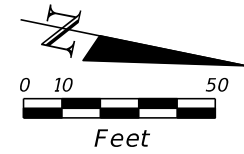


UNDERDECK LUMINAIRES		
LUM. NO.	STATION AND OFFSET	CIRCUIT
UD-110	135+16.00 88' LT	A-3
UD-111	135+03.00 18' LT	A-3
UD-112	134+97.00 15' RT	A-3
UD-113	134+85.00 85' RT	A-3

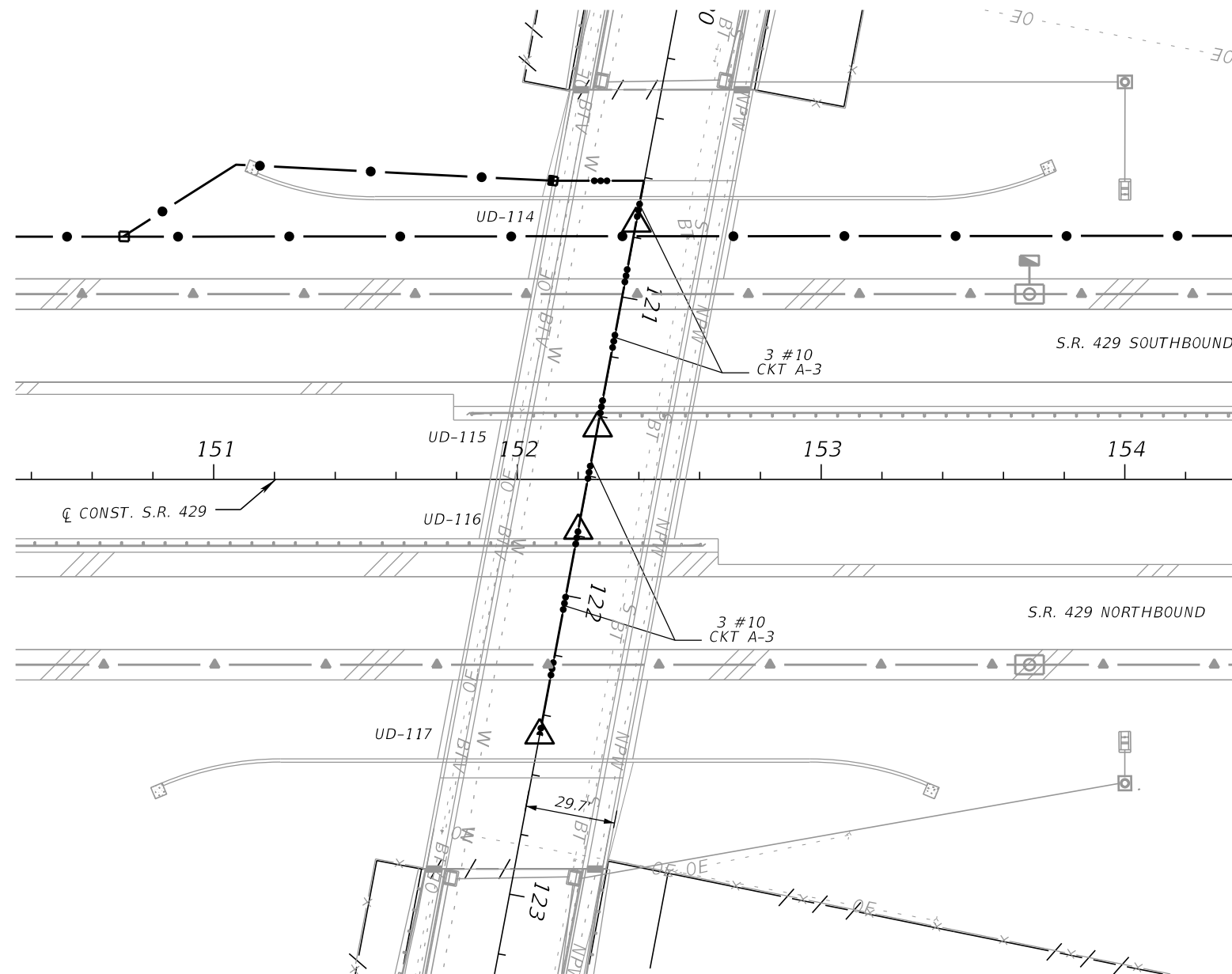


S.R. 429 UNDER BELGIAN STREET

REVISIONS				Traffic Engineering Data Solutions, Inc. 80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778 CERTIFICATION OF AUTHORIZATION # 27392	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CENTRAL FLORIDA EXPRESSWAY AUTHORITY	UNDERDECK LIGHTING PLAN SHEET BELGIAN STREET	SHEET NO. L-36
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT NO.			
				ENGINEER OF RECORD: FRED D. FERRELL, P.E. FL REGISTRATION NO. 41902	SR 429	429-202			

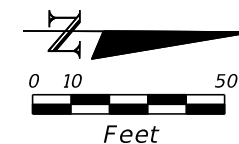


UNDERDECK LUMINAIRES		
LUM. NO.	STATION AND OFFSET	CIRCUIT
UD-114	152+39.00 84' LT	A-3
UD-115	152+26.00 17' LT	A-3
UD-116	152+20.00 17' LT	A-3
UD-117	152+07.00 84' RT	A-3

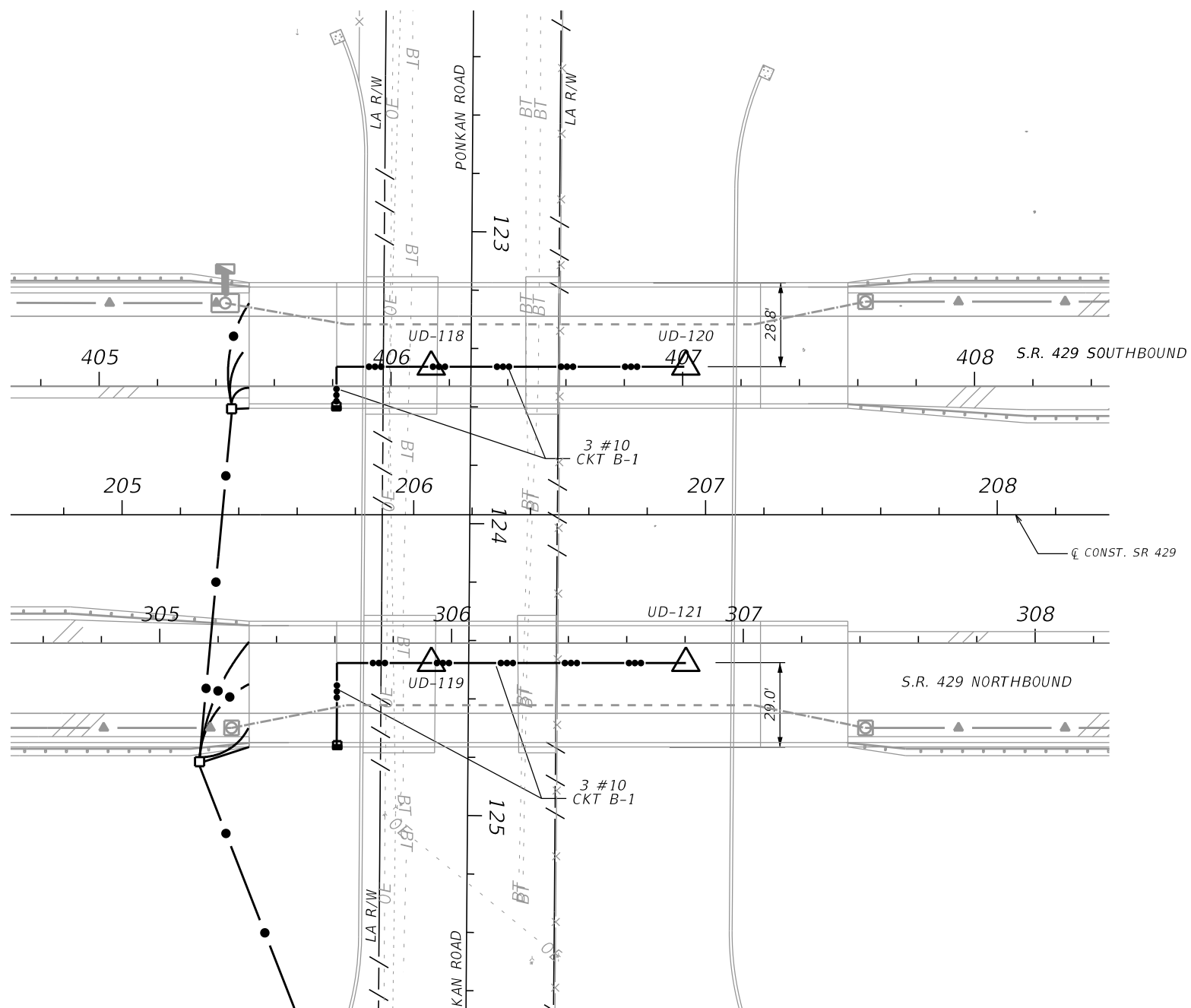


S.R. 429 UNDER YOTHERS ROAD

REVISIONS				<i>Traffic Engineering Data Solutions, Inc.</i> 80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778 CERTIFICATION OF AUTHORIZATION # 27392	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CENTRAL FLORIDA EXPRESSWAY AUTHORITY	UNDERDECK LIGHTING PLAN SHEET YOTHERS ROAD	SHEET NO. L-37
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT NO.			
				ENGINEER OF RECORD: FRED D. FERRELL, P.E. FL REGISTRATION NO. 41902	SR 429	429-202			

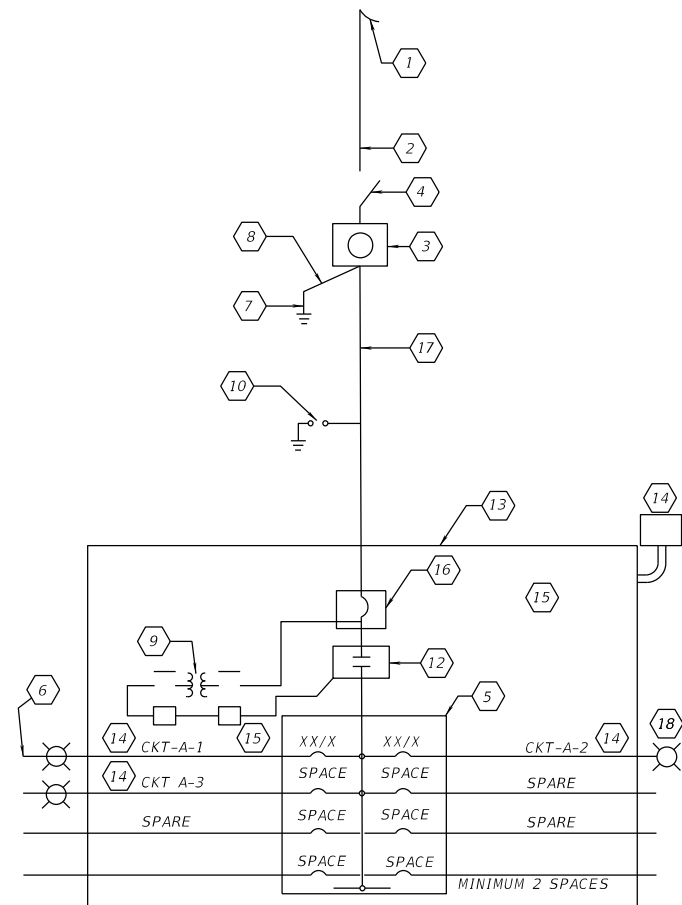


UNDERDECK LUMINAIRES		
LUM. NO.	STATION AND OFFSET	CIRCUIT
UD-118	206+06.0, 50.7' LT	B-1
UD-119	206+06.0, 50.8' RT	B-1
UD-120	206+93.0, 50.7' LT	B-1
UD-121	206+93.0, 50.8' RT	B-1



S.R. 429 OVER PONKAN ROAD

REVISIONS				<i>Traffic Engineering Data Solutions, Inc.</i> 80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778 CERTIFICATION OF AUTHORIZATION # 27392	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CENTRAL FLORIDA EXPRESSWAY AUTHORITY	UNDERDECK LIGHTING PLAN SHEET PONKAN ROAD	SHEET NO. L-38
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT NO.			
				ENGINEER OF RECORD: FRED D. FERRELL, P.E. FL REGISTRATION NO. 41902	SR 429	429-202			

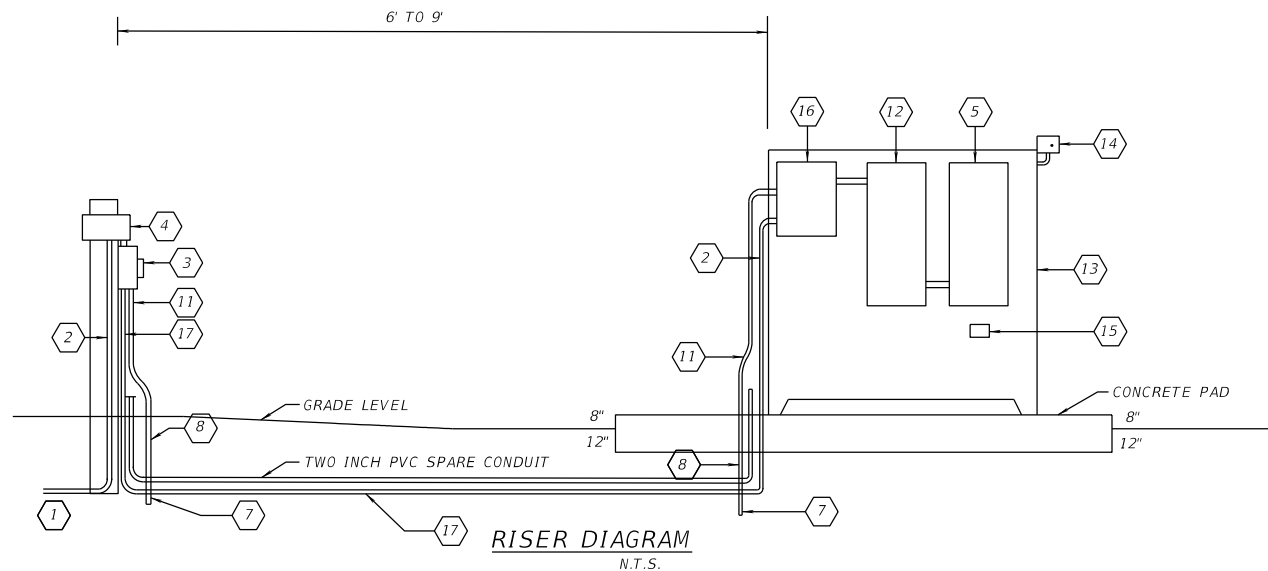


KEYED NOTES:

- 1 480V SINGLE PHASE 3-WIRE UNDERGROUND SERVICE DROP.
- 2 3#2 THHN/THWN CONDUCTORS IN 2" CONDUIT.
- 3 METER CAN WITH BLANK PANEL BY CONTRACTOR.
- 4 100A, 480V, 2-POLE S/N HEAVY DUTY NEMA 3R NON-FUSED SAFETY SWITCH.
- 5 PANELBOARD, 100A, 480V, SINGLE PHASE, 3-WIRE WITH GROUND BAR CIRCUIT BREAKERS AS INDICATED.
- 6 LUMINAIRE CONNECTED TO CIRCUIT (TYPICAL).
- 7 COPPER CLAD GROUND ROD 5/8" DIA. 40FT LONG.
- 8 #4 INSULATED COPPER GROUND WIRE IN 3/4" PVC.
- 9 CONTROL TRANSFORMER 1 KVA, SINGLE PHASE, 480V PRIMARY 120V SECONDARY.
- 10 LIGHTING ARRESTER.
- 11 #6 INSULATED COPPER GROUND WIRE IN 3/4" RIGID GALVANIZED STEEL.
- 12 100A, 2-POLE, ELECTRICALLY HELD CONTACTOR.
- 13 FREE STANDING NEMA 4X STAINLESS STEEL ENCLOSURE WITH TWO DOORS AND BACK PANEL DIMENSIONS AS NECESSARY, AND PER NEC.
- 14 PHOTO ELECTRIC SWITCH. INSTALL BOTTOM OF PE SWITCH ABOVE TOP OF CABINET.
- 15 HANDS-OFF AUTOMATIC SELECTOR SWITCH.
- 16 MAIN CIRCUIT BREAKER 100A, 2 POLE, 480V.
- 17 3#2 THHN/THWN CONDUCTORS IN 2" PVC SCHEDULE 40 CONDUIT.
- 18 AT A MINIMUM PROVIDE #4 WIRES BETWEEN BREAKER AND FIRST PULL BOX.

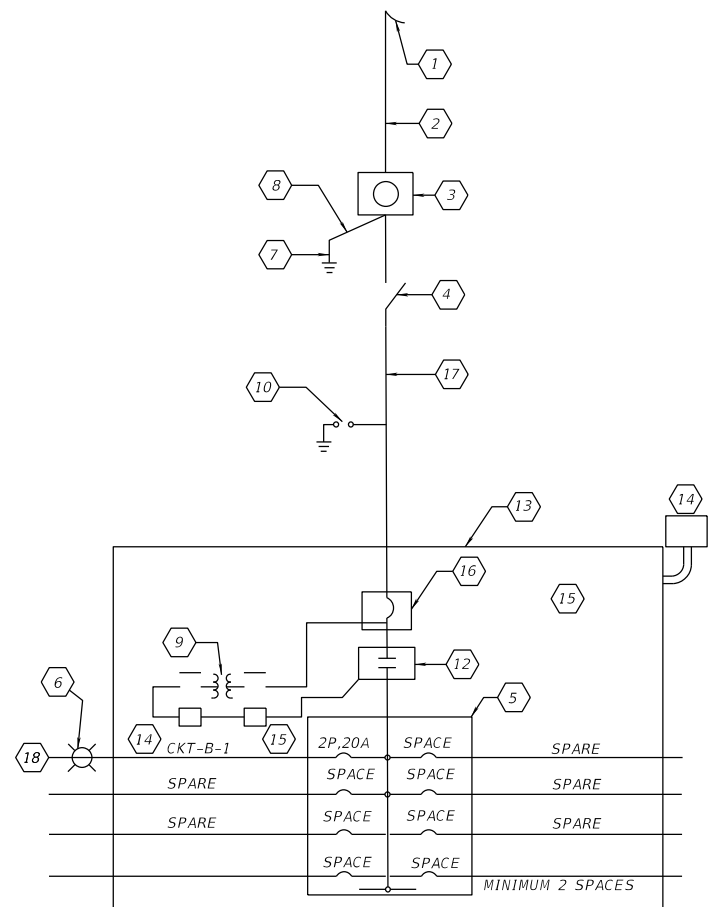
LOAD CENTER	CKT #	VA LOAD	CIRCUIT BREAKER
PNL A	CKT A-1	11752	40A, 2P
	CKT A-2	12237	40A, 2P
	CKT A-3	980	20A, 2P

TYPICAL ONE LINE DIAGRAM LOAD CENTER A
N.T.S.



RISER DIAGRAM
N.T.S.

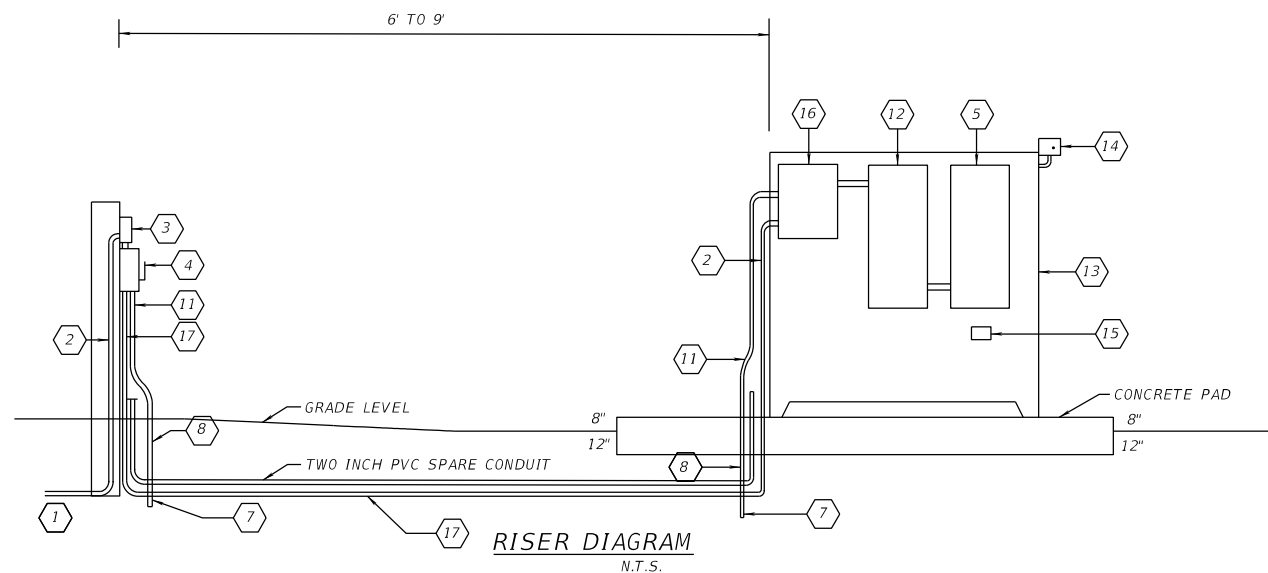
REVISIONS				Traffic Engineering Data Solutions, Inc. 80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778 CERTIFICATION OF AUTHORIZATION # 27392	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CENTRAL FLORIDA EXPRESSWAY AUTHORITY	SERVICE POINT DETAIL SHEET LOAD CENTER A	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT NO.			L-39
				ENGINEER OF RECORD: FRED D. FERRELL, P.E FL REGISTRATION NO. 41902	SR 429	429-202			



TYPICAL DIAGRAM OF LOAD CENTER B
N.T.S.

- KEYED NOTES:**
- 1 480V SINGLE PHASE 3-WIRE UNDERGROUND SERVICE DROP.
 - 2 3#2 THHN/THWN CONDUCTORS IN 2" CONDUIT.
 - 3 METER CAN WITH BLANK PANEL BY CONTRACTOR.
 - 4 100A, 480V, 2-POLE S/N HEAVY DUTY NEMA 3R NON-FUSED SAFETY SWITCH.
 - 5 PANELBOARD, 100A, 480V, SINGLE PHASE, 3-WIRE WITH GROUND BAR CIRCUIT BREAKERS AS INDICATED.
 - 6 LUMINAIRE CONNECTED TO CIRCUIT (TYPICAL).
 - 7 COPPER CLAD GROUND ROD 3/8" DIA. 40FT LONG.
 - 8 #4 INSULATED COPPER GROUND WIRE IN 3/4" PVC.
 - 9 CONTROL TRANSFORMER 1 KVA, SINGLE PHASE, 480V PRIMARY 120V SECONDARY.
 - 10 LIGHTING ARRESTER.
 - 11 #4 INSULATED COPPER GROUND WIRE IN 3/4" RIGID GALVANIZED STEEL.
 - 12 100A, 2-POLE, ELECTRICALLY HELD CONTACTOR.
 - 13 FREE STANDING NEMA 4X STAINLESS STEEL ENCLOSURE WITH TWO DOORS AND BACK PANEL DIMENSIONS AS NECESSARY, AND PER NEC.
 - 14 PHOTO ELECTRIC SWITCH. INSTALL BOTTOM OF PE SWITCH ABOVE TOP OF CABINET.
 - 15 HANDS-OFF AUTOMATIC SELECTOR SWITCH.
 - 16 MAIN CIRCUIT BREAKER 100A, 2 POLE, 480V.
 - 17 3#2 THHN/THWN CONDUCTORS IN 2" PVC SCHEDULE 40 CONDUIT.
 - 18 AT A MINIMUM PROVIDE #6 WIRES BETWEEN BREAKER AND FIRST PULL BOX.

LOAD CENTER	CKT #	VA LOAD	CIRCUIT BREAKER
PNL B	CKT B-1	348	20A, 2P



RISER DIAGRAM
N.T.S.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

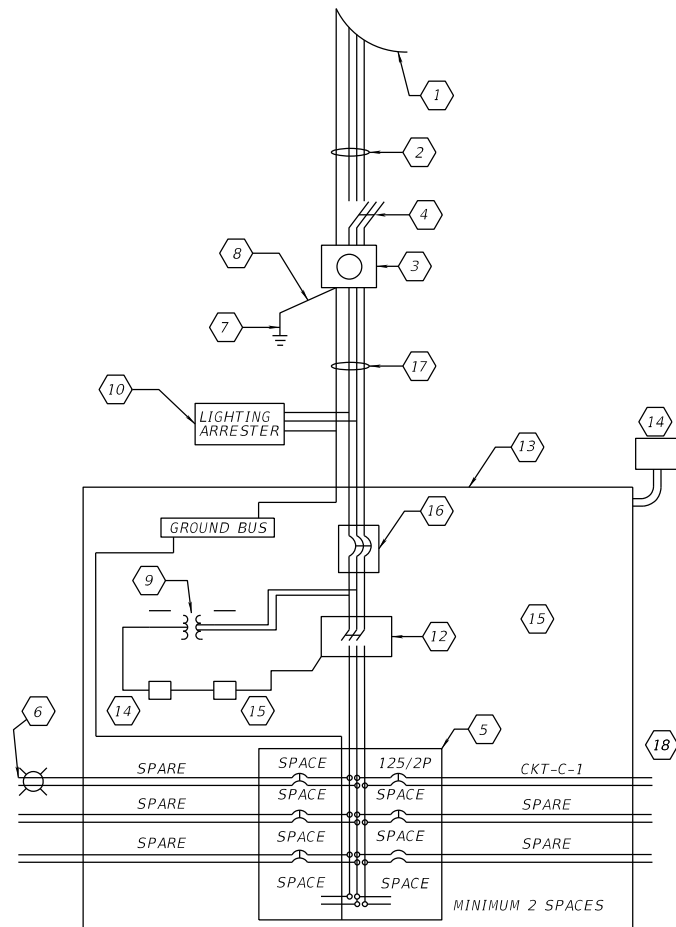
Traffic Engineering Data Solutions, Inc.
80 Spring Vista Drive Phone: 386.753.0558
DeBary, FL 32713 Fax: 386.753.0778
CERTIFICATION OF AUTHORIZATION # 27392
ENGINEER OF RECORD: FRED D. FERRELL, P.E.
FL REGISTRATION NO. 41902

CENTRAL FLORIDA EXPRESSWAY AUTHORITY
ROAD NO. SR 429
PROJECT NO. 429-202

CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SERVICE POINT DETAIL
SHEET LOAD CENTER B

SHEET NO.
L-40

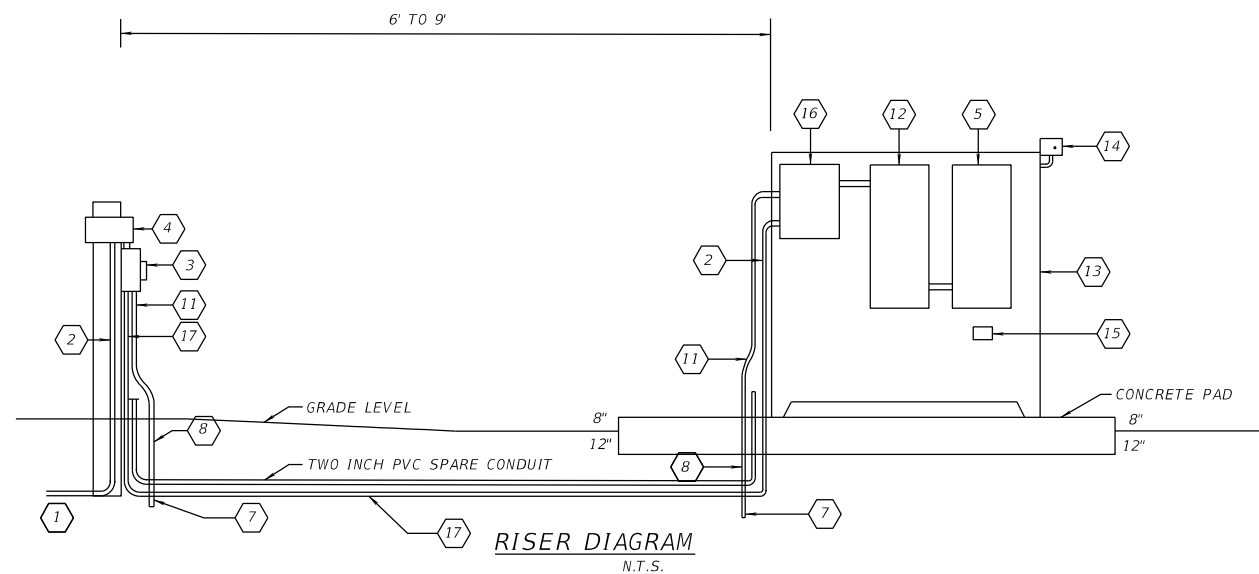


TYPICAL DIAGRAM OF LOAD CENTER C
N.T.S.

KEYED NOTES:

- 1 277/480V THREE PHASE 4-WIRE UNDERGROUND SERVICE DROP.
- 2 4#2 THHN/THWN CONDUCTORS IN 2" CONDUIT.
- 3 METER CAN WITH BLANK PANEL BY CONTRACTOR.
- 4 125A, 480V, 3-POLE S/N HEAVY DUTY NEMA 3R NON-FUSED SAFETY SWITCH.
- 5 PANELBOARD, 125A, 480V, THREE PHASE, 4-WIRE WITH GROUND BAR CIRCUIT BREAKERS AS INDICATED.
- 6 LUMINAIRE CONNECTED TO CIRCUIT (TYPICAL).
- 7 COPPER CLAD GROUND ROD 3/8" DIA. 40FT LONG.
- 8 #4 INSULATED COPPER GROUND WIRE IN 3/4" PVC.
- 9 CONTROL TRANSFORMER 1 KVA, SINGLE PHASE, 480V PRIMARY 120V SECONDARY.
- 10 LIGHTING ARRESTER.
- 11 #6 INSULATED COPPER GROUND WIRE IN 3/4" RIGID GALVANIZED STEEL.
- 12 100A, 3-POLE, ELECTRICALLY HELD CONTACTOR.
- 13 FREE STANDING NEMA 4X STAINLESS STEEL ENCLOSURE WITH TWO DOORS AND BACK PANEL DIMENSIONS AS NECESSARY, AND PER NEC.
- 14 PHOTO ELECTRIC SWITCH. INSTALL BOTTOM OF PE SWITCH ABOVE TOP OF CABINET.
- 15 HANDS-OFF AUTOMATIC SELECTOR SWITCH.
- 16 MAIN CIRCUIT BREAKER 125A, 3 POLE, 3 PHASE, 480V.
- 17 3#2 THHN/THWN CONDUCTORS IN 2" PVC SCHEDULE 40 CONDUIT.
- 18 AT A MINIMUM PROVIDE #4 WIRES BETWEEN BREAKER AND FIRST PULL BOX.

LOAD CENTER	CKT #	VA LOAD	CIRCUIT BREAKER
PNL C	CKT C-1	45000	125A, 2P



RISER DIAGRAM
N.T.S.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

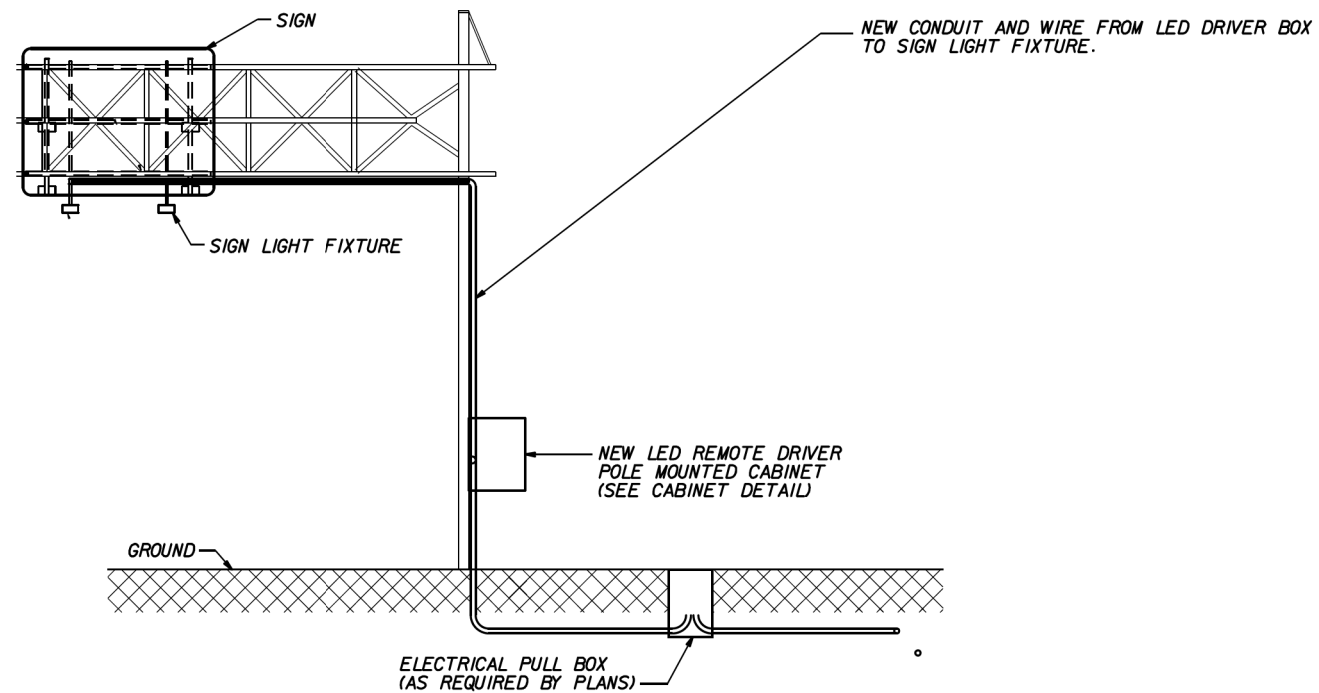
Traffic Engineering Data Solutions, Inc.
80 Spring Vista Drive Phone: 386.753.0558
DeBary, FL 32713 Fax: 386.753.0778
CERTIFICATION OF AUTHORIZATION # 27392
ENGINEER OF RECORD: FRED D. FERRELL, P.E.
FL REGISTRATION NO. 41902

CENTRAL FLORIDA EXPRESSWAY AUTHORITY
ROAD NO. SR 429 PROJECT NO. 429-202

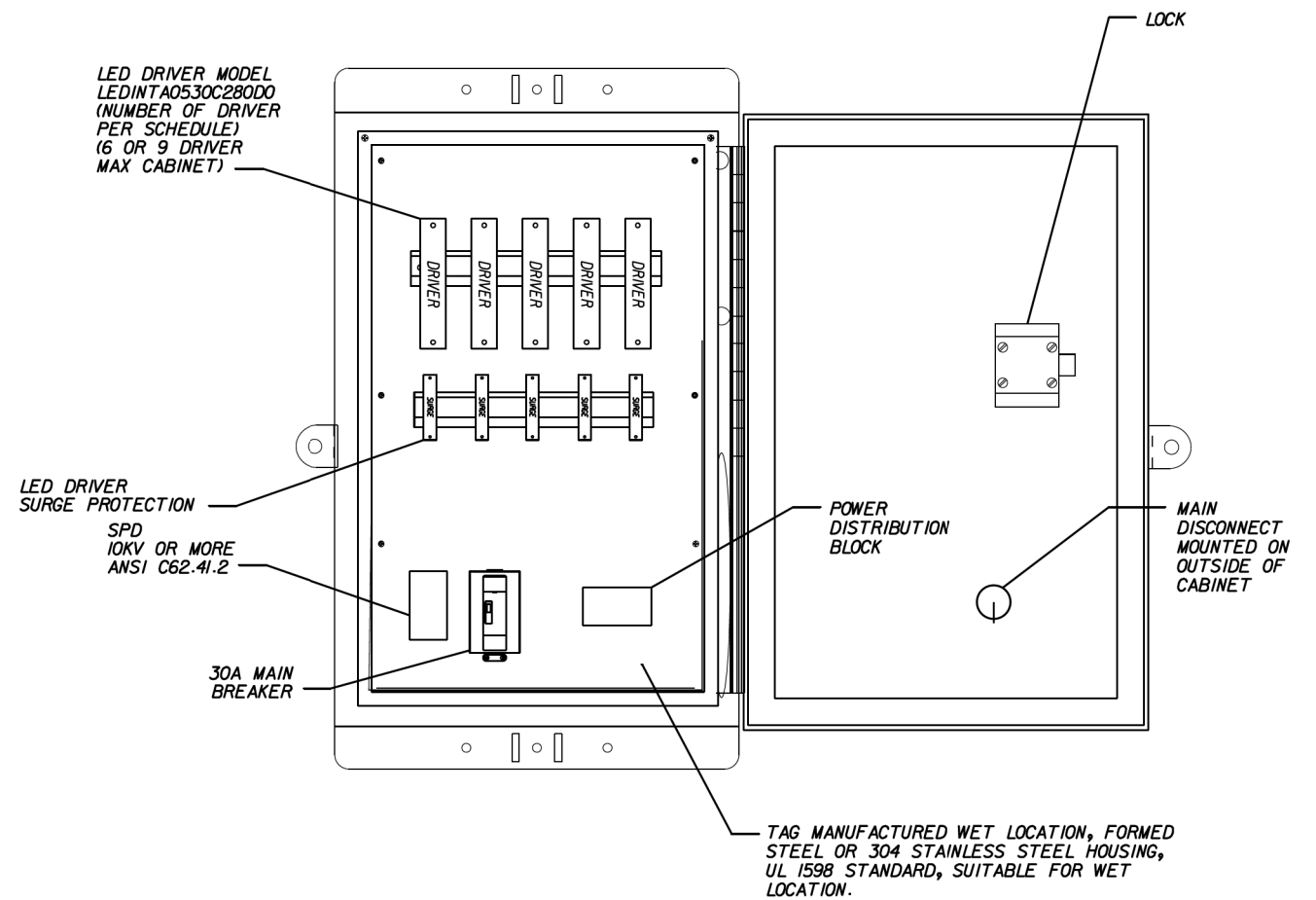
CENTRAL FLORIDA EXPRESSWAY AUTHORITY

SERVICE POINT DETAIL
SHEET LOAD CENTER C

SHEET NO. L-41

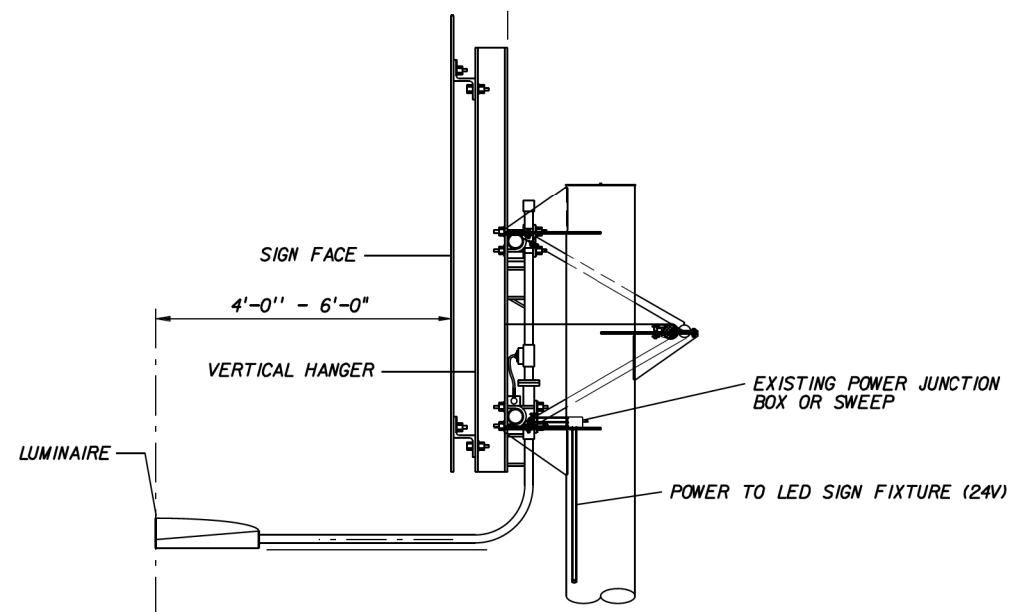


SIGN CONDUIT DIAGRAM



CABINET DETAIL

LED REMOTE DRIVER BOX - POLE MOUNT



LED SIGN LIGHT FIXTURE ON STRUCTURE (PROFILE)

REVISIONS				Traffic Engineering Data Solutions, Inc. 80 Spring Vista Drive Phone: 386.753.0558 DeBary, FL 32713 Fax: 386.753.0778 CERTIFICATION OF AUTHORIZATION # 27392	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CENTRAL FLORIDA EXPRESSWAY AUTHORITY	LED SIGN LIGHTING DETAIL	SHEET NO. L-42
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO. SR 429	PROJECT NO. 429-202			
				ENGINEER OF RECORD: FRED D. FERRELL, P.E FL REGISTRATION NO. 41902					