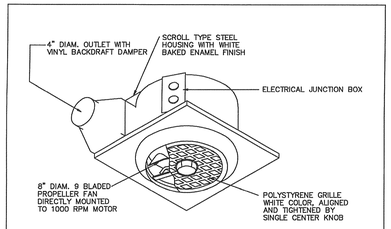
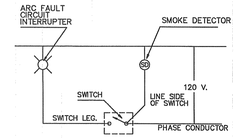


TYPICAL CEILING EXHAUST FAN DETAIL

FAN no.	CFM	VOLTS/PHASE	MODEL	MFR.	ACCESSORIES
EF-1	100	120 V/ 1 HP/	688	BROAM OR EQUAL	W/ BACKDRAFT DAMPER W/4"ø x 26 GA MTL. DUCT THOUGH ROOF OR O.H.

NOTE:
NEC 2008 ART SECTION 210-12 REQUIRES AFCI PROTECTION ON ALL BRANCH CIRCUITS SERVING 15 & 20 AMP, SINGLE PHASE 125 VOLT. OUTLETS IN DWELLING UNIT BEDROOM, LIVING RM., DINING RM., FAMILY RM., CLOSET, HALLWAY AND ALL SIMILAR AREA, SHALL BE PROTECTED BY A UL AFCI COMBINATION TYPE & TAMPER RESISTANT.

NOTES:
SMOKE DETECTORS ARE BATTERY BACK UP, 36" AWAY FROM ANY A/C VENT, AND INTERCONNECTED.
HARD WIRED CARBON MONOXIDE DETECTOR W/BATTERY BACKUP



NOTE:
SMOKE DETECTOR SHALL BE HARDWIRED (110 VOLT TYPE) TO A NON-SWITCHABLE ARC FAULT CIRCUIT INTERRUPTER, WITH BATTERY BACK-UP AND SHALL NOT BE CONNECTED ONTO THE LOAD SIDE OF GROUND FAULT CIRCUIT INTERRUPTER. ALL SMOKE DETECTORS WITHIN EACH UNIT SHALL BE INTERCONNECTED.

smoke detector connection detail

NTS

PANEL :

TYPE : SQUARE "D" or APPROVED EQUAL
SERVICE :
VOLTAGE : 240/120V 1 0 - 3/W
MOUNTING : SURFACE

MAIN BUS : 150 AMPS
NEUTRAL : 150 AMPS
MAINS : 150 AMPS
LOCATION : SHOWN

AMPS	POLES	TOTAL V.A.	COND SIZE+	WIRE	REMARKS	CKT. NO.
50	2	12000	1"	6	RANGE/OVEN	1
						3
50	2	9600	1"	6	TANKLESS WATER HTR.	5
						7
					SPARE	9
					SPARE	11
20	1	1500	1/2"	12	SMALL APPL.	13
						15
					SPARE	17
20	1	900	1/2"	12	GFI RECEPT.	19
20	1	900	1/2"	12	BATH GFI	21
30	2	5000	1/2"	10	DRYER	23
						25
15	1	*	ROMEX	14	GEN LT & SMOKE DET.	27
					OUTLETS	29
						31
						33
20	1	900	1/2"	12	EXTERIOR GFI	35
						37
						39
						41

CKT. NO.	REMARKS	WIRE	COND SIZE+	TOTAL V.A.	POLES	AMPS
2	A.H.U	6	1"	10000	2	60
4						
6	SPARE					
8	WASHER	12	1/2"	1500	1	20
10	KITCHEN LIGHT	14	1/2"	750	1	15
12	DISHWASHER	12	1/2"	1200	1	20
14	C.U.	10	1/2"	4200	2	30
16						
18	REFRIGERATOR	12	1/2"	1500	1	20
20	GEN LT & RECEP.	14	ROMEX	*	1	15
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						
42						

DEMAND LOAD : 31,914 W = 133 AMP
(SEE LOAD CALCULATION) 10,000 AIC

FEEDER : 3 # 1 THW CU IN 1-1/2"Ø COND
FED FROM : SERVICE.

ELECTRICAL LOAD CALCULATION

A. - GENERAL LIGHTING LOAD
1694.30 SQ. FT. @ 3W/SQ. FT. = 5,083 WATT

B. - TWO SMALL APPLIANCE
CIRCUITS X 1,500 = 3,000 WATT

C. - FIXED APPLIANCES:

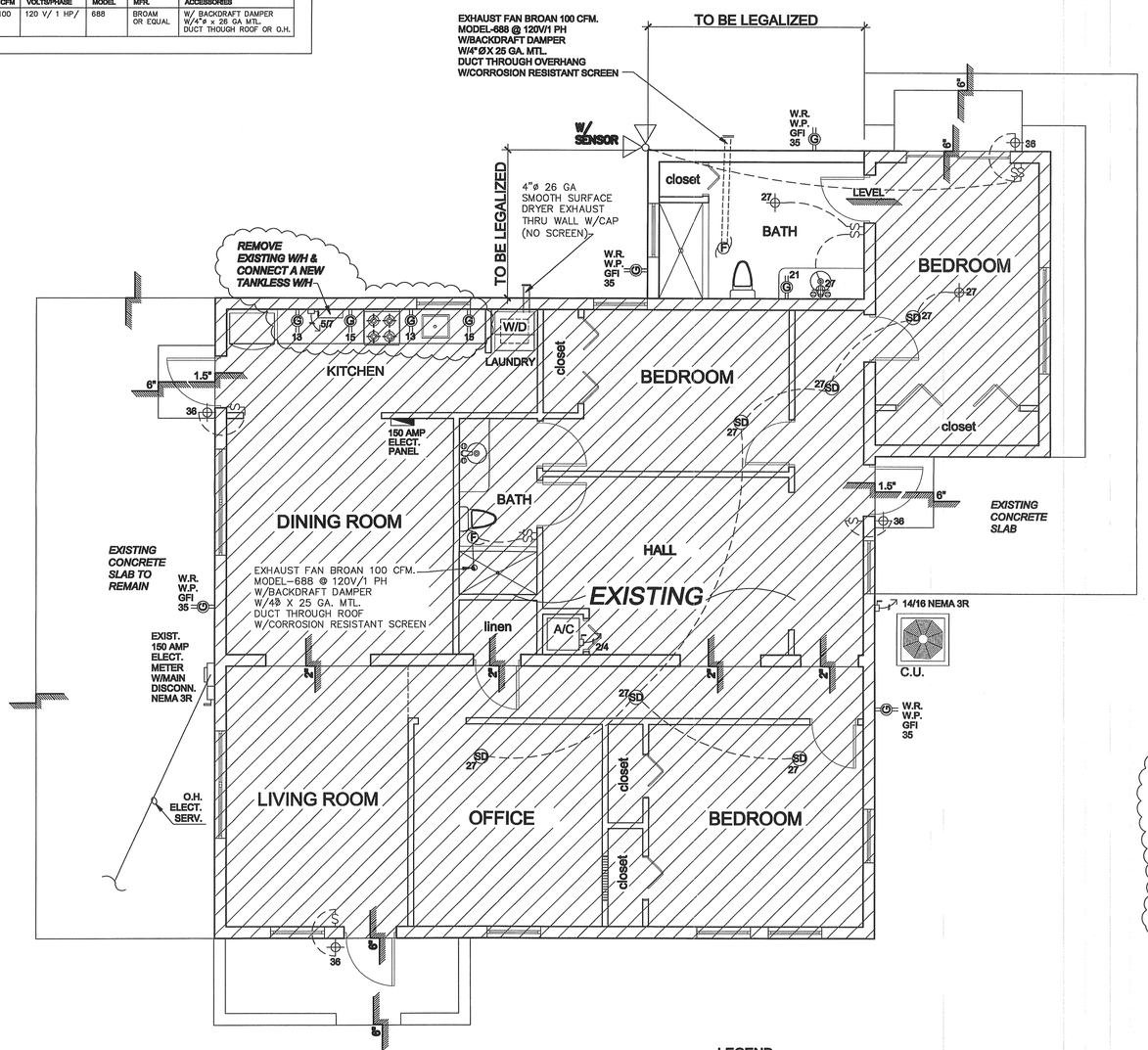
RANGE	12000
REFRIGERATOR	1500
DRYER	5000
WASHER	1500
TANKLESS WATER HTR.	9600
DISHWASHER	1200

D. - ONE G.F.I. BATH CIRCUIT
X 900 = 900 WATTS

CONNECTED LOAD LESS A/C = 39,783 WATT
10000 W @ 100% = 10000 WATT
REST W @ 40% = 11,914WATT
A/C (or heating) @ 100% =10000 WATT
DEMAND LOAD = 31,914 / 240 WATT = 133 AMP @ 240/120 V
SERVICE SIZE = 150 AMP

ELECTRICAL LEGEND

- SWITCH
- DUPLEX RECEPTACLE
- G.F.I. DUP. RECEPT.
- 240 V. OUTLET
- LIGHT FIXTURE
- HEATER LIGHT
- RECESSED DOWNLIGHT
- TELEPHONE
- TV TELEVISION
- DISCONNECT
- ELECTRIC PANEL
- CLG. FAN W/ LIGHT & P.C.
- F EXHAUST FAN
- DBL. F48 FLUORESCENT LAMP
- SD SMOKE DETECTOR
- FLOOD LIGHT
- WP WEATHER-PROOF



ELECTRICAL PLAN

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

THE CONSTRUCTION DOCUMENTS HAVE BEEN PREPARED IN COMPLIANCE WITH FBC 2014, 5TH EDITION

LEGEND
- EXISTING PARTITIONS TO REMAIN
- PARTITIONS TO BE LEGALIZED
- EXISTING C.B.S. WALLS TO REMAIN
- C.B.S. WALLS TO BE LEGALIZED

ONLY NEW RECEPTACLES & LIGHT FIXTURES ARE SHOWN TO AVOID CONFUSION

NOTE:
NON-LOCKING RECEPTACLES IN DAMP AND WET LOCATIONS SHALL BE LISTED WEATHER-RESISTANT (IN ADDITION TO PROVISION OF THE REQUIRED TYPE OF COVERS) NEC 406.8 (A) & (B).

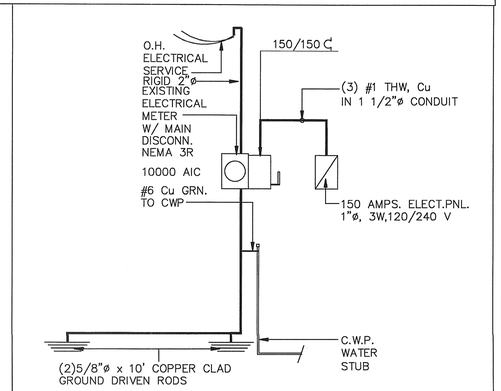
NOTE:
TAMPER RESISTANT RECEPTACLES ARE REQUIRED FOR ALL 15 AND 20 AMP 125 VAC RECEPTACLES

SCOPE OF WORK:

- NEW TANKLESS W/H HAD BEEN CONNECTED (SEE LOCATION)
- ELECTRICAL SYSTEM IS ALREADY UPDATED (ONE METER AND ONE PANEL)
- KITCHEN LAYOUT OF SMALL APPLIANCES HAD BEEN BROUGHT TO CODE.

Electrical Notes:

1. ALL WORK SHALL COMPLY WITH THE LATEST EDITION ON THE "NATIONAL ELECTRICAL CODE" (NEC) & THE "FLORIDA BUILDING CODE" (FBC).
2. ALL CABLE SHALL BE COPPER UNLESS OTHERWISE NOTED AND APPROVED.
3. INDOORS CONDUIT SHALL BE EMT OR RMX CABLE.
4. OUTDOORS UNDERGROUND CONDUITS SHALL BE SCHEDULE-40 PVC UNDER PAVED AREAS.
5. CONTRACTOR SHALL FURNISHED ALL LABOR, MATERIALS AND EQUIP. FOR A COMPLETE ELEC. INST. IN ACCORDANCE WITH THE ELECTRICAL DRAWINGS AND APPLICABLE CODES AND REGULATIONS.
6. ELEC. CONTRACTOR TO COORDINATE ALL OUTLET LOCATIONS WITH BLDG. AND ARCH. FIXTURES.
7. ELCT. CONTRACTOR TO PROVIDE EMPTY CONDUITS AS REQD. FOR TELEPHONE LINES & T.V. LINES.
8. ALL MOUNTING HARDWARE SHALL BE BY CONTRACTOR.
9. ALL LIGHT FIXTURES AND FANS TO BE SELECTED BY OWNER, UNLESS OTHERWISE NOTED.
10. ELECTRICAL CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO COMENCING ANY WORK. CONTRACTOR TO VERIFY AND APPROVE ALL INFORMATION ON DRAWINGS. ACCEPTANCE OF THESE PLANS CONSTITUTES APPROVAL. PLEASE NOTIFY ARCHITECT / ENGINEER BY CERTIFIED MAIL ON ANY CONFLITS OR DISCREPANCIES IF ANY.



existing electrical riser diagram

NTS

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CONSULTING ENGINEER
FL. P.E. No 19363
8340 S.W. 65th AVENUE UNIT 3
MIAMI, FLORIDA 33143
TEL: (305) 298-3216

Project Title:
AS BUILT PLANS FOR DEMOLITION/LEGALIZATION OF ELLAWISH LLC II

Address:
2419 N.W. 99th STREET
MIAMI, FL. 33147

THESE DRAWINGS AND DESIGNS ARE THE PROPERTY OF FERMIN A. MARTINEZ, P.E. AND SHALL NOT BE REPRODUCED WITHOUT HIS WRITTEN CONSENT.

This Sheet

REVISIONS
1 18-04-16

DESCRIPTION
Project No. 15-57
Date: 07-12-15
Drawn By: PEDRO PUERTO/ CBS (305) 262 8075
Approved By: F.A.M.

SEAL
FERMIN A. MARTINEZ LICENSE No. 19363 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHEET NO.
E-1

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John Jordahl 5/5/2016 1:07:47 PM A ELEC Approved