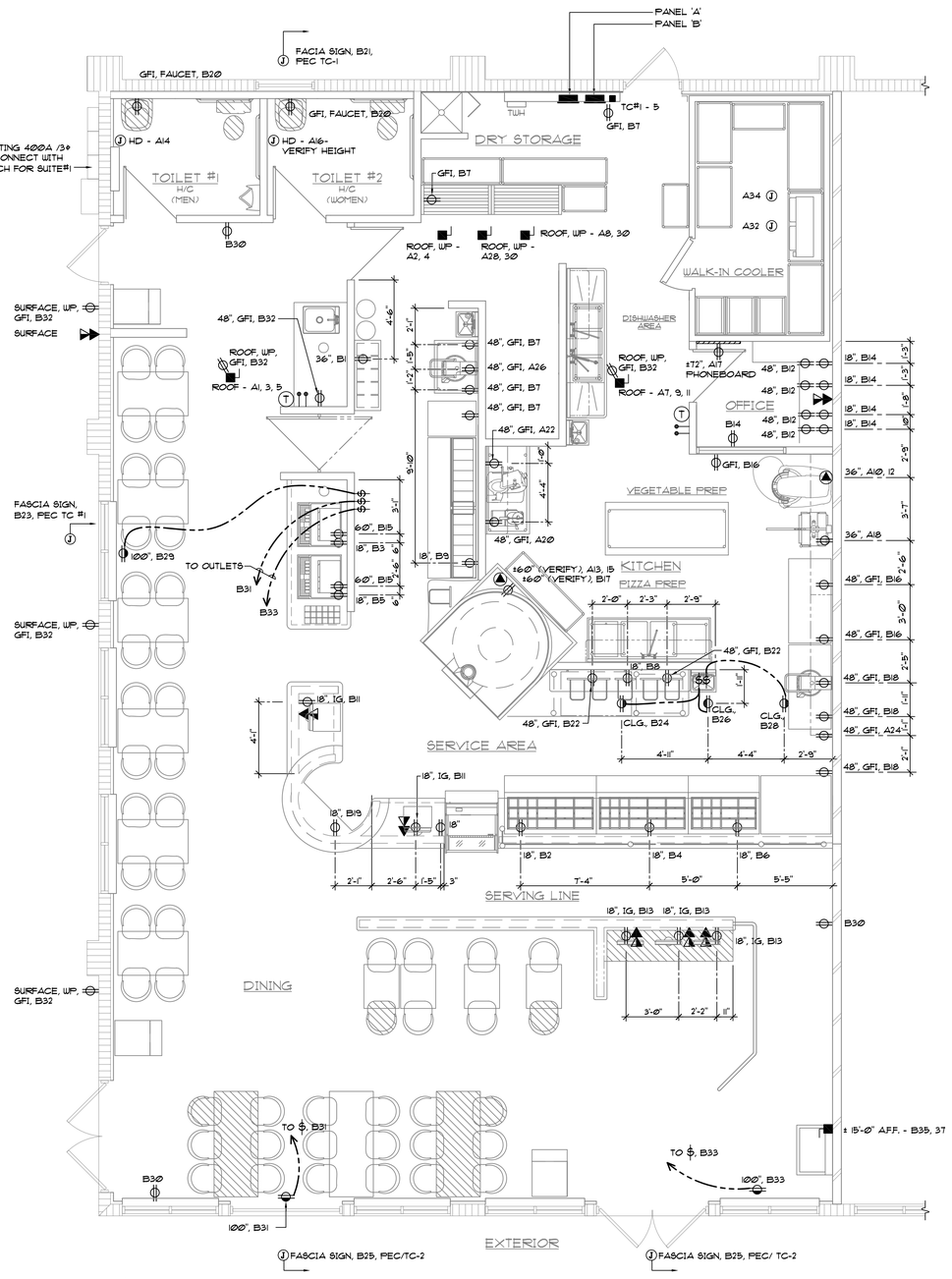


POWER PLAN

1/4" = 1'-Ø"

ELECTRIC LEGEND

- NEW QUADPLEX FLOOR OUTLET - GFI
- NEW DUPLEX OUTLET (TOP 1/2 SWITCHED)
- NEW DUPLEX OUTLET - 18" A.F.F. U.O.N. TO CENTER U.O.N.
- NEW QUADPLEX OUTLET - 18" A.F.F. U.O.N. TO CENTER U.O.N.
- NEW DATA JUNCTION BOX AT 18" A.F.F. U.O.N. WITH ¾" CONDUIT TO ABOVE CEILING AND PULL WIRE (IN FLOOR PIER PLAN).
- NEW TELEPHONE JUNCTION BOX AT 18" A.F.F. U.O.N. WITH ¾" ø CONDUIT TO ABOVE CEILING AND PULL WIRE (IN FLOOR PIER PLAN)
- JUNCTION BOX
- NEW SWITCH
- NEW DIMMER SWITCH
- NEW DISCONNECT (NEMA 3R AT EXTERIOR)
- NEW CABLE TV BOX WITH ¾"ø CONDUIT TO ABOVE CEILING, WITH PULL WIRE - VERIFY HEIGHT
- NEW THERMOSTAT
- NEW DUCT DETECTOR DEVICE
- SPEAKER AT CEILING ABOVE

NOTES: 1) HEIGHTS SHOWN ARE TO CENTER OF DEVICE.

ELECTRICAL NOTES:

1.) All electrical work shall comply with the 2014 Florida Building Code, and the 2011 National Electrical Code with local amendments.
2.) Provide typewritten panel directory to indicate panel circuiting.
3.) Verify proper disconnect switches for A/C units. Sized per nameplate.
4.) All electrical equipment exposed to the weather shall be weatherproof.
5.) The electrical sub-contractor shall be responsible for full coordination of this work with that of the general contractor and the other sub-contractors.
6.) Provide architect with as-built drawings.
7.) Provide a guarantee against defective workmanship, materials and equipment for a period of one year from the date of final acceptance by the owner.
8.) All power and control wiring shall be by the electrical sub-contractor. All wiring shall be in conduit. Control wiring as directed by A/C sub-contractor.
9.) Electrical contractor shall be responsible for all applicable fees, taxes, and permits.
10.) All wiring devices shall be U.L. listed and new.
11.) All conduit shall be Schedule 80 PVC where exposed to physical damage as required by code. EMT may be used indoors, where not subject to abuse. Schedule 40 PVC may be used underground and where not exposed to physical damage per Code.
12.) All wire shall be copper #12 and smaller shall be solid THWN. #10 and larger shall be stranded THWN. Control wiring shall be #14 THHN.
13.) IG denotes isolated ground.
14.) All circuit breakers shall be plug in type. Down stream circuit breakers shall be series rated with main breaker.
15.) Furnish service disconnects for all air-conditioning/mechanical units. Verify breaker sizes with mechanical contractor required sizes.
16.) W.P. denotes weatherproof. Weatherproof receptacle covers shall be equal to GE 9231-9 series.
17.) Install receptacles at 18" A.F.F. to center of box unless otherwise noted.
18.) All work shall be concealed unless otherwise noted.
19.) **'S'** denotes surface mounted outlet.
20.) All wiring shall be concealed unless otherwise noted.
21.) Burglar alarm system is not in contract. Coordinate all conduits and labeling of tenant's data system prior to construction.
22.) Switches and outlets, with covers, shall be "Standard" style. Color shall be white. Copper plates at Kitchen shall be brushed chrome.
23.) Contractor shall wire thermostats.
24.) GFI units shall have GFI feature built into unit.
25.) New phone board shall be ¾" X 24" X 36" fire retardant plywood. Top at 8'-11" A.F.F. Ground phone board per N.E.C. Conduit shall be 1"ø.
26.) Low voltage wiring for phones & data is not in contract (N.I.C.),
27.) Time clocks shall be Intermatic T100 series 40 AMP, Type 1 (110 Volt).
28.) Fascia sign company shall furnish/install PEC at signs. Verify locations in field prior to construction.
29.) **Coordinate all equipment electrical requirements with manufacturer prior to construction.**
20.) **NO FIRE ALARM AT THIS PROJECT.**

NEW PANELBOARD SCHEDULE 'A'

BUS AMP A	B	C	LOAD DESCRIPTION		POLE	TRIP	#		#	TRIP	POLE	LOAD DESCRIPTION		BUS AMP A	B	C
51			A/C #1	#6,3/4"	3	60	1		2	20	2	WIC. COMPRESSOR	#12,1/2"	12		
	51		---		---	---	3		4	---	---	---			12	
		51	---		---	---	5		6	20	2	ICEMAKER CONDENSER	#12,1/2"			11
39			A/C #2	#6,3/4"	3	50	7		8	---	---	---		11		
	39		---		---	---	9		10	20	2	DOUGH MIXER	#12,1/2"		10	
		39	---		---	---	11		12	---	---	---				10
15			PIZZA OVEN	#12,1/2"	2	25	13		14	20	1	HAND DRYER	#12,1/2"	10		
	15		---		---	---	15		16	20	1	HAND DRYER	#12,1/2"		10	
		6	PHONEBOARD	#12,1/2"	1	20	17		18	20	1	DOUGH MIXER	#12,1/2"			8
			PANEL 'B'	#3/0, 2"	3	200	19		20	20	1	FOOD PROCESSOR	#12,1/2"	10		
			---		---	---	21		22	20	1	SLICER	#12,1/2"		5	
			---		---	---	23		24	20	1	DOUGH PRESS	#12,1/2"			13
							25		26	20	1	DOUGH PRESS	#12,1/2"	13		
							27		28	20	2	ICE CONDENSOR	#12,1/2"		11	
							29		30	---	---	---				11
							31		32	20	1	W.I.C. FCU	#12,1/2"	12		
							33		34	20	1	W.I.C. LIGHTS	#12,1/2"		5	
							35		36	20	1	SPARE	#12,1/2"			
							37		38	20	1	SPARE	#12,1/2"			
							39		40	20	1	SPARE	#12,1/2"			

RATED VOLTAGE: ■ VERIFY 120/208 ☐ 120/240 ☐ 277/480 3 PHASE 4 WIRE POLES: ☐ 12 ☐ 20 ☐ 30 ■ 40
RATED AMPS: ☐ 100 ☐ 150 ☐ 200 ☐ 225 ■ 400 MOUNT: ☐ SURFACE ■ FLUSH
FULL NEUTRAL BUS ■ GROUND BUS ☐
☐ BOLT-IN TYPE ■ PLUG-IN TYPE FEED IS TO BE: ■ BOTTOM ☐ TOP
■ MAIN LUG ONLY ☐ MAIN CIRCUIT BREAKER_____ AMPS
All breakers must be rated to interrupt a short circuit ISC of 22,000 amps symmetrical (Series rated with main)
Approved Manufacturers-Square "D" or equal.

NEW PANELBOARD SCHEDULE 'B'

BUS AMP A	B	C	LOAD DESCRIPTION		POLE	TRIP	#		#	TRIP	POLE	LOAD DESCRIPTION		BUS AMP A	B	C
20			BAG-IN-BOX	#Ø,3/4"	1	30	1		2	20	1	DROP-IN COLD PAN	#12,1/2"	9		
	10		SODA DISPENSER	#12,1/2"	1	20	3		4	20	1	DROP-IN COLD PAN	#12,1/2"		9	
		10	SODA DISPENSER	#12,1/2"	1	20	5		6	20	1	DROP-IN COLD PAN	#12,1/2"			9
7.5			GFI RECEPTACLES	#12,1/2"	1	20	7		8	20	1	UC REF. (FUTURE)	#12,1/2"	5		
	12		RECEPTACLES	#12,1/2"	1	20	9		10	25	1	DISPLAY CASE	#12,1/2"		15	
		6	P.O.B. - IG	#12,1/2"	1	20	11		12	20	1	GENERAL RECEP.	#12,1/2"			6
6			P.O.B. - IG	#12,1/2"	1	20	13		14	20	1	GENERAL RECEP.	#12,1/2"	9		
	6		2 ICEMAKERS	#12,1/2"	1	20	15		16	20	1	GFI RECEPTACLES	#12,1/2"		6	
		5	PIZZA OVEN	#12,1/2"	1	20	17		18	20	1	GFI RECEPTACLES	#12,1/2"			6
5			RECEPTACLE	#12,1/2"	1	20	19		20	20	1	FAUCETS - GFI	#12,1/2"	6		
	10		FASCIA SIGN-NOTE #1	#12,1/2"	1	20	21		22	20	1	GENERAL RECEP. - GFI	#12,1/2"		3	
		10	FASCIA SIGN-NOTE #1	#12,1/2"	1	20	23		24	20	1	CEILING RECEPTACLES	#12,1/2"			6
10			FASCIA SIGN-NOTE #2	#12,1/2"	1	20	25		26	20	1	CEILING RECEPTACLES	#12,1/2"	6		
	10		FASCIA SIGN-NOTE #2	#12,1/2"	1	20	27		28	20	1	CEILING RECEPTACLES	#12,1/2"		6	
		10	SHOW-WINDOW	#12,1/2"	1	20	29		30	20	1	GENERAL RECEPTACLES	#12,1/2"			7.5
10			SHOW-WINDOW	#12,1/2"	1	20	31		32	20	1	GFI RECEPTACLES	#12,1/2"	6		
	10		SHOW-WINDOW	#12,1/2"	1	20	33		34	20	1	LIGHTS - T/C #3	#12,1/2"		8	
		38	TUH	#8,3/4"	2	40	35		36	20	1	LIGHTS - T/C #4	#12,1/2"			10
38			---		---	---	37		38	20	1	LIGHTS - T/C #5	#12,1/2"	10		
			SPARE	#12,1/2"	1	20	39		40	20	1	LIGHTS	#12,1/2"			10

RATED VOLTAGE: ■ VERIFY 120/208 ☐ 120/240 ☐ 277/480 3 PHASE 4 WIRE POLES: ☐ 12 ☐ 20 ☐ 30 ■ 40
RATED AMPS: ☐ 100 ☐ 150 ■ 200 ☐ 225 MOUNT: ☐ SURFACE ■ FLUSH
FULL NEUTRAL BUS ■ GROUND BUS ☐
☐ BOLT-IN TYPE ■ PLUG-IN TYPE FEED IS TO BE: ■ BOTTOM
■ MAIN LUG ONLY ☐ MAIN CIRCUIT BREAKER_____ AMPS
All breakers must be rated to interrupt a short circuit ISC of 22,000 amps symmetrical (Series rated with main)
Approved Manufacturers-Square "D" or equal - Load center

PANEL 'B' NOTES:
1.) THRU PEC & T/C #1.
2.) THRU PEC & T/C #2.

ELECTRICAL LOAD CALCULATIONS:

NEW PANEL 'A'

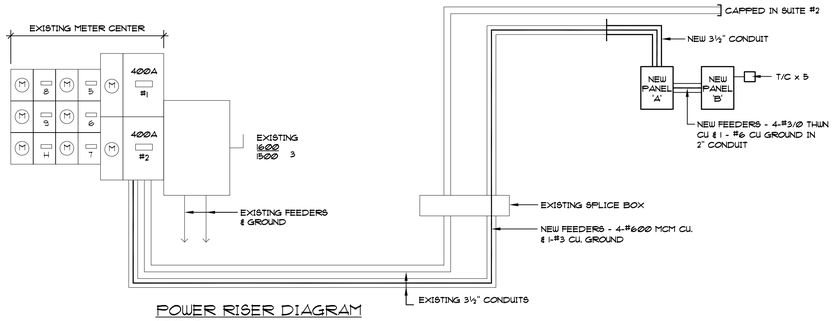
A/C #1	18,360 Watts
A/C #2	14,000
Pizza Oven	3,120
W.I. Cooler Compressor	2,500
Icemaker Compressor	2,300
Icemaker Compressor	2,300
Dough Mixer	7,000
2 Hand Dryers @ 1,200 Watts	2,400
Dough Divider	960
Slicer	600
2 Dough Presses @ 1,500 Watts	3,000
W.I. Cooler Evaporator & Lights	1,870
Phoneboard	720
Panel 'B'	44,975
TOTAL =	104,05 Watts
	360 = 289 AMPS

New Panel Shall Be 400 AMP/3ø

NEW PANEL 'B'

Bag-In- Box	2,400 Watts
Soda Dispenser - 2 @ 1,200 Watts	2,400
Prep table	1,440
POS	1,440
Icemakers - 2 @ 720 Watts	1,440
Pizza Oven Connection	600
Dedicated Receptacle	600
Fascia Signs - 4 @ 1,200 Watts	4,800
Show Windows - 3 @ 1,200 Watts	3,600
Drop-In Cold Pan - 3 @ 1,080 Watts	3,240
UC Refrigerator	600
Display Case	1,650
General Receptacles - 32 @ 180 Watts	5,760
Power Activated Faucets	720
Ceiling Receptacles - 3 @180 Watts	2,160
Lights - 3,300 Watts X 1.25	4,125
Tankless Water Heater	8,000
TOTAL =	44,975 Watts
	360 = 125 AMPS

New Panel Shall Be 200 AMP/3ø



POWER RISER DIAGRAM

NO SCALE

POWER RISER NOTES:
1.) Verify electrical service entrance, meter, and disconnect service prior to construction.
2.) Conduits not associated with this project not shown.

APRIL 21, 2016

REVISIONS	BY

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ARCHITECTS
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INTERIOR IMPROVEMENTS
FIRED UP PIZZA
8170 OKEECHOBEE BLVD. - SUITES 1 & 2
SEDONA COMMONS - BUILDING #7
WEST PALM BEACH, FLORIDA

DRAWN	GWT
CHECKED	KUOPPALA
DATE	APRIL 21, 2016
SCALE	AS NOTED
COMM. NO.	16-07
SHEET	E-1
OF	2 SHEETS