EMAIL PLANS TO: PLANREVIEW@OKIESAFETY.COM

File #:
Total Square Foot:
Fee $.03 x FT (Minimum fee- 300.00):
Date:
Mailing Address: 4107 N. Council Road, Bethany OK 73008

PROPERTY INFORMATION	
Building Name:	
Building Address:	
Owner's Name:	
Owner's Address:	Owner's Phone Contact:
Owner's Email :	Owner's Fax:

SYSTEM DESIGNER/CONTRACTOR		
Company Name:		
Company Address:		
Contact Person (Designer):		
Phone #:	Fax #:	Email:

☐ Yes ☐ No	System designed by person who is experienced in the proper design, application, installation, and testing of fire alarm systems per *NFPA 72- 10.4.1 (2016 edition).and licensed through the Department of Labor §1800.1?*
☐ Yes ☐ No	System installer has proper qualifications to install and test fire alarm systems (Department of Labor § 1800.1 per *NFPA 72 -10.5.3 (2010 edition)?*
☐ Yes	Copy of installer's current certification or stamp is provided with submittal?

GENERAL

This proposal represents:

☐ A new system being installed in the building ☐ Modifications to an existing system

☐ Extension of an existing system ☐ Other _____?

Construction Type of Building *(as defined by the International Building Code):*

☐ Type I ☐ Type II ☐ Type III ☐ Type IV (Heavy Timber) ☐ Type V ☐ Mixed

Occupancy(s) Classification of Building (*as defined by the International Building Code*): **Check ALL that apply**

☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ B ☐ E ☐ F-1 ☐ F-2 ☐ H-1 ☐ H-2 ☐ H-3 ☐ H-4 ☐ H-5

☐ I-1 ☐ I-2 ☐ I-3 ☐ M ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4 ☐ S-1 ☐ S-2

System required per 2015 IFC 907.2.1 through 907.2.23: (Check **all** that apply)

☐ **Group A** (manual fire alarm having an occupant load greater than 300)

☐ **Group B** (manual fire alarm having an occupant load greater than 500 or 100 above or below the lowest level of exit discharge)

☐ **Group E** (manual fire alarm system required unless occupant load is below 50)

☐ **Group F** (manual fire alarm system required when building is two (2) or more stories in height and occupant load is 500 above or below the lowest level of exit discharge)

☐ **Group H** (manual fire alarm required in Group H-5 and in occupancies used to manufacture organic coatings. Automatic smoke detection required for highly toxic gases, organic peroxides and oxidizers in accordance with IFC Chapters 37, 39, and 40)

☐ **Group I** (manual fire alarm system required. Smoke detection required in Groups I-1, I-2, and I-3)
☐ **Group M** (manual fire alarm system when occupant load is greater than five hundred (500) or one hundred (100) above or below the lowest level of exit discharge)
☐ **Group R-1** (manual fire alarm system required, automatic fire alarm system required in interior corridors serving sleeping rooms, smoke alarms are required in sleeping rooms)
☐ **Group R-2** (manual fire alarm system required where sleeping units are located three (3) or more stories above the lowest level of exit discharge, any dwelling or sleeping unit is located below the highest level of exit discharge, or the building contains more than 16 dwelling units)

☐ Yes ☐ No	Factory specifications are included for all devices and wiring to be installed with this system?
☐ Yes ☐ No	All rooms are labeled on floor plans that are consistent with final room numbers of each room?
☐ Yes ☐ No	All rooms are labeled on floor plans are in accordance with their usage?
☐ Yes ☐ No	Equipment symbol legend is provided on plans?
☐ Yes ☐ No	Reflected ceiling plan shows location of all other equipment on ceiling? (*i.e., supply registers, return air grills, ceiling fans, etc.)* or anything else that would interfere with the proper operation of the detector?
☐ Yes ☐ No	Location of Fire Alarm Control Panel noted on plans? (FACP) (***To be approved by AHJ***)
☐ Yes ☐ No ☐ N/A	Locations of all Remote Annunciators noted on plans? (RA) (***To be approved by AHJ***)
☐ Yes ☐ No	Locations of ***all*** devices are shown on floor plans?
☐ Yes ☐ No	Locations of all end-of-line resistors and/or end-of-line relays are shown on submitted drawings?
PRIMARY POWER SUPPLY	
The dedicated branch circuit for the fire alarm system is supplied by means defined in NFPA 72 10.5.5.1 (2010 edition): ☐ Commercial light and power ☐ An engine-driven generator ☐ A combination of commercial light and power and an engine-driven generator.	
☐ Yes ☐ No	Dedicated branch circuit will be mechanically protected with a "breaker lock" per NFPA72: 10.6.3 (2016 edition)?
☐ Yes ☐ No	The circuit breaker is painted red and circuit number on the electrical panel schedule is identified as "**FIRE ALARM CIRCUIT**" per NFPA 72: 10.6.2.2 (2016 edition)?
☐ Yes ☐ No	The panel number and circuit number is permanently labeled and locked in the fire alarm control panel NFPA 72: 10.6.5.4 (2016 edition)?
SECONDARY POWER SUPPLY	
☐ Yes ☐ No	Calculations are provided that prove the secondary power has sufficient capacity to operate the fire alarm system under quiescent load for a minimum of 24 hours and at the end of that 24 hours be able to operate all alarm notification appliances for a period of 5 minutes per NFPA 72 10.6.7.2.1.7 (2016 edition)?
☐ Yes ☐ No	If not located within the fire alarm control panel, the location of the batteries being utilized for secondary power shall be marked on the plans and permanently identified at the control unit per NFPA 72 10.6.8 (2016 edition)?
ALARM SYSTEM SUPERVISION	
☐ Central Station System ☐ Proprietary Supervising Station System	

Name of Monitoring Station:		
Contact:		
Address:		
Address:		
Phone:	Fax:	E-mail:

☐ Yes ☐ No ☐ N/A	For sprinklered buildings, all valves controlling the water supply, pumps, tanks, water levels and temperatures, critical air pressures, and water-flow switches are electronically supervised per 2015 IFC 903.4
Wiring and Circuits	
☐ Yes ☐ No ☐ N/A	Fire alarm wiring installed in a plenum space is plenum rated per 2015 IMC 602.2.1.1?
☐ Yes ☐ No	Initiating device circuits are indicated on the submitted drawings per NFPA: 72-23.5 (2016 edition)?
☐ Yes ☐ No	Signaling line circuits are indicated on the submitted drawings per NFPA72- 23.6 (2016 edition)?
Notification Appliances (Ch.18)	
☐ Yes ☐ No	The total sound pressure between the ambient noise level and the fire alarm notification device shall not exceed 110 dBA per NFPA 72:18.4.1.2 (2016 edition)?
☐ Yes ☐ No	The sound level is at least 15 dBA above the average ambient sound level per NFPA 72:18.4.3.5.1(2016 edition)?
☐ Yes ☐ No ☐ N/A	The sound level for **sleeping rooms** is at least 15 dBA above average ambient sound level or 75 dBA measured at the pillow, whichever is greater, and produce a "*low frequency alarm signal*" in accordance with NFPA 72:18.4.5 (2016 edition)?
☐ Yes ☐ No ☐ N/A	Location of visible notification devices installed in **Corridors** (if applicable) are located not more than 15 ft. from the end of a corridor and with a separation not greater than 100 ft. between appliances in accordance with NFPA 72:18.5.5.5.5(2016 edition)?
☐ Yes ☐ No ☐ N/A	Alarm notification devices are installed in all general usage area such as rest rooms, meeting rooms, hallways, lobbies and any other area for common use per ADA 4.28
Initiating Devices	
Manual Fire Alarm Boxes (Pull Stations)	
☐ Yes ☐ No ☐ N/A	No pull stations are installed per exceptions per 2015 IFC Section 907? (*Skip to next section*)
☐ Yes ☐ No ☐ N/A	Manual fire alarm boxes are mounted not more than 5 feet from the entrance to each marked exit per 2015 IFC 907.4.2.1?
☐ Yes ☐ No ☐ N/A	Manual fire alarm boxes are mounted to the travel distance to each pull station does not exceed two hundred feet (200') per 2015 IFC 907.4.2.1?
☐ Yes ☐ No ☐ N/A	The height of pull station shall be a minimum of forty-two inches (42") and maximum of forty-eight (48") above the floor per 2015 IFC 907.4.2.2?
☐ Yes ☐ No ☐ N/A	Grouped exit egress doors greater than forty feet (40') in width are equipped with a manual fire alarm box on each side of the opening within five (5') of each side of the opening per NFPA 72:17.14.8.6(2016 edition)?

☐ Yes ☐ No ☐ N/A	If a "tamper proof" cover is provided, it must be listed for use with the proposed fire alarm box per 2015 IFC 907 4.2.5?
☐ Yes ☐ No ☐ N/A	A single pull station is installed where the fire alarm system is only equipped with automatic detectors or waterflow switches and no other pull stations are installed per NFPA 72:23.8.5.1.2 (2016 edition)?
SMOKE & HEAT DETECTOR COVERAGE (17.5)	
☐ Yes ☐ No	**Total (Complete) Coverage-** ***All*** rooms, halls, storage areas, basements, attics, lofts, spaces above suspended ceilings, and other subdivisions and accessible spaces (NFPA 72:17.5.3.1- 2016 edition)?
☐ Yes ☐ No	**Partial Coverage-** In accordance with appropriate prescriptive spacing and location criteria as required in the (NFPA 72:17.5.3.2- 2016 edition)? The Designer has consulted with the building owner and clearly communicated the limitations of Non-Complete Coverage?
☐ Yes ☐ No	**Selective Coverage-** Detection is not required by Code, but installed to meet performance objectives of building owner **(**NFPA 72: 17.5.3.2-2016 edition)?
☐ Yes ☐ No	**Check "NO" If no smoke detectors are to be installed.**
SLOPED CEILINGS & HIGH CEILINGS (Peaked and Shed) 17.6.3.4 & 17.6.3.5	
☐ Yes ☐ No ☐ N/A	Are detectors located in area of a "ceiling slope of *less than 30 degrees* (slope of more than 1 in 8)? (i.e., **Shed Type**)(If no, skip to next section)NFPA 72:17.6.3.4.1-2016 ?
☐ Yes ☐ No ☐ N/A	Are detectors located in area of a "ceiling slope of *more than 30 degrees* (slope of more than 1 in 8)? (i.e., **Peaked Type**)(If no, skip to next section) 17.6.3.4.1.2-2016Ed?
☐ Yes ☐ No ☐ N/A	*Spacing* and *Location* of detectors in "**Sloped Ceiling**" Areas in accordance with NFPA 72:17.6.3.4.2 (2016 edition)?
☐ Yes ☐ No ☐ N/A	*Spacing* and *Location* of smoke/heat detectors in "**Peaked Type Ceiling**" Areas to be located no more than 4 inches and a maximum of 36 inches from the top of peak in accordance with NFPA 72:17.6.3.4 (2016 edition)?
☐ Yes ☐ No ☐ N/A	Detectors located in "**High Ceiling**" Areas 10 to 30 feet high, heat detector spacing shall be in accordance with NFPA 72:17.6.3.5 (2016 edition)?
RAISED FLOORS and/or SUSPENDED CEILINGS (17.7.3.5)	
☐ Yes ☐ No ☐ N/A	Are detectors located in raised floor or suspended ceiling areas? (If no, skip to next section)
☐ Yes ☐ No ☐ N/A	Detector spacing for *raised floors* shall be in accordance with NFPA 72:17.7.3.5.1 (2016 edition)?
☐ Yes ☐ No ☐ N/A	Detector spacing for suspended ceilings shall be in accordance with NFPA 72:17.7.3.5.2 (2016 edition)?
Smoke Alarms (*Residential Type Occupancies i.e., Apts, Hotels, Ass't Living/Nursing Homes*)	
☐ Yes ☐ No ☐ N/A	Single- or multiple-station smoke alarms for Group R-1 installed in all sleeping areas and in every room leading to the path of egress from the sleeping area to the door leading from the sleeping unit in accordance with 2015 IFC 907.2.11.1?
☐ Yes ☐ No ☐ N/A	Single- or multiple-station smoke alarms for Group R-2, R-3, R-4 and I-1 installed in each room used for sleeping purposes, outside each sleeping area and in each story within a dwelling unit per 2015 IFC 907.2.11.2?
☐ Yes ☐ No ☐ N/A	Primary power for the smoke alarms from building power with a battery backup or connected to the emergency electrical system for Group R-1 per 2015 IFC 907.2.11.6?
☐ Yes ☐ No ☐ N/A	All smoke alarms for Groups R-1, are interconnected per IBC 907.2.11.5?

☐ Yes ☐ No	Audible Appliances (*horns*) are installed in *sleeping areas* and produce a "*low frequency alarm signal*" in accordance with NFPA 72:18.4.5 (2016 edition)?
Smoke-Sensing Fire Detectors (17.7)	
Spot-Type Smoke Detectors	
☐ Yes ☐ No ☐ N/A	A smoke detector is installed at the Fire Alarm Control Panel (s) per NFPA 72:10.4.4 (2016 edition). No other spot-type smoke detectors are to be installed. **Check Yes** and *Skip to next section*.
☐ Yes ☐ No	Ceiling mounted detectors on smooth ceilings are spaced at thirty (30) foot intervals per NFPA 72:17.7.3.2.3.1 or Figure A.17.6.3.1.1(g) (2016 edition)?
☐ Yes ☐ No ☐ N/A	Side wall detectors to be located between the ceiling and 12 inches down from the ceiling to the top of the detector? NFPA 72: 17.7.3.2.1 (2016edition)?
☐ Yes ☐ No ☐ N/A	Ceiling mounted detectors in solid joist and beam construction designed in accordance with NFPA 72:17.7.3.2.4.through 17.7.3.2.4.6 (2016 Edition)?
Air Sampling Type Smoke Detectors (17.7.3.6)	
☐ Yes ☐ No ☐ N/A	No air sampling type smoke detectors are to be installed. *Skip to next section*.
☐ Yes ☐ No ☐ N/A	The location of each sampling port is noted on the plans and spaced and located per spacing of spot-type detectors in accordance with NFPA 72:17.7.6 (2060 edition)?
☐ Yes ☐ No ☐ N/A	Documentation is provided that shows the maximum air sample transport time does not exceed 120 seconds in accordance with NFPA 72:7.6.3.6.2 and manufacturer's listings (2016 edition)?
☐ Yes ☐ No ☐ N/A	System piping for air sampling detectors shall be labeled as "SMOKE DETECTOR SAMPLING TUBE—DO NOT DISTURB" (17.7.3.6.8) at the following locations: ☐ At changes in direction or branches of piping ☐ At each side of penetrations of walls, floors, or other barriers ☐ At intervals on piping that provide visibility within the space, but no greater than 20 feet
Projected Beam-Type Smoke Detectors (17.7.3.7)	
☐ Yes ☐ No ☐ N/A	No projected beam-type smoke detectors are to be installed. *Skip to next section*.
☐ Yes ☐ No ☐ N/A	Detectors are located in accordance with the manufacturer's published instructions in accordance with NFPA 72:17.7.3.7.1 (2016 edition)?
☐ Yes ☐ No ☐ N/A	Documentation is provided showing the effects of stratification have been evaluated in the locating of detectors in accordance with NFPA 72:17.7.3.7.2 (2016 edition)
☐ Yes ☐ No ☐ N/A	The beam length is shown on the plans and it does not exceed the maximum length permitted by the manufacture in accordance with NFPA 72:7.3.7.3 (2016 edition)?
Duct Smoke Detectors (17.7.5.4.2)	
☐ Yes ☐ No ☐ N/A	No duct smoke detectors are to be installed. *Skip to next section*.
☐ Yes ☐ No ☐ N/A	Duct smoke detectors are installed in HVAC units that have a return air capacity greater than two thousand (2000) cfm's per 2015IMC 606.2.1?
☐ Yes ☐ No ☐ N/A	Duct smoke detectors are not installed and the buildings smoke detectors provide protection for the area covered by HVAC system per exception to 2015 IMC 606.2.1?

☐ Yes ☐ No ☐ N/A	Duct smoke detectors are installed where multiple HVAC systems share common supply or return air ducts or plenums with a design capacity greater than two thousand(2000) cfm's per 2015 IMC 606.2.2?
☐ Yes ☐ No ☐ N/A	Duct smoke detectors are installed in each story of the return system that serves two (2) or more stories with a design capacity greater than fifteen thousand (15,000) cfm's per 2015 IMC 606.2.3?
☐ Yes ☐ No ☐ N/A	The duct smoke detector is connected to the fire alarm system per 2015 IBC 907.3.1 and the activation of the detector initiates an audible and visual signal at a constantly attended location?
☐ Yes ☐ No ☐ N/A	The duct detector does not activate an audible and visual signal at a constantly attended location but activates the buildings alarm notification devices per 2008 IBC 907.3.1 exception 1?
Heat-Sensing Fire Detectors (17.6)	
☐ Yes ☐ No ☐ N/A	No heat detectors are to be installed. *Skip to next section*.
☐ Yes ☐ No ☐ N/A	RTI (*Response Time Index*) & Set-Point Temperature listing documentation for spot-type heat detectors included with plan submittal in accordance with NFPA 72:17.6.1.4 (2016 edition)?
☐ Yes ☐ No ☐ N/A	Heat-sensing fire detectors shall be marked with their listed operating temperature and/or where the alarm threshold is field adjustable be marked with their RTI per NFPA 72:17.6.2.2. & 3 (2016 edition)?
☐ Yes ☐ No ☐ N/A	The heat detector is mounted on the bottom of the joist in solid joist construction per NFPA 72:17.6.3.2.2 (2016 edition)?
☐ Yes ☐ No ☐ N/A	The heat detectors are located on the bottom of a beam where the beam is projecting less than 12 inches in depth from below the ceiling and less than 96 inches (8 ft.) on center per NFPA 72:17.6.3.3.2 (2016 edition)?
☐ Yes ☐ No ☐ N/A	Spacing of heat detectors for Beam (17.6.3.2) and Solid Joist Construction (17.6.3.3) are designed in accordance with NFPA 72 (2016 edition)?
☐ Yes ☐ No ☐ N/A	Line-type heat detectors that are mounted on the ceiling or sidewall are not more than 20 inches from the ceiling per NFPA 72:17.6.3.1.3.2 (2016 edition)?
Radiant Energy –Sensing Fire Detectors Detection (17.8)	
☐ Yes ☐ No ☐ N/A	No radiant energy-sensing fire detectors are to be installed. *Skip to next section*. (*Flame Detectors, Spark/Ember Detectors, or Video Image Flame Detection*)
☐ Yes ☐ No ☐ N/A	Documentation is provided showing that the type and quantity of detectors is in accordance with NFPA 72:17.8.2 and 17.8.2.1 (2016 edition)?
☐ Yes ☐ No ☐ N/A	Documentation is provided showing the spacing of detectors in accordance with NFPA 72:17.8.3 / 17.8.4 / 17.8.5 (2016 edition)?
☐ Yes ☐ No ☐ N/A	Line-type detection to be installed in accordance with NFPA:17.6.3.1.3.2 (2016 edition)?
Fire Suppression Systems	
☐ Yes ☐ No ☐ N/A	There is no sprinkler or suppression system to be installed. *Skip to next section*.
☐ Yes ☐ No ☐ N/A	The activation of an automatic fire suppression system shall activate the fire alarm system per NFPA 72:17.13 (2010 edition). This shall include any of the following: Wet-chemical system, Dry-chemical system, Foam systems, Carbon dioxide systems, Halon systems, Clean-agent systems, and Commercial cooking systems?

☐ Yes ☐ No ☐ N/A	Activation of the automatic sprinkler system activates the fire alarm system per 2015 IFC 903.4.2?

The following are monitored for the sprinkler system per 2015 IFC 903.4:

☐ Yes ☐ No ☐ N/A All valves controlling water supply
☐ Yes ☐ No ☐ N/A Water tank level
☐ Yes ☐ No ☐ N/A Water tank temperature
☐ Yes ☐ No ☐ N/A Low air pressure

Fire Pump Controllers	
☐ Yes ☐ No ☐ N/A	The Alarm and Signal Devices on the controller for the fire pump or motor shall activate the fire alarm as required by NFPA 20 7-4.7 (a) (1999 edition)?
☐ Yes ☐ No ☐ N/A	The loss of *any* phase at the line terminals of the motor contactor for the fire pump is monitored per NFPA 20 7-4.7(b)(1999 edition)?
☐ Yes ☐ No ☐ N/A	*Phase reversal* of line terminals to the motor contactor for the fire pump is monitored per NFPA 20 7-4.7(c)(1999 edition)?
☐ Yes ☐ No ☐ N/A	The *alternate source of power* to the fire pump controller is monitored and shall indicate the alarm circuit when the alternate source of power is supplying power to the fire pump controller per NFPA 20 7-4.7(d)(1999 edition)?
☐ Yes ☐ No ☐ N/A	A "pump running signal" on the fire pump shall be permitted to be a supervisory or alarm signal per NFPA 72: 23.8.5.9.1 (2010 edition)?
☐ Yes ☐ No ☐ N/A	Signals, other than "pump running" on the fire pump shall be supervisory signals per NFPA 72:23.8.5.9.2 (2010 edition)?
Door Release Service (17.7.5.6)	
☐ Yes ☐ No ☐ N/A	There is no door release service to be installed. *Skip to next section*.
☐ Yes ☐ No ☐ N/A	Smoke detectors installed and spaced as required by 17.7.3 protecting a room, corridor, and/or enclosed space accomplish door release in accordance with NFPA 72:17.7.5.6.1 (2016 edition)?
☐ Yes ☐ No ☐ N/A	Where smoke door is accomplished directly from the smoke detector, the detector shall be listed for releasing service in accordance with NFPA 72:17.7.5.6.3 (2016 edition)?
☐ Yes ☐ No ☐ N/A	Location and spacing of smoke detectors are installed in accordance with NFPA 72:17.7.5.6.5.1 through 17.7.5.6.6.2 (2016 edition)?
Elevator Recall for Fire Fighters' Service (21.3)	
☐ Yes ☐ No ☐ N/A	There are no elevators to be installed. *Skip to end*.
☐ Yes ☐ No ☐ N/A	Buildings not equipped with a fire alarm system shall have a dedicated fire alarm system control unit and the control unit shall be permanently marked as "ELEVATOR RECALL CONTROL AND SUPERVISOR PANEL" the control unit is shown on the submitted drawings in accordance with NFPA 72:21.3.2 (2010 edition)?
☐ Yes ☐ No ☐ N/A	Lobby smoke detectors are located within 21 feet of the centerline of each elevator door within the elevator bank under control of the detector in accordance with NFPA 72:21.3.5 (2010 edition)?
Elevator Shutdown	
☐ Yes ☐ No ☐ N/A	Heat detectors installed to shut down elevator power are installed within 2 feet of each sprinkler head in accordance with the requirements of Chapter 17 or alternative engineering methods are used as specified in Annex B in accordance with NFPA 72:21.4.2 (2016 edition)?

☐ Yes ☐ No ☐ N/A	Pressure or water flow switches are used to shut down elevator power and the switches are not equipped with time-delay functions in accordance with NFPA 72:21.4.3 (2016 edition)?
☐ Yes ☐ No ☐ N/A	Control circuits for elevator shutdown shall be monitored for the presence of operating voltage and the loss of voltage shall initiate a supervisory signal at the control unit and required remote annunciators in accordance with NFPA 72:21.4.4 (2016 edition)?
☐ Yes ☐ No ☐ N/A	Initiating devices installed per 21.4.2 and 21.4.3 shall be monitored for integrity by the fire alarm control unit in accordance with NFPA 72:21.4.5 (2016 edition)?

Designer

☐ I certify that the information provided in this document is true and accurate.

(Printed Name)

(Signature) Date

(Company Name) License Stamp

(Email and Phone Contact)