

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

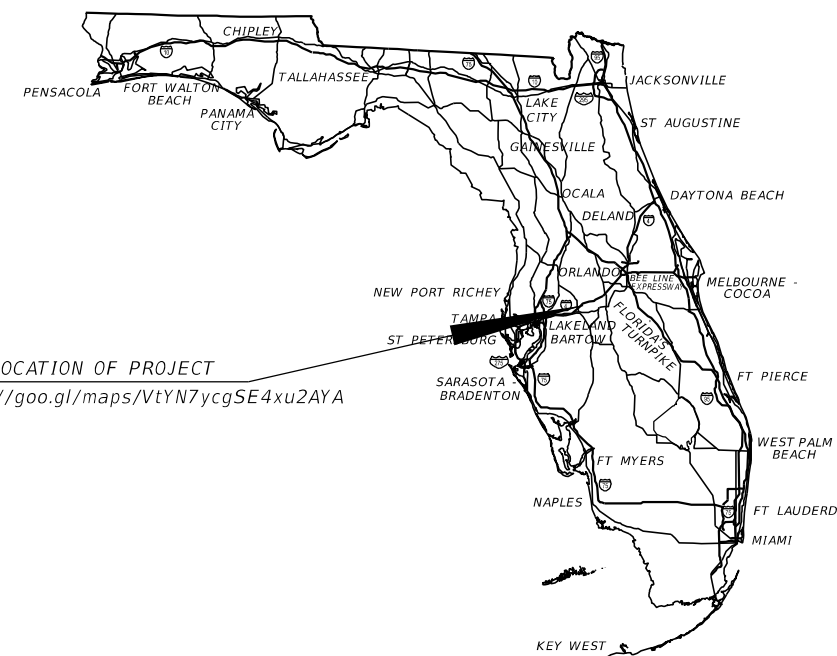
FINANCIAL PROJECT ID 430185-3-52-01
(FEDERAL FUNDS)

POLK COUNTY (16320)

STATE ROAD NO. 400

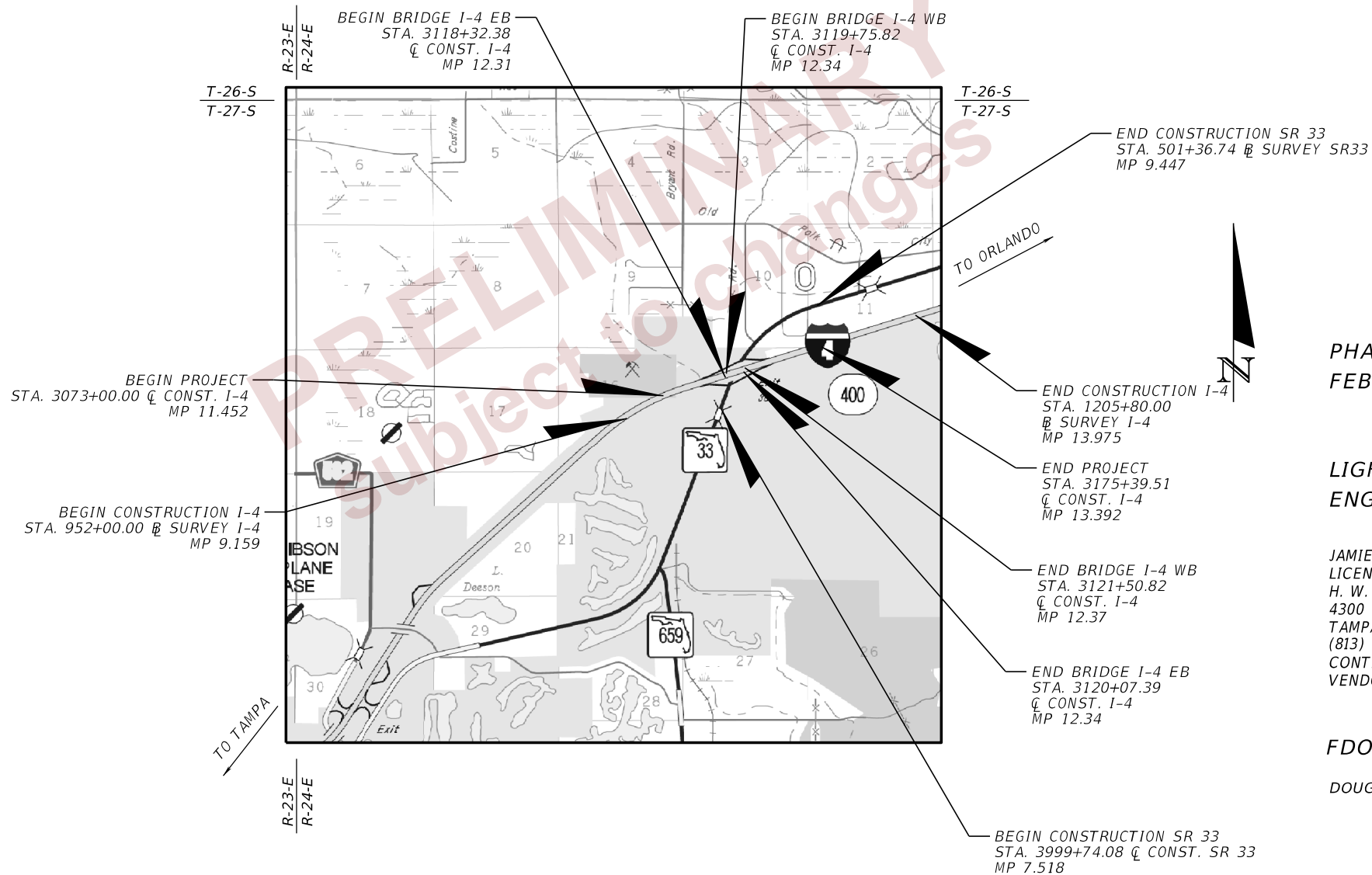
I-4 AT SR 33 INTERCHANGE MODIFICATION

LIGHTING PLANS



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PHASE IV PLANS
FEBRUARY 29, 2024

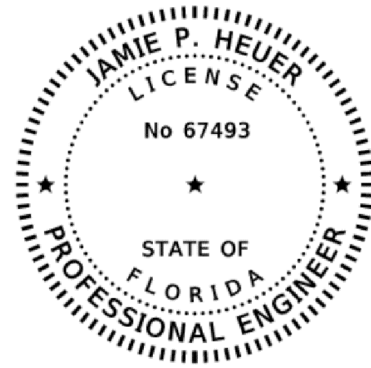
LIGHTING PLANS
ENGINEER OF RECORD:

JAMIE P. HEUER, P.E.
LICENSE NUMBER 67493
H. W. LOCHNER
4300 W. CYPRESS STREET, SUITE 500
TAMPA, FLORIDA 33607
(813) 357-3750
CONTRACT NO.: C9C38
VENDOR NO.: VF362338811001

FDOT PROJECT MANAGER:

DOUG BURKHART, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
T000	25	L-1



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

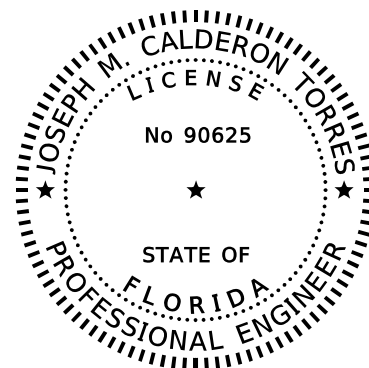
ON THE DATE ADJACENT TO THE SEAL

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H.W. LOCHNER
4350 W. CYPRESS STREET, SUITE 800
TAMPA, FLORIDA 33607
CERTIFICATE OF AUTHORIZATION NO. 894
JAMIE P. HEUER, P.E. NO 67493

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

SHEET NO.	SHEET DESCRIPTION
L-1	KEY SHEET
L-2	SIGNATURE SHEET
L-3	GENERAL NOTES
L-4 - L-9	LIGHTING DATA TABLE AND LEGEND
L-10 - L-11	PROJECT LAYOUT
L-12 - L-40	LIGHTING PLAN
L-41 - L-42	UNDERDECK LIGHTING



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

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H.W. LOCHNER
4350 W. CYPRESS STREET, SUITE 800
TAMPA, FLORIDA 33607
CERTIFICATE OF AUTHORIZATION NO. 894
JOSEPH M. CALDERON TORRES II, P.E. NO 90625

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

SHEET NO.	SHEET DESCRIPTION
L-2	SIGNATURE SHEET
L-43 - L-45	SERVICE POINT DETAILS

PRELIMINARY
subject to changes

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 400	POLK	430185-3-52-01	L-2

SIGNATURE SHEET

GENERAL NOTES

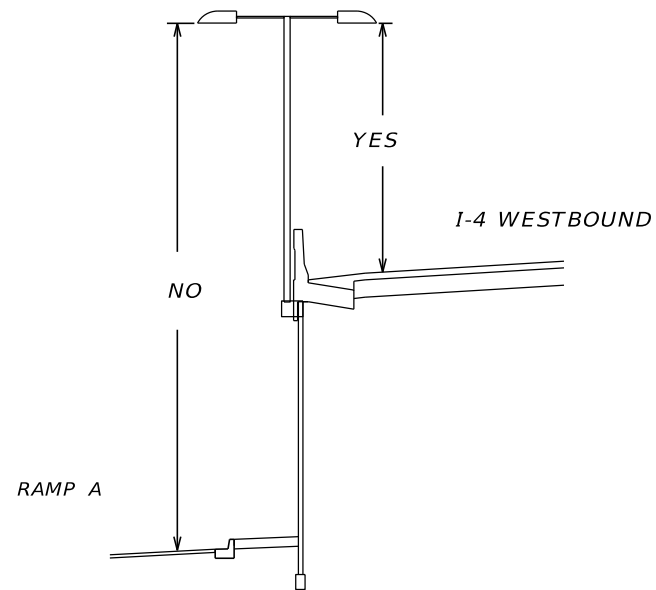
1. UTILITY OWNERS: SEE ROADWAY PLANS.
2. THE LIGHTING SYSTEM WILL BE MAINTAINED BY FDOT ALONG I-4 AND RAMPS AND BY THE CITY OF LAKE LAND ALONG SR 33. LIGHTING CONTROL PANEL A IS FOR FDOT MAINTAINED LIGHTING, AND LIGHTING CONTROL PANELS E AND F ARE FOR CITY OF LAKE LAND MAINTAINED LIGHTING.
3. THE MOUNTING HEIGHT IS THE HEIGHT OF THE FIXTURE RELATIVE TO THE ROADWAY THAT IT IS INTENDED TO LIGHT. ACTUAL POLE LENGTHS MAY VARY. FOR DUAL ARM FIXTURES AT POLE 4 AND POLE 5, USE SHORTEST MOUNTING HEIGHT. SEE MOUNTING DETAIL BELOW.

PAY ITEM NOTES

1. 715-19-63: PAY ITEM INCLUDES THE REMOVAL OF THE EXISTING FOUNDATION AND THE FILLING OF THE VOID DUE TO THE REMOVAL OF THE FOUNDATION. THE REMOVED HIGH MAST POLES, LUMINAIRES, RINGS, AND ASSOCIATED HARDWARE WILL BE STOCKPILED FOR DELIVERY TO FDOT BY THE CONTRACTOR.

PRELIMINARY
subject to changes

MOUNTING HEIGHT DETAIL (SEE GENERAL NOTE 3)



MOUNTING HEIGHT DETAIL FOR POLES 2 AND 4
(NOT TO SCALE)

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<i>GENERAL NOTES</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-3
								SR 400		POLK

**CONVENTIONAL & UNDERDECK
LIGHTING DESIGN CRITERIA**

Average Initial Intensity	1.5 Foot Candles
Uniformity Ratio Avg./Min.	4:1 Or Less
Max./Min.	10:1 Or Less
Wind Speed	140 MPH
Veiling Luminance Ratio	0.3 or Less

**SIGNALIZED INTERSECTION AND
ROUNDAOBT LIGHTING DESIGN CRITERIA**

Average Initial Intensity	3.0 H.F.C. STD., 1.5 H.F.C. MIN. 1.5 V.F.C. STD., 1.2 V.F.C. MIN.
Uniformity Ratio Avg./Min.	4:1 Or Less
Max./Min.	10:1 Or Less
Wind Speed	140 MPH

SYMBOLS

DESCRIPTION

	350 watt LED luminaire, 8 ft. arm, shoulder mounted or traffic railing mounted, designed for Type 4 distribution and integral LED driver wired for 480 volt (FDOT) operation. Pole mounting height is 40 ft. Photometric curve no. RFL-350112LED3K-G2-4.IES at 39574 lumens and 3000K CCT were used as basis of design.
	241 watt LED luminaire, 8 ft. arm, shoulder mounted, designed for Type 2 distribution and integral LED driver wired for 480 volt (FDOT) operation. Pole mounting height is 40 ft. Photometric curve no. RFL-241W112LED3K-G2-R2M.IES at 30916 lumens and 3000K CCT was used as basis of design.
	180 watt LED luminaire, 8 ft. arm, shoulder mounted, designed for Type 2 distribution and integral LED driver wired for 240 volt operation. Pole mounting height is 40 ft. Photometric curve no. RFL-180W80LED3K-G2-2M.IES at 22470 lumens and 3000K CCT were used as basis of design.
	241 watt and 180 watt, 15 ft. and 8 ft. arms, respectively, shoulder mounted, each designed for Type 2 distribution and with integral LED driver wired for 240 volt operation. The 241 watt luminaire is to illuminate the sidewalk and the 180 watt luminaire is to illuminate the travel lanes. Pole mounting height is 40 ft. Photometric curves RFL-241W112LED3K-G2-R2M.IES at 30916 lumens and RFL-180W80LED3K-G2-R2M.IES at 22470 lumens were used as basis of design. The CCT of both luminaires is 3000K.
	241 watt LED luminaire, 8 ft. arm, shoulder mounted, designed for Type 3 distribution and with integral LED driver wired for 240 volt operation. Pole mounting height is 40 ft. Photometric curve no. RFL-350W112LED3K-G2-R3M.IES at 30916 lumens and 3000K CCT were used as basis of design.
	241 watt LED luminaire, 8 ft. arm, pilaster or traffic railing mounted, designed for Type 2 distribution and integral LED driver wired for 480 volt operation. Pole mounting height is 40 ft. Photometric curve no. RFL-241W112LED3K-G2-R2M.IES at 30916 lumens and 3000K CCT was used as basis of design. Symbol also includes pole cable distribution system which is to be paid for separately under pay item 715-500-3.
	350 watt LED luminaire, 8 ft. arm, shoulder mounted, designed for Type 4 distribution and integral LED driver wired for 240 volt operation. Pole mounting height is 40 ft. Photometric curve no. RFL-350112LED3K-G2-4.IES at 39574 lumens and 3000K CCT were used as basis of design.
	241 watt LED luminaire, 8 ft. arm, shoulder mounted, designed for Type 2 distribution and integral LED driver wired for 240 volt operation. Pole mounting height is 40 ft. Photometric curve no. RFL-241W112LED3K-G2-R2M.IES at 30916 lumens and 3000K CCT were used as basis of design.
	180 watt LED luminaire, 8 ft. arm, shoulder mounted, designed for Type 3 distribution and integral LED driver wired for 240 volt operation. Pole mounting height is 40 ft. Photometric curve no. RFL-180W80LED3K-G2-3M.IES at 22400 lumens and 3000K CCT were used as basis of design.
	180 watt LED luminaire, 8 ft. arm, shoulder mounted, designed for Type 4 distribution and integral LED driver wired for 240 volt operation. Pole mounting height is 40 ft. Photometric curve no. RFL-180W80LED3K-G2.IES at 22295 lumens and 3000K CCT were used as basis of design.
	241 watt LED luminaire, 8 ft. arm, shoulder mounted, designed for Type 4 distribution and integral LED driver wired for 240 volt operation. Pole mounting height is 40 ft. Photometric curve no. RFL-241W80LED3K-G2-4.IES at 30676 lumens and 3000K CCT were used as basis of design.
	241 watt LED luminaire, 8 ft. arm, shoulder mounted, designed for Type 3 distribution and with integral LED driver wired for 480 volt operation. Pole mounting height is 40 ft. Photometric curve no. RFL-241W112LED3K-G2-R3M.IES at 30820 lumens and 3000K CCT were used as basis of design.
	241 watt LED luminaire, 8 ft. arm, shoulder mounted, designed for Type 4 distribution and with integral LED driver wired for 480 volt operation. Pole mounting height is 40 ft. Photometric curve no. RFL-241W112LED3K-G2-4.IES at 30676 lumens and 3000K CCT were used as basis of design.

LEGEND

SYMBOLS

DESCRIPTION

	52 watt LED luminaires, wall cap mounted, designed for Type 4 distribution with integral LED driver wired for 480 volt operation. Streetworks Valet photometric curve no. VAL-E02-LED-E-U-GL4-7030 at 5265 lumens and 3000K CCT were used as a basis of design.
	Existing pole and luminaire to remain.
	Existing pole and luminaire to remain.
	Existing pole and luminaire to be removed.
	Existing conduit and conductors to be removed unless noted otherwise.
	Size 2" schedule 40 conduit with THWN-2 conductors inside conduit (conductor size as shown on plan sheets). Run one (1) No. 6 AWG (minimum) copper bond conductor (THWN-2 green insulation) inside conduit with other conductors unless otherwise noted.
	Size 2" HDPE, directionally bored under pavement with THWN-2 conductors inside (conductor size as shown on plan sheets). Extend conduit beyond edge of pavement to pull boxes. Run one (1) No. 6 minimum AWG copper bond conductor (THWN-2 green insulation) inside conduit with other conductors unless otherwise noted. Symbol includes spare conduit which shall be capped at both ends.
	Three - Size 2" Schedule 80 pvc conduits embedded in barrier wall with THWN-2 conductors inside (conductor size as shown on plan sheets). run one #6 awg (minimum) copper bond conductor (THWN-2 green insulation) inside conduit with other conductors. Two conduits are spares.
	Existing high mast pole to be removed. For information only, the high mast pole shafts are approximately 22'.
	Embedded Junction Box. 1'-6" x 1'-6" x 6" NEMA 3R Galvanized Steel junction box in concrete structure per Section 715-002 of Standard Plans for Roadway and Bridge Construction. Junction box to be paid under Pay Item 635-3-13.
	Pull box. See Section 635 of Standard Specifications For Road And Bridge Construction. Cost of concrete slab is incidental to pull box pay item 635-2-11.
	Existing pull box to be removed unless noted otherwise.
	Standard light pole foundation and slab, which is included in the light pole pay item. Symbol also includes pull box and pole cable distribution system which are to be paid for separately under pay items 635-2-11 and 715-500-1, respectively.
	Special light pole foundation and slab, which is included in the light pole pay item. Symbol also includes pull box and pole cable distribution system which are to be paid for separately under pay items 635-2-11 and 715-500-1, respectively.
	50 KVA, single phase power service transformer to provide 240/480 volt service to FDOT maintained lighting system.
	Existing Lighting Control Panel to be removed.
	Lighting Control Panel. For requirements, see Index 639-001 of Standard Plans For Road and Bridge Construction.
	Point of service.

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REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING DATA TABLE AND LEGEND	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607	SR 400	POLK		430185-3-52-01

LIGHTING DATA

POLE NO.	CIRCUIT	STATION	OFFSET	ARM LENGTH	ARM CONFIGURATION	NUMBER OF LUMINAIRES	INPUT WATTAGE LUMINAIRES	MOUNTING HEIGHT	TILT ANGLE	INPUT VOLTAGE	LOCATION	FOUNDATION	MAINTAINING AGENCY	PAY ITEM
1	A-3	3104+09 C CONST. I-4	130.7' RT	8'	SINGLE	1	241	40'	0°	480	PILASTER MOUNTED	NA	FDOT	715-61-311
2	A-4	3109+50 C CONST. I-4	129.3' LT	8'	DOUBLE	2	241	40'	0°	480	TRAFFIC RAILING MOUNTED	NA	FDOT	715-63-311
3	A-3	3106+04 C CONST. I-4	130.7' RT	8'	SINGLE	1	241	40'	0°	480	PILASTER MOUNTED	NA	FDOT	715-61-311
4	A-4	3111+85 C CONST. I-4	129.3' LT	8'	DOUBLE	2	241	40'	0°	480	TRAFFIC RAILING MOUNTED	NA	FDOT	715-63-311
5	A-3	3107+99 C CONST. I-4	130.7' RT	8'	SINGLE	1	241	40'	0°	480	PILASTER MOUNTED	NA	FDOT	715-61-311
6	A-4	3114+05 C CONST. I-4	130.7' LT	8'	SINGLE	1	241	40'	0°	480	PILASTER MOUNTED	NA	FDOT	715-61-311
7	A-3	3109+94 C CONST. I-4	130.7' RT	8'	SINGLE	1	241	40'	0°	480	PILASTER MOUNTED	NA	FDOT	715-61-311
8	A-4	3116+07 C CONST. I-4	130.7' LT	8'	SINGLE	1	241	40'	0°	480	PILASTER MOUNTED	NA	FDOT	715-61-311
9	A-3	3111+89 C CONST. I-4	130.7' RT	8'	SINGLE	1	241	40'	0°	480	PILASTER MOUNTED	NA	FDOT	715-61-311
10	A-4	3118+12 C CONST. I-4	130.7' LT	8'	SINGLE	1	241	40'	0°	480	PILASTER MOUNTED	NA	FDOT	715-61-311
11	A-3	3113+84 C CONST. I-4	130.7' RT	8'	SINGLE	1	241	40'	0°	480	PILASTER MOUNTED	NA	FDOT	715-61-311
12	A-4	3120+06 C CONST. I-4	130.7' LT	8'	SINGLE	1	241	40'	0°	480	PILASTER MOUNTED	NA	FDOT	715-61-311
13	A-3	3115+79 C CONST. I-4	130.7' RT	8'	SINGLE	1	241	40'	0°	480	PILASTER MOUNTED	NA	FDOT	715-61-311
14	A-4	3122+21 C CONST. I-4	130.7' LT	8'	SINGLE	1	241	40'	0°	480	PILASTER MOUNTED	NA	FDOT	715-61-311
15	A-3	3117+74 C CONST. I-4	130.7' RT	8'	SINGLE	1	241	40'	0°	480	PILASTER MOUNTED	NA	FDOT	715-61-311
16	A-6	3124+06 C CONST. I-4	130.7' LT	8'	SINGLE	1	241	40'	0°	480	PILASTER MOUNTED	NA	FDOT	715-61-311
17	A-3	3120+05 C CONST. I-4	130.7' RT	8'	SINGLE	1	241	40'	0°	480	PILASTER MOUNTED	NA	FDOT	715-61-311
18	A-6	3125+65 C CONST. I-4	130.7' LT	8'	SINGLE	1	241	40'	0°	480	PILASTER MOUNTED	NA	FDOT	715-61-311
19	A-5	3121+68 C CONST. I-4	130.7' RT	8'	SINGLE	1	241	40'	0°	480	PILASTER MOUNTED	NA	FDOT	715-61-311
20	A-6	3127+60 C CONST. I-4	130.7' LT	8'	SINGLE	1	241	40'	0°	480	PILASTER MOUNTED	NA	FDOT	715-61-311
21	A-5	3123+63 C CONST. I-4	130.7' RT	8'	SINGLE	1	241	40'	0°	480	PILASTER MOUNTED	NA	FDOT	715-61-311
22	A-6	3129+55 C CONST. I-4	130.7' LT	8'	SINGLE	1	241	40'	0°	480	PILASTER MOUNTED	NA	FDOT	715-61-311
23	A-5	3125+58 C CONST. I-4	130.7' RT	8'	SINGLE	1	241	40'	0°	480	PILASTER MOUNTED	NA	FDOT	715-61-311
24	A-6	3131+50 C CONST. I-4	130.7' LT	8'	SINGLE	1	241	40'	0°	480	PILASTER MOUNTED	NA	FDOT	715-61-311
25	A-5	3127+53 C CONST. I-4	130.7' RT	8'	SINGLE	1	241	40'	0°	480	PILASTER MOUNTED	NA	FDOT	715-61-311
26	A-6	3133+45 C CONST. I-4	130.7' LT	8'	SINGLE	1	241	40'	0°	480	PILASTER MOUNTED	NA	FDOT	715-61-311
27	A-5	3129+48 C CONST. I-4	130.7' RT	8'	SINGLE	1	241	40'	0°	480	PILASTER MOUNTED	NA	FDOT	715-61-311
28	A-6	3135+40 C CONST. I-4	130.7' LT	8'	SINGLE	1	241	40'	0°	480	PILASTER MOUNTED	NA	FDOT	715-61-311
29	A-5	3131+43 C CONST. I-4	130.7' RT	8'	SINGLE	1	241	40'	0°	480	PILASTER MOUNTED	NA	FDOT	715-61-311
30	A-6	3137+35 C CONST. I-4	133.1' LT	8'	SINGLE	1	241	40'	0°	480	5.0 FFOB	STANDARD	FDOT	715-61-311
31	A-5	3133+38 C CONST. I-4	130.7' RT	8'	SINGLE	1	241	40'	0°	480	PILASTER MOUNTED	NA	FDOT	715-61-311
32	A-6	3139+30 C CONST. I-4	133.1' LT	8'	SINGLE	1	241	40'	0°	480	5.0 FFOB	STANDARD	FDOT	715-61-311
33	A-5	3135+33 C CONST. I-4	129.0' RT	8'	SINGLE	1	241	40'	0°	480	TRAFFIC RAILING MOUNTED	STANDARD	FDOT	715-61-311
34	A-6	3141+25 C CONST. I-4	133.1' LT	8'	SINGLE	1	241	40'	0°	480	5.0 FFOB	STANDARD	FDOT	715-61-311
35	A-5	3137+28 C CONST. I-4	129.0' RT	8'	SINGLE	1	241	40'	0°	480	TRAFFIC RAILING MOUNTED	STANDARD	FDOT	715-61-311
36	- - -	NOT USED	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
37	A-5	3139+23 C CONST. I-4	129.0' RT	8'	SINGLE	1	241	40'	0°	480	TRAFFIC RAILING MOUNTED	STANDARD	FDOT	715-61-311
38	- - -	NOT USED	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
39	A-5	3141+18 C CONST. I-4	129.0' RT	8'	SINGLE	1	241	40'	0°	480	TRAFFIC RAILING MOUNTED	STANDARD	FDOT	715-61-311
RA1	A-9	3076+15 C CONST. I-4	138.1' LT	8'	SINGLE	1	241	40'	0°	480	20' FEOTL	STANDARD	FDOT	715-61-311
RA2	A-9	3078+05 C CONST. I-4	139.7' LT	8'	SINGLE	1	241	40'	0°	480	20' FEOTL	STANDARD	FDOT	715-61-311
RA3	A-9	3079+95 C CONST. I-4	143.4' LT	8'	SINGLE	1	241	40'	0°	480	20' FEOTL	STANDARD	FDOT	715-61-311
RA4	A-9	3081+85 C CONST. I-4	147.4' LT	8'	SINGLE	1	241	40'	0°	480	20' FEOTL	STANDARD	FDOT	715-61-311
RA5	A-9	3083+75 C CONST. I-4	151.1' LT	8'	SINGLE	1	350	40'	0°	480	20' FEOTL	STANDARD	FDOT	715-61-311
RA6	A-9	3085+45 C CONST. I-4	154.5' LT	8'	SINGLE	1	350	40'	0°	480	20' FEOTL	STANDARD	FDOT	715-61-311
RA7	A-9	3087+15 C CONST. I-4	158.0' LT	8'	SINGLE	1	350	40'	0°	480	20' FEOTL	STANDARD	FDOT	715-61-311
RA8	A-9	3088+85 C CONST. I-4	155.5' LT	8'	SINGLE	1	350	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RA9	A-9	102+35 RAMP A	14.0' LT	8'	SINGLE	1	350	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RA10	A-2	104+05 RAMP A	14.0' LT	8'	SINGLE	1	350	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RA11	A-2	105+75 RAMP A	14.0' LT	8'	SINGLE	1	350	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311

BEOS - FROM BACK EDGE OF SIDEWALK FEOTL - FROM EDGE OF TRAVEL LANE
 FFOG - FROM FRONT FACE OF GUARDRAIL FFOC - FROM FRONT FACE OF CURB

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING DATA TABLE AND LEGEND	SHEET NO. L-5
DATE	DESCRIPTION	DATE	DESCRIPTION	JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	430185-3-52-01		

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LIGHTING DATA

POLE NO.	CIRCUIT	STATION	OFFSET	ARM LENGTH	ARM CONFIGURATION	NUMBER OF LUMINAIRES	INPUT WATTAGE LUMINAIRES	MOUNTING HEIGHT	TILT ANGLE	INPUT VOLTAGE	LOCATION	FOUNDATION	MAINTAINING AGENCY	PAY ITEM
RA12	A-2	107+45 @ RAMP A	14.0' LT	8'	SINGLE	1	350	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RA13	A-2	109+15 @ RAMP A	14.0' LT	8'	SINGLE	1	350	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RA14	A-2	110+85 @ RAMP A	14.0' LT	8'	SINGLE	1	350	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RA15	A-2	112+55 @ RAMP A	14.0' LT	8'	SINGLE	1	350	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RA16	A-2	114+25 @ RAMP A	17.0' LT	8'	SINGLE	1	350	40'	0°	480	5' FFOG	STANDARD	FDOT	715-61-311
RA17	A-2	115+95 @ RAMP A	17.0' LT	8'	SINGLE	1	350	40'	0°	480	5' FFOG	STANDARD	FDOT	715-61-311
RA18	A-2	117+65 @ RAMP A	17.0' LT	8'	SINGLE	1	350	40'	0°	480	5' FFOG	STANDARD	FDOT	715-61-311
RA19	A-2	119+35 @ RAMP A	17.0' LT	8'	SINGLE	1	350	40'	0°	480	5' FFOG	STANDARD	FDOT	715-61-311
RA20	A-2	126+30 @ RAMP A	17.0' LT	8'	SINGLE	1	241	40'	0°	480	5' FFOG	STANDARD	FDOT	715-61-311
RA21	A-2	128+60 @ RAMP A	14.0' LT	8'	SINGLE	1	241	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RA22	A-2	130+90 @ RAMP A	14.0' LT	8'	SINGLE	1	241	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RA23	A-2	133+25 @ RAMP A	14.0' LT	8'	SINGLE	1	241	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RB1	A-1	3086+87 @ CONST. 1-4	68.5' RT	8'	SINGLE	1	241	40'	0°	480	5' FFOG	STANDARD	FDOT	715-61-311
RB2	A-1	200+34 @ RAMP B	11.3' RT	8'	SINGLE	1	350	40'	0°	480	TRAFFIC RAILING MOUNTED	STANDARD	FDOT	715-61-311
RB3	A-1	202+04 @ RAMP B	11.3' RT	8'	SINGLE	1	350	40'	0°	480	TRAFFIC RAILING MOUNTED	STANDARD	FDOT	715-61-311
RB4	A-1	203+74 @ RAMP B	11.3' RT	8'	SINGLE	1	350	40'	0°	480	TRAFFIC RAILING MOUNTED	STANDARD	FDOT	715-61-311
RB5	A-1	205+44 @ RAMP B	11.3' RT	8'	SINGLE	1	350	40'	0°	480	TRAFFIC RAILING MOUNTED	STANDARD	FDOT	715-61-311
RB6	A-1	207+14 @ RAMP B	11.3' RT	8'	SINGLE	1	350	40'	0°	480	TRAFFIC RAILING MOUNTED	STANDARD	FDOT	715-61-311
RB7	A-1	208+84 @ RAMP B	11.3' RT	8'	SINGLE	1	350	40'	0°	480	TRAFFIC RAILING MOUNTED	STANDARD	FDOT	715-61-311
RB8	A-1	210+54 @ RAMP B	11.3' RT	8'	SINGLE	1	350	40'	0°	480	TRAFFIC RAILING MOUNTED	STANDARD	FDOT	715-61-311
RB9	A-1	212+24 @ RAMP B	11.3' RT	8'	SINGLE	1	350	40'	0°	480	TRAFFIC RAILING MOUNTED	STANDARD	FDOT	715-61-311
RB10	A-1	213+94 @ RAMP B	11.3' RT	8'	SINGLE	1	350	40'	0°	480	TRAFFIC RAILING MOUNTED	STANDARD	FDOT	715-61-311
RB11	A-1	216+05 @ RAMP B	11.3' RT	8'	SINGLE	1	241	40'	0°	480	TRAFFIC RAILING MOUNTED	STANDARD	FDOT	715-61-311
RB12	A-1	218+40 @ RAMP B	25.2' RT	8'	SINGLE	1	241	40'	0°	480	18' FEOTL	STANDARD	FDOT	715-61-311
RB13	A-1	220+73 @ RAMP B	23.3' RT	8'	SINGLE	1	241	40'	0°	480	23.3' FEOTL	STANDARD	FDOT	715-61-311
RB14	A-1	223+07 @ RAMP B	14.0' RT	8'	SINGLE	1	241	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RB15	A-1	225+42 @ RAMP B	14.0' RT	8'	SINGLE	1	241	40'	0°	480	14' FEOTL	SPECIAL	FDOT	715-62-311
RB16	A-1	226+84 @ RAMP B	68.2' LT	8'	SINGLE	1	241	40'	0°	480	6' FFOG	STANDARD	FDOT	715-61-311
RC1	A-7	306+35 @ RAMP C	17.0' RT	8'	SINGLE	1	241	40'	0°	480	5' FFOG	STANDARD	FDOT	715-61-311
RC2	A-7	308+70 @ RAMP C	14.0' RT	8'	SINGLE	1	241	40'	0°	480	20' FEOTL	STANDARD	FDOT	715-61-311
RC3	A-7	311+05 @ RAMP C	14.0' RT	8'	SINGLE	1	241	40'	0°	480	20' FEOTL	STANDARD	FDOT	715-61-311
RC4	A-7	313+40 @ RAMP C	14.0' RT	8'	SINGLE	1	241	40'	0°	480	20' FEOTL	STANDARD	FDOT	715-61-311
RC5	A-7	315+75 @ RAMP C	14.0' RT	8'	SINGLE	1	241	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RC6	A-7	318+10 @ RAMP C	14.0' RT	8'	SINGLE	1	241	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RC7	A-7	320+45 @ RAMP C	14.0' RT	8'	SINGLE	1	241	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RC8	A-7	322+80 @ RAMP C	14.0' RT	8'	SINGLE	1	241	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RC9	A-7	325+15 @ RAMP C	14.0' RT	8'	SINGLE	1	241	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RC10	A-7	327+50 @ RAMP C	14.0' RT	8'	SINGLE	1	241	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RC11	A-7	329+55 @ RAMP C	14.0' RT	8'	SINGLE	1	350	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RC12	A-7	331+25 @ RAMP C	14.0' RT	8'	SINGLE	1	350	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RC13	A-7	332+95 @ RAMP C	14.0' RT	8'	SINGLE	1	350	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RC14	A-7	334+65 @ RAMP C	14.0' RT	8'	SINGLE	1	350	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RC15	A-7	336+35 @ RAMP C	14.0' RT	8'	SINGLE	1	350	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RC16	A-7	338+05 @ RAMP C	20.0' RT	8'	SINGLE	1	350	40'	0°	480	20' FEOTL	STANDARD	FDOT	715-61-311
RC17	A-7	339+75 @ RAMP C	20.0' RT	8'	SINGLE	1	350	40'	0°	480	20' FEOTL	STANDARD	FDOT	715-61-311
RC18	A-7	341+45 @ RAMP C	20.0' RT	8'	SINGLE	1	350	40'	0°	480	20' FEOTL	STANDARD	FDOT	715-61-311
RC19	A-7	3155+84 @ CONST. 1-4	124.3' RT	8'	SINGLE	1	350	40'	0°	480	20' FEOTL	STANDARD	FDOT	715-61-311
RC20	A-7	3157+54 @ CONST. 1-4	108.6' RT	8'	SINGLE	1	350	40'	0°	480	20' FEOTL	STANDARD	FDOT	715-61-311
RC21	A-7	3159+24 @ CONST. 1-4	94.8' RT	8'	SINGLE	1	350	40'	0°	480	20' FEOTL	STANDARD	FDOT	715-61-311
RD1	A-8	402+75 @ RAMP D	14.0' LT	8'	SINGLE	1	241	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311

BEOS - FROM BACK EDGE OF SIDEWALK FEOTL - FROM EDGE OF TRAVEL LANE
 FFOG - FROM FRONT FACE OF GUARDRAIL FFOG - FROM FRONT FACE OF CURB

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING DATA TABLE AND LEGEND	SHEET NO. L-6
DATE	DESCRIPTION	DATE	DESCRIPTION	JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	430185-3-52-01		

LIGHTING DATA

POLE NO.	CIRCUIT	STATION	OFFSET	ARM LENGTH	ARM CONFIGURATION	NUMBER OF LUMINAIRES	INPUT WATTAGE LUMINAIRES	MOUNTING HEIGHT	TILT ANGLE	INPUT VOLTAGE	LOCATION	FOUNDATION	MAINTAINING AGENCY	PAY ITEM
RD2	A-8	405+10 @ RAMP D	14.0' LT	8'	SINGLE	1	241	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RD3	A-8	407+45 @ RAMP D	14.0' LT	8'	SINGLE	1	241	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RD4	A-8	409+80 @ RAMP D	14.0' LT	8'	SINGLE	1	241	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RD5	A-8	412+15 @ RAMP D	14.0' LT	8'	SINGLE	1	241	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RD6	A-8	414+45 @ RAMP D	14.0' LT	8'	SINGLE	1	241	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RD7	A-8	416+80 @ RAMP D	24.0' LT	8'	SINGLE	1	241	40'	0°	480	24' FEOTL	STANDARD	FDOT	715-61-311
RD8	A-8	419+15 @ RAMP D	14.0' LT	8'	SINGLE	1	241	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RD9	A-8	420+65 @ RAMP D	14.0' LT	8'	SINGLE	1	350	40'	0°	480	14' FEOTL	STANDARD	FDOT	715-61-311
RD10	A-8	422+35 @ RAMP D	14.0' LT	8'	SINGLE	1	350	40'	0°	240	14' FEOTL	STANDARD	FDOT	715-61-311
RD11	A-8	424+05 @ RAMP D	14.0' LT	8'	SINGLE	1	350	40'	0°	240	14' FEOTL	STANDARD	FDOT	715-61-311
RD12	A-8	425+75 @ RAMP D	14.0' LT	8'	SINGLE	1	350	40'	0°	240	14' FEOTL	STANDARD	FDOT	715-61-311
RD13	A-8	3151+18 @ CONST. I-4	138.0' LT	8'	SINGLE	1	350	40'	0°	240	20' FEOTL	STANDARD	FDOT	715-61-311
E1	E-1	3400+44 @ CONST. SR 33	54.1' RT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
E2	E-2	3400+82 @ CONST. SR 33	40.5' RT	8', 15'	DOUBLE	2	180/241	40'	0°	240	6' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
E3	E-1	3402+44 @ CONST. SR 33	54.1' RT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
E4	E-2	3402+82 @ CONST. SR 33	40.5' LT	8', 15'	DOUBLE	2	180/241	40'	0°	240	6' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
E5	E-1	3404+49 @ CONST. SR 33	54.1' RT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
E6	E-2	3404+82 @ CONST. SR 33	43.6' LT	8', 15'	DOUBLE	2	180/241	40'	0°	240	7.5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
E7	E-1	3406+49 @ CONST. SR 33	54.1' RT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
E8	E-2	3406+98 @ CONST. SR 33	50.6' LT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
E9	E-1	3408+49 @ CONST. SR 33	54.1' RT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
E10	E-2	3408+98 @ CONST. SR 33	50.6' LT	8'	SINGLE	1	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-61-311
E11	E-1	3410+49 @ CONST. SR 33	54.1' RT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
E12	E-2	3410+98 @ CONST. SR 33	50.6' LT	8'	SINGLE	1	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-61-311
E13	E-1	3412+49 @ CONST. SR 33	54.1' RT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
E14	E-2	3412+95 @ CONST. SR 33	39.7' LT	8'	SINGLE	1	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-61-311
E15	E-1	3414+67 @ CONST. SR 33	38.8' RT	8'	DOUBLE	2	180	40'	0°	240	4' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
E16	E-2	3414+95 @ CONST. SR 33	39.7' LT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
E17	E-1	3416+87 @ CONST. SR 33	41.5' RT	8'	DOUBLE	2	180	40'	0°	240	4' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
E18	E-2	3416+95 @ CONST. SR 33	47.1' LT	8'	SINGLE	1	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-61-311
E19	E-3	3417+99 @ CONST. SR 33	103.1' RT	8'	SINGLE	1	350	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
E20	E-2	3417+99 @ CONST. SR 33	98.9' LT	8'	SINGLE	1	241	40'	0°	240	2' BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
E21	E-3	52+29 @ CONST. UNIVERSITY BLVD.	78.8' LT	8'	SINGLE	1	241	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
E22	E-7	3420+09 @ CONST. SR 33	85.5' LT	8'	SINGLE	1	241	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
E23	E-3	52+28 @ CONST. UNIVERSITY BLVD.	75.4' RT	8'	SINGLE	1	241	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
E24	E-7	3420+82 @ CONST. SR 33	41.1' LT	8'	SINGLE	1	241	40'	0°	240	4' FFOC	STANDARD	CITY OF LAKELAND	715-61-311
E25	E-3	3420+06 @ CONST. SR 33	95.5' RT	8'	SINGLE	1	350	40'	0°	240	6.3' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
E26	E-7	3422+32 @ CONST. SR 33	40.4' LT	8'	SINGLE	1	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-61-311
E27	E-3	3421+92 @ CONST. SR 33	44.0' LT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
E28	E-7	3424+29 @ CONST. SR 33	39.5' LT	8'	SINGLE	1	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-61-311
E29	E-3	3423+92 @ CONST. SR 33	39.5' RT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
E30	E-7	3426+09 @ CONST. SR 33	46.2' LT	8'	SINGLE	1	180	40'	0°	240	12' FFOC	STANDARD	CITY OF LAKELAND	715-61-311
E31	E-3	3426+07 @ CONST. SR 33	39.5' RT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
E32	E-7	3428+42 @ CONST. SR 33	50.5' LT	8'	SINGLE	1	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-61-311
E33	E-3	3428+22 @ CONST. SR 33	39.5' RT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
E34	E-7	3430+42 @ CONST. SR 33	50.5' LT	8'	SINGLE	1	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-61-311
E35	E-3	3430+37 @ CONST. SR 33	39.5' RT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
E36	E-7	3434+57 @ CONST. SR 33	39.6' LT	8'	SINGLE	1	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-61-311
E37	E-3	3432+52 @ CONST. SR 33	39.5' RT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
E38	E-7	3436+57 @ CONST. SR 33	39.6' LT	8'	SINGLE	1	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-61-311

BEOS - FROM BACK EDGE OF SIDEWALK FEOTL - FROM EDGE OF TRAVEL LANE
 FFOG - FROM FRONT FACE OF GUARDRAIL FFOC - FROM FRONT FACE OF CURB

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING DATA TABLE AND LEGEND	SHEET NO. L-7
DATE	DESCRIPTION	DATE	DESCRIPTION	JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	430185-3-52-01		

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LIGHTING DATA

POLE NO.	CIRCUIT	STATION	OFFSET	ARM LENGTH	ARM CONFIGURATION	NUMBER OF LUMINAIRES	INPUT WATTAGE LUMINAIRES	MOUNTING HEIGHT	TILT ANGLE	INPUT VOLTAGE	LOCATION	FOUNDATION	MAINTAINING AGENCY	PAY ITEM
E39	E-3	3434+67 C CONST. SR 33	39.5' RT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
E40	E-7	3438+55 C CONST. SR 33	39.5' LT	8'	SINGLE	1	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-61-311
E41	E-3	3436+82 C CONST. SR 33	39.5' RT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
E42	E-7	3440+58 C CONST. SR 33	39.5' LT	8'	SINGLE	1	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-61-311
E43	E-3	3438+93 C CONST. SR 33	50.6' RT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
E44	E-7	3442+09 C CONST. SR 33	73.4' LT	8'	SINGLE	1	241	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
E45	E-5	3441+17 C CONST. SR 33	122.1' RT	8'	SINGLE	1	350	40'	0°	240	54.9' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
E46	E-7	3442+73 C CONST. SR 33	98.7' LT	8'	SINGLE	1	241	40'	0°	240	4' BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
E47	E-5	304+02 R RAMP C	13.2' RT	8'	SINGLE	1	241	40'	0°	240	11.7' FFOC	SPECIAL	CITY OF LAKELAND	715-62-311
E48	E-7	3444+26 C CONST. SR 33	119.5' LT	8'	SINGLE	1	241	40'	0°	240	4' BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
E49	E-5	304+68 R RAMP C	12.0' RT	8'	SINGLE	1	241	40'	0°	240	10.5' FFOC	SPECIAL	CITY OF LAKELAND	715-62-311
E50	E-7	3445+30 C CONST. SR 33	58.8' LT	8'	SINGLE	1	241	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
E51	E-5	3444+48 C CONST. SR 33	93.6' RT	8'	SINGLE	1	241	40'	0°	240	4' BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
E52	- - -	NOT USED	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
E53	E-5	3445+67 C CONST. SR 33	51.1' RT	8'	SINGLE	1	241	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
E54	E-4	3407+90 C CONST. SR 33	107.4' LT	8'	SINGLE	1	180	40'	0°	240	BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
E55	E-4	3409+80 C CONST. SR 33	122.6' LT	8'	SINGLE	1	180	40'	0°	240	BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
E56	E-4	3411+65 C CONST. SR 33	135.5' LT	8'	SINGLE	1	180	40'	0°	240	BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
E57	E-4	3413+55 C CONST. SR 33	143.7' LT	8'	SINGLE	1	180	40'	0°	240	BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
E58	E-4	3415+45 C CONST. SR 33	153.0' LT	8'	SINGLE	1	180	40'	0°	240	BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
E59	E-4	3417+40 C CONST. SR 33	143.6' LT	8'	SINGLE	1	180	40'	0°	240	BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
E60	E-4	34+09 C CONST. FIRST PARK BLVD	28.3' RT	8'	SINGLE	1	180	40'	0°	240	9.0' FFOC	STANDARD	CITY OF LAKELAND	715-61-311
E61	E-6	34+39 C FIRST PARK BLVD.	60.7' LT	8'	SINGLE	1	180	40'	0°	240	1' BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
E62	E-6	3420+40 C CONST. SR 33	160.1' LT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
E63	E-6	3422+42 C CONST. SR 33	137.1' LT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
E64	E-6	3424+32 C CONST. SR 33	135.1' LT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
E65	E-6	3426+32 C CONST. SR 33	134.7' LT	8'	SINGLE	1	180	40'	0°	240	BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
E66	E-6	3428+32 C CONST. SR 33	134.7' LT	8'	SINGLE	1	180	40'	0°	240	BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
E67	E-6	3430+32 C CONST. SR 33	134.7' LT	8'	SINGLE	1	180	40'	0°	240	BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
E68	E-6	3432+39 C CONST. SR 33	59.7' LT	8'	DOUBLE	2	180	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-512-140
E69	E-6	3434+62 C CONST. SR 33	134.6' LT	8'	SINGLE	1	180	40'	0°	240	BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
E70	E-6	3436+64 C CONST. SR 33	136.3' LT	8'	SINGLE	1	180	40'	0°	240	BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
E71	E-6	3438+69 C CONST. SR 33	141.5' LT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
E72	E-6	3440+57 C CONST. SR 33	118.1' LT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
F1	F-1	3448+62 C CONST. SR 33	50.1' RT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
F2	F-2	3447+83 C CONST. SR 33	49.9' LT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
F3	F-1	3451+10 C CONST. SR 33	60.7' RT	8'	SINGLE	1	241	40'	0°	240	4' BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
F4	F-2	3450+71 C CONST. SR 33	53.4' LT	8'	SINGLE	1	241	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
F5	F-1	3452+06 C CONST. SR 33	131.2' RT	8'	SINGLE	1	241	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
F6	F-2	3451+94 C CONST. SR 33	88.8' LT	8'	SINGLE	1	350	40'	0°	240	4' BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
F7	F-1	400+99 R RAMP D	68.2' RT	8'	SINGLE	1	241	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-61-311
F8	F-2	3452+85 C CONST. SR 33	137.3' LT	8'	SINGLE	1	241	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-61-311
F9	F-1	3453+86 C CONST. SR 33	90.6' RT	8'	SINGLE	1	241	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
F10	F-2	3454+36 C CONST. SR 33	94.5' LT	8'	SINGLE	1	350	40'	0°	240	4' BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
F11	F-1	3454+75 C CONST. SR 33	58.3' RT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
F12	F-2	3455+25 C CONST. SR 33	74.8' LT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
F13	F-1	3456+39 C CONST. SR 33	55.8' RT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
F14	F-2	3456+92 C CONST. SR 33	65.1' LT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
F15	F-1	3458+22 C CONST. SR 33	54.0' RT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
F16	F-2	3458+70 C CONST. SR 33	65.1' LT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311

BEOS - FROM BACK EDGE OF SIDEWALK FEOTL - FROM EDGE OF TRAVEL LANE
 FFOG - FROM FRONT FACE OF GUARDRAIL FFOC - FROM FRONT FACE OF CURB

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING DATA TABLE AND LEGEND	SHEET NO. L-8
DATE	DESCRIPTION	DATE	DESCRIPTION	JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	430185-3-52-01		

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LIGHTING DATA

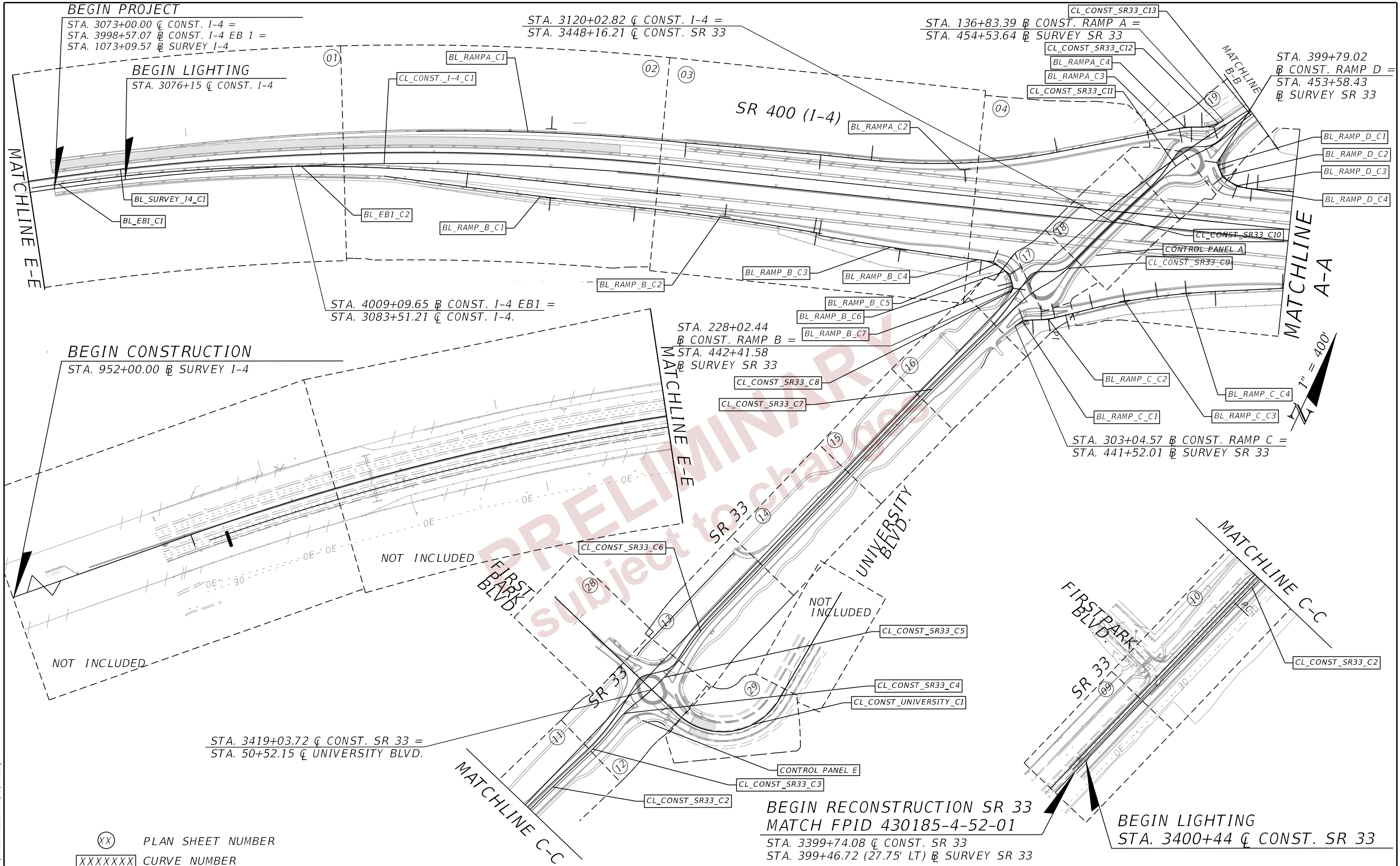
POLE NO.	CIRCUIT	STATION	OFFSET	ARM LENGTH	ARM CONFIGURATION	NUMBER OF LUMINAIRES	INPUT WATTAGE LUMINAIRES	MOUNTING HEIGHT	TILT ANGLE	INPUT VOLTAGE	LOCATION	FOUNDATION	MAINTAINING AGENCY	PAY ITEM
F17	F-1	3460+03 C CONST. SR 33	54.0' RT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
F18	F-2	3460+47 C CONST. SR 33	72.6' LT	8'	DOUBLE	2	180	40'	0°	240	12' BEOS	STANDARD	CITY OF LAKELAND	715-512-140
F19	F-1	3461+86 C CONST. SR 33	55.9' RT	8'	DOUBLE	2	180	40'	0°	240	5.8' BEOS	STANDARD	CITY OF LAKELAND	715-512-140
F19A	F-1	3462+96 C CONST. SR 33	175.5' RT	8'	SINGLE	1	180	40'	0°	240	175.5' RT	STANDARD	CITY OF LAKELAND	715-61-311
F20	F-2	3462+50 C CONST. SR 33	39.5' LT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
F21	F-1	3463+69 C CONST. SR 33	57.5' RT	8'	SINGLE	1	180	40'	0°	240	7.5' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
F22	F-2	3464+56 C CONST. SR 33	39.5' LT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
F23	F-1	3465+73 C CONST. SR 33	39.5' RT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
F24	F-2	3466+57 C CONST. SR 33	39.5' LT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
F25	F-1	3467+78 C CONST. SR 33	50.6' RT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
F26	F-2	3468+62 C CONST. SR 33	39.5' LT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
F27	F-1	3469+88 C CONST. SR 33	50.6' RT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
F28	F-2	3470+62 C CONST. SR 33	39.5' LT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
F29	F-1	3471+93 C CONST. SR 33	46.0' RT	8'	DOUBLE	2	180	40'	0°	240	10.2' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
F30	F-2	3472+67 C CONST. SR 33	39.5' LT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
F31	F-1	3473+98 C CONST. SR 33	50.6' RT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
F32	F-2	3474+72 C CONST. SR 33	39.5' LT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
F33	F-1	3476+09 C CONST. SR 33	50.6' RT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
F33A	F-1	3477+19 C CONST. SR 33	76.1' RT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
F33B	F-1	3478+07 C CONST. SR 33	83.7' RT	8'	SINGLE	1	180	40'	0°	240	5' FFOC	SPECIAL	CITY OF LAKELAND	715-62-311
F34	F-4	3476+31 C CONST. SR 33	65.1' LT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
F34A	F-1	3476+65 C CONST. SR 33	107.0' LT	8'	SINGLE	1	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-61-311
F35	F-3	3478+52 C CONST. SR 33	81.5' RT	8'	SINGLE	1	180	40'	0°	240	4.5' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
F36	F-4	3478+00 C CONST. SR 33	71.0' LT	8'	SINGLE	1	180	40'	0°	240	9.9' BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
F37	F-3	3480+27 C CONST. SR 33	39.6' RT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
F38	F-4	3479+52 C CONST. SR 33	65.1' LT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	SPECIAL	CITY OF LAKELAND	715-62-311
F39	F-3	3482+32 C CONST. SR 33	38.9' RT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
F40	F-4	3481+49 C CONST. SR 33	64.7' LT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
F41	F-3	3484+37 C CONST. SR 33	38.1' RT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
F42	F-4	3483+52 C CONST. SR 33	53.3' LT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
F43	F-3	3486+45 C CONST. SR 33	36.9' RT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
F44	F-4	3485+41 C CONST. SR 33	52.5' LT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
F45	F-3	3488+50 C CONST. SR 33	50.8' RT	8'	DOUBLE	2	180	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-512-140
F46	F-4	3487+29 C CONST. SR 33	38.1' LT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
F47	F-3	3490+58 C CONST. SR 33	49.2' RT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
F48	F-4	3489+39 C CONST. SR 33	35.9' LT	8'	DOUBLE	2	180	40'	0°	240	5' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
F49	F-3	3492+62 C CONST. SR 33	47.2' RT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
F50	F-4	3491+39 C CONST. SR 33	39.1' LT	8'	DOUBLE	2	180	40'	0°	240	21.3' FFOC	STANDARD	CITY OF LAKELAND	715-512-140
F51	F-3	3494+62 C CONST. SR 33	45.1' RT	8'	SINGLE	1	180	40'	0°	240	4' BEOS	STANDARD	CITY OF LAKELAND	715-61-311
F52	F-4	3493+34 C CONST. SR 33	33.7' LT	8'	DOUBLE	2	180	40'	0°	240	20' FEOTL	STANDARD	CITY OF LAKELAND	715-512-140
F53	- - -	NOT USED	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
F54	F-4	3495+39 C CONST. SR 33	32.1' LT	8'	DOUBLE	2	180	40'	0°	240	20' FEOTL	STANDARD	CITY OF LAKELAND	715-512-140
UD-1	A-3	3118+26 C CONST. I-4	102.8' RT	NA	NA	1	52	15.5'	NA	480	WALL CAP MOUNTED	NA	FDOT	715-11-125
UD-2	A-3	3118+44 C CONST. I-4	80.5' RT	NA	NA	1	52	15.5'	NA	480	WALL CAP MOUNTED	NA	FDOT	715-11-125
UD-3	A-4	3119+95 C CONST. I-4	91.9' LT	NA	NA	1	52	15.5'	NA	480	WALL CAP MOUNTED	NA	FDOT	715-11-125
UD-4	A-4	3120+16 C CONST. I-4	117.7' LT	NA	NA	1	52	15.5'	NA	480	WALL CAP MOUNTED	NA	FDOT	715-11-125
UD-5	A-3	3119+81 C CONST. I-4	119.6' RT	NA	NA	1	52	15.5'	NA	480	WALL CAP MOUNTED	NA	FDOT	715-11-125
UD-6	A-3	3120+09 C CONST. I-4	85.7' RT	NA	NA	1	52	15.5'	NA	480	WALL CAP MOUNTED	NA	FDOT	715-11-125
UD-7	A-4	3121+53 C CONST. I-4	78.9' LT	NA	NA	1	52	15.5'	NA	480	WALL CAP MOUNTED	NA	FDOT	715-11-125
UD-8	A-4	3121+79 C CONST. I-4	110.3' LT	NA	NA	1	52	15.5'	NA	480	WALL CAP MOUNTED	NA	FDOT	715-11-125

BEOS - FROM BACK EDGE OF SIDEWALK FEOTL - FROM EDGE OF TRAVEL LANE
 FFOC - FROM FRONT FACE OF GUARDRAIL FFOC - FROM FRONT FACE OF CURB

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING DATA TABLE AND LEGEND	SHEET NO. L-9
DATE	DESCRIPTION	DATE	DESCRIPTION	JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	430185-3-52-01		

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BEGIN PROJECT
 STA. 3073+00.00 @ CONST. I-4 =
 STA. 3998+57.07 @ CONST. I-4 EB 1 =
 STA. 1073+09.57 @ SURVEY I-4

STA. 3120+02.82 @ CONST. I-4 =
 STA. 3448+16.21 @ CONST. SR 33

STA. 136+83.39 @ CONST. RAMP A =
 STA. 454+53.64 @ SURVEY SR 33

STA. 399+79.02 @ CONST. RAMP D =
 STA. 453+58.43 @ SURVEY SR 33

BEGIN LIGHTING
 STA. 3076+15 @ CONST. I-4

BEGIN CONSTRUCTION
 STA. 952+00.00 @ SURVEY I-4

STA. 228+02.44 @ CONST. RAMP B =
 STA. 442+41.58 @ SURVEY SR 33

STA. 303+04.57 @ CONST. RAMP C =
 STA. 441+52.01 @ SURVEY SR 33

STA. 3419+03.72 @ CONST. SR 33 =
 STA. 50+52.15 @ UNIVERSITY BLVD.

BEGIN RECONSTRUCTION SR 33
 MATCH FPID 430185-4-52-01
 STA. 3399+74.08 @ CONST. SR 33
 STA. 399+46.72 (27.75' LT) @ SURVEY SR 33

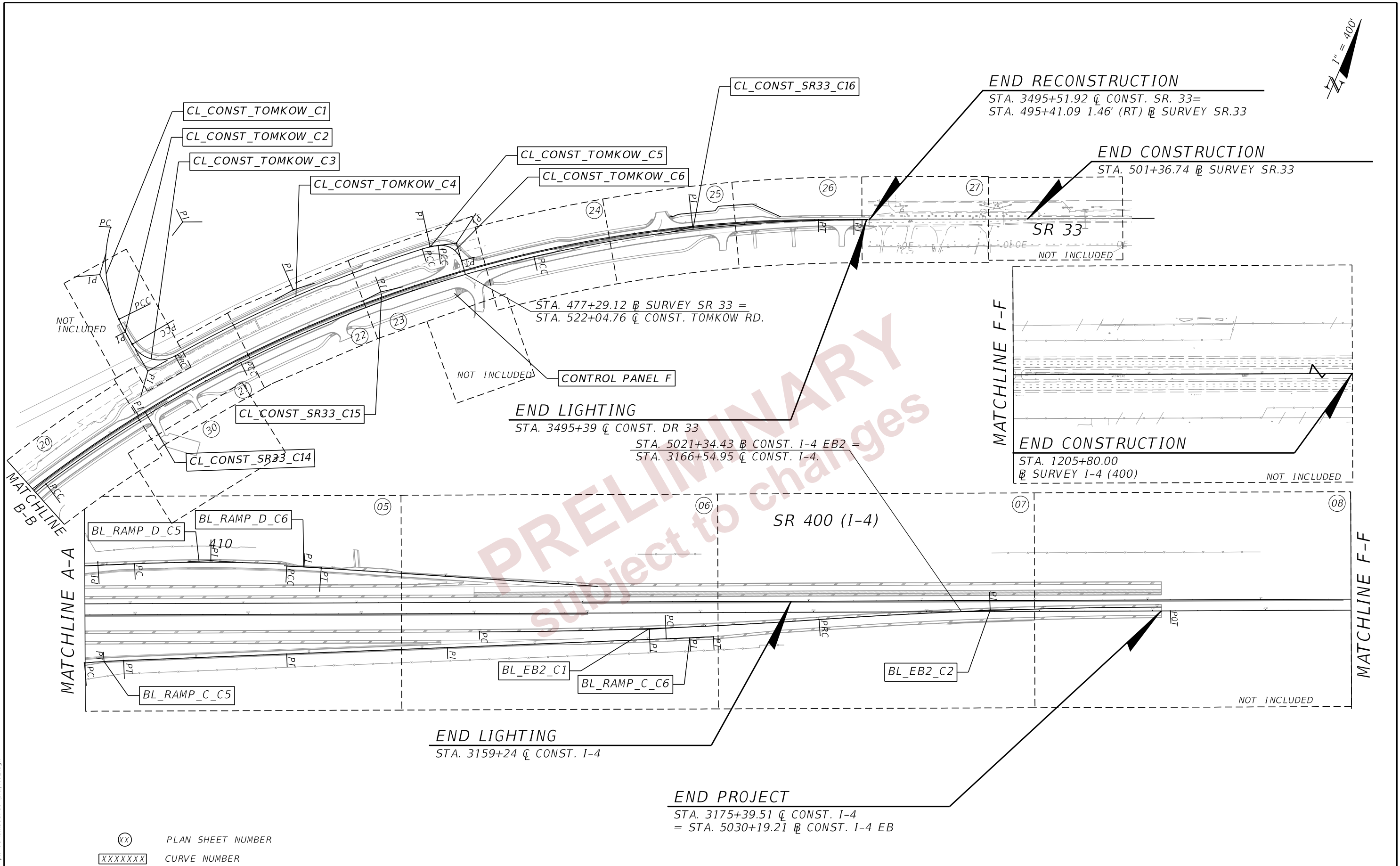
BEGIN LIGHTING
 STA. 3400+44 @ CONST. SR 33

(XX) PLAN SHEET NUMBER
 XXXXXXX CURVE NUMBER

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REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
			JAMIE P. HEUER, P.E. LICENSE NUMBER: 67493 H.W. LOCHNER, INC. 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FL 33607	SR 400	POLK	430185-3-52-01	PROJECT LAYOUT (1) L-10

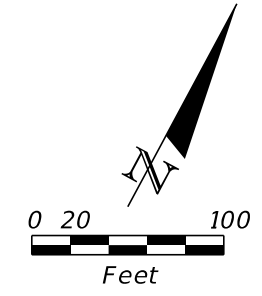


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⊗ PLAN SHEET NUMBER
 XXXXXXX CURVE NUMBER

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JAMIE P. HEUER, P.E. LICENSE NUMBER: 67493 H.W. LOCHNER, INC. 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FL 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 400	POLK	430185-3-52-01	PROJECT LAYOUT (2) L-11

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BEGIN PROJECT
 BEGIN MILLING, RESURFACING, OVERBUILD AND WIDENING SR 400 (I-4) WB
 BEGIN RECONSTRUCTION SR 400 (I-4) EB
 STA. 3073+00.00 \bar{C} CONST. I-4 =
 STA. 3998+57.07 \bar{B} CONST. I-4 EB 1 =
 STA. 1073+09.57 \bar{B} SURVEY I-4

BEGIN LIGHTING
 STA. 3076+15 \bar{C} CONST. I-4

BEGIN \bar{B} CONST. I-4 EB 1 PC STA. 3997+56.91 =
 STA. 3072+00.83 (17.43' LT.) \bar{C} CONST. I-4 =
 STA. 1072+09.97 (32.03' RT.) \bar{B} SURVEY I-4

PCC STA. 4000+00.00 =
 STA. 3074+42.71 (17.48' LT.) \bar{C} CONST. I-4 =
 STA. 1074+52.90 (31.96' RT.) \bar{B} SURVEY I-4

(2) CKT. A-9: 2 #4, 1#4 GRD.

POLE RA6, CKT. A-9
 STA. 3085+45
 \bar{C} CONST. I-4, 154.5' LT

POLE RA5, CKT. A-9
 STA. 3083+75
 \bar{C} CONST. I-4, 151.1' LT

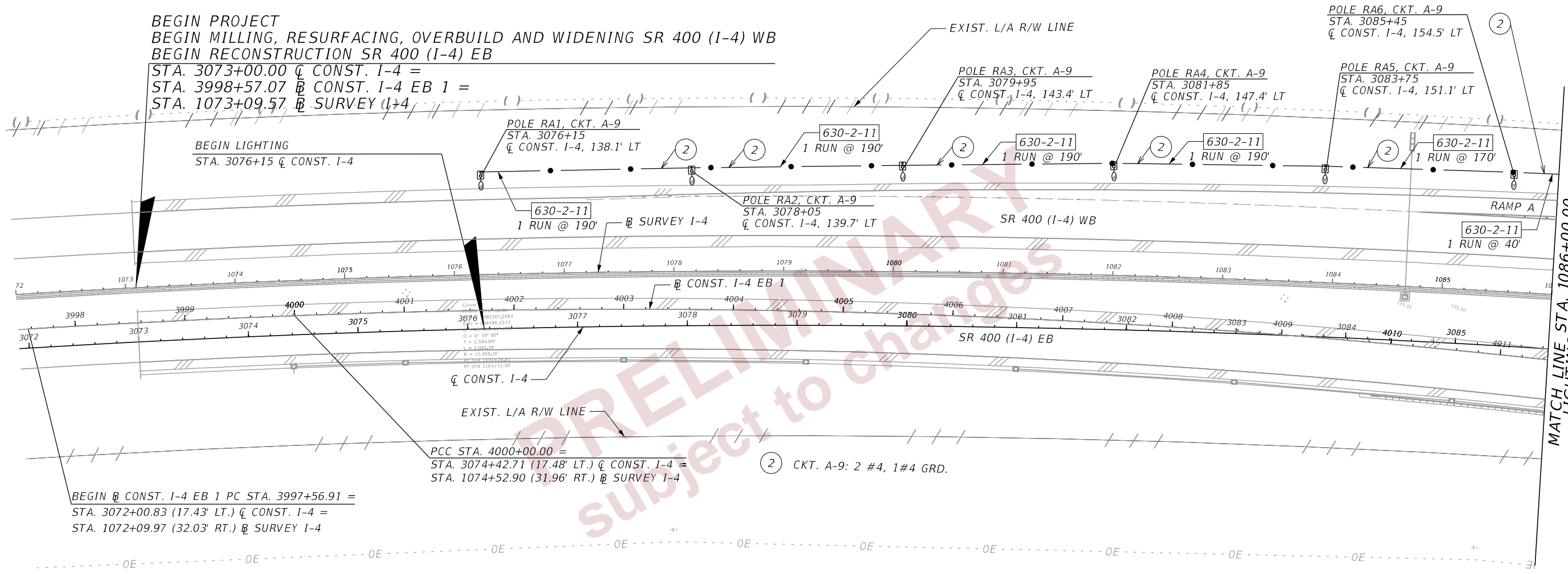
POLE RA4, CKT. A-9
 STA. 3081+85
 \bar{C} CONST. I-4, 147.4' LT

POLE RA3, CKT. A-9
 STA. 3079+95
 \bar{C} CONST. I-4, 143.4' LT

POLE RA1, CKT. A-9
 STA. 3076+15
 \bar{C} CONST. I-4, 138.1' LT

POLE RA2, CKT. A-9
 STA. 3078+05
 \bar{C} CONST. I-4, 139.7' LT

RAMP A
 (630-2-11)
 1 RUN @ 40'



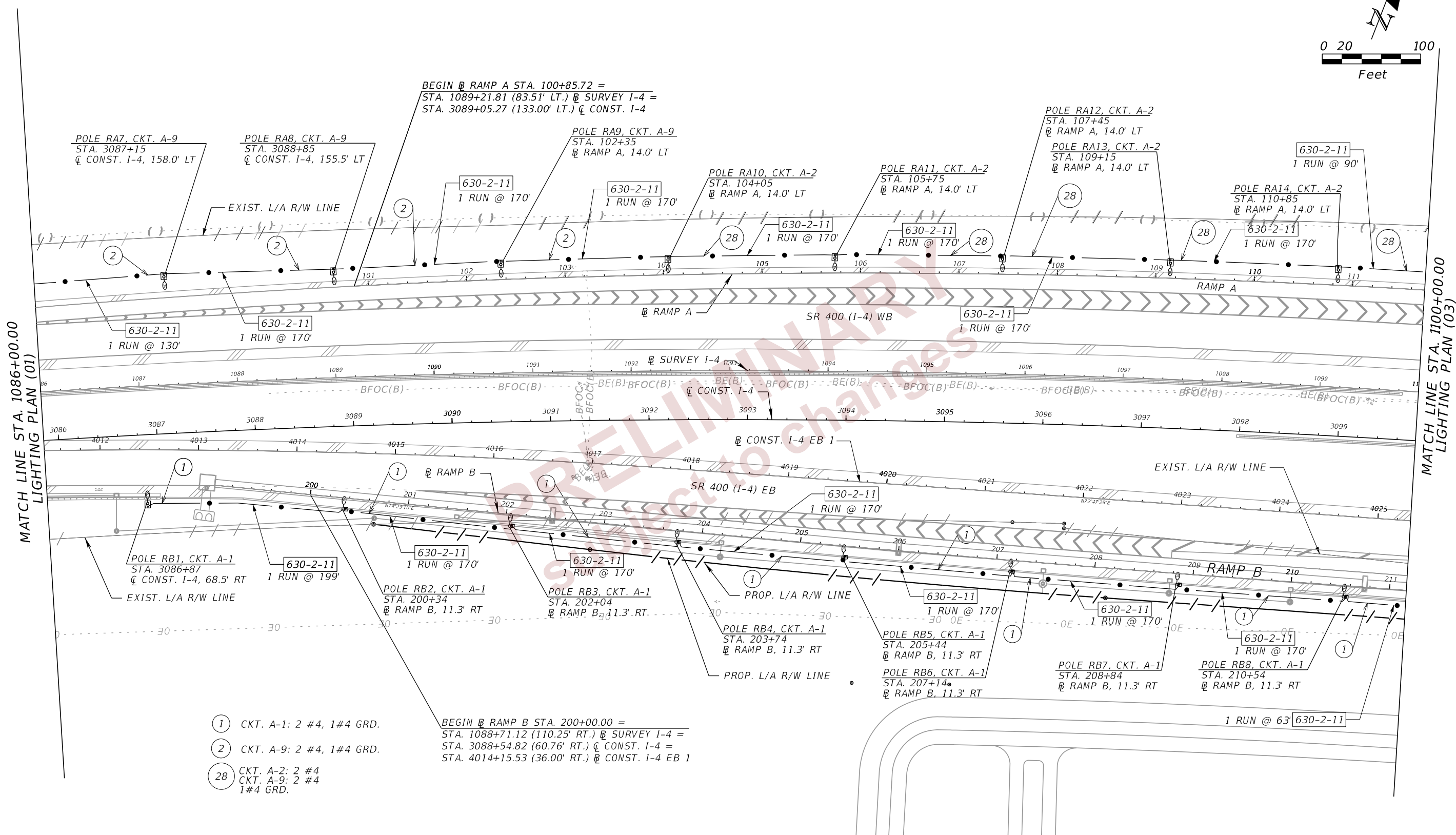
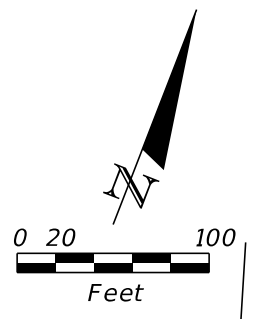
MATCH LINE STA. 1086+00.00
 LIGHTING PLAN (02)

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REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
							SR 400	POLK	430185-3-52-01	L-12

LIGHTING PLAN (01)



- ① CKT. A-1: 2 #4, 1#4 GRD.
- ② CKT. A-9: 2 #4, 1#4 GRD.
- 28 CKT. A-2: 2 #4
CKT. A-9: 2 #4
1#4 GRD.

BEGIN RAMP A STA. 100+85.72 =
 STA. 1089+21.81 (83.51' LT.) @ SURVEY I-4 =
 STA. 3089+05.27 (133.00' LT.) @ CONST. I-4

BEGIN RAMP B STA. 200+00.00 =
 STA. 1088+71.12 (110.25' RT.) @ SURVEY I-4 =
 STA. 3088+54.82 (60.76' RT.) @ CONST. I-4 =
 STA. 4014+15.53 (36.00' RT.) @ CONST. I-4 EB 1

MATCH LINE STA. 1086+00.00
LIGHTING PLAN (01)

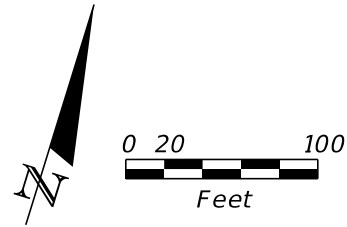
MATCH LINE STA. 1100+00.00
LIGHTING PLAN (03)

2/29/2024 10:40:03 AM BMILLER
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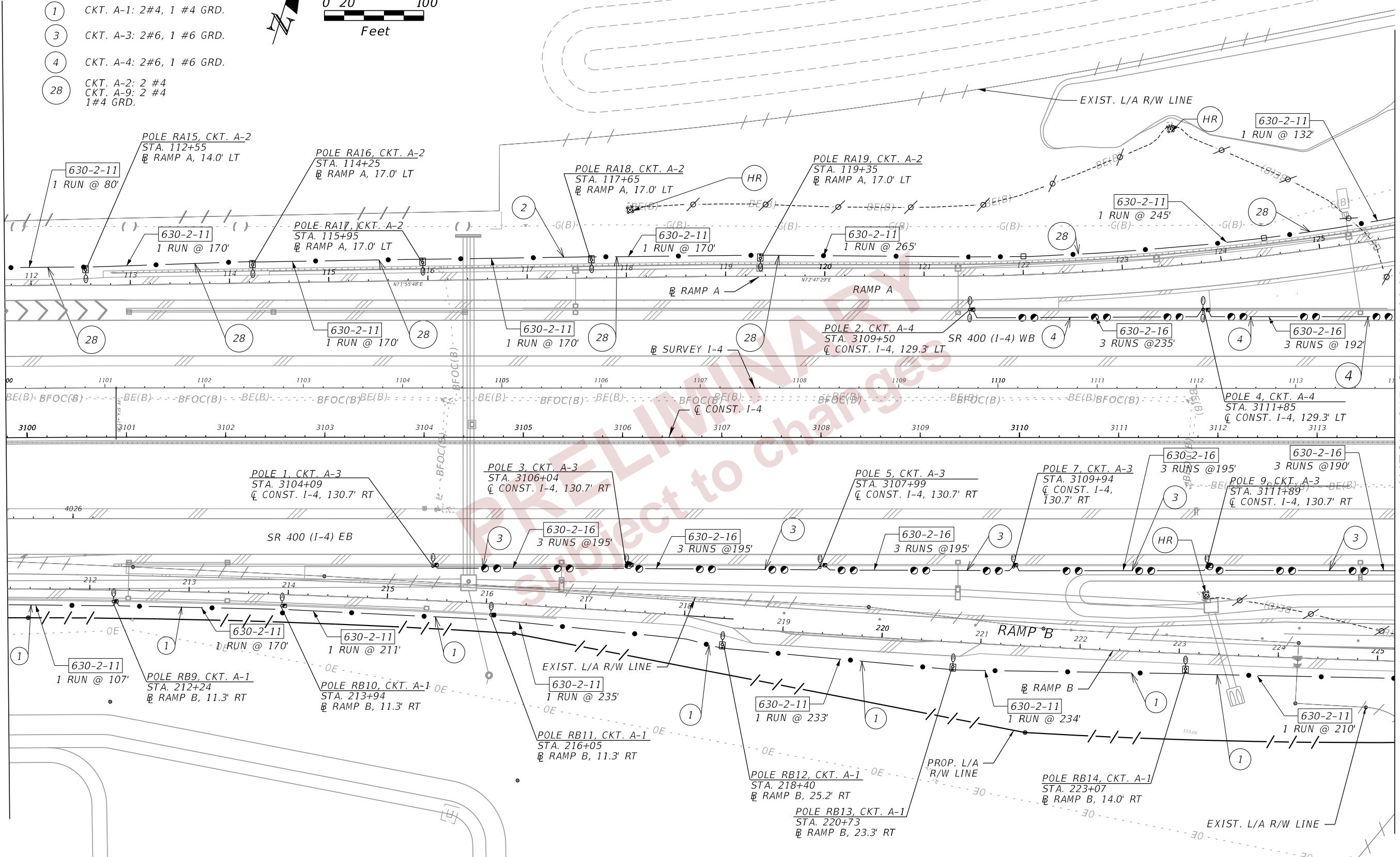
REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (02)	SHEET NO. L-13
DATE	DESCRIPTION	DATE	DESCRIPTION	JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	430185-3-52-01		

- (HR) HIGH MAST TO BE REMOVED
- (1) CKT. A-1: 2#4, 1 #4 GRD.
- (3) CKT. A-3: 2#6, 1 #6 GRD.
- (4) CKT. A-4: 2#6, 1 #6 GRD.
- (28) CKT. A-2: 2 #4
CKT. A-9: 2 #4
1#4 GRD.



MATCH LINE STA. 1100+00.00
LIGHTING PLAN (02)

MATCH LINE STA. 1114+00.00
LIGHTING PLAN (04)

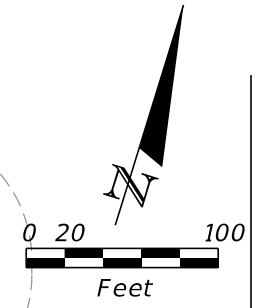


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REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607	SR 400	POLK	430185-3-52-01
LIGHTING PLAN (03)							L-14

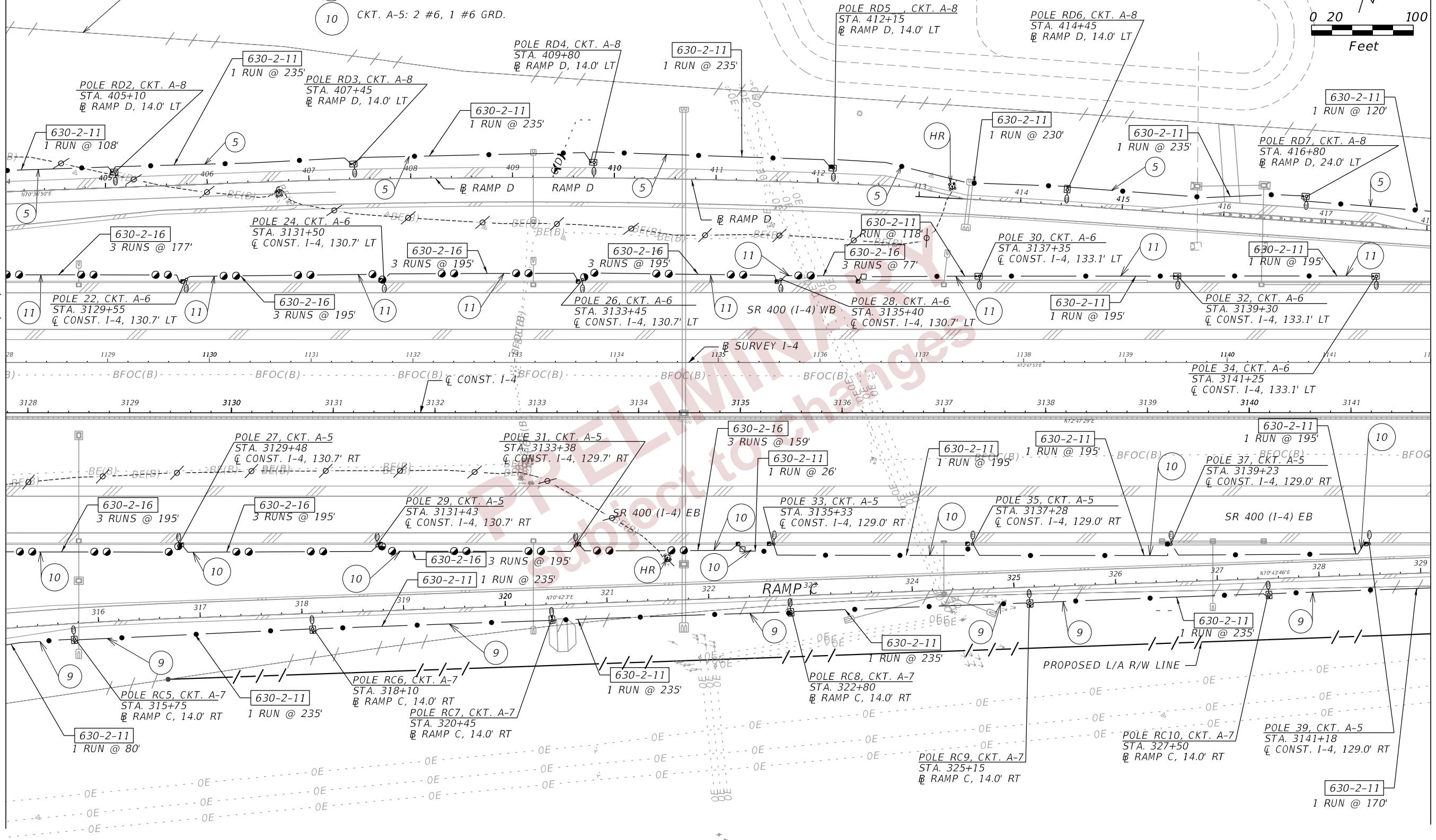
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

- (HR) HIGH MAST TO BE REMOVED
- (5) CKT. A-8: 2 #4, 1 #4 GRD.
- (9) CKT. A-7: 2 #2, 1 #2 GRD.
- (10) CKT. A-5: 2 #6, 1 #6 GRD.
- (11) CKT. A-6: 2 #6, 1 #6 GRD.



MATCH LINE STA. 1128+00.00 LIGHTING PLAN (04)

MATCH LINE STA. 1142+00.00 LIGHTING PLAN (06)



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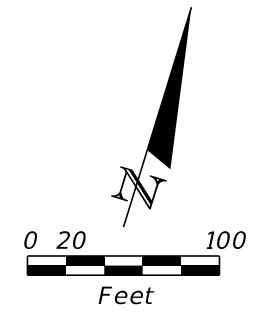
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 400	POLK	430185-3-52-01	

LIGHTING PLAN (05)

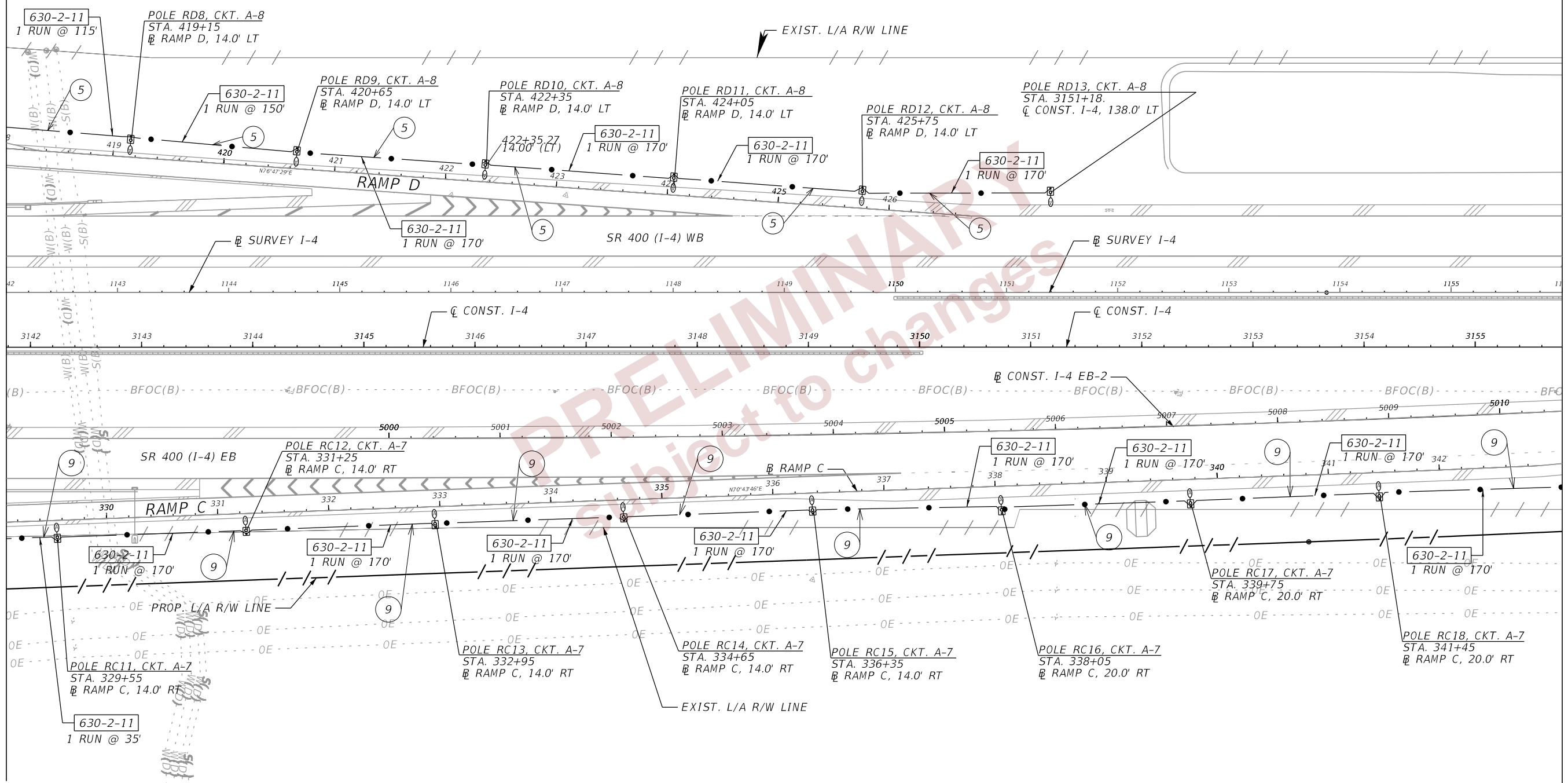
L-16

- 5 CKT. A-8: 2 #4, 1 #4 GRD.
- 9 CKT. A-7: 2 #2, 1 #2 GRD.



MATCH LINE STA. 1142+00.00
LIGHTING PLAN (O5)

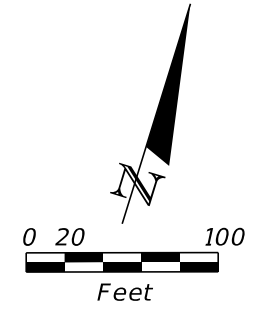
MATCH LINE STA. 1156+00.00
LIGHTING PLAN (O7)



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REVISIONS		REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (06)	SHEET NO.	
DATE	DESCRIPTION	DATE	DESCRIPTION	JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-17	
								SR 400			POLK



9 CKT. A-7: 2 #2, 1 #2 GRD.

EXIST. L/A R/W LINE

END LIGHTING
STA. 3159+24
Q CONST. I-4

MATCH LINE STA. 1156+00.00
LIGHTING PLAN (06)

SR 400 (I-4) WB

SR 400 (I-4) EB

EXISTING L/A R/W LINE

EXIST. L/A R/W LINE

POLE RC19, CKT. A-7
STA. 3155+84
Q CONST. I-4, 124.3' RT

POLE RC20, CKT. A-7
STA. 3157+54
Q CONST. I-4, 108.6' RT

POLE RC21, CKT. A-7
STA. 3159+24
Q CONST. I-4, 94.8' RT

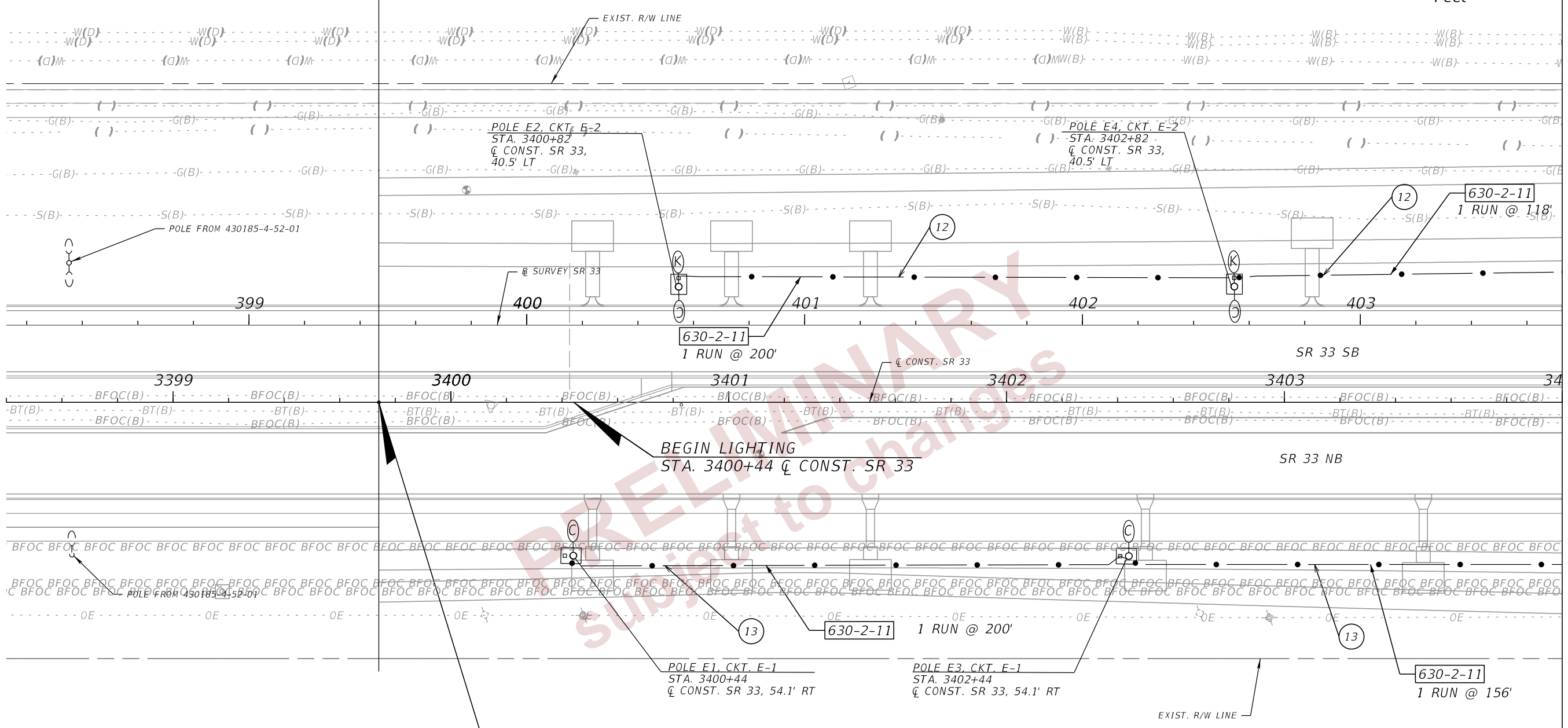
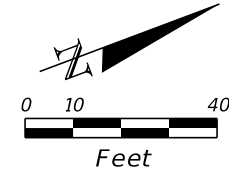
630-2-11
1 RUN @ 170'

630-2-11
1 RUN @ 170'

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REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (07)	SHEET NO. L-18
DATE	DESCRIPTION	DATE	DESCRIPTION				ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607			SR 400	POLK	430185-3-52-01		



MATCH LINE STA. 3404+00.00
LIGHTING PLAN (10)

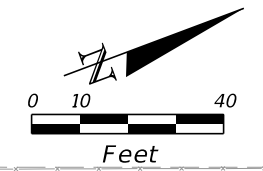
BEGIN RECONSTRUCTION SR 33
MATCH FPID 430185-4-52-01
STA. 3399+74.08 \bar{C} SURVEY SR 33
STA. 399+46.72 \bar{B} SURVEY SR 33

- (12) CKT. E-2: 2 #4, 1 #4 GRD.
- (13) CKT. E-1: 2 #6, 1 #6 GRD.

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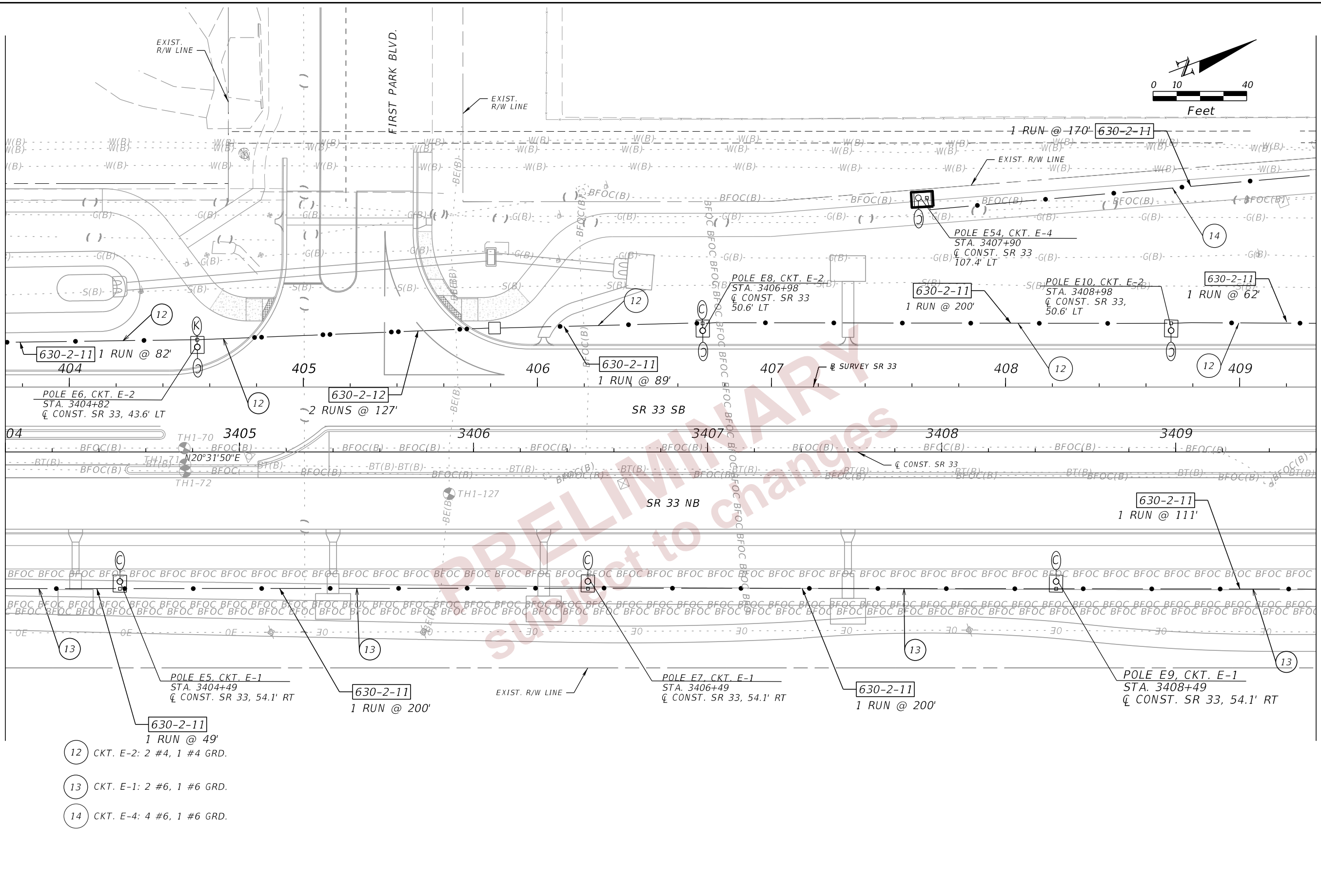
REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		SR 33	POLK	430185-3-52-01	
LIGHTING PLAN (09)									L-19

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MATCH LINE STA. 3404+00.00
LIGHTING PLAN (09)

MATCH LINE STA. 3409+60.00
LIGHTING PLAN (11)



- 12 CKT. E-2: 2 #4, 1 #4 GRD.
- 13 CKT. E-1: 2 #6, 1 #6 GRD.
- 14 CKT. E-4: 4 #6, 1 #6 GRD.

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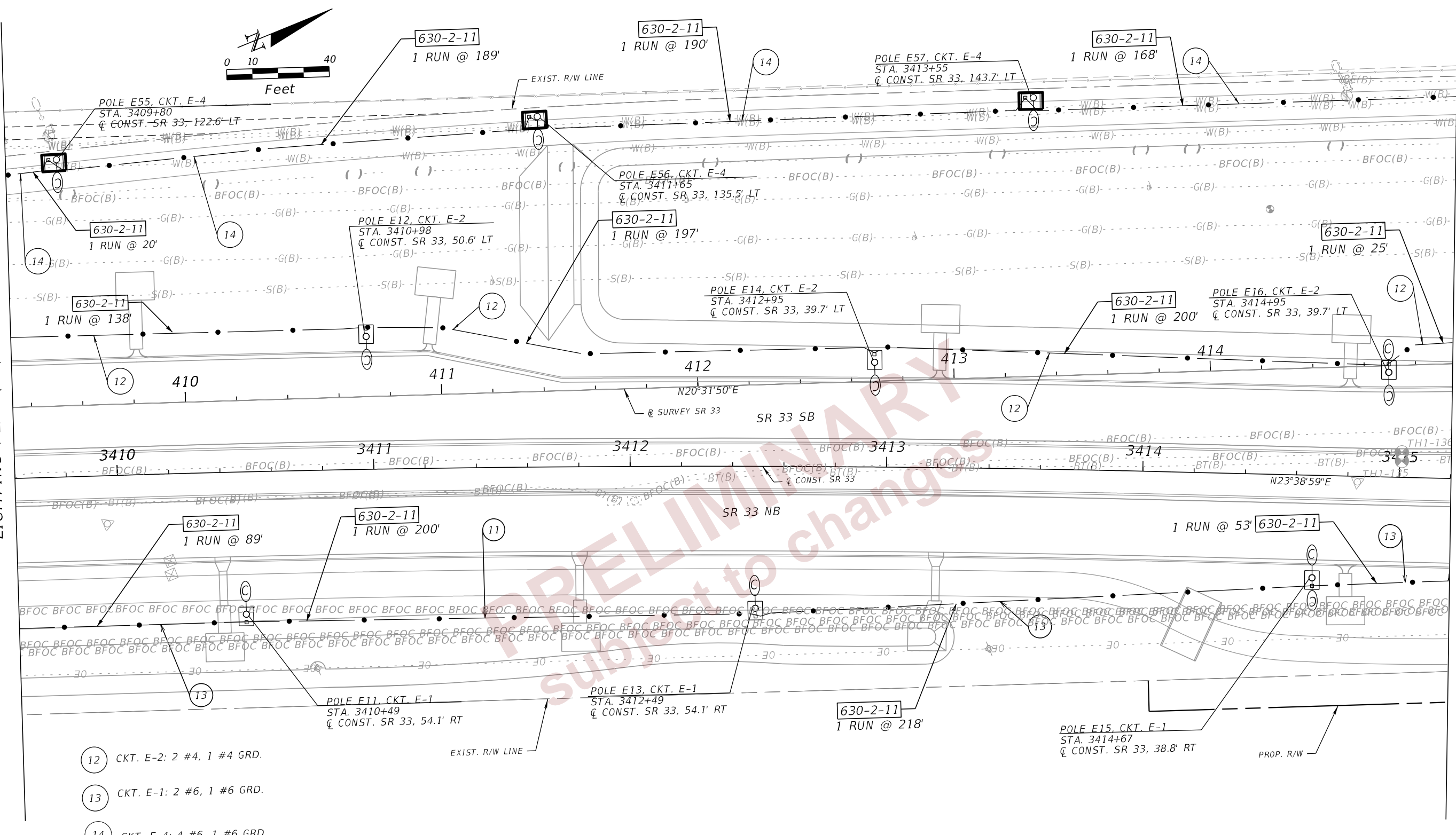
REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		SR 33	POLK	430185-3-52-01	L-20

LIGHTING PLAN (10)

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MATCH LINE STA. 3409+60.00
 LIGHTING PLAN (10)

MATCH LINE STA. 3415+20.00
 LIGHTING PLAN (12)



- 12 CKT. E-2: 2 #4, 1 #4 GRD.
- 13 CKT. E-1: 2 #6, 1 #6 GRD.
- 14 CKT. E-4: 4 #6, 1 #6 GRD.

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 33	POLK	430185-3-52-01	

LIGHTING PLAN (11)

L-21

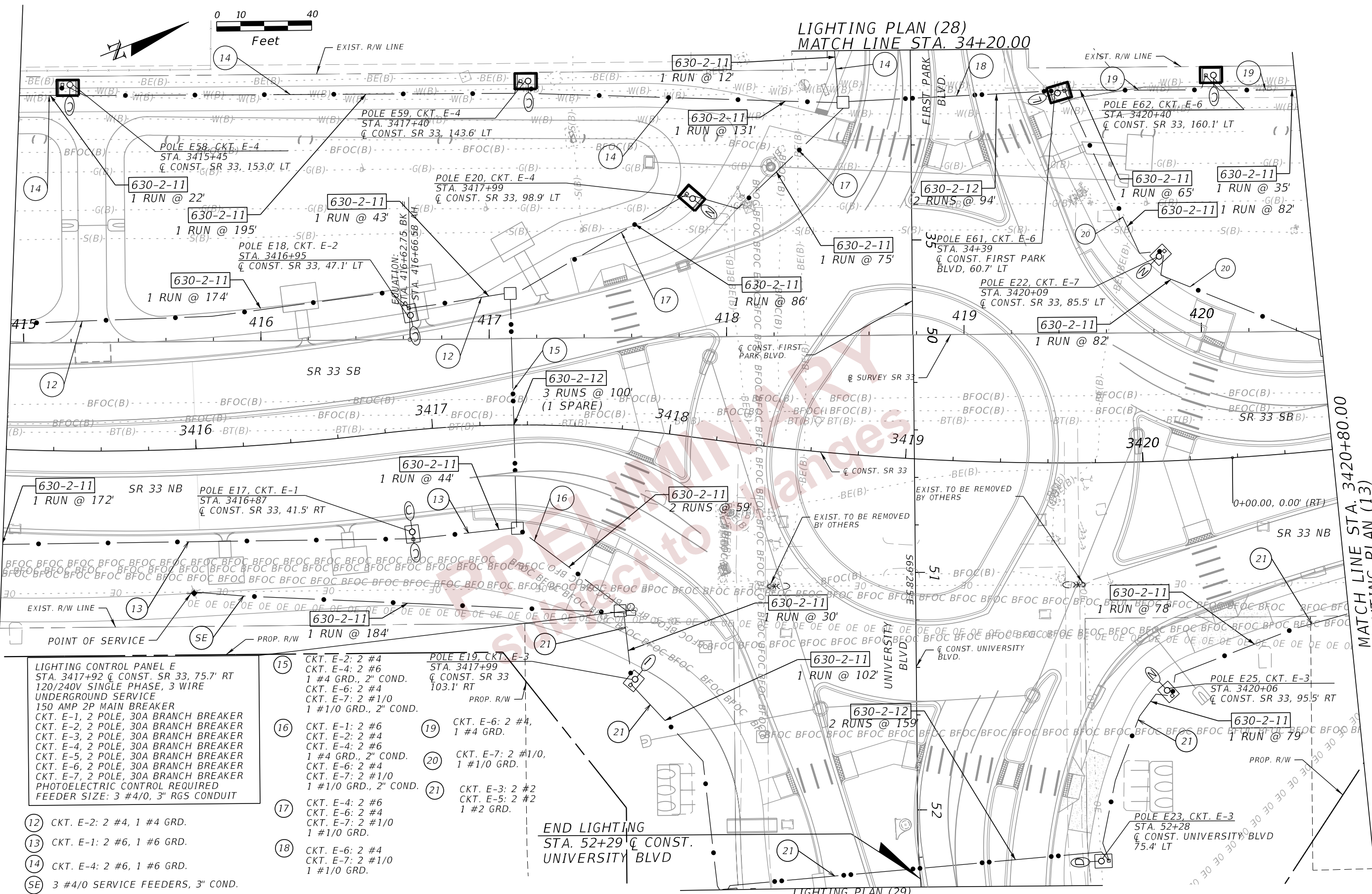
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MATCH LINE STA. 3415+20.00
 LIGHTING PLAN (11)

LIGHTING PLAN (28)
 MATCH LINE STA. 34+20.00

MATCH LINE STA. 3420+80.00
 LIGHTING PLAN (13)



LIGHTING CONTROL PANEL E
 STA. 3417+92 Q CONST. SR 33, 75.7' RT
 120/240V SINGLE PHASE, 3 WIRE
 UNDERGROUND SERVICE
 150 AMP 2P MAIN BREAKER
 CKT. E-1, 2 POLE, 30A BRANCH BREAKER
 CKT. E-2, 2 POLE, 30A BRANCH BREAKER
 CKT. E-3, 2 POLE, 30A BRANCH BREAKER
 CKT. E-4, 2 POLE, 30A BRANCH BREAKER
 CKT. E-5, 2 POLE, 30A BRANCH BREAKER
 CKT. E-6, 2 POLE, 30A BRANCH BREAKER
 CKT. E-7, 2 POLE, 30A BRANCH BREAKER
 PHOTOELECTRIC CONTROL REQUIRED
 FEEDER SIZE: 3 #4/0, 3" RGS CONDUIT

- 12 CKT. E-2: 2 #4, 1 #4 GRD.
- 13 CKT. E-1: 2 #6, 1 #6 GRD.
- 14 CKT. E-4: 2 #6, 1 #6 GRD.
- SE 3 #4/0 SERVICE FEEDERS, 3" COND.
- 15 CKT. E-2: 2 #4
 CKT. E-4: 2 #6
 1 #4 GRD., 2" COND.
 CKT. E-6: 2 #4
 CKT. E-7: 2 #1/0
 1 #1/0 GRD., 2" COND.
- 16 CKT. E-1: 2 #6
 CKT. E-2: 2 #4
 CKT. E-4: 2 #6
 1 #4 GRD., 2" COND.
 CKT. E-6: 2 #4
 CKT. E-7: 2 #1/0
 1 #1/0 GRD., 2" COND.
- 17 CKT. E-4: 2 #6
 CKT. E-6: 2 #4
 CKT. E-7: 2 #1/0
 1 #1/0 GRD.
- 18 CKT. E-6: 2 #4
 CKT. E-7: 2 #1/0
 1 #1/0 GRD.
- 19 CKT. E-6: 2 #4,
 1 #4 GRD.
- 20 CKT. E-7: 2 #1/0,
 1 #1/0 GRD.
- 21 CKT. E-3: 2 #2
 CKT. E-5: 2 #2
 1 #2 GRD.

END LIGHTING
 STA. 52+29 Q CONST.
 UNIVERSITY BLVD

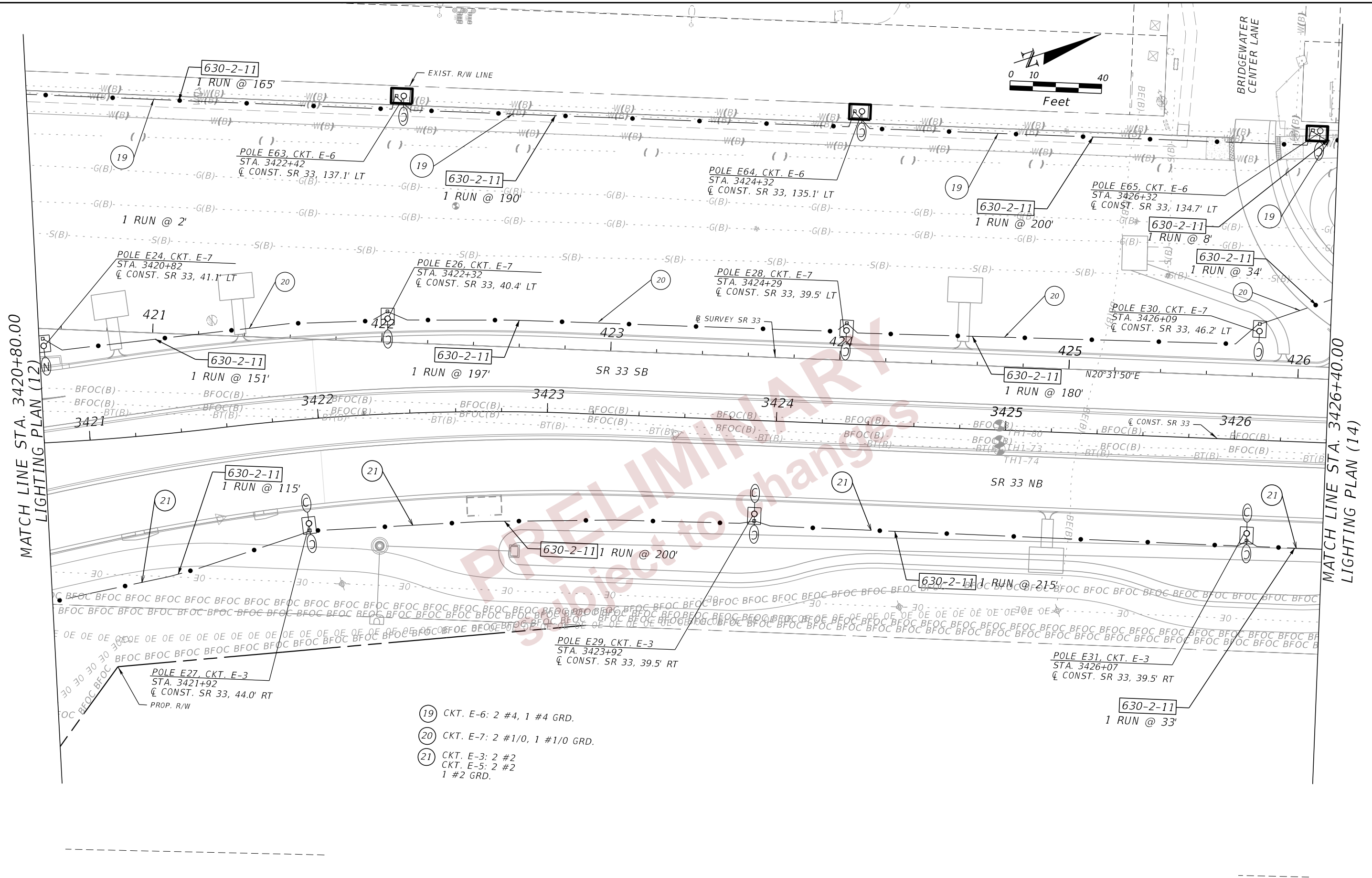
LIGHTING PLAN (29)
 MATCH LINE STA. 52+32.54

REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
			JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607	SR 33	POLK	430185-3-52-01	L-22

LIGHTING PLAN (12)

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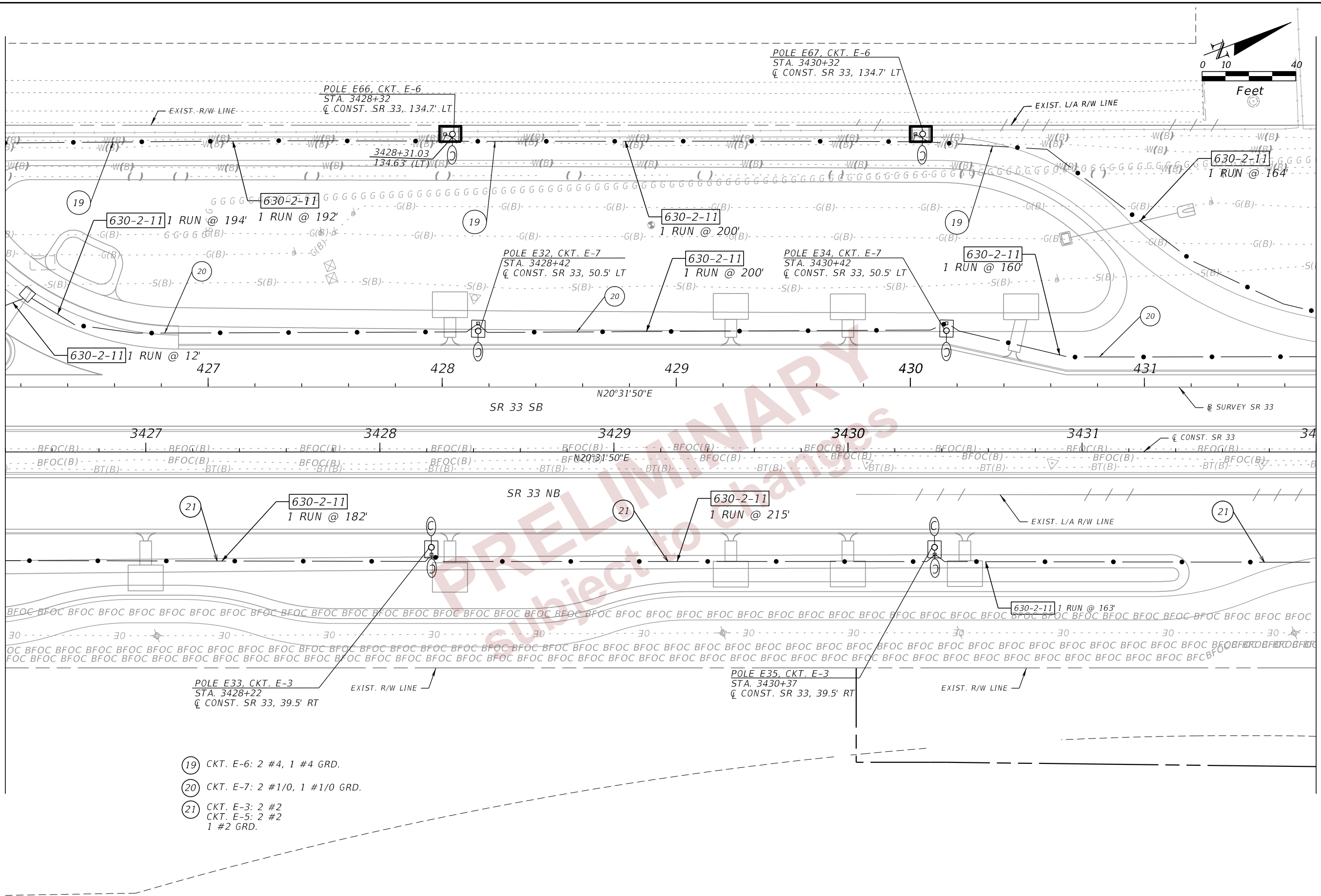
REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607			SR 33	POLK	430185-3-52-01	
LIGHTING PLAN (13)										L-23

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MATCH LINE STA. 3426+40.00
 LIGHTING PLAN (13)

MATCH LINE STA. 3432+00.00
 LIGHTING PLAN (15)



- ①9 CKT. E-6: 2 #4, 1 #4 GRD.
- ②0 CKT. E-7: 2 #1/0, 1 #1/0 GRD.
- ②1 CKT. E-3: 2 #2
 CKT. E-5: 2 #2
 1 #2 GRD.

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 33	POLK	430185-3-52-01	

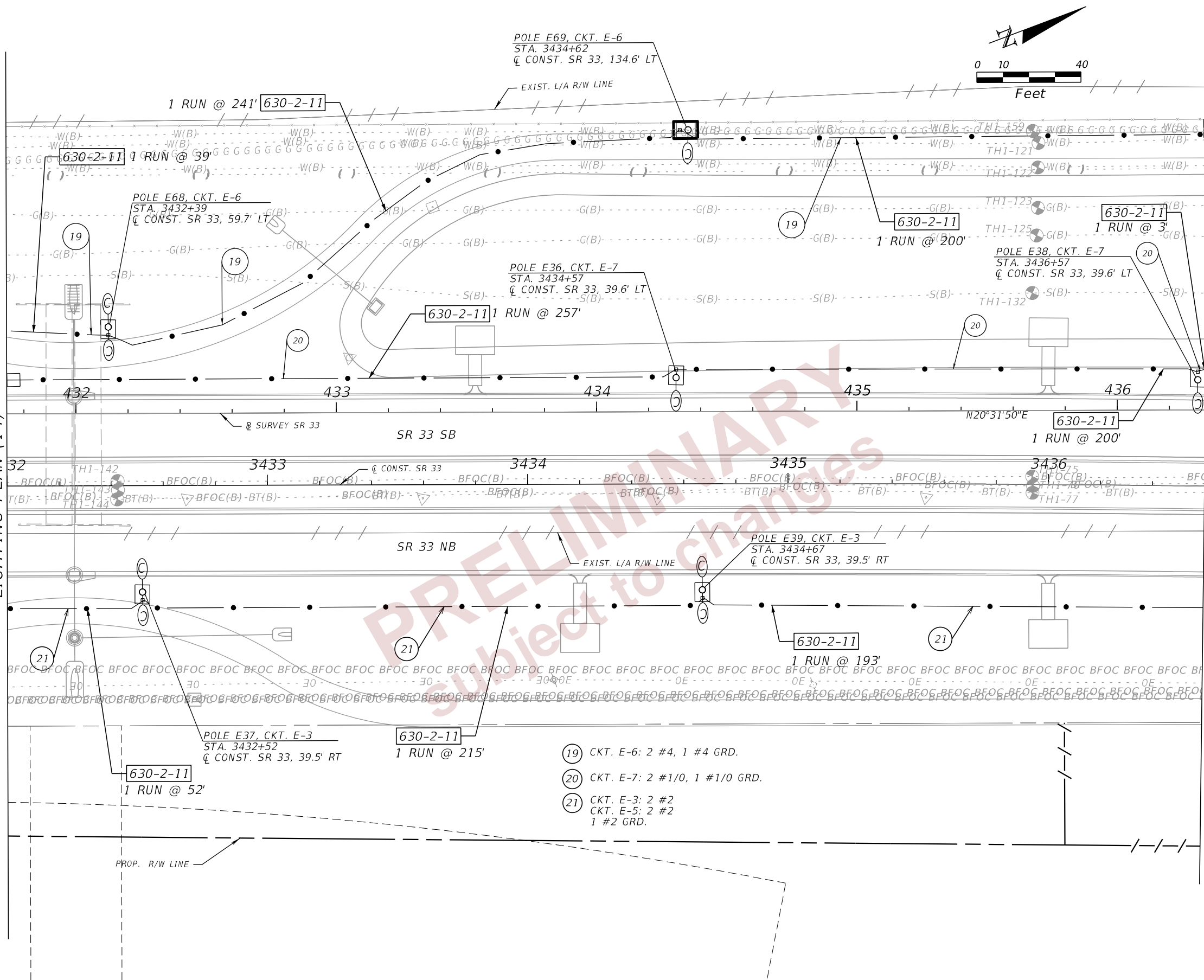
LIGHTING PLAN (14)

L-24

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MATCH LINE STA. 3432+00.00
 LIGHTING PLAN (14)



MATCH LINE STA. 3436+60.00
 LIGHTING PLAN (16)

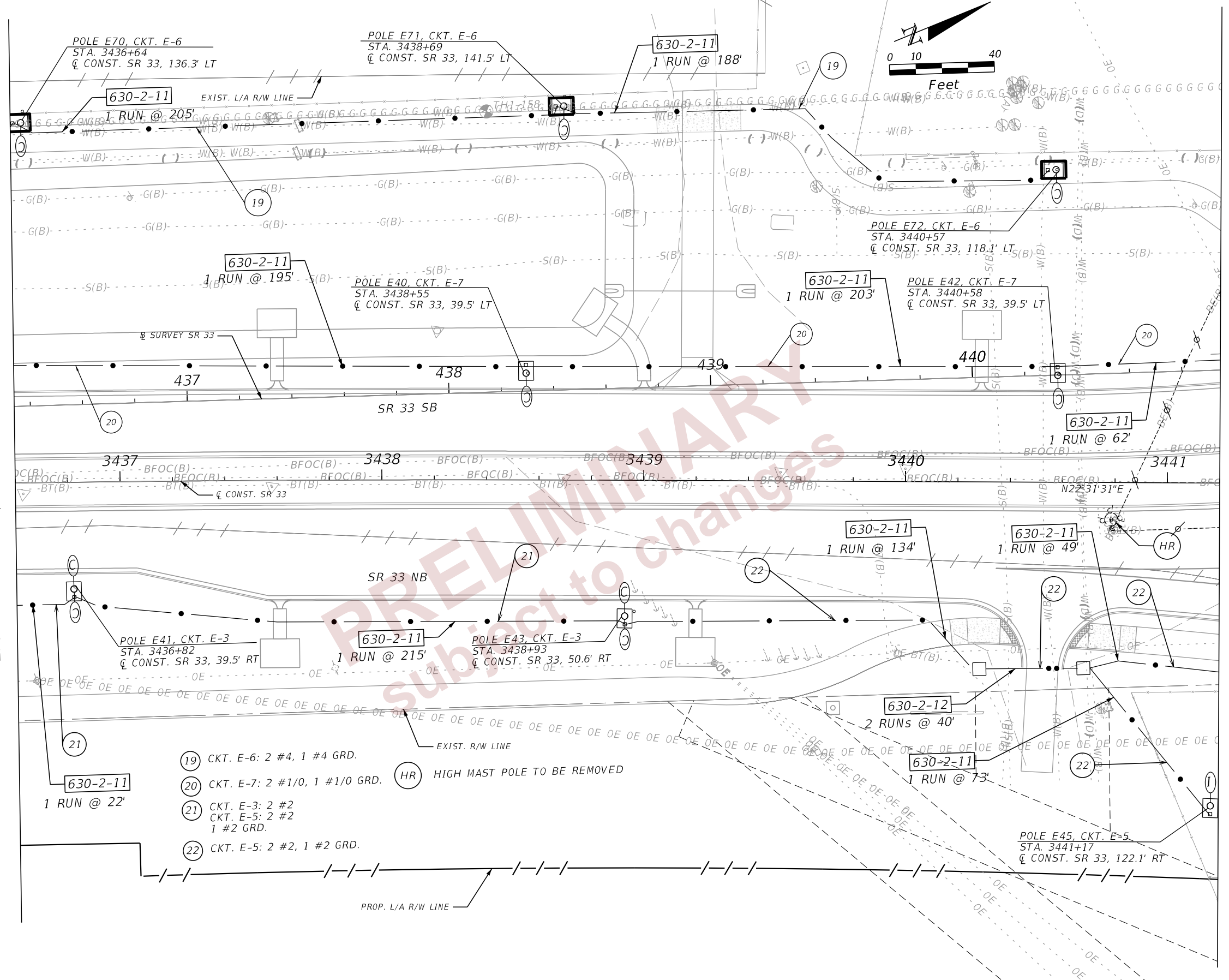
REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 33	POLK	430185-3-52-01	LIGHTING PLAN (15)	
								L-25	

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MATCH LINE STA. 3436+60.00
 LIGHTING PLAN (15)

MATCH LINE STA. 3441+20.00
 LIGHTING PLAN (17)

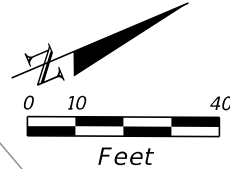
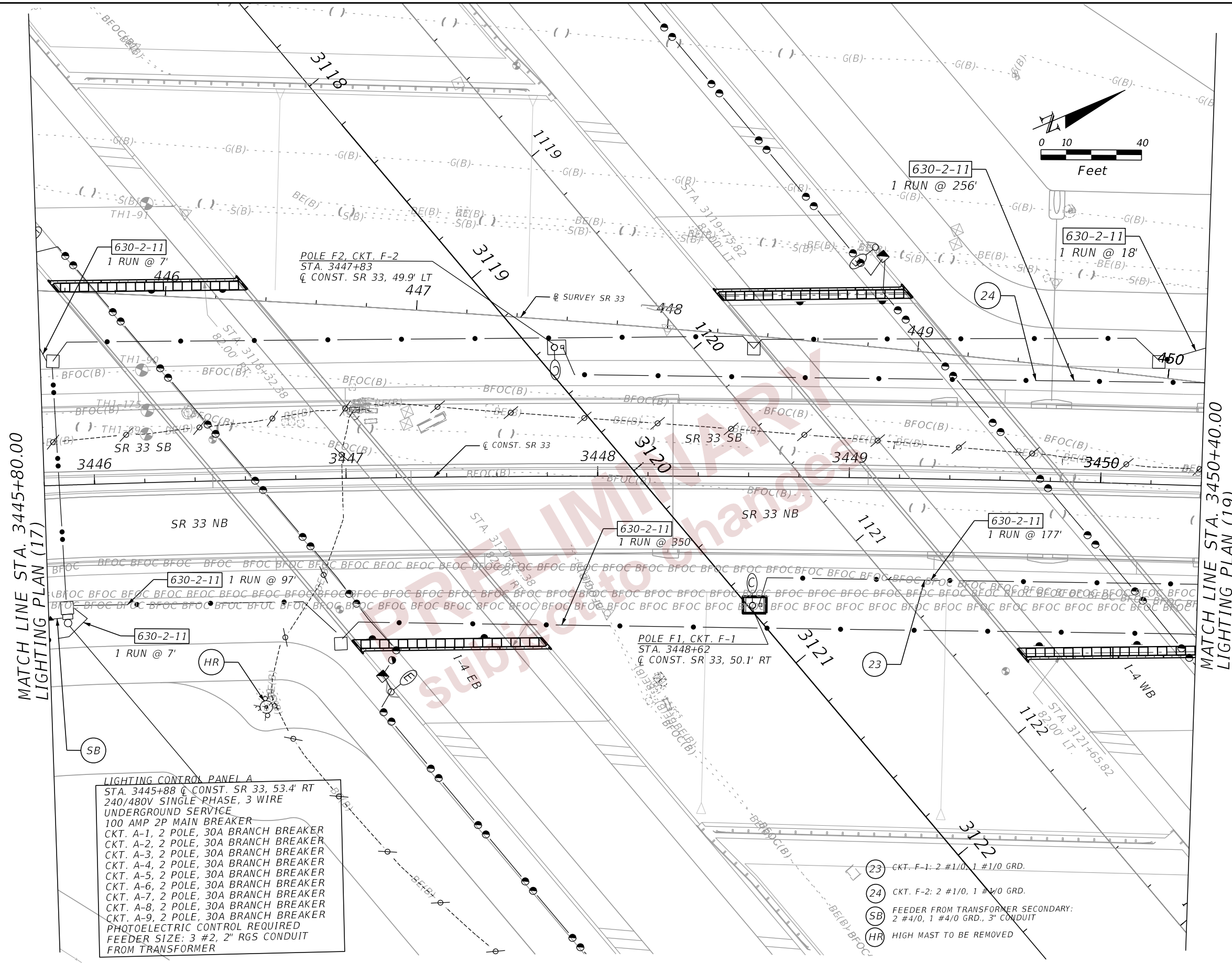


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 Subject to changes

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REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607	SR 33	POLK	430185-3-52-01
LIGHTING PLAN (16)							L-26

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MATCH LINE STA. 3445+80.00
LIGHTING PLAN (17)

MATCH LINE STA. 3450+40.00
LIGHTING PLAN (19)

LIGHTING CONTROL PANEL A
 STA. 3445+88 Q CONST. SR 33, 53.4' RT
 240/480V SINGLE PHASE, 3 WIRE
 UNDERGROUND SERVICE
 100 AMP 2P MAIN BREAKER
 CKT. A-1, 2 POLE, 30A BRANCH BREAKER
 CKT. A-2, 2 POLE, 30A BRANCH BREAKER
 CKT. A-3, 2 POLE, 30A BRANCH BREAKER
 CKT. A-4, 2 POLE, 30A BRANCH BREAKER
 CKT. A-5, 2 POLE, 30A BRANCH BREAKER
 CKT. A-6, 2 POLE, 30A BRANCH BREAKER
 CKT. A-7, 2 POLE, 30A BRANCH BREAKER
 CKT. A-8, 2 POLE, 30A BRANCH BREAKER
 CKT. A-9, 2 POLE, 30A BRANCH BREAKER
 PHOTOELECTRIC CONTROL REQUIRED
 FEEDER SIZE: 3 #2, 2" RGS CONDUIT
 FROM TRANSFORMER

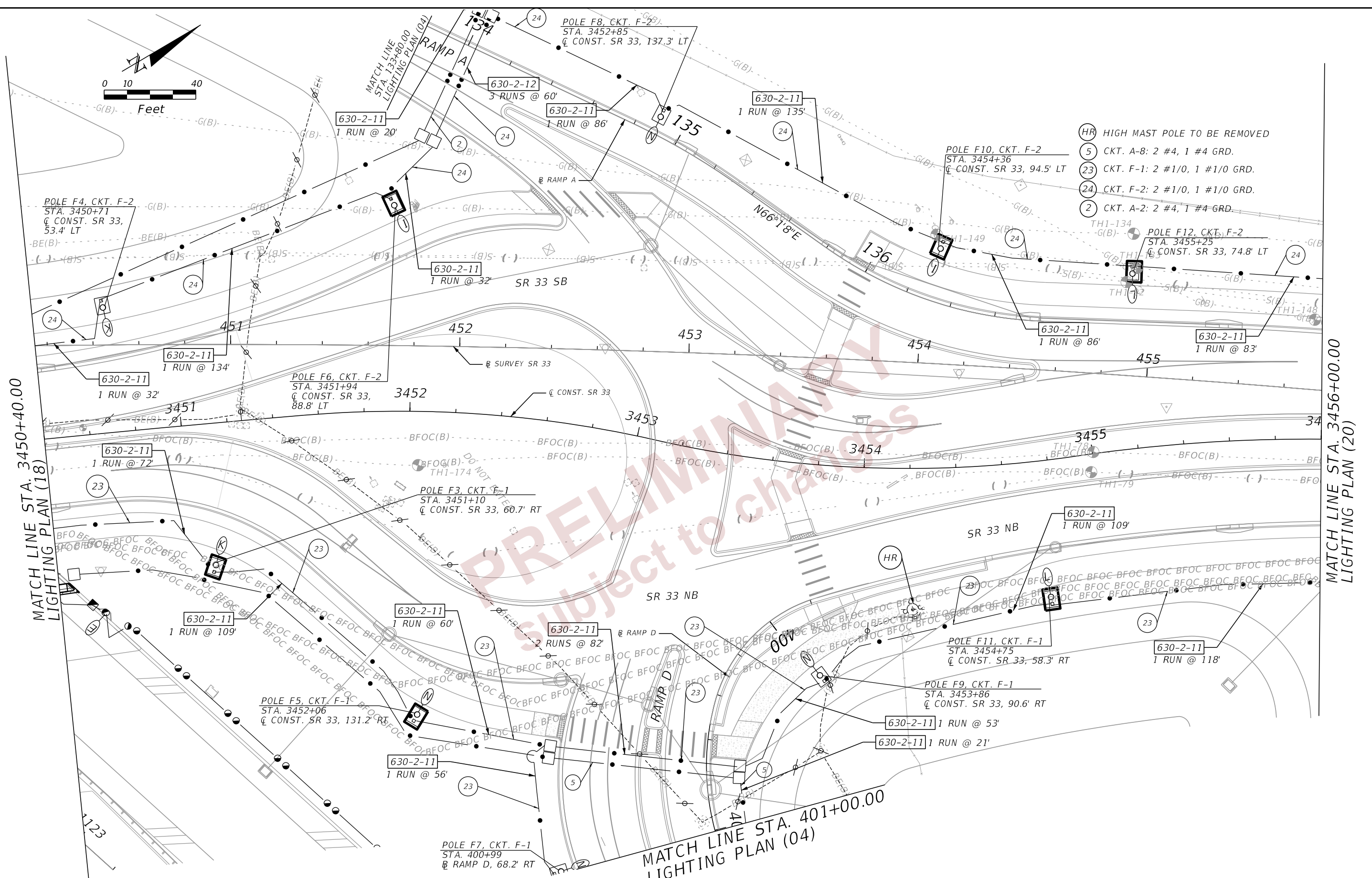
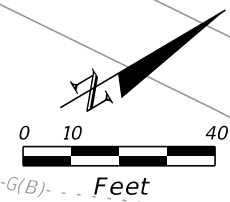
- (23) CKT. F-1: 2 #1/0, 1 #1/0 GRD.
- (24) CKT. F-2: 2 #1/0, 1 #1/0 GRD.
- (SB) FEEDER FROM TRANSFORMER SECONDARY:
2 #4/0, 1 #4/0 GRD., 3" CONDUIT
- (HR) HIGH MAST TO BE REMOVED

REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 33	POLK	430185-3-52-01	

LIGHTING PLAN (18)

L-28

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- (HR) HIGH MAST POLE TO BE REMOVED
- (5) CKT. A-8: 2 #4, 1 #4 GRD.
- (23) CKT. F-1: 2 #1/0, 1 #1/0 GRD.
- (24) CKT. F-2: 2 #1/0, 1 #1/0 GRD.
- (2) CKT. A-2: 2 #4, 1 #4 GRD.

MATCH LINE STA. 3450+40.00
LIGHTING PLAN (18)

MATCH LINE STA. 3456+00.00
LIGHTING PLAN (20)

MATCH LINE STA. 401+00.00
LIGHTING PLAN (04)

PRELIMINARY
Subject to changes

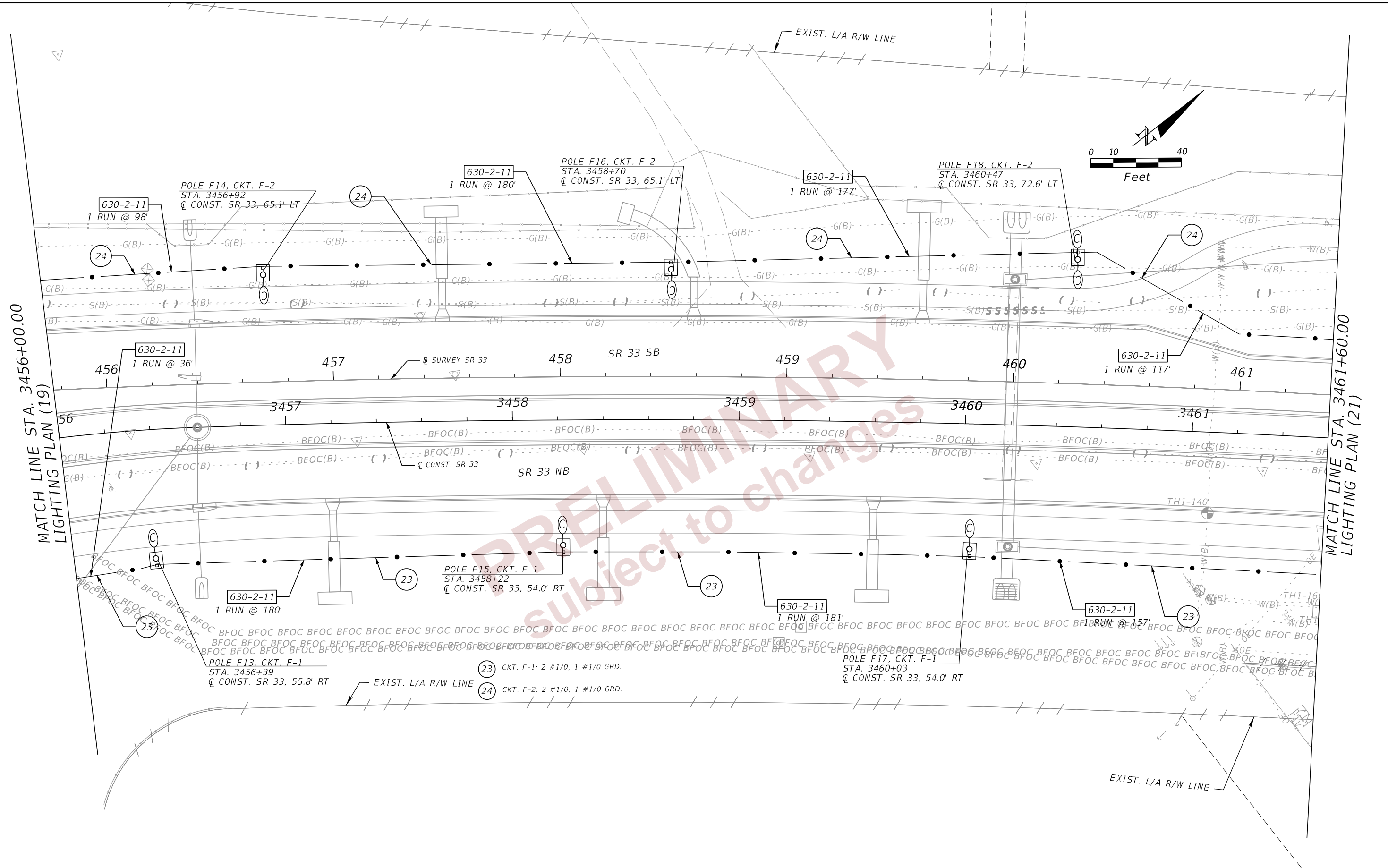
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c:\pw_working\lochner-pw-01\dms18802\PLANRD01.dgn

REVISIONS		REVISIONS		ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607	SR 33	POLK	430185-3-52-01	L-29

LIGHTING PLAN (19)

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

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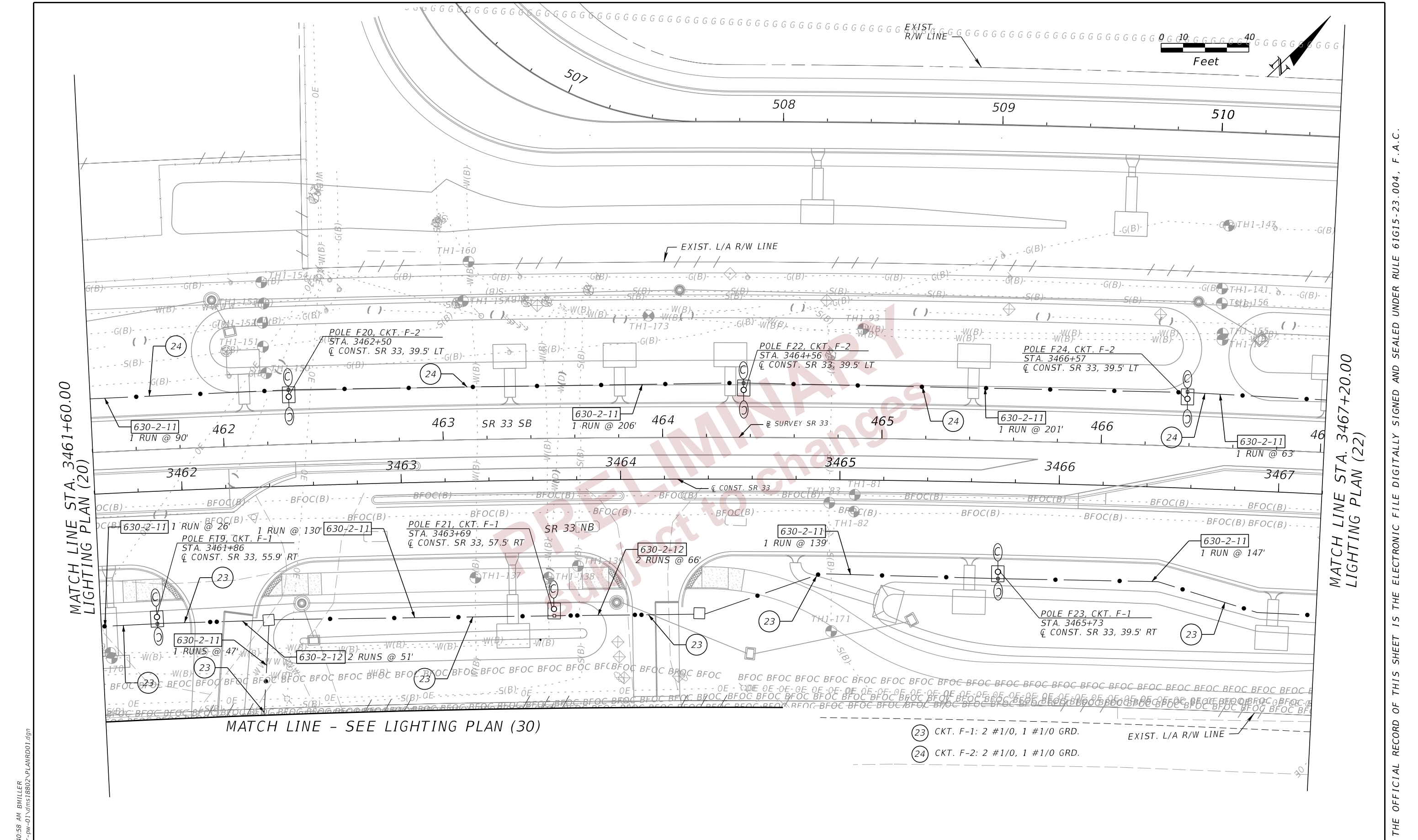


MATCH LINE STA. 3456+00.00
LIGHTING PLAN (19)

MATCH LINE STA. 3461+60.00
LIGHTING PLAN (21)

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

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 33	POLK	430185-3-52-01	
LIGHTING PLAN (20)									L-30



MATCH LINE STA. 3461+60.00
LIGHTING PLAN (20)

MATCH LINE STA. 3467+20.00
LIGHTING PLAN (22)

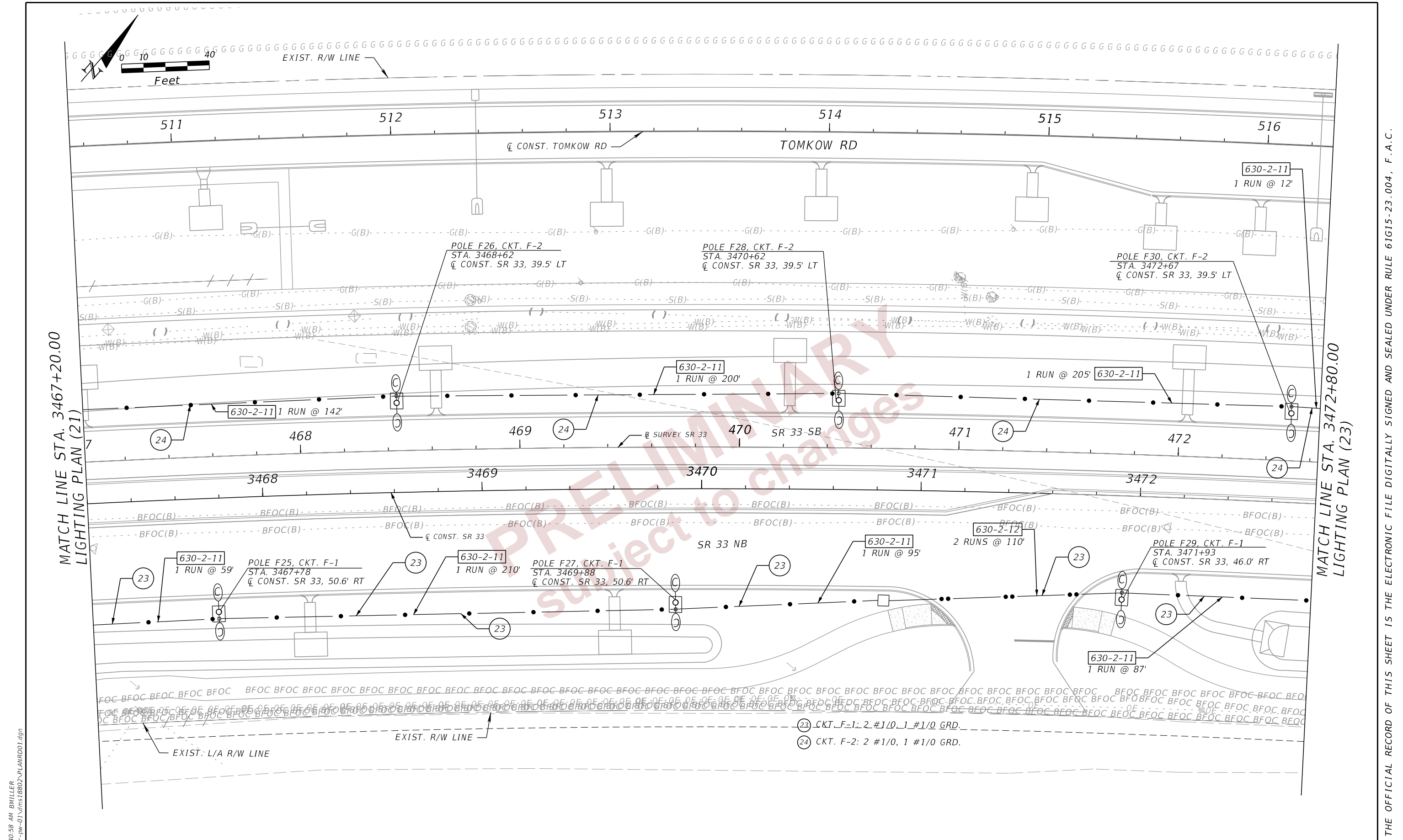
MATCH LINE - SEE LIGHTING PLAN (30)

- 23 CKT. F-1: 2 #1/0, 1 #1/0 GRD.
- 24 CKT. F-2: 2 #1/0, 1 #1/0 GRD.

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REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
			JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607	SR 33	POLK	430185-3-52-01	L-31
LIGHTING PLAN (21)							



MATCH LINE STA. 3467+20.00
LIGHTING PLAN (21)

MATCH LINE STA. 3472+80.00
LIGHTING PLAN (23)

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REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
			JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607	SR 33	POLK	430185-3-52-01	
LIGHTING PLAN (22)							L-32

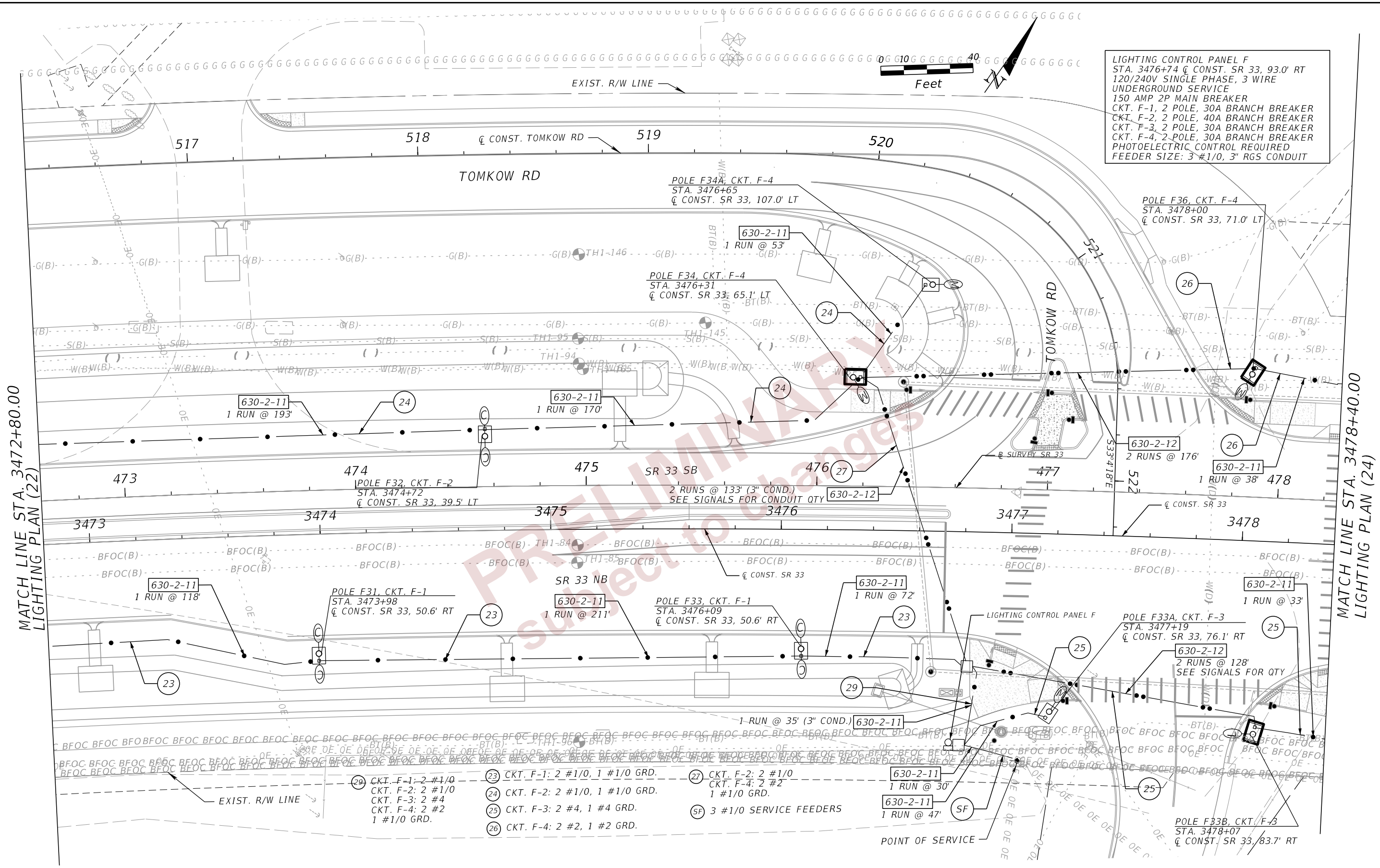
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MATCH LINE STA. 3472+80.00
 LIGHTING PLAN (22)

MATCH LINE STA. 3478+40.00
 LIGHTING PLAN (24)

LIGHTING CONTROL PANEL F
 STA. 3476+74 @ CONST. SR 33, 93.0' RT
 120/240V SINGLE PHASE, 3 WIRE
 UNDERGROUND SERVICE
 150 AMP 2P MAIN BREAKER
 CKT. F-1, 2 POLE, 30A BRANCH BREAKER
 CKT. F-2, 2 POLE, 40A BRANCH BREAKER
 CKT. F-3, 2 POLE, 30A BRANCH BREAKER
 CKT. F-4, 2 POLE, 30A BRANCH BREAKER
 PHOTOELECTRIC CONTROL REQUIRED
 FEEDER SIZE: 3 #1/0, 3" RGS CONDUIT

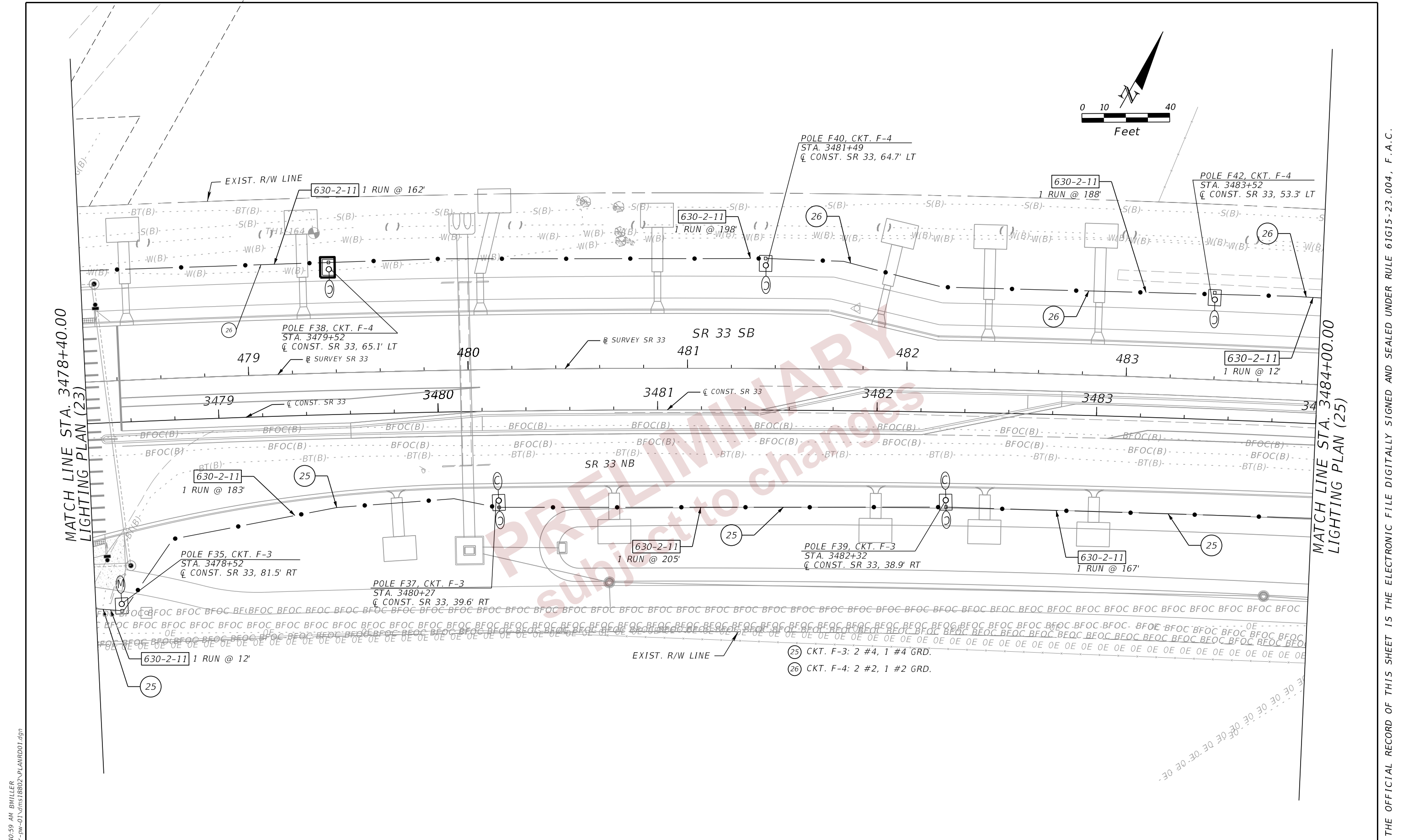


- 29 CKT. F-1: 2 #1/0
 CKT. F-2: 2 #1/0
 CKT. F-3: 2 #4
 CKT. F-4: 2 #2
 1 #1/0 GRD.
- 23 CKT. F-1: 2 #1/0, 1 #1/0 GRD.
- 24 CKT. F-2: 2 #1/0, 1 #1/0 GRD.
- 25 CKT. F-3: 2 #4, 1 #4 GRD.
- 26 CKT. F-4: 2 #2, 1 #2 GRD.
- 27 CKT. F-2: 2 #1/0
 CKT. F-4: 2 #2
 1 #1/0 GRD.
- SF 3 #1/0 SERVICE FEEDERS

REVISIONS		REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		SR 33	POLK	430185-3-52-01	L-33

LIGHTING PLAN (23)

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MATCH LINE STA. 3478+40.00
LIGHTING PLAN (23)

MATCH LINE STA. 3484+00.00
LIGHTING PLAN (25)

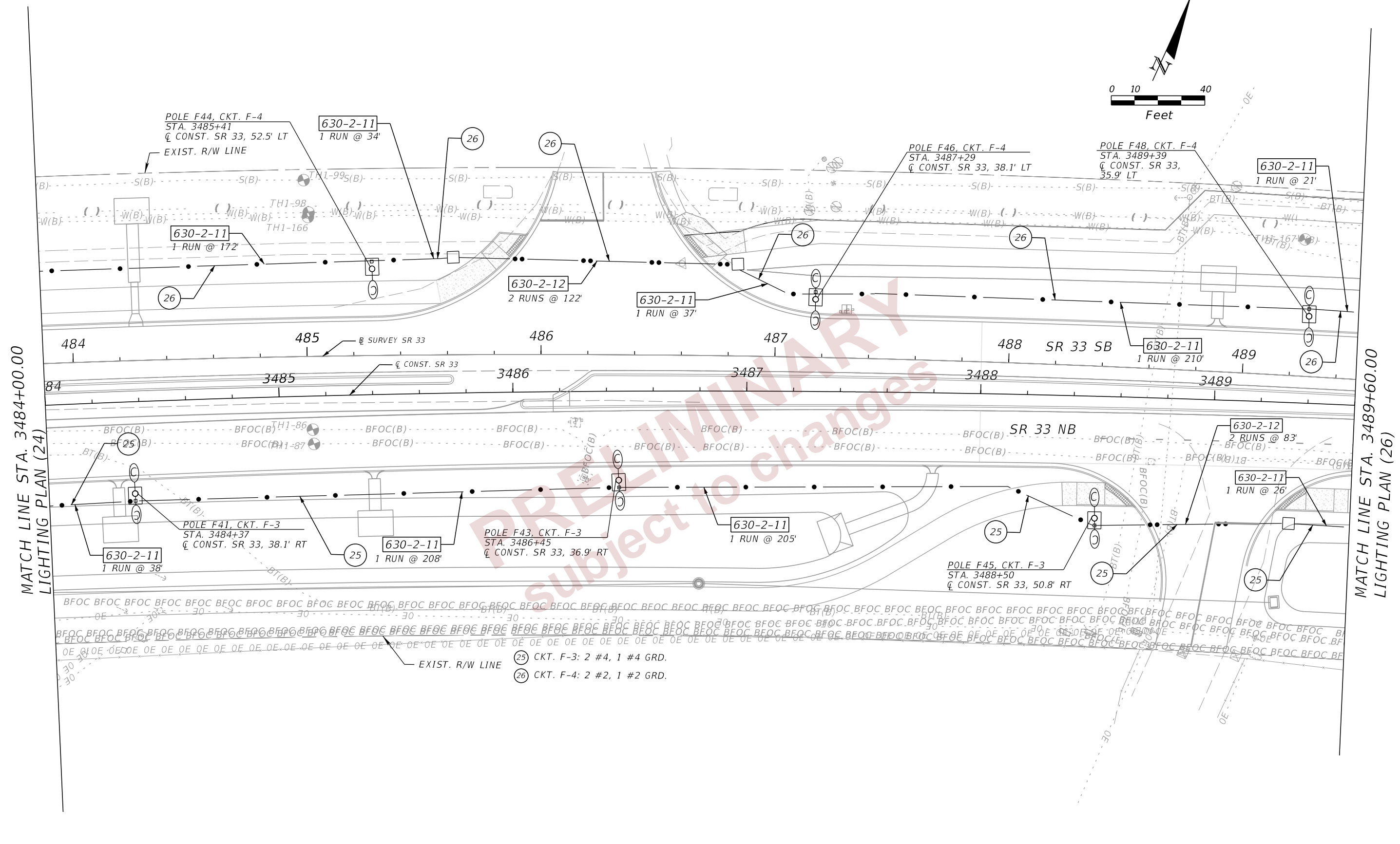
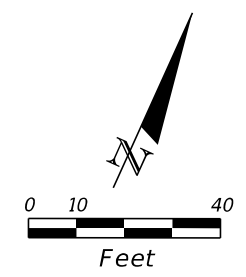
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 33	POLK	430185-3-52-01	

LIGHTING PLAN (24)

L-34



MATCH LINE STA. 3484+00.00
LIGHTING PLAN (24)

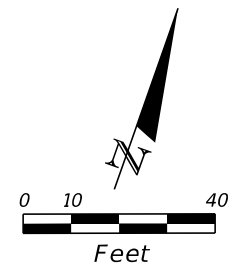
MATCH LINE STA. 3489+60.00
LIGHTING PLAN (26)

- (25) CKT. F-3: 2 #4, 1 #4 GRD.
- (26) CKT. F-4: 2 #2, 1 #2 GRD.

2/29/2024 10:41:00 AM BMILLER
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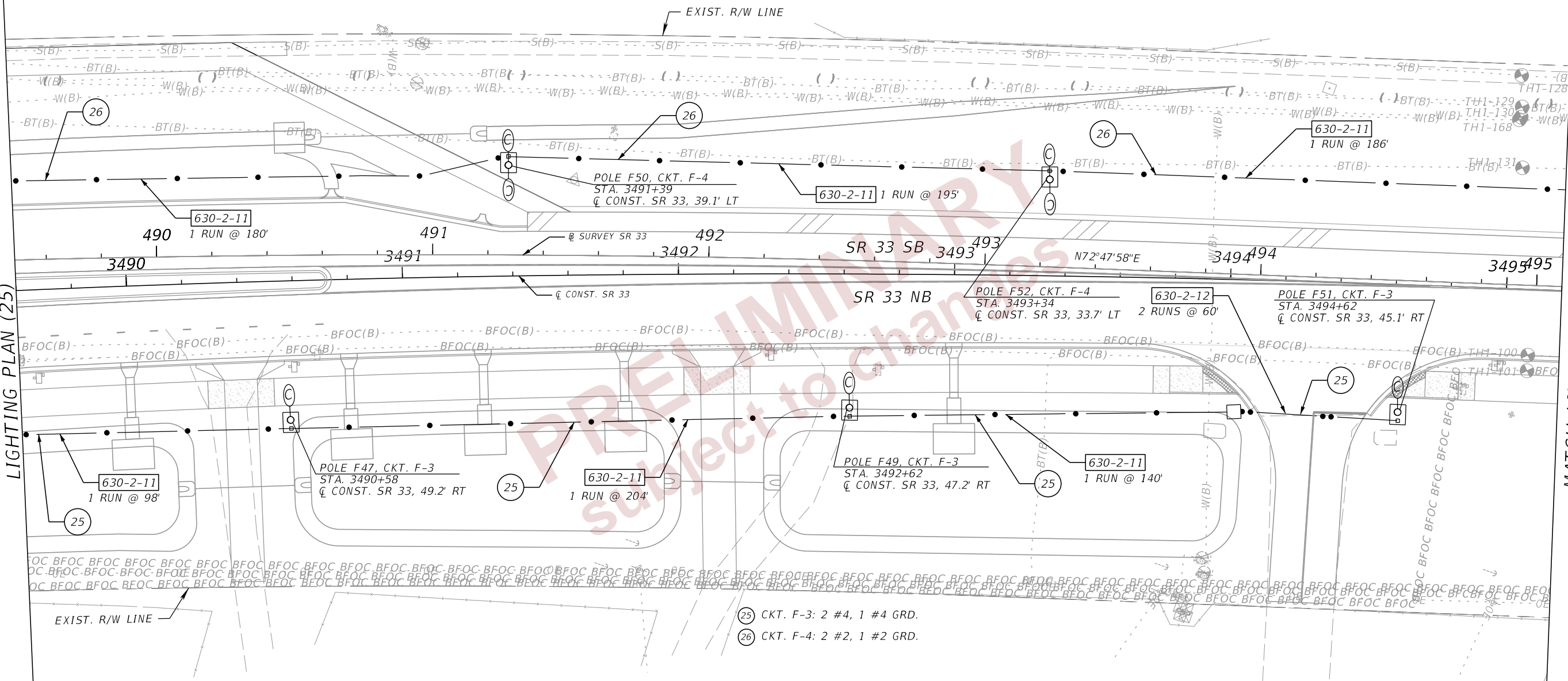
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DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		SR 33	POLK	430185-3-52-01	LIGHTING PLAN (25) L-35

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MATCH LINE STA. 3489+60.00
LIGHTING PLAN (25)

MATCH LINE STA. 3495+20.00
LIGHTING PLAN (27)



- 25 CKT. F-3: 2 #4, 1 #4 GRD.
- 26 CKT. F-4: 2 #2, 1 #2 GRD.

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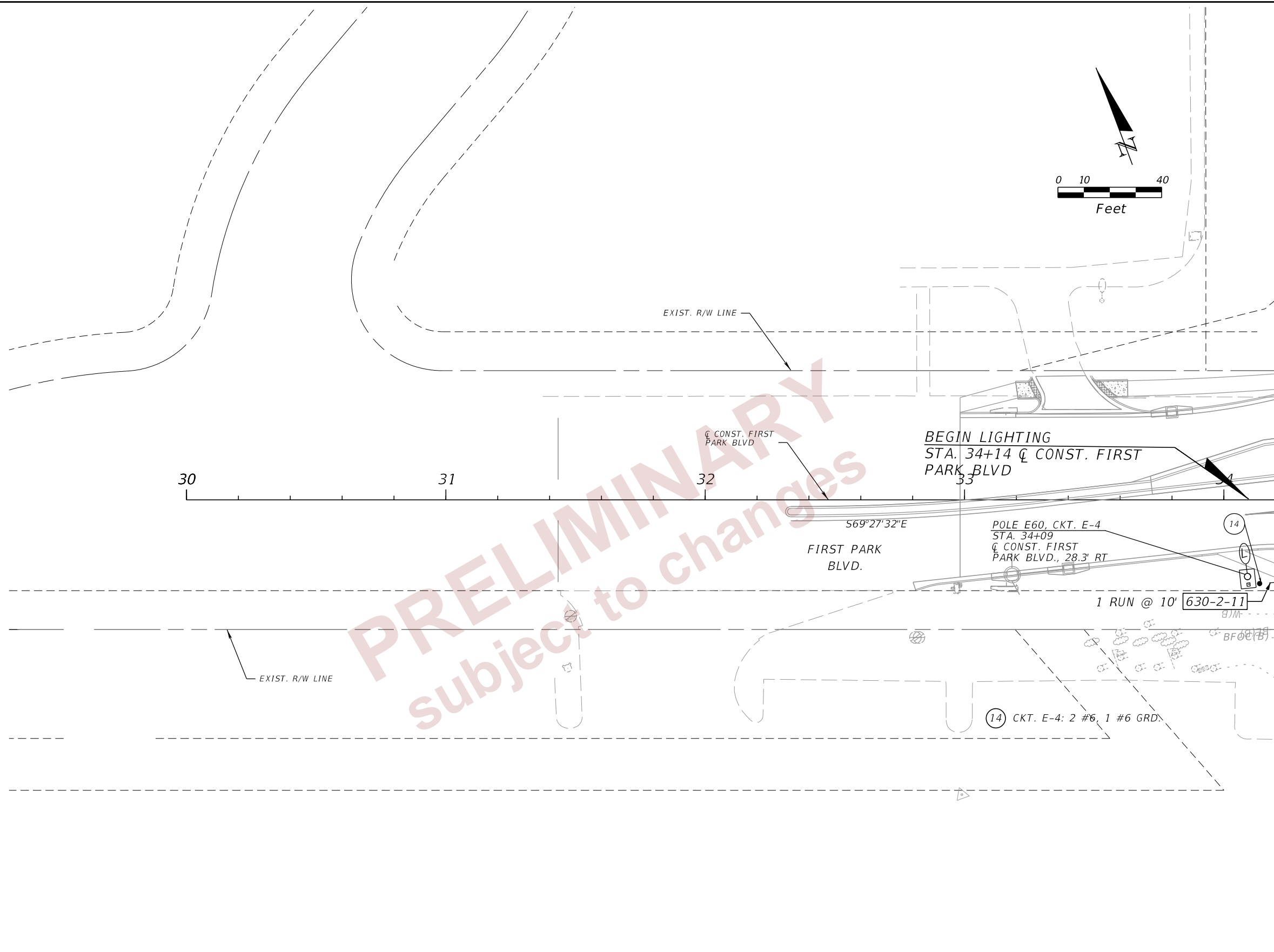
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DATE	DESCRIPTION	DATE	DESCRIPTION	JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 33	POLK	430185-3-52-01	

LIGHTING PLAN (26)

L-36

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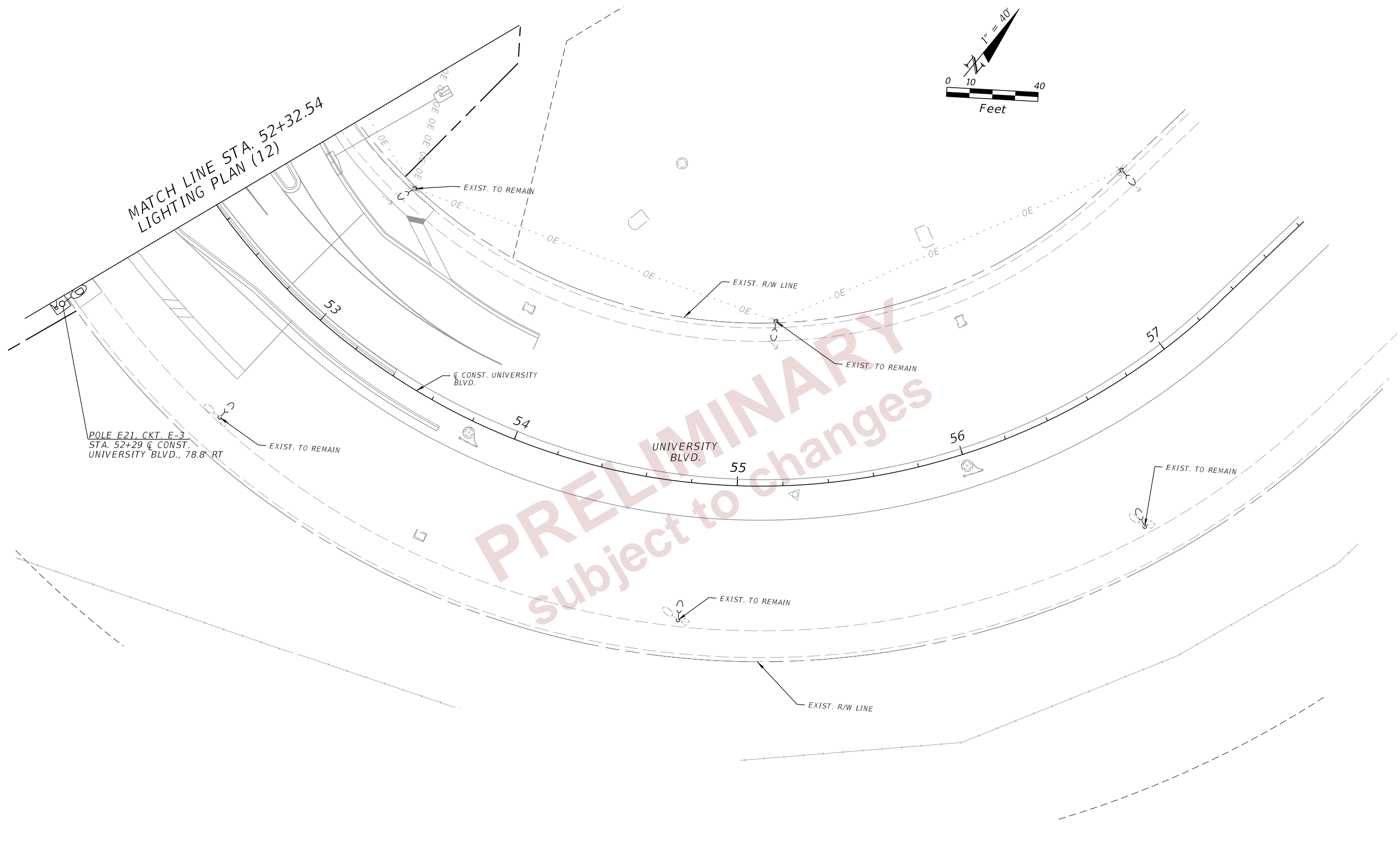
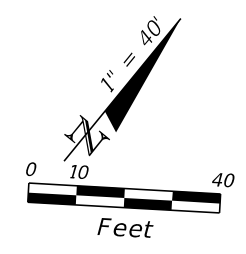


MATCH LINE STA. 34+20.00
LIGHTING PLAN (12)

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (28)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-38
						SR 33	POLK	430185-3-52-01		

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MATCH LINE STA. 52+32.54
LIGHTING PLAN (12)



POLE E21, CKT. E-3
STA. 52+29 C CONST.
UNIVERSITY BLVD., 78.8' RT

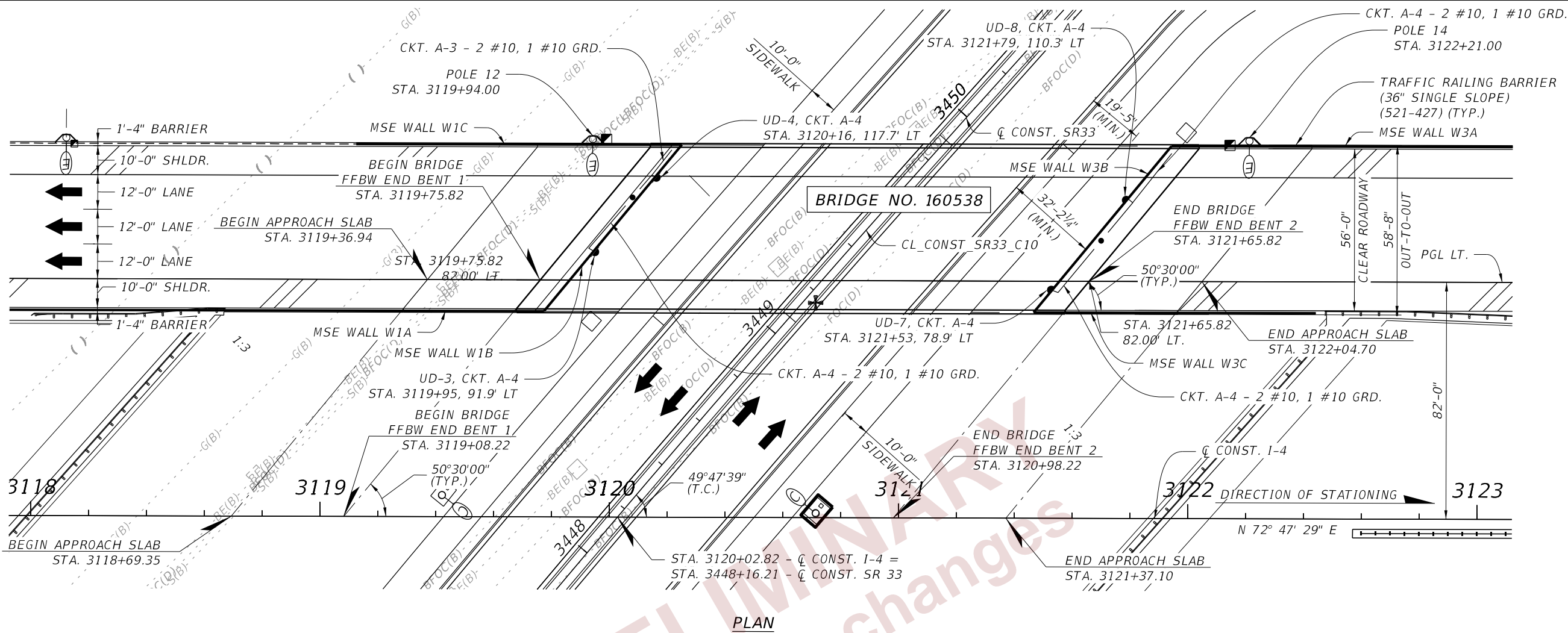
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		SR 33	POLK	430185-3-52-01	L-39

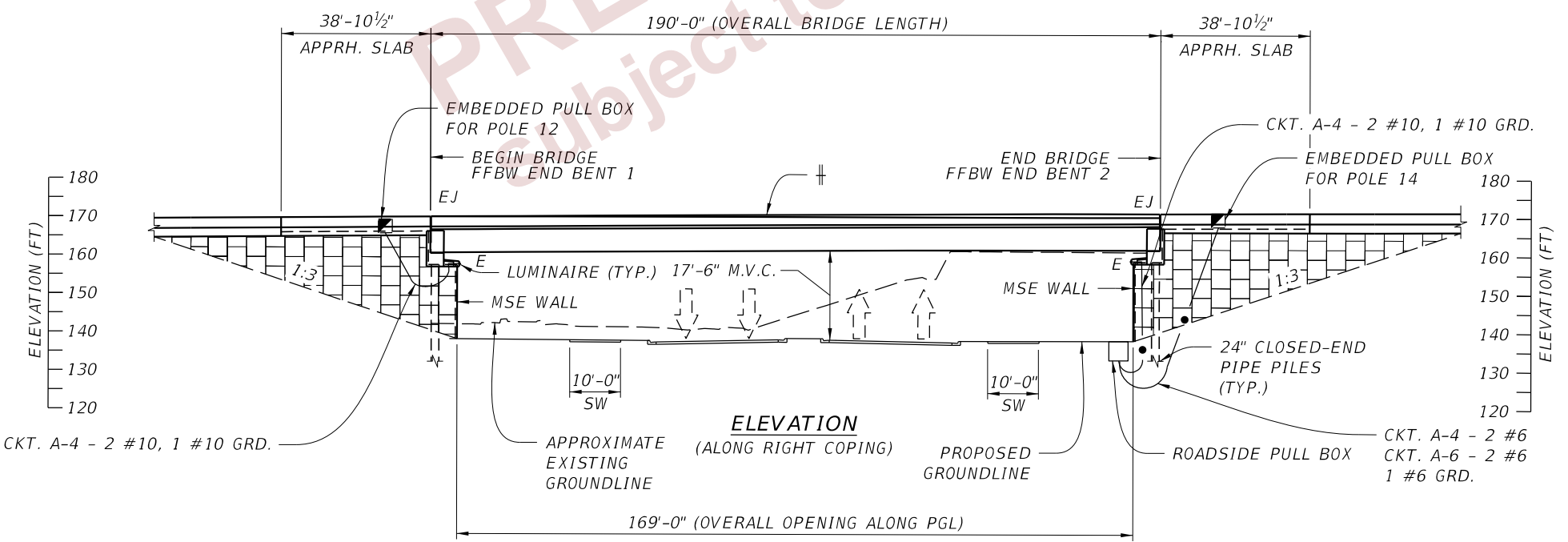
LIGHTING PLAN (29)



PLAN

LEGEND:

- DENOTES APPROXIMATE BORING LOCATION
- PROPOSED LANE
- LOCATION OF MINIMUM VERTICAL CLEARANCE (MVC)
- 36" SINGLE-SLOPE TRAFFIC RAILING BARRIER (INDEX 521-427) (TYP.)

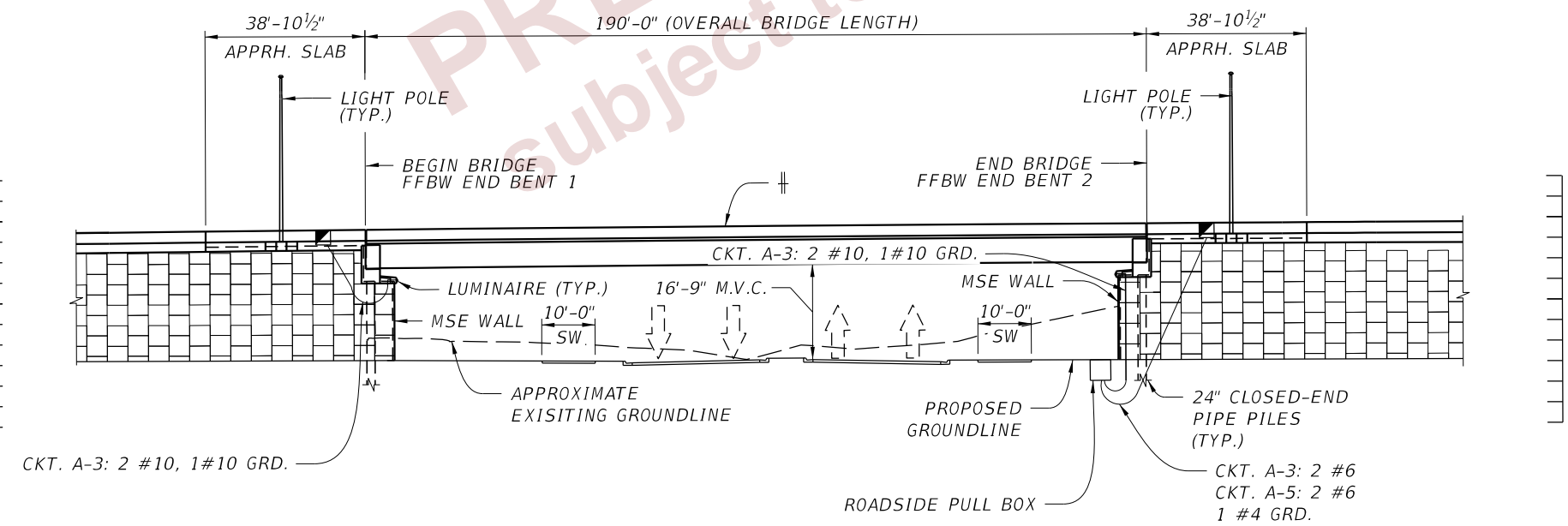
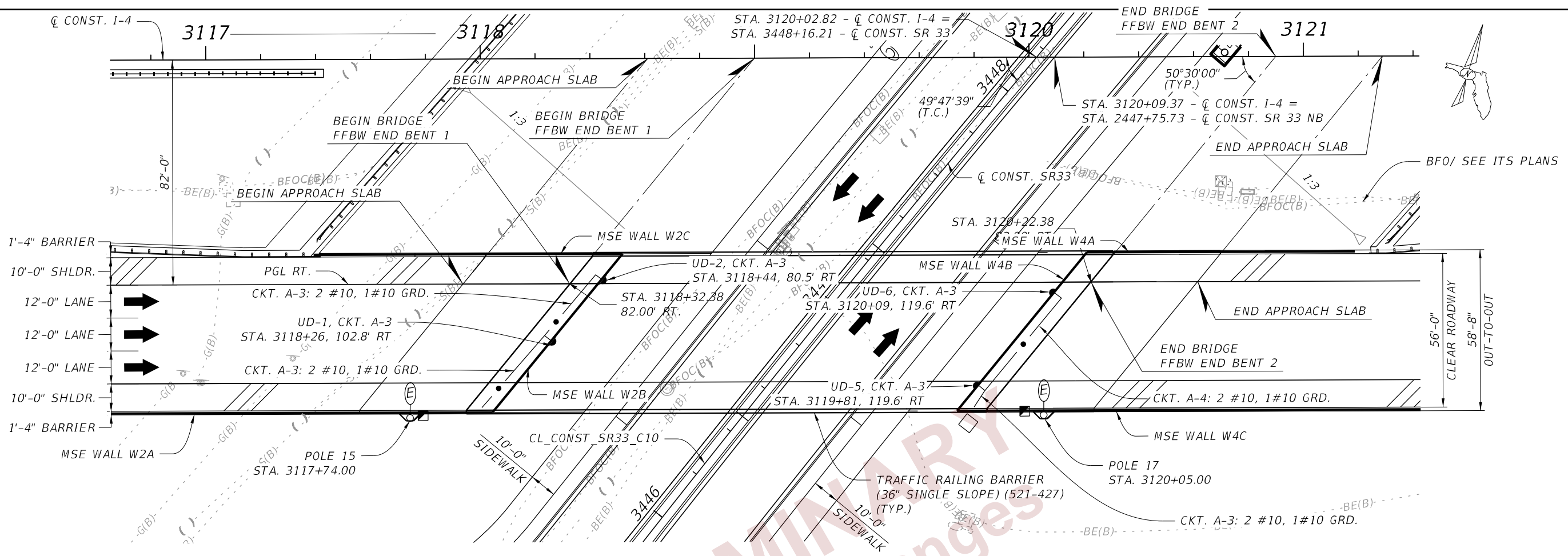


ELEVATION

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REVISIONS		REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 400	POLK	430185-3-52-01	L-41
UNDERDECK LIGHTING (01)									

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REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
			JAMIE P. HEUER, P.E. LICENSE NUMBER 67493 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607	SR 400	POLK	430185-3-52-01	UNDERDECK LIGHTING (02) L-42

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

NAME Panel A - 240/480V
Location: SR 33 NB AT I-4

1 PH 3W 100A Main CB

TYPE: Panelboard
AIC: 35,000
FDOT MAINTENANCE

NO.	DESCRIPTION	LOAD	CB	*	A	B	CB	*	LOAD	DESCRIPTION	NO.
1	Lighting Circuit A-1	5374.4	30/2	CB	X		30/2	CB	4960.0	Lighting Circuit A-2	2
3						X					
5	Lighting Circuit A-3	2641.1	30/2	CB	X		30/2	CB	2641.1	Lighting Circuit A-4	6
7						X					
9	Lighting Circuit A-5	2945.6	30/2	CB	X		30/2	CB	2677.8	Lighting Circuit A-6	10
11						X					
13	Lighting Circuit A-7	6955.6	30/2	CB	X		30/2	CB	4207.8	Lighting Circuit A-8	14
15						X					
17	Lighting Circuit A-9	3015.6	30/2	CB	X		30/2	CB		SPARE	18
19						X					
21	SPARE		30/2		X		30/2			SPARE	22
23						X					
			PH. A		PH. B						
			Connected VA		17709.4		17709.4				

Notes:

Load Type:	Conn. VA	NEC Demand Factor	NEC VA
Lighting	35419	x 125	44273.6
	35419	73.79 amps	44273.6 92.24 amps

NAME Panel E - 120/240V
Location: SR 33 NB AT UNIVERSITY BLVD

1 PH 3W 150A Main CB

TYPE: Panelboard
AIC: 35,000
CITY OF LAKELAND MAINTENANCE

NO.	DESCRIPTION	LOAD	CB	*	A	B	CB	*	LOAD	DESCRIPTION	NO.
1	Lighting Circuit E-1	2200.0	30/2	CB	X		30/2	CB	3003.3	Lighting Circuit E-2	2
3						X					
5	Lighting Circuit E-3	4792.2	30/2	CB	X		30/2	CB	1667.8	Lighting Circuit E-4	6
7						X					
9	Lighting Circuit E-5	1460.0	30/2	CB	X		30/2	CB	2600.0	Lighting Circuit E-6	10
11						X					
13	Lighting Circuit E-7	3406.7	30/2	CB	X		30/2	CB		SPARE	14
15						X					
17	SPARE		30/2	CB	X		30/2	CB		SPARE	18
19						X					
21	SPARE		30/2		X		30/2			SPACE	22
23						X					
			PH. A		PH. B						
			Connected VA		9565.0		9565.0				

Notes:

Load Type:	Conn. VA	NEC Demand Factor	NEC VA
Lighting	19130	x 125	23912.5
	19130	79.71 amps	23912.5 99.64 amps

NAME Panel F - 120/240V
Location: SR 33 NB AT TOMKOW RD.

1 PH 3W 150A Main CB

TYPE: Panelboard
AIC: 35,000
CITY OF LAKELAND MAINTENANCE

NO.	DESCRIPTION	LOAD	CB	*	A	B	CB	*	LOAD	DESCRIPTION	NO.
1	Lighting Circuit F-1	5271.1	30/2	CB	X		30/2	CB	5313.3	Lighting Circuit F-2	2
3						X					
5	Lighting Circuit F-3	3200.0	30/2	CB	X		30/2	CB	3400.0	Lighting Circuit F-4	6
7						X					
9	SPARE		30/2	CB	X		30/2	CB		SPARE	10
11						X					
13	SPARE		30/2	CB	X		30/2	CB		SPARE	14
15						X					
17	SPACE		30/2	CB	X		30/2	CB		SPACE	18
19						X					
21	SPACE		30/2		X		30/2			SPACE	22
23						X					
			PH. A		PH. B						
			Connected VA		8592.2		8592.2				

Notes:

Load Type:	Conn. VA	NEC Demand Factor	NEC VA
Lighting	17184	x 125	21480.6
	17184	71.60 amps	21480.6 89.50 amps

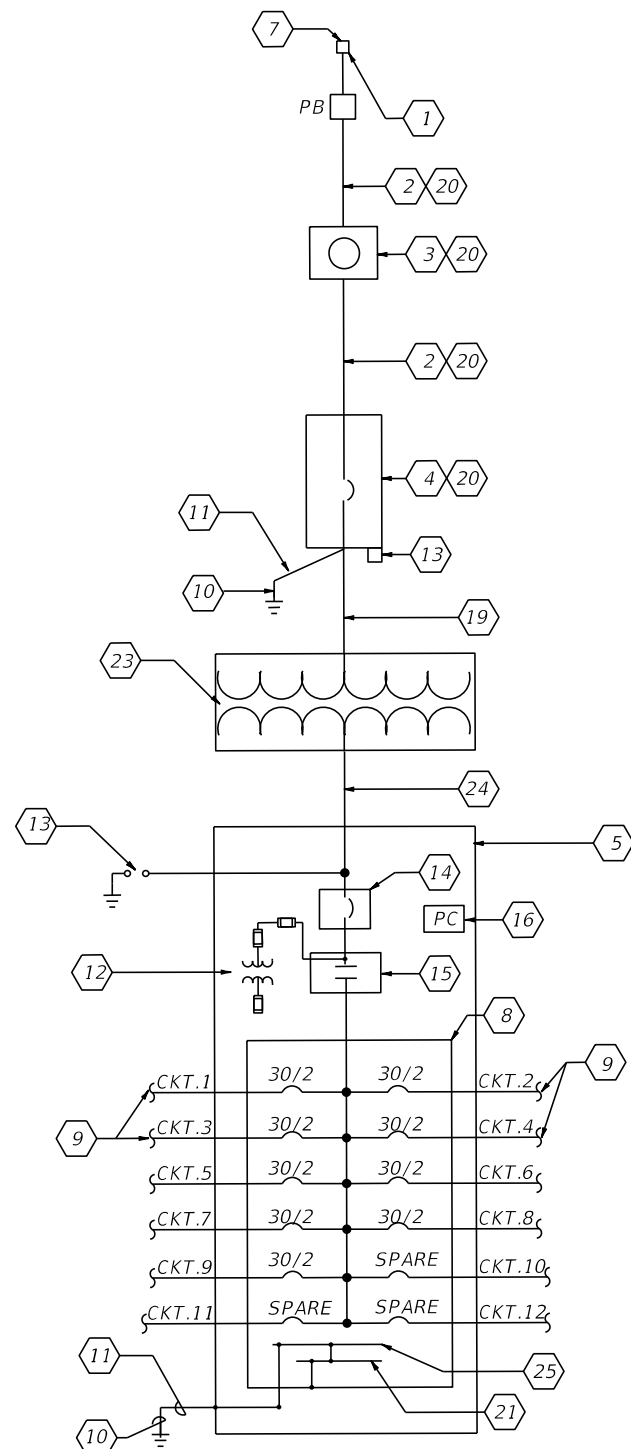
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REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JOSEPH M. CALDERON TORRES II, P.E. LICENSE NUMBER 90625 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 400	POLK	430185-3-52-01	SERVICE POINT DETAILS			
										L-43

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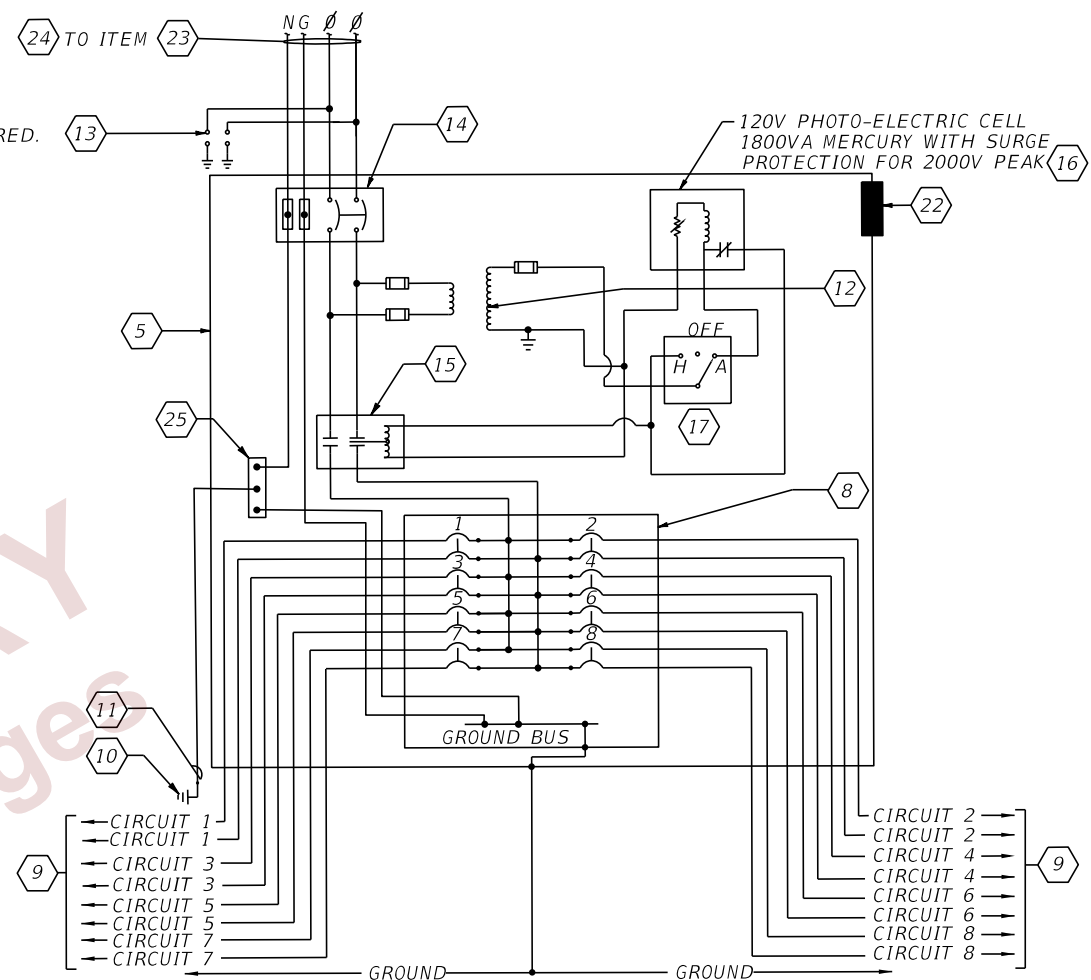
ONE LINE DIAGRAM DISTRIBUTION POINT
N.T.S.

- KEYED NOTES:**
- 1 120/240V, SINGLE PHASE 3-WIRE CITY OF LAKE LAND ELECTRIC OVERHEAD POWER SERVICE.
 - 2 SERVICE FEEDER IN RIGID GALVANIZED STEEL CONDUIT.
 - 3 METER SOCKET BY CONTRACTOR. METER BY CITY OF LAKE LAND ELECTRIC IF REQUIRED.
 - 4 200 AMP, 240V SOLID NEUTRAL HEAVY DUTY NEMA 4X SST FUSED SAFETY SWITCH
 - 5 LIGHTING CONTROL CABINET NEMA 4X SST ENCLOSURE. DIMENSIONS AS NECESSARY FOR EQUIPMENT INSIDE. ALL WIRING BETWEEN ENCLOSURES SHALL BE IN RIGID GALVANIZED STEEL CONDUIT. GROUND MOUNTED CABINET PER INDEX 639-002.
 - 6 CONCRETE RISER POLE.
 - 7 WEATHERHEAD
 - 8 PANELBOARD, 480V, 1 PHASE 2-WIRE WITH GROUND BUS, IN NEMA 1 ENCLOSURE, WITH 2-POLE, 18,000 AIC BRANCH CIRCUIT BREAKERS. NUMBER & RATING OF BRANCH CIRCUIT BREAKERS SHALL BE AS INDICATED ON DISTRIBUTION POINT DESCRIPTION ON LIGHTING PLAN SHEETS.
 - 9 BRANCH CIRCUIT TO ROADWAY LUMINAIRES (FOR THE SIZE OF THE CIRCUIT BREAKER SEE LIGHTING PLANS).
 - 10 COPPER CLAD GROUND ROD 5/8" DIAMETER, 40 FT LONG.
 - 11 #2 INSULATED COPPER GROUND WIRE IN 3/4" RIGID GALVANIZED STEEL CONDUIT. BOND THE SERVICE NEUTRAL TO GROUND AT SERVICE MAIN DISCONNECT. BOND THE NEUTRAL TO GROUND AT LOAD CENTER IN ACCORDANCE WITH NATIONAL ELECTRIC CODE FOR SEPARATELY DERIVED SYSTEMS.
 - 12 FUSED CONTROL POWER TRANSFORMER 0.5 KVA, 1 PHASE, 480V PRIMARY, 120V SECONDARY (PART OF LIGHTING CONTACTOR, SHOWN OUTSIDE FOR CLARITY).
 - 13 LIGHTNING ARRESTER MOUNTED ON OUTSIDE OF ENCLOSURE.
 - 14 LIGHTING CONTROL CABINET CIRCUIT BREAKER, 2P, 480V, 35,000 AIC IN NEMA 1 ENCLOSURE.
 - 15 2P ELECTRICALLY HELD LIGHTING CONTACTOR IN NEMA 1 ENCLOSURE WITH SAME STANDARD SIZE AS MAIN CIRCUIT BREAKER OR GREATER.
 - 16 120V PHOTO ELECTRIC CELL, 1800VA WITH 2000V PEAK SURGE PROTECTION MOUNTED INSIDE LIGHTING CONTROL CABINET.
 - 17 HAND-OFF AUTOMATIC SELECTOR SWITCH (PART OF LIGHTING CONTACTOR, SHOWN OUTSIDE FOR CLARITY).
 - 18 CONCRETE PAD.
 - 19 2 NO. 4/0, 1 NO. 4/0 GRD UNDERGROUND FEEDER TO TRANSFORMER PRIMARY IN SCHEDULE 40 PVC CONDUIT.
 - 20 MOUNT ON PEDESTAL POLE.
 - 21 GROUND BUS.
 - 22 2" x 2" SQUARE PLEXIGLASS WINDOW FOR PHOTOCELL.
 - 23 PAD MOUNTED TRANSFORMER 240-480 VOLT, SINGLE PHASE 50 KVA, NEMA 4X.
 - 24 2 NO. 2, 1 NO. 2 GRD, 1 NO. 2 NEUTRAL FEEDER FROM TRANSFORMER SECONDARY IN SCHEDULE 40 PVC CONDUIT TO PANEL.
 - 25 NEUTRAL BAR. PROVIDE #2 AWG BONDING JUMPER BETWEEN NEUTRAL BAR AND GROUND BAR.

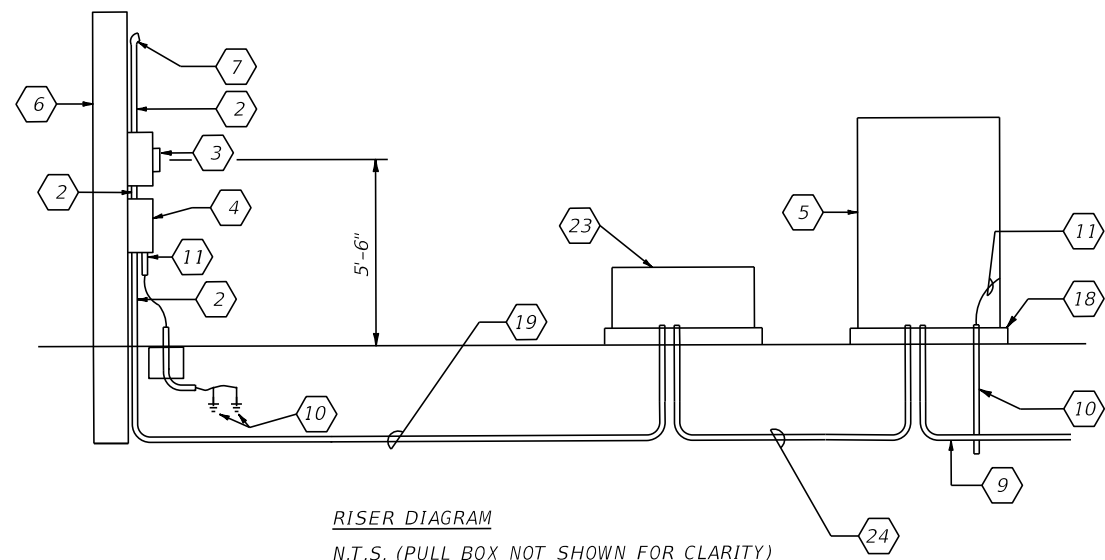
GENERAL NOTE:

ALL ELECTRICAL EQUIPMENT INCLUDING SERVICE, MAIN CIRCUIT BREAKER, LIGHTING CONTROL PANEL LOAD CENTER, POWER TRANSFORMER, LIGHTING CONTACTOR SHALL BE PROVIDED WITH 75° CELCIUS TERMINAL LUG CONNECTORS.

LIGHTING CONTROL PANEL A



TYPICAL DISTRIBUTION POINT SCHEMATIC DETAIL
N.T.S.

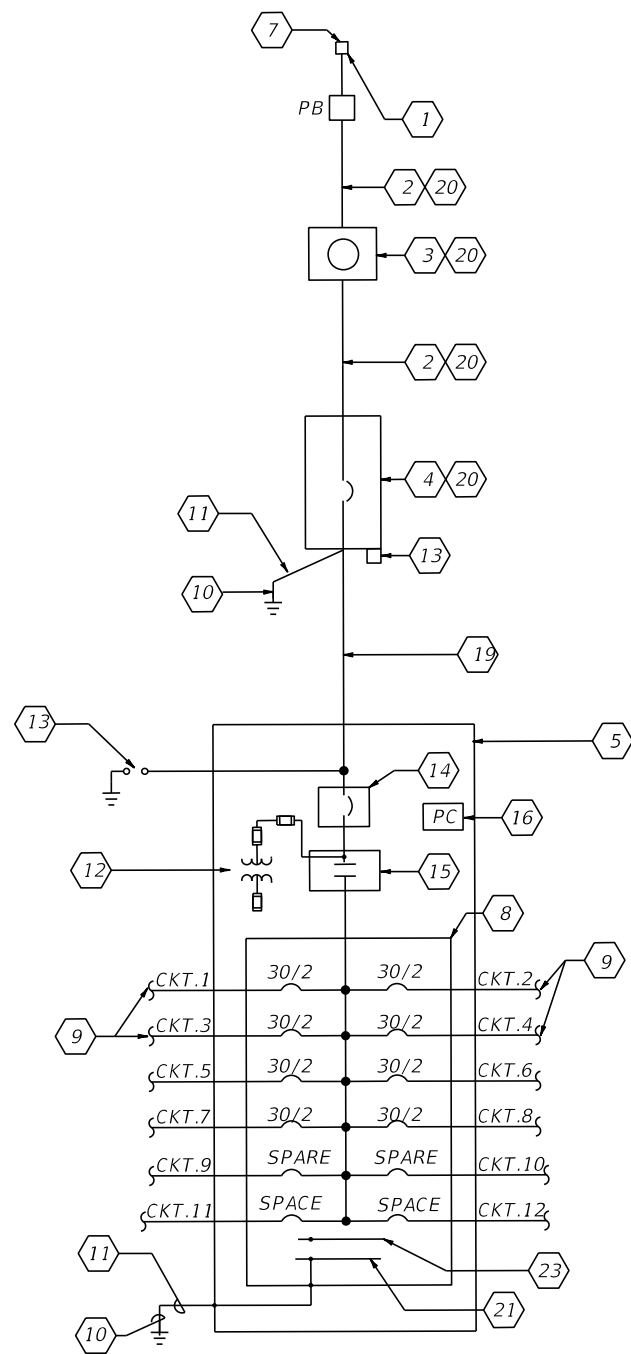


RISER DIAGRAM
N.T.S. (PULL BOX NOT SHOWN FOR CLARITY)

REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JOSEPH M. CALDERON TORRES II, P.E. LICENSE NUMBER 90625 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 400	POLK	430185-3-52-01	SERVICE POINT DETAILS			

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

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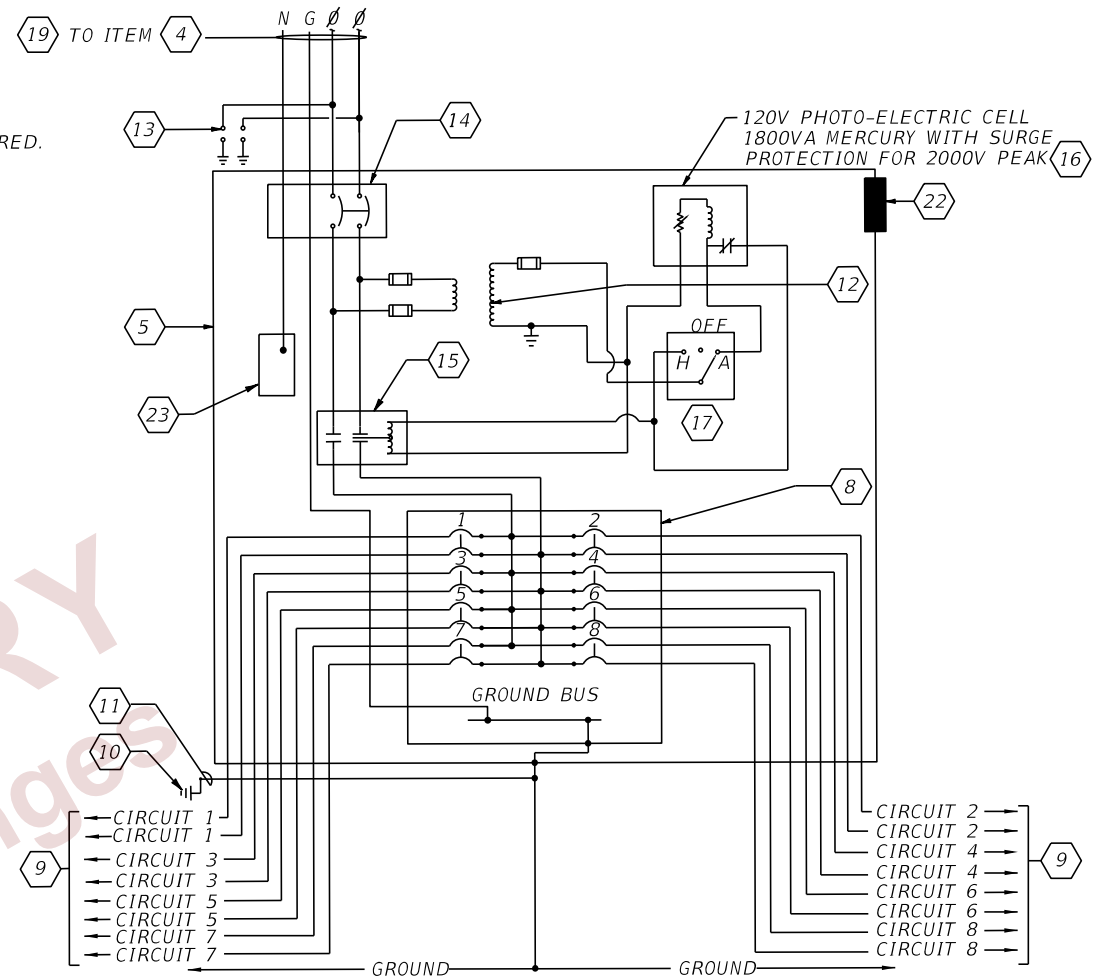
ONE LINE DIAGRAM DISTRIBUTION POINT
N.T.S.

- KEYED NOTES:**
- 1 120/240V, SINGLE PHASE 3-WIRE CITY OF LAKE LAND ELECTRIC OVERHEAD POWER SERVICE.
 - 2 SERVICE FEEDER IN RIGID GALVANIZED STEEL CONDUIT.
 - 3 METER SOCKET BY CONTRACTOR. METER BY CITY OF LAKE LAND ELECTRIC IF REQUIRED.
 - 4 150 AMP, 240V SOLID NEUTRAL HEAVY DUTY NEMA 4X SST NON-FUSED SAFETY SWITCH
 - 5 LIGHTING CONTROL CABINET NEMA 4X SST ENCLOSURE. DIMENSIONS AS NECESSARY FOR EQUIPMENT INSIDE. ALL WIRING BETWEEN ENCLOSURES SHALL BE IN RIGID GALVANIZED STEEL CONDUIT. GROUND MOUNTED CABINET PER INDEX 639-002.
 - 6 CONCRETE RISER POLE.
 - 7 WEATHERHEAD
 - 8 PANELBOARD, 240V, 1 PHASE 2-WIRE WITH GROUND BUS, IN NEMA 1 ENCLOSURE, WITH 2-POLE, 18,000 AIC BRANCH CIRCUIT BREAKERS. NUMBER & RATING OF BRANCH CIRCUIT BREAKERS SHALL BE AS INDICATED ON DISTRIBUTION POINT DESCRIPTION ON LIGHTING PLAN SHEETS.
 - 9 BRANCH CIRCUIT TO ROADWAY LUMINAIRES (FOR THE SIZE OF THE CIRCUIT BREAKER SEE LIGHTING PLANS).
 - 10 COPPER CLAD GROUND ROD $\frac{5}{8}$ " DIAMETER, 40 FT LONG.
 - 11 #1/0 INSULATED COPPER GROUND WIRE IN $\frac{3}{4}$ " RIGID GALVANIZED STEEL CONDUIT. BOND THE SERVICE NEUTRAL TO GROUND AT SERVICE MAIN DISCONNECT.
 - 12 FUSED CONTROL POWER TRANSFORMER 0.5 KVA, 1 PHASE, 240V PRIMARY, 120V SECONDARY (PART OF LIGHTING CONTACTOR, SHOWN OUTSIDE FOR CLARITY).
 - 13 LIGHTNING ARRESTER MOUNTED ON OUTSIDE OF ENCLOSURE.
 - 14 LIGHTING CONTROL CABINET CIRCUIT BREAKER, 2P, 240V, 35,000 AIC IN NEMA 1 ENCLOSURE.
 - 15 2P ELECTRICALLY HELD LIGHTING CONTACTOR IN NEMA 1 ENCLOSURE WITH SAME STANDARD SIZE AS MAIN CIRCUIT BREAKER OR GREATER.
 - 16 120V PHOTO ELECTRIC CELL, 1800VA WITH 2000V PEAK SURGE PROTECTION MOUNTED INSIDE LIGHTING CONTROL CABINET.
 - 17 HAND-OFF AUTOMATIC SELECTOR SWITCH (PART OF LIGHTING CONTACTOR, SHOWN OUTSIDE FOR CLARITY).
 - 18 CONCRETE PAD.
 - 19 UNDERGROUND FEEDER IN SCHEDULE 40 PVC CONDUIT. SEE PLAN SHEETS FOR CONDUIT AND FEEDER SIZES.
 - 20 MOUNT ON PEDESTAL POLE.
 - 21 GROUND BUS.
 - 22 2" x 2" SQUARE PLEXIGLASS WINDOW FOR PHOTOCELL.
 - 23 NEUTRAL BAR

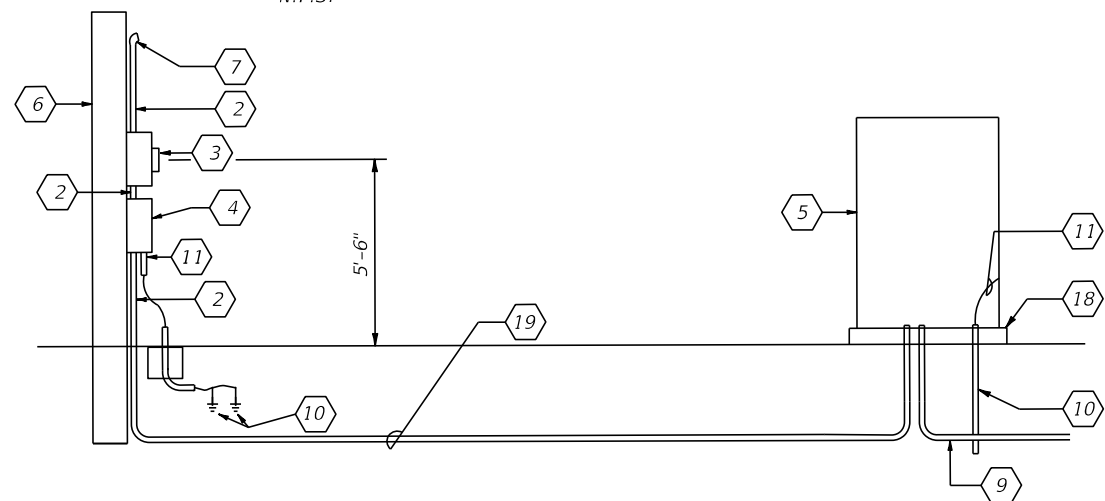
GENERAL NOTE:

ALL ELECTRICAL EQUIPMENT INCLUDING SERVICE, MAIN CIRCUIT BREAKER, LIGHTING CONTROL PANEL LOAD CENTER, POWER TRANSFORMER, LIGHTING CONTACTOR SHALL BE PROVIDED WITH 75° CELCIUS TERMINAL LUG CONNECTORS.

LIGHTING CONTROL PANEL (TYPICAL OF PANELS 'E' & 'F')



TYPICAL DISTRIBUTION POINT SCHEMATIC DETAIL
N.T.S.



RISER DIAGRAM
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