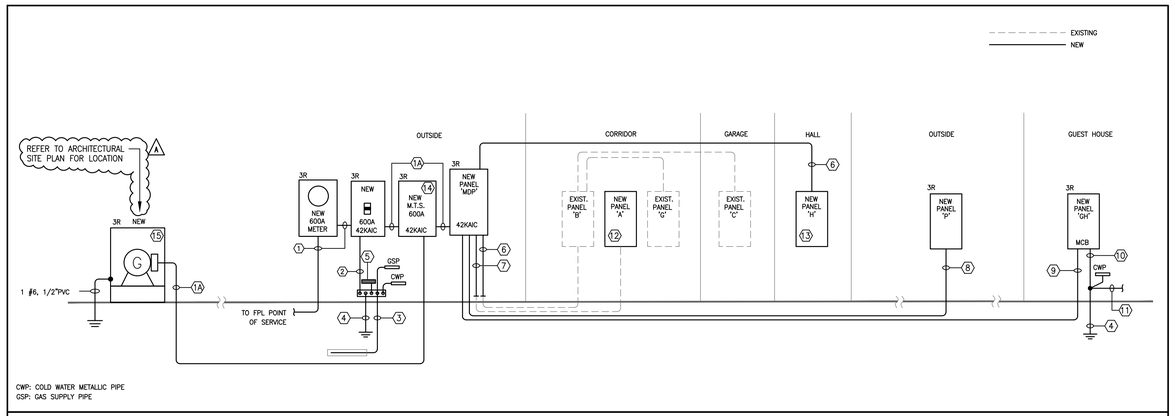
08/05/2024



ELECTRICAL RISER

ELECTRICAL RISER CODED NOTES

1. 2 RUNS OF: 3–#350MCM IN 2–1/2"PVC (EA.)
1A. 2 RUNS OF: 3–#350MCM, 1–#1(G) IN 3"PVC (EA.)
2. 1–#3/0 IN 3/4"PVC
3. 1–#3/0 TO FOUNDATION STEEL RE–BAR
4. GROUNDING ROD: 5/8"X10' LONG
5. PROVIDE AN INTERSYSTEM BONDING 'ERICO' PART # IBTB OR EQUAL
6. 3–#4/0, 1–#4(G) IN 2"PVC
7. 3–#3/0, 1–#6(G) IN 2"PVC
8. 3–#4, 1–#8(G) IN 1"PVC
9. 3–#3, 1–#8(G) IN 1–1/4"PVC
10. 1–#8 IN 1/2"PVC
11. 1–#8 TO FOUNDATION STEEL RE–BAR
12. REPLACE EXISTING PANEL 'A' WITH NEW PANEL IN SAME LOCATION.
13. REPLACE EXISTING PANEL 'H' WITH NEW PANEL IN SAME LOCATION.
14. 600A/2P MANUAL TRANSFER SWITCH (SEE NOTES)
15. 130KW GENERATOR (SEE NOTES)

NOTES

13. 130KW/542A GAS GENERATOR, 120/240V, 1ø, 'GENERAC' MODEL SG100, IN A SOUND ATTENUATED WEATHER ENCLOSURE, WITH A 600A/2P LINE CIRCUIT BREAKER AND REMOTE EMERGENCY STOP KIT.
12. 600A 2 POLES, DOUBLE–THRU, NON–FUSES SWITCH, SOLID NEUTRAL IN A NEMA 3R ENCLOSURE

GENERATOR NOTES

1.– FROM GENERATOR, RUN:
A) 3/4" PVC TO ATS LOCATION, FOR CONTROL WIRING.
B) ONE 1/2"C TO LOCATION OF EMERGENCY GLASS BREAK STATION. BREAK STATION LOCATION TO BE COORDINATED WITH THE OWNER.
C) 3–#12 IN 1/2"PVC FROM CHARGER INSIDE TO PANEL 'A'.

2.– CONTRACTOR TO PROVIDE DETAILED SHOP DRAWINGS FOR ANCHORING DETAILS AND CONCRETE SLAB BASE TO SUPPORT GENERATOR.

3.– CONTRACTOR TO PROVIDE VIBRATION ISOLATION PADS/MAT FOR GENERATOR BASE.

4.– LP GAS PROVISIONS FOR GENERATOR UNDER SEPARATE PERMIT. 1A

TYPE: SIEMENS, SD , GE
SERVICE: 1Ø , 3w
VOLTAGE: 120/240
MOUNTING: FLUSH
LOCATION: SHOWN ON PLANS

PANEL H
(HALL)

BUS RATING: 225A
MAINS: MLO
POLES: 54
FEEDER: SEE RISER
NEUTRAL: SEE RISER

	CKT	SERVES	TRIP POLE	WIRE	CON DUIT	VA	PH A	PH C	CKT	SERVES	TRIP POLE	WIRE	CON DUIT	VA	
(5)	1	EXIST. AHU-4	60/2	6	3/4	10,680	●		2	EXIST. HEAT PUMP (POOL)	60/2	6	3/4	8,160	(5)
	3	↓						●	4	↓					
(5)	5	WATER HEATER-2	60/2	6	3/4	12,000	●		6	EXIST. CU-4	40/2	8	3/4	4,608	(1) (5)
	7	↓						●	8	↓					
(2) (5)	9	EXIST. GEN. LTG.	20/1	12	1/2	*	●		10	EXIST. GEN. LTG.	20/1	12	1/2	*	(2) (5)
(2) (5)	11	EXIST. GEN. LTG.	20/1	12	1/2	*		●	12	EXIST. GEN. LTG.	20/1	12	1/2	*	(2) (5)
(2) (5)	13	EXIST. GEN. LTG.	20/1	12	1/2	*	●		14	EXIST. GEN. LTG.	20/1	12	1/2	*	(2) (5)
(2) (5)	15	EXIST. GEN. LTG.	20/1	12	1/2	*		●	16	EXIST. GEN. LTG.	20/1	12	1/2	*	(2) (5)
(2) (5)	17	EXIST. GEN. LTG.	20/1	12	1/2	*	●		18	EXIST. GEN. LTG.	20/1	12	1/2	*	(2) (5)
(2) (5)	19	EXIST. GEN. LTG.	20/1	12	1/2	*		●	20	EXIST. GEN. LTG.	20/1	12	1/2	*	(2) (5)
(2) (5)	21	EXIST. GEN. LTG.	20/1	12	1/2	*	●		22	EXIST. GEN. LTG.	20/1	12	1/2	*	(2) (5)
(2) (5)	23	EXIST. GEN. LTG.	20/1	12	1/2	*		●	24	EXIST. GEN. LTG.	20/1	12	1/2	*	(2) (5)
(2) (5)	25	EXIST. GEN. LTG.	20/1	12	1/2	*	●		26	EXIST. GEN. LTG.	20/1	12	1/2	*	(2) (5)
(2) (5)	27	EXIST. GEN. LTG.	20/1	12	1/2	*		●	28	EXIST. GEN. LTG.	20/1	12	1/2	*	(2) (5)
(2) (5)	29	EXIST. GEN. LTG.	20/1	12	1/2	*	●		30	EXIST. GEN. LTG.	20/1	12	1/2	*	(2) (5)
(2) (5)	31	EXIST. GEN. LTG.	20/1	12	1/2	*		●	32	EXIST. GEN. LTG.	20/1	12	1/2	*	(2) (5)
(1)	33	CU-5	20/2	12	1/2	2,496	●		34	MASTER BEDROOM LIGHTS	20/1	12	1/2	*	(2)
	35	↓						●	36	MASTER BEDROOM RECEPTACLES	20/1	12	1/2	*	(2)
	37	AHU-5	30/2	10	1/2	5,000	●		38	SITTING ROOM LIGHTS/WKSPTS	20/1	12	1/2	*	(2)
	39	↓						●	40	↓					
	41						●		42	SPARE	20/2				
	43							●	44	↓					
	45						●		46	EFFLUENT PUMP	20/1	12	1/2	1,176	
	47							●	48						
	49						●		50						
	51							●	52						
	53						●		54						

LOAD CALCULATION

GENERAL LIGHTING:3,800 SF @ 3 VA/SF	=	11,400 VA	
SMALL APPLIANCES	=	0 VA	
LAUNDRY CIRCUIT	=	0 VA	
FIRST 3KVA @ 100%	=	**3,000 VA**	
REMAINDER 8,400 VA @35%	=	**2,940 VA**	
COOKING EQUIPMENT		0 VA	
APPL. FASTENED IN PLACE		0 VA	
OTHER LOAD			
WATER HEATER	=	12,000 VA	
HEAT PUMP	=	8,160 VA	
EFFLUENT PUMP	=	1,176 VA	
CONNECTED LOADS	=	21,336 VA	
A/C LOAD (LARGEST)	=	15,600 VA	
TOTAL LOAD	=	**42,876 VA**	

A/C LOAD:
FCU'S @ 100% (VA) = 15,600

TOTAL DEMAND CURRENT:
42,876 VA/240V **179 AMPS.**

(*) PART OF THE 3 VA/SQF
(1) NON-CONCIDENT LOAD
(2) AFCI COMBINATION TYPE BREAKER
(3) NOT USED
(4) GFCI BREAKER
(5) EXISTING RELOCATED FROM PANEL BEING DEMOLISHED

TYPE: SIEMENS, SD , GE
SERVICE: 1Ø , 3w
VOLTAGE: 120/240
MOUNTING: FLUSH
LOCATION: SHOWN ON PLANS

PANEL GH
(GUEST HOUSE)

BUS RATING: 100A
MAINS: MLO
POLES: 20
FEEDER: SEE RISER
NEUTRAL: SEE RISER

CKT	SERVES	TRIP POLE	WIRE	CON DUIT	VA	PH A	PH C	CKT	SERVES	TRIP POLE	WIRE	CON DUIT	VA	
1	AHU-1A/CU-1A	20/2	12	1/2	1,800	●		2	BEDROOM RECEPTACLES	20/1	12	1/2	*	(2)
3	↓						●	4	BEDROOM LIGHTS	20/1	12	1/2	*	(2)
5	WATER HEATER-3	30/2	10	1/2	4,500	●		6	BATHROOM RECEPTACLE	20/1	12	1/2	*	
7	↓						●	8	BBQ AREA RECEPTACLES	20/1	12	1/2	*	
9	COVERED TERRACE LIGHTS	20/1	12	1/2	*	●		10	BBQ AREA RECEPTACLES	20/1	12	1/2	*	
11	COVERED TERRACE RECEPTACLES	20/1	12	1/2	*		●	12	BBQ AREA DISHWASHER	20/1	12	1/2	1,200	(4)
13						●		14	BBQ AREA ICE MAKER	20/1	12	1/2	400	(4)
15							●	16	BBQ AREA G. DISPOSAL	20/1	12	1/2	800	(4)
17						●		18	BBQ AREA GAS RANGE	20/1	12	1/2	200	
19							●	20	BBQ AREA HOOD	20/1	12	1/2	300	

LOAD CALCULATION

GENERAL LIGHTING:850 SF @ 3 VA/SF	=	2,565 VA	
SMALL APPLIANCES	=	0 VA	
LAUNDRY CIRCUIT	=	0 VA	
FIRST 3KVA @ 100%	=	VA	
REMAINDER	=	**2,565** VA	
COOKING EQUIPMENT		0 VA	
GAS RANGE @ 80%	=	**160** VA	
APPL. FASTENED IN PLACE			
DISHWASHER	=	1,200 VA	
ICE MAKER	=	400 VA	
GARBAGE DISPOSAL	=	800 VA	
HOOD	=	300 VA	
APP. @ 75%	=	**2,025** VA	
OTHER LOAD			
WATER HEATER	=	4,500 VA	
CONNECTED LOADS	=	9,250 VA	
A/C LOAD (LARGEST)	=	1,800 VA	
TOTAL LOAD	=	**11,050 VA**	

A/C LOAD:
FCU'S @ 100% (VA) = 1,800

TOTAL DEMAND CURRENT:
11,050 VA/240V **46 AMPS.**

(*) PART OF THE 3 VA/SQF
(1) NOT USED
(2) AFCI COMBINATION TYPE BREAKER
(3) NOT USED
(4) GFCI BREAKER

TYPE: SIEMENS, SD , GE
SERVICE: 1Ø , 3w
VOLTAGE: 120/240
MOUNTING: FLUSH
LOCATION: SHOWN ON PLANS

PANEL A
(KITCHEN)

BUS RATING: 225A
MAINS: MLO
POLES: 42
FEEDER: SEE RISER
NEUTRAL: SEE RISER

	CKT	SERVES	TRIP POLE	WIRE	CON DUIT	VA	PH A	PH C	CKT	SERVES	TRIP POLE	WIRE	CON DUIT	VA	
	1	WATER HEATER-1	50/2	8	3/4	9,000	●		2	EXIST. SPRINKLER PUMP	20/2	12	1/2	1,100	(5)
	3	↓						●	4	↓					
(5) (3)	5	EXIST. SMALL APPLIANCES	20/1	12	1/2	1,500	●		6	SMALL APPLIANCES	20/1	12	1/2	1,500	(3)
(5)	7	EXIST. EXTERIOR LIGHTS	20/1	12	1/2	*		●	8	SMALL APPLIANCES	20/1	12	1/2	1,500	(3)
(3)	9	DISHWASHER	20/1	12	1/2	1,200	●		10	GARBAGE DISPOSAL	20/1	12	1/2	800	(3)
(3)	11	DISHWASHER	20/1	12	1/2	1,200		●	12	LAUNDRY RECEPTACLES	20/1	12	1/2	*	(2)
	13	BATHROOM RECEPTACLES	20/1	12	1/2	*	●		14	MASTER BEDROOM LIGHTS	20/1	12	1/2	*	(2)
(2)	15	GREAT ROOM LIGHTS	20/1	12	1/2	*		●	16	MASTER BEDROOM RECEPTACLES	20/1	12	1/2	*	(2)
(2)	17	KITCHEN LIGHTS	20/1	12	1/2	*	●		18	GREAT ROOM RECEPTACLES	20/1	12	1/2	*	(2)
	19	EXTERIOR RECEPTACLES	20/1	12	1/2	*		●	20	MUD ROOM RECEPTACLES	20/1	12	1/2	*	(2)
(2)	21	LOUNGE RECEPTACLES	20/1	12	1/2	*	●		22	MUD ROOM LIGHTS	20/1	12	1/2	*	(2)
(2)	23	LOUNGE LIGHTS	20/1	12	1/2	*		●	24	GATE	20/1	12	1/2	1,000	
	25	GATE	20/1	12	1/2	1,000	●		26	GATE	20/1	12	1/2	1,000	
	27	GATE	20/1	12	1/2	1,000		●	28	LIGHTS AT GATES	20/1	12	1/2	540	
	29	GENERATOR BATTERY CHARGER	20/1	12	1/2	300	●		30	FACP	20/1	12	1/2	200	
	31							●	32						
	33						●		34						
	35							●	36						
	37						●		38						
	39							●	40						
	41						●		42						

LOAD CALCULATION

GENERAL LIGHTING:2,600 SF @ 3 VA/SF	=	8,097 VA	
3 SMALL APPLIANCES	=	4,500 VA	
LAUNDRY CIRCUIT	=	VA	
FIRST 3KVA @ 100%	=	**3,000** VA	
REMAINDER 9,597 VA @35%	=	**3,359** VA	
COOKING EQUIPMENT		0	
APPL. FASTENED IN PLACE			
2 DISHWASHER	=	2,400 VA	
1 G. DISPOSAL	=	800 VA	
APP. @ 100%	=	**3,200** VA	
OTHER LOAD			
4 MOTORIZED GATE	=	4,000 VA	
LIGHTS AT GATE	=	540 VA	
WATER HEATER	=	9,000 VA	
SPRINKLER PUMP	=	1,100 VA	
FACP	=	200 VA	
GENERATOR BATTERY CHARGER	=	300 VA	
CONNECTED LOADS	=	24,699 VA	
A/C LOAD (LARGEST)	=	0 VA	
TOTAL LOAD	=	**24,699 VA**	

A/C LOAD:
FCU'S @ 100% (VA) = 0

TOTAL DEMAND CURRENT:
24,699 VA/240V **103 AMPS.**

(*) PART OF THE 3 VA/SQF
(1) NOT USED
(2) AFCI COMBINATION TYPE BREAKER
(3) DUAL FUNCTION AFCI/GFCI CIRCUIT BREAKER
(4) GFCI BREAKER
(5) EXISTING RELOCATED FROM PANEL DEMOLISHED

TYPE: EXISTING
SERVICE: 1Ø , 3w
VOLTAGE: 120/240
MOUNTING: FLUSH
LOCATION: SHOWN ON PLANS

PANEL B

BUS RATING: 200A
MAINS: MLO
POLES: 20
FEEDER: SEE RISER
NEUTRAL: SEE RISER

	CKT	SERVES	TRIP POLE	WIRE	CON DUIT	VA	PH A	PH C	CKT	SERVES	TRIP POLE	WIRE	CON DUIT	VA	
	1	EXIST. PANEL 'C'	70/2	-	-	13,600	●		2	AHU-2	30/2	10	1/2	5,000	
	3	↓						●	4	↓					
	5	EXIST. PANEL 'G'	60/2	-	-	13,200	●		6	CU-2	20/2	12	1/2	2,496	(1)
	7	↓						●	8	↓					
	9	SPARE	60/2	-	-			●	10	AHU-1	30/2	10	1/2	5,376	
	11	↓						●	12	↓					
	13	SPARE	30/2	-	-		●		14	EXIST. DRYER	30/2	-	-	5,000	
	15	↓						●	16	↓					
	17	EXIST. WASHER	20/1	-	-	1,500	●		18	CU-1	20/2	12	1/2	2,496	(1)
	19	SPACE						●	20	↓					

LOAD CALCULATION

GENERAL LIGHTING:0 SF @ 3 VA/SF	=	0 VA	
SMALL APPLIANCES	=	0 VA	
LAUNDRY CIRCUIT	=	0 VA	
FIRST 3KVA @ 100%	=	0 VA	
REMAINDER	=	0 VA	
COOKING EQUIPMENT		0 VA	
APPL. FASTENED IN PLACE		0 VA	
OTHER LOAD			
WASHER	=	1,500 VA	
DRYER	=	5,000 VA	
PANEL 'C'	=	8,640 VA	
PANEL 'G'	=	13,200 VA	
CONNECTED LOADS	=	28,340 VA	
A/C LOAD (LARGEST)	=	10,376 VA	
TOTAL LOAD	=	**38,716 VA**	

A/C LOAD:
FCU'S @ 100% (VA) = 10,376

TOTAL DEMAND CURRENT:
38,716 VA/240V **161 AMPS.**

(*) PART OF THE 3 VA/SQF
(1) NON-CONCIDENT LOAD
(2) AFCI COMBINATION TYPE BREAKER
(3) NOT USED
(4) GFCI BREAKER

TYPE: EXISTING
SERVICE: 1Ø , 3w
VOLTAGE: 120/240
MOUNTING SURFACE
LOCATION: SHOWN ON PLAN

PANEL C
(GARAGE)

BUS RATING 125A
MAINS: MLO
POLES: 12/24
FEEDER: SEE RISER
NEUTRAL: SEE RISER

CKT	SERVES	TRIP POLE	WIRE	CON DUIT	VA	PH A	PH C	CKT	SERVES	TRIP POLE	WIRE	CON DUIT	VA
1	EXIST. GARAGE DOOR OPENER	20/1	-	-	1,000	●		2	EXIST. LOAD	20/1	-	-	800
3	EXIST. GARAGE DOOR OPENER	20/1	-	-	1,000		●	4	EXIST. LOAD	20/1	-	-	300
5	EXIST. RECEPTACLES	20/1	-	-	360	●		6	EXIST. LOAD	20/1	-	-	360
7	EXIST. FAN	20/1	-	-	120		●	8	EXIST. LOAD	20/1	-	-	720
9	EXIST. AHU-2A	50/2	-	-	9,000	●		10	EXIST. CU-2A	25/2	-	-	4,800
11	↓						●	12	↓				

LOAD CALCULATION
CONNECTED LOAD = 13,660 VA

ALL BRANCH BREAKERS 10KAIC MIN. **TOTAL LOAD = 13,660 VA 57 Amps**

TYPE: EXISTING
SERVICE: 1Ø , 3w
VOLTAGE: 120/240
MOUNTING: FLUSH
LOCATION: SHOWN ON PLAN

PANEL G

BUS RATING
MAINS: MLO
POLES: 20/40
FEEDER: EXISTING
NEUTRAL: EXISTING

CKT		SERVES	TRIP POLE	WIRE	CON DUIT	VA	PH A	PH C	CKT		SERVES	TRIP POLE	WIRE	CON DUIT	VA	
1	A/B	RELOC. AHU-3	50/2	-	-	7,800	●		2	A/B	EXIST. WELL PUMP	20/2	-	-	2,000	
3	A/B	↓						●	4	A/B	↓					
(1) 5	A/B	EXIST. CU-3	30/2	-	-	3,456	●		6	A/B	SPARE	15/1				
7	A/B	↓						●	8	A/B	SPARE	15/1				
9	A	SPARE	20/1				●		10	A	SPARE	15/1				
	B	SPARE	20/1							B						
11	A	SPARE	20/1					●	12	A	SPARE	20/1				
	B	SPARE	20/1							B	SPARE	20/1				
13	A	EXIST. LOAD	20/1	-	-	200	●		14	A	EXIST.LOAD	20/1	-	-	400	
	B	SPARE	20/1							B						
(3) 15	A	MICROWAVE	20/1	12	1/2	800	●		16	A	HOOD	20/1	12	1/2	300	(2)
	B									B						
(3) 17	A	REFRIGERATOR	20/1	12	1/2	700	●		18	A	GAS RANGE	20/1	12	1/2	200	(2)
	B									B						
(3) 19	A	FREEZER	20/1	12	1/2	800		●	20	A	SPACE					
	B									B						

(1) NON-COINCIDENT LOAD
(2) AFCI COMBINATION TYPE BREAKER
(3) DUAL FUNCTION AFCI/GFCI CIRCUIT BREAKER

LOAD CALCULATION
CONNECTED LOADS = 13,200 VA

ALL BREAKERS TO HAVE 10,000 AIC **TOTAL LOAD = 13,200 VA 55 Amps**

SERVICE LOAD CALCULATION

a) GENERAL LIGHTING LOAD
7,100 SQF X 3VA/SQF 21,300 VA

b) SMALL APPLIANCES & LAUNDRY LOAD
3 SMALL APPL. CKTS. 4,500 VA
1 LAUNDRY CKT. 1,500 VA
27,300 VA
3,000 VA AT 100% = 3,000 VA
24,300 VA AT 35% = 8,505 VA
11,505 VA

c) COOKING EQUIPMENT LOAD
2 GAS RANGE 400 VA AT 75% = 300 VA

d) APPLIANCES FASTENED IN PLACE LOAD
1 REFRIGERATOR 700 VA
1 FREEZER 800 VA
3 DISHWASHER 3,600 VA
2 GARBAGE DISPOSAL 1,600 VA
1 MICROWAVE 800 VA
1 U.C. ICE MAKER 600 VA
2 HOOD 800 VA
8,900 VA AT 75% = 6,675 VA

e) OTHER LOAD
1 DRYER 5,000 VA
4 MOTORIZED GATE 4,000 VA
3 WATER HEATER 25,500 VA
1 WELL PUMP 2,000 VA
1 EFFLUENT PUMP 1,176 VA
HOT TUB PUMP 300 VA
FACP 200 VA
SPRINKLER PUMP 1,100 VA
WELL PUMP 2,000 VA
GENERATOR BATTERY CHARGER 300
EXISTING LOAD 600 VA
PANEL 'C' 13,660 VA
PANEL 'P' 11,500 VA
A/C EQUIPMENT 15,576 VA
109,312 VA 109,312 VA
TOTAL VA = 127,792 VA

TOTAL LOAD = 127792 VA/240V = 532 AMP.

TYPE: SIEMENS, SD, GE OR EQUAL
SERVICE: 1Ø, 3w
VOLTAGE: 120/240
MOUNTING: SURFACE
LOCATION: SHOWN ON PLANS

DISTRIBUTION PANEL MDP

BUS RATING: 600A , 42KA
MAINS: MLO
POLES:
FEEDER: SEE RISER
NEUTRAL: SEE RISER

CKT	SERVES	KVA	AMP.	PROTECTION POLES	PROTECTION CB (KA)	WIRE& CONDUIT
1	PANEL 'B'	38.72	161	2	225	SEE RISER
2	PANEL 'A'	24.79	103	2	200	SEE RISER
3	PANEL 'GH'	11.05	46	2	100	SEE RISER
4	PANEL 'H'	42.88	179	2	225	SEE RISER
5	PANEL 'P'	11.50	48	2	80	SEE RISER
6						
7						
8						
	TOTAL LOAD	*	*			

*: REFER TO LOAD CALCULATION

TYPE: SIEMENS, SD , GE
SERVICE: 1Ø , 3w
VOLTAGE: 120/240
MOUNTING: FLUSH
LOCATION: SHOWN ON PLAN

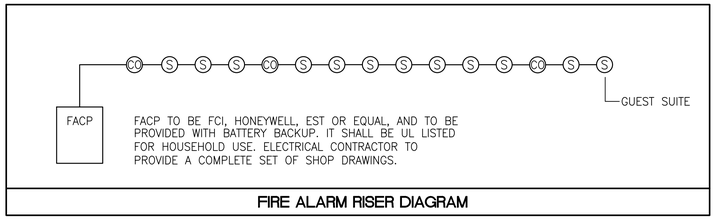
PANEL P
(POOL EQUIPMENT)

BUS RATING 125A
MAINS: MLO
POLES: 30
FEEDER: SEE RISER
NEUTRAL: SEE RISER

CKT	SERVES	TRIP POLE	WIRE	CON DUIT	VA	PH A	PH C	CKT	SERVES	TRIP POLE	WIRE	CON DUIT	VA
1						●		2					
3							●	4					
5						●		6					
7							●	8					
9						●		10					
11							●	12					
13						●		14					
15							●	16					
17						●		18					
19							●	20					
21						●		22					
23							●	24					
25						●		26					
27							●	28					
29						●		30					

LOAD CALCULATION
CONNECTED LOAD = 11,500 VA

ALL BRANCH BREAKERS 10KAIC MIN. **TOTAL LOAD = 11,500 VA 48 Amps**



FIRE ALARM RISER DIAGRAM

REVISION	BY
A BDC 05/15/24	

RENOVATION AND ADDITION
FOR:
CHRISTOPHER AND LISA MONTERO
LOCATED AT:
6445 SW 107 STREET
VILLAGE OF PINECREST, FLORIDA

JLD ARCHITECT CORPORATION
AA-26003440
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Julio C. Vidal
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J. C. Vidal LICENSE No. 52792 STATE OF FLORIDA PROFESSIONAL ENGINEER

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DATE 11/14/22
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JOB NO.
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