

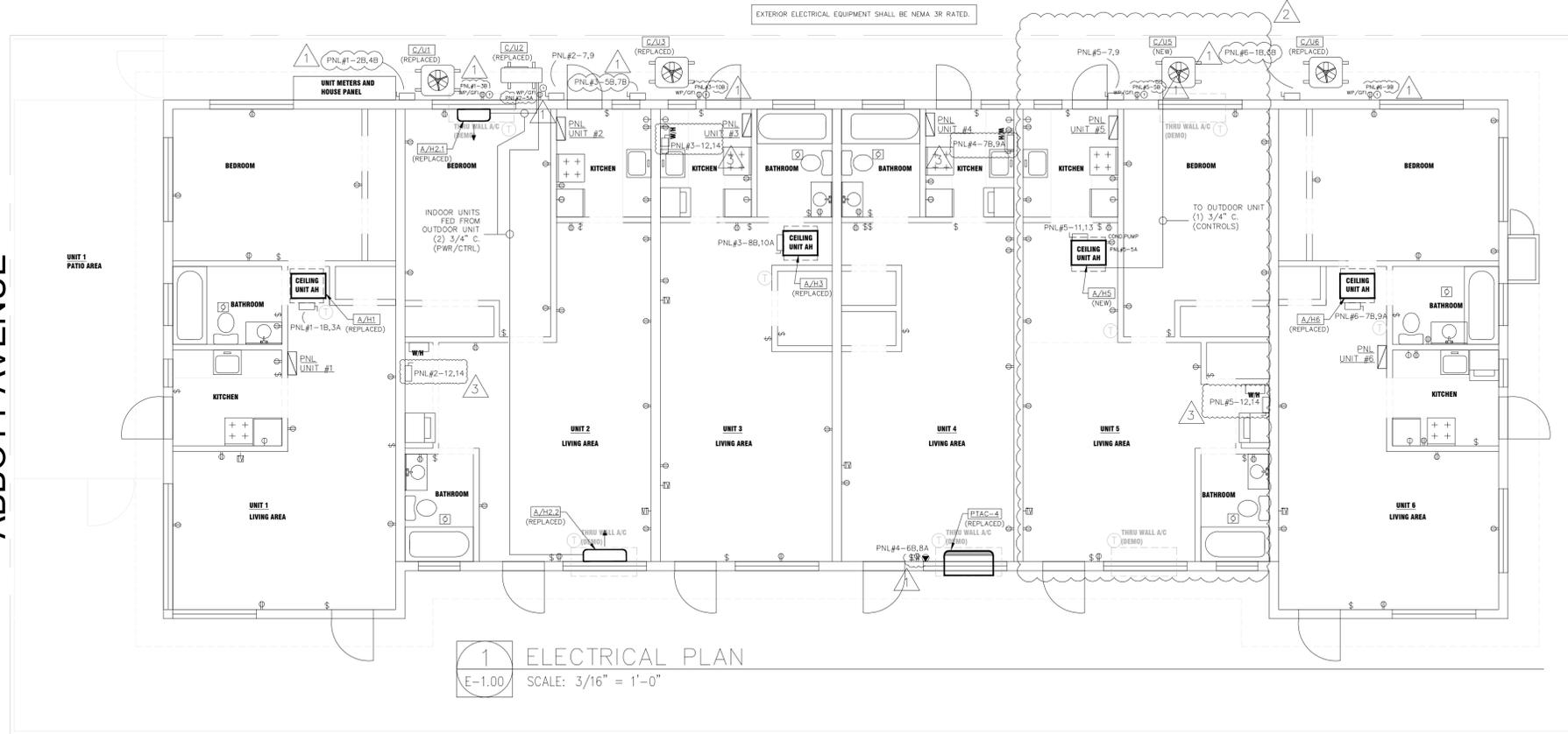
### ELECTRICAL GENERAL NOTES:

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND SHALL COMPLY WITH ALL LOCAL RULES AND ORDINANCES.
- MINIMUM WIRE SIZE SHALL BE 12 AWG, EXCLUDING CONTROL WIRING, UNLESS OTHERWISE NOTED.
- OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS, AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- DISCONNECT SWITCHES SHALL BE H.P. RATED HEAVY-DUTY, QUICK-MAKE, QUICK-BREAK ENCLOSURES AS REQUIRED BY EXPOSURE.
- IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED BY THE LATEST EDITION OF THE N.E.C.
- ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITER'S LABELS, WHERE APPLICABLE.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM THE DATE OF ACCEPTANCE.
- CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST LIABILITY OF PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS, AND TESTING.

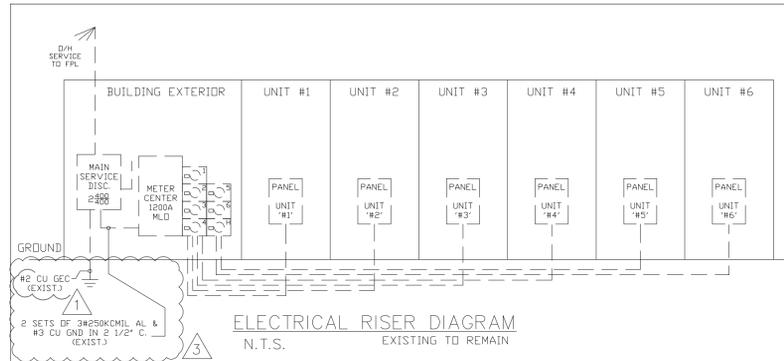
### ELECTRICAL DEMOLITION NOTES:

- WITHIN THE AREA IDENTIFIED, UNLESS SPECIFICALLY NOTED OTHERWISE, CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING LIGHT FIXTURES AS INDICATED. REMOVE ALL UNUSED CONDUIT AND WIRING BACK TO POWER SOURCE OR NEXT ACTIVE OUTLET. EXISTING CIRCUIT ASSOCIATED WITH THIS SHALL REMAIN AS SPARE(S) IN RESPECTIVE PANELS. WHERE CONDUIT IS INACCESSIBLE, REMOVE CONDUCTORS AND CUT BACK CONDUIT FLUSH WITH SLAB OR WALL. PATCH OPENINGS TO MATCH EXISTING FINISHES. WHERE EXISTING WIRING EXTENDS OUTSIDE OF THE AREA BY NATURE OF THE ORIGINAL INSTALLATION, CONTRACTOR SHALL MODIFY EXISTING WIRING AS REQUIRED TO MAINTAIN CONTINUITY OF EXISTING CIRCUITRY SUCH THAT NO EQUIPMENT TO REMAIN IS LEFT WITHOUT SERVICE.
- THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE THE EXISTING CONDITIONS PRIOR TO COMMENCING WORK AND SHALL NOTIFY THE ARCHITECT AND/OR ENGINEER IF A CONDITION EXISTS WHICH PREVENTS HIM FROM ACCOMPLISHING THE WORK INDICATED AND INTENDED BY THESE DRAWINGS.
- PRIOR TO BID, THE EXTENT AND UNDERSTANDING OF THE WORK TO BE PERFORMED SHALL BE CLEARLY ESTABLISHED SUCH THAT NO ADDITIONAL COSTS WILL BE INCURRED. ANY WORK, OTHER THAN AS DESCRIBED ON THESE DRAWINGS REQUIRED TO PROVIDE AND INSTALL ANY ITEM OR SYSTEMS, SHALL BE QUALIFIED WITH THE BID.
- PRIOR TO COMMENCING WORK, CONTRACTOR SHALL DISCONNECT POWER IN THE DEMOLITION AREA.
- CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING DEMOLITION WORK. EXISTING FEEDERS AND PANELS ARE SHOWN SCHEMATIC FOR REFERENCE PURPOSES ONLY. CONTRACTOR SHALL FIELD-VERIFY ROUTING OF ALL EXISTING FEEDERS PRIOR TO DEMOLITION.
- CONTRACTOR SHALL PROVIDE TEMPORARY POWER WHERE REQUIRED DURING DEMOLITION AND CONSTRUCTION SCOPE OF WORK.
- CONTRACTOR SHALL PROVIDE ALL REQUIRED INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY FOR THE DURATION OF THE WORK.

ABBOTT AVENUE



1 ELECTRICAL PLAN  
E-1.00 SCALE: 3/16" = 1'-0"

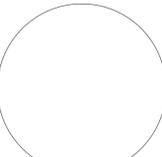


NOTE: PANEL SCHEDULES ARE BASED ON EXISTING PANEL DIRECTORIES ON SITE. CONTRACTOR SHALL FIELD VERIFY ALL CIRCUITS FOR A/C LOADS.

AC SERVICE RECEPTACLE NOTE  
PROVIDE GFCI RECEPTACLE WITHIN 25' OF AC EQUIPMENT.  
1 CONNECT TO RESPECTIVE UNIT PANEL  
EXISTING RECEPTACLE CIRCUIT.

PROJECT SCOPE OF WORK  
SCOPE OF WORK IS LIMITED TO THE FOLLOWING:  
HVAC  
- REPLACE EXISTING AC UNITS AT EACH UNIT. MODIFY/ADD POWER AS INDICATED ON PANEL SCHEDULES. RESPECTIVE CIRCUIT NUMBERS SHOWN ON FLOOR PLAN  
WATER HEATER REPLACEMENT  
- REPLACE EXISTING WATER HEATERS AT UNITS 2, 3, 4, & 5.  
RE-USE EXISTING CIRCUITS. MODIFY CB AND WIRE AS INDICATED ON PANEL.

Seal:



ROBERT M. MOLINA, P.E.  
FLORIDA REG P.E. #83253

Revisions:

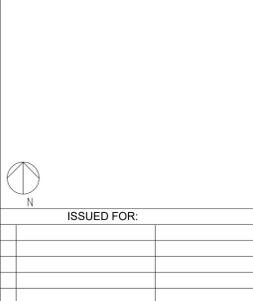
1	12-06-19	PERMIT COMMENTS
2	08-11-20	OWNER REVISION
3	12-21-20	PERMIT COMMENTS

Project Name:

WINDOW, DOOR,  
& M/E SERVICES  
REPLACEMENT

7921 ABBOTT AVENUE  
MIAMI BEACH, FL 33141

KEY PLAN



Comm. No. 2019 VIZ

Scale: AS SHOWN

Date: 11.04.2019

Drawn: RM

Checked: RM

Draw'n Title:

ELECTRICAL  
PLAN

Sheet No.

UNIT #1 EXISTING TO REMAIN 580 SQ.FT.				
Service:	CKT. NO.	BRKR.-POLE	WIRE-COND.	LOAD
120/240V-1PH, 3W	1A			
SPACE	1A			
A/H1	1B	30-2	10-1/2"	3290
	3A			
RECEPTACLE	3B	20-1	12-1/2"	*
BATH HEATER	5A	20-1	12-1/2"	1400
KITCHEN GFI	5B	20-1	12-1/2"	1500
EXISTING LOAD	7	15-1	14-1/2"	*
ELECTRIC WATER HEATER	2A	20-2T	12-1/2"	1400
C/U1	2B	20-2T	12-1/2"	-
ELECTRIC WATER HEATER	4A	20-2T	12-1/2"	1400
C/U1	4B	20-2T	12-1/2"	-
BATHROOM GFI	6A	20-1	12-1/2"	*
KITCHEN GFI	6B	20-1	12-1/2"	1500
LIGHTING	8	15-1	14-1/2"	*
* GENERAL LIGHTING LOAD @ 3 WATTS / SQ.FT.				1740
TOTAL CONNECTED LOAD (KVA)				12.2
TOTAL LESS A/C				8.9
1ST 10KW @ 100%				10.0
REMAINDER @ 40%				-
A/C LOAD @ 100%				3.3
NET DEMAND				13.3
AMPS @ 240V 1PH				55.4
MAIN BREAKER	125A-2P CB			
EXISTING FEEDER	3#2 & #6 GND IN 1 1/4" C. (EXISTING)			
PANEL NOTES				
T - INDICATES EXISTING TANDEM BREAKER				
MODIFY EXISTING AC CIRCUIT WITH NEW CB SIZE AND WIRE				
1 NEW 20-2/20-2 TANDEM BREAKER AT EXISTING 20-2 CB				

UNIT #2 EXISTING TO REMAIN 570 SQ.FT.				
Service:	CKT. NO.	BRKR.-POLE	WIRE-COND.	LOAD
120/240V-1PH, 3W	1A	20-1	12-1/2"	1500
KITCHEN GFI	1B	20-1	12-1/2"	1200
MICROWAVE	3A	20-1	12-1/2"	*
EXISTING LOAD	3B	20-1	12-1/2"	*
LIVING ROOM	5A	15-1	14-1/2"	*
EXISTING LOAD	5B	20-1	12-1/2"	*
C/U2	7	30-2	10-1/2"	3320
SPARE	9			
	11	30-2		
	13			
SPACE	2A			
DINING RECEPT.	2B	20-1	12-1/2"	*
KITCHEN GFI	4A	20-1	12-1/2"	1500
REFRIGERATOR	4B	20-1	12-1/2"	800
EXISTING LOAD	6A	20-1	12-1/2"	*
RANGE	6B	50-2	6-1"	9600
	8A			
DRYER	8B	30-2	10-1/2"	5000
GEN LTS/RECEPT.	10A			
	10B	15-1	14-1/2"	*
	12			
INSTA-HOT WATER HEATER	14	70-2	4-1 1/4"	14600
* GENERAL LIGHTING LOAD @ 3 WATTS / SQ.FT.				1710
TOTAL CONNECTED LOAD (KVA)				39.2
TOTAL LESS A/C				35.9
1ST 10KW @ 100%				10.0
REMAINDER @ 40%				10.4
A/C LOAD @ 100%				3.3
NET DEMAND				23.7
AMPS @ 240V 1PH				98.7
MAIN BREAKER	125A-2P CB			
EXISTING FEEDER	3#2 & #6 GND IN 1 1/4" C. (EXISTING)			
PANEL NOTES				
T - INDICATES EXISTING TANDEM BREAKER				
MODIFY EXISTING AC CIRCUIT WITH NEW CB SIZE AND WIRE				
1 NEW 30-2 CIRCUIT BREAKER AND WIRE				

UNIT #3 EXISTING TO REMAIN 400 SQ.FT.				
Service:	CKT. NO.	BRKR.-POLE	WIRE-COND.	LOAD
120/240V-1PH, 3W	1	20-1	12-1/2"	1500
SPACE	1B			
BATHROOM GFI	3	20-1	12-1/2"	*
SPARE	5A	30-2 T		*
EXISTING LOAD	5B	20-2 T	12-1/2"	-
C/U3	7A	30-2 T		1500
EXISTING LOAD	7B	20-2 T	12-1/2"	-
ELECTRIC WATER HEATER	9A	40-2	8-3/4"	8000
BATHROOM LIGHTS	9B	15-1	14-1/2"	*
LIGHTS	9B	15-1	14-1/2"	*
RANGE	11	40-2	8-3/4"	7200
RECEPT.	2	20-1	12-1/2"	*
GARBAGE DISPOSAL	4	20-1	12-1/2"	650
LIVING ROOM LIGHTS	6A	20-1	12-1/2"	*
REFRIGERATOR	6B	20-1	12-1/2"	800
KITCHEN GFI	8A	20-1	12-1/2"	1500
A/H3	8B	30-2	10-1/2"	3290
RECEPT.	10A			
	10B	15-1	14-1/2"	*
ELECTRIC WATER HEATER	12	40-2	8-3/4"	8000
EXISTING LOAD	14	20-2	12-1/2"	2000
* GENERAL LIGHTING LOAD @ 3 WATTS / SQ.FT.				1200
TOTAL CONNECTED LOAD (KVA)				22.6
TOTAL LESS A/C				19.4
1ST 10KW @ 100%				10.0
REMAINDER @ 40%				3.7
A/C LOAD @ 100%	C/U3 IS NON-CONCURRENT			3.3
NET DEMAND				17.0
AMPS @ 240V 1PH				71.0
MAIN BREAKER	125A-2P CB			
EXISTING FEEDER	3#2 & #6 GND IN 1 1/4" C. (EXISTING)			
PANEL NOTES				
T - INDICATES EXISTING TANDEM BREAKER				
MODIFY EXISTING AC CIRCUIT WITH NEW CB SIZE AND WIRE				
1 NEW 30-2/20-2 TANDEM BREAKER AT EXISTING 30-2 CB				

UNIT #4 EXISTING TO REMAIN 400 SQ.FT.				
Service:	CKT. NO.	BRKR.-POLE	WIRE-COND.	LOAD
120/240V-1PH, 3W	1A	20-1	12-1/2"	1500
SPACE	1B			
SPACE	3A			
SPACE	3B			
SPACE	5A			
EXISTING LOAD	5B	15-1	14-1/2"	*
EXISTING LOAD	7A	20-1	12-1/2"	1500
ELECTRIC WATER HEATER	7B	40-2	8-3/4"	8000
RANGE	9A	50-2	6-1"	9600
DRYER	11A	30-2	10-1/2"	5000
SPACE	11B			
SPACE	13A			
SPACE	13B			
SPACE	2A			
SPACE	2B			
SPACE	4A			
SPACE	4B			
SPACE	6A			
PTAC-4	6B	15-2	14-1/2"	2670
	8A			
BATHROOM GFI	8B	20-1	12-1/2"	*
FREEZER	10A	20-1	12-1/2"	850
KITCHEN GFI	10B	20-1	12-1/2"	1500
RECEPT.	10B	15-1	14-1/2"	*
	12			
EXISTING LOAD	14	20-2	12-1/2"	2000
* GENERAL LIGHTING LOAD @ 3 WATTS / SQ.FT.				1200
TOTAL CONNECTED LOAD (KVA)				32.3
TOTAL LESS A/C				32.3
1ST 10KW @ 100%				10.0
REMAINDER @ 40%				8.9
A/C LOAD @ 100%				0.0
NET DEMAND				18.9
AMPS @ 240V 1PH				78.9
MAIN BREAKER	125A-2P CB			
EXISTING FEEDER	3#2 & #6 GND IN 1 1/4" C. (EXISTING)			
PANEL NOTES				
T - INDICATES EXISTING TANDEM BREAKER				
MODIFY EXISTING AC CIRCUIT WITH NEW CB SIZE AND WIRE				
1 NEW 30-2 CIRCUIT BREAKER AND WIRE				

UNIT #5 EXISTING TO REMAIN 570 SQ.FT.				
Service:	CKT. NO.	BRKR.-POLE	WIRE-COND.	LOAD
120/240V-1PH, 3W	1A	20-1	12-1/2"	1500
SPACE	1B			
MICROWAVE	3A	20-1	12-1/2"	1200
EXISTING LOAD	3A	20-1	12-1/2"	*
EXISTING LOAD	3B	20-1	12-1/2"	*
LIVING ROOM	5A	15-1	14-1/2"	*
EXISTING LOAD	5B	20-1	12-1/2"	*
C/U5	7	15-2	12-1/2"	-
	9			
	11	30-2	10-1/2"	5480
	13			
SPACE	2A			
DINING RECEPT.	2B	20-1	12-1/2"	*
KITCHEN GFI	4A	20-1	12-1/2"	1500
REFRIGERATOR	4B	20-1	12-1/2"	800
EXISTING LOAD	6A	20-1	12-1/2"	*
RANGE	6B	50-2	6-1"	9600
DRYER	8A	30-2	10-1/2"	5000
GEN LTS/RECEPT.	10A			
	10B	15-1	14-1/2"	*
	12			
INSTA-HOT WATER HEATER	14	70-2	4-1 1/4"	14600
* GENERAL LIGHTING LOAD @ 3 WATTS / SQ.FT.				1710
TOTAL CONNECTED LOAD (KVA)				41.4
TOTAL LESS A/C				35.9
1ST 10KW @ 100%				10.0
REMAINDER @ 40%				10.4
A/C HEAT LOAD @ 65%	5KW HEAT			3.7
NET DEMAND				24.1
AMPS @ 240V 1PH				100.4
MAIN BREAKER	125A-2P CB			
EXISTING FEEDER	3#2 & #6 GND IN 1 1/4" C. (EXISTING)			
PANEL NOTES				
T - INDICATES EXISTING TANDEM BREAKER				
MODIFY EXISTING AC CIRCUIT WITH NEW CB SIZE AND WIRE				
1 NEW 30-2 CIRCUIT BREAKER AND WIRE				

UNIT #6 EXISTING TO REMAIN 580 SQ.FT.				
Service:	CKT. NO.	BRKR.-POLE	WIRE-COND.	LOAD
120/240V-1PH, 3W	1A	20-1	12-1/2"	1500
ELECTRIC WATER HEATER	1A	30-2 T	10-1/2"	2250
C/U6	1B	20-2 T	12-1/2"	-
ELECTRIC WATER HEATER	3A	30-2 T	10-1/2"	2250
C/U6	3B	20-2 T	12-1/2"	-
EXISTING LOAD	5A	15-1	14-1/2"	*
EXISTING LOAD	5B	15-1	14-1/2"	*
BATHROOM GFI	7A	20-1	12-1/2"	*
	7B	30-2	10-1/2"	3290
EXISTING LOAD	9B	20-1	12-1/2"	*
EXISTING LOAD	11A	20-1	12-1/2"	*
DRYER	11B	30-2	10-1/2"	5000
SPACE	13B			
	2			
MAIN	125-2			
DINING ROOM	6A	20-1	12-1/2"	*