



ARCHITECTS CLIENT FOCUSED. PASSION DRIVEN.

July 21, 2017

TO : All Bidders  
FROM : George M. Wiens  
PROJECT : CTE Classroom Addition  
Vista Murrieta High School  
1615400.41  
SUBJECT : Addendum 4  
DSA : 04-115755 / 33-H18

The following changes, omissions, and/or additions to the Project Manual and/or Drawings shall apply to proposals made for and to the execution of the various parts of the work affected thereby, and all other conditions shall remain the same.

Careful note of the Addendum shall be taken by all parties of interest so that the proper allowances may be made in strict accordance with the Addendum, and that all trades shall be fully advised in the performance of the work which will be required of them.

Bidder shall acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

In case of conflict between Drawings, Project Manual, and this Addendum, this Addendum shall govern.

#### GENERAL NOTE

- 4.1 Refer to the attached Addendum 4 dated July 21, 2017 as prepared by Ledcor Construction, Inc.

#### PROJECT MANUAL

- 4.2 SECTION 23 33 00 - AIR DUCT ACCESSORIES

A. Paragraph 3.2, Item C, Line 2, revise to read as follows:

"2. Upstream of each 90 degree elbow, both round and rectangular."

- 4.3 SECTION 23 34 00 - HVAC FANS

A. Paragraph 1.11, Item A, revise to read as follows:

"A. Furnish, service, and maintain fans for one year from date of Substantial Completion."

Addendum 4  
CTE Classroom Addition  
Vista Murrieta High School  
Project 1615400.41  
DSA 04-115755 / 33-H18  
July 21, 2017  
Page 2

## DRAWINGS

### Architectural

#### 4 .4 DRAWING AX2.1

A. Revise as indicated in the clouded area labeled Delta 4 on the attached AX2.1.

#### 4 .5 DRAWING AX7.1

A. Revise as indicated in the clouded area labeled Delta 4 on the attached AX7.1.

### Electrical

#### 4 .6 DRAWING E5.1

A. Revise as indicated in the clouded area labeled Delta 4 on the attached E5.1.

#### 4 .7 DRAWING E5.2

A. Revise as indicated in the clouded area labeled Delta 4 on the attached E5.2.

## END OF ADDENDUM 4

Submitted by,

  
GEORGE M. WIENS  
Architect, AIA  
LEED™ AP  
Principal



GMW:LC:hb/P41615400x4-add

Attachments: Addendum 4 dated July 21, 2017 as prepared by Ledcor Construction, Inc.  
Drawings: AX2.1, AX7.1, E5.1, E5.2



**Ledcor Construction Inc.**  
38975 Sky Canyon Drive, Suite 109  
Murrieta, California  
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CTE Classroom Addition

Re-Bid Bid Package 4, 15 & 17

Addenda No. 4 – Scope Questions / Clarifications

Question 1:

Bid Package 15 – HVAC Systems

Question: The scope of work, Clarifications #12 stipulates the Bid Package #15 PTC is responsible for “Insulation inside and HVAC Curb and outside of curb, however, the detail on sheet M4-1 shows neither; nor is there any indication as to how the insulation on the “outside” of the curbs are to be integrated with the roofing & flashing assemblies. Please clarify.

Answer: In Bid Package 15, Scope of Work, Clarifications #12, revise sentence to read: “Insulation inside of HVAC curb, in accordance with the drawings.”



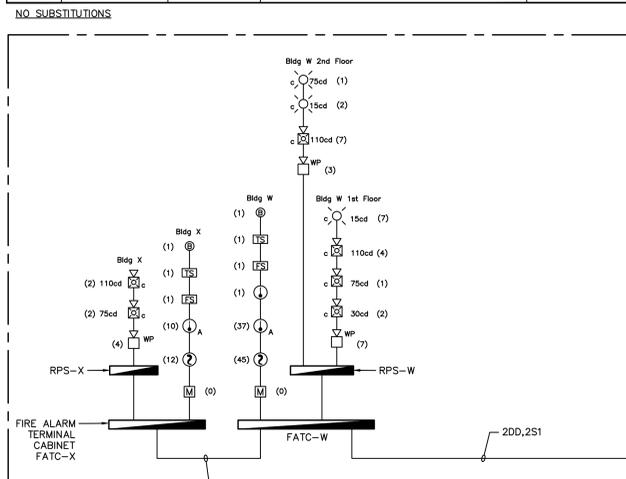




FIRE ALARM NOTES

- THIS IS A COMPLETE AUTOMATIC FIRE ALARM SYSTEM PLAN SUBMITTAL PER 2013 CFC 907.2.3 AND 2013 CBC 907.2.3.
- THE NEW FIRE ALARM SYSTEM EXTENSION IS CONFIGURED TO A FULLY AUTOMATIC SYSTEM, AS IS THE EXISTING INSTALLATION.
- THE FIRE ALARM SYSTEM INDICATED ON THESE DRAWINGS IS APPROVED BY CALIFORNIA STATE FIRE MARSHAL AND SHALL BE INSTALLED AS DESCRIBED ON THESE DRAWINGS AND AS NOTED IN THE SPECIFICATIONS. ANY CHANGES TO THESE PLANS, I.E., DELETION, RELOCATION OR ADDING OF DEVICES SHALL BE RESUBMITTED TO THE STATE FIRE MARSHAL FOR APPROVAL.  
INSTALLATION OF FIRE ALARM SYSTEM MAY START AFTER TMAID TAYLOR & GAINES RECEIVES THESE APPROVED DRAWINGS. A.O.R. SHALL STAMP AND SIGN ALL DRAWINGS.
- ALL WIRING AND INITIATING DEVICES SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION (F/A PANEL TO SUPERVISE ALL CIRCUITS AND INITIATING DEVICES).
- WIRING SHALL NOT BE LOOPED THROUGH DEVICES; WIRE MUST BE CUT FOR IN AND FOR OUT.
- ALL WIRING TO BE IN CONDUIT.
- ALL TERMINATIONS IN JUNCTION BOXES, PULL BOXES AND TERMINAL CABINETS SHALL BE ON BOX MOUNTED TERMINAL BLOCKS. DO NOT USE WIRE NUTS FOR SPLICING. DO NOT SPLICE WIRES IN ANY BOXES.
- ALL CONDUIT SIZES INDICATED IN DRAWINGS ARE MINIMUM. CONTRACTOR TO ADJUST SIZE FOR FIELD CONDITIONS BUT SHALL NOT BE SMALLER THAN 3/4 INCH.
- ALL FIRE ALARM WIRING MUST TEST FREE OF OPENS, SHORTS AND GROUNDS.
- FIRE ALARM DRAWINGS ARE SCHEMATIC IN NATURE ONLY. CONTRACTOR TO ROUTE CONDUIT AS FIELD CONDITIONS INDICATE.
- CONDUIT AND JUNCTION/BACK BOXES ARE NOT TO BE USED FOR UNRELATED WIRING.
- THE SYSTEM SHALL CONFORM TO TITLES 19 AND 24 AS APPLICABLE TO THIS PROJECT.
- UPON COMPLETION OF SYSTEM INSTALLATION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF, AND IN A MANNER ACCEPTABLE TO, THE ENFORCING AGENCY.
- THE CONTRACTOR SHALL REPROGRAM AND CERTIFY ADDRESSABLE FIRE ALARM CONTROL PANEL TO ACCOMMODATE ADDITIONAL DEVICES.
- FIRE ALARM SYSTEM SHALL BE INSTALLED BY FACTORY AUTHORIZED REPRESENTATIVE.
- CONDUCTOR LENGTHS AND DEVICE QUANTITIES ARE SHOWN SOLELY FOR CALCULATION PURPOSES ONLY, AND SHALL NOT BE USED FOR BID TAKE-OFF.
- THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF CALIFORNIA ELECTRICAL CODE. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY DSA-ORS. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE FIRE AUTHORITY HAVING JURISDICTION.
- PENETRATIONS OF PIPES, CONDUITS, ETC., IN WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. FIRE STOP MATERIAL SHALL BE A TEST ASSEMBLY ACCEPTABLE TO DSA-ORS.
- ALL FIRE ALARM AND COMMUNICATIONS WIRES AND CABLES SHALL BE ONE CONTINUOUS LENGTH FROM A BUILDING TERMINAL CABINET TO ANOTHER BUILDING TERMINAL CABINET OR JUNCTION BOX. ABSOLUTELY NO SUBGRADE SPLICES WILL BE PERMITTED. PROVIDE TERMINAL BLOCKS WITH MOUNTING IN TERMINAL CABINETS ONLY AS REQUIRED.
- EVERY ALARM SIGNALING DEVICE INSTALLED SHALL BE OF THE SAME BASIC TYPE (BELLS, HORNS, CHIMES, SPEAKERS, ETC.) AS ALL OTHER SIGNALING DEVICES IN THE FACILITY. (EXCEPTION: ANY SIGNALING DEVICES REQUIRED FOR THE DEAF OR HEARING IMPAIRED PER 2013 NFPA-72).
- INSULATED CONDUCTORS USED IN WET LOCATIONS SHALL BE (1) LEAD-COVERED, (2) TYPES RHW, THW, THHN, THWN, XHHW, OR (3) OF A TYPE LISTED FOR USE IN WET LOCATIONS. CABLES OF ONE OR MORE CONDUCTORS USED IN WET LOCATIONS SHALL BE OF A TYPE LISTED FOR USE IN WET LOCATIONS. CONDUCTORS USED FOR DIRECT BURIAL APPLICATIONS SHALL BE OF A TYPE LISTED FOR SUCH USE (PER 2013 CEC ARTICLE 310).
- THE FIRE ALARM DEVICE SUPPLIER SHALL FURNISH ALL SURFACE MOUNT ENCLOSURES FOR PULLSTATIONS AND SKIRTS FOR ALL VISUAL AND AUDIO VISUAL DEVICES TO CONCEAL 45 BACK BOXES.
- AFTER THE SYSTEM IS COMPLETED, ALL ADDRESSABLE DEVICES SHALL BE PROGRAMMED AT THE FACP ACCORDING TO THE ACTUAL BUILDING ROOM NUMBER. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE SCHOOL DISTRICT TO OBTAIN ACCURATE ROOM NUMBER INFORMATION.
- POWER SERVICES SHALL BE ON A DEDICATED BRANCH CIRCUIT WITH A RED MARKING & LOCKING DEVICE AND IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL".
- PROVIDE CAPABILITY TO PRODUCE CALIFORNIA TEMPORAL-THREE TONE DISTINCTIVE FIRE ALARM SOUND. (2013 CFC SEC. 907.6.2.1.3 & 2013 NFPA 72 SEC. 18.4.2.1)
- AUDIBLE FIRE ALARM SOUND LEVEL SHALL BE AT LEAST 15 dBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPIABLE AREAS (2013 NFPA 72 SEC. 18.4.3.1) (I.E. CLASSROOM AVERAGE AMBIENT ROOM NOISE [545dBA PLUS 15dBA EQUAL = 60dBA MINIMUM ALARM TONE REQUIRED])
- STROBES SHALL FLASH AT A RATE NOT EXCEEDING TWO FLASHES PER SECOND NOR BE LESS THAN ONE FLASH EVERY SECOND. (2013 NFPA 72 SEC. 18.5.3.1)
- FINAL FIRE ALARM TEST SHALL BE MADE WITH THE DSA INSPECTOR OF RECORD (IOR). LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL ALARM TESTING AND SHALL ASSIST/WITNESS SUCH TESTING WHEN ABLE.
- FIRE ALARM CONTRACTOR SHALL PROVIDE A "RECORD OF COMPLETION" TO THE INSPECTOR OF RECORD (IOR)/DSA AFTER COMPLETION OF OPERATION ACCEPTANCE TEST. (2013 NFPA 72 SEC. 7.5.6 & 2013 CFC 901.6.2)
- UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED, NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.
- THE INSTALLING CONTRACTOR SHALL PROVIDE A STATEMENT OF COMPLIANCE ALONG WITH THE REQUEST FOR ACCEPTANCE TESTING PER 2013 NFPA-72.
- OCCUPANCY OF THE BUILDINGS IS PROHIBITED UNTIL THE FIRE ALARM SYSTEM IS COMPLETED, TESTED, AND APPROVED PER 2013 NFPA 72.
- THE DISTRICT SHALL RETAIN RECORD DRAWINGS ON THE PREMISES FOR A MINIMUM OF 3 YEARS.
- SMOKE DETECTORS SHALL BE TESTED PER THE METHOD SHOWN IN 2013 CFC.
- REACCEPTANCE TESTING SHALL BE PERFORMED AS REQUIRED BY 2013 NFPA 72.
- ALL BACKUP BATTERIES FOR FIRE ALARM SYSTEM EQUIPMENT SHALL BE VISUALLY CHECKED FOR DATE OF INSTALLATION. ALL BATTERIES OVER 5 YEARS OLD SHALL BE REPLACED WITH NEW BATTERIES OF THE SAME MANUFACTURER, TYPE, AND AMP-HOUR RATING.

FIRE ALARM SYSTEM LEGEND				
SYMBOL	MFG.	PART NO.	DESCRIPTION	CSFM LISTING NO.
[FACP]	GAMEWELL FCI	E3	ADDRESSABLE FIRE ALARM CONTROL PANEL WITH VOICE EVACUATION CAPABILITY AND DIGITAL DIALER	7165-1703-0125
[FAA]	GAMEWELL FCI	RAN-7100	FIRE ALARM REMOTE ANNUNCIATOR	7300-1703-0106
[RPS]	GAMEWELL FCI	HPF2458	REMOTE POWER SUPPLY	7315-1637-0102
[M]	GAMEWELL FCI	M46-SL	MANUAL PULL STATION	7150-1703-0129
[R]	GAMEWELL FCI	RCE-95	CONTROL RELAY MODULE	7300-1703-0135
[SD]	GAMEWELL FCI	ASD-PLZF	PHOTOELECTRIC SMOKE DETECTOR	7272-1703-0121
[SD]	GAMEWELL FCI	MCS-COF	PHOTOELECTRIC SMOKE DETECTOR WITH CARBON MONOXIDE DETECTION	7275-1703-0175
[S]	SYSTEM SENSOR	5602	FIXED HEAT DETECTOR WITH RATE OF RISE, COMBINE WITH NOTIFIER MONITOR MODULE FM-1.	7270-1653-0167 7300-0028-0219
[S]	SYSTEM SENSOR	5602	FIXED HEAT DETECTOR WITH RATE OF RISE, COMBINE WITH NOTIFIER MONITOR MODULE FM-1, MOUNT IN ATTIC SPACE	7270-1653-0167 7300-0028-0219
[S]	SYSTEM SENSOR	SCR	CEILING MOUNT STROBE (CANDELA PER FLUX) TAP SPEAKERS AS SHOWN ON PLAN & RISER	7125-1653-0186
[S]	SYSTEM SENSOR	SPSCR	CEILING MOUNT SPEAKER-STROBE, CANDELA AS SHOWN TAP SPEAKER AT 1/2 WATT	7320-1653-0201
[S]	SYSTEM SENSOR	SPRK	OUTDOOR SPEAKER TAPPED AT 2 WATTS	7320-1653-0201
[S]	SYSTEM SENSOR	SSV-120-10	FIRE SPRINKLER BELL	7135-1653-0217
[S]	SYSTEM SENSOR	WFD SERIES	WATERFLOW DETECTOR WITH MONITOR MODULE	7770-1653-0231
[S]	SYSTEM SENSOR	DSV2	TAMPER SWITCH FOR RISER & DDCV WITH MONITOR MODULE	7770-1653-0118
[S]	SYSTEM SENSOR		3/4" MINIMUM CONDUIT WITH WIRING AS INDICATED.	N/A
[S]	SYSTEM SENSOR		END OF LINE RESISTOR "E.O.L."	N/A
[S]	SYSTEM SENSOR		KNOWBOX	-



FIRE ALARM RISER

BATTERY CALCULATION FOR FIRE ALARM CONTROL PANEL AND REMOTE POWER SUPPLIES

DESCRIPTION	FACP / VECP				RPS-W				RPS-X			
	QTY	UNIT	TOTAL	UNIT	QTY	UNIT	TOTAL	UNIT	QTY	UNIT	TOTAL	UNIT
FACP	1	0.25000	0.25000	0.25000								
FIRE ALARM ANNUNCIATOR	1	0.30000	0.30000	0.32500								
REMOTE POWER SUPPLY	0	0.00000	0.00000	0.00000	1	0.09100	0.09100	0.09100	1	0.09100	0.09100	0.09100
DIALER-COMMUNICATOR	1	0.04000	0.04000	0.10000								
SMOKE DETECTOR	57	0.00030	0.01710	0.06650								
HEAT DETECTOR	47	0.00030	0.01410	0.06650								
FLOW SWITCH WITH MONITOR MODULE	2	0.00075	0.00150	0.00640								
TAMPER SWITCH WITH MONITOR MODULE	2	0.00075	0.00150	0.00640								
RELAY MODULE	0	0.00075	0.00000	0.00640								
EXISTING DEVICES	1	0.43000	0.43000	2.50000								
			0.00000	0.00000								
			0.00000	0.00000								
			0.00000	0.00000								
			0.00000	0.00000								
STROBE (15cd)	0		0.06600	0.00000	9		0.06600	0.59400	0		0.06600	0.00000
STROBE (30cd)	0		0.09400	0.00000	0		0.09400	0.00000	0		0.09400	0.00000
STROBE (75cd)	0		0.15800	0.00000	1		0.15800	0.15800	0		0.15800	0.00000
STROBE (110cd)	0		0.20200	0.00000	0		0.20200	0.00000	0		0.20200	0.00000
SPEAKER/STROBE (15cd)	0		0.06600	0.00000	0		0.06600	0.00000	0		0.06600	0.00000
SPEAKER/STROBE (30cd)	0		0.09400	0.00000	2		0.09400	0.18800	0		0.09400	0.00000
SPEAKER/STROBE (75cd)	0		0.15800	0.00000	1		0.15800	0.15800	2		0.15800	0.31600
SPEAKER/STROBE (110cd)	0		0.20200	0.00000	11		0.20200	2.22200	2		0.20200	0.40400
TOTAL		1.054	1.054	4.182		0.091 A	0.091	3.411		0.091 A	0.091	0.811
			1.054 A	4.182 A			0.091 A	3.411 A			0.091 A	0.811 A
			x 24 H	x 0.25 H			x 24 H	x 0.25 H			x 24 H	x 0.25 H
			25.301 AH	1.046 AH			2.184 AH	0.283 AH			2.184 AH	0.067 AH
FIRE ALARM DEVICE QUANTITIES ARE SHOWN SOLELY FOR ENGINEERING CALCULATIONS. IT SHALL NOT BE USED FOR BID QUANTITY TAKEOFFS.			25.301 AH, STANDBY	1.046 AH, ALARM			2.184 AH, STANDBY	0.283 AH, ALARM			2.184 AH, STANDBY	0.067 AH, ALARM
			26.346 AH, TOTAL				2.467 AH, TOTAL				2.251 AH, TOTAL	
			40 AH, BATTERY CAPACITY				7 AH, BATTERY CAPACITY				7 AH, BATTERY CAPACITY	
			13.654 AH, SPARE CAPACITY				4.533 AH, SPARE CAPACITY				4.749 AH, SPARE CAPACITY	

SPEAKER STROBE SIGNAL CIRCUIT SCHEDULE

BLDG. NO.	PANEL NO.	CIRCUIT NO.	15cd STROBE or SPEAKER/STROBE		30cd STROBE or SPEAKER/STROBE		75cd STROBE or SPEAKER/STROBE		110cd STROBE or SPEAKER/STROBE		TOTAL CIRCUIT AMPS	WIRE SIZE (CU)	FEEDER LENGTH IN FT. (FROM PANEL TO EOL)	VOLTAGE DROP (%)	REMARKS
			NO.	AMPS	NO.	AMPS	NO.	AMPS	NO.	AMPS					
X	RPS-X	X1	0	0.000	0	0.000	0	0.000	0	0.000	0.720	12	6530	210	
X	RPS-X	X2	0	0.000	0	0.000	0	0.000	0	0.000	0.000	12	6530	0	
X	RPS-X	X3	0	0.000	0	0.000	0	0.000	0	0.000	0.000	12	6530	0	
X	RPS-X	X4	0	0.000	0	0.000	0	0.000	0	0.000	0.000	12	6530	0	
W	RPS-W	W1	5	0.330	2	0.188	0	0.000	2	0.404	0.922	12	6530	190	2.41
W	RPS-W	W2	2	0.132	0	0.000	1	0.158	2	0.694	0.694	12	6530	135	1.29
W	RPS-W	W3	2	0.132	0	0.000	1	0.158	3	0.606	0.896	12	6530	160	1.98
W	RPS-W	W4	0	0.000	0	0.000	0	0.000	4	0.808	0.808	12	6530	135	1.50

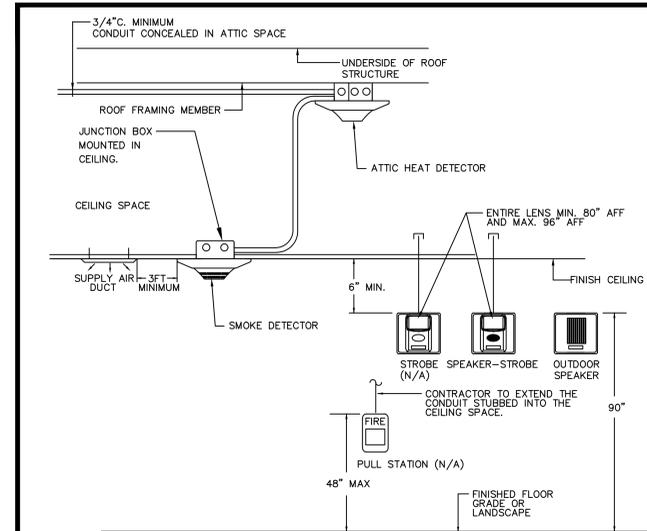
FIRE ALARM WIRE DESIGNATION CHART

SYMBOL DESCRIPTION	NUMBER OF CONDUCTORS	SIZE	TYPE
V NOTIFICATION APPLIANCE CIRCUIT -	TWO	#12	THHN/THWN
D SIGNALING LINE CIRCUIT (SLC) - ABOVE GRADE	TWISTED PAIR	#16	THHN/THWN
DD SIGNALING LINE CIRCUIT (SLC) - BELOW GRADE	TWISTED PAIR	#16	THHN/THWN
S VOICE EVACUATION APPLIANCE CIRCUIT -	TWO	#16	THHN/THWN
S1 VOICE EVACUATION APPLIANCE CIRCUIT - BELOW GRADE	TWO SHIELDED	#16	WET LOCATION

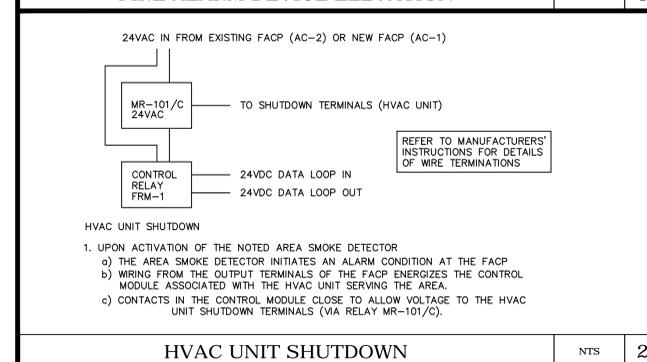
NOTE: 1. NUMERICAL ADJACENT TO SYMBOL INDICATES QUANTITY OF CIRCUITS, I.E. 2AV INDICATES 4#12.  
2. ALL CONDUIT USED FOR FIRE ALARM SHALL BE 3/4" MINIMUM ABOVE GRADE AND 1" MINIMUM BELOW GRADE UNLESS NOTED OTHERWISE.  
3. ALL WIRING USED IN UNDERGROUND CONDUITS SHALL BE LISTED FOR WET AREA APPLICATION, IN ACCORDANCE WITH SEC 760.

SEQUENCE OF OPERATION

	BUILDING POWER FAILURE	AREA SMOKE DETECTOR	ATTIC HEAT DETECTOR	OPEN SHORT OR GROUND	TAMPER SWITCH	FLOW SWITCH
ANNUNCIATE AT FIRE CONTROL PANEL (ALARM, SUPERVISION)	YES	YES	YES	YES	YES	YES
SOUND CONTROL PANEL TROUBLE BUZZER	YES	ON WIRING FAULT	ON WIRING FAULT	YES	YES	YES
ACTIVATE AUDIBLE (INC. SPEAKERS) ALARM SIGNALS (UNTIL SILENCE)	NO	NO	YES	NO	NO	YES
ACTIVATE VISUAL ALARM SIGNALS (UNTIL RESET)	NO	NO	YES	NO	NO	YES
REPORT TO CENTRAL STATION	YES	YES	YES	NO	YES	YES
ANNUNCIATE AT REMOTE ANNUNCIATOR PANEL	YES	YES	YES	YES	YES	YES
SHUTDOWN HVAC UNIT	NO	NO	NO	NO	NO	NO
EVAC SYSTEM	NO	YES	YES	NO	NO	YES



FIRE ALARM DEVICE ELEVATION



- UPON ACTIVATION OF THE NOTED AREA SMOKE DETECTOR
  - THE AREA SMOKE DETECTOR INITIATES AN ALARM CONDITION AT THE FACP
  - WIRING FROM THE OUTPUT TERMINALS OF THE FACP ENERGIZES THE CONTROL MODULE ASSOCIATED WITH THE HVAC UNIT SERVING THE AREA.
  - CONTACTS IN THE CONTROL MODULE CLOSE TO ALLOW VOLTAGE TO THE HVAC UNIT SHUTDOWN TERMINALS (VIA RELAY MR-101/C).

HVAC UNIT SHUTDOWN

KEY NOTES

- SEE FIRE ALARM FLOOR PLAN E2.1 FOR CIRCUIT ASSIGNMENT. NUMERAL ADJACENT INDICATES QUANTITY OF DEVICES.
- LABEL ON THE INSIDE OF THE FRONT DOOR THE PANEL & CIRCUIT FOR 120V POWER.
- EXTEND EXISTING TELEPHONE LINE AND 120V CIRCUIT.
- REPLACE/UPGRADE EXISTING GAMEWELL-FCI MAIN FIRE ALARM CONTROL PANEL WITH NEW GAMEWELL-FCI SERIES VOICE/EVAC PANEL INCLUDING AMPLIFIER AND DIGITAL COMMUNICATOR FOR REMOTE MONITORING. RE-CONNECT EXISTING 120V CIRCUIT, TELEPHONE LINES AND ALL EXISTING FIRE ALARM WIRING PER FIELD CONDITION. PROGRAM NEW PANEL TO ACCOMMODATE ALL EXISTING FIRE ALARM DEVICES. TEST/CERTIFY INSTALLATION INCLUDING EXISTING DEVICES AS REQUIRED BY DSA.
- REPLACE/ADD EXISTING REMOTE ANNUNCIATOR AND PULL STATION RECESSED WALL MOUNTED IN ADMIN AREA AND RUN 3/4" CONDUIT WITH FIRE ALARM WIRING TO NEW FIRE ALARM PANEL. RUN CONDUIT CONCEALED IN WALL AND CEILING.

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- STRUCTURAL
- MECHANICAL
- ELECTRICAL
- CIVIL



NO	DATE	BY	DESCRIPTION
△	07/21/17	PP	ADDENDUM 4
△	07/06/17	PP	ADDENDUM 3
REVISIONS			

DRAWN: NR CHECKED: GW

DATE: 04/25/2017 SCALE:

PROJECT NUMBER: 1615400

**FIRE ALARM**  
**CALCULATIONS & RISER**  
**DIAGRAM**

DRAWING NUMBER: **E5.2**