



TYPICAL FIRE ALARM RISER

1 FIRE ALARM RISER DIAGRAM  
 E5.3 SCALE: NTS

**GENERAL NOTES**

- A. PROVIDE ISOLATION MODULES ENTERING AND LEAVING EACH ZONE AS DEFINED BY THE LATEST VERSION OF THE NATIONAL BUILDING CODE, AND ULC-S524.
- B. EACH FLOOR SHALL BE FED FROM ALTERNATING SIGNAL CIRCUITS.
- C. PROVIDE CLASS A CIRCUITS FOR PUBLIC INITIATING/DETECTION DEVICE CIRCUITS.
- D. THIS FIRE ALARM RISER SHALL BE UTILIZED AS A GUIDE FOR THE CONTRACTOR TO PRICE. THE CONTRACTOR SHALL PROVIDE AN UPDATED RISER DIAGRAM AS CREATED BY THE FIRE ALARM SYSTEM MANUFACTURER TO ENSURE CODE CONFORMANCE BASED ON THEIR SYSTEM.
- E. PROVIDE A SILENCE SWITCH AT THE FACP TO DEACTIVATE THE AUDIBLE AND VISUAL SIGNAL CIRCUITS.
- F. PROVIDE A TIMER AT THE FACP TO DEACTIVATE THE AUDIBLE AND VISUAL SIGNAL CIRCUITS THROUGHOUT FOR A PRE-SET PERIOD OF TIME. THE SIGNALS WILL REACTIVATE IF THE ALARM IS NOT ADDRESSED AT THE CONTROL PANEL.
- G. PROVIDE A SWITCH AT THE FACP TO RELEASE ALL MAG-LOCKS WITHIN THE FACILITY.
- H. PROVIDE A SWITCH AT THE FACP TO RESET ALL MAG-LOCKS WITHIN THE FACILITY.
- I. FIRE ALARM REMOTE ANNUNCIATORS SHALL BE C/W DUPLICATE CONTROLS AS DESCRIBED ABOVE FOR THE MAIN FIRE ALARM CONTROL PANEL.
- J. BRANCH CIRCUIT BREAKER SUPPLYING CIRCUITS TO FIRE ALARM EQUIPMENT SHALL BE RED AND LOCKABLE.
- K. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF THE CENTRAL STATION EQUIPMENT WITH THE OWNER TO ENSURE THAT MONITORING FACILITIES ARE IN PLACE AT TIME OF OCCUPANCY.
- L. MONITORING OF FIRE ALARM SYSTEM SHALL BE DONE BY MUNICIPAL ACCOMMODATIONS LOCATED AT CITY HALL CENTRAL CONTROL OFFICE.

**KEY NOTES**

- 1. CONNECT TO INTRUSION ALARM SYSTEM. FIRE ALARM SHALL BE CONNECTED TO THE INTRUSION SYSTEM UNDER A SEPARATE DEDICATED PARTITION FOR THE FIRE ALARM SYSTEM ONLY. INCLUDE ZONES FOR ALARM, TROUBLE, SUPERVISORY AND CO TROUBLE. LOCATE ADJACENT FIRE ALARM PANEL.
- 2. PROVIDE KEYSWITCH FOR RELEASE/RESET OF ALL MAG-LOCKS IN THE BUILDING.
- 3. OUTPUT TO MAG-LOCK POWER SUPPLY. MAG-LOCKS SHALL RELEASE ON FIRE ALARM SIGNAL. MAG-LOCKS SHALL BE RESET MANUALLY BY THE MAG-LOCK RELEASE/RESET SWITCH.
- 4. PROVIDE A NETWORK OUTPUT TO THE LAN FOR CONNECTION AND MONITORING THROUGH CITY OF WINNIPEG BAS JOHNSON METASYS SYSTEM.

**FIRE ALARM ZONE SCHEDULE**

ZONE#	ZONE DESCRIPTION	CONDITION
Z-01	MAIN FLOOR	ALARM
Z-02	MAIN FLOOR MECHANICAL ROOM	ALARM
ZCO-01	MAIN FLOOR CO DETECTION	TROUBLE
ZCO-02	MAIN FLOOR MECHANICAL ROOM CO DETECTION	TROUBLE
ZAHU-01	AHU UNIT DUCT DETECTOR	ALARM
ZERV-01	ERV UNIT DUCT DETECTOR	ALARM

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**OWNER**

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**PROJECT**  
 Windsor Park Library  
**ADDRESS**  
 1201 Archibald Street

**DATE**  
 April 20, 2016

**SCALE**  
 12" = 1'-0"

fire alarm riser  
 diagram  
**E5.3**