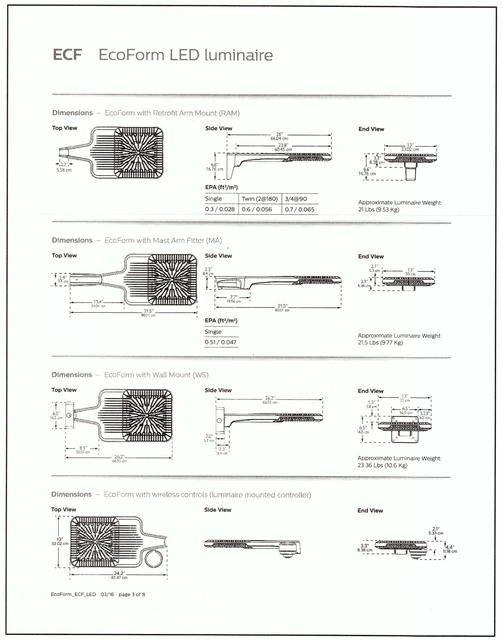
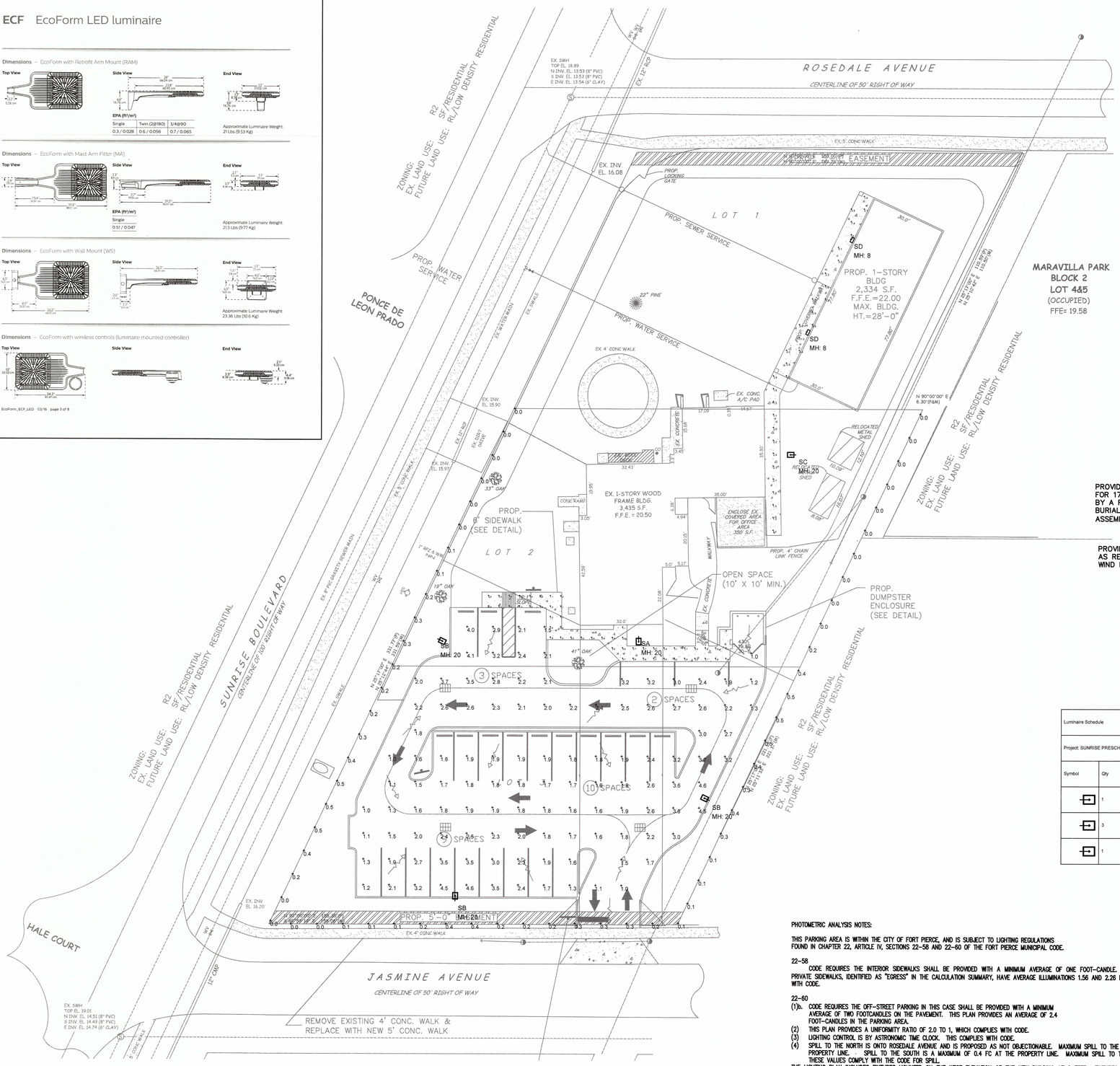
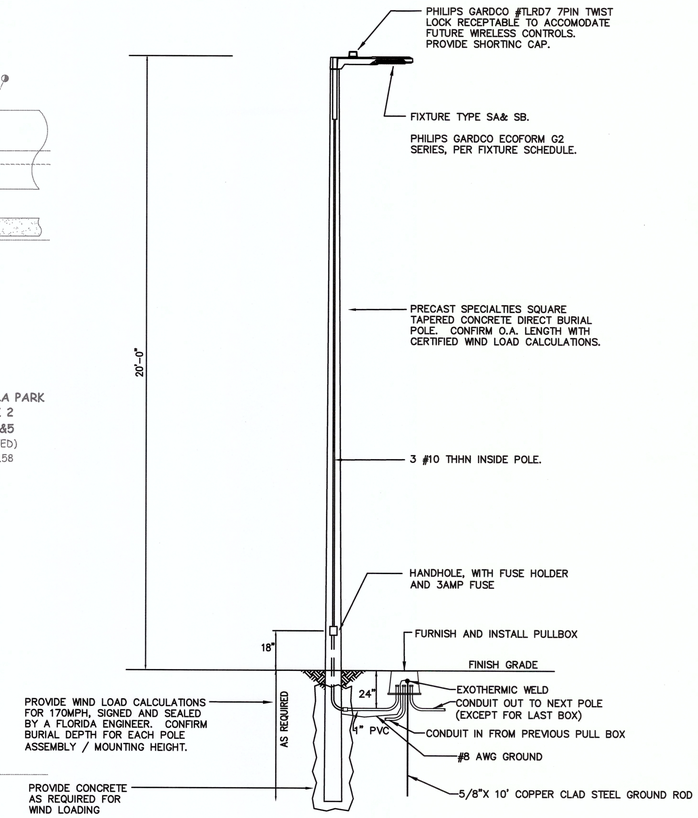




ELECTRICAL SITE PLAN



LIGHT POLE DETAIL "SA" & "SB"

N.T.S.

Luminaire Schedule

Project: SUNRISE PRESCHOOL SITE REV1 08-27-2018

Symbol	Qty	Label	Description	Lumens/Lamp	LLD	LDD	BF	LLF	Lum. Watts	Total Watts
	1	SA	PHILIPS GARDCO ECF-S-32L-1A-NW-G2-3-HIS POLE MOUNT 20' AFG	N.A.	0.900	0.900	1.000	0.810	110.7	110.7
	3	SB	PHILIPS GARDCO ECF-S-48L-1A-NW-G2-4-HIS POLE MOUNT 20' AFG	N.A.	0.900	0.900	1.000	0.810	161	483
	1	SC	PHILIPS GARDCO ECF-S-32L-530-NW-G2-2-HIS POLE MOUNT 20' AFG	N.A.	0.900	0.900	1.000	0.810	54	54

PHOTOMETRIC ANALYSIS NOTES:

THIS PARKING AREA IS WITHIN THE CITY OF FORT PIERCE, AND IS SUBJECT TO LIGHTING REGULATIONS FOUND IN CHAPTER 22, ARTICLE IV, SECTIONS 22-58 AND 22-60 OF THE FORT PIERCE MUNICIPAL CODE.

22-58

CODE REQUIRES THE INTERIOR SIDEWALKS SHALL BE PROVIDED WITH A MINIMUM AVERAGE OF ONE FOOT-CANDLE. THE TWO INTERIOR PRIVATE SIDEWALKS, IDENTIFIED AS "EGRESS" IN THE CALCULATION SUMMARY, HAVE AVERAGE ILLUMINATIONS 1.56 AND 2.26 FC. THIS COMPLIES WITH CODE.

22-60

(1)b. CODE REQUIRES THE OFF-STREET PARKING IN THIS CASE SHALL BE PROVIDED WITH A MINIMUM AVERAGE OF TWO FOOTCANDLES ON THE PAVEMENT. THIS PLAN PROVIDES AN AVERAGE OF 2.4 FOOT-CANDLES IN THE PARKING AREA.

(2) THIS PLAN PROVIDES A UNIFORMITY RATIO OF 2.0 TO 1, WHICH COMPLIES WITH CODE.

(3) LIGHTING CONTROL IS BY ASTRONOMIC TIME CLOCK. THIS COMPLIES WITH CODE.

(4) SPILL TO THE NORTH IS ONTO ROSEDALE AVENUE AND IS PROPOSED AS NOT OBJECTIONABLE. MAXIMUM SPILL TO THE EAST IS 0.5 AT THE PROPERTY LINE. SPILL TO THE SOUTH IS A MAXIMUM OF 0.4 FC AT THE PROPERTY LINE. MAXIMUM SPILL TO THE WEST IS 0.3 FC. THESE VALUES COMPLY WITH THE CODE FOR SPILL.

THE LIGHTING PLAN INCLUDES FIXTURES MOUNTED ON THE WEST ELEVATION OF THE NEW BUILDING AT 8 FEET. FIXTURES ON POLES AND THE BUILDING ARE FULL-CUTOFF TYPE. LIGHTING TECHNOLOGY IS LED.

Calculation Summary

Project: SUNRISE PRESCHOOL SITE REV1 08-27-2018

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
EGRESS BETWEEN OLD AND NEW BLDG_Top	Illuminance	Fc	1.56	2.2	1.0	1.56	2.20
EGRESS PATH_Top	Illuminance	Fc	2.26	3.8	1.0	2.26	3.80
PROPERTY LINE	Illuminance	Fc	0.19	0.5	0.0	N.A.	N.A.
DRIVE	Illuminance	Fc	2.19	4.6	1.0	2.19	4.60
PARKING	Illuminance	Fc	2.40	4.6	1.2	2.00	3.83

NO.	DATE	REVISIONS	DR	CK	APP

Fort Pierce Engineering, Inc.
Dependable Mechanical, Electrical & Plumbing Design
C.A. No. 28173
315 South 7th Street
Fort Pierce, FL. 34950
Phone: 772 672-4636
Fax: 772 672-4637

CLIENT:
ARCHITECTONIC INC.
806 DELAWARE AVE.
FORT PIERCE, FLORIDA
34950

PROJECT NAME:
SUNRISE PRESCHOOL

PROJECT LOCATION:
2706 SUNRISE BLVD.
FORT PIERCE, FLORIDA

ENGINEER SEAL

TIMOTHY C. TREWYN LICENSE No 61580 STATE OF FLORIDA PROFESSIONAL ENGINEER
8/28/18

Timothy C. Trewyn, PE
P.E. No. 61580

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SHEET TITLE

ELECTRICAL SITE PLAN LIGHTING

ISSUE DATE: 08-28-2018

DRAWN: TEC

APPROVED: TCT

DRAWING NUMBER

E-1.2

SHEET 1 OF 1

18001-23