# Drawing Example

Physical Address Drive
City, State Zip Code

## SCOPE OF WORK

UPGRADE EXISTING FIRE ALARM SYSTEM IN EXISTING BUILDING LOCATED AT:
Project Name
INCLUDING: XX REMOTE POWER SUPPLIES,
XX HORN STROBES AND XX STROBES
EXISTING DEVICES INCLUDE: XX PULL STATIONS
XX SMOKE DETECTORS, XX HEAT DETCTORS, XX DUCT DETCTORS, XX HORNSTROBES AND XX INPUT MODULES

## CLASSIFICATION OF THIS FIRE ALARM SYSTEM

THE FIRE ALARM SYSTEM IS POWER LIMITED
THE FIRE ALARM SYSTEM IS IN CONDUIT WHERE REQUIRED BY NEC
CONDUIT FILL NOT TO EXCEED 40%

## COMPLIANCE

THE DESIGN AND INSTALLATION OF THE FIRE ALARM SYSTEM
SHALL COMPLY WITH THE NFPA - 72 2002 EDITION,
THE NFPA-70 NATIONAL ELECTRICAL CODE (NEC) 2005 EDITION,
THE FLORIDA BUILDING CODE 2005 EDITION, THE NFPA-101 2006 EDITION

## BUILDING DESCRIPTION

THIS IS A TWO STORY BUILDING
THIS BUILDING IS 100% SPRINKLERED
CEILING HIEGHT IS XX FEET ON FIRST FLOOR
CEILING HIEGHT IS XX FEET ON SECOND FLOOR
CEILING TYPE IS

## SEQUENCE OF OPERATION

ALARM CONDITION

UPON ACTIVATION OF ANY MANUAL STATION, OR SMOKE DETECTOR OR WATER FLOW THE FOLLOWING SHALL OCCUR:

1. HORN/STROBES WILL ACTIVATE UNTIL SILENCED
2. THE FACP & ANNUNCIATOR SHALL DISPLAY THE DEVICE OR ZONE IN ALARM.
3. AN ALARM SIGNAL SHALL BE SENT TO THE CENTRAL STATION VIA DACT.

TROUBLE CONDITION

ANY OPEN LOOP,GROUND FAULT,SHORT CIRCUIT,MISSING DETECTOR AND/OR MODULE WILL GENERATE A TROUBLE AND THE FOLLOWING SHALL OCCUR:

1. THE FACP SHALL DISPLAY THE DEVICE, ZONE OR NOTIFICATION LOOP IN TROUBLE.
2. TROUBLE INDICATOR HORN WILL SOUND UNTIL SYSTEM IS SILENCED.
3. A TROUBLE SIGNAL SHALL BE SENT TO THE CENTRAL STATION VIA DACT.

## SEQUENCE OF OPERATION (cont)

SUPERVISORY CONDITION

UPON ACTIVATION OF FIRE SPRINKLER TAMPER
THE FOLLOWING SHALL OCCUR

1. TROUBLE SOUNDER IN FACP SHALL ACTIVATE UNTIL SILENCED.
2. THE FACP & ANNUNCIATOR SHALL DISPLAY THE DEVICE OR ZONE IN SUPERVISORY CONDITION.
3. A SUPERVISORY SIGNAL SHALL BE SENT TO THE CENTRAL STATION VIA DACT

SPRINKLER BELL OPERATION NOTE

A. FLOW BELL SHALL SOUND UPON ACTIVATION OF FLOW SWITCH ONLY.
B. FLOW BELL SHALL SOUND AS LONG AS WATER IS FLOWING.
C. FLOW BELL SHALL NOT BE CAPABLE OF BEING SILENCED FROM FACP.

## SYSTEM NOTES

FIRE ALARM SYSTEM CONSISTS OF XX DEVICES
ALL DEVICES ARE NEW
ALL EQUIPMENT AND DEVICES USED IN THE FIRE ALARM SYSTEM ARE COMPATIBLE
INITIATING DEVICE CIRCUITS SHALL BE
CLASS "B" STYLE "4"
NOTIFICATION APPLIANCE CIRCUITS SHALL
BE CLASS "B" STYLE "Y"
THE FIRE ALARM SYSTEM IS IN CONDUIT WHERE REQUIRED BY NEC
CONDUIT FILL NOT TO EXCEED 40%
FACP LOCATED IN AIR CONDITIONED SPACE
MAX # OF INITIATING DEVICES PER SLC IS
XX MODULES AND/OR PULL STATIONS AND XX SMOKE DETECTORS
MAX CURRENT DRAW ON EACH NOTIFICATION APPLIANCE CIRCUIT FOR SK5820XL PANEL
XX AMPS FOR A TOTAL OF XX AMPS
MAX CURRENT DRAW ON EACH NOTIFICATION APPLIANCE CIRCUIT
FOR NAC BOOSTER PANELS IS XX AMPS MAX FOR A TOTAL OF XX AMPS
FIRE ALARM CONTROL PANEL AMPACITY
120VAC @ XX AMPS
NAC BOOSTER AMPACITY
120VAC @ XX AMPS

## CONTRACTOR NOTES

Guide XHEZ
Through-Penetration Firestop Systems

October 03, 2001
C-AJ-1080-A Card

System No. C-AJ-1080
F-Rating - 3 Hr
T-Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft
L Rating At 400 F - Less Than 1 CFM/sq ft



Section A-A

1. Floor or Wall Assembly - Min 4-1/2 in. thick reinforced lightweight or normal-weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks.* Max diam of opening is 52 in. See Concrete Block (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through Penetrants - One metallic pipe, conduit or tubing to be centered within the firestop system. The annular space shall range from min 0 in. (point contact) to 2 in. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe - Nom 30 in. diam (or smaller) Schedule 5 (or heavier) steel pipe.
   B. Iron Pipe - Nom 30 in. diam (or smaller) cast or ductile iron pipe.
   C. Conduit - Nom 4 in. diam (or smaller) electrical metallic tubing or nom 6 in. diam (or smaller) rigid galvanized steel conduit.
   D. Copper Tubing - Nom 6 in. diam (or smaller) Type M (or heavier) copper tubing.
   E. Copper Pipe - Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
3. Firestop System - The firestop system shall consist of the following:
   A. Packing Material - *(Optional, Not Shown) - Polyethylene backer rod, mineral wool batt insulation or fiberglass batt insulation friction fitted into annular space. Packing material to be recessed from top surface of floor or both surfaces of wall as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material - * - Caulk - Min 1/2 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.

SPECIFIED TECHNOLOGIES INC - SpecSeal 100, 101, 105 Sealant
*Meeting the UL Classification Marking

## Typical Wall Penetration

**FIRE ALARM SYSTEM IN ACCORDANCE WITH NFPA 101 2006 EDITION :**

**SECTION 37.3.4.1 GENERAL:** CLASS A MERCANTILE OCCUPANCIES SHALL BE PROVIDED WITH A FIRE ALARM SYSTEM IN ACCORDANCE WITH SECTION 9.6.

**SECTION 37.3.4.2 INITIATION:** INITIATION OF THE REQUIRED FIRE ALARM SYSTEM SHALL BE BY ON OF THE FOLLOWING MEANS:

(1) MANUAL MEANS PER 9.6.2.1(1)
(2) APPROVED AUTOMATIC FIRE DETECTION SYSTEM THAT COMPLIES WITH 9.6.2.1(2) AND PROVIDES PROTECTION THROUGHOUT THE BUILDING, PLUS A MINIMUM OF ONE MANUAL FIRE ALARM BOX IN ACCORDANCE WITH 9.6.2.5
(3) APPROVED AUTOMATIC SPRINKLER SYSTEM THAT COMPLIES WITH 9.6.2.1(3) AND PROVIDES PROTECTION THROUGHOUT THE BUILDING, PLUS A MINIMUM OF ONE MANUAL FIRE ALARM BOX IN ACCORDANCE WITH 9.6.2.5

**SECTION 37.3.4.3.1 OCCUPANT NOTIFICATION:**
DURING ALL TIME THAT THE MERCANTILE OCCUPANCY IS OCCUPIED, THE REQUIRED FIRE ALARM SYSTEM, ONCE INITIATED, SHALL PERFORM ONE OF THE FOLLOWING FUNCTIONS:

(1) IT SHALL ACTIVATE AN ALARM IN ACCORDANCE WITH 9.6.3 THROUGHOUT THE MERCANTILE OCCUPANCY, AND POSITIVE ALARM SEQUENCE IN ACCORDANCE WITH 9.6.3.4 OR A PRESIGNAL SYSTEM IN ACCORDANCE WITH 9,6,3,3 SHALL BE PERMITTED.
(2) IT SHALL ACTIVATE AN ALARM SIGNAL IN A CONTINUOUSLY ATTENDED LOCATION FOR THE PURPOSE OF INITIATING EMERGENCY ACTION BY PERSONNEL TRAINED TO RESPOND TO EMERGENCIES, AS FOLLOWS:
   (a) EMERGENCY ACTION SHALL BE INITIATED BY MEANS OF LIVE VOICE PUBLIC ADDRESS SYSTEM ANNOUNCEMENTS ORIGINATING FROM THE ATTENDED LOCATION WHERE THE ALARM SIGNAL IS RECEIVED, UNLESS OTHERWISE PERMITTED BY 37.3.4.3.1(2)(c).
   (b) THE LIVE VOICE PUBLIC ADDRESS SYSTEM SHALL BE PERMITTED TO BE USED FOR OTHER ANNOUNCEMENTS, PROVIDED THAT THE EMERGENCY ACTION USE TAKES PRECEDENCE OVER ANY OTHER USE.
   (c) IN LIEU OF LIVE VOICE PUBLIC ADDRESS SYSTEM ANNOUNCEMENTS, PROVIDED THAT THE EMERGENCY ACTION USE TAKES PRECEDENCE OVER ANY OTHER USE.

Fire Alarm Contractor :

Contractor Name

License Holders Name

License XXXXXX

NICET Level

| | | | |
|---|---|---|---|
| FACP | XXXXXXXXXX | Addressable Fire Alarm Control Panel | x |
| FAPS | XXXXXXXXXX | Remote Power Supply | x |
| FANN | XXXXXXXXXX | Remote Annunciator Panel | x |
| | XXXXXXXXXX | Addressable PullStation | x |
| | XXXXXXXXXX | Addressable Photoelectric Smoke Detector | x |
| | XXXXXXXXXX | AHS Addressable Photoelectric Heat Detector | x |
| | XXXXXXXXXX | ADHR Addressable Duct Detector | x |
| | XXXXXXXXXX | Horn Strobe Ceiling Mount | x |
| | XXXXXXXXXX | Horn Strobe Wall Mount | x |
| | XXXXXXXXXX | Strobe Wall Mount | x |
| IM | XXXXXXXXXX | MIM Addressable Mini Input Module | x |
| IM | XXXXXXXXXX | Addressable Input Module | x |
| RM | XXXXXXXXXX | Addressable Relay Module | x |
| | Tamper Switch (By Others) | Tamper Switch | x |
| FS | Flow Switch (By Others) | Flow Switch | x |
| | XXXXXXXXXX | 6", 24VDC Flow Bell | x |
| | XXXXXXXXXX | Surge protector | x |
| | | End of Line Resister | x |
| | Total number of Fire Alarm devices | | xx |

## LEGEND/ EQUIPMENT LIST


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494 S. Atlantic Ave
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Office 321-613-2711
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Project Name
Project Address
City, State Zip Cose

Cover Page

DRAWN: Daniel Conte
CHECKED: Dan
DATE: xx/xx/xxxx
SCALE: NTS
JOB NUMBER: XXXX

SEAL

X OF X SHEETS