# ELECTRICAL PANEL SCHEDULE

**PANEL: A** **SERVICE:** 120/208V, 3P, 4W + GND **FEEDERS:** SEE ONE LINE DIAGRAM

**PANEL TYPE:** SQ-D "NQOD" OR EQUAL **BUS RATING:** 200 A M.L.O. **MOUNTING:** NEMA-1 RECESSED

| LOAD DESCRIPTION | NOTE | LOAD VOLT-AMP | WIRE | CB/P | A B C | CB/P | WIRE | LOAD VOLT-AMP | NOTE | LOAD DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|
| AREA LIGHTS | ** | 1080 | 10 | 20/2 | 1 | 2 20/1 | 12 | 750 | | DINING RM. LIGHTS |
| | | 1080 | 10 | | 3 | 4 20/1 | 12 | 810 | | DINING RM. LIGHTS |
| AREA LIGHTS | ** | 1080 | 10 | 20/2 | 5 | 6 20/1 | 12 | 1500 | | KITCHEN AREA LIGHTS |
| | | 1080 | 10 | | 7 | 8 20/1 | 12 | 720 | | OCU / CREDIT CARD SWIPE |
| PYLON SIGNS * | ** | 1200 | 12 | 20/1 | 9 | 10 20/1 | 12 | 900 | | DIGITAL MENU BOARD |
| SECONDARY PYLON SIGN * | ** | 1200 | 12 | 20/1 | 11 | 12 20/1 | 12 | 400 | | RESTROOM LIGHTS/EF-2 |
| DRIVE-THRU MENU SIGNS | | 720 | 12 | 20/1 | 13 | 14 20/1 | 12 | 720 | | DIRECTIONAL SIGNS |
| DATA PRINTER RECEPTACLES | GFCI | 600 | 12 | 20/1 | 15 | 16 20/1 | 12 | 1320 | | KITCHEN/SERVICE/OFFICE LIGHTS |
| SPARE | | | | 20/1 | 17 | 18 20/1 | 12 | 360 | | SMOKE DET. ALARM PANEL |
| CHANNEL LETTERS / LOGO | ** | 1200 | 12 | 20/1 | 19 | 20 20/1 | 12 | 660 | GFCI | DINING RECEPTACLE |
| RED LED LIGHTS | ** | 240 | 10 | 20/1 | 21 | 22 20/1 | 12 | 720 | | EMS PANEL |
| CHANNEL LETTERS / LOGO | ** | 1200 | 12 | 20/1 | 23 | 24 20/1 | 12 | 1550 | | EXTERIOR BUILDING LIGHTS ** |
| DINING ROOM RECEPTACLES | | 1200 | 12 | 20/1 | 25 | 26 20/1 | 12 | 180 | | TELEPHONE REC. |
| EXTERIOR BUILDING LIGHTS | ** | 1475 | 12 | 20/1 | 27 | 28 20/1 | | | | SPARE |
| COOL/FRZR LIGHTS/DOOR HTR/HE. | | 400 | 12 | 20/1 | 29 | 30 20/1 | 12 | 360 | GFCI | KITCHEN RECEPTACLES |
| ROOF/EXTERIOR RECEPTACLES | | 720 | 12 | 20/1 | 31 | 32 20/2 | 12 | 1080 | | AREA LIGHTS ** |
| SERVICE COUNTER/CORRIDOR | | 360 | 12 | 20/1 | 33 | 34 | | 1080 | | |
| D/T SPEED/SERVICE #90C CAMERA | | 540 | 12 | 20/1 | 35 | 36 20/1 | 12 | 720 | | OFFICE RECEPTACLES |
| KITCHEN AREA LIGHTS | | 1200 | 12 | 20/1 | 37 | 38 20/2 | 12 | 700 | | SEWAGE PUMPING STATION |
| CREW/STORAGE RECEPTACLES | GFCI | 540 | 12 | 20/1 | 39 | 40 | | 700 | | |
| CHANNEL LETTERS / LOGO | ** | 1200 | 12 | 20/1 | 41 | 42 20/1 | 12 | 300 | | SAFE #970 |

**TOTAL CONNECTED LOAD:** 38,290 VA **PHASE 'A':** 13200 VA

**TOTAL CONNECTED AMPS:** 106 AMP **PHASE 'B':** 13805 VA

**PHASE 'C':** 11285 VA

**NOTES:**
(TC) = WIRE THROUGH CONTACTOR.
(HACR) = HACR TYPE BREAKER.
(LO) = LOCKED BREAKER
(GFCI) = GROUND FAULT CIRCUIT INTERRUPTER
(IG) = WIRE SEPARATE TO ISOLATED GROUND BUS.

PANEL 'A' NOTES:
1. ** ELECTRICAL CONTRACTOR TO WIRE THESE CIRCUITS THRU MASTER CONTACTOR PANEL. REFERENCE WIRING DIAGRAMS SHEET E-5.
2. ALL BREAKERS SHALL BE RATED FOR SWITCHING DUTY.
3. * VERIFY CIRCUIT REQUIREMENTS FOR PYLON SIGN.
4. *** ZONES A & B ONLY. COORDINATE WITH HVAC.

# ELECTRICAL PANEL SCHEDULE

**PANEL: M** **A.I.C. RATING:** 42,000 **SERVICE:** 120/208V, 3P, 4W + GND **FEEDERS:** SEE ONE LINE DIAGRAM

**PANEL TYPE:** SQ-D "I-LINE" OR EQUAL **SIZE:** 800 AMP MLO **MOUNTING:** NEMA-1 RECESSED

| LOAD DESCRIPTION | NOTE | LOAD VOLT-AMP | WIRE | CB/P | A B C | CB/P | WIRE | LOAD VOLT-AMP | NOTE | LOAD DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|
| PANEL A | | 13200 | 3/0 | 200/3 | 1 | 2 200/3 | 3/0 | 14206 | | PANEL B |
| | | 13805 | | | | | | 15918 | | |
| | | 11285 | | | | | | 15348 | | |
| RTU-1 | HACR | 3725 | #8 | 50/3 | 3 | 4 100/3 | 1/0 | 15360 | | |
| | | 3725 | | | | | | 16320 | | |
| | | 3725 | | | | | | 10800 | | |
| RTU-3 | HACR | 2544 | #10 | 40/3 | 5 | 6 40/3 | #10 | 2544 | | RTU-2 |
| | | 2544 | | | | | | 2544 | | |
| | | 2544 | | | | | | 2544 | | |
| EF-1 #23 | | 350 | #12 | 20/2 | 7 | 8 30/3 | #10 | 3240 | | CONVECTION OVEN #36 |
| | | 350 | | | | | | 3240 | | |
| SPACE | | | | | | | | 3240 | | |
| EF-2 #33 | | 350 | #12 | 20/2 | 9 | 10 35/2 | #8 | 1440 | | FROZEN BEV. DISP. |
| | | 350 | | | | | | 1400 | | |
| | | | | | | | | | | |
| WALK-IN BOX COOLER CONDENSER | | 465 | #12 | 20/2 | 11 | 12 200/3 | 3/0 | 20108 | | PANEL C |
| | | 465 | | | | | | 20108 | | |
| | | | | | | | | 18668 | | |
| WALK-IN BOX FREEZER CONDENSER | | 3024 | #10 | 30/3 | 13 | 14 50/3 | #8 | 3725 | | RTU-4 |
| | | 3024 | | | | | | 3725 | | |
| | | 3024 | | | | | | 3725 | | |

**TOTAL CONNECTED LOAD:** 238823 VA **PHASE 'A':** 78692 VA

**TOTAL CONNECTED AMPS:** 663 AMPS **PHASE 'B':** 81371 VA

**PHASE 'C':** 78760 VA

**NOTES:**
(TC) = WIRE THROUGH CONTACTOR.
(HACR) = HACR TYPE BREAKER.
(LO) = LOCKED BREAKER
(GFCI) = GROUND FAULT CIRCUIT INTERRUPTER
(IG) = WIRE SEPARATE TO ISOLATED GROUND BUS.

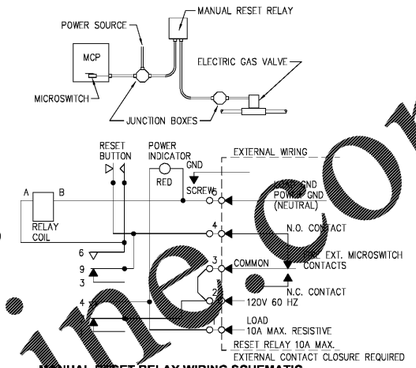
**LOAD SUMMARY**

KITCHEN LOADS
A 0
B 34840
D 15360
M 25962
TOTAL 76162 X 65% = 49505

LIGHTING LOADS
A 16330
B 0
D 0
M 0
TOTAL 16330 X 125% = 20412

REMAINING LOADS
A 21960
B 10632
D 14640
M 31844
TOTAL 79076 X 100% = 79076

TOTAL ADJUSTED LOAD = 148,993 (414A)




**MANUAL RESET RELAY WIRING SCHEMATIC**

**AMEREX AUTOMATIC FIRE CONTROL SYSTEM**

SCALE: NONE

# ELECTRICAL PANEL SCHEDULE

**PANEL: B** **SERVICE:** 120/208V, 3P, 4W + GND **FEEDERS:** SEE ONE LINE DIAGRAM

**PANEL TYPE:** SQ-D "NQOD" OR EQUAL **SIZE:** 200 AMP MLO **MOUNTING:** NEMA-1 RECESSED

| LOAD DESCRIPTION | NOTE | LOAD VOLT-AMP | WIRE | CB/P | A B C | CB/P | WIRE | LOAD VOLT-AMP | NOTE | LOAD DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|
| SELF-SERVE DRINK DISPENSER #10 | | 600 | 12 | 20/1 | 1 | 2 20/1 | | | | SPARE |
| P.O.S. RECEPTACLES GFCI | IG/LO | 1320 | 12 | 20/1 | 3 | 4 20/1 | 12 | 360 | | PRODUCT HOLDING FREEZER |
| P.O.S. RECEPTACLES GFCI | IG/LO | 1320 | 12 | 20/1 | 5 | 6 20/1 | 12 | 400 | | BROILER CONTROLS |
| DRIVE-THRU DRINK DISPENSER #11 | | 600 | 12 | 20/1 | 7 | 8 20/1 | 12 | 1200 | | U/C REFRIGERATOR #53 |
| REAR DOOR BUZZER | | 720 | 12 | 20/1 | 9 | 10 20/1 | 12 | 360 | | COMBINATION FREEZER |
| DOOR ALARM | | 720 | 12 | 20/1 | 11 | 12 30/1 | 12 | 2400 | | FRY HOLD STATION #30 |
| WATER HEATER | | 300 | 12 | 20/1 | 13 | 14 20/1 | 12 | 700 | | MEAT FREEZER #25 |
| SERVICE CTR/D.T. RECEPT. | | 576 | 12 | 20/1 | 15 | 16 20/1 | 12 | 700 | | REACH-IN FREEZER |
| P.O.S. RECEPTACLES | IG/LO | 800 | 12 | 20/1 | 17 | 18 20/1 | 12 | 420 | | SMOOTHIE STATION SPARE RECEPT. |
| SPARE | | 400 | | 20/1 | 19 | 20 20/2 | 12 | 1300 | HACR | ICE MACHINE #916 |
| COFFEE/TEA BREWER #17 | | 1820 | 12 | 20/2 | 21 | 22 | 12 | 1300 | | |
| | | 1820 | 12 | | 23 | 24 20/1 | 12 | 1344 | | FRYER CONTROLS #31 ** |
| GREASE STORAGE UNIT #31B | | 500 | 12 | 20/1 | 25 | 26 20/1 | 12 | 400 | | ORDER ASSEMBLY CART |
| WATER BOOSTER #10 | | 1428 | 12 | 20/1 | 27 | 28 20/1 | 12 | 1400 | | BLENDER |
| SPARE | | | | 20/1 | 29 | 30 20/2 | 12 | 1650 | | PRODUCT HOLDING UNIT #51 |
| SPARE | | | | 20/1 | 31 | 32 | 12 | 1650 | | |
| SPARE | | | | 20/1 | 33 | 34 20/1 | | | | SPARE |
| SPARE | | | | 20/1 | 35 | 36 20/1 | | | | SPARE |
| SPARE | | | | 20/1 | 37 | 38 | | | | SPACE |
| SPARE | | | | 20/1 | 39 | 40 | | | | SPACE |
| SPARE | | | | 20/1 | 41 | 42 | | | | SPACE |

**TOTAL CONNECTED LOAD:** 45,472 VA **PHASE 'A':** 14206 VA

**TOTAL CONNECTED AMPS:** 131 AMP **PHASE 'B':** 15918 VA

**PHASE 'C':** 15348 VA

**NOTES:**
(TC) = WIRE THROUGH CONTACTOR.
(HACR) = HACR TYPE BREAKER.
(LO) = LOCKED BREAKER
(GFCI) = GROUND FAULT CIRCUIT INTERRUPTER
(IG) = WIRE SEPARATE TO ISOLATED GROUND BUS.

PANEL 'B' NOTES:
1. * PROVIDE ISOLATED GROUND BUS.
2. ** CONTRACTOR SHALL WIRE THESE CIRCUITS THRU MASTER CONTACTOR PANEL. REFERENCE WIRING DIAGRAM SHEET E-5.
3. ⊠ PROVIDE HLO-1 HANDLE LOCK-OFF.

# ELECTRICAL PANEL SCHEDULE

**PANEL: C** **A.I.C. RATING:** 42,000 **SERVICE:** 120/208V, 3P, 4W + GND **FEEDERS:** SEE ONE LINE DIAGRAM

**PANEL TYPE:** SQ-D "I-LINE" OR EQUAL **SIZE:** 200 AMP MCB **MOUNTING:** NEMA-1 RECESSED

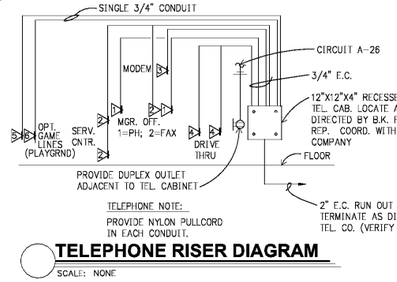
| LOAD DESCRIPTION | NOTE | LOAD VOLT-AMP | WIRE Ø | WIRE N | CB/P | A B C | CB/P | WIRE N | WIRE Ø | LOAD VOLT-AMP | NOTE | LOAD DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ELECTRIC FRYER #31 | | 4667 | #6 | | 50/3 | 1 | 2 50/3 | | #6 | 4667 | | ELECTRIC FRYER #31 |
| ROUTE THRU EMS CONTACTOR | | 4667 | | | | 3 | 4 | | | 4667 | | ROUTE THRU EMS CONTACTOR |
| | | 4667 | | | | 5 | 6 50/3 | | | 4667 | | |
| ELECTRIC FRYER #31 | | 4667 | #6 | | 50/3 | 7 | 8 | | | | | SPARE |
| ROUTE THRU EMS CONTACTOR | | 4667 | | | | 9 | 10 | | | | | |
| | | 4667 | | | | 11 | 12 | | | | | |
| | | 1440 | #8 | | 35/2 | 13 | 14 | | | | | |
| | | 1440 | | | | 15 | 16 | | | | | |
| | | | | | | 17 | 18 | | | | | |
| | | | | | | 19 | 20 | | | | | |

**TOTAL CONNECTED LOAD:** 58884 VA **PHASE 'A':** 20108 VA

**TOTAL CONNECTED AMPS:** 163 AMPS **PHASE 'B':** 20108 VA

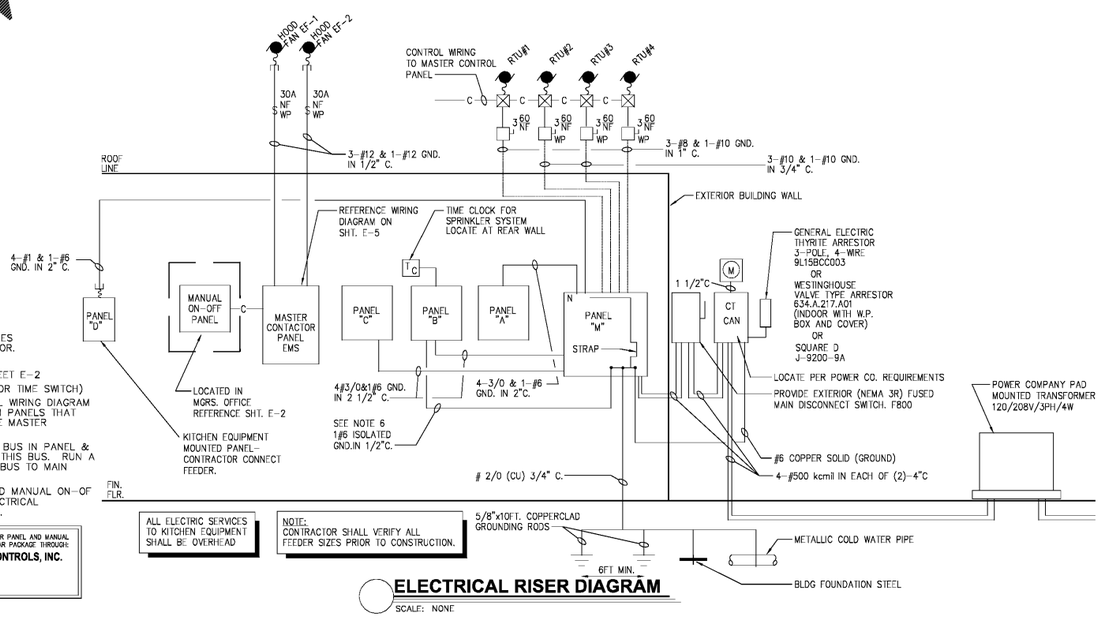
**PHASE 'C':** 18668 VA

**NOTES:**
(TC) = WIRE THROUGH CONTACTOR.
(HACR) = HACR TYPE BREAKER.
(LO) = LOCKED BREAKER
(GFCI) = GROUND FAULT CIRCUIT INTERRUPTER
(IG) = WIRE SEPARATE TO ISOLATED GROUND BUS.




**TELEPHONE RISER DIAGRAM**

SCALE: NONE




**RISER NOTES:**
1. ALL FUSED DISCONNECT SWITCHES TO BE PROVIDED BY CONTRACTOR.
2. REFER TO PANEL NOTES.
3. REFER TO GENERAL NOTES, SHEET E-2
4. "T.C." INDICATES TIME CLOCK (OR TIME SWITCH)
5. SEE MASTER CONTACTOR PANEL WIRING DIAGRAM FOR ADDITIONAL CIRCUITS FROM PANELS THAT ARE CONTROLLED THROUGH THE MASTER CONTACTOR PANEL
6. PROVIDE AN ISOLATED GROUND BUS IN PANEL & RUN CIRCUIT GROUND WIRE TO THIS BUS. RUN A #6 GREEN GROUND FROM THIS BUS TO MAIN SERVICE GROUND POINT.
7. MASTER CONTACTOR PANEL AND MANUAL ON-OF PANEL TO BE INCLUDED IN ELECTRICAL CONTRACTORS SCOPE OF WORK.

ELECTRICAL DISTRIBUTION PANELS, MASTER CONTACTOR PANEL AND MANUAL ON/OFF PANEL MAY BE PURCHASED AS A LOOSE GEAR PACKAGE THROUGH:
**SUNCOAST ENVIRONMENTAL CONTROLS, INC.**
8566 115TH AVENUE NORTH
LARGO, FLORIDA 34643
PHONE (877) 544-6679

**ELECTRICAL RISER DIAGRAM**

SCALE: NONE

# ELECTRICAL PANEL SCHEDULE

**PANEL: D** **SERVICE:** 120/208/240V, 3P, 4W + GND **FEEDERS:** SEE ONE LINE DIAGRAM

**BUS RATING:** 150A M.L.O. **MOUNTING:** FURNISHED BY EQUIPMENT SUPPLIER

| LOAD DESCRIPTION | NOTE | LOAD VOLT-AMP | WIRE | CB/P | A B C | CB/P | WIRE | LOAD VOLT-AMP | NOTE | LOAD DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|
| PHU/MICROWAVE | | 1920 | 12 | 20/2 | 1 | 2 20/2 | 12 | | | PHU/MICROWAVE |
| | | 1920 | 12 | | 3 | 4 | 12 | 1920 | | |
| PHU/MICROWAVE | | 1920 | 12 | 20/2 | 5 | 6 20/2 | 12 | 1920 | | PHU/MICROWAVE |
| | | 1920 | 12 | | 7 | 8 | 12 | 1920 | | |
| CONVEYOR TOASTER | | 1920 | 12 | 20/2 | 9 | 10 | 12 | 1920 | | EGG COOKER |
| | | 1920 | 12 | | 11 | 12 | 12 | 1920 | | |
| VERTICAL TOASTER | | 2880 | 10 | 30/2 | 13 | 14 20/1 | 12 | 1920 | | SPARE |
| | | 2880 | 10 | | 15 | 16 20/1 | 12 | 1920 | | SANDWICH STATION |
| HEATED SURFACES | | 240 | 12 | 20/1 | 17 | 18 30/2 | 10 | 2880 | | VERTICAL TOASTER |
| SPACE | | | | | 19 | 20 | | 2880 | | |
| UTILITY | | 1920 | 12 | 20/1 | 21 | 22 20/1 | 12 | 1920 | | UTILITY |
| SPACE | | | | | 23 | 24 | | | | SPACE |

**TOTAL CONNECTED LOAD:** 40560 VA **PHASE 'A':** 15360 VA

**TOTAL CONNECTED AMPS:** 112 AMPS **PHASE 'B':** 16320 VA

**PHASE 'C':** 10800 VA

**NOTES:**
(TC) = WIRE THROUGH CONTACTOR.
(HACR) = HACR TYPE BREAKER.
(LO) = LOCKED BREAKER
(GFCI) = GROUND FAULT CIRCUIT INTERRUPTER
(IG) = WIRE SEPARATE TO ISOLATED GROUND BUS.

NOTE: ALL RECEPTACLES TO PANEL 'D' TYPE GFCI

Order Plans @ WWW.DILine.com

| NO. | DATE | REVISION |
|---|---|---|
| | 06/21/18 | RELEASED FOR CONSTRUCTION |

DRAWN BY: DBM CHECKED BY: DATE: 06/21/18

PREMIER KINGS, INC.
5529 CAMP HALL ROAD
MONTGOMERY, ALABAMA 36117
PHONE:
LINDSEY@KALABAMA.COM

james m. huckestein architect, AIA
architecture . planning . interior design
2124 Morris Avenue
Birmingham, AL 35203
Phone (205) 322-1751
Fax (205) 323-1778
email jim@JMHuckestein.com
www.JMHuckestein.com

GEORGIA No. 22419 PROFESSIONAL ENGINEER M. ELISABETH HYDE
5/14/18

PROJECT #160218.07
ROC-60 20/20 IMAGE APRIL 2015 DESIGN RELEASE
**BURGER KING RESTAURANT**
5300 U.S. Hwy 278
Covington, GA

ELECTRICAL PANELS AND RISERS

**E-3**