

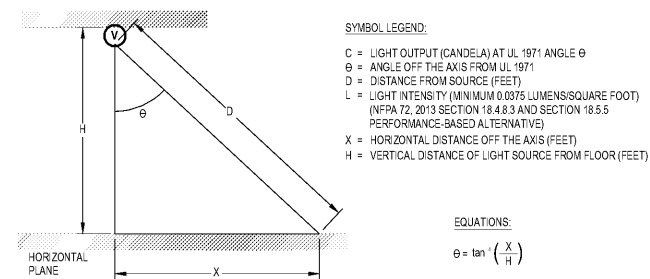
FIRE ALARM MATRIX

	ACTUATES ALARM CONDITION AT FIRE ALARM CONTROL PANEL	ACTUATES ALARM CONDITION AT REMOTE FIRE ALARM ANNUNCIATOR KEYPAD	TRANSMITS GENERAL ALARM SIGNAL TO THE OFF-SITE MONITORING STATION	ACTUATES SUPERVISORY CONDITION AT FIRE ALARM CONTROL PANEL	ACTUATES SUPERVISORY CONDITION AT REMOTE FIRE ALARM ANNUNCIATOR KEYPAD	TRANSMITS SUPERVISORY SIGNAL TO THE OFF-SITE MONITORING STATION	ACTUATES TROUBLE CONDITION AT FIRE ALARM CONTROL PANEL	ACTUATES TROUBLE CONDITION AT REMOTE FIRE ALARM ANNUNCIATOR KEYPAD	TRANSMITS TROUBLE SIGNAL TO THE OFF-SITE MONITORING STATION	BITS DOWN/AFFECTED HVAC UNIT	ACTIVATES INTERIOR AUDIBLE/VISUAL NOTIFICATION APPLIANCES
MANUAL PULL STATIONS											
SMOKE DETECTION DEVICES											
- SPOT TYPE											
- AIR HANDLING UNIT - RETURNS/SUPPLY SIDE											
LOSS OF PRIMARY POWER AT THE FACP											
ABNORMAL CIRCUIT (OPEN, GROUND FAULT, SHORT) OR DEVICE											

FACP BATTERY CALCULATIONS (SILENT KNIGHT 6700)

MODEL NUMBER	DESCRIPTION	QUANTITY	STANDBY POWER		IN ALARM		STANDBY BATTERIES (24-VOLT)	CURRENT (mA)
			CURRENT PER DEVICE (mA)	TOTAL CURRENT (mA)	CURRENT PER DEVICE (mA)	TOTAL CURRENT (mA)		
SILENT KNIGHT 6700	FIRE ALARM CONTROL PANEL	1	165	165	310	310	STANDBY CURRENT	194.83
SILENT KNIGHT 5860R	ANNUNCIATOR	1	20	20	25	25	HOURS	24
SILENT KNIGHT SK-PULL-DA	MANUAL PULL STATION	3	0.375	1.13	0.375	1.125	STANDBY mA	4676
SILENT KNIGHT SK-PHOTO	SMOKE DETECTOR	19	0.30	5.70	0.30	5.70	ALARM CURRENT	2084
SILENT KNIGHT SK-MONITOR	MONITOR MODULE	8	0.375	3.00	0.375	3.000	HOURS	0.083
							ALARM mA	173
							TOTAL mA	4,849
							TOTAL AH	4.8
							CONTINGENCY	20%
							BATTERY TOTAL	5.8
AUDIBLE CIRCUIT TO APSS	CIRCUIT AV01	1	0	0	0	0		529
VISUAL CIRCUIT TO APSS	CIRCUIT AV02	1	0	0	0	0		1,210
TOTAL				194.83		2,083.83	BATTERY PROVIDED	7

- NOTES:
- ALARM CURRENT FOR ADDRESSABLE DEVICES IS CALCULATED BASED ON THE MAXIMUM CURRENT REQUIRED FOR ALL DEVICES.
 - BATTERIES IN EXCESS OF 7 AH CANNOT BE INSTALLED IN THE SILENT KNIGHT 6700 FACP ENCLOSURE AND MUST BE INSTALLED IN A BATTERY BOX LISTED FOR THAT PURPOSE WITH A PROPERLY SIZED CHARGER



SYMBOL LEGEND:

- C = LIGHT OUTPUT (CANDELA) AT UL 1971 ANGLE θ
- θ = ANGLE OFF THE AXIS FROM UL 1971
- D = DISTANCE FROM SOURCE (FEET)
- L = LIGHT INTENSITY (MINIMUM 0.0375 LUMENS/SQUARE FOOT (NFPA 72, 2013 SECTION 18.4.8.3 AND SECTION 18.5.5 PERFORMANCE-BASED ALTERNATIVE))
- X = HORIZONTAL DISTANCE OFF THE AXIS (FEET)
- H = VERTICAL DISTANCE OF LIGHT SOURCE FROM FLOOR (FEET)

EQUATIONS:

$$\theta = \tan^{-1} \left(\frac{X}{H} \right)$$

$$X = \sqrt{D^2 - H^2}$$

$$L = \frac{C}{D^2} \geq 0.0375$$

DISTANCE CHART

H (FEET)	X (FEET)					
	15 CD	30 CD	75 CD	95 CD	115 CD	177 CD
8	8.7	14.7	28.2	34.4	43.2	64.1
10	10.9	18.9	37.7	46.7	58.7	87.1
12	13.1	23.1	47.1	58.1	73.1	109.1
14	15.3	27.3	56.6	69.6	88.6	133.1
16	17.5	31.5	66.1	81.1	103.1	157.1
18	19.7	35.7	75.6	93.6	118.6	181.1
20	21.9	39.9	85.1	106.1	133.6	205.1
22	24.1	44.1	94.6	118.6	148.6	229.1
24	26.3	48.3	104.1	131.1	163.6	253.1
26	28.5	52.5	113.6	143.6	178.6	277.1
28	30.7	56.7	123.1	156.1	193.6	301.1
30	32.9	60.9	132.6	168.6	208.6	325.1
32	35.1	65.1	142.1	181.1	223.6	349.1
34	37.3	69.3	151.6	193.6	238.6	373.1
36	39.5	73.5	161.1	206.1	253.6	397.1
38	41.7	77.7	170.6	218.6	268.6	421.1
40	43.9	81.9	180.1	231.1	283.6	445.1
42	46.1	86.1	189.6	243.6	298.6	469.1
44	48.3	90.3	199.1	256.1	313.6	493.1
46	50.5	94.5	208.6	268.6	328.6	517.1
48	52.7	98.7	218.1	281.1	343.6	541.1
50	54.9	102.9	227.6	293.6	358.6	565.1
52	57.1	107.1	237.1	306.1	373.6	589.1
54	59.3	111.3	246.6	318.6	388.6	613.1
56	61.5	115.5	256.1	331.1	403.6	637.1
58	63.7	119.7	265.6	343.6	418.6	661.1
60	65.9	123.9	275.1	356.1	433.6	685.1
62	68.1	128.1	284.6	368.6	448.6	709.1
64	70.3	132.3	294.1	381.1	463.6	733.1
66	72.5	136.5	303.6	393.6	478.6	757.1
68	74.7	140.7	313.1	406.1	493.6	781.1
70	76.9	144.9	322.6	418.6	508.6	805.1
72	79.1	149.1	332.1	431.1	523.6	829.1
74	81.3	153.3	341.6	443.6	538.6	853.1
76	83.5	157.5	351.1	456.1	553.6	877.1
78	85.7	161.7	360.6	468.6	568.6	901.1
80	87.9	165.9	370.1	481.1	583.6	925.1
82	90.1	170.1	379.6	493.6	598.6	949.1
84	92.3	174.3	389.1	506.1	613.6	973.1
86	94.5	178.5	398.6	518.6	628.6	997.1
88	96.7	182.7	408.1	531.1	643.6	1021.1
90	98.9	186.9	417.6	543.6	658.6	1045.1

- NOTES:
- THE CEILING MOUNTED VISUAL NOTIFICATION APPLIANCES UTILIZED IN THIS DESIGN ARE LOCATED ON THE BOTTOM OF THE BEAMS/JOISTS OR SUSPENDED CEILING IN ACCORDANCE WITH SECTION 7.5.4.3 (PERFORMANCE-BASED ALTERNATIVE) IN THE 2002 EDITION OF NFPA 72.
 - THE VISUAL NOTIFICATION APPLIANCE COVERAGE WAS DETERMINED UTILIZING THE MOST STRINGENT (WORSE CASE) CRITERIA FOR AREAS EXPOSED TO STRUCTURE. THE SMALLEST VISUAL APPLIANCE RADIUS COVERAGE (K) FOR EACH CANDELA RATING WAS SELECTED.
 - THE BOLD VISUAL APPLIANCE RADIUS COVERAGE ON THE DISTANCE CHART INDICATES THE COVERAGE PATTERN USED FOR EACH NOTIFICATION APPLIANCE CANDELA SETTING.

CEILING MOUNTED FIRE ALARM STROBE DISTANCE CALCULATIONS

NOT TO SCALE

CONTROL-BY-EVENT PROGRAMMING MATRIX			
ADDRESS	TYPE I.D.	ACTUATED ZONES	ALPHANUMERIC LABEL OF DEVICE
L01D01	SMOKE	Z01, Z04	ABOVE FACP
L01D02	SMOKE	Z01, Z04	STOCK ROOM
L01D03	SMOKE	Z01, Z04	STOCK ROOM
L01D04	SMOKE	Z01, Z04	HALLWAY
L01D05	SMOKE	Z01, Z04	TOILET
L01D06	SMOKE	Z01, Z04	TOILET
L01D07	SMOKE	Z01, Z04	SALES FLOOR
L01D08	SMOKE	Z01, Z04	SALES FLOOR
L01D09	SMOKE	Z01, Z04	SALES FLOOR
L01D10	SMOKE	Z01, Z04	SALES FLOOR
L01D11	SMOKE	Z01, Z04	SALES FLOOR
L01D12	SMOKE	Z01, Z04	SALES FLOOR
L01D13	SMOKE	Z01, Z04	SALES FLOOR
L01D14	SMOKE	Z01, Z04	SALES FLOOR
L01D15	SMOKE	Z01, Z04	SALES FLOOR
L01D16	SMOKE	Z01, Z04	SALES FLOOR
L01D17	SMOKE	Z01, Z04	SALES FLOOR
L01D18	SMOKE	Z01, Z04	OFFICE
L01D19	SMOKE	Z01, Z04	OFFICE
L01D20	SMOKE	Z01, Z04	BREAKROOM
L01D21			
L01D22			
L01D23			
L01D24			
L01D25	THRU		
L01D50			

CONTROL-BY-EVENT PROGRAMMING MATRIX			
ADDRESS	TYPE I.D.	ACTUATED ZONES	ALPHANUMERIC LABEL OF DEVICE
L01M01	PULL	Z01, Z04	MAIN ENTRANCE
L01M02	PULL	Z01, Z04	EGRESS DOOR
L01M03	PULL	Z01, Z04	STOCK ROOM
L01M04			
L01M05			
L01M06			
L01M07			
L01M08			
L01M09			
L01M10	MONITOR	Z01	RETURN DUCT SMOKE DETECTOR
L01M11	MONITOR	Z02	RTU 1 - SUPPLY DUCT SMOKE DETECTOR
L01M12	MONITOR	Z02	RTU 2 - RETURN DUCT SMOKE DETECTOR
L01M13	MONITOR	Z02	RTU 2 - SUPPLY DUCT SMOKE DETECTOR
L01M14	MONITOR	Z02	RTU 3 - RETURN DUCT SMOKE DETECTOR
L01M15	MONITOR	Z02	RTU 3 - SUPPLY DUCT SMOKE DETECTOR
L01M16	MONITOR	Z02	RTU 4 - RETURN DUCT SMOKE DETECTOR
L01M17	MONITOR	Z02	RTU 4 - SUPPLY DUCT SMOKE DETECTOR
L01M18			
L01M19			
L01M20	THRU		
L01M50			

CONTROL-BY-EVENT PROGRAMMING ZONE LIST		
ZONE NUMBER	ACTUATED DEVICES AND MODULES	ALPHANUMERIC LABEL OF ZONE
Z01	FACP	ALARM CONDITION AT FACP AND OFF-SITE MONITORING FACILITY
Z02	FACP	SUPERVISORY CONDITION AT FACP AND OFF-SITE MONITORING FACILITY
Z03		
Z04	FACP	INTERIOR AUDIBLE/VISUAL NOTIFICATION APPLIANCE ACTIVATION
Z05		
Z06		
Z07		
Z08		
Z09		
Z10		

NOTIFICATION CIRCUIT VOLTAGE DROP CALCULATIONS								
SIGNAL CIRCUIT DESCRIPTION	APS / CIRCUIT LOCATION	MAXIMUM DISTANCE TO LAST APPLIANCE		VOLTAGE DROP CALCULATIONS				
		ALARM CURRENT (AMPS)		CIRCUIT LENGTH (FEET)	12 AWG (VOLTS)	V-DROP (12 AWG)	14 AWG (VOLTS)	V-DROP (14 AWG)
FACP	MAIN ELECTRICAL ROOM							
AV01	BACK OF HOUSE	0.529	2,155	1,355	120	20.15	20.01	0.39
AV02	SALES FLOOR	1.210	942	592	275	19.12	18.36	2.04

- NOTES:
- NOTIFICATION APPLIANCE CIRCUITS (NAC) DESIGNED FOR A MAXIMUM 1.5 AMPS, A MAXIMUM 4.4 VDC DROP, AND MINIMUM OPERATING VOLTAGE OF 16 VDC.
 - FIELD VERIFY ALL VOLTAGE DROP AND POWER REQUIREMENTS.
 - NAC CIRCUITS HAVE BEEN DESIGNED BASED UPON THE ABOVE CIRCUIT CURRENT AND VOLTAGE CRITERIA USING SYSTEM SENSOR CEILING MOUNTED APPLIANCE CRITERIA. IF ALTERNATE NOTIFICATION APPLIANCES ARE INSTALLED, PROVIDE REVISED POWER AND VOLTAGE DROP CALCULATIONS FOR ALL CIRCUITS.

INSTALLATION NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH NFPA STANDARDS AND ALL LOCAL ADOPTED CODES.
- FIRE ALARM CABLING SHALL BE ACCEPTABLE TO THE FIRE ALARM EQUIPMENT MANUFACTURER FOR THE INTENDED PURPOSE. SHOULD MANUFACTURER OF FIRE ALARM EQUIPMENT REQUIRE DIFFERENT TYPE OR SIZE OF CABLE THAN HEREIN SPECIFIED, THE LARGER OR MORE STRINGENT TYPE OF CABLE SHALL BE USED.
- ALL FIRE ALARM CABLING SHALL BE FIRE POWER LIMITED TYPE FPL. SEE WIRING LEGEND FOR CABLE TYPES AND SIZES.
- PROVIDE ALL REQUIRED CONDUIT, BACKBOXES, AND FITTINGS FOR THE FIRE ALARM SYSTEM CABLING.
- FIRE ALARM CABLING SHALL BE RED IN COLOR.
- FIRE ALARM CABLING SHALL NOT BE PAINTED.
- CABLE ROUTING SHOWN ON DRAWINGS IS FOR INTENT. EXACT ROUTING SHALL BE COORDINATED WITH OTHER TRADES IN THE FIELD. SEE DRAWING NOTES AND DETAILS FOR ACCEPTABLE INSTALLATION METHODS.
- ALL CABLE RUNS SHALL BE NEATLY BUNDLED, WRAPPED TIGHT AND PROPERLY SECURED. ANY CABLING NOT INSTALLED IN A NEAT AND PROFESSIONAL MANNER SHALL BE PULLED OUT AND RE-RUN BY INSTALLER AT NO ADDITIONAL COST TO OWNER.
- CONTRACTOR RUNNING CABLING MUST MARK BOTH ENDS OF CABLING, PROVIDE A WIRE LEGEND FOR ALL LOCATIONS, AND PROVIDE A CONTINUITY TEST LOG FOR EACH CABLE.
- EXPOSED CABLING SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE. EXPOSED CABLING SHALL NOT BE RUN IN A 'SPAY' FASHION BETWEEN BAR JOISTS OR BEAMS (I.E. CABLING SHALL BE ROUTED ALONG PATH OF JOISTS AND BEAMS). ALL CABLING SHALL BE SECURED TO THE STRUCTURAL CEILING BETWEEN JOISTS OR BEAMS.
- ALL CABLING SHALL BE SUPPORTED FROM BUILDING STRUCTURE AND NOT FROM GRID, TILES OR SUPPORT WIRES. EXPOSED CABLING SHALL BE SUPPORTED BY BUILDING STRUCTURE AT NO MORE THAN FIVE (5) FEET INTERVALS USING APPROVED 'D' RINGS AND 'J' HOOKS.
- ALL FIRE ALARM CABLING BELOW THE STRUCTURE, IN ELECTRICAL AND MECHANICAL ROOMS (SUBJECT TO PHYSICAL DAMAGE), CONCEALED ABOVE CEILING OR IN PARTITION CONDUIT TO PHYSICAL DAMAGE) SHALL BE INSTALLED IN METAL CONDUIT.
- ALL POWER LIMITED FIRE ALARM CABLING ABOVE THE STRUCTURE, ABOVE LAY-IN CEILING, OR CONCEALED ABOVE CEILING OR IN PARTITIONS (NOT SUBJECT TO PHYSICAL DAMAGE) SHALL BE INSTALLED IN CONDUIT.
- NON-POWER LIMITED FIRE ALARM CABLING FOR THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN CONDUIT.
- ALL CONDUIT SHALL BE TERMINATED AT THE BAR JOIST LEVEL WITH SOME FORM OF GROMMET OR BOX CONNECTOR.
- ALL CONDUIT LOCATED IN DRYWALL SHALL BE TERMINATED NO LESS THAN SIX (6) INCHES ABOVE THE CEILING TILE.
- FOR DRYWALL APPLICATIONS, ALL CONDUIT AND BACKBOXES SHALL BE RECESSED INSIDE THE WALL.
- ALL FIRE ALARM CABLING IN FINISHED AREAS SHALL BE CONCEALED.
- COORDINATE DRILLING OF ANY HOLES (I.E. COLUMN PENETRATIONS) WITH THE OWNER'S REPRESENTATIVE AND ALL OTHER TRADES PRIOR TO INSTALLATION.
- ALL FIRE ALARM DEVICES SHALL BE INSTALLED IN OR ON A PROPER BACKBOX. NO DEVICES SHALL BE INSTALLED WITHOUT A BACKBOX.
- ALL CABLING, CONDUIT, AND BACKBOXES SHALL BE PROPERLY SUPPORTED AND SEISMICALLY BRACED, AS REQUIRED BY ALL APPLICABLE CODES AND THE LOCAL JURISDICTION.
- ALL WIRING CONDUCTORS ENTERING FIRE ALARM PANEL(S) SHALL BE IN CONDUIT AND ENTER FROM THE SIDE OF THE FIRE ALARM PANEL(S).
- CONDUIT FILL SHALL NOT EXCEED 40%.
- ALL FIRE ALARM JUNCTION BOXES SHALL BE RED IN COLOR.
- ALL CONDUIT SHALL BE TERMINATED AT THE BAR JOIST LEVEL WITH SOME FORM OF GROMMET OR BOX CONNECTOR.
- RECESSED INSIDE THE WALL.
- ALL FIRE ALARM CABLING RISERS SHALL BE INSTALLED IN EMT CONDUIT.
- ALL CABLING IN ELECTRICAL/MECHANICAL ROOMS, AND AREAS SUBJECT TO PHYSICAL DAMAGE SHALL BE INSTALLED IN EMT CONDUIT.
- ALL FIRE ALARM DEVICES SHALL BE INSTALLED IN OR ON A PROPER BACKBOX. NO DEVICES SHALL BE INSTALLED WITHOUT A BACKBOX.

GENERAL NOTES

- THE FIRE ALARM SYSTEM SHALL OPERATE AS A STANDALONE LOW VOLTAGE SYSTEM AND SHALL BE AN INTELLIGENT ADDRESSABLE SUPERVISED SYSTEM. CIRCUITS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:
 - INITIATION DEVICE CIRCUITS (IDC) - CLASS B
 - SUPERVISORY CIRCUITS - CLASS B
 - SIGNALING LINE CIRCUITS (SLC) - CLASS B
 - AUXILIARY CIRCUITS - CLASS B
 - NOTIFICATION APPLIANCE CIRCUITS (NAC) - CLASS B
 - CIRCUITS FOR RELAY COOL OPERATION SHALL BE 24 VDC MAXIMUM WITH A SEPARATE OR INTEGRAL FIELD COLLAPSING DIODE.
- UPON LOSS OF BUILDING POWER, THE ENTIRE SYSTEM SHALL TRANSFER TO SECONDARY POWER WITHIN TEN (10) SECONDS, AND WITHOUT LOSS OF SIGNALS. THE SYSTEM SHALL OPERATE UNDER SECONDARY POWER IN NORMAL OR TROUBLE CONDITIONS FOR TWENTY-FOUR (24) HOURS AND HAVE SUFFICIENT POWER TO SUPPORT COMPLETE ALARM CONDITION OPERATION FOR A SUBSEQUENT FIVE (5) MINUTES AT MAXIMUM CONNECTED LOAD.
- COORDINATE EXACT MOUNTING LOCATION OF THE FIRE ALARM CONTROL PANEL (FACP) CABINET WITH THE GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION. THE FACP CABINET SHALL HAVE A HINGED DOOR KEYPAD IN COMMON WITH ALL OTHER KEYPAD DEVICES THROUGHOUT THE SYSTEM.
- COORDINATE INSTALLATION OF A GROUND ROD OR AN EARTH BUILDING GROUND FOR PROPER GROUNDING OF THE FACP WITH THE ELECTRICAL CONTRACTOR.
- DEVICES AND APPLIANCE INSTALLATIONS AS SHOWN ON THE FIRE ALARM PLANS ARE NOT DIMENSIONED FOR INSTALLATION. COORDINATE EXACT PLACEMENT OF ALL DEVICES AND APPLIANCES WITH THE ARCHITECTURAL PLANS AND GENERAL CONTRACTOR PRIOR TO INSTALLATION.
- ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL BACKGROUND INFORMATION IS SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO THE APPROPRIATE TRADES FOR EXACT LOCATIONS, SIZES AND QUANTITIES OF OTHER TRADES.
- MANUALLY MOUNTED SMOKE DETECTORS AT THE CEILING/DECK, AND NOT ON THE BOTTOM OF BEAMS OR JOISTS IN THE SALES SUPPORT AREA. MOUNT THE SMOKE DETECTORS ON THE SUSPENDED CEILING IN RESTROOMS, SALES FLOOR AND OFFICE AREAS. LOCATE ALL SMOKE DETECTORS AT A MINIMUM OF THREE (3) FEET FROM ANY MECHANICAL DIFFUSERS, AND AS REQUIRED BY NFPA 72. COORDINATE SMOKE DETECTOR LOCATIONS WITH LIGHTING, MECHANICAL, SPRINKLER AND BACKGROUND MUSIC EQUIPMENT.
- SMOKE DETECTOR HEADS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEAN-UP OF ALL TRADES IS COMPLETE AND FINAL.
- ALL THROUGH-PENETRATIONS OF FIRE-RATED WALLS AND FLOORS SHALL BE FIRE-STOPPED.
- ALL JUNCTION BOXES SHALL BE ACCESSIBLE FOR SERVICE. PROVIDE ANY REQUIRED ACCESS PANELS.
- NOTIFICATION APPLIANCE CIRCUITS (NAC) HAVE BEEN DESIGNED FOR A MAXIMUM 1.6 AMPS, MAXIMUM 4.4 VDC DROP, AND MINIMUM OPERATING VOLTAGE OF 16 VDC. SEE FIRE ALARM NAC VOLTAGE DROP CALCULATIONS ON THIS SHEET.
- ALL AUDIBLE APPLIANCES SHALL BE SET TO THE HIGH DBA SETTING AND SHALL SOUND A THREE-PULSE TEMPORAL PATTERN EVACUATION SIGNAL.
- PROVIDE SYNCHRONIZATION OF ALL AUDIBLE AND VISUAL NOTIFICATION APPLIANCE CIRCUITS THROUGHOUT THE BUILDING. PROVIDE ALL REQUIRED SYNCHRONIZATION MODULES. PROVIDE MULTI-SYNC MODE SLAVE CONNECTIONS TO ALL AUXILIARY POWER SUPPLIES.
- WHERE POSSIBLE, PROVIDE FLUSH MOUNTING OF NOTIFICATION APPLIANCES. ALL SURFACE-MOUNTED NOTIFICATION APPLIANCES SHALL BE INSTALLED WITH DECORATIVE BACKBOX OR DECORATIVE SKIRT COVERING THE RACO OR OTHER INDUSTRY-STANDARD BACKBOX.
- THE AUDIBLE/VISUAL AND VISUAL NOTIFICATION APPLIANCES SHALL BE RED IN COLOR, AND LISTED FOR THE INTENDED APPLICATION.
- ALL SIGNALING LINE CIRCUITS, INITIATING DEVICE CIRCUITS, AND NOTIFICATION APPLIANCE CIRCUITS SHALL BE SUPERVISED IN ACCORDANCE WITH NFPA 72.
- CEILING MOUNTED NOTIFICATION APPLIANCE LOCATIONS SHALL BE COORDINATED WITH THE MECHANICAL DUCTWORK TO AVOID VISUAL OBSTRUCTION. NOTIFICATION APPLIANCES THAT ARE VISIBLY OBSTRUCTED BY MECHANICAL DUCTWORK SHALL BE INSTALLED ON A THREADED SUPPORT SUSPENDED BELOW THE BUILDING STRUCTURE AND SHALL BE AT AN ELEVATION TO PROVIDE UNOBSTRUCTED VISUAL NOTIFICATION BELOW THE MECHANICAL DUCT.
- MANUALLY ACTIVATING THE 'ALARM SILENCE' AT THE FIRE ALARM CONTROL PANEL SHALL DE-SNOOZE BOTH THE AUDIBLE AND VISUAL NOTIFICATION APPLIANCES. AN ADDITIONAL ALARM REPORTED TO THE PANEL SUBSEQUENT TO ACTIVATING THE 'ALARM SILENCE' SHALL RE-ENERGIZE BOTH THE AUDIBLE AND VISUAL NOTIFICATION APPLIANCES THROUGHOUT THE BUILDING.
- PROVIDE ANY REQUIRED SEISMIC BRACING FOR ALL FIRE ALARM SYSTEM DEVICES, CONDUIT AND BACKBOXES.
- PROVIDE A PRINTED LABEL FOR EACH NOTIFICATION APPLIANCE INDICATING THE SPECIFIC CIRCUIT NUMBER FOR THAT