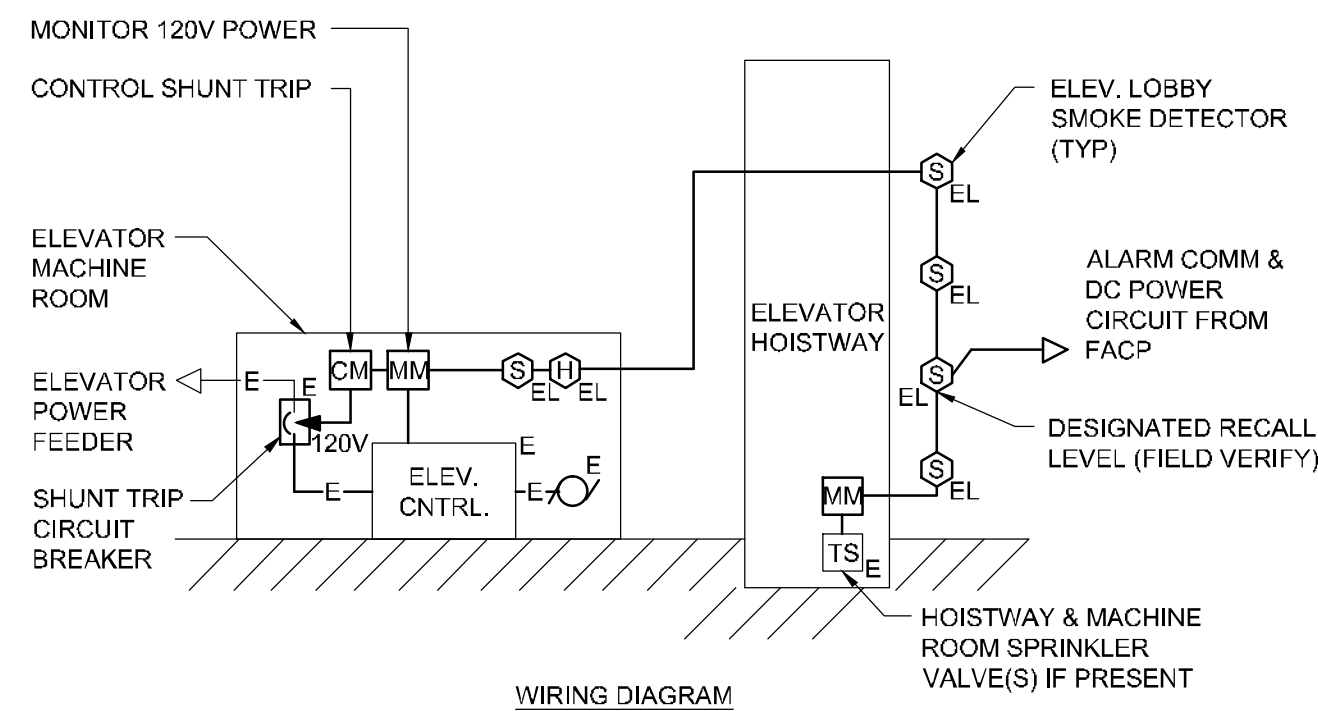
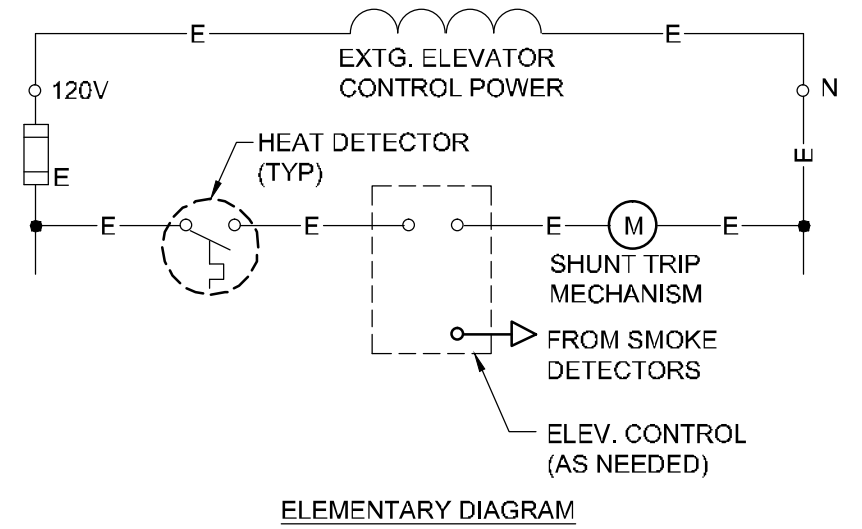


5/10/2013 4:09 PM A:\3801-3900\384210 USM FIRE ALARM SYSTEM UPGRADES\2 DESIGN\DWGS\BUDS\MASTERION\_6P035\MASTERION\_HALL\_FIRE\_ALARM\_UPGRADE\SHEETS\FA501 FIRE ALARM UPGRADE\DETAILS & LEGEND.DWG KYLE MAHAR



WIRING DIAGRAM

- NOTES:**
- REFER TO NFPA 72-2013 SECTION 21.3 FOR SMOKE DETECTOR ELEVATOR CONTROL CIRCUIT REQUIREMENTS. ACTIVATION OF SMOKE DETECTORS TO CAUSE ELEVATOR CONTROL TO RECALL CAR TO DESIGNATED FLOOR AND OPEN DOORS.
  - FIRE ALARM SYSTEM SHALL BE ADDRESSABLE TYPE. PROVIDE ANY NECESSARY INTERFACE RELAYS BETWEEN 120V AND FIRE ALARM COMPONENTS. LOBBY, HOISTWAY, AND MACHINE DETECTORS SHALL BE ADDRESSABLE CONTROL MODULES TO PROVIDE CONTROL OUTPUTS TO ELEVATOR MACHINE.
  - HEAT DETECTOR ALARM TEMPERATURE TO BE MINIMUM 10°F LOWER THAN SPRINKLER HEAD, PER NFPA 72-2013. MOUNT HEAT DETECTOR WITHIN 2'-0" OF SPRINKLER HEAD.
  - REFER TO NFPA 72-2013 SECTION 21.4 FOR ELEVATOR SHUTDOWN SEQUENCE. ACTIVATION OF ANY HEAT DETECTOR TO ACTIVATE SHUNT TRIP TO POWER DOWN ELEVATOR EQUIPMENT. MONITOR 120V AND INITIATE FIRE ALARM TROUBLE IN EVENT OF LOSS OF SHUNT TRIP POWER.
  - COORDINATE ALL WORK WITH ELEVATOR INSPECTOR & SPRINKLER CONTRACTOR(S) TO MEET LIFE SAFETY AND ELEVATOR CODE REQUIREMENTS.



ELEMENTARY DIAGRAM

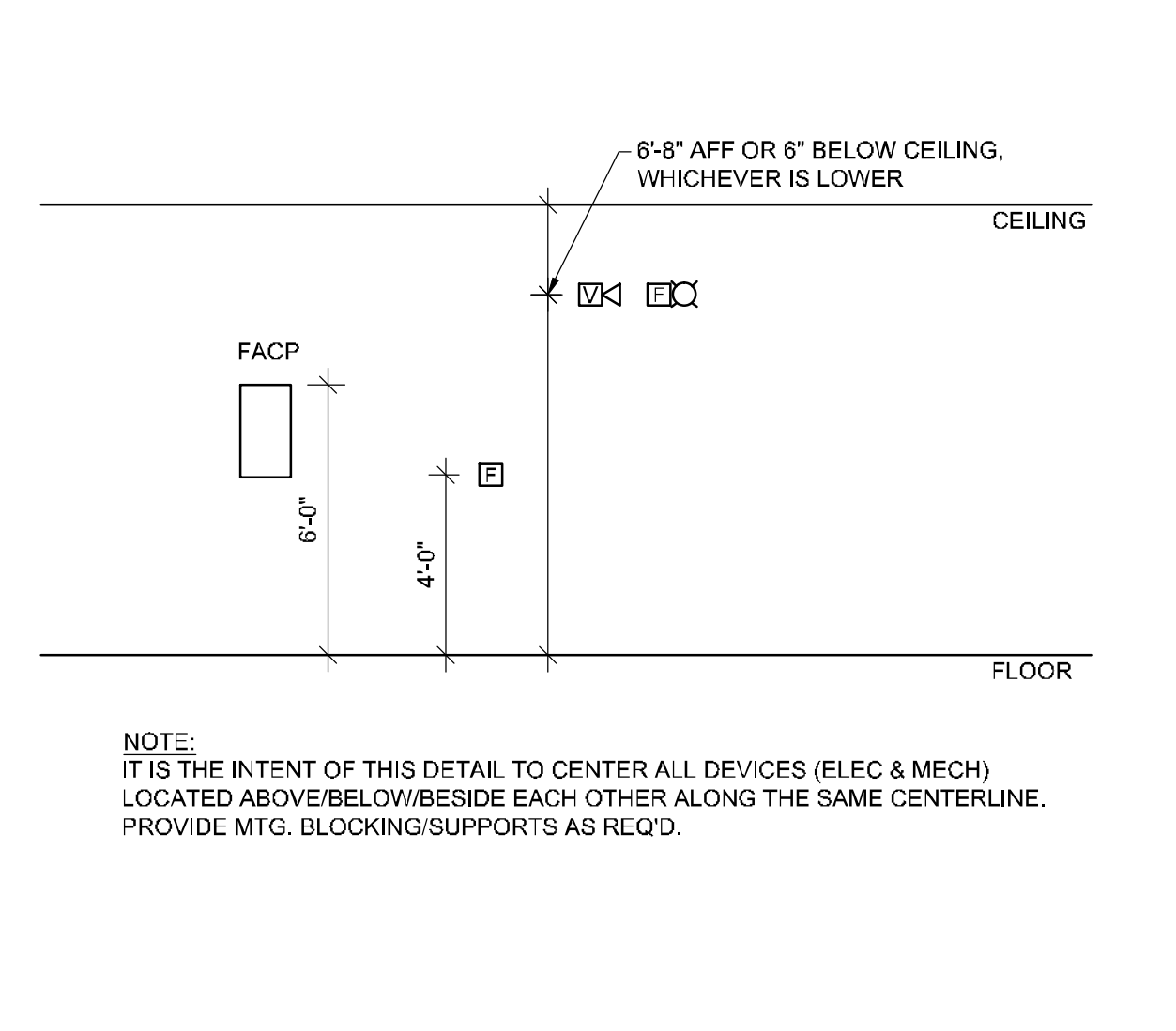
**E1 ELEVATOR WIRING DIAGRAM**

NTS --

0	CONSTRUCTION DOCUMENTS	05.10.13
REV.	DESCRIPTION	DATE

**CONSTRUCTION DOCUMENTS 05.10.13**

CURRENT ISSUE STATUS:



**NOTE:**  
IT IS THE INTENT OF THIS DETAIL TO CENTER ALL DEVICES (ELEC & MECH) LOCATED ABOVE/BELOW/BESIDE EACH OTHER ALONG THE SAME CENTERLINE. PROVIDE MTG. BLOCKING/SUPPORTS AS REQ'D.

**A1 MOUNTING HEIGHT DETAIL**

NTS --

**LEGEND**

- ALL DEVICES, FIXTURES, ETC. SHALL BE NEW UNLESS DESIGNATED WITH THE FOLLOWING TAGS:
- E EXISTING TO REMAIN
  - ER EXISTING RELOCATED
  - NR NEW TO REPLACE EXISTING IN EXISTING LOCATION
  - R EXISTING TO BE REMOVED
  - RR REMOVE & RELOCATE EXISTING
- [FACP] FIRE ALARM SYSTEM CONTROL PANEL
  - [FAA] FIRE ALARM ANNUNCIATOR
  - [H] FIRE ALARM SYSTEM CEILING MOUNTED HEAT DETECTOR
  - [S] FIRE ALARM SYSTEM CEILING MOUNTED SMOKE DETECTOR
  - [S] FIRE ALARM SYSTEM DUCT MOUNTED SMOKE DETECTOR
  - [ ] WALL MOUNTED FIRE ALARM SYSTEM MANUAL PULL STATION
  - [V] FIRE ALARM SYSTEM WALL MOUNTED VOICE/VISUAL DEVICE WITH VISUAL DEVICE CANDELA RATING AS NOTED - "C" INDICATES CEILING MOUNTED
  - [EC] FIRE ALARM SYSTEM WALL MOUNTED VISUAL ONLY DEVICE - CANDELA RATING AS NOTED FIRE ALARM SYSTEM - "C" INDICATES CEILING MOUNTED
  - [ ] FIRE ALARM SYSTEM WALL MOUNTED AUDIO ONLY DEVICE
  - [DH] DOOR HOLD-OPEN DEVICE CONNECTION
  - [PS] FIRE ALARM SYSTEM/SPRINKLER SYSTEM PRESSURE SWITCH
  - [FS] FIRE ALARM SYSTEM/SPRINKLER SYSTEM FLOW SWITCH
  - [TS] FIRE ALARM SYSTEM/SPRINKLER SYSTEM TAMPER SWITCH

**A4 LEGEND, ABBREVIATIONS & GENERAL NOTES**

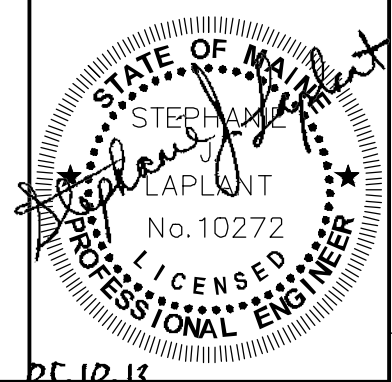
NTS --

**ABBREVIATIONS**

- |       |                                  |       |                                      |
|-------|----------------------------------|-------|--------------------------------------|
| A     | AMPERES                          | GND   | GROUND                               |
| AFF   | ABOVE FINISHED FLOOR             | HP    | HORSEPOWER, HEAT PUMP                |
| AFG   | ABOVE FINISHED GRADE             | JB    | JUNCTION BOX                         |
| ATS   | AUTOMATIC TRANSFER SWITCH        | KVA   | KILO VOLT AMPS                       |
| BATT  | BATTERY                          | KW    | KILOWATT(S)                          |
| BHEC  | BANGOR HYDRO ELECTRIC CO.        | LTG   | LIGHTING                             |
| BKR   | BREAKER                          | MAX   | MAXIMUM                              |
| BLDG  | BUILDING                         | MIN   | MINIMUM                              |
| CB    | CIRCUIT BREAKER                  | N     | NEW                                  |
| CKT   | CIRCUIT                          | OC    | ON CENTER                            |
| CLG   | CEILING                          | OS/OI | OWNER SUPPLIED, OWNER INSTALLED ITEM |
| CMP   | CENTRAL MAINE POWER CO.          | PAR   | PARTIAL CIRCUIT                      |
| CT    | CURRENT TRANSFORMER              | PVC   | POLYVINYL CHLORIDE                   |
| DN    | DOWN                             | RECEP | RECEPTACLE                           |
| DWG   | DRAWING                          | TEL   | TELEPHONE                            |
| EMERG | EMERGENCY                        | TYP   | TYPICAL                              |
| EMT   | ELECTRICAL METALLIC TUBING       | UG    | UNDERGROUND                          |
| EQUIP | EQUIPMENT                        | V     | VOLTS                                |
| FA    | FIRE ALARM                       | W     | WATTS                                |
| FAA   | FIRE ALARM ANNUNCIATOR           | WG    | WIRE GUARD                           |
| FACP  | FIRE ALARM CONTROL PANEL         | WM    | WIREMOLD                             |
| FA-PE | FIRE ALARM SYSTEM POWER EXTENDER | WP    | WEATHERPROOF                         |
| FIN   | FINISH, FINISHED                 |       |                                      |
| FLR   | FLOOR                            |       |                                      |

**GENERAL NOTES**

- ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER, RECTILINEAR TO BUILDING STRUCTURE, AND IN ACCORDANCE WITH ALL APPLICABLE CODES, INCLUDING, BUT NOT LIMITED TO NFPA 70, 72, 90A, AND DIRECTION OF AUTHORITY HAVING JURISDICTION.
- EXISTING AND NEW FIRE ALARM DEVICES ARE SHOWN IN THEIR APPROXIMATE LOCATION. CONTRACTOR SHALL REVIEW THE BUILDING, AND FIELD VERIFY, TO DETERMINE EXACT MOUNTING LOCATIONS FOR FIRE ALARM DEVICES AND EQUIPMENT. CARE SHALL BE TAKEN TO AVOID EXISTING ELECTRICAL, MECHANICAL, SPRINKLER AND OTHER CEILING AND WALL MOUNTED DEVICES AND EQUIPMENT.
- ALL PENETRATION THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH A U.L. LISTED AND APPROVED FIRE SEALANT MATERIAL TO MAINTAIN THE RATING OF THE SEPARATION.
- TO THE EXTENT POSSIBLE, AREAS OF ANY KNOWN HAZARDOUS MATERIALS HAVE BEEN NOTED IN THESE DRAWINGS. CONTRACTOR SHALL AVOID THESE MATERIALS IF AT ALL POSSIBLE. IF IT IS NECESSARY TO DISTURB ANY HAZARDOUS MATERIALS, CONTRACTOR SHALL NOTIFY THE OWNER AND REQUEST DIRECTION BEFORE PROCEEDING.



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**MASTERION HALL FIRE ALARM UPGRADE**

**FIRE ALARM DETAILS & LEGEND**

PROJECT:	PORTLAND, MAINE
SHEET TITLE:	FIRE ALARM DETAILS & LEGEND
WBRC CAD FILE:	3842.11 -- FA501
PROJECT No.:	3842.11
SCALE:	AS NOTED
PM:	SJL
DRAWN BY:	KRM
A/E OF RECORD:	SJL

**FA501**

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