

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

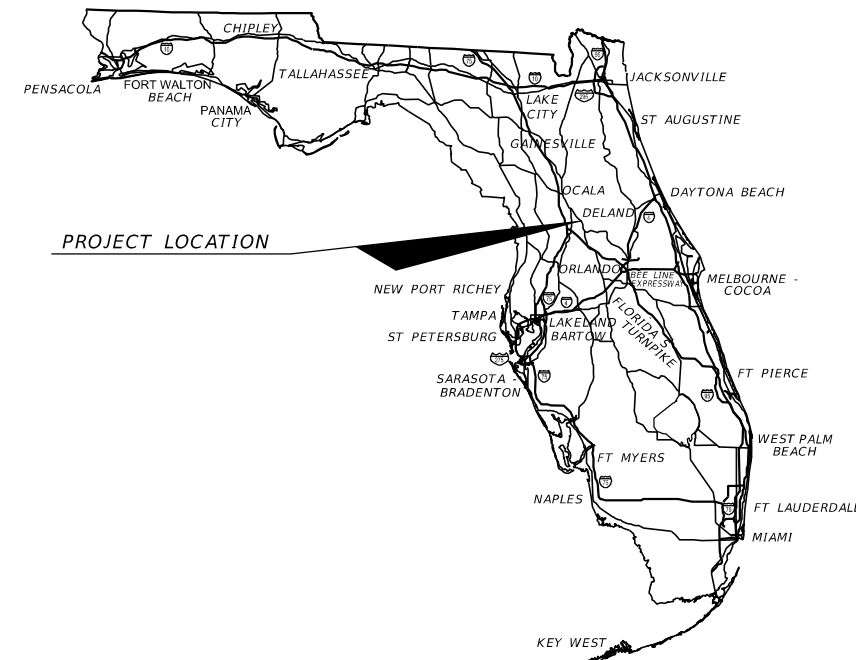
CONTRACT PLANS

FINANCIAL PROJECT ID 238275-2-52-01

LAKE COUNTY (11130)

STATE ROAD NO. 46

LIGHTING PLANS



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	PROJECT 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 SHOP DRAWINGS  
TO BE SUBMITTED TO:**  
SCOTT G. HORLANDER, P.E.  
P.E. NO. 46624  
PROTEAN DESIGN GROUP  
100 EAST PINE STREET, SUITE 600  
ORLANDO FLORIDA 32801  
PHONE (407) 246-0044  
CERTIFICATE OF AUTHORIZATION NUMBER 7865

**PLANS PREPARED BY:**  
PROTEAN DESIGN GROUP  
100 EAST PINE STREET, SUITE 600  
ORLANDO FLORIDA 32801  
PHONE (407) 246-0044  
VENDOR NO. F59-3473441  
CONTRACT NO. C9886  
CERTIFICATE OF AUTHORIZATION NO. 7865

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

NOTE: THIS PROJECT IS TO BE LET TO  
CONTRACT WITH FINANCIAL PROJECT  
ID 238275-3-52-01.

**PLANS UPDATE  
3/24/16**

KEY SHEET REVISIONS	
DATE	DESCRIPTION

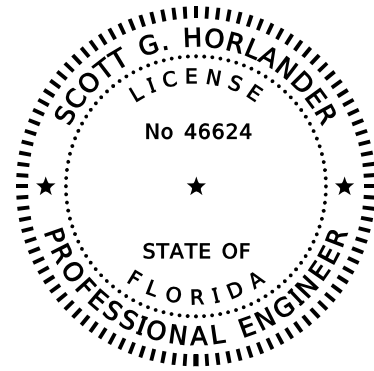
LIGHTING PLANS  
ENGINEER OF RECORD: SCOTT G. HORLANDER, P.E.

P.E. NO.: 46624

FISCAL YEAR	SHEET NO.
17	L-1

FDOT PROJECT MANAGER: MEDHAT HASSAN, P.E.

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.

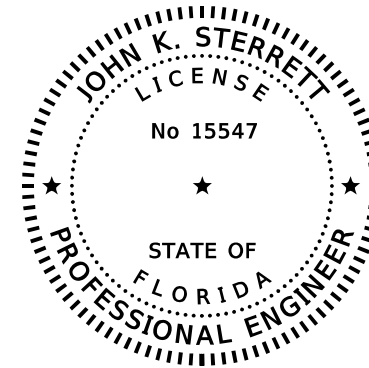
PROTEAN DESIGN GROUP  
100 EAST PINE STREET, SUITE 600  
ORLANDO, FLORIDA 32801  
CERTIFICATE OF AUTHORIZATION NUMBER 7865  
SCOTT G. HORLANDER, P.E. NO. 46624

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	PROJECT NOTES
L-6 - L-7	POLE DATA AND LEGEND
L-8 - L-10	PROJECT LAYOUT
L-11 - L-28	LIGHTING PLAN
L-30	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-29	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.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 46	LAKE	238275-2-52-01	L-2

*SIGNATURE SHEET*

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	930		2640		1279		1308		1465		1401		1400		1312		1303		1400		14438				
630-2-12	CONDUIT, F&I, DIRECTIONAL BORE	LF	94		-		-		127		-		-		-		90		97		82		490				
630-2-15	CONDUIT, F&I, BRIDGE MOUNT	LF	-		80		-		20		-		-		-		-		-		-		100				
635-2-11	PULL & SPLICE BOX, F&I, 13"X24	EA	8		35		6		9		9		6		6		7		7		8		101				
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8 TO NO. 6	LF	3072		11522		4670		5110		3240		2384		1734		3744		4200		4446		44122				
715-1-13	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 4 TO NO. 2	LF	-		3894		3834		4206		4394		4203		2466		462		-		-		23459				
715-4-133	LIGHT POLE COMPLETE, F&I, W.S. 110, 50'	EA	4		17		8		7		8		6		6		5		6		7		74				
715-7-12	LOAD CENTER, F&I, PRIMARY VOLTAGE	EA	-		1		-		-		-		-		-		-		-		-		1				
715-11-125	LUMINAIRE, F&I, UNDER DECK, WALL MOUNT	EA	-		4		-		1		-		-		-		-		-		-		5				
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				

NOTICE: 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	1640	1324	1400	748											10108	24546					
630-2-12	CONDUIT, F&I, DIRECTIONAL BORE	LF	-	-	-	-	-	82	-	-											82	572					
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	159					
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8 TO NO. 6	LF	810	4200	4080	7983	5394	4218	4200	2244											33129	77251					
715-1-13	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 4 TO NO. 2	LF	-	-	-	-	-	-	-	-												23459					
715-4-133	LIGHT POLE COMPLETE, F&I, W.S. 110, 50'	EA	2	8	6	9	9	7	7	5											53	127					
715-7-12	LOAD CENTER, F&I, PRIMARY VOLTAGE	EA	-	-	-	-	-	-	-	-												1					
715-11-125	LUMINAIRE, F&I, UNDER DECK, WALL MOUNT	EA	-	-	-	-	-	-	-	-												5					
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					

NOTICE: 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		

PROJECT 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 BARRIER WALLS SHALL HAVE HANDHOLES FACING THE TRAFFIC LANE. HANDHOLES SHALL BE POSITIONED ONE (1.0) FOOT ABOVE THE TOP OF THE BARRIER 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 PER STANDARD INDEX 21240. COST OF MAINTENANCE LIGHTING SYSTEM TO BE INCLUDED IN THE COST OF THE BRIDGE.

NOTICE: 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 NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-5
					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+28 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+52 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

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.
-  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
- 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	

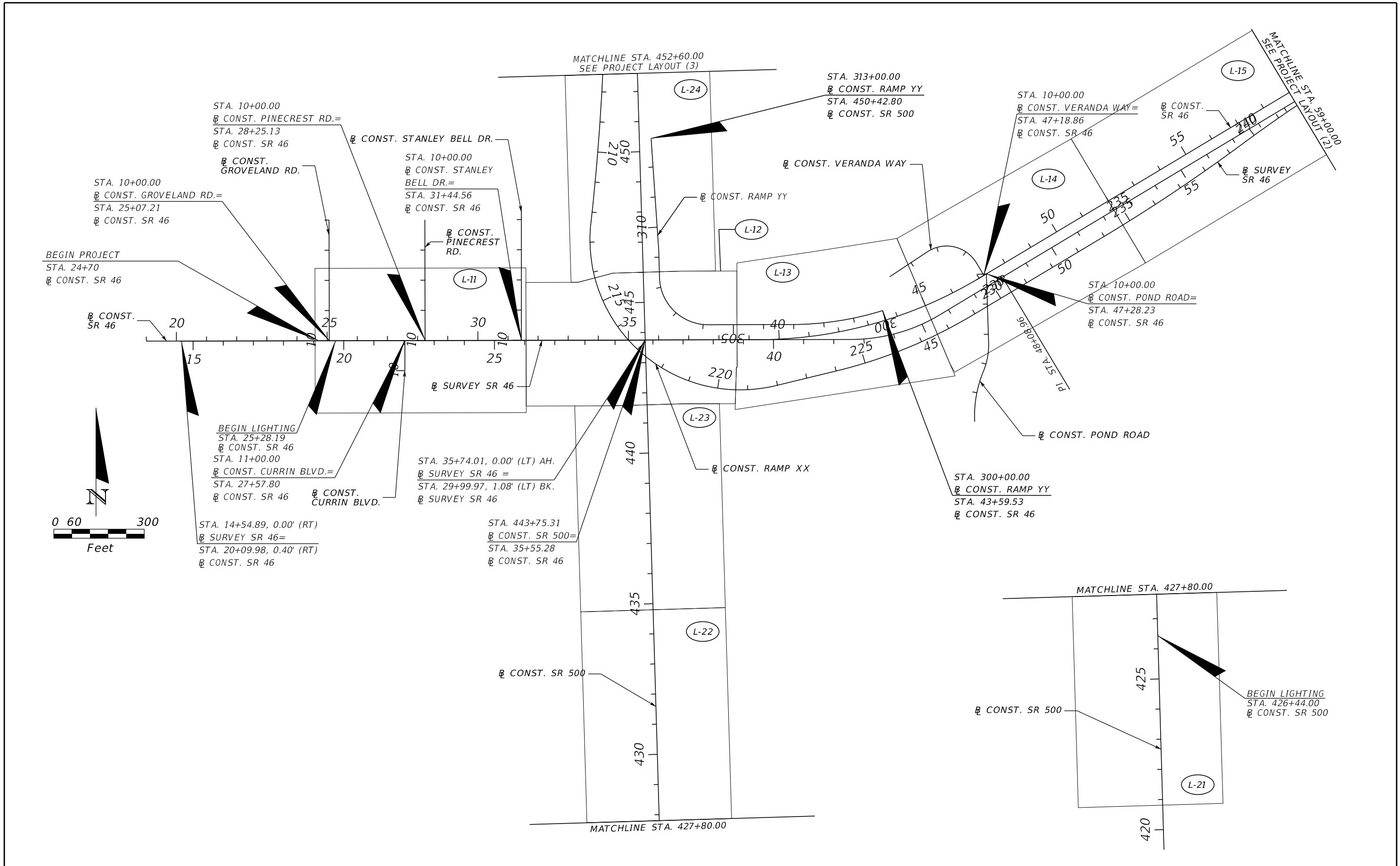
POLE DATA

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'	1.0' FROM BOS	715-4-133
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+44 LT, @ 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+52 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'	BARRIER WALL MOUNT	715-4-133
114	A-1	214+33 RT, @ CONST. RAMP XX	N/A	367	50'	BARRIER WALL MOUNT	715-4-133
115	A-1	216+04 RT, @ CONST. RAMP XX	N/A	367	50'	BRIDGE MOUNT	715-4-133
116	A-1	218+19 RT, @ CONST. RAMP XX	N/A	367	50'	BRIDGE MOUNT	715-4-133
117	A-1	219+90 RT, @ CONST. RAMP XX	N/A	367	50'	BARRIER WALL MOUNT	715-4-133
118	A-1	222+08 RT, @ CONST. RAMP XX	N/A	367	50'	BARRIER WALL MOUNT	715-4-133
119	A-1	224+49 RT, @ CONST. RAMP XX	N/A	367	50'	BARRIER WALL MOUNT	715-4-133
120	A-1	226+78 RT, @ CONST. RAMP XX	N/A	367	50'	BARRIER WALL MOUNT	715-4-133
121	A-1	228+69 RT, @ CONST. RAMP XX	N/A	367	50'	BARRIER WALL MOUNT	715-4-133
122	A-1	230+97 RT, @ CONST. RAMP XX	N/A	367	50'	BARRIER WALL MOUNT	715-4-133
123	A-1	233+33 RT, @ CONST. RAMP XX	N/A	367	50'	BARRIER WALL MOUNT	715-4-133
124	A-1	235+75 RT, @ CONST. RAMP XX	N/A	367	50'	BARRIER WALL MOUNT	715-4-133
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	16.5'	WALL MOUNT, CENTERED	715-11-125
U.D. 2	A-4	215+93 LT, @ CONST. RAMP XX	N/A	104	16.5'	PEIR MOUNT	715-11-125
U.D. 3	A-4	215+99 LT, @ CONST. RAMP XX	N/A	104	16.5'	PEIR MOUNT	715-11-125
U.D. 4	A-5	218+24 LT, @ CONST. RAMP XX	N/A	104	16.5'	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

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

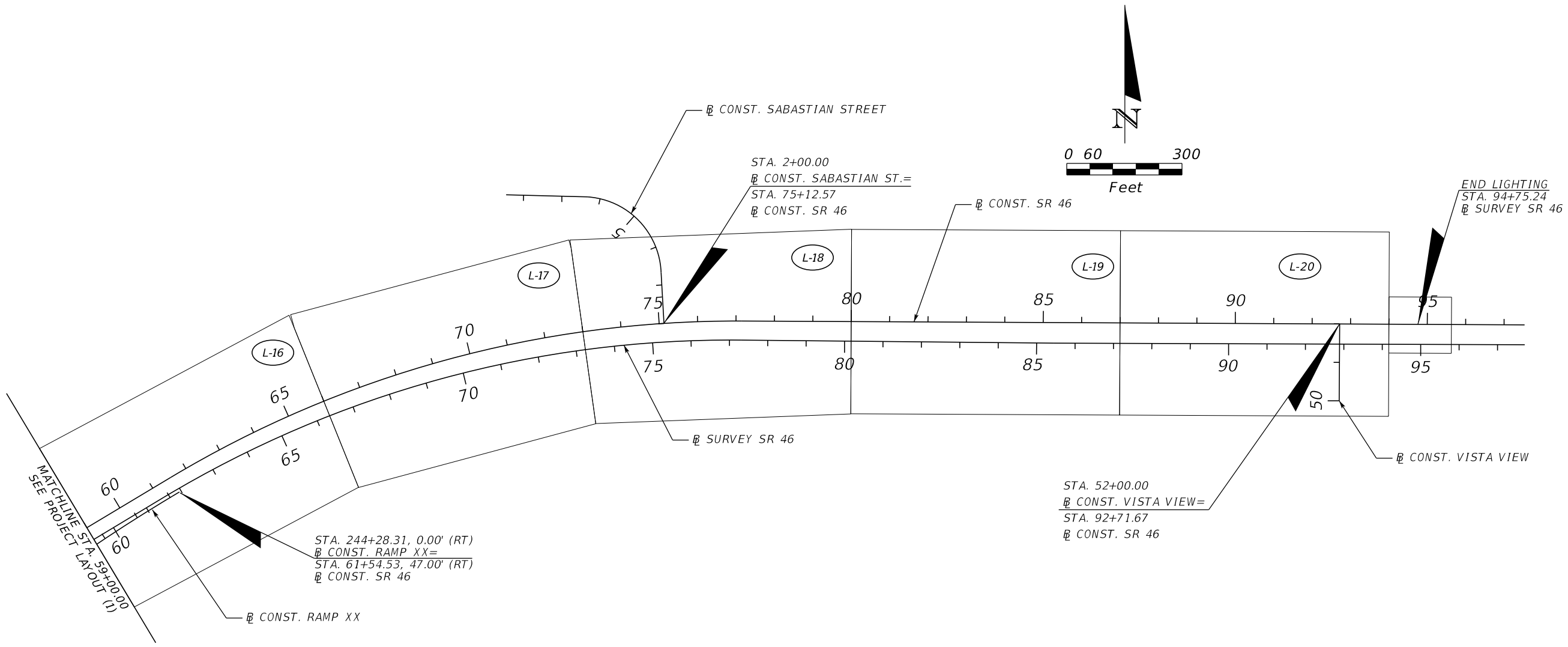
REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.  L-7
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT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



NOTICE: 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			<b>PROJECT LAYOUT (1)</b>  SHEET NO.  L-8
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 46	LAKE	238275-2-52-01	





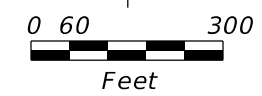
MATCHLINE STA. 59+00.00  
SEE PROJECT LAYOUT (1)

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

CONST. RAMP XX

CONST. SABASTIAN STREET

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



CONST. SR 46

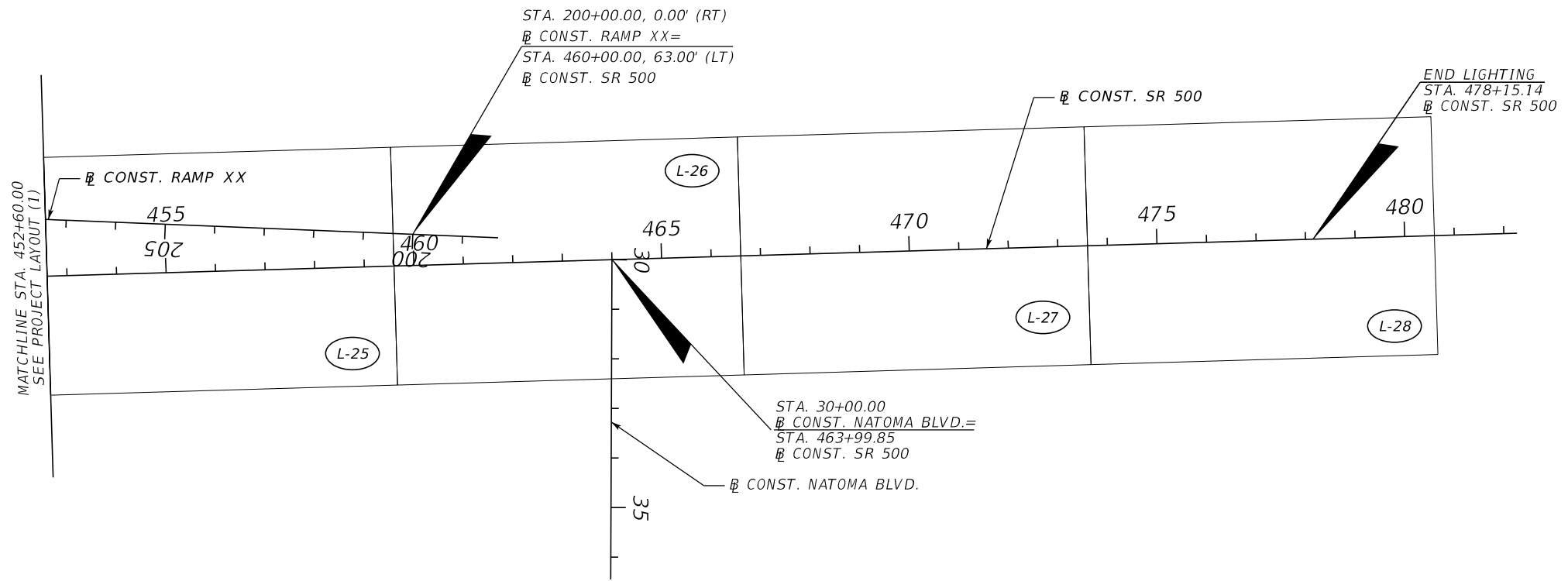
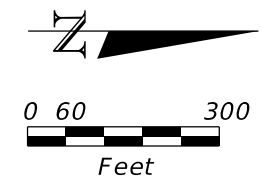
END LIGHTING  
STA. 94+75.24  
SURVEY SR 46

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

CONST. VISTA VIEW

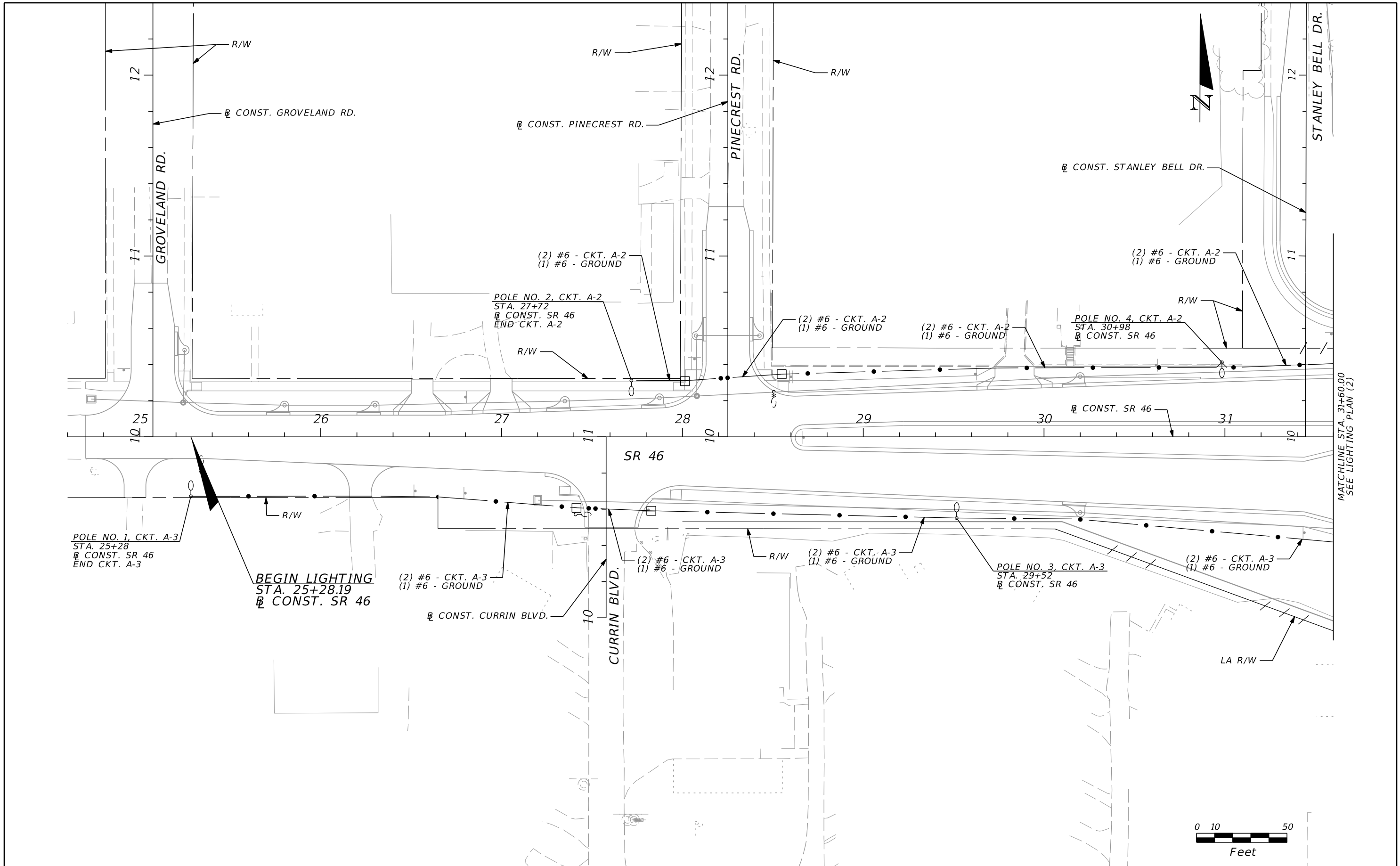
REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>PROJECT LAYOUT (2)</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY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

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



NOTICE: 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		



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

NOTICE: 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			<b>LIGHTING PLAN (1)</b>	SHEET NO.  L-11
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 46	LAKE	238275-2-52-01		

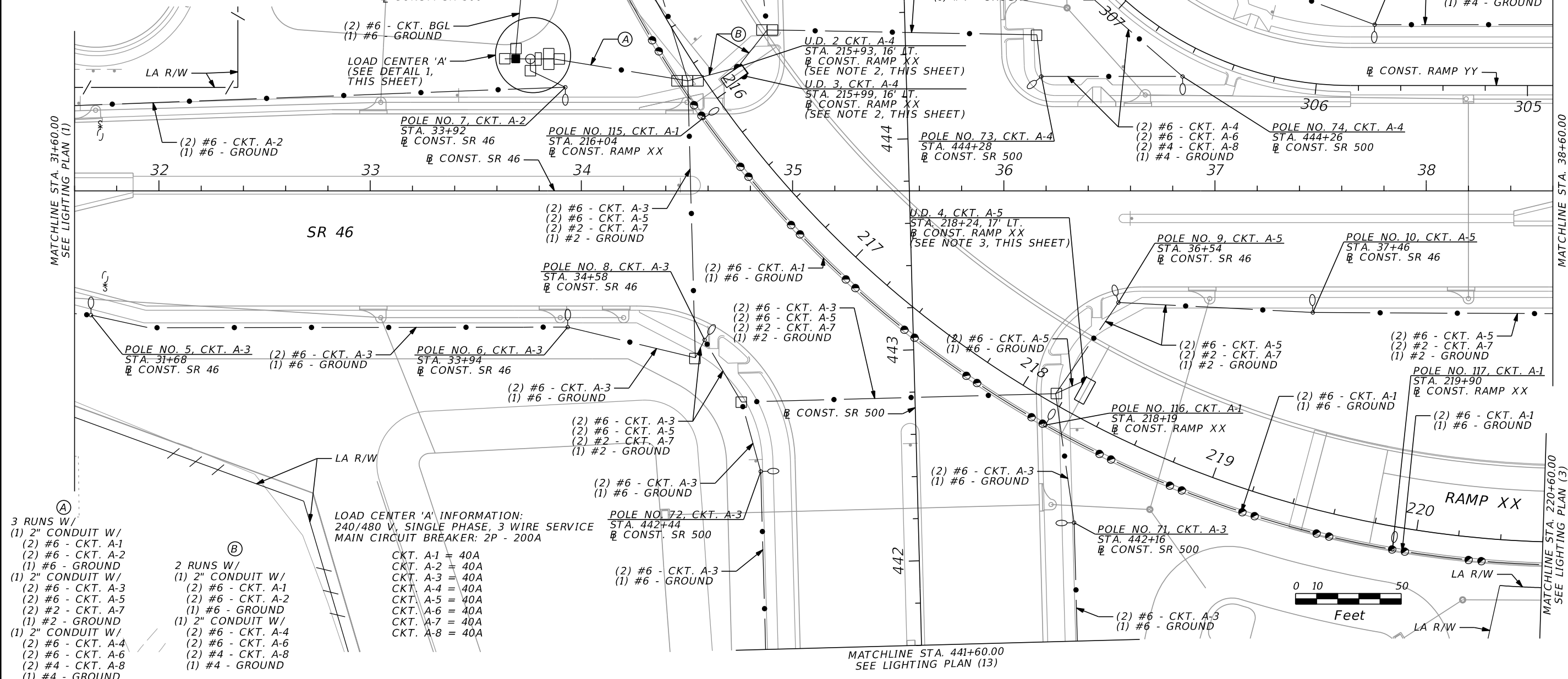
**NOTES:**

1. CITY OF MOUNT DORA WILL INSTALL CONDUIT & CONDUCTORS FROM SERVICE POLE INTO PULL BOX AND MAKE FINAL CONNECTIONS. PULL BOX TO BE INSTALLED BY LIGHTING CONTRACTOR.
2. U.D. 1, U.D. 2 & U.D. 3 RISER SHALL BE: (2) #6 - CKT. A-4 & (1) #6 - GROUND
3. U.D. 4 RISER SHALL BE: (2) #6 - CKT. A-5 & (1) #6 - GROUND

MATCHLINE STA. 446+00.00  
SEE LIGHTING PLAN (14)



**DETAIL 1**  
N.T.S.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

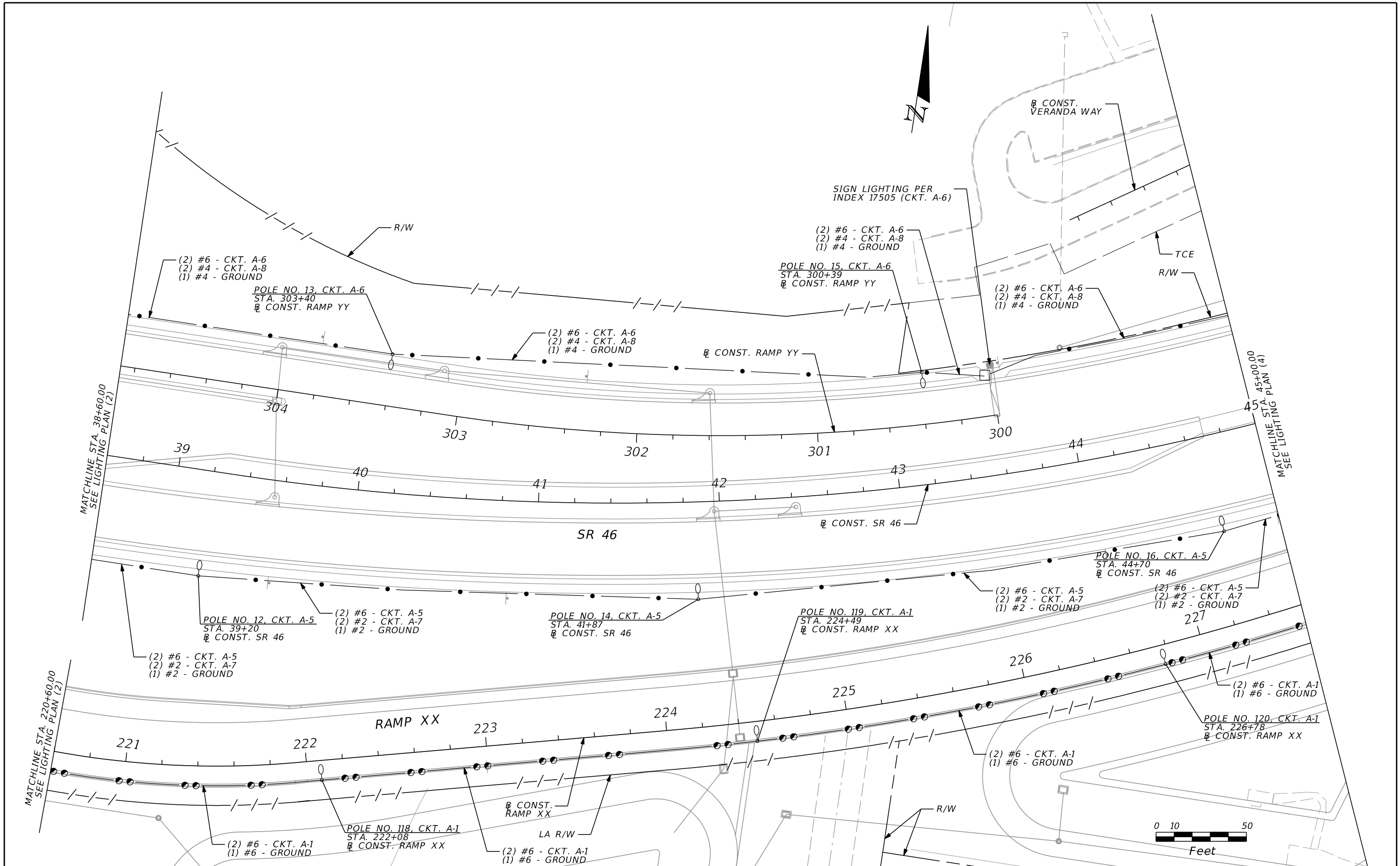
SCOTT G. HORLANDER, P.E.  
P.E. NO. 46624  
PROTEAN DESIGN GROUP  
100 EAST PINE STREET, SUITE 600  
ORLANDO FLORIDA 32801  
CERTIFICATE OF AUTHORIZATION NUMBER 7865

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 46	LAKE	238275-2-52-01

**LIGHTING PLAN (2)**

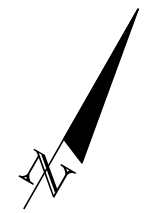
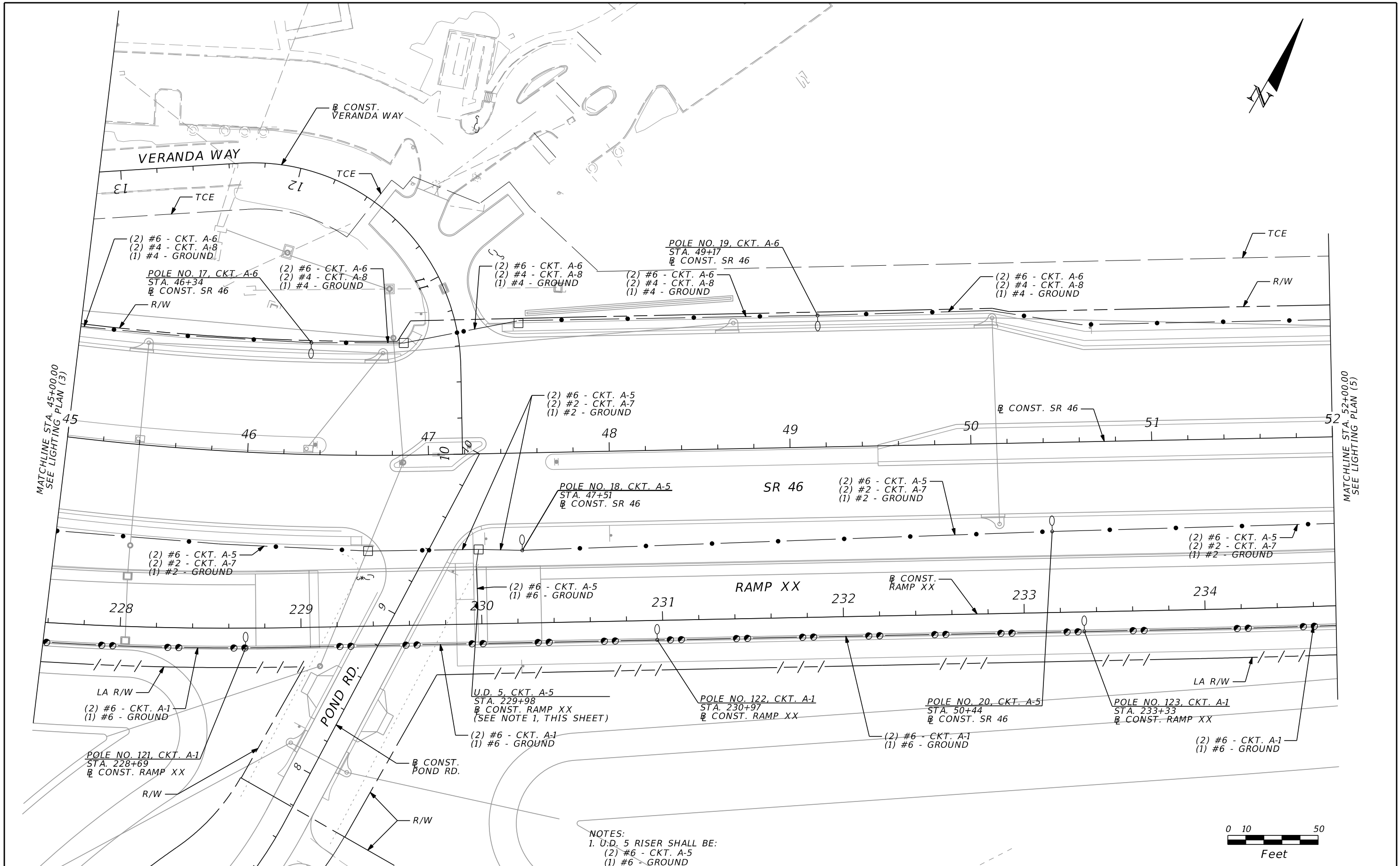
SHEET NO.  
**L-12**

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



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

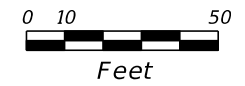
REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>LIGHTING PLAN (3)</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY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



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

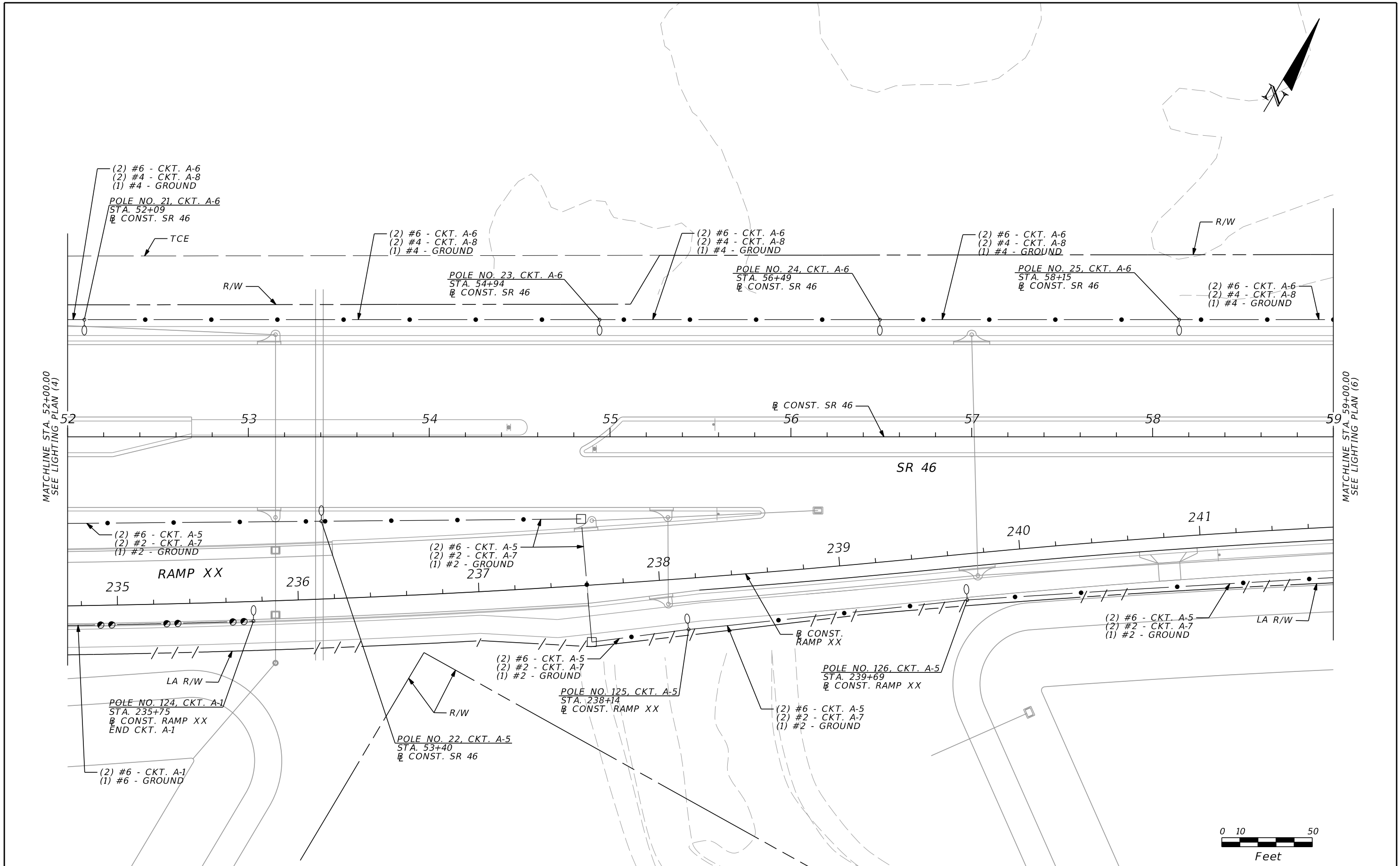
MATCHLINE STA. 52+00.00  
SEE LIGHTING PLAN (5)

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		

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

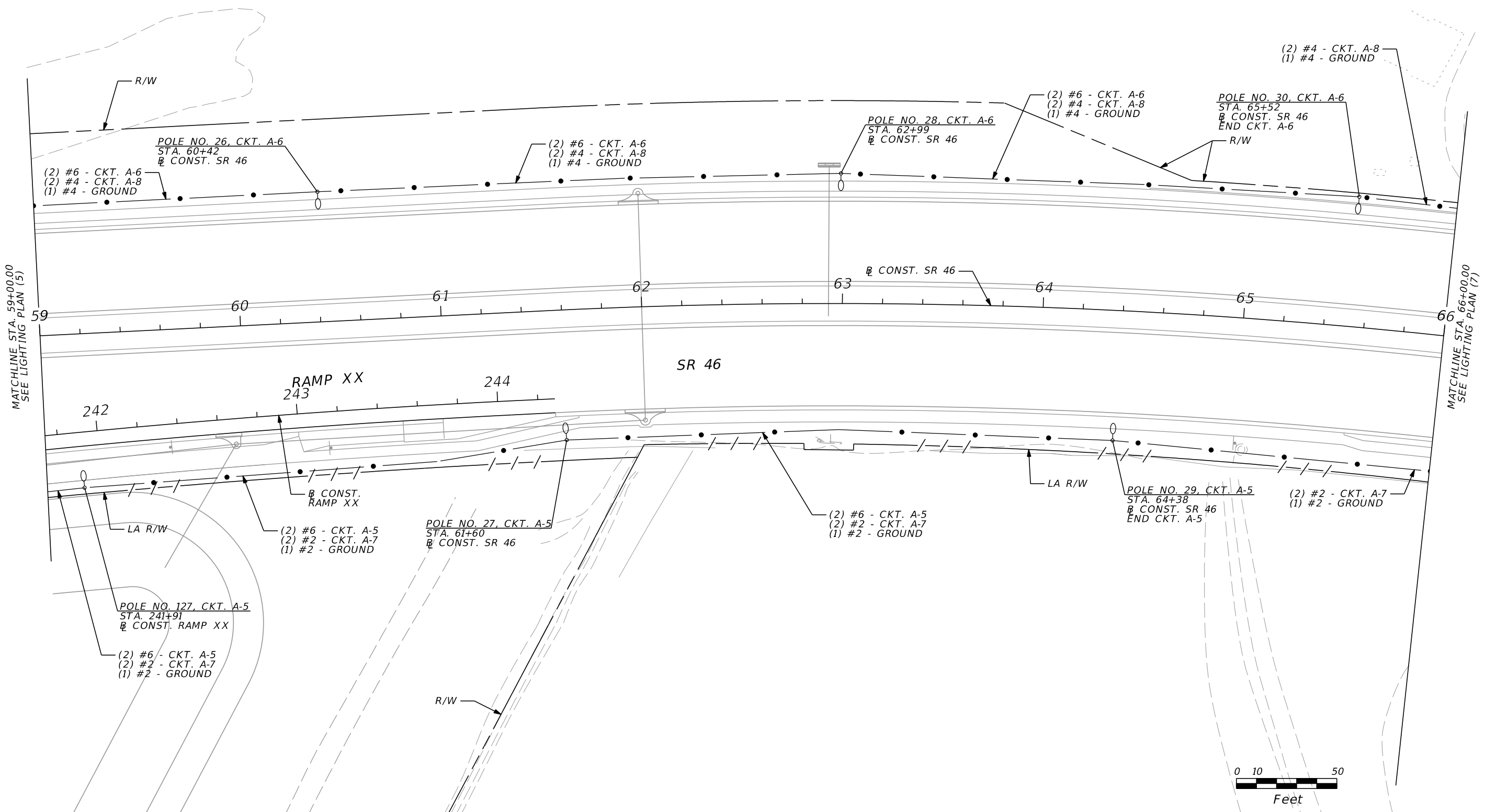


MATCHLINE STA. 52+00.00  
SEE LIGHTING PLAN (4)

MATCHLINE STA. 59+00.00  
SEE LIGHTING PLAN (6)

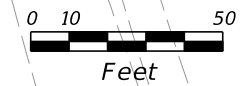
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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			<b>LIGHTING PLAN (5)</b>	SHEET NO.  L-15
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 46	LAKE	238275-2-52-01		



MATCHLINE STA. 59+00.00  
SEE LIGHTING PLAN (5)

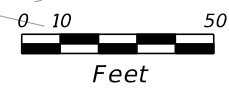
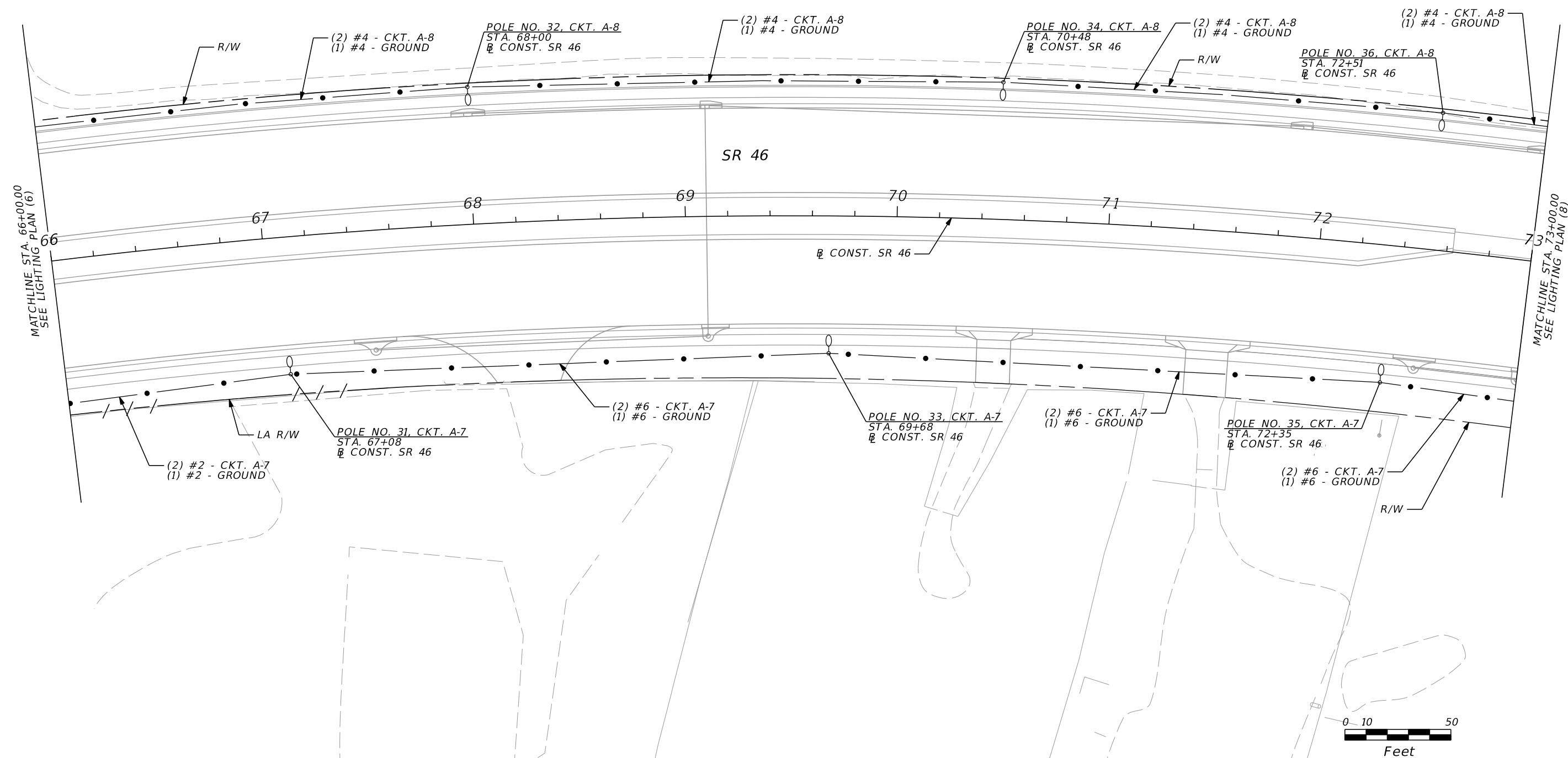
MATCHLINE STA. 66+00.00  
SEE LIGHTING PLAN (7)



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			<b>LIGHTING PLAN (6)</b>	SHEET NO.  L-16
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 46	LAKE	238275-2-52-01		

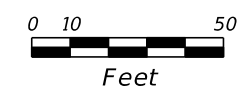
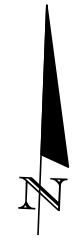
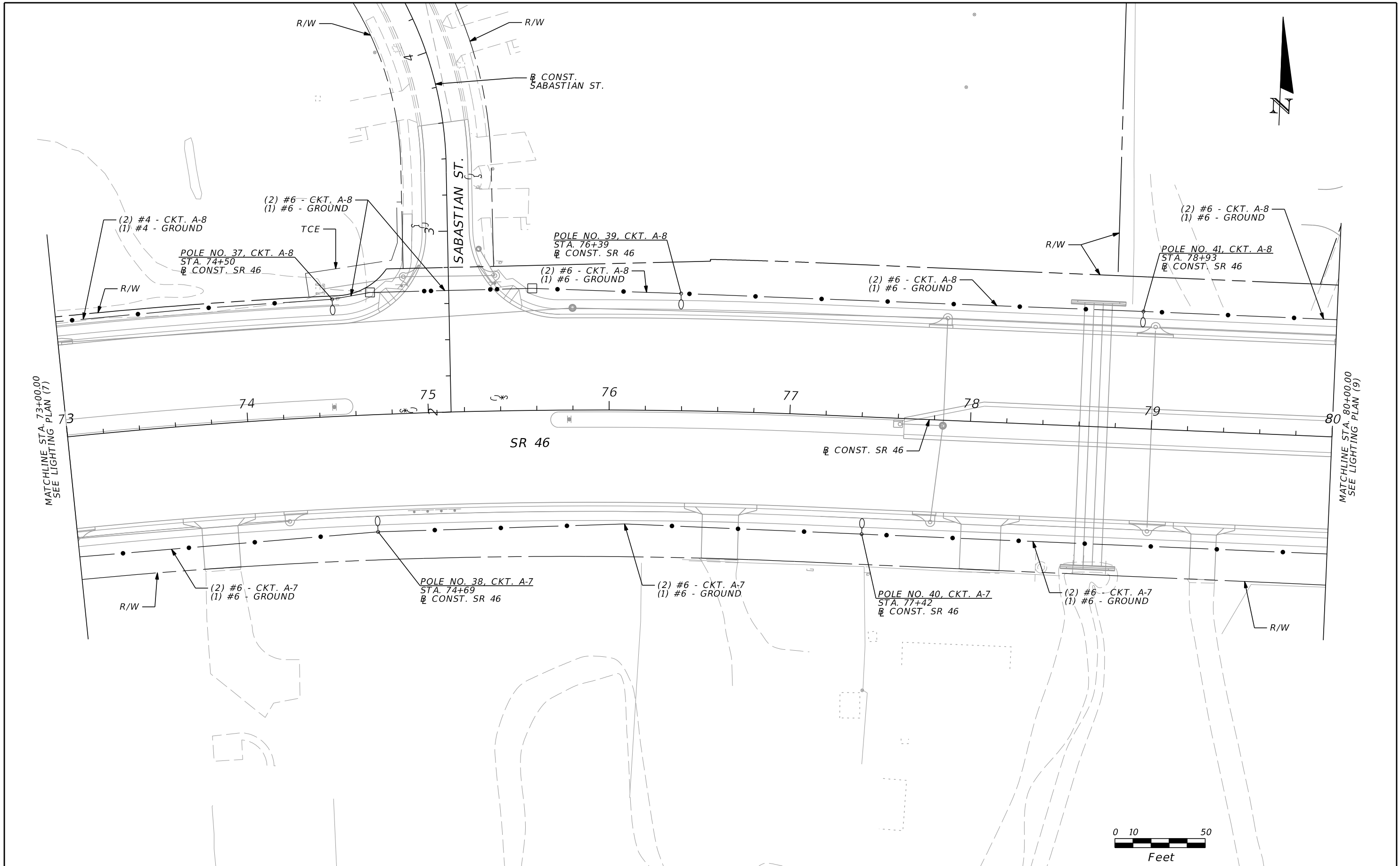
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.





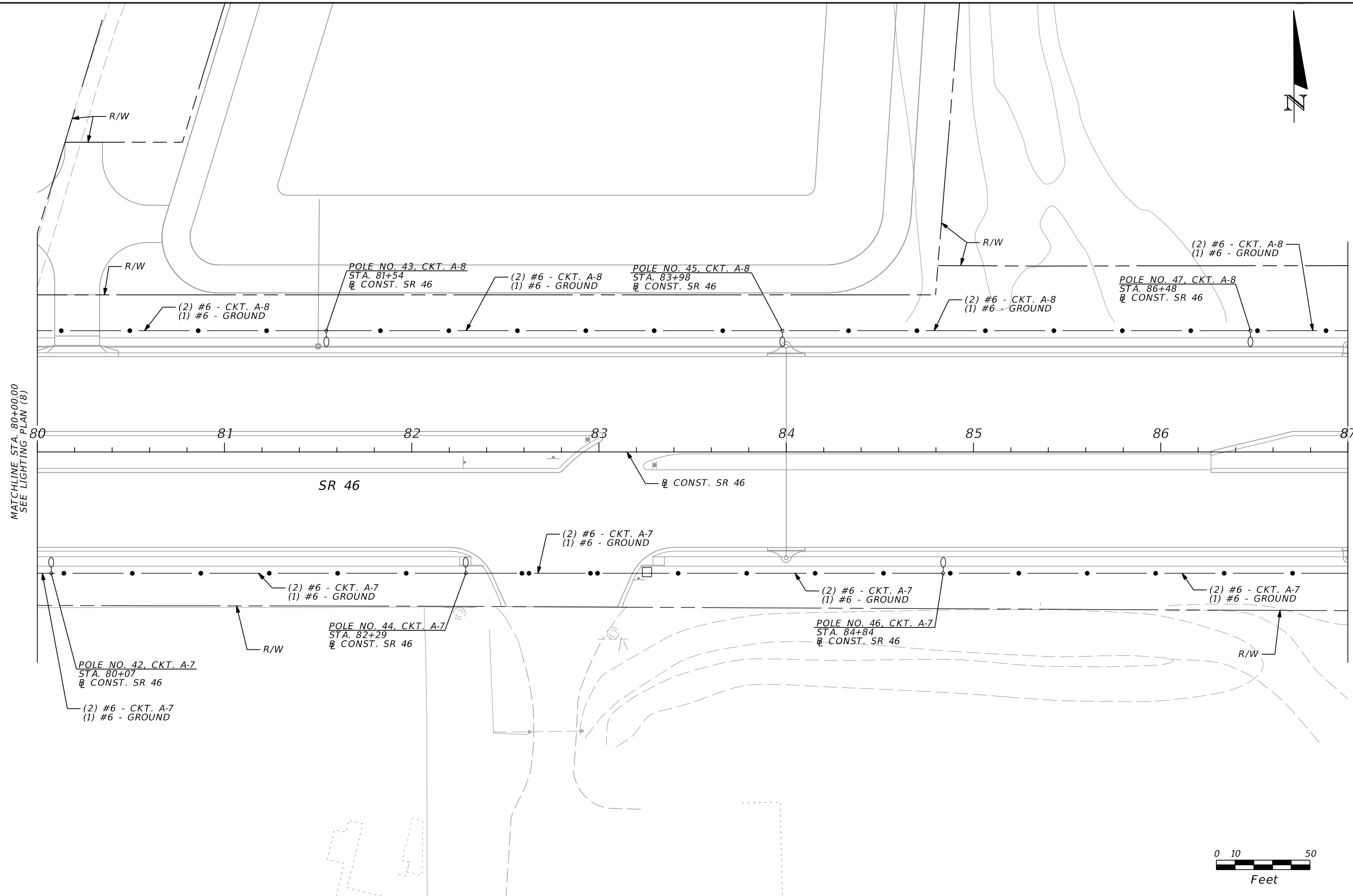
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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			<b>LIGHTING PLAN (7)</b>	SHEET NO.  L-17
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 46	LAKE	238275-2-52-01		



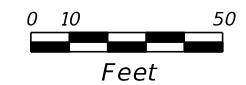
REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.  L-18
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT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

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



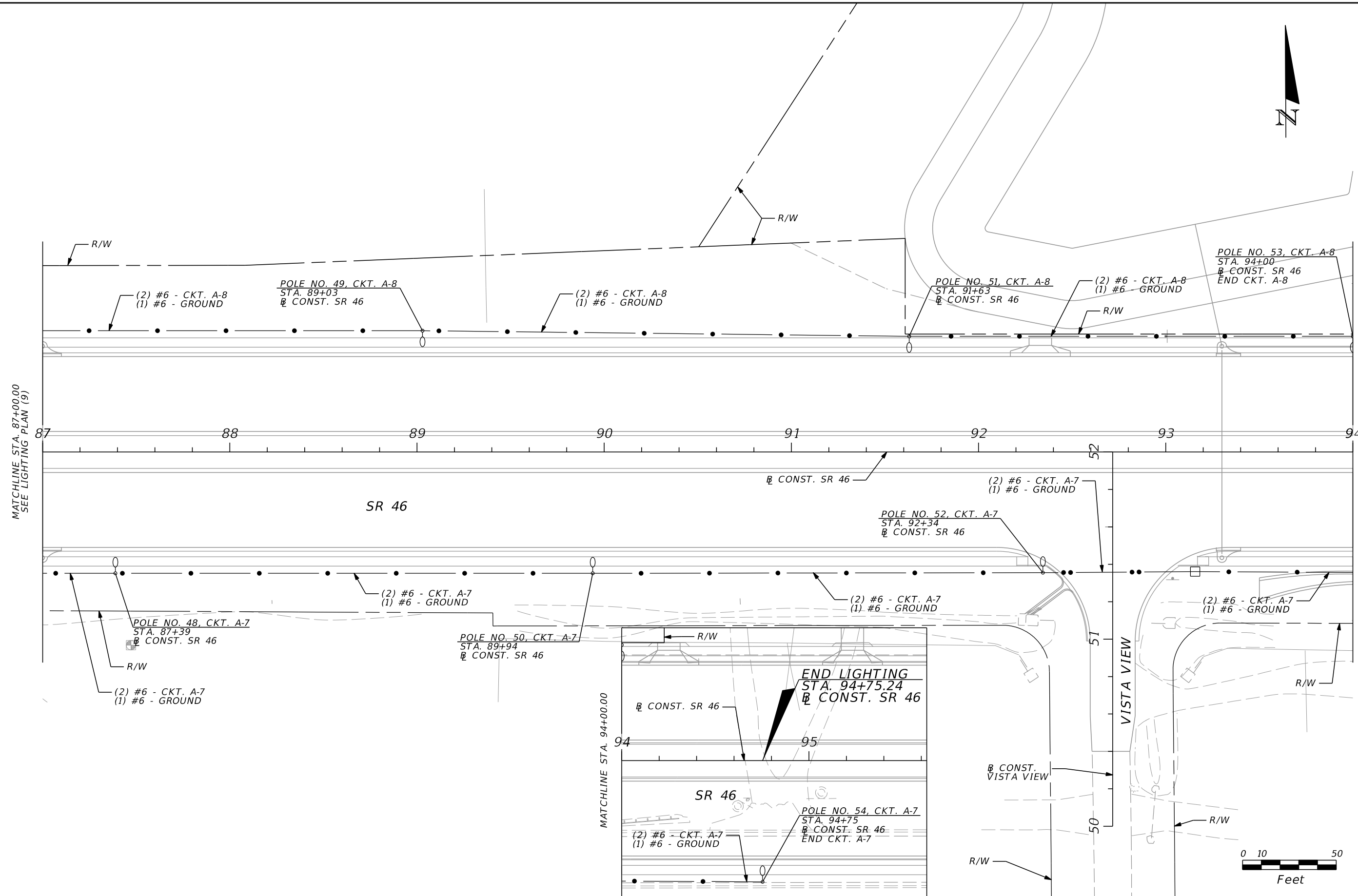
MATCHLINE STA. 80+00.00  
SEE LIGHTING PLAN (8)

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



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 (9)	SHEET NO.  L-19
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 46	LAKE	238275-2-52-01		

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



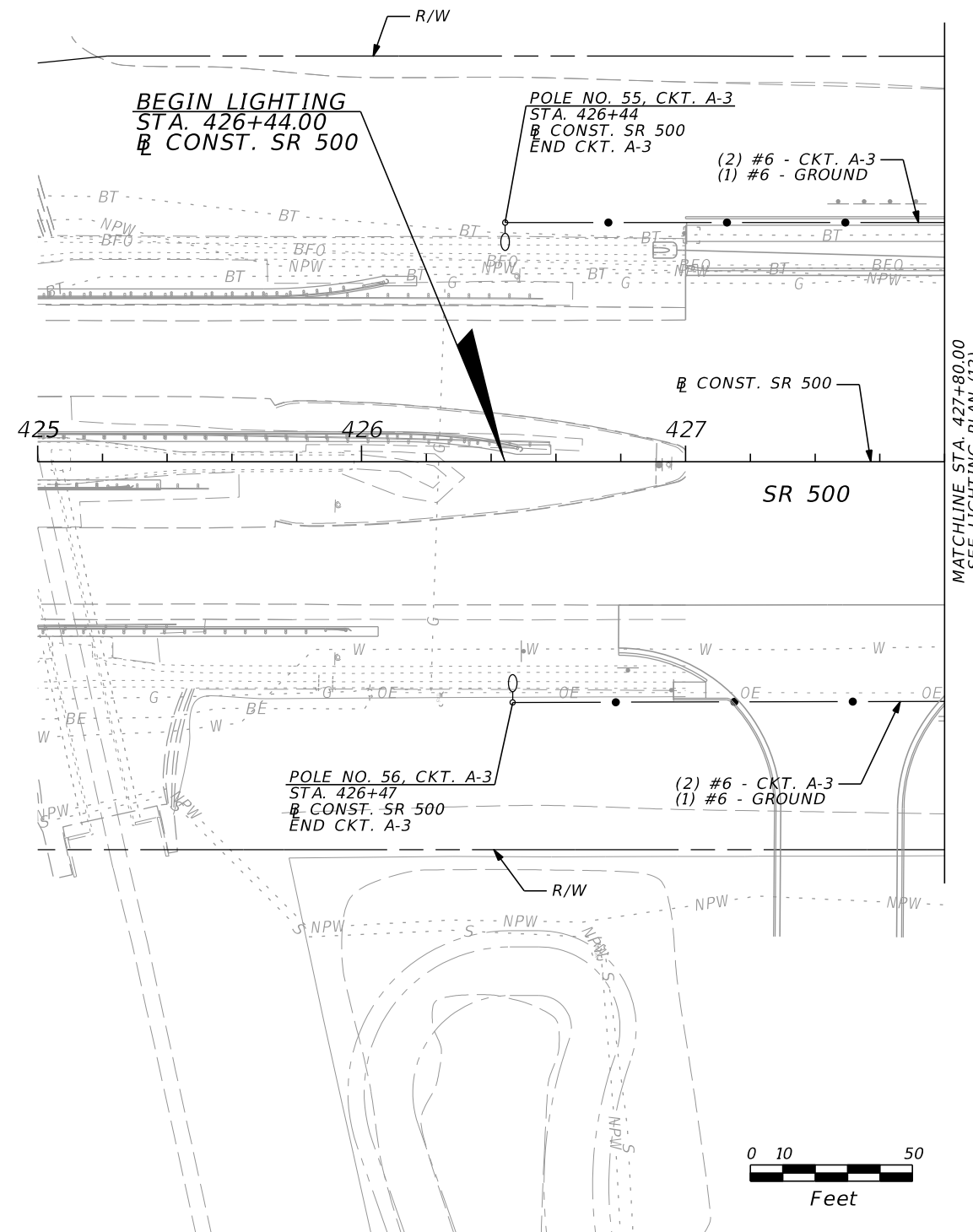
MATCHLINE STA. 87+00.00  
SEE LIGHTING PLAN (9)

MATCHLINE STA. 94+00.00

MATCHLINE STA. 94+00.00

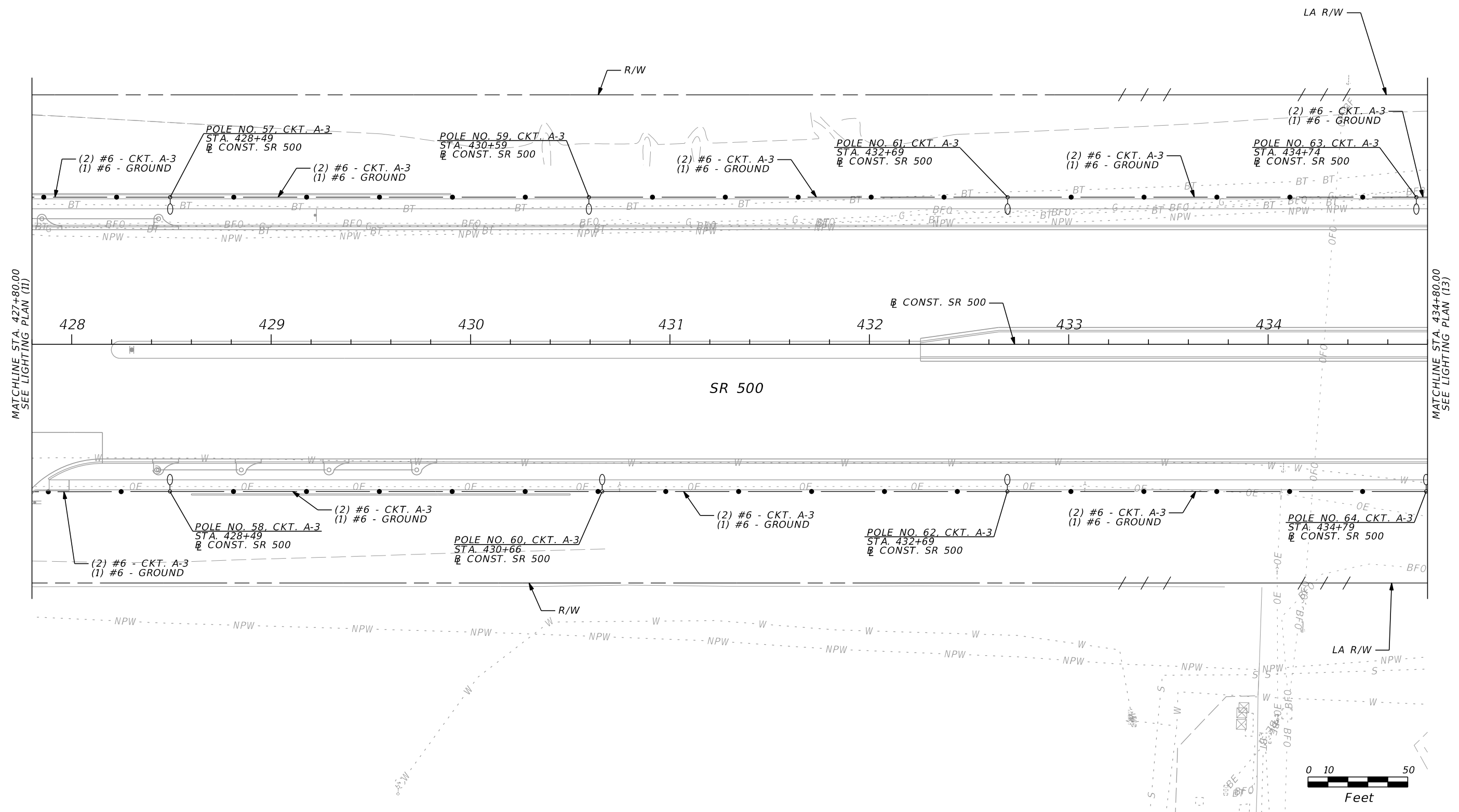
REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>LIGHTING PLAN (10)</b>	SHEET NO.  L-20
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.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

NOTICE: 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			<b>LIGHTING PLAN (11)</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-21
					SR 46	LAKE	238275-2-52-01		

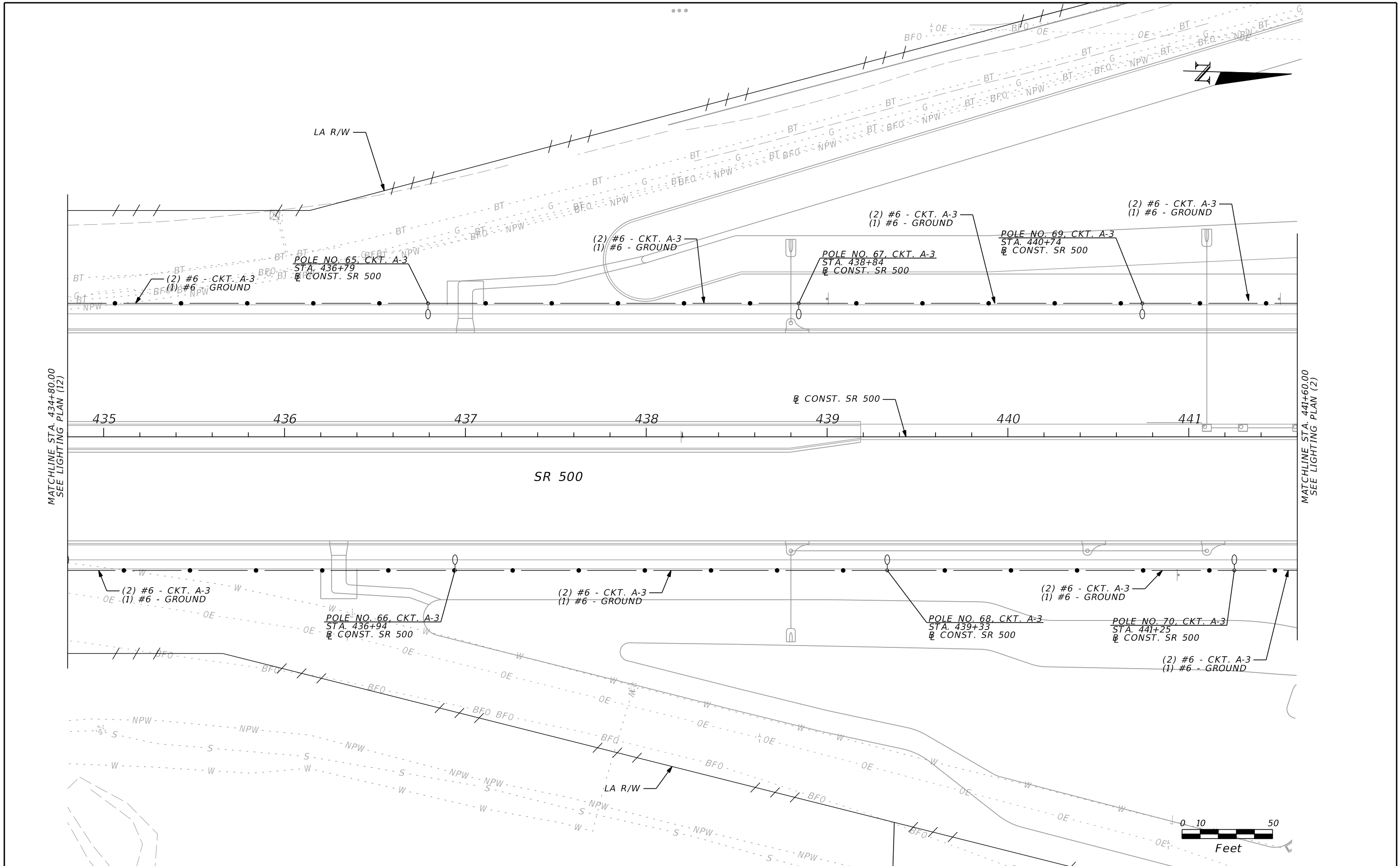


MATCHLINE STA. 427+80.00  
SEE LIGHTING PLAN (11)

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

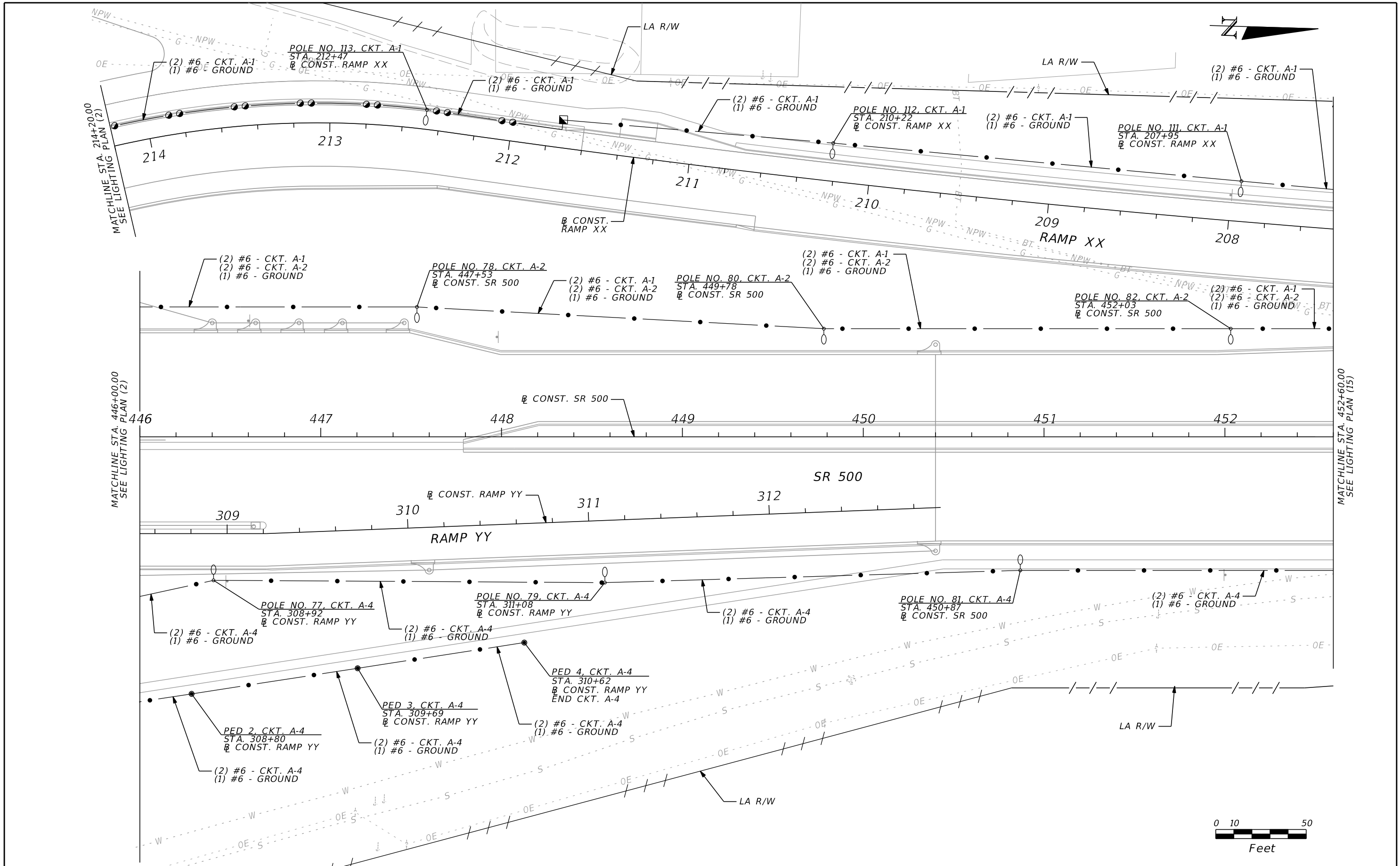
REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (12)	SHEET NO.  L-22
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY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

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



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

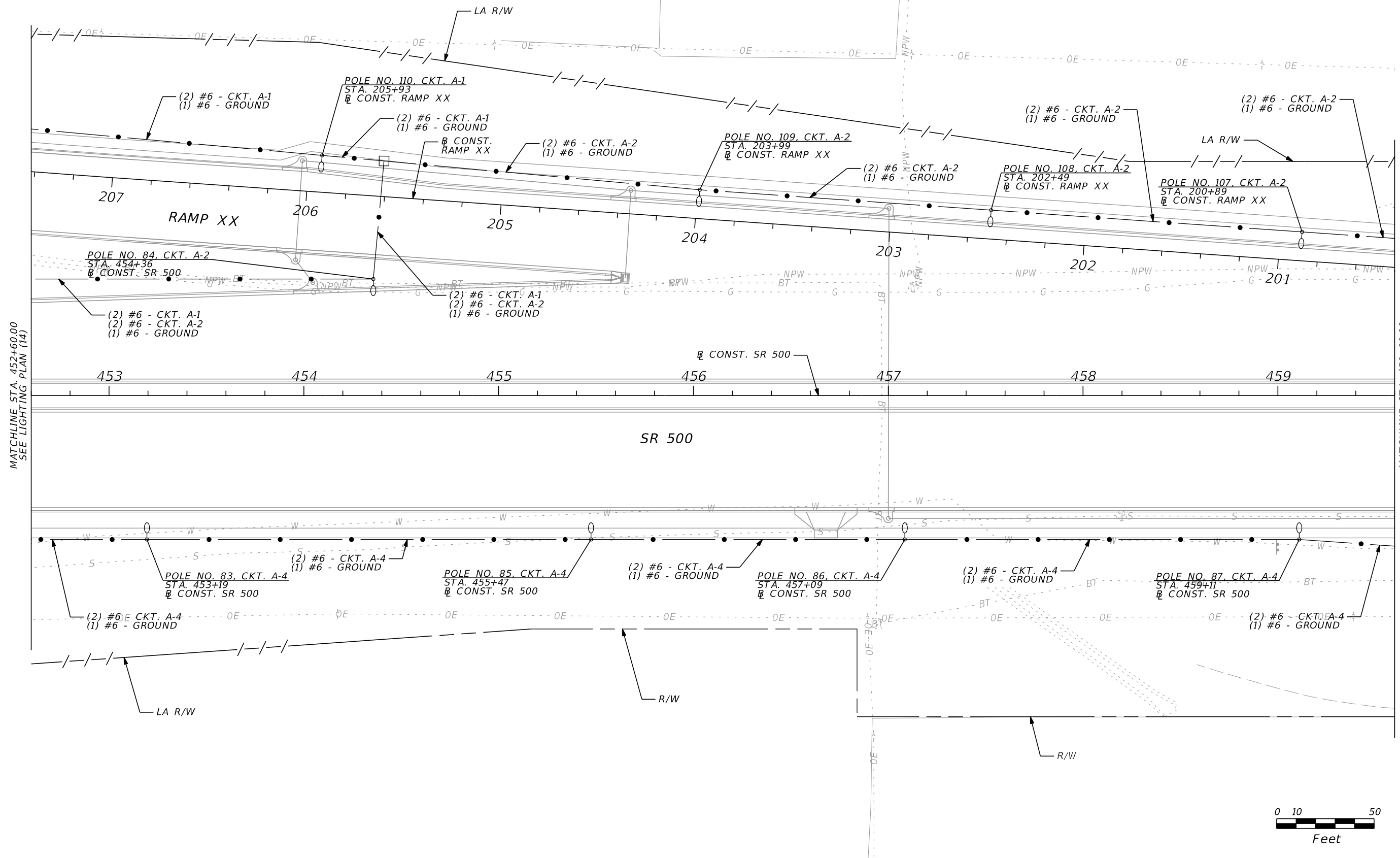
REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>LIGHTING PLAN (13)</b>	SHEET NO.  L-23
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.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



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

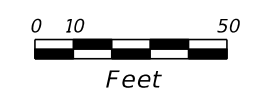
REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.  L-24
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT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





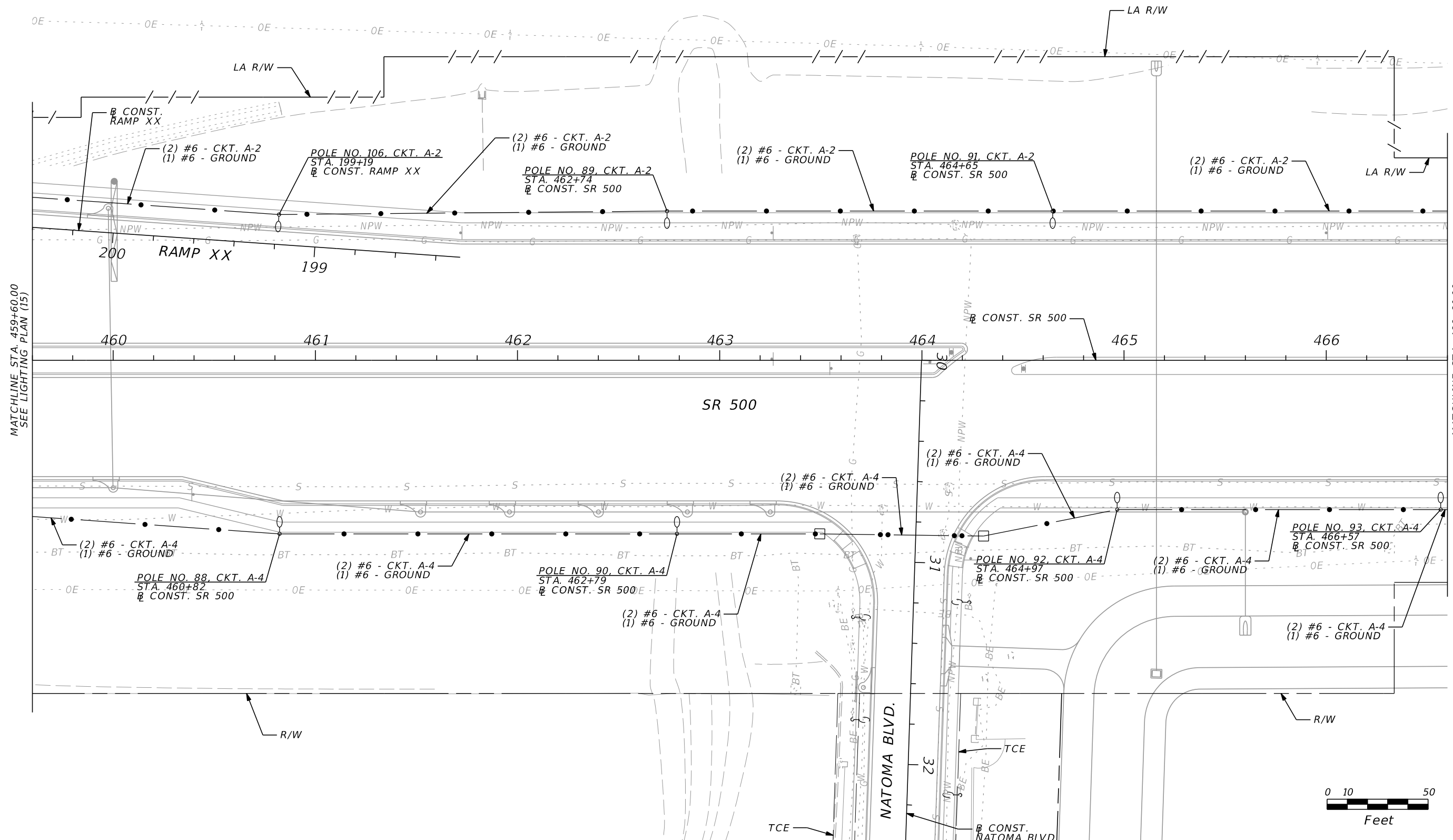
MATCHLINE STA. 452+60.00  
SEE LIGHTING PLAN (14)

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



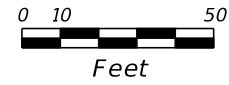
REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.  L-25
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT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

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



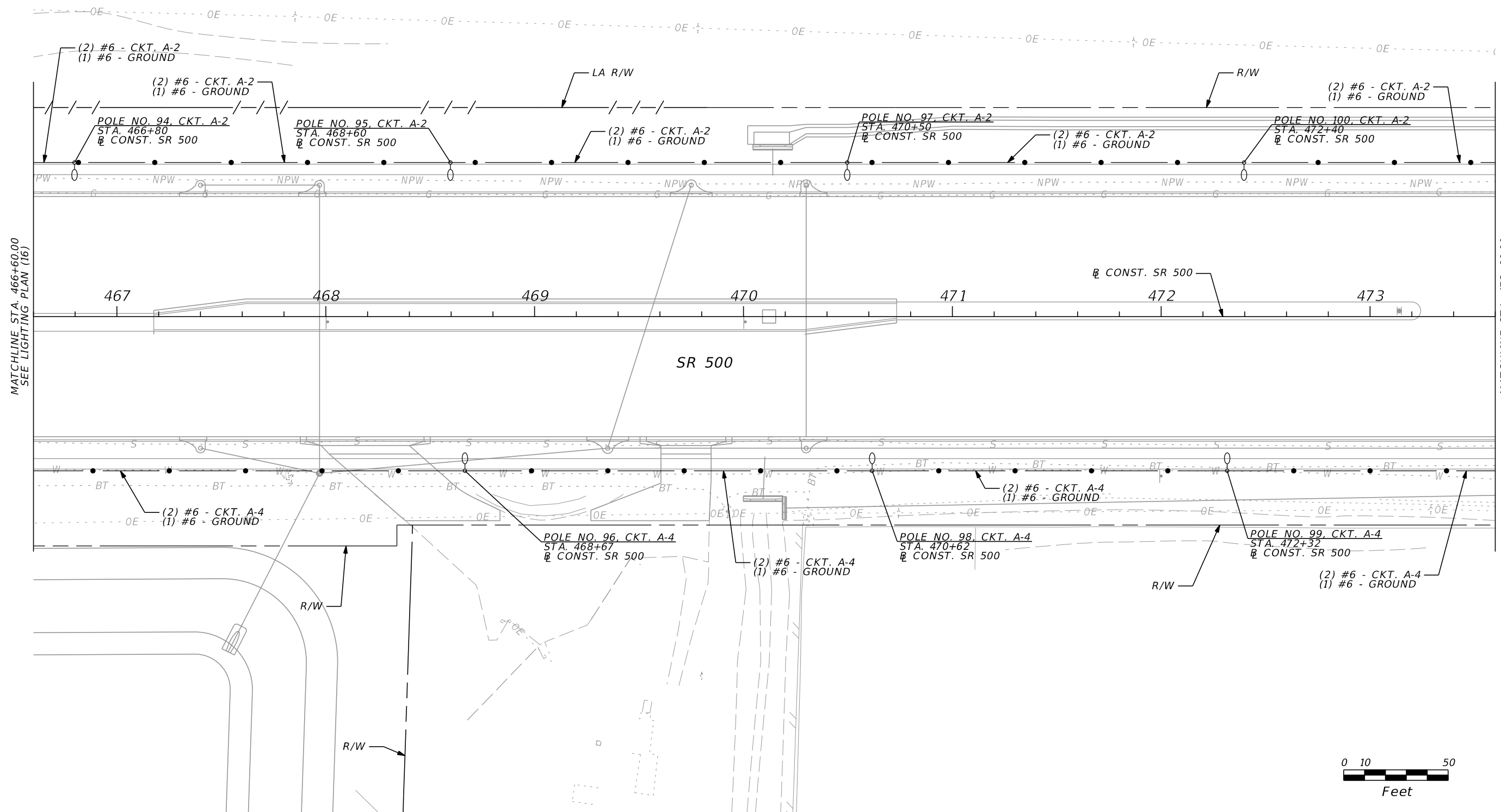
MATCHLINE STA. 459+60.00  
SEE LIGHTING PLAN (15)

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			<b>LIGHTING PLAN (16)</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-26
					SR 46	LAKE	238275-2-52-01		

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

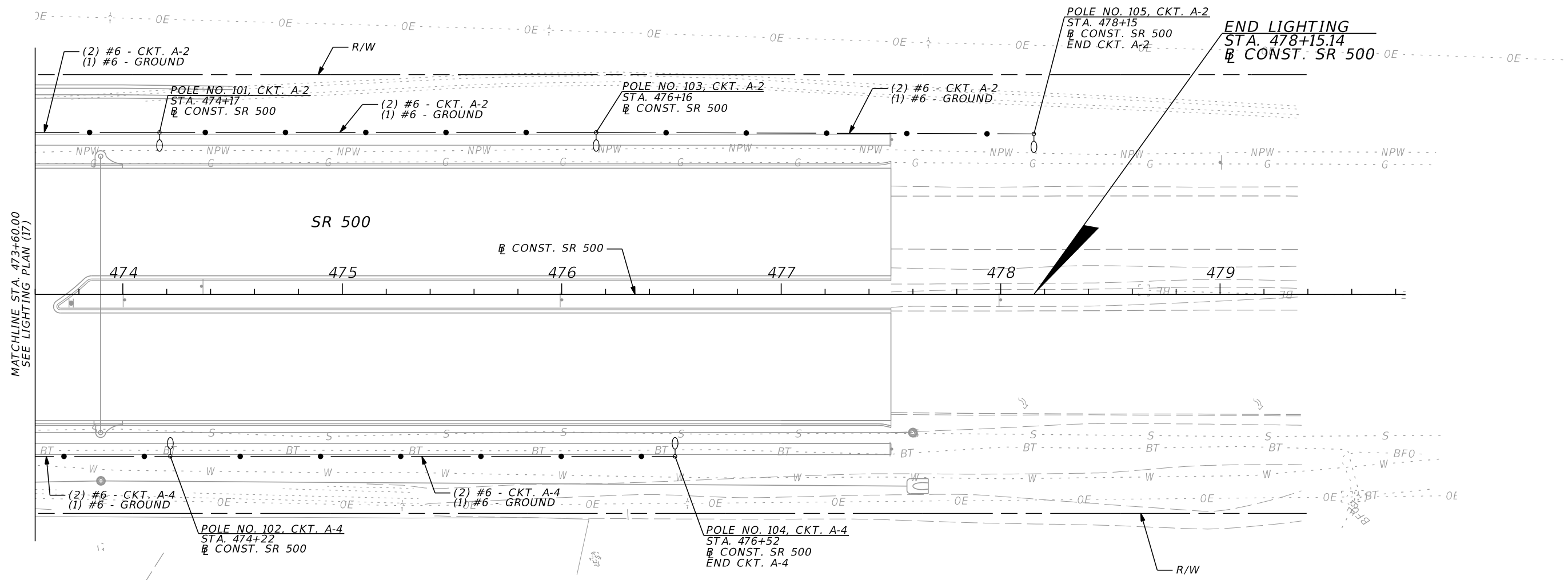


MATCHLINE STA. 466+60.00  
SEE LIGHTING PLAN (16)

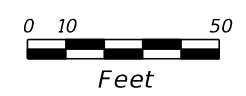
MATCHLINE STA. 473+60.00  
SEE LIGHTING PLAN (18)

NOTICE: 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			<b>LIGHTING PLAN (17)</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-27
					SR 46	LAKE	238275-2-52-01		

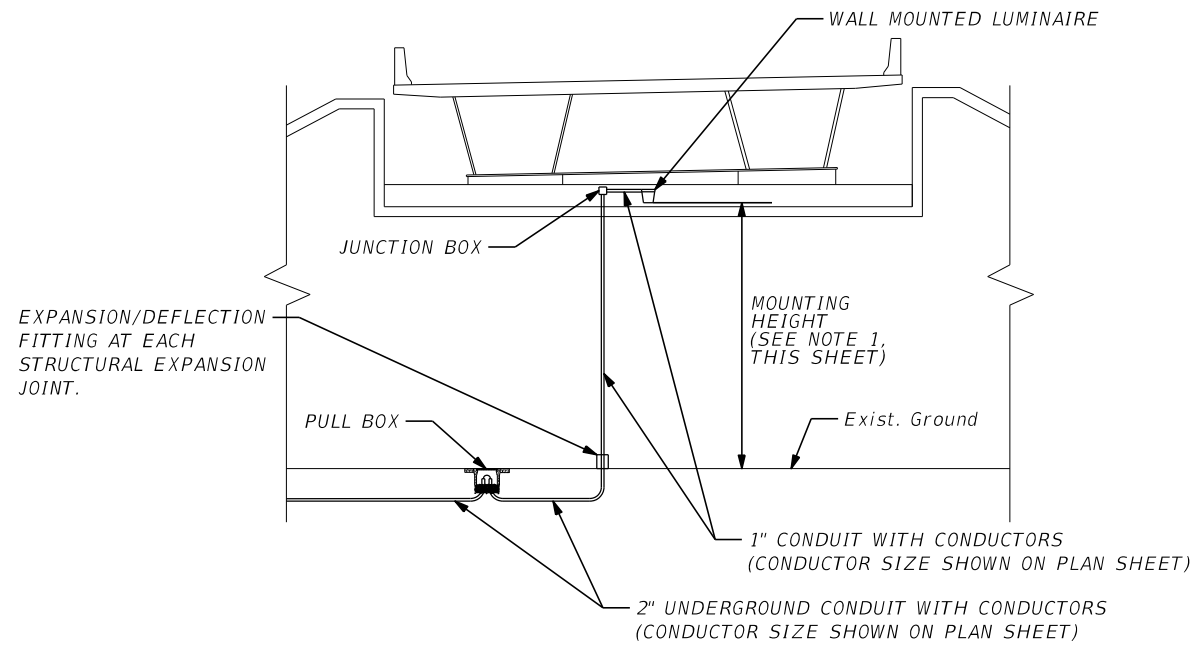


MATCHLINE STA. 473+60.00  
SEE LIGHTING PLAN (17)



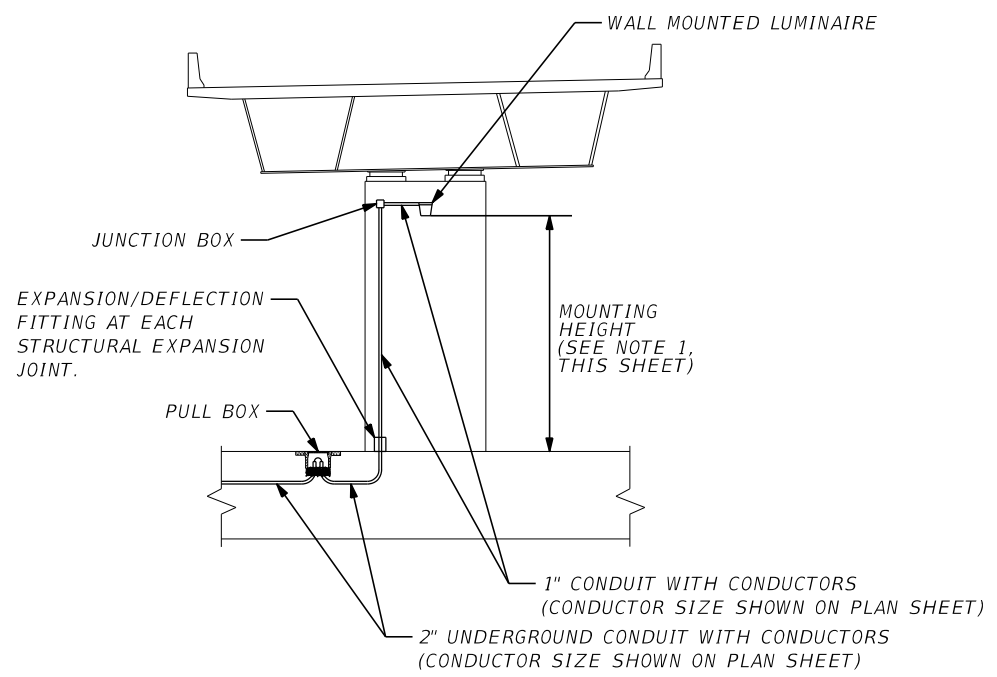
REVISIONS				SCOTT G. HORLANDER, P.E. P.E. NO. 46624 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO FLORIDA 32801 CERTIFICATE OF AUTHORIZATION NUMBER 7865	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>LIGHTING PLAN (18)</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY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

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

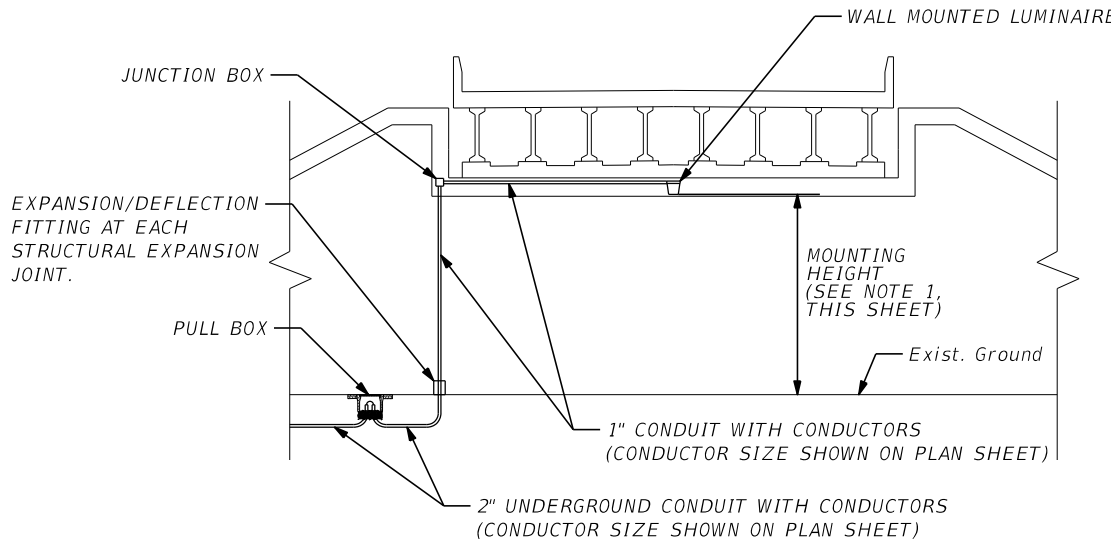


**WALL MOUNTED UNDERDECK FIXTURE**  
N.T.S.

**DETAIL 1 - RAMP XX (BRIDGE NO. 110095)**

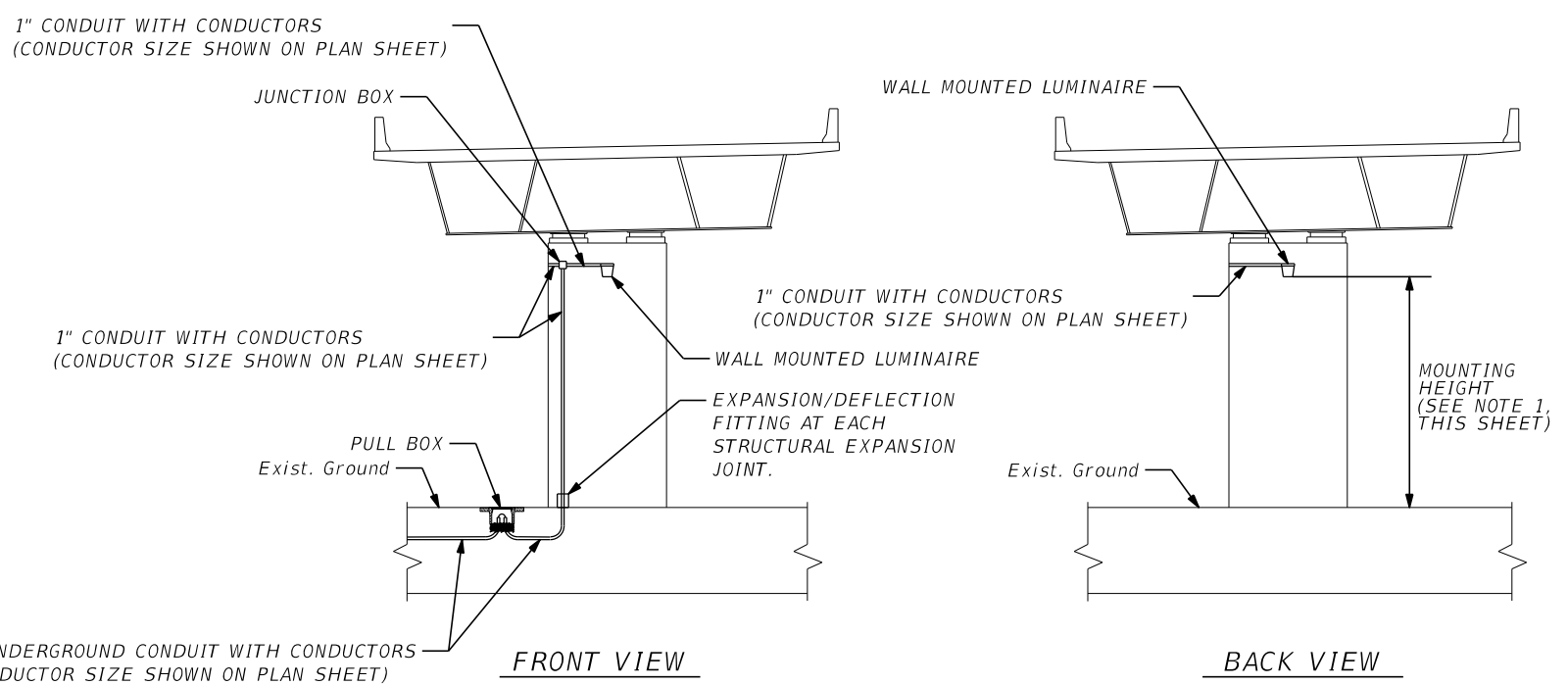


**PIER MOUNTED UNDERDECK FIXTURE**  
N.T.S.



**WALL MOUNTED UNDERDECK FIXTURE**  
N.T.S.

**DETAIL 3 - RAMP XX (BRIDGE NO. 110094)**



**FRONT VIEW**

**BACK VIEW**

**PIER MOUNTED UNDERDECK FIXTURE**  
N.T.S.

**DETAIL 2 - RAMP XX (BRIDGE NO. 110095)**

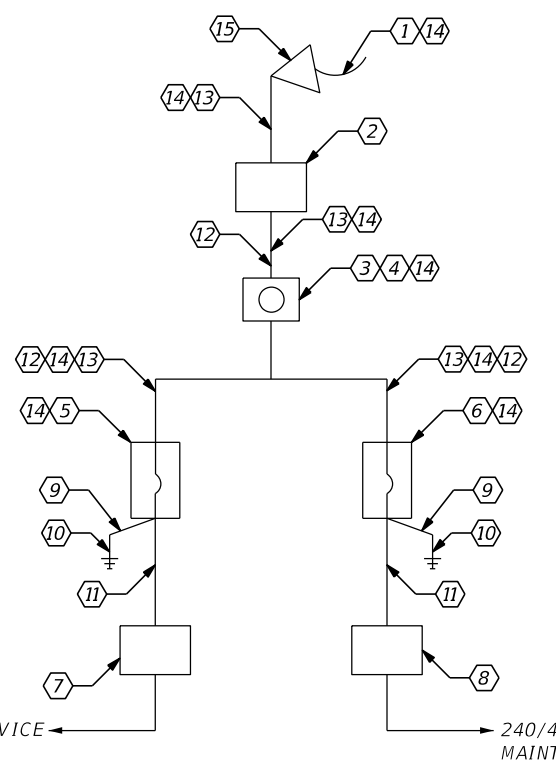
- NOTES:
1. REFER TO POLE DATA - UNDERDECK LIGHTING TABLE FOR MOUNTING HEIGHTS.
  2. SEE SPECIFIC UNDERDECK LIGHTING DETAIL PLAN VIEW FOR CONDUCTOR SIZES AND ADDITIONAL CONDUIT ROUTING DETAILS. ALL SURFACE MOUNTED CONDUIT SHALL BE MOUNTED TO PIERS. THERE SHALL BE NO DRILLING THROUGH BEAMS.
  3. FOR SURFACE 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

NOTICE: 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							
							4752	6	40	2	6	*	A-6
A-7	*	2	40	2	7	4512							"
"						4512							
							4512	8	40	2	4	*	A-8
"						4512							"

<b>NOTES:</b> * 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	48,624 VA
	TOTAL DEMAND	101.3 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.
  - ② ELECTRICAL SERVICE POINT. PULL BOX BY CONTRACTOR.
  - ③ LIGHTING METER SOCKET.
  - ④ BOX GIRDER MAINTENANCE LIGHTING METER SOCKET.
  - ⑤ LIGHTING SERVICE MAIN DISCONNECT.
  - ⑥ BOX GIRDER MAINTENANCE LIGHTING SERVICE MAIN DISCONNECT.
  - ⑦ LIGHTING PULL BOX.
  - ⑧ BOX GIRDER MAINTENANCE LIGHTING PULL BOX.
  - ⑨ #6 AWG INSULATED COPPER GROUND WIRE IN 1/2" RGS CONDUIT.
  - ⑩ GROUNDING ELECTRODE.
  - ⑪ UNDERGROUND FEEDER CONDUIT.
  - ⑫ CONCRETE POLE.
  - ⑬ SERVICE FEEDER IN RGS CONDUIT.
  - ⑭ MOUNT ON RISER POLE.
  - ⑮ WEATHERHEAD.

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			<b>SERVICE POINT          DETAIL</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 46	LAKE	238275-2-52-01		L-30

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