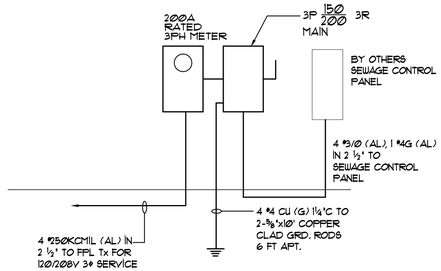


LIFT STATION ELECTRICAL RISER DIAGRAM

NTS

SEWAGE PUMP STATION POWER LOAD CALCULATIONS

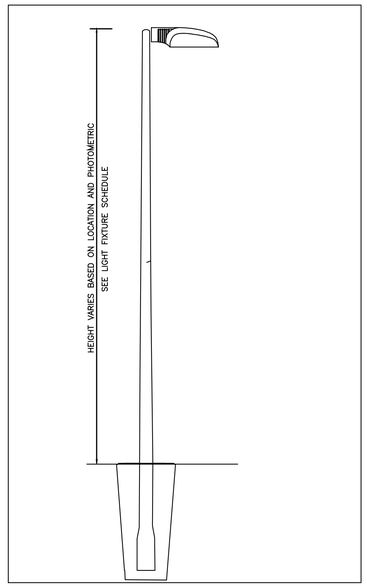
ALL CALCULATIONS ARE PER NATIONAL ELECTRIC CODE SECTION 230-91, 230-42 AND 220.
POWER = 3 PHASE / 60 HERTZ / 230 VAC / 3 WIRE + NEUTRAL/COMMON + GROUND
MOTOR = 20.0 HP (14.8 KW) WITH FULL LOAD AMPS = 48.0
PUMP MOTOR 1 = 48.0 AMPS
PUMP MOTOR 2 = 48.0 AMPS
MAX. CONTROL POWER = 1.0 AMPS
MAX. DUPLEX CONVENIENCE RECEPTACLE POWER = 5.0 AMPS
25% OF LARGEST MOTOR LOAD = 12.0 AMPS

TOTAL AMPS = 114.0 MAXIMUM
USE 114 AMP MAX. RATING FOR CONTROL PANEL
USE 200 AMP FUSIBLE DISCONNECT SWITCH AS SERVICE ENTRANCE (IF APPLICABLE)
USE 120 AMP TIME DELAY (INDUCTION MOTOR DUTY) FUSES (QUANTITY 3)

TOTAL SERVICE LOAD

LIFT STATION ——— 114 A

150A CAPACITY SERVICE PROVIDED



SITE FIXTURE POLE DETAIL N.T.S.
TYPICAL POLE FIXTURES - 20'-0" HEIGHT
10'-0" & 14FT HEIGHT ALTERNATES PER SCHEDULE

LANDSCAPE
LIGHTING FIXTURE SCHEDULE

SYMBOL	TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS QTY	TYPE	VOLTS	REMARKS
	POOL LIGHT	TO BE SELECTED	Supplied by pool or fountain contractor accpordingly	2	TO BE PROVIDED BY CONTRACTORS	120	Pool Lights by Pool Engineer
	COMPACT FLOOD	VISTA LIGHTING	1039-B-CR-36-120-HD	1	FLUORESCENT SIGN LIGHTER	120	To flood light Entry Sign center
	UP-LIGHT	VISTA LIGHTING	1065-B-SL-LN-35-PAR20-MH-FL	23	35W MH 30 Degree Flood Light	120	Standard ground spike mounting provided as part of the order # 6
	UP-LIGHT	VISTA LIGHTING	1065-B-FT-LN-70-PAR38-MH-SP	21	70W MH 15 Degree Spot Light	120	Standard ground spike mounting provided as part of the order # 3

LUMINAIRE SCHEDULE

Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
	S1	36	LITHONIA DSX1 LED 40C 700 40K T4M MVOLT HS MOUNTED 20' AFG ON ROUND TAPERED DIRECT BURIAL ALUMINUM POLE	SINGLE LED LUMINAIRE WITH HOUSE-SIDE SHIELD MOUNTED ON POLE	(2) 20 LED LIGHT ENGINES, DSX1 LED WITH (2) 20 LED LIGHT ENGINES, TYPE T4M OPTIC, 4000K, @ 700mA	DSX1_LED_40C_700_40K_T4M_MVOLT_HS.ies	Absolute	0.86	89
	S2	6	LITHONIA DSX1 LED 40C 700 40K T4M MVOLT HS MOUNTED 20' AFG ON ROUND TAPERED DIRECT BURIAL ALUMINUM POLE	TWIN (180 DEGREE) LED LUMINAIRES WITH HOUSE-SIDE SHIELDS MOUNTED ON POLE	2-(2) 20 LED LIGHT ENGINES, TYPE T4M OPTIC, 4000K, @ 700mA	DSX1_LED_40C_700_40K_T4M_MVOLT_HS.ies	Absolute	0.86	178
	S3	8	LITHONIA DSX1 LED 40C 700 40K T3M MVOLT MOUNTED 20' AFG ON ROUND TAPERED DIRECT BURIAL ALUMINUM POLE	TWIN (180 DEGREE) LED LUMINAIRES WITH HOUSE-SIDE SHIELDS MOUNTED ON POLE	2-(2) 20 LED LIGHT ENGINES, TYPE T4M OPTIC, 4000K, @ 700mA	DSX1_LED_40C_700_40K_T3M_MVOLT.ies	Absolute	0.86	178
	S4	23	LITHONIA FEM4 LED 4L IMACD SURFACE MOUNTED INSIDE COVERED PARKING	4' ENCLOSED & GASKETED LED LUMINAIRE WITH ACRYLIC CLEAR DEEP LENS	WHITE LED ARRAY, 4000K	FEM4_LED_4L_IMACD.ies	Absolute	0.86	60.8
	S5	6	LITHONIA DSX0 LED 20C 700 40K T4M MVOLT HS MOUNTED 10' AFG ON DIRECT BURIAL ROUND TAPERED ALUMINUM POLE	SMALL SINGLE LED LUMINAIRE ON POLE	(1) 20 LED LIGHT ENGINE, TYPE T4M OPTIC, 4000K, @ 700mA WITH HOUSE SIDE SHIELD	DSX0_LED_20C_700_40K_T4M_MVOLT_HS.ies	Absolute	0.86	45
	S6	5	LITHONIA DSX0 LED 20C 530 40K T4M MVOLT HS MOUNTED 14' AFG ON DIRECT BURIAL ROUND TAPERED ALUMINUM POLE	SMALL SINGLE LED LUMINAIRE ON POLE	(1) 20 LED LIGHT ENGINE, TYPE T4M OPTIC, 4000K, @ 530mA WITH HOUSE SIDE SHIELD	DSX0_LED_20C_530_40K_T4M_MVOLT_HS.ies	Absolute	0.86	70
	S7	32	LITHONIA DSX0 LED 20C 530 40K T3M MVOLT HS MOUNTED 14' AFG N DIRECT BURIAL ROUND TAPERED ALUMINUM POLE	SMALL SINGLE LED LUMINAIRE ON POLE	(1) 20 LED LIGHT ENGINE, TYPE T3M OPTIC, 4000K, @ 530mA WITH HOUSE	DSX0_LED_20C_530_40K_T3M_MVOLT_HS.ies	Absolute	0.86	35
	S8	39	LITHONAI DSXW1 LED 10C 530 40K T2M MVOLT WALL MOUNTED 9' AFF	WALL MOUNTED LUMINAIRE	1 LIGHT ENGINE, 10 LED's, 530mA DRIVER, 4000K LED, TYPE 2 MEDIUM OPTICS	DSXW1_LED_10C_530_40K_T2M_MVOLT.ies	Absolute	0.86	20
	S9	10	DSXB LED 12C 350 40K ASY	D-SERIES BOLLARD WITH 12 4000K LEDS OPERATED AT 350mA AND ASYMMETRIC DISTRIBUTION	LED	DSXB_LED_12C_350_40K_ASY.ies	Absolute	0.86	16

STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min
PARKING AREA (Z=0')	+	1.7 fc	3.6 fc	0.5 fc	7.2:1
PATHWAYS (Z=0')	+	1.5 fc	8.7 fc	0.5 fc	17.4:1
POOL DECK (Z=0')	+	4.3 fc	6.3 fc	1.7 fc	3.7:1

REVISIONS	BY
SITE ADMIN. AMMENDMENTS 10-29-15	
SITE PLAN ADMIN. AMMENDMENTS 01-08-16	

MIDTOWN RESIDENCES AT COCONUT CREEK

ADDRESS:

FOR:
FC LAND INVESTMENT A, LLC.

FRANYIE ENGINEERS INC.

Certificate of Authorization # 00002906
VIVIANA FRANYIE PE # 49985 MECH
ALEJANDRO FRANYIE PE # 73089 MECH

10610 NW 27 Street, Miami FL 33172
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JOB NUMBER 15-124
DATE

Viviana Franyie
Digitally signed by Viviana Franyie
DN: cn=Viviana Franyie, o=Franyie Engineers, Inc, ou=PE 49985, email=vviv@franyie.com, c=US
Date: 2016.01.08 15:44:36 -05'00'

VIVIANA FRANYIE LICENSE No. 49985 STATE OF FLORIDA PROFESSIONAL ENGINEER

SCALE AS SHOWN
JOB NO. 1528.PRJ
SHEET

E-1.1

OF SHEETS