

CONTRACT PLANS COMPONENTS

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
SIGNALIZATION PLANS
LIGHTING PLANS

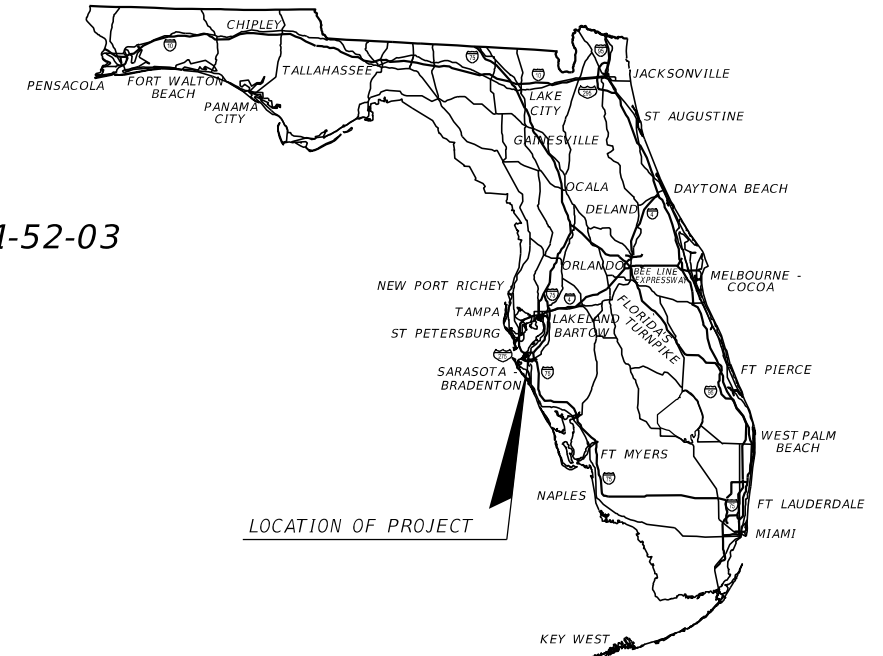
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 444612-1-52-01, 444612-1-52-02, AND 444612-1-52-03
(FEDERAL FUNDS)
MANATEE COUNTY (13010000)

STATE ROAD NO. 45 (US 41)
MILL AND RESURFACE EDWARDS DRIVE TO MAGELLAN DRIVE

LIGHTING PLANS



INDEX OF LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
L-1	KEY SHEET
L-2	SIGNATURE SHEET
L-3	GENERAL NOTES
L-4 - L-6	LIGHTING DATA TABLE AND LEGEND
L-7 - L-25	LIGHTING PLAN
L-XX	SPREAD FOOTING DETAIL (NOT INCLUDED)

PROJECT LOCATION URL:	https://tinyurl.com/yysx5m6c
PROJECT LIMITS:	BEGIN MP 0.000 - END MP 2.095
EXCEPTIONS:	NONE
BRIDGE LIMITS:	NONE
RAILROAD CROSSING:	NONE

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY 2024-25 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

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

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, FY 2024-25 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

PHASE II PLANS
05/22/2024

LIGHTING PLANS

ENGINEER OF RECORD:

ISAMARIE L. MONREAL, P.E.
P.E. NO. 72029
FLORIDA DEPARTMENT OF TRANSPORTATION
DISTRICT ONE OFFICE
801 N. BROADWAY AVENUE
BARTOW, FL 33830-3809
863-519-2368

FDOT PROJECT MANAGER:

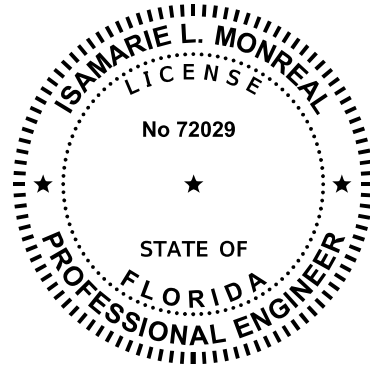
ISAMARIE L. MONREAL, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
T1813	26	L-1

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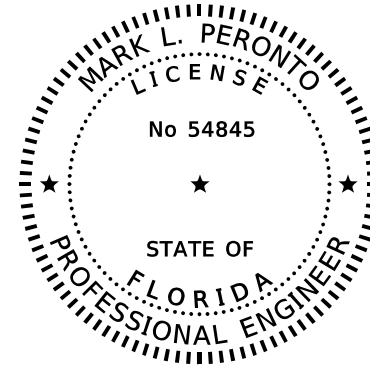
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FLORIDA DEPARTMENT OF TRANSPORTATION
DISTRICT ONE OFFICE
801 N. BROADWAY AVENUE
BARTOW, FL 33830-3809
ISAMARIE L. MONREAL, P.E. NO. 72029

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

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
L-1	KEY SHEET
L-2	SIGNATURE SHEET
L-3	GENERAL NOTES
L-4 - L-6	LIGHTING DATA TABLE AND LEGEND
L-7 - L-25	LIGHTING PLAN

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FLORIDA DEPARTMENT OF TRANSPORTATION
DISTRICT ONE OFFICE
801 N. BROADWAY AVENUE
BARTOW, FL 33830-3809
MARK L. PERONTO, P.E. NO. 54845

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

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
L-2	SIGNATURE SHEET
L-XX	SPREAD FOOTING DETAIL (NOT INCLUDED)

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ISAMARIE L. MONREAL, P.E. LICENSE NUMBER 72029 FLORIDA DEPARTMENT OF TRANSPORTATION 801 N. BROADWAY AVENUE BARTOW, FL 33830-3809		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 45	MANATEE	444612-1-52-01	SIGNATURE SHEET L-2

LIGHTING GENERAL NOTES

1. IF THE SUBMITTED LUMINAIRES ON THIS PROJECT ARE DIFFERENT THAN THE FIXTURE USED FOR DESIGN:
 - A) SUBMITTAL DATA SHALL INCLUDE A COMPUTER PRINTOUT SHOWING THAT ALL LIGHTING DESIGN CRITERIA IS BEING MET BY THE PROPOSED FIXTURES.
 - B) AT FINAL INSPECTION THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL FOOT-CANDLE LEVELS ON THE ROADWAY WITH AN APPROVED CURRENTLY CALIBRATED LIGHT METER, AND SUBMIT REPORT FOR APPROVAL.
2. SPARE CONDUIT SHALL BE PLACED AT ALL PAVEMENT CROSSINGS TERMINATED AT PULL BOXES. SPARE CONDUIT SHALL BE CAPPED AND SEALED AT BOTH ENDS.
3. THE LOCATIONS OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, ARE APPROXIMATE AND ARE SHOWN AS NOTICE TO THE CONTRACTOR THAT UNDERGROUND UTILITIES EXIST. STAKE ALL POLE LOCATIONS AND NOTIFY UTILITY OWNER(S) FOR LOCATION AND STAKING OF UNDERGROUND FACILITIES BEFORE EXCAVATING.
4. NOTIFY POWER COMPANY AT LEAST (2) WORKING DAYS PRIOR TO ANY INSTALLATION THAT IS WITHIN THE MINIMUM CLEARANCE DISTANCES ESTABLISHED BY OSHA STANDARD, PART 1926, SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION. THE POWER COMPANY, AS ITS OPTION, SHALL ASSIST THE CONTRACTOR, PROVIDE PROTECTION FOR ENERGIZED CONDUCTORS AT INSTALLATION SITE, OR TAKE OTHER SAFETY PRECAUTIONS AS NECESSARY. EXTREME CAUTION SHALL BE EXERCISED AT ALL TIMES IN PERFORMANCE OF WORK AROUND THE PRIMARY HIGH VOLTAGE COMPONENTS, CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES OR UNDERGROUND UTILITIES.
5. HAND DIG THE FIRST 4 FEET OF THE HOLE FOR THE POLE FOUNDATION AND CIRCUIT RUN.
6. NO LIGHT POLES, PULL BOXES OR LOAD CENTERS SHALL BE INSTALLED WITHIN ANY DITCHES OR AREAS THAT MAY CAUSE WATER INTRUSION.
7. FDOT OWNED / MANATEE COUNTY MAINTAINED LIGHTING PRESENT WITHIN LIMITS OF PROJECT.
 CONTACT: MANATEE COUNTY TRAFFIC OPERATIONS DIVISION
 AARON BURKETT (941) 708-7509
 TRAFFIC OPERATIONS DIVISION MANAGER
 2904 12TH STREET COURT EAST
 BRADENTON, FL 34208-1000

LIGHTING PAY ITEM NOTES

0639-1-500:
 THE CONTRACTOR SHALL USE THE EXISTING SERVICE POLES AT LOAD CENTERS A AND B. THE CONTRACTOR SHALL INSTALL NEW METERS AND DISCONNECTS ON THE EXISTING SERVICE POLES AND REMOVE THE EXISTING DISCONNECTS FROM THE SERVICE POLES.

MAJOR ARTERIALS CORRIDOR LIGHTING DESIGN CRITERIA	
Average Horizontal Illuminance	1.5 Foot Candles
Uniformity Ratio Avg./Min.	4 : 1 Or Less
Uniformity Ratio Max./Min.	10 : 1 Or Less
Veiling Luminance Ratio	0.3 : 1 Or Less
Wind Speed	140 MPH

RETROFIT INTERSECTION LIGHTING DESIGN CRITERIA (BRADEN AVE, WHITFIELD AVE, PEARL AVE)	
Average Horizontal Illuminance	1.5 Foot Candles Standard, 1.0 Foot Candles Minimum
Average Vertical Illuminance	1.5 Foot Candles Standard, 1.0 Foot Candles Minimum
Uniformity Ratio Avg./Min.	4 : 1 Or Less
Uniformity Ratio Max./Min.	10 : 1 Or Less
Wind Speed	140 MPH

NEW CONSTRUCTION INTERSECTION LIGHTING DESIGN CRITERIA (TALLAVAST ROAD)	
Average Horizontal Illuminance	3.0 Foot Candles Standard, 1.5 Foot Candles Minimum
Average Vertical Illuminance	1.5 Foot Candles Standard, 1.2 Foot Candles Minimum
Uniformity Ratio Avg./Min.	4 : 1 Or Less
Uniformity Ratio Max./Min.	10 : 1 Or Less
Wind Speed	140 MPH

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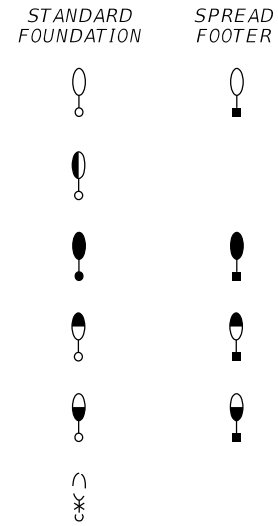
REVISIONS			ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
				ISAMARIE L. MONREAL, P.E. LICENSE NUMBER 72029 FLORIDA DEPARTMENT OF TRANSPORTATION 801 N. BROADWAY AVENUE BARTOW, FL 33830-3809	SR 45	MANATEE	444612-1-52-01		L-3

SYMBOL

DESCRIPTION

SYMBOL

DESCRIPTION



242 WATT TYPE III LUMINAIRE, 480 VAC, 28800 LUMENS. SEE POLE DATA TABLE WHETHER RETROFITTED ON EXISTING OR PROPOSED ON NEW STANDARD POLE (45') AND ARM (15'). ANALYSIS BASED ON CURRENT EVOLVE FIXTURE ERL2530C530.

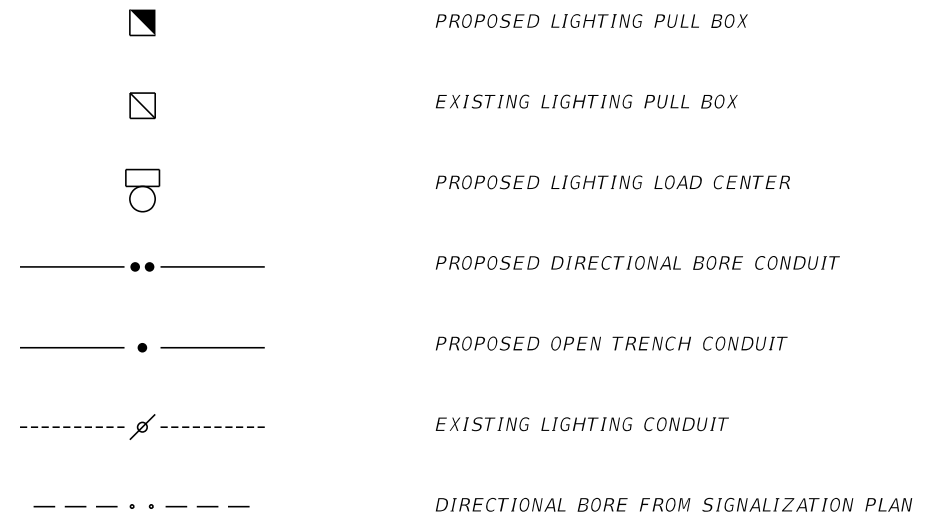
223 WATT TYPE III LUMINAIRE, 480 VAC, 26800 LUMENS. SEE POLE DATA TABLE WHETHER RETROFITTED ON EXISTING OR PROPOSED ON NEW STANDARD POLE (45') AND ARM (15'). ANALYSIS BASED ON CURRENT EVOLVE FIXTURE ERL2528D530.

130 WATT TYPE II LUMINAIRE, 480 VAC, 17200 LUMENS. SEE POLE DATA TABLE WHETHER RETROFITTED ON EXISTING OR PROPOSED ON NEW STANDARD POLE (30') OR UTILITY CONFLICT POLE (30' or 35') AND ARM (15' or 16'). ANALYSIS BASED ON CURRENT EVOLVE FIXTURE ERL2518E530.

121 WATT TYPE IV LUMINAIRE, 480 VAC, 13820 LUMENS. FUURNISH AND INSTALL STANDARD POLE (30', 35', or 45') AND ARM (8' or 15'). ANALYSIS BASED ON CURRENT EVOLVE FIXTURE ERL1515D530 WITH ELSHS-ERL1-BLCK.

110 WATT TYPE II LUMINAIRE, 480 VAC, 11190 LUMENS. FUURNISH AND INSTALL STANDARD POLE (30', 35' or 45') AND ARM (8' or 15'). ANALYSIS BASED ON CURRENT EVOLVE FIXTURE ERL1514E530 WITH ELSHS-ERL1-BLCK.

EXISTING POLE, FOUNDATION, AND LUMINAIRE TO BE REMOVED.



US 41 (SR 45 / TAMiami TRAIL)

POLE NO.	CIRCUIT	PAY ITEM	STATION	ARM LENGTH	ARM RISE	LUMINAIRE WATTAGE	LUMINAIRE LUMENS	MOUNTING HEIGHT	ROTATION CCW FROM Φ (DEG)	TILT (DEG)	CCT (K)	POLE SETBACK	DISTRIBUTION TYPE	ARM CONFGUATION	POLE	FOUNDATION	IES FILE NAME
1	A-2	0715 61452	A 1204+30.64	15'		242W	28800	45'	90		3000	58.34 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_30C530____.ies
2	A-2	0715 61452	A 1205+63.59	15'		242W	28800	45'	270		3000	58.18 LT	TYPE III	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_30C530____.ies
3	A-2	0715 61452	A 1206+74.73	15'		242W	28800	45'	80		3000	58.11 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_30C530____.ies
4	A-2	0715 61452	A 1207+68.62	15'		242W	28800	45'	285		3000	54.47 LT	TYPE III	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_30C530____.ies
5	A-2	0715 61452	A 1209+42.50	15'		242W	28800	45'	90		3000	57.71 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_30C530____.ies
6	A-2	0715 65266	A 1210+97.72	16'	15'	130W	17200	35'	275		3000	58.63 LT	TYPE II	SINGLE ARM MOUNT	UTILITY CONFLICT	STANDARD CYLINDRICAL	ERL2_18E530____.ies
7*	A-2	0715 11211	A 1211+64.14	15'		242W	28800	45'	90		3000	58.72 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	EXISTING	ERL2_30C530____.ies
8*	A-2	0715 11211	A 1213+24.51	15'		223W	26800	45'	90	5	3000	58.8 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	EXISTING	ERL2_28D530____.ies
9*	A-2	0715 11211	A 1214+99.48	15'		242W	28800	45'	90		3000	58.71 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	EXISTING	ERL2_30C530____.ies
10	A-2	0715 61452	A 1215+08.85	15'		242W	28800	45'	270		3000	57.44 LT	TYPE III	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_30C530____.ies
11*	A-2	0715 11211	A 1216+78.63	15'		223W	26800	45'	90	5	3000	58.63 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	EXISTING	ERL2_28D530____.ies
12*	A-2	0715 11211	A 1218+09.24	15'		223W	26800	45'	90	5	3000	58.7 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	EXISTING	ERL2_28D530____.ies
13*	A-1	0715 11211	A 1219+73.59	15'		242W	28800	45'	270		3000	76.06 LT	TYPE III	SINGLE ARM MOUNT	STANDARD	EXISTING	ERL2_30C530____.ies
14*	A-2	0715 11211	A 1219+74.72	15'		242W	28800	45'	90		3000	58.83 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	EXISTING	ERL2_30C530____.ies
15	A-2	0715 61452	A 1221+32.25	15'		223W	26800	45'	90	5	3000	57.85 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_28D530____.ies
16*	A-1	0715 11211	A 1222+89.59	15'		242W	28800	45'	270		3000	63.51 LT	TYPE III	SINGLE ARM MOUNT	STANDARD	EXISTING	ERL2_30C530____.ies
17	A-2	0715 61452	A 1223+06.42	15'		242W	28800	45'	90		3000	57.88 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_30C530____.ies
18	A-1	0715 62452	A 1224+75.98	15'		242W	28800	45'	270		3000	58 LT	TYPE III	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_30C530____.ies
19*	A-2	0715 11211	A 1226+08.23	15'		242W	28800	45'	90		3000	58.69 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	EXISTING	ERL2_30C530____.ies
20	A-1	0715 62452	A 1227+55.47	15'		242W	28800	45'	270		3000	57.85 LT	TYPE III	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_30C530____.ies
21	A-2	0715 61452	A 1229+02.35	15'		242W	28800	45'	90		3000	57.9 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_30C530____.ies
22	A-1	0715 62452	A 1230+48.96	15'		242W	28800	45'	270		3000	57.78 LT	TYPE III	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_30C530____.ies
23	A-2	0715 61452	A 1231+71.86	15'		242W	28800	45'	90		3000	58.38 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_30C530____.ies
24	A-2	0715 61452	A 1232+74.44	15'		121W	13820	45'	45		3000	58.03 RT	TYPE IV	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL1_15D530____-ELSHS-ERL1-BLCK.ies

* RETROFITTED FIXTURE (EXISTING POLE TO REMAIN)

REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING DATA TABLE AND LEGEND	SHEET NO. L-4
DATE	DESCRIPTION		DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
						SR 45	MANATEE	444612-1-52-01			

US 41 (SR 45 / TAMiami TRAIL)

POLE NO.	CIRCUIT	PAY ITEM	STATION	ARM LENGTH	ARM RISE	LUMINAIRE WATTAGE	LUMINAIRE LUMENS	MOUNTING HEIGHT	ROTATION CCW FROM Φ (DEG)	TILT (DEG)	CCT (K)	POLE SETBACK	DISTRIBUTION TYPE	ARM CONFIGURATION	POLE	FOUNDATION	IES FILE NAME
25	A-1	0715 62411	A 1233+50.91	8'		110W	11190	45'	270		3000	58.70 LT	TYPE II	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL1_14E530_____-ELSHS-ERL1-BLCK.ies
26	A-1	0715 61252	A 1233+65.06	15'		110W	11190	35'	345		3000	89.33 LT	TYPE II	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL1_14E530_____-ELSHS-ERL1-BLCK.ies
27	A-2	0715 61211	A 1233+66.74	8'		110W	11190	35'	165		3000	85.92 RT	TYPE II	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL1_14E530_____-ELSHS-ERL1-BLCK.ies
28*	A-2	0715 11211	A 1235+02.59	15'		242W	28800	45'	90		3000	58.43 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	EXISTING	ERL2_30C530_____.ies
29	A-1	0715 61452	A 1235+10.75	15'		242W	28800	45'	270		3000	57.63 LT	TYPE III	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_30C530_____.ies
30	A-1	0715 61452	A 1237+58.46	15'		242W	28800	45'	275		3000	58.2 LT	TYPE III	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_30C530_____.ies
31*	A-2	0715 11211	A 1237+65.51	15'		242W	28800	45'	90		3000	58.54 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	EXISTING	ERL2_30C530_____.ies
32*	A-2	0715 11211	A 1240+23.73	15'		242W	28800	45'	90		3000	58.34 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	EXISTING	ERL2_30C530_____.ies
33*	A-1	0715 11211	A 1240+36.08	15'		242W	28800	45'	270		3000	58.64 LT	TYPE III	SINGLE ARM MOUNT	STANDARD	EXISTING	ERL2_30C530_____.ies
34	A-3	0715 61452	A 1242+68.22	15'		242W	28800	45'	270		3000	58.01 LT	TYPE III	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_30C530_____.ies
35*	A-4	0715 11211	A 1243+50.28	15'		242W	28800	45'	90		3000	58.81 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	EXISTING	ERL2_30C530_____.ies
36	A-3	0715 61452	A 1244+95.84	15'		242W	28800	45'	270		3000	58.48 LT	TYPE III	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_30C530_____.ies
37*	A-4	0715 11211	A 1246+35.86	15'		242W	28800	45'	90		3000	58.15 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	EXISTING	ERL2_30C530_____.ies
38	A-3	0715 62452	A 1246+93.64	15'		242W	28800	45'	270		3000	57.87 LT	TYPE III	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_30C530_____.ies
39*	A-4	0715 11211	A 1248+96.42	15'		242W	28800	45'	90		3000	58.78 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	EXISTING	ERL2_30C530_____.ies
40*	A-3	0715 11211	A 1249+01.33	15'		242W	28800	45'	270		3000	58.65 LT	TYPE III	SINGLE ARM MOUNT	STANDARD	EXISTING	ERL2_30C530_____.ies
41*	A-3	0715 11211	A 1251+72.47	15'		242W	28800	45'	270		3000	58.56 LT	TYPE III	SINGLE ARM MOUNT	STANDARD	EXISTING	ERL2_30C530_____.ies
42*	A-4	0715 11211	A 1251+73.09	15'		242W	28800	45'	90		3000	58.3 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	EXISTING	ERL2_30C530_____.ies
43	B-1	0715 61152	A 1253+29.03	15'		130W	17200	30'	285		3000	58.73 LT	TYPE II	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_18E530_____.ies
44	B-2	0715 66166	A 1253+40.66	16'	15'	130W	17200	30'	90		3000	57.93 RT	TYPE II	SINGLE ARM MOUNT	UTILITY CONFLICT	SPREAD FOOTER	ERL2_18E530_____.ies
45	B-2	0715 66166	A 1255+11.41	16'	15'	130W	17200	30'	90		3000	57.9 RT	TYPE II	SINGLE ARM MOUNT	UTILITY CONFLICT	SPREAD FOOTER	ERL2_18E530_____.ies
46	B-1	0715 62152	A 1255+36.35	15'		130W	17200	30'	270		3000	57.93 LT	TYPE II	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_18E530_____.ies
47	B-2	0715 62152	A 1256+94.02	15'		130W	17200	30'	90		3000	57.97 RT	TYPE II	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_18E530_____.ies
48	B-1	0715 61152	A 1257+08.00	15'		130W	17200	30'	270		3000	57.97 LT	TYPE II	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_18E530_____.ies
49	B-2	0715 62152	A 1258+73.78	15'		130W	17200	30'	90		3000	57.91 RT	TYPE II	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_18E530_____.ies
50	B-1	0715 61152	A 1258+74.79	15'		130W	17200	30'	270		3000	61.42 LT	TYPE II	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_18E530_____.ies
51	B-1	0715 61152	A 1260+39.62	15'		130W	17200	30'	270		3000	57.94 LT	TYPE II	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_18E530_____.ies
52	B-2	0715 62152	A 1260+53.98	15'		130W	17200	30'	90		3000	57.82 RT	TYPE II	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_18E530_____.ies
53	B-1	0715 61152	A 1262+06.99	15'		130W	17200	30'	275		3000	58.55 LT	TYPE II	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_18E530_____.ies
54	B-2	0715 62152	A 1262+27.87	15'		130W	17200	30'	90		3000	57.87 RT	TYPE II	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_18E530_____.ies
55	B-1	0715 62152	A 1263+92.00	15'		130W	17200	30'	270		3000	56.68 LT	TYPE II	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_18E530_____.ies
56	B-2	0715 62152	A 1264+06.30	15'		130W	17200	30'	90		3000	58.47 RT	TYPE II	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_18E530_____.ies
57	B-2	0715 62152	A 1265+70.52	15'		130W	17200	30'	90		3000	57.91 RT	TYPE II	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_18E530_____.ies
58	B-1	0715 62152	A 1265+71.40	15'		130W	17200	30'	270		3000	57.84 LT	TYPE II	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_18E530_____.ies
59	B-2	0715 62152	A 1267+37.49	15'		130W	17200	30'	90		3000	58.02 RT	TYPE II	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_18E530_____.ies
60	B-1	0715 62152	A 1267+44.04	15'		130W	17200	30'	270		3000	57.96 LT	TYPE II	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_18E530_____.ies
61	B-2	0715 62152	A 1269+01.47	15'		130W	17200	30'	90		3000	57.98 RT	TYPE II	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_18E530_____.ies
62	B-1	0715 62152	A 1269+19.82	15'		130W	17200	30'	270		3000	57.85 LT	TYPE II	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_18E530_____.ies
63*	B-2	0715 11211	A 1270+70.94	15'		130W	17200	30'	90		3000	58.57 RT	TYPE II	SINGLE ARM MOUNT	STANDARD	EXISTING	ERL2_18E530_____.ies
64	B-1	0715 62152	A 1270+95.72	15'		130W	17200	30'	270		3000	57.95 LT	TYPE II	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_18E530_____.ies
65	B-2	0715 61152	A 1272+38.82	15'		130W	17200	30'	90		3000	57.79 RT	TYPE II	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_18E530_____.ies
66	B-1	0715 62152	A 1272+66.43	15'		130W	17200	30'	270		3000	58.01 LT	TYPE II	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_18E530_____.ies
67	B-2	0715 62152	A 1274+06.87	15'		130W	17200	30'	90		3000	57.85 RT	TYPE II	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_18E530_____.ies
68*	B-1	0715 11211	A 1274+41.72	15'		130W	17200	30'	270		3000	58.41 LT	TYPE II	SINGLE ARM MOUNT	STANDARD	EXISTING	ERL2_18E530_____.ies
69	B-2	0715 62152	A 1275+76.44	15'		130W	17200	30'	90		3000	57.85 RT	TYPE II	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_18E530_____.ies
70*	B-1	0715 11211	A 1276+17.95	15'		130W	17200	30'	275		3000	58.41 LT	TYPE II	SINGLE ARM MOUNT	STANDARD	EXISTING	ERL2_18E530_____.ies
71	B-2	0715 62152	A 1276+25.55	15'		121W	13820	30'	30		3000	57.95 RT	TYPE IV	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL1_15D530_____-ELSHS-ERL1-BLCK.ies
72	B-2	0715 62111	A 1277+00.04	8'		121W	13820	30'	180		3000	95.63 RT	TYPE IV	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL1_15D530_____-ELSHS-ERL1-BLCK.ies
73	B-1	0715 62111	A 1277+00.22	8'		121W	13820	30'	180		3000	90.01 LT	TYPE IV	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL1_15D530_____-ELSHS-ERL1-BLCK.ies
74	B-2	0715 62111	A 1277+15.55	8'		110W	11190	30'	90		3000	58.1 RT	TYPE II	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL1_14E530_____-ELSHS-ERL1-BLCK.ies

* RETROFITTED FIXTURE (EXISTING POLE TO REMAIN)

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING DATA TABLE AND LEGEND	SHEET NO. L-5
DATE	DESCRIPTION		DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 45	MANATEE	444612-1-52-01		

US 41 (SR 45 / TAMiami TRAIL)

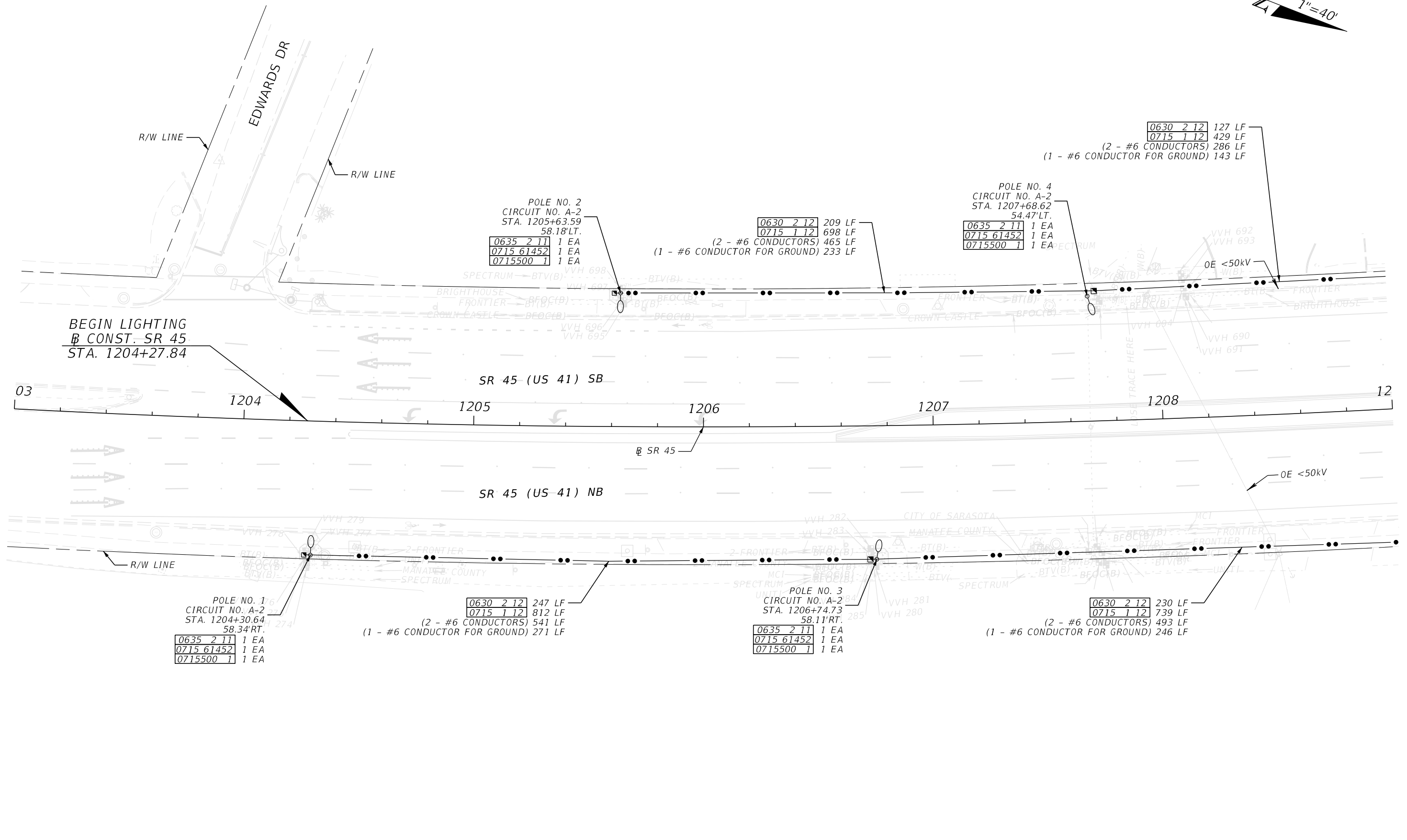
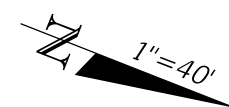
POLE NO.	CIRCUIT	PAY ITEM	STATION	ARM LENGTH	ARM RISE	LUMINAIRE WATTAGE	LUMINAIRE LUMENS	MOUNTING HEIGHT	ROTATION CCW FROM 0 (DEG)	TILT (DEG)	CCT (K)	POLE SETBACK	DISTRIBUTION TYPE	ARM CONFIGURATION	POLE	FOUNDATION	IES FILE NAME
75	B-1	0715 62152	A 1277+21.23	15'		121W	13820	30'	225		3000	57.87 LT	TYPE IV	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL1_15D530_____-ELSHS-ERL1-BLCK.ies
76*	B-1	0715 11211	A 1278+02.79	15'		242W	28800	45'	270		3000	58.32 LT	TYPE III	SINGLE ARM MOUNT	STANDARD	EXISTING	ERL2_30C530_____.ies
77	B-2	0715 62452	A 1279+38.21	15'		242W	28800	45'	90		3000	57.91 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_30C530_____.ies
78	B-1	0715 62452	A 1280+41.39	15'		242W	28800	45'	270		3000	57.92 LT	TYPE III	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_30C530_____.ies
79	B-2	0715 62452	A 1282+12.44	15'		242W	28800	45'	90		3000	57.67 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_30C530_____.ies
80	B-1	0715 62452	A 1283+33.42	15'		242W	28800	45'	270		3000	58.19 LT	TYPE III	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_30C530_____.ies
81	B-2	0715 62452	A 1284+93.19	15'		242W	28800	45'	90		3000	57.7 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_30C530_____.ies
82	B-1	0715 62452	A 1286+04.59	15'		242W	28800	45'	270		3000	58 LT	TYPE III	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_30C530_____.ies
83	B-1	0715 61252	A 1286+50.94	15'		121W	13820	35'	0		3000	85.98 LT	TYPE IV	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL1_15D530_____-ELSHS-ERL1-BLCK.ies
84	B-2	0715 61211	A 1287+03.93	8'		121W	13820	35'	180		3000	93.72 RT	TYPE IV	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL1_15D530_____-ELSHS-ERL1-BLCK.ies
85*	B-2	0715 11211	A 1287+62.22	15'		242W	28800	45'	90		3000	58.52 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	EXISTING	ERL2_30C530_____.ies
86	B-1	0715 62452	A 1288+61.34	15'		242W	28800	45'	270		3000	57.99 LT	TYPE III	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_30C530_____.ies
87	B-2	0715 62452	A 1290+40.32	15'		242W	28800	45'	90		3000	57.74 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_30C530_____.ies
88	B-1	0715 62452	A 1291+53.33	15'		242W	28800	45'	270		3000	58.28 LT	TYPE III	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_30C530_____.ies
89	B-2	0715 62452	A 1293+22.55	15'		242W	28800	45'	90		3000	57.69 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	SPREAD FOOTER	ERL2_30C530_____.ies
90	B-1	0715 61452	A 1294+06.91	15'		242W	28800	45'	270		3000	53.77 LT	TYPE III	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_30C530_____.ies
91	B-4	0715 61211	A 1295+10.90	8'		121W	13820	35'	30		3000	109.17 RT	TYPE IV	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL1_15D530_____-ELSHS-ERL1-BLCK.ies
92	B-1	0715 61211	A 1295+18.62	8'		110W	11190	35'	0		3000	113.27 LT	TYPE II	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL1_14E530_____-ELSHS-ERL1-BLCK.ies
93	B-1	0715 65166	A 1296+06.38	16'	15'	130W	17200	30'	270		3000	58.07 LT	TYPE II	SINGLE ARM MOUNT	UTILITY CONFLICT	STANDARD CYLINDRICAL	ERL2_18E530_____.ies
94	B-4	0715 61452	A 1297+13.37	15'		242W	28800	45'	90		3000	56.32 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_30C530_____.ies
95	B-3	0715 65166	A 1298+28.58	16'	15'	130W	17200	30'	270		3000	55.96 LT	TYPE II	SINGLE ARM MOUNT	UTILITY CONFLICT	STANDARD CYLINDRICAL	ERL2_18E530_____.ies
96	B-4	0715 61452	A 1299+38.71	15'		242W	28800	45'	90		3000	56.81 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_30C530_____.ies
97	B-3	0715 65166	A 1300+86.41	16'	15'	130W	17200	30'	270		3000	55.14 LT	TYPE II	SINGLE ARM MOUNT	UTILITY CONFLICT	STANDARD CYLINDRICAL	ERL2_18E530_____.ies
98	B-4	0715 61452	A 1301+68.93	15'		242W	28800	45'	90		3000	56.26 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_30C530_____.ies
99	B-3	0715 65166	A 1303+51.40	16'	15'	130W	17200	30'	270		3000	54.98 LT	TYPE II	SINGLE ARM MOUNT	UTILITY CONFLICT	STANDARD CYLINDRICAL	ERL2_18E530_____.ies
100	B-4	0715 61452	A 1304+01.23	15'		242W	28800	45'	90		3000	56.02 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_30C530_____.ies
101	B-4	0715 61452	A 1305+53.55	15'		242W	28800	45'	90		3000	55.97 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_30C530_____.ies
102	B-3	0715 66166	A 1306+43.82	16'	15'	130W	17200	30'	270		3000	55.18 LT	TYPE II	SINGLE ARM MOUNT	UTILITY CONFLICT	SPREAD FOOTER	ERL2_18E530_____.ies
103	B-4	0715 61452	A 1307+80.41	15'		242W	28800	45'	90		3000	54.79 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_30C530_____.ies
104	B-3	0715 65166	A 1309+30.45	16'	15'	130W	17200	30'	270		3000	54.42 LT	TYPE II	SINGLE ARM MOUNT	UTILITY CONFLICT	STANDARD CYLINDRICAL	ERL2_18E530_____.ies
105	B-4	0715 61452	A 1310+03.93	15'		242W	28800	45'	90		3000	54.18 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_30C530_____.ies
106	B-4	0715 61452	A 1311+78.32	15'		242W	28800	45'	90		3000	54.79 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	STANDARD CYLINDRICAL	ERL2_30C530_____.ies
107	B-3	0715 65166	A 1312+88.75	16'	15'	130W	17200	30'	270		3000	53.3 LT	TYPE II	SINGLE ARM MOUNT	UTILITY CONFLICT	STANDARD CYLINDRICAL	ERL2_18E530_____.ies
108*	B-4	0715 11211	A 1313+96.01	15'		242W	28800	45'	90		3000	54.95 RT	TYPE III	SINGLE ARM MOUNT	STANDARD	EXISTING	ERL2_30C530_____.ies

* RETROFITTED FIXTURE (EXISTING POLE TO REMAIN)

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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	ISAMARIE L. MONREAL LICENSE NUMBER: 72029 FLORIDA DEPT. OF TRANSPORTATION 801 N. BROADWAY AVENUE BARTOW, FL 33830-3809		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-6
						SR 45	MANATEE	444612-1-52-01		

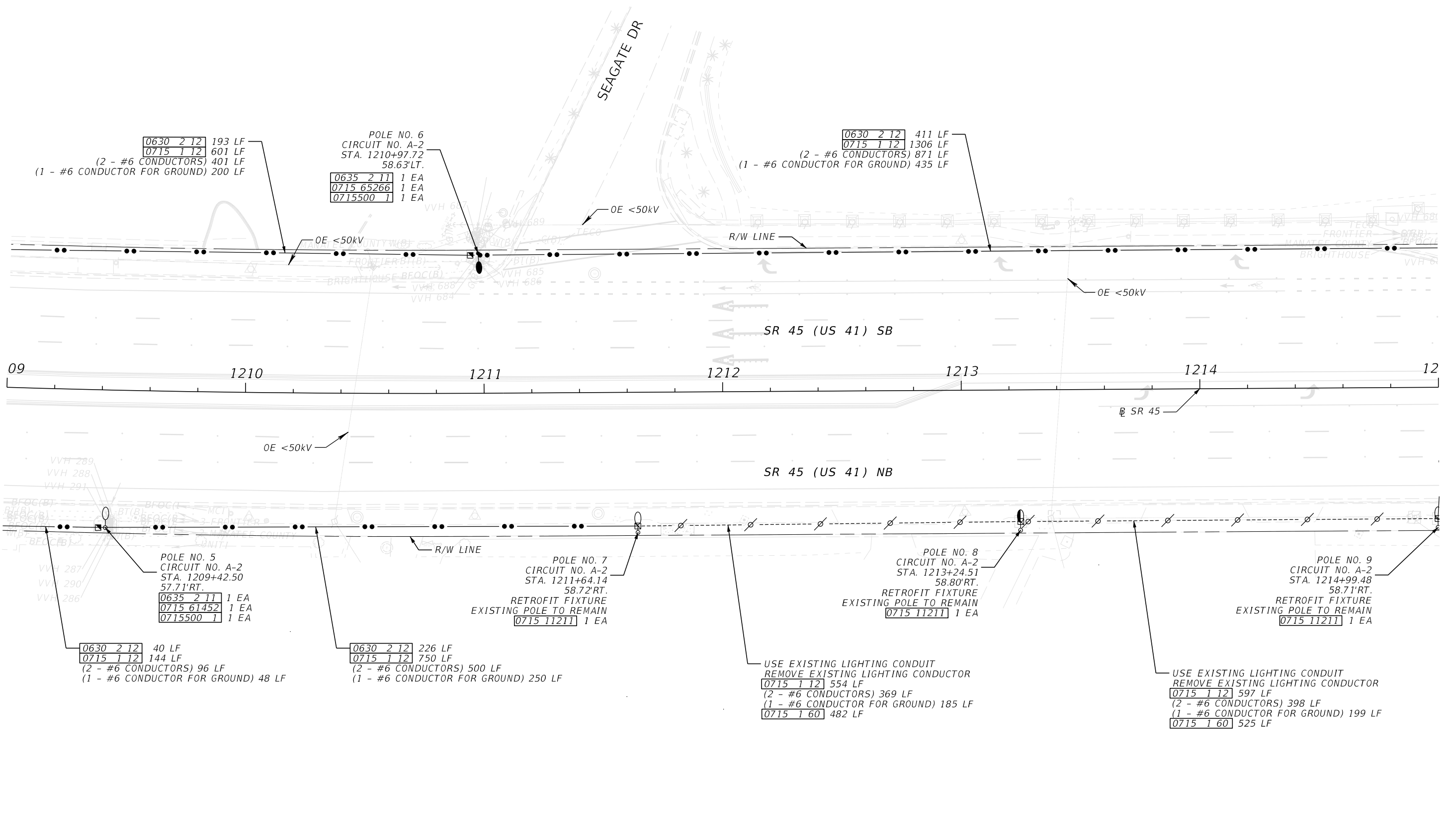
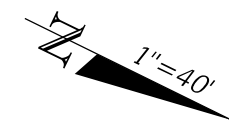


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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ISAMARIE L. MONREAL LICENSE NUMBER: 72029 FLORIDA DEPT. OF TRANSPORTATION 801 N. BROADWAY AVENUE BARTOW, FL 33830-3809		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 45	MANATEE	444612-1-52-01	L-7

LIGHTING PLAN

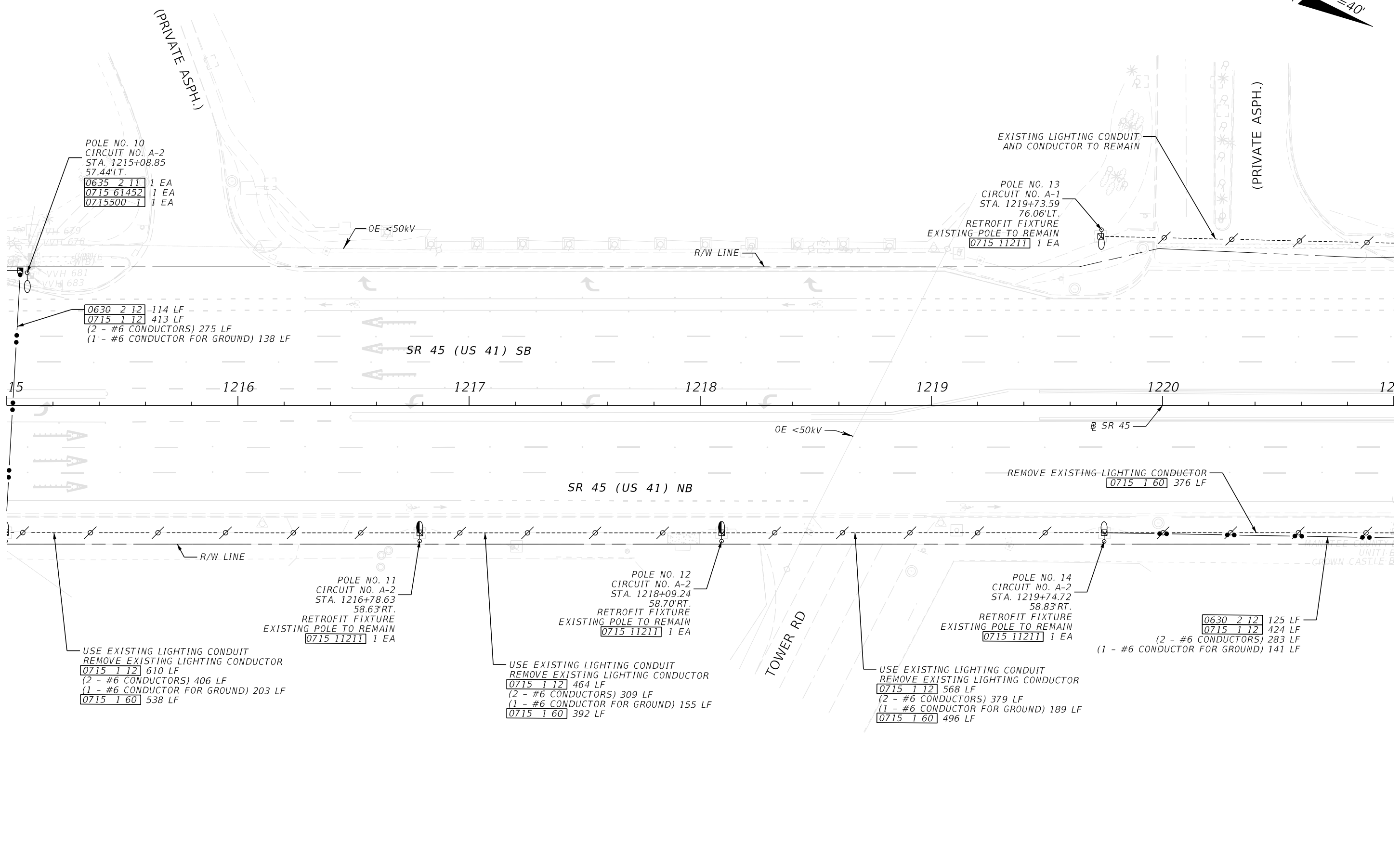
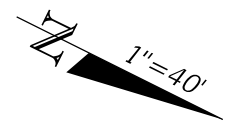
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ISAMARIE L. MONREAL LICENSE NUMBER: 72029 FLORIDA DEPT. OF TRANSPORTATION 801 N. BROADWAY AVENUE BARTOW, FL 33830-3809		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 45	MANATEE	444612-1-52-01	
LIGHTING PLAN									L-8



POLE NO. 10
CIRCUIT NO. A-2
STA. 1215+08.85
57.44'LT.
0635 2 11 1 EA
0715 61452 1 EA
0715500 1 1 EA

0630 2 12 114 LF
0715 1 12 413 LF
(2 - #6 CONDUCTORS) 275 LF
(1 - #6 CONDUCTOR FOR GROUND) 138 LF

POLE NO. 13
CIRCUIT NO. A-1
STA. 1219+73.59
76.06'LT.
RETROFIT FIXTURE
EXISTING POLE TO REMAIN
0715 11211 1 EA

POLE NO. 11
CIRCUIT NO. A-2
STA. 1216+78.63
58.63'RT.
RETROFIT FIXTURE
EXISTING POLE TO REMAIN
0715 11211 1 EA

POLE NO. 12
CIRCUIT NO. A-2
STA. 1218+09.24
58.70'RT.
RETROFIT FIXTURE
EXISTING POLE TO REMAIN
0715 11211 1 EA

POLE NO. 14
CIRCUIT NO. A-2
STA. 1219+74.72
58.83'RT.
RETROFIT FIXTURE
EXISTING POLE TO REMAIN
0715 11211 1 EA

USE EXISTING LIGHTING CONDUIT
REMOVE EXISTING LIGHTING CONDUCTOR
0715 1 12 610 LF
(2 - #6 CONDUCTORS) 406 LF
(1 - #6 CONDUCTOR FOR GROUND) 203 LF
0715 1 60 538 LF

USE EXISTING LIGHTING CONDUIT
REMOVE EXISTING LIGHTING CONDUCTOR
0715 1 12 464 LF
(2 - #6 CONDUCTORS) 309 LF
(1 - #6 CONDUCTOR FOR GROUND) 155 LF
0715 1 60 392 LF

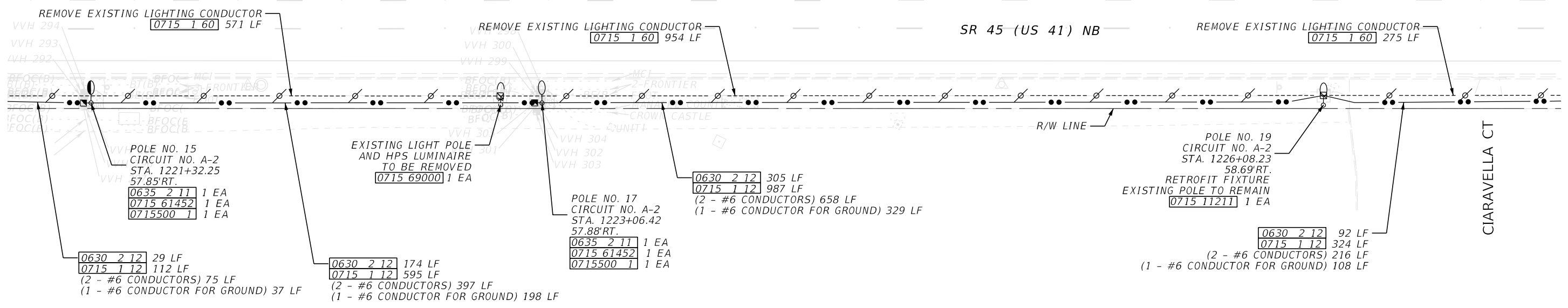
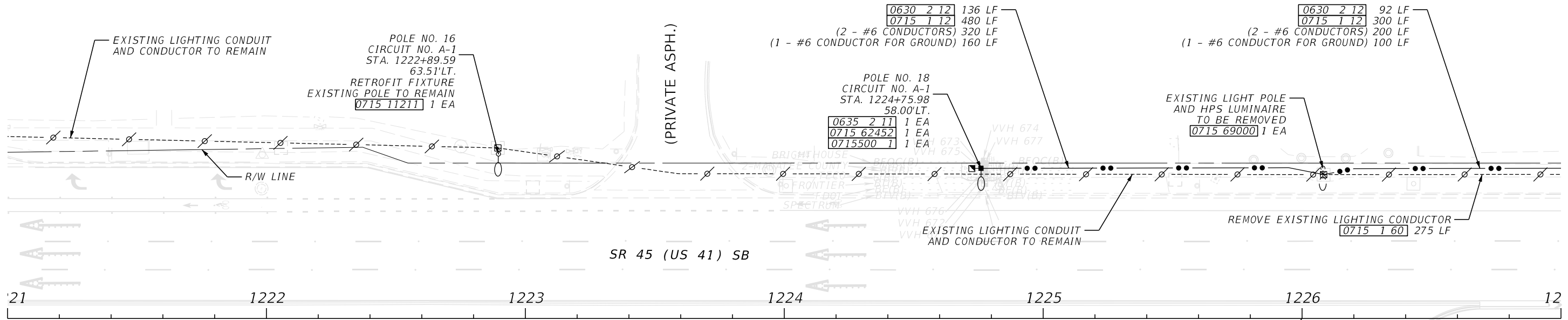
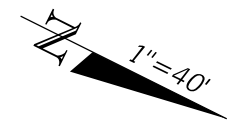
USE EXISTING LIGHTING CONDUIT
REMOVE EXISTING LIGHTING CONDUCTOR
0715 1 12 568 LF
(2 - #6 CONDUCTORS) 379 LF
(1 - #6 CONDUCTOR FOR GROUND) 189 LF
0715 1 60 496 LF

0630 2 12 125 LF
0715 1 12 424 LF
(2 - #6 CONDUCTORS) 283 LF
(1 - #6 CONDUCTOR FOR GROUND) 141 LF

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REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ISAMARIE L. MONREAL LICENSE NUMBER: 72029 FLORIDA DEPT. OF TRANSPORTATION 801 N. BROADWAY AVENUE BARTOW, FL 33830-3809			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 45	MANATEE	444612-1-52-01	LIGHTING PLAN			
										L-9

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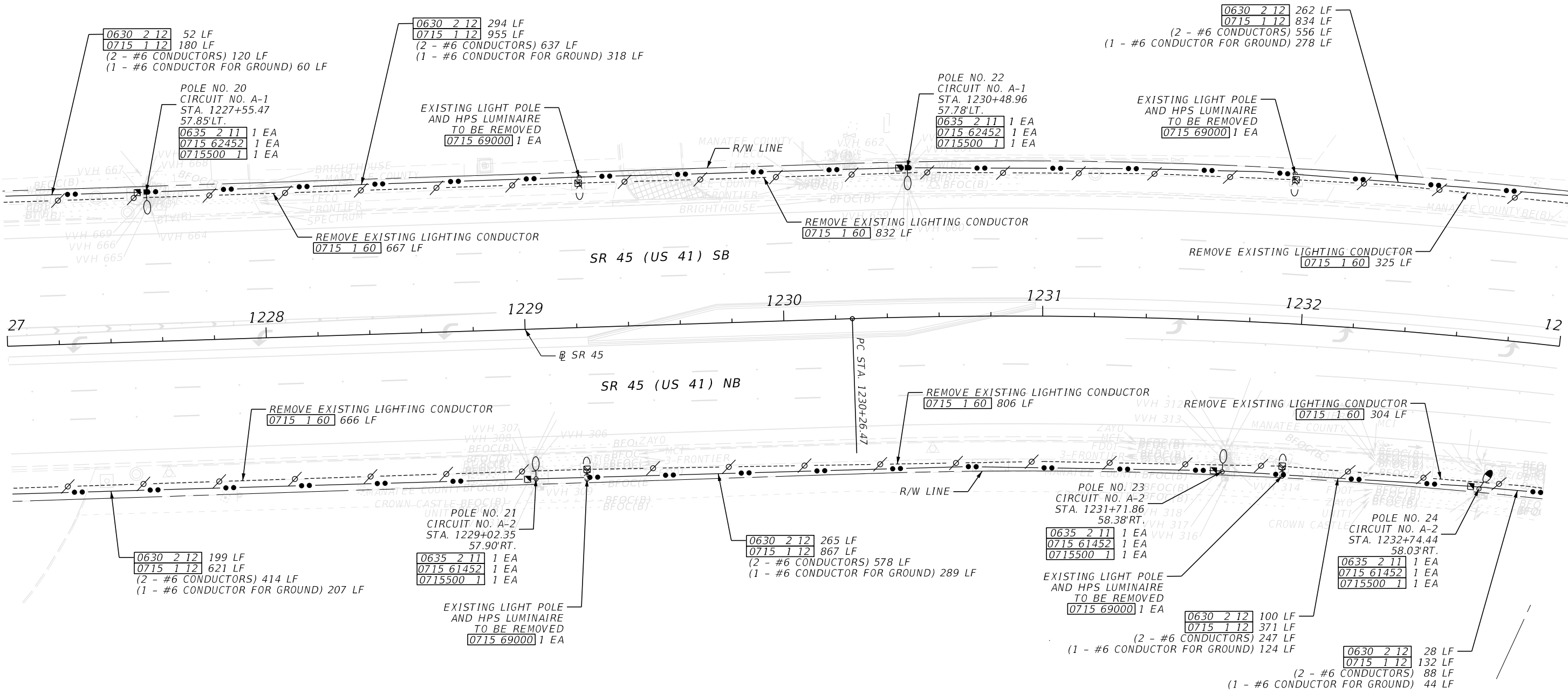
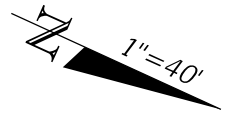


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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				ISAMARIE L. MONREAL LICENSE NUMBER: 72029 FLORIDA DEPT. OF TRANSPORTATION 801 N. BROADWAY AVENUE BARTOW, FL 33830-3809		SR 45	MANATEE	444612-1-52-01	L-10

LIGHTING PLAN

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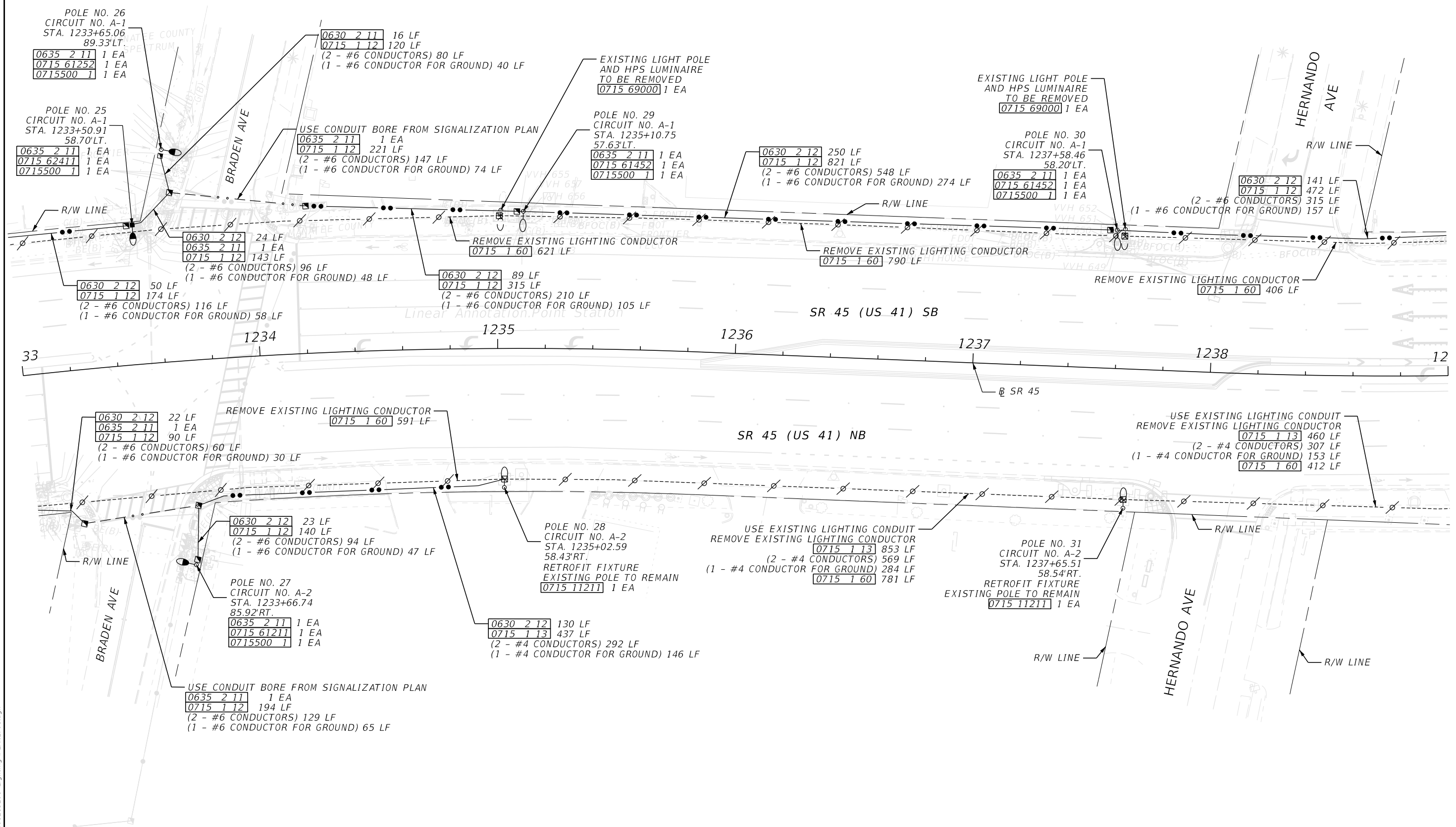
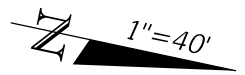
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REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ISAMARIE L. MONREAL LICENSE NUMBER: 72029 FLORIDA DEPT. OF TRANSPORTATION 801 N. BROADWAY AVENUE BARTOW, FL 33830-3809			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
							SR 45	MANATEE	444612-1-52-01	

LIGHTING PLAN

L-11

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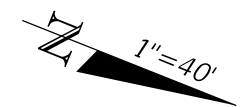


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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ISAMARIE L. MONREAL LICENSE NUMBER: 72029 FLORIDA DEPT. OF TRANSPORTATION 801 N. BROADWAY AVENUE BARTOW, FL 33830-3809		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
								SR 45	MANATEE

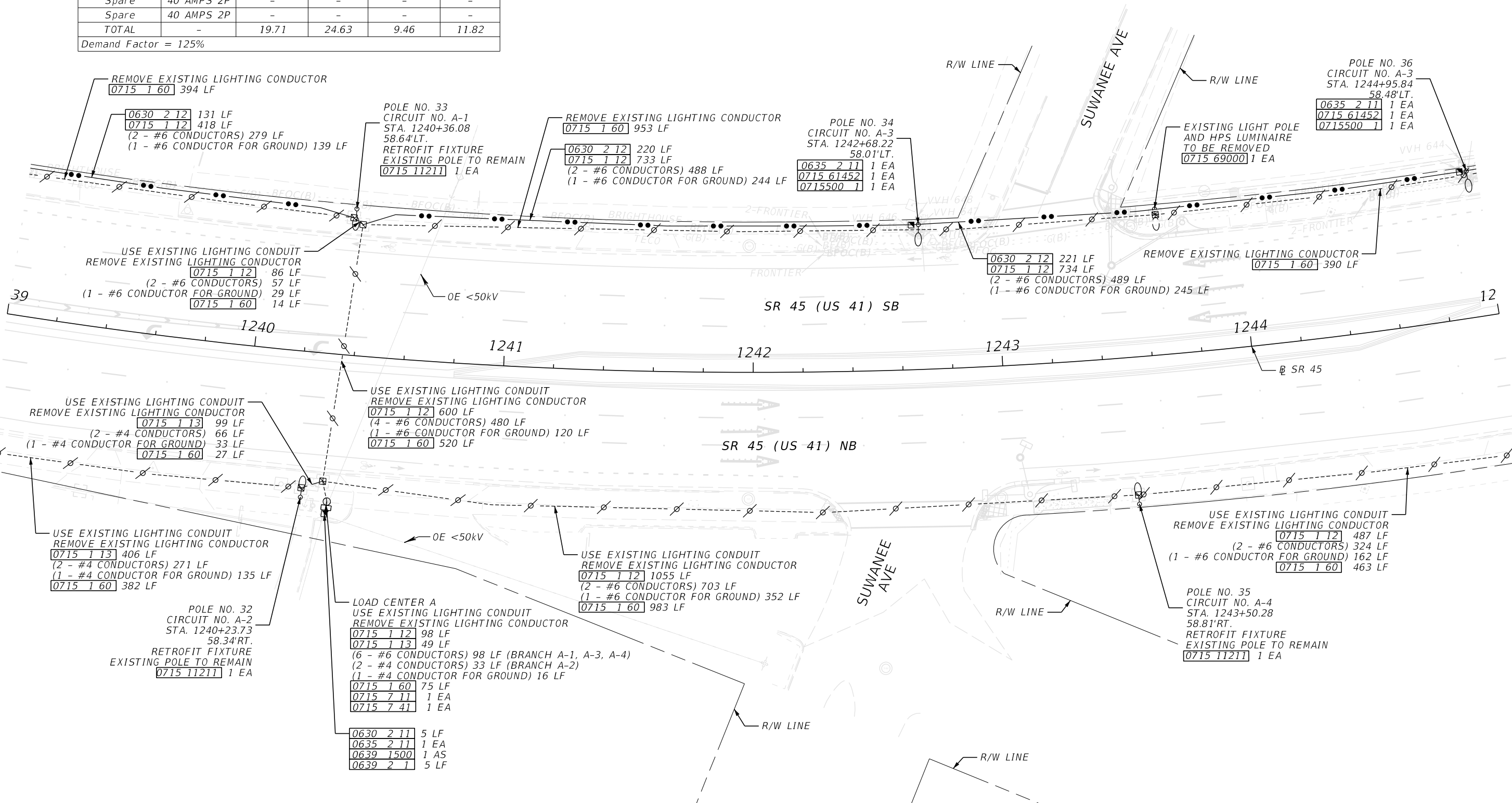
LIGHTING PLAN

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PROPOSED LOAD CENTER A 240/480V, 1 PHASE, 3 WIRE, 3P-100 AMP MAIN CIRCUIT BREAKER					
LOAD CENTER AND CIRCUIT	CIRCUIT BREAKER	CONNECTED (AMPS)	DEMAND (AMPS)	CONNECTED (KVA)	DEMAND (KVA)
A-1	40 AMPS 2P	4.49	5.61	2.16	2.70
A-2	40 AMPS 2P	10.68	13.35	5.13	6.41
A-3	40 AMPS 2P	2.52	3.15	1.21	1.51
A-4	40 AMPS 2P	2.02	2.52	0.97	1.21
Spare	40 AMPS 2P	-	-	-	-
Spare	40 AMPS 2P	-	-	-	-
TOTAL	-	19.71	24.63	9.46	11.82

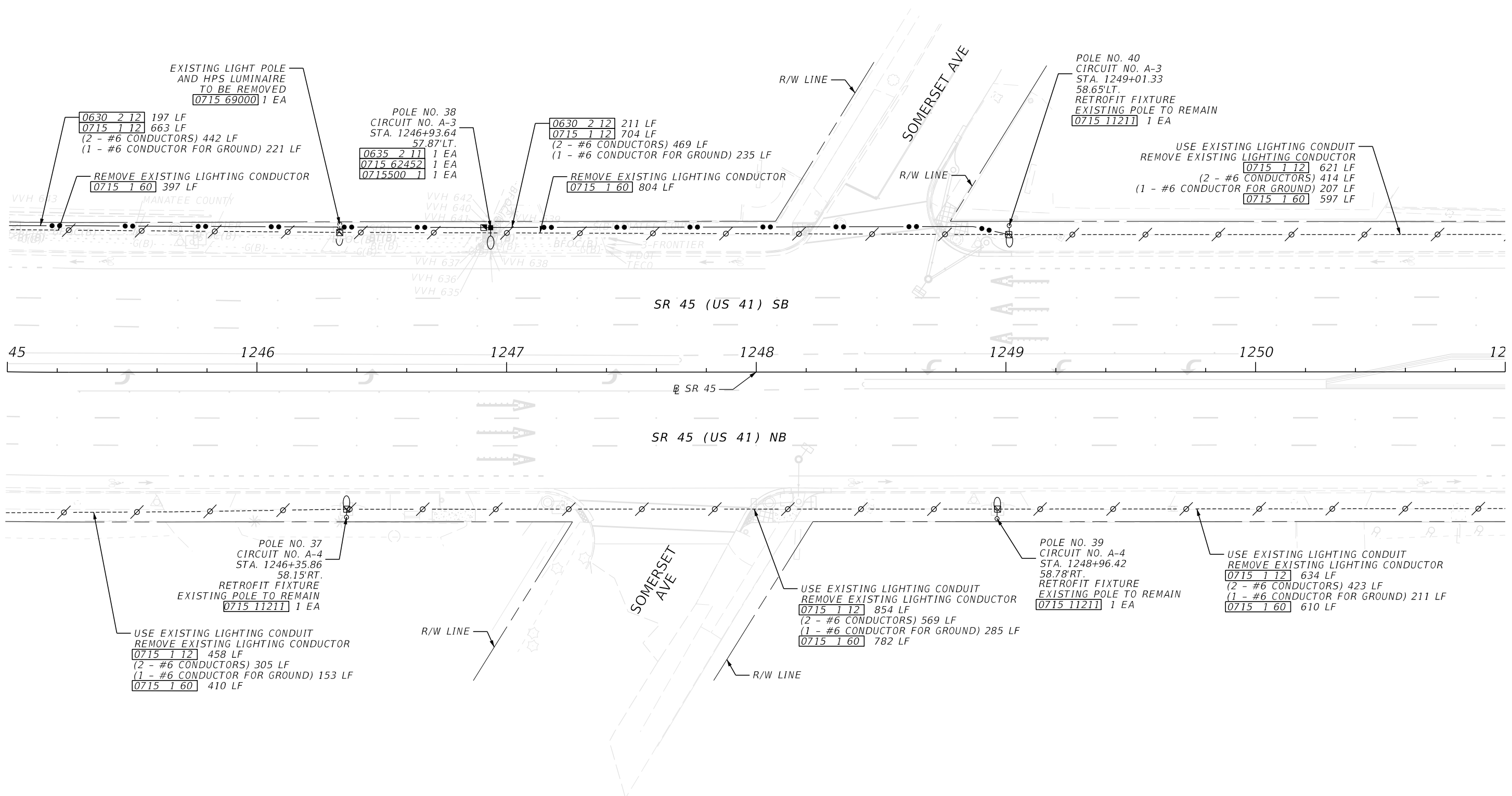
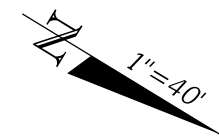
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5/22/2024 7:14:07 AM RD1525M C:\p\ro\ecis\FDOT\44461215201\Lighting\PLAN\LT01.dgn

REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-13
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 45	MANATEE	444612-1-52-01	

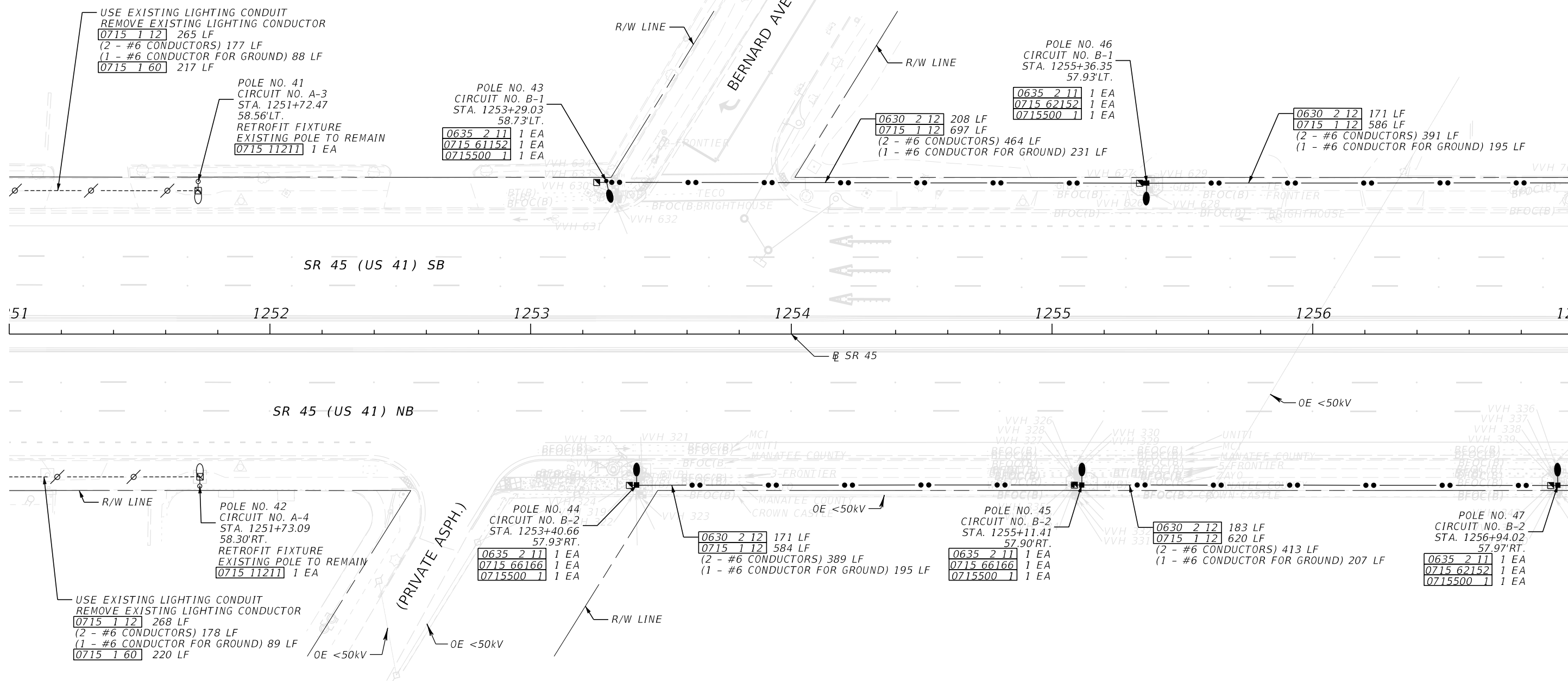
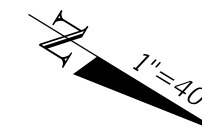
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5/22/2024 7:14:08 AM RD1525M
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REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ISAMARIE L. MONREAL LICENSE NUMBER: 72029 FLORIDA DEPT. OF TRANSPORTATION 801 N. BROADWAY AVENUE BARTOW, FL 33830-3809			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 45	MANATEE	444612-1-52-01	LIGHTING PLAN			
										L-14

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5/22/2024 7:14:09 AM RD1525M C:\pro\jects\FDOT\44461215201\Lighting\PLAN\L101.dgn

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

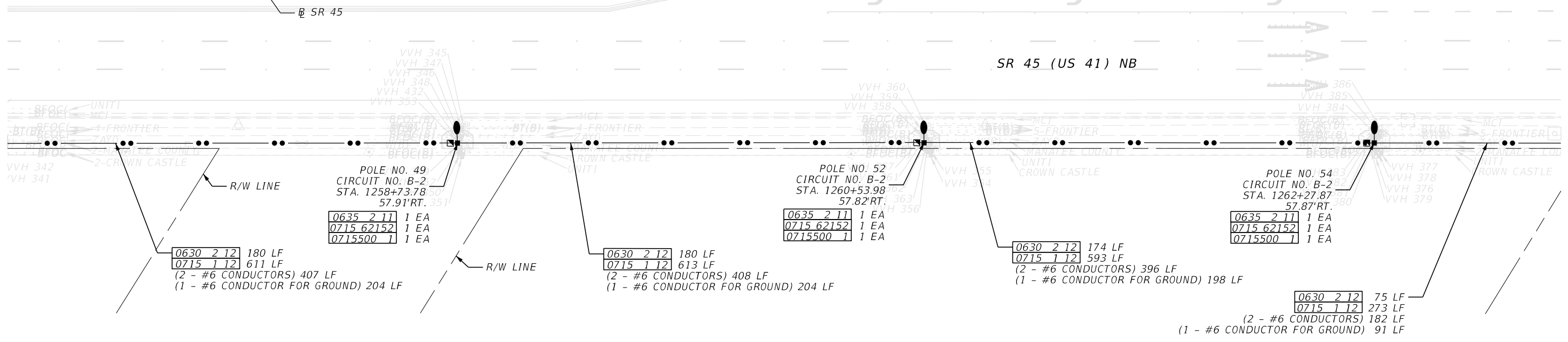
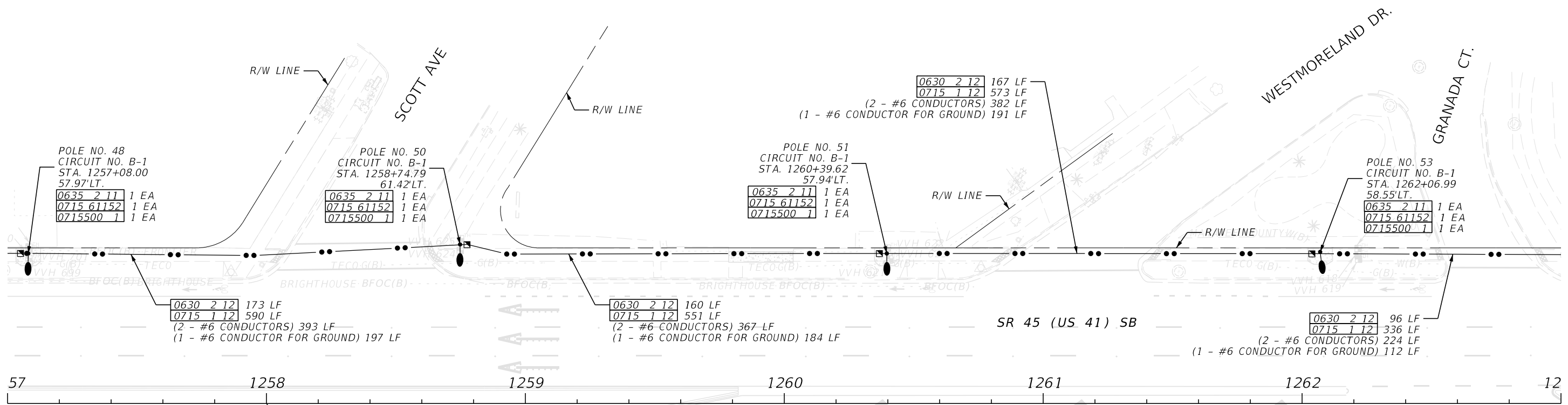
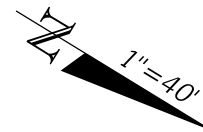
ENGINEER OF RECORD
ISAMARIE L. MONREAL
LICENSE NUMBER: 72029
FLORIDA DEPT. OF TRANSPORTATION
801 N. BROADWAY AVENUE
BARTOW, FL 33830-3809

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 45	MANATEE	444612-1-52-01

LIGHTING PLAN

SHEET NO.
L-15

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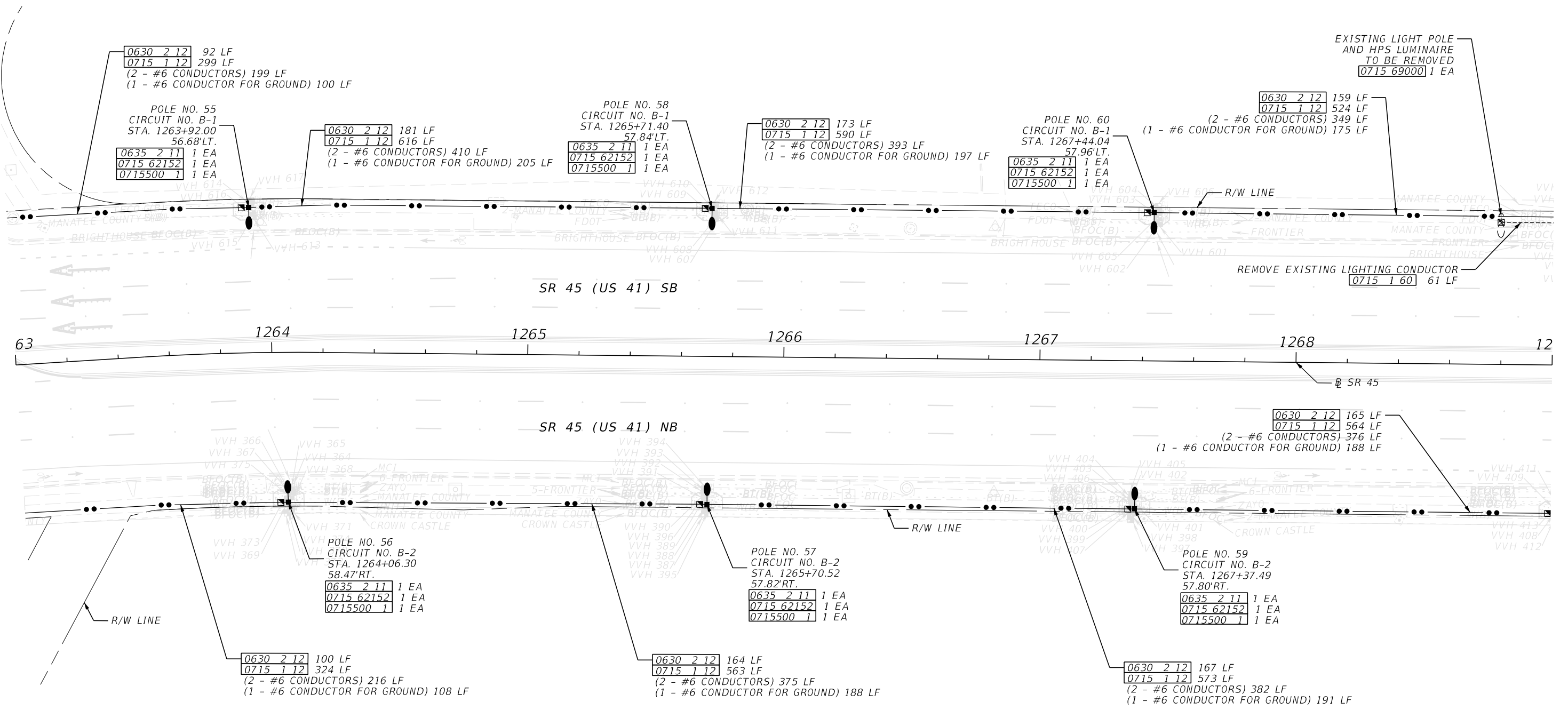
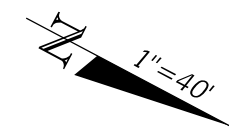
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REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ISAMARIE L. MONREAL LICENSE NUMBER: 72029 FLORIDA DEPT. OF TRANSPORTATION 801 N. BROADWAY AVENUE BARTOW, FL 33830-3809			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
							SR 45	MANATEE	444612-1-52-01	

LIGHTING PLAN

L-16

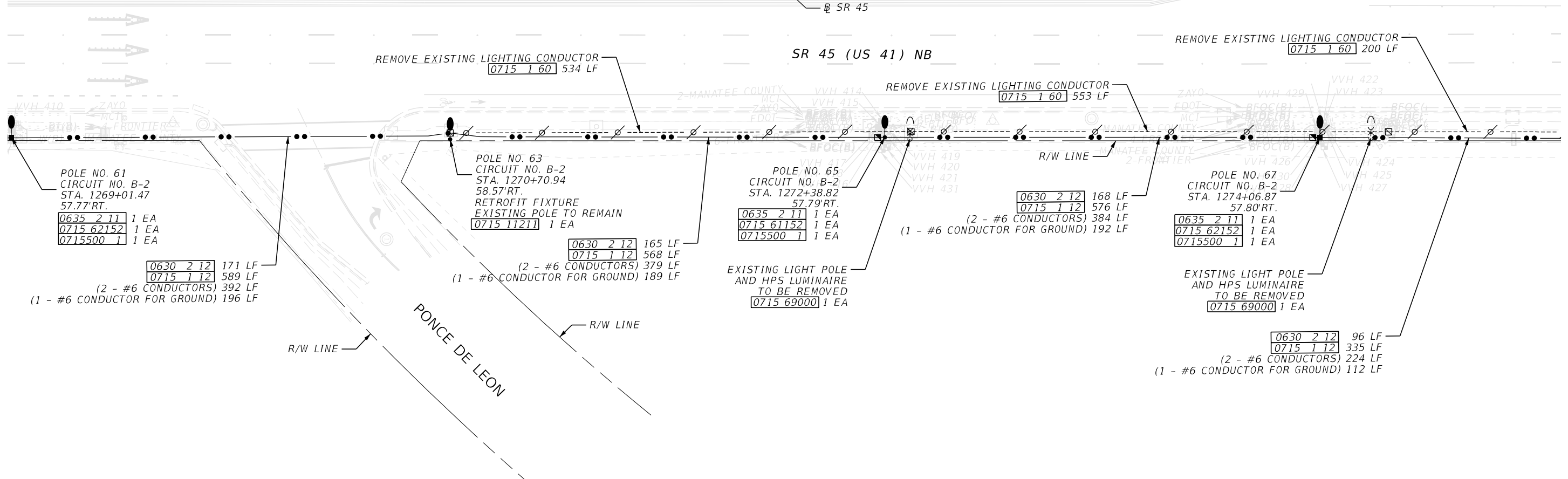
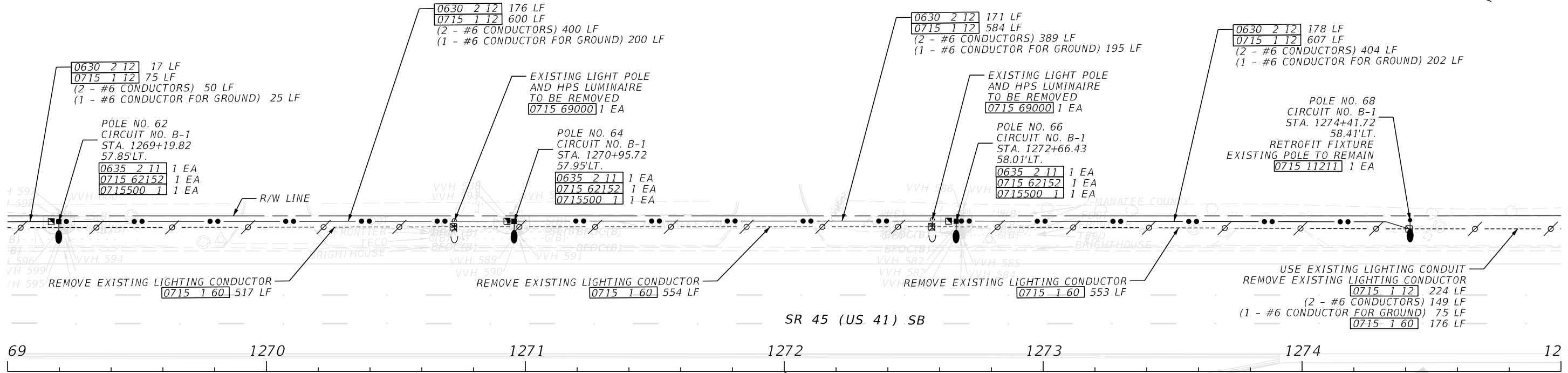
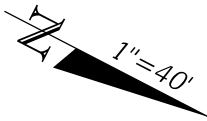
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



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REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ISAMARIE L. MONREAL LICENSE NUMBER: 72029 FLORIDA DEPT. OF TRANSPORTATION 801 N. BROADWAY AVENUE BARTOW, FL 33830-3809			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 45	MANATEE	444612-1-52-01	LIGHTING PLAN			
										L-17

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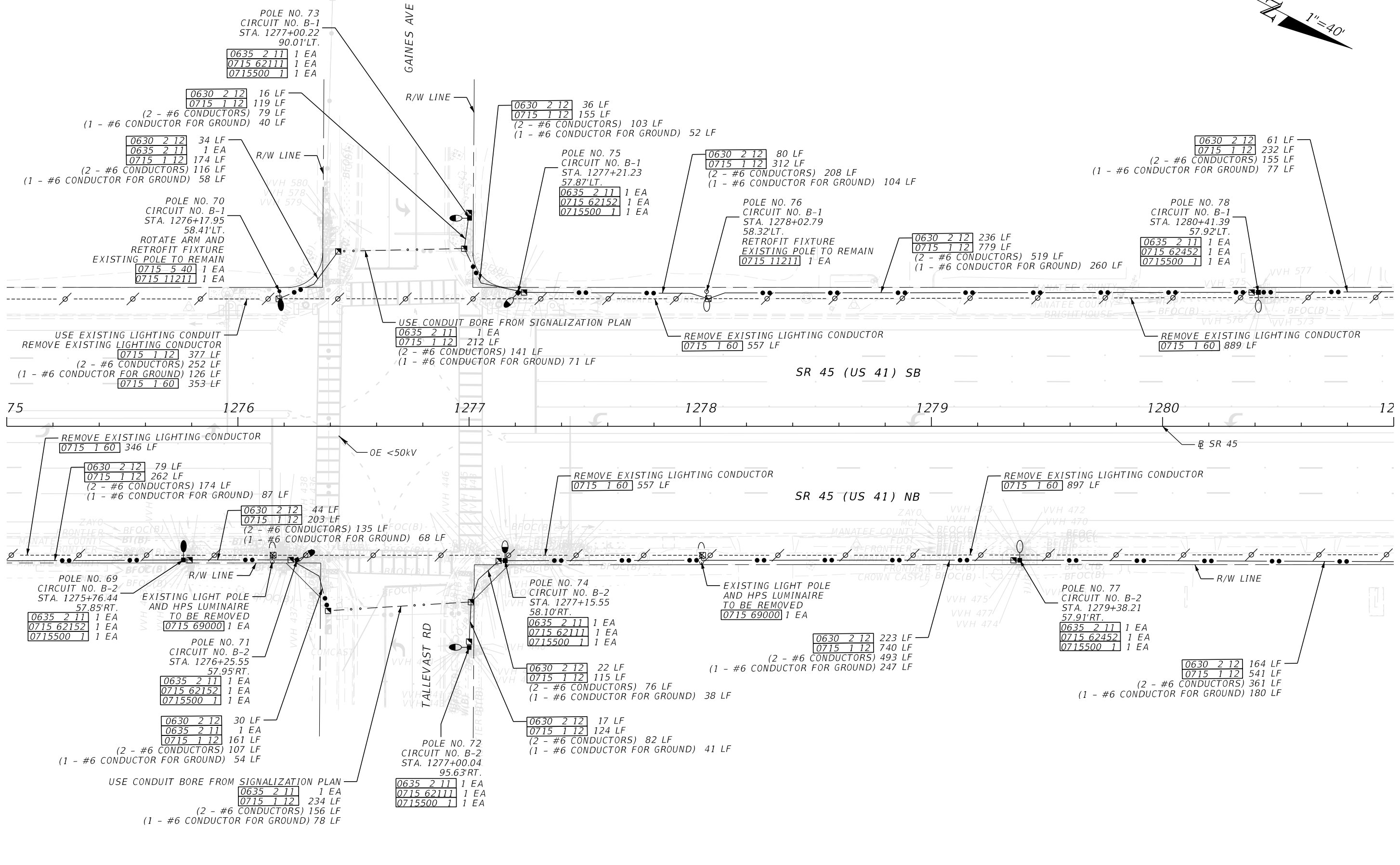
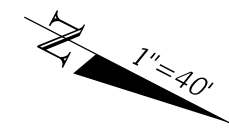


5/22/2024 7:14:12 AM RD1525M C:\p\projects\44461215201\Lighting\PLAN\LT01.dgn

REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 45	MANATEE	444612-1-52-01	L-18

LIGHTING PLAN

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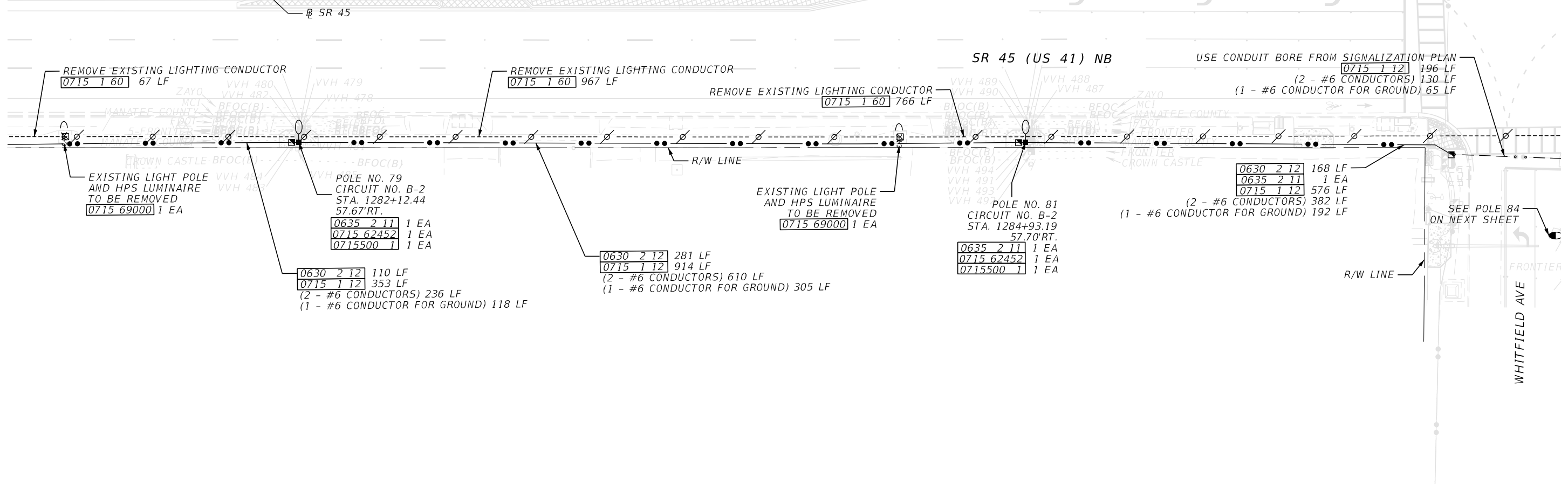
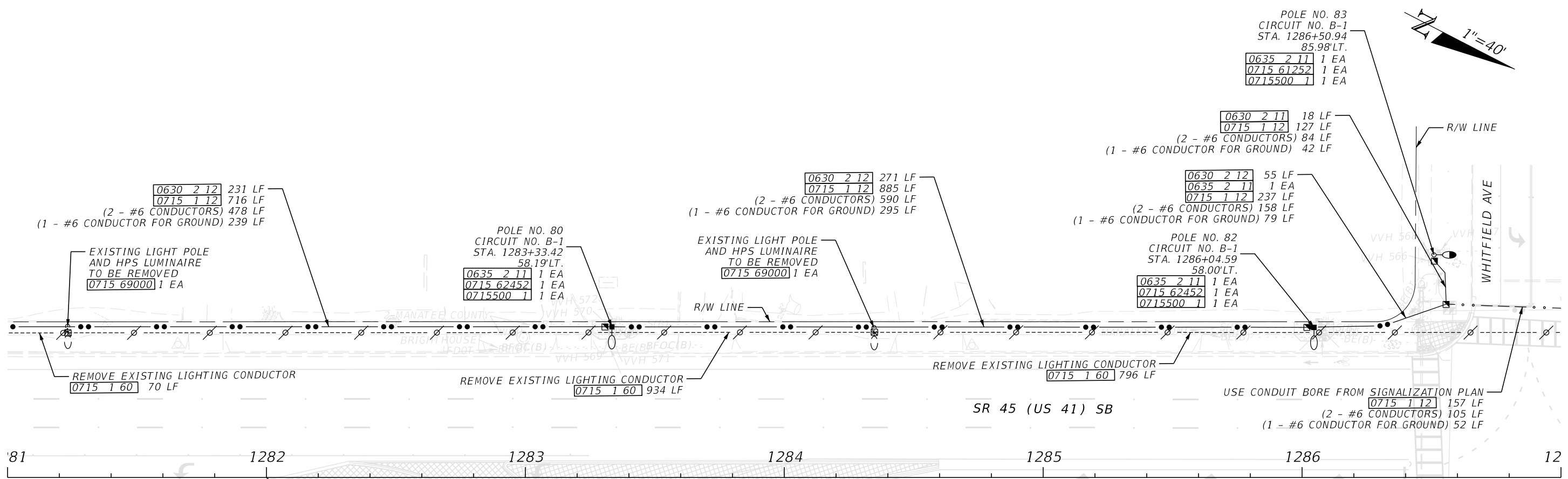
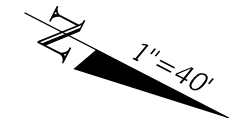


5/22/2024 7:14:13 AM RD1525M C:\proj\lectis\FDOT_44461215201\Lighting\PLAN\LT01.dgn

REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
			ISAMARIE L. MONREAL LICENSE NUMBER: 72029 FLORIDA DEPT. OF TRANSPORTATION 801 N. BROADWAY AVENUE BARTOW, FL 33830-3809	SR 45	MANATEE	444612-1-52-01	L-19

LIGHTING PLAN

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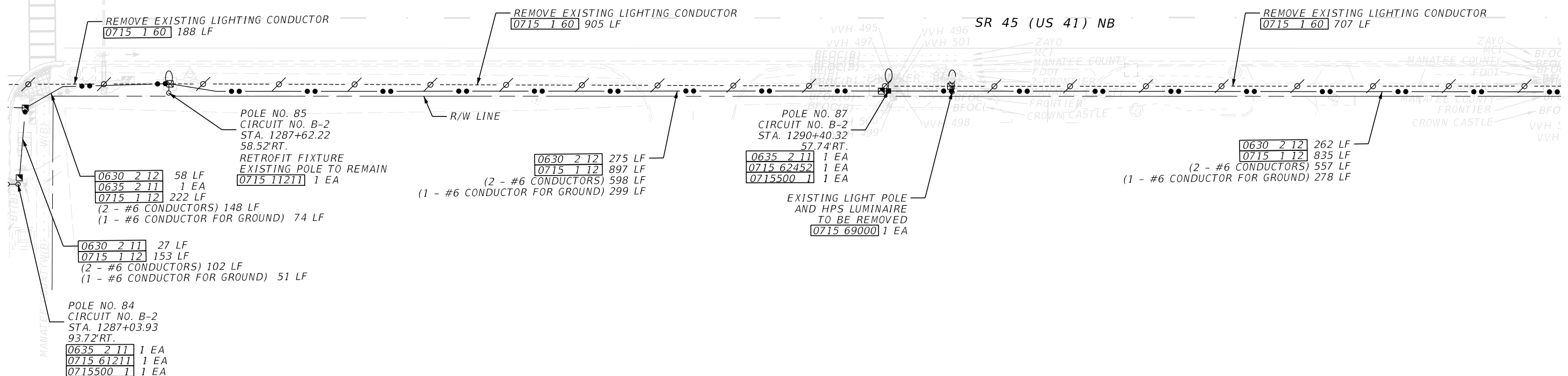
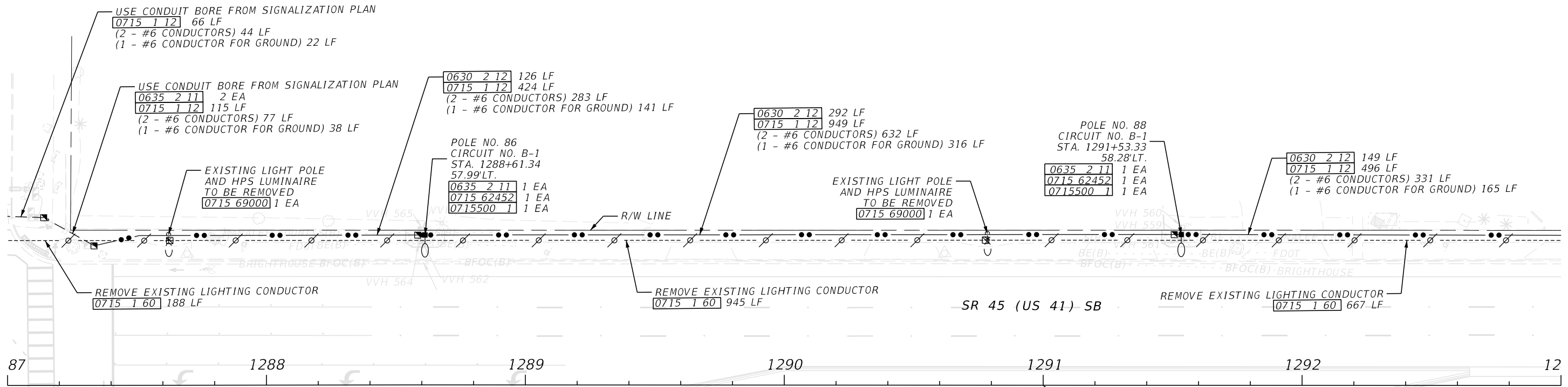
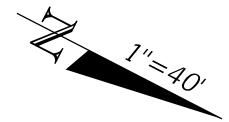


5/22/2024 7:14:14 AM RD152SM C:\p\ro\lects\FDOT\44461215201\Lighting\PLAN\L101.dgn

REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				ISAMARIE L. MONREAL LICENSE NUMBER: 72029 FLORIDA DEPT. OF TRANSPORTATION 801 N. BROADWAY AVENUE BARTOW, FL 33830-3809			SR 45	MANATEE	444612-1-52-01	L-20

LIGHTING PLAN

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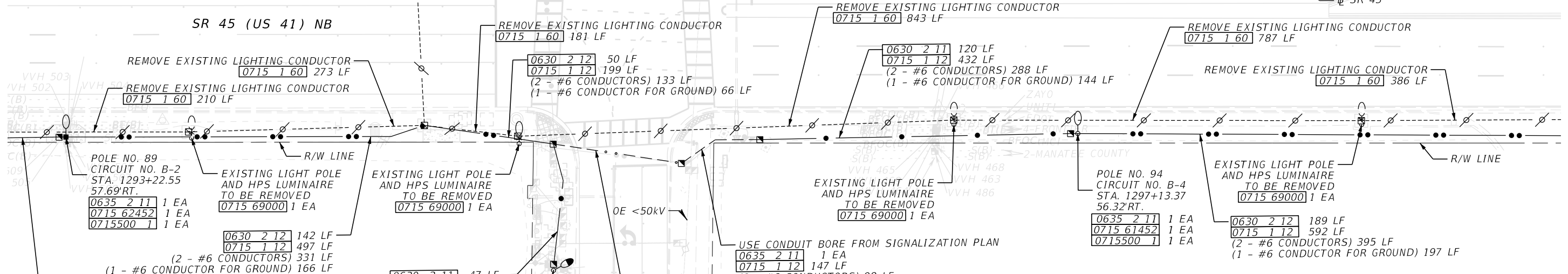
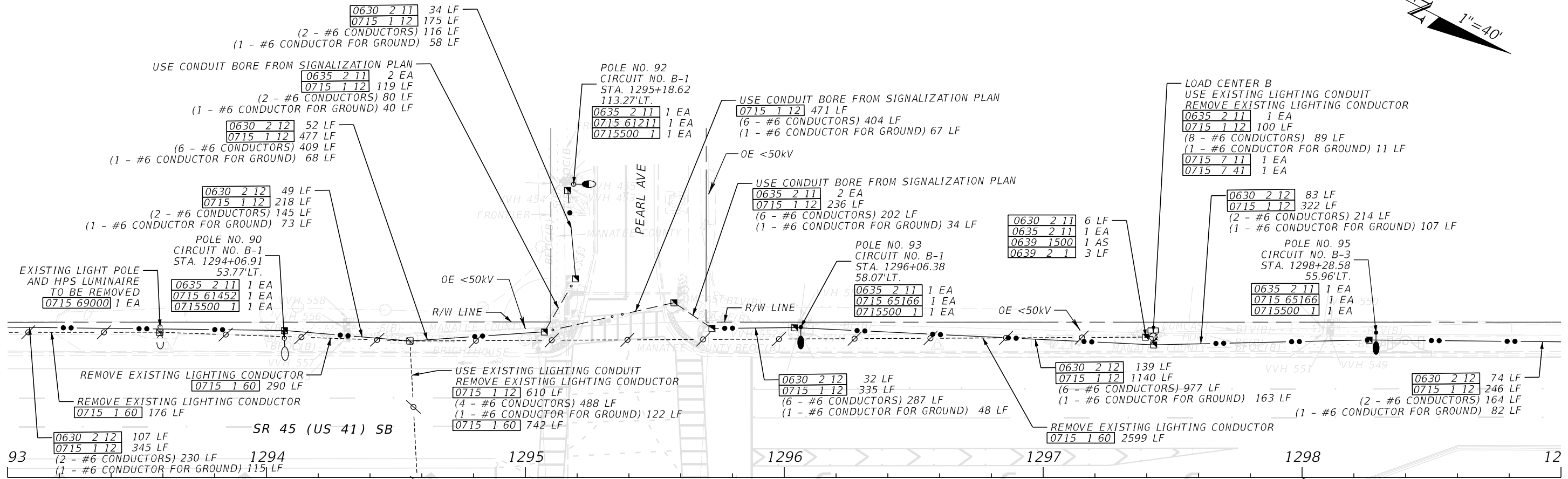
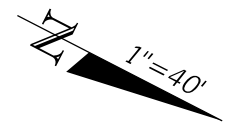


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REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
			ISAMARIE L. MONREAL LICENSE NUMBER: 72029 FLORIDA DEPT. OF TRANSPORTATION 801 N. BROADWAY AVENUE BARTOW, FL 33830-3809	SR 45	MANATEE	444612-152-01	L-21

LIGHTING PLAN

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PROPOSED LOAD CENTER B 240/480V, 1 PHASE, 3 WIRE, 2P-100 AMP MAIN CIRCUIT BREAKER					
LOAD CENTER AND CIRCUIT	CIRCUIT BREAKER	CONNECTED (AMPS)	DEMAND (AMPS)	CONNECTED (KVA)	DEMAND (KVA)
A-1	40 AMPS 2P	8.58	10.72	4.12	5.15
A-2	40 AMPS 2P	7.80	9.75	3.75	4.68
A-3	40 AMPS 2P	1.63	2.03	0.78	0.98
A-4	40 AMPS 2P	4.79	5.99	2.30	2.87
Spare	40 AMPS 2P	-	-	-	-
Spare	40 AMPS 2P	-	-	-	-
TOTAL		22.79	28.49	10.94	13.68

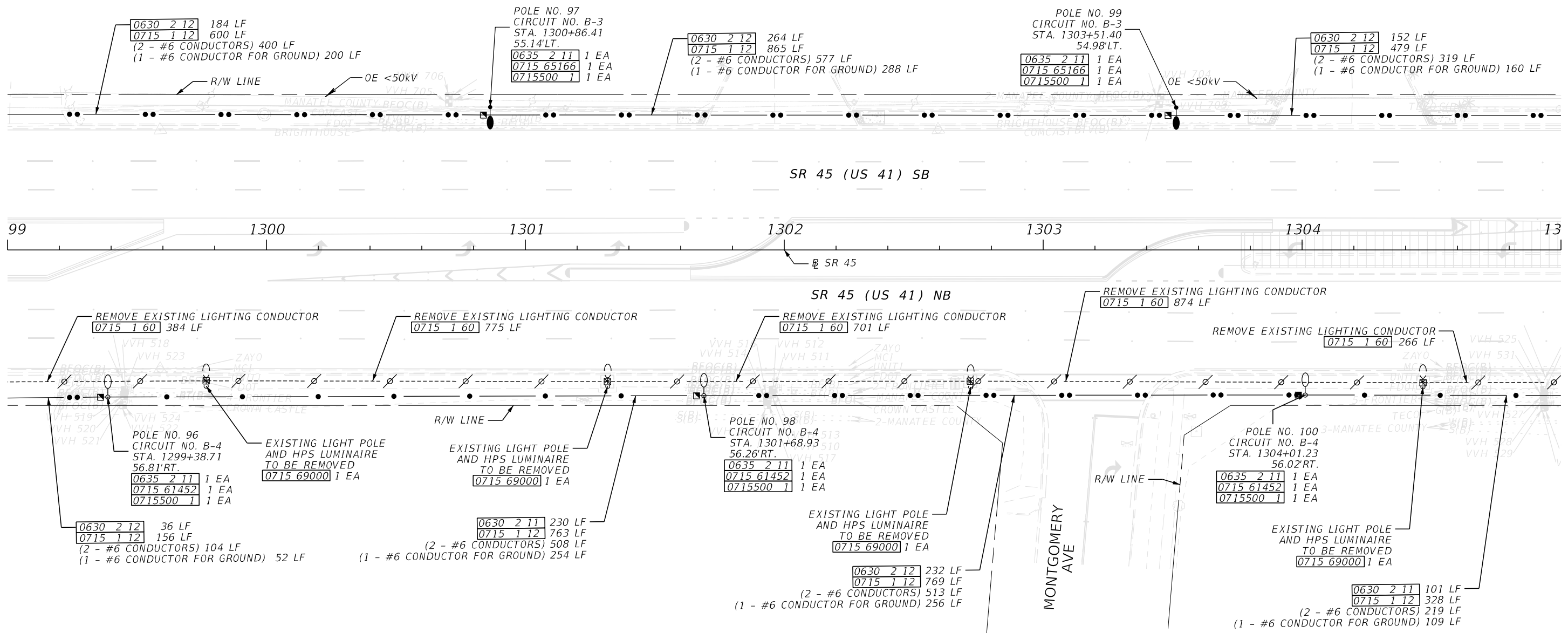
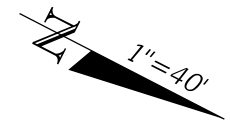
Demand Factor = 125%

5/22/2024 7:14:17 AM RD1525M C:\p\projects\DOT\44461215201\Lighting\PLAN\LT01.dgn

REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
			ISAMARIE L. MONREAL LICENSE NUMBER: 72029 FLORIDA DEPT. OF TRANSPORTATION 801 N. BROADWAY AVENUE BARTOW, FL 33830-3809	SR 45	MANATEE	444612-1-52-01	L-22

LIGHTING PLAN

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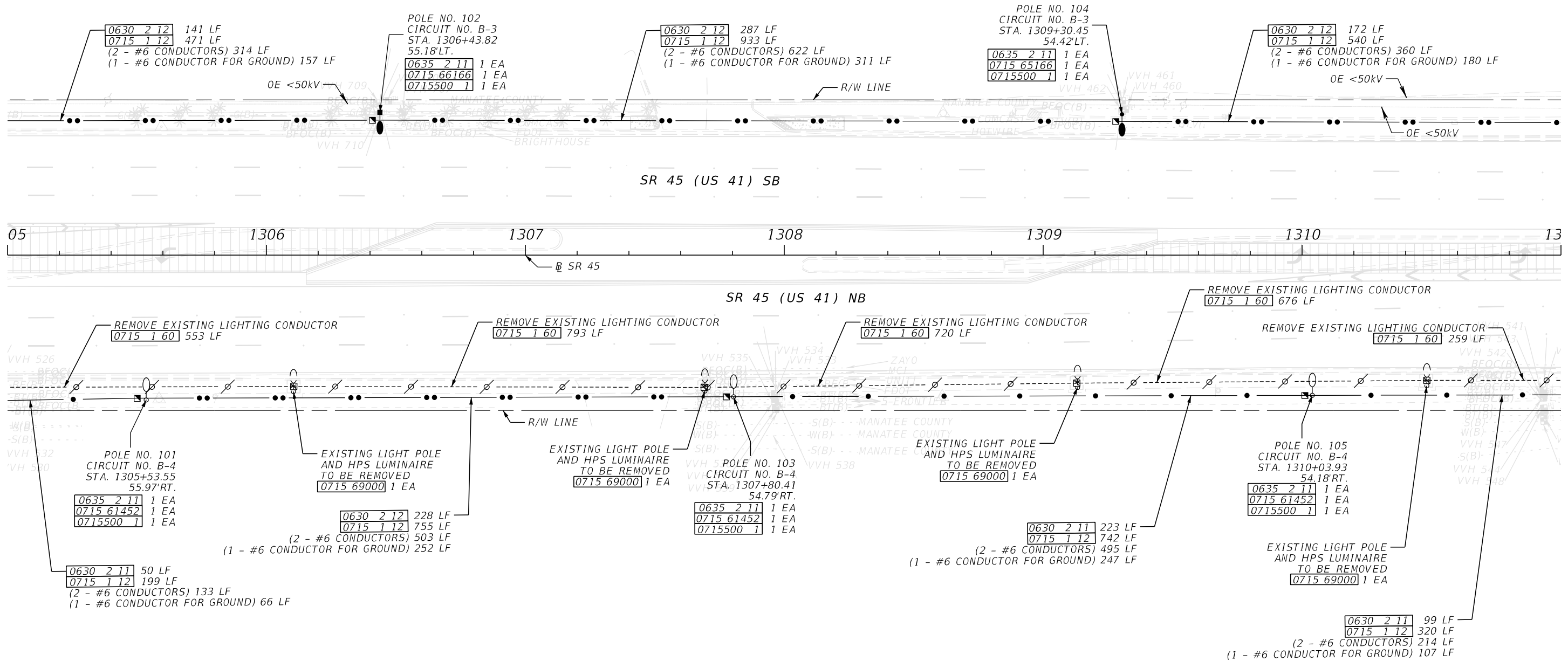
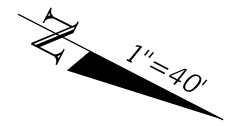
5/22/2024 7:14:22 AM RD1525M C:\proj\lects\FDOT_44461215201\Lighting\PLAN\L101.dgn

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ISAMARIE L. MONREAL LICENSE NUMBER: 72029 FLORIDA DEPT. OF TRANSPORTATION 801 N. BROADWAY AVENUE BARTOW, FL 33830-3809		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 45	MANATEE	444612-1-52-01	

LIGHTING PLAN

L-23

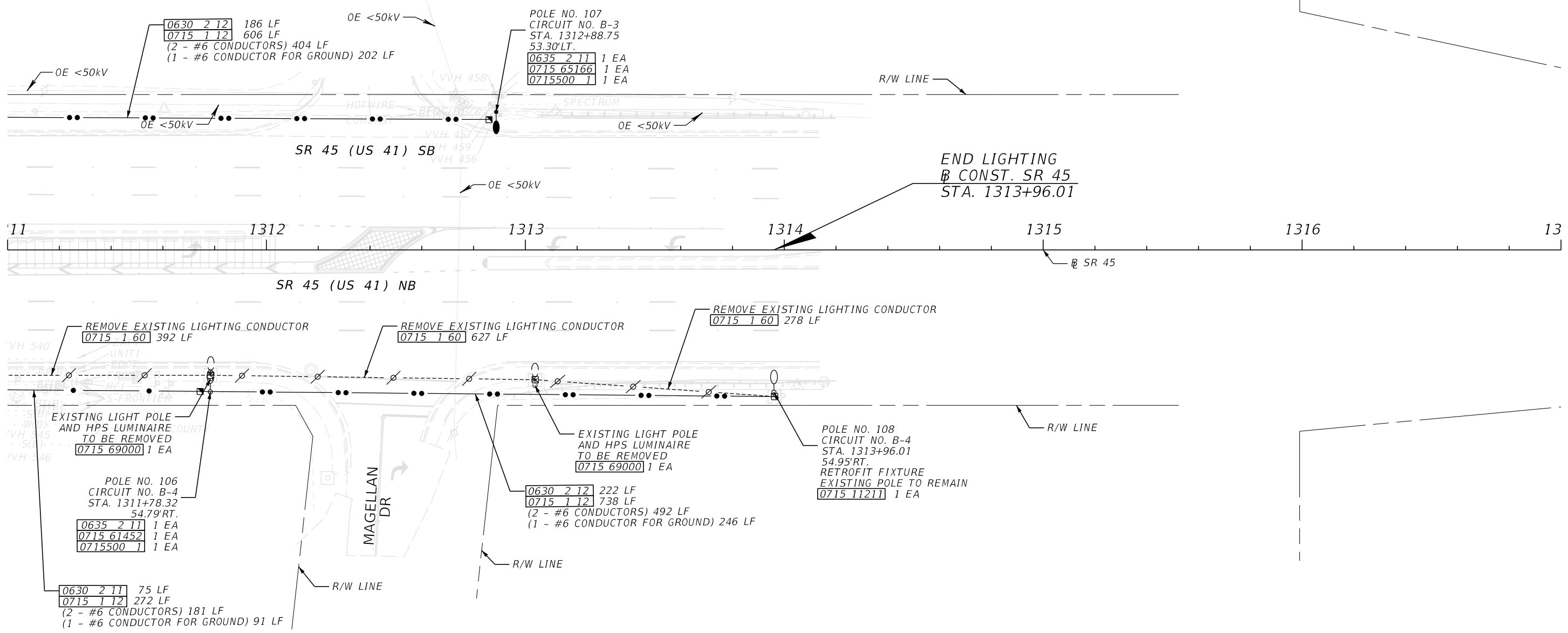
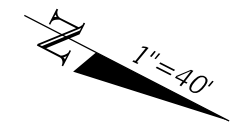
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				ISAMARIE L. MONREAL LICENSE NUMBER: 72029 FLORIDA DEPT. OF TRANSPORTATION 801 N. BROADWAY AVENUE BARTOW, FL 33830-3809		SR 45	MANATEE	444612-1-52-01	
LIGHTING PLAN									L-24

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ISAMARIE L. MONREAL LICENSE NUMBER: 72029 FLORIDA DEPT. OF TRANSPORTATION 801 N. BROADWAY AVENUE BARTOW, FL 33830-3809		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 45	MANATEE	444612-1-52-01	

LIGHTING PLAN

L-25

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