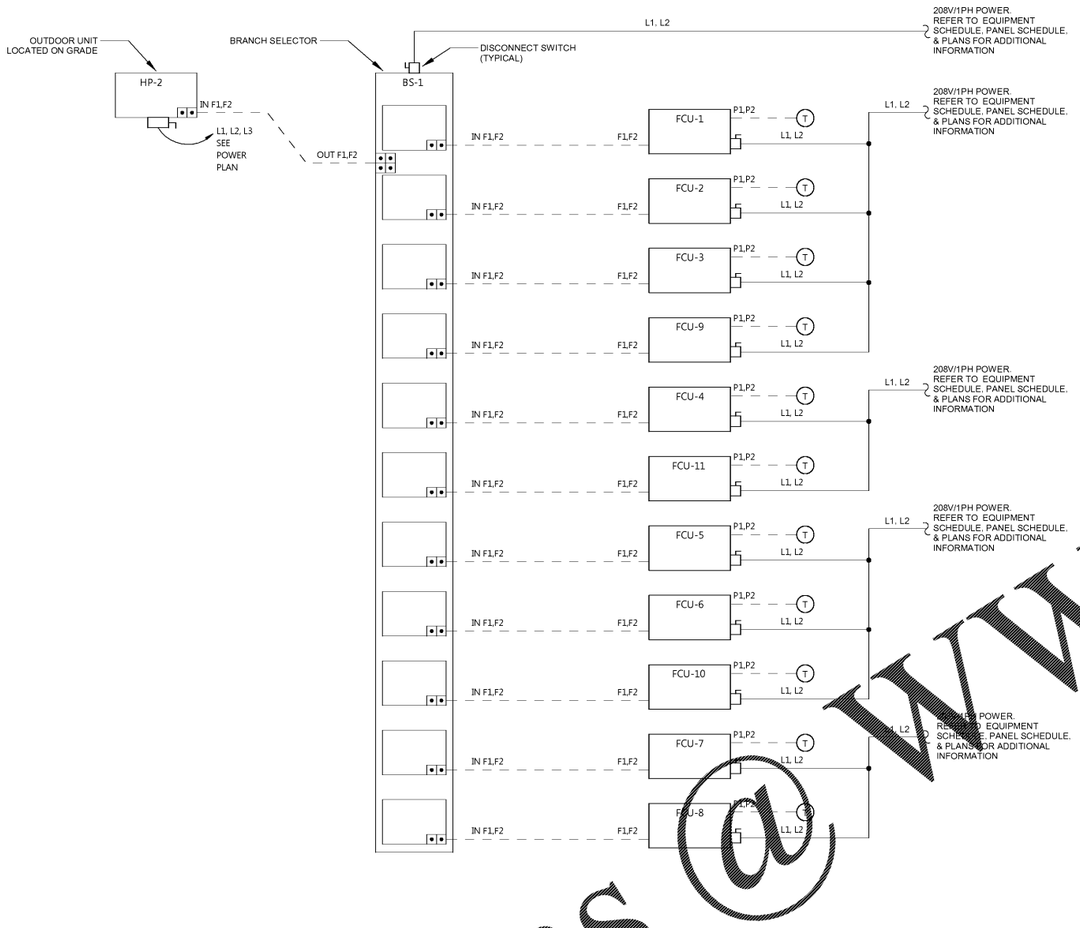


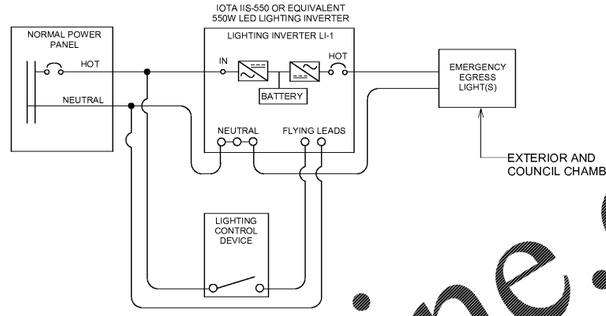
HVAC WIRING DIAGRAM NOTES:

1. THIS POWER & DATA CONNECTION DETAIL IS GENERIC IN NATURE & INTENDED TO BE FOR COORDINATIONS REFERENCE ONLY.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE 3/4" CONDUIT WITH PULL STRING FOR ALL "Q1/Q2", "IF1/IF2" & "P1/P2" IN THE CONNECTION CONDUIT FOR HVAC SYSTEM. VERIFY REQUIREMENTS & LOCATIONS WITH MECHANICAL DRAWINGS AND MECHANICAL/CONTROLS CONTRACTOR.
3. REFER TO "AIR HANDLER CONNECTION SCHEDULE", "EQUIPMENT CONNECTION SCHEDULE" & ELECTRICAL POWER PLANS FOR UNIT SPECIFIC INFORMATION.
4. COORDINATE FINAL POWER AND DATA REQUIREMENTS WITH SELECTED EQUIPMENT.

LEGEND

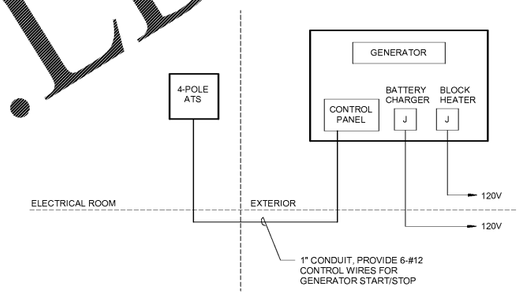
- DATA / CONTROL
- 208V POWER
- EQUIPMENT

1 E003 VRV POWER & CONTROL DETAIL
NOT TO SCALE



1. DETAIL SHOWN INDICATES LIGHTING INVERTER AND NORMAL LIGHTING CIRCUITED FROM THE SAME PANEL. IN THE EVENT THAT ON THE DRAWINGS, THE CIRCUIT FOR THE LIGHTING INVERTER IS FED FROM A PANEL DIFFERENT FROM THAT OF THE LIGHTING, THE CONTRACTOR SHALL USE THE NEUTRAL AND HOTS AS INDICATED ON PLANS.
2. WHERE INDICATED ABOVE AS 'LIGHTING CONTROL DEVICE' AS MEANS FOR SWITCHED LIGHTING, THIS INCLUDES ALL LOCAL SWITCHING AND / OR THE RELAY CONNECTION IN THE LIGHTING CONTROL PANEL.

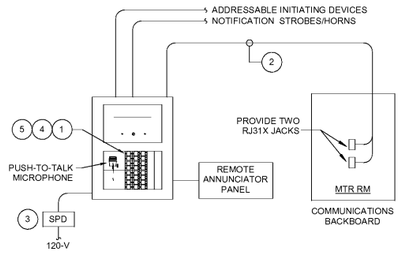
2 E003 EMERGENCY LIGHTING TRANSFER DETAIL
NOT TO SCALE



3 E003 GENERATOR CONTROL DETAIL
NOT TO SCALE

FIRE ALARM SINGLE-LINE NOTES

1. SECONDARY NETWORK PANELS SHALL SUPPORT INITIATION AND NOTIFICATION DEVICES ON SAME FLOOR.
2. PROVIDE TWO 4-PAIR TELEPHONE CABLES IN 1/2" EMT TO COMMUNICATIONS BOARD.
3. PROVIDE SURGE PROTECTIVE DEVICES FOR ALL INCOMING POWER CONNECTIONS TO FIRE ALARM CONTROL PANELS, POWER SUPPLIES, AND BATTERY SYSTEMS.
4. PROVIDE AUDIO CONTROL SWITCHES ON THE "FACP" TO ACCOMMODATE AT A MINIMUM: ALL SPEAKERS MANUAL EVACUATION, SELECTIVE SPEAKER ZONE(S) EVACUATION, ALL SPEAKERS PAGE, SELECTIVE SPEAKER ZONE(S) PAGE, LOCAL SPEAKER ON/OFF, AND LAMP TEST.
5. PROVIDE ALL REQUIRED PROGRAMMING, MODIFICATIONS, SOFTWARE, AND HARDWARE AS REQUIRED AT THE EXISTING FIRE ALARM SYSTEM.



FIRE ALARM SYSTEM GENERAL NOTES :

1. SEE FLOOR PLANS FOR INTENDED COVERAGE OF FIRE ALARM SYSTEM.
2. THE FOLLOWING SHALL OCCUR UPON ACTIVATION OF ANY INITIATING DEVICE:
   - A) SOUND ALL AUDIBLE DEVICES (CHIMES, HORNS, BELLS, ETC.) AND FLASH ALL VISUAL DEVICES (LIGHTS OR STROBES) THROUGHOUT THE ENTIRE FACILITY.
   - B) ALERT A CENTRAL STATION ALARM REPORTING SERVICE VIA DIGITAL COMMUNICATOR AND LEASED TELEPHONE LINES.
   - C) CLOSE ALL SMOKE DOORS THROUGHOUT THE FACILITY.
   - D) STOP OR START AHU'S OR FANS.
   - E) INDICATE BY ZONE WITH AUDIO/VISUAL SIGNAL AT FACP AND ALL REMOTE ANNUNCIATORS.
3. INITIATING DEVICES SHALL BE SMOKE DETECTORS, DUCT-MOUNTED SMOKE DETECTORS, HEAT DETECTORS, MANUAL PULL STATIONS.
4. UPON ACTIVATION OF ANY VALVE SUPERVISORY (TAMPER) SWITCH, A DISTINCT SIGNAL ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION SHALL BE SENT TO THE FACP . VISUAL PORTION OF SIGNAL SHALL BE CONTINUOUS. TONE DURATION SHALL BE 3 SECONDS.
5. SYSTEM TROUBLE (OPEN WIRING, SHORTED WIRING, OR GROUND FAULTS) SHALL BE ANNUNCIATED BOTH AUDIBLY AND VISUALLY AT THE FACP AND AT ALL ANNUNCIATORS.
6. NOTIFICATION APPLIANCE CIRCUITS THAT PASS THROUGH A DIFFERENT ZONE THAN THE ZONE IN WHICH THEY ARE NOTIFYING SHALL BE INSTALLED IN A 2-HOUR RATED CABLE/CONDUIT ASSEMBLY.
7. FIRE ALARM CONTRACTOR SHALL COORDINATE WITH THE OWNER, AND LOCAL FIRE MARSHALL REGARDING THE REQUIRED NOTIFICATION ZONING REQUIREMENTS AND PROVIDE 2-HOUR RATED CABLE/CONDUIT ASSEMBLY FOR EACH REQUIRED ZONE.
8. ALL SYSTEM WIRING SHALL BE CLASS B. NO T-TAPPING IS PERMITTED. CIRCUIT LOOP "SUPPLY AND RETURN" PATHS SHALL BE IN SEPARATE CONDUITS.
9. PROVIDE BATTERY AND VOLTAGE DROP CALCULATIONS THAT INCLUDE ALL EXISTING AND NEW DEVICES AND APPLIANCES INSTALLED IN SYSTEM AND SUBMIT TO CONTRACTING OFFICER.
10. FIRE ALARM SYSTEM CONTROL EQUIPMENT, ALARM INITIATING DEVICES, POWER SOURCES, MUNICIPAL OR REMOTE STATION SIGNALING APPARATUS, SMOKE DOOR HOLD/RELEASE DEVICES, AND REMOTE ANNUNCIATION/CONTROL PANELS (GRAPHIC DISPLAY PANELS EXCLUDED) SHALL BE UNDERWRITER'S LABORATORIES LISTED FOR THE INSTALLED APPLICATION.

4 E003 PARTIAL FIRE RISER DIAGRAM
NOT TO SCALE

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△	Revision Date	Description

Town of James Island

James Island Town Hall

1122/1126 Dills Bluff Road
Charleston, SC.

Project Number:	15169-00
Checked By:	DAW
Drawn By:	MCG
Date:	04/03/17
Scale:	NTS

E003

ELECTRICAL DETAILS

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