

FEEDER AND CUSTOMER-OWNED SERVICE CONDUCTORS ARE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2 PERCENT AT DESIGN LOAD.

### C405.7.3.2 BRANCH CIRCUITS BRANCH CIRCUIT CONDUCTORS ARE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3 PERCENT AT DESIGN LOAD.

C405.1.3.I <u>FEEDERS AND CUSTOMER-OWNED SERVICE CONDUCTORS</u>

C405.7.4.1 <u>DRAWINGS</u> CONSTRUCTION DOCUMENTS HEREBY REQUIRE THAT WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING:

- . A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION
- FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL

CONSTRUCTION DOCUMENTS HEREBY REQUIRE THAT AN OPERATING MANUAL AND MAINTENANCE MANUAL BE PROVIDED TO THE BUILDING OWNER. THE MANUALS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:

- SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
- . OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
- 3. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.

# SECTION C408 SYSTEM COMMISSIONING

# C408.3.1 FUNCTIONAL TESTING:

TESTING SHALL ENSURE THAT CONTROLS HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.

THE MANUFACTURER OF THE INSTALLED LIGHTING CONTROL SYSTEM SHALL PERFORM THE FUNCTIONAL TESTING, WHERE OCCUPANT SENSORS, TIME SWITCHES, PROGRAMMABLE SCHEDULE CONTROLS, PHOTOSENSORS OR DAY TIME LIGHTING CONTROLS ARE INSTALLED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:

- CONFORMATION THAT THE PLACEMENT, SENSITIVITY AND TIMEOUT ADJUSTMENTS FOR OCCUPANT SENSORS YIELD ACCEPTABLE PERFORMANCE.
- . CONFIRMATION THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.
- 6. CONFIRMATION THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTOSENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON THE AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS SPECIFIED.

# RETAIL BUILDING - ELECTRIC SERVICE ESTIMATED LOAD CALCULATION

# HOUSE PANEL 'HP'

ESTIMATED APPARENT POWER: ..... II.8 KVA TOTAL CURRENT AT 120/208 V., 3-PH. . . . . . . . 32.9 AMPS SERVICE SIZE: 150 AMPS AT 120/208 V., 3-PH., 4-W.

# <u>TENANT I</u> AREA: 1,240 SF

BUSINESS TYPE: TBD POWER ALLOCATION: 75.0 VA/SF TOTAL APPARENT POWER: ..... 75.0 KVA TOTAL CURRENT AT 120/208 V., 3-PH. . . . . . . 207.0 AMPS SERVICE SIZE: 400 AMPS AT 120/208 V., 3-PH., 4-W.

### <u>TENANT 2</u> BUSINESS TYPE: TBD

AREA: 1,213 SF POWER ALLOCATION: TOTAL APPARENT POWER: ..... 60.0 KVA TOTAL CURRENT AT 120/208 V., 3-PH. . . . . . . 168.0 AMPS SERVICE SIZE: 200 AMPS AT 120/208 V., 3-PH., 4-W.

#### TENANT 3 BUSINESS TYPE: TBD AREA: 1,240 SF POWER ALLOCATION:

TOTAL APPARENT POWER: ..... 60.0 KVA TOTAL CURRENT AT 120/208 V., 3-PH. . . . . . . 168.0 AMPS SERVICE SIZE: 200 AMPS AT 120/208 V., 3-PH., 4-W.

### TENANT 4 BUSINESS TYPE: TBD AREA: 1,240 SF POWER ALLOCATION:

TOTAL APPARENT POWER: ..... 60.0 KVA TOTAL CURRENT AT 120/208 V., 3-PH. . . . . . . 168.0 AMPS SERVICE SIZE: 200 AMPS AT 120/208 V., 3-PH., 4-W.

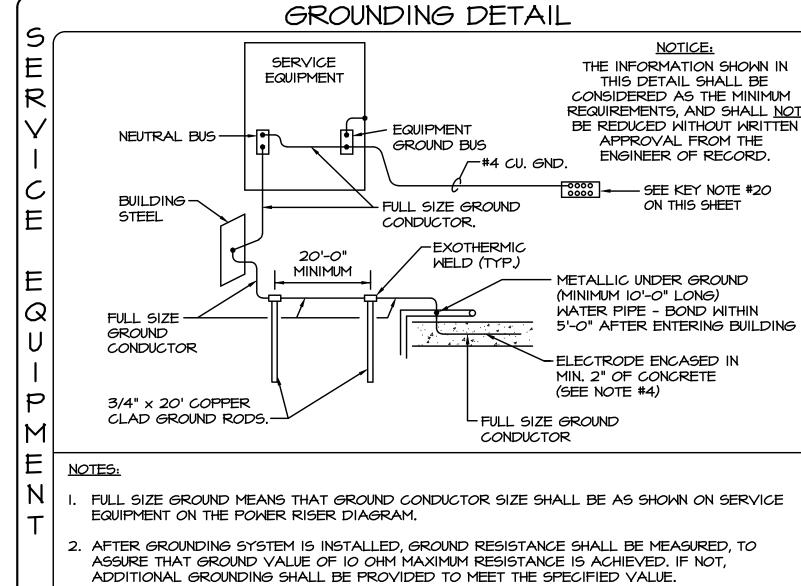
#### TENANT 5 BUSINESS TYPE: TBD AREA: 1,213 SF POWER ALLOCATION: TOTAL APPARENT POWER: ..... 60.0 KVA

TOTAL CURRENT AT 120/208 V., 3-PH. . . . . . . 168.0 AMPS SERVICE SIZE: 200 AMPS AT 120/208 V., 3-PH., 4-W.

### <u>TENANT 6</u> BUSINESS TYPE: TBD AREA: 1,246 SF POWER ALLOCATION:

TOTAL APPARENT POWER: ..... 75.0 KVA TOTAL CURRENT AT 120/208 V., 3-PH. . . . . . . 207.0 AMPS SERVICE SIZE: 400 AMPS AT 120/208 V., 3-PH., 4-W.

GRAND TOTAL APPARENT POWER: ..... 402.0 KVA TOTAL CURRENT AT 120/208 V., 3-PH. . . . . . . . III6.0 AMPS SERVICE SIZE: 1600 AMPS AT 120/208 V., 3-PH., 4-W.

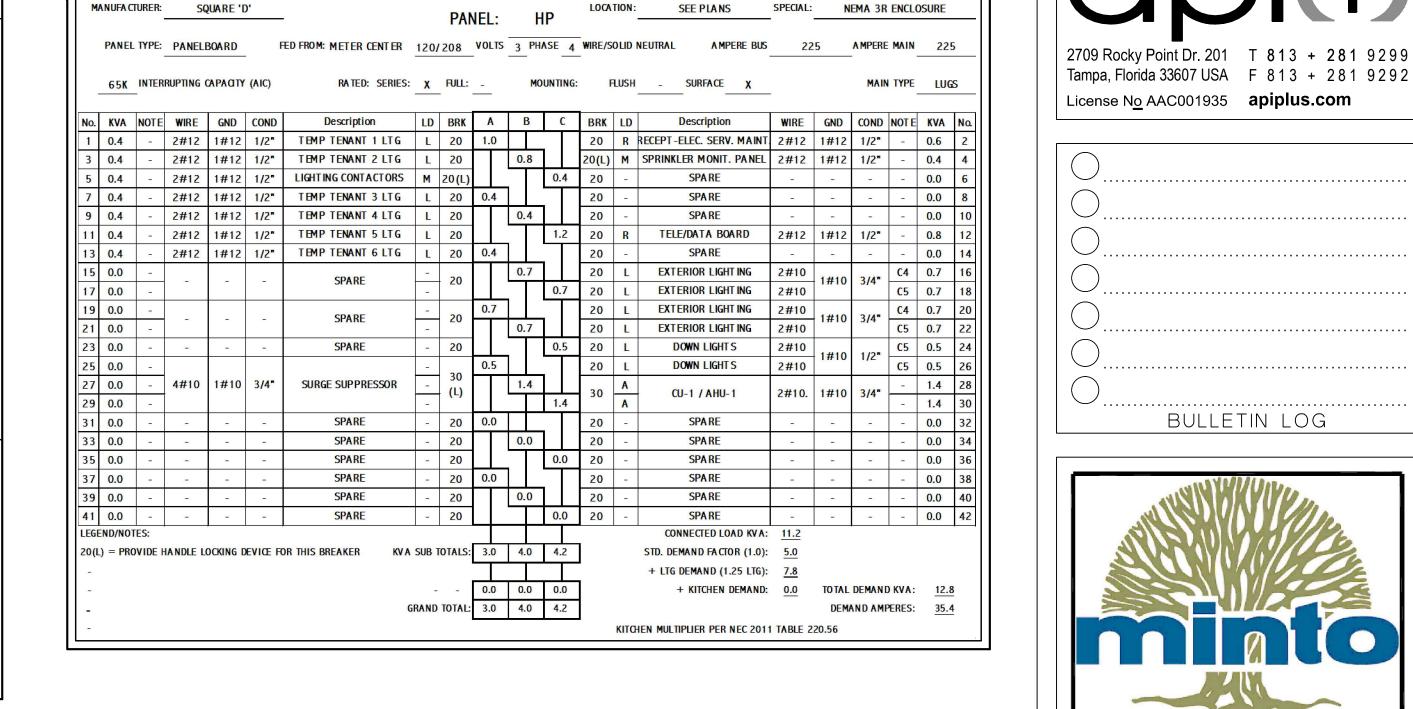


3. ALL CONNECTIONS TO GROUND RODS SHALL BE EXOTHERMIC WELD CONNECTIONS. . GROUND CONDUCTOR SHALL BE LOCATED WITHIN OR NEAR BOTTOM OF CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH, AND SHALL CONSIST OF AT LEAST 20 FEET OF ONE OR MORE STEEL REINFORCING BARS OR RODS OF NOT LESS THAN 1/2 INCH

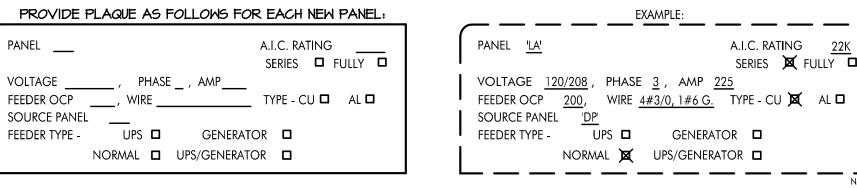
> CONTACTORS CONTROL VIA LIGHTING CONTROL PANEL. VERIFY SEQUENCE OF OPERATION WITH OWNER PRIOR TO

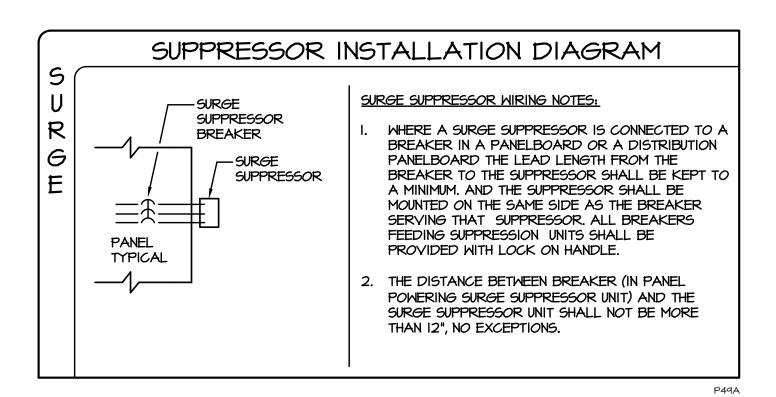
DIAMETER, OR OF AT LEAST 20 FEET OF BARE COPPER CONDUCTOR.

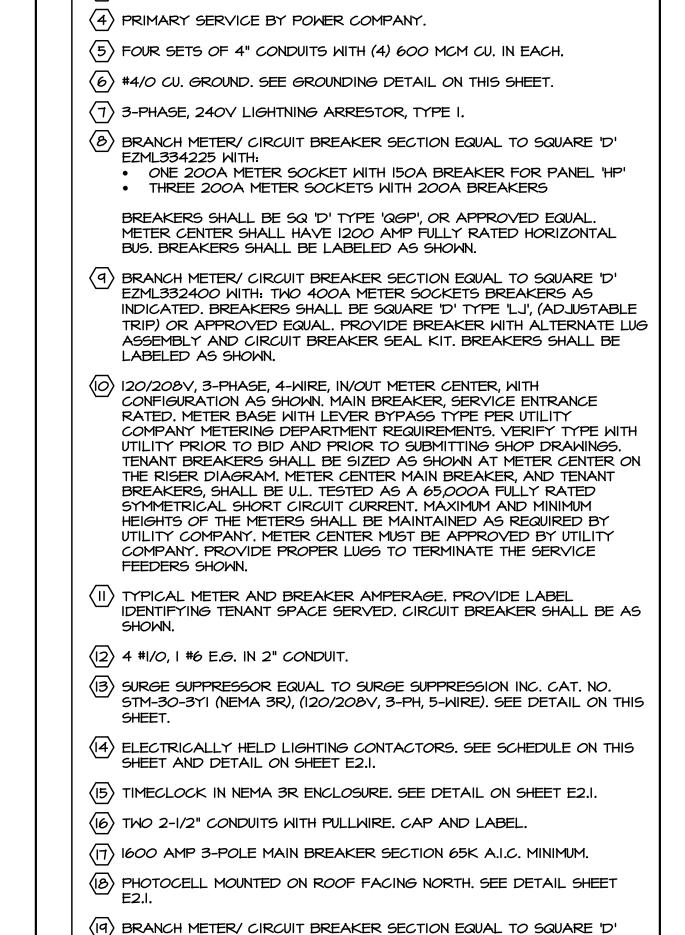
NOTES:



# CONTACTOR SCHEDULE PANEL \_\_\_\_ VOLTAGE \_\_\_\_\_, PHASE \_ , AMP\_\_\_\_ CONTACTOR 'C4' (EXTERIOR BUILDING ARCHITECTURAL LIGHTING). CONTROLLED VIA PHOTOCELL 'ON' - TIMECLOCK 'OFF'. SOURCE PANEL ONE 8-POLE ELECTRICALLY HELD LIGHTING CONTACTOR WITH 120Y COIL, NEMA 3R. CONTACTOR SHALL BE EQUAL TO SQUARE 'D' LH80-VO2. LABEL CONTACTORS AS INDICATED ABOVE.







FOUR 200A METER SOCKETS WITH 200A BREAKERS

BUS. BREAKERS SHALL BE LABELED AS SHOWN.

ARTICLE 250.94. EXTERIOR RATED.

BREAKERS SHALL BE SQ 'D' TYPE 'QGP', OR APPROVED EQUAL.

100 INTER SYSTEM BONDING TERMINATION WITH A MINIMUM OF THREE

(21) (2) 4" CONDUITS EMPTY WITH PULL ROPE. LABEL ACCORDINGLY.

METER CENTER SHALL HAVE 1200 AMP FULLY RATED HORIZONTAL

TERMINATION REQUIRED, IN COMPLIANCE WITH N.E.C. 2011 EDITION

ALL CONDUCTORS SHALL BE COPPER UNLESS OTHERWISE NOTED.

EZML334225 WITH:

NOTES

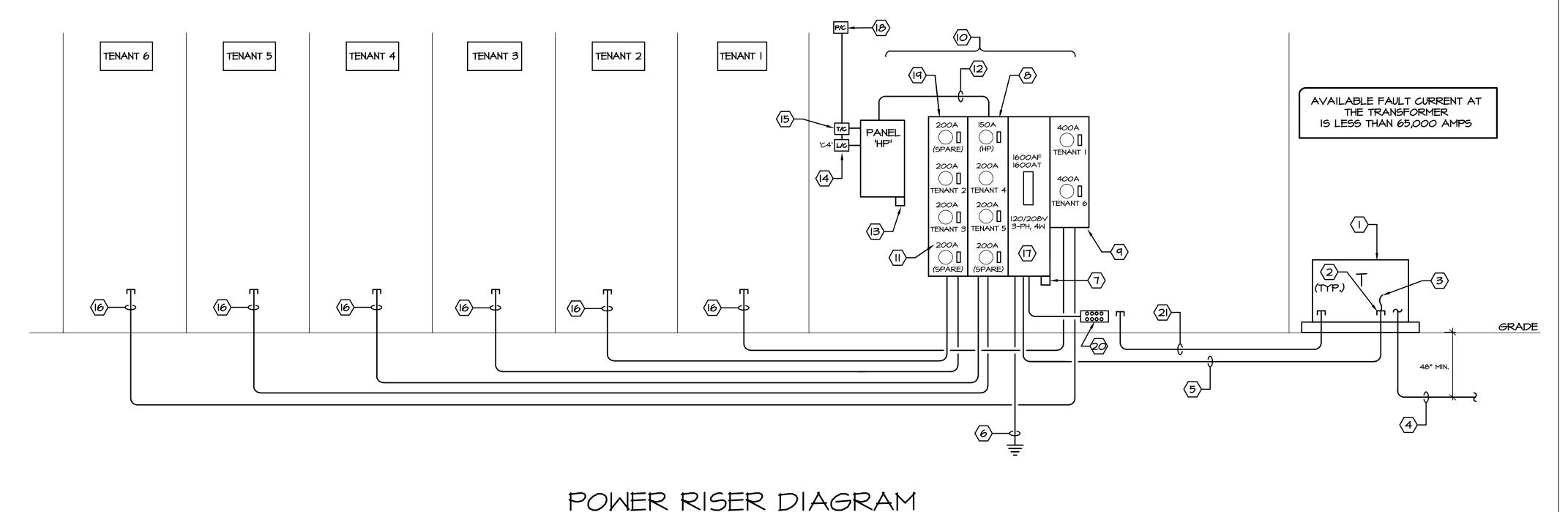
(2) COORDINATE EXACT LOCATION AND ARRANGEMENT OF CONDUIT

(3) LEAVE 6'-0" OF SLACK CONDUCTOR FOR USE BY POWER COMPANY.

4W OUTPUT (FIELD VERIFY LOCATION).

STUB-UPS WITH UTILITY COMPANY.

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m I}$  angle PAD MOUNTED TRANSFORMER, BY UTILITY COMPANY, I20/208V., 3-PH,



PROVIDE LABELS FOR EACH BREAKER IDENTIFYING TENANT.

CHEHAYEB & ASSOCIATES, INC. CONSULTING PROFESSIONAL ENGINEERS 3702 AZEELE ST. (813) 876-1415 TAMPA, FL 33609 (fax) 876-0913 LIC. #49521 SOUHEIL CHEHAYEB CERT. #7340 16-115 (R)

WESTLAKE AUXILIA SALES CENTER CITY OF WESTLAKE PALM BEACH COUNTY, FLORIDA	
ISSUE DATE: - 09-30-16 ISSUED FOR: PERMIT - BUILDING SHELL O  © AS DATED ARCHITECTURE PLUS INTERNATION	

BULLETIN LOG

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	REVISION LOG
	STATE REGISTRATION
	FL #AAC001935 NC #8581
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WESTLAKE	<b>AUXILIARY</b>
SALES CEN	TER

PROJECT NAME

Juan F. Romero AlA. License No. AR0007793

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS.

POWER RISER DIAGRAM, AND PANEL SCHEDULES SHEET NAME

PROJECT NUMBER: 2016.082 DRAWN BY: R.R. CHECKED BY: S.C. SCALE: AS NOTED

SHEET NUMBER