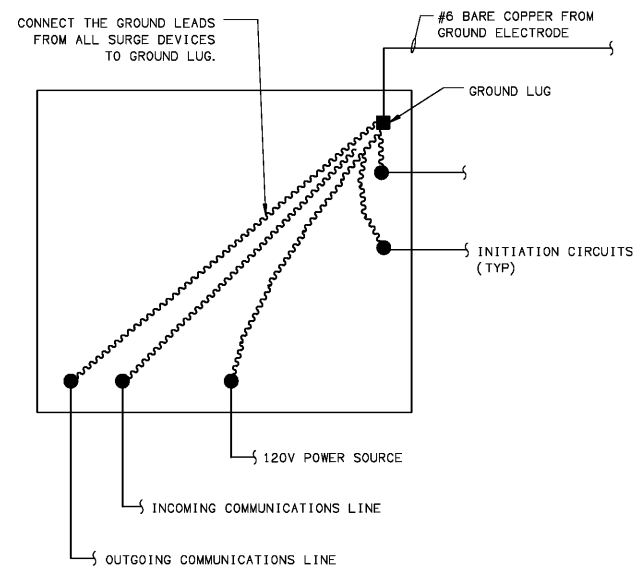
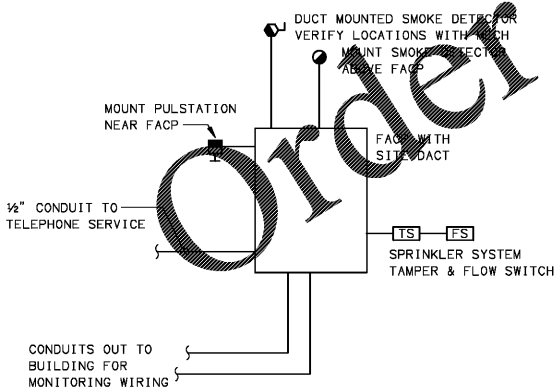


ELEVATOR CONTROLLER/FACP INTERCONNECTION DIAGRAM
SCALE: N. T. S.



FACP SURGE PROTECTION DETAILS
SCALE: NTS



CLUBHOUSE FIRE ALARM RISER
SCALE: NTS

INTERCONNECTION DETAIL NOTES

- Ⓐ RECALL TO DESIGNATED LEVEL CONTACTS.
- Ⓑ RECALL TO ALTERNATE LEVEL CONTACTS.
- Ⓒ WARNING SIGNALS CONTACTS.
- Ⓓ CAUSES RECALL TO ALTERNATE LEVEL. CAUSES FLASHING OF WARNING SIGNALS IN ELEVATOR CAB AND ELEVATOR LOBBY.
- Ⓔ CAUSES RECALL TO DESIGNATED LEVEL. CAUSES FLASHING OF WARNING SIGNALS IN ELEVATOR CAB AND ELEVATOR LOBBY.
- Ⓕ CAUSES RECALL TO DESIGNATED LEVEL. CAUSES FLASHING OF WARNING SIGNALS IN ELEVATOR CAB AND ELEVATOR LOBBY.
- Ⓖ CAUSES RECALL TO DESIGNATED LEVEL. CAUSES FLASHING OF WARNING SIGNALS IN ELEVATOR CAB AND ELEVATOR LOBBY.
- Ⓗ 120V, 135 DEGREE FIXED TEMPERATURE HEAT DETECTOR. MOUNT HEAT DETECTOR WITHIN 2' OF EACH SPRINKLER HEAD. CAUSES THE DISCONNECTION OF ELEVATOR MAIN POWER.
- Ⓙ SUPERVISORY CIRCUIT THAT MONITERS VOLTAGE TO 120V DEVICES THROUGH RELAY "R1".
- Ⓝ SHUNT TRIP BREAKER WITH 120V CONTROL VOLTAGE.
- Ⓚ CONNECTION FROM ELEVATOR CONTROLLER TO RELAY "R2" CONTROLLING ELEVATOR WARNING SIGNALS.
- Ⓛ 120V ELEVATOR WARNING LIGHT. (TYPICAL)

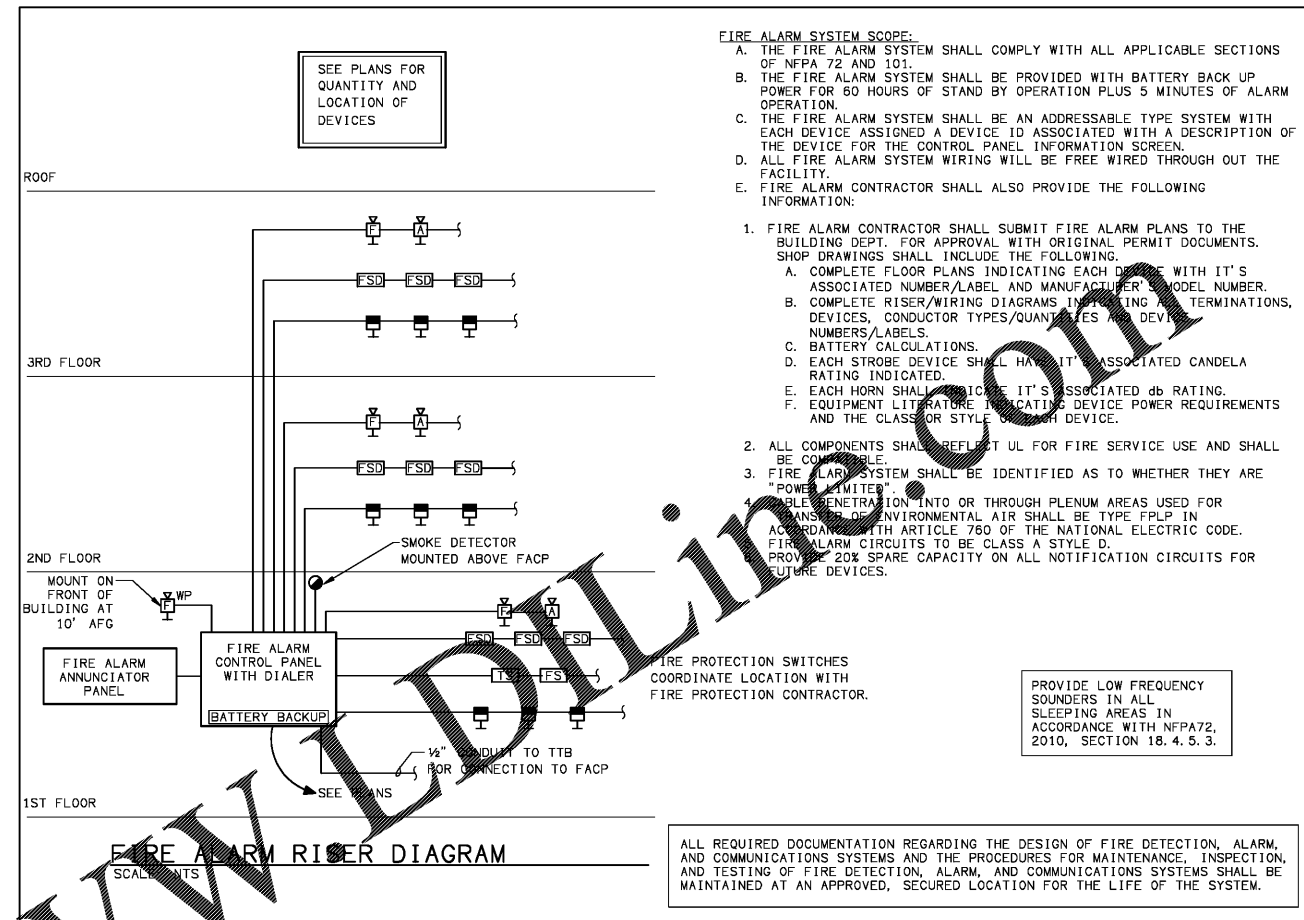
FIRE ALARM SEQUENCE OF OPERATION

FIRE ALARM SYSTEM AND ITS COMPONENTS AND SYSTEM OPERATIONS SHALL ALSO MEET THE APPROVAL OF THE LOCAL FIRE DEPARTMENT.

- FUNCTIONS**
- UPON ACTUATION OF ANY MANUAL ALARM STATION OR AUTOMATIC ALARM INITIATING DEVICE THEY SHALL ILLUMINATE THE ZONE LED AT THE CONTROL PANEL AND REMOTE ANNUNCIATORS.
 - OPERATE ALL AUDIBLE AND VISUAL ALARM SIGNALS.
 - AUDIBLE DEVICES MUST NOTIFY BUILDING OCCUPANTS IN ACCORDANCE WITH ANSI S3.41, "AUDIBLE EMERGENCY EVACUATION SIGNAL".
 - HAVE PROVISIONS TO TRANSMIT FIRE ALARM SIGNAL TO THE CENTRAL STATION MONITORING PROVIDER VIA TELEPHONE LINES.
 - IT SHALL BE POSSIBLE TO SILENCE THE ALARM SIGNALS BEFORE OPERATING THE RESET SWITCH BY DEPRESSING THE SIGNAL SILENCE SWITCH. HOWEVER, WITH THE SIGNALS SILENCED SUBSEQUENT ZONE ALARMS WILL RESPOND TO THE SIGNALS.
 - POWER FAILURE, OPENS, GROUNDS OR ANY DISARRANGEMENT OF SYSTEM WIRING OR COMPONENTS SHALL BE INDICATED BY A VISUAL AND AUDIBLE TROUBLE SIGNAL AT REMOTE ANNUNCIATORS AND THE FIRE CONTROL PANEL. THE TROUBLE SIGNAL MAY BE SILENCED, BUT THE TROUBLE LIGHT MUST REMAIN ILLUMINATED UNTIL THE SYSTEM HAS BEEN RETURNED TO NORMAL. AT WHICH TIME THE TROUBLE SIGNAL SHALL RESOUND UNTIL THE TROUBLE SILENCE SWITCH HAS BEEN RETURNED TO THE NORMAL POSITION.

FIRE ALARM DEVICE RATINGS

- A. MINI-HORNS IN UNITS TO BE 81db AT 10'
- B. STROBES IN SLEEPING AREAS TO BE 110cd.
- C. HORNS IN COMMON AREAS TO BE 81DB AT 10'
- D. STROBES IN CORRIDORS AND BREEZEWAYS TO BE 75cd.



- FIRE ALARM SYSTEM SCOPE:**
- THE FIRE ALARM SYSTEM SHALL COMPLY WITH ALL APPLICABLE SECTIONS OF NFPA 72 AND 101.
 - THE FIRE ALARM SYSTEM SHALL BE PROVIDED WITH BATTERY BACK UP POWER FOR 80 HOURS OF STAND BY OPERATION PLUS 5 MINUTES OF ALARM OPERATION.
 - THE FIRE ALARM SYSTEM SHALL BE AN ADDRESSABLE TYPE SYSTEM WITH EACH DEVICE ASSIGNED A DEVICE ID ASSOCIATED WITH A DESCRIPTION OF THE DEVICE FOR THE CONTROL PANEL INFORMATION SCREEN.
 - ALL FIRE ALARM SYSTEM WIRING WILL BE FREE WIRED THROUGH OUT THE FACILITY.
 - FIRE ALARM CONTRACTOR SHALL ALSO PROVIDE THE FOLLOWING INFORMATION:
 - FIRE ALARM CONTRACTOR SHALL SUBMIT FIRE ALARM PLANS TO THE BUILDING DEPT. FOR APPROVAL WITH ORIGINAL PERMIT DOCUMENTS. SHOP DRAWINGS SHALL INCLUDE THE FOLLOWING:
 - COMPLETE FLOOR PLANS INDICATING EACH DEVICE WITH IT'S ASSOCIATED NUMBER/LABEL AND MANUFACTURER'S MODEL NUMBER.
 - COMPLETE RISER/WIRING DIAGRAMS INDICATING TERMINATIONS, DEVICES, CONDUCTOR TYPES/QUANTITIES AND DEVICE NUMBERS/LABELS.
 - BATTERY CALCULATIONS.
 - EACH STROBE DEVICE SHALL HAVE IT'S ASSOCIATED CANDELA RATING INDICATED.
 - EACH HORN SHALL HAVE IT'S ASSOCIATED db RATING.
 - EQUIPMENT LITERATURE INDICATING DEVICE POWER REQUIREMENTS AND THE CLASS OR STYLE OF EACH DEVICE.
 - ALL COMPONENTS SHALL REFLECT UL FOR FIRE SERVICE USE AND SHALL BE COMPLETE.
 - FIRE ALARM SYSTEM SHALL BE IDENTIFIED AS TO WHETHER THEY ARE "POWER SILENT".
 - ABLE PENETRATION INTO OR THROUGH PLENUM AREAS USED FOR TRANSPORT OF ENVIRONMENTAL AIR SHALL BE TYPE FPLP IN ACCORDANCE WITH ARTICLE 760 OF THE NATIONAL ELECTRIC CODE. FIRE ALARM CIRCUITS TO BE CLASS A STYLE D. PROVIDE 20% SPARE CAPACITY ON ALL NOTIFICATION CIRCUITS FOR FUTURE DEVICES.

ALL REQUIRED DOCUMENTATION REGARDING THE DESIGN OF FIRE DETECTION, ALARM, AND COMMUNICATIONS SYSTEMS AND THE PROCEDURES FOR MAINTENANCE, INSPECTION, AND TESTING OF FIRE DETECTION, ALARM, AND COMMUNICATIONS SYSTEMS SHALL BE MAINTAINED AT AN APPROVED, SECURED LOCATION FOR THE LIFE OF THE SYSTEM.

FIRE ALARM SYSTEM

- Fire alarm system and its components and system operations shall also meet the approval of the local fire department.
- FUNCTIONS**
 - Upon actuation of any manual alarm station or automatic alarm initiating device they shall illuminate the address LED at the control panel and remote annunciators.
 - Operate all audible and visual alarm signals.
 - Audible devices must notify building occupants in accordance with ANSI S3.41, "Audible Emergency Evacuation Signal".
 - Have provisions to transmit fire alarm signal to the local fire department via telephone lines.
 - It shall be possible to silence the alarm signals before operating the reset switch by depressing the signal silence switch. However, with the signals silenced subsequent zone alarms will respond to the signals.
 - Power failure, opens, grounds or any disarrangement of system wiring or components shall be indicated by a visual and audible trouble signal at remote annunciators and the fire control panel. The trouble signal may be silenced, but the trouble light must remain illuminated until the system has been returned to normal, at which time the trouble signal shall resound until the trouble silence switch has been returned to the normal position.
- EQUIPMENT**
 - Fire alarm annunciator panel and control panels shall be located as indicated on the drawings.
 - Provide complete and operable addressable fire alarm system.
 - Fire alarm horn/light units shall be surface mounted with red finish or stainless steel trim. Light lens shall be silk screened with the word "FIRE" in red lettering.
 - Strobe lights shall be rated as indicated on drawings and noted in fire alarm riser notes.
 - Pull stations shall be non-coded, manually operated, single action with break glass rod. Provide weatherproof covers for all pullstations exposed to rain.
 - Residential unit horns shall be flush mounted in a single gang box with a red finish.
 - Provide an approved digital communicator to transmit the fire alarm and supervisory signals to a central station. The digital communicator shall be UL and FM listed for fire reporting to a central station and shall conform to the requirements to NFPA 71.
 - Fire Alarm Systems wiring: alarm initiating circuits shall be 16 AWG stranded or larger, with 7 strands (maximum), or 14 AWG solid. Alarm indicating circuits shall be 14 AWG solid or larger. Install per manufacturer's wiring diagrams.
 - Provide surge protection on all FACP power circuits and all communications lines between buildings as recommended by the equipment manufacturer.
- SITE MONITORING**
 - Provide a fire alarm control panel in each building to monitor pull stations and sprinkler system tamper and flow switches. Each control panel shall have a communication card installed to communicate with DACT at clubhouse.
 - Provide the digital communicator at the clubhouse for monitoring of all fire alarm control stations.
 - Route 3/4" conduits and communication wiring between buildings and to the clubhouse so that an alarm signal from any building will activate the digital communicator.
 - Digital communicator shall notify independent monitoring company and fire station. This signal shall precisely identify the address and number of the building in alarm.

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ELECTRICAL SCHEDULES AND DETAILS

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