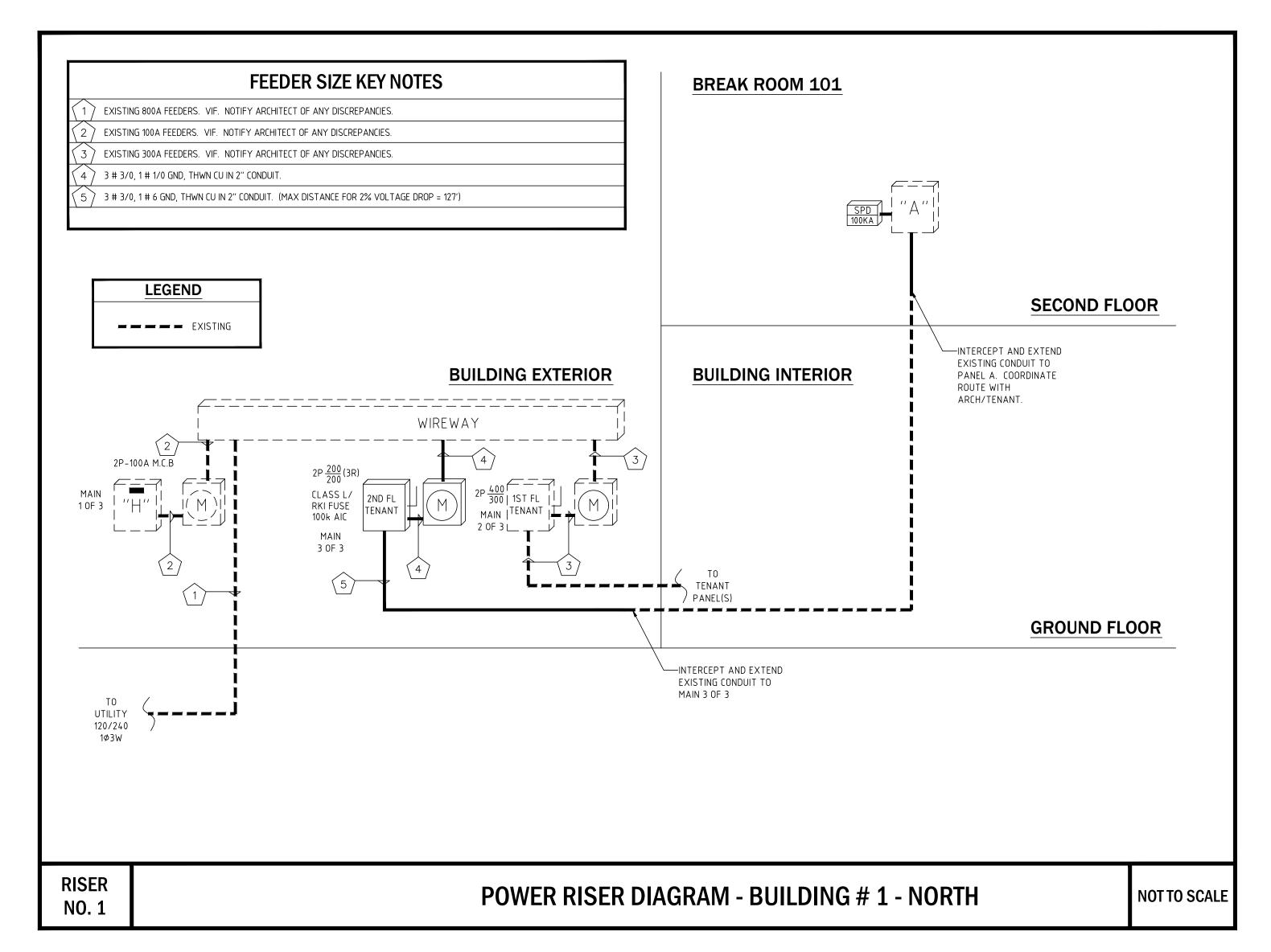
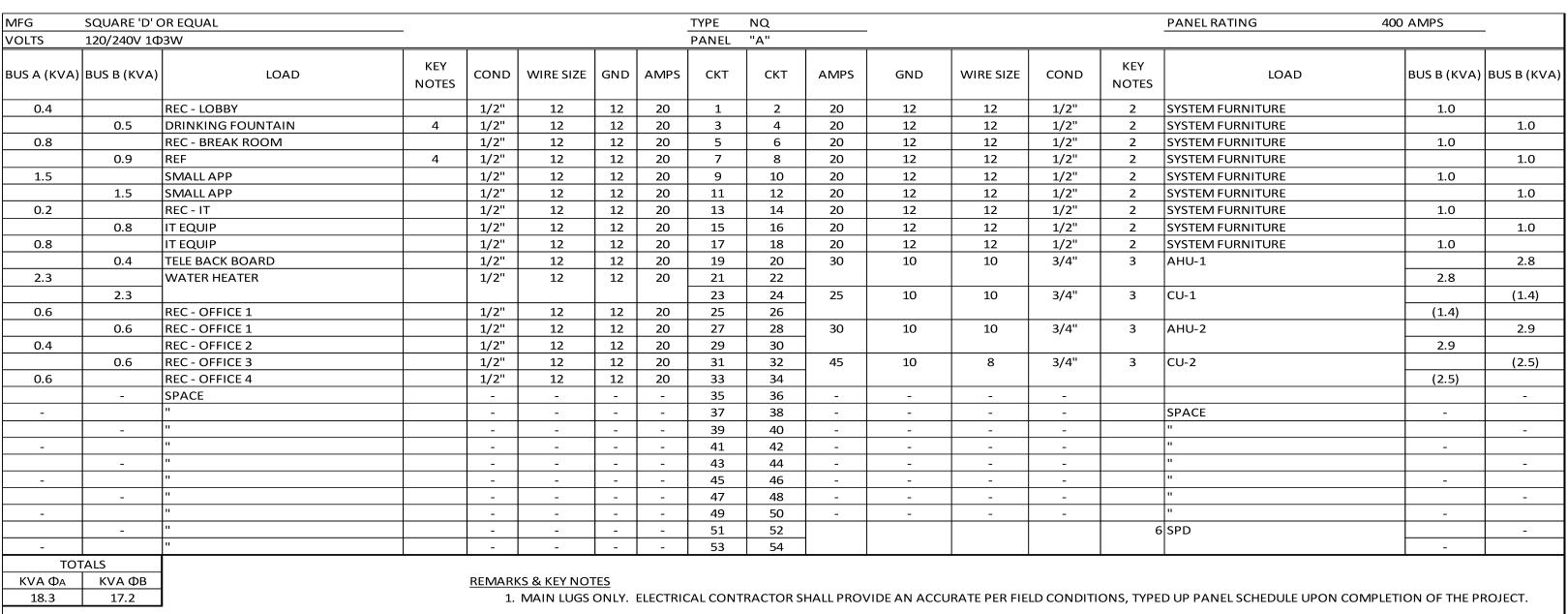


SHORT CIRCUIT FAULT CURRENT CALCULATION CALCULATION OF FAULT CURRENT FAULT SCA SOURCE = TA PRIMARY INFINITE SCA AVAILABLE = INFINITE LENGTH UNITS = FEET MOTOR LOAD = NONE MOTOR SCA = NONE MOTOR SCA TREATMENT = MOTOR SCA NOT INCLUDED SYSTEM VOLTAGE = 240 SYSTEM PHASE = 1 PHASE TRANSFORMERS NAME PH SIZE PRI.V SEC.V %Z SCA,L-L SCA,L-N 1-PH 167 240 1.4 49.703 74.555 NAME COND CABLESIZE QTY FEET SCA,L-L SCA,L-N S/F 1 PVC, ABS 1/C,CU500 2 50 35,816 M/F 4/5 1/C,CU 3/0 1 70 13,636 8,344





10.0 AT 100% AT 50% 1.6 AT 125% 0.0 AT 125% 7.3 AT 125% 5.6 0.0 AT 65% AT 100% 12.0

TOTAL KVA 36.4

TOTAL AMPS 151.8

LOAD CALCULATIONS PER NEC 220

LARGEST MOTOR

3.2

LIGHTING 0.0

WATER HEATER 4.5

KITCHEN EQUIPMENT 0.0

1ST 10KVA OF RECEPS.

REMAINDER OF RECEPS.

REMAINDER OF LOADS

2. VERIFY ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PRIOR TO CONSTRUCTION; ALL EQUIPMENT'S ELECTRICAL REQUIREMENTS SHALL BE CONFIRMED WITH MFG SPECS.

VERIFY VOLTAGE, AMPERAGE, AND BREAKER SIZES.

3. NON-CONCURRENT LOAD. PROVIDE NEW "HACR" RATED CIRCUIT BREAKER.

4. PROVIDE "GFCI" RATED CIRCUIT BREAKER.

5. CONTROLLED VIA ASTRONOMICAL TIME CLOCK. 6. INSTALL PER MANUFACTURER SPECIFICATIONS.

> MIN A.I.C. 22,000 AMPS MOUNT RECESSED

A NEW TENANT MAIN HAS BEEN ADDED. CONTRACTOR TO RE-LABEL MAINS AS INDICATED. ALL UNIT CIRCUIT BREAKER/MAINS SHALL BE LABELED AS INDICATED.

**COORDINATE NEW ELECTRICAL SERVICE WITH UTILITY** SERVICE REPRESENTATIVE. PRIOR TO BID, ELECTRICAL CONTRACTOR SHALL VERIFY WITH UTILITY COMPANY THAT THE FAULT CURRENT AVAILABLE DOES NOT EXCEED THE FAULT **CURRENT RATING OF THE SPECIFIED SWITCHGEAR.** NOTIFY ARCHITECT/ ENGINEER IF CHANGES TO PLANS ARE REQUIRED.

THE GC SHALL COORDINATE EXACT PLACEMENT OF NEW ELECTRICAL SERVICE EQUIPMENT WITH EXISTING LANDSCAPING TO MAINTAIN REQUIRED CLEARANCES. FIELD VERIFY.

PANEL FEEDER NOTE THE ELECTRICAL CONTRACTOR SHALL VERIFY THE LENGTH OF ALL 120V RUNS IN FIELD AND SHALL MAINTAIN LESS THAN 3%

VOLTAGE DROP. THE WIRE GUAGE MAY

NEED TO INCREASE TO #10 AWG. FOR A

20A BREAKER.

## **ELECTRICAL SERVICE & PANEL NOTES**

1. ALL ELECTRICAL SERVICE EQUIPMENT SHALL MATCH EXISTING A.I.C. RATING. ALL EQUIPMENT LOCATED ON EXTERIOR OF BUILDING SHALL BE NEMA-3R RATED.

2. ALL ELECTRICAL EQUIPMENT AND WIRE SHALL BE RATED @ 75°C CONTINUOUS DUTY.

3. PRIOR TO CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL: a) VERIFY ALL EXISTING CONDITIONS IN FIELD

PROGRESS OR CHECK SETS, BY THEIR NATURE, MAY BE INCOMPLETE AND ARE NOT TO BE USED FOR BIDDING OR

CONSTRUCTION. CONTRACTOR RECOGNIZES HIS SOLE RESPONSIBILITY TO INCLUDE ALL CONTINGENCIES FOR

DESIGN AND INSTALLATION TO MEET THE PROJECT REQUIREMENTS IN ANY PRICING EXERCISE.

RECORD. ALL CHANGES SHALL BE SUBMITTED FOR REVIEW PRIOR TO INSTALLATION.

NOT FOR BID UNTIL PERMIT HAS BEEN ISSUED.

b) COORDINATE THE ELECTRICAL SERVICE WITH FP&L REPRESENTATIVE c) NOTIFY THE ENGINEER OF ANY CHANGES REQUIRED TO COMPLETE NEW CONSTRUCTION.

4. ALL ELECTRICAL EQUIPMENT SHALL BE FIELD MARKED TO WARN OF POTENTIAL ELECTRICAL ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE BEFORE ANY EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.

5. EACH DISCONNECT SHALL BE LEGIBLY MARKED TO INDICATE THE UNIT IT IS FEEDING. THE MARKING SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.



700 WEST HILLSBORO BLVD. - BLDG. #1, SUITE 204 PRIOR TO SUBMITTING THE BID, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DEERFIELD BEACH, FLORIDA 33441 INFORM THE ARCHITECT AND THE ENGINEER OF ANY DISCREPANCY BETWEEN THESE DOCUMENTS AND TEL: (561) 391-9292 FAX: (561) 391-9898 THE EXISTING CONDITIONS AND SHALL INCLUDE IN THE BID TO CORRECT THE SAME AS DIRECTED. CERTIFICATE OF AUTHORIZATION NO. 28107 . URSULA IAFRATE, P.E. LICENSE #73122 THE ENGINEER AND THE ARCHITECT, ARE NOT RESPONSIBLE FOR ANY ADDITIONAL COSTS RESULTING STEPHEN F. ROLLIN, P.E. LICENSE #36428 FROM VERIFIABLE EXISTING CONDITIONS DISCOVERED AFTER CONTRACT HAS BEEN AWARDED. . DONALD H. AUSTIN, JR., PE LICENSE #60651 NO CHANGES SHALL BE MADE TO THESE PLANS WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF JASON BARBER, PE LICENSE #73050 E-MAIL: INFO@FAECONSULTING.COM PM: AN P/N 16014 DESIGNED BY: KW/AS

CHECK SET: 02/22/16

LEVEL 2 ALTERATION TENANT BUILD-OUT FOR: SF PROCESSING 1315 N. FEDERAL HWY. 2ND.FLOOR BOYNTON BEACH, FL. 33435

JSR

approve all shop drawings and dimensions before having drawings reviewed and accepted by the architect prior to construction.

by the architect.

All designs and concepts are

the property of JSR Design Group

Inc., and may not be modified or

copied without written permission

dimensions (Not scaled) & notify

architect of any discrepancies or

omissions. Construction shall not proceed until said discrepancies

or omissions have been resolved

3. Contractor to verify and

2. Contractor to verify all written