

**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 date 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 lug.
- .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**





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

RECORD DRAWINGS DATE:JUNE 12-2013

E00-CoverSheet.dwg

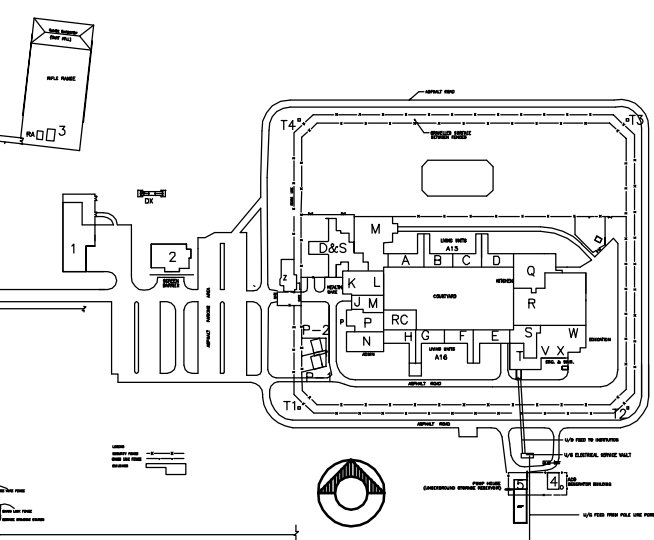
REAL PROPERTY SERVICES  
Western Region

Client  
**CORRECTIONAL SERVICE  
CANADA**

Client



Job #5783



KEY PLAN  
N.T.S.

RECORD DRAWING

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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
REVISIONS	DESCRIPTION	DATE

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

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

designed by  
**P. BEAUBIEN**

drawn by  
**L. HONDERD**

approved by  
**P. BEAUBIEN**

PWOSC Project Manager Administrateur de Projets TPSGC

scale  
**AS NOTED**

project no.  
**R.014522.001**

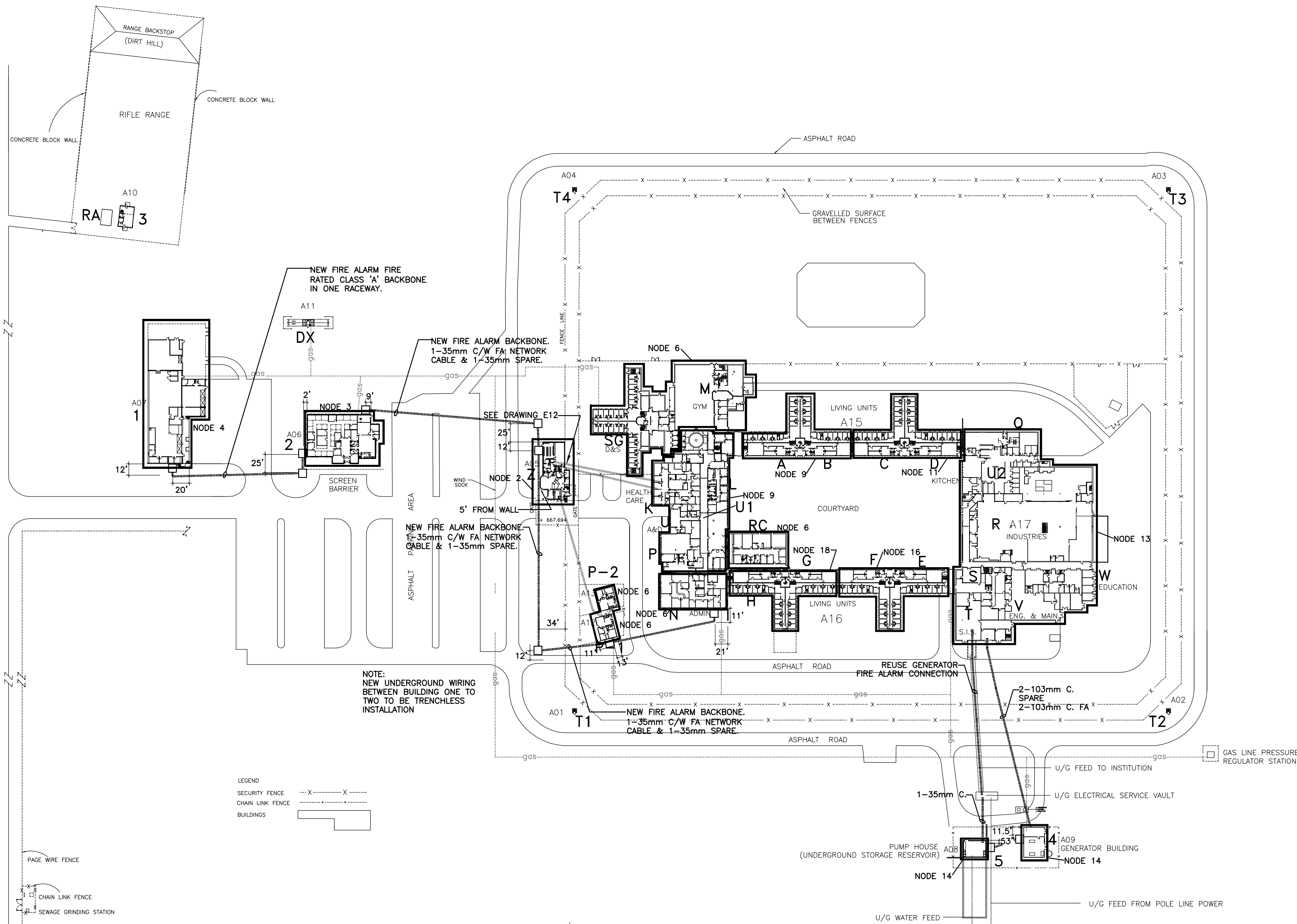
date  
**APRIL 17, 2013**

**E01**  
OF 17

LEGEND

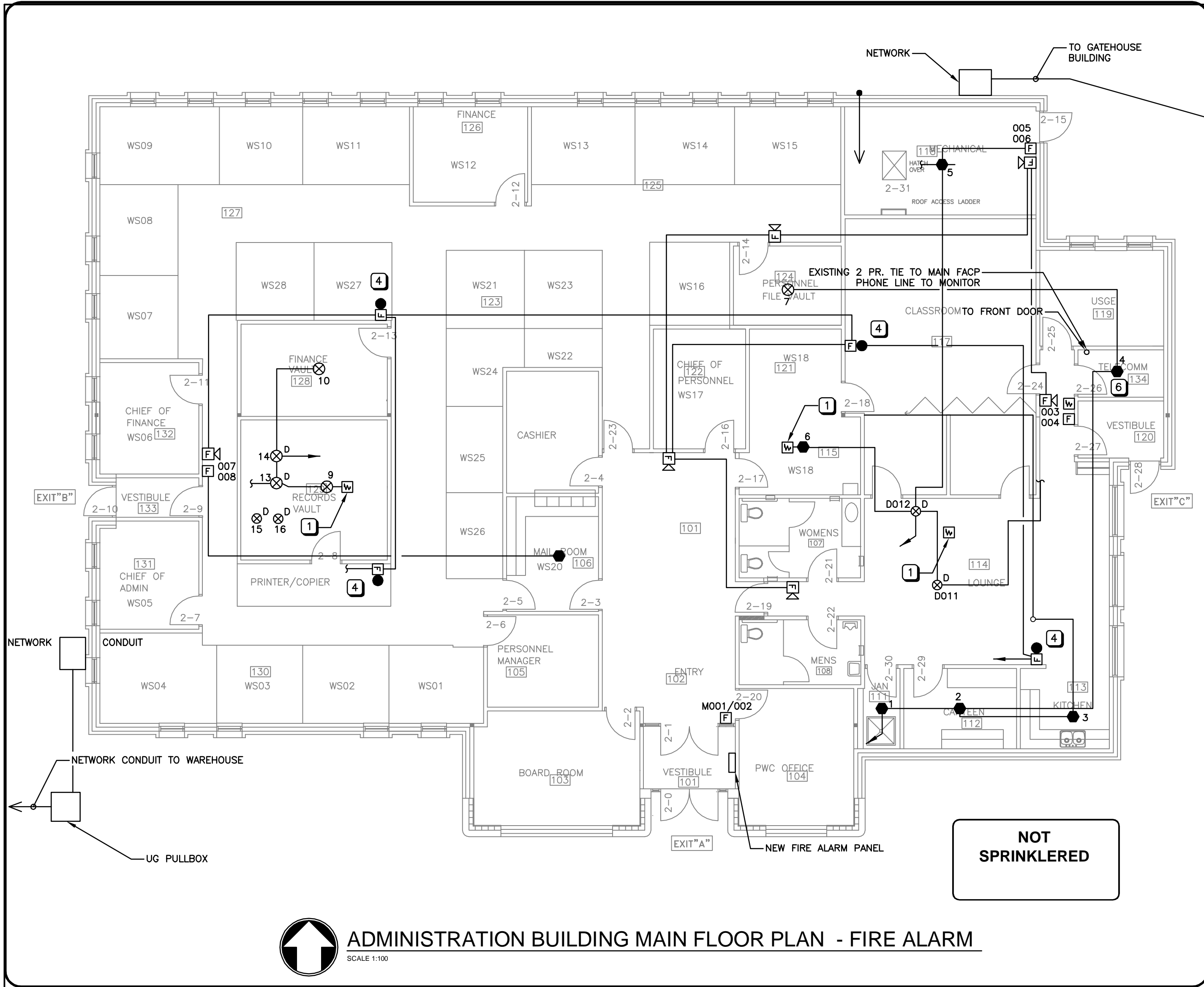
- F FIRE ALARM MANUAL PULL STATION
- F K FIRE ALARM MANUAL PULL STATION-KEY OPERATED
- F P FIRE ALARM MANUAL PULL STATION-KEY OPERATED
- FIXED TEMPERATURE HEAT DETECTOR (55°C OR 88°C)
- RATE OF RISE HEAT DETECTOR
- RATE OF RISE HEAT DETECTOR C/W GUARD COVER
- ⊗ SMOKE DETECTOR
- ⊗ SMOKE DETECTOR C/W GUARD COVER
- ⊗ AUX AUXILIARY SMOKE DETECTOR
- ⊗ D DUCT DETECTOR
- DEVICE REMOTE INDICATING LIGHT
- W END OF LINE RESISTOR
- D DOOR CONTACT
- F● FIRE ALARM BELL
- F H FIRE ALARM HORN/STROBE
- F H FIRE ALARM HORN
- F H FIRE ALARM HORN C/W GUARD
- S FIRE ALARM STROBE
- FIRE ALARM CONTROL PANEL (FACP)
- ⊗ FT SPRINKLER TAMPER SWITCH
- ⊗ F SPRINKLER FLOW SWITCH
- ⊗ P SPRINKLER PRESSURE SWITCH
- ⊗ 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
- ⊗ REMOVE EQUIPMENT
- SOLID IS NEW
- EXISTING IS HALF TONE

OVERALL SITE PLAN  
SCALE: 1:4000



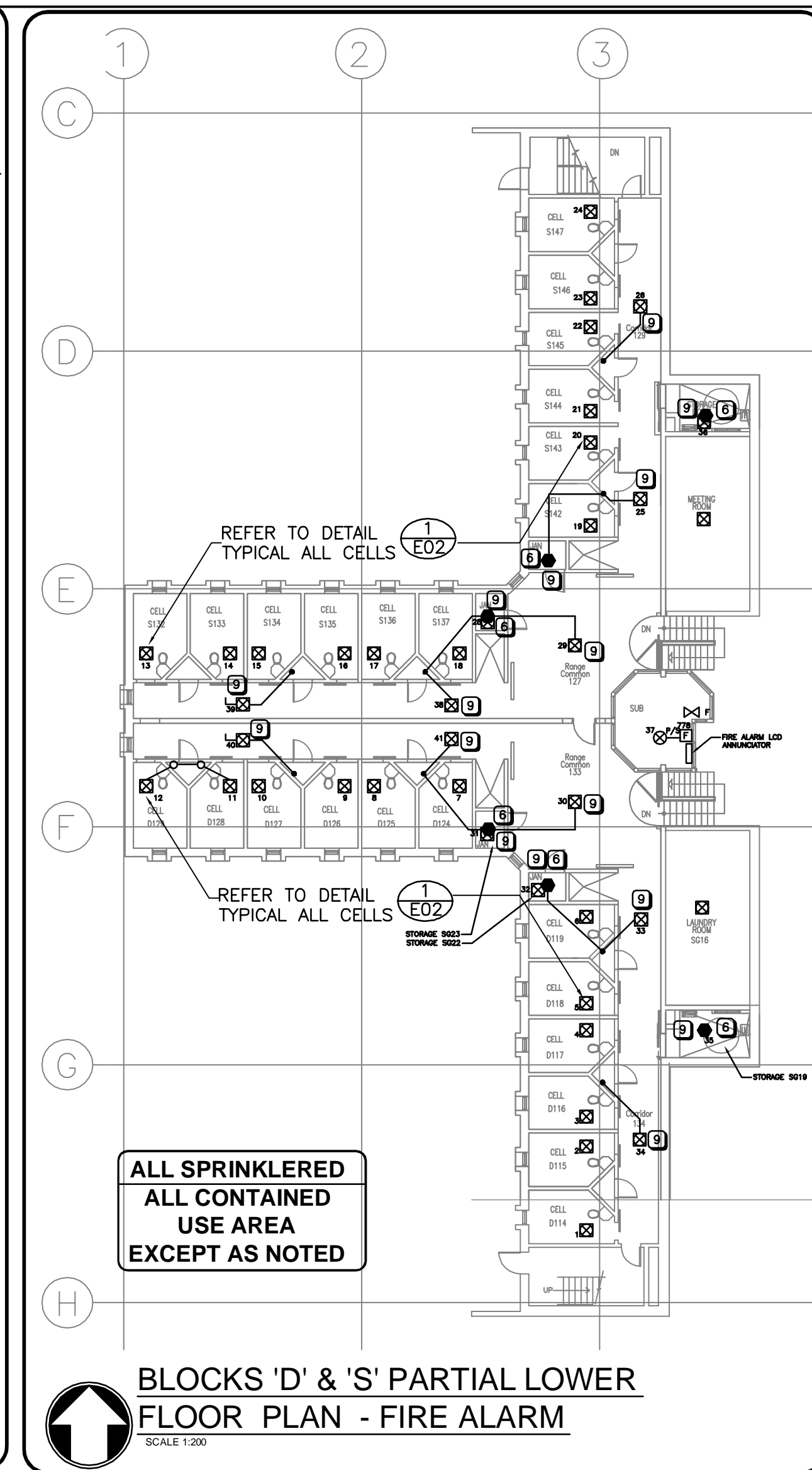
AREA CODE	AREA DESCRIPTION	AREA CODE	AREA DESCRIPTION
A to C	CELL BLOCKS	U-1	EAST MECHANICAL ROOM
D	MENTAL HEALTH CELL BLOCK	U-2	WEST MECHANICAL ROOM
E to F	CELL BLOCKS	V	ENGINEERING & MAINTENANCE
G to H	INTAKE ASSESSMENT CELL BLOCKS	W	SCHOOL
I	TUNNEL AREA	X	-
J	ADMISSION & DISCHARGE	Z	GATEHOUSE
K	HEALTH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

NO FIRE ALARM TO BE INSTALLED



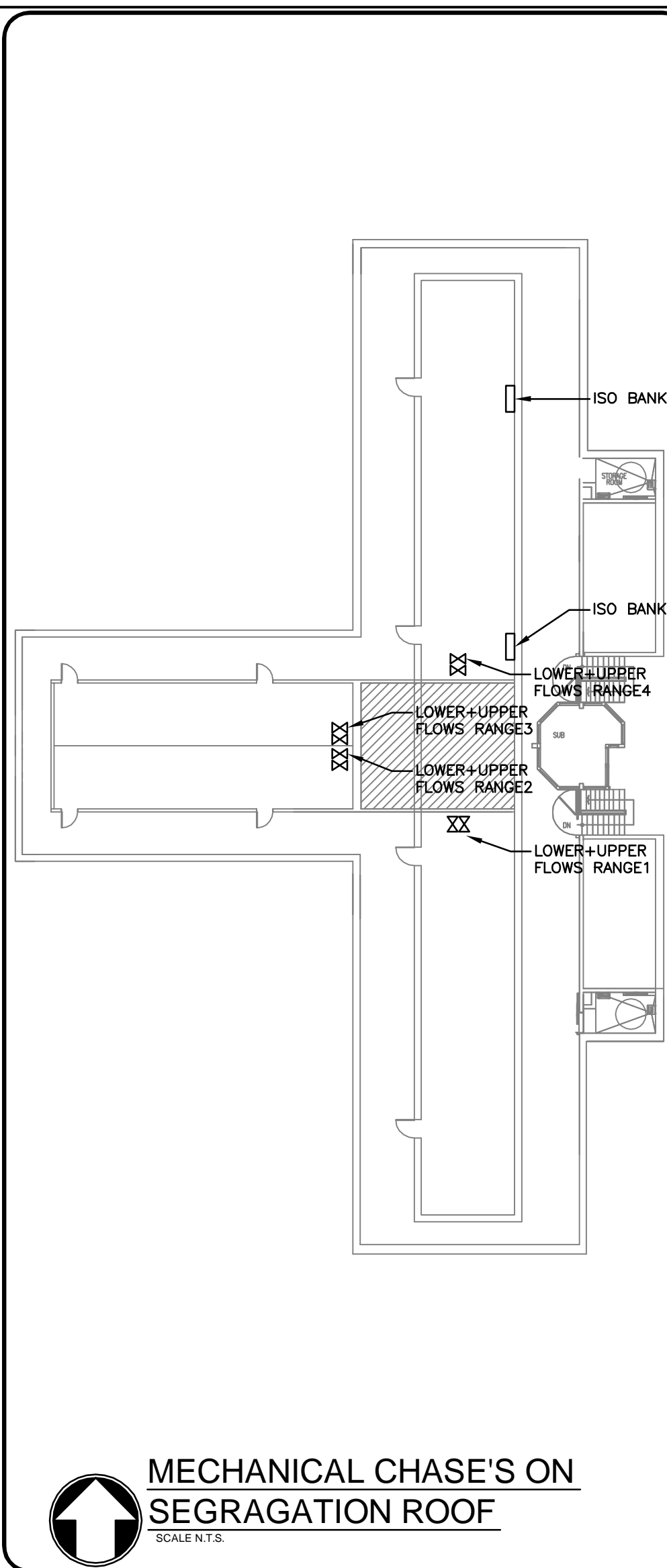
ADMINISTRATION BUILDING MAIN FLOOR PLAN - FIRE ALARM

SCALE 1:100



BLOCKS 'D' & 'S' PARTIAL LOWER FLOOR PLAN - FIRE ALARM

SCALE 1:200

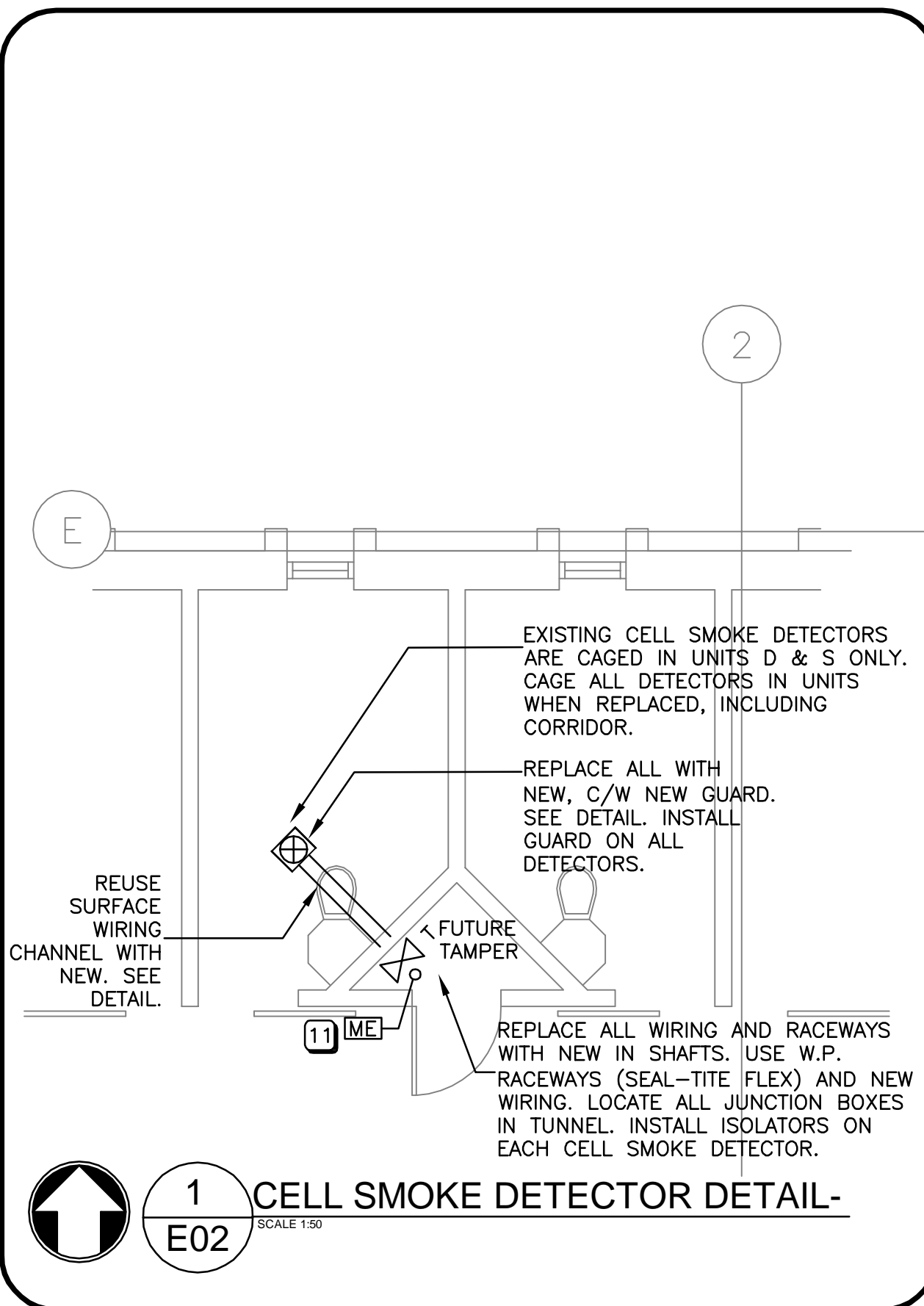


MECHANICAL CHASE'S ON SEGREGATION ROOF

SCALE N.T.S.

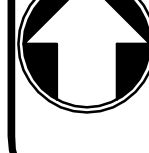
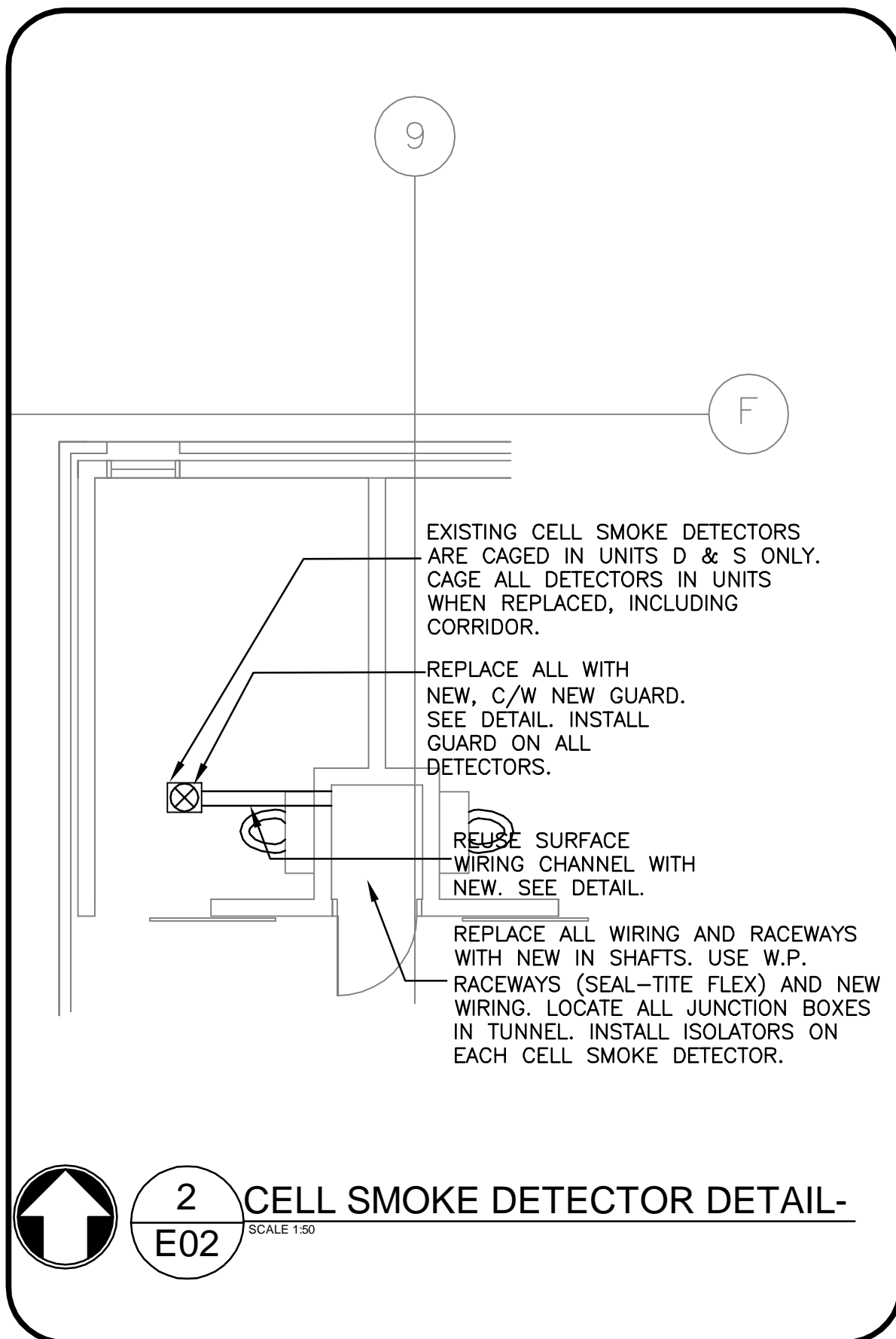
### KEYNOTES

- 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)



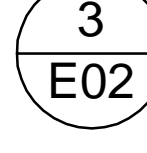
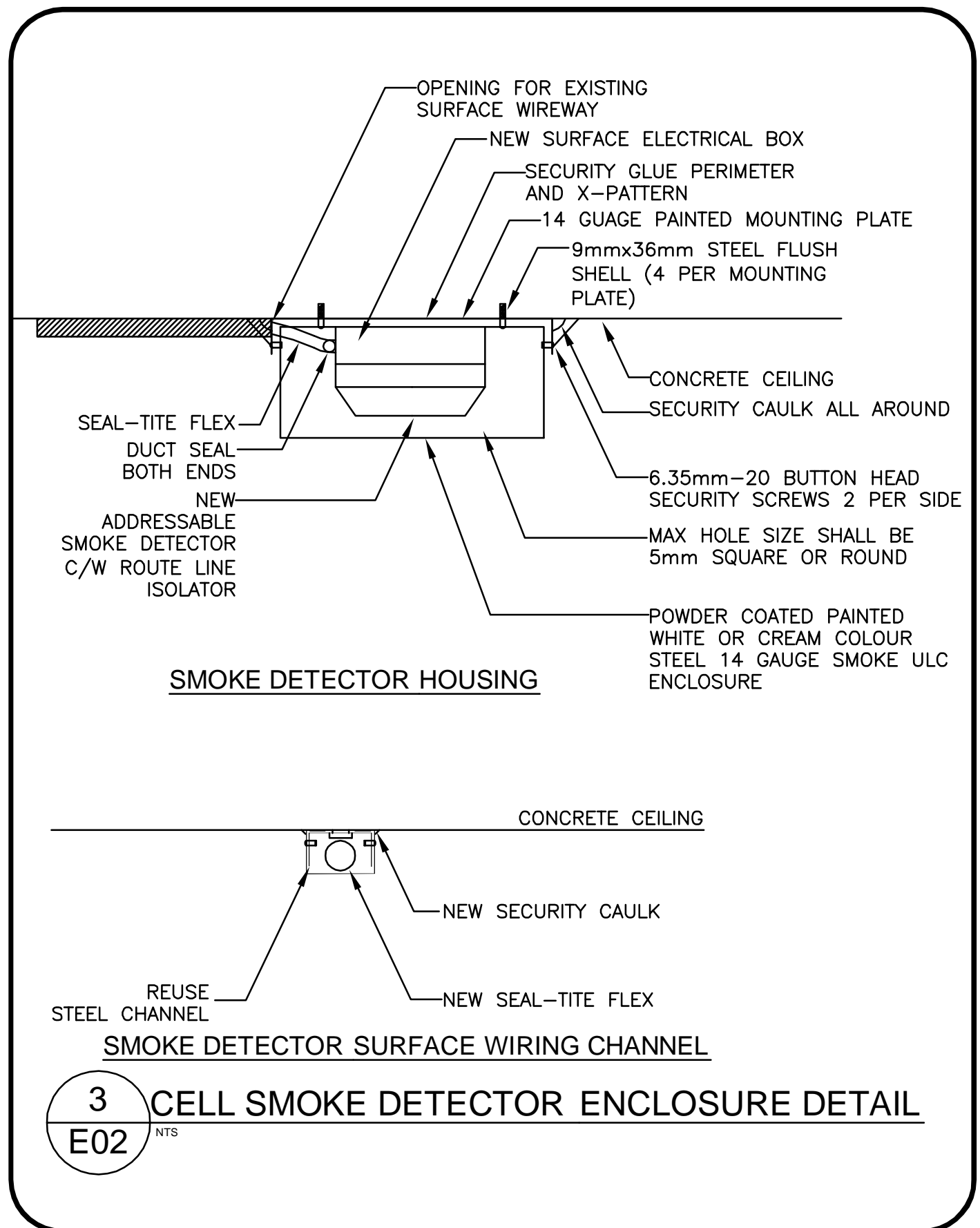
CELL SMOKE DETECTOR DETAIL- E02

SCALE 1:50




CELL SMOKE DETECTOR DETAIL- E02

SCALE 1:50




CELL SMOKE DETECTOR ENCLOSURE DETAIL E02

SCALE N.T.S.



Public Works and Government Services Canada



Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES


Western Region

Client

**CORRECTIONAL SERVICE CANADA**

Client

Client

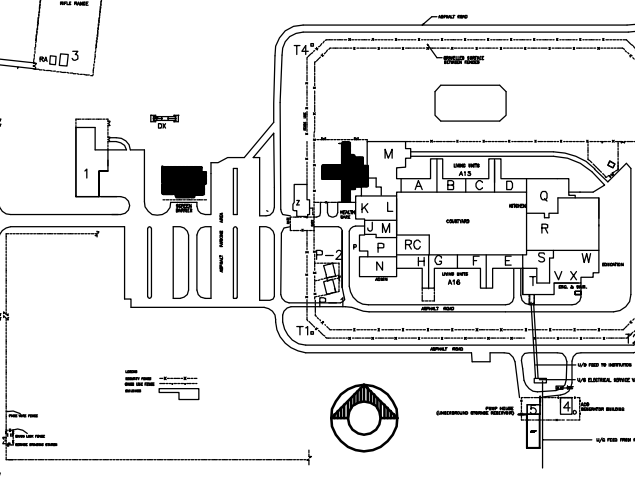


beaubien glover maskell engineering

Suite 400, 4400 - 42 Avenue Edmonton, Alberta, T6E 5V6 Tel: 780-429-2266 Fax: 780-429-4466 www.bgm.ca

Client

Job #5783



KEY PLAN

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2	ISSUED FOR 50% RE-SUBMISSION	08/09/10
1	ISSUED FOR 50% REVIEW	08/04/11

REVISIONS	DESCRIPTION	DATE
A	detail 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**

drawing title

**ADMINISTRATION BUILDING AND BLOCKS D & S PARTIAL LOWER FLOOR PLAN - MAIN BUILDING**

designed by

P. BEAUBIEN

conçu par

drawn by

L. HONDERD

dessiné par

approved by

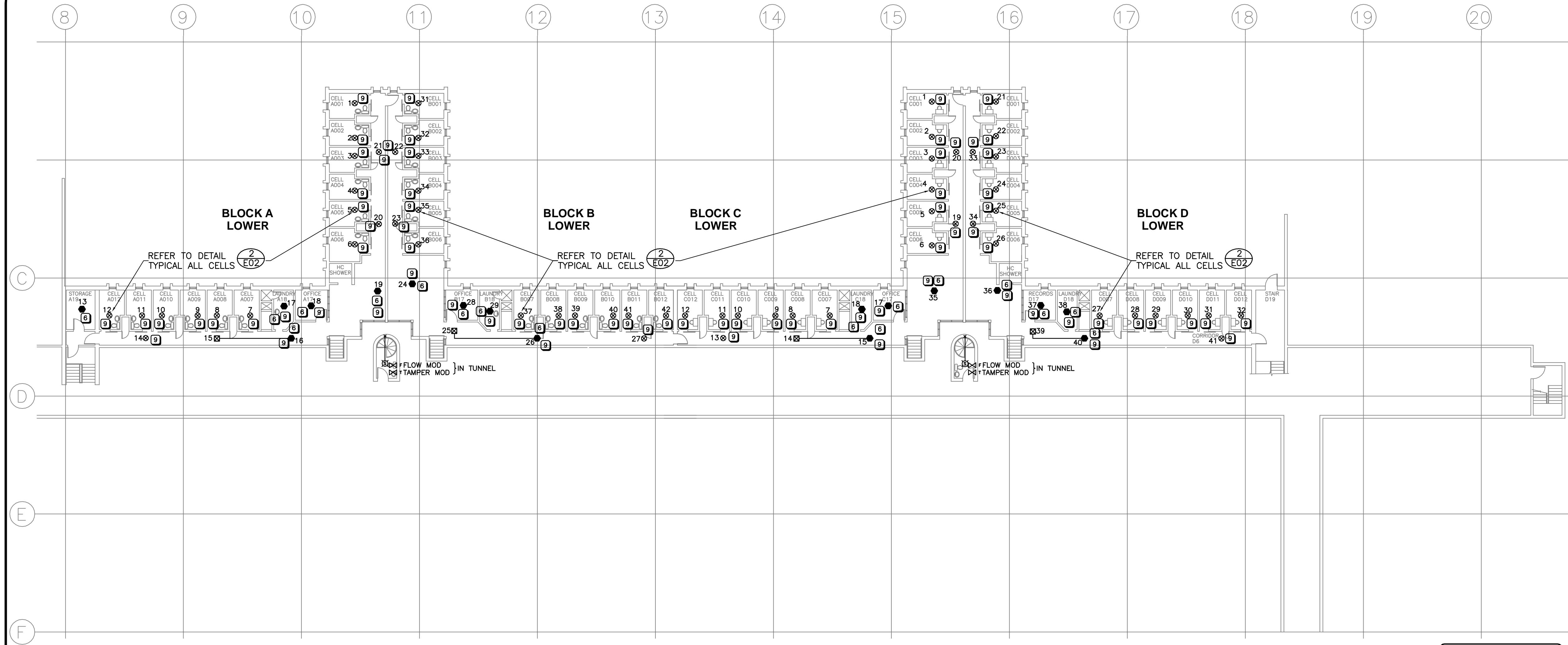
P. BEAUBIEN

approuvé par

PWSC Project Manager

Administrateur de Projets TPSSC

scale	AS NOTED	sheet	feuille
project no.	R.014522.001	project no.	E02
date	APRIL 17, 2013	date	OF 17



ALL SPRINKLERED  
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

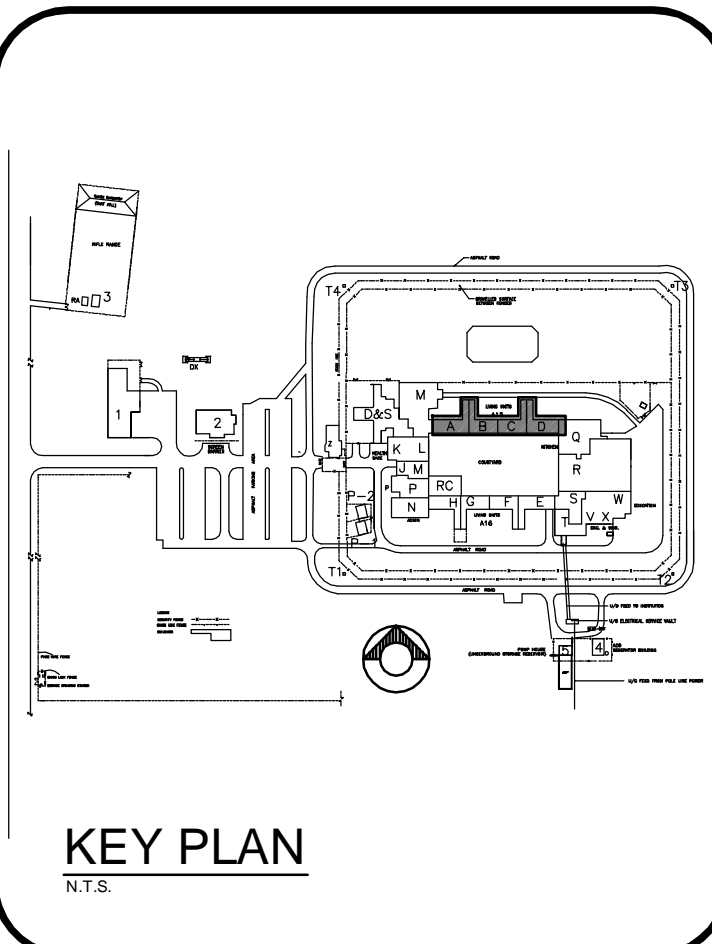
REAL PROPERTY SERVICES  
Western Region

Client  
**CORRECTIONAL SERVICE CANADA**

Client



Job #5783



KEY PLAN  
N.T.S.

RECORD DRAWING

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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

<div>A</div> <div>C</div>	A detail number number du detail B source drawing no. de dessin no. C detail on drawing no. detail sur dessin no.	<div>A</div> <div>B</div> <div>C</div>
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project title  
**EDMONTON MAXIMUM SECURITY INSTITUTE**  
titre du projet  
**FIRE ALARM UPGRADE**

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

designed by  
**P. BEAUBIEN**  
conçu par

drawn by  
**L. HONDERD**  
dessiné par

approved by  
**P. BEAUBIEN**  
approuvé par

PWOSC Project Manager / Administrateur de Projets TPSGC

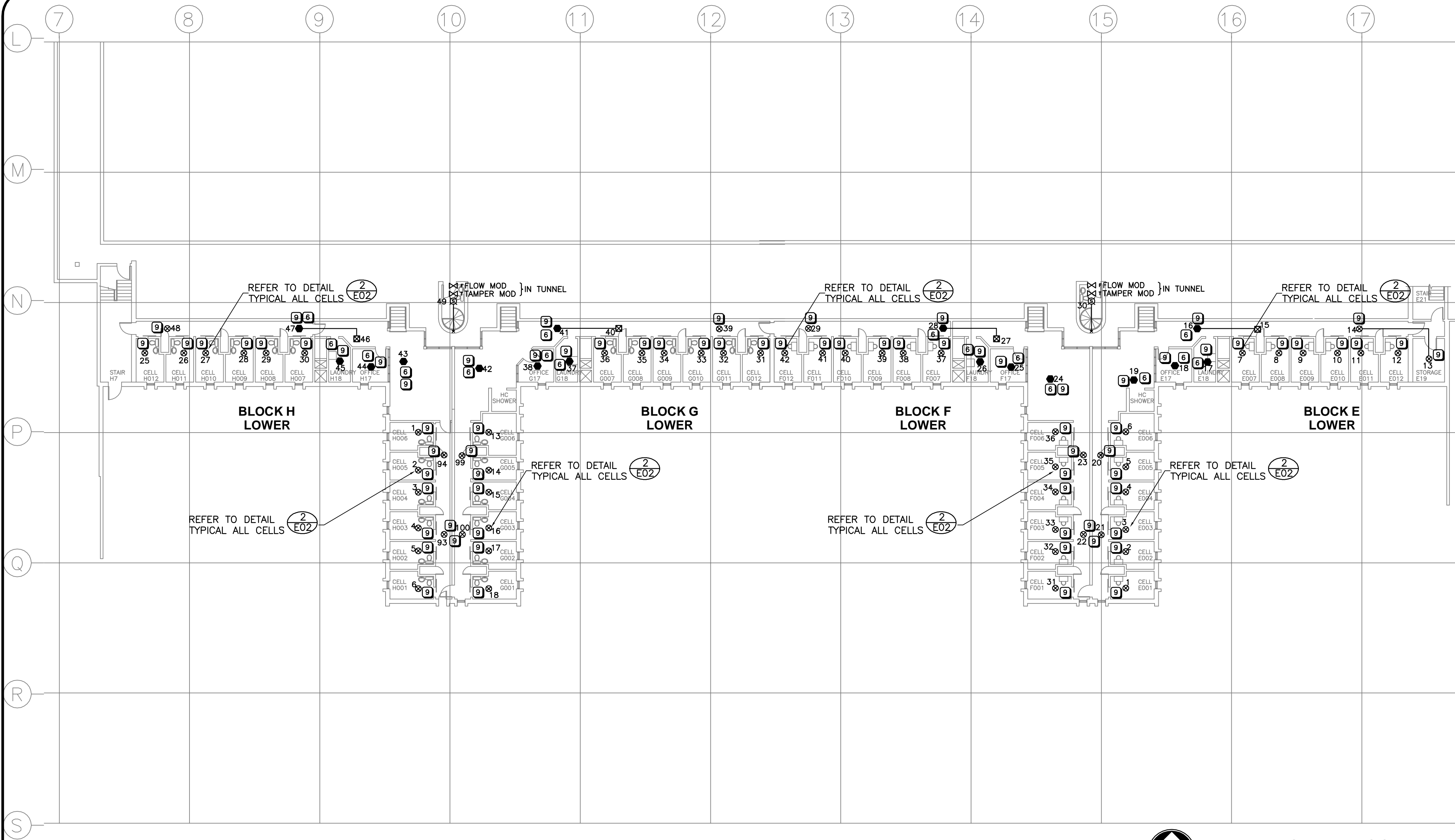
scale  
**AS NOTED**  
échelle

project no.  
**R.014522.001**  
projet no.

date  
**APRIL 17, 2013**  
date

**E03**

OF 17



PARTIAL LOWER FLOOR PLAN - FIRE ALARM

SCALE 1:200

KEYNOTES

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- 3 RECESSED INSTALLATION.
- 4 CHANGE FROM BELL TO HORN
- 5 NOT USED
- 6 CHANGE FROM HEAT DETECTOR TO SMOKE DETECTOR.
- 7 NOT USED
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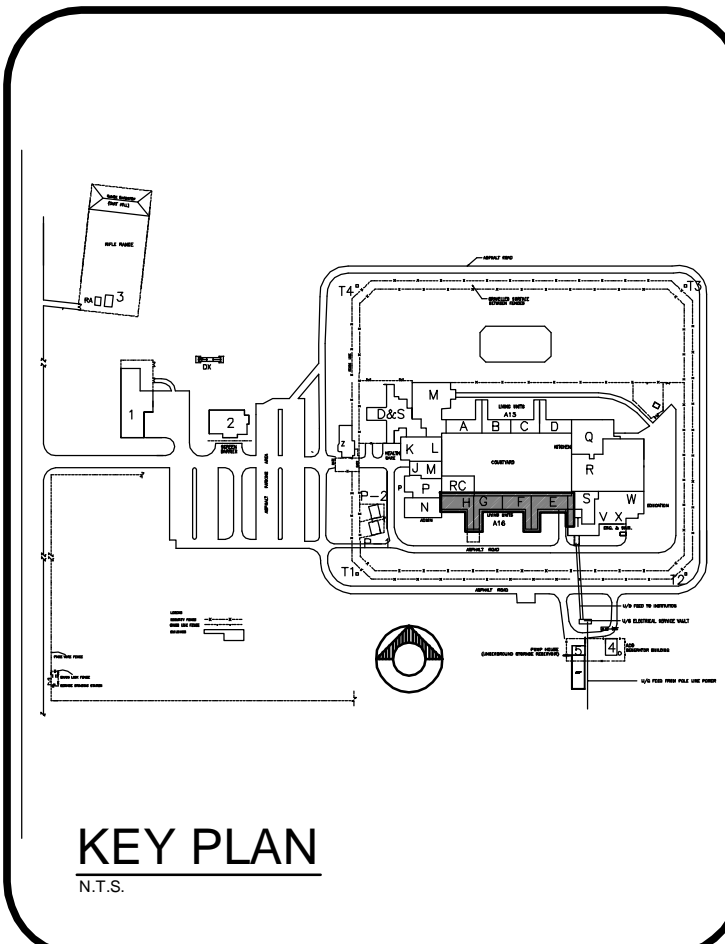
REAL PROPERTY SERVICES Western Region

Client CORRECTIONAL SERVICE CANADA

Client



Job #5783



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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	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  
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

PWOSC Project Manager Administrateur de Projets TPSCC

scale AS NOTED echelle sheet OF 17

project no. R.014522.001 projet no.  
date APRIL 17, 2013 date



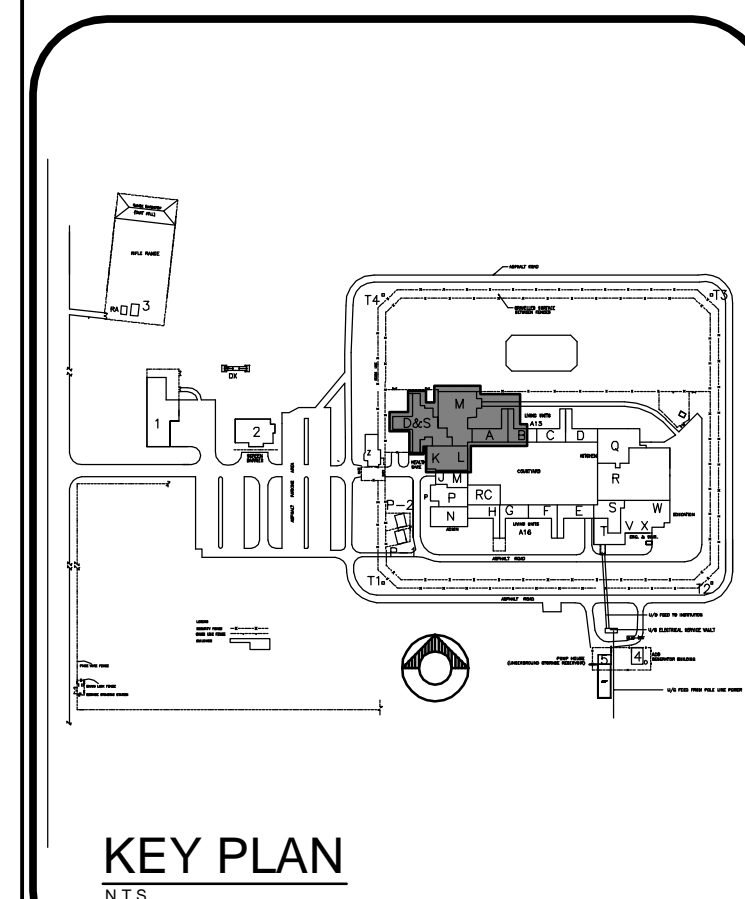
REAL PROPERTY SERVICES  
Western Region

Client  
**CORRECTIONAL SERVICE  
CANADA**

Client



Job #5783



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project title  
**EDMONTON MAXIMUM  
SECURITY  
INSTITUTE**

titre du projet

**FIRE ALARM UPGRADE**

drawing title  
**PARTIAL UPPER FLOOR PLAN  
MAIN BUILDING  
BLOCKS A/B/D/M/K/L & S**

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 TPWSC

scale  
AS NOTED

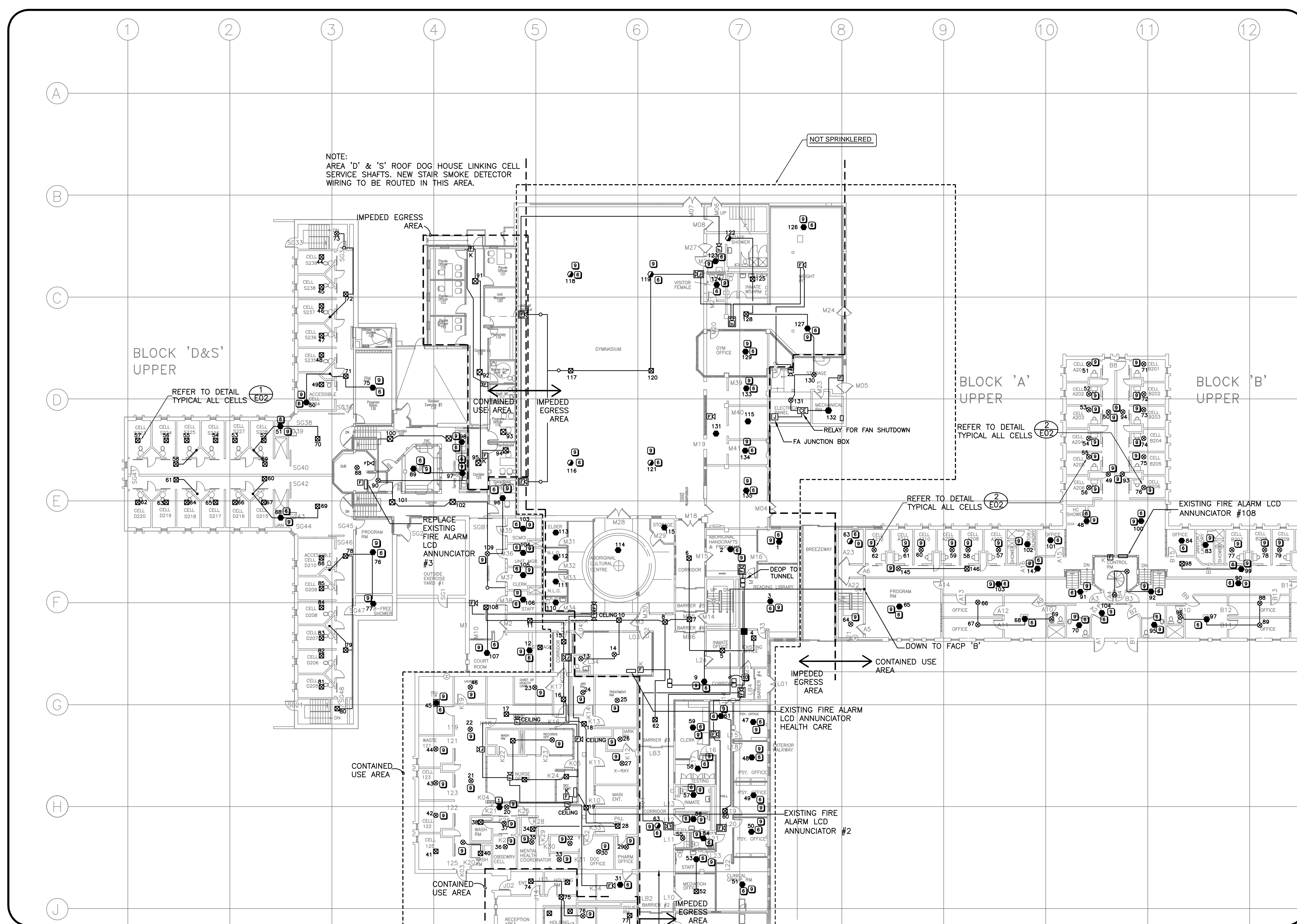
project no.  
**R.014522.001**

date  
**APRIL 17, 2013**

sheet  
E05

feuille  
OF 17

FOR CONTINUATION SEE DRAWING E06



FOR CONTINUATION SEE DRAWING E07

**KEYNOTES**

- 1 REMOVE AND BLANK OFF.
- 2 SURFACE INSTALLATION.
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- 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



**PARTIAL MAIN & UPPER FLOOR PLAN - FIRE ALARM**

SCALE 1:200

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

REAL PROPERTY SERVICES  
Western Region

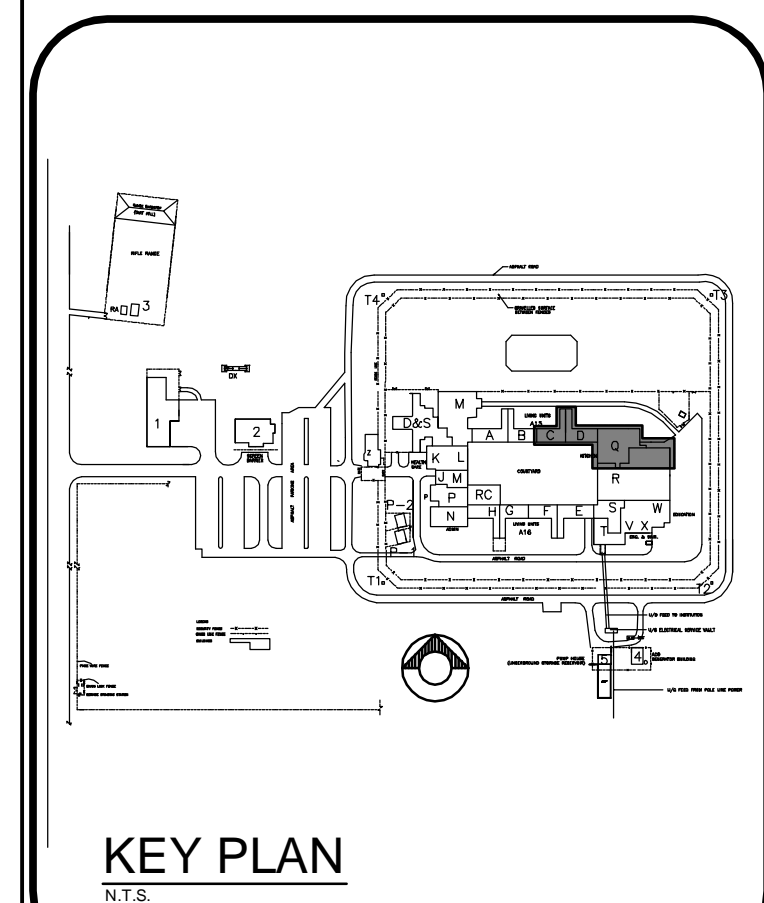
Client  
**CORRECTIONAL SERVICE  
CANADA**

Client

**beaubien glover maskell  
engineering**

Suite 400, 4408 - 42 Avenue  
Edmonton, Alberta, T6E 5V6  
Tel: 780-429-2266 Fax: 780-429-4466  
www.bgm.ca

Job #5783



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

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

designed by  
**P. BEAUBIEN**

drawn by  
**L. HONDERD**

approved by  
**P. BEAUBIEN**

PWSC Project Manager  
Administrateur de Projets TPSGC

scale  
**AS NOTED**

project no.  
**R.014522.001**

date  
**APRIL 17, 2013**

sheet  
**E06**

feuille  
**OF 17**

BLOCK 'B'  
UPPER

BLOCK 'C'  
UPPER

BLOCK 'D'  
UPPER

REFER TO DETAIL  
TYPICAL ALL CELLS

REFER TO DETAIL  
TYPICAL ALL CELLS

REFER TO DETAIL  
TYPICAL ALL CELLS

REFER TO DETAIL  
TYPICAL ALL CELLS

CONTAINED USE  
AREA

IMPEDED  
EGRESS  
AREA

IMPEDED  
EGRESS  
AREA

STAIRS TO UPPER LEVEL  
SEE DRAWING E11

EXISTING FIRE ALARM  
LCD ANNUNCIATOR  
#E108

FOR CONTINUATION SEE DRAWING E08



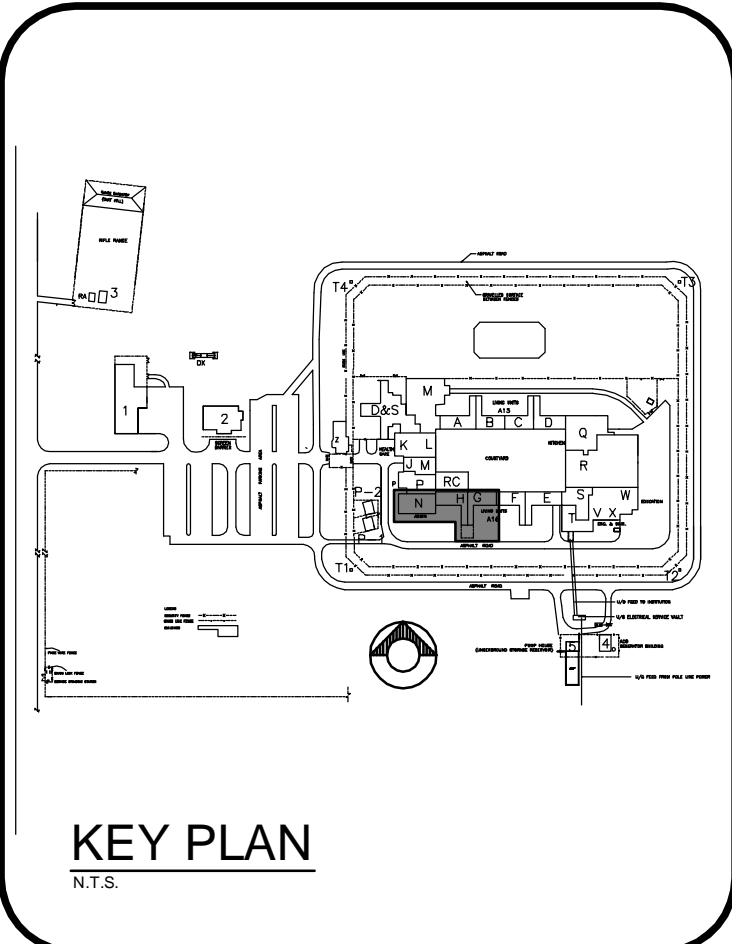
**PARTIAL MAIN & UPPER FLOOR PLAN - FIRE ALARM**

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<br>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<br>NOT LOCATE IN SERVICE SHAFT BUT INSTALL 2 PAIR<br>FROM EACH MONITORING ELEMENT TO FUTURE<br>TAMPER SWITCH LOCATION |

**ALL SPRINKLERED**



RECORD DRAWING

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REVISIONS	DESCRIPTION	DATE
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B	source drawing no.	
C	detail on drawing no.	

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

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

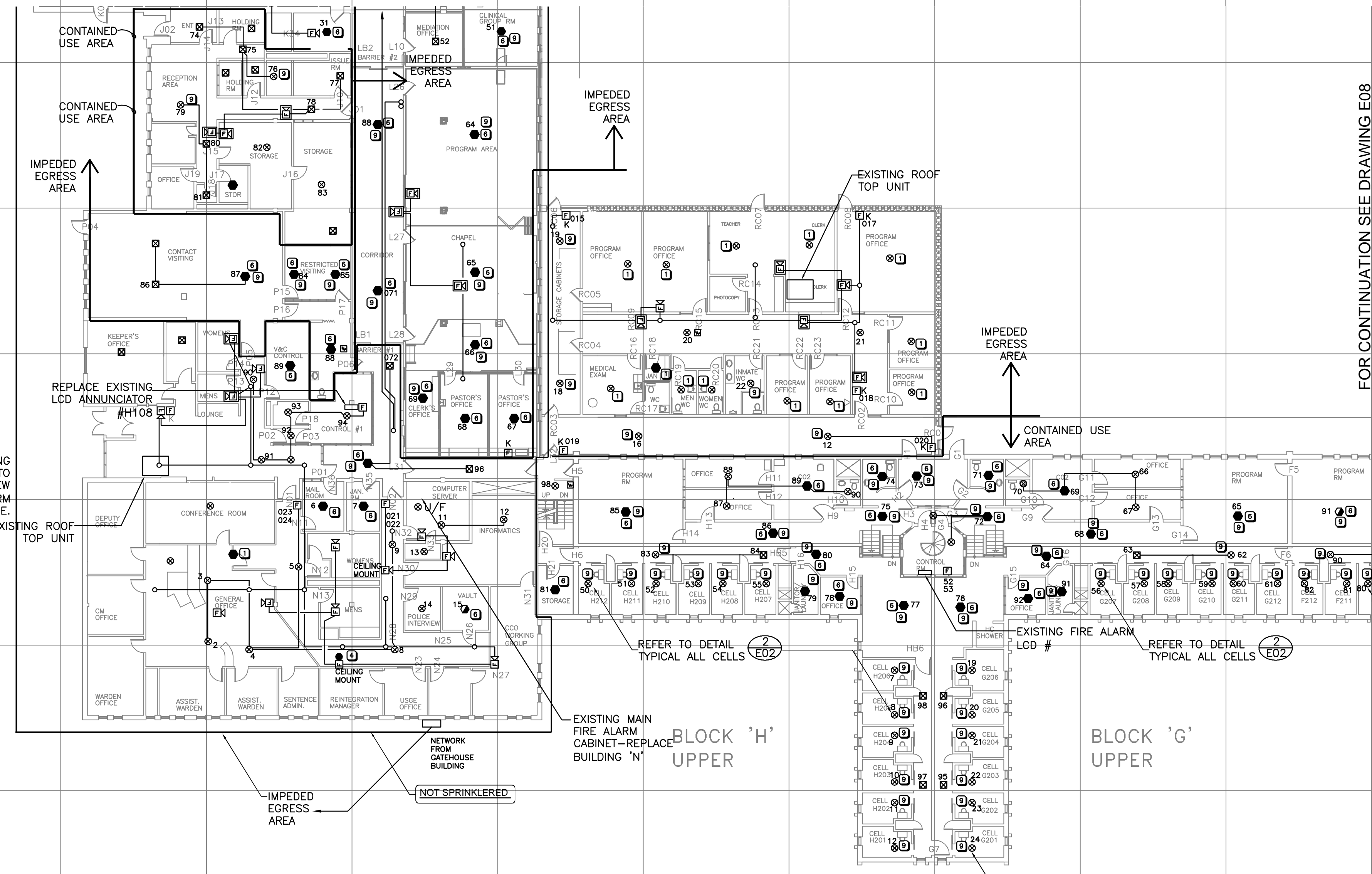
designed by	P. BEAUBIEN	conçu par
drawn by	L. HONDERD	dessiné par
approved by	P. BEAUBIEN	approuvé par
PWOSC Project Manager	Administrateur de Projets TPSGC	
scale	AS NOTED	feuille
project no.	R.014522.001	projet no.
date	APRIL 17, 2013	date

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

FOR CONTINUATION SEE DRAWING E05

FOR CONTINUATION SEE DRAWING E08

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

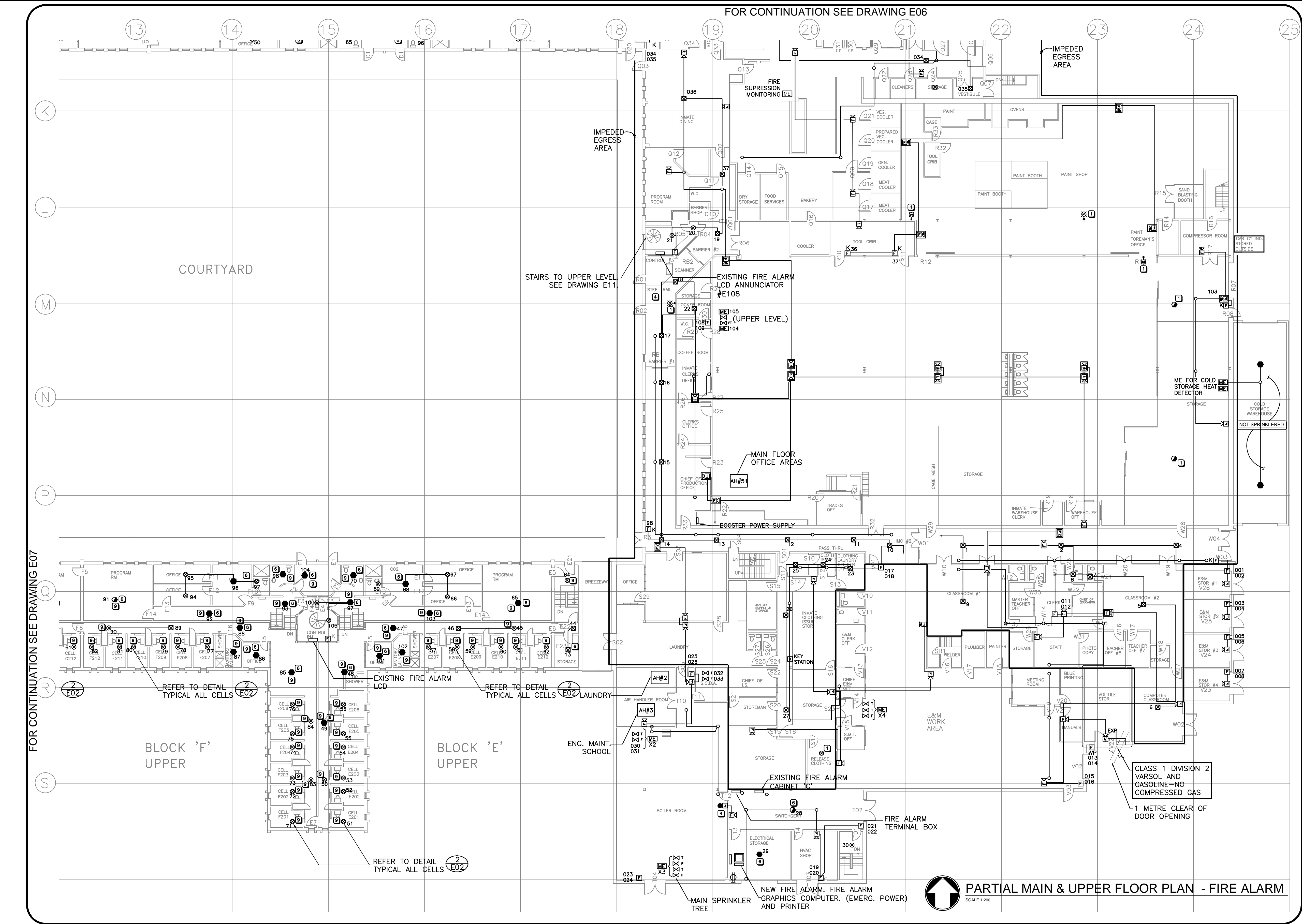


KEYNOTES

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





Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES  
Western Region

Client

CORRECTIONAL SERVICE CANADA

Client

Client

beaubien glover maskell engineering

Suite 400, 4408 - 42 Avenue  
Edmonton, Alberta, T6E 5V6  
Tel: 780-429-2266 Fax: 780-429-4466  
www.bgm.ca

Job #5783

KEY PLAN  
N.T.S.

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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.

A

B

C

C detail on drawing no.  
detail sur dessin no.

project title

EDMONTON MAXIMUM SECURITY INSTITUTE

titre du projet

drawing title

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

titre du dessin

designed by

P. BEAUBIEN

conçu par

drawn by

L. HONDERD

dessiné par

approved by

P. BEAUBIEN

approuvé par

PWOSC Project Manager

Administrateur de Projets TPSSC

scale

AS NOTED

échelle

sheet

feuille

project no.

R.014522.001

projet no.

date

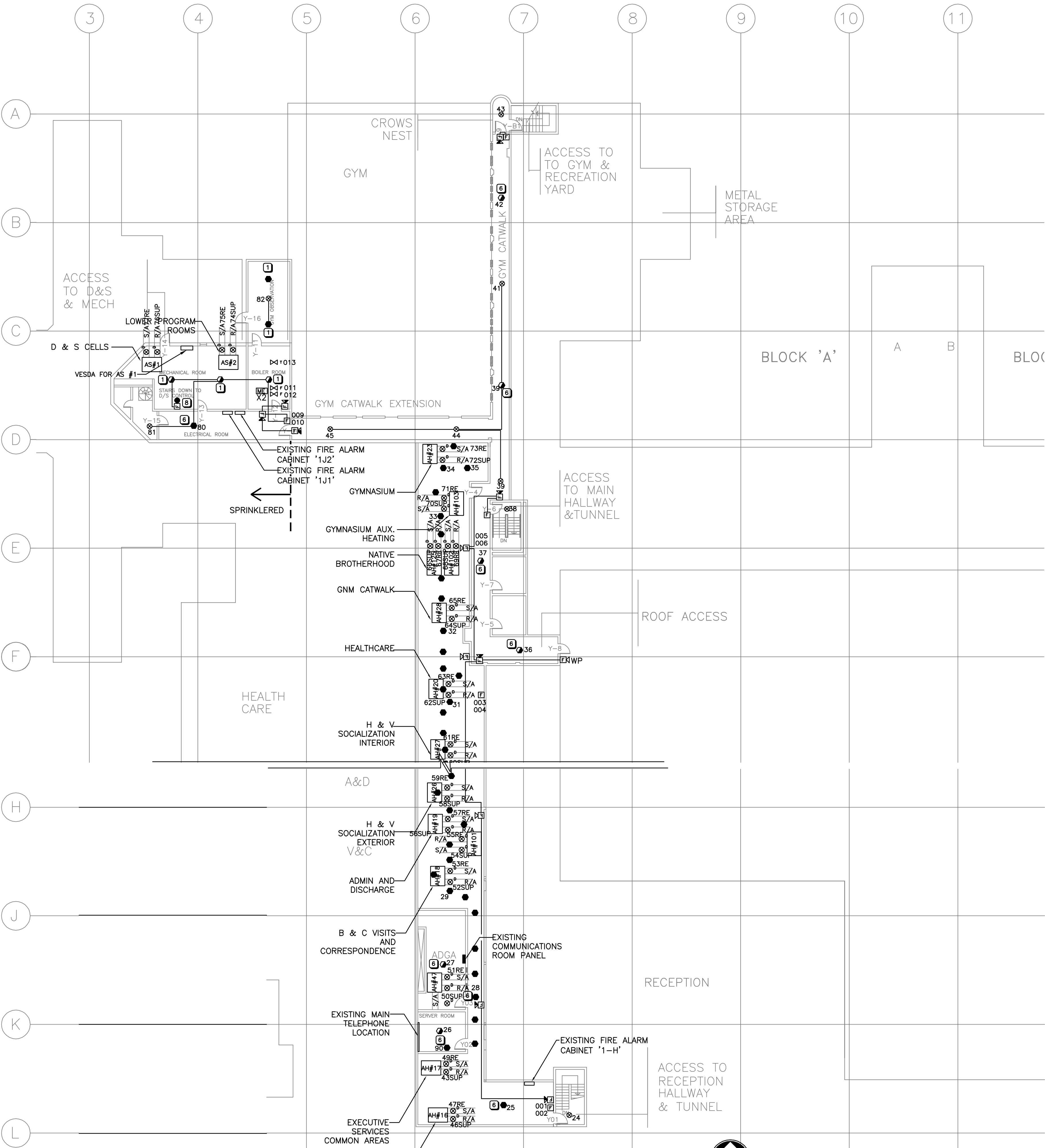
APRIL 17, 2013

date

E08

OF 17





FOR CONTINUATION-SEE DRAWING E11

### KEYNOTES

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- 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)

### REAL PROPERTY SERVICES Western Region

Client **CORRECTIONAL SERVICE CANADA**

Client

**beaubien glover maskell engineering**  
Suite 400, 4400 - 42 Avenue  
Edmonton, Alberta, T6E 5V6  
Tel: 780-426-2266 Fax: 780-426-4466  
www.bgm.ca  
Job #5783

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

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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**  
titre du projet  
**FIRE ALARM UPGRADE**

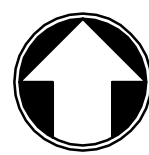
drawing title **PARTIAL UPPER FLOOR PLAN**  
titre du dessin  
**MAIN BUILDING**

designed by **P. BEAUBIEN** conçu par  
drawn by **L. HONDERD** dessiné par  
approved by **P. BEAUBIEN** approuvé par  
PWSC Project Manager Administrateur de Projets TPSCG

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

**NOT  
SPRINKLERED  
NOT CONTAINED  
USE**

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



## SCALE 1:200

APRIL 17, 2013

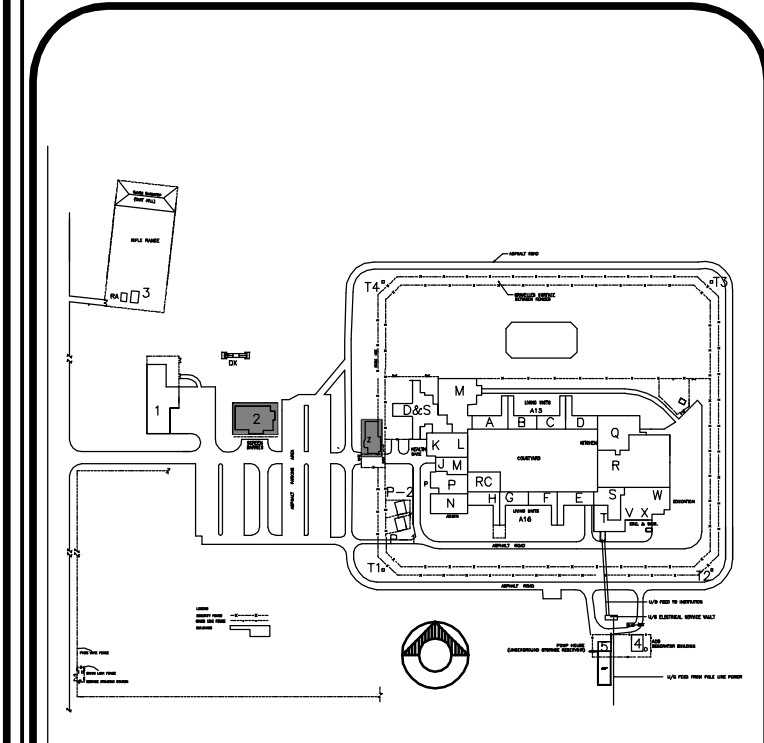


REAL PROPERTY SERVICES  
Western Region

Client  
**CORRECTIONAL SERVICE CANADA**

Client

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Suite #700, 4408 - 42 Avenue  
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www.bgm.ca  
Job #5783



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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**

drawn by  
**L. HONDERD**

approved by  
**P. BEAUBIEN**

PWOSC Project Manager  
Administrateur de Projets TPSSC

scale  
**AS NOTED**

project no.  
**R.014522.001**

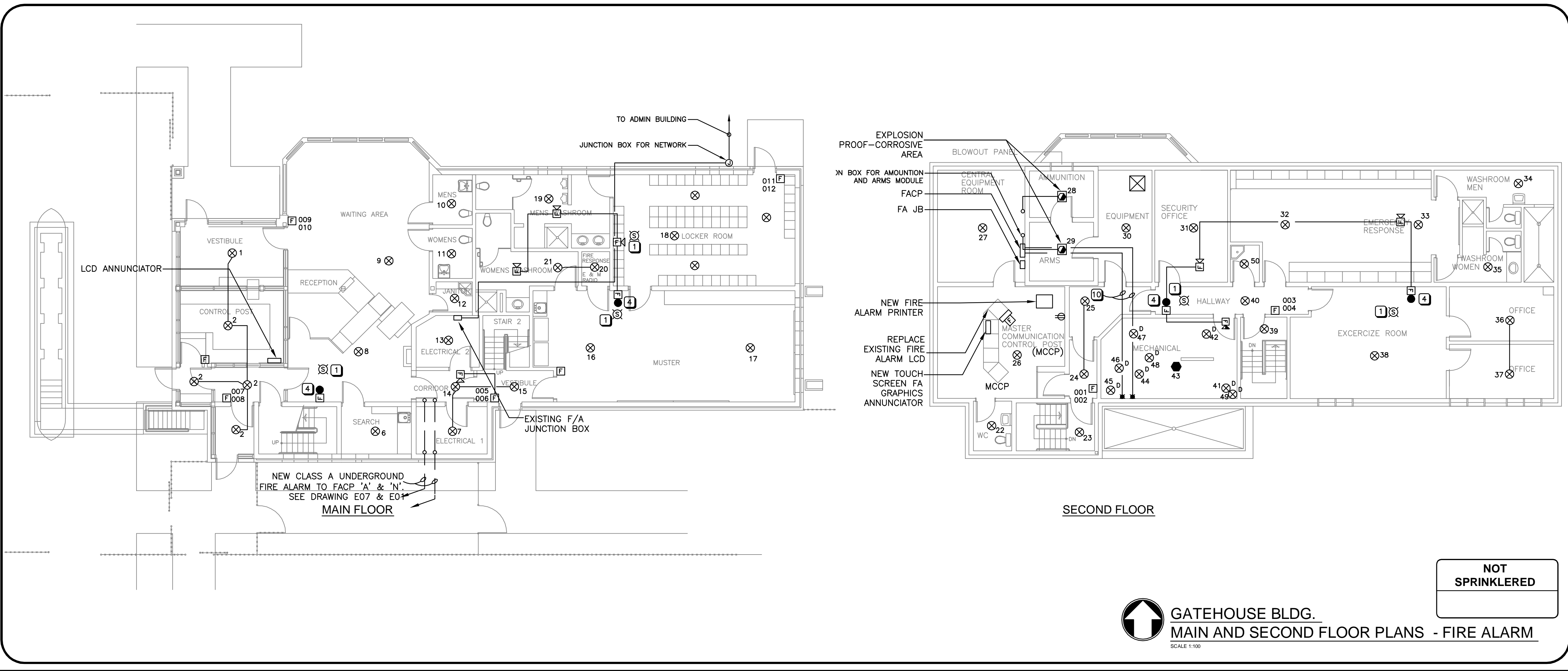
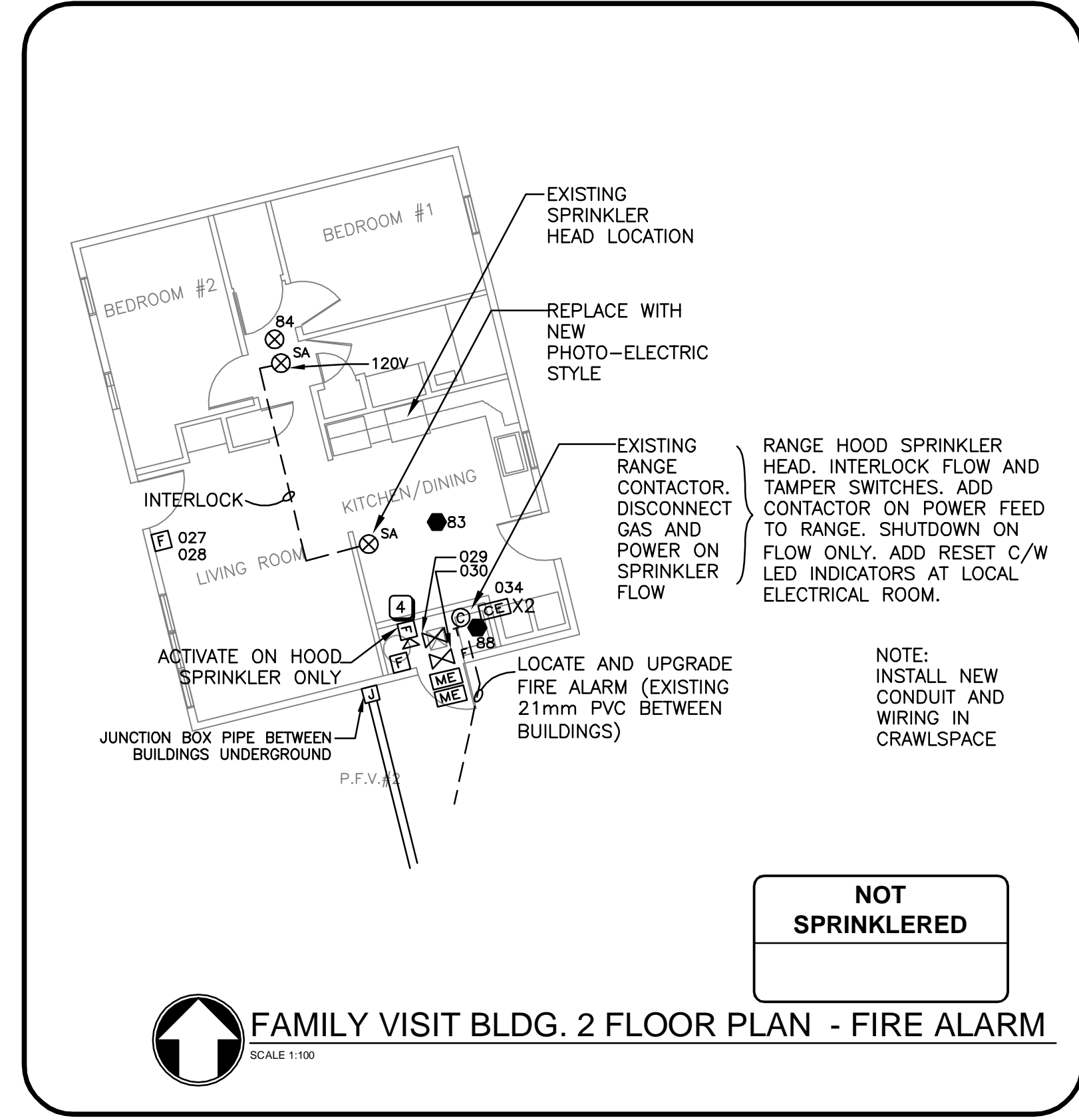
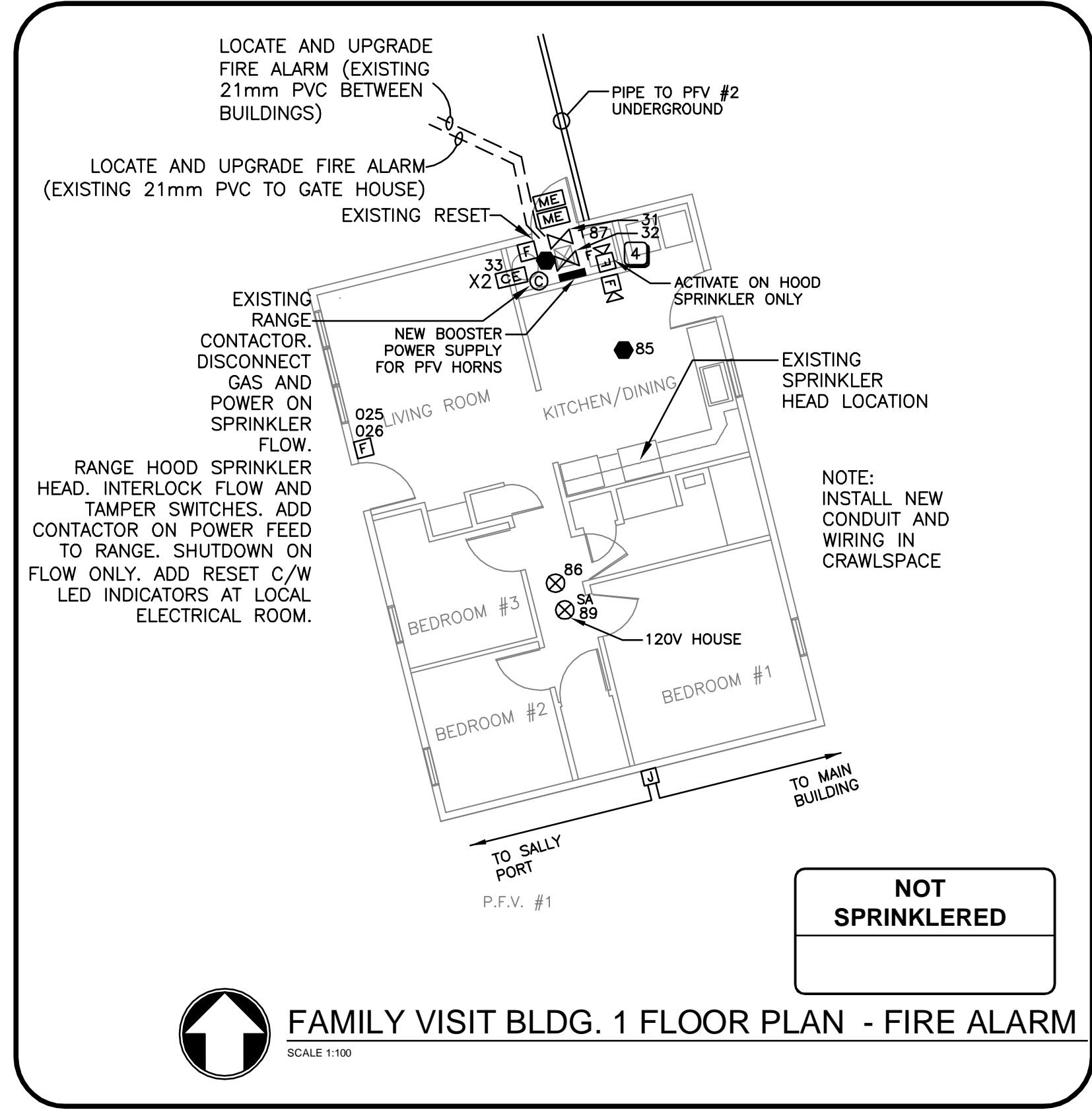
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**APRIL 17, 2013**

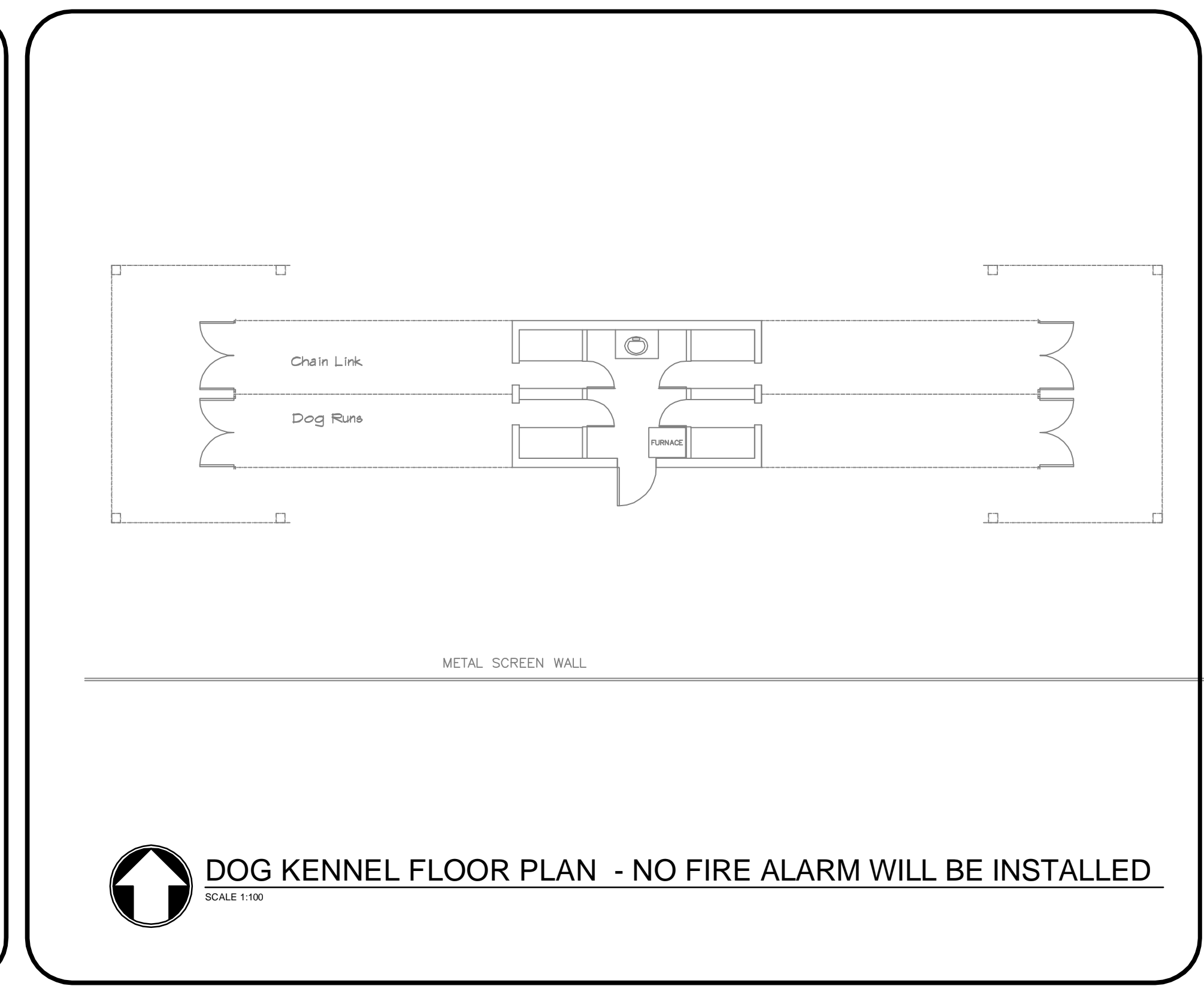
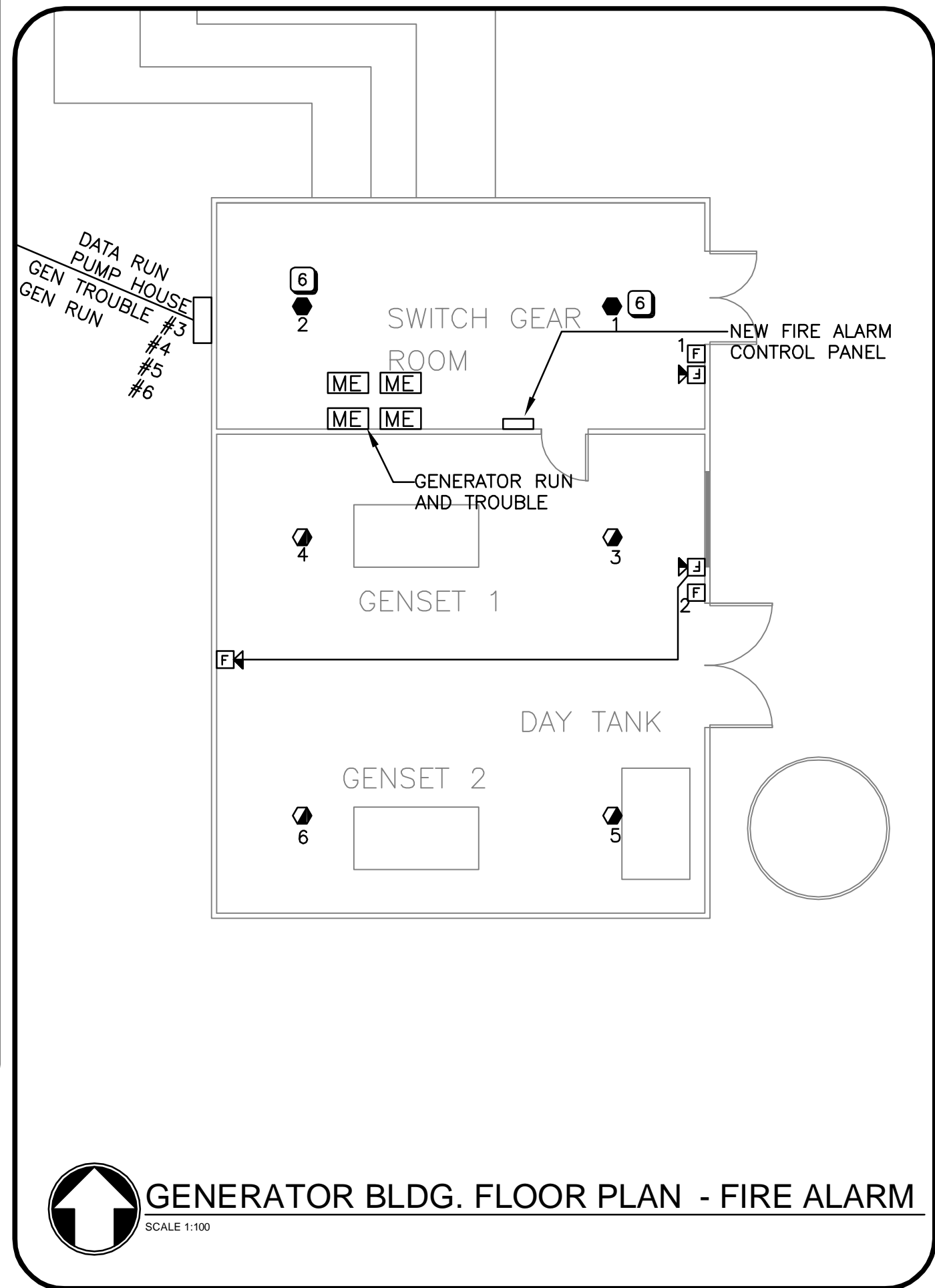
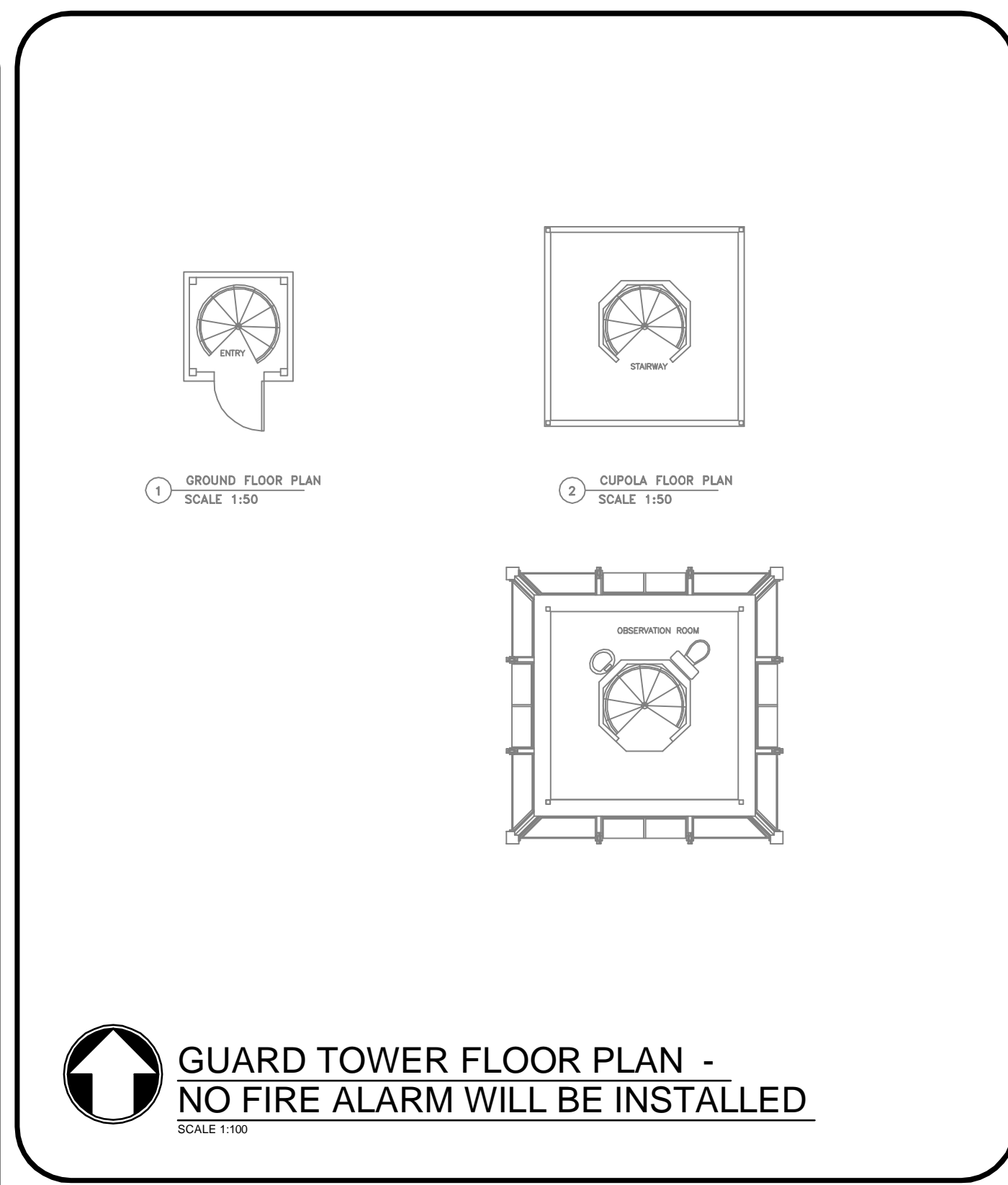
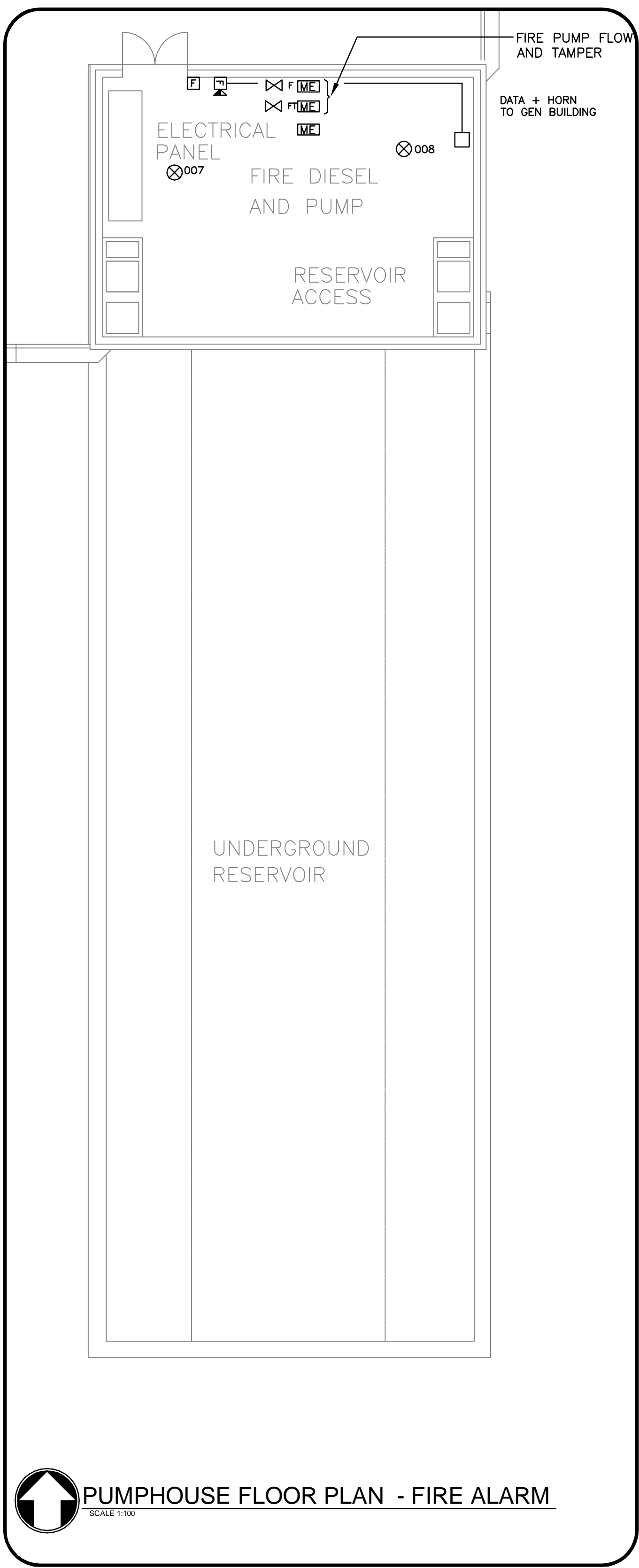
sheet  
**E12**

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





- KEYNOTES**
- 1 REMOVE AND BLANK OFF.
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  - 3 RECESSED INSTALLATION.
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Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

**REAL PROPERTY SERVICES**  
Western Region

Client

**CORRECTIONAL SERVICE CANADA**

Client

Client

Client

beaubien glover maskell engineering

Suite #700, 4408 - 42 Avenue  
Edmonton, Alberta, T6E 5V1  
Tel: 780-428-2266 Fax: 780-428-4466  
www.bgm.ca

Job #5783

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

**RECORD DRAWING**  
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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	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**

titre du projet

drawing title

**PUMPHOUSE/ GENERATOR/ GUARD TOWERS/ DOG KENNEL BUILDINGS**

titre du dessin

designed by

P. BEAUBIEN

conçu par

drawn by

L. HONDERD

dessiné par

approved by

P. BEAUBIEN

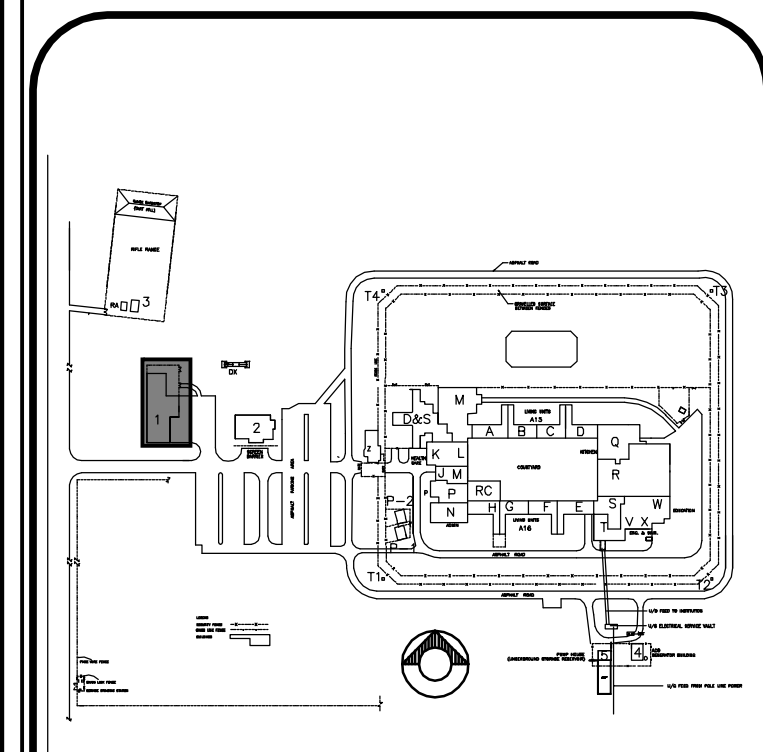
approuvé par

PWOSC Project Manager

Administrateur de Projets TPSGC

scale	AS NOTED	echelle	sheet	feuille
project no.	R.014522.001	project no.		
date	APRIL 17, 2013	date		

**E13**  
OF 17



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

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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

**WAREHOUSE BUILDING  
MAIN & MEZZANINE  
FLOORS**

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 TPWSC

scale

AS NOTED

échelle

sheet

project no.

R.014522.001

feuille

date

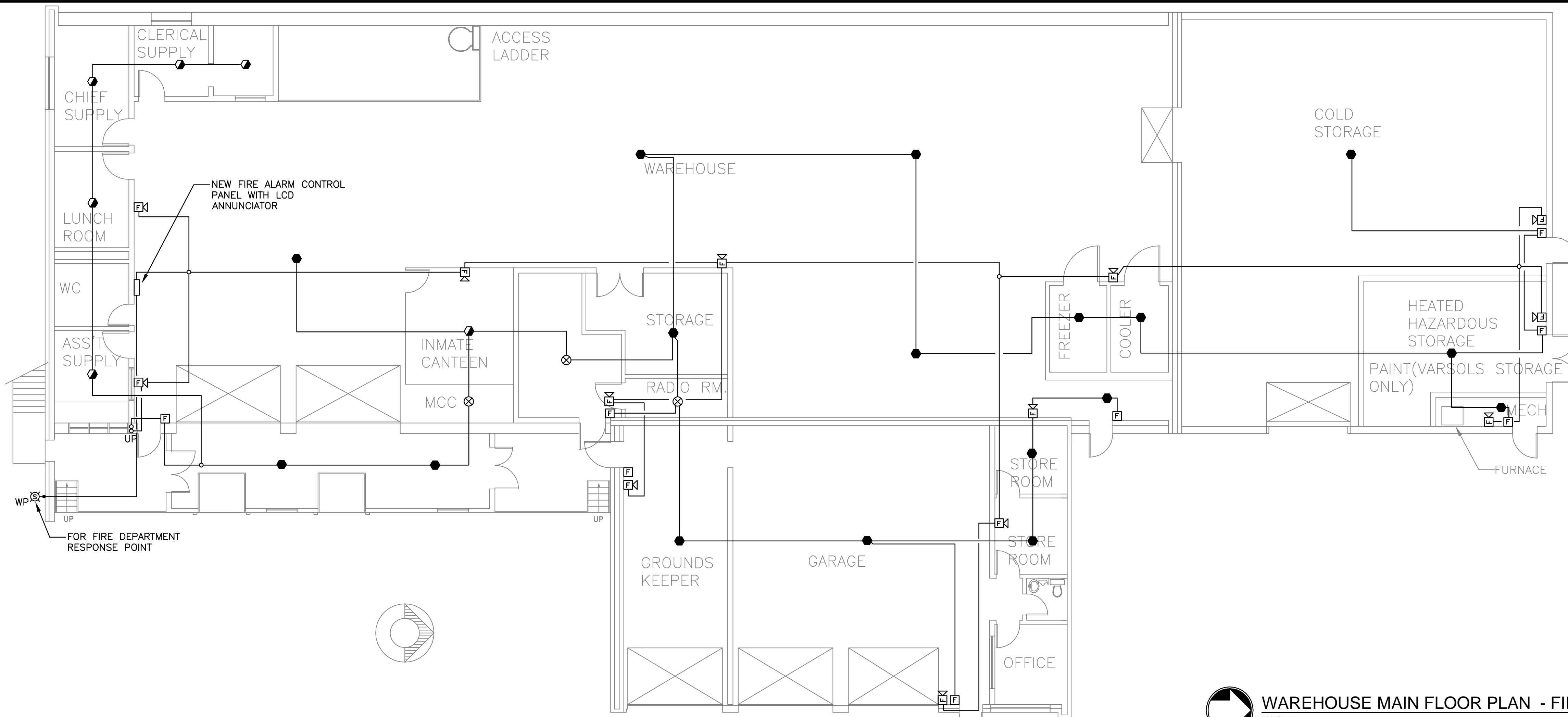
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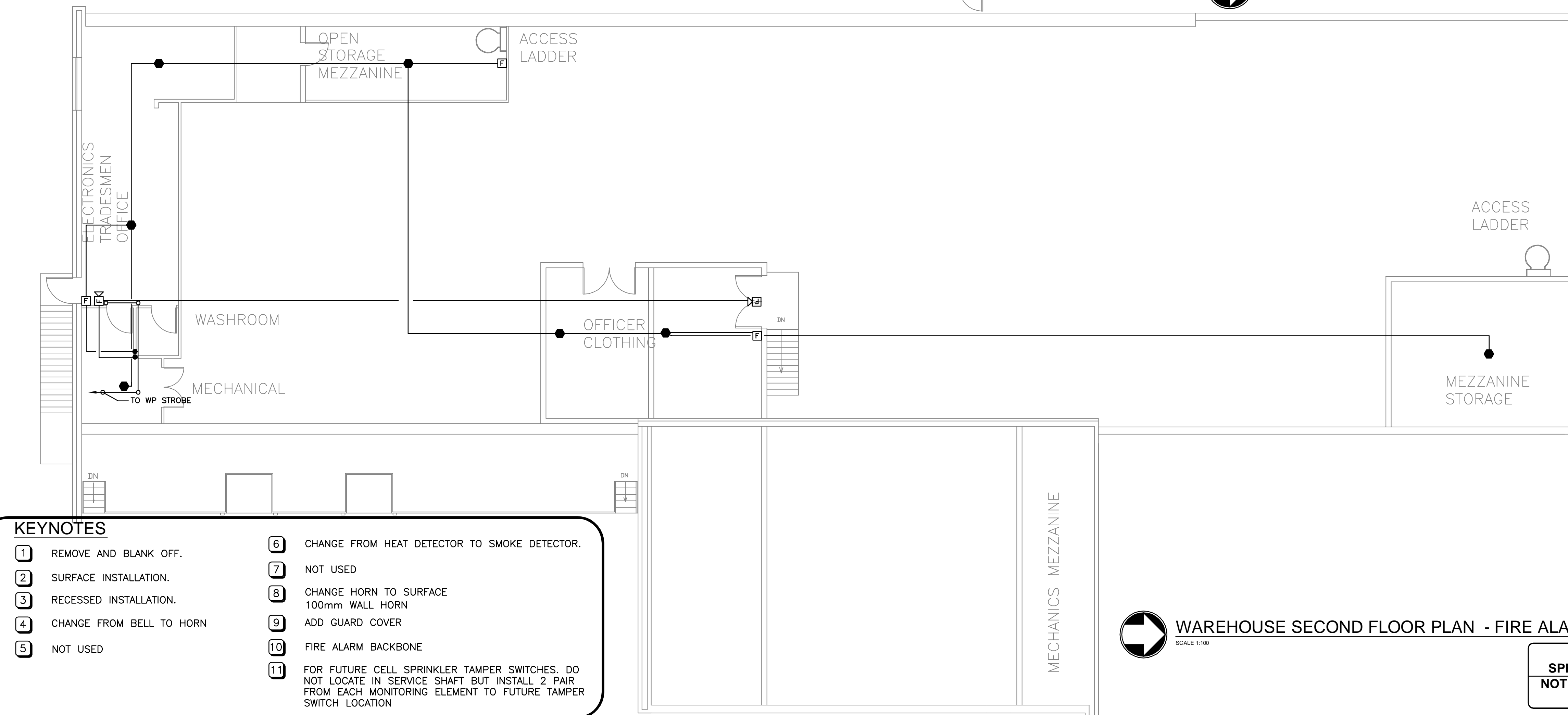
**E14**

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.

2

SURFACE INSTALLATION.
- 3
- RECESSED INSTALLATION.

4

5

6

CHANGE FROM HEAT DETECTOR TO SMOKE DETECTOR.

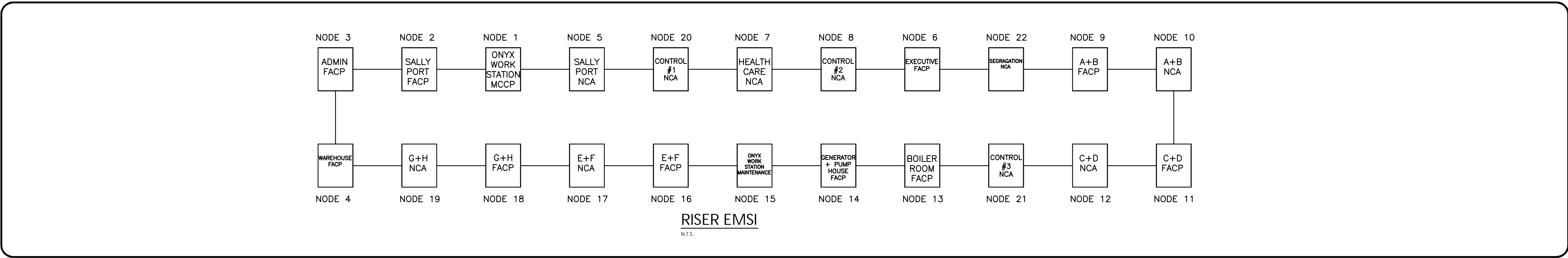
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Public Works and  
Government Services  
Canada


Travaux publics et  
Services gouvernementaux  
Canada

REAL PROPERTY SERVICES  
Western Region

Client

CORRECTIONAL SERVICE  
CANADA

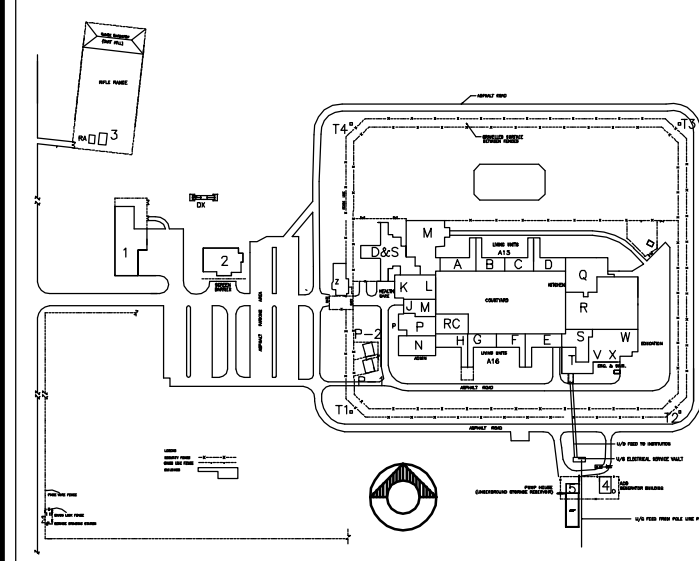
Client



beaubien glover maskell  
engineering

Suite #700, 4608 - 42 Avenue  
Edmonton, Alberta, T6E 5V6  
Tel: 780-426-2266 Fax: 780-426-4466  
www.bgm.ca

Job #5783



KEY PLAN  
N.T.S.

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A detail number  
number du detail

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B

C

B source drawing no.  
de dessin no.

A

B

C

C detail on drawing no.  
detail sur dessin no.

project title

EDMONTON MAXIMUM  
SECURITY  
INSTITUTE  
  
FIRE ALARM UPGRADE

titre du projet

drawing title

FIRE ALARM  
RISER

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

echelle

sheet

feuille

project no.

R.014522.001

project no.

date

APRIL 17, 2013

date

E15

OF 17

A1

841 x 594

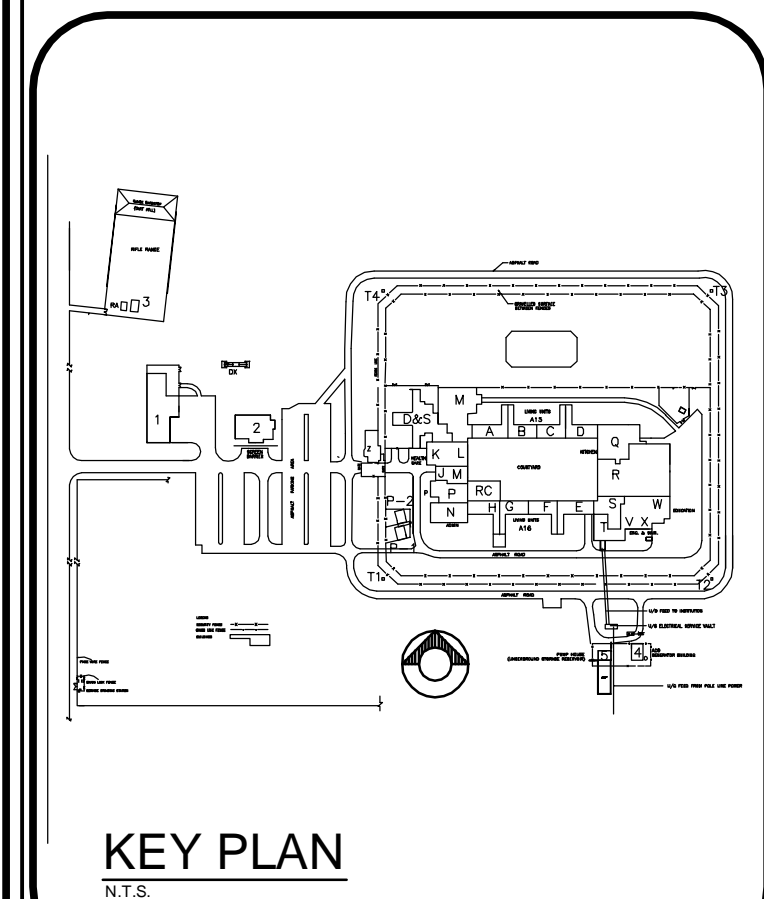


REAL PROPERTY SERVICES  
Western Region

CORRECTIONAL SERVICE  
CANADA

Client

beaubien glover maskell  
engineering  
Suite 400 - 444 - 42 Avenue  
Edmonton, Alberta, T6E 5V6  
Tel: 780-426-2266 Fax: 780-426-4466  
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EDMONTON MAXIMUM  
SECURITY  
INSTITUTE  
FIRE ALARM UPGRADE

drawing title

OVERALL BLOCK  
DIAGRAM  
FLOOR PLAN F/A  
ZONES AND F/A  
SHUTDOWN  
INFORMATION ONLY

designed by P. BEAUBIEN  
drawn by L. HONDERD  
approved by P. BEAUBIEN  
PWSC Project Manager Administrateur de Projets TPSCC

scale	echelle	sheet	feuille
AS NOTED			
project no. R.014522.001	project no.		
date APRIL 17, 2013	date		

E16  
OF 17

NOTES:

- EXISTING F/A INITIATING ZONE CCTS, BELL CCTS, 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.
- 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, CONTROLS 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.

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A detail no. du detail	B location drawing no. sur dessin no.	C drawing no. dessin no.

project EDMONTON, ALBERTA  
MAXIMUM SECURITY  
INSTITUTE

AS-BUILT 95/03/31  
CANADIAN PENITENTIARY SERVICE

drawing overall block  
diagram

PROVISION OF CELL SMOKE  
DETECTORS AND UPGRADING  
OF FIRE ALARM CONTROL  
SYSTEM

DESIGNED CONCU  
DATE Y.K. & M.H.

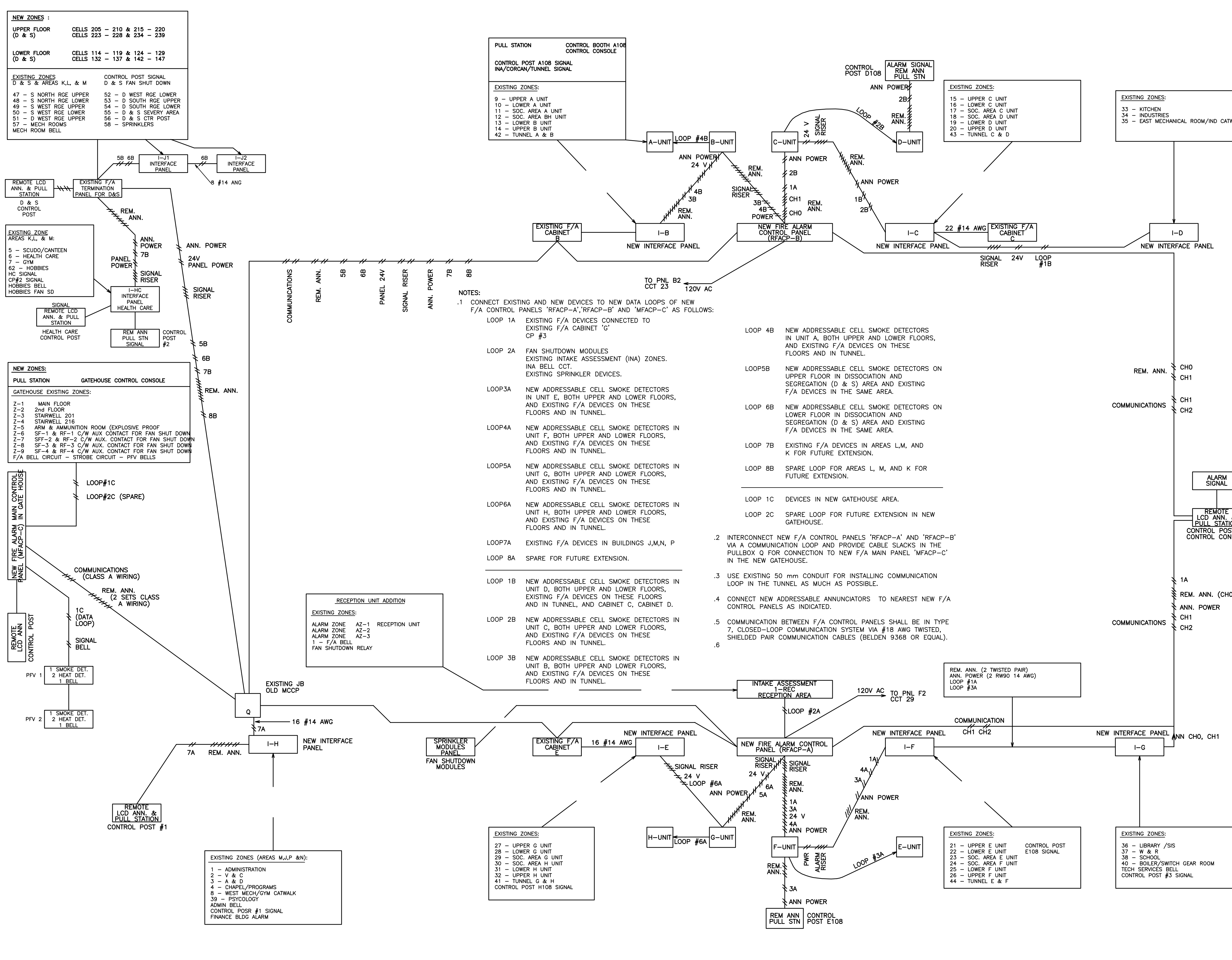
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DATE SDE FEB. 15, 1994

APPROVED APPROUVÉ  
DATE

TENDER SOUMISSION  
PWC PROJECT MANAGER  
PROJECT NUMBER NO. DU PROJET  
625921

DRAWING NUMBER NO. DU DESSIN  
SHEET 11 of 12

INFORMATION ONLY



NEW ZONES:	CELLS
UPPER FLOOR (D & S)	205 - 210 & 215 - 220
LOWER FLOOR (D & S)	114 - 119 & 124 - 129
EXISTING ZONES D & S & AREAS K,L & M	132 - 137 & 142 - 147

EXISTING ZONES	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	

NEW ZONES:	GATEHOUSE CONTROL CONSOLE
PULL STATION	GATEHOUSE EXISTING ZONES:
2-1 MAIN FLOOR	2-2 2nd FLOOR
2-3 STAIRWELL 201	2-4 STAIRWELL 216
2-5 ARM & AMMUNITION ROOM (EXPLOSIVE PROOF)	2-6 SF-1 & RF-1 C/W AUX. CONTACT FOR FAN SHUT DOWN
2-7 SF-2 & RF-2 C/W AUX. CONTACT FOR FAN SHUT DOWN	2-8 SF-3 & RF-3 C/W AUX. CONTACT FOR FAN SHUT DOWN
2-9 SF-4 & RF-4 C/W AUX. CONTACT FOR FAN SHUT DOWN	1-1 F/A BELL CIRCUIT - STROBE CIRCUIT - PFV BELLS

NEW FIRE ALARM MAIN CONTROL PANEL (W/AC-C) IN GATE HOUSE	EXISTING ZONES (AREAS M,J,P & N):
1 SMOKE DET.	1 - ADMINISTRATION
2 HEAT DET.	2 - V & C
1 BELL	3 - A & D
	4 - CHAPEL/PROGRAMS
	8 - WEST MECH/GYM CATWALK
	39 - PSYCHOLOGY ADMIN BELL
	CONTROL POSTR #1 SIGNAL
	FINANCE BLDG ALARM

NEW FIRE ALARM MAIN CONTROL PANEL (W/AC-C) IN GATE HOUSE	EXISTING ZONES:
1 SMOKE DET.	9 - UPPER A UNIT
2 HEAT DET.	10 - LOWER A UNIT
1 BELL	11 - SOC. AREA A UNIT
	12 - SOC. AREA B UNIT
	13 - LOWER B UNIT
	14 - UPPER B UNIT
	42 - TUNNEL A & B

NEW FIRE ALARM MAIN CONTROL PANEL (W/AC-C) IN GATE HOUSE	EXISTING ZONES:
1 SMOKE DET.	15 - UPPER C UNIT
2 HEAT DET.	16 - LOWER C UNIT
1 BELL	17 - SOC. AREA C UNIT
	18 - SOC. AREA D UNIT
	19 - LOWER D UNIT
	20 - UPPER D UNIT
	43 - TUNNEL C & D

NEW FIRE ALARM MAIN CONTROL PANEL (W/AC-C) IN GATE HOUSE	EXISTING ZONES:
1 SMOKE DET.	33 - KITCHEN
2 HEAT DET.	34 - INDUSTRIES
1 BELL	35 - EAST MECHANICAL ROOM/IND CATWALK

NEW FIRE ALARM MAIN CONTROL PANEL (W/AC-C) IN GATE HOUSE	EXISTING ZONES:
1 SMOKE DET.	21 - UPPER E UNIT
2 HEAT DET.	22 - LOWER E UNIT
1 BELL	23 - SOC. AREA E UNIT
	24 - SOC. AREA F UNIT
	25 - LOWER F UNIT
	26 - UPPER F UNIT
	44 - TUNNEL E & F

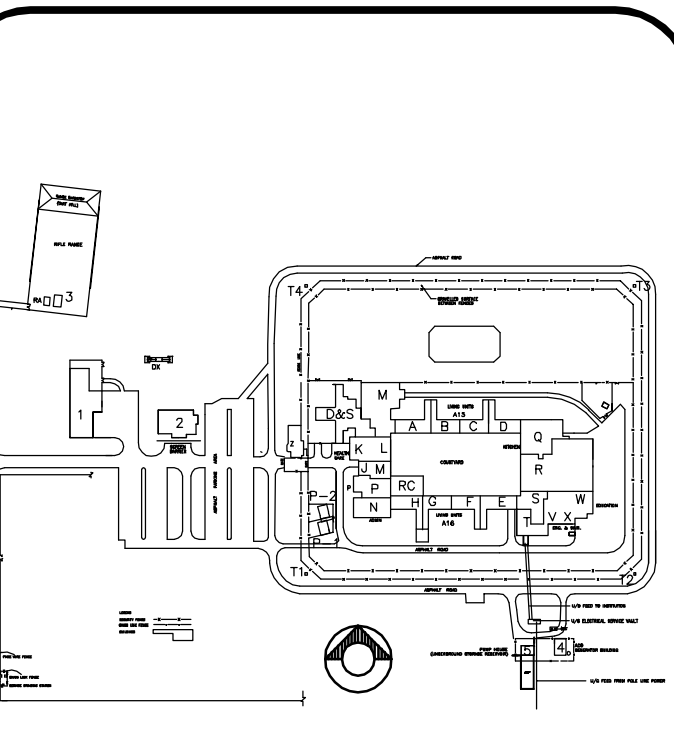
NEW FIRE ALARM MAIN CONTROL PANEL (W/AC-C) IN GATE HOUSE	EXISTING ZONES:
1 SMOKE DET.	36 - LIBRARY /SIS
2 HEAT DET.	37 - W & R
1 BELL	38 - SCHOOL
	40 - BOILER/SWITCH GEAR ROOM
	TECH SERVICES BELL
	CONTROL POST #3 SIGNAL

REAL PROPERTY SERVICES  
Western Region

CORRECTIONAL SERVICE  
CANADA



Job #5783



KEY PLAN  
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EDMONTON MAXIMUM  
SECURITY  
INSTITUTE  
FIRE ALARM UPGRADE

drawing title titre du dessin

OVERALL BLOCK  
DIAGRAM  
FLOOR PLAN F/A  
ZONES AND F/A  
SHUTDOWN  
INFORMATION ONLY

designed by P. BEAUBIEN conçu par

drawn by L. HONDERD dessiné par

approved by P. BEAUBIEN approuvé par

PWOSC Project Manager Administrateur de Projets TPSGC

scale AS NOTED échelle sheet feuille

project no. R.014522.001 projet no.

date APRIL 17, 2013 date

E17  
OF 17

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2 CONTRACTOR SHALL IDENTIFY AND VERIFY ALL EXISTING F/A AND CONTROL CIRCUITS. DRAWINGS WILL BE MADE AVAILABLE BY PWOSC 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 CCTS, 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.

CAD FILE: \825921\25921-10

revision	date
A	
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project EDMONTON, ALBERTA  
MAXIMUM SECURITY  
INSTITUTE  
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. CONCU

DATE DATE

DRAWN SDE FEB. 15, 1994

APPROVED APPROUVÉ

DATE

TENDER SOUMISSION

PWOC PROJECT MANAGER

PROJECT NUMBER NO. DU PROJET

625921

DRAWING NUMBER NO. DU DESSIN

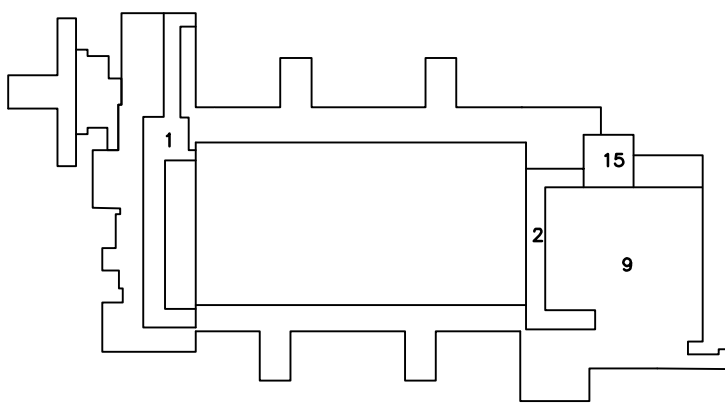
SHEET 10 of 12

AIR HANDLER, FIRE ALARM SHUTDOWN CODING

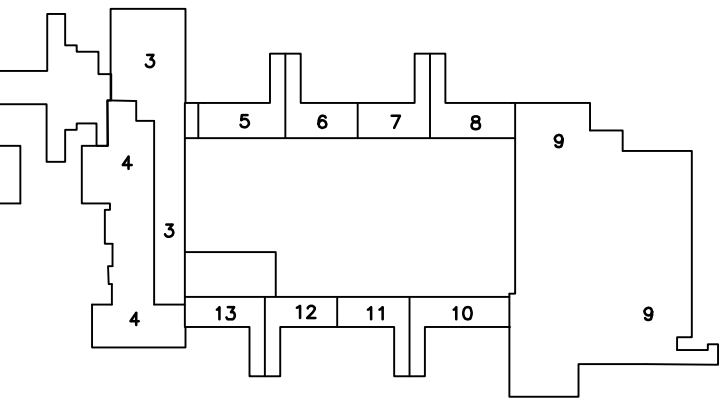
Z1	UPPER LEVEL WEST	A.H. 16,17,18,19,20,21,22,23,24, 25,26,27,28,44,45,46,47
Z2	UPPERLEVEL EAST	A.H. 32
Z3	GYM & HALL MAIN FLOOR	A.H. 23,24,25,26,27,39,40,41,42
Z4	MAIN FLOOR WEST OF HALL	A.H. 16,17,18,19,20,21,22,25,44, 45,46
Z5	A UNIT	A.H. 13,14,35
Z6	B UNIT	A.H. 13,14,35
Z7	C UNIT	A.H. 10,11,36
Z8	D UNIT	A.H. 10,11,36
Z9	INDUSTRIES AREA	A.H. 48,49,50,51
Z10	E UNIT	A.H. 4,5,38
Z11	F UNIT	A.H. 4,5,38
Z12	G UNIT	A.H. 7,8,37
Z13	H UNIT	A.H. 7,8,37
Z14	COMPLETE TUNNEL	A.H. 4,5,6,7,8,9,10,11,12,13,14,15
Z15	EAST MECH. ROOM	A.H. 29,30,31,32,FAN 81
Z16	KITCHEN & DINING ROOM	A.H. 29,30,31
Z17	LAUNDRY AREA	A.H. 2
Z18	TECH. SERVICES	A.H. 3

AH 2	A	217
AH 3	A	218
AH 4	A	210 211 214
AH 5	A	210 211 214
AH 6	A	214
AH 7	A	212 213 214
AH 8	A	212 213 214
AH 9	A	214
AH 10	A	27 28 214
AH 11	A	27 28 214
AH 12	A	214
AH 13	A	25 26 214
AH 14	A	25 26 214
AH 15	A	214
AH 16, 17, 18, 19, 20, 21, 22, 25, 44, 45, 46	A	21 24
AH 23, 24, 26, 27	A	21 23
AH 28	A	21
AH 29, 30, 31	A	216 215
AH 32	A	22 215
AH 35	A	25 26
AH 36	A	27 28
AH 37	A	212 213
AH 38	A	210 211
AH 39, 40, 41, 42	A	23
AH 47	A	21
AH 48, 49, 50, 51	A	29
FAN 81	A	215

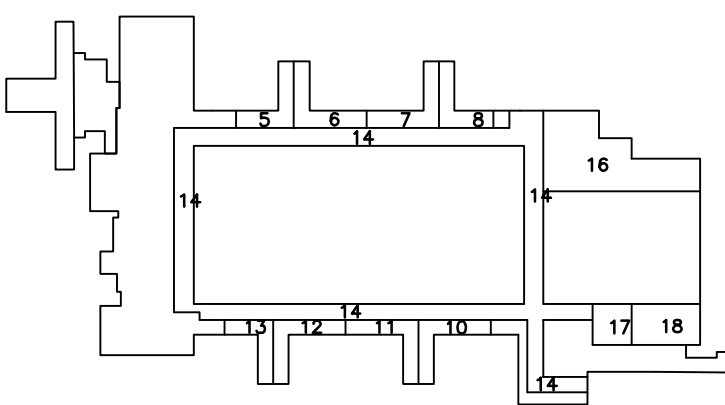
AIR HANDLER FIRE ALARM SHUTDOWN SCHEMATIC



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 - SCHOOL
- 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

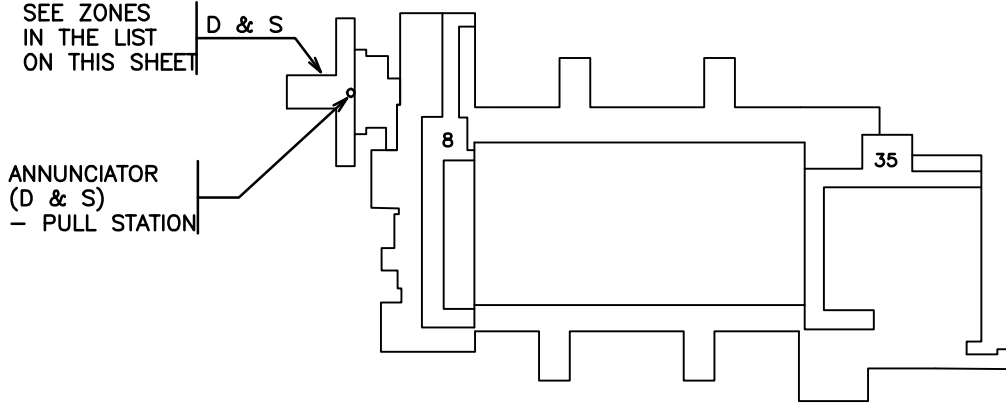
REMOTE ANNUNCIATORS & PULL STATIONS:

- 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

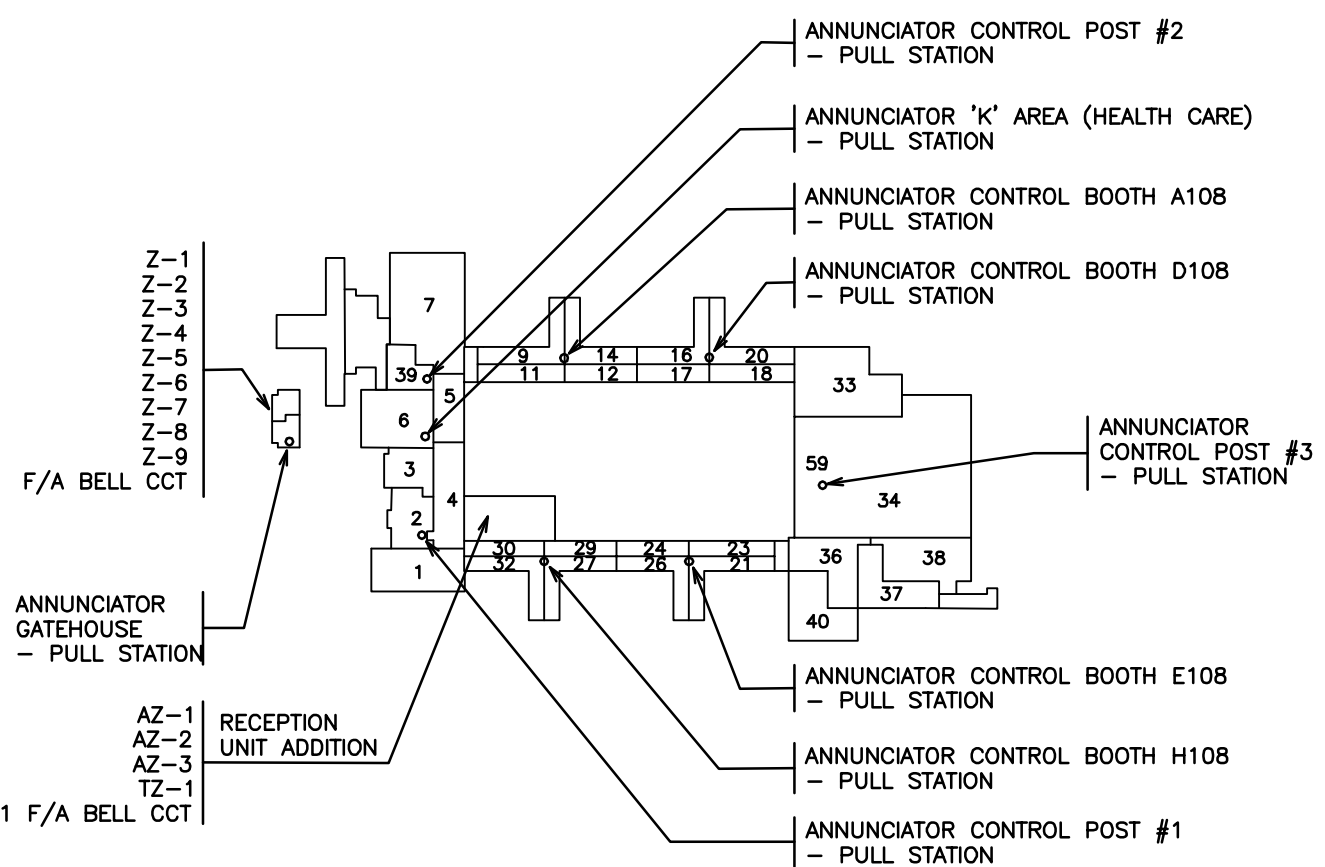
GATE HOUSE ENTRANCE

OTHER BELL CCTS:

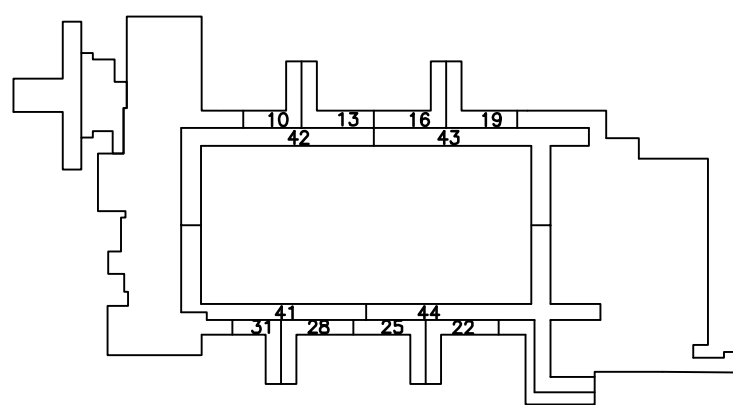
- AREA 'Q' - 1
- AREA 'R' - 1
- AREA 'W' - 1
- AREA 'N' - 1
- TUNNEL - 4 (BUZZER)



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.