

**Part 1            General**

**1.1                REFERENCES**

- .1        Canadian Electrical Code C 22.1 and CSA C 22.2.
- .2        Alberta Fire Code.
- .3        Alberta Building Code.
- .4        ULC – Underwriters’ Laboratories of Canada, 524 and 537.
- .5        Additional section references:
  - .1        Section 01 33 00 - Submittal Procedures
  - .2        Division 01 – General Requirements
  - .3        Section 26 05 01 - Electrical General Requirements
  - .4        Section 26 05 02 - Electrical Field Inspection and Testing

**1.2                SECTION INCLUDES**

- .1        This performance specification provides the minimum requirements for the Fire Alarm System. The system shall include, but not be limited to all equipment, materials, labor, documentation and services necessary to furnish and install a complete, operational system to include but not limited to the following devices:
  - .1        Automatic fire detectors.
- .2        All Fire Alarm System equipment shall be arranged and programmed to provide a system for the early detection of fire, the notification of building occupants, the override of the HVAC system operation when required, and the activation of other auxiliary systems to inhibit the spread of smoke and fire, and to facilitate the safe evacuation of building occupants.
- .3        The System shall utilize independently addressed, smoke and heat detectors and input/output modules as described elsewhere in this specification.

**1.3                SYSTEM DESCRIPTION**

- .1        This system shall be an intelligent, addressable, selectable between strobe only and continuous sounding with strobe lights, ULC listed, electrically supervised system, fully installed, tested and left in first class operating conditions.
- .2        Interface the new system with the existing fire alarm wiring such that the trouble alarm function of the new system will be monitored by the main fire alarm panel using monitoring modules and isolation modules as required.
- .3        Provide and install new fire detection and alarm system consisting of:
  - .1        Duct smoke detection shall be provided as shown on the drawings.
  - .2        All wiring (conduit, outlets, wire, etc.) required to provide power to and interconnect all components listed above.

- .3 All wiring (conduit, outlets, wire, etc.) required to provide power to, and interconnect, devices supplied under other divisions, including:
  - .1 HVAC shutdown of air handling units through temperature control panels.
  - .2 Interface with the Building Automation System (BAS) where provided.
- .4 The provision of all submittals required by the Departmental Representative and local authorities, and the obtaining of all approvals there from.
- .4 All equipment shall be ULC listed compatible as a product of a single fire alarm system manufacturer.
- .5 Any devices interfacing with the existing fire alarm system equipment shall be ULC recognized as compatible.

#### **1.4 SYSTEM CONFIGURATION**

- .1 The system shall be configured such that system Initiating Device Circuits (IDC) shall not leave large areas of the building unprotected upon cable failure. The following rules must be maintained when wiring this system:
  - .1 The use of isolating modules across floors or in between process areas is required.
  - .2 The supply and return lines shall be routed in different conduits, so as to enhance system protection. A fault isolation module or equivalent device shall be installed where crossing multiple floors or zones.
- .2 Duct-type smoke detectors shall be installed at a location in the main supply air duct on the downstream side of the filter units; and at a location in the return air duct prior to exhausting from the building or prior to being diluted by outside fresh air.
- .3 Coordinate with mechanical contractor for intent of duct smoke detectors near dampers.

#### **1.5 DUCT SMOKE OPERATION-ALARM**

- .1 The alarm activation of any duct-type smoke detector shall automatically shut down the local air handling unit.
  - .1 Shut down interlock are to be directly operated by the duct-type smoke detector.

#### **1.6 SUBMITTALS**

- .1 Submit under provisions of Division 01 and Section 26 05 00 - Common Work Results for Electrical.
- .2 Product Data
  - .1 Supply data sheets with the printed logo or trademark of the manufacturer for all equipment. Indicated in the documentation will be the type, size, rating, style, and catalog number for all items proposed to meet the system performance detailed in this specification. The proposed equipment shall be subject to the approval of the Departmental Representative.

- .3 Shop Drawings
  - .1 A complete set of shop drawings shall be supplied. The shop drawings shall be reproduced electronically in digital format. This package shall include but not be limited to:
    - .1 Control panel wiring and interconnection schematics.
    - .2 Complete point to point wiring diagrams.
    - .3 Riser diagrams.
    - .4 Logic diagrams.
  - .2 Complete floor plan drawing locating all system devices and elevation of all equipment in the Fire Alarm System. Including showing the placement of each individual item of fire alarm equipment as well as raceway size and routing, junction boxes, and conductor size, quantity, and color in each raceway.
  - .3 Detailed system operational description. Any Specification differences and deviations shall be clearly noted and marked.
  - .4 Complete system bill of materials.
- .4 Shop Drawings:
  - .1 Submit under provisions of Division 01 and Section 26 05 00 - Common Work Results for Electrical.
  - .2 Complete shop drawings of all custom-fabricated or assembled products, including wiring diagrams.
  - .3 Drawings identifying all terminals and illustrating all device wiring connections.
  - .4 Bill of materials listing all components and devices.
  - .5 Product Data: Provide electrical characteristics and typical connection requirements.
  - .6 All and any information and data (such as drawings showing device locations and types, typical riser diagrams, typical wiring diagrams, approvals, test data, etc.)
- .5 Test Reports: Indicate satisfactory completion of required tests and inspections.  
Manufacturer's Installation Instructions: Indicate application conditions and limitations of use stipulated by Product testing agency. Include instructions for storage, handling, protection, examination, preparation, installation, and starting of products.

## 1.7 OPERATION AND MAINTENANCE DATA

- .1 Provide operation and maintenance manuals with the following:
  - .1 Nomenclature of all replaceable parts, part numbers, present costs, and name and address of nearest vendor of parts. Where manuals include manufacturer's catalogue pages, clearly indicate items included and delete it as not included in this installation.
  - .2 Copy of guarantees and warranties.
  - .3 Copy of approved show drawings with data concerning changes made during construction.
- .2 Upon approval of rough draft, submit three (3) final copies as to each such unit of equipment.

## **1.8 WARRANTY**

- .1 The contractor shall warranty all materials, installation and workmanship for one (1) year from data of acceptance, unless otherwise specified in Division 01 – General Requirements. A copy of the manufacturer’s warranty shall be provided with close-out documentation and included with the operation and installation manuals.
- .2 The System Supplier shall maintain a service organization with adequate spare parts stock within 150 km of the installation. Any defects that render the system inoperative shall be repaired within 24 hours of the Departmental Representative notifying the contractor.

## **1.9 SPARE PARTS**

- .1 The Contractor shall supply the following spare parts:
  - .1 Automatic detection devices – 2% of the installed quantity of each type, rounding up to the nearest number of devices.
  - .2 Manual fire alarm stations – 2% of the installed quantity of each type, rounding up to the nearest number of devices.
  - .3 Glass rods or panels for break glass manual fire alarm stations – 10% of the installed quantity, but no less than two devices.
  - .4 Audible and visible devices – 1% of the installed quantity of each type, but no less than two (2) devices.
  - .5 Keys – A minimum of three (3) sets of keys shall be provided and appropriately identified.

## **1.10 TRAINING**

- .1 The System Supplier shall schedule and present a minimum of 4 hours of documented formalized instruction for the Departmental Representative, detailing the proper operation of the installed System.
- .2 The instruction shall be presented in an organized and professional manner by a person factory-trained in the operation and maintenance of the equipment and who is also thoroughly familiar with the installation.
- .3 The instruction shall cover the schedule of maintenance required by Alberta Building and Fire Codes and any additional maintenance recommended by the system manufacturer.
- .4 Instruction shall be made available to the Local Municipal Fire Department if required by the Local Authority Having Jurisdiction.

## **Part 2 Products**

### **2.1 MANUFACTURERS**

- .1 All new system components shall be the cataloged products of a single supplier. All products shall be listed by the manufacturer for their intended purpose.
- .2 All control panel assemblies and connected field appliances shall be both designed and manufactured by the same company, and shall be tested and cross-listed as to ensure that a fully functioning system is designed and installed. The system supplied under this specification shall be a microprocessor-based system. The system shall utilize

- independently addressed, microprocessor-based smoke detectors, heat detectors, and modules as described in this specification.
- .3 The authorized representative of the manufacturer of the major equipment shall be responsible for the satisfactory installation of the complete system.
  - .4 All control panel assemblies and connected field appliances shall be provided by the same system supplier, and shall be designed and tested to ensure that the system operates as specified. The system shall utilize independently addressed, microprocessor-based smoke detectors, heat detectors, as described in this specification.
  - .5 All equipment and components shall be the manufacturer's current model. The materials, appliances, equipment and devices shall be tested and listed by a nationally recognized approval agency for use as part of a protected premises protective signaling (fire alarm) system. The authorized representative of the manufacturer of the major equipment, such as control panels, shall be responsible for the satisfactory installation of the complete system.
  - .6 The contractor shall provide, from the acceptable manufacturer's current product lines, equipment and components, which comply, with the requirements of these specifications. Equipment or components, which do not provide the performance and features, required by these specifications are not acceptable, regardless of manufacturer.
  - .7 All equipment and components shall be installed in strict compliance with the manufacturer's recommendations.

## **2.2 INITIATING DEVICES**

- .1 Duct-type smoke detectors
  - .1 Each analog addressable smoke detector's sensitivity shall be capable of being programmed individually as: most sensitive, more sensitive, normal, less sensitive or least sensitive. In addition to the five sensitivity levels the detector shall provide a pre-alarm sensitivity setting, which shall be settable in 5% increments of the detector's alarm sensitivity value.
  - .2 An alternate alarm sensitivity level shall be provided for each detector, which can be set to any of the five (5) sensitivity settings manually or automatically using a time of day event. In addition to the five alternate sensitivity levels the detector shall provide an alternate pre-alarm sensitivity setting, which shall be settable in 5% increments of the detector's alternate alarm sensitivity value.
  - .3 The detector shall be able to differentiate between a long drift above the pre-alarm threshold and fast rise above the threshold.
  - .4 The detector's sensing element reference point shall automatically adjust, compensating for background environmental conditions such as dust, temperature, and pressure. Periodically, the sensing element real-time analog value shall be compared against its reference value. The detector shall provide a maintenance alert signal that 75% to 99% compensation has been used. The detector shall provide a dirty fault signal that 100% or greater compensation has been used.
  - .5 The system shall allow for changing of detector types for service replacement purposes without the need to reprogram the system. The replacement detector type shall automatically continue to operate with the same programmed sensitivity levels and functions as the detector it replaced. System shall display

an off-normal condition until the proper detector type has been installed or change in the application program profile has been made.

- .6 Provide smoke detector duct housing assemblies to mount an analog/addressable detector along with a standard, relay or isolator detector mounting base. The housing shall also protect the measuring chamber from damage and insects. The housing shall utilize an air exhaust tube and an air sampling inlet tube that extends into the duct air stream up to ten feet. Drilling templates and gaskets to facilitate locating and mounting the housing shall also be provided. The housing shall be finished in baked red enamel. Remote alarm LED indicators and remote test stations shall be provided.
- .7 Where smoke detectors are directly inserted into a low velocity ducts 3 ft (0.91 m) high x 3 ft (0.91 m) wide, ceiling plenums, or raised floors, provide factory supplied mounting plate assemblies to facilitate mounting the detectors. The mounting plate shall be code gauge steel with corrosion resistant red enamel finish. The detector mounting plate shall support an analog/addressable detector along with a standard, relay or isolator detector mounting base.
- .8 Acceptable Product: System Sensor Innovair Flex DNRA

### **2.3 FIRE ALARM WIRE AND CABLE**

- .1 Fire Alarm Power Branch Circuits: Building wire FT 4 rated, red insulation.
- .2 Run cable in conduit in exposed locations or where subject to damage as per CEC.
- .3 Exposed non-current carrying metal parts of electrical equipment including outlet boxes, conductor enclosures, raceway, and cabinets shall be bonded to ground in accordance with the Canadian Electrical Code.

## **Part 3 Execution**

### **3.1 SHOP DRAWINGS**

- .1 Contractor to provide vendor supplied battery calculations, interconnection drawings and logic diagrams for the propose fire alarm system prior to construction.

### **3.2 INSTALLATION**

- .1 Install products in accordance with manufacturer's instructions. Installation shall be supervised and tested by the manufacturer of the system equipment. The work shall be performed by skilled technicians, all of whom shall be properly trained and qualified for this work.
- .2 Initiating device circuits, including smoke and heat detectors, valve supervisory switches and manual pull stations shall be Class A wiring.
- .3 Notification appliance circuits shall be Class B wiring. All notification appliance circuits shall have a minimum circuit output rating of 1 amp at 24 VDC. The notification circuits shall be power limited. Non-power limited circuits are not acceptable.
- .4 Minimum size wiring for individual devices is as follows:
  - .1 Bells and/or horns - 2#14
  - .2 Strobes - 2 #14.
  - .3 Signalling line or initiating device circuit wiring - 2 #18 twisted shielded.

- .4 Remote annunciator/graphic devices - 2 #18 twisted shielded for data transmission and 2 #14 for power.
- .5 Conductors within equipment enclosures shall be carefully cabled and laced. Individual conductors shall be tagged with E-Z code markers indicating circuit number and type. Markers shall be used on all conductors at each outlet or pull box and at each equipment enclosure.
- .6 Outlet pull and junction boxes shall be painted red on the exterior and shall be installed in accordance with Section 26 05 31 - Splitters, Junction, Pull Boxes, and Cabinets.
- .7 Locate all duct detectors associated with main air handling units (supply and return ducts) in the locations shown on the drawings.
- .8 All duct detectors in association with fire/smoke dampers shall be located upstream of these dampers as per ULC 524.
- .9 T-tapped connections will not be allowed on any supervised or SLC circuits. Connections shall be made directly to and from device terminal screws of fire alarm devices. Screw terminals shall have rising plates to terminate more than one wire or each wire shall be terminated to individual screws or each wire shall terminate in a ring lung.
- .10 Cabling serving any supervised and SLC circuits shall not be spliced in any boxes. Cabling shall be continuous between field devices, "splice-free".
- .11 Breakers supplying fire alarm equipment shall be painted red.

### **3.3 FIELD QUALITY CONTROL**

- .1 Field inspection and testing will be performed under provisions of Section 26 05 00 – Common Work Results for Electrical and 01 45 00 – Quality Control.
- .2 Verify installation according to the Alberta Building Code and Alberta Fire Code, provide verification report and sealed certificate for completion.

### **3.4 MANUFACTURER'S FIELD SERVICES**

- .1 Upon completion of the system's modification and installation, an approved representative of the system manufacturer shall be employed to conduct a thorough test of the system and submit a written report of the findings to the Departmental Representative. The test shall be per Alberta Building Code and Alberta Fire Code and shall include, at the least, verifying the following:
  - .1 The functional operation of each resettable initiating device (manual stations, detectors, etc.) and circuit.
  - .2 The functional operation of each and every alarm device and circuit.
  - .3 The functional operation of each monitored device circuit.
  - .4 The functional operation of each control circuit.
  - .5 The supervision functions of each Initiating, Indicating, Monitoring, Control and Supply Circuit.
  - .6 Control station automatic signalling.
  - .7 All tests shall be completed in the presence of the Departmental representative.

**3.5 DEMONSTRATION**

- .1 Provide systems demonstration by a fully qualified, trained representative of the equipment supplier.

**3.6 VERIFICATION**

- .1 Verify the system to ULC 537-04.

**END OF SECTION**



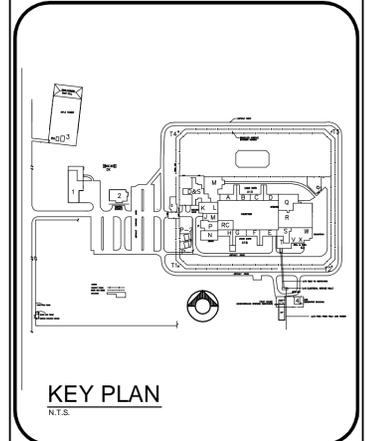
Service  
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Canada

EDMONTON MAXIMUM SECURITY  
EDMONTON, ALBERTA  
FIRE ALARM UPGRADE  
LIST OF DRAWINGS

DRAWING	DESCRIPTION
E00	COVER SHEET
E01	OVERALL SITE PLAN-LEGEND/NOTES
E02	ADMINISTRATION BUILDING AND BLOCKS D/S-PARTIAL LOWER FLOOR PLANS-MAIN BUILDING
E03	PARTIAL LOWER FLOOR PLAN-MAIN BUILDING-BLOCKS A/B/C & D
E04	PARTIAL LOWER FLOOR PLAN-MAIN BUILDING-BLOCKS H/G/F & E
E05	PARTIAL UPPER FLOOR PLAN-MAIN BUILDING-BLOCKS A/B/D/M/K/L & S
E06	PARTIAL MAIN FLOOR PLAN-MAIN BUILDING-BLOCKS C/D & Q
E07	PARTIAL UPPER FLOOR PLAN-MAIN BUILDING-BLOCKS J/M/P/N/R/C/H & G
E08	PARTIAL MAIN FLOOR PLAN-MAIN BUILDING-BLOCKS R/S/T/V/X/W/E & F
E09	TUNNEL PLAN FOR MAIN BUILDING
E10	PARTIAL UPPER FLOOR PLAN-MAIN BUILDING
E11	PARTIAL UPPER FLOOR PLAN-MAIN BUILDING
E12	FAMILY VISIT BUILDING 1 AND 2-FIREARMS BUILDING GATEHOUSE BUILDING
E13	PUMPHOUSE/GENERATOR/GUARD TOWERS/DOG KENNEL BUILDINGS
E14	WAREHOUSE BUILDING MAIN AND MEZZANINE FLOORS
E15	FIRE ALARM RISER
E16	OVERALL BLOCK DIAGRAM FLOOR PLAN F/A SHUTDOWN-INFORMATION ONLY
E17	OVERALL BLOCK DIAGRAM FLOOR PLAN F/A SHUTDOWN-INFORMATION ONLY

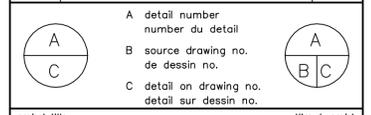
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9	ISSUED FOR RECORD DRAWING	13/06/12
8	E01 SITE PLAN ISSUED FOR RECORD DRAWING	12/10/18
7	ISSUED FOR CONSTRUCTION	09/06/01
6	ADDENDUM E1	09/03/18
5	ISSUED FOR TENDER	09/02/03
4	ISSUED FOR 100% TENDER	09/01/02
3	ISSUED FOR 99% REVIEW	08/10/13
2	ISSUED FOR 50% RE-SUBMISSION	08/09/10
1	ISSUED FOR 50% REVIEW	08/04/11

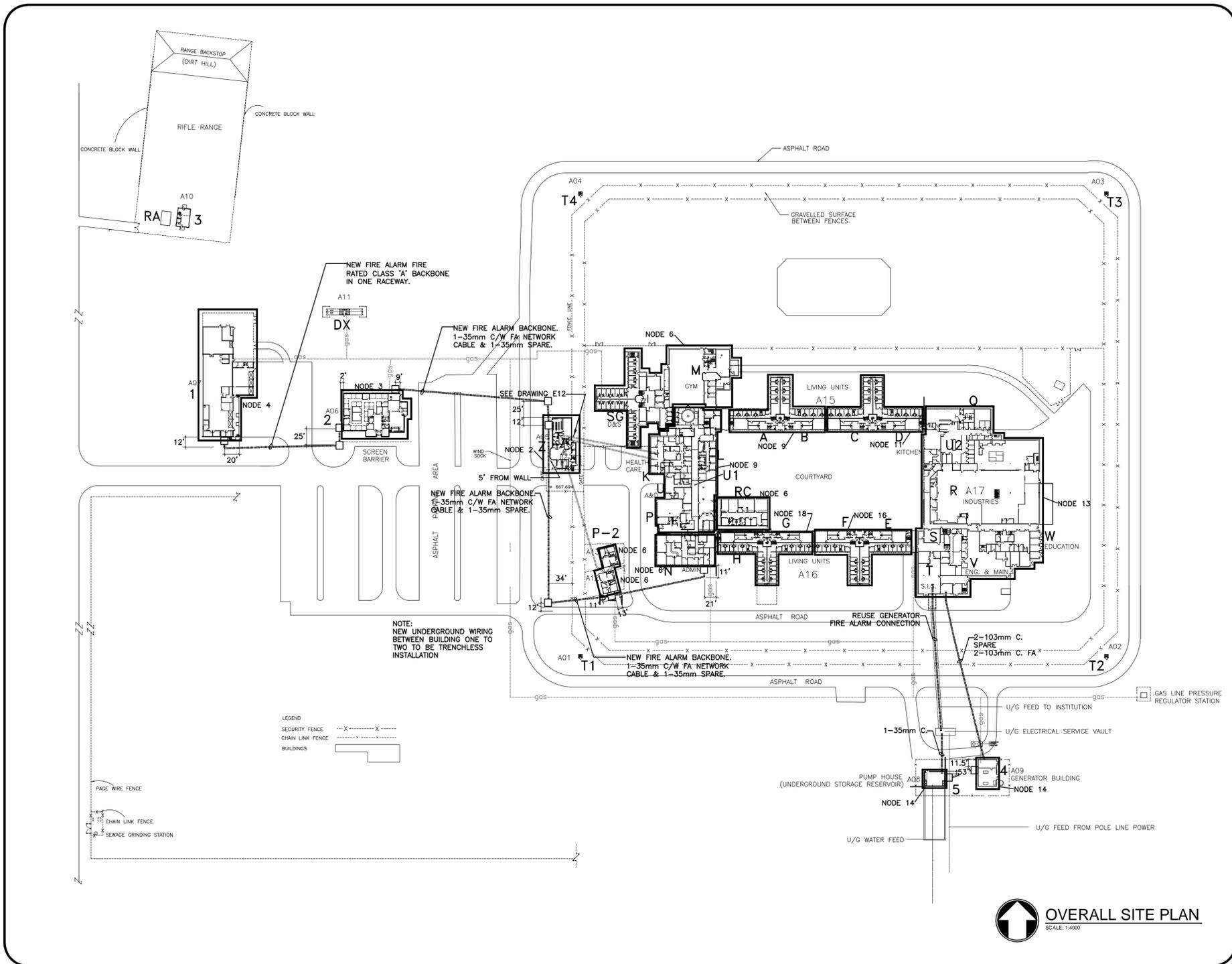


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drawing title: **OVERALL SITE PLAN LEGEND/NOTES**

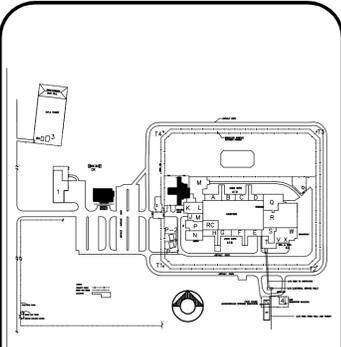
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 drawn by: **L. HONDERD**  
 approved by: **P. BEAUBIEN**  
 PWGSC Project Manager: **Administrateur de Projets TPSGC**  
 scale: **AS NOTED**  
 project no.: **R.014522.001**  
 date: **APRIL 17, 2013**  
 sheet: **E01 OF 17**

- LEGEND**
- [F] FIRE ALARM MANUAL PULL STATION
  - [FK] FIRE ALARM MANUAL PULL STATION—KEY OPERATED
  - [FKP] FIRE ALARM MANUAL PULL STATION—KEY OPERATED
  - [●] FIXED TEMPERATURE HEAT DETECTOR (55°C OR 88°C)
  - [●] RATE OF RISE HEAT DETECTOR
  - [●] RATE OF RISE HEAT DETECTOR C/W GUARD COVER
  - [⊗] SMOKE DETECTOR
  - [⊗] SMOKE DETECTOR C/W GUARD COVER
  - [⊗] AUXILIARY SMOKE DETECTOR
  - [⊗] DUCT DETECTOR
  - [•] DEVICE REMOTE INDICATING LIGHT
  - [W] END OF LINE RESISTOR
  - [D] DOOR CONTACT
  - [F] FIRE ALARM BELL
  - [FK] FIRE ALARM HORN/STROBE
  - [FK] FIRE ALARM HORN
  - [FK] FIRE ALARM HORN C/W GUARD
  - [S] FIRE ALARM STROBE
  - [ ] FIRE ALARM CONTROL PANEL (FACP)
  - [X] FT SPRINKLER TAMPER SWITCH
  - [X] F SPRINKLER FLOW SWITCH
  - [X] P SPRINKLER PRESSURE SWITCH
  - [X] AUX SPRINKLER AUXILIARY SWITCH
  - [ME] MONITORING ELEMENT
  - [CE] CONTROL ELEMENT
  - [R/A] RETURN AIR
  - [GA] GENERAL ALARM
  - [NIC] NOT IN CONTRACT
  - [WG] WIRE GUARD ENCLOSURE
  - [WP] WEATHER PROOF
  - [UF] UNDER FLOOR
  - [X] REMOVE EQUIPMENT
  - [ ] SOLID IS NEW
  - [ ] EXISTING IS HALF TONE
- ADD [ME] AT EACH



**OVERALL SITE PLAN**  
 SCALE: 1:4000

AREA CODE	AREA DESCRIPTION	AREA CODE	AREA DESCRIPTION
A to C	CELL BLOCKS	U-1	EAST MECHANICAL ROOM
D	MENTAL HEALTH CELL BLOCK	U-2	WEST MECHANICAL ROOM
E to F	CELL BLOCKS	V	ENGINEERING & MAINTENANCE
G to H	INTAKE ASSESSMENT CELL BLOCKS	W	SCHOOL
I	TUNNEL AREA	X	-
J	ADMISSION & DISCHARGE	Z	GATEHOUSE
K	HEALTH CARE CENTRE	DX	DOG KENNELS & RUNS
L	PSYCHOLOGY & CHAPEL AREA	RC	INTAKE ASSESSMENT PROGRAMS BUILDING
M	PROGRAM & CHAPEL AREA	SG	DISSOCIATION & SEGREGATION
M	GYM, LIBRARY & NATIVE BROTHERHOOD	T1	GUARD TOWER
M	GYM	T2	GUARD TOWER
N	EXECUTIVE SERVICES	T3	GUARD TOWER
P	VISITS & CORRESPONDENCE	T4	GUARD TOWER
P-1	PRIVATE FAMILY VISIT-1	RA	GAS/FIRE TRAINING
P-2	PRIVATE FAMILY VISIT-2	T	WAREHOUSE/GARAGE
Q	KITCHEN	2	ADMINISTRATION
R	CORCAN	3	WEAPONS RANGE
S	INSTITUTIONAL SERVICES	4	GENERATOR BLDG
T	SERVICES AND BOILER ROOM	5	PUMP HOUSE
		Y	CATWALK (SEE DRAWING E11)



KEY PLAN N.T.S.

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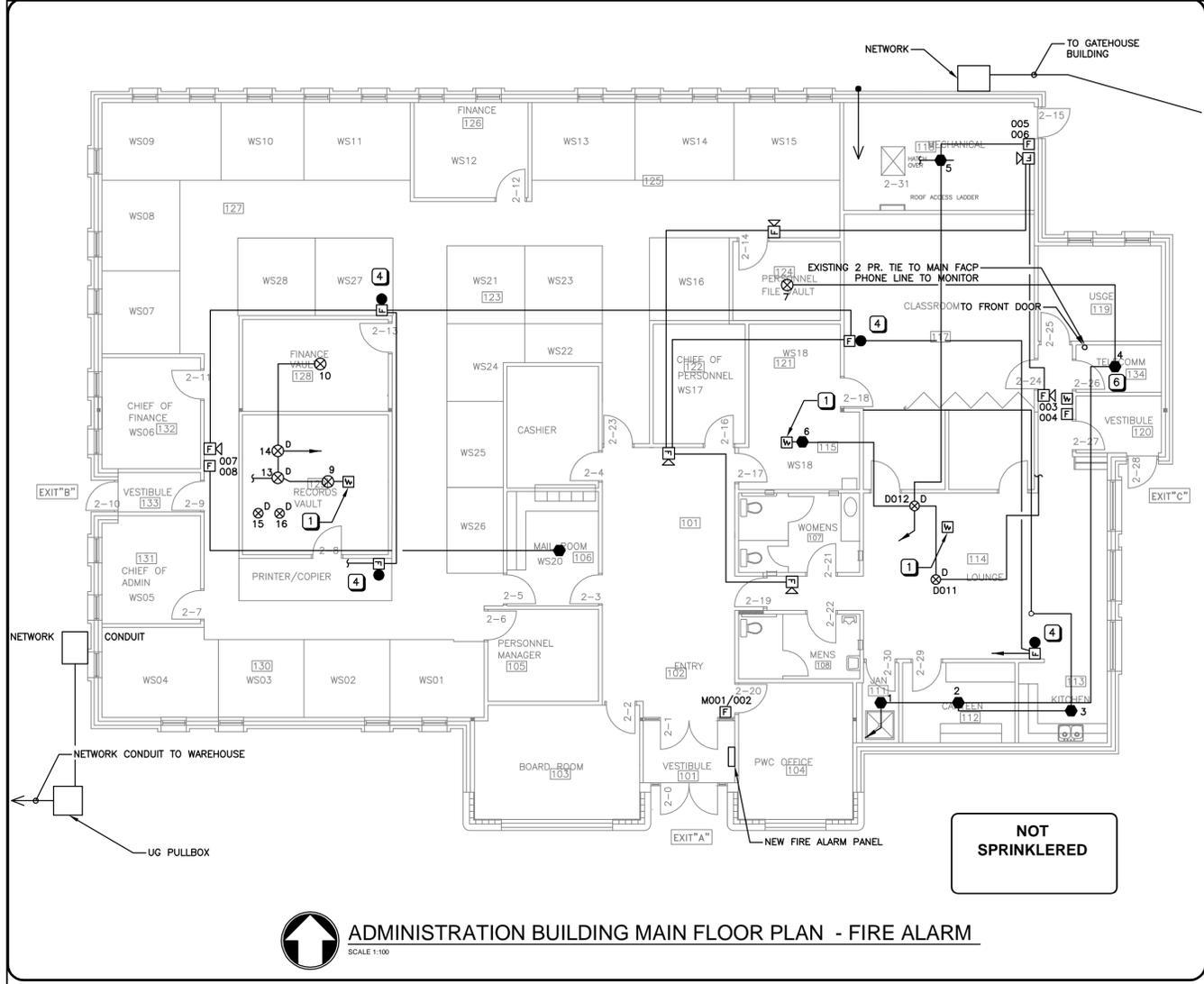
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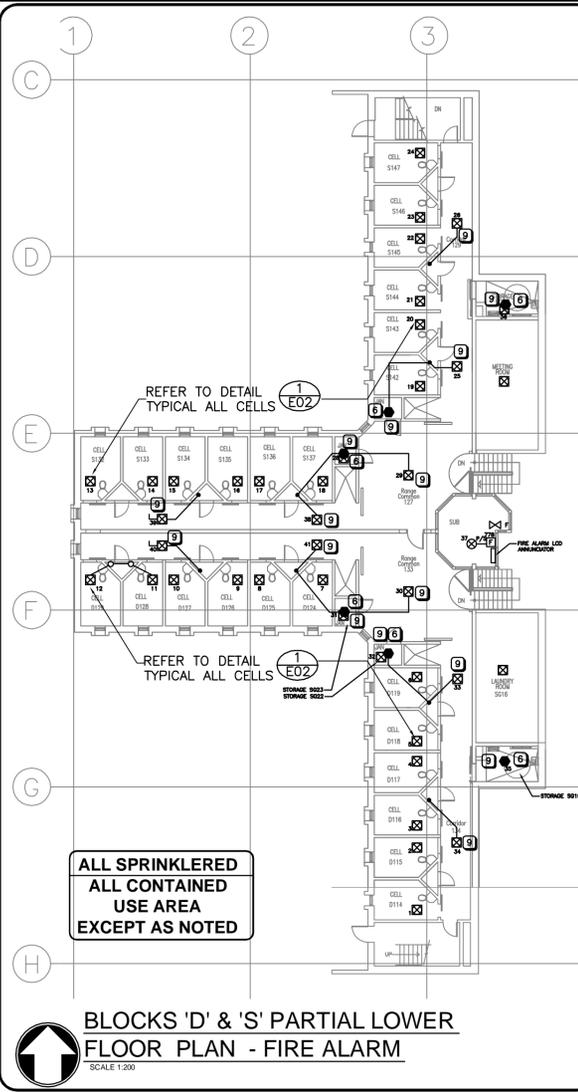
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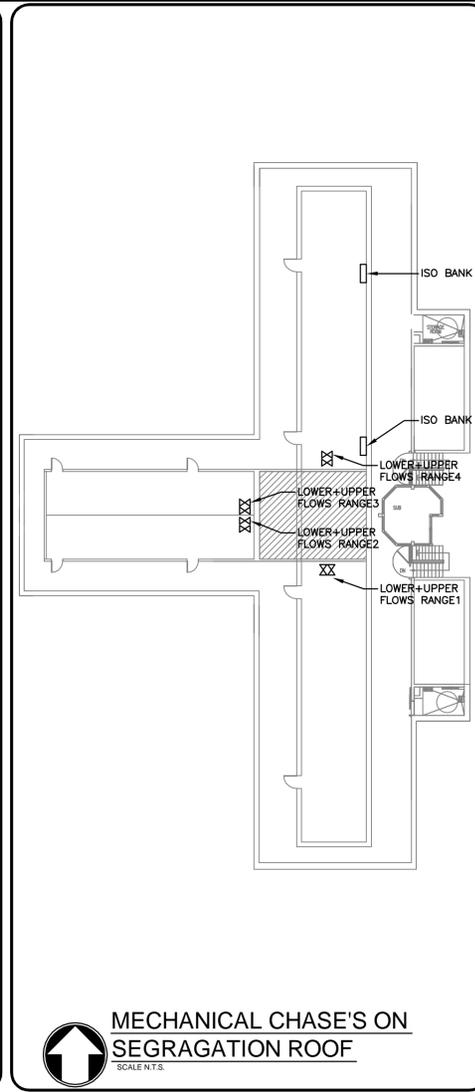
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 drawn by: L. HONDERD  
 approved by: P. BEAUBIEN  
 scale: AS NOTED  
 project no.: R.014522.001  
 date: APRIL 17, 2013



ADMINISTRATION BUILDING MAIN FLOOR PLAN - FIRE ALARM SCALE 1:100



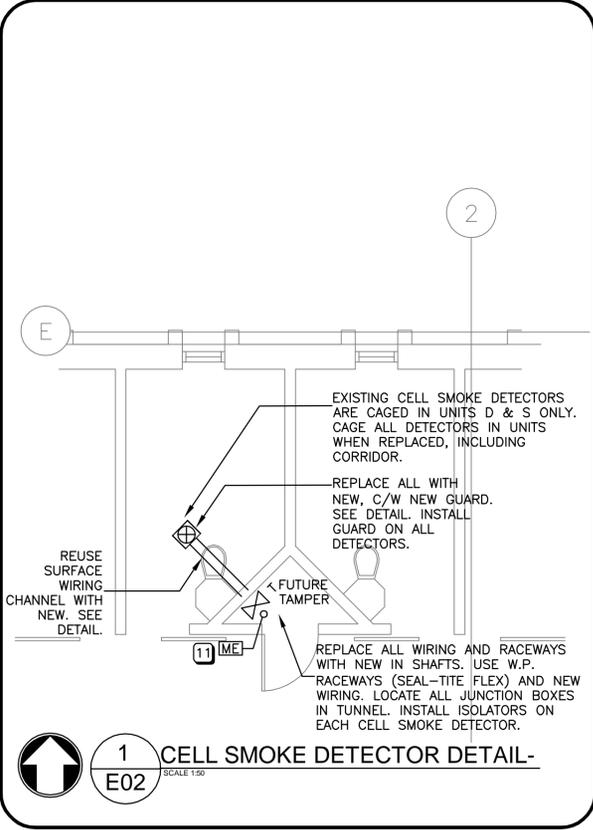
BLOCKS 'D' & 'S' PARTIAL LOWER FLOOR PLAN - FIRE ALARM SCALE 1:200



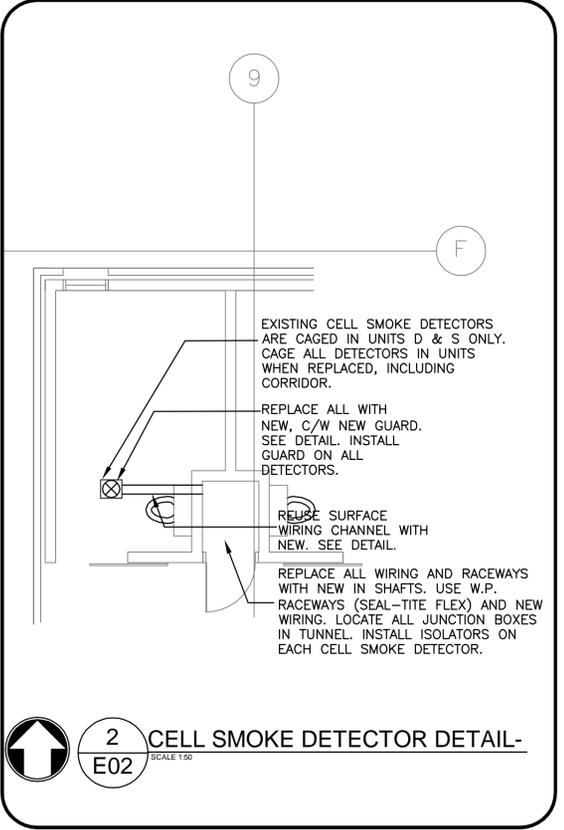
MECHANICAL CHASE'S ON SEGREGATION ROOF SCALE N.T.S.

KEYNOTES

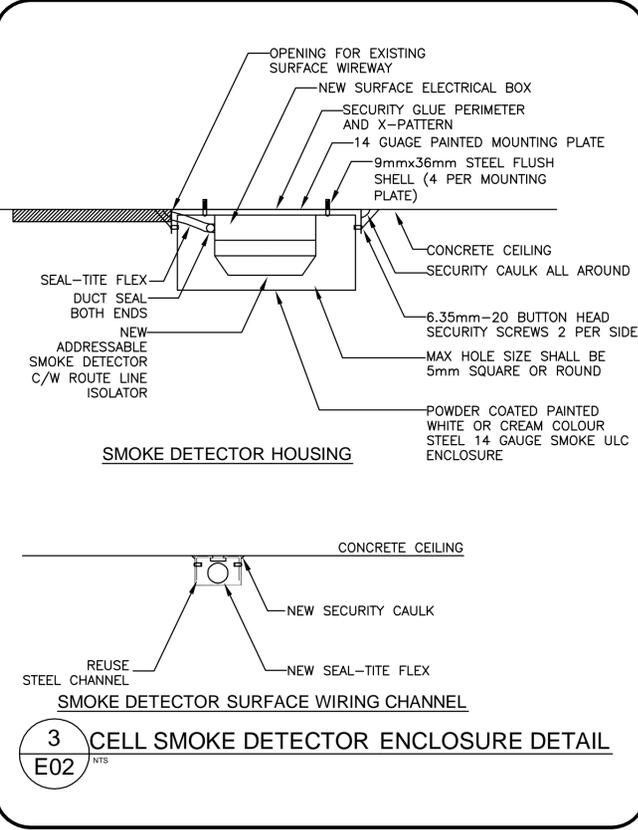
- 1 REMOVE AND BLANK OFF.
- 2 SURFACE INSTALLATION.
- 3 RECESSED INSTALLATION.
- 4 CHANGE FROM BELL TO HORN
- 5 NOT USED
- 6 CHANGE FROM HEAT DETECTOR TO SMOKE DETECTOR.
- 7 NOT USED
- 8 CHANGE HORN TO SURFACE 100mm WALL HORN/STROBE
- 9 ADD GUARD COVER
- 10 FIRE ALARM BACKBONE
- 11 FOR FUTURE CELL SPRINKLER TAMPER SWITCHES. DO NOT LOCATE IN SERVICE SHAFT BUT INSTALL 2 PAIR FROM EACH MONITORING ELEMENT TO FUTURE TAMPER SWITCH LOCATION (D AND S ONLY)



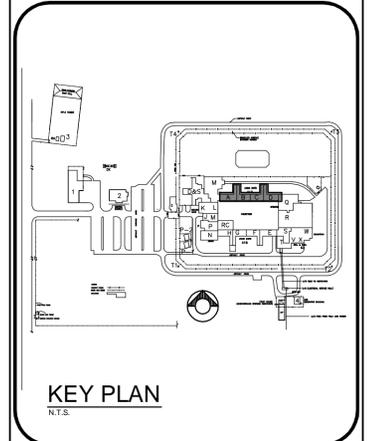
CELL SMOKE DETECTOR DETAIL - E02 SCALE 1:50



CELL SMOKE DETECTOR DETAIL - E02 SCALE 1:50



CELL SMOKE DETECTOR ENCLOSURE DETAIL - E02 N.T.S.



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REVISIONS	DESCRIPTION	DATE
9	ISSUED FOR RECORD DRAWING	13/06/12
8	E01 SITE PLAN ISSUED FOR RECORD DRAWING	12/10/18
7	ISSUED FOR CONSTRUCTION	09/06/01
6	ADDENDUM E1	09/03/18
5	ISSUED FOR TENDER	09/02/03
4	ISSUED FOR 100% TENDER	09/01/02
3	ISSUED FOR 99% REVIEW	08/10/13
2	ISSUED FOR 50% RE-SUBMISSION	08/09/10
1	ISSUED FOR 50% REVIEW	08/04/11

A C	A detail number number du detail	A B C
	B source drawing no. de dessin no.	
	C detail on drawing no. detail sur dessin no.	

project title: **EDMONTON MAXIMUM SECURITY INSTITUTE** titre du projet  
**FIRE ALARM UPGRADE**

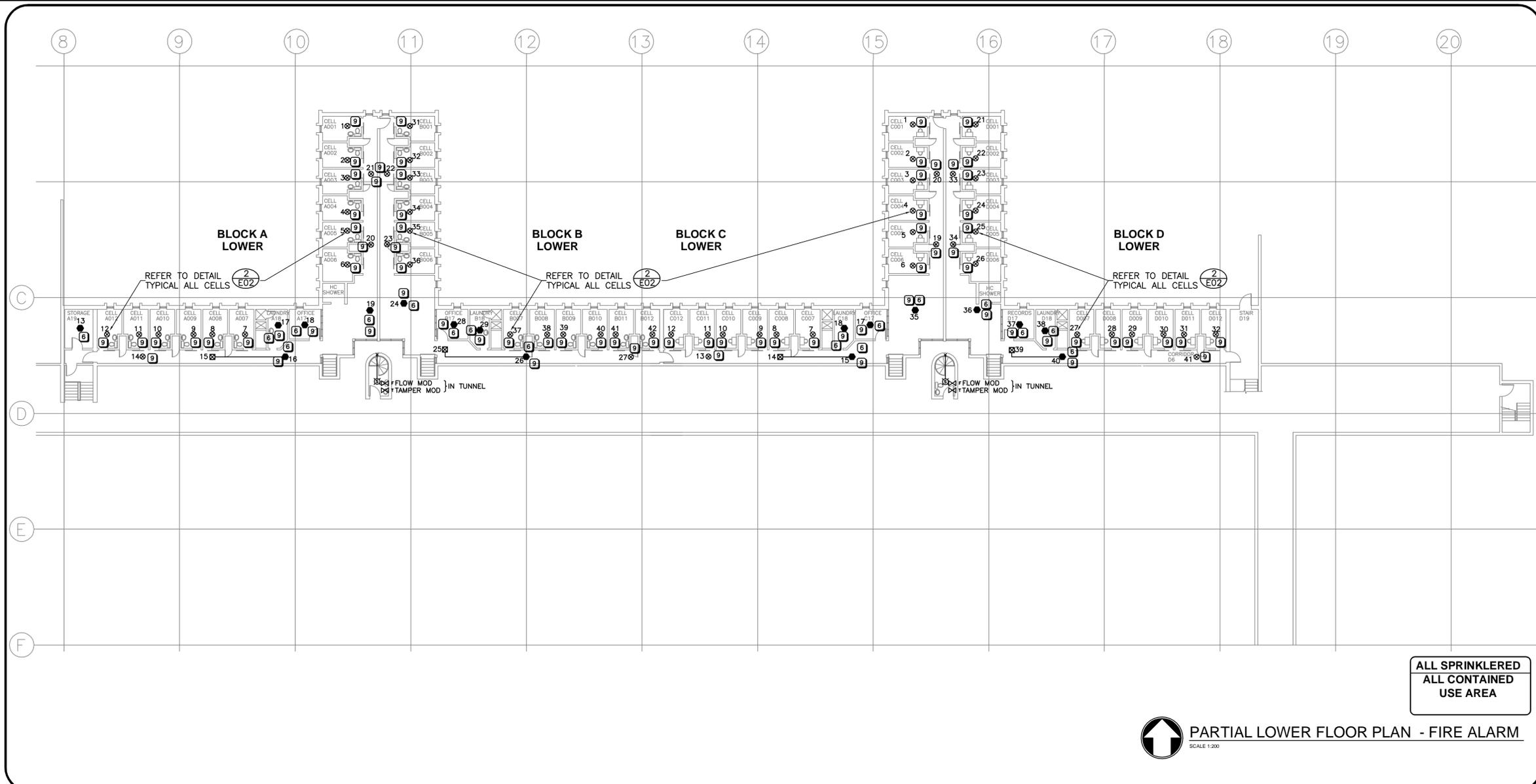
drawing title: **PARTIAL LOWER FLOOR PLAN MAIN BUILDING BLOCKS A/B/C & D** titre du dessin

designed by: P. BEAUBIEN concu par  
 drawn by: L. HONDERD dessine par  
 approved by: P. BEAUBIEN approuve par

PWSC Project Manager: Administrateur de Projets TPSGC

scale: AS NOTED eschelle  
 project no: R.014522.001 projet no.  
 date: APRIL 17, 2013 date

sheet: E03 OF 17 feuille



- KEYNOTES**
- 1 REMOVE AND BLANK OFF.
  - 2 SURFACE INSTALLATION.
  - 3 RECESSED INSTALLATION.
  - 4 CHANGE FROM BELL TO HORN
  - 5 NOT USED
  - 6 CHANGE FROM HEAT DETECTOR TO SMOKE DETECTOR.
  - 7 NOT USED
  - 8 CHANGE HORN TO SURFACE 100mm WALL HORN/STROBE
  - 9 ADD GUARD COVER
  - 10 FIRE ALARM BACKBONE
  - 11 FOR FUTURE CELL SPRINKLER TAMPER SWITCHES. DO NOT LOCATE IN SERVICE SHAFT BUT INSTALL 2 PAIR FROM EACH MONITORING ELEMENT TO FUTURE TAMPER SWITCH LOCATION

**KEY PLAN**  
N.T.S.

**RECORD DRAWING**  
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NO.	DESCRIPTION	DATE
9	ISSUED FOR RECORD DRAWING	13/06/12
8	E01 SITE PLAN ISSUED FOR RECORD DRAWING	12/10/18
7	ISSUED FOR CONSTRUCTION	09/06/01
6	ADDENDUM E1	09/03/18
5	ISSUED FOR TENDER	09/02/03
4	ISSUED FOR 100% TENDER	09/01/02
3	ISSUED FOR 99% REVIEW	08/10/13
2	ISSUED FOR 50% RE-SUBMISSION	08/09/10
1	ISSUED FOR 50% REVIEW	08/04/11

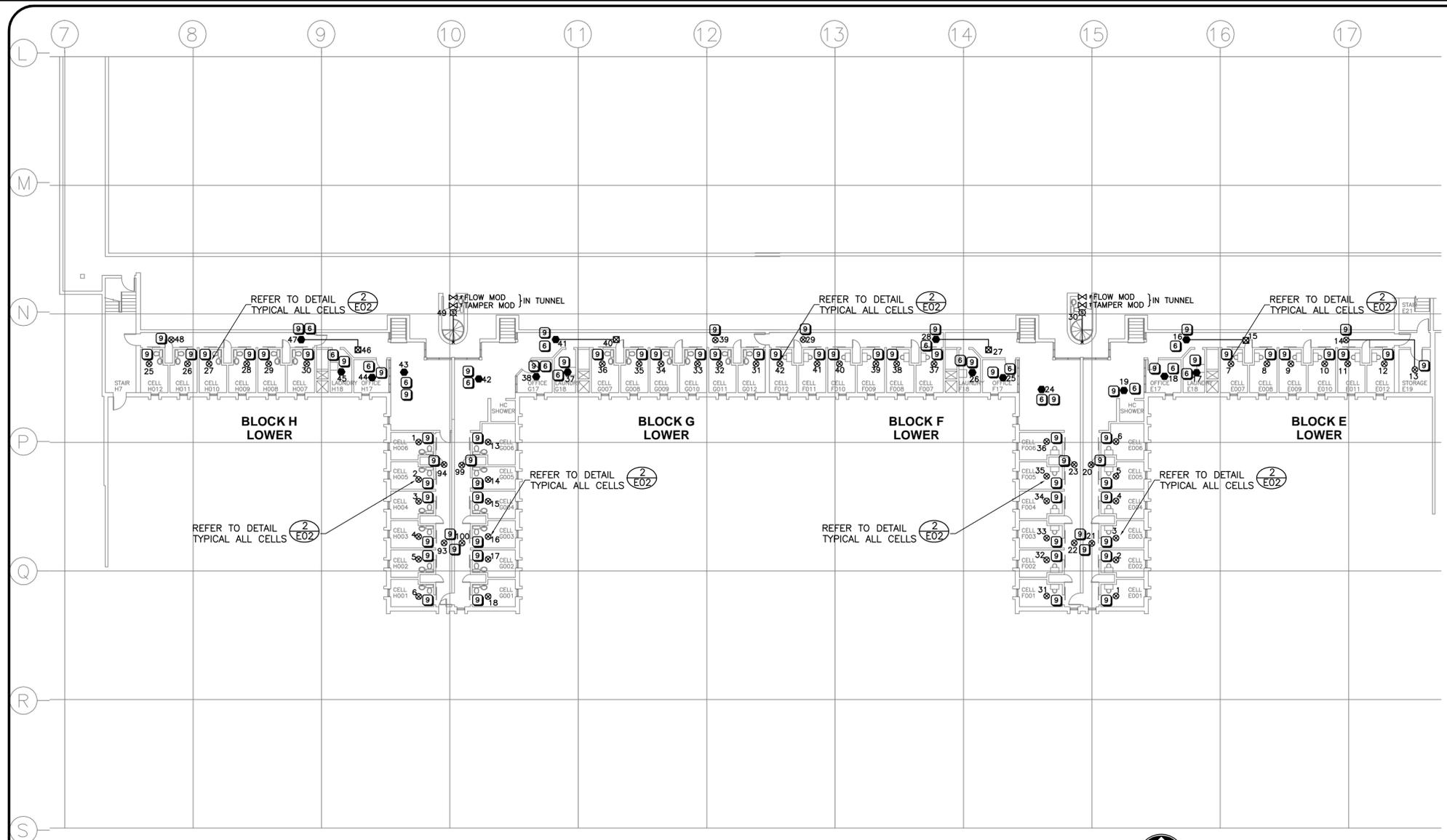
REVISIONS	DESCRIPTION	DATE
A	A detail number number du detail	
B	B source drawing no. de dessin no.	
C	C detail on drawing no. detail sur dessin no.	

project title: **EDMONTON MAXIMUM SECURITY INSTITUTION** titre du projet  
**FIRE ALARM UPGRADE**

drawing title: **PARTIAL LOWER FLOOR PLAN MAIN BUILDING BLOCKS H/G/F & E** titre du dessin

designed by: **P. BEAUBIEN** concu par  
 drawn by: **L. HONDERD** dessine par  
 approved by: **P. BEAUBIEN** approuve par  
 PWGSC Project Manager: **Administrateur de Projets TPSGC**

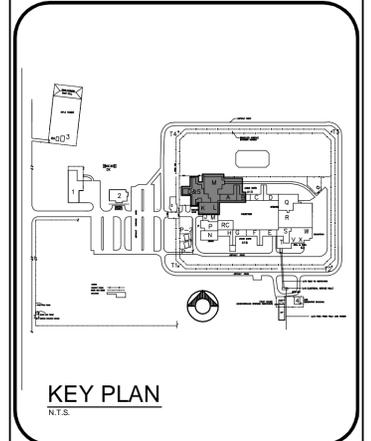
scale: **AS NOTED** echelle  
 project no.: **R.014522.001** projet no. **E04**  
 date: **APRIL 17, 2013** date **OF 17**



**ALL SPRINKLERED  
ALL CONTAINED  
USE AREA**

**PARTIAL LOWER FLOOR PLAN - FIRE ALARM**  
SCALE 1:200

- KEYNOTES**
- 1 REMOVE AND BLANK OFF.
  - 2 SURFACE INSTALLATION.
  - 3 RECESSED INSTALLATION.
  - 4 CHANGE FROM BELL TO HORN
  - 5 NOT USED
  - 6 CHANGE FROM HEAT DETECTOR TO SMOKE DETECTOR.
  - 7 NOT USED
  - 8 CHANGE HORN TO SURFACE 100mm WALL HORN/STROBE
  - 9 ADD GUARD COVER
  - 10 FIRE ALARM BACKBONE
  - 11 FOR FUTURE CELL SPRINKLER TAMPER SWITCHES. DO NOT LOCATE IN SERVICE SHAFT BUT INSTALL 2 PAIR FROM EACH MONITORING ELEMENT TO FUTURE TAMPER SWITCH LOCATION



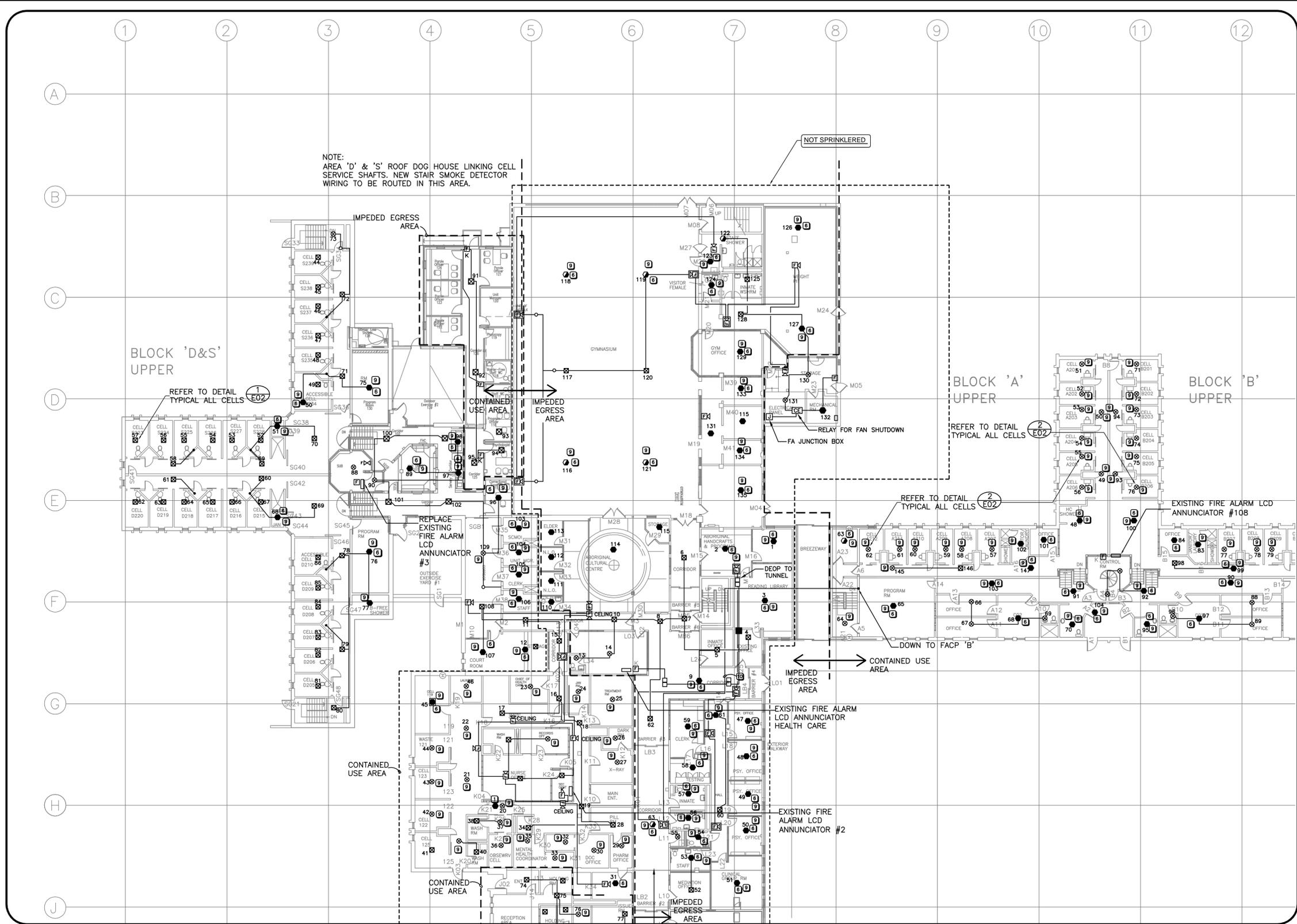
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7	ISSUED FOR CONSTRUCTION	09/06/01
6	ADDENDUM E1	09/03/18
5	ISSUED FOR TENDER	09/02/03
4	ISSUED FOR 100% TENDER	09/01/02
3	ISSUED FOR 99% REVIEW	08/10/13
2	ISSUED FOR 50% RE-SUBMISSION	08/09/10
1	ISSUED FOR 50% REVIEW	08/04/11

A detail number number du detail  
 B source drawing no. de dessin no.  
 C detail on drawing no. detail sur dessin no.

project title: **EDMONTON MAXIMUM SECURITY INSTITUTE FIRE ALARM UPGRADE** titre du projet  
 drawing title: **PARTIAL UPPER FLOOR PLAN MAIN BUILDING BLOCKS A/B/D/M/K/L & S** titre du dessin

designed by: P. BEAUBIEN concu par  
 drawn by: L. HONDERD dessine par  
 approved by: P. BEAUBIEN approuve par  
 PWSC Project Manager: Administrateur de Projets TPSGC  
 scale: AS NOTED eschelle sheet: feuille  
 project no.: R.014522.001 projet no.: **E05**  
 date: APRIL 17, 2013 date: OF 17



NOTE:  
 AREA 'D' & 'S' ROOF DOG HOUSE LINKING CELL SERVICE SHAFTS. NEW STAIR SMOKE DETECTOR WIRING TO BE ROUTED IN THIS AREA.

NOT SPRINKLERED

BLOCK 'D&S' UPPER

BLOCK 'A' UPPER

BLOCK 'B' UPPER

REFER TO DETAIL TYPICAL ALL CELLS

REFER TO DETAIL TYPICAL ALL CELLS

EXISTING FIRE ALARM LCD ANNUNCIATOR #108

REPLACE EXISTING FIRE ALARM LCD ANNUNCIATOR #3

REFER TO DETAIL TYPICAL ALL CELLS

EXISTING FIRE ALARM LCD ANNUNCIATOR HEALTH CARE

EXISTING FIRE ALARM LCD ANNUNCIATOR #2

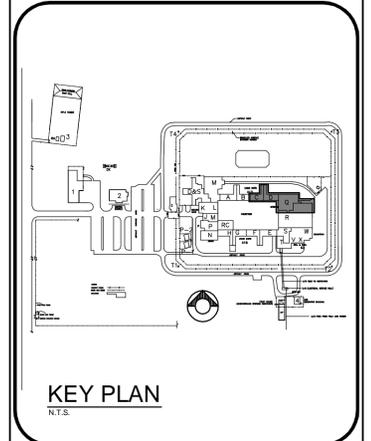
FOR CONTINUATION SEE DRAWING E07

PARTIAL MAIN & UPPER FLOOR PLAN - FIRE ALARM  
 SCALE 1:200

**KEYNOTES**

1 REMOVE AND BLANK OFF.	6 CHANGE FROM HEAT DETECTOR TO SMOKE DETECTOR.
2 SURFACE INSTALLATION.	7 CHANGE FROM SMOKE DETECTOR TO HEAT DETECTOR.
3 RECESSED INSTALLATION.	8 CHANGE HORN TO SURFACE 100mm WALL HORN/STROBE
4 CHANGE FROM BELL TO HORN	9 ADD GUARD COVER
5 NOT USED	10 FIRE ALARM BACKBONE
	11 FOR FUTURE CELL SPRINKLER TAMPER SWITCHES. DO NOT LOCATE IN SERVICE SHAFT BUT INSTALL 2 PAIR FROM EACH MONITORING ELEMENT TO FUTURE TAMPER SWITCH LOCATION

**ALL SPRINKLERED EXCEPT AS NOTED  
 ALL CONTAINED USE AREA**



**RECORD DRAWING**  
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8	E01 SITE PLAN ISSUED FOR RECORD DRAWING	12/10/18
7	ISSUED FOR CONSTRUCTION	09/06/01
6	ADDENDUM E1	09/03/18
5	ISSUED FOR TENDER	09/02/03
4	ISSUED FOR 100% TENDER	09/01/02
3	ISSUED FOR 99% REVIEW	08/10/13
2	ISSUED FOR 50% RE-SUBMISSION	08/09/10
1	ISSUED FOR 50% REVIEW	08/04/11

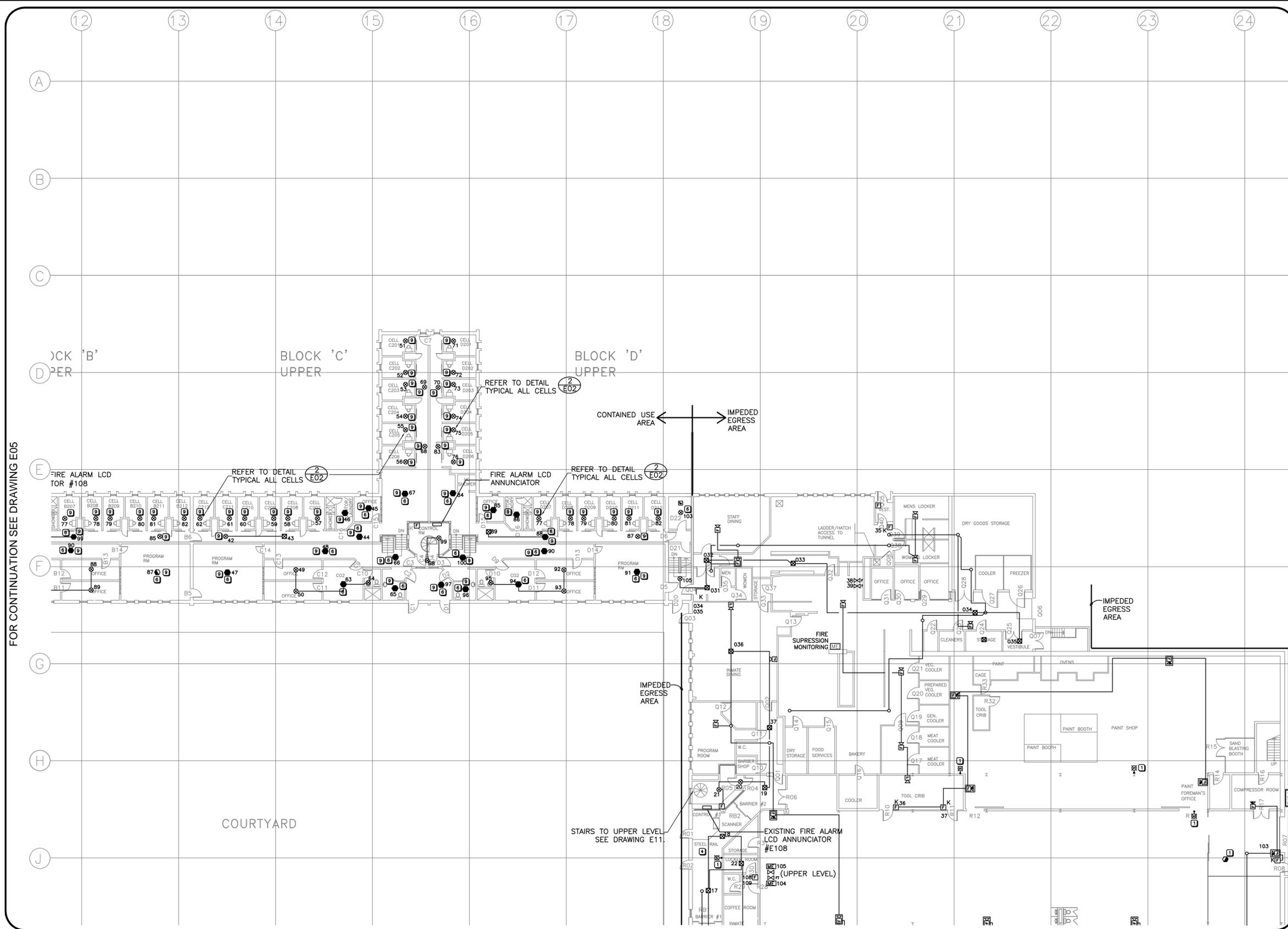
A	detail number number du detail	A
B	source drawing no. de dessin no.	B/C
C	detail on drawing no. detail sur dessin no.	

project title  
**EDMONTON MAXIMUM SECURITY INSTITUTE**  
titre du projet

**FIRE ALARM UPGRADE**

drawing title  
**PARTIAL MAIN FLOOR PLAN  
MAIN BUILDING  
BLOCKS C/D & Q**  
titre du dessin

designed by	P. BEAUBIEN	conçu par
drawn by	L. HONDERD	dessiné par
approved by	P. BEAUBIEN	approuvé par
PWCS Project Manager	Administrateur de Projets TPSGC	
scale	AS NOTED	échelle
project no.	R.014522.001	projet no.
date	APRIL 17, 2013	date
		sheet
		feuille
		<b>E06</b>
		OF 17



FOR CONTINUATION SEE DRAWING E05

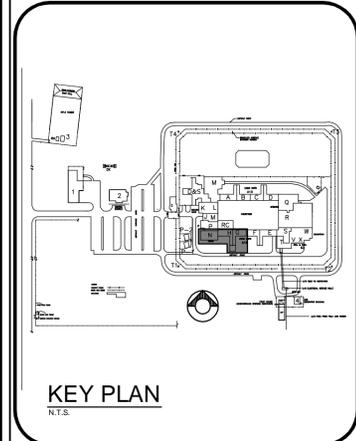
FOR CONTINUATION SEE DRAWING E08

**PARTIAL MAIN & UPPER FLOOR PLAN - FIRE ALARM**  
SCALE 1:200

**KEYNOTES**

1	REMOVE AND BLANK OFF.	6	CHANGE FROM HEAT DETECTOR TO SMOKE DETECTOR.
2	SURFACE INSTALLATION.	7	CHANGE FROM SMOKE DETECTOR TO HEAT DETECTOR.
3	RECESSED INSTALLATION.	8	CHANGE HORN TO SURFACE 100mm WALL HORN/STROBE
4	CHANGE FROM BELL TO HORN	9	ADD GUARD COVER
5	NOT USED	10	FIRE ALARM BACKBONE
		11	FOR FUTURE CELL SPRINKLER TAMPER SWITCHES. DO NOT LOCATE IN SERVICE SHAFT BUT INSTALL 2 PAIR FROM EACH MONITORING ELEMENT TO FUTURE TAMPER SWITCH LOCATION

**ALL SPRINKLERED**



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8	E01 SITE PLAN ISSUED FOR RECORD DRAWING	12/10/18
7	ISSUED FOR CONSTRUCTION	09/06/01
6	ADDENDUM E1	09/03/18
5	ISSUED FOR TENDER	09/02/03
4	ISSUED FOR 100% TENDER	09/01/02
3	ISSUED FOR 99% REVIEW	08/10/13
2	ISSUED FOR 50% RE-SUBMISSION	08/09/10
1	ISSUED FOR 50% REVIEW	08/04/11

A detail number / number du detail  
 B source drawing no. / de dessin no.  
 C detail on drawing no. / detail sur dessin no.

project title / titre du projet  
**EDMONTON MAXIMUM SECURITY INSTITUTE**  
**FIRE ALARM UPGRADE**

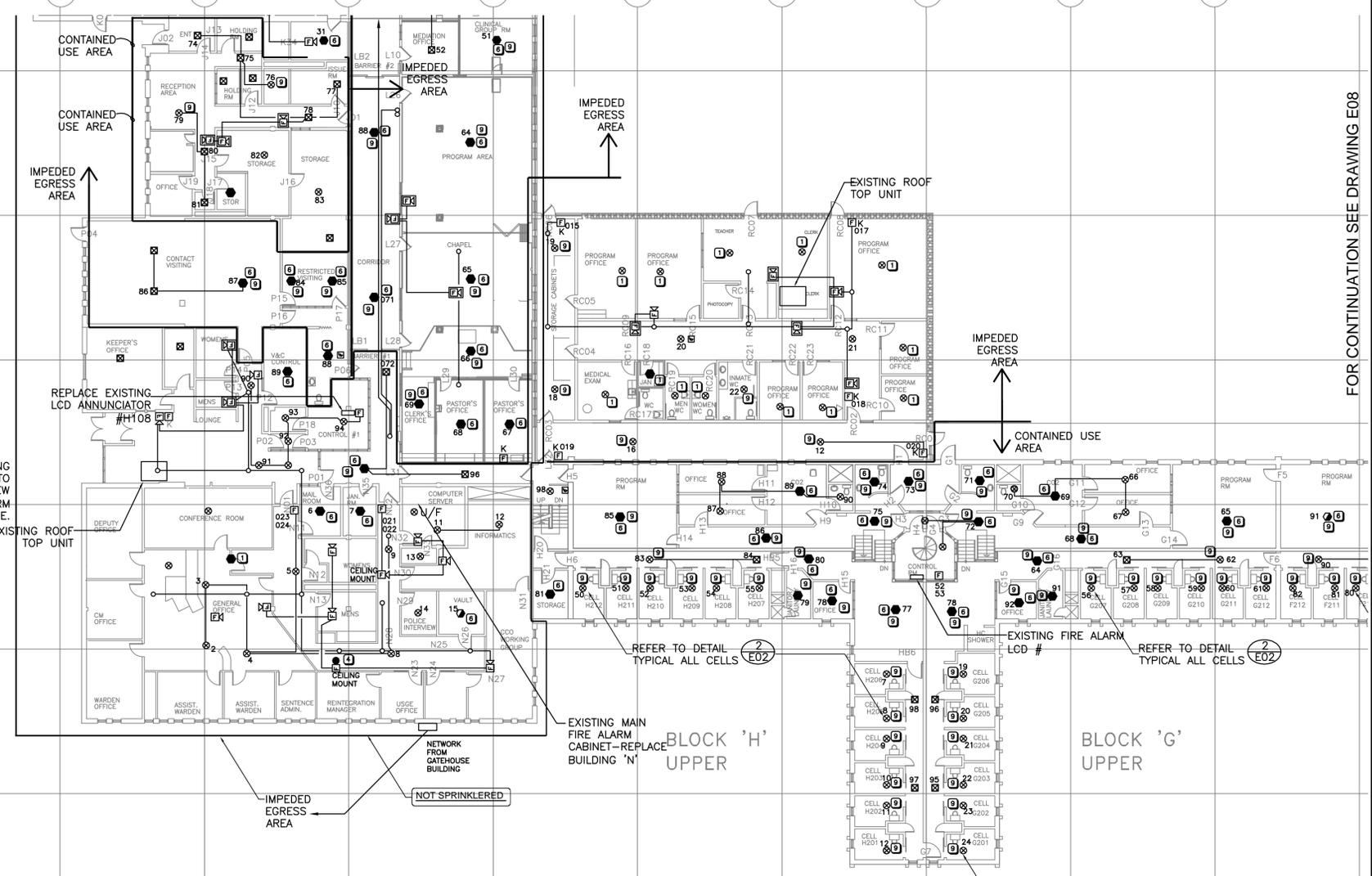
drawing title / titre du dessin  
**PARTIAL UPPER FLOOR PLAN MAIN BUILDING BLOCKS J/M/P/N/R/C/H & G**

designed by / conçu par: P. BEAUBIEN  
 drawn by / dessiné par: L. HONDERD  
 approved by / approuvé par: P. BEAUBIEN  
 PWGSC Project Manager / Administrateur de Projets TPSGC  
 scale / échelle: AS NOTED  
 project no. / projet no.: R.014522.001  
 date / date: APRIL 17, 2013  
 sheet / feuille: E07 OF 17

FOR CONTINUATION SEE DRAWING E05

FOR CONTINUATION SEE DRAWING E08

EXISTING UNDER-GROUND TO GATEHOUSE FOR NEW CLASS 'A' FIRE ALARM FIRE RATED BACKBONE.



**KEYNOTES**

- 1 REMOVE AND BLANK OFF.
- 2 SURFACE INSTALLATION.
- 3 RECESSED INSTALLATION.
- 4 CHANGE FROM BELL TO HORN
- 5 NOT USED
- 6 CHANGE FROM HEAT DETECTOR TO SMOKE DETECTOR.
- 7 CHANGE FROM SMOKE DETECTOR TO HEAT DETECTOR.
- 8 CHANGE HORN TO SURFACE 100mm WALL HORN/STROBE
- 9 ADD GUARD COVER
- 10 FIRE ALARM BACKBONE
- 11 FOR FUTURE CELL SPRINKLER TAMPER SWITCHES. DO NOT LOCATE IN SERVICE SHAFT BUT INSTALL 2 PAIR FROM EACH MONITORING ELEMENT TO FUTURE TAMPER SWITCH LOCATION

**ALL SPRINKLERED EXCEPT AS NOTED**  
**ALL CONTAINED USE AREA EXCEPT AS NOTED**

**PARTIAL MAIN & UPPER FLOOR PLAN - FIRE ALARM**  
 SCALE 1:200

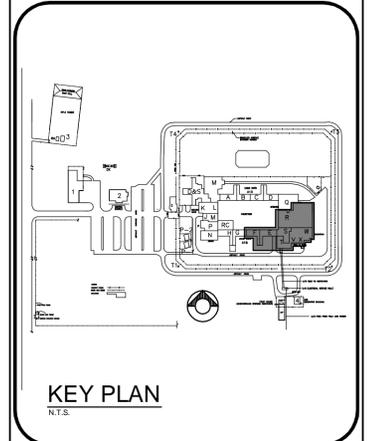
FOR CONTINUATION SEE DRAWING E06

REAL PROPERTY SERVICES  
Western Region

CORRECTIONAL SERVICE CANADA

Client

**beaubien glover maskell engineering**  
 Suite 400 - 4444 - 42 Avenue  
 Edmonton, Alberta, T6E 0V6  
 Tel: 780-429-2266 Fax: 780-429-4466  
 Job #5783



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5	ISSUED FOR TENDER	09/02/03
4	ISSUED FOR 100% TENDER	09/01/02
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1	ISSUED FOR 50% REVIEW	08/04/11

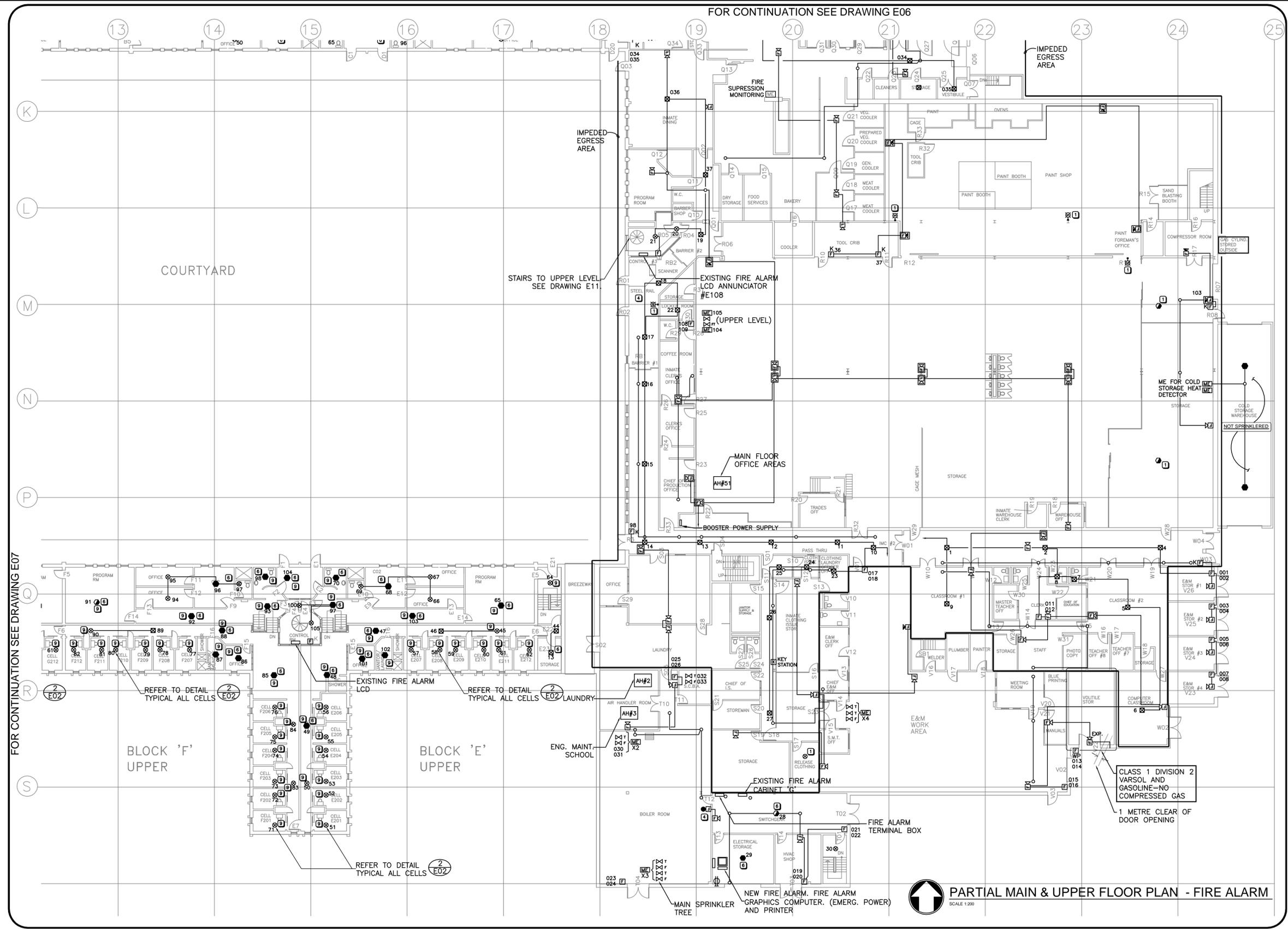
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B	source drawing no.	B
C	de dessin no.	C
	C detail on drawing no.	
	detail sur dessin no.	

EDMONTON MAXIMUM SECURITY INSTITUTE  
FIRE ALARM UPGRADE

PARTIAL MAIN FLOOR PLAN MAIN BUILDING BLOCKS R/S/T/V/X/W/E & F

designed by	P. BEAUBIEN	conçu par	
drawn by	L. HONDERD	dessiné par	
approved by	P. BEAUBIEN	approuvé par	
PWCS Project Manager	Administrateur de Projets TPSGC		
scale	AS NOTED	échelle	feuille
project no.	R.014522.001	proj. no.	E08
date	APRIL 17, 2013	date	OF 17

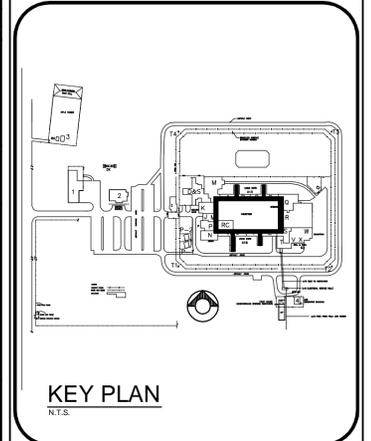
FOR CONTINUATION SEE DRAWING E07



- KEYNOTES**
- 1 REMOVE AND BLANK OFF.
  - 2 SURFACE INSTALLATION.
  - 3 RECESSED INSTALLATION.
  - 4 CHANGE FROM BELL TO HORN
  - 5 NOT USED
  - 6 CHANGE FROM HEAT DETECTOR TO SMOKE DETECTOR.
  - 7 CHANGE FROM SMOKE DETECTOR TO HEAT DETECTOR.
  - 8 CHANGE HORN TO SURFACE 100mm WALL HORN/STROBE
  - 9 ADD GUARD COVER
  - 10 FIRE ALARM BACKBONE
  - 11 FOR FUTURE CELL SPRINKLER TAMPER SWITCHES. DO NOT LOCATE IN SERVICE SHAFT BUT INSTALL 2 PAIR FROM EACH MONITORING ELEMENT TO FUTURE TAMPER SWITCH LOCATION

**ALL SPRINKLERED  
ALL CONTAINED USE AREA EXCEPT  
'E' & 'M' WORK AREA  
BLOCK 'T'**

PARTIAL MAIN & UPPER FLOOR PLAN - FIRE ALARM  
SCALE 1:200



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REVISIONS	DESCRIPTION	DATE
9	ISSUED FOR RECORD DRAWING	13/06/12
8	E01 985/REAR/ISSUED FOR RECORD DRAWING	12/08/28
7	ISSUED FOR CONSTRUCTION	09/06/01
6	ADDENDUM E1	09/03/18
5	ISSUED FOR TENDER	09/02/03
4	ISSUED FOR 100% TENDER	09/01/02
3	ISSUED FOR 99% REVIEW	08/10/13
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1	ISSUED FOR 50% REVIEW	08/04/11

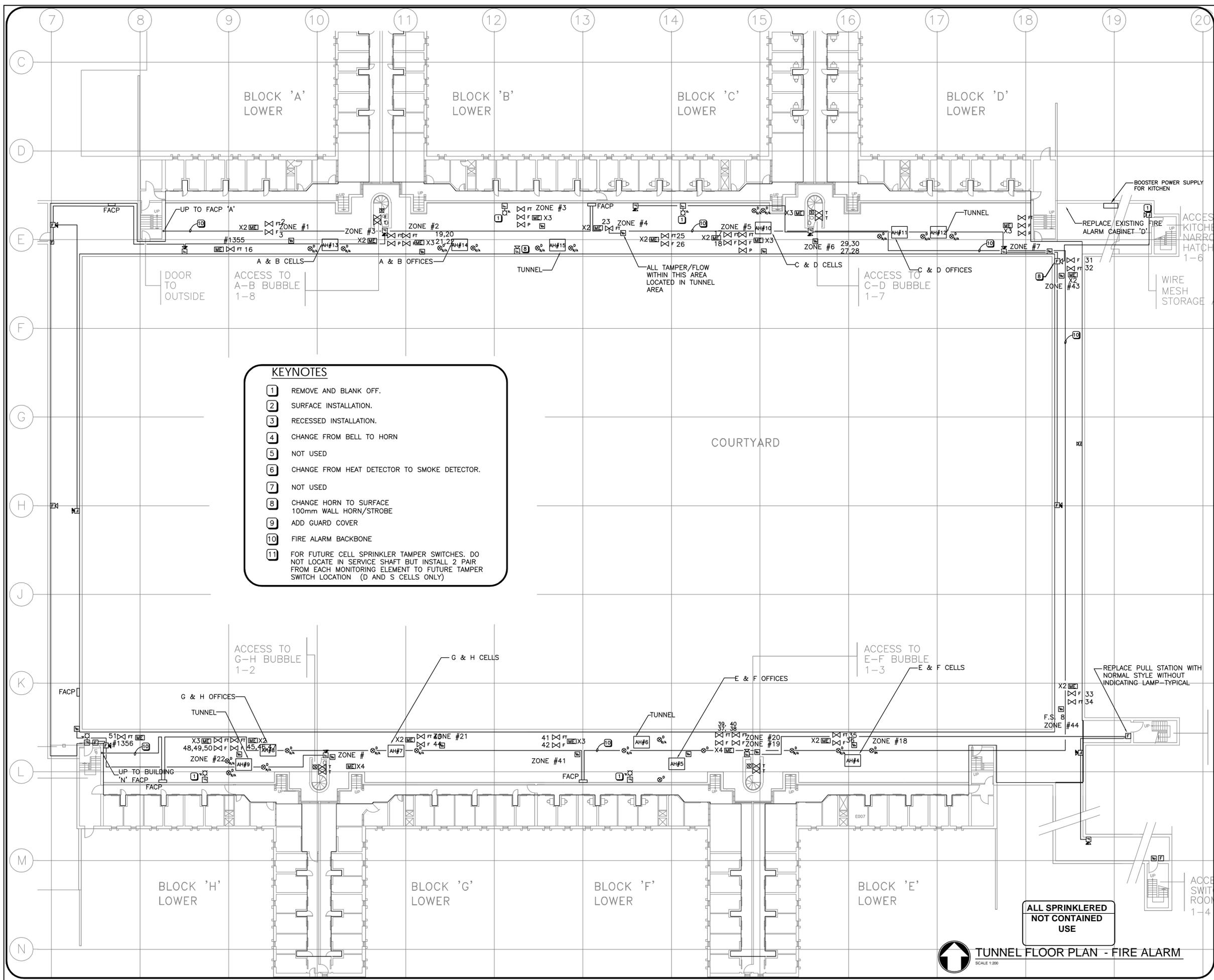
A	A detail number number du detail	A
B	B source drawing no. de dessin no.	B
C	C detail on drawing no. detail sur dessin no.	C

project title: **EDMONTON MAXIMUM SECURITY INSTITUTE FIRE ALARM UPGRADE** / titre du projet

drawing title: **TUNNEL PLAN FOR MAIN BUILDING** / titre du dessin

designed by: P. BEAUBIEN / conçu par  
 drawn by: L. HONDERD / dessiné par  
 approved by: P. BEAUBIEN / approuvé par

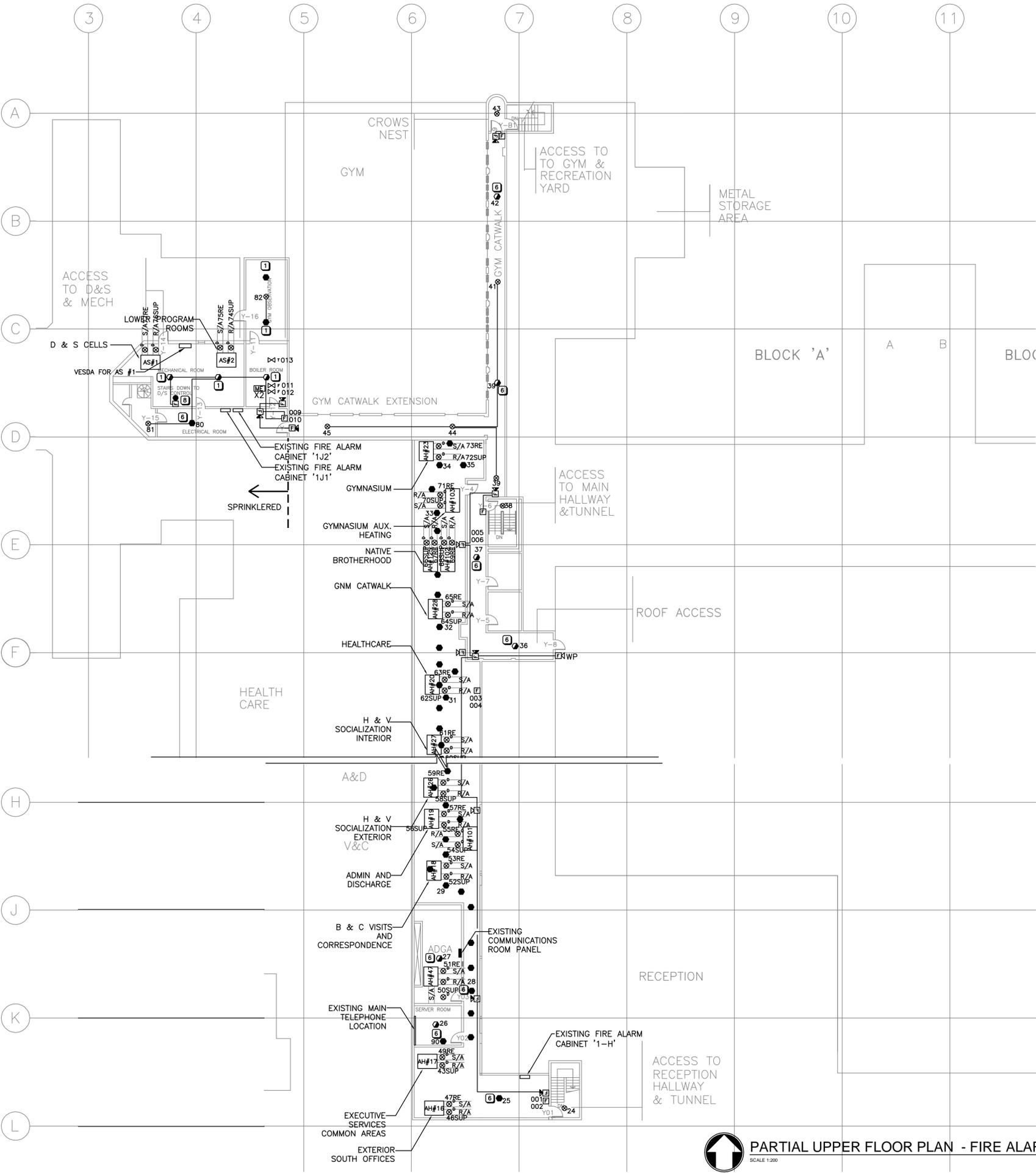
PWSC Project Manager / Administrateur de Projets TPSGC  
 scale: AS NOTED / échelle  
 project no: R.014522.001 / projet no: E09  
 date: APRIL 17, 2013 / date: OF 17



- KEYNOTES**
- 1 REMOVE AND BLANK OFF.
  - 2 SURFACE INSTALLATION.
  - 3 RECESSED INSTALLATION.
  - 4 CHANGE FROM BELL TO HORN
  - 5 NOT USED
  - 6 CHANGE FROM HEAT DETECTOR TO SMOKE DETECTOR.
  - 7 NOT USED
  - 8 CHANGE HORN TO SURFACE  
100mm WALL HORN/STROBE
  - 9 ADD GUARD COVER
  - 10 FIRE ALARM BACKBONE
  - 11 FOR FUTURE CELL SPRINKLER TAMPER SWITCHES. DO NOT LOCATE IN SERVICE SHAFT BUT INSTALL 2 PAIR FROM EACH MONITORING ELEMENT TO FUTURE TAMPER SWITCH LOCATION (D AND S CELLS ONLY)

ALL SPRINKLERED NOT CONTAINED USE

**TUNNEL FLOOR PLAN - FIRE ALARM**  
 SCALE 1:200



- KEYNOTES**
- 1 REMOVE AND BLANK OFF.
  - 2 SURFACE INSTALLATION.
  - 3 RECESSED INSTALLATION.
  - 4 CHANGE FROM BELL TO HORN
  - 5 NOT USED
  - 6 CHANGE FROM HEAT DETECTOR TO SMOKE DETECTOR.
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100mm WALL HORN/STROBE
  - 9 ADD GUARD COVER
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FOR CONTINUATION-SEE DRAWING E11

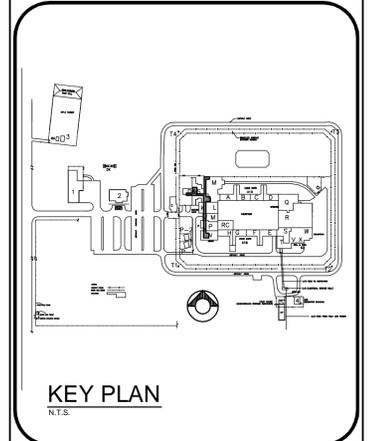
**PARTIAL UPPER FLOOR PLAN - FIRE ALARM**  
SCALE 1:200

**NOT  
SPRINKLERED  
NOT CONTAINED  
USE**

**REAL PROPERTY SERVICES**  
Western Region

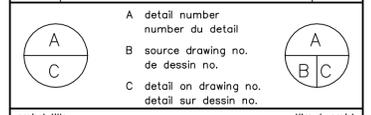
**CORRECTIONAL SERVICE CANADA**

**beaubien glover maskell engineering**  
Suite 400 - 444 - 42 Avenue  
Edmonton, Alberta, T6E 2V2  
Tel: 780-428-2266 Fax: 780-428-4466  
www.bgm.ca  
Job #5783



**RECORD DRAWING**  
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6	ADDENDUM E1	09/03/18
5	ISSUED FOR TENDER	09/02/03
4	ISSUED FOR 100% TENDER	09/01/02
3	ISSUED FOR 99% REVIEW	08/10/13
2	ISSUED FOR 50% RE-SUBMISSION	08/09/10
1	ISSUED FOR 50% REVIEW	08/04/11



project title: **EDMONTON MAXIMUM SECURITY INSTITUTE**  
titre du projet: **EDMONTON MAXIMUM SECURITY INSTITUTE**

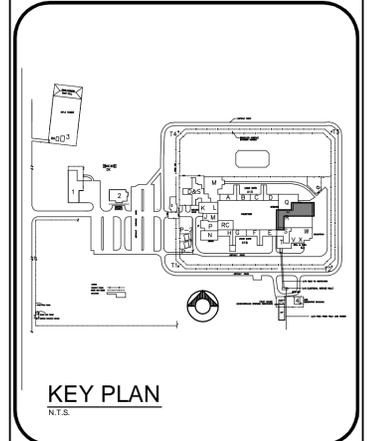
**FIRE ALARM UPGRADE**

drawing title: **PARTIAL UPPER FLOOR PLAN MAIN BUILDING**  
titre du dessin: **PARTIAL UPPER FLOOR PLAN MAIN BUILDING**

designed by: **P. BEAUBIEN** concu par  
drawn by: **L. HONDERD** dessine par  
approved by: **P. BEAUBIEN** approuve par

PWSC Project Manager: **Administrateur de Projets TPSGC**

scale: **AS NOTED** eschelle: sheet: **E10** feuille:  
project no.: **R.014522.001** projet no.: **OF 17**  
date: **APRIL 17, 2013** date:



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1	ISSUED FOR 50% REVIEW	08/04/11

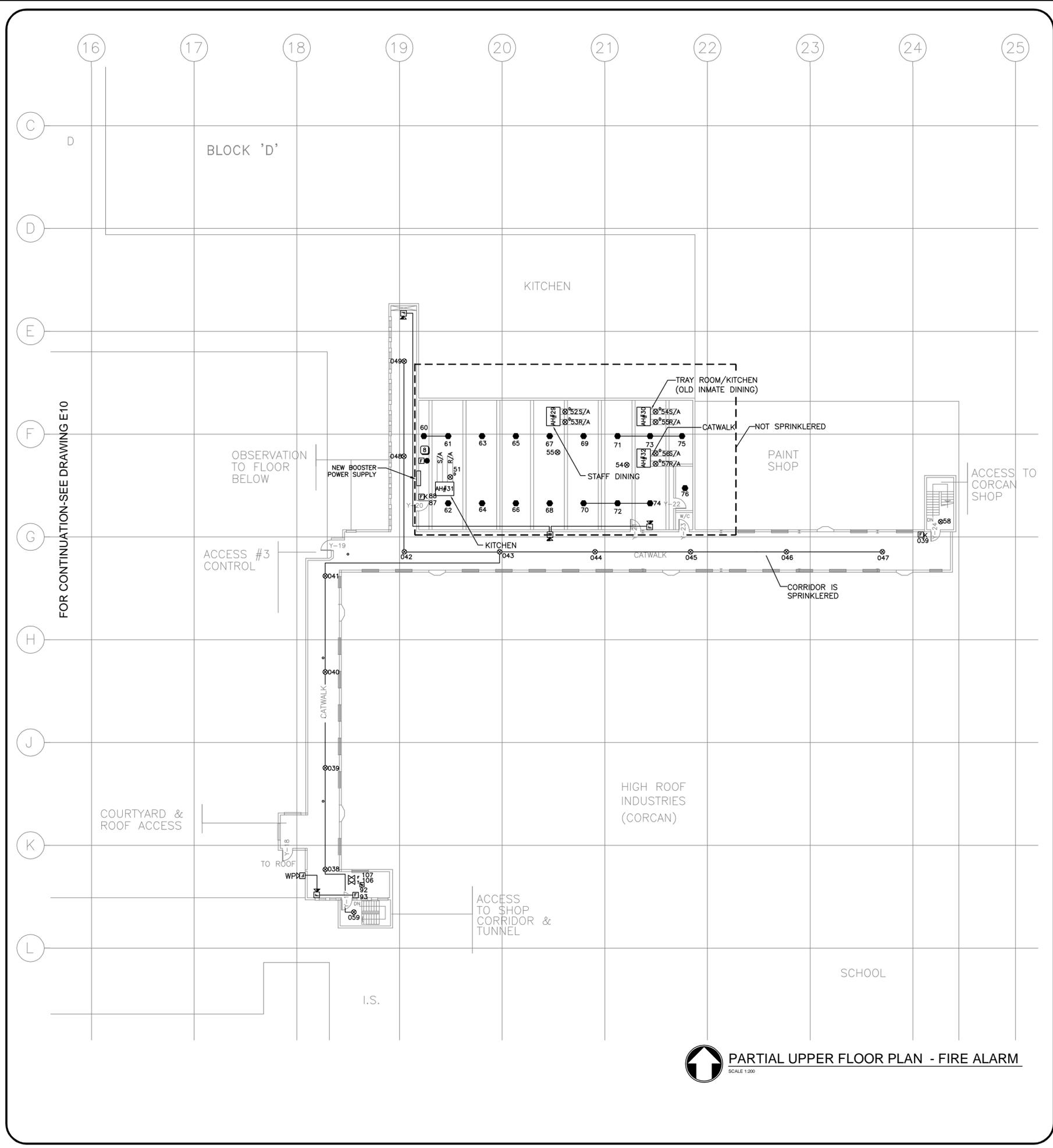
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B	B source drawing no. de dessin no.	B
C	C detail on drawing no. detail sur dessin no.	C

project title: **EDMONTON MAXIMUM SECURITY INSTITUTE** titre du projet  
**FIRE ALARM UPGRADE**

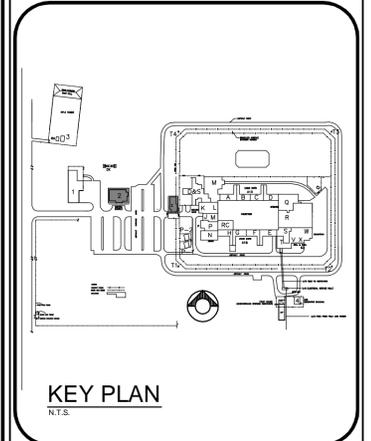
drawing title: **PARTIAL UPPER FLOOR PLAN MAIN BUILDING** titre du dessin

designed by	P. BEAUBIEN	conçu par
drawn by	L. HONDERD	dessiné par
approved by	P. BEAUBIEN	approuvé par
PWCS Project Manager	Administrateur de Projets TPSGC	
scale	AS NOTED	échelle
project no.	R.014522.001	projet no.
date	APRIL 17, 2013	date
sheet	E11	feuille
	OF 17	

- KEYNOTES**
- 1 REMOVE AND BLANK OFF.
  - 2 SURFACE INSTALLATION.
  - 3 RECESSED INSTALLATION.
  - 4 CHANGE FROM BELL TO HORN
  - 5 NOT USED
  - 6 CHANGE FROM HEAT DETECTOR TO SMOKE DETECTOR.
  - 7 NOT USED
  - 8 CHANGE HORN TO SURFACE 100mm WALL HORN/STROBE
  - 9 ADD GUARD COVER
  - 10 FIRE ALARM BACKBONE
  - 11 FOR FUTURE CELL SPRINKLER TAMPER SWITCHES. DO NOT LOCATE IN SERVICE SHAFT BUT INSTALL 2 PAIR FROM EACH MONITORING ELEMENT TO FUTURE TAMPER SWITCH LOCATION (D AND S CELLS ONLY)



**PARTIAL UPPER FLOOR PLAN - FIRE ALARM**  
 SCALE 1:200



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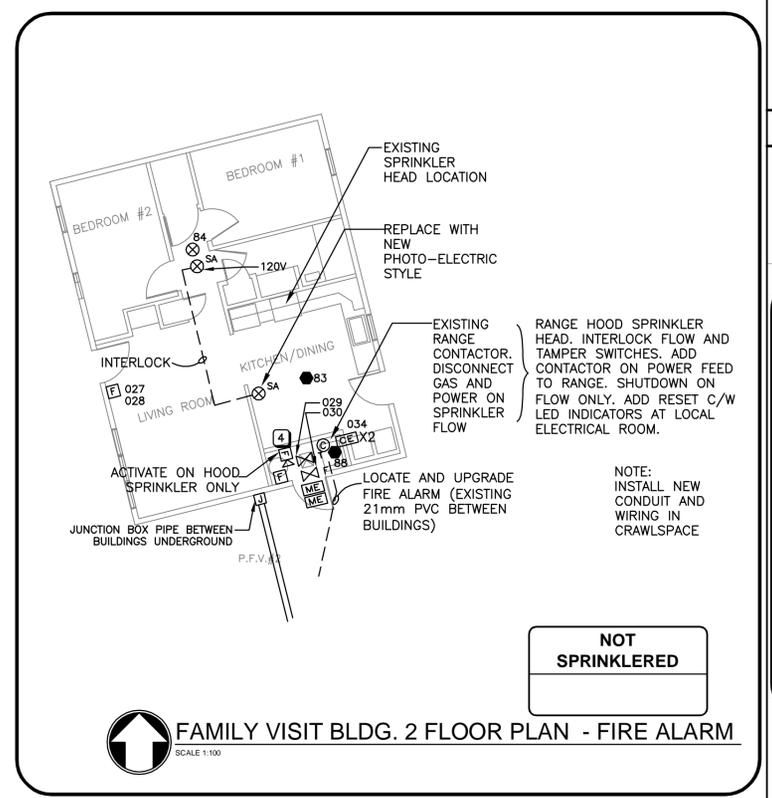
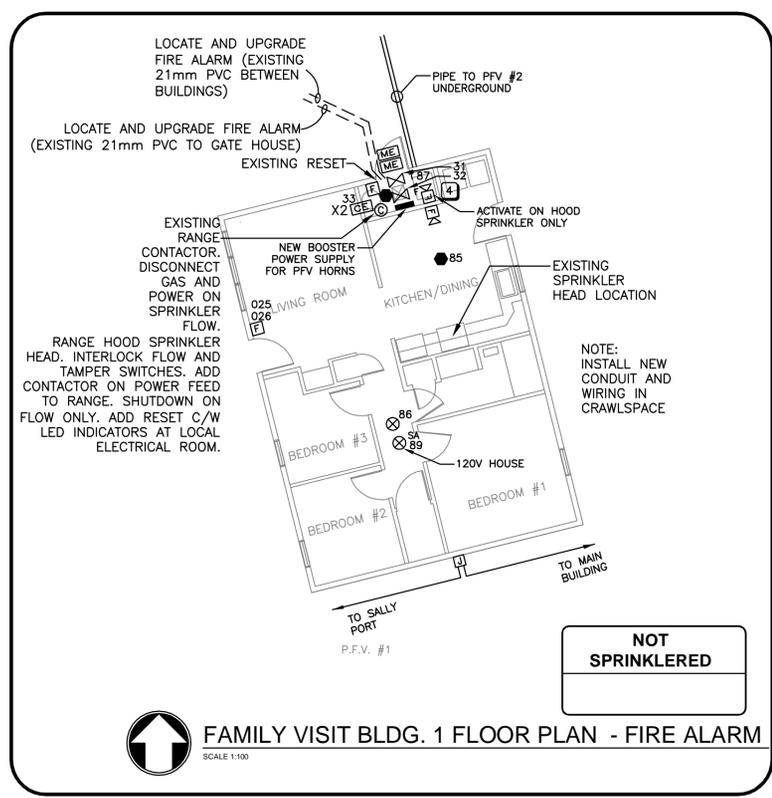
REVISIONS	DESCRIPTION	DATE
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1	ISSUED FOR 50% REVIEW	08/04/11

A	detail number	A
B	source drawing no.	B
C	de dessin no.	C
	detail sur dessin no.	

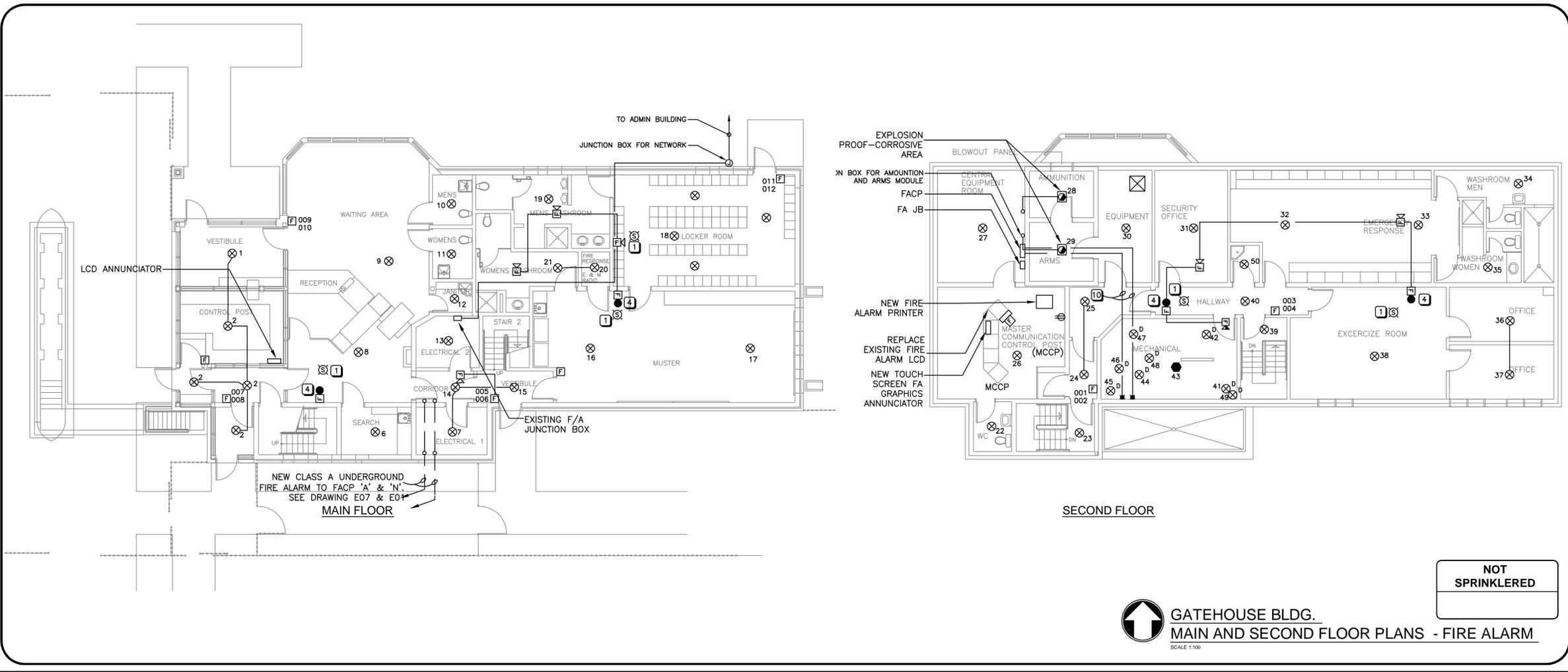
project title: **EDMONTON MAXIMUM SECURITY INSTITUTE FIRE ALARM UPGRADE**

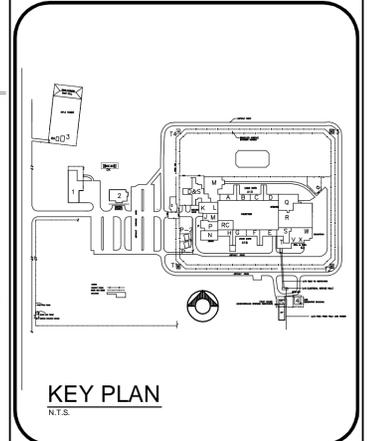
drawing title: **FAMILY VISIT BUILDING 1 AND 2 FIREARMS BUILDING GATEHOUSE BUILDING**

designed by	P. BEAUBIEN	conçu par	
drawn by	L. HONDERD	dessiné par	
approved by	P. BEAUBIEN	approuvé par	
PWOSC Project Manager		Administrateur de Projets TPSOC	
scale	AS NOTED	échelle	feuille
project no.	R.014522.001	proj. no.	<b>E12</b>
date	APRIL 17, 2013	date	OF 17



- KEYNOTES**
- REMOVE AND BLANK OFF.
  - SURFACE INSTALLATION.
  - RECESSED INSTALLATION.
  - CHANGE FROM BELL TO HORN
  - NOT USED
  - CHANGE FROM HEAT DETECTOR TO SMOKE DETECTOR.
  - NOT USED
  - CHANGE HORN TO SURFACE 100mm WALL HORN/STROBE
  - ADD GUARD COVER
  - FIRE ALARM BACKBONE
  - FOR FUTURE CELL SPRINKLER TAMPER SWITCHES. DO NOT LOCATE IN SERVICE SHAFT BUT INSTALL 2 PAIR FROM EACH MONITORING ELEMENT TO FUTURE TAMPER SWITCH LOCATION





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1	ISSUED FOR 50% REVIEW	08/04/11

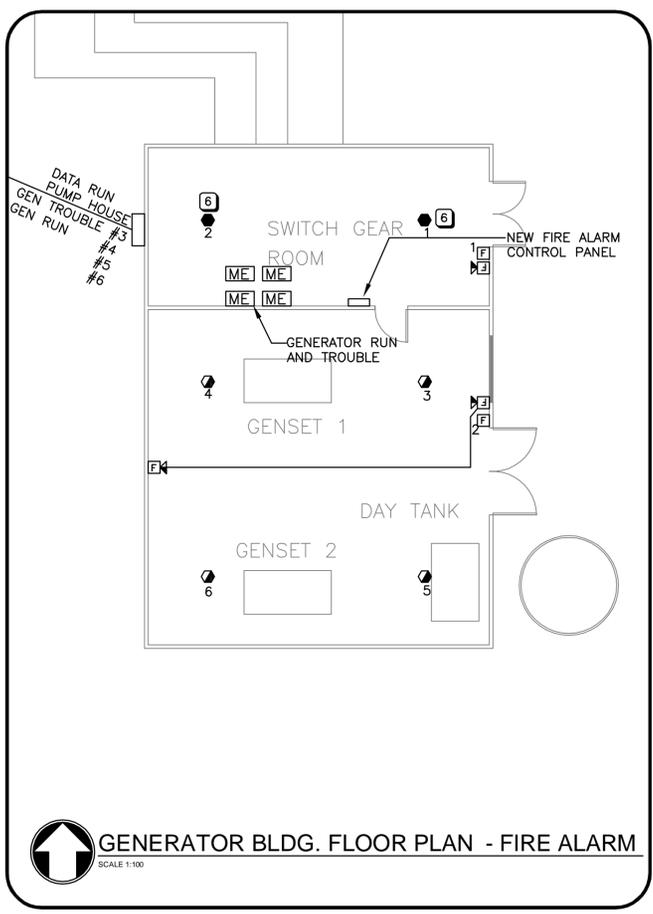
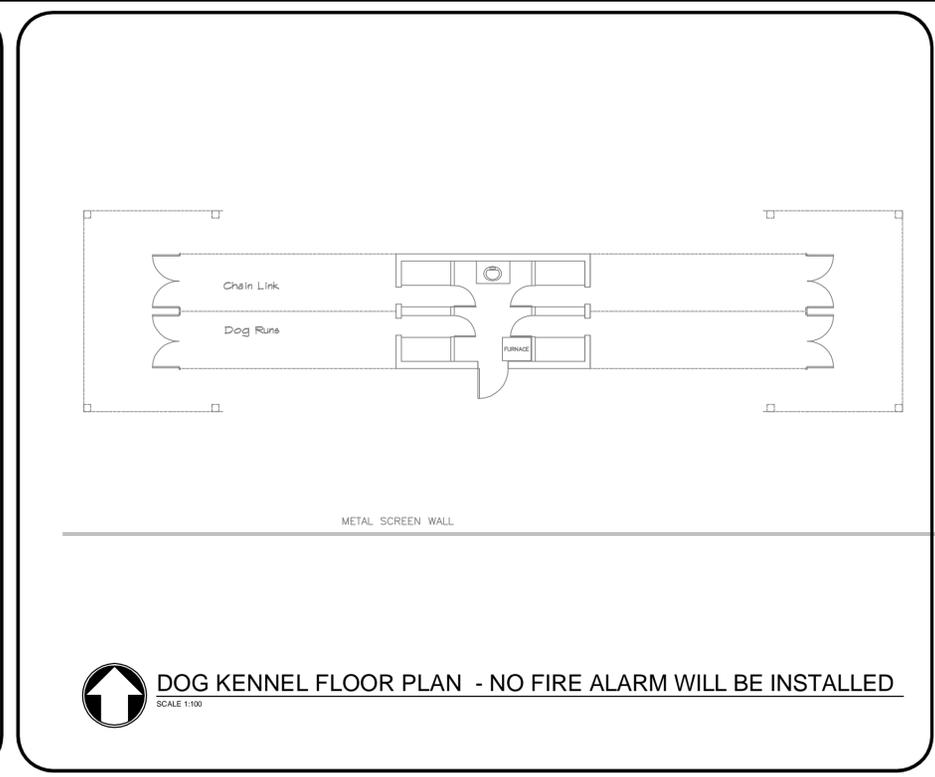
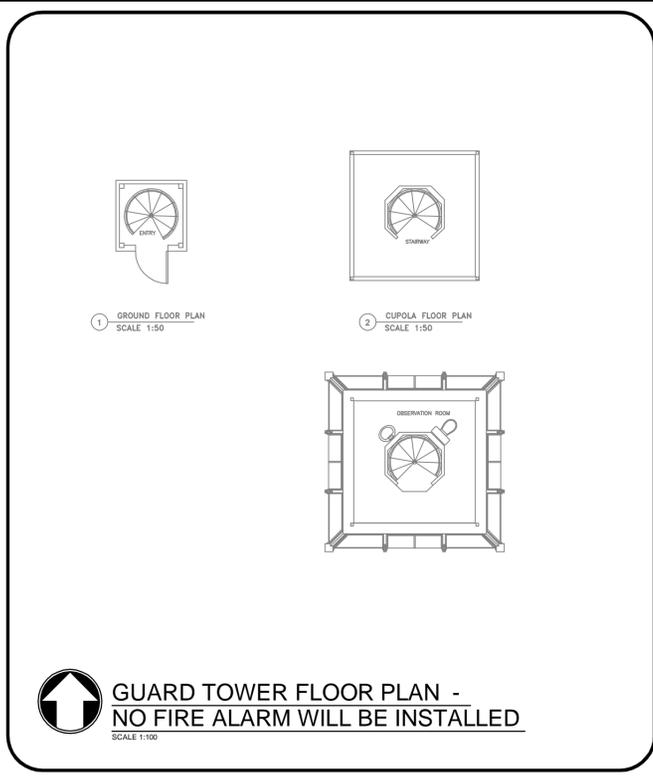
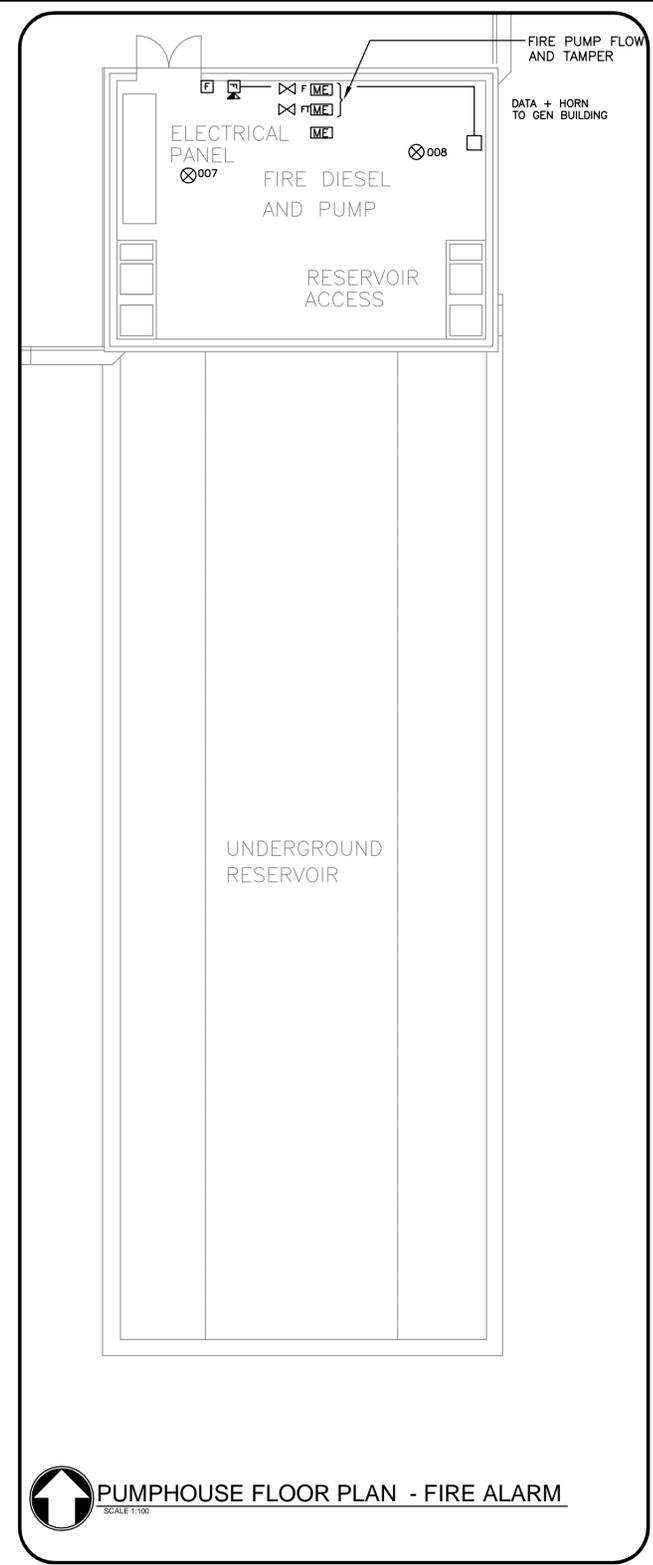
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B	number du detail	B
C	source drawing no.	C
	de dessin no.	
	C detail on drawing no.	
	detail sur dessin no.	

project title: **EDMONTON MAXIMUM SECURITY INSTITUTE** / titre du projet  
**FIRE ALARM UPGRADE**

drawing title: **PUMPHOUSE/ GENERATOR/ GUARD TOWERS/ DOG KENNEL BUILDINGS** / titre du dessin

designed by: **P. BEAUBIEN** / concu par  
 drawn by: **L. HONDERD** / dessine par  
 approved by: **P. BEAUBIEN** / approuve par  
 PWSC Project Manager / Administrateur de Projets TPSGC

scale: **AS NOTED** / echelle  
 project no.: **R.014522.001** / projet no.  
 date: **APRIL 17, 2013** / date  
**E13** / OF 17



- KEYNOTES**
- REMOVE AND BLANK OFF.
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  - RECESSED INSTALLATION.
  - CHANGE FROM BELL TO HORN
  - NOT USED
  - CHANGE FROM HEAT DETECTOR TO SMOKE DETECTOR.
  - NOT USED
  - CHANGE HORN TO SURFACE 100mm WALL HORN/STROBE
  - ADD GUARD COVER
  - FIRE ALARM BACKBONE
  - FOR FUTURE CELL SPRINKLER TAMPER SWITCHES, DO NOT LOCATE IN SERVICE SHAFT BUT INSTALL 2 PAIR FROM EACH MONITORING ELEMENT TO FUTURE TAMPER SWITCH LOCATION

**KEY PLAN**  
 N.T.S.

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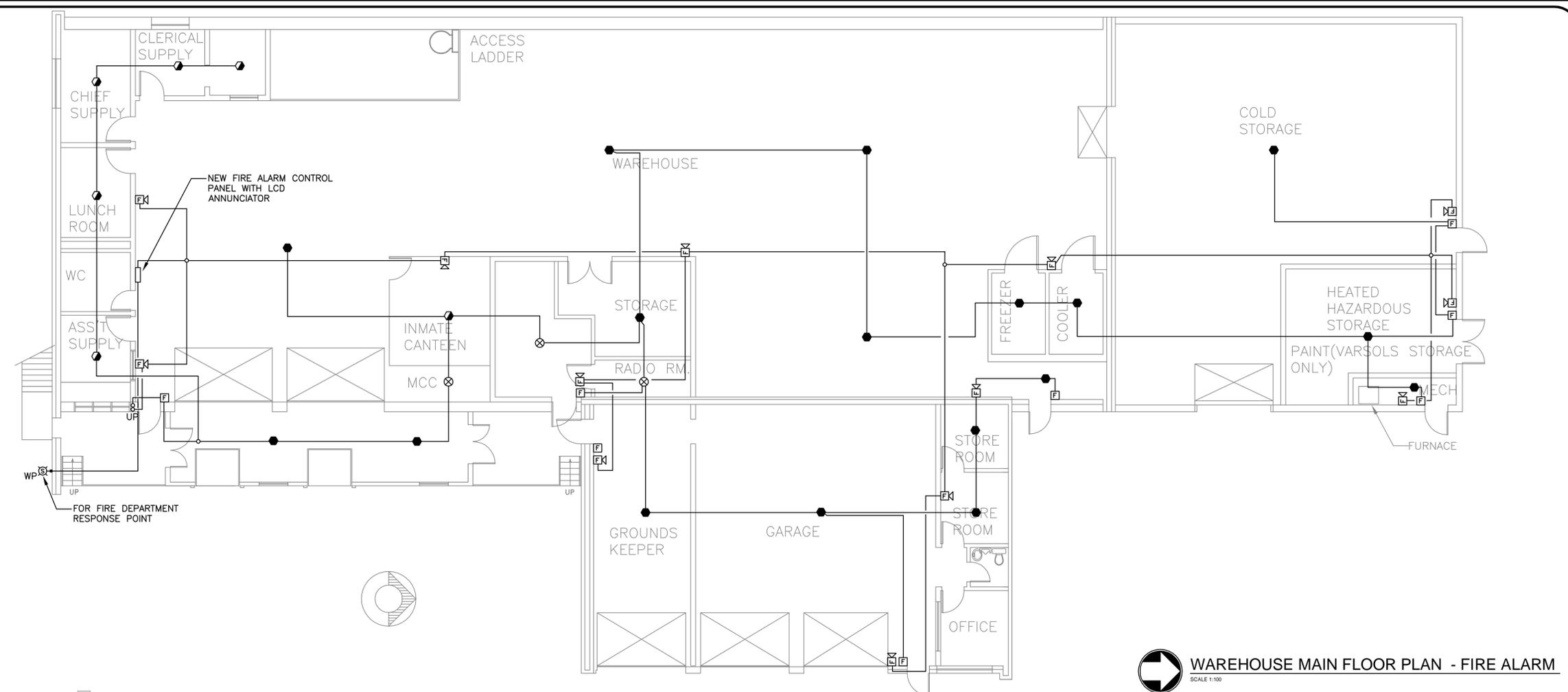
REVISIONS	DESCRIPTION	DATE
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A	B	C
A detail number number du detail	B source drawing no. de dessin no.	C detail on drawing no. detail sur dessin no.

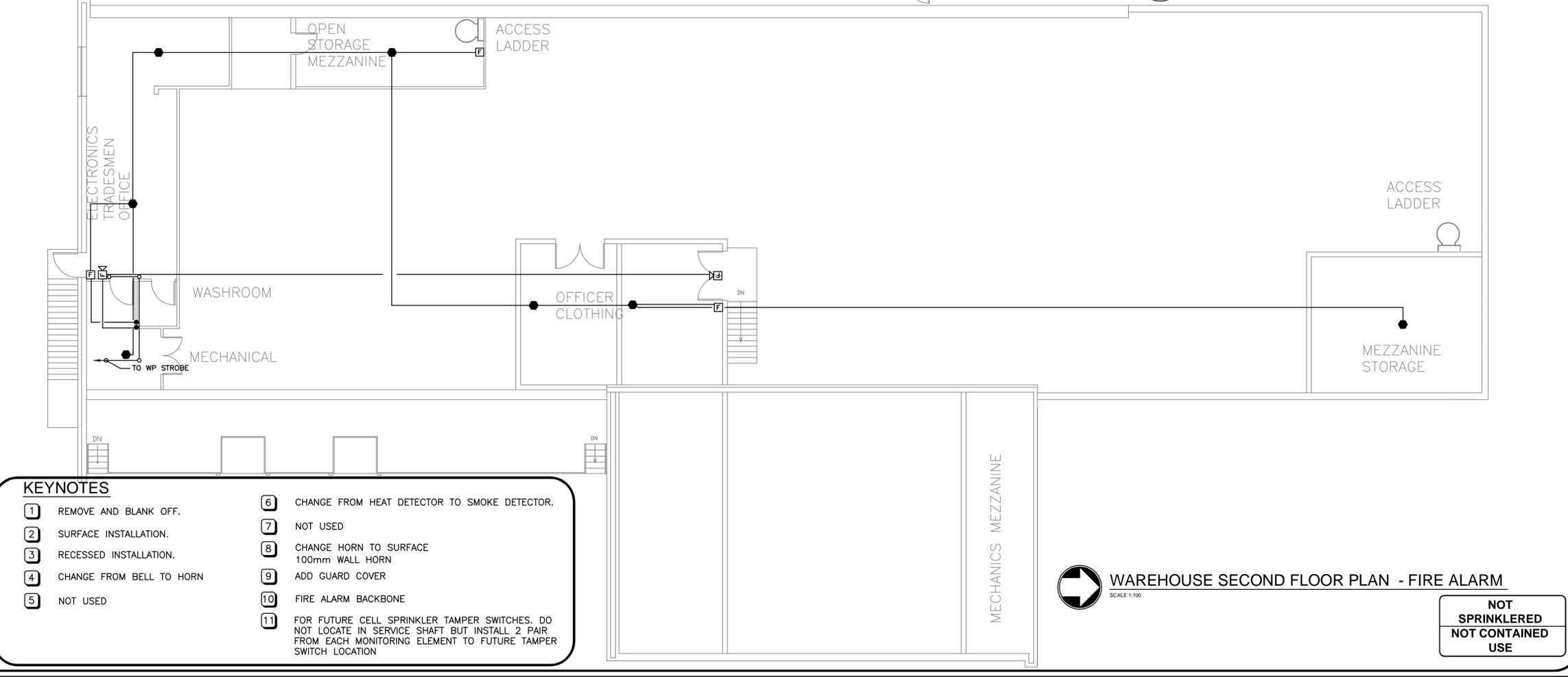
project title: **EDMONTON MAXIMUM SECURITY INSTITUTE FIRE ALARM UPGRADE**

drawing title: **WAREHOUSE BUILDING MAIN & MEZZANINE FLOORS**

designed by	P. BEAUBIEN	conçu par
drawn by	L. HONDERD	dessiné par
approved by	P. BEAUBIEN	approuvé par
PWSC Project Manager	Administrateur de Projets TPSGC	
scale	AS NOTED	échelle
project no.	R.014522.001	projet no.
date	APRIL 17, 2013	date
sheet	E14	feuille
	OF 17	



**WAREHOUSE MAIN FLOOR PLAN - FIRE ALARM**  
 SCALE 1:100



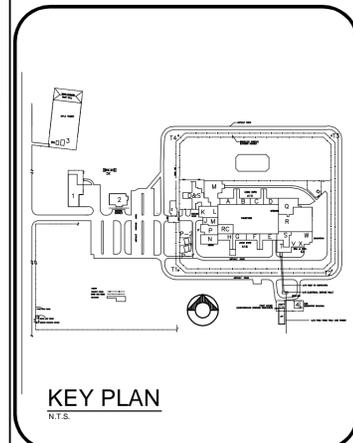
**WAREHOUSE SECOND FLOOR PLAN - FIRE ALARM**  
 SCALE 1:100

**NOT SPRINKLERED NOT CONTAINED USE**

- KEYNOTES**
- |                            |                                                                                                                                                               |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 REMOVE AND BLANK OFF.    | 6 CHANGE FROM HEAT DETECTOR TO SMOKE DETECTOR.                                                                                                                |
| 2 SURFACE INSTALLATION.    | 7 NOT USED                                                                                                                                                    |
| 3 RECESSED INSTALLATION.   | 8 CHANGE HORN TO SURFACE 100mm WALL HORN                                                                                                                      |
| 4 CHANGE FROM BELL TO HORN | 9 ADD GUARD COVER                                                                                                                                             |
| 5 NOT USED                 | 10 FIRE ALARM BACKBONE                                                                                                                                        |
|                            | 11 FOR FUTURE CELL SPRINKLER TAMPER SWITCHES. DO NOT LOCATE IN SERVICE SHAFT BUT INSTALL 2 PAIR FROM EACH MONITORING ELEMENT TO FUTURE TAMPER SWITCH LOCATION |



Job #5783



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3	ISSUED FOR 99% REVIEW	08/10/13
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1	ISSUED FOR 50% REVIEW	08/04/11

A C	A detail number number du detail	A B C
	B source drawing no. de dessin no.	
	C detail on drawing no. detail sur dessin no.	

project title / titre du projet  
**EDMONTON MAXIMUM SECURITY INSTITUTE**  
**FIRE ALARM UPGRADE**

drawing title / titre du dessin  
**FIRE ALARM RISER**

designed by / conçu par  
**P. BEAUBIEN**

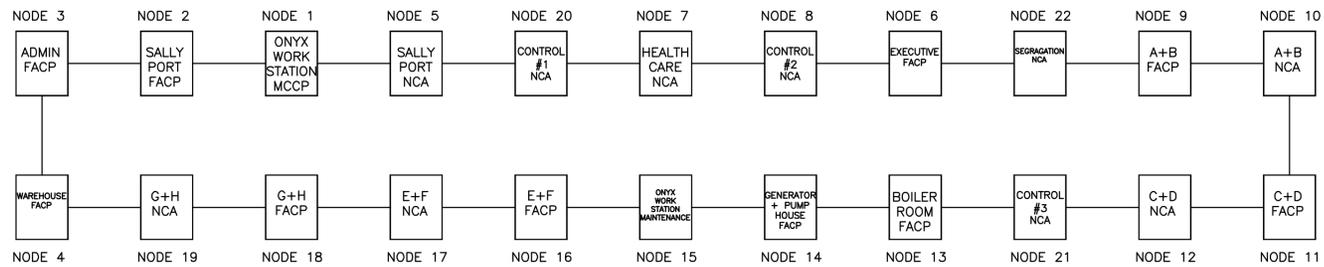
drawn by / dessiné par  
**L. HONDERD**

approved by / approuvé par  
**P. BEAUBIEN**

PWSC Project Manager / Administrateur de Projets TPSGC

scale / échelle AS NOTED / sheet / feuille

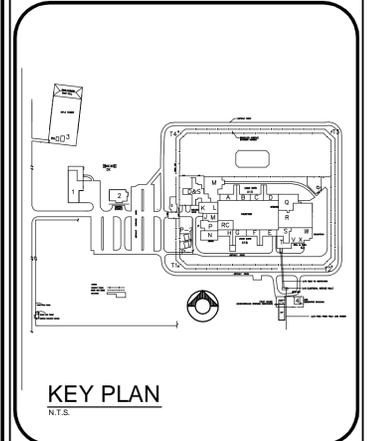
project no. / projet no. **R.014522.001**  
date / date **APRIL 17, 2013**  
sheet / feuille **E15**  
OF 17



**RISER EMSI**  
N.T.S.

**CORRECTIONAL SERVICE CANADA**

**beaubien glover maskell engineering**  
 Suite 400 - 4444 - 42 Avenue  
 Edmonton, Alberta, T6E 2V6  
 Tel: 780-429-2266 Fax: 780-429-4466  
 Job #5783



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C	detail on drawing no. detail sur dessin no.	

**EDMONTON MAXIMUM SECURITY INSTITUTION**  
**FIRE ALARM UPGRADE**

drawing title / titre du dessin  
**OVERALL BLOCK DIAGRAM FLOOR PLAN F/A ZONES AND F/A SHUTDOWN INFORMATION ONLY**

designed by / conçu par: P. BEAUBIEN  
 drawn by / dessiné par: L. HONDERD  
 approved by / approuvé par: P. BEAUBIEN  
 PWSC Project Manager / Administrateur de Projets TPSGC

scale / échelle: AS NOTED	sheet / feuille: E16
project no. / projet no.: R.014522.001	date / date: APRIL 17, 2013

**NOTES:**

- EXISTING F/A INITIATING ZONE CCTS, BELL CCTS, AND F/A MECHANICAL FAN SHUT-DOWN CONTROL'S SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY. CONTRACTOR SHALL REFER TO THE CONDITIONS FOR ALL DEVICES AND ZONE LOCATIONS.
- F/A CABINETS B, C, D, E, F AND G ARE EXISTING IN UTILITY TUNNEL. INSTALL NEW F/A CABINET J IN UTILITY TUNNEL AS INDICATED.
- INSTALL NEW F/A CONTROL PANELS 'RFACP-A' AND 'RFACP-B' IN TUNNEL AND PANEL 'MFACP-C' IN GATEHOUSE.
- RE-USE EXISTING CONDUITS FOR NEW WIRING IN TUNNEL AND IN OTHER AREAS AS MUCH AS POSSIBLE.
- IDENTIFY AND VERIFY ALL EXISTING F/A CCTS AND LOCATION OF EACH ZONE/CCT. CONDUIT RUNS TO TERMINATION CABINET/FIRE ALARM CONTROL PANEL AND UTILITY CORRIDOR.
- CONNECT AND PROGRAM ALL EXISTING AND NEW DEVICES SUCH THAT NEW ADDRESSABLE CELL SMOKE DETECTORS SHALL BE IDENTIFIED BY CELL NUMBER AND THE EXISTING ZONE FOR F/A INITIATING DEVICES, BELL CCTS, CONTROL'S SHALL BE IDENTIFIED BY ZONE NUMBERS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR NOT TO OMIT ANY EXISTING F/A AND CONTROL CCT WITHIN THE COMPLEX INSIDE THE FENCE INCLUDING THE NEW RECEPTION UNIT ADDITION AND THE NEW GATEHOUSE FOR INTEGRATION INTO NEW F/A CONTROL SYSTEM.
- ALL NEW ZONE ADAPTER INTERFACE MODULES SHALL BE INSTALLED IN INTERFACE PANEL TO PICK UP EXISTING CONVENTIONAL F/A ZONE CCTS.
- PROVIDE ONE SPARE F/A CABLE IN EACH CONDUIT.
- PULL STATION AT CONTROL POST/BOOTH SHALL BE ADDRESSABLE UNIT AND MOUNTED ON CONTROL CONSOLE.
- 24V d.c. POWER CCTS AND BELL CCTS ARE NOT SHOWN IN THE BLOCK DIAGRAM.
- FOR EXISTING F/A SYSTEM REFER TO EXISTING F/A RISER DIAGRAM ON SHEET AB-E24-R2.

GAD FILE: 1625921/25921-11

revision	date
A	
B	
C	

project / projet: EDMONTON, ALBERTA MAXIMUM SECURITY INSTITUTION

AS-BUILT 95/03/31 CANADIAN PENITENTIARY SERVICE

drawing / dessin: OVERALL BLOCK DIAGRAM  
 PROVISION OF CELL SMOKE DETECTORS AND UPGRADING OF FIRE ALARM CONTROL SYSTEM

DESIGNED / conçu: Y.K. & M.H.  
 DRAWN / dessiné: SEC  
 DATE / date: FEB. 15, 1994

APPROVED / approuvé: [Signature]  
 TENDER / soumission: [Signature]

PWC PROJECT MANAGER / NO. DU PROJET: 625921  
 DRAWING NUMBER / NO. DU DESSIN: SHEET 11 of 12

**NEW ZONES:**

UPPER FLOOR (D & S)	CELLS 205 - 210 & 215 - 220
LOWER FLOOR (D & S)	CELLS 114 - 119 & 124 - 129
	CELLS 132 - 137 & 142 - 147

**EXISTING ZONES:**

D & S AREAS K.L. & M	CONTROL POST SIGNAL
47 - S NORTH ROE UPPER	52 - D WEST ROE LOWER
48 - S NORTH ROE LOWER	53 - D SOUTH ROE UPPER
49 - S WEST ROE UPPER	54 - D SOUTH ROE LOWER
50 - S WEST ROE LOWER	55 - D & S SEVERY AREA
51 - D WEST ROE UPPER	56 - D & S CTR POST
57 - MECH ROOMS	58 - SPRINKLERS
MECH ROOM BELL	

**PULL STATION CONTROL BOOTH A108 CONTROL CONSOLE**

**CONTROL POST A108 SIGNAL INA/CORCAN/TUNNEL SIGNAL**

**EXISTING ZONES:**

9 - UPPER A UNIT
10 - LOWER A UNIT
11 - SOC. AREA A UNIT
12 - SOC. AREA B UNIT
13 - LOWER B UNIT
14 - UPPER B UNIT
42 - TUNNEL A & B

**EXISTING ZONES:**

15 - UPPER C UNIT
16 - LOWER C UNIT
17 - SOC. AREA C UNIT
18 - SOC. AREA D UNIT
19 - LOWER D UNIT
20 - UPPER D UNIT
43 - TUNNEL C & D

**EXISTING ZONES:**

33 - KITCHEN
34 - INDUSTRIES
35 - EAST MECHANICAL ROOM/IND CATWALK

**NOTES:**  
 .1 CONNECT EXISTING AND NEW DEVICES TO NEW DATA LOOPS OF NEW F/A CONTROL PANELS 'RFACP-A', 'RFACP-B' AND 'MFACP-C' AS FOLLOWS:

- LOOP 1A EXISTING F/A DEVICES CONNECTED TO EXISTING F/A CABINET 'C' CP #3
- LOOP 2A FAN SHUTDOWN MODULES EXISTING INTAKE ASSESSMENT (INA) ZONES. INA BELL CCT. EXISTING SPRINKLER DEVICES.
- LOOP 3A NEW ADDRESSABLE CELL SMOKE DETECTORS IN UNIT E, BOTH UPPER AND LOWER FLOORS, AND EXISTING F/A DEVICES ON THESE FLOORS AND IN TUNNEL.
- LOOP 4A NEW ADDRESSABLE CELL SMOKE DETECTORS IN UNIT F, BOTH UPPER AND LOWER FLOORS, AND EXISTING F/A DEVICES ON THESE FLOORS AND IN TUNNEL.
- LOOP 5A NEW ADDRESSABLE CELL SMOKE DETECTORS IN UNIT G, BOTH UPPER AND LOWER FLOORS, AND EXISTING F/A DEVICES ON THESE FLOORS AND IN TUNNEL.
- LOOP 6A NEW ADDRESSABLE CELL SMOKE DETECTORS IN UNIT H, BOTH UPPER AND LOWER FLOORS, AND EXISTING F/A DEVICES ON THESE FLOORS AND IN TUNNEL.
- LOOP 7A EXISTING F/A DEVICES IN BUILDINGS J,M,N, P
- LOOP 8A SPARE FOR FUTURE EXTENSION.
- LOOP 1B NEW ADDRESSABLE CELL SMOKE DETECTORS IN UNIT D, BOTH UPPER AND LOWER FLOORS, EXISTING F/A DEVICES ON THESE FLOORS AND IN TUNNEL, AND CABINET C, CABINET D.
- LOOP 2B NEW ADDRESSABLE CELL SMOKE DETECTORS IN UNIT C, BOTH UPPER AND LOWER FLOORS, AND EXISTING F/A DEVICES ON THESE FLOORS AND IN TUNNEL.
- LOOP 3B NEW ADDRESSABLE CELL SMOKE DETECTORS IN UNIT B, BOTH UPPER AND LOWER FLOORS, AND EXISTING F/A DEVICES ON THESE FLOORS AND IN TUNNEL.
- LOOP 4B NEW ADDRESSABLE CELL SMOKE DETECTORS IN UNIT A, BOTH UPPER AND LOWER FLOORS, AND EXISTING F/A DEVICES ON THESE FLOORS AND IN TUNNEL.
- LOOP 5B NEW ADDRESSABLE CELL SMOKE DETECTORS ON UPPER FLOOR IN DISSOCIATION AND SEGREGATION (D & S) AREA AND EXISTING F/A DEVICES IN THE SAME AREA.
- LOOP 6B NEW ADDRESSABLE CELL SMOKE DETECTORS ON LOWER FLOOR IN DISSOCIATION AND SEGREGATION (D & S) AREA AND EXISTING F/A DEVICES IN THE SAME AREA.
- LOOP 7B EXISTING F/A DEVICES IN AREAS L,M, AND K FOR FUTURE EXTENSION.
- LOOP 8B SPARE LOOP FOR AREAS L, M, AND K FOR FUTURE EXTENSION.
- LOOP 1C DEVICES IN NEW GATEHOUSE AREA.
- LOOP 2C SPARE LOOP FOR FUTURE EXTENSION IN NEW GATEHOUSE.

- INTERCONNECT NEW F/A CONTROL PANELS 'RFACP-A' AND 'RFACP-B' VIA A COMMUNICATION LOOP AND PROVIDE CABLE SLACKS IN THE PULLBOX Q FOR CONNECTION TO NEW F/A MAIN PANEL 'MFACP-C' IN THE NEW GATEHOUSE.
- USE EXISTING 50 mm CONDUIT FOR INSTALLING COMMUNICATION LOOP IN THE TUNNEL AS MUCH AS POSSIBLE.
- CONNECT NEW ADDRESSABLE ANNUNCIATORS TO NEAREST NEW F/A CONTROL PANELS AS INDICATED.
- COMMUNICATION BETWEEN F/A CONTROL PANELS SHALL BE IN TYPE 7, CLOSED-LOOP COMMUNICATION SYSTEM VIA #18 AWG TWISTED, SHIELDED PAIR COMMUNICATION CABLES (BELDEN 9368 OR EQUAL).

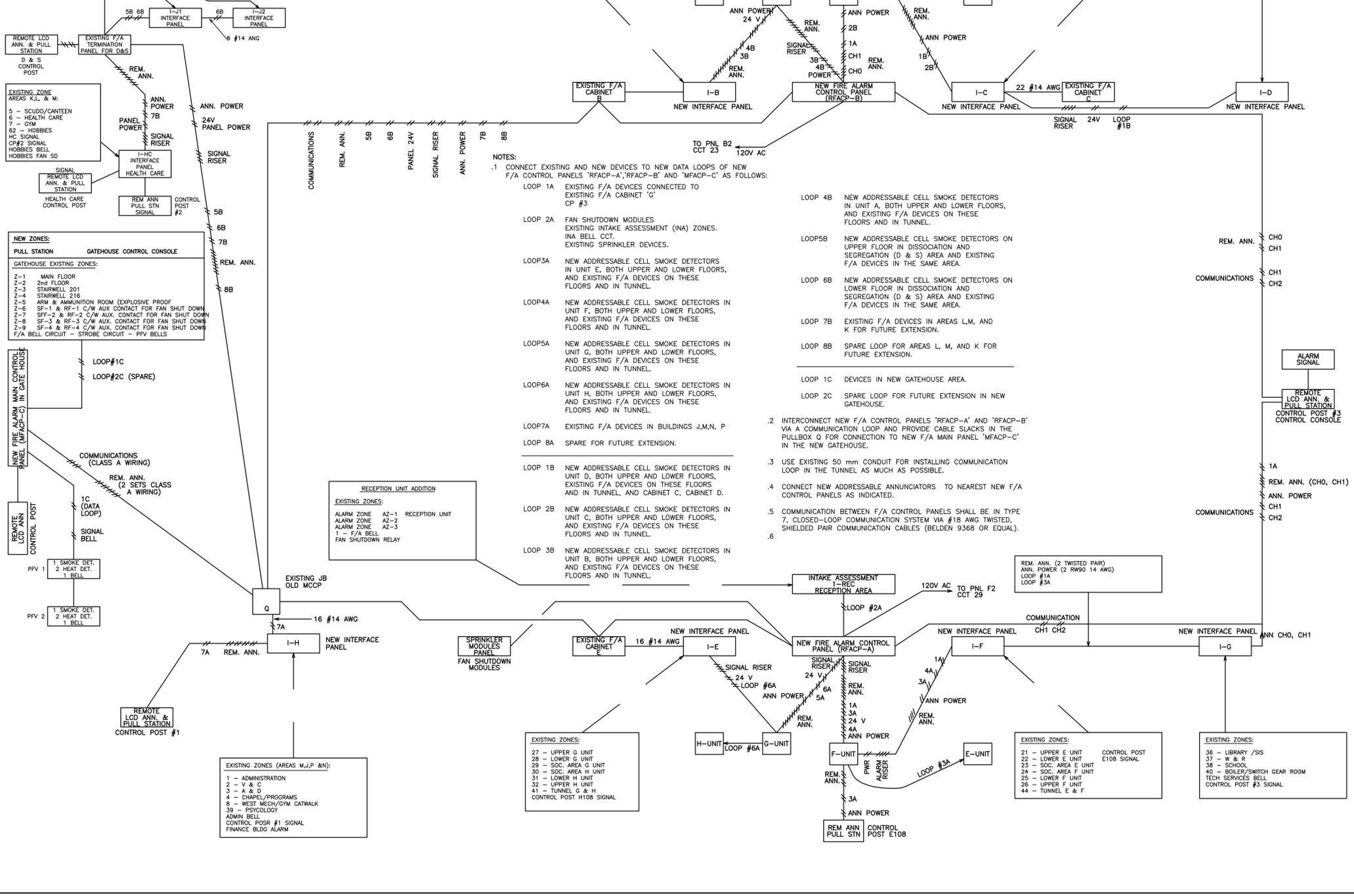
**RECEPTION UNIT ADDITION**

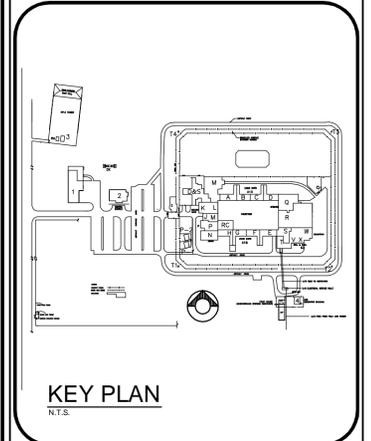
**EXISTING ZONES:**

ALARM ZONE A2-1	RECEPTION UNIT
ALARM ZONE A2-2	
ALARM ZONE A2-3	
1 - F/A BELL	FAN SHUTDOWN RELAY

**EXISTING ZONES (AREAS M,J,P & N):**

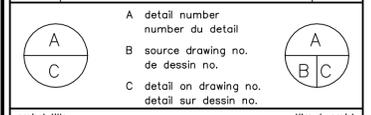
1 - ADMINISTRATION
2 - V & C
3 - A & D
4 - CHAPEL/PROGRAMS
8 - WEST MECH/GYM CATWALK
39 - PSYCHOLOGY ADMIN BELL
CONTROL POST #1 SIGNAL
FINANCE BLDG ALARM





**RECORD DRAWING**  
 THIS RECORD DRAWING AND/OR RECORD SPECIFICATION HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, GENWAR CANNOT ASSURE ITS ACCURACY, AND THIS IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS RECORD AND/OR RECORD SPECIFICATION OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

REVISIONS	DESCRIPTION	DATE
9	ISSUED FOR RECORD DRAWING	13/06/12
8	ED1 SITE PLAN ISSUED FOR RECORD DRAWING	12/10/18
7	ISSUED FOR CONSTRUCTION	09/06/01
6	ADDENDUM E1	09/03/18
5	ISSUED FOR TENDER	09/02/03
4	ISSUED FOR 100% TENDER	09/01/02
3	ISSUED FOR 99% REVIEW	08/10/13
2	ISSUED FOR 50% RE-SUBMISSION	08/09/10
1	ISSUED FOR 50% REVIEW	08/04/11



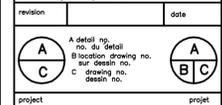
project title: **EDMONTON MAXIMUM SECURITY INSTITUTION**  
 titre du projet: **EDMONTON MAXIMUM SECURITY INSTITUTION**  
**FIRE ALARM UPGRADE**

drawing title: **OVERALL BLOCK DIAGRAM FLOOR PLAN F/A ZONES AND F/A SHUTDOWN INFORMATION ONLY**  
 titre du dessin: **OVERALL BLOCK DIAGRAM FLOOR PLAN F/A ZONES AND F/A SHUTDOWN INFORMATION ONLY**

designed by: **P. BEAUBIEN** concu par  
 drawn by: **L. HONDERD** dessine par  
 approved by: **P. BEAUBIEN** approuve par  
 PWGSC Project Manager: **Administrateur de Projets TPSGC**  
 scale: **AS NOTED** echelle: sheet: **E17** feuille:  
 project no.: **R.014522.001** projet no.: **E17**  
 date: **APRIL 17, 2013** date: **OF 17**

NOTES:  
 1 EXISTING F/A INITIATING ZONE CCTS, BELL CTS, AND F/A MECHANICAL FAN SHUT-DOWN CONTROLS SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY. CONTRACTOR SHALL REFER TO SITE CONDITIONS FOR ALL DEVICES AND ZONE LOCATIONS.  
 2 CONTRACTOR SHALL IDENTIFY AND VERIFY ALL EXISTING F/A AND CONTROL CIRCUITS. DRAWINGS WILL BE MADE AVAILABLE BY PWGSC FOR REFERENCE.  
 3 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR NOT TO OMIT ANY EXISTING F/A AND CONTROL CCTS WITHIN THE COMPLEX INSIDE THE FENCE INCLUDING THE NEW RECEPTION UNIT ADDITION AND THE NEW GATEHOUSE FOR INTEGRATION INTO NEW F/A CONTROL SYSTEM.  
 4 ALL NEW ADDRESSABLE CELL SMOKE DETECTORS SHALL BE IDENTIFIED BY CELL NUMBER AND THE EXISTING ZONES FOR F/A INITIATING DEVICES, BELL CTS, AND AIR HANDLING CONTROLS SHALL BE IDENTIFIED BY ZONE NUMBERS.  
 5 PROVIDE DIFFERENT TYPES OF NECESSARY ZONE ADAPTER INTERFACE MODULES FOR CONNECTING EXISTING F/A CCTS TO THE NEW ADDRESSABLE F/A CONTROL SYSTEM.  
 6 RE-CONNECT EXISTING CERBERUS ADDRESSABLE 'CONVENTIONAL' ZONE MODULES (CZM) FOR THE SPRINKLER ALARM VALVES (NOT SHOWN ON DRAWING) IN THE UTILITY CORRIDOR (TOTAL 24) TO THE NEAREST F/A CONTROL PANEL. PROVIDE NEW ZONE ADAPTER INTERFACE MODULES COMPATIBLE TO THE NEW F/A CONTROL SYSTEM.  
 7 SUPPLY AND INSTALL ADDRESSABLE REMOTE ANNUNCIATORS WITH ALPHA-NUMERIC LCD DISPLAY AT DIFFERENT CONTROL POSTS AS INDICATED.  
 8 REFER TO SCOPE OF WORK IN THE DETAILED SPECIFICATIONS FOR FURTHER DETAIL.  
 9 REMOVE ALL EXISTING F/A CONTROL PANELS IN THE MAIN COMMUNICATION CONTROL POST (MCCP) AFTER COMPLETE UPGRADING OF THE F/A CONTROL SYSTEM.

revision	date
1	



project: **EDMONTON, ALBERTA MAXIMUM SECURITY INSTITUTION**  
 AS-BUILT 95/03/31  
 CANADIAN PENITENTIARY SERVICE

drawn by: **FLOOR PLANS FOR EXISTING F/A ZONES AND AIR HANDLER F/A SHUTDOWN SCHEMATIC**  
 PROVISION OF CELL SMOKE DETECTORS AND UPGRADING OF FIRE ALARM CONTROL SYSTEMS

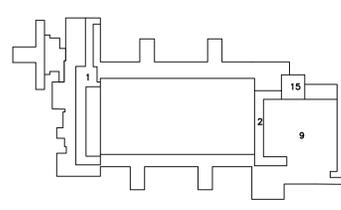
DESIGNED: Y.K. & M.H. CONDU  
 DATE: FEB. 15, 1994  
 DRAWN: DATE: FEB. 15, 1994  
 APPROVED: APPROUVE  
 TENDER: SOUMISSION  
 P.W.G. PROJECT MANAGER: **625921**  
 PROJECT NUMBER: **NO. DU PROJET**  
 DRAWING NUMBER: **NO. DU DESSIN**  
**SHEET 10 of 12**

**AIR HANDLER, FIRE ALARM SHUTDOWN CODING**

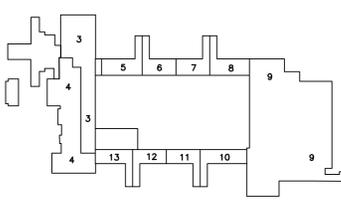
21	UPPER LEVEL WEST	A.H. 16,17,18,19,20,21,22,23,24, 25,26,27,28,44,45,46,47
22	UPPERLEVEL EAST	A.H. 32
23	GYM & HALL MAIN FLOOR	A.H. 23,24,25,26,27,39,40,41,42
24	MAIN FLOOR WEST OF HALL	A.H. 16,17,18,19,20,21,22,25,44, 45,46
25	A UNIT	A.H. 13,14,35
26	B UNIT	A.H. 13,14,35
27	C UNIT	A.H. 10,11,36
28	D UNIT	A.H. 10,11,36
29	INDUSTRIES AREA	A.H. 48,49,50,51
210	E UNIT	A.H. 4,5,38
211	F UNIT	A.H. 4,5,38
212	G UNIT	A.H. 7,8,37
213	H UNIT	A.H. 7,8,37
214	COMPLETE TUNNEL	A.H. 4,5,6,7,8,9,10,11,12,13,14,15
215	EAST MECH. ROOM	A.H. 29,30,31,32,FAN 81
216	KITCHEN & DINING ROOM	A.H. 29,30,31
217	LAUNDRY AREA	A.H. 2
218	TECH. SERVICES	A.H. 3

AH 2	A		Z17
AH 3	A		Z18
AH 4	A		Z10 Z11 Z14
AH 5	A		Z10 Z11 Z14
AH 6	A		Z14
AH 7	A		Z12 Z13 Z14
AH 8	A		Z12 Z13 Z14
AH 9	A		Z14
AH 10	A		Z7 Z8 Z14
AH 11	A		Z7 Z8 Z14
AH 12	A		Z14
AH 13	A		Z5 Z6 Z14
AH 14	A		Z5 Z6 Z14
AH 15	A		Z14
AH 16, 17, 18, 19, 20, 21, 22, 25, 44, 45, 46	A		Z1 Z4
AH 23, 24, 26, 27	A		Z1 Z3
AH 28	A		Z1
AH 29, 30, 31	A		Z16 Z15
AH 32	A		Z2 Z15
AH 35	A		Z5 Z6
AH 36	A		Z7 Z8
AH 37	A		Z12 Z13
AH 38	A		Z10 Z11
AH 39, 40, 41, 42	○		Z3
AH 47	○		Z1
AH 48, 49, 50, 51	○		Z9
FAN 81	○		Z15

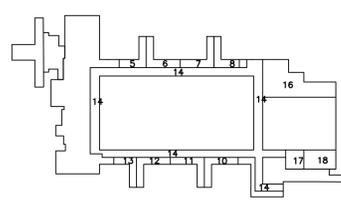
**AIR HANDLER FIRE ALARM SHUTDOWN SCHEMATIC**



UPPER FLOOR KEY PLAN  
N.T.S.



MAIN FLOOR KEY PLAN  
N.T.S.



LOWER FLOOR (& TUNNEL) KEY PLAN  
N.T.S.

**ZONE LOCATION**

- 1 - ADMINISTRATION
- 2 - V & C
- 3 - A & D
- 4 - CHAPEL/PROGRAMS
- 5 - SCUDO/CANTEEN
- 6 - HEALTH CARE
- 7 - GYM/HOBBIES
- 8 - WEST MECHANICAL RM/GYM CATWALK
- 9 - UPPER A UNIT
- 10 - LOWER A UNIT
- 11 - SOC AREA A UNIT
- 12 - SOC AREA B UNIT
- 13 - LOWER B UNIT
- 14 - UPPER B UNIT
- 15 - UPPER C UNIT
- 16 - LOWER C UNIT
- 17 - SOC AREA C UNIT
- 18 - SOC AREA D UNIT
- 19 - LOWER D UNIT
- 20 - UPPER D UNIT
- 21 - UPPER E UNIT
- 22 - LOWER E UNIT
- 23 - SOC AREA E UNIT
- 24 - SOC AREA F UNIT
- 25 - LOWER F UNIT
- 26 - UPPER F UNIT
- 27 - UPPER G UNIT
- 28 - LOWER G UNIT
- 29 - SOC AREA G UNIT
- 30 - SOC AREA H UNIT
- 31 - LOWER H UNIT
- 32 - UPPER H UNIT
- 33 - KITCHEN
- 34 - INDUSTRIES
- 35 - EAST MECHANICAL RM/IND CATWALK
- 36 - LIBRARY/SIS
- 37 - W & E
- 38 - SCHEDULE
- 39 - PSYCHOLOGY
- 40 - BOILER/SWITCH GEAR RM
- 41 - TUNNEL G & H
- 42 - TUNNEL A & B
- 43 - TUNNEL C & D
- 44 - TUNNEL E & F
- 47 - S NORTH RGE UPPER
- 48 - S NORTH RGE LOWER
- 49 - S WEST RGE UPPER
- 50 - S WEST RGE LOWER
- 51 - D WEST RGE UPPER
- 52 - D WEST RGE LOWER
- 53 - D SOUTH RGE UPPER
- 54 - D SOUTH RGE LOWER
- 55 - D & S SERVERY AREA
- 56 - D & S CTL POST
- 57 - UPSTAIRS ELECTRIC
- 58 - INDICATES YOU HAVE ACTUAL WATER FLOW
- 59 - COMMAND POST #3

**GATEHOUSE:**

- ZONE LOCATION**
- Z-1 - MAIN FLOOR
  - Z-2 - 2ND FLOOR
  - Z-3 - STAIRWELL 201
  - Z-4 - STAIRWELL 216
  - Z-5 - ARMS AND AMMUNITION ROOM (EXPLOSION PROOF)
  - Z-6 - SF-1 & RF-1 c/w AUX. CONTACT FOR FAN SHUTDOWN
  - Z-7 - SF-2 & RF-2 c/w AUX. CONTACT FOR FAN SHUTDOWN
  - Z-8 - SF-3 & RF-3 c/w AUX. CONTACT FOR FAN SHUTDOWN
  - Z-9 - SF-4 & RF-4 c/w AUX. CONTACT FOR FAN SHUTDOWN
  - F/A BELL CCT

**RECEPTION UNIT ADDITION:**

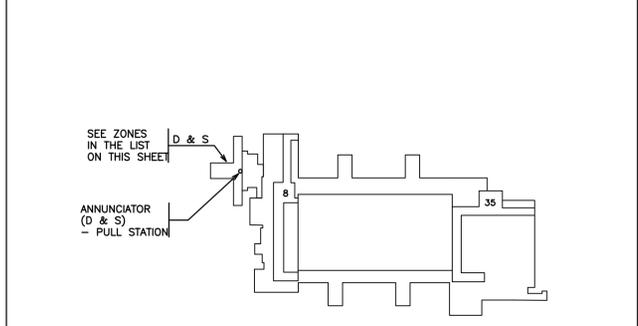
- ZONE LOCATION**
- AZ-1 - ALARM ZONE RECEPTION UNIT
  - AZ-2 - ALARM F-1 (SUPPLY FAN c/w FAN SHUTDOWN AUX. F/A CONTACT)
  - AZ-3 - ALARM ZONE SPRINKLER FLOW SWITCH
  - TZ-1 - TROUBLE ZONE SPRINKLER VALVE
  - 1 F/A BELL CCT

**REMOTE ANNUNCIATORS & PULL STATIONS:**

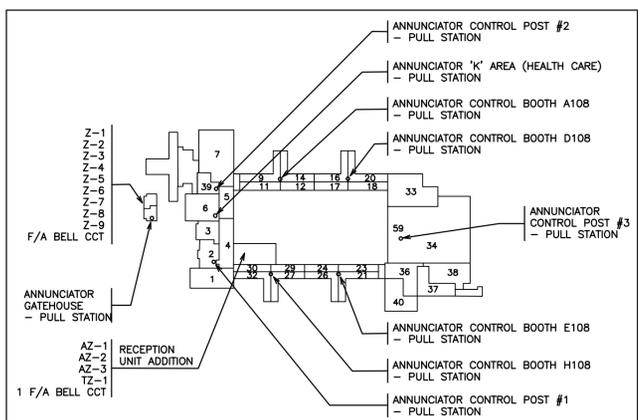
- D & S - 1
- HEALTH CARE - 1
- CONTROL POST - #1
- CONTROL POST - #2
- CONTROL POST - #3
- CONTROL BOOTH - A108
- CONTROL BOOTH - B108
- CONTROL BOOTH - E108
- CONTROL BOOTH - H108

**GATE HOUSE ENTRANCE**

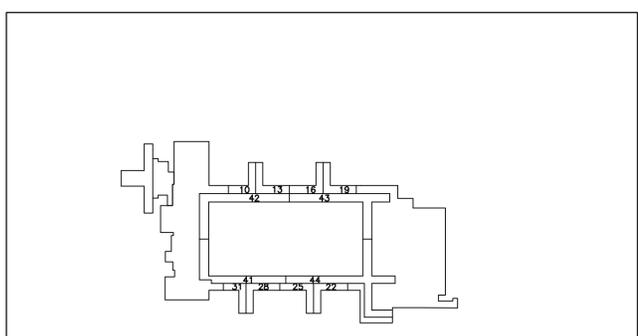
- OTHER BELL CCTS:**
- AREA 'Q' - 1
  - AREA 'R' - 1
  - AREA 'W' - 1
  - AREA 'N' - 1
  - TUNNEL - 4 (BUZZER)



UPPER FLOOR FIRE ALARM KEY PLAN  
N.T.S.



MAIN FLOOR FIRE ALARM KEY PLAN  
N.T.S.



LOWER FLOOR (& TUNNELS) FIRE ALARM KEY PLAN  
N.T.S.