GENERAL ELECTRICAL NOTES

- ALL ELECTRICAL WORK PERFORMED UNDER THIS CONTRACT SHALL COMPLY WITH NEC 2017, FBC 2020 (7TH EDITION) AND LOCAL CODES AND ORDINANCES AND ALL STANDARDS OF CONSTRUCTION ESTABLISHED BY THE OWNER.
- SUBMIT SHOP DRAWINGS FOR ACCEPTANCE BY THE ARCHITECT AND/OR ENGINEER BEFORE PROCEEDING WITH THE PURCHASE OR INSTALLATION OF THE EQUIPMENT AND MATERIALS. NO FACSIMILES OR FACSIMILE COPIES SHALL BE ACCEPTED.
- ALL CONDUCTORS SHALL BE THW OR THWN COPPER. ALL EXPOSED CONDUITS SHALL BE RUN AS NEAT AS POSSIBLE. P.V.C. CONDUIT SHALL ONLY BE USED IN SLAB OR UNDERGROUND AT A MINIMUM DEPTH OF 24 INCHES.

FLEXIBLE CONDUIT SHALL BE USED FOR CONNECTION TO ALL VIBRATING EQUIPMENT SUCH AS MOTORS, ETC.

ALL WIRING DEVICES SHALL BE LEVITON "DECORA" SERIES OR EQUAL AS PROVIDED BY OWNER. COLOR SELECTED BY OWNER.

ALL RECEPTACLES SHALL BE INSTALLED AT 12" A.F.F. UNLESS OTHERWISE NOTED.

ELECTRICAL POWER AND CONTROL WIRING FOR H.V.A.C. AND MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

ELECTRICAL CONTRACTOR SHALL VERIFY THE CEILING FINISHES AND SUSPENSION SYSTEMS FOR SELECTION OF THE PROPER TRIM AND SUPPORT ARRANGEMENTS OF FIXTURES.

- ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THE OWNER BEFORE ROUGH INSTALLATION OF LIGHTS, RECEPTACLES, SWITCHES AND EQUIPMENT FOR EXACT LOCATION.
- ALL SMOKE DETECTORS SHALL BE INTERLOCKED, SERVED FROM BEDROOM OR BATHROOM LIGHTING BRANCH AND SHALL BE INSTALLED AT LEAST 36" FROM ANY HVAC DIFFUSER GRILL AND PROTECTED BY AFC BREAKER

ALL ELECTRICAL EQUIPMENT MUST BE U.L. APPROVED.

BEDROOM BRANCH CIRCUITS MUST BE PROTECTED WITH "AFC" TYPE BREAKERS AS PER NEC 210-12

ALL RECEPTACLES WITHIN DWELLING UNITS ARE REQUIRED TO BE TAMPER RESISTANT RECEPTACLES IN ACCORDANCE TO NEC 406.11.

ALL RECEPTACLES WITHIN DWELLING UNITS ARE REQUIRED TO BE TAMPER RESISTANT RECEPTACLES IN ACCORDANCE TO NEC 406.11.

75% OF PERMANENT INSTALLED LIGHTING FIXTURES SHALL BE ENERGY EFFICIENT IN COMPLIANCE WITH RESIDENTIAL ENERGY EFFICIENCY CHAPTER 4 . 404 FBC

ALL BATHROOMS SHALL HAVE INDEPENDENT SEPARATE SWITCHING IN COMPLIANCE TO RESIDENTIAL FLORIDA BUILDING CODE APPENDIX F 307.3.1.

RESIDENTIAL STAIRS SHALL COMPLY WITH 1 FOOT CANDLE MINIMUM INSIDE AND OUTSIDE STAIRS FBC R303.6.

SMOKE DETECTORS REQUIRED INSIDE AND OUTSIDE ALL SLEEPING AREAS. FBC 907

GENERAL LIGHTING NOTES

- ALL FLUORESCENT FIXTURES SHALL HAVE EACH BALLAST FUSED.
- ALL FIXTURES SHALL BE PROPERLY SECURED TO CEILING GRID SYSTEM.
- VERIFY ALL DIMENSIONS AND LOCATIONS WITH TENANT PRIOR TO ROUGH-IN.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND OTHER APPLICABLE CODES AND STANDARDS.

THE CONTRACTOR IS RESPONSIBLE FOR EVALUATING FIELD CONDITIONS BY

VISITING THE SITE PRIOR TO COMMENCING/BIDDING WORK. THE CONTRACTOR SHALL SATISFACTORILY REPAIR/REPLACE EQUIPMENT OR PART

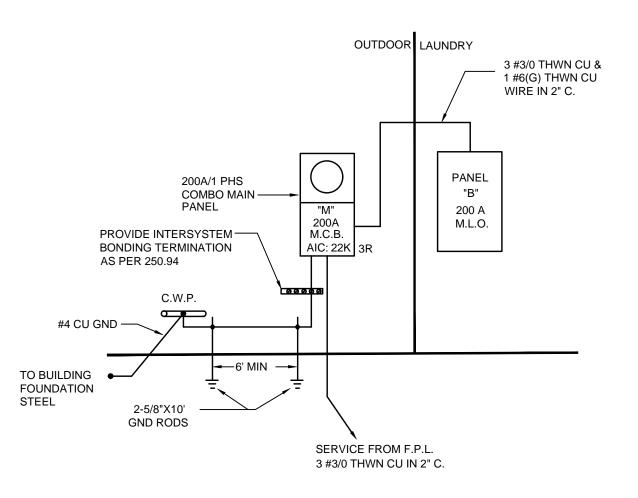
- OF STRUCTURE DAMAGED AS A RESULT OF HIS WORK. SURFACES AND FINISHED AREAS SHALL BE RESTORED TO MATCH ADJACENT AREAS.
- APPROVAL SHALL BE OBTAINED FROM THE ENGINEER PRIOR TO CUTTING OR DRILLING ANY STRUCTURAL SUPPORT MEMBER.
- ALL CONDUCTORS SHALL BE COPPER.
- ALL MATERIALS SHALL BE U.L. APPROVED.
- ALL LUMINARIES SHALL BE PROPERLY SUPPORTED IN ACCORDANCE WITH THE CEILING SYSTEM MANUFACTURER RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS.
- ALL LIGHTING CIRCUITS WHICH CONTROL AND/OR OPERATE LIGHTING FIXTURES WITH ELECTRONIC BALLAST SHALL BE PROVIDED WITH A SEPARATE NEUTRAL WIRE PER EACH PHASE.
- ALL BRANCH CIRCUITS SHALL BE SIZED IN ACCORDANCE WITH N.E.C. 210-19 REGARDLESS OF SIZES SHOWN ON PLANS OR PANEL SCHEDULES.

-) 1 2/60 11.44 AHU-1 #6, 3 5 2/40 9.00 IWH-1 #8, 3 7 9 2/40 9.00 IWH-1 #8, 3 11 13 2/30 5.00 DRYER #10, 15 -) 17 1/20 1.50 WASHER #12, -) 19 1/20 * LAUNDRY RECEPT #12, -) 21 1/20 * DINING ROOM RECEPT #12, -) 23 1/20 * HALLWAY LIGHTING #12,	CU BI	JS/G				i i	
FEEDER: SEE RISER NO. POLE KVA DESCRIPTION WIR 1 2/60 11.44 AHU-1 #6, 3 5 2/40 9.00 IWH-1 #8, 3 7 9 2/40 9.00 IWH-1 #8, 3 11 13 2/30 5.00 DRYER #10, 15 17 1/20 1.50 WASHER #12, 19 1/20 * LAUNDRY RECEPT #12, 21 1/20 * DINING ROOM RECEPT #12, 23 1/20 * HALLWAY LIGHTING #12,	RE, C		ND BU		ANEL "A" MAINS: M.L.O. VOLTS: 120/240V, 1Ø, 3W.		
NO. POLE KVA DESCRIPTION WIFT 1 2/60 11.44 AHU-1 #6, 3 5 2/40 9.00 IWH-1 #8, 3 7 9 2/40 9.00 IWH-1 #8, 3 11 13 2/30 5.00 DRYER #10, 15 17 1/20 1.50 WASHER #12, 19 1/20 * LAUNDRY RECEPT #12, 19 1/20 * DINING ROOM RECEPT #12, 21 1/20 * DINING ROOM RECEPT #12, 23 1/20 * HALLWAY LIGHTING #12,	RE, C			9	AIC: 22.000	, 544.	
-) 1 2/60 11.44 AHU-1 #6, 3 5 2/40 9.00 IWH-1 #8, 3 7 9 2/40 9.00 IWH-1 #8, 3 11 1 3 2/30 5.00 DRYER #10, 15 -) 17 1/20 1.50 WASHER #12, -) 19 1/20 * LAUNDRY RECEPT #12, -) 21 1/20 * DINING ROOM RECEPT #12, -) 23 1/20 * HALLWAY LIGHTING #12,					DESCRIPTION	WIRE, C	
3 5 2/40 9.00 IWH-1 #8, 3		2	2/40			#8, 3/4"C	
5 2/40 9.00 IWH-1 #8, 3 9 2/40 9.00 IWH-1 #8, 3 11 13 2/30 5.00 DRYER #10, 15 15 #10, #12, #12, -) 17 1/20 1.50 WASHER #12, -) 19 1/20 * LAUNDRY RECEPT #12, -) 21 1/20 * DINING ROOM RECEPT #12, -) 23 1/20 * HALLWAY LIGHTING #12,	o, . o	4		''		<i>"</i> 0, 0, . 0	
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9 2/40 9.00 IWH-1 #8, 3 11 13 2/30 5.00 DRYER #10, 15 -1 17 1/20 1.50 WASHER #12, -1 19 1/20 * LAUNDRY RECEPT #12, -1 21 1/20 * DINING ROOM RECEPT #12, -1 23 1/20 * HALLWAY LIGHTING #12,	ا ° .	8	2,00	0.00	10.000	110, 0/4 C	
11	3/4"C	10	2/30	4.00	OVEN	#10, 3/4"C	
13 2/30 5.00 DRYER	· · ·	12	_,00				
15	3/4"C	14	1/20	0.80	HOOD	#12, 1/2"C	
-) 17 1/20 1.50 WASHER #12, -) 19 1/20 * LAUNDRY RECEPT #12, -) 21 1/20 * DINING ROOM RECEPT #12, -) 23 1/20 * HALLWAY LIGHTING #12,		16	1/20			#12, 1/2"C	
-) 19 1/20 EAGNDRY RECEPT #12, -) 21 1/20 * DINING ROOM RECEPT #12, -) 23 1/20 * HALLWAY LIGHTING #12,	1/2"C	18	1/20			#12, 1/2"C	
-) 23 1/20 * HALLWAY LIGHTING #12,	1/2"C	20	1/20	1.20		#12, 1/2"C	
	1/2"C	22	1/20	0.80		#12, 1/2"C	
	, 1/2"C	24	1/20	1.50	SMALL APPLIANCES	#12, 1/2"C	
-) 25 1/20 * FAMILY ROOM LIGHTING #12,	, 1/2"C	26	1/20	1.50		#12, 1/2"C	
	, 1/2"C		1/20			#12, 1/2"C	
	, 1/2"C		1/20			#12, 1/2"C	
			1/20			#12, 1/2"C	
			1/20			#12, 1/2"C	
	, 1/2"C	36	1/20	1.20	SEPTICTANK'S PUMP	#10, 3/4"C	
37	\longrightarrow	38					
39	\longrightarrow	40					
41 OFF LOAD OALOU ATIONS	\longrightarrow	42					
SEE LOAD CALCULATIONS DEMAND DEMAND DEMAND	-					ļ	
DEMAND DEMAND 37.91 KVA / 240V x 1Ø = 157.9 AMPS							
(*)- 0.46 KVA AVERAGE AT 3 VA PER SQFT GENERAL LIC	GTING	BR A I	VICH S	FFIC	AD CALCULATIONS		
A-) CONTRACTOR TO PROVIDE AFCI TYPE BREAKERS PER			NOI I. O	,	AD CALCULATIONS		

ELECTRICAL LOAD CALCU	JLATION PER NEC	220.82	
GENERAL LIGHTING FOR +/- 1821	SQFT 5,463 VA		
IWH-1	18,000 VA		
DRYER	5,000 VA		
WASHER	1,500 VA		
RANGE	8,000 VA		
OVEN	4,000 VA		
HOOD	800 VA		
MICROWAVE	1,200 VA		
REFRIGERATOR	1,200 VA		
DISHWASHER	1,200 VA		
GARBAGE DISPOSER	800 VA		
SMALL APPLIANCES	3,000 VA		
FLOOD LIGHTS	1,000 VA		
SEPTICTANK'S PUMP	1,200 VA		
	52,363 VA		
1ST 10KVA @ 100%	10,000 VA		
REMAINDER @ 40%	<u>20,945</u> VA		
	30,945 VA		
HVAC @ 100%	11,440 VA		
TOTAL DEMAND LOAD	42,385 VA		
	DEMAND	DEMAND	
	37,905 VA	176.6	AMP

H-) PROVIDE HVAC RATED CIRCUIT BREAKER NC-) NON - CONCURRENT

P-) PHOTOCELL CONTROL



ELECTRICAL RISER DIAGRAM

1. ENGINEER CALCULATED A FAULT CURRENT OF 12.2 KAIC BASE ON CALCULATED FAULT CURRENT WE RECOMMENDS 22 KAIC. CONTRACTOR SHALL COORDINATE WITH FPL FOR ACTUAL FAULT CURRENT. EQUIPMENT INSTALLED SHALL WITHSTAND FPL'S AVAILABLE FAULT CURRENT. PRIOR TO ORDERING THE ELECTRICAL SWITCHGEAR THE CONTRACTOR SHALL OBTAIN FROM FPL A LETTER STATING THE AVAILABLE FAULT CURRENT. NO EXTRAS WILL BE ALLOWED FOR FAILURE TO DO SO.

2. ALL EQUIPMENT TO BE MOUNTED ABOVE FLOOD CRITERIA.

3. COORDINATE NEW SERVICE REQUIREMENTS WITH FPL.

Ca	alculated Fault C	urrent	<u>C</u>	alculation	<u>on</u>	
<u>= kVA x 1000 = tra</u> ns. FLA E	tr	kVA E ans. FLA	=======================================	750 240 3125		
sca = trans. FLA x 100 transformer Z sca = ampere short-circuit co	= urrent RMS symmetrical.	Isca		3125 5 % 62,500 am	peres	
Fault Current from ` [POINT TO POIN	IT METHO	D			
	Length (distance) FEET	L	=	110	Single Pha	se 240/120
	(ASC)	Isca	=	62,500	_	
	# conductors per phase	N	=		per in Nonmeta	Ilic Raceway
	Phase conductor constant	С	=	13,923 Pha	se Conductor	3/0
	Volt Line to Line	EL-L	=	240 Volt		•
'f ' factor <u>= 2 x L x I</u>		f	=	4.115		
N x C x E L-N	Neutral conductor constant	С	=L	13,923 Neu	tral Conductor	3/0
	Volt Line to Neutral	EL-N	=	120 Volt		
		f	=_	8.230		
Multiplier M = 1						
1 + f	Line to Line	М	=	0.196		
	Line to Neutral	М	=	0.108		

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SHEET TITLE:

GENERAL NOTES SCHEDULE & RISER

ct Number | 021123A

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