



State of Utah

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Department of Administrative Services

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Division of Facilities Construction and Management

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ADDENDUM #1

Date: October 10, 2007

To: Contractors

From: Jim Russell, Project Manager, DFCM

Reference: Fire Alarm Upgrade – Ogden Second District Court
Administrative Office of the Courts – Ogden, Utah
DFCM Project No. 07123150

Subject: **Addendum No. 1**

Pages	Addendum	1	page
	<u>Engineers Addendum</u>	<u>7</u>	<u>pages</u>
	Total	8	pages

Note: This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to Disqualification.

- 1.1 SCHEDULE CHANGES** – There are no changes to the Project Schedule.
- 1.2 GENERAL** – PCI Consultants - Specifications and drawings.



Date: October 9, 2007

To: Jim Russell
State of Utah DFCM

From: Greg Jones 
Protection Consultants, Inc.

Project: Ogden District Courts Fire Alarm Upgrade – DFCM 071233150

Subject: Revisions to Fire Alarm Drawings for Addendum 1

Based on questions presented and conditions observed in the pre-bid walkthrough held Thursday October 4, 2007 at the Ogden Courts Building, several revisions were made to the drawings for the fire alarm system upgrade. A brief description of the revisions made to each drawing sheet is included below. The scope of the changes is not excessive. In my opinion, it will not be necessary to reissue entire drawing sheets. Attached to this letter are 8-1/2" x 11" prints of the portions of each drawings sheet revised. Together with this letter, the 8-1/2" x 11" drawings should be sufficient to allow bidding contractors to rapidly identify the revisions to the contract documents.

ALL SHEETS:

1. Edited key note 7 and key note 8 to indicate that owner (DFCM) will pay the cost of coordination with the elevator service contractor required to integrate the fire alarm system with the elevator systems.
2. Edited key note 8 to indicate that power shunt-trip breaker is existing for elevators 1, 2, 4 and 5. Only elevator 3 will require the installation of a new breaker capable of shunt-trip operation.
3. Edited information in Fire Alarm Equipment Legend for existing magnetic hold open devices to indicate that the existing devices must be replaced with new devices that will operate with a power supply of 24 VDC.

Sheets FA-2 and FA-3:

4. Edited symbols in east Electrical Room on each level to correctly call out two remote power supplies instead of one remote power supply and one fire alarm control panel.

Sheets FA-2, FA-3, FA-4, FA-8, FA-9 and FA-10:

5. Added indication that Custodial Closet on west side of building is an acceptable alternate location for remote notification circuit power supplies.

Sheet FA-7:

6. Replace wall mounted notification appliance in Work Room 143 with a new ceiling mounted device.

FIRE ALARM SYSTEM KEY NOTES

- ① REMOVE EXISTING FIRE ALARM CONTROL PANEL (FACP), MODULES AND ENCLOSURES. FURNISH AND INSTALL NEW ADDRESSABLE FACP AT OR ADJACENT TO LOCATION OF EXISTING PANEL. FACP SHALL HAVE ALPHANUMERIC ANNUNCIATOR AND DIGITAL COMMUNICATOR. FACP SHALL BE SILENT KNIGHT MODEL 5820XL OR FIRE-LITE MODEL MS-9600 WITH DACT-UD. FACP SHALL PROVIDE ALL REQUIRED PROTECTED PREMISES FIRE SAFETY FUNCTIONS (FIRE DOOR RELEASE, FAN SHUTDOWN, ELEVATOR RECALL, ETC.) FACP SHALL RELAY FIRE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO OFF-PREMISE CENTRAL STATION USING DIGITAL COMMUNICATOR AND NEW OR EXISTING PHONE LINES (PRIMARY & SECONDARY).
- ② EXISTING ANNUNCIATOR PANEL TO BE REMOVED. FURNISH AND INSTALL NEW ANNUNCIATOR PANEL FOR ADDRESSABLE FIRE ALARM SYSTEM AT SAME LOCATION. PATCH AND PAINT WALL AS REQUIRED IF NEW ANNUNCIATOR IS SMALLER THAN EXISTING.
- ③ FURNISH AND INSTALL NEW ANNUNCIATOR PANEL FOR ADDRESSABLE FIRE ALARM SYSTEM AT MAIN ENTRY. INSTALL ON RECESSED J-BOX AT 54" AFF WITH CONDUIT CONCEALED IN WALL
- ④ FURNISH AND INSTALL A NEW MAGNETIC HOLD-OPEN DEVICE FOR EXISTING DOOR IN RATED WALL (RIXSON MODEL 996 OR EQUAL). MOUNT DEVICE HIGH ON WALL TO HOLD UPPER EDGE OF DOOR. DEVICE MAY BE SURFACE MOUNTED BUT CONDUIT TO DEVICE SHALL BE CONCEALED OR WIRING MUST BE CONCEALED BY PAINTED WIRE MOLDING. 24 VDC POWER TO DOOR HOLDERS (NEW AND EXISTING) SHALL BE SUPPLIED BY FACP OR REMOTE POWER SUPPLIES. PROVIDE 1 POWER CIRCUIT FOR EACH BUILDING LEVEL. PROVIDE A PROGRAMMABLE RELAY AT POWER SOURCE TO DISCONNECT POWER AND RELEASE DOORS UPON RECEIPT OF FIRE ALARM SIGNAL AT THE FACP.
- ⑤ PROVIDE PROGRAMMABLE RELAY TO RELEASE EXISTING FIRE DOOR UPON ACTIVATION OF SMOKE DETECTORS ON EITHER SIDE OF DOOR OPENING.
- ⑥ PROVIDE REMOTE POWER SUPPLIES TO PROVIDE 24 VDC POWER TO NOTIFICATION APPLIANCE CIRCUITS AND MAGNETIC DOOR HOLD-OPEN DEVICES. SURFACE MOUNT ON WALL. PROVIDE ADDRESSABLE MONITOR MODULE TO SUPERVISE TROUBLE OUTPUT OF POWER SUPPLY. PROVIDE CONTROL MODULE TO ACTIVATE NOTIFICATION CIRCUITS UPON RECEIPT OF FIRE ALARM SIGNAL AT FACP. PROVIDE BATTERIES FOR SECONDARY POWER SUPPLY. SIZE BATTERIES TO PROVIDE 24 HOURS OF STANDBY POWER WITH AN ADDITIONAL RESERVE TO PROVIDE 5 MINUTES OF ALARM POWER. PROVIDE SYNC MODULE TO SYNCHRONIZE ALL STROBE FLASHES WITHIN A SINGLE FIELD OF VIEW.
- ⑦ FURNISH AND INSTALL DETECTORS AT EACH ELEVATOR LOBBY, AT THE TOP OF EACH ELEVATOR SHAFT AND IN EACH ELEVATOR EQUIPMENT ROOM TO PROVIDE ELEVATOR RECALL FUNCTIONS IN ACCORDANCE WITH NFPA 72 AND ASME A11. PROVIDE ADDRESSABLE RELAYS TO INTERFACE WITH ELEVATOR CONTROLS AND PROGRAM RECALL FUNCTIONS AS FOLLOWS:
 - 1- OPERATION OF SMOKE DETECTOR IN ELEVATOR EQUIPMENT ROOM, SHAFT OR ELEVATOR LOBBY ON 2ND, 3RD, 4TH OR BASEMENT - ELEVATOR RECALLS TO 1ST LEVEL (PRIMARY RECALL.)
 - ① 2. OPERATION OF SMOKE DETECTOR ON 1ST LEVEL - ELEVATOR RECALLS TO 2ND FLOOR (SECONDARY RECALL.)

RECALL FOR EACH ELEVATOR SHALL BE INDEPENDENT OF OTHER ELEVATORS. OWNER TO PAY FOR SERVICE CALLS FROM ELEVATOR SERVICE CONTRACTOR REQUIRED FOR SYSTEM INTERFACE.
- ⑧ FURNISH AND INSTALL HEAT DETECTORS IN ELEVATOR SHAFTS AND MACHINE ROOMS. HEAT DETECTORS SHALL CONFORM TO NFPA 72 AND ASME A17.1. PROVIDE ADDRESSABLE RELAYS AND SHUNT TRIP BREAKERS (ELEV 3 ONLY. SHUNT TRIP EXISTING FOR ELEV 1, 2, 4 & 5) TO DISCONNECT POWER TO ELEVATOR EQUIPMENT UPON OPERATION OF EITHER HEAT DETECTOR. POWER SHUT DOWN FOR EACH ELEVATOR SHALL BE INDEPENDENT OF OTHER ELEVATORS. OWNER TO PAY FOR SERVICE CALLS FROM ELEVATOR SERVICE CONTRACTOR REQUIRED FOR SYSTEM INTERFACE.
- ⑨ FURNISH AND INSTALL A PROGRAMMABLE RELAY TO SHUT DOWN EACH AIR HANDLER WITH A CAPACITY IN EXCESS OF 2,000 CFM. CONTROL RELAYS SHALL BE NORMALLY ENERGIZED AND FAN CONTROLS SHALL BE CONNECTED TO NORMALLY CLOSED CONTACTS ON THE RELAYS. RELAYS SHALL BE PROGRAMMED TO SHUT DOWN ALL AIR HANDLERS SIMULTANEOUSLY UPON ACTIVATION OF ANY AREA OR DUCT SMOKE DETECTOR AND SHALL NOT RESTORE UNTIL THE FACP HAS RESET. FIELD VERIFY LOCATION OF HVAC CONTROLS.

ADDENDUM # 1

ALL SHEETS

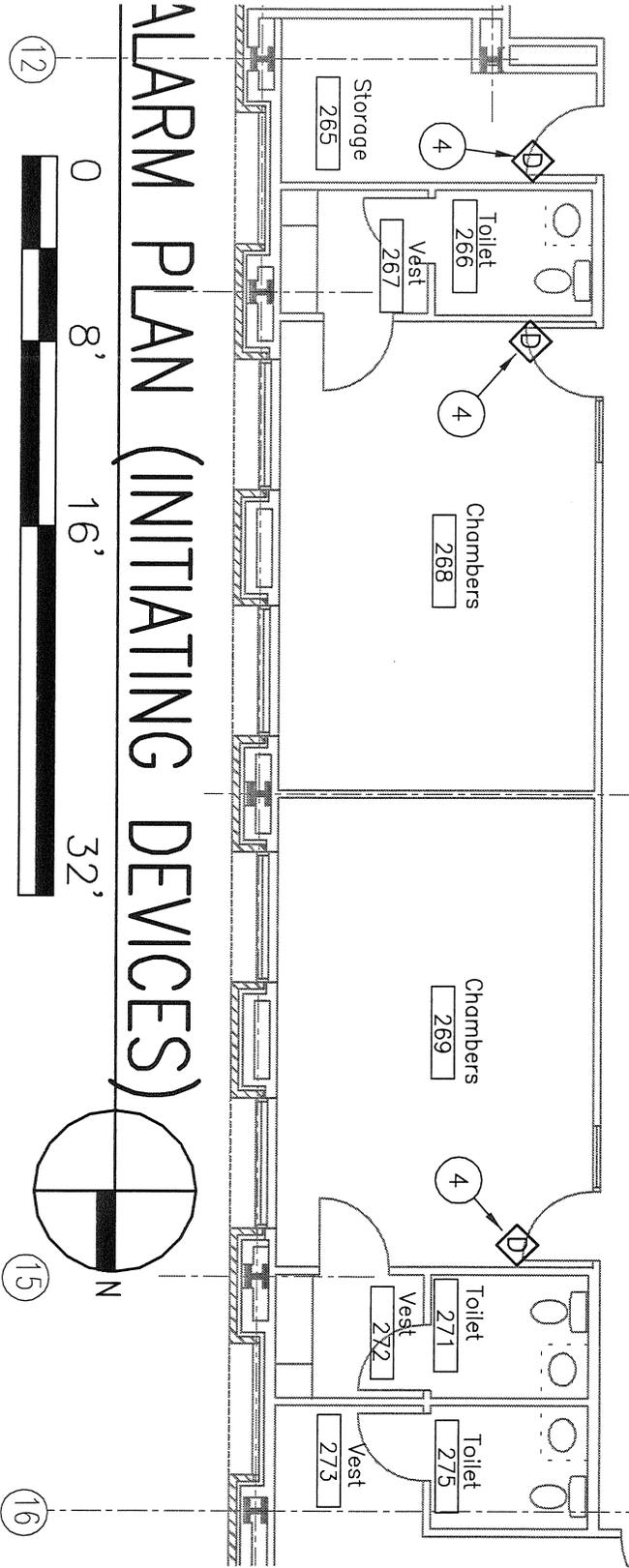
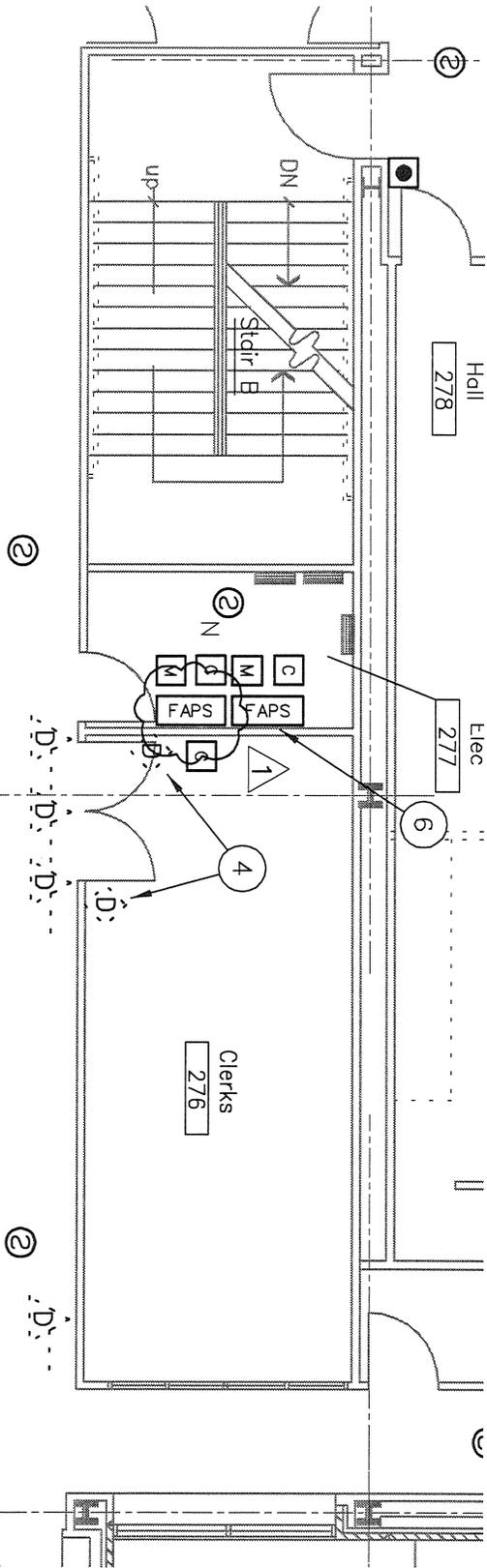
FIRE ALARM EQUIPMENT LEGEND

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
	ADDRESSABLE FIRE ALARM CONTROL PANEL TO REPLACE EXISTING PANEL	SURFACE MOUNT ON WALL ADJACENT TO EXISTING PANEL TO BE REMOVED	SILENT KNIGHT MODEL 5820XL OR FIRE-LITE MODEL MS-9600 WITH DACT-UD
	FIRE ALARM ANNUNCIATOR PANEL	MOUNT ON NEW J-BOX PROVIDE TRIM RING IF NEW DEVICE IS SMALLER THAN EXISTING	ANNUNCIATOR SHALL HAVE A BUILT-IN LCD TO DISPLAY STATUS OF FIRE ALARM SYSTEM AND INPUT KEYS TO ALLOW FOR ALARM SILENCE AND SYSTEM RESET
	FIRE ALARM ANNUNCIATOR PANEL	MOUNT ON NEW J-BOX RECESSED INTO WALL. CONDUIT SHALL BE CONCEALED IN WALL	ANNUNCIATOR SHALL HAVE A BUILT-IN LCD TO DISPLAY STATUS OF FIRE ALARM SYSTEM AND INPUT KEYS TO ALLOW FOR ALARM SILENCE AND SYSTEM RESET
	REMOTE POWER SUPPLY	SURFACE MOUNT ON WALL	TO POWER NOTIFICATION APPLIANCE CIRCUITS AND DOOR HOLD-OPEN DEVICES.
	CONTROL PANEL FOR EXISTING SMOKE EVACUATION SYSTEM	EXISTING TO REMAIN	PROVIDE CONTROL RELAYS AND MINITOR MODULES TO ALLOW AUTOMATIC CONTROL AND MONITORING OF SMOKE EVAC. SYSTEM
	DIGITAL ALARM COMMUNICATION TRANSMITTER	EXISTING TO REMAIN	EXISTING DACT TO BE RECONFIGURED. FUNCTION OF DACT TO BE BUILT-INTO NEW ADDRESSABLE FACP. EXTEND EXISTING PRIMARY AND SECONDARY TELEPHONE LINES FROM DACT TO FACP.
	NEW ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR TO REPLACE EXISTING	CEILING MOUNTED ON EXISTING J-BOX.	REMOVE EXISTING SMOKE DETECTOR AND REPLACE WITH NEW DETECTOR COMPATIBLE WITH NEW FACP.
	NEW ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR	CEILING MOUNTED ON NEW RECESSED J-BOX.	ADD NEW SMOKE DETECTOR WHERE INDICATED ON PLAN.
	NEW ADDRESSABLE HEAT DETECTOR (FIXED TEMP.) TO REPLACE EXISTING DETECTOR	CEILING MOUNTED ON NEW OR EXISTING J-BOX.	REMOVE EXISTING HEAT DETECTORS AND REPLACE WITH NEW DETECTOR COMPATIBLE WITH NEW FACP.
	EXISTING PROJECTOR BEAM SMOKE DETECTOR	EXISTING TO REMAIN	PROVIDE SUPERVISED 24 VDC POWER TO DETECTOR PROVIDE MONITOR MODULES TO SUPERVISE ALARM TROUBLE CONTACTS
	NEW ADDRESSABLE MANUAL PULL STATION TO REPLACE EXISTING	MOUNT ON EXISTING J-BOX.	REPLACE EXISTING PULL STATION WITH NEW PULL STATION COMPATIBLE WITH NEW FACP. CLEAN, PATCH AND/OR PAINT WALL AS REQUIRED IF NEW DEVICE IS SMALLER THAN EXISTING
	VALVE SUPERVISORY SWITCH FOR EXISTING FIRE SPRINKLER/STANDPIPE SYSTEM.	EXISTING TO REMAIN	INSTALL NEW ADDRESSABLE MONITOR MODULE NEAR DEVICE TO FACILITATE MONITORING OF EXISTING DEVICE
	WATER FLOW SWITCH FOR EXISTING FIRE/STANDPIPE SYSTEM	EXISTING TO REMAIN	
	ADDRESSABLE MONITOR MODULE	MOUNT ON NEW OR EXISTING J-BOX NEAR CONVENTIONAL DEVICE TO BE MONITORED.	CONNECT TO CONTACTS OF CONVENTIONAL DEVICE TO FACILITATE MONITORING OF DEVICE AS AN ADDRESSABLE POINT. MODULE SHALL HAVE EXTERNAL LED TO DISPLAY ACTIVATION.
	ADDRESSABLE CONTROL RELAY MODULE	MOUNT ON NEW OR EXISTING J-BOX WITHIN 3' OF DEVICE OR CIRCUIT CONTROLLED.	TO PROVIDE PROTECTED PREMISE FIRE SAFETY FUNCTIONS SUCH AS DOOR RELEASE, FAN SHUTDOWN, ELEVATOR RECALL OR FIRE/SMOKE DAMPER ACTUATION, ETC.
	MAGNETIC DOOR HOLD-OPEN DEVICE	SURFACE MOUNT ON WALL. PROVIDE CONCEALED CONDUIT OR PAINTED WIRE MOLDING FOR 24 VDC POWER CIRCUIT.	DOOR HOLDER FOR NORMALLY OPEN DOOR IN RATED WALL. SUPERVISED 24 VDC POWER TO DEVICE TO BE PROVIDED BY FACP OR REMOTE POWER SUPPLY.
	EXISTING MAGNETIC DOOR HOLD-OPEN DEVICE	EXISTING	REPLACE EXISTING DEVICE WITH NEW 24-VDC DEVICE. CONNECT 24-VDC POWER FROM NEW FACP OR NEW REMOTE POWER SUPPLIES. POWER TO DEVICE SHALL BE CONTROLLED BY ADDRESSABLE RELAY.
	FIRE/SMOKE DAMPER	EXISTING TO REMAIN	PROVIDE CONTROL RELAY TO CLOSE EXISTING DAMPERS. CONTRACTOR TO FIELD VERIFY NUMBER AND LOCATION OF DAMPERS AND ARRANGEMENT OF EXISTING POWER CIRCUITS. PROVIDE A MINIMUM OF ONE CONTROL RELAY PER FLOOR.

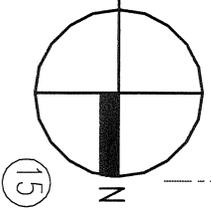
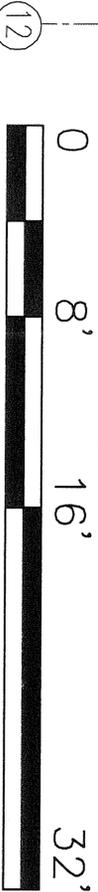
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APPENDUM # 1

SHEETS FA-2 + FA-3



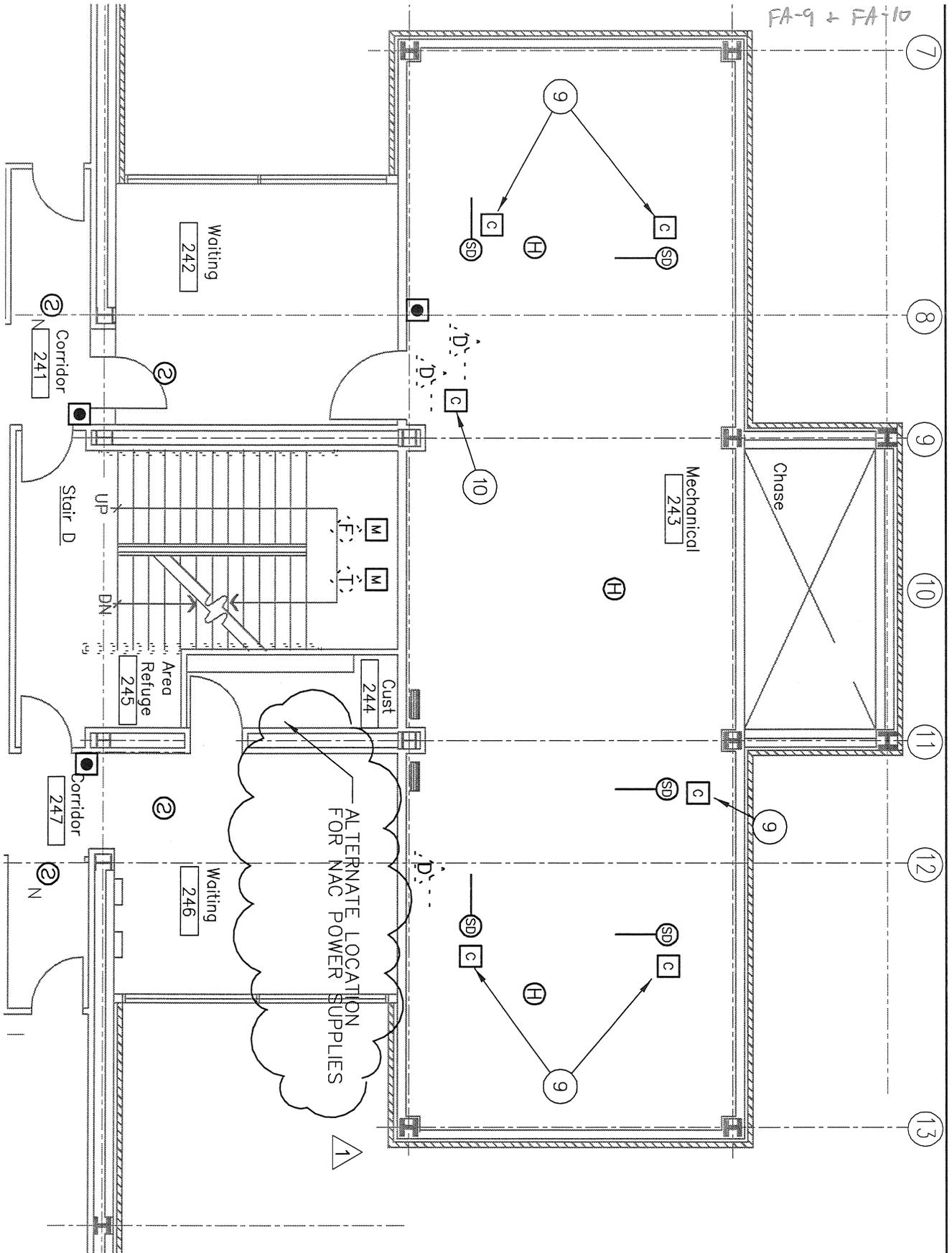
ALARM PLAN (INITIATING DEVICES)



ADDENDUM # 1

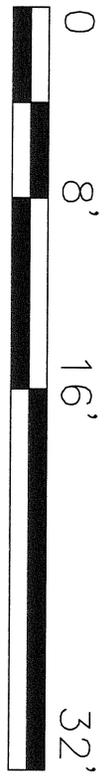
SHEETS FA-2, FA-3, FA-4, FA-8

FA-9 + FA-10

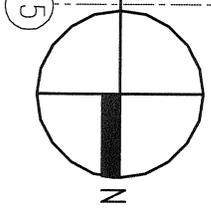


LARM PLAN (NOTIFICATION APPLIANCES)

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