FIRE ALARM SYMBOL LIST

| SYMBOL | DESCRIPTION | CSFM |
|----------|--|---------------|
| FARP | FIRE ALARM REMOTE PANEL SIEMENS MXL PSR-1 (EXISTING) | 7300-0067:15 |
| NAC | NAC POWER EXTENDER WHEELOCK PS-12/24-8MP (EXISTING) | 7315-0785:16 |
| FAA | FIRE ALARM ANNUNCIATOR SIEMENS RCC-1 (EXISTING, RELOCATED) | 7300-0067:15 |
| F | MANUAL FIRE ALARM PULL STATION SIEMENS MSI-10B | 7150-0067:03 |
| s | SMOKE DETECTOR SIEMENS FP-11 | 7272-0067:20 |
| <u>s</u> | DUCT SMOKE DETECTOR SIEMENS AD2-XHR | 3240-0067: 24 |
| ĉ. | FIRE ALARM HORN/STROBE - # DENOTES CANDELA WHEELOCK ZNS-MCW | 7125-0785:14 |
| Ê | FIRE ALARM STROBE - # DENOTES CANDELA WHEELOCK ZRS-MCW | 7125-0785:14 |
| ¥ | FIRE ALARM HORN WHEELOCK ZNH-24 | 7125-0785:14 |
| EOL | END OF LINE RESISTOR | |

FIRE ALARM SYSTEM NOTES

- THE FIRE ALARM SYSTEM IS AN AUTOMATIC ADDRESSABLE, POWER-LIMITED FIRE ALARM SYSTEM. MANUAL PULL STATIONS ARE PROVIDED AT ALL EXITS. SMOKE DETECTORS ARE PROVIDED FOR THE HYAC SYSTEM AND TO PROTECT THE FIRE ALARM CONTROL UNITS.
- 2. CLASS B. STYLE 4 SLC SYSTEM.
- NOTIFICATION APPLIANCE CIRCUITS ARE CLASS B, STYLE Y.
- MINIMUM CONDUIT SIZE TO BE 3/4" FOR FIRE ALARM SYSTEM.
- 10% MAXIMUM VOLTAGE DROP AND 80% MAXIMUM CURRENT ALLOWED FOR NOTIFICATION APPLIANCE CIRCUITS.
- 6. LISTING NUMBERS FOR EACH COMPONENT HAVE BEEN APPROVED BY DSA. UPON COMPLETION OF THE INSTALLATION, A TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE DSA INSPECTOR OF RECORD.
- 7. UPON COMPLETION OF SYSTEM INSTALLATION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF AND IN A MANNER ACCEPTABLE TO DSA/PROJECT INSPECTOR. THE CONTRACTOR MUST SUPPLY NECESSARY TESTING EQUIPMENT INCLUDING A "SOUND LEVEL METER" TO CHECK ACCEPTABLE DECIBLE LEVELS OF AUDIBLE DEVICES. PROVIDE TEST RESULTS PER THE MEPA 72 "RECORD OF COME STOM!" TO ABOUTETED THE DESCRIPTION TO ABOUTETED THE DESCRIPTION TO ABOUTETED THE DESCRIPTION. COMPLETION" TO ARCHITECT, DSA, PROJECT INSPECTOR, OWNER, AND TO THE LOCAL FIRE
- 8. THE "END OF LINE RESISTANCE" FOR EACH CIRCUIT SHALL BE TESTED IN THE PRESENCE OF THE PROJECT INSPECTOR AND SHALL NOT EXCEED A MAXIMUM OF 10% OF THE 24 VOLT SYSTEM, EACH COMPONENT IN THE CIRCUIT SHALL NOT EXCEED THE COMPONENT IN THE CHICUIT SHALL NOT EXCEED THE USTED MANUFACTURER'S MINIMUM OPERATING VOLTAGES. SEE NEPA 72, LOOP RESISTANCE. THIS SECTION REQUIRES THAT ALL INITIATING AND INDICATING (NOTIFICATION APPLIANCE) CIRCUITS TO BE MEASURED AND RECORDED.
- 9. PENETRATIONS OF ALL FIRE-RESISTIVE WALLS SHALL BE PROTECTED IN ACCORDANCE WITH THE CALIFORNIA BUIDING CODE.
- CALIFORNIA BUIDING CODE.

 10. ALARM INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEYEL OF AUDIBLITY OF NOT LESS THAN BUILDING OF THE MAXIMUM SOUND LEVELS OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAYING A DURATION OF 60 SECONDS WHICH—EVER IS GREATER MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS WEANS THE LEVEL THAT CAM BE NORMALLY EXPECTED WHEN THE FACILITY, BUILDING, ROOM, OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OF WORKING CONDITIONS (NFPA 72, SEC. 7.4.2).
- 11. THE ALAM SYSTEM SHALL ACTIVATE A MEANS OF WARNING TO ALERT THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEDING 2 FLASHES PER SECOND (2 HZ) NOR BE LESS THAN ONE FLASH PER SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHAL APPROVED AND LISTED (NFPA 72, SEC. 7.5.2). STROBES SHALL BE SYNCHRONIZED.

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THROUGH-PENETRATION FIRESTOP SYSTEMS (XHEZ)

SYSTEMS NO. CP25WB+ CAULK ONLY (FORMERLY SYSTEM NO. 147A) F RATINGS--1,2,3 AND 4 HR (SEE ITEMS 2 AND 3) T RATINGS--0,1,2,3 AND 4 HR (SEE ITEM 3) 3 SECTION A-A

- 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 U.L. Fire Resistance Directory and shall include the following construction features:
- A Studs-Wall framing may consist of either wood studs (max 2 hr fire rated assemblies) or steel channel studs. Wood studs to consist of nominal 2 by 4 in. Immber goocal 16 in. Oc with nominal 2 by 4 in. Immber end plates and cross braces. Steel studs to be minimum 3-5/8 in. wide by 1-3/8 in. deep channels spaced max. 24 in. O.C.
- 3 Wollboard, Opsum* -nom 1/2 or 5/8 in thick, 4 ft. wide with square or tapered edges. The gypsum wollboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual 1900 or 1400 Series Design in the U.L. Fire Resistance Directory. Maximum diameter of opening is 13–1/2 in.
- 2. Pipe or Conduit-Nom 12 in. dia. (or smaller) Schedule 10 (or heavier) steel pipe, nom. 6 in. dia. (or smaller) steel conduit, nom. 4 in. dia. (or smaller) steel Electrical Metallic Tubing or Type I. (or heavier) copper tubing or nom 1 in. dio. (or smaller) flexible steel conduit. When copper pipe or flexible steel conduit is used, max F Rating of frestop system (item 3) is 2 in. Steel pipes or conduits larger than nom 4 in. dia, may only be used in wills constructed using steel channel studs. A max of one pipe or conduit is permitted in the firestop 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 Covity Material* CP2SM94 Coulk Coulk fill material installed to completely fill annular space between pipe or conduit and gpssum wallboard and with a min. 1/4 in. dia, bead of coulk applied to perimeter of pipe or conduit at its egress from the wall. Coulk installed symmetrically on both sides of wall assembly. The hourly Frating of the firestop system is dependent upon the hourly fire rating of wall assembly in which it is installed as shown in the following tools. The hourly rating of the fire stop 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:



+When copper pipe is used, T Rating is 0 hour.

* Bearing the UL Classification Marking.

INSTALLATION NOTES:

- THE FIRE ALARM SYSTEM SHALL CONFORM TO THE ADOPTED EDITIONS OF THE CALIFORNIA ELECTRICAL CODE ARTICLE 760, CALIFORNIA CODE OF REGULATIONS TITLES 19 AND 24, AS APPLICABLE TO THIS PROJECT, AND
- INSTALLATION OF THE 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.
- A MINIMUM OF 48 HOURS NOTICE SHALL BE REQUIRED FOR ANY INSPECTION AND/OR TESTING.
- A STAMPED SET OF APPROVED FIRE ALARM PLANS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DEVATION FROM APPROVED PLANS, INCLUDING THE SUBSITUTION OF DEVICES, SHALL BE APPROVED BY DSA.
- 5. DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF
- 6. A CERTIFICATE OF COMPLIANCE SHALL BE PREPARED BY THE INSTALLER AND GIVEN TO THE INSPECTOR UPON COMPLETION OF THE INSTALLATION.
- 7. ALL FIRE ALARM CIRCUITS ARE CONTINUOUS FROM DEVICE TO DEVICE. SPLICES
 ARE NOT ALLOWED UNLESS IN COVERED JUNCTION BOXES ON APPROVED
 TERMINAL BLOCKS, WHEN SPLICING TSP, IT IS NECESSARY THAT ALL SUCH IEMBINNA, BULDAS, WHEN SPLICING 154", II IS NECESSARY THAT ALL SUCH CONNECTIONS BE SOURSEED (RESN-CORE SOLDER), CRIMED IN MENTAL SLEEVES, ENCAPSULATED WITH AN EPOXY RESIN OR JOINED BY WIRE NUTL WHEN SOLDER OR CRIMED METAL SLEEVES ARE USED, THE JUNCTION MUST BI INSUATED WITH A HIGH GROLE ELECTRICAL TAPE AS SOLDIES AND AS THE ORIGINAL INSUATING JACKET. CONTINUTY OF THE SHELD WISSIAND AS AND THE ORIGINAL INSUATING JACKET. CONTINUTY OF THE SHELD WISSIAND AS THE ORIGINAL INSUATING JACKET.
- 8. NUMBER ADJACENT TO ADDRESSABLE DEVICES INDICATES SLC# AND ADDRESS, NUMBER ADJACENT TO NOTIFICATION APPLIANCES INDICATES CIRCUIT NUMBER AND DEVICE SEQUENCE, E.G., NA1-7 IS THE 7TH DEVICE ON CIRCUIT A1.
- THE FIRE ALARM SIGNALS SHALL BE DISTINCTIVE IN SOUND FROM ANY OTHER SIGNALS AND THAT THIS SOUND NOT BE USED FOR ANY OTHER PURPOSE. TO MEET THIS REQUIREMENT, THE FIRE ALAMS SIGNAL USED TO NOTIFY BUILDING OCCUPANTS OF THE MEED TO EVACUATE (LEAVE THE BUILDING) SHALL MATCH EXISTING SOUND & PATTERN.
- AREA SMOKE DETECTORS SHALL NOT BE LOCATED CLOSER THAN 3'-0" FROM:
- (a.) THE DOOR TO A KITCHEN OR A BATHROOM CONTAINING A TUB OR SHOWER.
 (b.) SUPPLY REGISTERS OF A FORCED AIR HEATING OR COOLING SYSTEM.
- 11. ALL EXTERIOR AND UNDERGROUND CONDUIT SHALL BE WATERTIGHT

FIRE ALARM ADDRESS LEGEND

XXX-###
DEVICE ADDRESS

WHERE: XXX = LOOP NUMBER

WIRE SCHEDULE

A 1 PAIR #16 TWISTED AND SHIELDED

B 1 PAIR #14

BC A

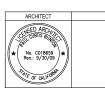
SCOPE OF WORK

WALL TYPE

FIRE RATED WALL

architecture planning interiors

Bunton Clifford Associates, Inc. Fremont, California 94539 [T] 510.445.1000 [F] 510.445.1005 www.BCAincOnline.com



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| STATUS | DSA BACK CHECK | 06/04/08 |
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BUILDING 8 PHASE 2 RENOVATION PROJECT

San Mateo County Community College District

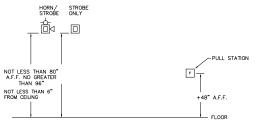
CAÑADA COLLEGE 4200 Farm Hill Boulevard Redwood City, CA 94061

FIRE ALARM SYMBOL LIST. NOTES. MATRIX & DRAWING INDEX

Drawing Number 06/12/08

AS NOTED Project Number 07014

FA0.1



1 MOUNTING HEIGHT REQUIREMENTS NO SCALE

FIRE ALARM MONITORING NOTE

AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NPPA 72 AS AMENDED BY ARTICLE 91. THE SUPERVISING STATION HALL BE LISTED AS EITHER UUFX OR UIUS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD JOHN SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OMNER.

NOTE: LETTER DESIGNATION INDICATES CABLE TYPE. NUMBER O HASH MARKS INDICATES QUANTITY OF CABLES. E.G., ————, INDICATES TWO, #18 TSP CABLES.

DRAWING INDEX

FAO.1 FIRE ALARM SYMBOL LIST, NOTES, MATRIX & DRAWING INDEX

FA3.1 1ST AND 2ND FLOOR PLAN - FIRE ALARM

FA4.1 FIRE ALARM RISER DIAGRAM AND CALCULATIONS

FIRE ALARM SYSTEM OPERATIONAL MATRIX

9 9 9

CAUSE

SPOT TYPE SMOKE DETECTOR

NOTES: 1. SHUT DOWN BY ASSOCIATED DETECTORS ONLY

DUCT SMOKE DETECTOR

MANUAL PULL STATION

SYSTEM SILENCE SYSTEM RESET

POWER FAILURE FIRE ALARM TROUBLE (OPEN, OR GROUNDS) ON INITIATION OR SIGNAL CIRCUITS