

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

CONTRACT PLANS COMPONENTS

- ROADWAY PLANS
- SIGNING AND PAVEMENT MARKING PLANS
- SIGNALIZATION PLANS
- LIGHTING PLANS
- SPECIFIC PURPOSE/TOPOGRAPHIC SURVEY (FOR INFORMATION ONLY)

INDEX OF LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
L-1	KEY SHEET
T-2	TABULATION OF QUANTITIES
L-3 - L-4	LIGHTING PLANS

COUNTY OF PALM BEACH
STATE OF FLORIDA
LYONS RD. AND BOYNTON BEACH BLVD.

INTERSECTION IMPROVEMENTS
LIGHTING PLANS

BOARD OF COUNTY COMMISSIONERS
PROJECT NO. 2020110

MARIA G. MARINO
(MAYOR)
DISTRICT 1

GREGG K. WEISS
DISTRICT 2

MARCI WOODWARD
DISTRICT 4

SARA BAXTER
(VICE MAYOR)
DISTRICT 6



JOEL G FLORES
DISTRICT 3

MARIA SACHS
DISTRICT 5

BOBBY POWELL, JR
DISTRICT 7

100% SUBMITTAL

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2024-25 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:

State of Florida Department of Transportation Standard Specifications, FY 2024-25 and supplements thereto if noted in the special provisions for this project.

ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT THE ATTACHED PLANS AND DESIGN ARE IN SUBSTANTIAL COMPLIANCE WITH THE DESIGN STANDARDS AND CRITERIA IN EFFECT ON THIS DATE FOR PALM BEACH COUNTY ENGINEERING DEPARTMENT AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION.

APPROVED BY: DILNAHAR H SHUVO, P.E.

DATE: 11/7/2025

P.E. NO.: FL REGISTRATION NO. 92997

TS 46015



PROPEL ENGINEERING, LLC.
2711 N VISTA PARKWAY., SUITE NO. B-7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

DILNAHAR H SHUVO
P.E.# 92997

No.	Revisions	By	Date



PALM BEACH COUNTY
ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION
P.O. BOX 21229, WEST PALM BEACH, FLORIDA

SCALE: N.T.S.
APPROVED: DS
DRAWN: IA
CHECKED: DS
DATE: 11/7/2025

LYONS RD. AND BOYNTON BEACH BLVD

INTERSECTION IMPROVEMENTS

KEY SHEET

SHEET: T-1
OF: L-4
PROJECT NO.
2020110

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TABULATION OF QUANTITIES								
PAY ITEM NO.	DESCRIPTION	UNIT	L-3		TOTAL THIS SHEET		GRAND TOTAL	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
715 11 211 L1	Furnish and Install 175 Watt LED Cobrahead Luminaire	EA	1		1		1	
715 68000	LIGHT POLE COMPLETE, RELOCATE	EA	1		1		1	



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ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION
P.O. BOX 21229, WEST PALM BEACH, FLORIDA

SCALE: N.T.S.
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LYONS RD. AND BOYNTON BEACH BLVD
INTERSECTION IMPROVEMENTS
TABULATION OF QUANTITIES

SHEET: L-2
OF: L-4
PROJECT NO.
2020110

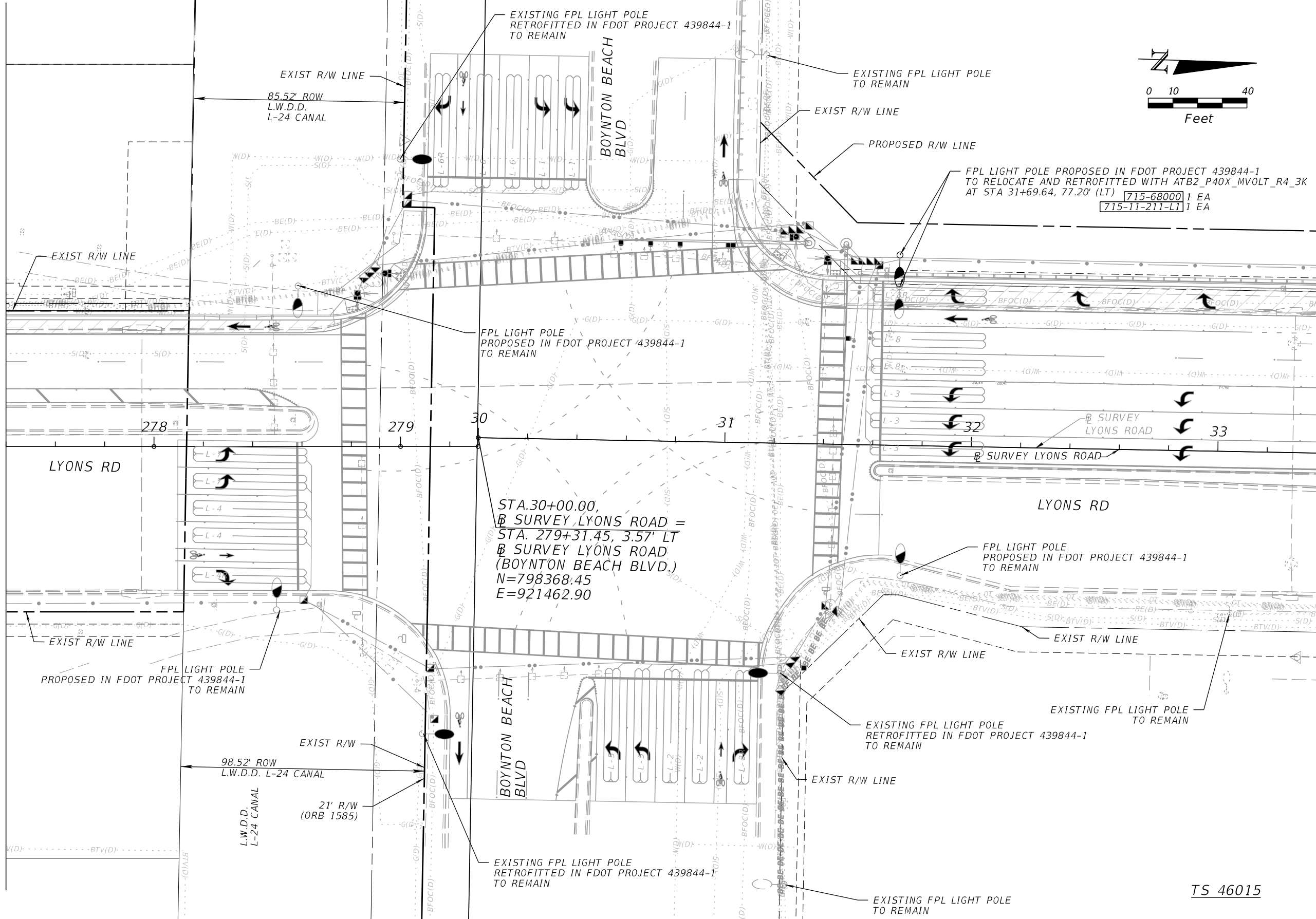
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ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION
P.O. BOX 21229, WEST PALM BEACH, FLORIDA

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LYONS RD. AND BOYNTON BEACH BLVD
INTERSECTION IMPROVEMENTS
LIGHTING PLAN

SHEET: L-3
OF: L-4
PROJECT NO.
2020110

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LYONS RD. AND BOYNTON BEACH BLVD
INTERSECTION IMPROVEMENTS

LIGHTING PLAN

SHEET: L-4

OF: L-4

PROJECT NO.
2020110

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DESIGN CRITERIA

FDOT INTERSECTION RETROFIT

AVERAGE INITIAL ILLUMINANCE (H.F.C) 1.5 STD/1.0 MIN FOOT CANDLES
AVERAGE INITIAL ILLUMINANCE (V.F.C) 1.5 STD/1.0 MIN FOOT CANDLES
UNIFORMITY RATIO AVG./MIN. 4:1 OR LESS
MAX./MIN. 10:1 OR LESS
DESIGN WIND SPEED 160 MPH

FDOT CORRIDOR LIGHTING

AVERAGE INITIAL ILLUMINANCE (H.F.C) 1.0 - 1.5 FOOT CANDLES
AVERAGE INITIAL ILLUMINANCE (V.F.C) N/A
UNIFORMITY RATIO AVG./MIN. 4:1 OR LESS
MAX./MIN. 10:1 OR LESS
DESIGN WIND SPEED 160 MPH

CORRELTED COLOR TEMPERATURE

≤50 MPH 3000K

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
LYONS RD & BOYNTON BEACH BLVD INTERSECTION	Illuminance	Fc	1.63	5.2	0.60	2.72	8.67
EASTBOUND CROSSWALK ON BOYNTON BEACH BLVD	Illuminance	Fc	1.53	1.9	1.10	1.39	1.73
WESTBOUND CROSSWALK ON BOYNTON BEACH BLVD	Illuminance	Fc	1.85	2.0	1.50	1.23	1.33
SOUTHBOUND CROSSWALK ON LYONS RD	Illuminance	Fc	2.08	2.2	1.90	1.09	1.16
NORTHBOUND CROSSWALK ON LYONS RD	Illuminance	Fc	1.79	1.9	1.40	1.28	1.36