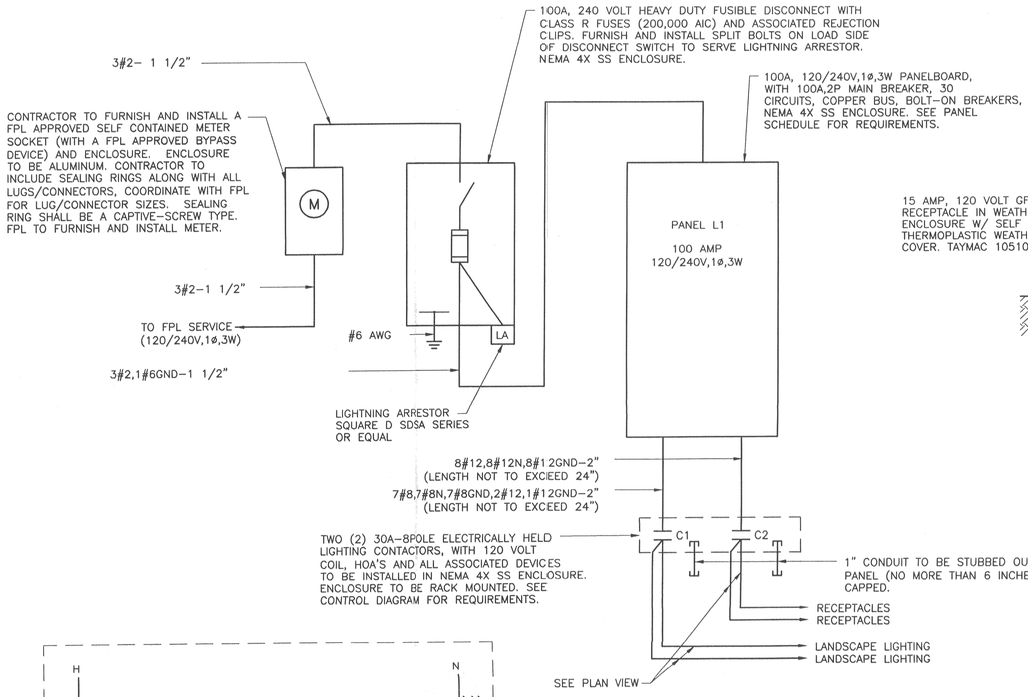
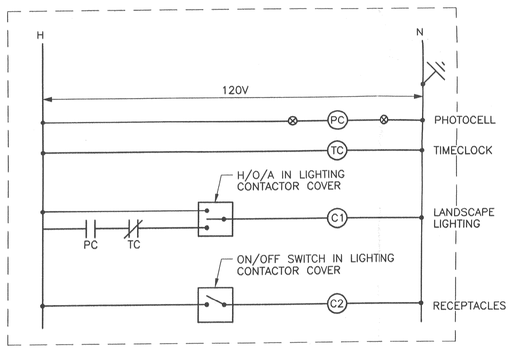


ELECTRICAL RISER DIAGRAM

N.T.S.



CONTACTOR DIAGRAM

N.T.S.

SERVICE POINT

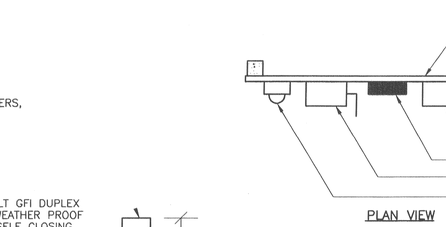
LOAD TABULATION

PANEL L1			
LIGHT FIXTURE TYPE "A"	45 @ 100W X 125%	=	5625 W
RECEPTACLES	14 @ 360W	=	5040 W
		=	10665 W

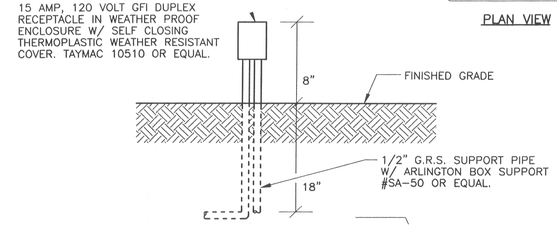
$$I = \frac{10665\ W}{(0.9)(240V)} = 49.38\ AMPS$$

PANEL: L1	BUS: 100A W/100A MB	VOLTAGE: 120/240V,1ø,3W				
MOUNTING: SURFACE		POLES: 30				
LOCATION: PUMP ROOM				REMARKS: PROVIDE SURGE SUPPRESSOR		
CIR. NO.	DESCRIPTION	TRIP	POLES	WIRE	CONDUIT	LOAD (KVA)
1	LANDSCAPE LIGHTING	20	1	SEE PLAN VIEW		0.78
3	LANDSCAPE LIGHTING	20	1	SEE PLAN VIEW		0.78
5	LANDSCAPE LIGHTING	20	1	SEE PLAN VIEW		0.44
7	LANDSCAPE LIGHTING	20	1	SEE PLAN VIEW		0.56
9	LANDSCAPE LIGHTING	20	1	SEE PLAN VIEW		0.23
11	LANDSCAPE LIGHTING	20	1	SEE PLAN VIEW		1.00
13	LANDSCAPE LIGHTING	20	1	SEE PLAN VIEW		0.89
15	LANDSCAPE LIGHTING	20	1	SEE PLAN VIEW		0.44
2	RECEPTACLES	20	1	SEE PLAN VIEW		0.36
4	RECEPTACLES	20	1	SEE PLAN VIEW		0.36
6	RECEPTACLES	20	1	SEE PLAN VIEW		0.36
8	RECEPTACLES	20	1	SEE PLAN VIEW		0.36
10	RECEPTACLES	20	1	SEE PLAN VIEW		0.36
12	RECEPTACLES	20	1	SEE PLAN VIEW		0.36
14	RECEPTACLES	20	1	SEE PLAN VIEW		0.36
17,19	SURGE SUPPRESSOR	20	2	2#10,1#10GND		---
16,18	CONTACTOR COIL	20	1	SEE RISER DIAGRAM		---
20–24	SPARE	20	1	–		–
25–30	SPACE	–	–	–		–
TOTAL LOAD						7.64
(AMPS)						(31.83)

SURGE SUPPRESSOR APT TE/XF–04 SERIES — SS

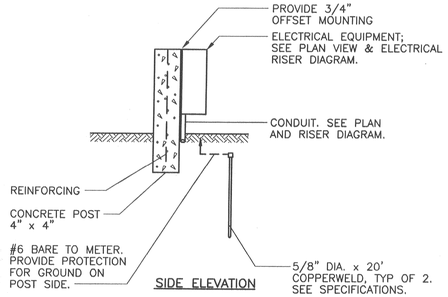


PLAN VIEW



RECEPTACLE DETAIL

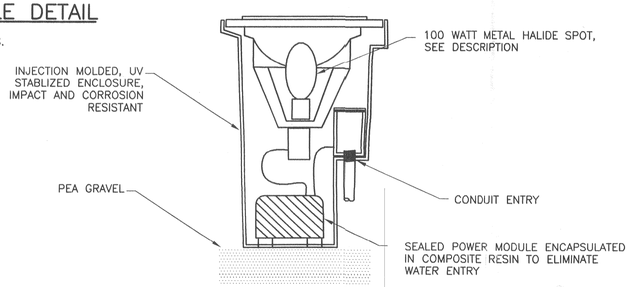
N.T.S.



SIDE ELEVATION

SERVICE RACK DETAIL

N.T.S.

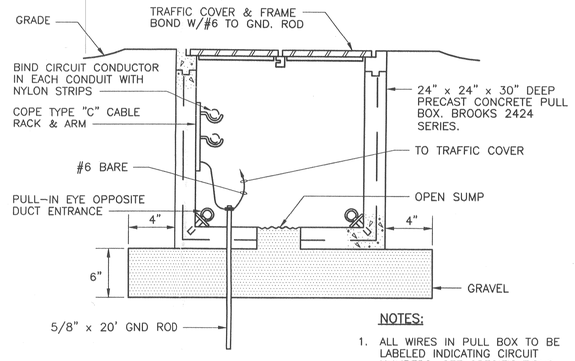


NOTES:

1. 100 WATT METAL HALIDE SPOT LIGHT FIXTURE, MATERIAL TO BE BRONZE, SUITABLE FOR MARINE ENVIRONMENT, 120 VOLT BALLAST, SPOT REFLECTOR WITH CLEAR FLAT LENS, TWO (2) 3/4" CONDUIT ENTRIES IN BOTTOM OF FIXTURE, LAMP AND POWER MODULES TO BE FACTORY SEALED, THERMALLY PROTECTED AND CONNECTED BY SUBMERSIBLE RATED CONNECTORS. ASSEMBLY TO HAVE 15° OF INTERNAL LAMP TILT ON A 360° AXIS OF ROTATION. LENS TO BE CLEAR TEMPERED FLAT GLASS. FIXTURE TO BE 9100 SERIES AS MANUFACTURED BY HYDREL.
2. FIXTURE TO BE INSTALLED ON A MINIMUM OF 6 INCHES OF PEA GRAVEL.
3. INSTALLATION SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

TYPE A LANDSCAPE LIGHT FIXTURE

N.T.S.



NOTES:

1. ALL WIRES IN PULL BOX TO BE LABELED INDICATING CIRCUIT NUMBERS. SEE SPECIFICATIONS.
2. DO NOT SPLICE CABLES IN PULL BOXES UNLESS OTHERWISE NOTED.
3. PATCH CONDUIT ENTRY WINDOW WITH CONCRETE.

PULL BOX DETAIL

N.T.S.

Electrical Design Associates INC.
2101 N. ANDREWS AVE., SUITE 100
FORT LAUDERDALE, FLORIDA 33311
PHONE: (954) 564–4012
FAX: (954) 564–3040
License No. 65–0868970
LILLIAN M. REYES, P.E.
Florida P.E. No. 50780

NO	DATE	REVISION	BY
		BID SET	

NO	DATE	REVISION	BY

DESIGNED LMR 04/28/04
DRAWN KJL/RRM 04/28/04
CHECKED LMR 03/15/04

Calvin, Giordano & Associates, Inc.
Engineers Surveyors Planners
1800 Eller Drive Suite 600
Fort Lauderdale, Florida 33316
954.921.7781 954.921.8807 fax

SUNNY ISLES
OCEANFRONT PARK
Lighting Improvements

ELECTRICAL DETAILS AND SCHEDULES

APPROVED Lillian M. Reyes, P.E. 0050780
DATE 04/28/04

SCALE AS NOTED:
PROJECT No
CAD FILE E–03 DETAILS

SHEET E–3 OF

F:\Sunrise Street Association, Inc\Projects\Calvin Giordano\Survey\Xtra Blocks\Close Files\Park\X_Xtra Set Sheets\Electrical\E-03 DETAILS.dwg, 5/18/2004 12:22:21 PM, cgm