

**CONTRACT PLANS COMPONENTS**

- ROADWAY
- SIGNING AND PAVEMENT MARKING
- SIGNALIZATION
- LIGHTING

**INDEX OF LIGHTING PLANS**

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*L-7	LOAD CENTER PANELBOARD SCHEDULE

\*TO BE PROVIDED WITH NEXT PHASE SUBMITTAL

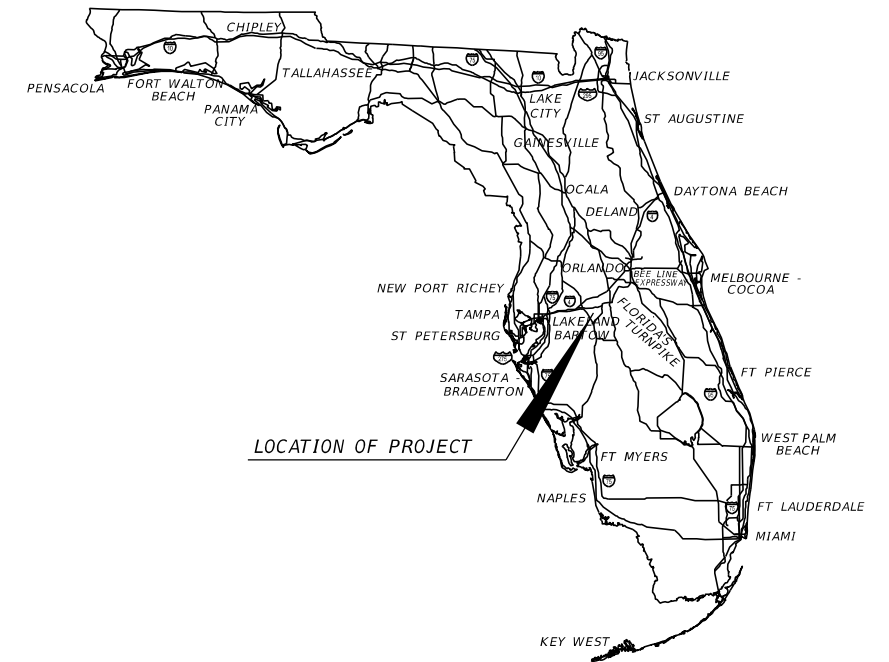
**STATE OF FLORIDA**  
**DEPARTMENT OF TRANSPORTATION**

**LIGHTING PLANS**

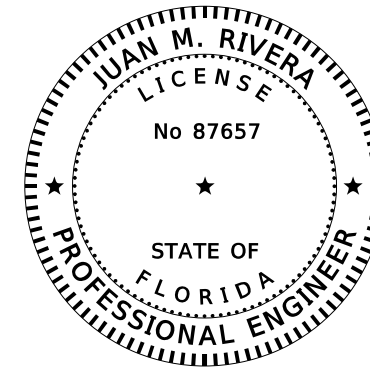
**FINANCIAL PROJECT ID 446535-1-52-01**  
**(FEDERAL FUNDS)**  
**POLK COUNTY (16140)**

**STATE ROAD NO. 544 (HAVENDALE BLVD.)**  
**SIDEWALK IMPROVEMENTS FROM LAKE BLUE DR. TO 26TH STREET NW**

PROJECT LOCATION URL:	<a href="https://tinyurl.com/yc2j3hwk">https://tinyurl.com/yc2j3hwk</a>
PROJECT LIMITS:	BEGIN MP 0.644 - END MP 1.636
EXCEPTIONS:	NONE
BRIDGE LIMITS:	NONE
RAILROAD CROSSING:	NONE



PHASE IIR PLANS - SEPTEMBER 2024



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:**

JUAN M. RIVERA, P.E. NO.: 87657  
AVANT ENGINEERING GROUP, LLC  
2699 LEE ROAD, SUITE 401  
WINTER PARK, FL 32789  
(407) 775-2209  
CONTRACT NO.: CA026  
VENDOR NO.: 833811146-01

**FDOT PROJECT MANAGER:**

AHMAD ABDELLATIF

**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>

APPLICABLE IRs: N/A

**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>

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
	26	

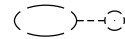


LEGEND



PROPOSED UTILITY CONFLICT LIGHT POLE. SYMBOL INCLUDES POLE, FIXTURE, FOUNDATION, SLAB, FRANGIBLE/BREAKAWAY TRANSFORMER BASE, TRUSS ARM, AND POLE CABLE DISTRIBUTION. POLE CABLE DISTRIBUTION AND ROADSIDE PULL BOX TO BE PAID SEPARATELY.

715-65-266 715-500-1



EXISTING LIGHT POLE TO REMAIN.



EXISTING LIGHT POLE TO BE REMOVED BY OTHERS.



PROPOSED LOAD CENTER. 715-7-11



2" CONDUIT (WITH PULL STRINGS), OPEN TRENCH, UNDERGROUND. INCLUDES CONDUCTORS AS SHOWN IN PLANS. 630-2-11 715-1-12



2" CONDUIT (WITH PULL STRINGS), DIRECTIONAL BORE, UNDERGROUND. EXTEND CONDUIT BEYOND EDGE OF PAVEMENT TO PULL BOXES. INCLUDES CONDUCTORS AS SHOWN IN PLANS.

630-2-12 715-1-12



PROPOSED ROADSIDE LIGHTING PULL BOX WITH APRON. 635-2-14

LIGHTING DESIGN CRITERIA

SIGNALIZED INTERSECTION - LIGHTING RETROFIT

ILLUMINATION LEVEL AVERAGE FOOT CANDLE

LIGHTING RECONSTRUCTION - HORIZONTAL - 1.5 STD, 1.0 MIN F.C.

LIGHTING RECONSTRUCTION - VERTICAL - 1.5 STD, 1.0 MIN F.C.

ILLUMINATION UNIFORMITY RATIOS

AVG/MIN - 4:1 OR LESS

MAX/MIN - 10:1 OR LESS

DESIGN WIND SPEED - 160 MPH

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING LEGEND	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JUAN M. RIVERA, P.E. LICENSE NUMBER: 87657 AVANT ENGINEERING GROUP, LLC 2699 LEE ROAD, SUITE 401 WINTER PARK, FL 32789		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-3
						SR 544	POLK	446535-1-52-01		

## LIGHTING DATA TABLE

POLE NO.	STATION	POLE SETBACK / SIDE FROM BASELINE	CIRCUIT	MOUNTING HEIGHT (FT)	ARM LENGTH (FT)	INPUT WATTS (W)	LUMINAIRE TYPE	LUMINAIRE MODEL	FOUNDATION TYPE	MAINTAINING AGENCY	PAY ITEM	WORK DESCRIPTION
1	156+57	47.9' RT	A-1	35	16	118	Cobrahead	ATBM_P30_MVOLT_R3_3K	STD. SPREAD FOOTING	FDOT D1	715-65-266	Proposed new utility conflict light pole.
2	163+84	48.8' RT	A-2	35	16	118	Cobrahead	ATBM_P30_MVOLT_R3_3K	STD. SPREAD FOOTING	FDOT D1	715-65-266	Proposed new utility conflict light pole.
3	164+75	52.9' LT	A-2	35	16	118	Cobrahead	ATBM_P30_MVOLT_R3_3K	STD. SPREAD FOOTING	FDOT D1	715-65-266	Proposed new utility conflict light pole.
4	165+36	88.3' RT	A-2	35	16	118	Cobrahead	ATBM_P30_MVOLT_R3_3K	STD. SPREAD FOOTING	FDOT D1	715-65-266	Proposed new utility conflict light pole.

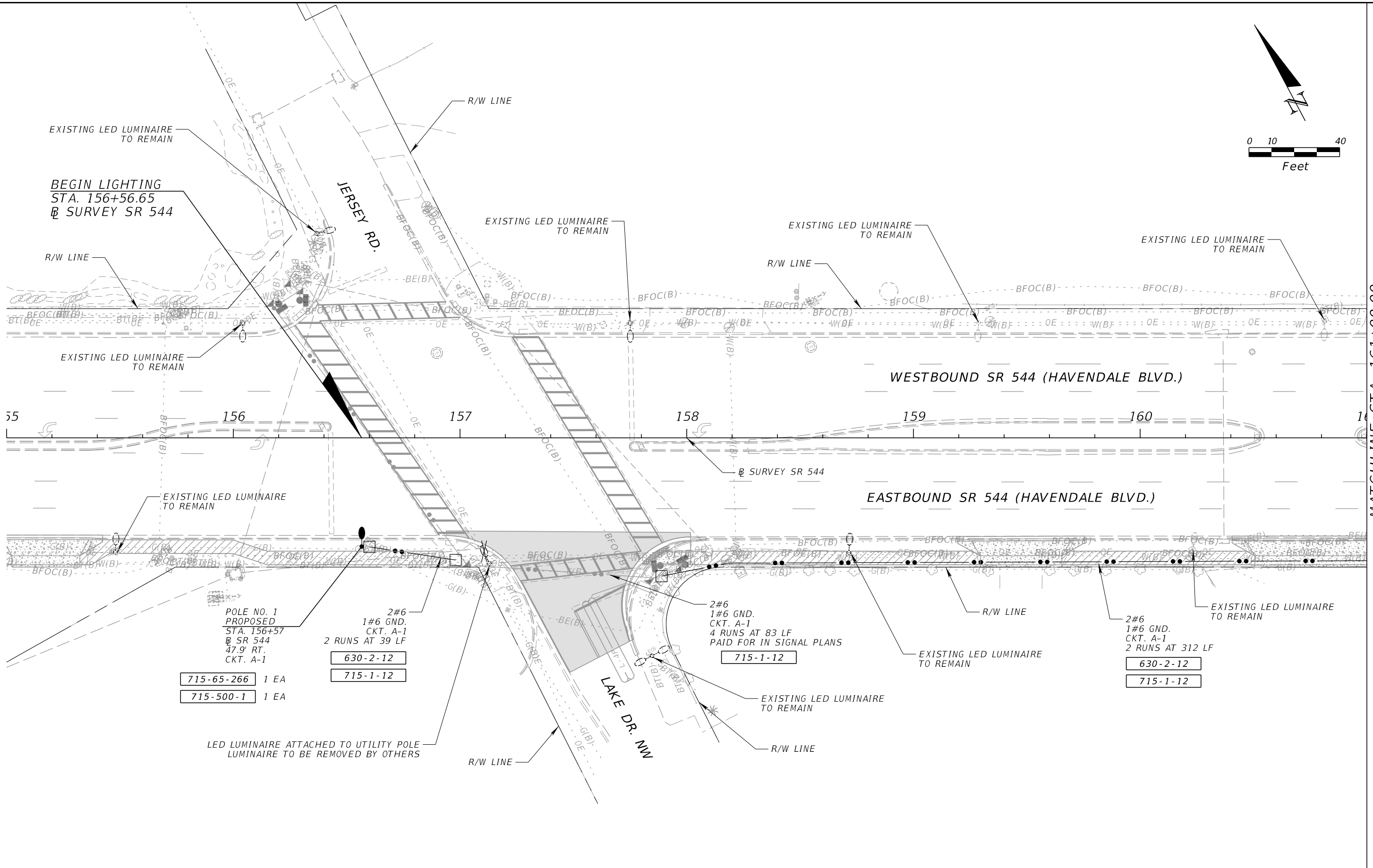
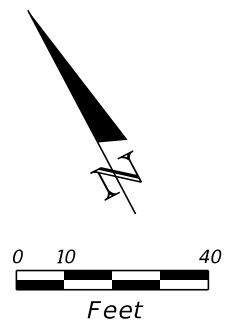
**NOTES:**

1. ALL LIGHT POLES' STATIONS ARE BASED OF @ SURVEY SR 544.
2. PROPOSED LIGHTING LUMINAIRES SHALL HAVE A CORRELATED COLOR TEMPERATURE (CCT) OF 3000K.
3. LUMINAIRE SPECIFICATIONS:  
 ATBM\_P30\_MVOLT\_R3\_3K  
 LUMEN OUTPUT: 15,500  
 B-U-G RATING: 2-0-3

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>LIGHTING DATA TABLE</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JUAN M. RIVERA, P.E. LICENSE NUMBER: 87657 AVANT ENGINEERING GROUP, LLC 2699 LEE ROAD, SUITE 401 WINTER PARK, FL 32789		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-4
						SR 544	POLK	446535-1-52-01		

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POLE NO. 1  
PROPOSED  
STA. 156+57  
SR 544  
47.9' RT.  
CKT. A-1

2#6  
1#6 GND.  
CKT. A-1  
2 RUNS AT 39 LF

715-65-266 1 EA  
715-500-1 1 EA

630-2-12  
715-1-12

2#6  
1#6 GND.  
CKT. A-1  
4 RUNS AT 83 LF  
PAID FOR IN SIGNAL PLANS

715-1-12

2#6  
1#6 GND.  
CKT. A-1  
2 RUNS AT 312 LF

630-2-12  
715-1-12

LED LUMINAIRE ATTACHED TO UTILITY POLE  
LUMINAIRE TO BE REMOVED BY OTHERS

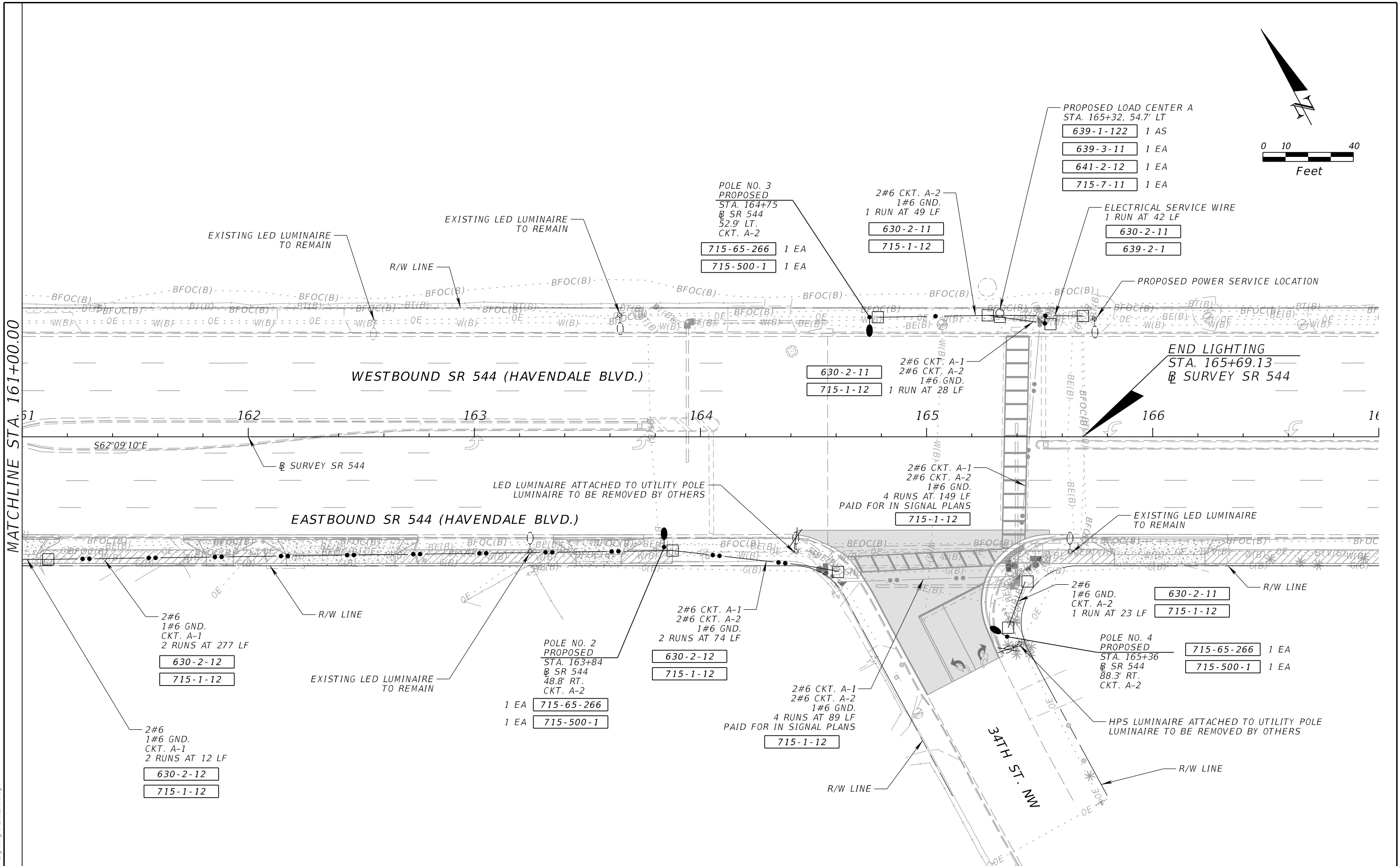
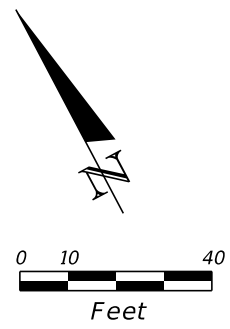
MATCHLINE STA. 161+00.00

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DATE	DESCRIPTION	DATE	DESCRIPTION	JUAN M. RIVERA, P.E. LICENSE NUMBER: 87657 AVANT ENGINEERING GROUP, LLC 2699 LEE ROAD, SUITE 401 WINTER PARK, FL 32789			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
							SR 544	LEE	446535-1-52-01	L-5

**LIGHTING PLAN (1)**



REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.  L-6
DATE	DESCRIPTION	DATE	DESCRIPTION	JUAN M. RIVERA, P.E. LICENSE NUMBER: 87657 AVANT ENGINEERING GROUP, LLC 2699 LEE ROAD, SUITE 401 WINTER PARK, FL 32789		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 544	LEE	4465351-52-01	

**LIGHTING PLAN (2)**

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