Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 03/21/16

FIRE ALARM RISER DIAGRAM – ADA STROBES ALL LEVELS
SCALE: N.T.S.

CODE SUMMARY

FIRE ALARM REQUIREMENTS DERIVED FROM NFPA 101 (2009 EDITION) CHAPTER 29 *"Existing Hotels and Dormitories"* WITH CHAPTER 11 *"Special Structures and High-Rise Buildings"* APPLIED.

INITIATION:
- MINIMUM ONE MANUAL PULL STATION AT CONSTANTLY ATTENDED LOCATION
- ACTIVATION OF SUPERVISED FULLY AUTOMATIC FIRE SPRINKLER SYSTEM

NOTIFICATION:
- VOICE EVACUATION SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 72. SEQUENCE OF OPERATION SHALL BE AS RECOMMENDED IN THE ANNEX (PARTIAL EVACUATION)
- LOW FREQUENCY SOUNDER(S) PRODUCING A 520 HZ SIGNAL ARE TO BE INSTALLED IN EACH GUEST ROOM

SUPPLEMENTAL COMPONENTS
- A CORRIDOR SMOKE DETECTION SYSTEM SHALL BE INSTALLED FOR EARLY WARNING IN PATHS OF EGRESS.
- SMOKE DETECTORS ARE PROVIDED IN ELECTRICAL AND STORAGE ROOMS
- MANUAL PULL STATIONS ARE TO BE INSTALLED AT MARKED EXITS WITHIN THE BUILDING
- SELECT CARBON MONOXIDE DETECTOR(S) SHALL BE INSTALLED IN AREAS PRONE TO MECHANICAL FAILURE AND WARRANTING FIRE DEPARTMENT RESPONSE. COORDINATION WITH PORTLAND FIRE DEPARTMENT FOR FINAL LOCATIONS NECESSARY.

Operations Matrix - Holiday Inn by the Bay

	Activate the Alarm LED and Buzzer on the FACP & Remote Annunciator(s)	Activate the Supervisory LED and Buzzer on the FACP & Remote Annunciator(s)	Activate the Trouble LED and Buzzer on the FACP & Remote Annunciator(s)	Activate Notification Appliances on Alarmed & Adjascent Floor(s)	Activate All Building Notification Appliances	Display Custom Message and Adress on FACP & Remote Annunciator(s)	Transmit Alarm Signal to Portland Dispatch via Radio Master Box	Transmit Supervisory Singnal to Portland Dispatch via Radio Master Box	Shut Down Associated Air Handling Unit
Smoke Detector	√			√		√	√		
Heat Detector	√			√		√	√		
Manual Pull Station	√			√		√	√		
Duct Smoke Detector	√			√		√	√		√
Sprinkler Waterflow	√			√		√	√		
Any (2) General Alarms	√				√	√	√		
Carbon Monoxide Detector		√				√		√	
Short Circuit			√			√			
Ground Fault			√			√			
Open Circuit			√			√			
Loss of Primary Power			√			√			
Loss of Secondary Power			√			√			

SYMBOL LEGEND

ITEM NO.	SYMBOL	QTY. TOTAL	DESCRIPTION
1		121	STANDARD BASE
2	HCP	8	INTELLIGENT ZONE MODULE (HCP) – 4" SQUARE
3	M	23	MONITOR MODULE (MODEL 345) – WIRELESS BACK BOX
4	F	29	PULL STATION (MODEL 310) – WIRELESS BACK BOX
5		119	SMOKE DETECTOR (MODEL 302) – WIRELESS BACK BOX
6	CO	2	CARBON MONOXIDE DETECTOR (MODEL 350) – WIRELESS BACK BOX
7	75CD WP	8	WP HORN/STROBE (AS–75–R–WP) – MOUNTS ON WPBBS
8	HM	240	LOW FREQUENCY HORN (MODEL 520W) – WIRELESS BACK BOX
9	XX	113	SPEAKER/STROBE (SEFH–MC–R) – 4" SQUARE W/ EXTENSION
10	XX	8	STROBE (ZR–MC–R) – 4" SQUARE OR SINGLE GANG
11	177CD	8	HIGH CANDELA STROBE (ZR–HMC–R) – 4" SQUARE OR SINGLE GANG
12		20	WATER FLOW SWITCH (F.B.O)
13	MIC	1	WIRED REMOTE ANN & MICROPHONE (SSD–C)
14	FATC	1	FIRE ALARM TERMINAL CABINET
15	ANN	2	WIRELESS ANNUNCIATOR (WRA–3)
16	FACP	1	FIRE ALARM CONTROL PANEL
17		8	DESIGNATED HEARING IMPAIRED

FIRE ALARM RISER DIAGRAM – GUEST ROOM FLOORS SPEAKERS & STROBES
SCALE: N.T.S.

GENERAL NOTES

* INSTALLATION METHODS SHALL COMPLY WITH NFPA 72 AND THE NATIONAL ELECTRIC CODE
* DEVICE ADDRESSES ARE NOT SHOWN AND SHALL BE RECORDED IN THE FIELD THROUGHOUT INSTALLATION.
* INITIATING DEVICES IN COMMON AREAS AND SOUNDERS WITHIN GUEST SUITES SHALL BE WIRELESS.
* ELEVATOR RECALL & SPRINKLER MONITOR MODULES SHALL BE PERMITTED TO BE WIRED IF WIRELESS SIGNAL IS INSUFFICIENT AND WIRED OPTION PRACTICAL.
* LOCATIONS OF WIRELESS REPEATER(S) IS NOT SHOWN ON THE DRAWINGS. FIELD TECHNICIAN SHALL RECORD ON JOB SITE PLANS TO INCLUDE IN AS BUILT DOCUMENTS. SMOKE DETECTOR SHALL BE INSTALLED ABOVE ANY WIRELESS REPEATER.

KEYED NOTES

1. REPLACE EXISTING HORN/STROBE WITH NEW WEATHERPROOF DEVICE. UTILIZE EXISTING WIRING IF ACCEPTABLE BY THE NEC. EXTEND CONDUIT WHERE NECESSARY FOR NEW LOCATION(S).
2. COORDINATE LOCATION OF WIRELESS ANNUNCIATOR WITH MAINTENANCE DIRECTOR AT TIME OF INSTALLATION
3. DISPATCH PROCEDURE ON CO DETECTION TO BE VERIFIED WITH LOCAL FIRE DEPARTMENT
4. SPEAKER/STROBE MAY BE RELOCATED TO CEILING MOUNT WITH APPROVAL FROM OWNER. SPACING SHALL BE VERIFIED BY ENGINEER
5. FIELD VERIFY EXACT QUANTITY OF MONITOR MODULES & INSTALL AS NEEDED. TAMPER SWITCHES SHALL REMAIN CHAINED & LOCKED UNTIL SPRINKLER CONTRACTOR HAS INSTALLED SWITCHES CAPABLE OF BEING ELECTRONICALLY MONITORED.
6. GARAGE LEVEL ELEVATOR LOBBY SPEAKER/STROBES SHALL BE TIED TO LOWER LEVEL ACTIVATION
7. LOCATE WIRELESS ANNUNCIATOR & WIRED ANNUNCIATOR WITH REMOTE MICROPHONE ADJACENT TO EACH OTHER. EQUIPMENT IS TO BE LOCATED IN CLEAR VIEW OF THE MAIN ENTRANCE FOR FIRE DEPARTMENT ACCESS, BUT UNOBTRUSIVE TO HOTEL STAFF.
8. TIE WIRELESS MONITOR MODULE TO HOOD SUPPRESSION SYSTEM. RECORD FINAL LOCATION OF MODULE ON AS BUILT DOCUMENTATION
9. INSTALL MODULES WITH PROVISIONS FOR TAMPER SWITCH TIE IN. EXISTING SWITCHES NOT COMPATIBLE WITH FIRE ALARM.
10. HCP MODULES FOR HEARING IMPAIRED GUEST ROOM STROBES. MODULE SHALL BE LOCATED IN MAIDS CLOSET AND STROBE WIRING (1 PR #14 FOR EACH ROOM) IS TO BE CONCEALED IN HALLWAY MOLDINGS
11. INSTALL LISTED 24VDC POWER SUPPLY FOR HCP MODULES. POWER SUPPLY IS TO BE MINIMUM 1.5A AND CAN SERVE BOTH HCP MODULES PER FLOOR

DEVICE ELEVATION DETAIL
NOT TO SCALE

GENERAL NOTES	DATE	REVISIONS
	2-19-16	SUBMITTED FOR APPROVAL BY PFD

REQUIRED APPROVALS
OWNER
STATE FIRE MARSHAL
LOCAL FIRE DEPARTMENT

DRAWN BY CRM
CHECKED BY BWB
CONTRACTOR LICENSE #

HOLIDAY INN
BY THE BAY
88 SPRING ST
PORTLAND, ME

CONTRACT WITH: OWNER

EASTERN FIRE SERVICES, INC.
AUBURN/LEWISTON INDUSTRIAL AIRPARK, AUBURN, MAINE 04210

FIRE ALARM SYSTEM RISER DETAIL PLANS & DETAILS
DWG. NO. FA-9
JOB NUMBER 3062
SCALE AS SHOWN
DATE 1/14/16

N
SCALE: 1' 2' 4' 8' 16'