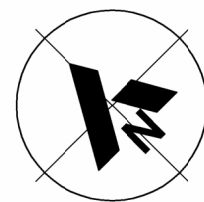


ALUMNI HALL/CAFETERIA FIRE ALARM

820 HERITAGE DRIVE, KEMPTVILLE, ON



Contractor to verify all dimensions & conditions on site and immediately notify the departmental representative of all discrepancies.

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| B | ISSUED FOR TENDER | 2023-10-20 |
| A | ISSUED FOR 66% REVIEW | 2023-08-09 |

| revisions | description | date |
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B location drawing no.
sur dessin no.
C drawing no.
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KCECC
ALUMNI HALL
FIRE ALARM

820 HERITAGE DRIVE, KEMPTVILLE, ON

drawingdessin

DRAWING LIST
AND LEGEND

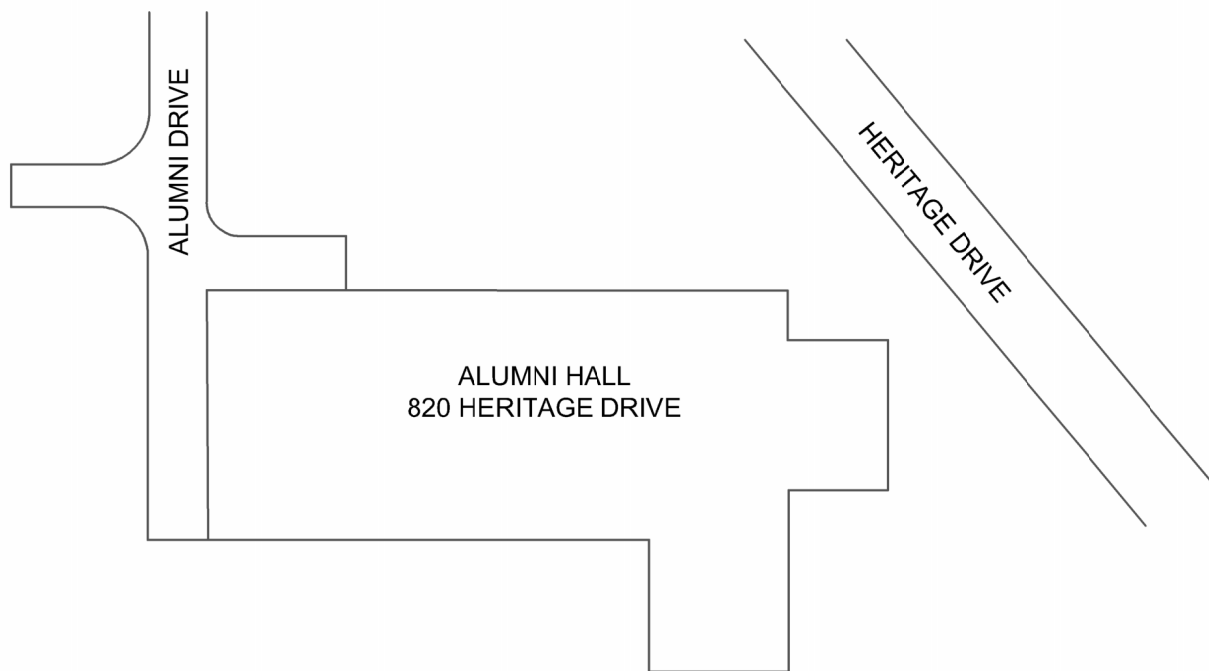
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| Designed By | ZCM | Conçu par |
| Date | JULY 2023 | (yyyy/mm/dd) |
| Drawn By | ZCM | Dessiné par |
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| Date | | (yyyy/mm/dd) |
| Tender | | Soumission |
| Project Manager | Bruce Jackson | Administrateur de projets |
| Project no. | | No. du projet |
| | A001439 | |
| Drawing no. | | No. du dessin |
| | E-101 | |

DRAWING LIST

- E-101DRAWING LIST AND LEGEND
- E-102FIRE ALARM RISER DIAGRAM, ZONE SCHEDULE AND SEQUENCE OF OPERATION
- E-103BASEMENT FLOOR LAYOUT
- E-104GROUND FLOOR LAYOUT
- E-105SECOND FLOOR LAYOUT
- E-106ELECTRICAL SPECIFICATIONS

LEGEND

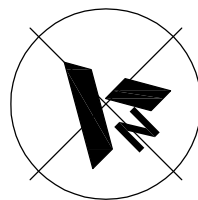
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| GENERAL | <div># E-###</div> DETAIL "#" ON DRAWING "E-###" |
| | <div>x</div> DRAWING NOTE 'X' |
| | <div>XXXX</div> CMMS EQUIPMENT TAG |
| | <div>C/W</div> COMPLETE WITH |
| | <div></div> EXISTING TO REMAIN |
| | <div></div> EXISTING TO BE REMOVED/RELOCATED |
| | <div></div> NEW EQUIPMENT |
| ELECTRICAL | <div>PAI</div> SURFACE MOUNT MAIN FIRE ALARM CONTROL PANEL |
| | <div></div> MANUAL PULL STATION |
| | <div></div> COMBINATION ADDRESSABLE HEAT/SMOKE DETECTOR |
| | <div></div> FIRE ALARM HEAT DETECTOR |
| | <div>F</div> FIRE ALARM HORN AND STROBE LAMP COMBINATION |
| | <div>MON</div> MONITORING MODULE |
| | <div>ANN</div> SURFACE MOUNT REMOTE ANNUNCIATOR PANEL |
| | <div>ISO</div> FAULT ISOLATION MODULE |
| | <div>TS</div> TAMPER SWITCH |



1
E-101

ALUMNI HALL - AREA OF WORK

SCALE: 1:100



2023-10-21
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| C | drawing no. dessin no. | |

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ALUMNI HALL
FIRE ALARM

820 HERITAGE DRIVE, KEMPTVILLE, ON

drawing

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RISER DIAGRAM,
ZONE SCHEDULE AND
SEQUENCE OF
OPERATION

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| Designed By | ZCM | Conçu par |
| Date | JULY 2023 | (yyyy/mm/dd) |
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Tender

Bruce Jackson

Project Manager

Administrateur de projets

Project no.

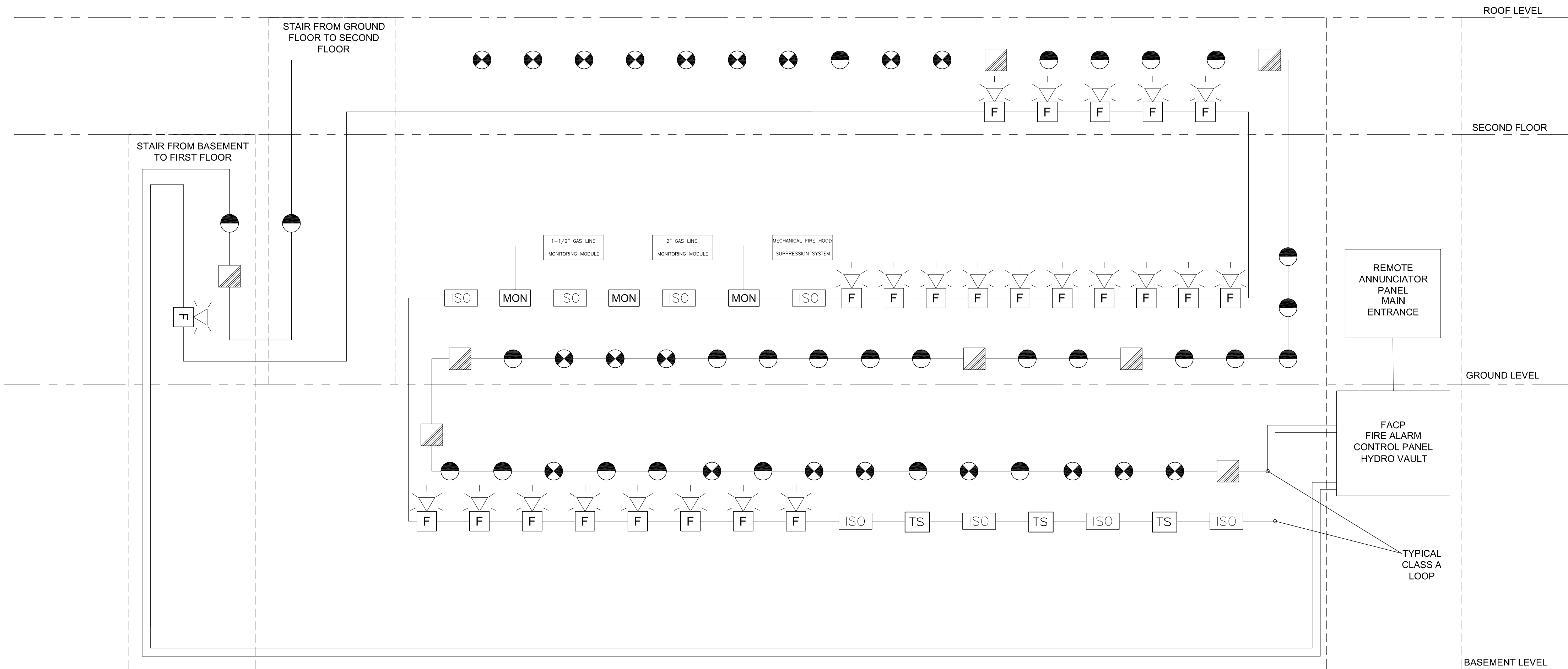
No. du projet

A001439

Drawing no.

No. du dessin

E-102



1
E-102
FIRE ALARM SYSTEM RISER DIAGRAM
SCALE: 1:100

| FIRE ALARM ZONES | |
|------------------|--|
| ZONE | ZONE DESCRIPTION |
| 1 | GROUND FLOOR INITIATING DEVICES |
| 2 | SECOND FLOOR INITIATING DEVICES |
| 3 | BASEMENT LEVEL INITIATING DEVICES |
| 4 | STAIRWELL (BASEMENT TO 1ST) INITIATING DEVICES |
| 5 | STAIRWELL (1ST TO 2ND) INITIATING DEVICES |
| 6 | ZONE 1 - MONITORING MODULE (FIRE SUPPRESSION SYSTEM) |
| 7 | ZONE 1 - MONITORING MODULE (2" GAS LINE) |
| 8 | ZONE 1 - MONITORING MODULE (1-1/2" GAS LINE) |
| 9 | ZONE 3 - TAMPER SWITCH |
| 10 | ZONE 3 - TAMPER SWITCH |
| 11 | ZONE 3 - TAMPER SWITCH |

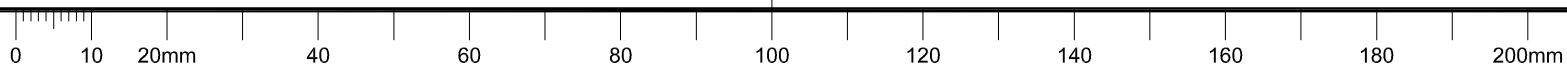
GENERAL NOTES

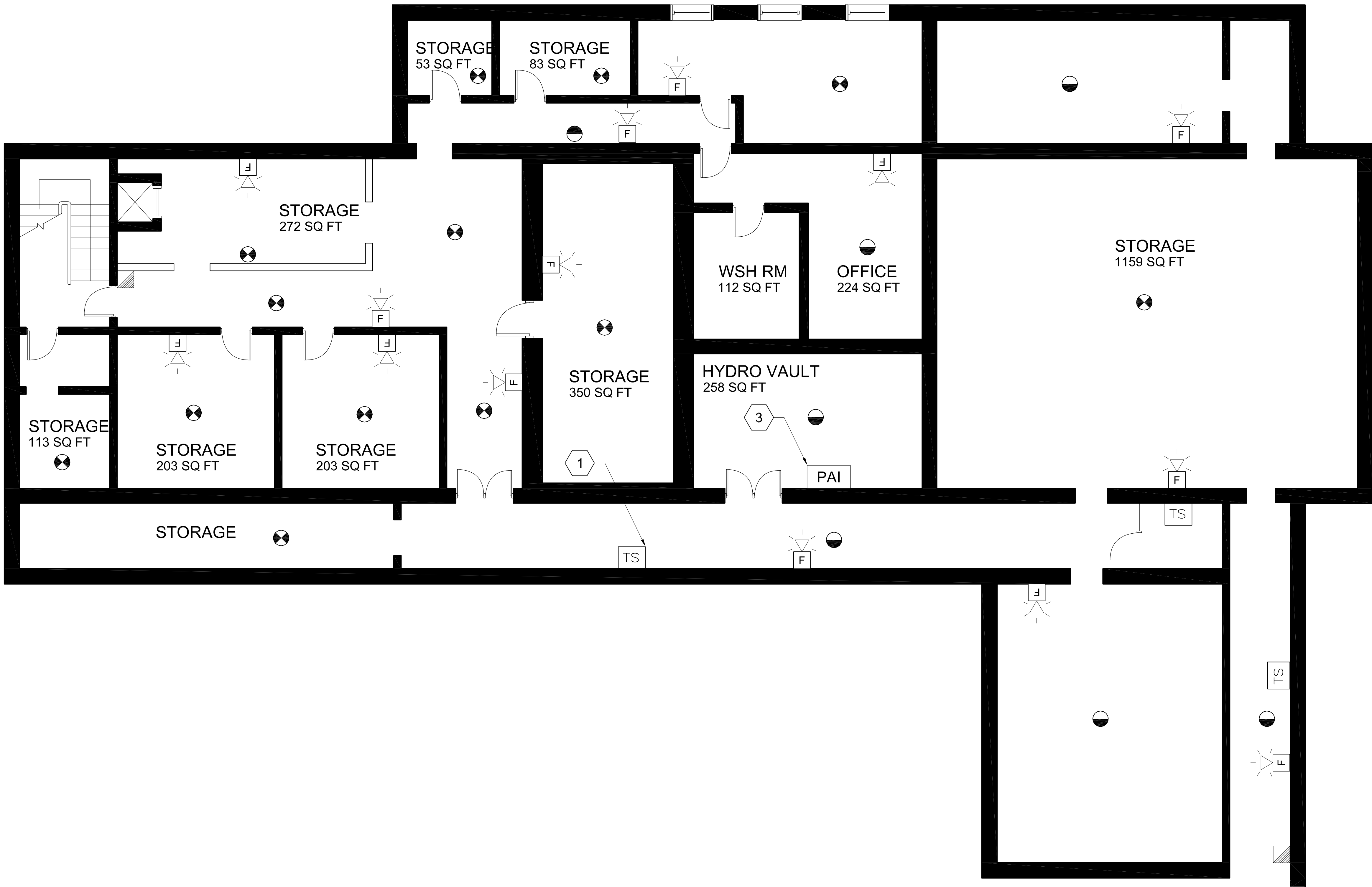
- THE RISER DIAGRAM IS DIAGRAMMATICAL SHOWING DESIGN CONCEPTS ONLY. THE RISER DOES NOT SHOW THE EXACT QUANTITY OF DEVICES.
- ALL CONDUITS SHALL BE MINIMUM 19mmC.
- WIRING FOR FIRE ALARM SHALL BE FAS RATED CABLE.
- PROVIDE FIRE ALARM ISOLATING BETWEEN EACH FIRE ALARM ZONE AS REQUIRED BY CAN/ULC S524.
- FIRE ALARM TO BE INSTALLED IN ACCORDANCE WITH CAN/ULC S524.
- FIRE ALARM CONDUIT TO BE CONCEALED IN HIGHLY FINISH AREAS THAT HAVE BEEN RECENTLY REFURBISHED SUCH AS THE GROUND FLOOR. CONDUIT ON OTHER FLOORS TO BE RUN SURFACE MOUNTED. CONTRACTOR TO BE AWARE OF ASBESTOS PLASTER WALLS AND CEILINGS ON UPPER FLOORS AND TAKE THE APPROPRIATE PRECAUTIONS WHEN SUPPORTING CONDUIT TO WALLS AND CEILINGS.

FIRE ALARM SEQUENCE OF OPERATION

- THE FIRE ALARM SYSTEM SHALL BE A MULTIPLEXED, SINGLE STAGE, ADDRESSABLE SYSTEM. THE GENERAL SEQUENCE OF THE OPERATION SHALL BE AS INDICATED BELOW :
 - AN ALARM INITIATION OF THE BUILDING SHALL BE ACTIVATED BY:
 - MANUAL OPERATION OF FIRE ALARM PULL STATION.
 - AUTOMATIC INITIATION OF A FIRE ALARM DEVICES SUCH AS SMOKE DETECTORS, HEAT DETECTORS, OR MONITORING MODULE. INITIATING SHALL BE IDENTIFIED AT THE REMOTE ANNUNCIATOR PANEL.
 - THE ACTIVATION OF THE EXISTING COMMERCIAL KITCHEN HOOD SUPPRESSION SYSTEMS.
 - ONCE THE FIRE ALARM HAS BEEN INITIATED, THE BUILDING GOES INTO GENERAL ALARM. HORNS AND STROBES THROUGHOUT THE BUILDING ARE ACTIVATED TO CALL FOR EVACUATION OF THE BUILDING. AN OUTGOING CALL IS MADE TO LOCAL FIRE DEPARTMENT TO ADVISE OF FIRE ALARM IN THE BUILDING.

C





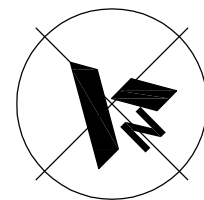
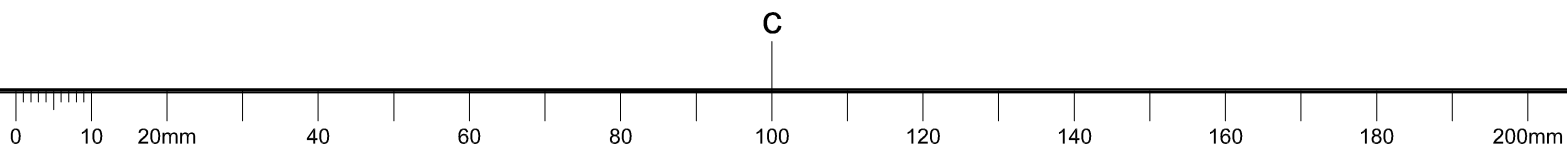
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E-103
BASEMENT LEVEL - FLOOR LAYOUT
SCALE: 1:75

DRAWING NOTES:

1. PROVIDE AND INSTALL ADDRESSABLE RELAYS FOR TAMPER SWITCHES, STAND PIPE CONTROL VALVE AND FIRE SUPPRESSION SYSTEM AND CONNECT RELAY SIGNAL TO THE FIRE ALARM SYSTEM.
2. PROVIDE, INSTALL AND PROGRAM FIRE ALARM CONTROL PANEL WITH NEW SUPERVISORY ZONES AND INCLUDES SIGNALS FROM INITIATING DEVICES AND SUPERVISORY DEVICES.

GENERAL NOTES

1. ALL CONDUITS SHALL BE MINIMUM 19mmC.
2. WIRING FOR FIRE ALARM SHALL BE FAS RATED CABLE.
3. PROVIDE FIRE ALARM ISOLATING BETWEEN EACH FIRE ALARM ZONE AS REQUIRED BY CAN/ULC S524.
4. FIRE ALARM TO BE INSTALLED IN ACCORDANCE WITH CAN/ULC S524.
5. FIRE ALARM CONDUIT TO BE CONCEALED IN HIGHLY FINISH AREAS THAT HAVE BEEN RECENTLY REFURBISHED SUCH AS THE GROUND FLOOR. CONDUIT ON OTHER FLOORS TO BE RUN SURFACE MOUNTED. CONTRACTOR TO BE AWARE OF ASBESTOS PLASTER WALLS AND CEILINGS ON UPPER FLOORS AND TAKE THE APPROPRIATE PRECAUTIONS WHEN SUPPORTING CONDUIT TO WALLS AND CEILINGS.



2023-10-21
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| A | A detail no. no. du détail | A |
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| | C drawing no. dessin no. | |

project projet

KCECC
ALUMNI HALL
FIRE ALARM

820 HERITAGE DRIVE, KEMPTVILLE, ON

drawing dessin

BASEMENT FLOOR
SCHEMATIC

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| Designed By | ZCM | Conçu par |
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Tender Soumission
Project Manager Bruce Jackson
Administrateur de projets

Project no. No. du projet

A001439

Drawing no. No. du dessin

E-103



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E-104

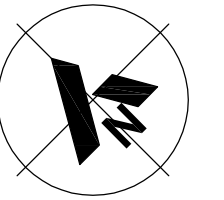
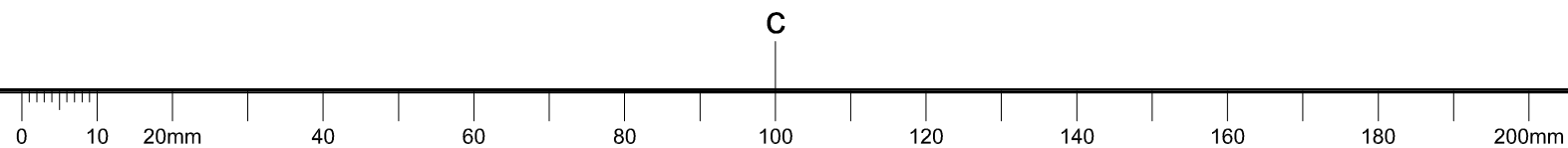
GROUND LEVEL - FLOOR PLAN
SCALE: 1:75

DRAWING NOTES:

1. PROVIDE AND INSTALL ADDRESSABLE RELAYS FOR TAMPER SWITCHES, STAND PIPE CONTROL VALVE AND FIRE SUPPRESSION SYSTEM AND CONNECT RELAY SIGNAL TO THE FIRE ALARM SYSTEM.
2. PROVIDE , INSTALL AND PROGRAM FIRE ALARM ANNUNCIATOR PANEL AND INCLUDES SIGNAL FROM INITIATING DEVICES AND SUPERVISORY DEVICES.

GENERAL NOTES

1. ALL CONDUITS SHALL BE MINIMUM 19mmC.
2. WIRING FOR FIRE ALARM SHALL BE FAS RATED CABLE.
3. PROVIDE FIRE ALARM ISOLATING BETWEEN EACH FIRE ALARM ZONE AS REQUIRED BY CAN/ULC S524.
4. FIRE ALARM TO BE INSTALLED IN ACCORDANCE WITH CAN/ULC S524.
5. FIRE ALARM CONDUIT TO BE CONCEALED IN HIGHLY FINISH AREAS THAT HAVE BEEN RECENTLY REFURBISHED SUCH AS THE GROUND FLOOR. CONDUIT ON OTHER FLOORS TO BE RUN SURFACE MOUNTED. CONTRACTOR TO BE AWARE OF ASBESTOS PLASTER WALLS AND CEILINGS ON UPPER FLOORS AND TAKE THE APPROPRIATE PRECAUTIONS WHEN SUPPORTING CONDUIT TO WALLS AND CEILINGS.



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project project

**KCECC
ALUMNI HALL
FIRE ALARM**

820 HERITAGE DRIVE, KEMPTVILLE, ON

drawing dessin

**GROUND FLOOR
SCHEMATIC**

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Tender Soumission
Project Manager Bruce Jackson
Administrateur de projets

Project no. No. du projet

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Drawing no. No. du dessin

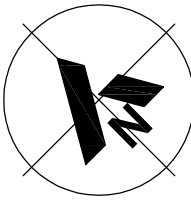
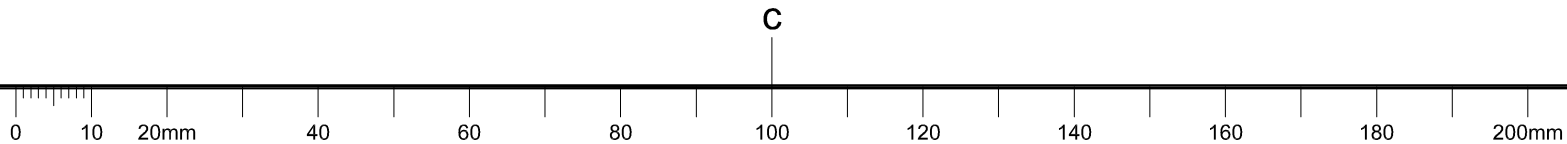
E-104



1 SECOND LEVEL - FLOOR LAYOUT
E-105 SCALE: 1:75

GENERAL NOTES

1. ALL CONDUITS SHALL BE MINIMUM 19mmC.
2. WIRING FOR FIRE ALARM SHALL BE FAS RATED CABLE.
3. PROVIDE FIRE ALARM ISOLATING BETWEEN EACH FIRE ALARM ZONE AS REQUIRED BY CAN/ULC S524.
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| | dessin no. | |

project projet

KCECC
ALUMNI HALL
FIRE ALARM

820 HERITAGE DRIVE, KEMPTVILLE, ON

drawing dessin

SECOND FLOOR
SCHEMATIC

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| Project Manager | Administrateur de projets | |
| Project no. | No. du projet | |
| | A001439 | |
| Drawing no. | No. du dessin | |
| | E-105 | |

GENERAL INSTRUCTIONS

CONDITIONS OF CONTRACT

1. THE OWNERS INSTRUCTIONS TO BIDDERS AND THE GENERAL CONDITIONS OF THE DESIGNERS SPECIFICATIONS ARE AN INTEGRAL PART OF THIS CONTRACT AND SHALL BE READ IN CONJUNCTION HEREWITH. THESE INSTRUCTIONS TO BIDDERS AND GENERAL CONDITIONS SHALL BE FULLY BINDING ON THE GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS TO THE FULL SATISFACTION OF THE DESIGNER, ENGINEER AND OWNER.
2. THE RESPONSIBILITY AND SCOPE OF EACH SUB-TRADE RESTS SOLELY WITH THE CONTRACTOR. EXTRAS WILL NOT BE CONSIDERED BASED ON THE GROUNDS OF DIFFERENCE IN INTERPRETATION OF SPECIFICATIONS AND DRAWINGS AS TO WHICH TRADE INVOLVED SHALL PROVIDE CERTAIN SPECIALTIES OR MATERIALS.
3. IT IS A CONDITION OF THIS CONTRACT, THAT THE CONTRACTOR WILL, IN THE PERFORMANCE OF THE SERVICES FOR THE OWNER AS DESCRIBED IN THIS CONTRACT, PERFORM WORK IN ACCORDANCE WITH ONTARIO BUILDING CODE LATEST EDITION, THE ONTARIO HYDRO ELECTRICAL SAFETY CODE, THE SEWAGE SYSTEMS ENVIRONMENTAL PROTECTION ACT ONTARIO, WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS), O.REG 644/88, THE ONTARIO GAS UTILIZATION CODE, AND ANY OTHER CODE OF PROVINCIAL OR LOCAL APPLICATION, INCLUDING HOURS OF WORK, RATES OF PAY, JOB SAFETY AND ALL OTHER MATTERS IN WHICH THE MUNICIPAL OR FEDERAL AUTHORITIES HAVE JURISDICTION, PROVIDED THAT IN ANY CASE OF CONFLICT OR DISCREPANCY, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
4. COMPLY WITH STANDARD FOR BUILDING CONSTRUCTION OPERATIONS, ISSUED BY THE ONTARIO FIRE MARSHALL'S OFFICE AND ALL APPLICABLE FIRE SAFETY CODES, LAWS, AND REGULATIONS.
5. IT IS INCUMBENT UPON THE CONTRACTOR TO INFORM ITSELF OF ANY SUCH LEGISLATION AND THE CONTRACTOR AGREES THAT IN THE EVENT OF NON-COMPLIANCE WITH THIS LEGISLATION, IT WILL INDEMNIFY AND HOLD HARMLESS THE OWNER FROM ANY COSTS AND DAMAGES RESULTING FROM SUCH NON-COMPLIANCE.
6. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH STANDARDS OF GOOD PRACTICE SUCH AS, BUT NOT LIMITED TO, SMACNA AND ASHRAE, MEET OR EXCEED REQUIREMENTS OF CONTRACT DOCUMENTS, SPECIFIED STANDARDS, CODES AND REFERENCED DOCUMENTS DESCRIBED IN THESE INSTRUCTIONS.
7. GIVEN THE OPERATION OF THE BUILDING, THERE WILL BE AN EXPECTATION THAT ALL WORK REQUIRING SHUTDOWN OF BUILDING SERVICES WILL HAVE TO BE COMPLETED AFTER REGULAR WORKING HOURS. ALLOW IN PRICE PROVISIONS FOR WORK AFTER HOURS (6PM-6AM).

EXAMINATION OF WORK

1. EXAMINE THE SITE AND LOCAL CONDITIONS TO DETERMINE THE DIFFICULTIES IN CARRYING OUT THE WORK INDICATED AND SPECIFIED PRIOR TO SUBMITTING FINAL PRICE.

LIABILITY

1. THIS CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR LAYING OUT HIS WORK AND FOR ANY DAMAGE OR EXTRA COSTS CAUSED TO THE OWNER OR OTHER CONTRACTORS BY IMPROPER LOCATION OR CARRYING OUT OF HIS WORK. CARRY ALL NECESSARY INSURANCE COVERAGE. REVIEW ALL DRAWINGS AND SPECIFICATIONS.

PERMITS, CERTIFICATES, FEES, ETC.

1. GIVE ALL NOTICES, OBTAIN ALL PERMITS AND PAY ALL FEES SO THAT THE WORK SPECIFIED HEREIN MAY BE CARRIED OUT. AT THE ENGINEER'S REQUEST, FURNISH ANY CERTIFICATES AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH THE LAWS AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION.

GUARANTEE

1. THE CONTRACTOR, AS A CONDITION PRECEDENT TO FINAL PAYMENT AFTER COMPLETION OF THIS WORK, SHALL GIVE THE OWNER A WRITTEN GUARANTEE WARRANTING ALL APPARATUS FURNISHED UNDER THE CONTRACT TO REMAIN IN PERFECT SERVICEABLE CONDITION FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL PERFORMANCE OF HIS WORK AS ESTABLISHED BY THE PROJECT MANAGER AND ENGINEER.

DOCUMENTS REQUIRED

1. MAINTAIN AT JOB SITE ONE COPY OF EACH OF THE FOLLOWING DOCUMENTS:
- 1. DRAWINGS.
 - 2. SPECIFICATIONS.
 - 3. ADDENDA.
 - 4. CHANGE ORDERS.
 - 5. OTHER MODIFICATIONS TO CONTRACT.
 - 6. FIELD TEST REPORTS.
 - 7. MANUFACTURERS' INSTALLATION AND APPLICATION INSTRUCTIONS.

EXTRA WORK

1. NO EXTRA WORK IS TO BE CARRIED OUT WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER OR THE OWNER'S REPRESENTATIVE.
2. CONTRACTOR SHALL PROVIDE QUOTATIONS FOR EXTRA WORK AS DIRECTED UNDER CONTEMPLATED CHANGE NOTICES (CCN'S) ISSUED IN WRITING BY THE ENGINEER OR THE OWNER'S REPRESENTATIVE.
3. AT THE START OF THE PROJECT THE CONTRACTOR SHALL SUBMIT FOR REVIEW THE HOURLY LABOUR RATE THAT IS PROPOSED FOR PRICING ON ALL EXTRA WORK THAT MAY ARISE ON THE PROJECT.
4. LABOUR RATE TO INCLUDE ONLY:
- 1. PAY AND VACATION PAY.
 - 2. WELFARE AS PER UNION COLLECTIVE AGREEMENT (ACCEPTED ONLY IF CONTRACTOR IS A UNION CONTRACTOR).
 - 3. E.I. OR C.P.P. AS PER FEDERAL GOVERNMENT REQUIREMENTS.
 - 4. W.S.I.B. PAYMENTS AS PER ONTARIO REGULATIONS.
 - 5. INSURANCE AS PER REQUIREMENTS OR REGULATING BODY.
5. MATERIAL WILL BE PRICES AT THE CONTRACTOR'S COST. COPIES OF SUPPLIER'S INVOICES MAY BE REQUIRED TO SUBSTANTIATE MATERIAL COSTS WHEN REQUESTED.
6. THE AMOUNT OF MARK-UP ALLOWED FOR PROFIT AND OVERHEAD WILL BE IN ACCORDANCE WITH THOSE IN THE CONTRACT DOCUMENTS WITH THE TENDER. TO BE MODIFIED TO REFLECT THE ALLOWED PROFIT AND OVERHEAD STATED IN THE CONTRACT DOCUMENTS.
7. THE MARK-UPS APPLY TO THE NET WHERE A CHANGE INCLUDES EXTRAS AND CREDITS.

AS-BUILT AND RECORD DRAWINGS

1. OWNERS REPRESENTATIVE WILL PROVIDE TWO(2) SETS OF DRAWINGS AT THE START OF CONSTRUCTION TO ALLOW THE CONTRACTOR TO KEEP AND MAINTAIN ACCURATE AS-BUILT DRAWINGS.
2. ON SET SHALL BE KEPT ON SITE TO RECORD THE INFORMATION REFLECTING CHANGES AND INSTALLATION ON A DAILY BASIS DURING CONSTRUCTION. AT THE END OF THE PROJECT ALL INFORMATION FROM THE CONSTRUCTION SET SHALL BE TRANSFERRED ONTO THE CLEAN SET AND SENT TO THE ENGINEER FOR THE FINAL REVIEW.
3. FAILURE TO KEEP UP TO DATE AS-BUILT DRAWING MAY JEOPARDIZE MONTHLY PROGRESS PAYMENTS. AS-BUILT DRAWING WILL BE REVIEWED AT THE SAME TIME AS MONTLY PROGRESS PAYMENT INSPECTIONS ARE CONDUCTED.

REPAIR MATERIALS

1. MECHANICAL REPAIR MATERIALS: USE ONLY NEW MATERIALS, CSA OR ULC LABELLED AS APPROPRIATE AND MATCHING COMPONENTS REMAINING AFTER WORK ASSOCIATED WITH COMPONENTS IDENTIFIED FOR REMOVAL OR DEMOLITION ARE COMPLETED.
2. FIRE-STOPPING REPAIR MATERIALS: USE FIRE-STOPPING MATERIALS COMPATIBLE WITH EXISTING FIRE-STOPPING SYSTEMS WHERE REMOVAL OR DEMOLITION WORK AFFECTS RATED ASSEMBLIES. RESTORE TO MATCH EXISTING FIRE RATED PERFORMANCE.

SALVAGE AND DEBRIS MATERIALS

1. MATERIAL OWNERSHIP: DEMOLISHED MATERIALS WILL BE REMOVED FROM PROJECT SITE, AND RETURNED TO PROJECT MANAGER AND DISPOSED AS INSTRUCTED BY THEM.
2. SALVAGED MATERIALS: CAREFULLY REMOVE MATERIALS DESIGNATED FOR SALVAGE AND STORE IN A MANNER TO PREVENT DAMAGE OR DEVALUATION OF MATERIALS.

STORAGE

1. THE SECURITY OF THE CONTRACTOR'S EQUIPMENT AND MATERIALS SHALL BE HIS RESPONSIBILITY. CONTRACTOR SHALL LIAISE WITH THE BUILDING OPERATOR AS NECESSARY.

SIGNS

1. PROVIDE WARNING SIGNS IN LOCATIONS WHERE RENOVATIONS AND ALTERATION WORK IS ADJACENT TO AREAS AFFECTING THE PUBLIC.

EQUIPMENT AND SITE CLEANLINESS

1. EQUIPMENT SHALL BE THOROUGHLY CLEANED OF DIRT, CUTTINGS AND OTHER FOREIGN SUBSTANCES. DISCONNECT, CLEAN AND RECONNECT WHENEVER NECESSARY FOR THE PURPOSE OF LOCATING AND REMOVING OBSTRUCTIONS. REPAIR WORK DAMAGED IN THE COURSE OF REMOVING OBSTRUCTIONS.
2. THE CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE FROM THE ACCUMULATION OF WASTE MATERIAL TO THE SATISFACTION OF THE PROJECT MANAGER. PLACE DUST PROTECTION IN THE FORM OF COVER SHEETS OVER EQUIPMENT TO ENSURE NO DUST INFILTRATION. CLEANING TO BE COMPLETED AT THE END OF EACH SHIFT TO THE SATISFACTION OF THE PROJECT MANAGER.

PREPARATION

1. PROTECTION OF EXISTING SYSTEMS TO REMAIN: PROTECT SYSTEMS AND COMPONENTS INDICATED TO REMAIN IN PLACE DURING SELECTIVE DEMOLITION OPERATIONS AND AS FOLLOWS:
- 1.1. PREVENT MOVEMENT AND INSTALL BRACING TO PREVENT SETTLEMENT OR DAMAGE OF ADJACENT SERVICES AND PARTS OF EXISTING BUILDINGS SCHEDULED TO REMAIN
 - 1.2. NOTIFY PROJECT MANAGER AND CEASE OPERATIONS WHERE SAFETY OF BUILDINGS BEING DEMOLISHED, ADJACENT STRUCTURES OR SERVICES APPEARS TO BE ENDANGERED AND AWAIT ADDITIONAL INSTRUCTIONS BEFORE RESUMING DEMOLITION WORK SPECIFIED IN THIS SECTION.
 - 1.3. PREVENT DEBRIS FROM BLOCKING DRAINAGE INLETS.
 - 1.4. PROTECT MECHANICAL SYSTEMS THAT WILL REMAIN IN OPERATION, INCLUDING HVAC AND SPRINKLER SYSTEMS.
2. PROTECTION OF BUILDING OCCUPANTS: SEQUENCE DEMOLITION WORK SO THAT INTERFERENCE WITH USE OF THE BUILDING BY OWNER AND USERS IS MINIMIZED AND AS FOLLOWS:
- 2.1. PREVENT DEBRIS FROM ENDANGERING SAFE ACCESS TO AND EGRESS FROM OCCUPIED BUILDINGS.
 - 2.2. NOTIFY PROJECT MANAGER AND CEASE OPERATIONS WHERE SAFETY OF OCCUPANTS APPEARS TO BE ENDANGERED AND AWAIT ADDITIONAL INSTRUCTIONS BEFORE RESUMING DEMOLITION WORK SPECIFIED IN THIS SECTION.

QUALITY ASSURANCE

1. REGULATORY REQUIREMENTS: PERFORM WORK OF THIS SECTION IN ACCORDANCE WITH:
- 1.1. PROVINCIAL/TERRITORIAL WORKERS' COMPENSATION BOARDS/COMMISSIONS
 - 1.2. GOVERNMENT OF CANADA, LABOUR PROGRAM: WORKPLACE SAFETY, PROVINCIAL/TERRITORIAL OCCUPATIONAL HEALTH AND SAFETY STANDARDS AND PROGRAMS

CUTTING AND PATCHING

THE CONTRACTOR IS RESPONSIBLE FOR THIS WORK AND SHALL CO-ORDINATE LOCATIONS FOR ALL HOLES AND PROVIDE PROPER PATCHING REQUIRED TO EXECUTE THE DEMOLITION WORK. REVIEW STRUCTURAL WALLS BEFORE CUTTING TO LOCATE EXISTING REBAR AND CONDUITS, AND OBTAIN PROJECT MANAGERS APPROVAL FOR PROPOSED CUTTING BEFORE PROCEEDING. PROVIDE ULC APPROVED FIRE STOPPING SYSTEM FOR ALL PENETRATIONS THROUGH RATED ASSEMBLIES.

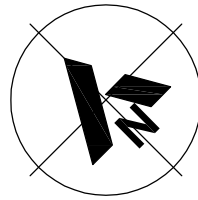
ELECTRICAL SPECIFICATIONS

SUMMARY

THIS SECTION INCLUDES REQUIREMENTS FOR INSTALLATION OF ELECTRICAL EQUIPMENT, COMMUNICATIONS, SAFETY AND SECURITY COMPONENTS INCLUDING FIRE ALARM PANELS, SMOKE DETECTOR, HEAT DETECTOR AND ISOLATOR TO COMPLETE WORK DESCRIBED IN THIS SECTION. COORDINATE WITH THE REQUIREMENTS AND INFORMATION CONTAINED IN SCOPE OF WORK.

FIRE ALARM

1. THE CONTRACTOR MUST PROVIDE ALL SHOP DRAWINGS, AND A SINGLE LINE DIAGRAM OF THE FIRE ALARM SYSTEM THAT HE PLANS TO CARRY OUT.
2. THE WIRING OF THE FIRE ALARM SYSTEM MUST BE INSTALLED IN EMT CONDUITS. THE FIRE ALARM SYSTEM MUST BE INSTALLED AND VERIFIED IN ACCORDANCE WITH ULC STANDARDS, CANADIAN NATIONAL BUILDING CODE, CANADIAN ELECTRICAL CODE AND ONTARIO MODIFICATIONS.
3. THE FIRE ALARM SYSTEM MUST BE PROGRAMMED AND TESTED, A CERTIFICATE OF CONFORMITY AND A VERIFICATION REPORT MUST BE ISSUED BY THE MANUFACTURER OF THE FIRE ALARM SYSTEM (OR ITS REPRESENTATIVE) STATING THAT THE SYSTEM IS IN CONFORMITY.
4. ANY MODIFICATIONS MADE TO THE EXISTING FIRE ALARM SYSTEM MUST BE VERIFIED AND TESTED AS BEING FUNCTIONAL. A CERTIFICATE OF CONFORMITY AND A VERIFICATION REPORT MUST BE ISSUED BY THE MANUFACTURER OF THE FIRE ALARM SYSTEM OR (ITS REPRESENTATIVE) STATING THAT THE SYSTEM IS IN CONFORMITY.
5. PROVIDE A CONNECTION TO THE MONITORING AGENCY.
6. BEFORE PROGRAMMING THE SYSTEM COORDINATE THE DESCRIPTION OF ALL ZONES WITH THE OWNER.
7. AN ALERT OR AN ALARM WILL'S ACTION ALSIGNALING DEVICES THROUGHOUT THE BUILDING.
8. PROVIDE A TIME DELAY CIRCUIT FOR THE HORN.
9. PROVIDE AN INDEPENDENT CIRCUIT FOR THE HORN, WITHOUT TIME-DELAY FOR STROBOSCOPE LIGHT AND A MODULE FOR SYNCHRONIZATION OF ALL ZONE STROBOSCOPE LIGHT.
10. CONNECT A MAXIMUM OF 60% FULL LOAD CURRENT ONTO THE SIGNALING CIRCUITS.
11. PROVIDE AT END OF LINE RESISTANCE AS REQUIRED.
12. IF POSSIBLE, RECESS THE NEW DEVICES INTO IN THE WALLS. IF THE NEW DEVICE HAVE TO BE SURFACE MOUNTED, PROVIDE A RED BOX AND PAINT THE CONDUIT THE SAME COLOR AS THE WALL. IF A SURFACE MOUNTED DEVICE SHARES A WALL WITH A TECHNICAL ROOM, ROUTE THE CONDUIT THROUGH THE TECHNICAL ROOM AND PIERCE THE WALL.
13. PROVIDE RED METALLIC COVER PLATES TO COVER THE IMPERFECTION ON THE WALL AROUND THE DEVICES.
14. PROVIDE INTERLOCKING OF VENTILATION UNITS CONTROLLED BY THE FIRE ALARM PANEL.
15. ALL SMOKE DETECTORS MUST HAVE A MINIMUM DETECTION AREA OF 83M².
16. ALL HEAT DETECTORS MUST HAVE A MINIMUM DETECTION AREA OF 400M².
17. PROVIDE CERTIFICATION OF THE COMPLETE FIRE ALARM SYSTEM STATING THAT IT IS FUNCTIONING PROPERLY.
18. PROVIDE AND INSTALL 5 EXTRA STROBE AND HORN COMBINATION, INCLUDING FOR EACH UNIT: 3M OF CONDUIT, WIRING AND ACCESSORIES TO ADJUST THE SOUND LEVEL IF REQUIRED. GIVE THE REMAINING HORNS THAT WERE NOT USED TO THE OWNER.
19. PROVIDE AND INSTALL 5 EXTRA SMOKE DETECTORS, INCLUDING FOR EACH UNIT: 3M OF CONDUIT, WIRING AND ACCESSORIES. POSITIONING WILL BE COORDINATED AS REQUIRED. GIVE THE REMAINING SMOKE DETECTORS THAT WERE NOT USED TO THE OWNER.
20. PROVIDE AND INSTALL 5 EXTRA HEAT DETECTORS, INCLUDING FOR EACH UNIT: 3M OF CONDUIT, WIRING AND ACCESSORIES. POSITIONING WILL BE COORDINATED AS REQUIRED. GIVE THE REMAINING HEAT DETECTORS NOT USED TO THE OWNER.
21. PROVIDE AND INSTALL A LOOP ISOLATOR FOR EACH ZONE. WHEN POSSIBLE, INSTALL THE LOOP ISOLATORS IN THE FIRE ALARM PANEL.
22. PROVIDE AND INSTALL CLASS "A" WIRING TO INTERCONNECT THE DIFFERENT LOOP ISOLATORS AND INSTALL WIRING INSIDE CLASS"B" CONDUIT. CLASSES "B" WIRING FOR EACH INDIVIDUAL ZONE. ACCEPTABLE PRODUCT: MIRCOM, EDWARDS, SIMPLEX.



2023-10-21
Contractor to verify all dimensions & conditions on site and immediately notify the departmental representative of all discrepancies.

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| B | ISSUED FOR TENDER | 2023-10-20 |
| A | ISSUED FOR 66% REVIEW | 2023-08-09 |

| revisions | description | date |
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| <div><div>A</div><div>C</div></div> | A detail no. no. du détail B location drawing no. sur dessin no. C drawing no. dessin no. | <div><div>A</div><div>B</div><div>C</div></div> |

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| KCECC ALUMNI HALL FIRE ALARM | |
| 820 HERITAGE DRIVE, KEMPTVILLE, ON | |

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| drawing | dessin |
| ELECTRICAL SPECIFICATIONS | |

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| Designed By | ZCM | Conçu par |
| Date | JULY 2023 | (yyyy/mm/dd) |
| Drawn By | ZCM | Dessiné par |
| Date | JULY 2023 | (yyyy/mm/dd) |
| Reviewed By | C. Sylvestre | Examiné par |
| Date | | (yyyy/mm/dd) |
| Approved By | C. Sylvestre | Approuvé par |
| Date | | (yyyy/mm/dd) |
| Tender | | Soumission |
| Project Manager | Bruce Jackson Administrateur de projets | |
| Project no. | | No. du projet |

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