

N = NONCOINCIDENTAL

VERIFY ALL LOADS

E = MISC.EQUIPMENT

M = LARGEST MOTOR

Additional Receptacles

Total Misc Equipment

LARGEST MOTOR

Total Connected: 100580 VA

Total HVAC / MOTOR

Total NONCOINDENTAL

0.50 ----- > 10 KVA 14840

Diversified: 100965 VA

Diversified Design Load: 280 Amps x 1.25 = 350 Amp Panel

1.00 -----

1.00 -----

0.25 -----

* NON-CONCURRENT Strip Heat

Overall Demand Factor: 1.00

N = NONCOINCIDENTAL

VERIFY ALL LOADS

E = MISC.EQUIPMENT

M = LARGEST MOTOR

Additional Receptacles

Total Misc Equipment

Total HVAC / MOTOR

LARGEST MOTOR

Total Connected: 28660 VA

Total NONCOINDENTAL

0.50 ----- > 10 KVA

1.00 -----

1.00 -----

0.25 -----

13620 x

0 x

745

13620

Diversified Design Load: 80 Amps x 1.25 = 100 Amp Panel

Diversified: 28802.5 VA

* NON-CONCURRENT Strip Heat

Overall Demand Factor: 1.00

VERIFY WITH OWNER NUMBER AND LOCATIONS (T) TELEVISION OUTLET 84" A.F.F., RUN CABLE RG-59 TO TELEPHONE BOARD. PROVIDE OUTLET AND CABLE TO MATCH, STUB 3/4" ABOVE CEILING. PROVIDE BLOCKING IN WALL FOR SUPPORT OF FUTURE BRACKET.

PROVIDE INSULATED NYLON BUSHING ON END OF CONDUIT FOR PROTECTION OF WIRE. PROVIDE ROMEX WIRING, UNLESS NOT ACCEPTED BY LOCAL AUTHORITY, THEN PROVIDE EMT.

IN ANY EVENT, ALL WORK AND MATERIAL SHALL COMPLY WITH NEC ELECTRICAL CONTRACTOR MAY MODIFY ELECTRICAL PROVIDED THAT ALL WORK

D DATA - FIELD VERIFY NUMBER & LOCATION

PROVIDE LIGHTING CONTROLS PER THE FLORIDA ENERGY CODE - SECTION C405 ELECTRICAL POWER AND LIGHTING SYSTEMS

250-50(A)(2)

Lighting controls shall comply with the FBC Energy Conservation section C405.2. Provide manual and automatic controls for all spaces. Automatic controls will not be allowed in areas with electrical panels.

Install GFCI protection for 125V 15A and 20A receptacles located within 6' of sinks. 210.8(B)(5) ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE CODE APPROVED COMPONENTS AND

EQUIPMENT, AND TO VERIFY THAT ALL CONNECTED LOAD AND ADJUST SERVICE AS REQUIRED. ALL WORK SHALL BE DONE PER THE FLORIDA BUILDING CODE, NEC AND ANY GOVERNING AUTHORITIES.

600.5 Branch Circuits. (A) Required Branch Circuit. Each commercial building and each commercial occupancy accessible to pedestrians shall be provided with at least one outlet in an accessible location at each entrance to each tenant space for sign or

outline lighting system use. The outlet(s) shall be supplied by a branch circuit rated at least 20 amperes that supplies no other load. Service hallways or corridors shall not be considered accessible to pedestrians.

EXIT-EMERGENCY LIGHTS CONNECTED TO LIGHT CKT IDENTIFIED FOR GENERAL LIGHTS IN CORRESPONDING LIGHT SPACE

DENERAL OUTLET

SWITCHED OUTLET

BRACKET LIGHT

3 OR 4 BULB

2' X 2' OR 2' X 4' ELECTRIC PANEL

EXIT EXIT LIGHTS

EMERGENCY LIGHTS

PROVIDE A FUNCTIONAL TEST OF THE LIGHTING CONTROL SYSTEM PER FBC ENERGY CONSERVATION SECTION 408.3. Provide Lights and Emergency Lights at Exterior Doors per

COMPUTER D NETWORK

\$ \$^{3W} 3 WAY

CONNECTOR

FBC Section 1006. Provide daylight zone control per C405.2.2.3. Provide sign circuits per 600.5(A).

ELECTRICAL LEGEND

☐ DISCONNECT LIGHT SWITCH

SUPPORT STRUCTURE WIRE HANGERS AND GRID PER MFG SPECS .IGHT FIXTURES

ACOUSTICAL CEILING TILES

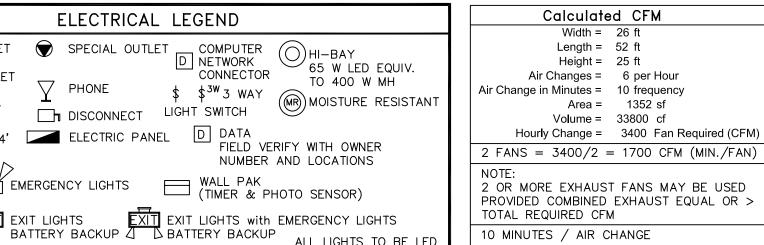
SECTION 808 ACOUSTICAL CEILING SYSTEMS 808.1 Acoustical ceiling systems. The quality, design, fabrication and erection of metal suspension systems for acoustical tile and lay—in panel ceilings in buildings or structures shall conform to generally accepted engineering practice, the provisions of this chapter and other applicable requirements of this code.

ACOUSTICAL CEILING / LIGHTS

808.1.1 Materials and installation. Acoustical materials complying with the interior finish requirements of Section 803 shall be installed in accordance with the manufacturer's recommendations and applicable provisions for applying interior finish.

808.1.1.1 Suspended acoustical ceilings. Suspended acoustical ceiling systems shall be installed in accordance with the provisions of ASTM C635 and ASTM C636. 808.1.1.2 Fire-resistance-rated construction.

Acoustical ceiling systems that are part of fire-resistance-rated construction shall be installed in the same manner used in the assembly tested and shall comply with the provisions of Chapter 7.



NEC 110-9 / 110-10

NEC 240-21

LOCATE OVERCURRENT DEVICES PER

PROVIDED COMBINED EXHAUST EQUAL OR > TOTAL REQUIRED CFM 10 MINUTES / AIR CHANGE ADJUST IF REQUIRED

Area = 1352 sf

MODIFICATION OF EXHAUST SYSTEM IS PERMITTED TO BE MODIFIED PROVIDED THE MODIFICATION IS IN COMPLIANCE WITH THE FBC

PROVIDE OVERCURRENT PROTECTION PER NEC 230-90, 230-94, 430-72 PROVIDE INTERRUPTING CAPACITY PER

FIELD VERIFY LOCATION OF METER AND SERVICE CONNECTION. ALL ELECTRICAL TO BE VERIFIED AND IF ANY CONDITIONS FOUND THAT NEED TO BE MODIFIED, THEN CONTACT THE ENGINEER. VERIFY LENGTH OF WIRE RUNS AND INCREASE SIZE OF WIRE AS REQUIRED PER NEC IF THE VOLTAGE DROP EXCEEDS THE LIMITS

AS SET BY NEC. PROVIDE DISCONNECTS AND ALL INTERFACING PER NEC. ALL WORK SHALL BE IN COMPLIANCE WITH NEC. PROVIDE SHUNT TRIP IF REQUIRED BY LOCAL AUTHORITY

CAPACITY SYMMETRICAL AMPS PER UTILITY COMPANY PROVIDE DISCONNECTS AND ALL INTERFACING PER NEC.

ALL WORK SHALL BE IN COMPLIANCE WITH NEC. MIN. SHORT CKT CURRENT INTERRUPTING

MIN. SHORT CKT CURRENT INTERRUPTING

CAPACITY SYMMETRICAL AMPS PER UTILITY COMPANY MOTOR MANUFACTURER TO SUPPLY FAULT CURRENT ASYMMETRY AND SHALL BE INCLUDED IN TOTAL INTERRUPTING CURRENT CAPACITY ****** ELECTRICAL ************

OCPD = OverCurrent Protection Device GUTTER SIZING: Per TABLE 310-16 thru 310-19 ELECTRIC CALCS: Page 1-10 GENERAL LIGHTING: Per 220-3(b); Table 220-3(b); 220-10(b) SHOW WINDOW LIGHTING: Per 220-12; 220-10(b) TRACK LIGHTING: 410-102 SIGN LIGHTING: Per 220-10(b): 600-5(b)(3) RECEPTACLES (CONTINUOUS LOAD): Per 220-3(c)(7); 220-10(b) RECEPTACLES (NON-CONTINUOUS LOAD): Per 220-3(c)(7); 220-10(b)

(DEMAND FACTORS): Per 220-3(c)7; 220-13

GENERAL CONDUIT NOTE: ALL CONDUIT TO BE RIGID METALIC OR PVC WITH BONDED GROUNDING PER NEC

ELECTRICAL CONTRACTOR TO VERIFY WITH THE OWNER ALL LIGHTING AND RECEPTACLES IN THE WAREHOUSE. IF REQUIRED, MODIFY OR INCREASE THE ELECTRICAL SERVICE. NOTE; ALL RECEPT. IN WAREHOUSE TO BE GFI

ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE CODE APPROVED COMPONENTS AND EQUIPMENT, AND TO VERIFY THAT ALL CONNECTED LOADS AND

ADJUST SERVICE AS REQUIRED. ALL WORK SHALL BE DONE PER THE FLORIDA BUILDING CODE, NEC AND ANY GOVERNING AUTHORITIES.

SERVICE DISCONNECT(S), BOND ALL DISCONNECTING DEVICES TOGETHER

-WITH FULL SIZE CABLE IF MORE THAN ONE DEVICE IS UTILIZED ---BOND GROUND SYSTEM WITH GROUNDING CONDUCTOR (NEUTRAL) IN ENCLOSURE IN ACCORDANCE WITH 250-28

> PROVIDE FULL SIZE CABLE IN ACCORDANCE WITH TABLE 250-66 TO - BUILDING STRUCTURAL STEEL MAKE EXOTHERMIC WELDED CONNECTION AT AN EXPOSED LOCATION

(TYPICAL WHERE POSSIBLE) ₩ BUILDING STRUCTURAL STEEL

- PROVIDE GROUND WIRE TO CONCRETE ENCASED ELECTRODE - MAKE EXOTHERMIC WELDED CONNECTION

- CONNECT GROUND TO BUILDING SLAB REINFORCEMENT PER 250-50(C)

ELECTRICAL GROUNDING DETAIL

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AP Construction

Contractor, LLC

439 River Isle Ct

Longwood, Florida 32779

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-EY ARE SIGNED AND SEALED

DRAWN CHECKED JJG 10/25/19 SCALE AS SHOWN JOB NUMBER 1804908C-Auburndale SHEET