



MAIN FLOOR FIRE ALARM PLAN - ELEV 233.334

SCALE: 1:75

1-0650M-E0058	ELECTRICAL FIRE ALARM, LEGEND AND DETAILS
1-0650M-E0063	RISER DIAGRAM, NOTIFICATION SYSTEM
1-0650M-E0062	RISER DIAGRAM, DETECTION SYSTEM
DRAWING NUMBER	REFERENCE DRAWINGS

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

0.0 0.75 1.5 3.0 4.5

1:75

ENGINERS
GEOSCIENTISTS
MANITOBA
Certificate of Authorization
AtkinsRéalis Canada Inc.
No. 4489

GENERAL NOTES:

- ALL DEVICES SHOWN ARE NEW AND NEED TO BE PROVIDED BY THE CONTRACTOR. EXISTING FIRE ALARM SYSTEM TO BE DEMOLISHED. SEE DRAWING 1-0650M-XXXXX FOR DEMOLITION WORK.
- ALL WIRING ASSOCIATED WITH FIRE ALARM EQUIPMENT SHALL BE RUN IN CONDUIT AND PROVIDED BY THE CONTRACTOR.
- ALL CONDUIT RUN IN THE CHLORINE BUILDING SPACE SHALL BE RIGID, THREADED ALUMINUM CONDUIT.
- PROVIDE EXPANSION COUPLINGS AND FITTINGS FOR ALL CONDUIT CROSSING EXPANSION JOINTS (IF APPLICABLE).
- UTILIZE A MINIMUM OF #12 AWG WIRE SIZE FOR NOTIFICATION APPLIANCE CIRCUITS (NAC).
- ALL WIRE CONNECTIONS SHALL BE MADE VIA TERMINAL BLOCKS (WIRE NUTS NOT ALLOWED).
- CONTRACTOR IS RESPONSIBLE TO PROVIDE ANY ADDITIONAL EQUIPMENT IN ORDER TO COMPLETE FIRE ALARM DESIGN.
- REFER TO SPECIFICATION FOR FIRE ALARM EQUIPMENT MODEL NUMBERS.
- UTILIZE A MINIMUM OF #18 AWG FOR DETECTION CIRCUITS.
- REFER TO DETECTION AND NOTIFICATION RISER DIAGRAMS 1-0650M-E0063 AND 1-0650M-E0064 RESPECTIVELY FOR WIRING OF FIRE ALARM SYSTEM.

SPECIFIC NOTES:

- ALL WALL PENETRATIONS INTO THE CHLORINE BUILDING SPACE SHALL BE SEALED APPROPRIATELY PER CEC REQUIREMENTS FOR CATEGORY 2 LOCATIONS.
- STROBE A09 TO BE LOCATED AT THE TOP OF THE STAIRWELL ON LANDING LEADING TO THE ROOF.
- CONTRACTOR TO CONNECT EXISTING CARBON MONOXIDE DETECTION TO NEW FIRE ALARM SYSTEM. EXISTING CARBON MONOXIDE DETECTION SYSTEM IS PRE-WIRED TO JB-M691. CONTRACTOR TO MAKE CONNECTION FROM JB-M691 TO NEW CONTROL INPUT MODULE FAS-M-M04. PROVIDE END OF LINE RESISTOR AT EXISTING RELAY CR2 IN MAIN CONTROL PANEL. REFER TO DRAWING 1-0650M-A0031-005.
- ALL FIRE ALARM EQUIPMENT IN THE CHLORINATOR EQUIPMENT ROOM, TONNER SCALE ROOM AND TONNER STORAGE ROOM SHALL BE RATED FOR A CATEGORY 2 AREA (NEMA 4X). CONTRACTOR TO PROVIDE ALL ADDITIONAL WIRING AND MATERIALS REQUIRED FOR CONNECTION OF HAZARDOUS RATED FIRE ALARM EQUIPMENT. HAZARDOUS RATED HORN/STROBE MAY TWO SEPARATE DEVICES

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SCALE: 1:75	ISSUED FOR CONSTRUCTION BY: M. SKINNER
DATE: 2023/05/11	DATE: 2023/04/30
NO. REVISIONS	CONSULTANT NO.:

ENGINEER'S SEAL

THE CITY OF WINNIPEG
Winnipeg WATER AND WASTE DEPARTMENT
HURST PUMPING STATION
CHLORINE SYSTEM UPGRADES
ELECTRICAL FIRE ALARM PLAN
MAIN FLOOR
CITY DRAWING NUMBER
1-0650M-E0061 SHEET REV. SIZE
001 00 A1