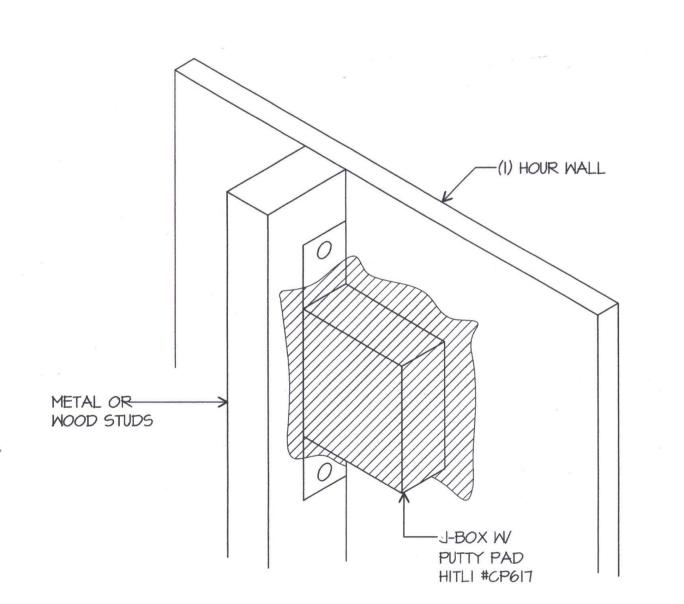
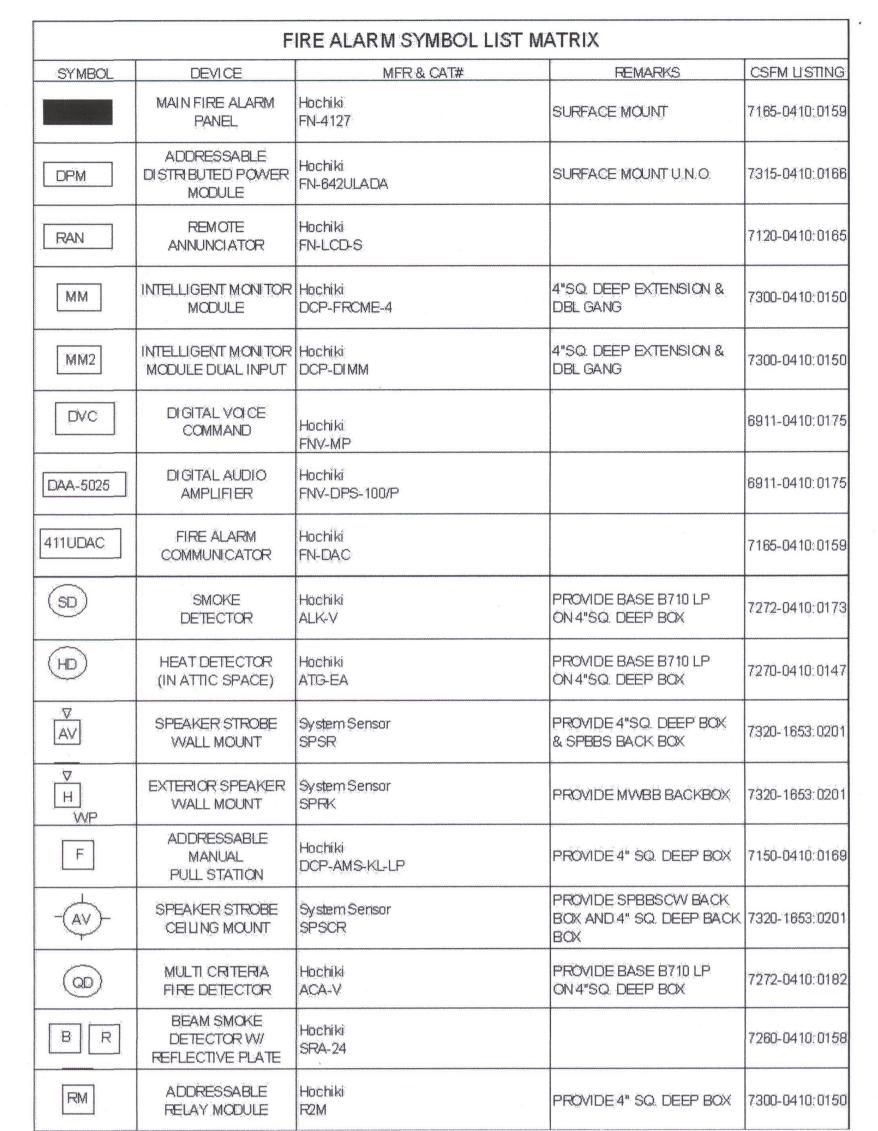


SCALE: NONE U.L W-L-1001

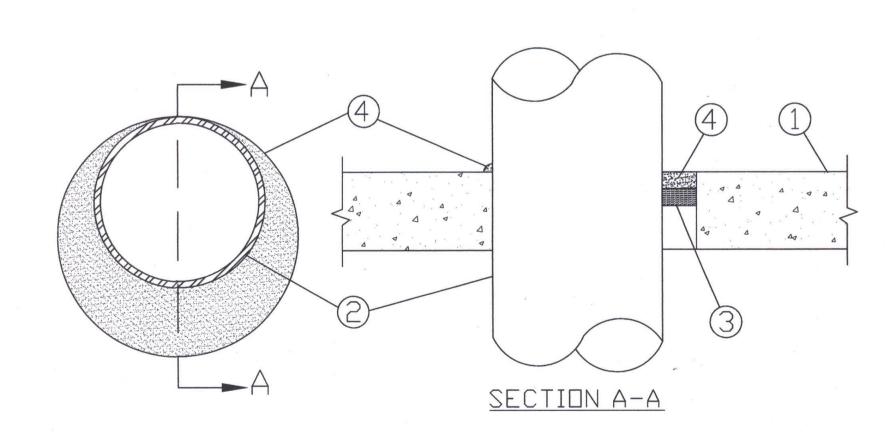


J-BOX FIRESTOP DETAIL SCALE: NONE



THIS MATERIAL WAS EXTRACTED BY 3M FIRE PROTECTION PRODUCTS FROM THE 2004 EDITION OF THE UL FIRE RESISTANCE DIRECTORY.

> System No. C-AJ-1001 June 15, 2005 F Rating - 3 Hr T Rating - 0 Hr W Rating - Class I (See Item 4)



BLOCK WALL FIRE BARRIER DETAIL U.L. LISTING C-AJ-1001

GENERAL NOTES

- 1. ALL WIRING SHALL BE IN ACCORDANCE WITH THE 2010 EDITION OF THE CALIFORNIA ELECTRICAL CODE WITH CALIFORNIA AMENDMENTS AND APPLICABLE STATE CODES.
- 2. INITIATION DEVICE CIRCUITS ARE RATED POWER LIMITED. MINIMUM RECOMMENDED WIRE SIZE IS LISTED.
- 3. CONTROL CIRCUITS ARE NON POWER LIMITED. MINIMUM RECOMMENDED WIRE SIZE TO BE DETERMINED BY CIRCUIT LOAD.
- 4. ALL INSTALLATION MATERIAL SUCH AS CONDUIT FITTING, BOXES, AND HANGERS, ETC. SUPPLIED BY CONTRACTOR.
- 5. FOR ADDRESSABLE SYSTEM, IDENTIFYING NUMBERS ADJACENT TO DETECTOR SYMBOL DENOTES DEVICE ADDRESS, DETECTOR 1203 WOULD IDENTIFY DEVICE ADDRESS (03) LOOP 12.
- 6. T-TAPPING OR PARALLEL BRANCHING OF ADDRESSABLE INITIATION DEVICE CIRCUITS IS PERMITTED ON CLASS B CIRCUITS ONLY.
- 7. WHERE SHIELDED CABLE IS USED, THE SHIELD SHALL BE CONTINUOUS AND GROUNDED ONLY AT THE RESPECTIVE CONTROL PANEL.
- 8. ALL WIRE RUNS ARE SHOWN DIAGRAMMICALLY. EXACT LOCATION OF ALL EQUIPMENT TO BE DETERMINED IN THE FIELD.
- 9. REFER TO RESPECTIVE CATALOG CUT SHEETS FOR ELECTRICAL MOUNTING HARDWARE.
- 10. PHOTOELECTRIC DETECTORS SHALL NOT BE IN DIRECT AIR STREAM SUPPLY AIRE OUTLETS.
- 11. ADA STROBES TO BE MOUNTED 80" FROM BOTTOM OF LIGHT DETAIL SOURCE A.F.F. OR 6" BELOW CEILING WHICH EVER IS LOWER.
- 12. ELECTRICAL CONTRACTOR IS REQUIRED TO USE: COLOR CODE, WIRE NUMBERS, OR AS SPECIFIED IN THE PROJECT SPECIFICATIONS ON ALL CIRCUITS AND SHALL BE CONTINUOUS, OTHERWISE, NO FINAL CONNECTIONS OR TESTING SHALL BE PERFORMED. IF WIRE COLOR CODING IS USED, GREEN WILL BE USED FOR GROUND BONDING

RDM Electric - 12/26/12 Reference Sheet A234A, E007, E131A & T201A 1. The Electrical Plan for Building A shows (3) speaker strobes to be installed on the west wall of the Gym (A108) where the bleachers are to be installed. Per the Fire Alarm legend these devices are to be installed at +86" AFF. Can these devices be raised to avoid conflict with any people seated at the top of the bleachers? If so, please provide a new mounting height. 2. The Telecom Plan for Building A shows a PA speaker/clock combo and an audio sensor to be installed on the west wall of the Gym (A108) where the bleachers are to be installed. Can these devices be raised to avoid conflict with any people seated at the top of the bleachers? If so, please provide a new mounting height. Ed Hewitt - OMA - 1/2/13 Contractor proposed solution is acceptable, mount devices in room A108 at +12'-0".

- 13. ALL WIRING, INITIATING DEVICES AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION.
- 14. WIRING SHALL NOT BE LOOPED THROUGH DEVICES; WIRING MUST BE CUT FOR IN & OUT.
- 15. POINT AND COMMON ANNUNCIATION AND T-TAPPING PROHIBITED
- 16. AUDIBILITY OF ALARM SHALL BE NOT LESS THEN 15db ABOVE AMBIENT SOUND THROUGHOUT AREA OF ALARM AND SHALL NOT EXCEED 110 dba.
- 17. ALL DEVICES IN THE ALARM SYSTEM SHALL BE COMPATIBLE & INSTALLED TO MANUFACTURES SPECIFICATIONS.
- 18. NEW FIRE ALARM EQUIPTMENT CABINET SHALL BE MOUNTED NO HIGHER THAN 6'6" TO TOP OF CABINET FROM FINISH FLOOR.
- 19. AUTHORIZED STOCKING DISTRIBUTOR SHALL HAVE NICET LEVEL 2 CERTIFICATION, MINIMUM AND SHALL BE LOCATED WITH-IN 60 MILES OF PROJECT.
- 20. ALL CIRCUIT BREAKERS FOR FIRE ALARM DEVICES SHALL BE DEDICATED, RED IN COLOR "LOCK ON" TYPE AND THEIR LOCATION IDENTIFIED AT FIRE ALARM CONTROL UNIT. PERMANENTLY LABEL AS "FIRE ALARM CIRCUIT".
- 21. IN THE EVENT THAT THE EXISTING FIRE ALARM SYSTEM IS OUT OF SERVICE FOR MORE THAN FOUR HOURS, KHSD SHALL BE NOTIFIED AND AN APPROVED FIRE WATCH SHALL BE PROVIDED FOR THE CAMPUS.
- 22. ALL FIRE ALARM CONDUCTORS SHALL BE ROUTED IN CONDUIT. RGSC SHALL BE USED FOR EXPOSED INSTALLATIONS BELOW 10FT.
- 23. ALL CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMAN-LIKE MANNER. CONDUITS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO STRUCTURAL MEMBERS.

SCOPE OF WORK

THIS IS A COMPLETELY AUTOMATIC AND ADDRESSABLE SYSTEM. INSTALL DEVICES AS SHOWN IN EQUIPMENT LEGEND AND FLOORPLANS OF THIS DRAWING PACKAGE. UPON COMPLETION A COMPLETE PRETEST SHALL BE PERFORMED TO VERIFY FUNCTIONALITY. IF THE FUNCTIONALITY IS COMPLETE THEN THE PROPER DOCUMENTATION SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION PRIOR TO SCHEDULING A FINAL INSPECTION.

DEVICE NUMBERING LEGEND

FOR ADDRESSABLE ALARM INITIATING DEVICES FOR ALARM INDICATING DEVICES EXAMPLE: AV

NA1−1 (SD) 1-01 (DEVICE ADDRESS) DEVICE REFERENCE NUMBER DEVICE REFERENCE NUMBER --- INITIATING LOOP DESIGNATION ---- INDICATES FLOOR --- DEVICE SYMBOL --- INDICATES CIRCUIT DESIGNATION ---- INDICATES TYPE OF CIRCUIT ABOVE EXAMPLE MEANS 1st DEVICE ON LOOP (S = STROBE, H = SPEAKER)--- DEVICE SYMBOL ABOVE EXAMPLE MEANS NOTIFICATION CIRCUIT A1, DEVICE #1

1. Floor or Wall Assembly - Min 4-1/2 in. (114 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of circular through opening is 32-1/2 in.

See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

1A. Steel Sleeve (Optional, not shown) - Nom 12 in. (305 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe sleeve cast into concrete floor or wall. Sleeve to be flush with or project max 2 in. (51mm) from top surface of floor or from both surfaces of wall.

2. Through Penetrant - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm)(point contact) to max 1-3/8 in. (35 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe - Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel A1. Iron Pipe - Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe. B. Conduit - Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit. C. Conduit - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.

3. Packing Material - Polyethylene backer rod or nom 1 in. (25 mm) thickness of tightly-packed ceramic (alumina silica) fiber blanket, mineral wool batt or glass fiber insulation material used as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of solid concrete or concrete block wall as required to accommodate the required thickness of caulk fill material (Item 4). As an alternate when max pipe size is 10 in. (254 mm) diam and when max annular space is 1 in. (25 mm), a min 1 in. (25 mm) thickness of tightly-packed ceramic fiber blanket or mineral wool batt packing material may be recessed min 1/2 in. (13 mm) from bottom surface of floor or from either side of solid concrete wall.

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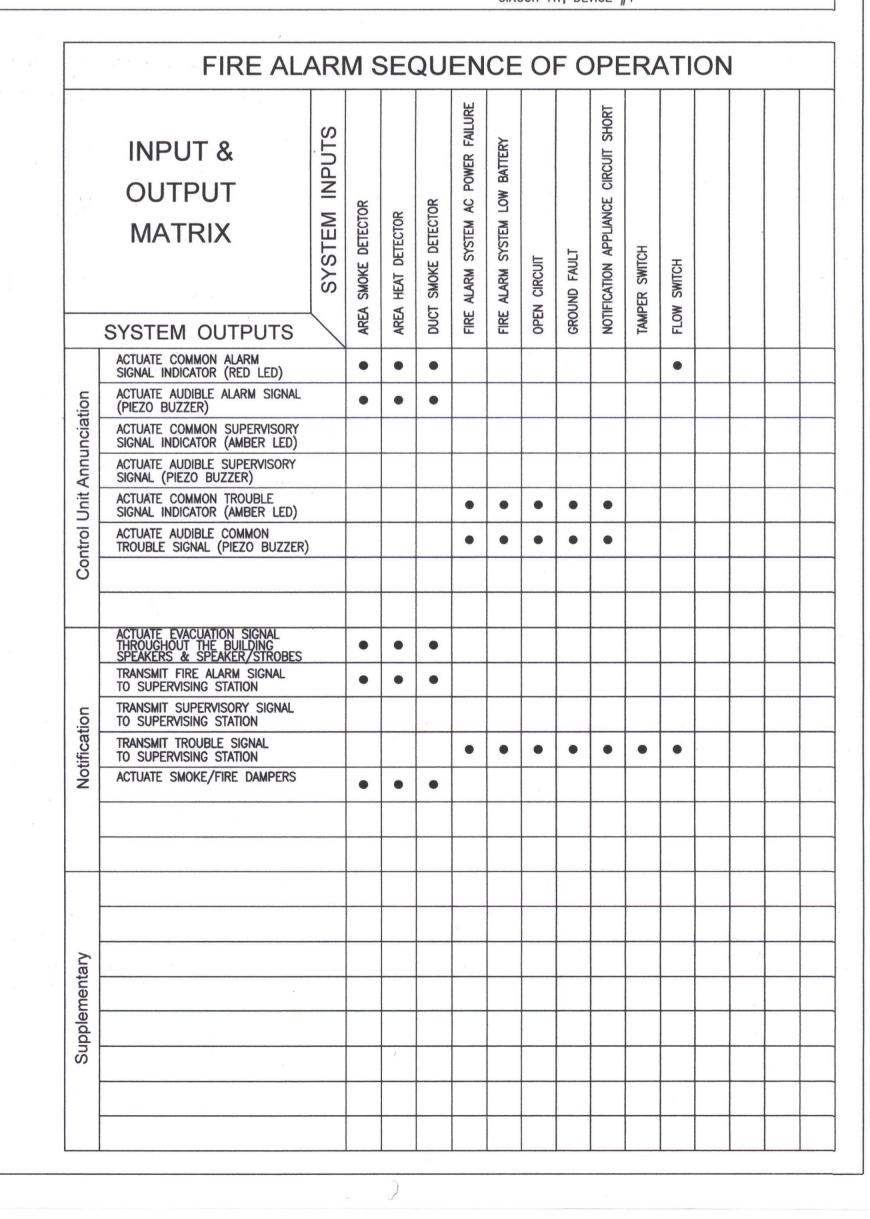
the min thick	ness shown in	Caulk or Sealant - A the following table		9
Max Pipe	Max Annular	Packing Matl Type (a)	Min Caulk	
Diam in. (mm)	Space in. (mm)	(a)	Thkns in. (mm)	
10 (254)	1 (25)	BR, CF, GF or MW	1/2 (13) (b)	
10 (254)	1 (25)	CF or MW	1/2 (13) (c)	14
30 (762)	2-1/2 (64)	BR, CF, GF or MW	1 (25) (b)	

(a) BR = Polyethylene backer rod. CF = Ceramic fiber blanket.

GF = Glass fiber insulation. MW = Mineral-wool batt. (b) Caulk installed flush with top surface of floor or both surfaces of wall. (c) Caulk installed flush with bottom surface of floor or one surface of solid (non-concrete block) wall.

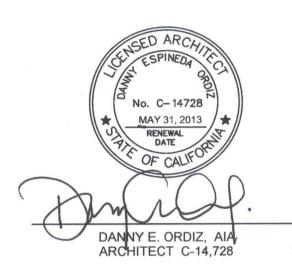
3M COMPANY - CP 25WB+ caulk or FB-3000 WT sealant. (Note: W Rating applies only when FB-3000 WT sealant is used.)

*Bearing the UL Classification Marking

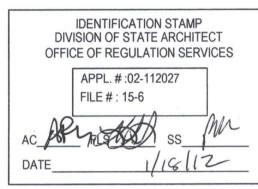


ARCHITECTS, INC.

> SUITE 280 5500 MING AVENUE BAKERSFIELD, CALIFORNIA (661) 832-5258 (661) 832-4291 **FACSIMILE**



CONSULTANT



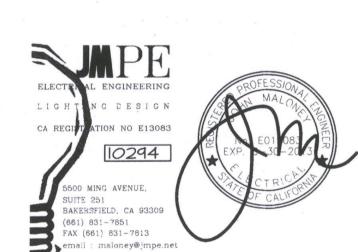
NEW ELEMENTARY SCHOOL 9801 HIGHLAND KNOLLS DR BAKERSFIELD CALIFORNIA 93306

NEW MIDDLE SCHOOL 4115 VINELAND ROAD BAKERSFIELD **CALIFORNIA** 93306

FOR:

BAKERSFIELD CITY SCHOOL DISTRICT 1300 BAKER STREET

BAKERSFIELD **CALIFORNIA** 93305



MARK DATE

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JOB NUMBER: 20101244

CAD DRAWING FILE: CHECKED BY:

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DESCREPANCIES TO THE ARCHITECT

THE DRAWINGS, IDEAS, AND DESIGNS REPRESENTED ON THIS SHEET ARE THE PROPERTY OF THE ARCHITECT. ORDIZ-MELBY ARCHITECTS, INC. 2010

SHEET TITLE FIRE ALARM **GENERAL NOTES**

& SYMBOLS

SHEET IDENTIFICATION NUMBER

E-007

SHEET OF

SCALE: NONE