CONTRACT PLANS COMPONENTS

ROADWAY SIGNING AND PAVEMENT MARKING SIGNALIZATION LIGHTING

INDEX OF LIGHTING PLANS

SHEET NO. SHEET DESCRIPTION

L-1 KEY SHEET GENERAL NOTES L-2 LIGHTING LEGEND 1-3 L-4 LIGHTING DATA TABLE L-5 - L-6 LIGHTING PLAN

LOAD CENTER PANELBOARD SCHEDULE *L-7

*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

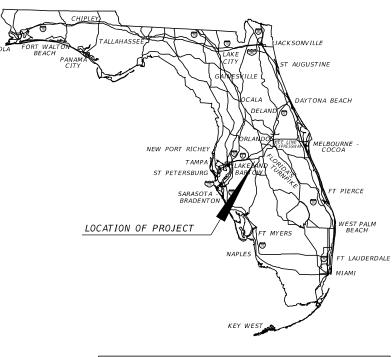
PROJECT LOCATION URL: https://tinyurl.com/yc2j3hwk

PROJECT LIMITS: BEGIN MP 0.644 - END MP 1.636

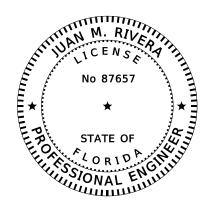
EXCEPTIONS: NONE

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

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

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

			28
CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.	FICIAL
	26		THE OF

ECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER

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

GENERAL NOTES

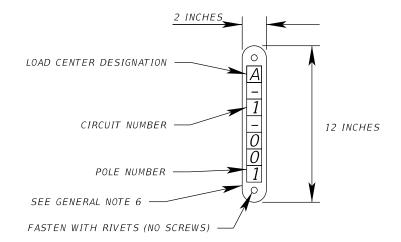
UPON COMPLETION OF CONSTRUCTION, THE LIGHTING SYSTEM WILL BE MAINTAINED BY:

FDOT DISTRICT 1 MAINTENANCE SOUTHWEST AREA OFFICE 10041 DANIELS PARKWAY FT. MYERS, FLORIDA 33913 (239) 225-1900

- PRIOR TO ANY EQUIPMENT ORDER, SUBMIT FOR APPROVAL EQUIPMENT SPECIFICATIONS OR DESIGN DATA FOR ALL MATERIAL PROPOSED FOR THE PROJECT. IF OTHER THAN THE BASIS OF DESIGN IS PROPOSED, THESE MUST SPECIFICALLY INCLUDE:
 - LUMINAIRE PHOTOMETRICS
 - POLE STRENGTH CALCULATIONS
 - POLE FRANGIBILITY TEST
 - BOLT SPECIFICATIONS AND BOLT CIRCLE DIAMETER
 - POLE SHOP DRAWINGS

FOUR (4) COPIES OF SHOP DRAWINGS AND DESIGN DATA FOR ROADWAY. LIGHTING EQUIPMENT SHALL BE SUBMITTED TO THE ENGINEER OF RECORD IN ACCORDANCE WITH THE SPECIFICATIONS.

- 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) AND ARE SHOWN AS NOTICE THAT UNDERGROUND UTILITIES EXIST. NOTIFY THE UTILITY COMPANY OWNER(S) FOR LOCATION AND STAKING OF UNDERGROUND FACILITIES BEFORE EXCAVATING.
- SHOP DRAWING SUBMITTAL DATA SHALL INCLUDE A COMPUTER PRINTOUT SHOWING HORIZONTAL AND VERTICAL FOOT-CANDLE LEVELS TO BE OBTAINED USING THE SUBMITTED LUMINAIRES ON THIS PROJECT. IF OTHER THAN THE BASIS OF DESIGN, AT FINAL INSPECTION VERIFY THE HORIZONTAL FOOT-CANDLE LEVELS ON THE ROADWAY WITH AN APPROVED CURRENTLY CALIBRATED LIGHT METER, AND SUBMIT
- IN ACCORDANCE WITH N.E.C, IDENTIFY ALL CIRCUITS AND EQUIPMENT WITH "LAMACOID TAGS". INSTALL SIMILAR TAGS OF STAINLESS STEEL IDENTIFYING CIRCUIT FOR EACH LUMINAIRE AT ACCESS HANDHOLE FOR EACH ROADWAY LIGHTING POLE.
- FURNISH AND INSTALL A 2"X12" TAG NUMBER FOR EACH POLE AS INDICATED ON THE POLE DATA SHEET. POLE NUMBER SHALL BE PLACED AT APPROXIMATELY BREAST HEIGHT, 45 DEGREES FROM PERPENDICULAR TO ROADWAY AND VISIBLE IN THE DIRECTION OF THE TRAVEL LANE. THREE DIGIT NUMBER SHALL BE PLACED VERTICAL.
- AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE WITHIN 2' OF THE LIGHTING POLE FOUNDATIONS OR CONDUIT RUN, HAND DIG THE FIRST 4' OF THE HOLE FOR THE POLE FOUNDATION AND CONDUIT RUN.
- PREPARE ACCURATELY DIMENSIONED "AS BUILT" PLANS OF FINAL POLE, CONTROLLER AND CONDUIT LOCATIONS. "AS BUILT" PLANS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO FINAL ACCEPTANCE. AFTER THE "AS BUILT" PLANS ARE APPROVED, SUBMIT TWO COPIES TO THE RESIDENT ENGINEER AND ONE COPY TO FDOT DISTRICT 1 MAINTENANCE. COST OF SUCH PREPARATIONS SHALL BE INCIDENTAL TO PAY ITEMS PROVIDED.
- SEE ROADWAY PLANS FOR UTILITY CONTACT INFORMATION.
- THE BASIS OF DESIGN USED WAS: MANUFACTURER: AMERICAN ELECTRIC LIGHTING - MODEL: AUTOBAHN SERIES ATBM
- CURVE: ATBM P30 MVOLT R3 3K



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

GENERAL NOTES

SHEET NO.

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 APRONB. 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

IHIS SHEEI IS IHE ELECIKUNIC FILE DIGIIALLY SIGNED AND SEALED UNDER KULE 61615-23.0

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

LIGHTING LEGEND

SHEET NO.

	LIGHTING DATA TABLE											
POLE STATION SIDE FROM CIRCUIT HEIGHT LENGTH WATTS TYPE LUMINAIRE MODEL FOUNDATION TYPE MAINTAINING AGENCY PAY ITEM WORK DES					WORK DESCRIPTION							
1	156+57	47.9' RT	A-1	35	16	118	Cobrahead	ATBM_P30_MV0LT_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_MV0LT_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_MV0LT_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_MV0LT_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 OUTPŪT: 15,500 B-U-G_RATING: 2-0-3

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

LIGHTING DATA TABLE

SHEET NO.

L-4

