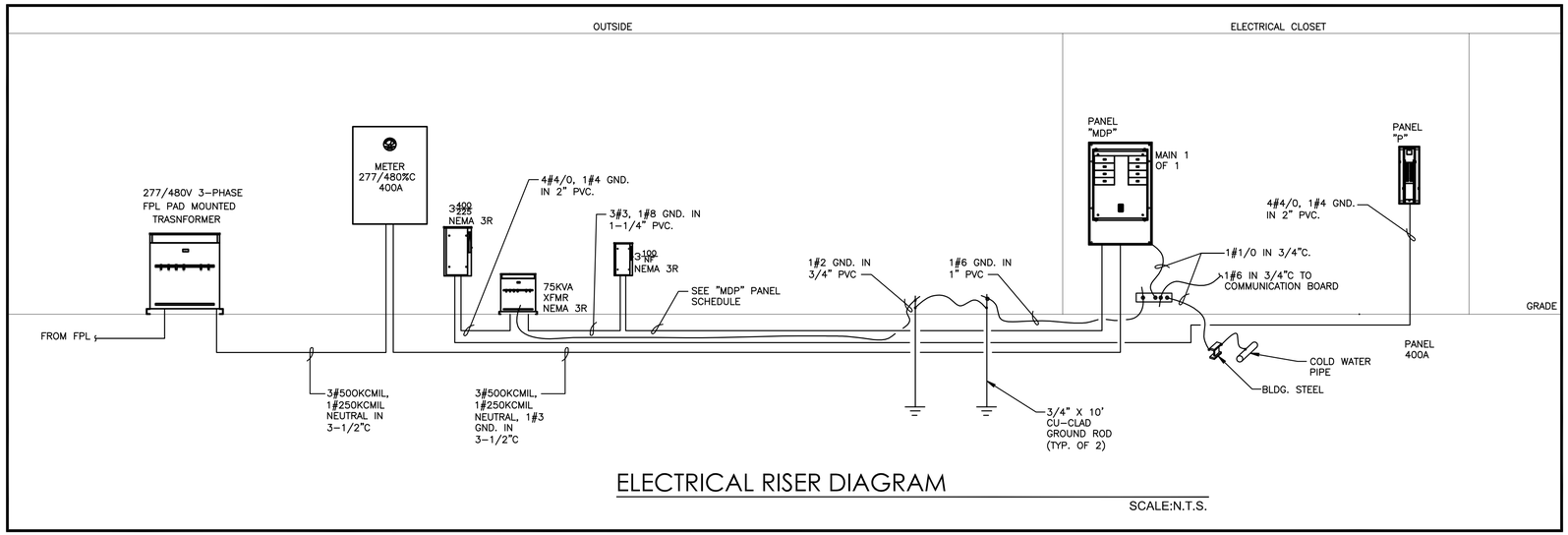


ELECTRICAL RISER DIAGRAM

SCALE:N.T.S.

LOCATION: SEE FLOOR PLAN ☐EXISTING ■NEW

PANEL "P" SCHEDULE

SPEC: SQUARE D, ITE , G.E. ■COPPER BUS ☐ALUMINUM BUS

CKT.	LOAD DESCRIPTION	TYPE	WIRE	GRD.	COND.	POLE/ TRIP	KVA A PHASE	KVA B PHASE	KVA C PHASE	POLE/ TRIP	COND.	GRD.	WIRE	TYPE	LOAD DESCRIPTION	CKT.
1	SPD		10	10	–	30	– 0.7			20	1/2	12	12		EF-1	2
3								– 0.7		20	1/2	12	12		EF-2	4
5									– 0.7	20	1/2	12	12		EF-3	6
7	SPACE		–	–	–	–	– 0.2			20	1/2	12	12		ROOF RECEPTACLE	8
9	SPACE		–	–	–	–		– 0.6		20	1/2	12	12		UTILITY RECEPTACLES	10
11	SPACE		–	–	–	–			– 0.7	20	1	8	8		EXTERIOR RECEP.	12
13	SPACE		–	–	–	–	– 0.4			20	3/4	8	8		ENTRANCE RECEPTACLES	14
15	SPACE		–	–	–	–		– 0.9		20	1/2	10	10		RECEPTION/CORR. RECEPTS.	16
17	SPACE		–	–	–	–			– 0.4	20	3/4	8	8		RECEPTION DESK RECEPTACLES	18
19	SPACE		–	–	–	–	– 0.6			20	1/2	10	10		BREAK ROOM RECEPT.	20
21	SPACE		–	–	–	–		– 1.1		20	1/2	10	10		BREAK ROOM REFRIG.	22
23	SPACE		–	–	–	–			– 0.8	20	1/2	10	10		BREAK ROOM MICROWAVE	24
25	SPACE		–	–	–	–	– 0.7			20	1/2	10	10		CORRIDOR RECEPTACLES	26
27	SPACE		–	–	–	–		– 0.4		20	1/2	12	12		TYPE A PREP 109/110 RECEP.	28
29	SPACE		–	–	–	–			– 0.4	20	1/2	10	10		TYPE A PREP 111/112 RECEP.	30
31	SPACE		–	–	–	–	– 0.4			20	1/2	12	12		TYPE A PREP 103,104 RECEP.	32
33	SPACE		–	–	–	–		– 0.4		20	1/2	12	12		TYPE A PREP 101/102 RECEP.	34
35	SPACE		–	–	–	–			– 0.8	20	1/2	12	12		CORRIDOR LIGHHTS	36
37	SPACE		–	–	–	–	– 1.0			20	1/2	12	12		UTILITIES LIGHTS	38
39	SPACE		–	–	–	–		– 0.9		20	1/2	12	12		PREP ROOMS LIGHTS	40
41	SPACE		–	–	–	–			– 0.9	20	1/2	12	12		PREP ROOMS LIGHTS	42
43	SPACE		–	–	–	–	– 1.0			20	1/2	12	12		CORRIDOR LIGHHTS	44
45	SPACE		–	–	–	–		– 0.5		20	1/2	12	12		RECEPTION/BREAK. RM. LIGHTS	46
47	SPACE		–	–	–	–			– 0.4	20	1/2	12	12		IT RECEPTACLES	48
49	SPACE		–	–	–	–	– 0.4			20	1/2	12	12		IT RECEPTACLES	50
51	SPACE		–	–	–	–		– –		–	–	–	–		SPACE	52
53	SPACE		–	–	–	–			– 1.5	20	1/2	12	12		LIGHTING RELAY PANEL	54
				SUBTOTAL			5.0	5.5	6.2							

ALL FEEDER CALCULATIONS ARE BASED ON:THHN/THWN CU. NOT MORE THAN 4 CONDUCTORS IN A RACEWAY

TOTAL KVA IS 16.7 KVA
TOTAL AMPERES IS 46 AMPS
ESTIMATED DEMAND LOAD= – AMPS

CIRCUIT TYPE : (M) ARC FAULT (T) TIME SWITCH CONTROL (S) SHUNT TRIP (F) GROUND FAULT (X) DEDICATED (G) ISOLATED GRD.

RATED VOLTAGE=	120/208 VOLTS	3 PHASE	4 WIRE	■EQPT. GRD.	☐ISOL. GRD.	MAINS: ☐M.L.O. ■BREAKER :	3 225
FEEDER SIZE IS:	■CABLE = SEE RISER			☐BUSWAY		BRANCH POLES: 54	BRANCH BREAKERS= 10 KAIC
MOUNTING:	■SURFACE	☐FLUSH	☐FREE STANDING	☐KEYED DOOR		BUS RATING: 250A	BRACING = 10 KAIC
NEUTRAL BUS IS:	☐HALF SIZE	■FULL SIZE	☐K RATED (1.5)	☐K RATED (2.0)		GROUND BAR: ■EQUIPMENT ☐ISOLATED	☐BOTH
ENCLOSURE :	■NEMA 1	☐NEMA 3R	☐NEMA 4X	CLASS( )	DIV ( )	FEED LOCATION: ☐TOP	■BOTTOM ☐FEED THRU
PANEL TYPE :	☐FUSED	☐CB PLUG IN	■CB BOLT IN			FED FROM: ■NORMAL	☐EMERGENCY ☐UNINTERRUPTABLE

NOTE:

LOCATION: SEE FLOOR PLAN ☐EXISTING ■NEW

PANEL "MDP" SCHEDULE

SPEC: SQUARE D, ITE , G.E. ■COPPER BUS ☐ALUMINUM BUS

CKT.	LOAD DESCRIPTION	TYPE	WIRE	GRD.	COND.	POLE/ TRIP	KVA A PHASE	KVA B PHASE	KVA C PHASE	POLE/ TRIP	COND.	GRD.	WIRE	TYPE	LOAD DESCRIPTION	CKT.
1	SPD		10	10	–	30	– 7.2			35	3/4	10	8		RTU-1	2
3								– 7.2								4
5									– 7.2							6
7	BATH WATER HEATER		4	8	1-1/4	70	15 0.9			20	1/2	12	12		RTU-1-CU	8
9								15 0.9								10
11									15 0.9							12
13	BATH WATER HEATER		4	8	1-1/4	70	15 13.9			60	1	10	6		RTU-2	14
15								15 13.9								16
17									15 13.9							18
19	POOL WATER HEATER		8	10	3/4	45	10 5.0			100	1-1/4	8	3		PANEL "P" VIA XFMR	20
21								10 5.5								22
23									10 6.2							24
25	SPACE		–	–	–	–	– –			–	–	–	–		SPACE	26
27	SPACE		–	–	–	–		– –		–	–	–	–		SPACE	28
29	SPACE		–	–	–	–			– –	–	–	–	–		SPACE	30
31	SPACE		–	–	–	–	– –			–	–	–	–		SPACE	32
33	SPACE		–	–	–	–		– –		–	–	–	–		SPACE	34
35	SPACE		–	–	–	–			– –	–	–	–	–		SPACE	36
37	SPACE		–	–	–	–	– –			–	–	–	–		SPACE	38
39	SPACE		–	–	–	–		– –		–	–	–	–		SPACE	40
41	SPACE		–	–	–	–			– –	–	–	–	–		SPACE	42
				SUBTOTAL			67.0	67.5	68.2							

ALL FEEDER CALCULATIONS ARE BASED ON:THHN/THWN CU. NOT MORE THAN 4 CONDUCTORS IN A RACEWAY

TOTAL KVA IS 202.7KVA
TOTAL AMPERES IS 244 AMPS
ESTIMATED DEMAND LOAD= – AMPS

CIRCUIT TYPE : (M) ARC FAULT (T) TIME SWITCH CONTROL (S) SHUNT TRIP (F) GROUND FAULT (X) DEDICATED (G) ISOLATED GRD.

							POLE	TRIP	TYPE
RATED VOLTAGE=	277/480 VOLTS	3 PHASE	4 WIRE	■EQPT. GRD.	☐ISOL. GRD.	MAINS: ☐M.L.O.	■BREAKER :	3	400 C.B.
FEEDER SIZE IS:	■CABLE = SEE RISER			☐BUSWAY		BRANCH POLES: 42	BRANCH BREAKERS=		35 KAIC
MOUNTING:	■SURFACE	☐FLUSH	☐FREE STANDING	☐KEYED DOOR		BUS RATING: 400A	BRACING =		35 KAIC
NEUTRAL BUS IS:	☐HALF SIZE	■FULL SIZE	☐K RATED (1.5)	☐K RATED (2.0)		GROUND BAR: ■EQUIPMENT	☐ISOLATED		☐BOTH
ENCLOSURE :	■NEMA 1	☐NEMA 3R	☐NEMA 4X	CLASS( )	DIV ( )	FEED LOCATION: ☐TOP	■BOTTOM		☐FEED THRU
PANEL TYPE :	☐FUSED	☐CB PLUG IN	■CB BOLT IN			FED FROM: ■NORMAL	☐EMERGENCY		☐UNINTERRUPTABLE

NOTE:

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Digitally signed by George Sanjuan
Date: 2024.06.05 11:05:43 -04'00'

FPT: MSPI-1008-LONGANESVC
PROJECT #: 23001.5.0
(Okeechobee Mikvah)

CIVIL CONSULTANT:

REVISIONS:

NO.	DATE	DESCRIPTION
1	3-29-2024	RESPONSE TO COMMENTS
2	6-13-2024	COORDINATION

CLIENT: CLIENT NAME

PROJECT NAME / LOCATION: MIKVAH OKEECHOBEE, FL

DRAWING TITLE: MIKVAH ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULES

EXAMINER'S SIGNATURE:

PROFESSIONAL SEAL:

GEORGE SANJUAN P.E.
FLORIDA LICENSE #66100

SCALE: 1/4" = 1'-0"

DATE:

PROJECT NO:

DRAWING NO: E103

06

BARCODE

THE GENERAL CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ALL ERRORS AND OMISSIONS TO THE ARCHITECTS. DO NOT SCALE DRAWINGS. THE DRAWINGS SHALL NOT BE USED UNTIL SIGNED BY CONSULTANTS.

7/25/2023 2:53:09 PM