

ABBREVIATIONS

ELECTRONIC SAFETY AND SECURITY ABBREVIATIONS

Table of abbreviations for electronic safety and security, including terms like 1PH, 1P, 2/C, 3/C, 3PH, 4/C, 4W, A/C UNIT, etc.

GENERAL NOTES

- 1 THE FIRST FLOOR DENTAL AREA WILL BE COMPLETELY DEMOLISHED BY PHASE AND COMPLETELY RENOVATED. REFER TO THE ARCHITECTURAL PHASING PLAN.
2 REFER TO THE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION REGARDING THE DEMOLITION AND RENOVATION.
3 NONDSTRUCTIVELY DEMOLISH THE FIRE ALARM SYSTEM IN THE PROJECT AREA PHASE TO THE EXISTING JUNCTION BOXES OUTSIDE THE PROJECT AREA...

APPLICABLE CODES

International Code Council, International Building Code (IBC) 2006 Edition
International Code Council, International Fire Code (IFC) 2006 Edition
NFPA 101-2009 Life Safety Code
NFPA 70-2008 National Electrical Code (NEC)...

EXISTING FIRE ALARM WIRING STANDARD

MAINTAIN THE FOLLOWING WIRING COLOR CODES INTO THE RENOVATION AREA.
VISUAL CIRCUIT #1 - BLACK & RED 14 GA STRANDED THHN
VISUAL CIRCUIT #2 - BROWN & ORG 14 GA STRANDED THHN
VISUAL CIRCUIT #3 - BLACK W/WHIT STRIPE & WHITE W/BLK STRIPE...

FIRE ALARM SYSTEM NOTES

- 1 THE FIRE ALARM SYSTEM AND ALL WIRING SHALL CONFORM TO ARTICLE 760 OF THE NATIONAL ELECTRIC CODE, NFPA 72, AND MANUFACTURERS REQUIREMENTS.
2 THE RENOVATION OF THE DENTAL TO AMBULATORY CARE AREA WILL REQUIRE INSTALLATION OF NEW FIRE ALARM SYSTEM DEVICES. THE NEW FIRE ALARM SYSTEM DEVICES WILL BE AN EXTENSION OF THE EXISTING BUILDING FIRE ALARM SYSTEM.
3 THE FIRE ALARM SYSTEM WILL BE INSTALLED IN PHASES PER THE AMBULATORY CARE REMODEL RENOVATION PHASING PLAN. REFER TO THE ARCHITECTURAL DRAWINGS.
4 THE SYSTEM WILL BE INSTALLED AS A MANUAL SYSTEM WITH SMOKE DETECTOR COVERAGE IN AREAS OPEN TO THE CORRIDOR AND AUTOMATIC ACTUATION BY THE SPRINKLER SYSTEM...

SHEET LIST

- 1-FA.1 FIRE ALARM SYSTEM SYMBOLS LEGEND, GENERAL NOTES & SHEET LIST
1-FA.2 RENOVATE DENTAL TO AMBULATORY CARE KEY PLAN (PHASE 2)
1-FA.3 RENOVATE DENTAL TO AMBULATORY CARE FLOOR PLAN (PHASE 2)
1-FA.4 INTERSTITIAL HVAC NEW FLOOR PLAN (PHASE 2)
1-FA.5 FIRE ALARM SYSTEM RISER DIAGRAM
1-FA.6 FIRE ALARM SYSTEM DETAILS
1-FA.7 FIRE ALARM SYSTEM WIRING DIAGRAM

SYMBOLS LEGEND

- FAC FIRE ALARM SYSTEM TERMINAL CABINET BOOSTER POWER SUPPLY FOR STROBE NACS
COMPUTER FIREWORKS GUI.
FIRE COMMAND CENTER - VOICE EVACUATION CONTROL
CEILING MOUNT ANALOG PHOTO SMOKE DETECTOR
DUCT MOUNT ANALOG PHOTO DUCT DETECTOR
INTELLIGENT MANUAL FIRE ALARM BOX (MANUAL PULL STATION), REFER TO MOUNTING HEIGHT DETAIL
CEILING MOUNT STROBE - CANDELA VALUE AS NOTED
CEILING MOUNT SPEAKER STROBE - CANDELA VALUE AS NOTED
WALL MOUNT SPEAKER STROBE - CANDELA VALUE AS NOTED
CEILING MOUNT FIRE ALARM SYSTEM SPEAKER
INTELLIGENT CONTROL RELAY
INTELLIGENT CONTROL RELAY WITH MULTI-VOLTAGE BUFFER RELAY
FIRE ALARM SUPERVISORY RELAY
WATER FLOW SWITCH BY SPRINKLER CONTRACTOR FIRE ALARM MONITOR MODULE BY FIRE ALARM CONTRACTOR
WATER FLOW TAMPER SWITCH BY SPRINKLER CONTRACTOR, FIRE ALARM MONITOR MODULE BY BY FIRE ALARM CONTRACTOR
STROBE CIRCUIT - DEVICE NUMBER
SPEAKER CIRCUIT - DEVICE NUMBER
NEW FIRE ALARM JUNCTION BOX
EXISTING FIRE ALARM JUNCTION BOX
POINT OF CONNECTION
3/4" EMT CONDUIT MIN. CROSS LINES ON CONDUIT RUNS INDICATE NUMBER OF #12 CURRENT CARRYING CONDUCTORS CONTAINED THERE IN. TWO #12 AND ONE #12 GROUND WIRE ARE INDICATED WHEN CROSS LINES ARE NOT SHOWN...

SEQUENCE OF OPERATIONS

Table with columns for INPUT DEVICE, DUCT SMOKE DETECTOR, AREA SMOKE DETECTOR, DOOR RELEASE SMOKE DETECTOR, ELEVATOR SMOKE DETECTOR, ELEC./BLDG 2 HEAT DETECTOR, MANUAL PULL STATION, ELEVATOR MACHINE ROOM HEAT DETECTOR, SPRINKLER WATERFLOW/PRESSURE SWITCH, WATER CONTROL TAMPER SWITCH, FIRE PUMP (ANY ALARM REQUIRED BY NFPA 20), HIGH/LOW PRESSURE DRY-PIPE SPRINKLER SYSTEM, KITCHEN HOOD SUPPRESSION SYSTEM, GAS EXTINGUISHING SYSTEM, DRY PIPE VALVE ROOM TEMPERATURE ALARM, and OUTPUT.

T M A D TAYLOR & GAINES logo and contact information: 100 South Anaheim Boulevard, Suite 150, Anaheim, California 92805.

gkkworks logo and contact information: 1775 Hancock Street, Suite 150, San Diego, CA 92110. Project #40086.

Renovate Dental to Ambulatory Care (Phase 2)

Fire Alarm System Symbols & Legends

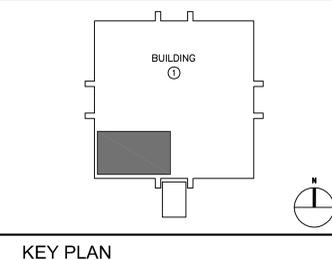
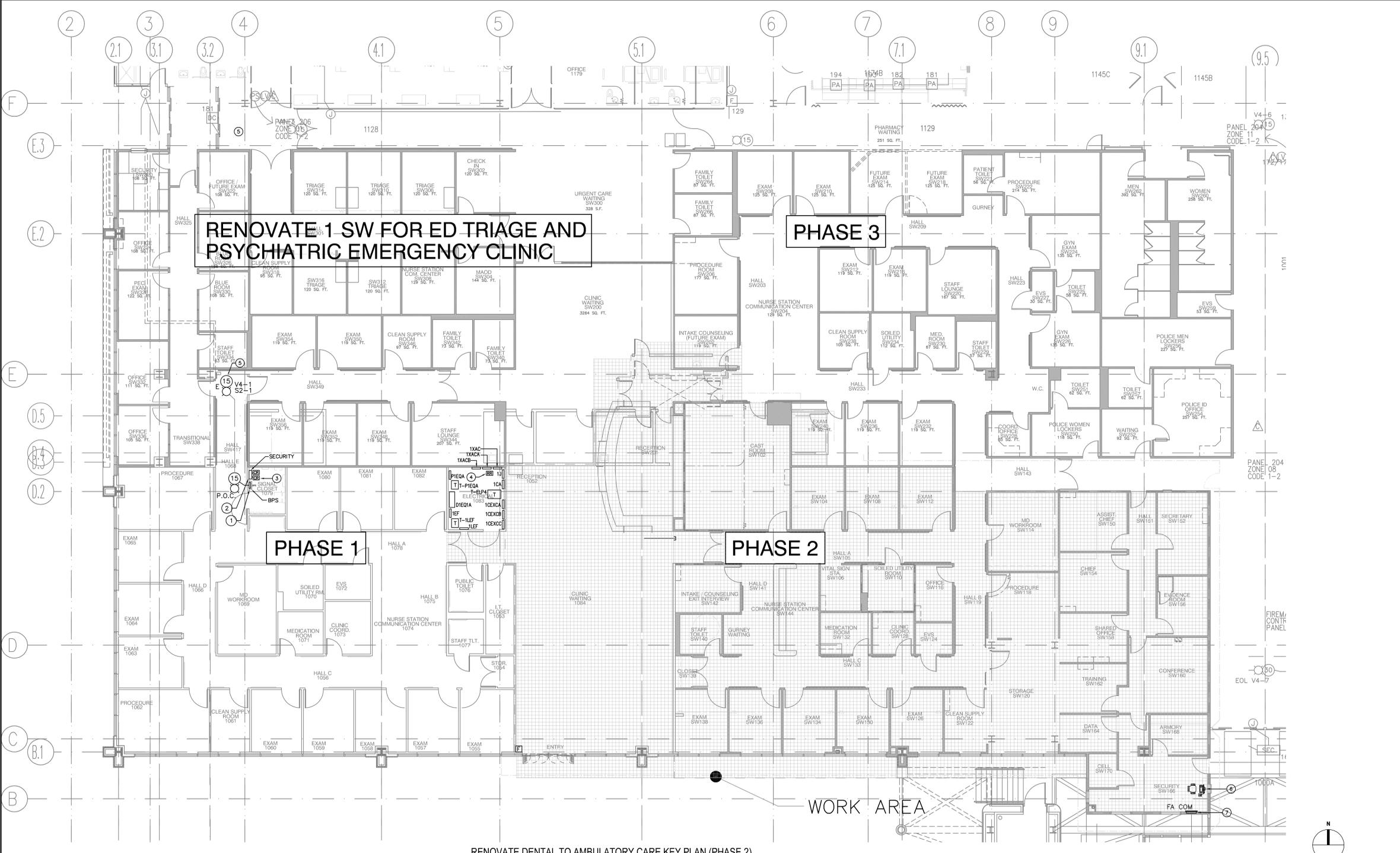


Table with project details: Department of Veterans Affairs, 3350 LaJolla Village Dr., San Diego, California 92161. Includes drawing title '1-FA.1' and sheet number '95 OF 117'.

GENERAL NOTES

- "WARNING" ASBESTOS PRESENT IN INTERSTITIAL AREAS ON FIRE PROOFING ON STRUCTURAL STEEL TRUSSES AND OVERSPRAY ON 4" I-BEAMS AND ON CONCRETE DECKS. CONTRACTOR TO WEAR RESPIRATOR AND PROTECTIVE COVERALLS IAW LOCAL, STATE & FEDERAL REGULATIONS.
- REMOVE ALL ELECTRICAL FIXTURES, DEVICES, JUNCTION BOXES, WIRING AND CONDUIT AS REQUIRED TO INSTALL NEW WORK. ALL ELECTRIC WORK SCHEDULED TO BE REMOVED SHALL BE REMOVED IN ITS ENTIRETY. WIRING AND CONDUIT SHALL NOT BE ABANDONED IN PLACE BUT SHALL BE REMOVED BACK TO A JUNCTION BOX, PANEL OR CIRCUIT WHICH IS TO REMAIN IN SERVICE.
- NURSE CALL, PUBLIC ADDRESS AND FIRE ALARM EQUIPMENT SHALL BE NONDESTRUCTIVELY REMOVED BEFORE DEMOLITION AND DELIVERED TO THE ELECTRONIC SHOP. EXISTING CABLE, CONDUIT AND OTHERS SYSTEMS EQUIPMENT NOT IDENTIFIED AS "VA RETAINED" SHALL BE DEMOLISHED AND REMOVED FROM THE PREMISES BY THE CONTRACTOR.
- MAINTAIN CIRCUIT CONTINUITY WHERE APPROPRIATE.
- ALL CONDUIT TO BE RUN PERPENDICULAR OR PARALLEL TO BUILDING LINES. NO CONDUIT IS TO BE INSTALLED IN AN ANGULAR MANNER.
- FLEX CONDUIT MAY BE USED TO 6'-0" TO MAKE FINAL EQUIPMENT CONNECTIONS. ALL OTHER CONDUIT SHALL BE EMT OR RIGID AS SPECIFIED, 3/4" MINIMUM.
- ALL J-BOX, SWITCH PLATE, OUTLET COVER(S) SHALL BE ENGRAVED BLACK 1/4" MIN. TO IDENTIFY PANEL & CIRCUIT(S) USED. EMERGENCY PANEL & CIRCUIT(S) TO BE ENGRAVED RED.
- ALL CLASS "B" WIRING SHALL BE TIE WRAPPED EVERY 10' ON CENTER. THIS WIRING SHALL BE IDENTIFY EVERY 50' ON CENTER.
- UPDATE ALL ELECTRIC PANEL INDEX CARDS TO REFLECT THE NEW ADDITIONS OR CHANGES.
- INSTALL THE NEW EQUIPMENT PER THE ARCHITECTURAL PHASING SCHEDULE. COORDINATE WITH THE ARCHITECTURAL DRAWINGS AND PHASING PLAN.
- THE FIRE ALARM SYSTEM DEVICES TO BE INSTALLED FOR THE AMBULATORY CARE REMODEL PROJECT SHALL BE AN EXTENSION OF THE EXISTING BUILDING 1 FIRE ALARM SYSTEM.
- THE EXISTING BOOSTER POWER SUPPLY INSTALLED DURING PHASE 1 SHALL PROVIDE VISUAL NOTIFICATION APPLIANCE CIRCUITS FOR DEVICES TO BE INSTALLED DURING RENOVATE DENTAL TO AMBULATORY CARE (PHASE 2).
- INSTALL AREA SMOKE DETECTORS TO PROTECT SPACE OPEN TO THE CORRIDOR.
- CLOSE AUTOMATIC FIRE/SMOKE DAMPERS UPON DETECTION OF SMOKE TO PROVIDE CONTROL OF SMOKE AND PROVIDE HORIZONTAL EXISTING.
- ADJUST SPEAKER VOLUME SO THAT AUDIBLE VOICE MESSAGES ARE HEARD CLEARLY AND ARE INTELIGIBLE PER THE REQUIREMENTS OF NFPA 72.7.4.1.4.
- AUDIBLE/ VISUAL AND VISUAL NOTIFICATION APPLIANCES SHALL BE CEILING MOUNTED TO MATCH THE EXISTING IN THE FACILITIES.
- USE EXISTING JUNCTION BOXES AND CONDUIT PATHWAY TO EXTEND THE REQUIRED EXISTING CIRCUITS INTO THE PROJECT AREA AND TO THE NEW FATC.
- ALL FIRE ALARM SYSTEM CONDUIT AND JUNCTION BOX COVERS SHALL BE PAINTED RED PER THE REQUIREMENTS OF THE SPECIFICATIONS.
- USE THE SPEAKER CIRCUIT PROVIDED DURING PHASE 1 FOR THE NEW PROJECT AREA. USE EXISTING CONDUIT TO ROUTE THE NEW CIRCUIT TO THE PROJECT AREA.
- THE EXISTING FIRE ALARM SYSTEM IS AN EST-3 FIRE ALARM SYSTEM WHICH IS UNDER WARRANTY SERVICE BY DETECTION LOGIC PH: 760-233-9787.
- FIELD VERIFY ALL EXISTING FIELD CONDITIONS BEFORE BID, DEMOLITION AND RECONSTRUCTION. COORDINATE ALL RESULTING FINDINGS ON THE REQUIRED FIRE ALARM SHOP DRAWINGS.
- REFER TO THE FIRE ALARM SYSTEM INTERSTITIAL PLAN FOR INFORMATION REGARDING THE MONITORING AND CONTROL OF HVAC EQUIPMENT FOR SMOKE CONTROL. COORDINATE WITH THE MECHANICAL CONTRACT DRAWINGS. MAKE ADJUSTMENT FOR MECHANICAL SYSTEM PHASING AND ACTUAL FIELD CONDITIONS, AS NECESSARY.



RENOVATE DENTAL TO AMBULATORY CARE KEY PLAN (PHASE 2)

RENOVATE DENTAL TO AMBULATORY CARE (PHASE 2) PHASING AND DEMOLITION NOTES

- ALL EXISTING FIRE ALARM SYSTEM DEVICES SHALL BE DEMOLISHED AND REPLACE WITH NEW DEVICES ACCORDING TO THE ARCHITECTURAL PHASING PLAN. THE REMODEL WILL BE CONDUCTED DURING ALL PHASES, PHASES 1, RENOVATE DENTAL TO AMBULATORY CARE (PHASE 2), RENOVATE DENTAL TO AMBULATORY CARE (PHASE 3) & RENOVATE 1 SW FOR ED TRIAGE AND PSYCHIATRIC EMERGENCY CLINIC. REFER TO THE KEY PLAN ABOVE.
- DEMOLISH THE FIRE ALARM SYSTEM TO THE LAST DEVICE OR JUNCTION BOX AT THE BOUNDARY OF THE APPLICABLE PROJECT PHASE. TEMPORARILY REROUTE CIRCUITS FOR DOWNSTREAM DEVICES, AS NECESSARY, TO MAINTAIN OPERATION OF DOWN STREAM DEVICES UNTIL DEMOLITION OF THOSE PHASES. USE PERIMETER CORRIDOR OR INTERSTITIAL JUNCTION BOXES OF THE EXISTING FIRE ALARM CONDUIT SYSTEM AS NECESSARY. THE FIRE ALARM CONTRACTOR SHALL, BY FIELD INSPECTION, DETERMINE WHICH CONDUITS OR CIRCUITS SHALL BE REROUTED AND EXECUTE AS NECESSARY GUIDED BY BEST PRACTICES.
- DURING THE RENOVATE DENTAL TO AMBULATORY CARE (PHASE 2) REMODEL, INSTALL NEW CONDUIT/CABLE TERMINATIONS AND EQUIPMENT, AS NECESSARY, TO THE SIGNAL CLOSET 1079 FOR OPERATION OF THE FIRE ALARM SYSTEM DEVICES TO BE INSTALLED DURING THE PHASED REMODEL.
- DURING RENOVATE DENTAL TO AMBULATORY CARE (PHASE 2) EXTEND AND INTERCEPT THE EXISTING SLC AND NAC CIRCUITS AS REQUIRED TO EXTEND THE NECESSARY FEED CIRCUITS TO THE EXISTING HOSPITAL FIRE ALARM SYSTEM FOR OPERATION OF NEW FIRE ALARM SYSTEM DEVICES DURING THE REMODEL SO ALL ARE OPERABLE BY THE COMPLETION OF RENOVATE DENTAL TO AMBULATORY CARE (PHASE 2). PROVIDE TEMPORARY END OF LINE DEVICES AT THE LAST DEVICE IN THE PHASE AS NECESSARY.
- INTERCEPT EXISTING FIRE ALARM CIRCUITS PROVIDED DURING PHASE 1. EXTEND THE EXISTING SLC INTO THE PHASE 2 PROJECT AREA. USE CONDUIT INSTALLED DURING PHASE 1 TO EXTEND NEW NOTIFICATION APPLIANCE CIRCUITS FROM THE SIGNAL CLOSET TO THE NEW RENOVATE DENTAL TO AMBULATORY CARE (PHASE 2) PROJECT AREA.
- WHEN THE NEW SECURITY ROOM HAS BEEN CONSTRUCTED AND BECOMES OPERATIONAL THE GUI AND FIRE COMMAND CENTER SHALL BE RELOCATED FROM THE EXISTING BADGING/DISPATCH TO THE NEW LOCATION. COORDINATE CUT OVER WITH THE VA POLICE AND VA ENGINEERING STAFF.
- MAKE NECESSARY FIELD ADJUSTMENTS FOR CONDITIONS THAT ARE EXISTING OR CONDITIONS WHICH CHANGE DUE TO PHASING.

LEGEND

- LINE TYPES
DEMO = DASH EXIST = SOLID NEW = BOLD/FILLED
- FIRE ALARM SYSTEM**
- FATC FIRE ALARM SYSTEM TERMINAL CABINET
 - BPS BOOSTER POWER SUPPLY FOR STROBE NACS
 - COMPUTER FIREWORKS GUI
 - FIRE COMMAND CENTER
 - CEILING MOUNT ANALOG PHOTO SMOKE DETECTOR
 - DUCT MOUNT ANALOG PHOTO DUCT DETECTOR
 - INTELLIGENT MANUAL FIRE ALARM BOX (MANUAL PULL STATION), REFER TO MOUNTING HEIGHT DETAIL
 - CEILING MOUNT STROBE - CANDELA VALUE AS NOTED
 - CEILING MOUNT SPEAKER STROBE - CANDELA VALUE AS NOTED
 - CEILING MOUNT FIRE ALARM SYSTEM SPEAKER
 - MAGNETIC DOOR HOLDER
 - INTELLIGENT CONTROL RELAY
 - INTELLIGENT CONTROL RELAY WITH MULTI-VOLTAGE BUFFER RELAY

KEY NOTES

- EXISTING BOOSTER POWER SUPPLY AND TERMINAL CABINET INSTALLED DURING PHASE 1. USE EXISTING SPARE NAC CIRCUITS FOR RENOVATE DENTAL TO AMBULATORY CARE (PHASE 2) DEVICES.
- EXISTING HIRSCH ACCESS CONTROLLERS.
- EXISTING ACCESS CONTROL DOOR RELEASE RELAYS INSTALLED DURING PHASE 1.
- EXISTING DAMPER CONTROL RELAY INSTALLED DURING PHASE 1.
- EXISTING SPEAKER/STROBE TO BE MAINTAINED UNTIL RENOVATE 1 SW FOR ED TRIAGE AND PSYCHIATRIC EMERGENCY CLINIC.
- RELOCATE THE EXISTING EST FIRE WORKS GUI. WHEN THE NEW SECURITY ROOM IS OPERATIONAL.
- RELOCATE THE EXISTING FIRE COMMAND CENTER WHEN THE NEW SECURITY ROOM IS OPERATIONAL.

KEY NOTES

- EXISTING BOOSTER POWER SUPPLY AND TERMINAL CABINET INSTALLED DURING PHASE 1. USE EXISTING SPARE NAC CIRCUITS FOR RENOVATE DENTAL TO AMBULATORY CARE (PHASE 2) DEVICES.
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- RELOCATE THE EXISTING EST FIRE WORKS GUI. WHEN THE NEW SECURITY ROOM IS OPERATIONAL.
- RELOCATE THE EXISTING FIRE COMMAND CENTER WHEN THE NEW SECURITY ROOM IS OPERATIONAL.

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STRUCTURAL
MECHANICAL
ELECTRICAL
CIVIL

architecture and construction services

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Project #40086

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Renovate Dental to Ambulatory Care (Phase 2)

Project Area Key Plan

BUILDING NO. 1

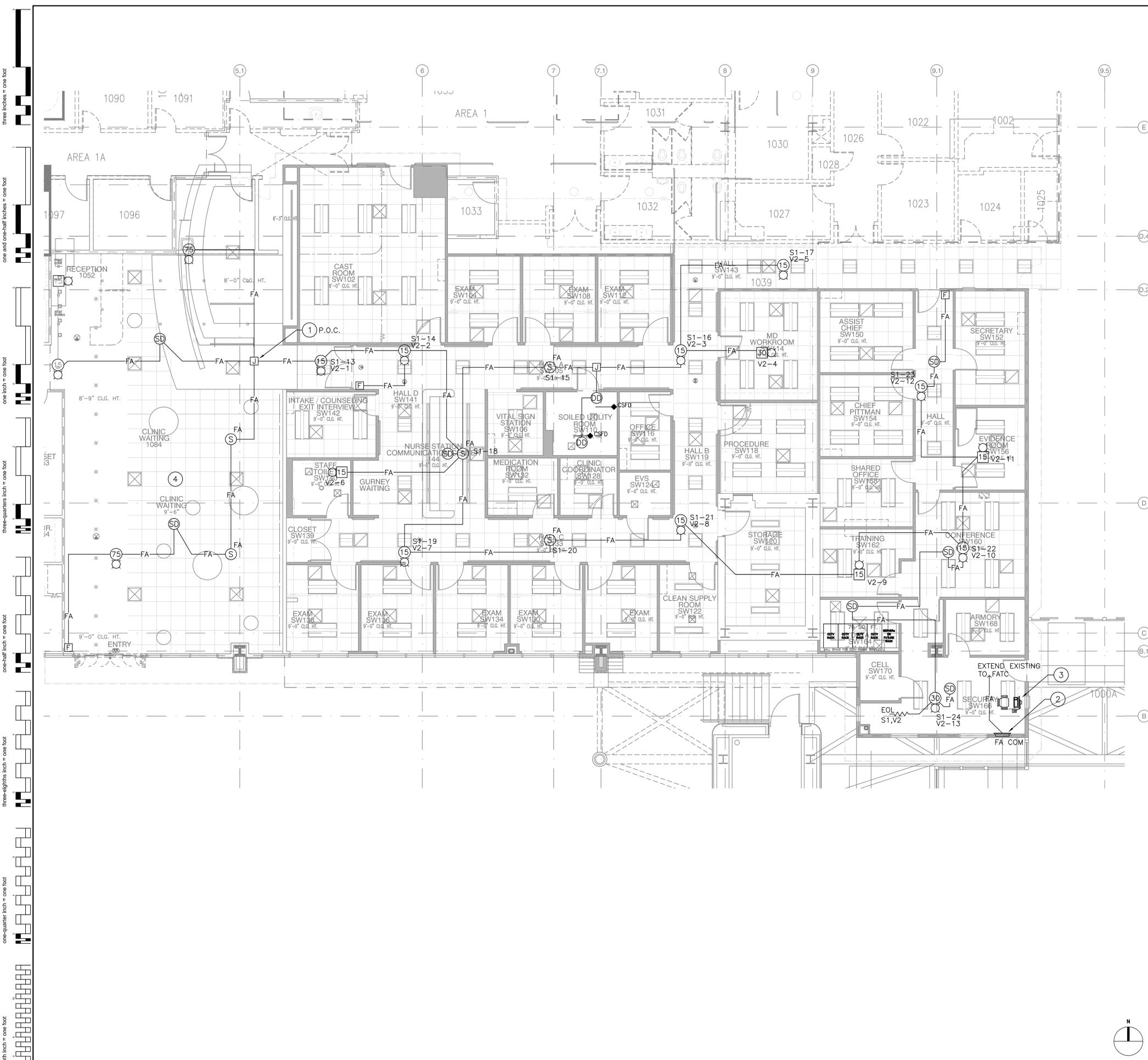
Department of Veterans Affairs
3350 LaJolla Village Dr.
San Diego, California 92161

VA San Diego Healthcare System
Desert Pacific Healthcare Network

USING SERVICE: DATE: JUNE 15, 2012
FACILITIES MGMT: CHECKED: D. KARLLO
CHIEF OF STAFF: DRAWN: M.T
CHIEF OF OPERATIONS: SCALE: AS NOTED
DRAWING No. SD-2313
SHEET No. 96 OF 117
DIRECTOR: PROJ. No. 664-12-118

KEY PLAN

1-FA.2



LEGEND	
LINE TYPES DEMO = DASH EXIST = SOLID NEW = BOLD/FILLED	
FIRE ALARM SYSTEM	
FATC	FIRE ALARM SYSTEM TERMINAL CABINET
BPS	BOOSTER POWER SUPPLY FOR STROBE NACS
CF	COMPUTER FIREWORKS GUI
FA COM	FIRE COMMAND CENTER
SM	CEILING MOUNT ANALOG PHOTO SMOKE DETECTOR
DM	DUCT MOUNT ANALOG PHOTO DUCT DETECTOR
IM	INTELLIGENT MANUAL FIRE ALARM BOX (MANUAL PULL STATION), REFER TO MOUNTING HEIGHT DETAIL
CS	CEILING MOUNT STROBE - CANDELA VALUE AS NOTED
CS*	CEILING MOUNT SPEAKER STROBE - CANDELA VALUE AS NOTED
FS	CEILING MOUNT FIRE ALARM SYSTEM SPEAKER
MDH	MAGNETIC DOOR HOLDER
ICR	INTELLIGENT CONTROL RELAY
ICR*	INTELLIGENT CONTROL RELAY WITH MULTI-VOLTAGE BUFFER RELAY
SR	FIRE ALARM SUPERVISORY RELAY
WFS	WATER FLOW SWITCH BY SPRINKLER CONTRACTOR FIRE ALARM MONITOR MODULE BY FIRE ALARM CONTRACTOR
WFT	WATER FLOW TAMPER SWITCH BY SPRINKLER CONTRACTOR, FIRE ALARM MONITOR MODULE BY FIRE ALARM CONTRACTOR
SC	STROBE CIRCUIT - DEVICE NUMBER
SS	SPEAKER CIRCUIT - DEVICE NUMBER
J	NEW FIRE ALARM JUNCTION BOX
EJ	EXISTING FIRE ALARM JUNCTION BOX
P.O.C.	POINT OF CONNECTION
3/4"	3/4" EMT CONDUIT MIN.
FA	3/4" EMT FIRE ALARM CONDUIT
CSFD	AUTOMATIC FIRE/SMOKE DAMPER, BY MECHANICAL CONTRACTOR.

- ### GENERAL NOTES
- "WARNING" ASBESTOS PRESENT IN INTERSTITIAL AREAS ON FIRE PROOFING ON STRUCTURAL STEEL TRUSSES AND OVERSPRAY ON 4" I-BEAMS, AND ON CONCRETE DECKS. CONTRACTOR TO WEAR RESPIRATOR AND PROTECTIVE COVERALLS IAW LOCAL, STATE & FEDERAL REGULATIONS.
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 - INSTALL THE NEW EQUIPMENT PER THE ARCHITECTURAL PHASING SCHEDULE. COORDINATE WITH THE ARCHITECTURAL DRAWINGS AND PHASING PLAN.
 - THE FIRE ALARM SYSTEM DEVICES TO BE INSTALLED FOR THE AMBULATORY CARE REMODEL PROJECT SHALL BE AN EXTENSION OF THE EXISTING BUILDING 1 FIRE ALARM SYSTEM.
 - NEW VISUAL NOTIFICATION APPLIANCES SHALL BE CONNECTED TO THE EXISTING BOOSTER POWER SUPPLY PROVIDED DURING PHASE 1.
 - INSTALL AREA SMOKE DETECTORS TO PROTECT SPACE OPEN TO THE CORRIDOR.
 - CLOSE AUTOMATIC FIRE/SMOKE DAMPERS UPON DETECTION OF SMOKE TO PROVIDE CONTROL OF SMOKE AND PROVIDE HORIZONTAL EXITING.
 - ADJUST SPEAKER VOLUME SO THAT AUDIBLE VOICE MESSAGES ARE HEARD CLEARLY AND ARE INTELLIGIBLE PER THE REQUIREMENTS OF NFPA 72.7.4.1.4.
 - AUDIBLE/ VISUAL AND VISUAL NOTIFICATION APPLIANCES SHALL BE CEILING MOUNTED TO MATCH THE EXISTING IN THE FACILITIES.
 - DRY CONTACTS PROVIDED DURING PHASE 1 SHALL RELEASE NEW ACCESS CONTROL DOORS DURING GENERAL ALARM.
 - ALL FIRE ALARM SYSTEM CONDUIT AND JUNCTION BOX COVERS SHALL BE PAINTED RED PER THE REQUIREMENTS OF THE SPECIFICATIONS.
 - WHEN THE NEW SECURITY ROOM IS CONSTRUCTED AND BECOMES OPERATIONAL RELOCATE THE EXISTING GUI AND FIRE COMMAND CENTER. PREWIRE AS NECESSARY. COORDINATE RELOCATION AND CUT OVER WITH THE VA POLICE AND VA ENGINEERING STAFF.
 - THE EXISTING FIRE ALARM SYSTEM IS AN EST-3 FIRE ALARM SYSTEM WHICH IS UNDER WARRANTY SERVICE BY DETECTION LOGIC PH: 760-233-9787.

- ### KEY NOTES
- CONNECT THE NEW RENOVATE DENTAL TO AMBULATORY CARE (PHASE 2) FEED CONDUIT TO THE EXISTING JUNCTION BOX INSTALLED FOR THE P.O.C. DURING PHASE 1. CONNECT NEW SLC WIRING TO THE EXISTING SLC. INSTALL NEW VISUAL NOTIFICATION APPLIANCE WIRING TO THE NEW BOOSTER POWER SUPPLY INSTALLED DURING PHASE 1. INSTALL EXTENSIONS OF THE EXISTING SPEAKER CIRCUIT INTO THE RENOVATE DENTAL TO AMBULATORY CARE (PHASE 2) AREA.
 - RELOCATE AND REINSTALL THE EXISTING FIRE COMMAND CENTER FROM THE EXISTING LOCATION. EXTEND WIRING AS NECESSARY.
 - RELOCATE AND REINSTALL THE EXISTING GUI FROM THE EXISTING BADGING/DISPATCH TO THE NEW SECURITY ROOM. EXTEND WIRING AS NECESSARY.
 - REMOVE THE PHASE 1 FIRE ALARM DEVICES AND REINSTALL WHEN THE NEW CEILING IS INSTALLED DURING RENOVATE DENTAL TO AMBULATORY CARE (PHASE 2).

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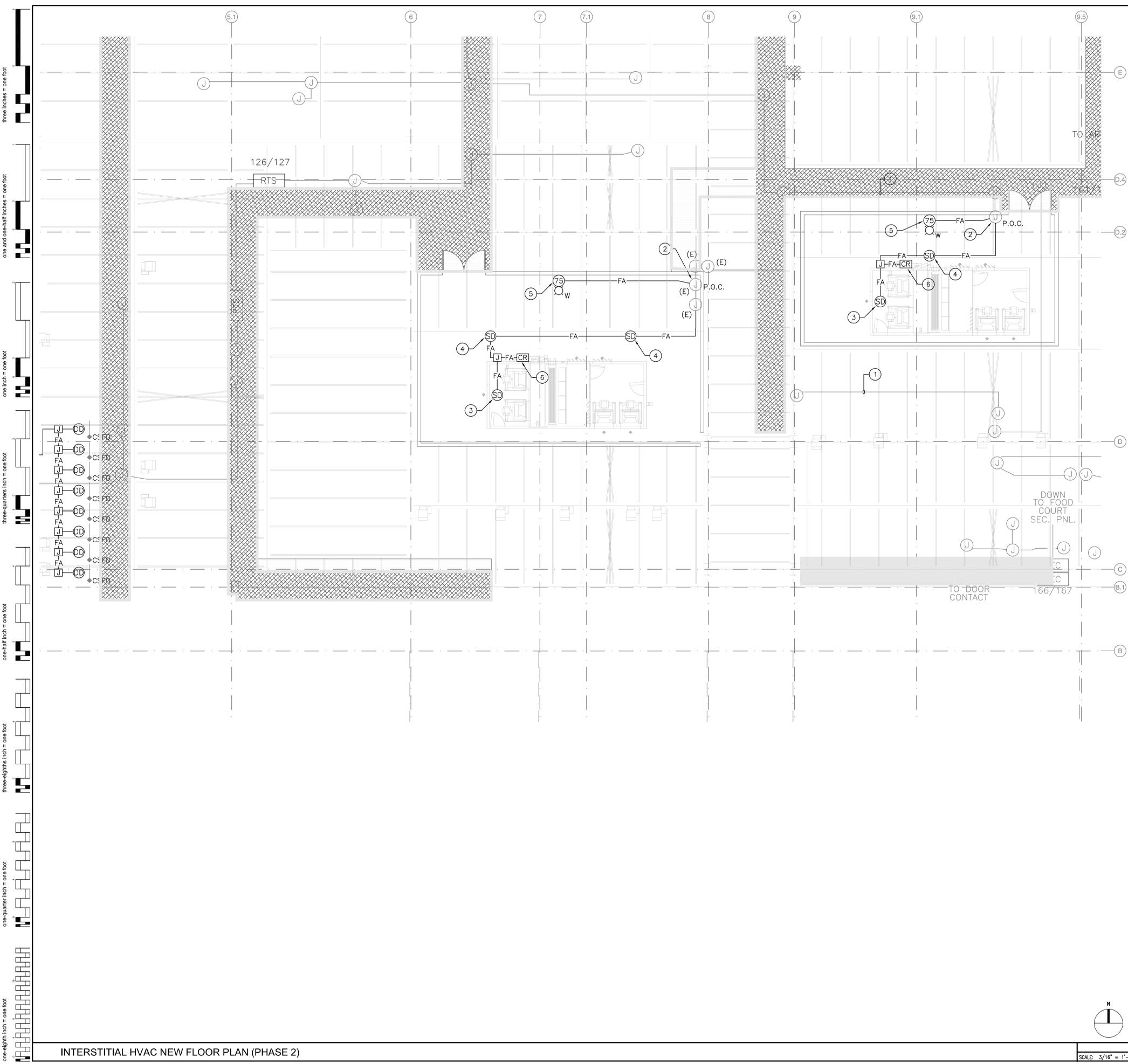
• STRUCTURAL
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 • CIVIL

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 architecture and construction services
 Project #40086
 1775 Hancock Street, Suite 150, San Diego, CA 92110
 619.398.0215 • 619.814.1249 fax

Renovate Dental to Ambulatory Care (Phase 2)

Fire Alarm Floor Plan (Phase 2)		BUILDING NO. 1	
Department of Veterans Affairs 3350 LaJolla Village Dr. San Diego, California 92161		VA San Diego Healthcare System Desert Pacific Healthcare Network	
USING SERVICE:	DATE: JUNE 15, 2012	CHECKED: D. KARLLO	
FACILITIES MGMT:	DRAWN: M.T	SCALE: AS NOTED	
CHIEF OF STAFF:	DRAWING No. SD-2313	DRAWING No. 1-FA.3	
CHIEF OF OPERATIONS:	SHEET No. 97 OF 117	PROJ. No. 664-12-118	
DIRECTOR:			

KEY PLAN



LEGEND	
LINE TYPES DEMO = DASH EXIST = SOLID NEW = BOLD/FILLED	
FIRE ALARM SYSTEM	
FA-CR	NEW FIRE ALARM SYSTEM TERMINAL CABINET
FA-PS	BOOSTER POWER SUPPLY FOR STROBE NACS
FA-COM	EXISTING COMPUTER FIREWORKS GUI
FA-COM	EXISTING FIRE COMMAND CENTER
SD	CEILING MOUNT ANALOG PHOTO SMOKE DETECTOR
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ST	CEILING MOUNT STROBE - CANDELA VALUE AS NOTED
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SA	CEILING MOUNT FIRE ALARM SYSTEM SPEAKER
MD	MAGNETIC DOOR HOLDER
ICR	INTELLIGENT CONTROL RELAY
ICR	INTELLIGENT CONTROL RELAY WITH MULTI-VOLTAGE BUFFER RELAY
SR	FIRE ALARM SUPERVISORY RELAY
WF	WATER FLOW SWITCH BY SPRINKLER CONTRACTOR
WF	FIRE ALARM MONITOR MODULE BY FIRE ALARM CONTRACTOR
WT	WATER FLOW TAMPER SWITCH BY SPRINKLER CONTRACTOR
WT	FIRE ALARM MONITOR MODULE BY FIRE ALARM CONTRACTOR
VF	STROBE CIRCUIT - DEVICE NUMBER
S	SPEAKER CIRCUIT - DEVICE NUMBER
J	NEW FIRE ALARM JUNCTION BOX
J	EXISTING FIRE ALARM JUNCTION BOX
P.O.C. POINT OF CONNECTION	
---	3/4" EMT CONDUIT MIN. CROSS LINES ON CONDUIT RUNS INDICATE NUMBER OF #12 CURRENT CARRYING CONDUCTORS CONTAINED THERE IN. TWO #12 AND ONE #12 GROUND WIRE ARE INDICATED WHEN CROSS LINES ARE NOT SHOWN. NUMERALS ADJACENT TO CROSS LINES ON CONDUIT RUNS INDICATED SIZE OF CONDUCTORS IN LIEU OF #12. ALL CONDUITS SHALL CONTAIN ONE GROUND WIRE SIZED PER N.E.C. TABLE 250-95, BUT NOT SMALLER THAN #12.
-FA-	3/4" EMT FIRE ALARM CONDUIT
CD	AUTOMATIC FIRE/SMOKE DAMPER, BY MECHANICAL CONTRACTOR.

- ### GENERAL NOTES
- "WARNING" ASBESTOS PRESENT IN INTERSTITIAL AREAS ON FIRE PROOFING ON STRUCTURAL STEEL TRUSSES AND OVERSPRAY ON 4" I-BEAMS, AND ON CONCRETE DECKS. CONTRACTOR TO WEAR RESPIRATOR AND PROTECTIVE COVERALLS IAW LOCAL, STATE & FEDERAL REGULATIONS.
 - REMOVE ALL ELECTRICAL FIXTURES, DEVICES, JUNCTION BOXES, WIRING AND CONDUIT AS REQUIRED TO INSTALL NEW WORK. ALL ELECTRIC WORK SCHEDULED TO BE REMOVED SHALL BE REMOVED IN ITS ENTIRETY. WIRING AND CONDUIT SHALL NOT BE ABANDONED IN PLACE BUT SHALL BE REMOVED BACK TO A JUNCTION BOX, PANEL OR CIRCUIT WHICH IS TO REMAIN IN SERVICE.
 - NURSE CALL, PUBLIC ADDRESS AND FIRE ALARM EQUIPMENT SHALL BE NONDESTRUCTIVELY REMOVED BEFORE DEMOLITION AND DELIVERED TO THE ELECTRONIC SHOP. EXISTING CABLE, CONDUIT AND OTHERS SYSTEMS EQUIPMENT NOT IDENTIFIED AS "VA RETAINED" SHALL BE DEMOLISHED AND REMOVED FROM THE PREMISES BY THE CONTRACTOR.
 - MAINTAIN CIRCUIT CONTINUITY WHERE APPROPRIATE.
 - ALL CONDUIT TO BE RUN PERPENDICULAR OR PARALLEL TO BUILDING LINES. NO CONDUIT IS TO BE INSTALLED IN AN ANGULAR MANNER.
 - FLEX CONDUIT MAY BE USED TO 6'-0" TO MAKE FINAL EQUIPMENT CONNECTIONS. ALL OTHER CONDUIT SHALL BE EMT OR RIGID AS SPECIFIED, 3/4" MINIMUM.
 - ALL J-BOX, SWITCH PLATE, OUTLET COVER(S) SHALL BE ENGRAVED BLACK 1/4" MIN. TO IDENTIFY PANEL & CIRCUIT(S) USED. EMERGENCY PANEL & CIRCUIT(S) TO BE ENGRAVED RED.
 - ALL CLASS "B" WRING SHALL BE TIE WRAPPED EVERY 10' ON CENTER. THIS WRING SHALL BE IDENTIFY EVERY 50' ON CENTER.
 - UPDATE ALL ELECTRIC PANEL INDEX CARDS TO REFLECT THE NEW ADDITIONS OR CHANGES.
 - INSTALL THE NEW EQUIPMENT PER THE ARCHITECTURAL PHASING SCHEDULE. COORDINATE WITH THE ARCHITECTURAL DRAWINGS AND PHASING PLAN.
 - THE FIRE ALARM SYSTEM DEVICES TO BE INSTALLED FOR THE AMBULATORY CARE AREA REMODEL PROJECT SHALL BE AN EXTENSION OF THE EXISTING BUILDING 1 FIRE ALARM SYSTEM.
 - CONNECT THE NEW INTERSTITIAL SPEAKER/STROBE TO EXISTING INTERSTITIAL NOTIFICATION APPLIANCE CIRCUITS.
 - INSTALL AREA SMOKE DETECTORS TO PROTECT THE NEW MECHANICAL ROOM.
 - CLOSE AUTOMATIC FIRE/SMOKE DAMPERS UPON DETECTION OF SMOKE TO PROVIDE CONTROL OF SMOKE AND PROVIDE HORIZONTAL EXTING.
 - ADJUST SPEAKER VOLUME SO THAT AUDIBLE VOICE MESSAGES ARE HEARD CLEARLY AND ARE INTELLIGIBLE PER THE REQUIREMENTS OF NFPA 72.7.4.1.4.
 - AUDIBLE/ VISUAL AND VISUAL NOTIFICATION APPLIANCES SHALL BE WALL MOUNTED IN MECHANICAL ROOMS.
 - ALL FIRE ALARM SYSTEM CONDUIT AND JUNCTION BOX COVERS SHALL BE PAINTED RED PER THE REQUIREMENTS OF THE SPECIFICATIONS.
 - THE EXISTING FIRE ALARM SYSTEM IS AN EST-3 FIRE ALARM SYSTEM WHICH IS AN EXTENSION OF THE EXISTING BUILDING 1 FIRE ALARM SYSTEM BY DETECTION LOGIC PH: 760-233-9787.
 - DURING DEMOLITION OF THE INTERSTITIAL SPACE, PROTECT IN PLACE ALL FIRE ALARM DEVICES AND CONDUIT NOT IN THE RENOVATE DENTAL TO AMBULATORY CARE (PHASE 2) PROJECT AREA. PROTECT IN PLACE OR REROUTE ANY FIRE CONDUIT OR WIRING WHICH IS FEEDING THE P.O.C AND FEEDING ANY DEVICE OUTSIDE THE RENOVATE DENTAL TO AMBULATORY CARE (PHASE 2) PROJECT AREA.
 - FIELD VERIFY THE EXACT LOCATION OF EXISTING CONDUIT AND WIRING TO REMAIN PROTECTED IN PLACE TO MAINTAIN OPERATION OF THE SYSTEM, BEFORE DEMOLITION. COORDINATE WITH THE GENERAL CONTRACTOR BEFORE DEMOLITION BEGINS.

- ### KEY NOTES
- FIELD VERIFY THE EXISTING FIRE ALARM CONDUITS TO DETERMINE WHICH CAN BE SAFELY REMOVED DURING DEMOLITION TO INSURE SYSTEM OPERATION OF FIRE ALARM DEVICES OUTSIDE THE PHASE 1 PROJECT AREA. PROTECT IN PLACE ALL SUCH CONDUITS.
 - FIELD VERIFY THE LOCATION OF THE EXISTING INTERSTITIAL FIRE ALARM SYSTEM JUNCTION BOX CONTAINING EXISTING CIRCUITS AS NECESSARY TO EXTEND THE EXISTING SIGNALING LINE CIRCUIT. VISUAL NOTIFICATION CIRCUIT AND SPEAKER NOTIFICATION APPLIANCE CIRCUIT TO THE NEW MECHANICAL ROOMS.
 - INSTALL A NEW PHOTOELECTRIC AREA SMOKE DETECTOR IN THE PLENUM OF THE NEW AHU. INSURE OPERATION AND COMPLIANCE TO HIGH AIR VELOCITY OF MAXIMUM 3,000 FT/MIN.
 - AREA SMOKE DETECTORS TO MONITOR THE NEW MECHANICAL ROOM FOR SMOKE. TYPICAL.
 - CONNECT THE NEW SPEAKER STROBE TO THE EXISTING INTERSTITIAL NOTIFICATION APPLIANCE CIRCUIT FOR THE SOUTH WEST AREA. EXTEND NEW WIRING AS NECESSARY.
 - COORDINATE WITH THE MECHANICAL CONTRACTOR THE LOCATION TO MOUNT THE AIR HANDLER SHUT DOWN CONTROL RELAY.

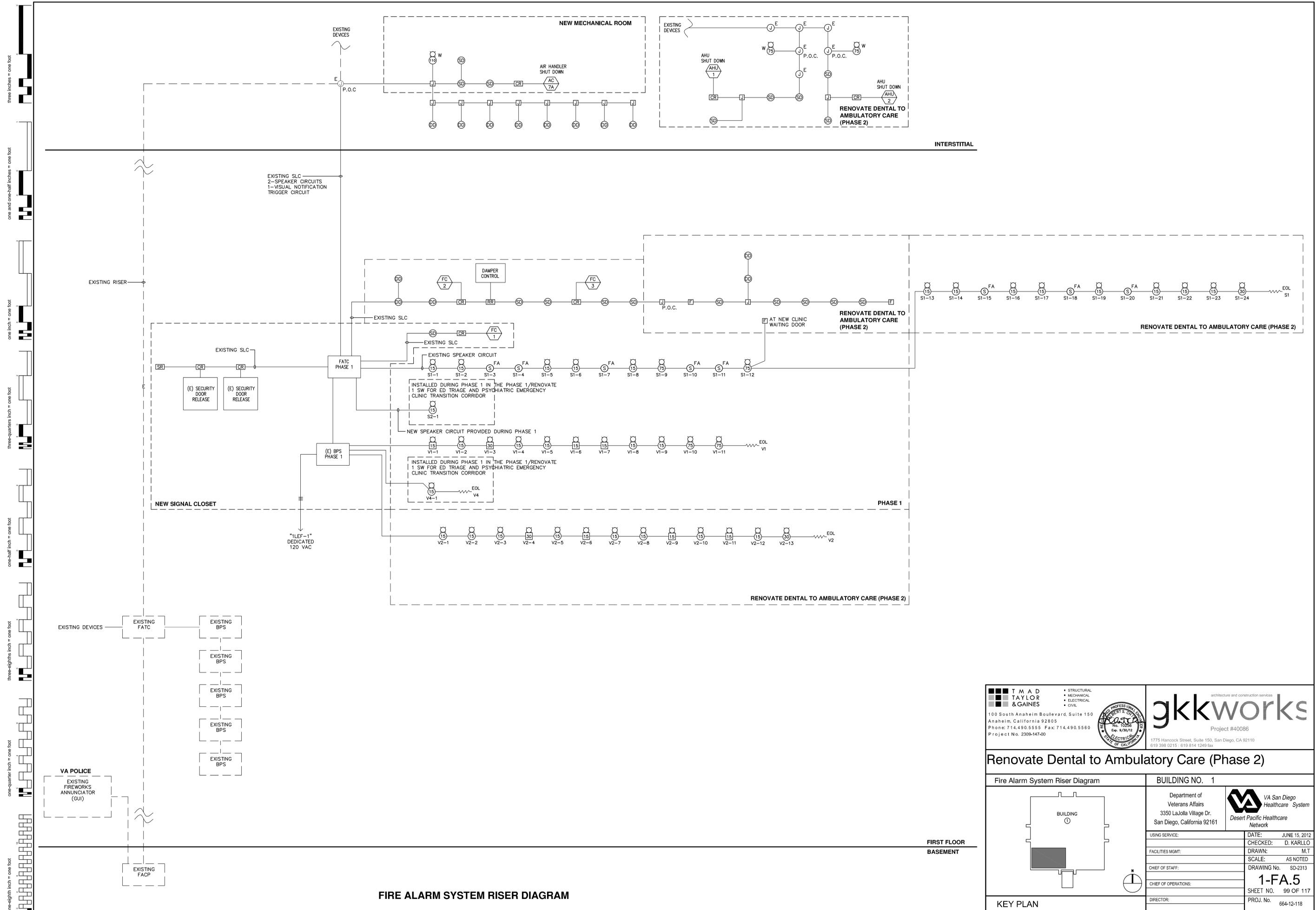
T.M.A.D. TAYLOR & GAINES
 100 South Anaheim Boulevard, Suite 150
 Anaheim, California 92805
 Phone: 714.490.5555 Fax: 714.490.5560
 Project No. 2309-147-00

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gkkworks
 architecture and construction services
 Project #40086
 1775 Hancock Street, Suite 150, San Diego, CA 92110
 619.398.0215 • 619.814.1249 fax

Renovate Dental to Ambulatory Care (Phase 2)

Interstitia HVAC New Floor Plan (Phase 2)		BUILDING NO. 1	
Department of Veterans Affairs 3350 LaJolla Village Dr. San Diego, California 92161		VA San Diego Healthcare System Desert Pacific Healthcare Network	
USING SERVICE:	DATE: JUNE 15, 2012	SHEET NO. 98 OF 117	
FACILITIES MGMT:	CHECKED: D. KARLLO	PROJ. No. 664-12-118	
CHIEF OF STAFF:	DRAWN: M.T		
CHIEF OF OPERATIONS:	SCALE: AS NOTED		
DIRECTOR:	DRAWING No. SD-2313		
	1-FA.4		

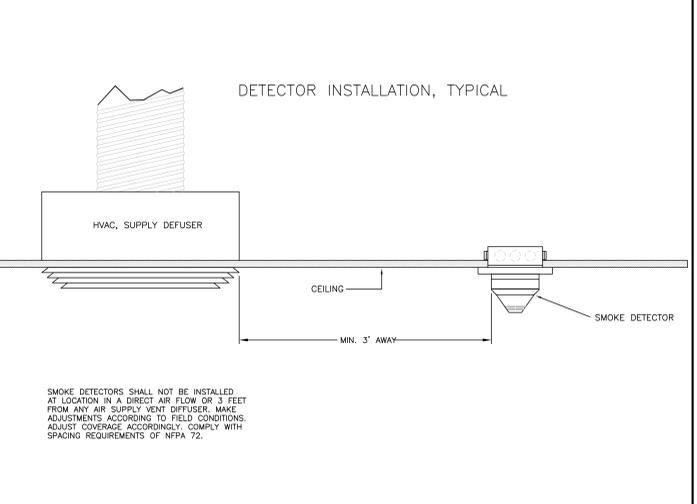
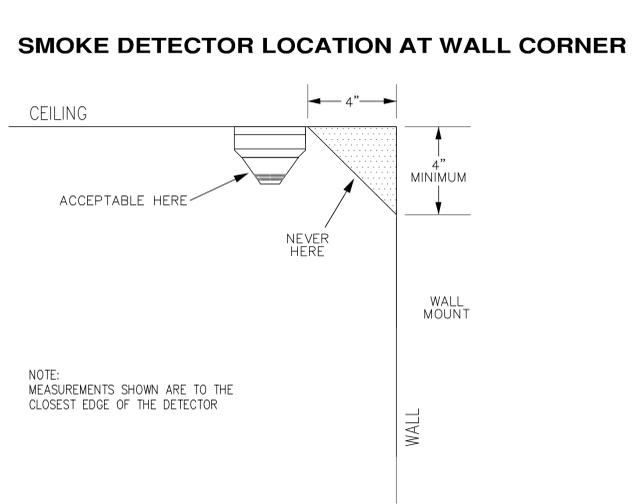
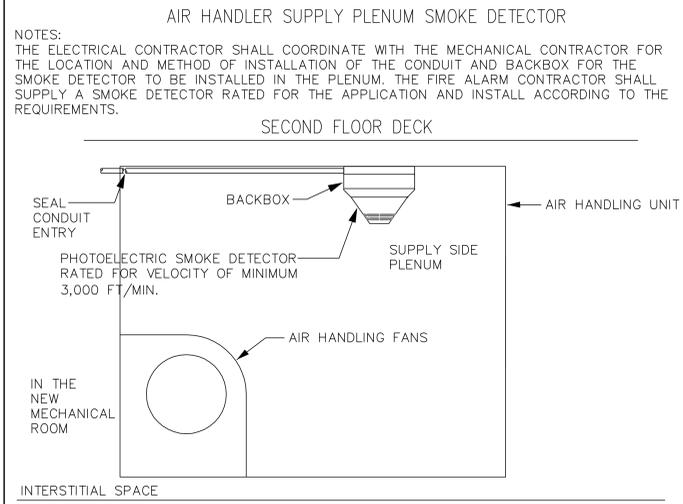


FIRE ALARM SYSTEM RISER DIAGRAM

<p>T.M.A.D. TAYLOR & GAINES</p> <p>100 South Anaheim Boulevard, Suite 150 Anaheim, California 92805 Phone: 714.490.5555 Fax: 714.490.5560 Project No. 2309-147-00</p>		<p>gkkworks</p> <p>architecture and construction services</p> <p>1775 Hancock Street, Suite 150, San Diego, CA 92110 619.398.0215 • 619.814.1249 fax</p>	
<p>Renovate Dental to Ambulatory Care (Phase 2)</p>			
<p>Fire Alarm System Riser Diagram</p>		<p>BUILDING NO. 1</p>	
		<p>Department of Veterans Affairs 3350 LaJolla Village Dr. San Diego, California 92161</p> <p>VA San Diego Healthcare System Desert Pacific Healthcare Network</p>	
<p>USING SERVICE:</p>		<p>DATE: JUNE 15, 2012</p>	
<p>FACILITIES MGMT:</p>		<p>CHECKED: D. KARLLO</p>	
<p>CHIEF OF STAFF:</p>		<p>DRAWN: M.T.</p>	
<p>CHIEF OF OPERATIONS:</p>		<p>SCALE: AS NOTED</p>	
<p>DIRECTOR:</p>		<p>DRAWING No. SD-2313</p>	
<p>KEY PLAN</p>		<p>1-FA.5</p>	
		<p>SHEET NO. 99 OF 117</p>	
		<p>PROJ. No. 664-12-118</p>	

100% CONSTRUCTION DOCUMENTS SUBMITTAL

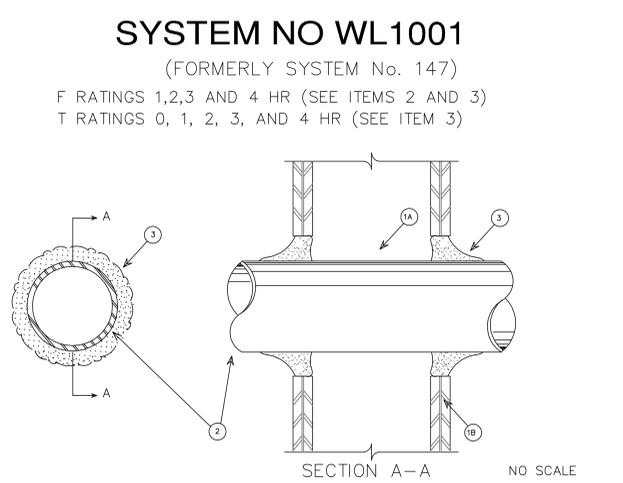
T:\23CAD\2309\2309-147-00\Low Voltage\Fire Alarm\Phase 2\EF_2_FA-5.dwg Jun 28, 2012 11:13am mtran



AIR HANDLER SMOKE DETECTOR DETAIL NOT TO SCALE **2**

SMOKE DETECTOR CORNER MOUNTING NOT TO SCALE **3**

SMOKE DETECTOR HVAC VENT DETAIL NOT TO SCALE **4**



1. Wall Assembly - The 1,2,3, or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire resistance Directory and shall include the following construction features:

A. Studs - Wall framing may consist of either wood studs (max 2h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.

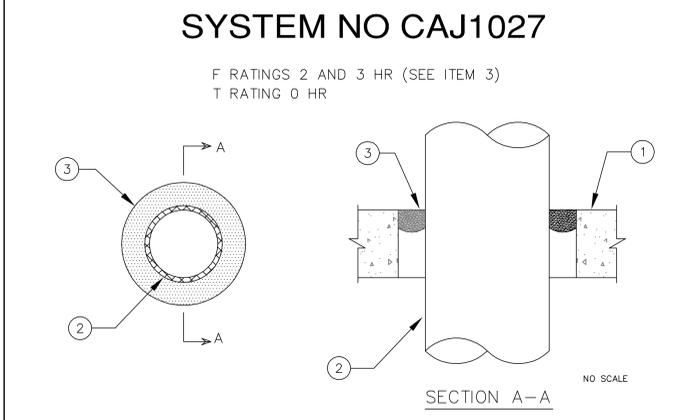
B. Wallboard, Gypsum - Nom 1/2 or 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 13-1/2 in.

2. Pipe or Conduit - Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe, nom 6 in. diam (or smaller) steel conduit, nom 4 in diam (or smaller) steel electrical metallic tubing or Type L or (or heavier) copper tubing or nom 1 in. diam (or smaller) flexible steel conduit. When copper pipe or flexible steel conduit is used, max F Rating of firestop system (Item 3) is 2 h. Steel pipes or conduits larger than 4 in. diam may only be used in walls constructed using steel channel studs. A max of one pipe or conduit is permitted in the fire stop system. Pipe or conduit to be installed near center of stud cavity width and to be rigidly supported on both sides of wall assembly.

3. Fill, Void or Cavity Material - Caulk - Caulk fill material installed to completely fill annular space between pipe or conduit and gypsum wallboard and with a min 1/4 in. diam bead of caulk applied to perimeter of pipe or conduit at its egress from the wall. Caulk installed symmetrically on both sides of wall assembly. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

THROUGH OPENING	ANNULAR SPACE, IN	F RATING, HR	T RATING, HR
0 TO 3/16	1 OR 2	0	WHEN COPPER PIPE IS USED, T RATING IS 0 H, 1 OR 2
1/4 TO 1/2	3 OR 4	3	OR 4
0 TO 1/4	1 OR 2	0	
1/4 TO 3/8	3 OR 4	0	
3/16 TO 3/8	1 OR 2	0	

MINNESOTA MINING AND MFG. CO. -
Types CP-25 S/L, CP-25 N/S, CP-25 WB,
CP-25, WB+
*BEARING THE UL CLASSIFICATION MARKING



1. Floor or Wall Assembly - Min 4-1/2 in. thick lightweight or normal weight (100-150pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam through opening is 12-1/4 in.

See concrete blocs (CAZT) category in Fire Resistance Directory for names of manufacturers.

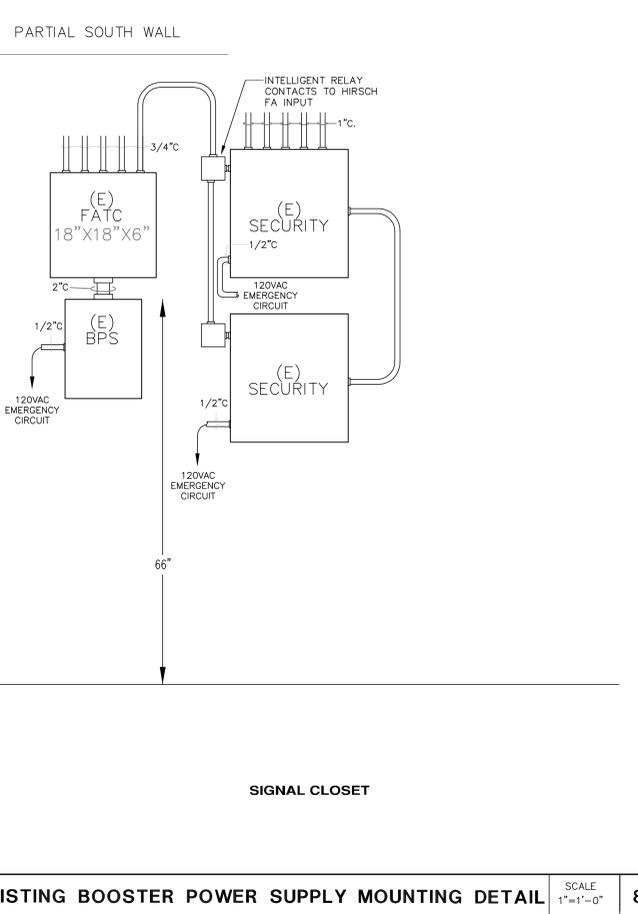
2. Steel Pipe or Conduit - Nom 10 in dia (or smaller) Schedule 10 (or heavier) steel pipe, nom 6 in. diam (or smaller) rigid steel conduit or nom 4 in. diam (or smaller) steel EMT. Max one steel pipe or conduit per through opening. Max annular space between pipe or conduit and edge of through opening not to exceed 3/4 in. Pipe or conduit to be rigidly supported on both sides of floor or wall assembly.

3. Fill, Void or Cavity Materials* - Putty - Mouldable putty material kneaded by hand and packed lightly into annular space, flush with top surface of floor. In wall assemblies, required putty thickness to be installed symmetrically on both sides of the wall. The min. putty thickness and max through opening sizes for the 2 and 3 Hr F Ratings are specified in the following table:

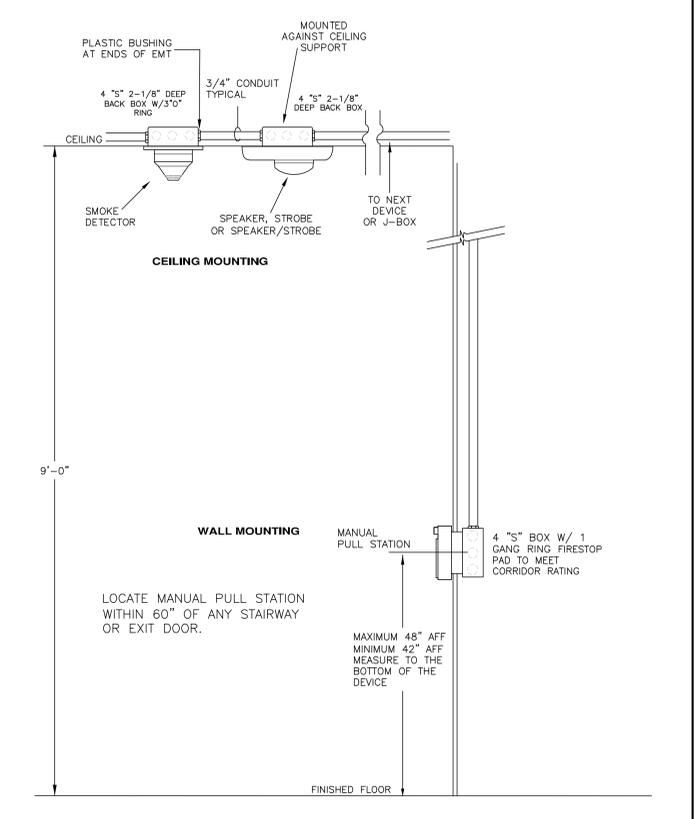
Max Through Opening Diam, In	Min Fill Material Thkns, In	F RATING, HR
6-1/4 in.	1/2	2
12-1/4 in.	1	3

MINNESOTA MINING AND MFG. CO. - Type MP
* Bearing the UL Classification Marking.

THROUGH PENETRATION FIRESTOP DETAILS NOT TO SCALE **7**



EXISTING BOOSTER POWER SUPPLY MOUNTING DETAIL SCALE 1"=1'-0" **8**



MOUNTING DETAILS NOT TO SCALE **9**

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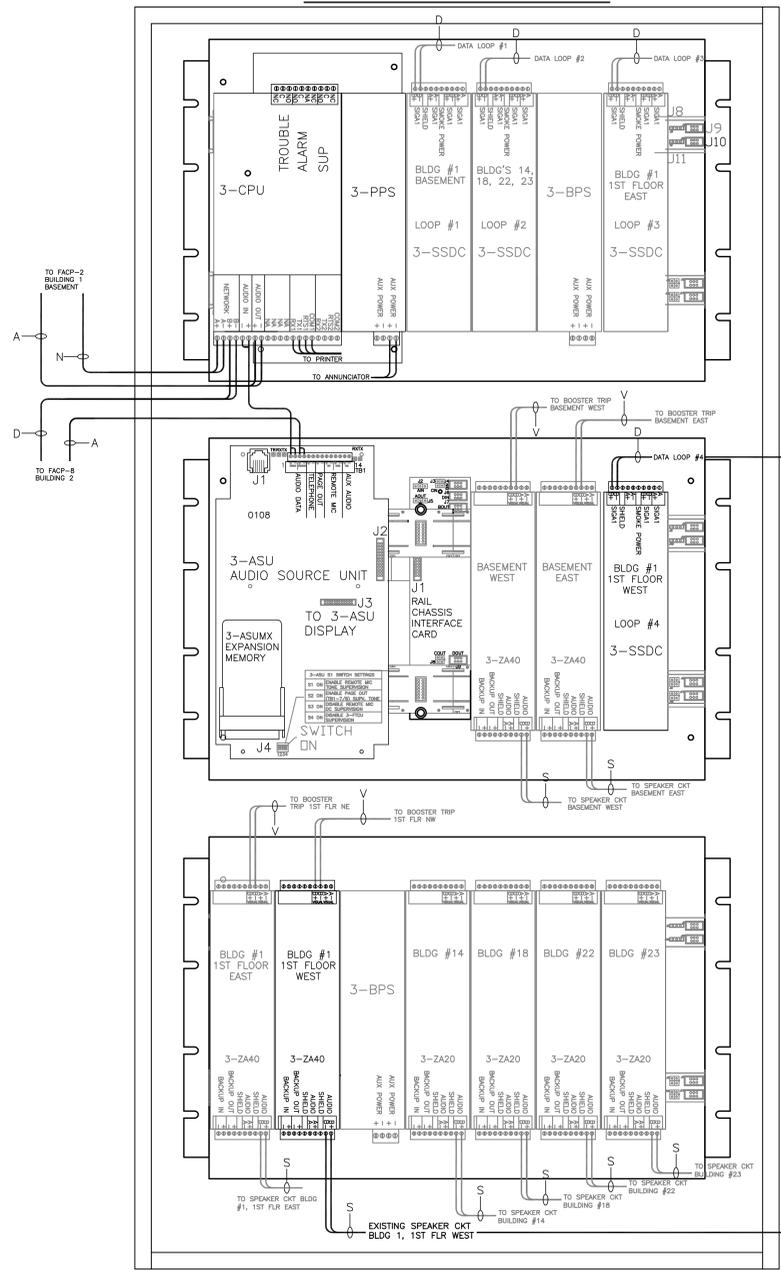
Renovate Dental to Ambulatory Care (Phase 2)

Fire Alarm System Details	BUILDING NO. 1
	<p>Department of Veterans Affairs 3350 LaJolla Village Dr. San Diego, California 92161</p> <p>VA San Diego Healthcare System Desert Pacific Healthcare Network</p>
<p>USING SERVICE:</p> <p>FACILITIES MGMT:</p> <p>CHIEF OF STAFF:</p> <p>CHIEF OF OPERATIONS:</p> <p>DIRECTOR:</p>	<p>DATE: JUNE 15, 2012</p> <p>CHECKED: D. KARLLO</p> <p>DRAWN: M.T</p> <p>SCALE: AS NOTED</p> <p>DRAWING No. SD-2313</p> <p style="font-size: 2em; font-weight: bold;">1-FA.6</p> <p>SHEET No. 100 OF 117</p> <p>PROJ. No. 664-12-118</p>

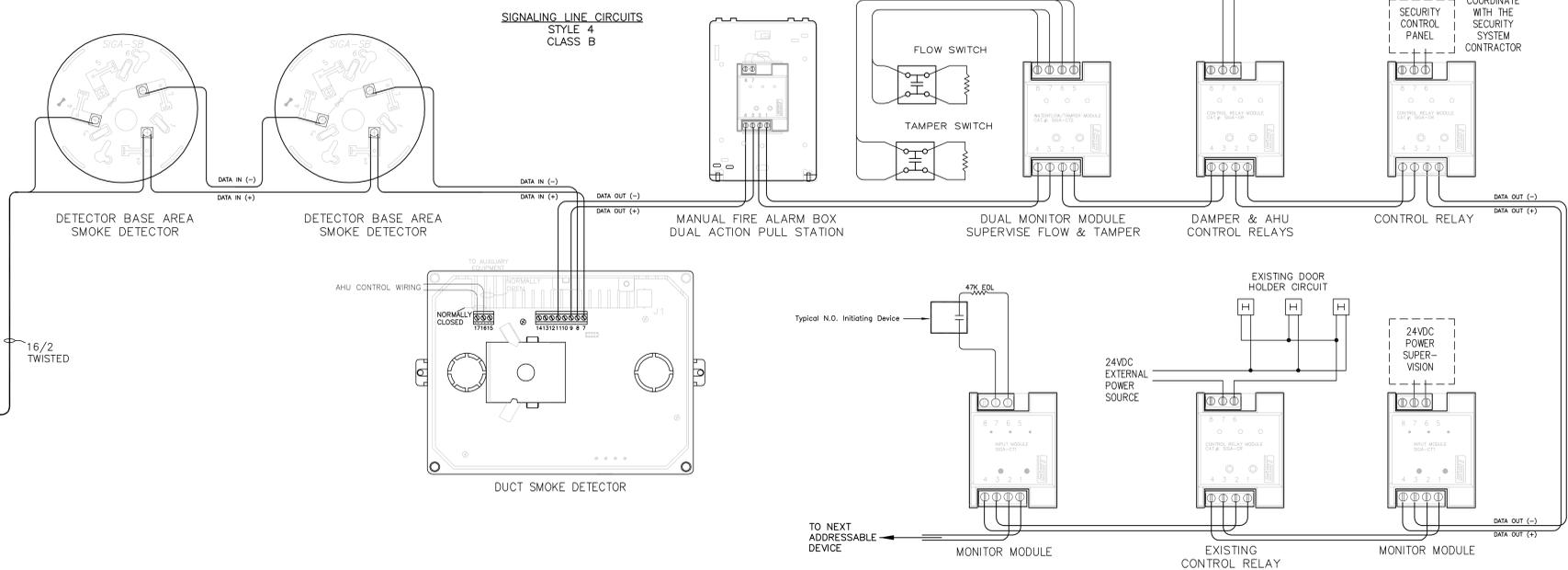
three inches = one foot
 one and one-half inches = one foot
 one inch = one foot
 three-quarters inch = one foot
 one-half inch = one foot
 three-eighths inch = one foot
 one-quarter inch = one foot
 one-eighth inch = one foot

FIRE ALARM SYSTEM WIRING DIAGRAM

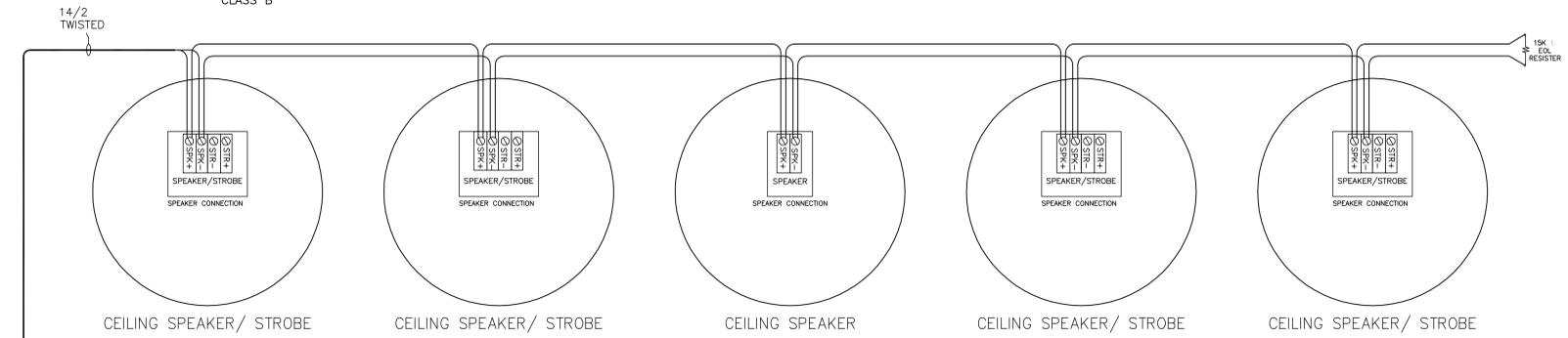
BUILDING #1 BASEMENT FACP EXISTING TRANSPONDER



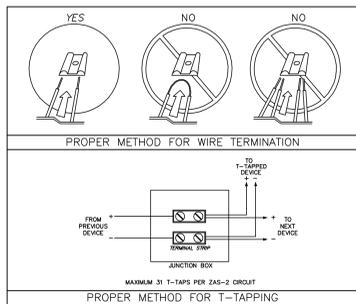
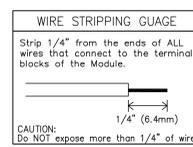
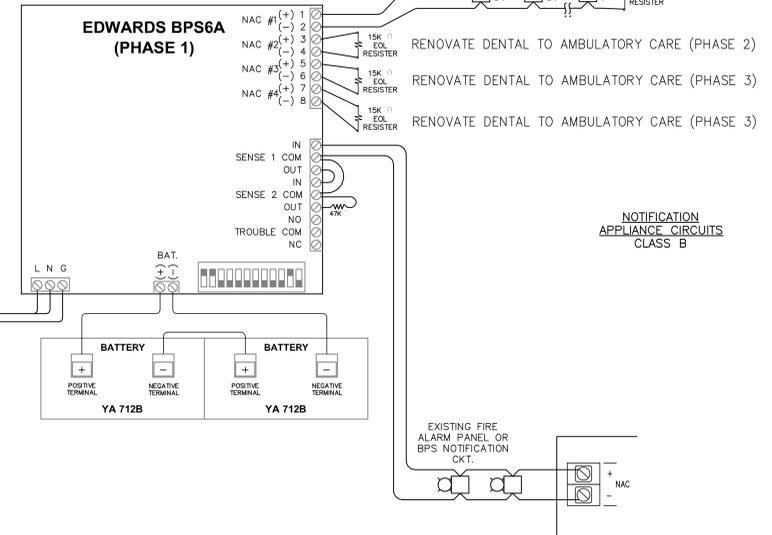
TYPICAL FIELD WIRING



NOTIFICATION APPLIANCE CIRCUITS CLASS B



EXISTING REMOTE BOOSTER POWER SUPPLY



WIRE TERMINATION DETAILS

<p>T.M.A.D. TAYLOR & GAINES</p> <p>100 South Anaheim Boulevard, Suite 150 Anaheim, California 92805 Phone: 714.490.5555 Fax: 714.490.5560 Project No. 2309-147-00</p>		<p style="text-align: right;">architecture and construction services</p> <p style="font-size: 2em; font-weight: bold; text-align: center;">gkkworks</p> <p style="text-align: right;">Project #40086</p> <p style="text-align: right;">1775 Hancock Street, Suite 150, San Diego, CA 92110 619.398.0215 • 619.814.1249 fax</p>
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Renovate Dental to Ambulatory Care (Phase 2)

<p>Fire Alarm System Wiring Diagram</p> <p style="text-align: center;">KEY PLAN</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">BUILDING NO. 1</td> </tr> <tr> <td colspan="2" style="text-align: center;">Department of Veterans Affairs 3350 LaJolla Village Dr. San Diego, California 92161</td> </tr> <tr> <td colspan="2" style="text-align: center;"> </td> </tr> <tr> <td style="width: 50%;">USING SERVICE:</td> <td style="width: 50%;">DATE: JUNE 15, 2012</td> </tr> <tr> <td>FACILITIES MGMT:</td> <td>CHECKED: D. KARLLO</td> </tr> <tr> <td>CHIEF OF STAFF:</td> <td>DRAWN: M.T</td> </tr> <tr> <td>CHIEF OF OPERATIONS:</td> <td>SCALE: AS NOTED</td> </tr> <tr> <td>DIRECTOR:</td> <td>DRAWING No. SD-2313</td> </tr> <tr> <td></td> <td style="font-size: 1.5em; font-weight: bold; text-align: center;">1-FA.7</td> </tr> <tr> <td></td> <td>SHEET NO. 101 OF 117</td> </tr> <tr> <td></td> <td>PROJ. No. 664-12-118</td> </tr> </table>	BUILDING NO. 1		Department of Veterans Affairs 3350 LaJolla Village Dr. San Diego, California 92161				USING SERVICE:	DATE: JUNE 15, 2012	FACILITIES MGMT:	CHECKED: D. KARLLO	CHIEF OF STAFF:	DRAWN: M.T	CHIEF OF OPERATIONS:	SCALE: AS NOTED	DIRECTOR:	DRAWING No. SD-2313		1-FA.7		SHEET NO. 101 OF 117		PROJ. No. 664-12-118
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