

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

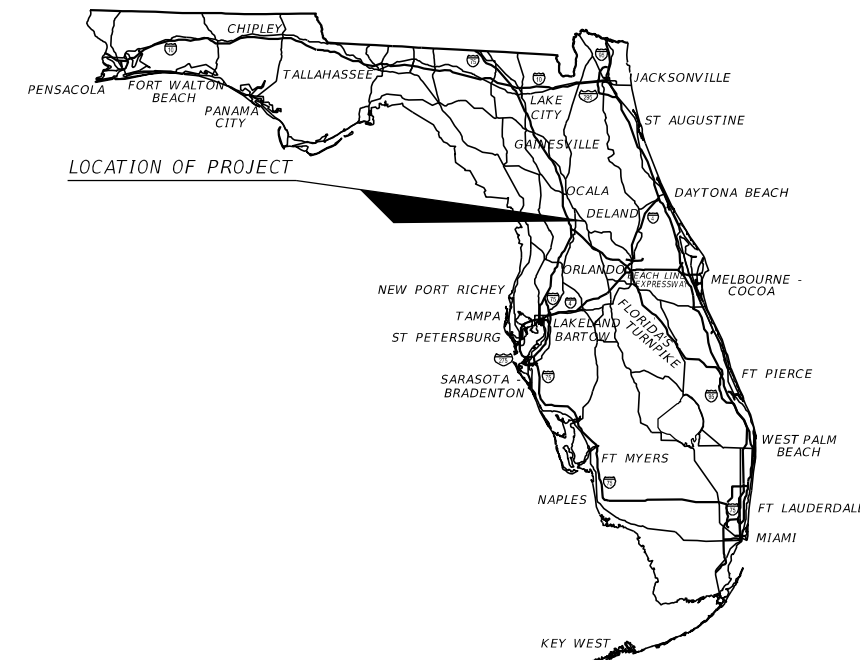
FINANCIAL PROJECT ID 238275-2-52-01

LAKE COUNTY (11130)

STATE ROAD NO. 46

LIGHTING PLANS

THIS PROJECT TO BE LET TO CONTRACT
 WITH FINANCIAL PROJECT ID 238275-3-52-01



INDEX OF LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
L-1	KEY SHEET
L-2	SIGNATURE SHEET
L-3 - L-4	TABULATION OF QUANTITIES
L-5	GENERAL NOTES
L-6 - L-7	POLE DATA AND LEGEND
L-8 - L-10	PROJECT LAYOUT
L-11 - L-28	LIGHTING PLAN
L-29	UNDERDECK LIGHTING DETAILS
L-30	SERVICE POINT DETAIL

LIGHTING PLANS
 ENGINEER OF RECORD:

SCOTT G. HORLANDER, P.E.
 P.E. NO. 46624
 PROTEAN DESIGN GROUP
 100 EAST PINE STREET, SUITE 600
 ORLANDO, FLORIDA 32801
 CONTRACT NO.: C9862
 VENDOR ID.: F59-3473441
 CERTIFICATE OF AUTHORIZATION NO.: 7865

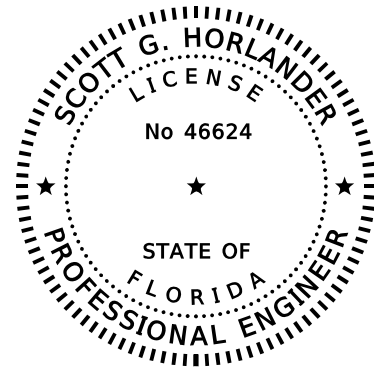
FDOT PROJECT MANAGER:

CATALINA CHACON, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
T5589	17	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 DOCUMENT HAS BEEN DIGITALLY
SIGNED AND SEALED BY:



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

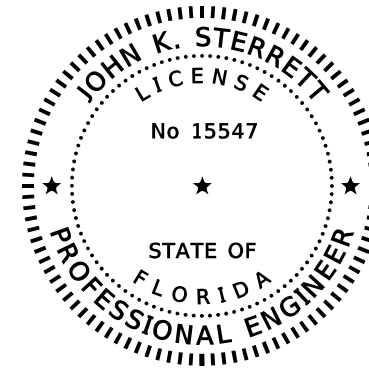
PROTEAN DESIGN GROUP
100 EAST PINE STREET, SUITE 600
ORLANDO, FLORIDA 32801
CERTIFICATE OF AUTHORIZATION NUMBER 7865
SCOTT G. HORLANDER, P.E. NO. 46624

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

LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
L-1	KEY SHEET
L-2	SIGNATURE SHEET
L-3 - L-4	TABULATION OF QUANTITIES
L-5	GENERAL NOTES
L-6 - L-7	POLE DATA AND LEGEND
L-8 - L-10	PROJECT LAYOUT
L-11 - L-28	LIGHTING PLAN
L-29	UNDERDECK LIGHTING DETAILS

THIS DOCUMENT HAS BEEN DIGITALLY
SIGNED AND SEALED BY:



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

PROTEAN DESIGN GROUP
100 EAST PINE STREET, SUITE 600
ORLANDO, FLORIDA 32801
CERTIFICATE OF AUTHORIZATION NUMBER 7865
JOHN K. STERRETT, P.E. NO. 15547

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

LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
L-2	SIGNATURE SHEET
L-30	SERVICE POINT DETAIL

REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-2
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 46	LAKE	238275-2-52-01	

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	PLAN	FINAL					
630-2-11	CONDUIT, F&I, OPEN TRENCH	LF	923		2670		1279		1257		1465		1401		1400		1312		1303		1400		14410				
630-2-12	CONDUIT, F&I, DIRECTIONAL BORE	LF	94		-		-		178		-		-		-		90		97		82		541				
630-2-15	CONDUIT, F&I, BRIDGE MOUNT	LF	-		80		-		20		-		-		-		-		-		-		100				
635-2-11	PULL & SPLICE BOX, F&I, 13"X24	EA	8		34		6		9		9		6		6		7		7		8		100				
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8 TO NO. 6	LF	3480		14299		5189		5738		3740		2688		1902		4152		4680		4977		50845				
715-1-13	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 4 TO NO. 2	LF	-		4663		4116		4536		4778		4491		2730		510		-		-		25824				
715-4-033	LIGHT POLE COMPLETE, F&I, SPECIAL FOUNDATION, W.S. 110, 50'	EA	-		4		3		3		1		-		-		-		-		-		11				
715-4-133	LIGHT POLE COMPLETE, F&I, W.S. 110, 50'	EA	4		13		5		4		7		6		6		5		6		7		63				
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA	-		1		-		-		-		-		-		-		-		-		1				
715-11-125	LUMINAIRE, F&I, UNDER DECK, WALL MOUNT	EA	-		4		-		1		-		-		-		-		-		-		5				
715-50	LIGHTING, INSIDE BOX GIRDER	LS	-		1		-		-		-		-		-		-		-		-		1				
715-500-1	POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL	EA	4		14		5		4		7		6		6		5		6		7		64				
715-500-3	POLE CABLE DISTRIBUTION SYSTEM, WALL MOUNT	EA	-		4		3		3		1		-		-		-		-		-		11				
715-516-115	LIGHT POLE COMPLETE, SPECIAL DESIGN, F&I, POLE TOP MOUNT, ALUMINUM, 15'	EA	-		1		-		-		-		-		-		-		-		-		1				

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

REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<h2 style="margin: 0;">TABULATION OF QUANTITIES</h2>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-3
					SR 46	LAKE	238275-2-52-01		

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		PLAN	FINAL	PLAN	FINAL					
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL									
630-2-11	CONDUIT, F&I, OPEN TRENCH	LF	270	1400		1360		1966		1606		1324		1400		789						10115		24525			
630-2-12	CONDUIT, F&I, DIRECTIONAL BORE	LF	-	-		-		-		-		82		-		-						82		623			
630-2-15	CONDUIT, F&I, BRIDGE MOUNT	LF	-	-		-		-		-		-		-		-						-		100			
635-2-11	PULL & SPLICE BOX, F&I, 13"X24	EA	2	8		6		11		10		9		7		5						58		158			
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8 TO NO. 6	LF	906	4776		4512		8871		5514		4818		4704		2679						36780		87625			
715-1-13	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 4 TO NO. 2	LF	-	-		-		-		-		-		-		-						-		25824			
715-4-033	LIGHT POLE COMPLETE, F&I, SPECIAL FOUNDATION, W.S. 110, 50'	EA	-	1		-		1		-		-		-		-						-		11			
715-4-133	LIGHT POLE COMPLETE, F&I, W.S. 110, 50'	EA	2	7		6		8		9		7		7		5						51		114			
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA	-	-		-		-		-		-		-		-						-		1			
715-11-125	LUMINAIRE, F&I, UNDER DECK, WALL MOUNT	EA	-	-		-		-		-		-		-		-						-		5			
715-50	LIGHTING, INSIDE BOX GIRDER	LS	-	-		-		-		-		-		-		-						-		1			
715-500-1	POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL	EA	2	8		6		11		9		7		7		5						55		119			
715-500-3	POLE CABLE DISTRIBUTION SYSTEM, WALL MOUNT	EA	-	-		-		1		-		-		-		-						1		12			
715-516-115	LIGHT POLE COMPLETE, SPECIAL DESIGN, F&I, POLE TOP MOUNT, ALUMINUM, 15'	EA	-	-		-		3		-		-		-		-						3		4			

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

REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<h2 style="margin: 0;">TABULATION OF QUANTITIES</h2>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-4
					SR 46	LAKE	238275-2-52-01		

GENERAL NOTES

1. UTILITY OWNERS:

<u>UTILITY AGENCY/OWNERS:</u>	<u>CONTACT:</u>	<u>TELEPHONE NUMBER:</u>
CENTURYLINK	WADE RICH	407-881-8383
CITY OF MOUNT DORA - WATER/SEWER	JOHN PETERS	352-735-7151
CITY OF MOUNT DORA - ELECTRIC	CHARLES REVELL	352-735-7155
CITY OF LEESBURG - FIBER OPTIC	JIMMY FEAGLE	352-435-9440
COMCAST COMMUNICATIONS	SCOTT OSEBOLD	352-315-8527
DUKE ENERGY - DISTRIBUTION	MIKE EDKIN	407-942-9553
DUKE ENERGY - TRANSMISSION	ED BURKOT	407-942-9453
TECO/PEOPLES GAS	BRUCE STOUT	407-420-2678

2. ALL POLES MOUNTED ON BRIDGES OR WALLS SHALL HAVE HANDHOLES FACING THE TRAFFIC LANE. HANDHOLES SHALL BE POSITIONED ONE (1.0) FOOT ABOVE THE TOP OF THE WALL.

3. VERIFY POLE LENGTHS REQUIRED PER THE ROADWAY CROSS SECTIONS AND OFFSETS IN ORDER TO ACHIEVE THE PROPER MOUNTING HEIGHT FOR EACH LUMINAIRE. THIS VERIFICATION SHALL OCCUR PRIOR TO THE SUBMISSION OF SHOP DRAWINGS. MOUNTING HEIGHTS ARE DETERMINED FROM THE BOTTOM OF THE LUMINAIRE HOUSING VERTICALLY TO PAVEMENT GRADE.

4. REFERENCE THE BRIDGE STRUCTURAL PLANS FOR THE EMBEDDED ELECTRICAL ITEMS: CONDUIT, PULL BOX, JUNCTION BOX AND THEIR LOCATIONS.

5. ALL SPLICES SHALL BE MADE IN PULL BOXES ONLY WITH COMPRESSION SLEEVES OR SPLIT BOLT CONNECTORS, PROPERLY TAPED AND WATERPROOFED.

6. 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.

7. CONTRACTOR TO PROVIDE MAINTENANCE LIGHTING FOR BOX GIRDERS.

REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 46	LAKE		238275-2-52-01

POLE DATA

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNTING HEIGHT	POLE SETBACK	PAY ITEM
1	A-3	25+35 RT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
2	A-2	27+72 LT, @ CONST. SR 46	N/A	367	50'	1.0' FROM BOS	715-4-133
3	A-3	29+52 RT, @ CONST. SR 46	N/A	367	50'	14.0' FROM EOTL	715-4-133
4	A-2	30+98 LT, @ CONST. SR 46	N/A	367	50'	14.0' FROM EOTL	715-4-133
5	A-3	31+68 RT, @ CONST. SR 46	N/A	367	50'	14.0' FROM EOTL	715-4-133
6	A-3	33+94 RT, @ CONST. SR 46	N/A	367	50'	14.0' FROM EOTL	715-4-133
7	A-2	33+92 LT, @ CONST. SR 46	N/A	367	50'	14.0' FROM EOTL	715-4-133
8	A-3	34+58 RT, @ CONST. SR 46	N/A	367	50'	4.0' FROM FOC	715-4-133
9	A-5	36+54 RT, @ CONST. SR 46	N/A	367	50'	4.0' FROM FOC	715-4-133
10	A-5	37+46 RT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
11	A-6	305+72 RT, @ CONST. RAMP YY	N/A	367	50'	1.0' FROM BOS	715-4-133
12	A-5	39+20 RT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
13	A-6	303+40 RT, @ CONST. RAMP YY	N/A	367	50'	1.0' FROM BOS	715-4-133
14	A-5	41+87 RT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
15	A-6	300+39 RT, @ CONST. RAMP YY	N/A	367	50'	1.0' FROM BOS	715-4-133
16	A-5	44+70 RT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
17	A-6	46+34 LT, @ CONST. SR 46	N/A	367	50'	1.0' FROM BOS	715-4-133
18	A-5	47+51 RT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
19	A-6	49+17 LT, @ CONST. SR 46	N/A	367	50'	1.0' FROM BOS	715-4-133
20	A-5	50+44 RT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
21	A-6	52+09 LT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
22	A-5	53+40 RT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
23	A-6	54+94 LT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
24	A-6	56+49 LT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
25	A-6	58+15 LT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
26	A-6	60+42 LT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
27	A-5	61+60 RT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
28	A-6	62+99 LT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
29	A-5	64+38 RT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
30	A-6	65+56 LT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
31	A-7	67+08 RT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
32	A-8	68+00 LT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
33	A-7	69+68 RT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
34	A-8	70+48 LT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
35	A-7	72+35 RT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
36	A-8	72+51 LT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
37	A-8	74+50 LT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
38	A-7	74+69 RT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
39	A-8	76+39 LT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
40	A-7	77+42 RT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
41	A-8	78+93 LT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
42	A-7	80+07 RT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
43	A-8	81+54 LT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
44	A-7	82+29 RT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
45	A-8	83+98 LT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
46	A-7	84+84 RT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
47	A-8	86+48 LT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
48	A-7	87+39 RT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133

① REQUIRES DEEPER FOUNDATION. SEE INDEX 17515 FOR MORE INFORMATION.

CONVENTIONAL LIGHTING
DESIGN CRITERIA FOR
SIDEWALKS AND ROADWAY

Illumination Level Average 1.5 Horizontal Foot Candle
Initial Foot Candle
Uniformity Ratio Avg./Min. 4:1 Or Less
Max./Min. 10:1 Or Less
Veiling Luminance 0.3:1 Or Less
Wind Speed 110 MPH

CONVENTIONAL LIGHTING
DESIGN CRITERIA FOR
SIGNALIZED INTERSECTION
(URBAN 3 TO 5 DESIGNATION)

Illumination Level Average 3.0 Horizontal Foot Candle
Initial Foot Candle 2.3 Horizontal Foot Candle Target
Uniformity Ratio Avg./Min. 4:1 Or Less (H.F.C.)
Max./Min. 10:1 Or Less (H.F.C.)
Veiling Luminance 0.3:1 Or Less (H.F.C.)
Wind Speed 110 MPH

SIGN LIGHTING
DESIGN CRITERIA

Ambient Luminance Medium & High
Average Initial Intensity 25 - 35 Foot Candles
Uniformity Ratio Max./Min. 6:1 Or Less

LEGEND

SYMBOLS

DESCRIPTION

- 367 watt LED luminaire designed for medium type II distribution (B4-U3-G5) wired for 480 volt operation. Pole top mounted luminaire with mounting height of 50 ft. Use Holophane test number LTL24772P1. Symbol includes pole, fixture, concrete slab or pedestal, pull box, foundation and PCDS. Pull box and PCDS paid for separately.
- 104 watt LED luminaire, wall/peir mount designed for short type IV distribution (B1-U0-G2) wired for 480 volt operation. Use GE test # 456854. Symbol includes luminaire, pull box, RGS conduit and all required mounting hardware. RGS conduit and pull box paid for separately.
- 66 watt LED luminaire designed for medium type III distribution (B2-U3-G3) wired for 480 volt operation. Pole top mounted luminaire with mounting height of 13 ft. Use Sternberg Lighting test number S1770. Symbol includes pole, fixture, concrete slab, pull box, foundation and PCDS. Pull box and PCDS paid for separately.
- Existing pole and luminaire to be removed, by others.
- Existing pole and luminaire to remain.
- Lighting pull box.
- Embedded lighting pull box. Paid for with the traffic railing.
- Concrete Pole.
- Lighting Load Center.
- Open trench conduit with conductors inside (conductor size as shown on the plan sheets). Run one (1) copper bond conductor (green insulation) inside conduit with other conductors.
- Directional bore conduit with conductors inside (conductor size as shown on the plan sheets). Run one (1) copper bond conductor (green insulation) inside conduit with other conductors.
- Embedded conduit in barrier wall with conductors inside (conductor size as shown on the plan sheets). Run one (1) copper bond conductor (green insulation) inside conduit with other conductors. Cost of conduit to be included with barrier wall.
- 1" rigid galvanized steel (RGS) conduit mounted on bridge pier or wall with conductors inside (conductor size as shown on the plan sheets). Run one (1) copper bond conductor (green insulation) inside conduit with other conductors.

EOTL: Edge of Travel Lane
BOS: Back of Sidewalk
FOGW: Face of Gravity Wall
FOC: Face of Curb

SIGN LIGHTING

GUIDE SIGN	CIRCUIT	STATION	ARM LENGTH	LUMINAIRE WATTAGE	TILT
OHC-2	A-6	43+60 LT, @ CONST. SR 46	5'	(1) 108	N/A

Overhead sign lighting shall be equivalent to 108 Watt Holophane Sign Vue LED II (Curve Number 502496P2).

REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-6
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 46	LAKE	238275-2-52-01	

POLE DATA

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNTING HEIGHT	POLE SETBACK	PAY ITEM
49	A-8	89+03 LT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
50	A-7	89+94 RT, @ CONST. SR 46	N/A	367	50'	20.0' FROM EOTL	715-4-133
51	A-8	91+63 LT, @ CONST. SR 46	N/A	367	50'	1.0' FROM BOS	715-4-133
52	A-7	92+34 RT, @ CONST. SR 46	N/A	367	50'	1.0' FROM BOS	715-4-133
53	A-8	94+00 LT, @ CONST. SR 46	N/A	367	50'	1.0' FROM BOS	715-4-133
54	A-7	94+75 RT, @ CONST. SR 46	N/A	367	50'	4.0' FROM BOS	715-4-133
55	A-3	426+44 LT, @ CONST. SR 500	N/A	367	50'	29.0' FROM EOTL	715-4-133
56	A-3	426+47 RT, @ CONST. SR 500	N/A	367	50'	31.0' FROM EOTL	715-4-133
57	A-3	428+49 LT, @ CONST. SR 500	N/A	367	50'	6.0' FROM FOGW	715-4-033
58	A-3	428+49 RT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
59	A-3	430+59 LT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
60	A-3	430+66 RT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
61	A-3	432+69 LT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
62	A-3	432+69 RT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
63	A-3	434+74 LT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
64	A-3	434+79 RT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
65	A-3	436+79 LT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
66	A-3	436+94 RT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
67	A-3	438+84 LT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
68	A-3	439+33 RT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
69	A-3	440+74 LT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
70	A-3	441+25 RT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
71	A-3	442+16 RT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
72	A-3	442+44 LT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
73	A-4	444+28 RT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
74	A-4	444+26 RT, @ CONST. RAMP YY	N/A	367	50'	14.0' FROM EOTL	715-4-133
75	A-4	307+19 RT, @ CONST. RAMP YY	N/A	367	50'	14.0' FROM EOTL	715-4-133
76	A-2	445+28 LT, @ CONST. SR 500	N/A	367	50'	14.0' FROM EOTL	715-4-133
77	A-4	308+92 RT, @ CONST. RAMP YY	N/A	367	50'	14.0' FROM EOTL	715-4-133
78	A-2	447+53 LT, @ CONST. SR 500	N/A	367	50'	14.0' FROM EOTL	715-4-133
79	A-4	311+08 RT, @ CONST. RAMP YY	N/A	367	50'	23.0' FROM EOTL	715-4-133
80	A-2	449+78 LT, @ CONST. SR 500	N/A	367	50'	20.0' FROM EOTL	715-4-133
81	A-4	450+87 RT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
82	A-2	452+03 LT, @ CONST. SR 500	N/A	367	50'	20.0' FROM EOTL	715-4-133
83	A-4	453+19 RT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
84	A-2	454+36 LT, @ CONST. SR 500	N/A	367	50'	20.0' FROM EOTL	715-4-133
85	A-4	455+47 RT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
86	A-4	457+09 RT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
87	A-4	459+11 RT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
88	A-4	460+82 RT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
89	A-2	462+74 LT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
90	A-4	462+79 RT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
91	A-2	464+65 LT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
92	A-4	464+97 RT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
93	A-4	466+57 RT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
94	A-2	466+80 LT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
95	A-2	468+60 LT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNTING HEIGHT	POLE SETBACK	PAY ITEM
96	A-4	468+67 RT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
97	A-2	470+50 LT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
98	A-4	470+62 RT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
99	A-4	472+32 RT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
100	A-2	472+40 LT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
101	A-2	474+17 LT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
102	A-4	474+22 RT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
103	A-2	476+16 LT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
104	A-4	476+95 RT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
105	A-2	478+15 LT, @ CONST. SR 500	N/A	367	50'	1.0' FROM BOS	715-4-133
106	A-2	199+19 RT, @ CONST. RAMP XX	N/A	367	50'	14.0' FROM EOTL	715-4-133
107	A-2	200+89 RT, @ CONST. RAMP XX	N/A	367	50'	14.0' FROM EOTL	715-4-133
108	A-2	202+49 RT, @ CONST. RAMP XX	N/A	367	50'	14.0' FROM EOTL	715-4-133
109	A-2	203+99 RT, @ CONST. RAMP XX	N/A	367	50'	14.0' FROM EOTL	715-4-133
110	A-1	205+93 RT, @ CONST. RAMP XX	N/A	367	50'	18.0' FROM EOTL	715-4-133
111	A-1	207+95 RT, @ CONST. RAMP XX	N/A	367	50'	20.0' FROM EOTL	715-4-133
112	A-1	210+22 RT, @ CONST. RAMP XX	N/A	367	50'	20.0' FROM EOTL	715-4-133
113	A-1	212+47 RT, @ CONST. RAMP XX	N/A	367	50'	COPING MOUNT	715-4-033
114	A-1	214+33 RT, @ CONST. RAMP XX	N/A	367	50'	COPING MOUNT	715-4-033
115	A-1	216+04 RT, @ CONST. RAMP XX	N/A	367	50'	BRIDGE MOUNT	715-4-033
116	A-1	218+19 RT, @ CONST. RAMP XX	N/A	367	50'	BRIDGE MOUNT	715-4-033
117	A-1	219+90 RT, @ CONST. RAMP XX	N/A	367	50'	COPING MOUNT	715-4-033
118	A-1	222+08 RT, @ CONST. RAMP XX	N/A	367	50'	COPING MOUNT	715-4-033
119	A-1	224+49 RT, @ CONST. RAMP XX	N/A	367	50'	COPING MOUNT	715-4-033
120	A-1	226+78 RT, @ CONST. RAMP XX	N/A	367	50'	COPING MOUNT	715-4-033
121	A-1	228+69 RT, @ CONST. RAMP XX	N/A	367	50'	COPING MOUNT	715-4-033
122	A-1	230+97 RT, @ CONST. RAMP XX	N/A	367	50'	COPING MOUNT	715-4-033
123	A-1	233+33 RT, @ CONST. RAMP XX	N/A	367	50'	COPING MOUNT	715-4-033
124	A-1	235+75 RT, @ CONST. RAMP XX	N/A	367	50'	COPING MOUNT	715-4-033
125	A-5	238+14 RT, @ CONST. RAMP XX	N/A	367	50'	1.0' FROM BOS	715-4-133
126	A-5	239+69 RT, @ CONST. RAMP XX	N/A	367	50'	1.0' FROM BOS	715-4-133
127	A-5	241+91 RT, @ CONST. RAMP XX	N/A	367	50'	1.0' FROM BOS	715-4-133
U.D. 1	A-4	214+82 LT, @ CONST. RAMP XX	N/A	104	17.5'	WALL MOUNT, CENTERED	715-11-125
U.D. 2	A-4	215+93 LT, @ CONST. RAMP XX	N/A	104	17.5'	PEIR MOUNT	715-11-125
U.D. 3	A-4	215+99 LT, @ CONST. RAMP XX	N/A	104	17.5'	PEIR MOUNT	715-11-125
U.D. 4	A-5	218+24 LT, @ CONST. RAMP XX	N/A	104	17.5'	PEIR MOUNT	715-11-125
U.D. 5	A-5	229+98 LT, @ CONST. RAMP XX	N/A	104	16.5'	WALL MOUNT, CENTERED	715-11-125
PED 1	A-4	307+31 RT, @ CONST. RAMP YY	N/A	66	13.0'	5.0' FROM BOS	715-516-115
PED 2	A-4	308+80 RT, @ CONST. RAMP YY	N/A	66	13.0'	5.0' FROM BOS	715-516-115
PED 3	A-4	309+69 RT, @ CONST. RAMP YY	N/A	66	13.0'	5.0' FROM BOS	715-516-115
PED 4	A-4	310+62 RT, @ CONST. RAMP YY	N/A	66	13.0'	5.0' FROM BOS	715-516-115

- ① REQUIRES DEEPER FOUNDATION. SEE INDEX 17515 FOR MORE INFORMATION.
- ② SEE INDEX 6200 AND 21200 LIGHT POLE PEDESTAL DETAILS FOR MORE INFORMATION.
- ③ REQUIRES 13' FOUNDATION.

REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-7
DATE	DESCRIPTION	DATE	ROAD NO.		COUNTY	FINANCIAL PROJECT ID		
					SR 46	LAKE	238275-2-52-01	

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

MATCHLINE STA. 452+60.00
SEE PROJECT LAYOUT (3)

STA. 313+00.00
CONST. RAMP YY
STA. 450+42.80
CONST. SR 500

STA. 10+00.00
CONST. VERANDA WAY=
STA. 47+18.86
CONST. SR 46

MATCHLINE STA. 59+00.00
SEE PROJECT LAYOUT (2)

STA. 10+00.00
CONST. PINECREST RD.=
STA. 28+25.13
CONST. SR 46

CONST. STANLEY BELL DR.
STA. 10+00.00
CONST. STANLEY BELL DR.=
STA. 31+44.56
CONST. SR 46

STA. 10+00.00
CONST. GROVELAND RD.=
STA. 25+07.21
CONST. SR 46

CONST. GROVELAND RD.

CONST. PINECREST RD.

CONST. VERANDA WAY

CONST. SR 46

BEGIN PROJECT
STA. 24+70
CONST. SR 46

CONST. SR 46

15

BEGIN LIGHTING
STA. 25+34.86
CONST. SR 46

STA. 11+00.00
CONST. CURRIN BLVD.=
STA. 27+57.80
CONST. SR 46

CONST. CURRIN BLVD.

STA. 35+74.01, 0.00' (LT) AH.
SURVEY SR 46 =
STA. 29+99.97, 1.08' (LT) BK.
SURVEY SR 46

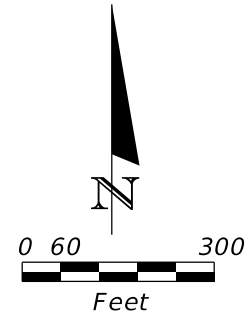
STA. 443+75.31
CONST. SR 500=
STA. 35+55.28
CONST. SR 46

STA. 14+54.89, 0.00' (RT)
SURVEY SR 46=
STA. 20+09.98, 0.40' (RT)
CONST. SR 46

STA. 10+00.00
CONST. POND ROAD=
STA. 47+28.23
CONST. SR 46

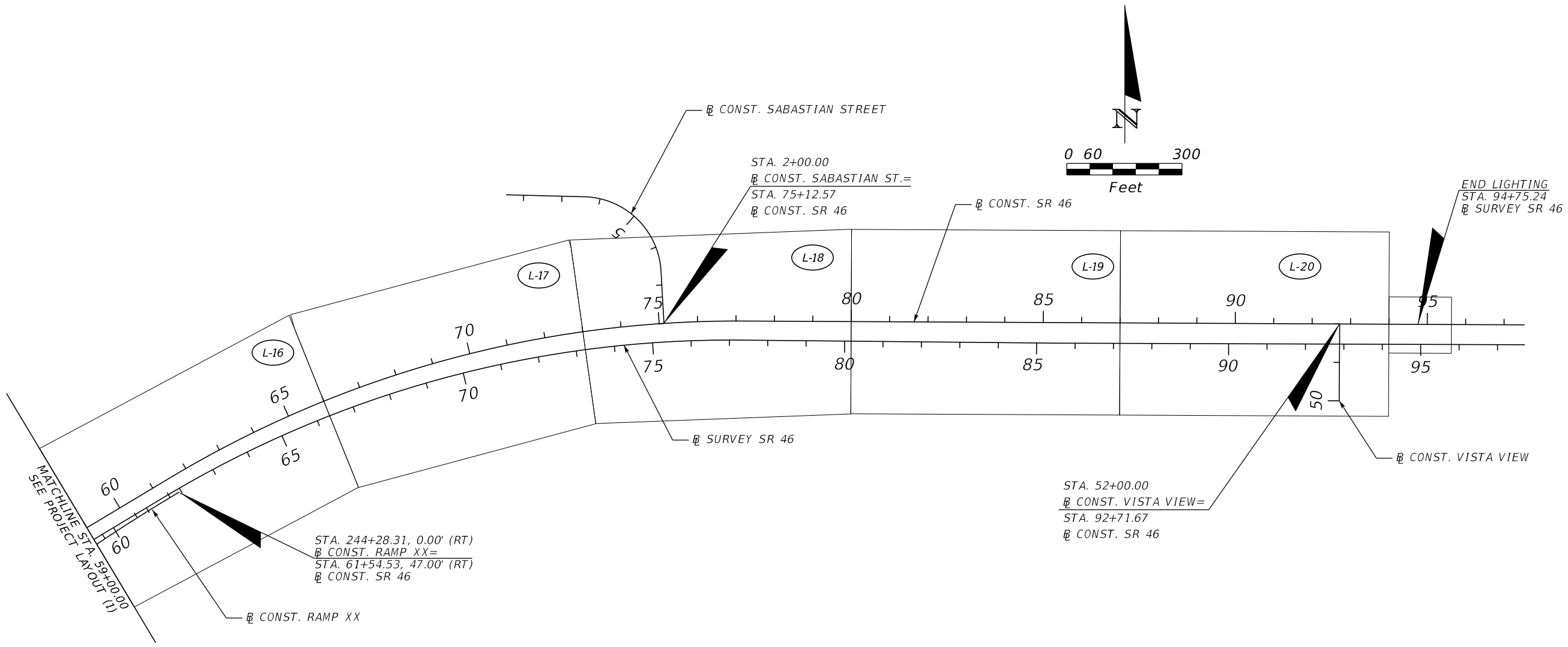
CONST. POND ROAD

STA. 300+00.00
CONST. RAMP YY
STA. 43+59.53
CONST. SR 46



REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT LAYOUT (1)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 46	LAKE		238275-2-52-01

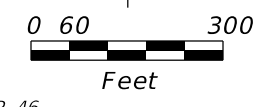
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE STA. 59+00.00
SEE PROJECT LAYOUT (1)

STA. 244+28.31, 0.00' (RT)
CONST. RAMP XX=
STA. 61+54.53, 47.00' (RT)
CONST. SR 46

STA. 2+00.00
CONST. SABASTIAN ST.=
STA. 75+12.57
CONST. SR 46

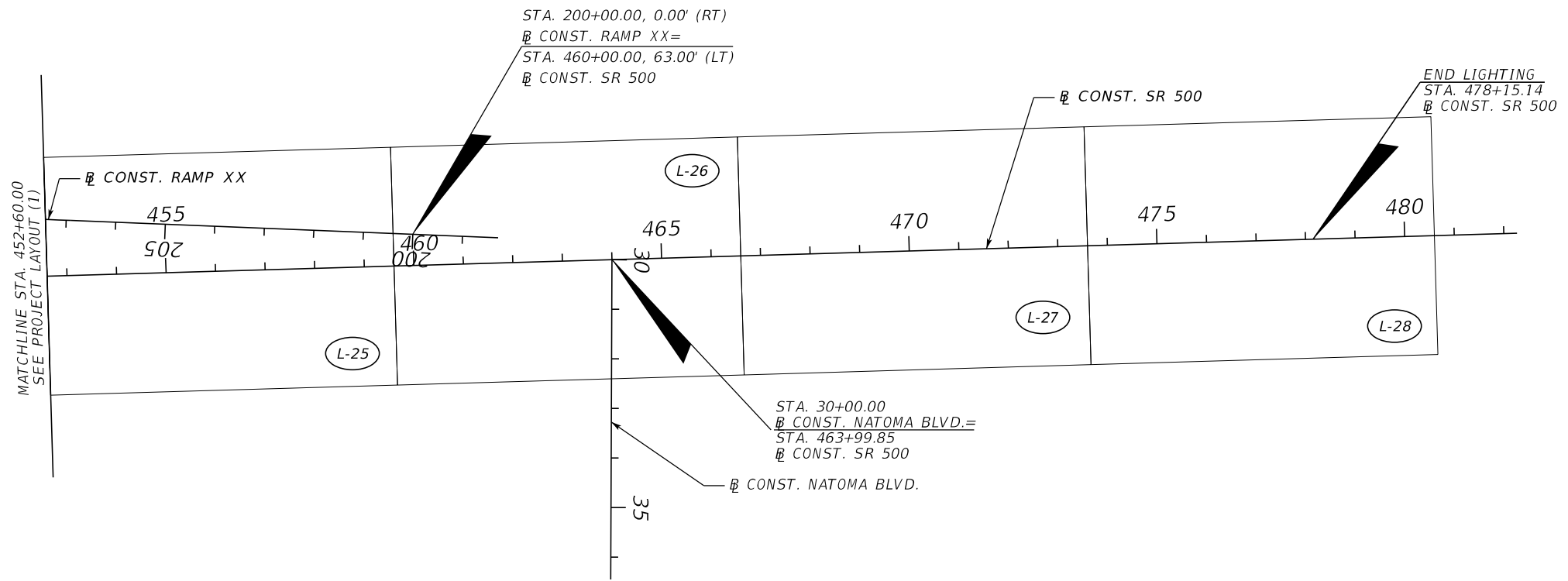
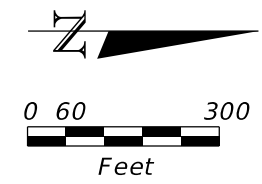


END LIGHTING
STA. 94+75.24
SURVEY SR 46

STA. 52+00.00
CONST. VISTA VIEW=
STA. 92+71.67
CONST. SR 46

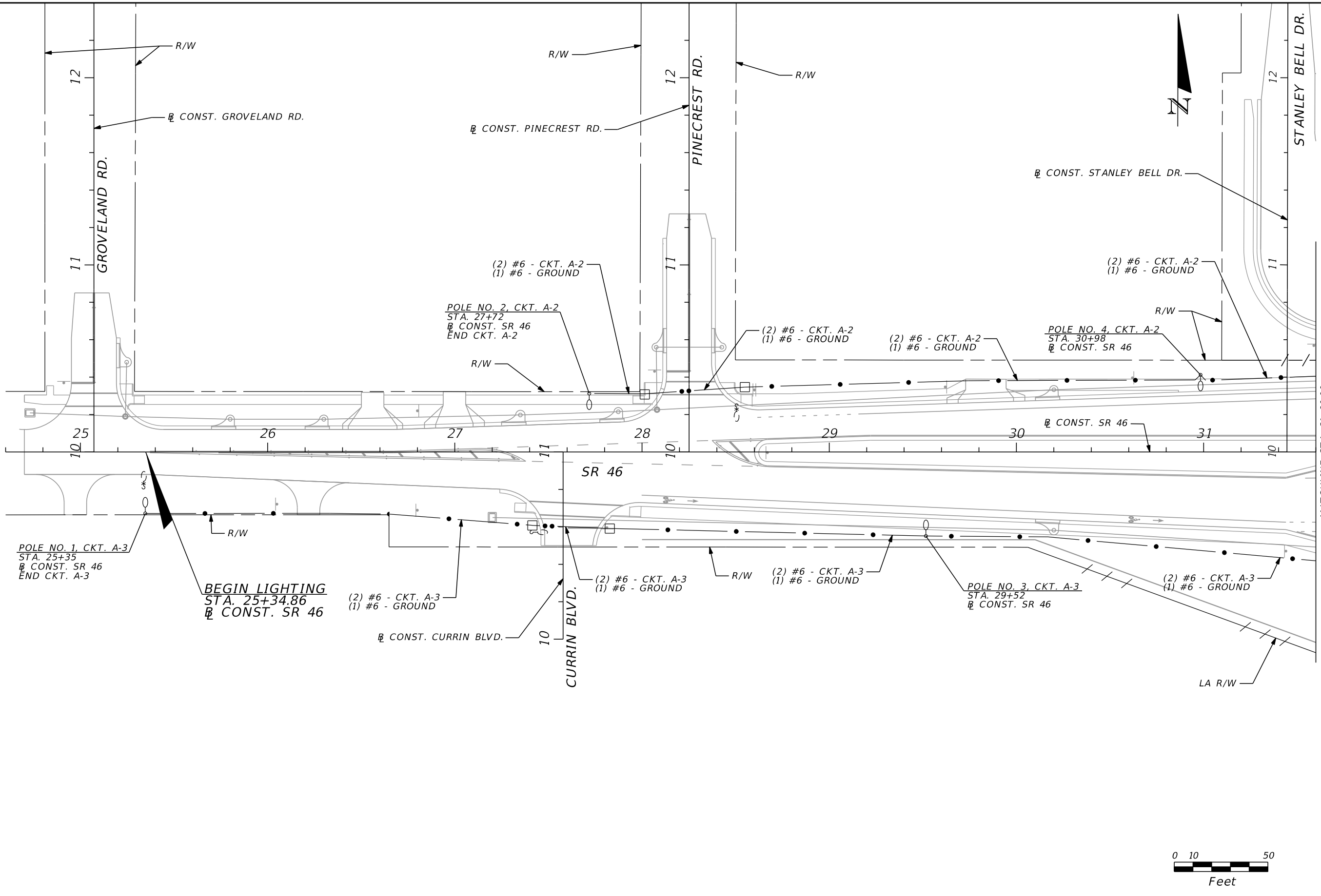
REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT LAYOUT (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-9
					SR 46	LAKE	238275-2-52-01		

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



REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT LAYOUT (3)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-10
					SR 46	LAKE	238275-2-52-01		

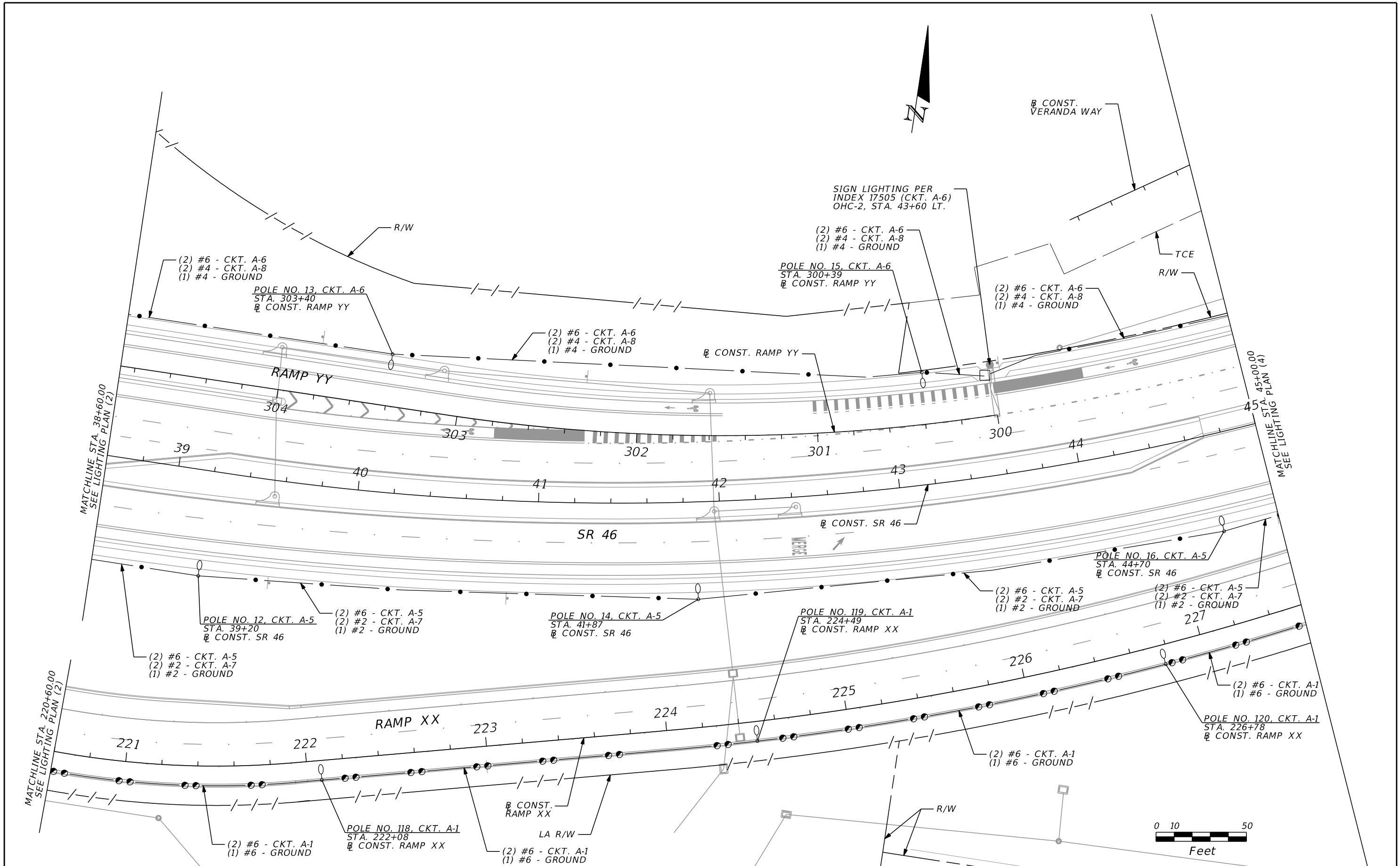
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE STA. 31+60.00
SEE LIGHTING PLAN (2)

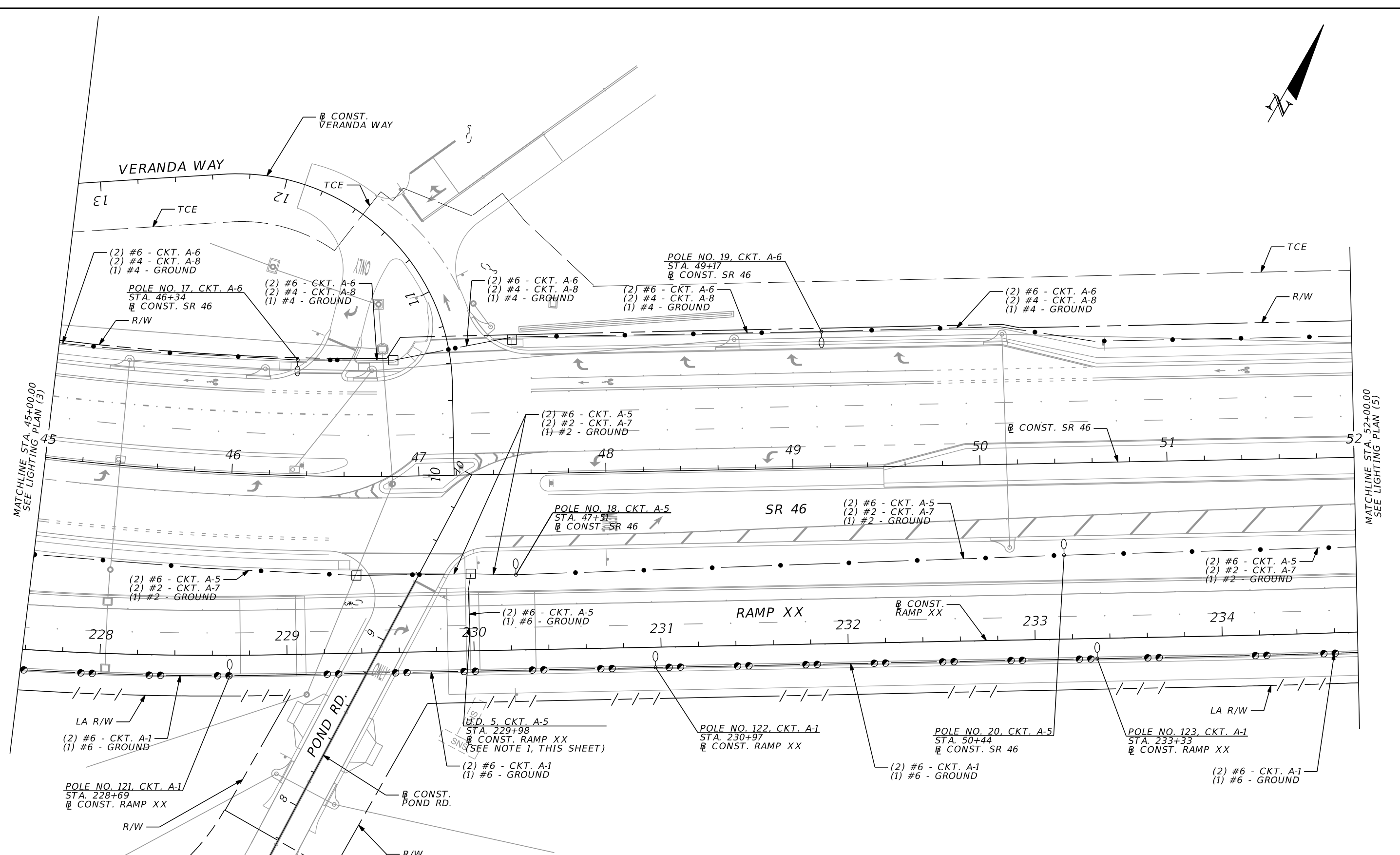
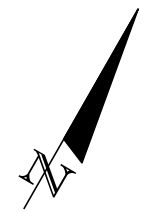
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (1)	SHEET NO. L-11
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 46	LAKE	238275-2-52-01		



REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (3)	SHEET NO. L-13
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 46	LAKE	238275-2-52-01		

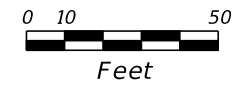
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE STA. 45+00.00
SEE LIGHTING PLAN (3)

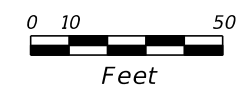
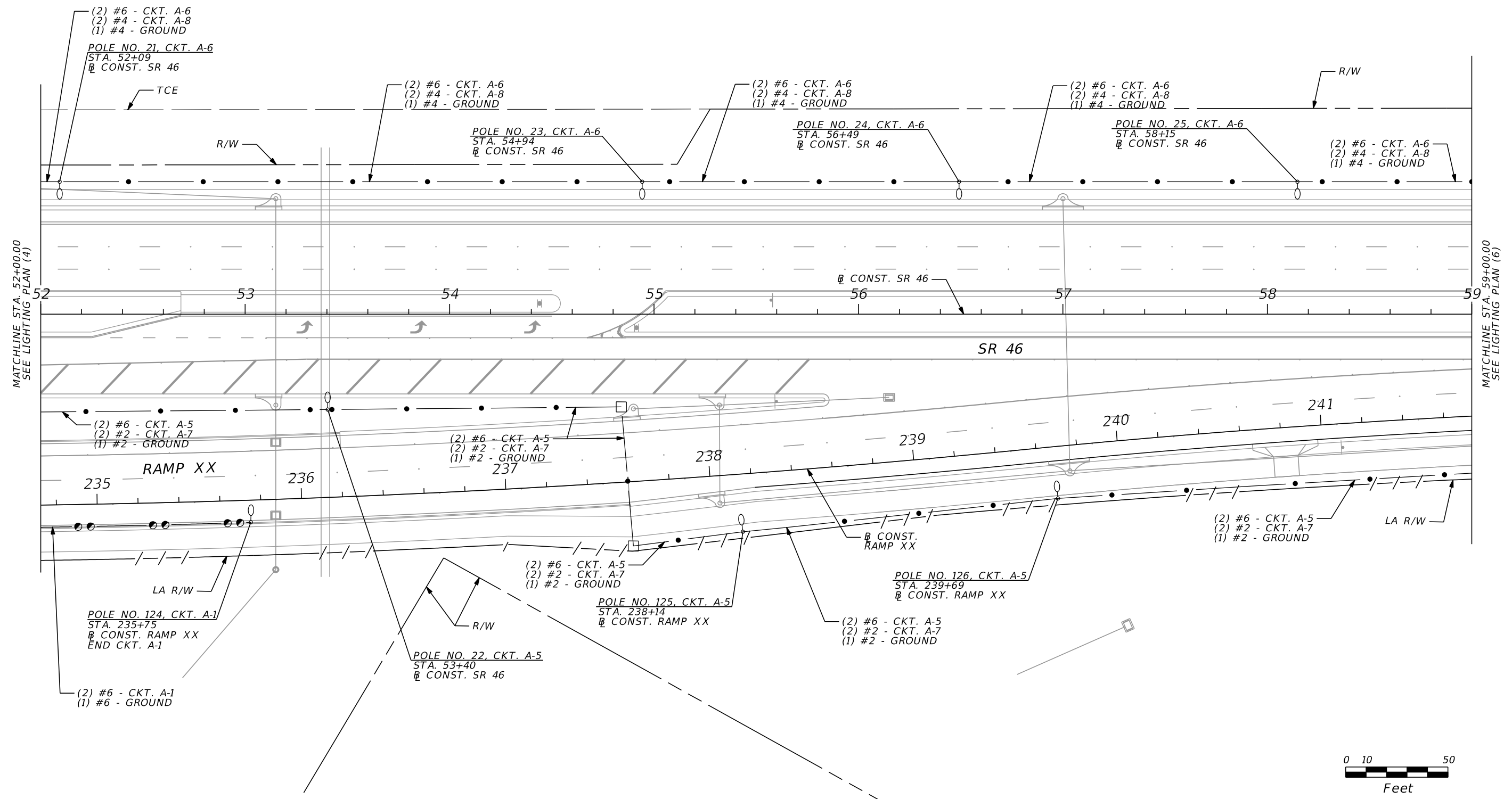
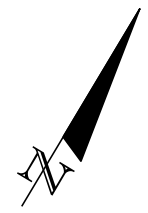
MATCHLINE STA. 52+00.00
SEE LIGHTING PLAN (5)

NOTES:
1. U.D. 5 RISER SHALL BE:
(2) #6 - CKT. A-5
(1) #6 - GROUND



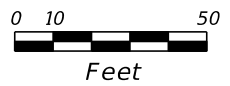
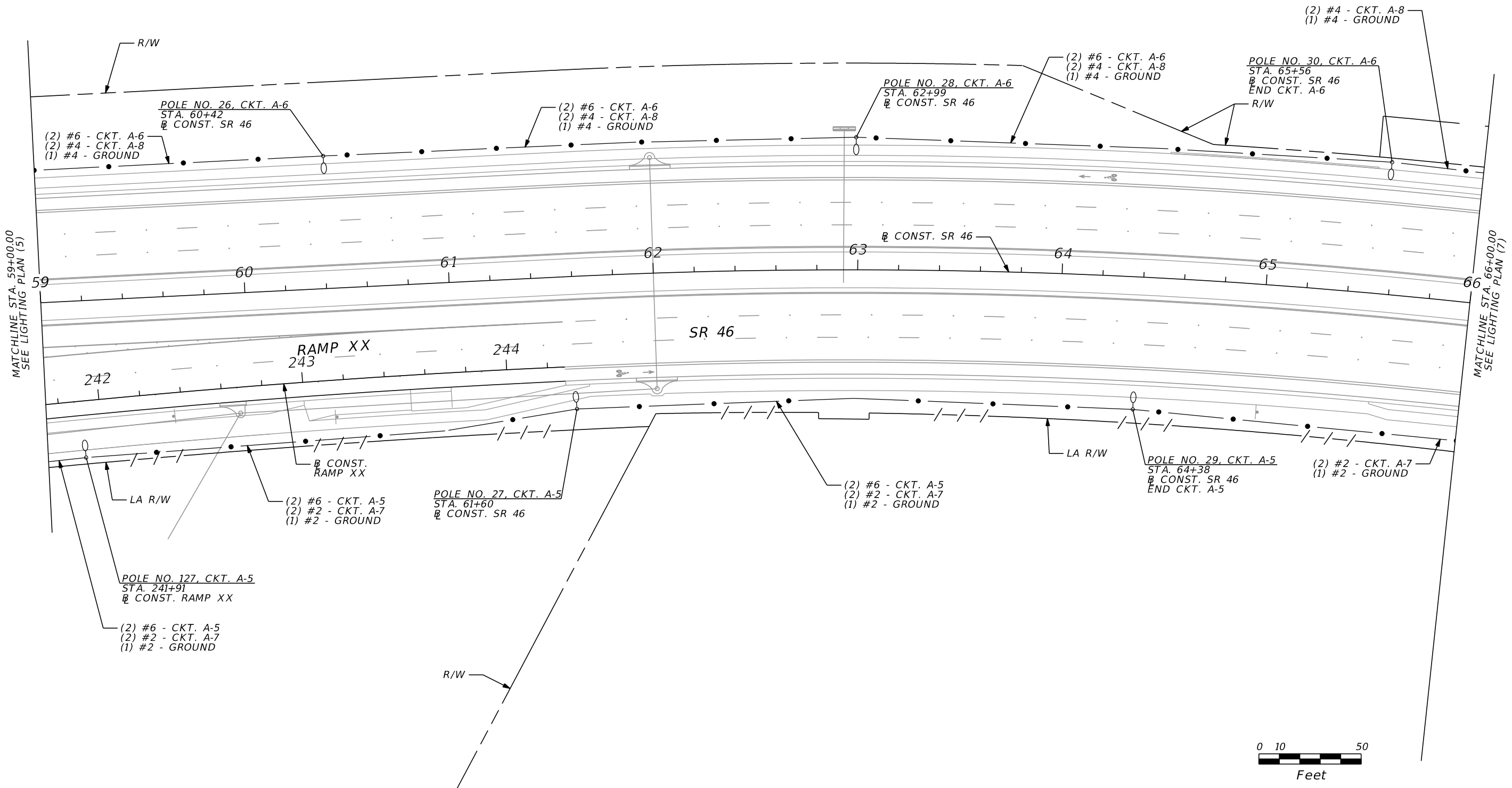
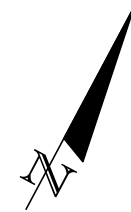
REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (4)	SHEET NO. L-14
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 46	LAKE	238275-2-52-01		

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



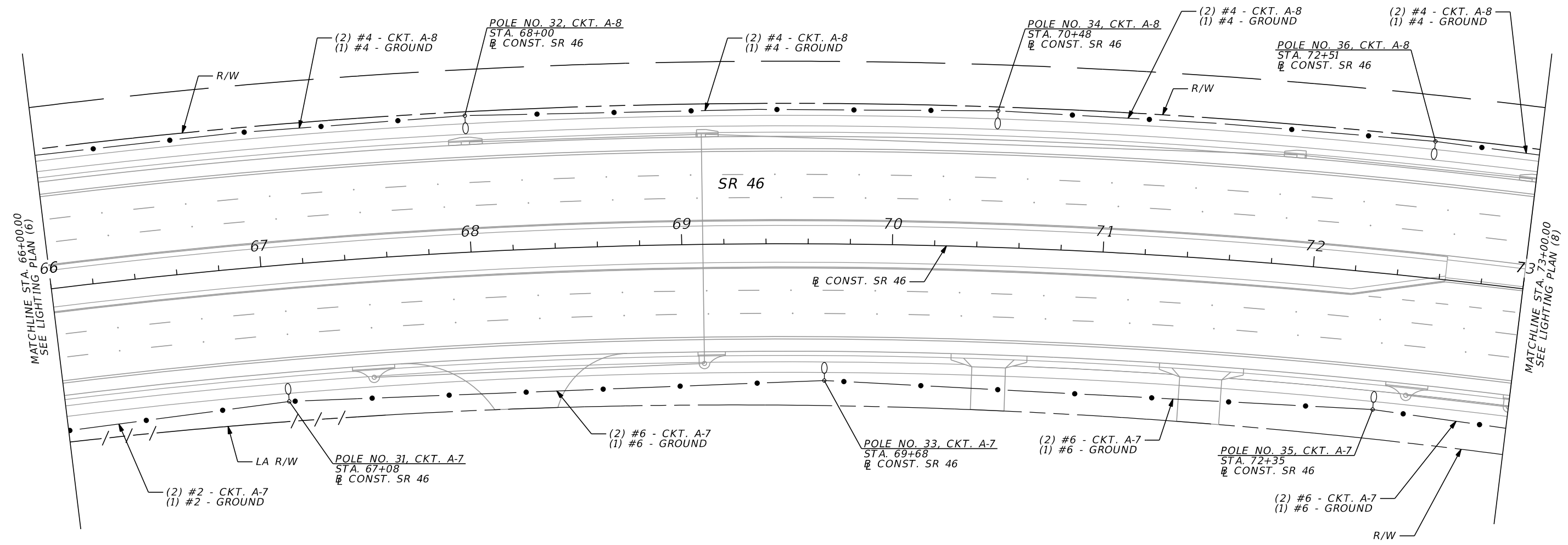
REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (5)	SHEET NO. L-15
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 46	LAKE	238275-2-52-01		

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



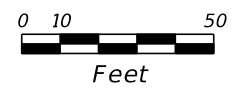
REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (6)	SHEET NO. L-16
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 46	LAKE	238275-2-52-01		

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

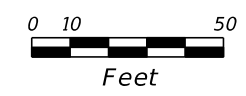
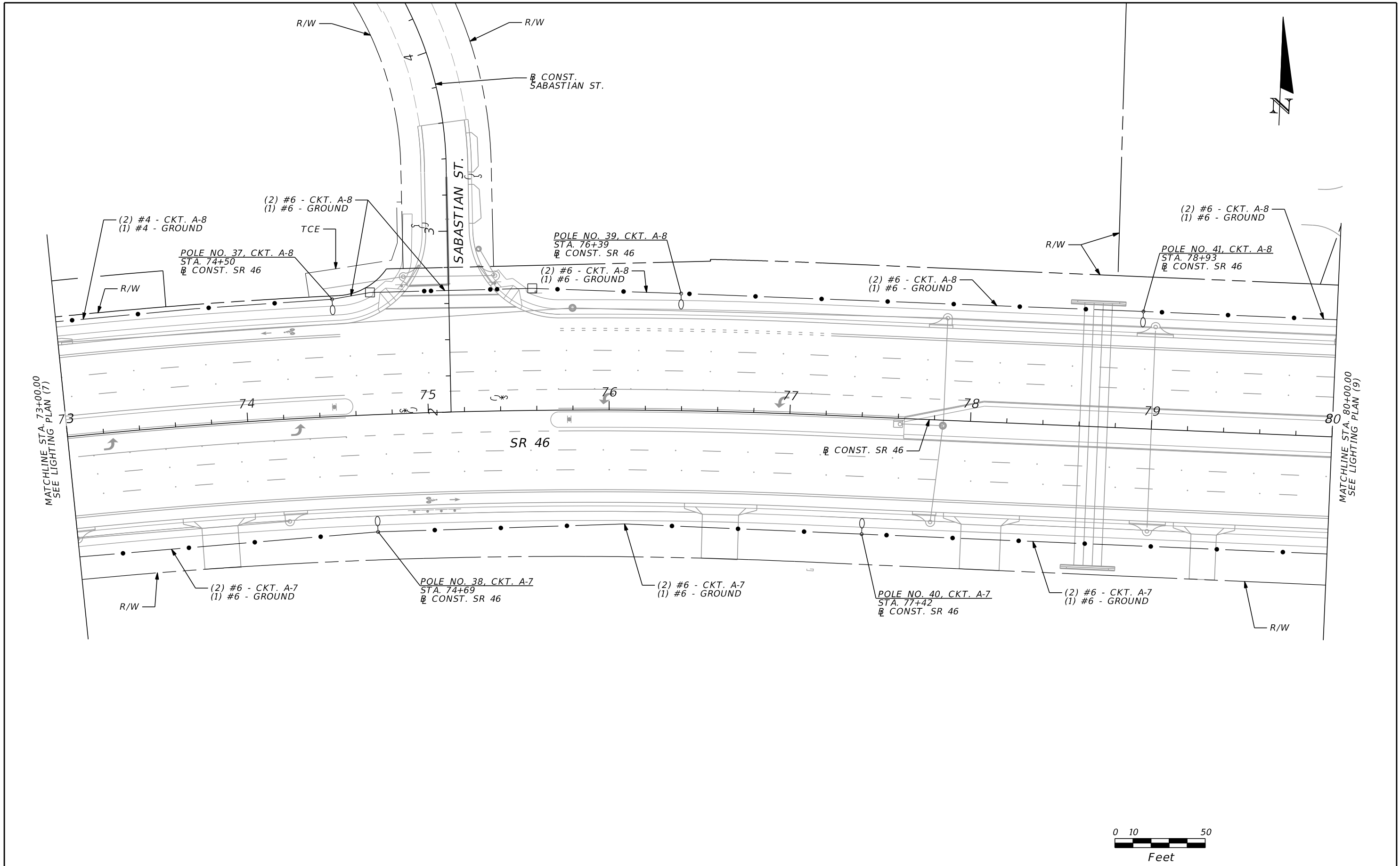


MATCHLINE STA. 66+00.00
SEE LIGHTING PLAN (6)

MATCHLINE STA. 73+00.00
SEE LIGHTING PLAN (8)

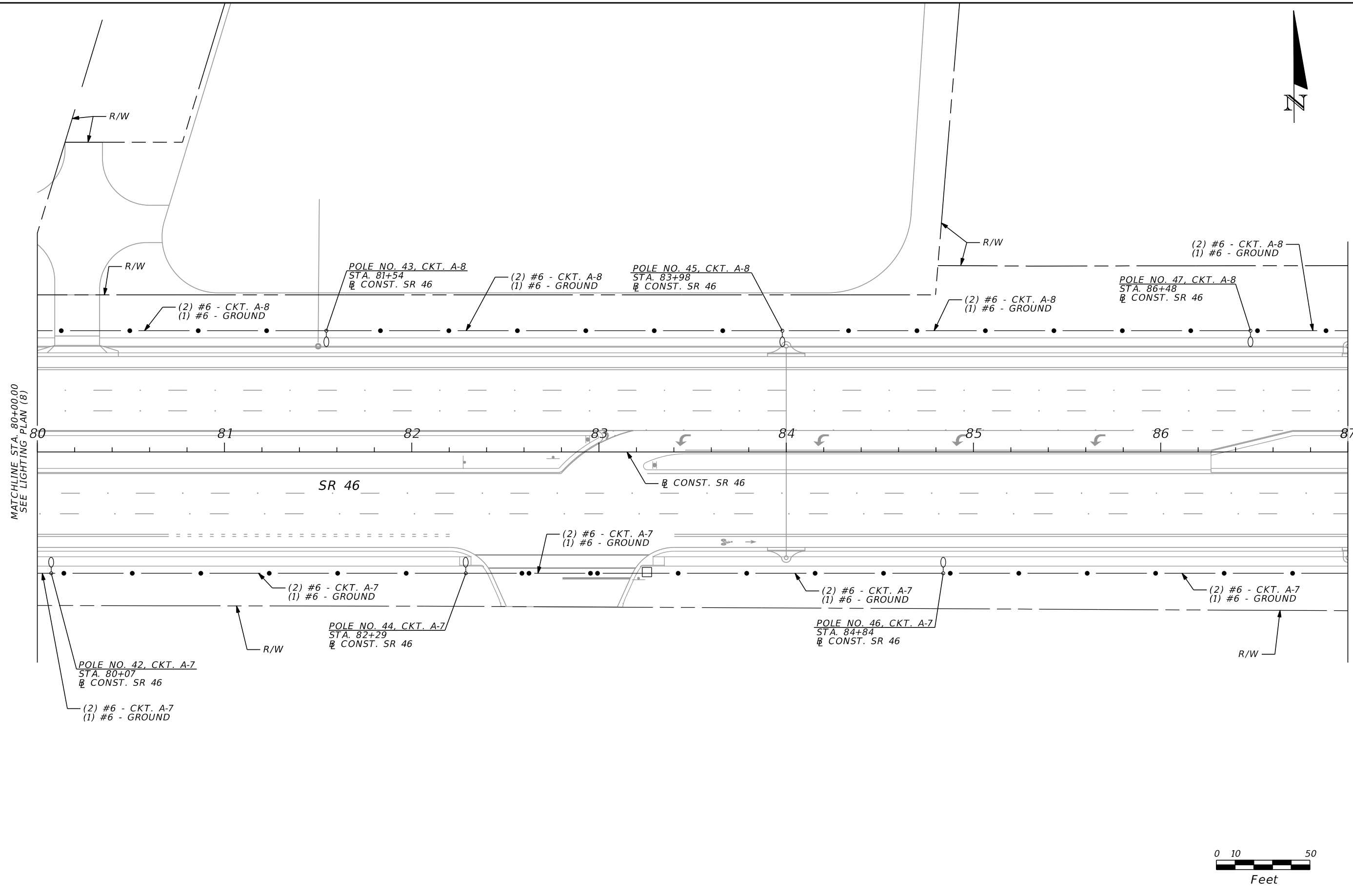


REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (7)	SHEET NO. L-17
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 46	LAKE	238275-2-52-01		



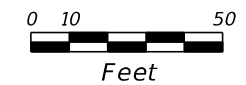
REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (8)	SHEET NO. L-18
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 46	LAKE	238275-2-52-01		

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



MATCHLINE STA. 80+00.00
SEE LIGHTING PLAN (8)

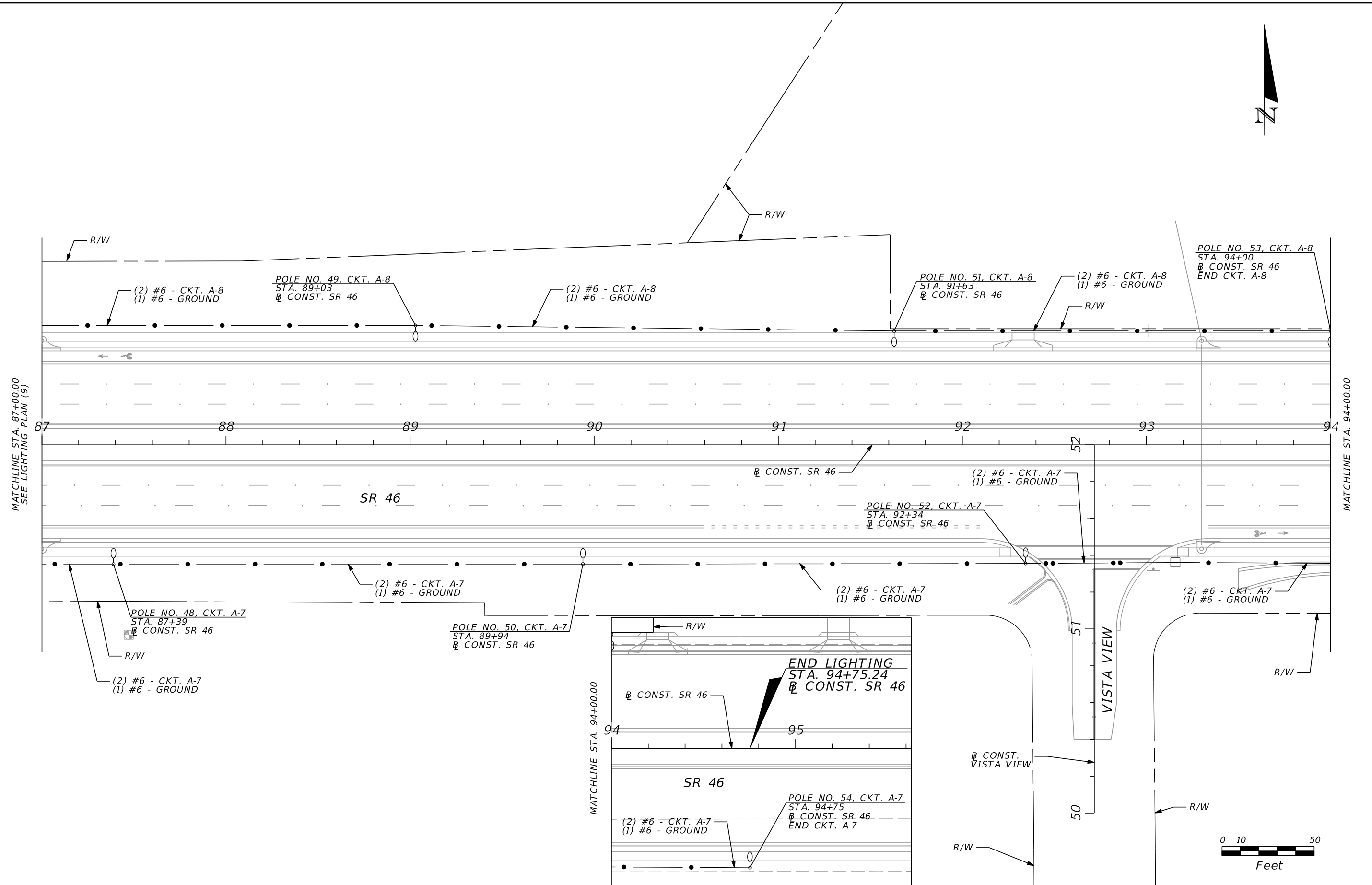
MATCHLINE STA. 87+00.00
SEE LIGHTING PLAN (10)



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

REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-19
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 46	LAKE	238275-2-52-01	

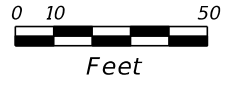
LIGHTING PLAN (9)



MATCHLINE STA. 87+00.00
SEE LIGHTING PLAN (9)

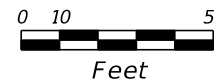
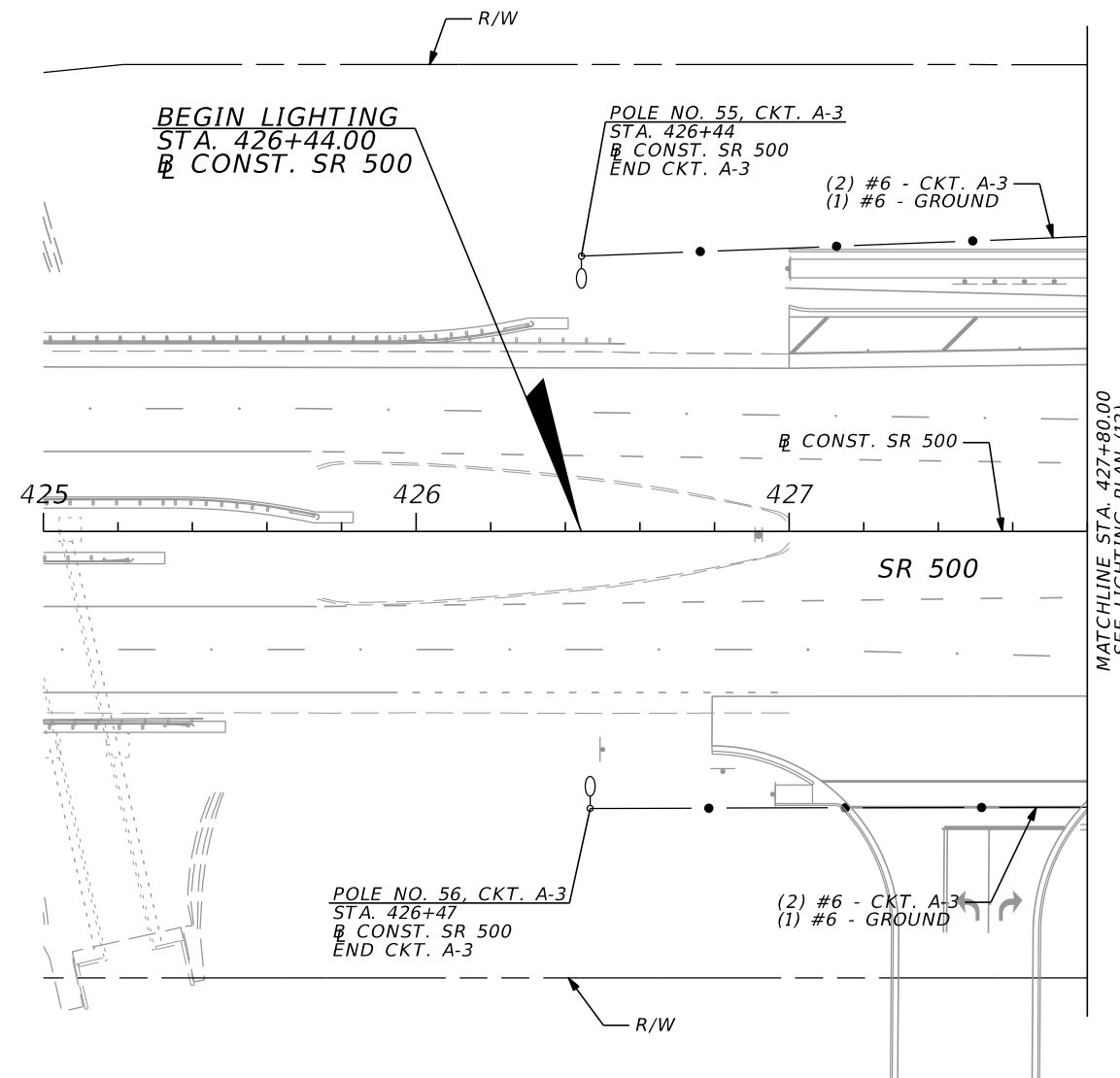
MATCHLINE STA. 94+00.00

MATCHLINE STA. 94+00.00



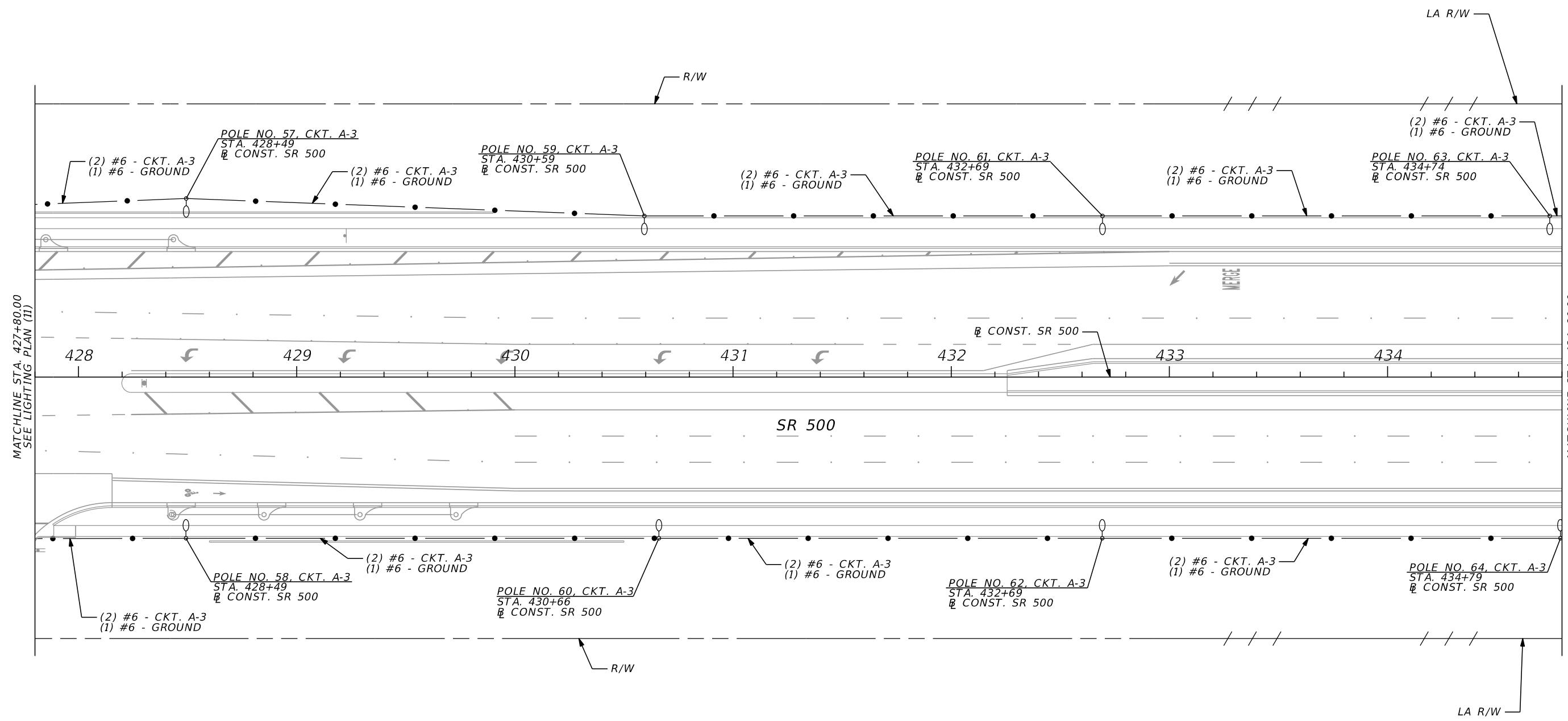
REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (10)	SHEET NO. L-20
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 46	LAKE	238275-2-52-01		

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



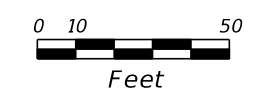
MATCHLINE STA. 427+80.00
SEE LIGHTING PLAN (12)

REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<i>LIGHTING PLAN (11)</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-21
					SR 46	LAKE	238275-2-52-01		



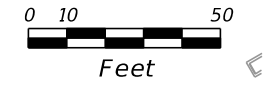
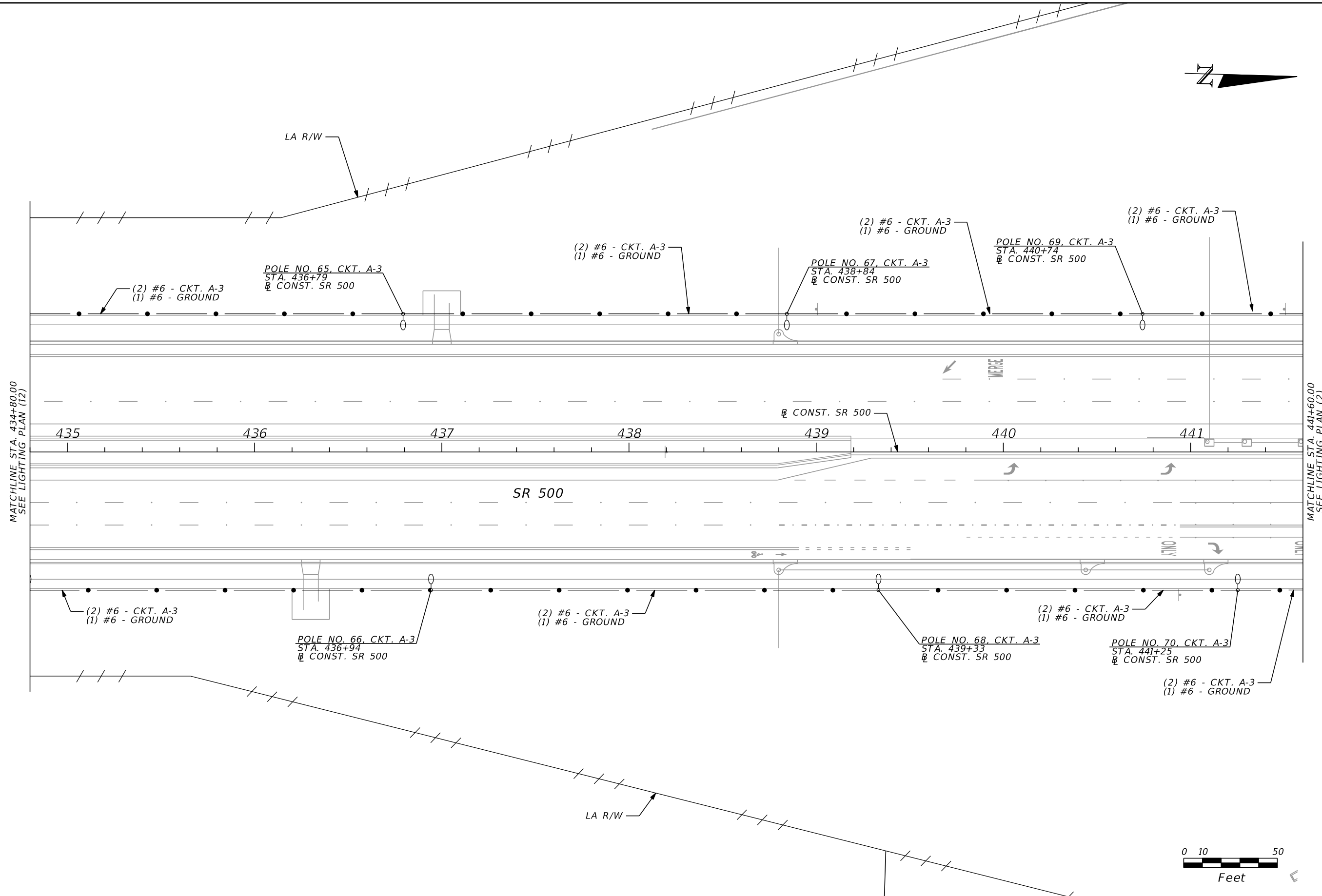
MATCHLINE STA. 427+80.00
SEE LIGHTING PLAN (11)

MATCHLINE STA. 434+80.00
SEE LIGHTING PLAN (13)



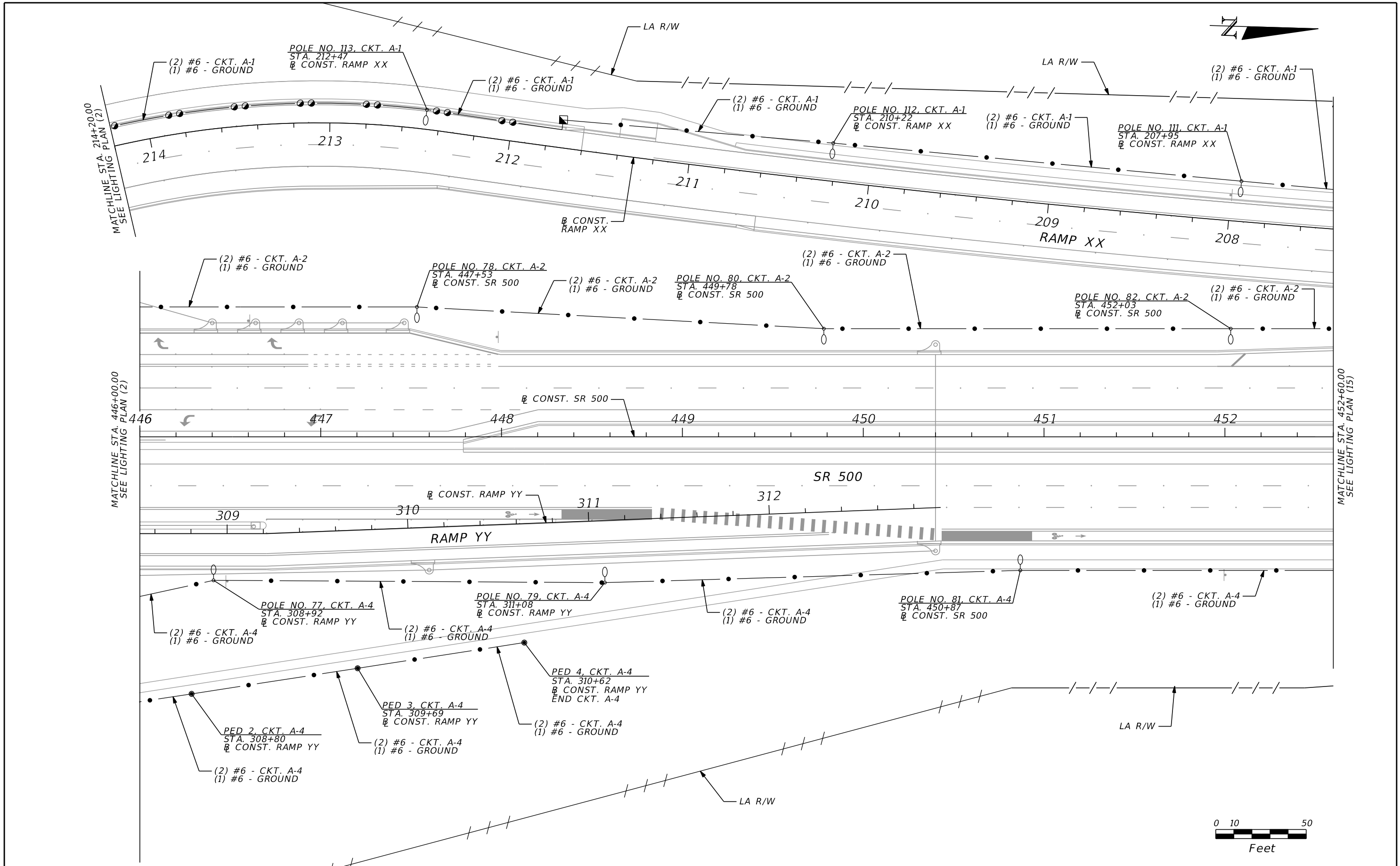
REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (12)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-22
					SR 46	LAKE	238275-2-52-01		

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



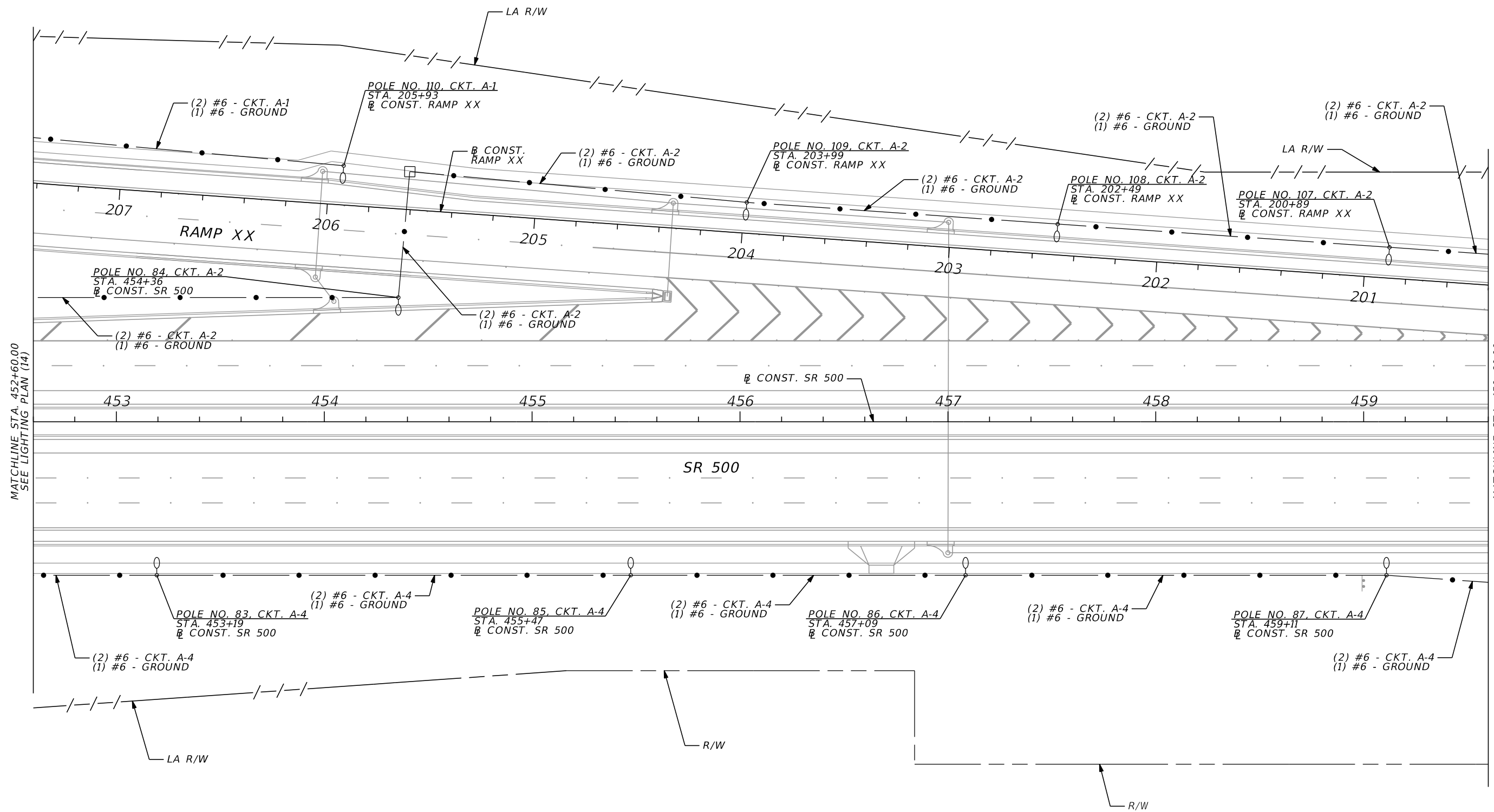
REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (13)	SHEET NO. L-23
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 46	LAKE	238275-2-52-01		

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



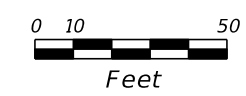
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (14)	SHEET NO. L-24
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 46	LAKE	238275-2-52-01		



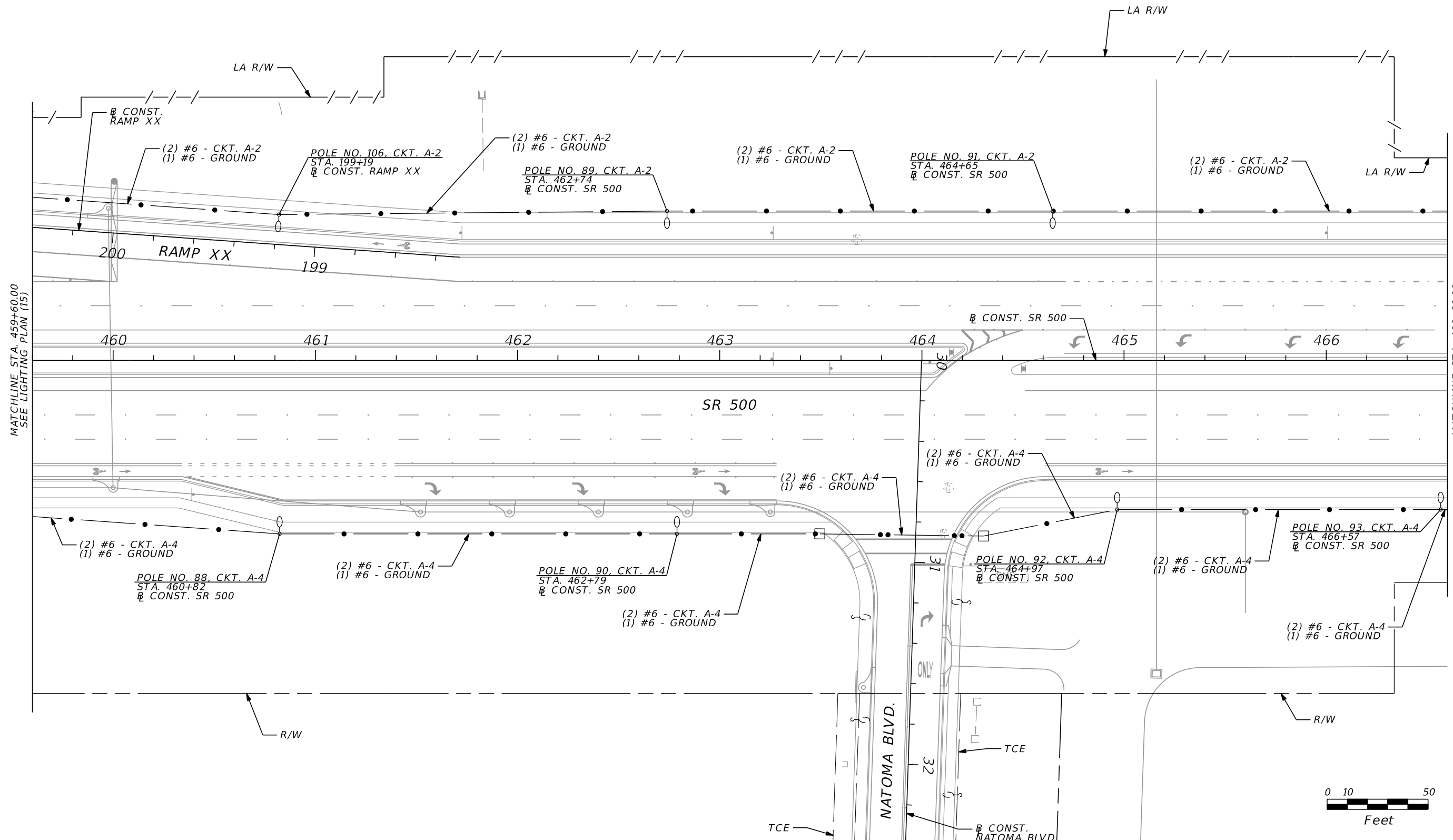
MATCHLINE STA. 452+60.00
SEE LIGHTING PLAN (14)

MATCHLINE STA. 459+60.00
SEE LIGHTING PLAN (16)



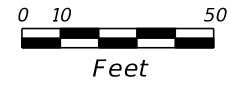
REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (15)	SHEET NO. L-25
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 46	LAKE	238275-2-52-01		

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



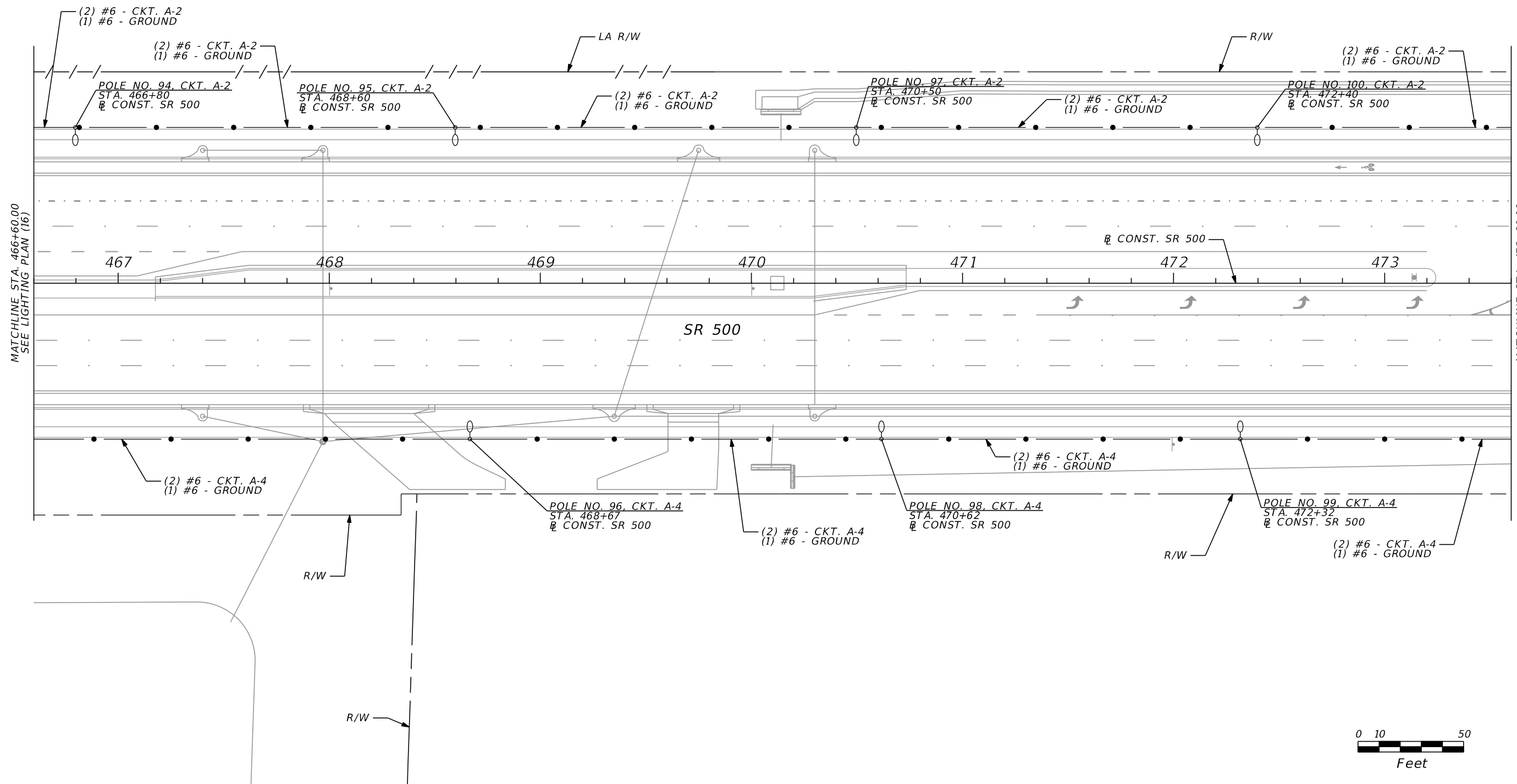
MATCHLINE STA. 459+60.00
SEE LIGHTING PLAN (15)

MATCHLINE STA. 466+60.00
SEE LIGHTING PLAN (17)



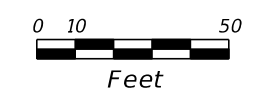
REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (16)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-26
					SR 46	LAKE	238275-2-52-01		

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



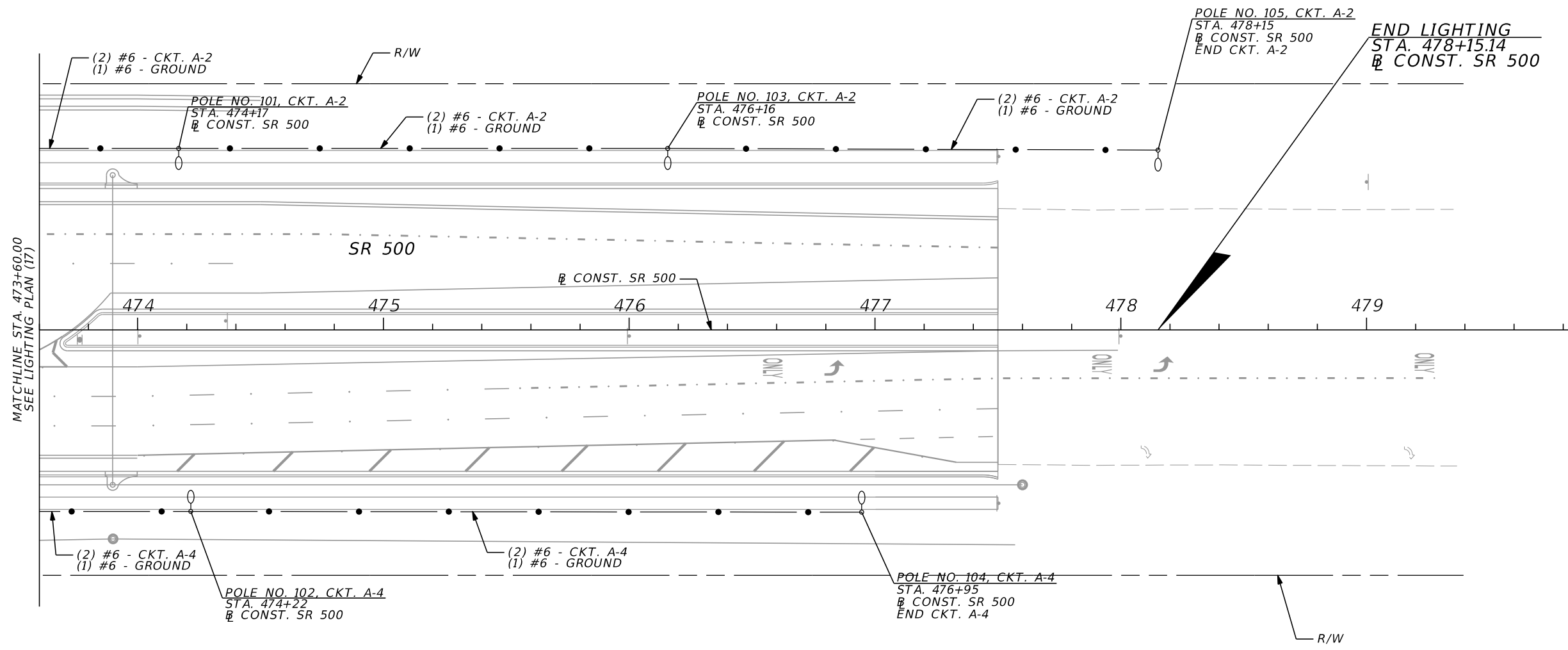
MATCHLINE STA. 466+60.00
SEE LIGHTING PLAN (16)

MATCHLINE STA. 473+60.00
SEE LIGHTING PLAN (18)

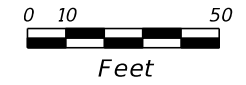


REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (17)	SHEET NO. L-27
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 46	LAKE	238275-2-52-01		

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

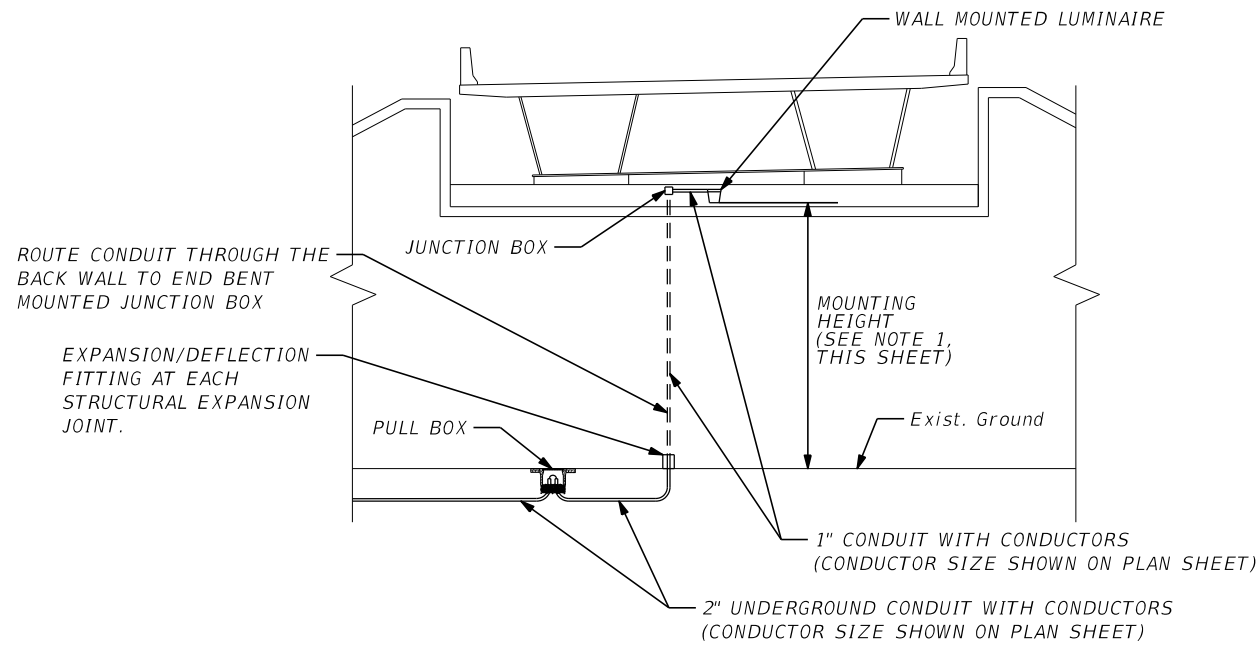


MATCHLINE STA. 473+60.00
SEE LIGHTING PLAN (17)



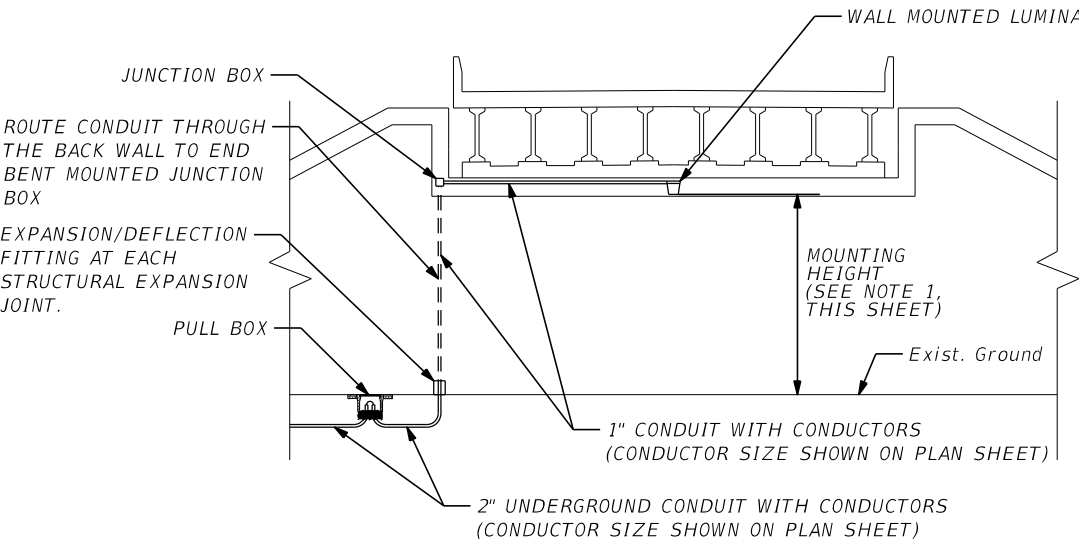
REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (18)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-28
					SR 46	LAKE	238275-2-52-01		

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



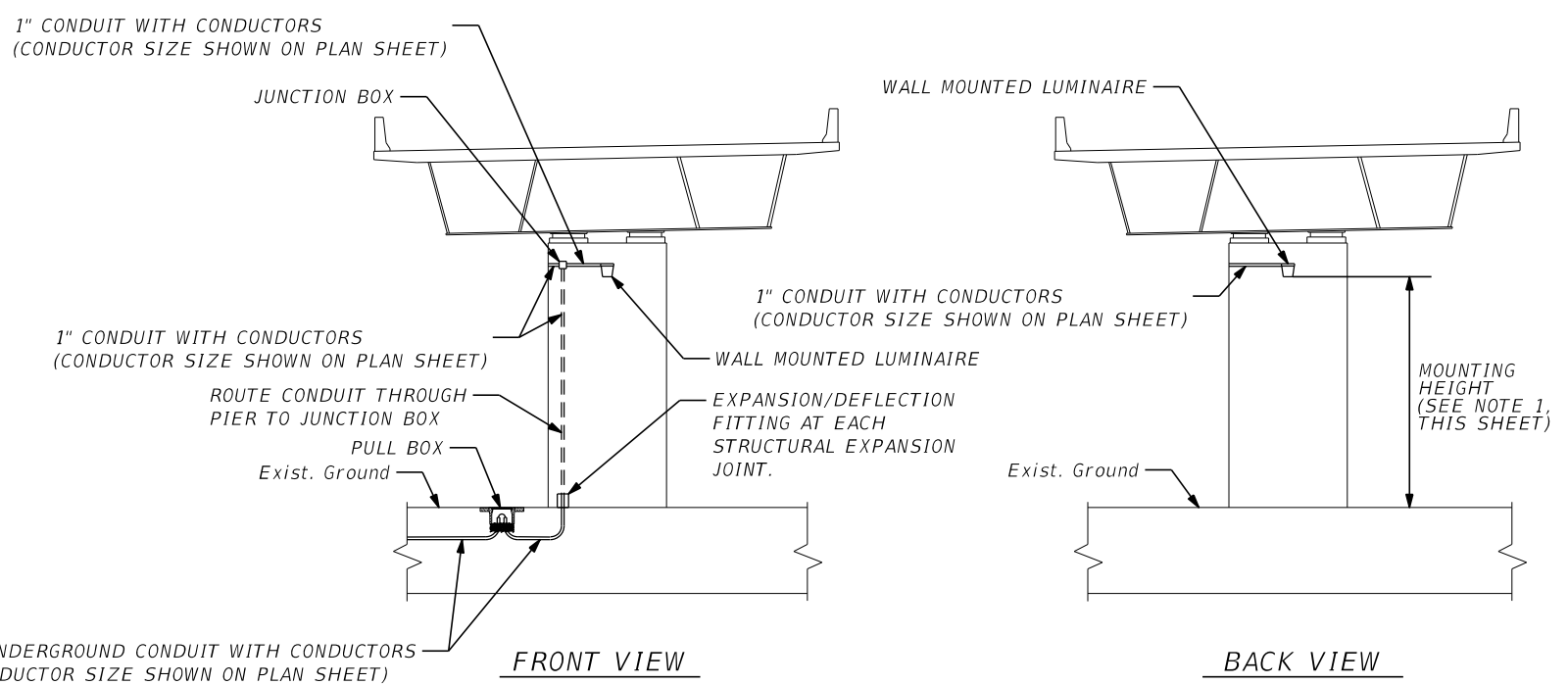
WALL MOUNTED UNDERDECK FIXTURE
N.T.S.

DETAIL 1 - RAMP XX (BRIDGE NO. 110095)



WALL MOUNTED UNDERDECK FIXTURE
N.T.S.

DETAIL 3 - RAMP XX (BRIDGE NO. 110094)



PIER MOUNTED UNDERDECK FIXTURE
N.T.S.

DETAIL 2 - RAMP XX (BRIDGE NO. 110095)

- NOTES:
1. REFER TO POLE DATA - UNDERDECK LIGHTING TABLE FOR MOUNTING HEIGHTS.
 2. SEE SPECIFIC UNDERDECK LIGHTING DETAIL PLAN VIEW FOR CONDUCTOR SIZES AND ADDITIONAL CONDUIT ROUTING DETAILS. ALL SURFACE MOUNTED CONDUIT SHALL BE MOUNTED TO PIERS. THERE SHALL BE NO DRILLING THROUGH BEAMS.
 3. FOR SURFACE MOUNTED CONDUIT, PROVIDE EXPANSION/DEFLECTION FITTING AT ALL SUBSTRUCTURE SUPPORTS FOR LATERAL MOVEMENTS IN THE BRIDGE LONGITUDINAL DIRECTION - 2" MINIMUM.

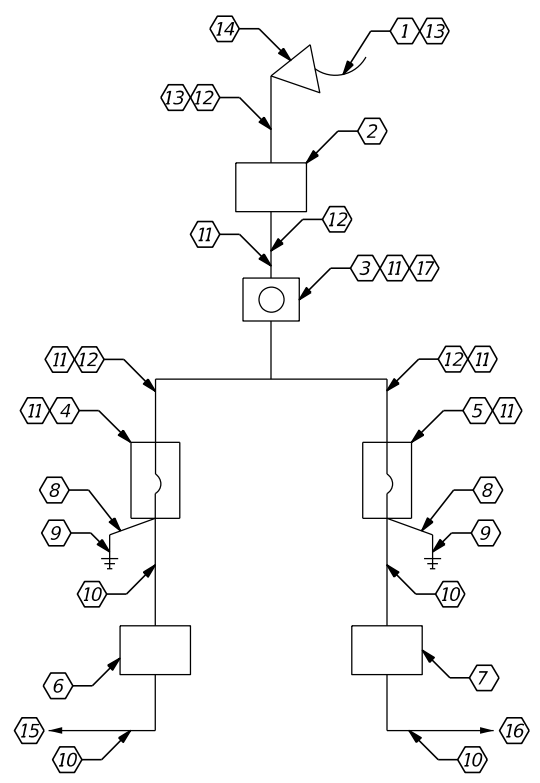
REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UNDERDECK LIGHTING DETAIL SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 46	LAKE		238275-2-52-01

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

PANEL 'A'												MAINS: 200 A.,M.L.O.	
												VOLTAGE: 240/480 V.,1*, 3W.	
LOAD	CND. SIZE	WIRE SIZE	CKT. AMPS	BKR. P	CIR. NO.	VOLTS-AMPS		CIR. NO.	CKT. AMPS	BKR. P	WIRE SIZE	CND. SIZE	LOAD
						ØA	ØB						
A-1	*	6	40	2	1	5616							
"						5616							
							7872	2	40	2	6	*	A-2
A-3	*	6	40	2	3	8592							"
						8592							
							7680	4	40	2	6	*	A-4
A-5	*	6	40	2	5	5088							"
						5088							
							4608	6	40	2	6	*	A-6
A-7	*	2	40	2	7	4512							"
						4512							
							4512	8	40	2	4	*	A-8
						4512							"

NOTES:
 * 1. SEE PLANS
 2. CONTROL PANEL ENCLOSURE SHALL BE NEMA 4X STAINLESS STEEL GROUND MOUNT.
 3. THE CITY OF MT. DORA WILL RUN SERVICE WIRE FROM SERVICE POLE TO PULL BOX AT LOAD CENTER.

TOTAL DEMAND	44,480 VA
TOTAL DEMAND	92.7 AMPS
NO. OF FIXTURES	136
MOUNTING	SURFACE
MAIN:	35,000 AMPS AIC
BRANCH:	18,000 AMPS AIC



ONE LINE DIAGRAM
 SEE INDEX 17736 FOR
 ADDITIONAL DETAILS

- KEY NOTES:**
- ① 240/480V, SINGLE PHASE, 3 WIRE ELECTRIC DISTRIBUTION OVERHEAD SERVICE DROP. BY UTILITY.
 - ② ELECTRICAL SERVICE POINT. PULL BOX BY CONTRACTOR.
 - ③ LIGHTING METER SOCKET.
 - ④ LIGHTING SERVICE MAIN DISCONNECT.
 - ⑤ BOX GIRDER MAINTENANCE LIGHTING SERVICE MAIN DISCONNECT.
 - ⑥ LIGHTING PULL BOX.
 - ⑦ BOX GIRDER MAINTENANCE LIGHTING PULL BOX.
 - ⑧ #6 AWG INSULATED COPPER GROUND WIRE IN 1/2" RGS CONDUIT.
 - ⑨ GROUNDING ELECTRODE.
 - ⑩ UNDERGROUND FEEDER CONDUIT.
 - ⑪ MOUNT ON CONCRETE POLE.
 - ⑫ SERVICE FEEDER (#2 AWG) IN RGS CONDUIT.
 - ⑬ MOUNT ON RISER POLE. BY UTILITY.
 - ⑭ WEATHERHEAD. BY UTILITY.
 - ⑮ ROADWAY LIGHTING CONTROL PANEL (240/480V SERVICE). SEE INDEX 17504, NOTE 5.
 - ⑯ BOX GIRDER MAINTENANCE LIGHTING MINI POWER CENTER (240/480V SERVICE). SEE INDEX 21240 AND MAINTENANCE LIGHTING DETAILS IN STRUCTURE PLANS FOR ONE LINE DIAGRAM.
 - ⑰ SERVICE FEEDER TO BE TAPPED IN ACCORDANCE WITH NEC 230.46.

REVISIONS				JOHN K. STERRETT, P.E. P.E. NO. 15547 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-30
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 46	LAKE	238275-2-52-01	

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