STATE OF FLORIDA

DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 445144-1-52-01

FINANCIAL PROJECT ID 445144-1-52-02

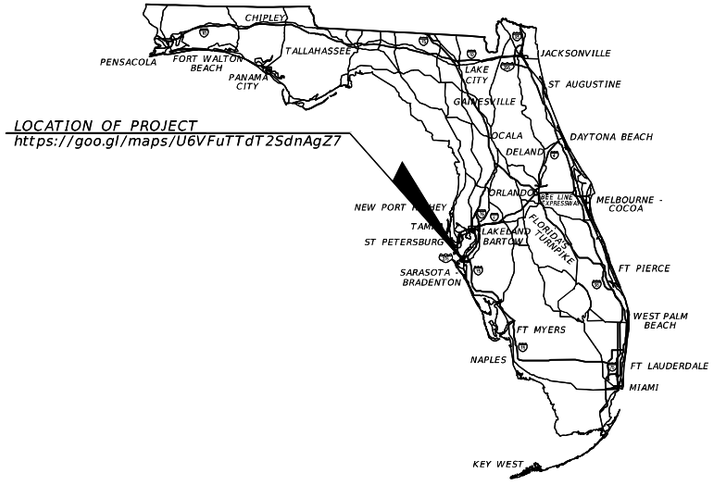
(FEDERAL FUNDS)

MANATEE COUNTY (13121) (13130)

STATE ROAD NO. 683

FROM S OF 25TH CT E TO S OF 13TH AVE E

LIGHTING PLANS



LOCATION OF PROJECT
https://goo.gl/maps/U6VFuTTdT2SdnAgZ7

INDEX OF LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
L-1	KEY SHEET
L-1A	NOTES TO REVIEWER
L-2	GENERAL NOTES
L-3 - L-5	LIGHTING DATA TABLE AND LEGEND
L-6 - L-22	LIGHTING PLAN
L-23 - L-24	PANELBOARD SCHEDULE

PHASE IV SUBMITTAL
7/22/2022

PROJECT LOCATION URL:	https://tinyurl.com/2p9crhaw
PROJECT LIMITS:	BEGIN MP 0.392 TO MP 7.908 (13121) = MP 1.661 TO END MP 1.750 (13130)
EXCEPTIONS:	MP 2.629 TO MP 2.886 NB MP 2.729 TO MP 2.983 SB MP 4.236 TO MP 4.391
BRIDGE LIMITS:	BR#130080 MP 6.646 - MP 6.809 BR#130081 MP 6.673 - MP 6.787 BR#130083 MP 7.590 - MP 7.606
RAILROAD CROSSING:	DOT/AAR CROSSING NO. 624712-B RR MP AZA 917.00, CSXT, INC. MP 7.908 BK. = MP 1.661 AH.

JULIO A. ALEGRE
LICENSE
No 66265
STATE OF FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

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LIGHTING PLANS
ENGINEER OF RECORD:

JULIO A. ALEGRE P.E. NO.: 66265
PROTEAN DESIGN GROUP
100 EAST PINE STREET, SUITE 600
ORLANDO, FL 32801
(407) 246-0044
CONTRACT NO.: CAB34
VENDOR NO.: F59-3473441

FDOT PROJECT MANAGER:

KERI NELSON

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
T1849	23	L-1

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NOTES TO REVIEWER:

1. COORDINATION WITH THE ELECTRICAL UAO FOR THE PROPOSED LIGHTING POWER SERVICE POINTS IS ONGOING.

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			NOTES TO REVIEWER	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JULIO A. ALEGRE, P.E. LICENSE NUMBER 66265 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO, FL 32801	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-1A
					SR 683	MANATEE	445144-1-52-01		

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LIGHTING GENERAL NOTES

1. THE MAINTAINING AGENCY FOR THE LIGHTING AT THE FOLLOWING INTERSECTIONS IS MANATEE COUNTY AT (941) 749-3502. ALL LED STREET LIGHT FIXTURES AND POLES THAT ARE REMOVED SHALL BE RETURNED TO MANATEE COUNTY. CONTACT CORY MILES AT (941) 708-7450 TO COORDINATE RETURNING THE FIXTURES AND POLES.

   - 77TH AVE. E./ TALLEVAST RD.
   - 69TH AVE. E./ WHITFIELD AVE.
   - 53RD AVE. E./ ONECO RD. (SR 70)

2. THE MAINTAINING AGENCY FOR THE LIGHTING AT THE FOLLOWING INTERSECTIONS IS FDOT DISTRICT ONE TRAFFIC OPERATIONS AT (863) 519-2490.

   - 30TH AVE. E.
   - 15TH ST. E.
   - 9TH ST. E.

3. THE LOCATIONS OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, ARE APPROXIMATE AND BASED ON THE INFORMATION FURNISHED TO THE ENGINEER BY THE UTILITY OWNER(S) TO SHOW THAT UNDERGROUND UTILITIES EXIST. STAKE ALL POLE LOCATIONS AND NOTIFY UTILITY OWNER(S) FOR LOCATION AND STAKING OF UNDERGROUND FACILITIES BEFORE EXCAVATING.

4. NOTIFY THE POWER COMPANY AT LEAST 2 BUSINESS DAYS PRIOR TO ANY INSTALLATION THAT IS WITHIN TEN (10) FEET OF ENERGIZED ELECTRICAL CONDUCTORS. THE POWER COMPANY, AT ITS OPTION, SHALL ASSIST IN PROVIDING 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.

5. AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE WITHIN 5 FEET OF THE LIGHTING POLE FOUNDATIONS OR CONDUIT RUN, AS DETERMINED BY THE ENGINEER, HAND DIG THE FIRST 4 FEET OF THE HOLE FOR THE POLE FOUNDATION AND CONDUIT RUN.

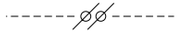
6. PREPARE ACCURATELY DIMENSIONED "AS BUILT" PLANS OF FINAL POLE, LUMINAIRE, LOAD CENTER, CIRCUIT AND CONDUIT LOCATIONS. PLANS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER AND SUBMITTED TO THE RESIDENT ENGINEER. COST OF SUCH PREPARATION SHALL BE INCIDENTAL TO PAY ITEMS PROVIDED.

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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JULIO A. ALEGRE, P.E. LICENSE NUMBER 66265 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO, FL 32801	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-2
					SR 683	MANATEE	445144-1-52-01		

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LEGEND

SYMBOLS	DESCRIPTION
	Existing light pole to remain.
	Existing light pole to be removed.
	Existing utility pole mounted luminaire to remain.
	278 watt LED luminaire designed for short, type IV distribution (B2-U0-G4) wired for 480 volt operation. Retrofit luminaire with varying mounting height (as noted in Lighting Data Table). The required luminaire is: Manufacturer: GE Lighting Solutions, Evolve LED Roadway Streetlight-ERL2 Catalog No.: ERL2_30D340, Test No. 17072611 17072711 17072712 17072816 17072817 17072818. Symbol includes luminaire, the removal of the existing HPS luminaire, and PCDS. Contractor to return removed luminaire to the County. Existing light pole to remain.
	278 watt LED luminaire designed for short, type IV distribution (B2-U0-G4) wired for 480 volt operation. Horizontal mounted luminaire with varying mounting height (as noted in Lighting Data Table). The required luminaire is: Manufacturer: GE Lighting Solutions, Evolve LED Roadway Streetlight-ERL2 Catalog No.: ERL2_30D340, Test No. 17072611 17072711 17072712 17072816 17072817 17072818. Symbol includes fixture, frangible/breakaway transformer base, concrete slab, pull box, foundation, and PCDS. PCDS and pull box paid for separately.
	Existing pull box.
	Proposed lighting pull box.
	Proposed lighting load center.
	Existing lighting load center.
	Proposed Power Service Assembly Mounted to Concrete Pedestal
	Open trench conduit with conductors inside (conductor size as shown on the plan sheets).
	Directional bore conduit with conductors inside (conductor size as shown on the plan sheets). A spare conduit run shall be included at each directional bore.
	Existing conduit and conductors to be removed.
FOC	Face of Curb
EOTL	Edge of Travel Lane
FOGR	Face of Guardrail
EOAL	Edge of Auxiliary Lane

SIGNALIZED INTERSECTION LIGHTING
(NEW OR RECONSTRUCTION)
DESIGN CRITERIA

Illumination Level Average	3.0 Horizontal Foot Candles (Std.)
	1.5 Horizontal Foot Candles (Min.)
	1.5 Vertical Foot Candles (Std.)
	1.2 Vertical Foot Candles (Min.)
Uniformity Ratio Avg./Min.	4:1 Or Less
Max./Min.	10:1 Or Less
Wind Speed	140 MPH

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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING DATA TABLE AND LEGEND (1)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JULIO A. ALEGRE, P.E. LICENSE NUMBER 66265 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO, FL 32801	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-3
					SR 683	MANATEE	445144-1-52-01		

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LIGHTING DATA TABLE

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	TILT	LUMINAIRE WATTAGE	DISTRIBUTION	MOUNTING HEIGHT	FOUNDATION TYPE	POLE SETBACK	PAY ITEM
Exist. A-1-1	A-1	STA. 180+22 SR 683 ℄ SURVEY	Exist.	Exist.	278	TYPE IV	Exist.	Exist.	Exist.	715-11-211
Exist. A-1-2	A-1	STA. 180+23 SR 683 ℄ SURVEY	Exist.	Exist.	278	TYPE IV	Exist.	Exist.	Exist.	715-11-211
A-1-3	A-1	STA. 180+51 SR 683 ℄ SURVEY	15'	0°	278	TYPE IV	40'	STANDARD	27' EOAL	715-61-352
A-1-4	A-1	STA. 180+59 SR 683 ℄ SURVEY	15'	0°	278	TYPE IV	40'	STANDARD	22' FOC	715-61-352
Exist. A-1-5	A-1	STA. 180+78 SR 683 ℄ SURVEY	Exist.	Exist.	278	TYPE IV	Exist.	Exist.	Exist.	715-11-211
Exist. A-1-6	A-1	STA. 181+76 SR 683 ℄ SURVEY	Exist.	Exist.	278	TYPE IV	Exist.	Exist.	Exist.	715-11-211
A-1-7	A-1	STA. 181+77 SR 683 ℄ SURVEY	15'	0°	278	TYPE IV	40'	STANDARD	23' EOAL	715-61-352
A-1-8	A-1	STA. 182+04 SR 683 ℄ SURVEY	15'	0°	278	TYPE IV	40'	STANDARD	28' EOAL	715-61-352
A-1-9	A-1	STA. 182+15 SR 683 ℄ SURVEY	15'	0°	278	TYPE IV	40'	STANDARD	16' FOC	715-61-352
A-1-10	A-1	STA. 182+32 SR 683 ℄ SURVEY	15'	0°	278	TYPE IV	40'	STANDARD	35' EOAL	715-61-352
Exist. A-1-11	A-1	STA. 182+47 SR 683 ℄ SURVEY	Exist.	Exist.	278	TYPE IV	Exist.	Exist.	Exist.	715-11-211
B-1-1	B-1	STA. 233+15 SR 683 ℄ SURVEY	15'	0°	278	TYPE IV	40'	STANDARD	19' EOAL	715-61-352
B-1-2	B-1	STA. 233+34 SR 683 ℄ SURVEY	15'	0°	278	TYPE IV	40'	STANDARD	24' EOAL	715-61-352
B-1-3	B-1	STA. 233+44 SR 683 ℄ SURVEY	15'	0°	278	TYPE IV	40'	STANDARD	26' EOAL	715-61-352
B-1-4	B-1	STA. 233+57 SR 683 ℄ SURVEY	15'	0°	278	TYPE IV	40'	STANDARD	24' EOAL	715-61-352
B-1-5	B-1	STA. 233+65 SR 683 ℄ SURVEY	15'	0°	278	TYPE IV	40'	STANDARD	26' EOAL	715-61-352
B-1-6	B-1	STA. 233+73 SR 683 ℄ SURVEY	15'	0°	278	TYPE IV	40'	STANDARD	24' EOTL	715-61-352
Exist. B-1-7	B-1	STA. 233+79 SR 683 ℄ SURVEY	Exist.	Exist.	278	TYPE IV	Exist.	Exist.	Exist.	715-11-211
Exist. B-1-8	B-1	STA. 234+89 SR 683 ℄ SURVEY	Exist.	Exist.	278	TYPE IV	Exist.	Exist.	Exist.	715-11-211
B-1-9	B-1	STA. 234+95 SR 683 ℄ SURVEY	15'	0°	278	TYPE IV	40'	STANDARD	23' EOAL	715-61-352
B-1-10	B-1	STA. 235+06 SR 683 ℄ SURVEY	15'	0°	278	TYPE IV	40'	STANDARD	27' EOAL	715-61-352
B-1-11	B-1	STA. 235+24 SR 683 ℄ SURVEY	15'	0°	278	TYPE IV	45'	STANDARD	23' EOAL	715-61-452
B-1-12	B-1	STA. 235+50 SR 683 ℄ SURVEY	15'	0°	278	TYPE IV	40'	STANDARD	23' EOAL	715-61-352
B-1-13	B-1	STA. 235+59 SR 683 ℄ SURVEY	15'	0°	278	TYPE IV	40'	STANDARD	23' EOAL	715-61-352
Exist. D-1-1	D-1	STA. 340+47 SR 683 ℄ SURVEY	Exist.	Exist.	278	TYPE IV	Exist.	Exist.	Exist.	715-11-211
Exist. D-1-2	D-1	STA. 340+51 SR 683 ℄ SURVEY	Exist.	Exist.	278	TYPE IV	Exist.	Exist.	Exist.	715-11-211
D-1-3	D-1	STA. 340+86 SR 683 ℄ SURVEY	15'	0°	278	TYPE IV	35'	STANDARD	6' FOC	715-61-252
D-1-4	D-1	STA. 341+03 SR 683 ℄ SURVEY	15'	0°	278	TYPE IV	40'	STANDARD	11' FOC	715-61-352
D-1-5	D-1	STA. 341+07 SR 683 ℄ SURVEY	15'	0°	278	TYPE IV	40'	STANDARD	13' FOC	715-61-352
Exist. D-1-6	D-1	STA. 341+10 SR 683 ℄ SURVEY	Exist.	Exist.	278	TYPE IV	Exist.	Exist.	Exist.	715-11-211
D-1-7	D-1	STA. 341+15 SR 683 ℄ SURVEY	15'	0°	278	TYPE IV	40'	STANDARD	9' FOC	715-61-352
D-1-8	D-1	STA. 342+37 SR 683 ℄ SURVEY	15'	0°	278	TYPE IV	40'	STANDARD	9' FOC	715-61-352
Exist. D-1-9	D-1	STA. 342+46 SR 683 ℄ SURVEY	Exist.	Exist.	278	TYPE IV	Exist.	Exist.	Exist.	715-11-211
Exist. D-1-10	D-1	STA. 342+63 SR 683 ℄ SURVEY	Exist.	Exist.	278	TYPE IV	Exist.	Exist.	Exist.	715-11-211
D-1-11	D-1	STA. 342+70 SR 683 ℄ SURVEY	15'	0°	278	TYPE IV	40'	STANDARD	13' FOC	715-61-352
D-1-12	D-1	STA. 342+71 SR 683 ℄ SURVEY	15'	0°	278	TYPE IV	40'	STANDARD	12' FOC	715-61-352
Exist. D-1-13	D-1	STA. 343+08 SR 683 ℄ SURVEY	Exist.	Exist.	278	TYPE IV	Exist.	Exist.	Exist.	715-11-211
D-1-14	D-1	STA. 343+12 SR 683 ℄ SURVEY	15'	0°	278	TYPE IV	40'	STANDARD	27' FOC	715-61-352
E-1-1	E-1	STA. 1530+30 US 301 ℄ CONST.	12'	0°	278	TYPE IV	45'	STANDARD	19' EOAL	715-61-442
E-1-2	E-1	STA. 1530+36 US 301 ℄ CONST.	12'	0°	278	TYPE IV	45'	STANDARD	21' EOAL	715-61-442
Exist. E-1-3	E-1	STA. 1531+95 US 301 ℄ CONST.	Exist.	Exist.	278	TYPE IV	Exist.	Exist.	Exist.	715-11-211
E-1-4	E-1	STA. 1532+15 US 301 ℄ CONST.	12'	0°	278	TYPE IV	45'	STANDARD	27' EOTL	715-61-442
E-1-5	E-1	STA. 1532+32 US 301 ℄ CONST.	12'	0°	278	TYPE IV	45'	STANDARD	40' EOTL	715-61-442
E-1-6	E-1	STA. 1532+86 US 301 ℄ CONST.	12'	0°	278	TYPE IV	45'	STANDARD	44' EOTL	715-61-442
E-1-7	E-1	STA. 1532+88 US 301 ℄ CONST.	12'	0°	278	TYPE IV	45'	STANDARD	21' EOTL	715-61-442
E-1-8	E-1	STA. 1533+52 US 301 ℄ CONST.	12'	0°	278	TYPE IV	45'	STANDARD	45' EOTL	715-61-442
E-1-9	E-1	STA. 1533+87 US 301 ℄ CONST.	12'	0°	278	TYPE IV	45'	STANDARD	22' EOTL	715-61-442
Exist. E-1-10	E-1	STA. 1534+45 US 301 ℄ CONST.	Exist.	Exist.	278	TYPE IV	Exist.	Exist.	Exist.	715-11-211
E-1-11	E-1	STA. 1534+56 US 301 ℄ CONST.	12'	0°	278	TYPE IV	45'	STANDARD	21' EOTL	715-61-442
E-1-12	E-1	STA. 1534+80 US 301 ℄ CONST.	12'	0°	278	TYPE IV	35'	STANDARD	22' EOTL	715-61-242

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
JULIO A. ALEGRE, P.E.
LICENSE NUMBER 66265
PROTEAN DESIGN GROUP
100 EAST PINE STREET, SUITE 600
ORLANDO, FL 32801

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 683	MANATEE	445144-1-52-01

LIGHTING DATA TABLE AND LEGEND (2)

SHEET NO. L-4

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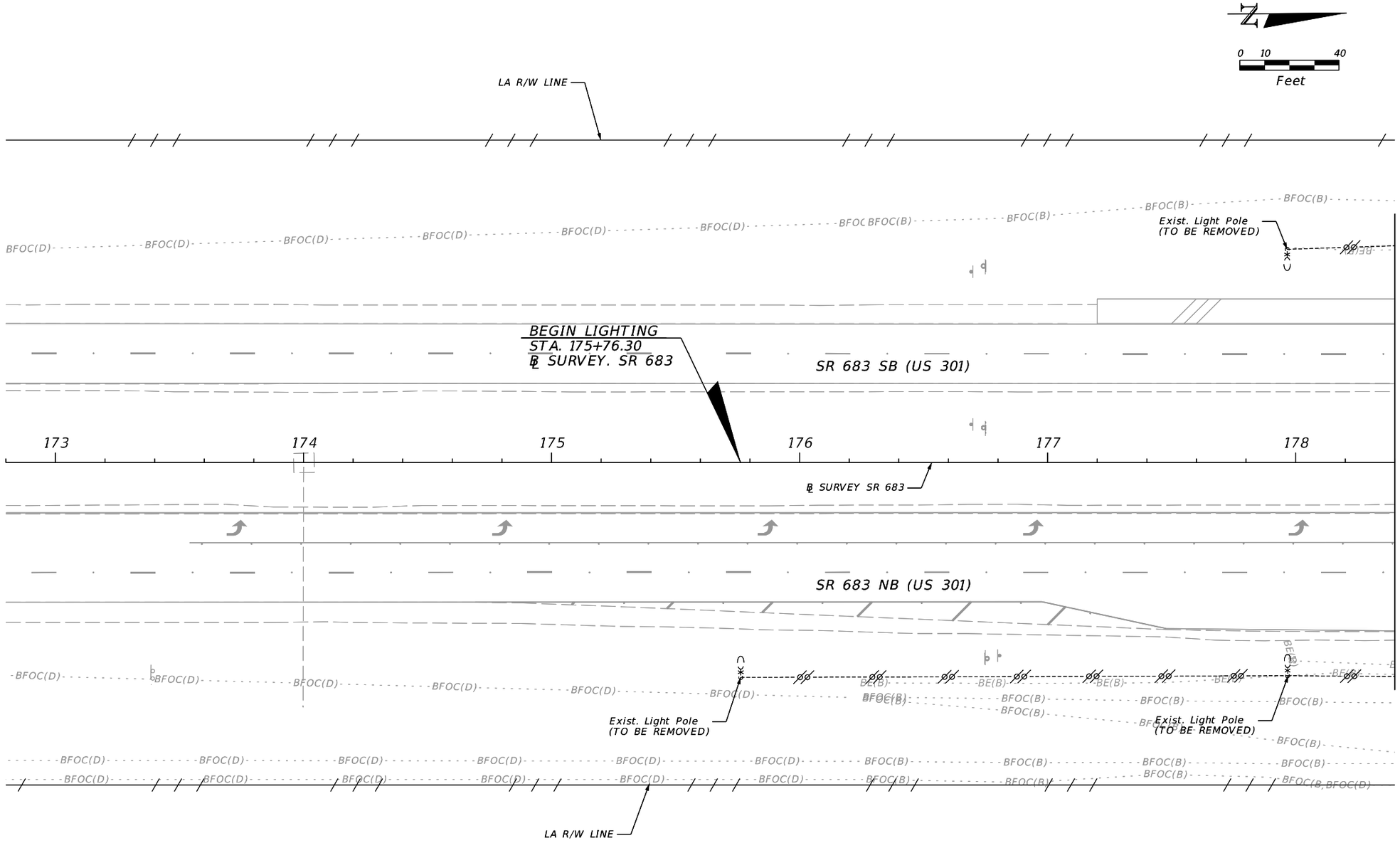
LIGHTING DATA TABLE

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	TILT	LUMINAIRE WATTAGE	DISTRIBUTION	MOUNTING HEIGHT	FOUNDATION TYPE	POLE SETBACK	PAY ITEM
E-1-13	E-1	STA. 1535+37 US 301 ℄ CONST.	12'	0°	278	TYPE IV	45'	STANDARD	21' EOTL	715-61-442
E-1-14	E-1	STA. 1536+19 US 301 ℄ CONST.	12'	0°	278	TYPE IV	45'	STANDARD	26' EOAL	715-61-442
E-1-15	E-1	STA. 1536+32 US 301 ℄ CONST.	12'	0°	278	TYPE IV	45'	STANDARD	17' EOAL	715-61-442
F-1-1	F-1	STA. 1545+78 US 301 ℄ CONST.	15'	0°	278	TYPE IV	50'	STANDARD	14' EOAL	715-61-552
F-1-2	F-1	STA. 1546+50 US 301 ℄ CONST.	15'	0°	278	TYPE IV	50'	STANDARD	23' EOAL	715-61-552
F-1-3	F-1	STA. 1546+42 US 301 ℄ CONST.	15'	0°	278	TYPE IV	50'	STANDARD	20' EOTL	715-61-552
F-1-4	F-1	STA. 1546+83 US 301 ℄ CONST.	15'	0°	278	TYPE IV	50'	STANDARD	15' EOAL	715-61-552
F-1-5	F-1	STA. 1547+50 US 301 ℄ CONST.	15'	0°	278	TYPE IV	50'	STANDARD	18' EOAL	715-61-552
F-1-6	F-1	STA. 1547+78 US 301 ℄ CONST.	15'	0°	278	TYPE IV	50'	STANDARD	16' EOAL	715-61-552
F-1-7	F-1	STA. 1547+89 US 301 ℄ CONST.	15'	0°	278	TYPE IV	50'	STANDARD	16' EOAL	715-61-552
F-1-8	F-1	STA. 1548+26 US 301 ℄ CONST.	15'	0°	278	TYPE IV	50'	STANDARD	19' EOAL	715-61-552
F-1-9	F-1	STA. 1548+83 US 301 ℄ CONST.	15'	0°	278	TYPE IV	50'	STANDARD	15' EOAL	715-61-552
F-1-10	F-1	STA. 1549+25 US 301 ℄ CONST.	15'	0°	278	TYPE IV	50'	STANDARD	20' EOAL	715-61-552
F-1-11	F-1	STA. 1549+99 US 301 ℄ CONST.	15'	0°	278	TYPE IV	50'	STANDARD	6' FOGR	715-61-552
G-1-1	G-1	STA. 1577+21 US 301 ℄ CONST.	12'	0°	278	TYPE IV	45'	STANDARD	15' EOAL	715-61-442
G-1-2	G-1	STA. 1577+25 US 301 ℄ CONST.	12'	0°	278	TYPE IV	45'	STANDARD	16' EOAL	715-61-442
G-1-3	G-1	STA. 1578+40 US 301 ℄ CONST.	15'	0°	278	TYPE IV	45'	STANDARD	8' FOC	715-61-452
G-1-4	G-1	STA. 1578+74 US 301 ℄ CONST.	15'	0°	278	TYPE IV	50'	STANDARD	15' EOAL	715-61-552
G-1-5	G-1	STA. 1578+75 US 301 ℄ CONST.	15'	0°	278	TYPE IV	45'	STANDARD	7' FOC	715-61-452
Exist. G-1-6	G-1	STA. 1579+18 US 301 ℄ CONST.	Exist.	Exist.	278	TYPE IV	Exist.	Exist.	Exist.	715-11-211
G-1-7	G-1	STA. 1579+46 US 301 ℄ CONST.	15'	0°	278	TYPE IV	50'	STANDARD	17' EOAL	715-61-552
Exist. G-1-8	G-1	STA. 1579+86 US 301 ℄ CONST.	Exist.	Exist.	278	TYPE IV	Exist.	Exist.	Exist.	715-11-211
G-1-9	G-1	STA. 1580+18 US 301 ℄ CONST.	15'	0°	278	TYPE IV	50'	STANDARD	15' EOAL	715-61-552
G-1-10	G-1	STA. 1580+38 US 301 ℄ CONST.	15'	0°	278	TYPE IV	45'	STANDARD	10' FOC	715-61-452
G-1-11	G-1	STA. 1580+48 US 301 ℄ CONST.	15'	0°	278	TYPE IV	45'	STANDARD	5' FOC	715-61-452

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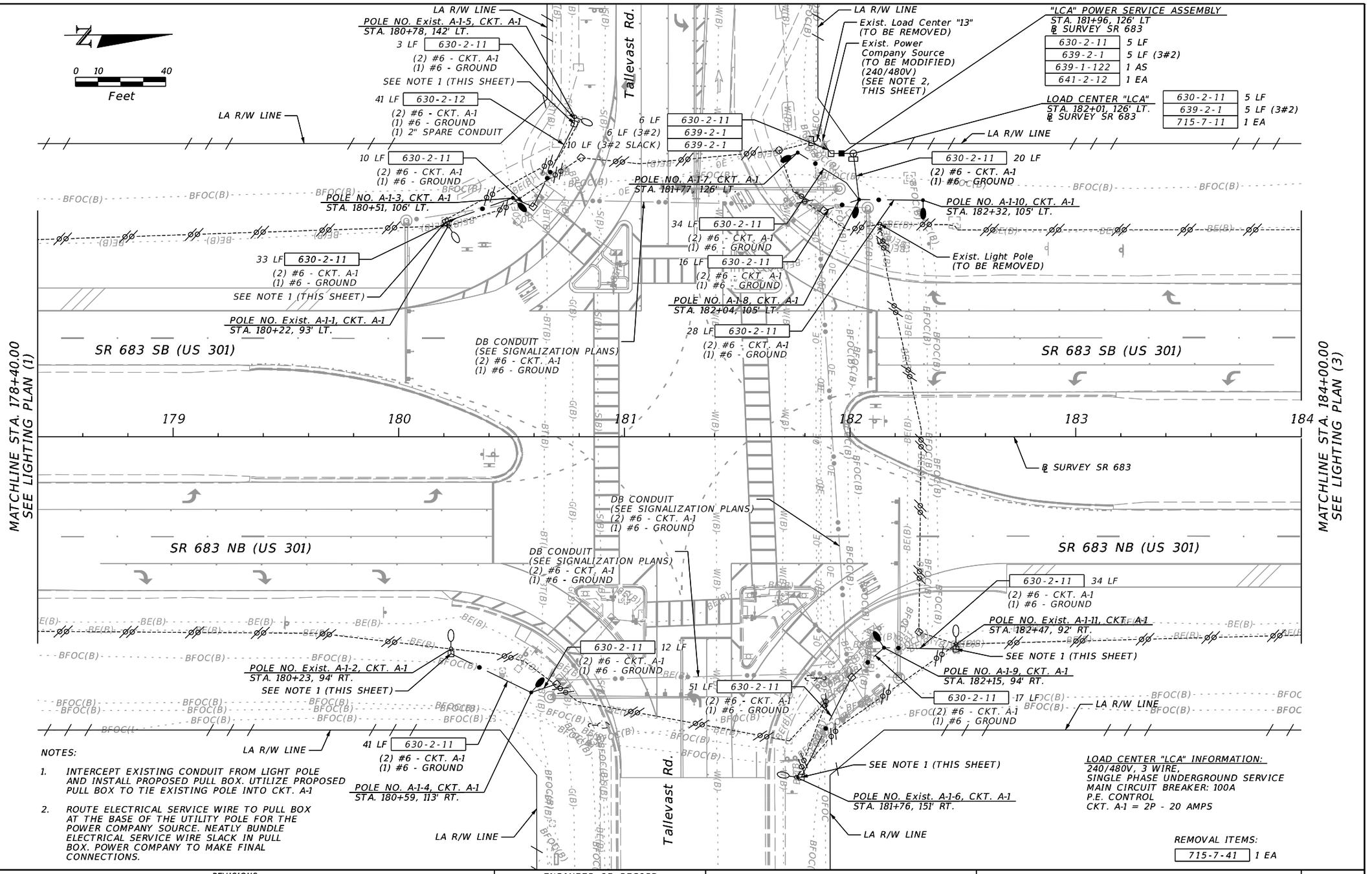
REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING DATA TABLE AND LEGEND (3)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JULIO A. ALEGRE, P.E. LICENSE NUMBER 66265 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO, FL 32801	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-5
					SR 683	MANATEE	445144-1-52-01		



REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (1)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JULIO A. ALEGRE, P.E. LICENSE NUMBER 66265 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO, FL 32801	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-6
					SR 683	MANATEE	445144-1-52-01		

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NOTES:

1. INTERCEPT EXISTING CONDUIT FROM LIGHT POLE AND INSTALL PROPOSED PULL BOX. UTILIZE PROPOSED PULL BOX TO TIE EXISTING POLE INTO CKT. A-1
2. ROUTE ELECTRICAL SERVICE WIRE TO PULL BOX AT THE BASE OF THE UTILITY POLE FOR THE POWER COMPANY SOURCE. NEATLY BUNDLE ELECTRICAL SERVICE WIRE SLACK IN PULL BOX. POWER COMPANY TO MAKE FINAL CONNECTIONS.

LOAD CENTER "LCA" INFORMATION:
240/480V, 3 WIRE,
SINGLE PHASE UNDERGROUND SERVICE
MAIN CIRCUIT BREAKER: 100A
P.E. CONTROL
CKT. A-1 = 2P - 20 AMPS

REMOVAL ITEMS:
715-7-41 1 EA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
JULIO A. ALEGRE, P.E.
LICENSE NUMBER 66265
PROTEAN DESIGN GROUP
100 EAST PINE STREET, SUITE 600
ORLANDO, FL 32801

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

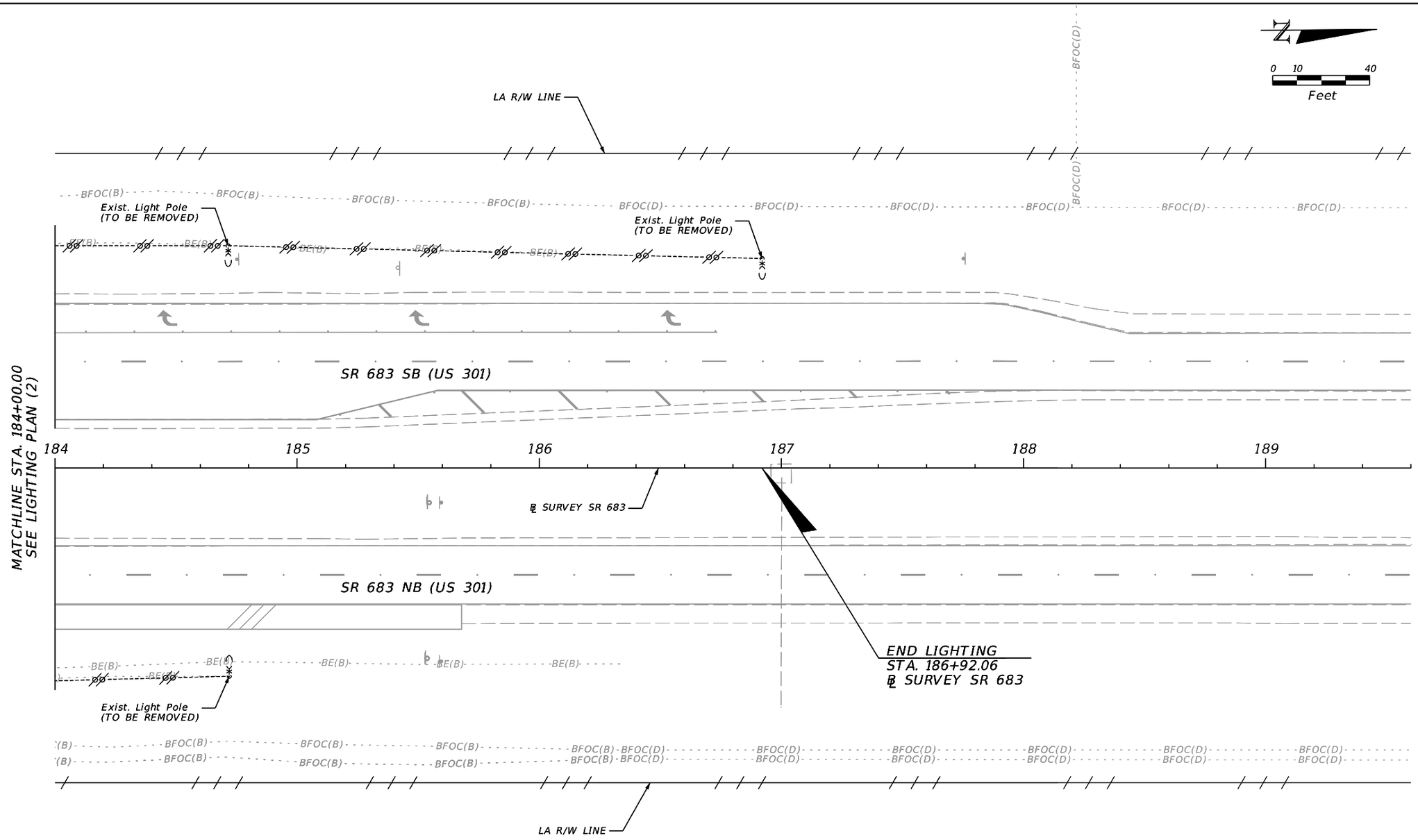
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 683	MANATEE	445144-1-52-01

LIGHTING PLAN (2)

SHEET NO. L-7

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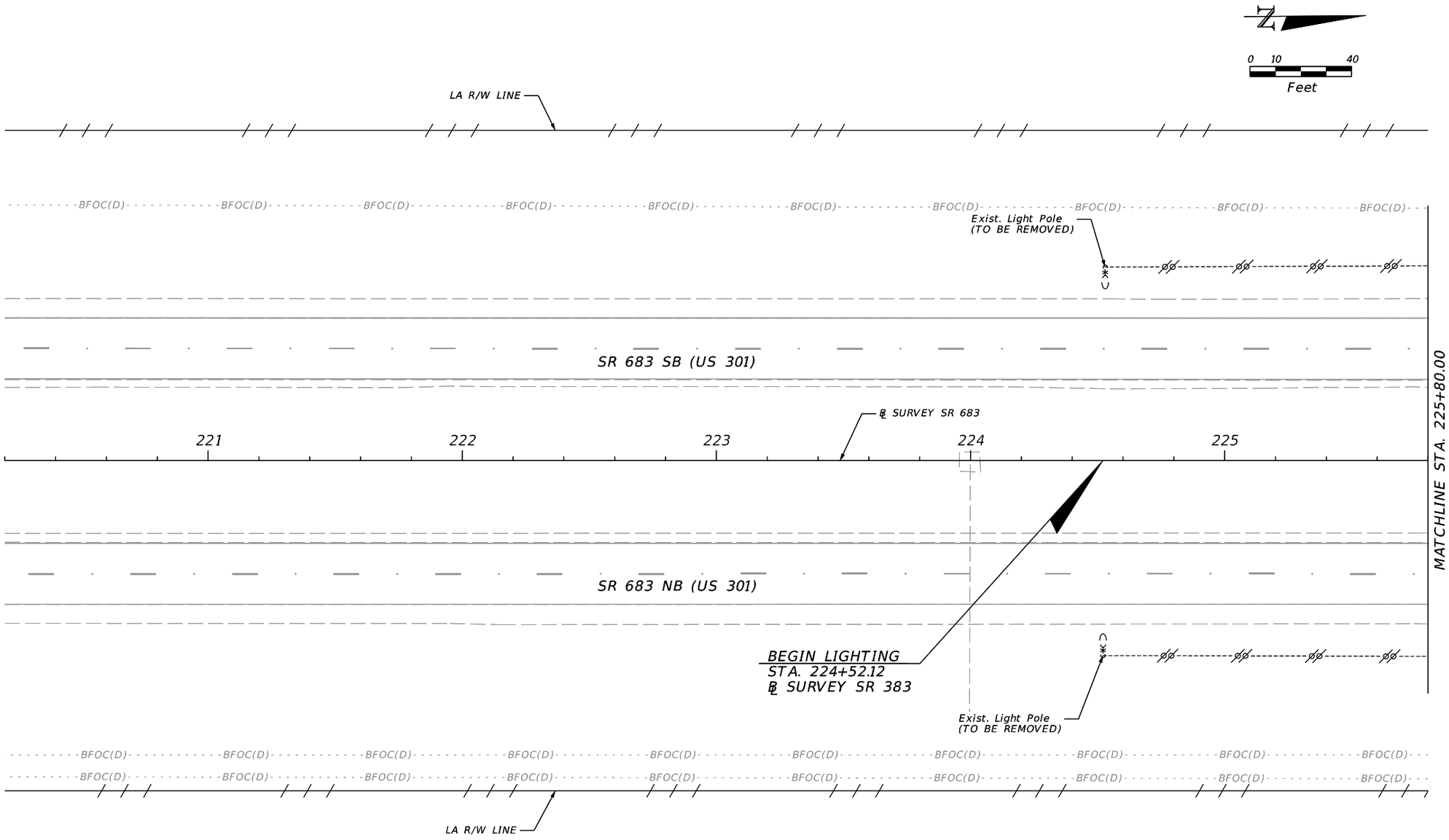
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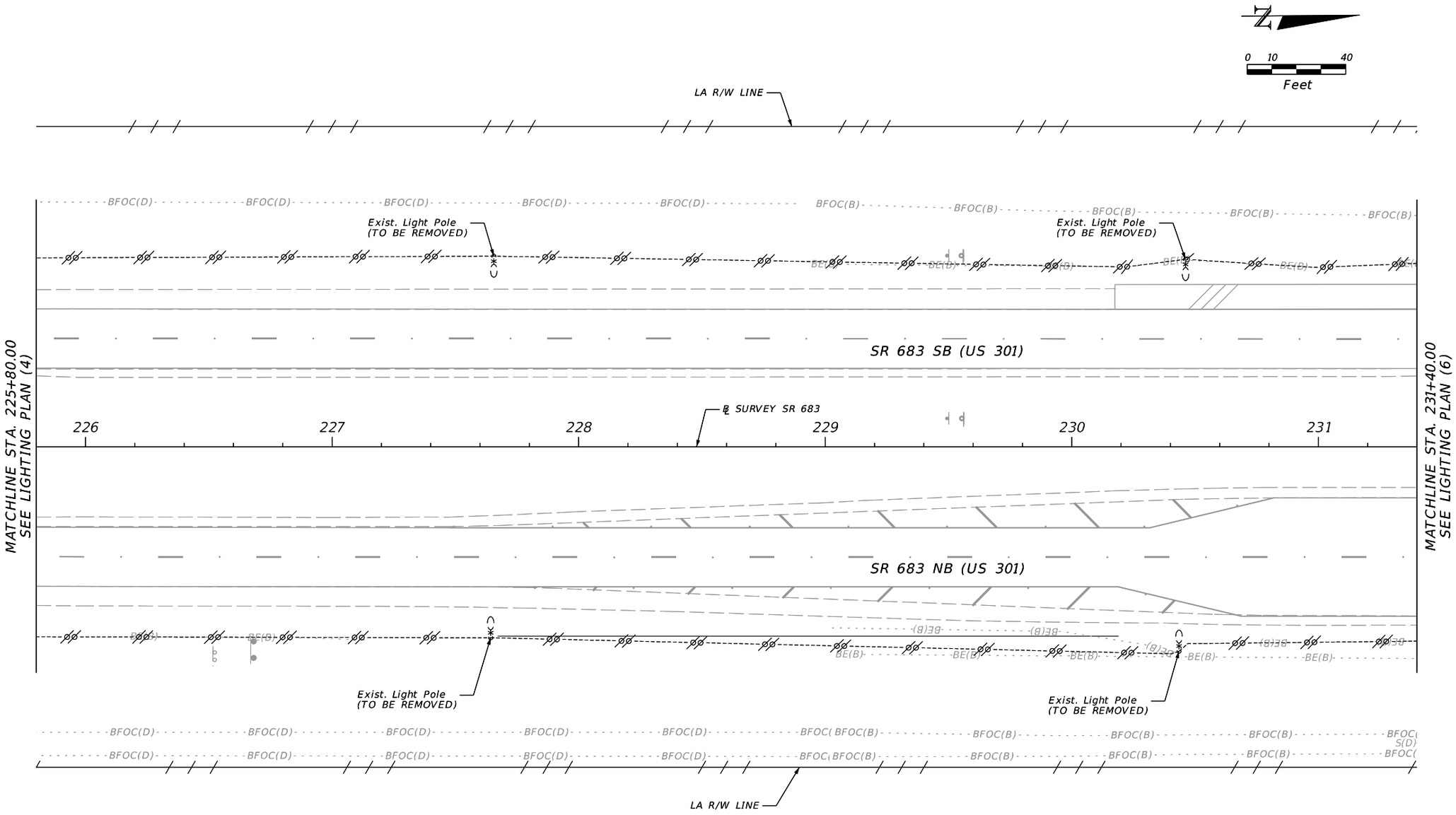
REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (3)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JULIO A. ALEGRE, P.E. LICENSE NUMBER 66265 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO, FL 32801	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-8
					SR 683	MANATEE	445144-1-52-01		



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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (4)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JULIO A. ALEGRE, P.E. LICENSE NUMBER 66265 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO, FL 32801	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-9
					SR 683	MANATEE	445144-1-52-01		

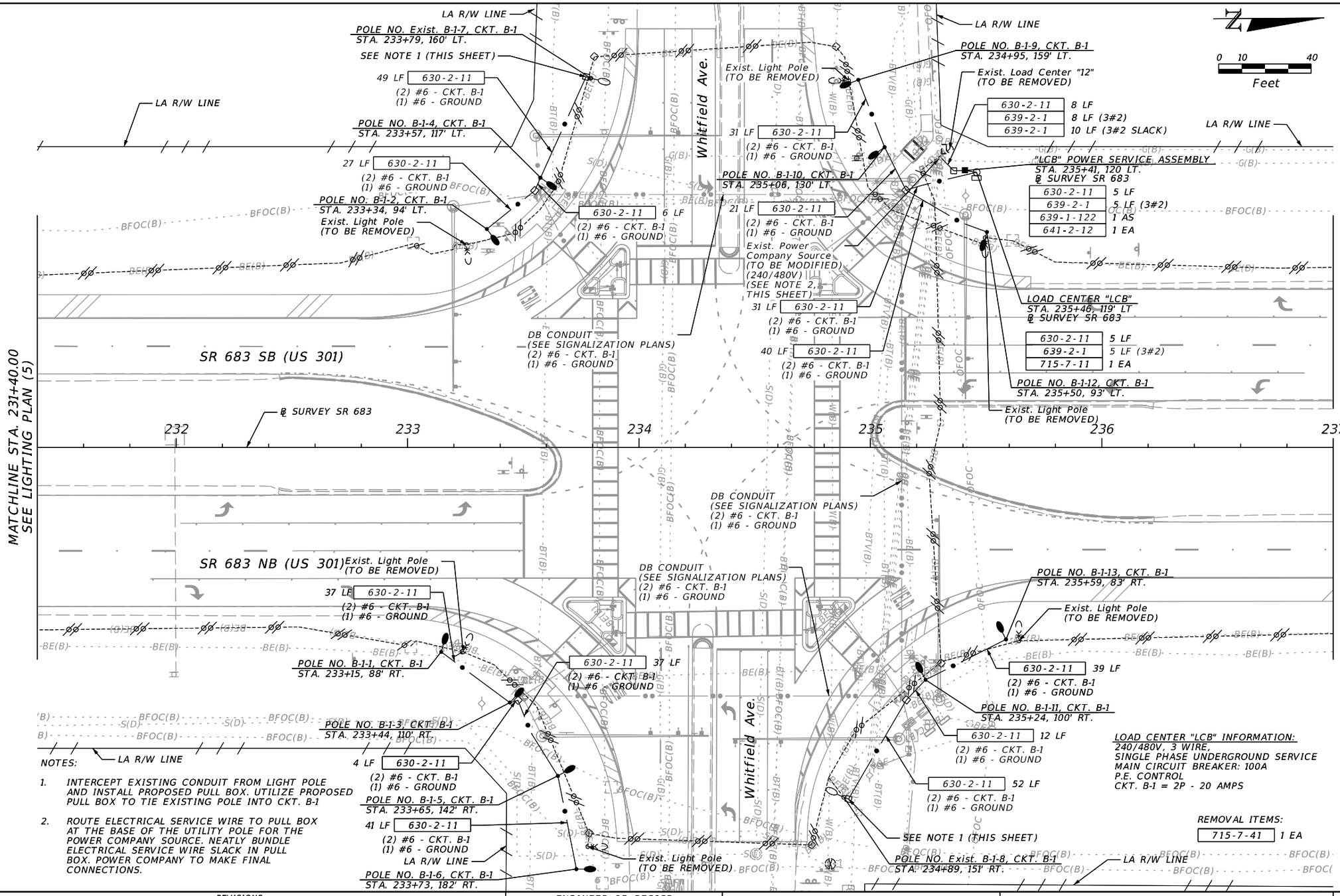
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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (5)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JULIO A. ALEGRE, P.E. LICENSE NUMBER 66265 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO, FL 32801	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-10
					SR 683	MANATEE	445144-1-52-01		

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NOTES:

1. INTERCEPT EXISTING CONDUIT FROM LIGHT POLE AND INSTALL PROPOSED PULL BOX. UTILIZE PROPOSED PULL BOX TO TIE EXISTING POLE INTO CKT. B-1
2. ROUTE ELECTRICAL SERVICE WIRE TO PULL BOX AT THE BASE OF THE UTILITY POLE FOR THE POWER COMPANY SOURCE. NEATLY BUNDLE ELECTRICAL SERVICE WIRE SLACK IN PULL BOX. POWER COMPANY TO MAKE FINAL CONNECTIONS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
JULIO A. ALEGRE, P.E.
LICENSE NUMBER 66265
PROTEAN DESIGN GROUP
100 EAST PINE STREET, SUITE 600
ORLANDO, FL 32801

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

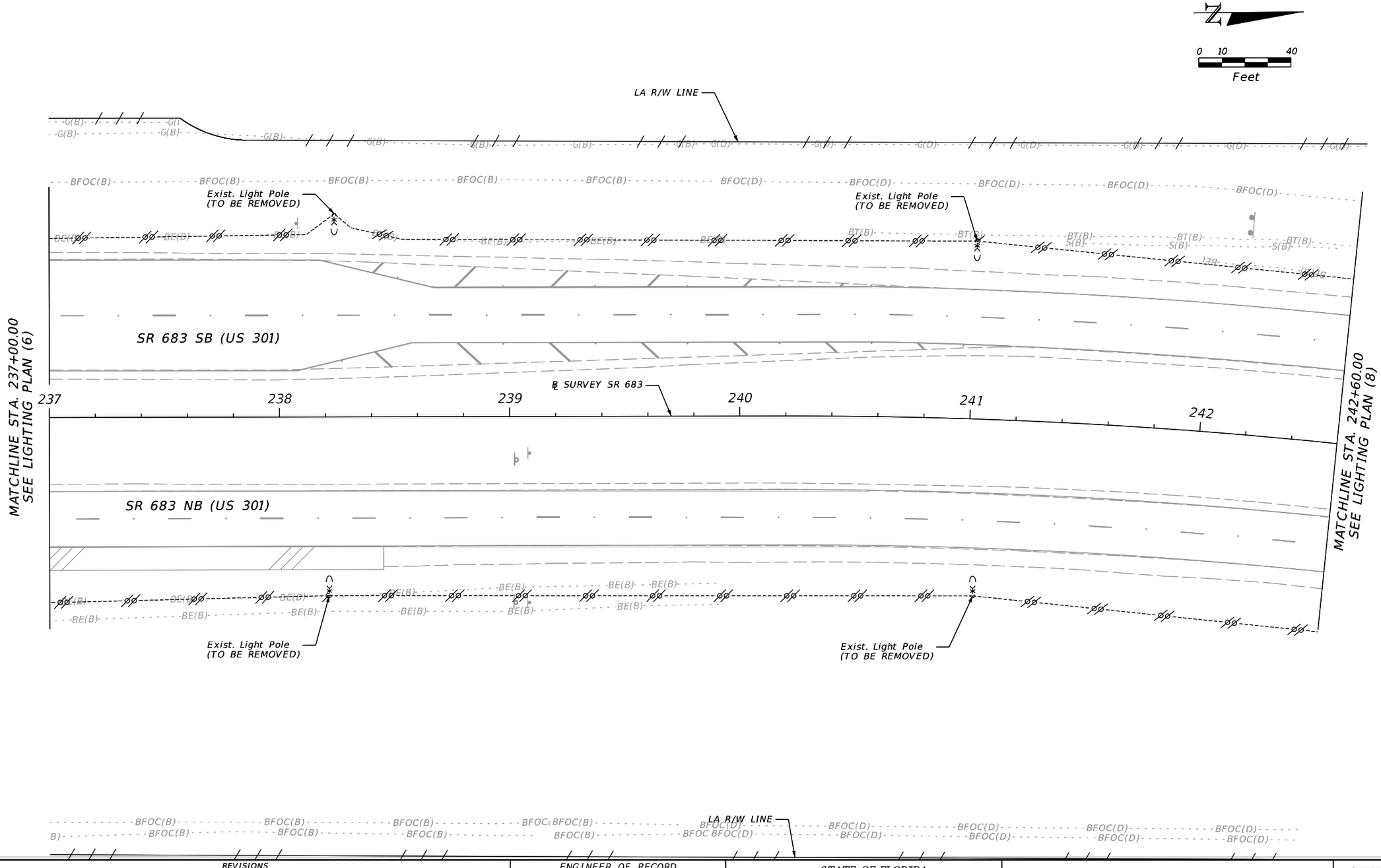
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 683	MANATEE	445144-1-52-01

LIGHTING PLAN (6)

SHEET NO. L-11

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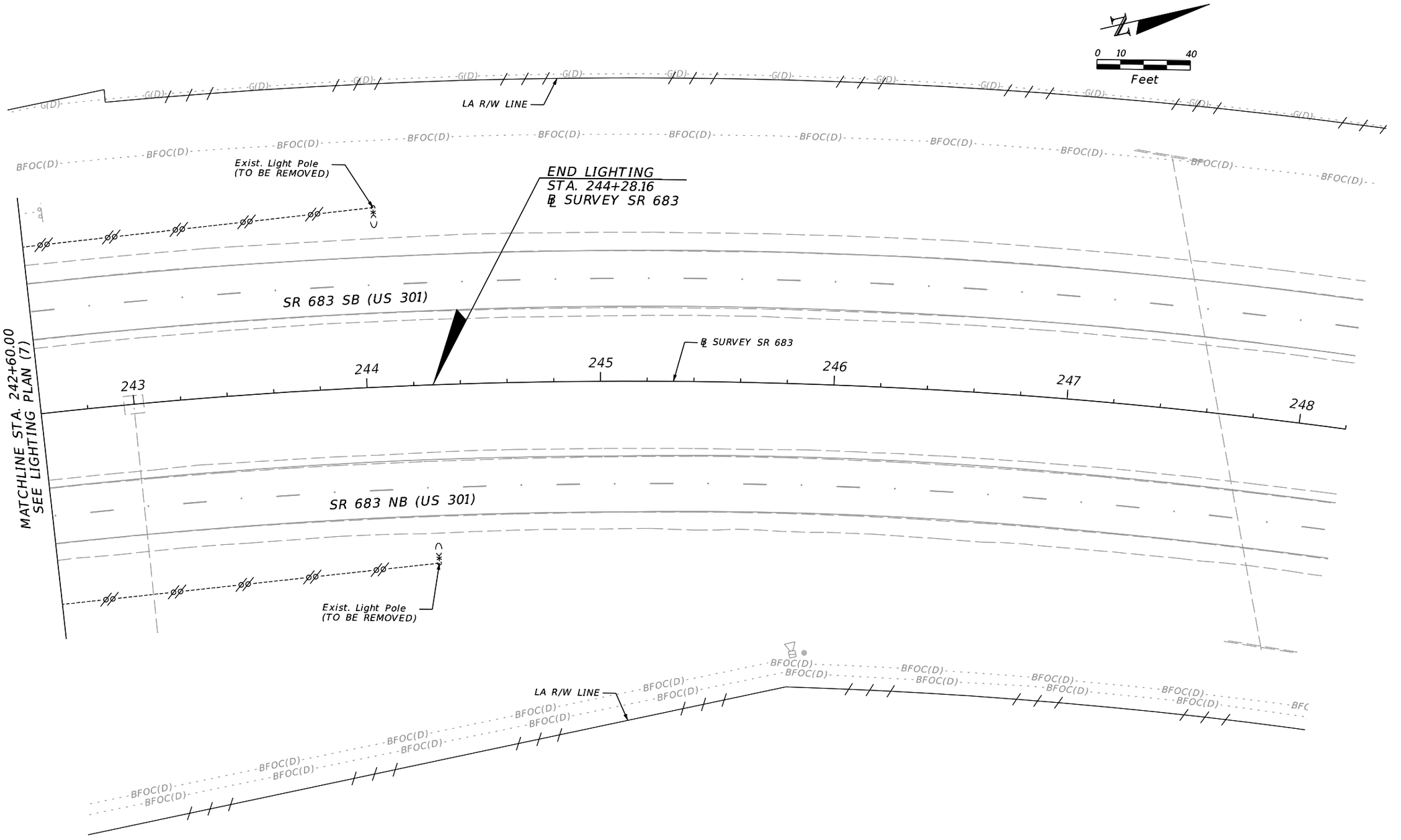
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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JULIO A. ALEGRE, P.E. LICENSE NUMBER 66265 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO, FL 32801	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	LIGHTING PLAN (7)	L-12
					SR 683	MANATEE	445144-1-52-01		

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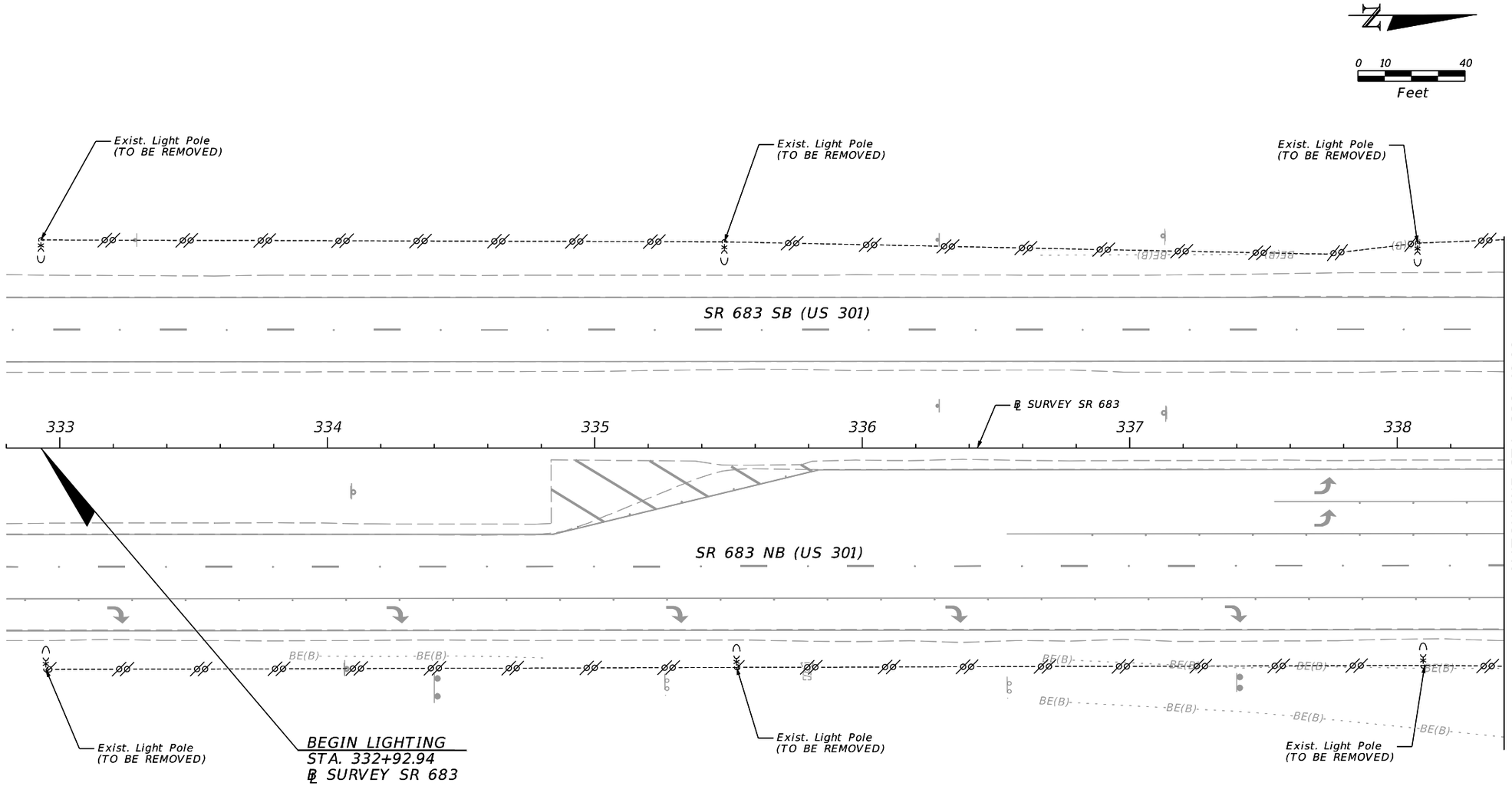
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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (8)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JULIO A. ALEGRE, P.E. LICENSE NUMBER 66265 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO, FL 32801	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-13
					SR 683	MANATEE	445144-1-52-01		

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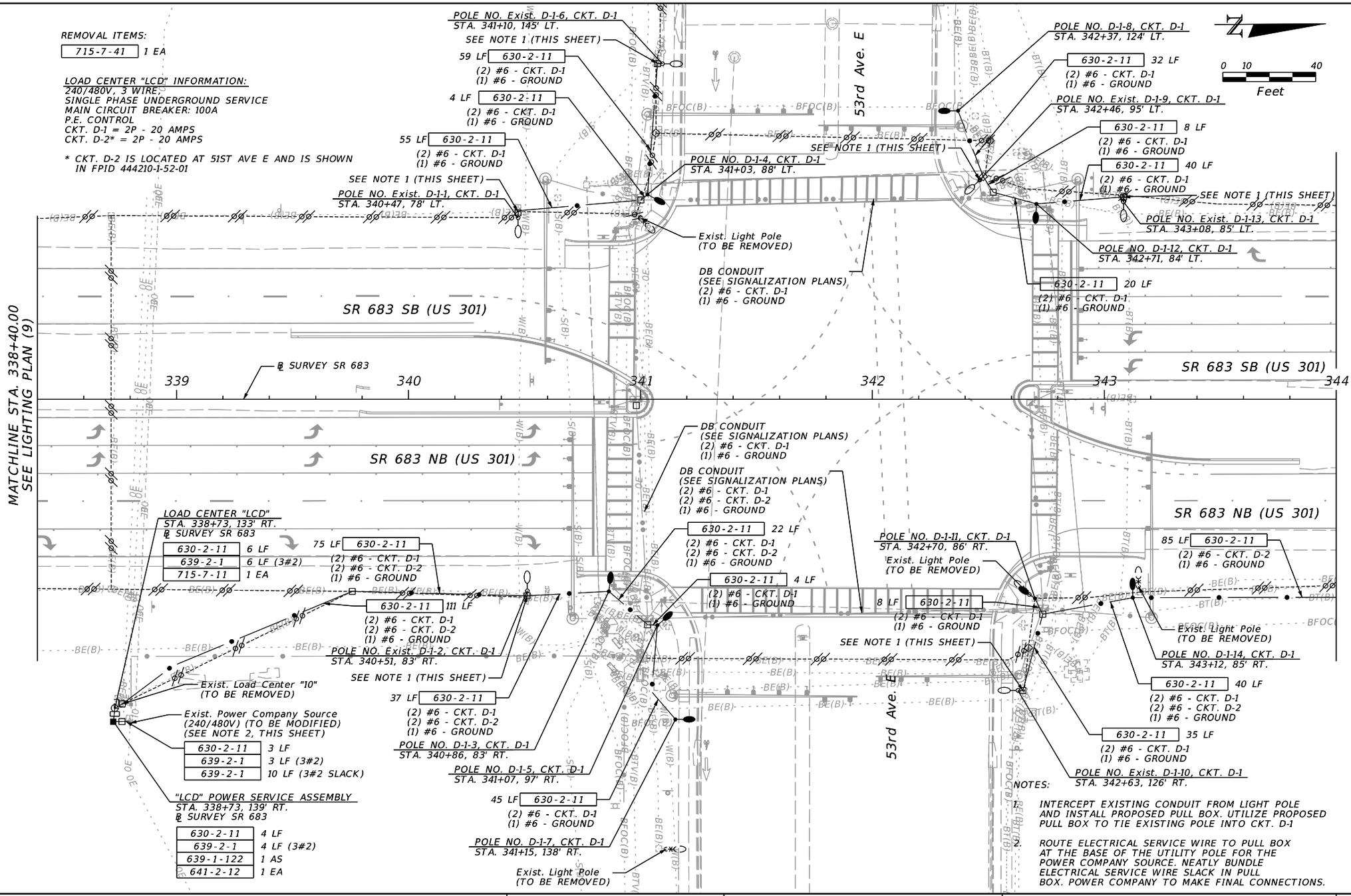
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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (9)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JULIO A. ALEGRE, P.E. LICENSE NUMBER 66265 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO, FL 32801	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-14
					SR 683	MANATEE	445144-1-52-01		

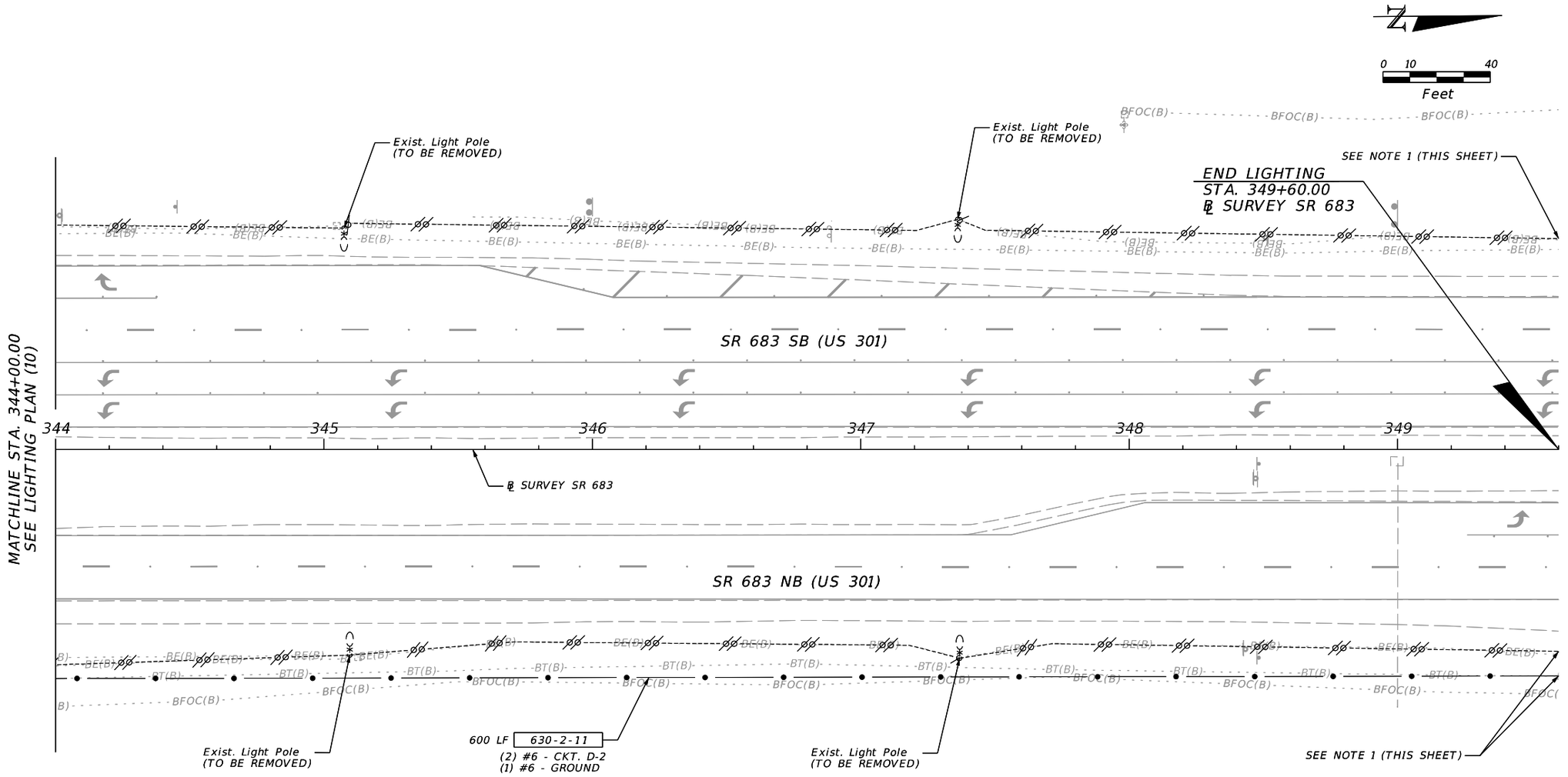
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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (10)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JULIO A. ALEGRE, P.E. LICENSE NUMBER 66265 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO, FL 32801	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-15
					SR 683	MANATEE	445144-1-52-01		

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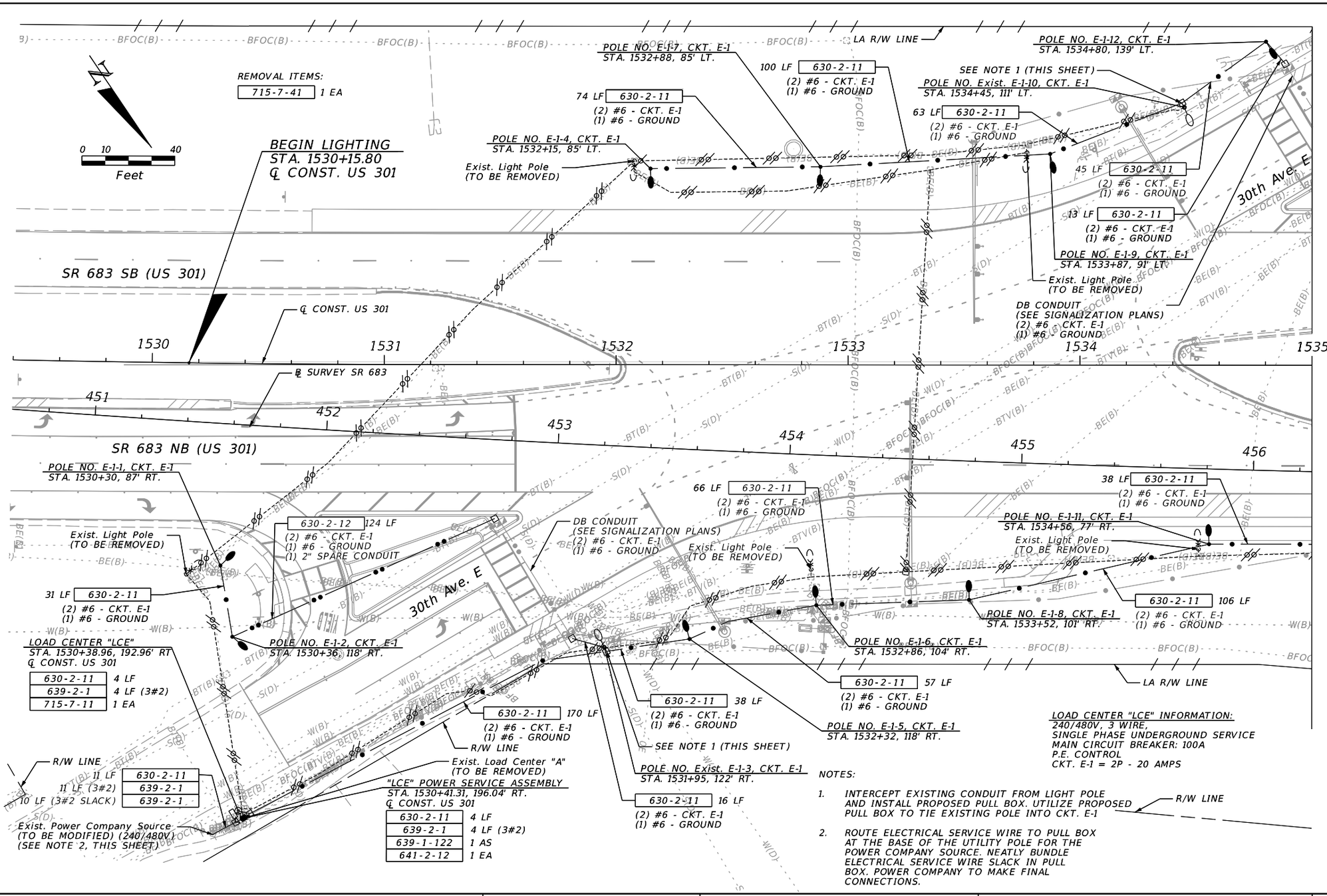
NOTE:

1. REFER TO FPID 444210-1-52-01 FOR THE CONTINUATION OF LIGHTING ALONG THE CORRIDOR.

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (11)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JULIO A. ALEGRE, P.E. LICENSE NUMBER 66265 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO, FL 32801	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-16
					SR 683	MANATEE	445144-1-52-01		

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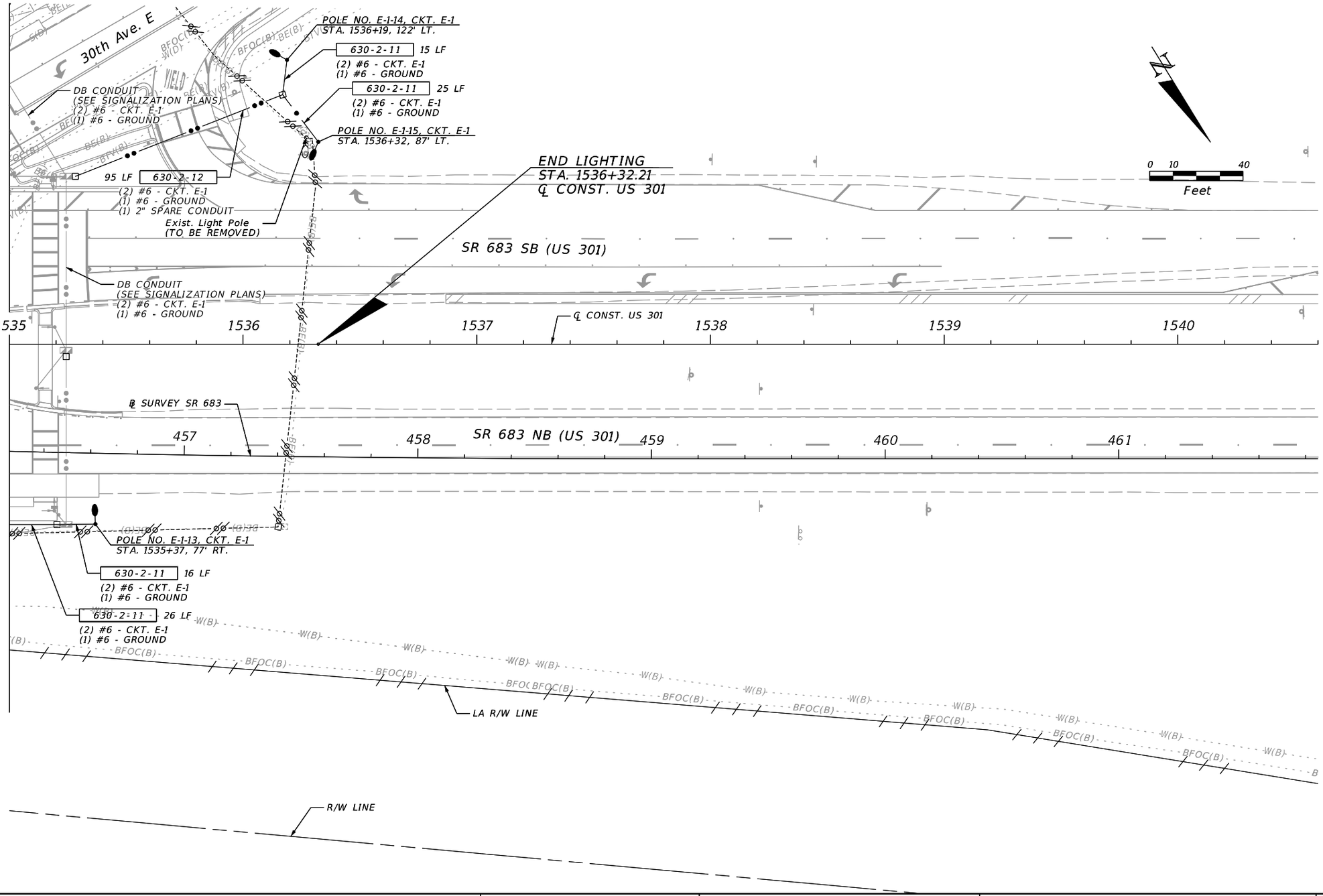
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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (12)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JULIO A. ALEGRE, P.E. LICENSE NUMBER 66265 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO, FL 32801	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-17
					SR 683	MANATEE	445144-1-52-01		

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

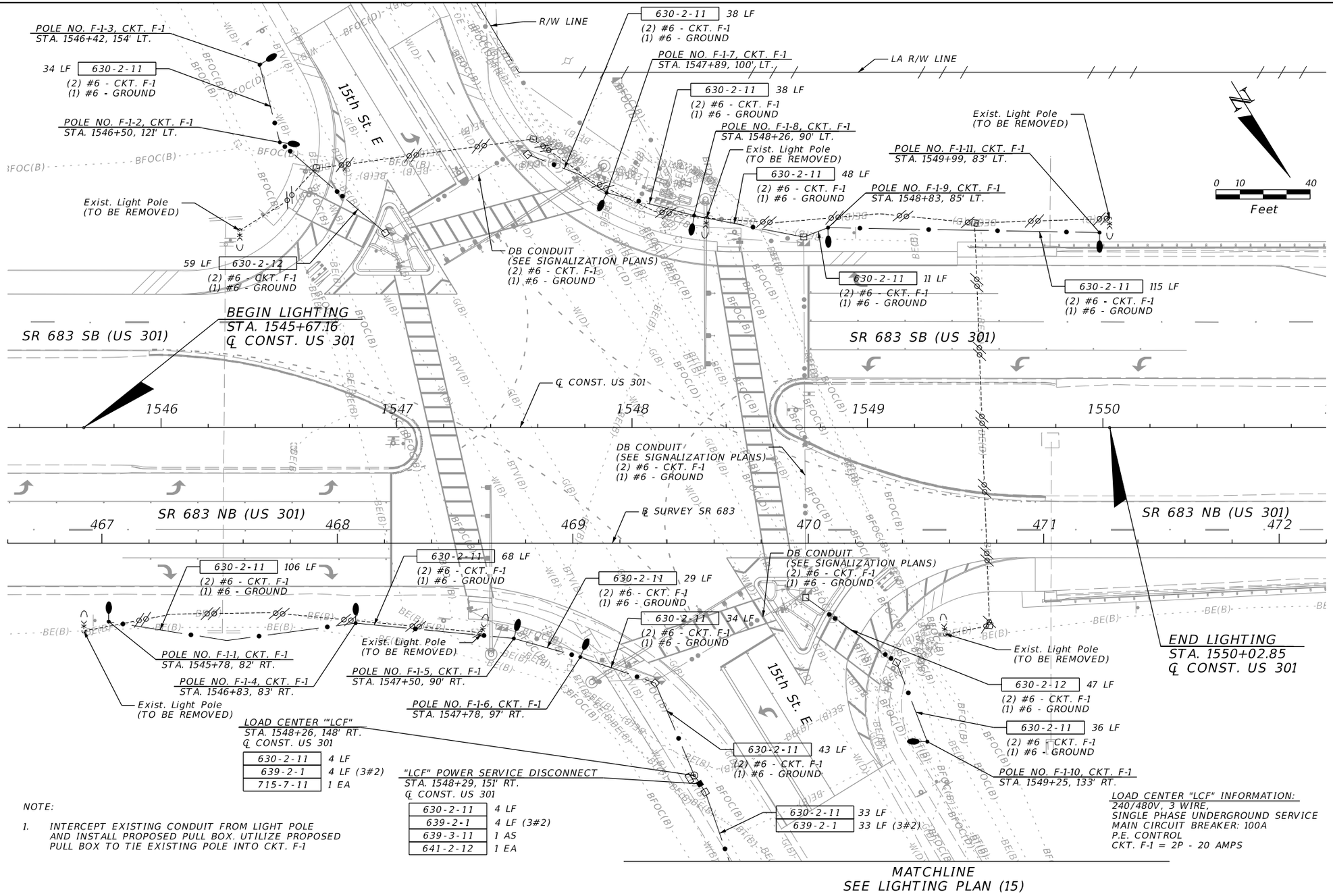
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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (13)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JULIO A. ALEGRE, P.E. LICENSE NUMBER 66265 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO, FL 32801	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-18
					SR 683	MANATEE	445144-1-52-01		



NOTE:

1. INTERCEPT EXISTING CONDUIT FROM LIGHT POLE AND INSTALL PROPOSED PULL BOX. UTILIZE PROPOSED PULL BOX TO TIE EXISTING POLE INTO CKT. F-1

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
JULIO A. ALEGRE, P.E.
LICENSE NUMBER 66265
PROTEAN DESIGN GROUP
100 EAST PINE STREET, SUITE 600
ORLANDO, FL 32801

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

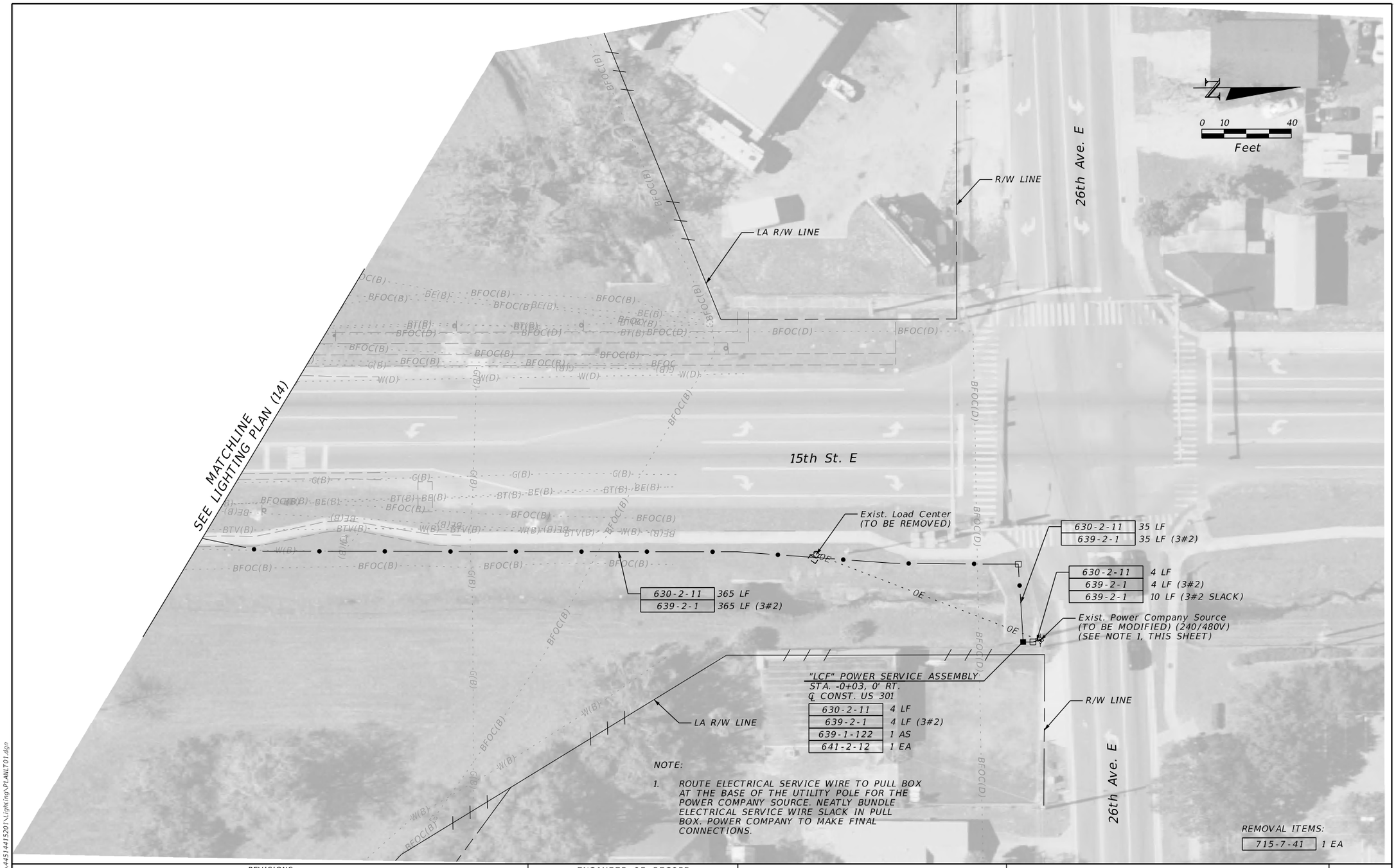
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 683	MANATEE	445144-1-52-01

LIGHTING PLAN (14)

SHEET NO. L-19

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

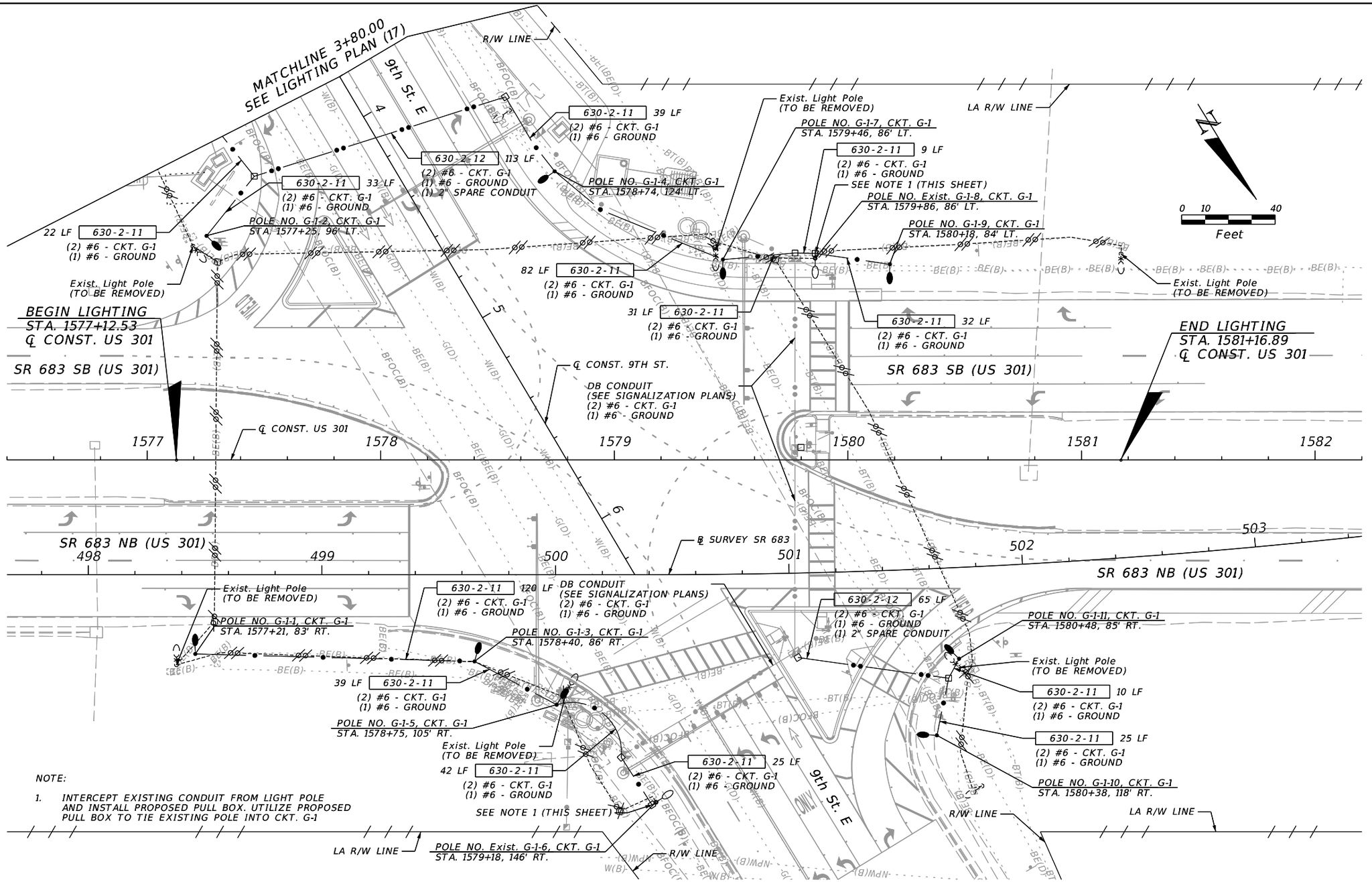
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (15)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JULIO A. ALEGRE, P.E. LICENSE NUMBER 66265 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO, FL 32801	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-20
					SR 683	MANATEE	445144-1-52-01		

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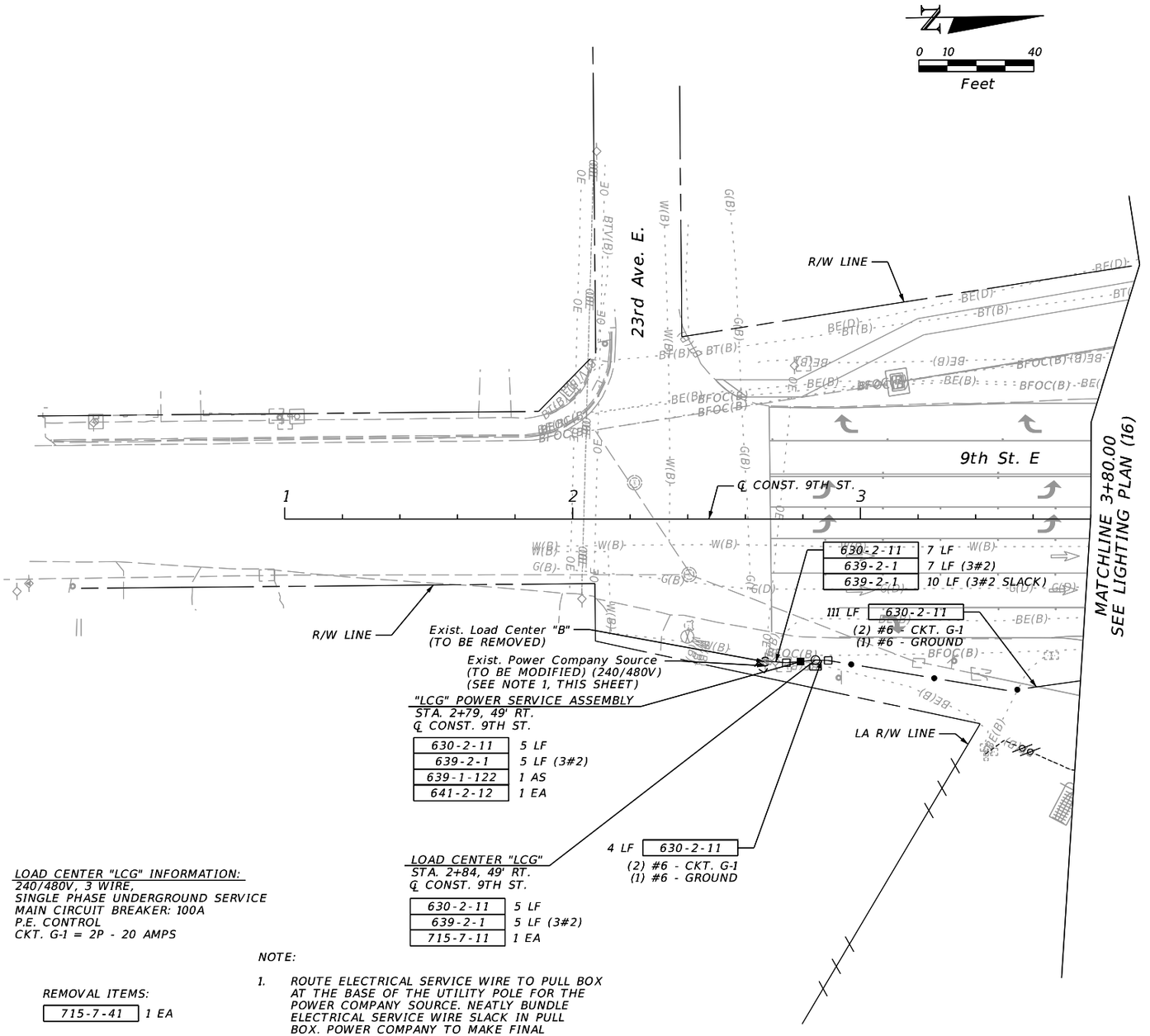
NOTE:

1. INTERCEPT EXISTING CONDUIT FROM LIGHT POLE AND INSTALL PROPOSED PULL BOX. UTILIZE PROPOSED PULL BOX TO TIE EXISTING POLE INTO CKT. G-1

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (16)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JULIO A. ALEGRE, P.E. LICENSE NUMBER 66265 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO, FL 32801	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-21
					SR 683	MANATEE	445144-1-52-01		

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LOAD CENTER "LCG" INFORMATION:
240/480V, 3 WIRE,
SINGLE PHASE UNDERGROUND SERVICE
MAIN CIRCUIT BREAKER: 100A
P.E. CONTROL
CKT. G-1 = 2P - 20 AMPS

REMOVAL ITEMS:

715-7-41	1 EA

NOTE:

1. ROUTE ELECTRICAL SERVICE WIRE TO PULL BOX AT THE BASE OF THE UTILITY POLE FOR THE POWER COMPANY SOURCE. NEATLY BUNDLE ELECTRICAL SERVICE WIRE SLACK IN PULL BOX. POWER COMPANY TO MAKE FINAL CONNECTIONS.

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (17)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JULIO A. ALEGRE, P.E. LICENSE NUMBER 66265 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO, FL 32801	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-22
					SR 683	MANATEE	445144-1-52-01		

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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77TH AVE E / TALLEVAST RD
LOAD CENTER "LCA"
PANELBOARD SCHEDULE
STA. 182+01, 126' LT., ℄ SURVEY SR 683

CKT #	BREAKER	WIRE SIZE	VD MAX	VD% MAX	AMP LOAD	WATT LOAD
A-1	20	#6	0.88	0.18%	5.50	2640
LOAD CENTER "LCA" TOTALS					5.50	2640
LOAD CENTER "LCA" TOTAL @ 25% CONTINUOUS LOAD					6.88	3300
SERVICE MAIN DISCONNECT					100A	
SERVICE VOLTAGE					480V	

69TH AVE E / WHITFIELD AVE
LOAD CENTER "LCB"
PANELBOARD SCHEDULE
STA. 235+46, 119' LT., ℄ SURVEY SR 683

CKT #	BREAKER	WIRE SIZE	VD MAX	VD% MAX	AMP LOAD	WATT LOAD
B-1	20	#6	1.37	0.28%	6.50	3120
LOAD CENTER "LCB" TOTALS					6.50	3120
LOAD CENTER "LCB" TOTAL @ 25% CONTINUOUS LOAD					8.13	3900
SERVICE MAIN DISCONNECT					100A	
SERVICE VOLTAGE					480V	

53RD AVE E
LOAD CENTER "LCD"
PANELBOARD SCHEDULE
STA. 338+73, 139' RT., ℄ SURVEY SR 683

CKT #	BREAKER	WIRE SIZE	VD MAX	VD% MAX	AMP LOAD	WATT LOAD
D-1	20	#6	0.56	2.74%	7.00	3360
D-2*	20	#6	11.16	2.32%	6.00	2880
LOAD CENTER "LCD" TOTALS					13.00	6240
LOAD CENTER "LCD" TOTAL @ 25% CONTINUOUS LOAD					16.25	7800
SERVICE MAIN DISCONNECT					100A	
SERVICE VOLTAGE					480V	

*CIRCUIT IS LOCATED AT 51ST AVE E AND IS SHOWN IN FPID 444210-1-52-01

30TH AVE E
LOAD CENTER "LCE"
PANELBOARD SCHEDULE
STA.1530+41, 196' RT., ℄ CONST. US 301

CKT #	BREAKER	WIRE SIZE	VD MAX	VD% MAX	AMP LOAD	WATT LOAD
E-1	20	#6	4.02	0.86%	7.50	3600
LOAD CENTER "LCE" TOTALS					7.50	3600
LOAD CENTER "LCE" TOTAL @ 25% CONTINUOUS LOAD					9.38	4500
SERVICE MAIN DISCONNECT					100A	
SERVICE VOLTAGE					480V	

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
JULIO A. ALEGRE, P.E.
LICENSE NUMBER 66265
PROTEAN DESIGN GROUP
100 EAST PINE STREET, SUITE 600
ORLANDO, FL 32801

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 683	MANATEE	445144-1-52-01

PANELBOARD SCHEDULE

SHEET NO.
L-23

15TH ST E
LOAD CENTER "LCF"
PANELBOARD SCHEDULE
STA.1548+29, 29' RT., ℄ CONST. US 301

CKT #	BREAKER	WIRE SIZE	VD MAX	VD% MAX	AMP LOAD	WATT LOAD
F-1	20	#6	1.30	0.25%	5.50	2640
LOAD CENTER "LCF" TOTALS					5.50	2640
LOAD CENTER "LCF" TOTAL @ 25% CONTINUOUS LOAD					6.88	3300
SERVICE MAIN DISCONNECT					100A	
SERVICE VOLTAGE					480V	

9TH ST E
LOAD CENTER "LCG"
PANELBOARD SCHEDULE
STA. 2+84, 49' RT., ℄ CONST. 9TH ST

CKT #	BREAKER	WIRE SIZE	VD MAX	VD% MAX	AMP LOAD	WATT LOAD
G-1	20	#6	2.76	0.57%	5.50	2640
LOAD CENTER "LCG" TOTALS					5.50	2640
LOAD CENTER "LCG" TOTAL @ 25% CONTINUOUS LOAD					6.88	3300
SERVICE MAIN DISCONNECT					100A	
SERVICE VOLTAGE					480V	

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
JULIO A. ALEGRE, P.E.
LICENSE NUMBER 66265
PROTEAN DESIGN GROUP
100 EAST PINE STREET, SUITE 600
ORLANDO, FL 32801

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 683	MANATEE	445144-1-52-01

PANELBOARD SCHEDULE

SHEET NO.
L-24