

LIST OF NATIONAL STANDARD CODES USED:

2013 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
 2013 NFPA 70 NATIONAL ELECTRIC CODE
 2013 NFPA 70E STANDARD FOR ELECTRICAL SAFETY IN THE WORK PLACE
 2013 NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE

ABBREVIATIONS:

ABBREV.	DESCRIPTION
120V	120VAC POWER
AFF	ABOVE FINISHED FLOOR
C.COM	COMMON
(E)	EXISTING
EOL	END OF LINE
(N)	NEW
N/A	NO APPLICABLE
NAC	NOTIFICATION APPLIANCE CIRCUIT
SLC	SIGNALING LINE CIRCUIT
TYP	TYPICAL
O.S.&Y	OUTSIDE SCREW & YOKE
UON	UNLESS OTHERWISE NOTED
Z	ZONE

SYMBOLS

FACP	FIRE ALARM CONTROL PANEL
PS	REMOTE POWER SUPPLY
F	MANUAL PULL STATION
Ⓢ	ADDRESABLE SMOKE DETECTOR
○	HEAT DETECTOR
⊠	HORN/STROBE CEILING MOUNTED COMBINATION
⊠	HORN/STROBE WALL MOUNTED COMBINATION
FATC	FIRE ALARM TERMINAL CABINET
○	ADDRESABLE DUCT SMOKE DETECTOR
M	ADDRESABLE MONITOR MODULE
C	ADDRESABLE CONTROL MODULE
R	ADDRESABLE RELAY MODULE
FS	FLOW SWITCH
FP _p	WATER PRESSURE WATER FLOW SWITCH
TS	VALVE SUPERVISORY SWITCH (TAMPER SWITCH)
⊙	WATER FLOW SWITCH
⊙	SUPERVISORY TAMPER SWITCH
⊔	BELL
EOL	END OF LINE

FIRE ALARM OPERATION MATRIX

	ACTIVATE ALARM AT FACU	ACTIVATE ALARM AT REMOTE ANNUNCIATOR	ACTIVATE TROUBLE SIGNAL AT FACU	ACTIVATE TROUBLE AT REMOTE ANNUNCIATOR	ACTIVATE SUPERVISORY SIGNAL AT FACU	ACTIVATE SUPERVISORY SIGNAL AT ANNUNCIATOR	SEND ALARM OFF-SITE VIA COMMUNICATOR	SEND TROUBLE SIGNAL OFF-SITE VIA COMMUNICATOR	SEND SUPERVISORY SIGNAL OFF-SITE VIA COMMUNICATOR	SEND RESTORE SIGNAL OFF-SITE VIA COMMUNICATOR	ACTIVATE AUDIBLE/VISIBLE SIGNALS	ACTIVATE WATERFLOW BELL	SHUT DOWN HVAC PANEL	ACTIVATE BATTERY BACK-UP	DEACTIVATE AUDIBLE SIGNALS	DEACTIVATE VISIBLE SIGNALS	RESET ALL TRIPPED MODULES	SYSTEM NORMAL
MANUAL PULL STATION	X	X										X	X					
SMOKE DETECTORS	X	X																
HEAT DETECTORS																		
FIRE SPRINKLER WATERFLOW SWITCH	X	X					X				X	X						
FIRE SPRINKLER SUPERVISORY SWITCH					X	X			X									
WIRING CONDITIONS																		
SIGNALING LINE CIRCUIT (SLC)																		
WIRE-TO-WIRE SHORT			X	X				X										
SINGLE OPEN			X	X				X										
SINGLE GROUND			X	X				X										
INITIATING DEVICE CIRCUIT (IDC)																		
WIRE-TO-WIRE SHORT	X	X					X				X							
SINGLE OPEN			X	X				X										
SINGLE GROUND			X	X				X										
NOTIFICATION APPLIANCE CIRCUIT (IDC)																		
WIRE-TO-WIRE SHORT			X	X				X										
SINGLE OPEN			X	X				X										
SINGLE GROUND			X	X				X										
LOSS OF 120VAC POWER			X	X				X										X
SIGNAL SILENCE										X								X
RESET FACU									X									X

GENERAL NOTES:

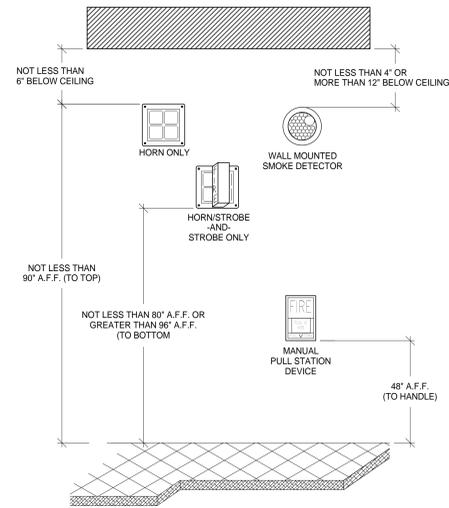
- ENTIRE INSTALLATION SHALL CONFORM TO APPLICABLE NATIONAL CODES INCLUDING NFPA, NEC, AND VA FACILITY QUALITY SERVICE MANUAL PER OFFICE OF CONSTRUCTION AND FACILITY MANAGEMENT.
- ALL THE DEVICES, WIRING AND INSTALLATION PRACTICE SHALL COMPLY WITH FIRE DETECTION AND ALARM SPECIFICATIONS SECTION 28.3100
- EXISTING AND NEW FIRE ALARM AND DETECTION SYSTEM SHALL BE COMMISSIONED TO ENSURE THAT SYSTEM IS IN FULL COMPLIANCE AFTER PROJECT COMPLETION.

RISER DIAGRAM NOTES:

- THIS RISER DIAGRAM INDICATES THE GENERAL ARRANGEMENT OF THE FIRE ALARM SYSTEM COMPONENTS THAT ARE PROVIDED UNDER THIS CONTRACT. SEE FLOOR PLAN FA-1.0 FOR LOCATION OF DEVICES. REMOTE POWER SUPPLY CIRCUIT LOADING SHALL BE DETERMINED BY CONTRACTOR. CONTRACTOR TO PRODUCE SHOP DRAWINGS DEPICTING WIRING OF ALL DEVICES INCLUDING RISER DIAGRAM, STAND BY BATTERY AND VOLTAGE DROP.
- NOTE THAT CONDUCTOR TYPES, QUANTITIES AND SIZES ARE NOT SHOWN. CONNECT FIRE ALARM SYSTEM DEVICES WITH TYPES, QUANTITIES AND SIZES OF CONDUCTORS AS DIRECTED BY THE SYSTEM SUPPLIER. VERIFY WIRING REQUIREMENTS WITH SYSTEM SUPPLIER PRIOR TO BID.
- INSTALL ALL SYSTEM CONDUCTORS IN CONDUIT SIZED FOR CONDUCTORS OF THE TYPE, QUANTITY AND SIZES AS DIRECTED BY THE SYSTEM SUPPLIER.
- PROVIDE FIRE ALARM SYSTEM PER SPECIFICATION SECTION 28-31-00 COMPLETE WITH JUNCTION BOXES, COVER PLATES, CONDUITS, SUPPORTS, END-OF-LINE DEVICES, POWER SUPPLIES, AUXILIARY RELAYS, CONDUCTORS, TESTING, ETC., ALL AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM.
- FIRE ALARM TERMINAL CABINET (FATC #1) IS TO BE INTERCONNECTED USING NFPA STYLE 7 WIRING.
- FIRE ALARM TERMINAL CABINET (FATC) TO BE INTERCONNECTED WITH (E) FACU USING NFPA STYLE 7 WIRING.
- ALL DEVICES SHALL BE FULLY ADDRESSABLE AND COMPATIBLE WITH EXISTING FIRE ALARM PANEL SECUTRON MODEL 2920.

NOTE:

SYMBOLS AND ABBREVIATIONS LISTED ARE FOR GENERAL USE. DISREGARD THOSE WHICH ARE NOT USED ON THE DRAWINGS.



NOTE: ALL DEVICES MAY NOT BE USED ON THIS PROJECT

TYP. ELEVATIONS FOR FIRE ALARM DEVICES DETAIL

Revisions:	Date
FINAL BID DOCUMENTS (14-251)	4/14/16
100% CONSTRUCTION DOCUMENTS (14-248)	01/22/16
100% DESIGN DEVELOPMENT (14-244)	10/23/15
50% DESIGN DEVELOPMENT (14-233)	08/21/15
100% SCHEMATIC DESIGN (14-185)	03/06/15

CONSULTANTS:	KEY PLAN

STAMP	ARCHITECT/ENGINEERS:

ARCHITECT/ENGINEERS:
ADVANCE DESIGN CONSULTANTS, INC. <small>998 PARK AVENUE SAN JOSE CALIFORNIA 95128 P: (408) 287-1881 F: (408)294-3186 www.adcengineers.com</small>

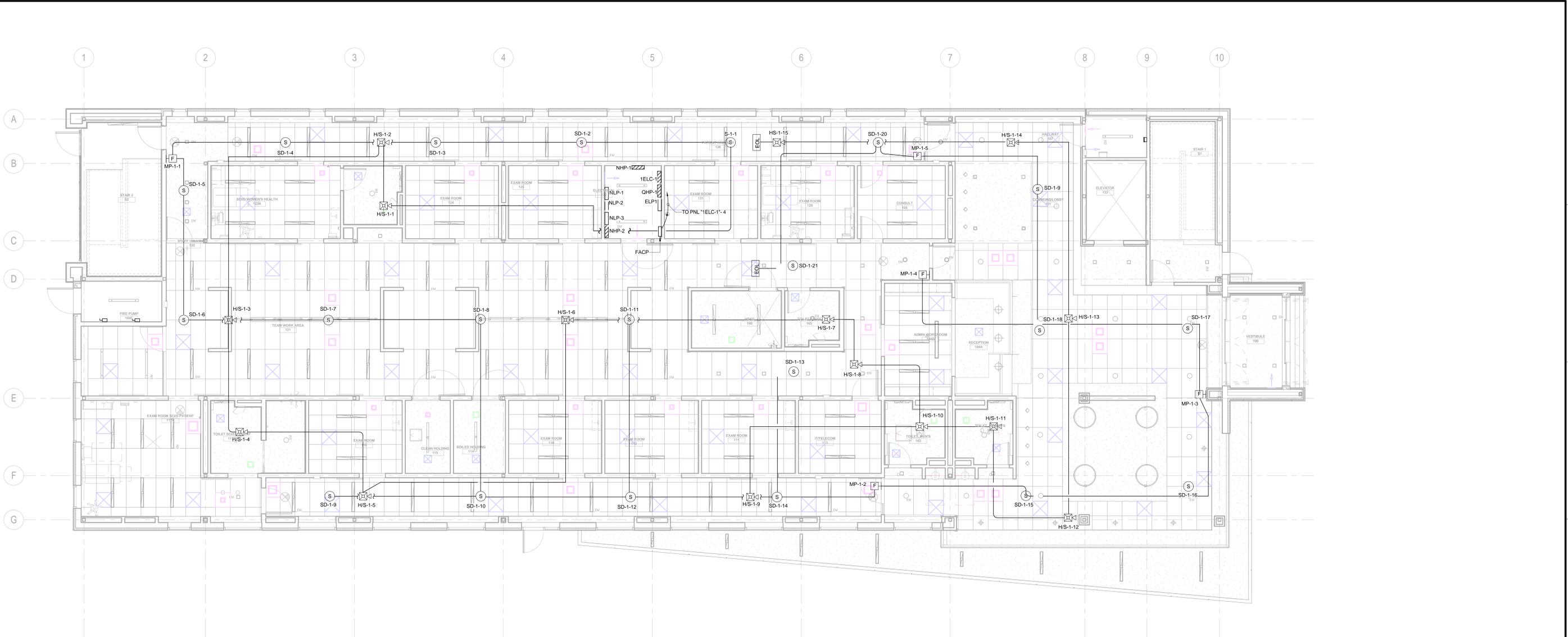
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Drawing Title:
FIRE ALARM AND DETECTION ABBREVIATIONS, SYMBOLS, EQUIP. SCHEDULE
Approved: Project Director

Project Title:
CONSTRUCT PRIMARY CARE SERVICES BLDG.
Location: 10535 HOSPITAL WAY, MATHER, CA

Project Number:
612-400
Building Number: 642
Drawing Number: FA-001

Office of Facilities Management
Department of Veterans Affairs



1 FIRST FLOOR FIRE ALARM PLAN
SCALE: 3/16" = 1'-0"

FINAL BID DOCUMENTS (14-251)	4/14/16
100% CONSTRUCTION DOCUMENTS (14-248)	01/22/16
100% DESIGN DEVELOPMENT (14-244)	10/23/15
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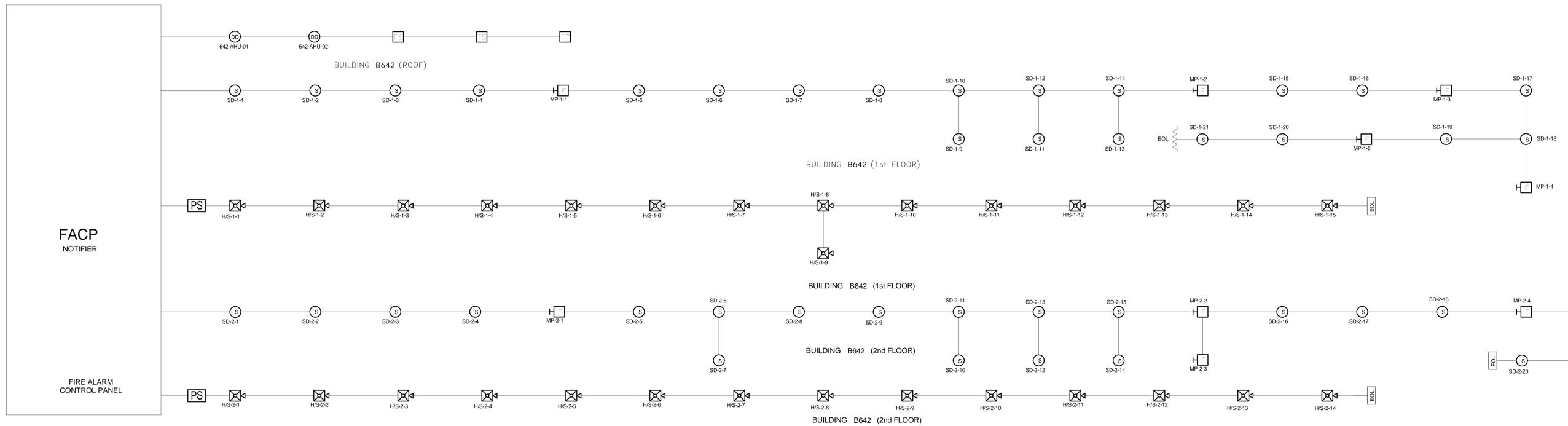
Drawing Title: FIRST FLOOR FIRE ALARM
Approved: Project Director

Project Title: CONSTRUCT PRIMARY CARE SERVICES BLDG.
Location: 10535 HOSPITAL WAY, MATHER, CA
Date: 4/14/16
Checked: P. LOPEZ
Drawn: J. AGUIRRE

Project Number: 612-400
Building Number: 642
Drawing Number: FA-101
Dwg. of

Office of Facilities Management

Department of Veterans Affairs

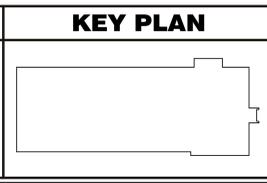


1 FIRE ALARM RISER DIAGRAM
SCALE: N.T.S.

Vertical scale markers on the left side of the drawing, ranging from 0 to 16 feet, with labels such as 'one inch = one foot', 'one half inch = one foot', etc.

Revisions:	Date
FINAL BID DOCUMENTS (14-251)	4/14/16
100% CONSTRUCTION DOCUMENTS (14-248)	01/22/16
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50% DESIGN DEVELOPMENT (14-233)	08/21/15
100% SCHEMATIC DESIGN (14-185)	03/06/15

CONSULTANTS:



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FDH 13-308-38

Drawing Title: FIRE ALARM RISER DIAGRAM
Approved: Project Director

Project Title: CONSTRUCT PRIMARY CARE SERVICES BLDG.
Location: 10535 HOSPITAL WAY, MATHER, CA
Date: 4/14/16
Checked: P. LOPEZ
Drawn: M. CUELLAR

Project Number: 612-400
Building Number: 642
Drawing Number: FA-601
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