

### PANEL SCHEDULE LEGEND

**LOAD CODES**

A/VAS = HVAC LOAD  
 K/L = KITCHEN LOADS (1, 2 OR 3 CIRCUIT)  
 L/L3 = LIGHTING LOAD  
 M/M3 = MISCELLANEOUS LOAD  
 R = RECEPTACLE LOAD  
 F/F3 = REFRIGERATION LOAD  
 W/W3 = WATER HEATER  
 U/U3 = USER SPECIFIED LOAD

X = EXCLUDED, NON-CONCURRENT LOAD. (HVAC LOADS ARE NON-CONCURRENT; TOTALS BASED ON HIGHER VALUE.)

**DESIGNATION**

IG = ISOLATED GROUND CIRCUIT  
 GFI = GROUND FAULT INTERRUPTER  
 C# = CONTACTOR CONTROLLED (#) INDICATES CONTACTOR NUMBER  
 FC = PHOTOCELL CONTROLLED  
 R# = CONTROLLED BY LCP. (#) INDICATES RELAY NUMBER  
 SF = SUB-FEED BREAKER  
 NB = NEW BREAKER TO MATCH EXISTING IN TYPE, STYLE AND AIC RATING.

MANUFACTURER: SQUARE D PANEL: M LOCATION: SEE PLANS SPECIAL: WITH FEED THRU LEGS

PANEL TYPE: PANEL BOARD RED FROM: DISCONNECT 120/208 VOLTS 3 PHASE 4 WIRE/5010 NEUTRAL AMPERE BUS 400 AMPERE MAIN 400

65K INTERRUPTING CAPACITY (AIC) BREAKER SERIES: RUL: X MOUNTING: RUSH X SURFACE MARK TYPE: EDGE

| No. | KVA | NOTE | WIRE | COND | Description | LD | BRK | A    | B | C | BRK | LD | Description          | WIRE | COND | NOTE   | KVA | No. |    |
|-----|-----|------|------|------|-------------|----|-----|------|---|---|-----|----|----------------------|------|------|--------|-----|-----|----|
| 1   | 6.9 |      |      |      | RTU-1       | A3 |     | 14.9 |   |   | A3  |    | RTU-2                | 3#3  | 1#8  | 1-1/4" | 8.0 | 2   |    |
| 3   | 6.9 |      | 3#6  | 1#10 |             | A3 |     | 14.9 |   |   | A3  |    |                      |      |      |        | 8.0 | 4   |    |
| 5   | 6.9 |      |      |      |             | A3 |     | 14.9 |   |   | A3  |    |                      |      |      |        | 8.0 | 6   |    |
| 7   | 0.6 |      | 2#12 | 1#12 | 1/2"        |    | 20  | 1.0  |   |   | 20  |    | INTERIOR LIGHT BNG   | 2#12 | 1#12 | 1/2"   | 0.4 | 8   |    |
| 9   | 0.4 |      | 2#12 | 1#12 | 1/2"        |    | 20  | 1.2  |   |   | 20  |    | EXTENSION LIGHT BNG  | 2#12 | 1#12 | 1/2"   | C1  | 0.4 | 10 |
| 11  | 1.7 |      | 2#12 | 1#12 | 1/2"        |    | 20  | 2.3  |   |   | 20  |    | EXTENSION WALL PACKS | 2#12 | 1#12 | 1/2"   | C1  | 0.4 | 12 |
| 13  | 0.6 |      |      |      |             | 20 | 0.0 |      |   |   | 20  |    | SPARE                |      |      |        |     | 14  |    |
| 15  | 0.0 |      |      |      |             | 20 | 0.0 |      |   |   | 20  |    | SPARE                |      |      |        |     | 16  |    |
| 17  | 0.0 |      |      |      |             | 20 | 0.0 |      |   |   | 20  |    | SPARE                |      |      |        |     | 18  |    |
| 19  | 0.0 |      |      |      |             | 20 | 0.0 |      |   |   | 20  |    | SPARE                |      |      |        |     | 20  |    |
| 21  | 0.0 |      |      |      |             | 20 | 0.0 |      |   |   | 20  |    | SPARE                |      |      |        |     | 22  |    |
| 23  | 0.0 |      |      |      |             | 20 | 0.0 |      |   |   | 20  |    | SPARE                |      |      |        |     | 24  |    |
| 25  | 0.0 |      |      |      |             | 20 | 0.0 |      |   |   | 20  |    | SPARE                |      |      |        |     | 26  |    |
| 27  | 0.0 |      |      |      |             | 20 | 0.0 |      |   |   | 20  |    | SPARE                |      |      |        |     | 28  |    |
| 29  | 0.0 |      |      |      |             | 20 | 0.0 |      |   |   | 20  |    | SPARE                |      |      |        |     | 30  |    |
| 31  | 0.0 |      |      |      |             | 20 | 0.0 |      |   |   | 20  |    | SPARE                |      |      |        |     | 32  |    |
| 33  | 0.0 |      |      |      |             | 20 | 0.4 |      |   |   | 20  |    | DUCT SMOKE DETECTOR  | 1#12 | 1#12 | 1/2"   | C1  | 0.4 | 34 |
| 35  | 0.4 |      | 2#12 | 1#12 | 1/2"        |    | 20  | 0.4  |   |   | 20  |    | DUCT SMOKE DETECTOR  | 1#12 | 1#12 | 1/2"   | C1  | 0.4 | 36 |
| 37  | 0.0 |      |      |      |             | 30 | 0.4 |      |   |   | 30  |    | LIGHT BNG            | (*)  | (*)  | (*)    | C1  | 0.4 | 38 |
| 39  | 0.0 |      | 4#10 | 1#10 | 3/4"        |    | 30  |      |   |   | 30  |    | SLT LIGHTING         | (*)  | (*)  | (*)    | C2  | 0.4 | 40 |
| 41  | 0.0 |      |      |      |             | 30 |     |      |   |   | 30  |    | SLT LIGHTING         | (*)  | (*)  | (*)    | C2  | 0.4 | 42 |

**LEGEND/NOTES:**  
 2082 = PROVIDE 100 HOLE LOCKING DEVICE FOR THIS BREAKER.  
 1 - 10000 IN. 00000 LOCKING DEVICE FOR THIS BREAKER.  
 2 - LOCKABLE ENCLOSURE.  
 3 - PROVIDE TAGGING LOCKING FOR THIS BREAKER.  
 (\*) = SEE SITE PLAN FOR BREAKER SIZES.

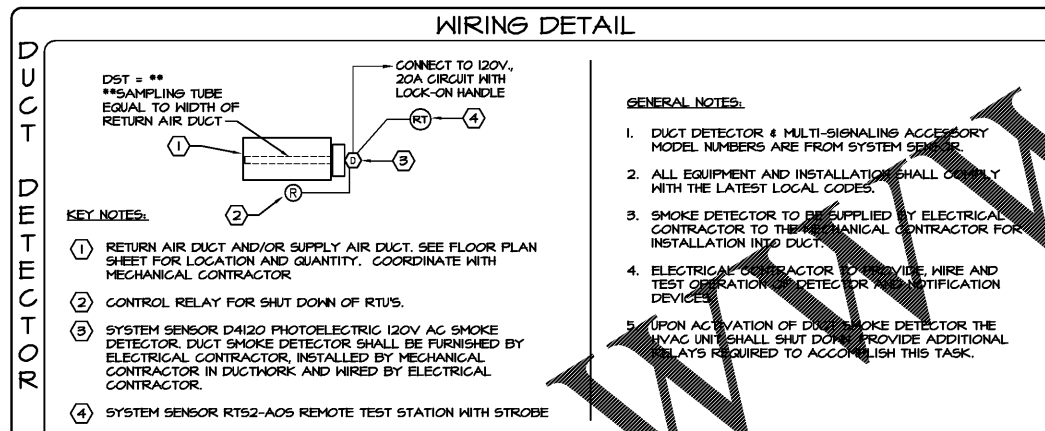
**LOAD TOTALS:** 16.3 16.9 12.8  
 1.0000 IN. 00000 LOCKING DEVICE FOR THIS BREAKER.  
 2. LOCKABLE ENCLOSURE.  
 3. PROVIDE TAGGING LOCKING FOR THIS BREAKER.

**CONNECTION LOAD KVA:** 51.6  
**1.0000 IN. 00000 LOCKING DEVICE FOR THIS BREAKER.**  
**2. LOCKABLE ENCLOSURE.**  
**3. PROVIDE TAGGING LOCKING FOR THIS BREAKER.**

**STO. DEMAND FACTOR (L.D.):** 62.2  
**4. 1.0000 IN. 00000 LOCKING DEVICE FOR THIS BREAKER.**  
**5. KITCHEN DEMAND:** 0.0  
**6. DEMAND AMPERES:** 145.8

**8 SURVED BY XFER KVA:**  
**9 KITCHEN DEMAND:** 0.0  
**10 TOTAL DEMAND KVA:** 52.5

**KITCHEN WIRING PER NEC 2011 TABLE 220.56**



PROVIDE TAG AS FOLLOWS FOR EACH NEW PANEL:

PANEL \_\_\_\_\_ A.I.C. RATING \_\_\_\_\_  
 SERIES  FULLY

VOLTAGE \_\_\_\_\_ AMP \_\_\_\_\_  
 FEEDER OCP \_\_\_\_\_ TYPE-CU  ALU

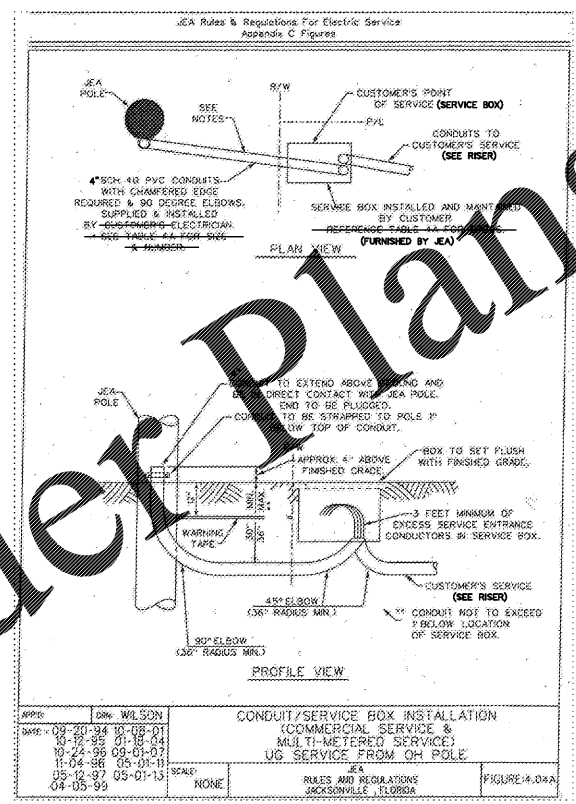
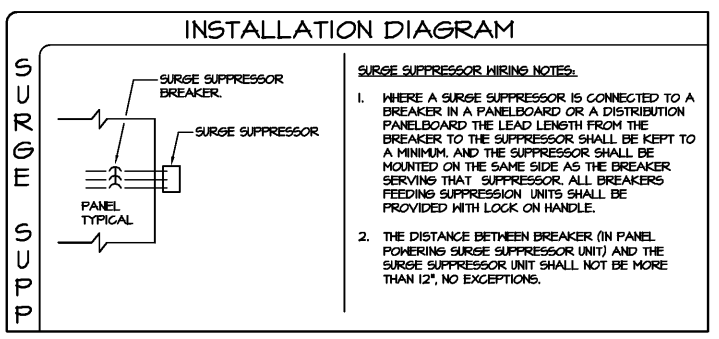
SOURCE PANEL \_\_\_\_\_  
 FEEDER TYPE - UPS  GENERATOR   
 NORMAL  UPS/GENERATOR

**EXAMPLE:**

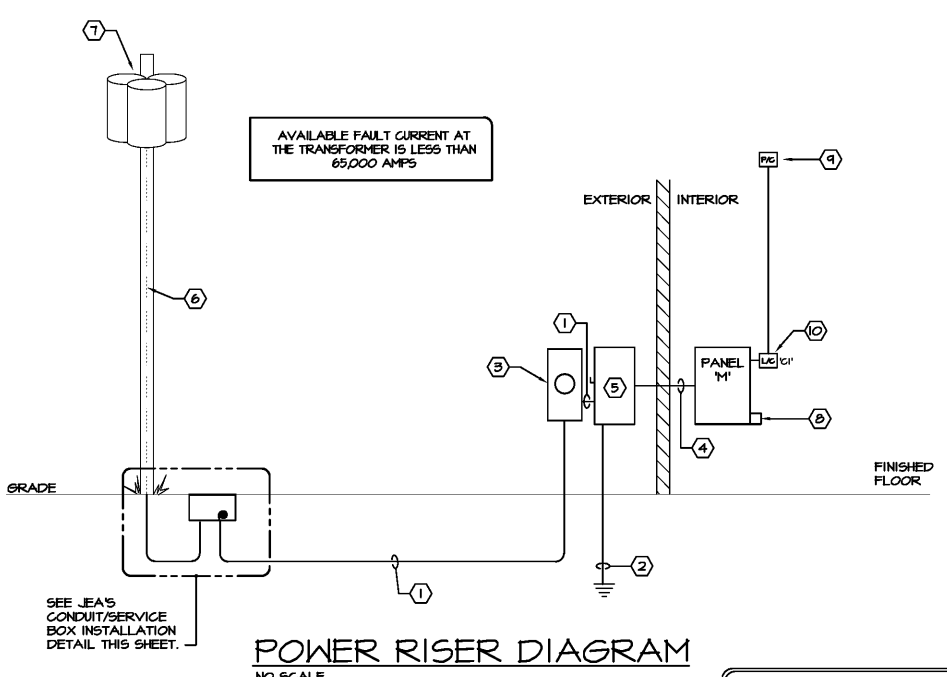
PANEL '1A' A.I.C. RATING 22K  
 SERIES  FULLY

VOLTAGE 120/208, PHASE 3, AMP 225  
 FEEDER OCP 200 WIRE 4#3/0, 1#6 G. TYPE-CU  ALU

SOURCE PANEL 'DE'  
 FEEDER TYPE - UPS  GENERATOR   
 NORMAL  UPS/GENERATOR



- ### NOTES
- (2) SETS OF 3-1/2" CONDUITS WITH 4 - #350 MCM CU. IN EACH.
  - #1/0 CU. GROUND. SEE GROUNDING DETAIL ON THIS SHEET.
  - 400 AMP SELF CONTAINED METER ENCLOSURE, FURNISHED, INSTALLED AND WIRED BY E.C. PER POWER COMPANY SPECIFICATIONS. PROVIDE OPTIONAL KIT ASSEMBLY AS REQUIRED TO TERMINATE FEEDER SHOWN IN RISER DIAGRAM. COORDINATE WITH METER MANUFACTURER PRIOR TO ORDERING.
  - TWO SETS OF 2-1/2" CONDUITS WITH 4 #250MCM CU, 1 #1 E.G. IN EACH.
  - 3-PH, 4-W, SERVICE ENTRANCE RATED, NEMA 3R, 400A, FUSED DISCONNECT, FUSED AT 400 AMPS, HEAVY DUTY, SWITCH WITH SOLID NEUTRAL, CLASS 'J' FUSES. DISCONNECT SHALL BE LOCKABLE IN THE ON OR OFF POSITIONS.
  - SERVICE CONDUCTORS DOWN THE POLE TO SERVICE BOX BY UTILITY COMPANY.
  - 120/208V, 3-PHASE, 4-WIRE POLE MOUNTED TRANSFORMERS.
  - LIGHTNING SURGE SUPPRESSOR, EQUAL TO SURGE SUPPRESSION INC. STM-30D-3Y1-P (120/208V, 3-PHASE, 5 WIRE) WITH FLUSH MOUNTED PLATE. SEE WIRING DETAIL THIS SHEET.
  - PHOTOCELL (120V) MOUNTED ON ROOF FACING NORTH.
  - ELECTRICALLY HELD 4 POLE LIGHTING CONTACTOR 'C1' TO CONTROL EXTERIOR LIGHTING. EQUAL TO SQUARE 'D' #LF-40-V02.



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| no. | date | revision descriptions |
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**STARBUCKS**  
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12.13.17 date  
 17047 comm. no.

POWER RISER DIAGRAM

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