



- ① TYPICAL FIRE ALARM ADDRESSABLE LOOP WIRING TO FACP. ALL FIRE ALARM RISERS SHALL BE RUN IN 2-HOUR FIRE RATED ELECTRICAL CLOSURE.
NOTED: MAXIMUM DEVICES PER LOOP MUST NOT EXCEED 80% OF MAXIMUM ALLOWABLE DEVICES AS SPECIFIED BY THE FIRE ALARM MANUFACTURER.
- ② AUDIBLE DEVICES LOCATED WITHIN SUITES ARE WIRED ON SEPARATE SIGNAL CIRCUITS FROM AUDIBLE DEVICES SERVING THE PUBLIC CORRIDORS. AS SUCH, THE FIRE ALARM SYSTEM WILL BE PROVIDED WITH AN AUTOMATIC DUELLING UNIT SIGNAL SILENCE FEATURE. THIS FEATURE WILL SILENCE THE AUDIBLE DEVICES WITHIN DUELLING UNITS OUTSIDE OF THE TONE OF ALARM INITIATION ONLY. (CLOSURES CONTINUE TO REMAIN SOUNDING) AFTER A MINIMUM OF 60 SECONDS OF OPERATION.
- ③ OUTSIDE MANUAL ON/OFF SWITCHES AT CAFM FOR FIREFIGHTERS TO CONTROL SHUTDOWN OF FANS.
- ④ PROVIDE A SINGLE STAGE NON-CODED FIRE ALARM SYSTEM.

1. AUDIBLE DEVICES LOCATED WITHIN SUITES ARE WIRED ON SEPARATE SIGNAL CIRCUITS FROM AUDIBLE DEVICES SERVING THE PUBLIC CORRIDORS.
2. N-2UITE FIRE ALARM AUDIBLE DEVICES WITHIN THE BUILDING ARE REQUIRED TO BE CONNECTED TO THE FIRE ALARM SYSTEM IN A MANNER SUCH THAT AN OPEN CIRCUIT AT ONE DEVICE (I.E. DISCONNECTION OR DAMAGE) WILL NOT INTERFERE WITH THE ABILITY OF OTHER DEVICES IN OTHER DUELLING UNITS, PUBLIC CORRIDORS OR SUITES TO SOUND AN ALARM (32-419.0). THESE FIRE ALARM AUDIBLE DEVICES ARE PERMITTED TO BE CONNECTED TO THE FIRE ALARM SYSTEM VIA CLASS A WIRING, OR VIA CLASS B WIRING WITH SIGNAL CIRCUIT ISOLATORS LOCATED OUTSIDE OF THE SUITES (A-32-419.1(f)).
3. AUDIBLE SIGNAL DEVICES ARE REQUIRED TO BE WIRED ON SEPARATE CIRCUITS ON EACH FLOOR AREA. AUDIBLE SIGNAL DEVICES SERVING DUELLING UNITS OR SUITES ARE REQUIRED TO BE WIRED ON A SEPARATE CIRCUIT FROM THOSE DEVICES NOT WITHIN SUITES OF RESIDENTIAL OCCUPANCY OR DUELLING UNITS. (32-419.1(f)).
4. ALL WIRING FOR FIRE ALARM SYSTEM SHALL BE IN ACCORDANCE WITH DESIGN SPECIFICATIONS 6100 PART 4.0 ENTANGLED ELEC. SAFETY CODE.
5. PROVIDE WIRING FOR ALL SPRINKLER FLOW SWITCHES AND ALL SUPERVISED VALVES AND CONNECT INTO THE PROPER ZONES. CO-ORDINATE WITH SPRINKLER CONTRACTOR PRIOR TO ORDERING OF FIRE ALARM EQUIPMENT.
6. EACH SOURCE OF FUELER SUPPLY SHALL BE CAPABLE OF OPERATING THE ENTIRE SYSTEM INDEPENDENTLY UNDER ALARM CONDITIONS.

7. FULL STATIONS TO BE INSTALLED IN CORRIDORS ADJACENT TO STAIR ENTRANCES.
8. PROVIDE CONNECTION OF FIRE ALARM SYSTEM TO LOCAL FIRE DEPARTMENT OR U.L.C. LISTED OFF-SITE CENTRAL MONITORING AGENCY AS PER ULC-5561.
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10. FOR EXACT QUANTITY AND LOCATION OF DEVICES, REFER TO FLOOR PLANS.
11. PROVIDE ALL NECESSARY RELAYS TO START ALL STAIR PRESSURIZATION FANS WHEN FIRE ALARM CONDITION OCCURS.
12. U/G SPEAKERS OR HORNS, 7W SET TAP, ALL OTHERS * MINIMUM U/L.
13. PROVIDE MINIMUM 12% SPEAKER ZONES FOR SUPERVISORY, ALARM INITIATING ZONES AND VOICE/SIGNAL CIRCLES.
14. RISER DIAGRAM IS PRESENTED AS CONVENTIONAL CLASS A WIRING FOR ALL ZONES EXCEPT FOR THE FIRE PROTECTION DEVICES, WHICH SHALL BE CONNECTED IN A CLASS A ADDRESSABLE LOGIC. REFER TO "FIRE PROTECTION RISER SYSTEM" SECTION FOR SHOWN CONNECTIONS. REFER TO "FIRE PROTECTION RISER SYSTEM DEVICES" FLOOR U/L (PG.) PRESS. U/L (PG.) * TAMPER U/L (SVT).
15. FIRE ALARM SYSTEM SHALL HAVE PROVISIONS FOR TIE-IN TO "VIRTUAL CONCIERGE" SYSTEM.
16. FIRE ALARM RISER SHALL RUN N 2 HOUR FIRE RATED ELECTRICAL CLOSET, REFER TO DIAG. E-32 FOR RISER DIAGRAM AND DETAILS.

09/04/14	3	ISSUED FOR TENDER		5.1
07/04/14	2	RE-ISSUED FOR PERMIT		5.1
06/04/14	1	ISSUED FOR PERMIT		5.1
DATE	NO	DESCRIPTION		BY

DRAWING TITLE:
FIRE ALARM
RISER DIAGRAM

38 CAMERON STREET, BLOCK II
TORONTO ONTARIO

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