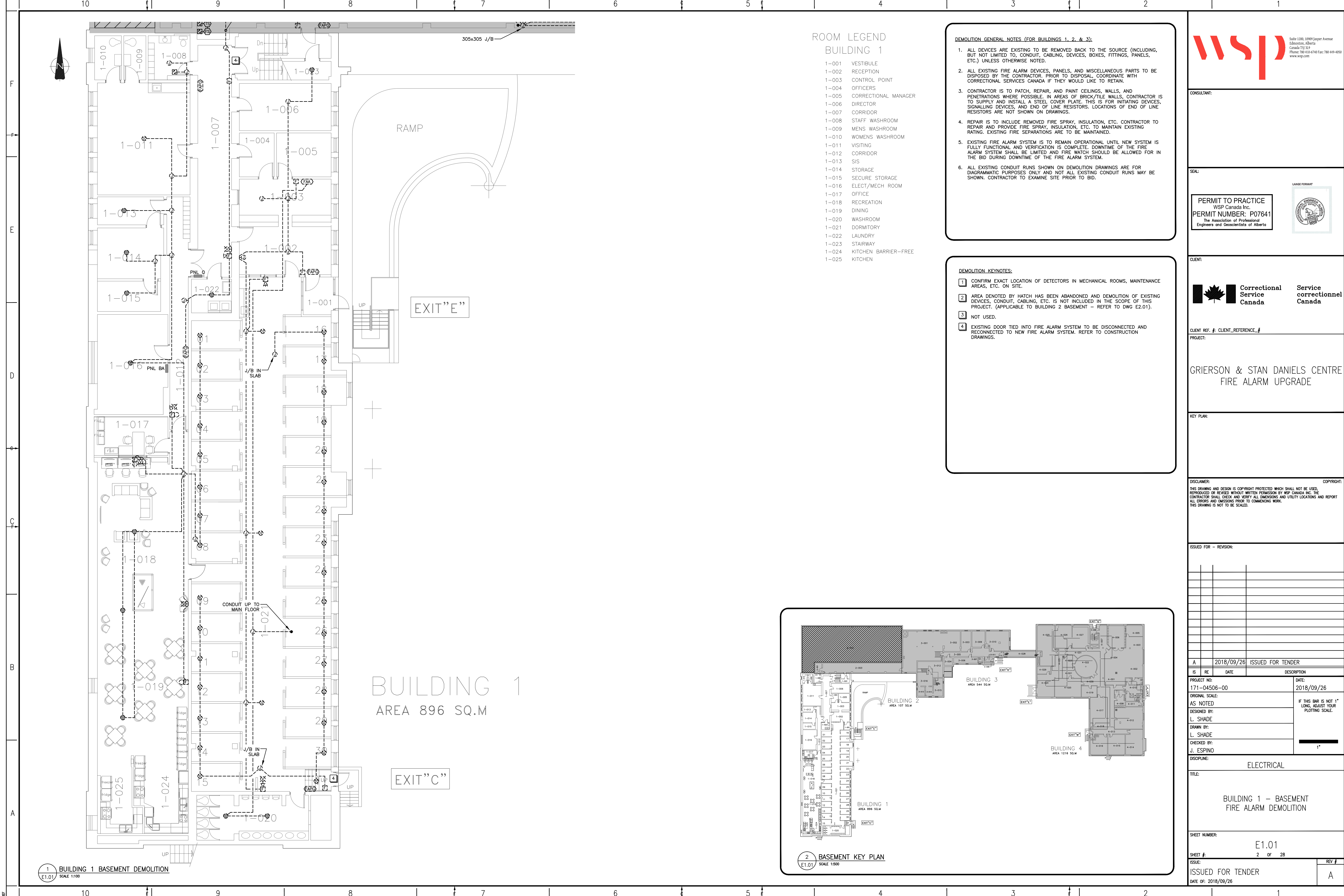




SYMBOL LEGEND	
SYMBOL	DESCRIPTION
FIRE ALARM	
	MANUAL FIRE ALARM PULL STATION
	SMOKE DETECTOR
	SMOKE DETECTOR C/W LOCAL ALARM
	DUCT DETECTOR
	HEAT DETECTOR – FIXED TEMPERATURE
	HEAT DETECTOR – RATE OF RISE
	HEAT DETECTOR – HIGH HEAT
	END OF LINE RESISTOR
	FIRE ALARM BELL
	FIRE ALARM BELL WITH VISUAL ALARM
	FIRE ALARM HORN
	FIRE ALARM HORN WITH VISUAL ALARM
	VISUAL ALARM – WALL MOUNTED
	VISUAL ALARM – CEILING MOUNTED
	FIRE ALARM EXTERIOR BEACON
	FIRE PHONE OUTLET
	FLOW SWITCH
	PRESSURE SWITCH
	TAMPER SWITCH
	GATE VALVE
	FIRE ALARM MONITORING ELEMENT
	FIRE ALARM CONTROL ELEMENT
	FIRE ALARM INITIATING MODULE
	FIRE ALARM CONTROL RELAY
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR
	FIRE ALARM ACTIVE GRAPHIC
	FIRE ALARM PASSIVE GRAPHIC
	FIRE ALARM BOOSTER POWER SUPPLY
	FIRE ALARM EMERGENCY PROCEDURE SIGN
	MOTOR STARTER
	WALL MOUNTED 'FIRE DO NOT ENTER' BILINGUAL ILLUMINATED SIGN
	CEILING MOUNTED 'FIRE DO NOT ENTER' BILINGUAL ILLUMINATED SIGN
CONDUIT AND JUNCTION BOXES	
	JUNCTION BOX
	CONDUIT
	HOME RUN
NOTES, LINES, AND ABBREVIATIONS	
	DRAWING KEYNOTE
	LINE TYPE AND WEIGHT INDICATE CONSTRUCTION
	LINE TYPE AND WEIGHT INDICATE EXISTING
	LINE TYPE AND WEIGHT INDICATE DEMOLITION
BO	BLANK OFF EXISTING DEVICE
WP	WEATHER PROOF
R	TO BE REMOVED
RL	EXISTING TO BE RELOCATED
F	FUTURE DEVICE

				Suite 1200, 10909 Jasper Avenue Edmonton, Alberta Canada T5J 3L9 Phone: 780-410-8740 Fax: 780-449-4050 www.wsp.com	
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PROJECT:					
GRIERSON & STAN DANIELS CENTRE FIRE ALARM UPGRADE					
KEY PLAN:					
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ORIGINAL SCALE: AS NOTED			IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTting SCALE. 1"		
DESIGNED BY: L. SHADE					
DRAWN BY: L. SHADE					
CHECKED BY: J. ESPINO					
DISCIPLINE: ELECTRICAL					
TITLE:					
FIRE ALARM LEGEND & KEY PLAN					
SHEET NUMBER:					
E0.01					
1 OF 28					
SHEET #:					
ISSUE:					
ISSUED FOR TENDER					
DATE OF: 2018/09/26					
					REV # A



ROOM LEGEND
BUILDING 1

- 1-001 VESTIBULE
- 1-002 RECEPTION
- 1-003 CONTROL POINT
- 1-004 OFFICERS
- 1-005 CORRECTIONAL MANAGER
- 1-006 DIRECTOR
- 1-007 CORRIDOR
- 1-008 STAFF WASHROOM
- 1-009 MENS WASHROOM
- 1-010 WOMENS WASHROOM
- 1-011 VISITING
- 1-012 CORRIDOR
- 1-013 SIS
- 1-014 STORAGE
- 1-015 SECURE STORAGE
- 1-016 ELECT/MECH ROOM
- 1-017 OFFICE
- 1-018 RECREATION
- 1-019 DINING
- 1-020 WASHROOM
- 1-021 DORMITORY
- 1-022 LAUNDRY
- 1-023 STAIRWAY
- 1-024 KITCHEN BARRIER-FREE
- 1-025 KITCHEN

DEMOLITION GENERAL NOTES (FOR BUILDINGS 1, 2, & 3):

- ALL DEVICES ARE EXISTING TO BE REMOVED BACK TO THE SOURCE (INCLUDING, BUT NOT LIMITED TO, CONDUIT, CABLING, DEVICES, BOXES, FITTINGS, PANELS, ETC.) UNLESS OTHERWISE NOTED.
- ALL EXISTING FIRE ALARM DEVICES, PANELS, AND MISCELLANEOUS PARTS TO BE DISPOSED BY THE CONTRACTOR. PRIOR TO DISPOSAL, COORDINATE WITH CORRECTIONAL SERVICES CANADA IF THEY WOULD LIKE TO RETAIN.
- CONTRACTOR IS TO PATCH, REPAIR, AND PAINT CEILINGS, WALLS, AND PENETRATIONS WHERE POSSIBLE. IN AREAS OF BRICK/TILE WALLS, CONTRACTOR IS TO SUPPLY AND INSTALL A STEEL COVER PLATE. THIS IS FOR INITIATING DEVICES, SIGNALLING DEVICES, AND END OF LINE RESISTORS. LOCATIONS OF END OF LINE RESISTORS ARE NOT SHOWN ON DRAWINGS.
- REPAIR IS TO INCLUDE REMOVED FIRE SPRAY, INSULATION, ETC. CONTRACTOR TO REPAIR AND PROVIDE FIRE SPRAY, INSULATION, ETC. TO MAINTAIN EXISTING RATING. EXISTING FIRE SEPARATIONS ARE TO BE MAINTAINED.
- EXISTING FIRE ALARM SYSTEM IS TO REMAIN OPERATIONAL UNTIL NEW SYSTEM IS FULLY FUNCTIONAL AND VERIFICATION IS COMPLETE. DOWNTIME OF THE FIRE ALARM SYSTEM SHALL BE LIMITED AND FIRE WATCH SHOULD BE ALLOWED FOR IN THE BID DURING DOWNTIME OF THE FIRE ALARM SYSTEM.
- ALL EXISTING CONDUIT RUNS SHOWN ON DEMOLITION DRAWINGS ARE FOR DIAGRAMMATIC PURPOSES ONLY AND NOT ALL EXISTING CONDUIT RUNS MAY BE SHOWN. CONTRACTOR TO EXAMINE SITE PRIOR TO BID.

DEMOLITION KEYNOTES:

- CONFIRM EXACT LOCATION OF DETECTORS IN MECHANICAL ROOMS, MAINTENANCE AREAS, ETC. ON SITE.
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- NOT USED.
- EXISTING DOOR TIED INTO FIRE ALARM SYSTEM TO BE DISCONNECTED AND RECONNECTED TO NEW FIRE ALARM SYSTEM. REFER TO CONSTRUCTION DRAWINGS.



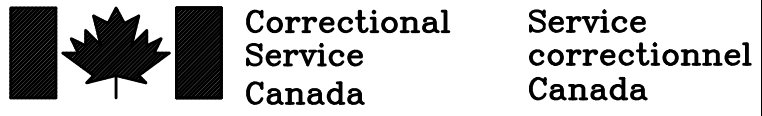
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The Association of Professional
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PROJECT:

GRIERSON & STAN DANIELS CENTRE
FIRE ALARM UPGRADE

KEY PLAN:

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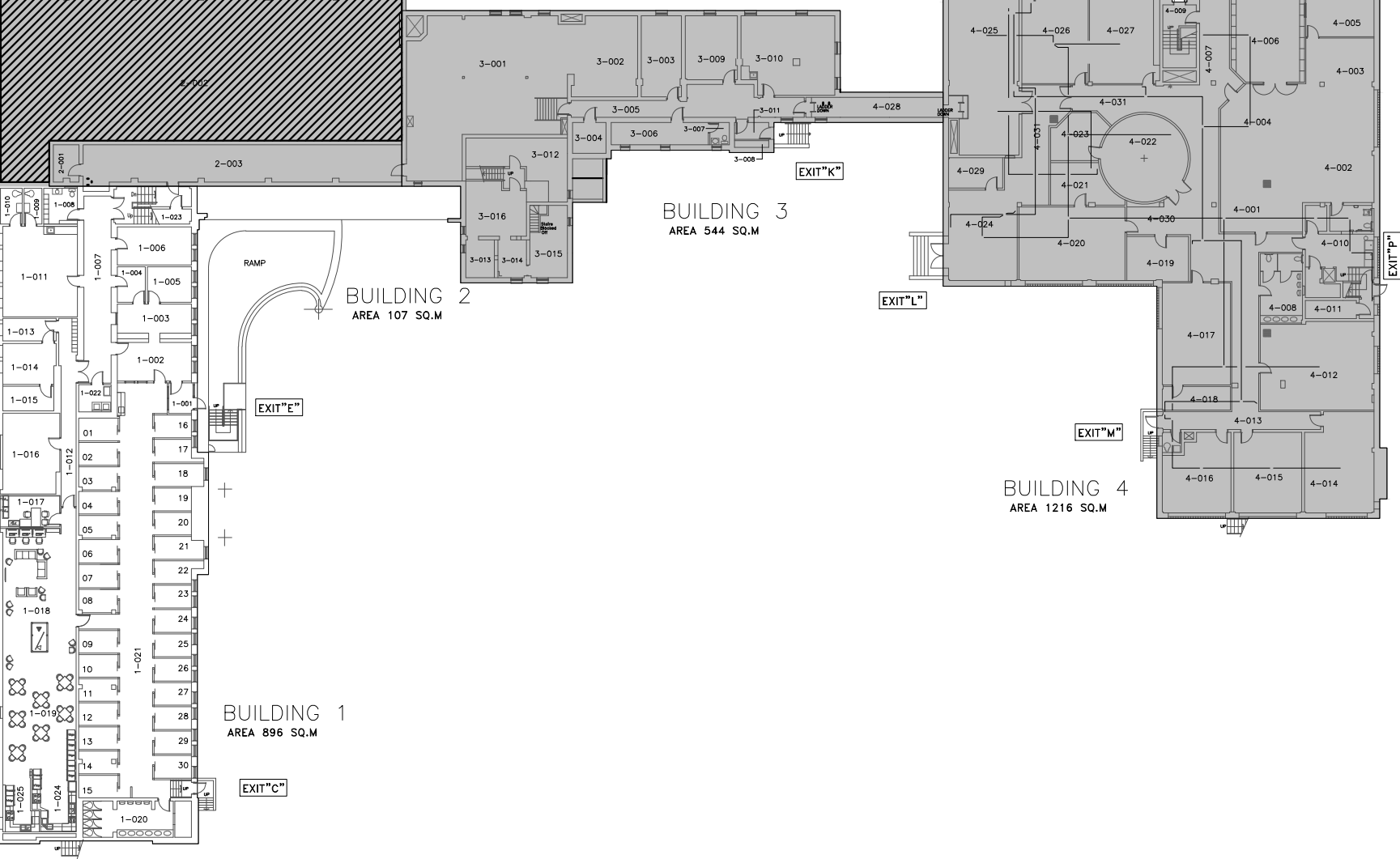
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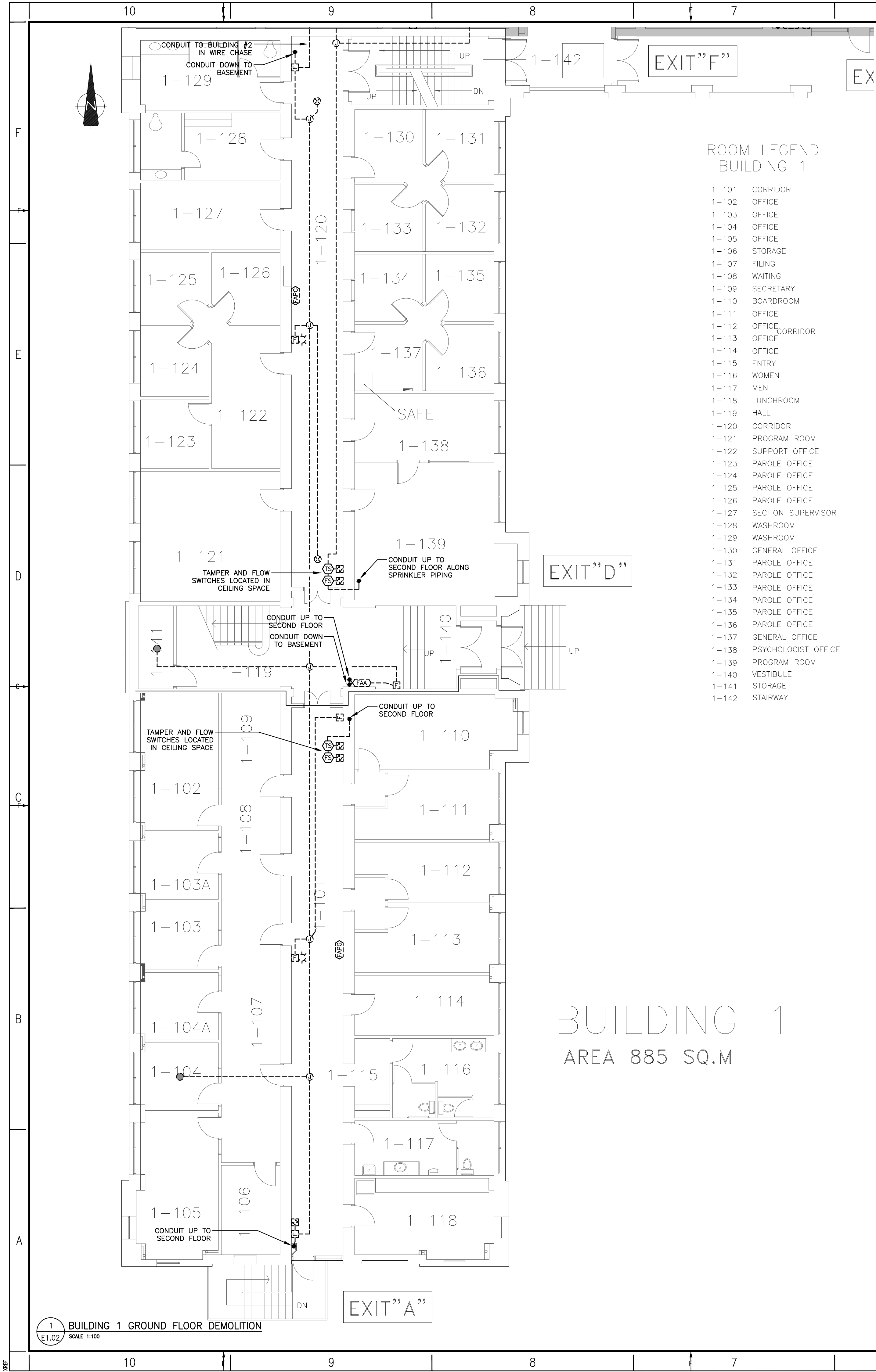
BUILDING 1 - BASEMENT
FIRE ALARM DEMOLITION

SHEET NUMBER: E1.01	REV # A
SHEET #: 2 OF 28	
ISSUE: ISSUED FOR TENDER	
DATE OF: 2018/09/26	



2 BASEMENT KEY PLAN
SCALE 1:500

1 BUILDING 1 BASEMENT DEMOLITION
E1.01
SCALE 1:100



ROOM LEGEND
BUILDING 1

- 1-101 CORRIDOR
- 1-102 OFFICE
- 1-103 OFFICE
- 1-104 OFFICE
- 1-105 OFFICE
- 1-106 STORAGE
- 1-107 FILING
- 1-108 WAITING
- 1-109 SECRETARY
- 1-110 BOARDROOM
- 1-111 OFFICE
- 1-112 OFFICE
- 1-113 CORRIDOR
- 1-114 OFFICE
- 1-115 ENTRY
- 1-116 WOMEN
- 1-117 MEN
- 1-118 LUNCHROOM
- 1-119 HALL
- 1-120 CORRIDOR
- 1-121 PROGRAM ROOM
- 1-122 SUPPORT OFFICE
- 1-123 PAROLE OFFICE
- 1-124 PAROLE OFFICE
- 1-125 PAROLE OFFICE
- 1-126 PAROLE OFFICE
- 1-127 SECTION SUPERVISOR
- 1-128 WASHROOM
- 1-129 WASHROOM
- 1-130 GENERAL OFFICE
- 1-131 PAROLE OFFICE
- 1-132 PAROLE OFFICE
- 1-133 PAROLE OFFICE
- 1-134 PAROLE OFFICE
- 1-135 PAROLE OFFICE
- 1-136 PAROLE OFFICE
- 1-137 GENERAL OFFICE
- 1-138 PSYCHOLOGIST OFFICE
- 1-139 PROGRAM ROOM
- 1-140 VESTIBULE
- 1-141 STORAGE
- 1-142 STAIRWAY

BUILDING 1
AREA 885 SQ.M

DEMOLITION GENERAL NOTES (FOR BUILDINGS 1, 2, & 3):

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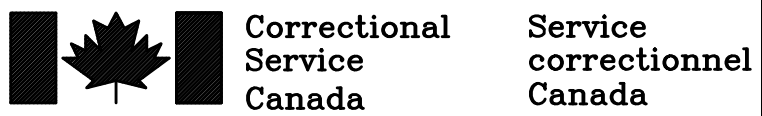
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GRIERSON & STAN DANIELS CENTRE
FIRE ALARM UPGRADE

KEY PLAN:

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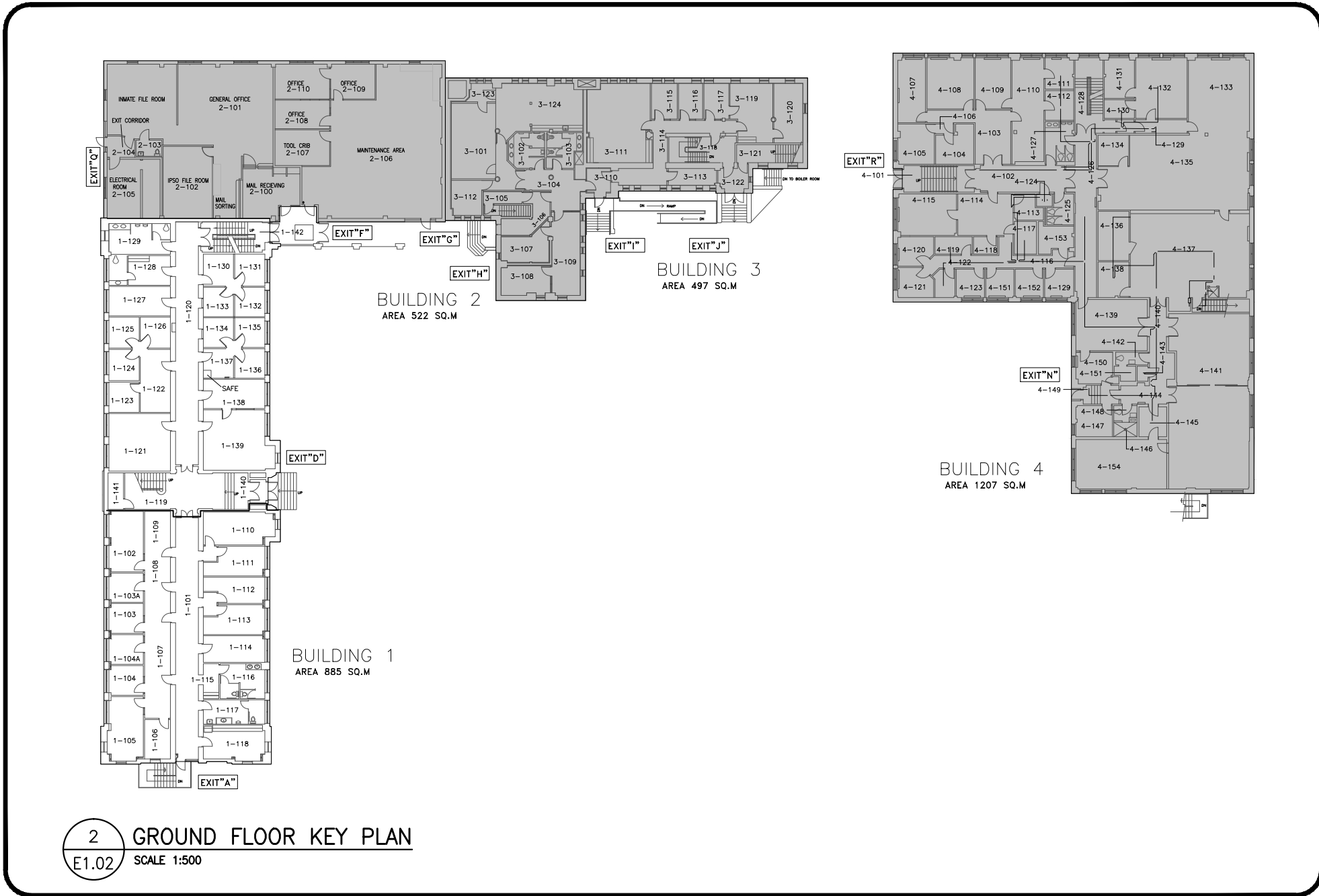
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DRAWN BY: L. SHADE
CHECKED BY: J. ESPINO
DISCIPLINE: ELECTRICAL

TITLE:
BUILDING 1 - GROUND FLOOR
FIRE ALARM DEMOLITION

SHEET NUMBER: E1.02
SHEET #: 3 OF 28
ISSUE: ISSUED FOR TENDER
DATE OF: 2018/09/26
REV # A





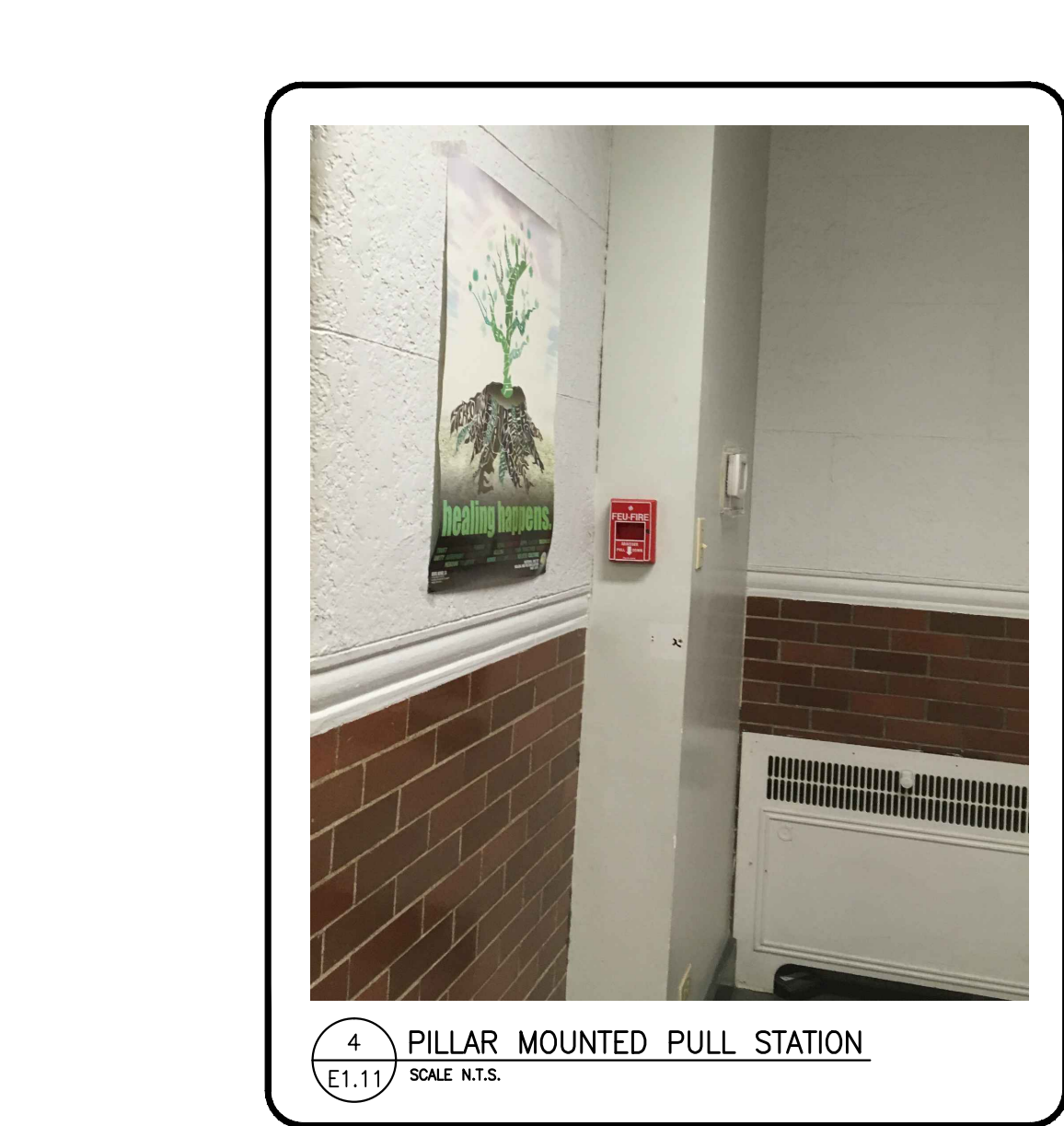
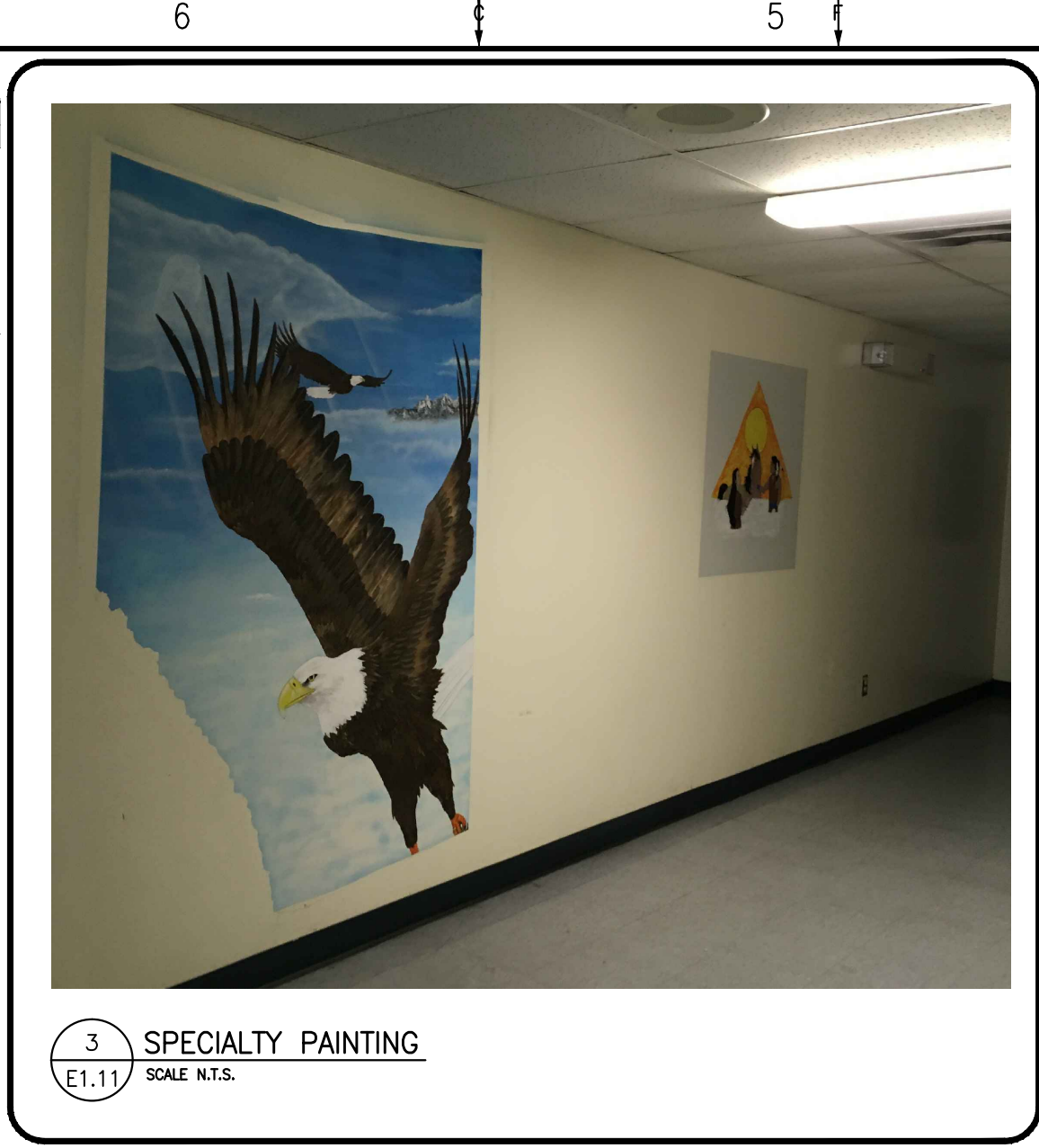
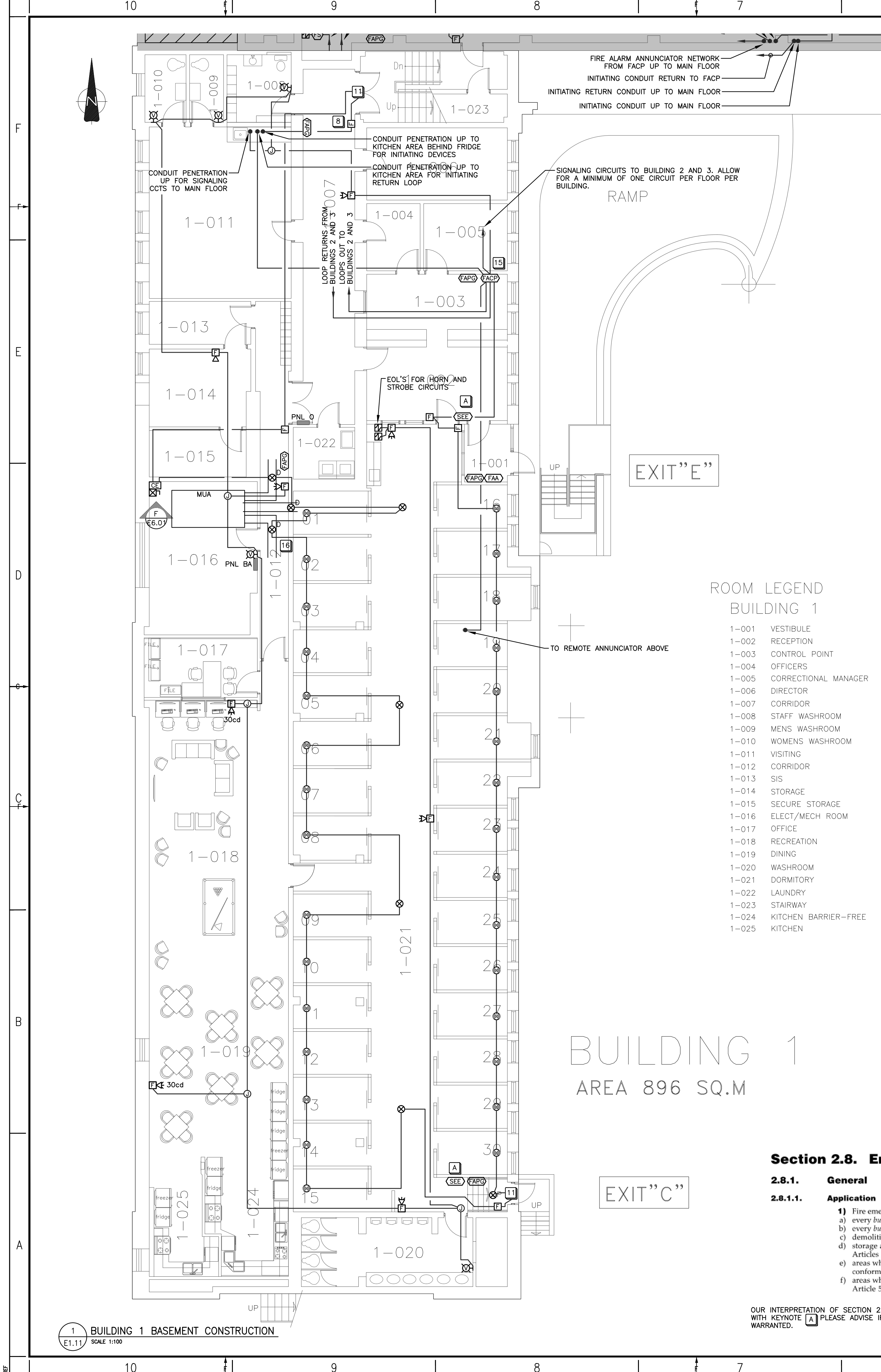
- | | |
|-------|-------------------|
| 1-201 | CORRIDOR |
| 1-202 | GENERAL AREA |
| 1-203 | AREA SUPERVISOR |
| 1-204 | PAROLE OFFICE |
| 1-205 | PAROLE OFFICE |
| 1-206 | PAROLE OFFICE |
| 1-207 | PAROLE OFFICE |
| 1-208 | PAROLE OFFICE |
| 1-209 | PAROLE OFFICE |
| 1-210 | PAROLE OFFICE |
| 1-211 | READING |
| 1-212 | JANITOR |
| 1-213 | FAX |
| 1-214 | DISTRICT DIRECTOR |
| 1-215 | OFFICE |
| 1-216 | STORAGE |
| 1-217 | WASHROOM |
| 1-218 | STAFF LOUNGE |
| 1-219 | PHOTOCOPY |
| 1-220 | GENERAL OFFICE |
| 1-221 | OFFICE |
| 1-222 | STAIRWAY |
| 1-223 | STORAGE |
| 1-224 | BOARDROOM |
| 1-225 | STORAGE |
| 1-226 | REMOVED |
| 1-227 | REMOVED |
| 1-228 | CORRIDOR |
| 1-229 | GENERAL OFFICE |
| 1-230 | COMPUTER ROOM |
| 1-231 | PAROLE OFFICE |
| 1-232 | PAROLE OFFICE |
| 1-233 | PAROLE OFFICE |
| 1-234 | STORAGE |
| 1-235 | GENERAL OFFICE |
| 1-236 | PAROLE OFFICE |
| 1-237 | PAROLE OFFICE |
| 1-238 | PAROLE OFFICE |
| 1-239 | OFFICE |
| 1-240 | BOARDROOM |
| 1-241 | WASHROOM |
| 1-242 | WASHROOM |
| 1-243 | STAIRWAY |



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- 3 NOT USED.
- 4 EXISTING DOOR TIED INTO FIRE ALARM SYSTEM TO BE DISCONNECTED AND RECONNECTED TO NEW FIRE ALARM SYSTEM. REFER TO CONSTRUCTION DRAWINGS.





ROOM LEGEND BUILDING 1

- 1-001 VESTIBULE
- 1-002 RECEPTION
- 1-003 CONTROL POINT
- 1-004 OFFICERS
- 1-005 CORRECTIONAL MANAGER
- 1-006 DIRECTOR
- 1-007 CORRIDOR
- 1-008 STAFF WASHROOM
- 1-009 MENS WASHROOM
- 1-010 WOMENS WASHROOM
- 1-011 VISITING
- 1-012 CORRIDOR
- 1-013 SIS
- 1-014 STORAGE
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- 1-017 OFFICE
- 1-018 RECREATION
- 1-019 DINING
- 1-020 WASHROOM
- 1-021 DORMITORY
- 1-022 LAUNDRY
- 1-023 STAIRWAY
- 1-024 KITCHEN BARRIER-FREE
- 1-025 KITCHEN

BUILDING 1
AREA 896 SQ.M

Section 2.8. Emergency Planning

2.8.1. General

2.8.1.1. Application

- 1) Fire emergency procedures conforming to this Section shall be provided for
 - a) every building containing an assembly, care, treatment or detention occupancy,
 - b) every building required by the NBC to have a fire alarm system,
 - c) demolition and construction sites regulated under Section 5.6.,
 - d) storage areas required to have a fire safety plan in conformance with Articles 3.2.2.5. and 3.3.2.9.
 - e) areas where flammable liquids or combustible liquids are stored or handled, in conformance with Article 4.1.5.5., and
 - f) areas where hazardous processes or operations occur, in conformance with Article 5.1.5.1.

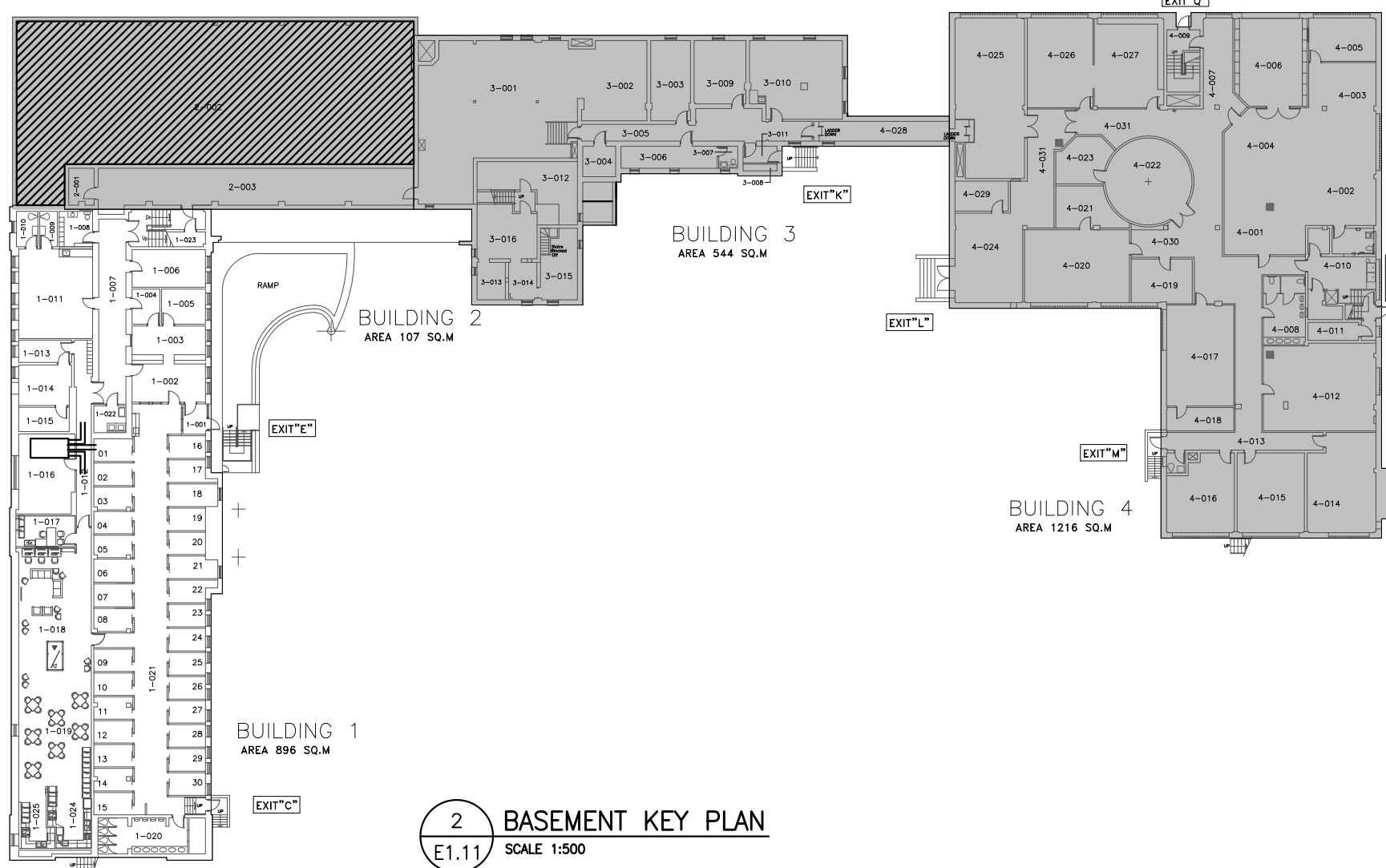
OUR INTERPRETATION OF SECTION 2.8 IS SUCH THAT A SIGN SHALL BE INSTALLED IN LOCATIONS ASSOCIATED WITH KEYNOTE [A]. PLEASE ADVISE IF THESE LOCATIONS ARE APPROPRIATE OR IF ADDITIONAL LOCATIONS ARE WARRANTED.

CONSTRUCTION GENERAL NOTES (FOR BUILDINGS 1, 2, & 3):

1. DEVICES SHOWN ARE TO BE NEW UNLESS OTHERWISE NOTED.
2. NEW DEVICES LOCATED IN BUILDINGS 1, 2, AND 3 ARE TO BE TIED INTO FIRE ALARM CONTROL PANEL LOCATED IN BUILDING 1.
3. NEW DEVICES LOCATED IN BUILDING 4 ARE TO BE TIED INTO NEW FIRE ALARM CONTROL PANEL LOCATED IN BUILDING 4.
4. EACH FIRE ALARM CONTROL PANEL WILL SEND A SUPERVISORY SIGNAL TO THE OTHER PANEL WHEN THE SYSTEM IT MONITORS GOES INTO ALARM. CONNECTION BETWEEN THE FIRE ALARM PANELS SHALL BE ROUTED THROUGH THE TUNNELS CONNECTING BUILDING 3 AND BUILDING 4. CONDUIT SHALL NOT PENETRATE THE EXTERIOR OF THE BUILDING.
5. CONTRACTOR TO CONFIRM EXACT CEILING AND WALL TYPES IN EACH ROOM AS WELL AS CONSIDER ANY HAZARDOUS MATERIAL CONSIDERATIONS, TO DETERMINE MOUNTING REQUIREMENTS PRIOR TO INSTALLATION.
6. ALL CONDUITS, CABLES AND JUNCTION BOXES ARE TO BE NEW. NEW CONDUIT ROUTING AND JUNCTION BOXES ARE SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. CONTRACTOR TO CONFIRM EXACT CONDUIT RUNS AND PENETRATIONS ON SITE. ENSURE EXISTING FIRE ALARM SYSTEM REMAINS OPERATIONAL DURING CONSTRUCTION OF THE NEW FIRE ALARM SYSTEM.
7. EXISTING FIRE SEPARATIONS ARE TO BE MAINTAINED. THIS IS TO INCLUDE, BUT IS NOT LIMITED TO, BETWEEN FLOORS AND BETWEEN BUILDINGS.
8. ALL DEVICES TO BE FED VIA IDENTIFIED FIRE ALARM CONDUIT C/W 4-WIRES.
9. ALL FIRE ALARM STROBE CANDELA RATINGS ARE 15cd UNLESS OTHERWISE NOTED ADJACENT TO DEVICE. ALL STROBES TO BE SYNCHRONIZED.
10. SMOKE DETECTORS C/W LOCALIZED ALARMS SHALL BE INSTALLED IN SLEEPING ROOMS. THESE DEVICES WILL SOUND LOCALLY WHEN SMOKE IS DETECTED AND CEASE WHEN THE SMOKE HAS CLEARED. A SUPERVISORY SIGNAL WILL BE SENT TO THE FIRE ALARM PANEL. PROVIDE DC CIRCUIT TO ALL THE SOUNDER BATES IN BEDROOMS. CONFIRM EXACT DC VOLTAGE WITH MANUFACTURER.
11. CONDUIT SHALL BE RECESSED IN ALL AREAS WITH THE EXCEPTION OF AREAS CONSISTING OF BRICK OR TILE OR IN MECHANICAL OR ELECTRICAL ROOMS. SURFACE CONDUIT IN THESE AREAS SHALL BE PAINTED TO MATCH THE COLOUR OF THE WALL/CEILING.
12. CONTRACTOR TO REPLACE ALL EXISTING PASSIVE GRAPHICS AND PROVIDE NEW IN THE LOCATIONS SHOWN ON THE CONSTRUCTION DRAWINGS. CONTRACTOR TO SUPPLY FOUR (4) ADDITIONAL PASSIVE GRAPHICS TO DEPARTMENTAL REPRESENTATIVE.
13. CONTRACTOR TO PROVIDE A BUILDING GRAPHIC SIMILAR TO PHOTO 3 ON DRAWING E2.11 AT THE SAME LOCATIONS AS ALL PASSIVE GRAPHICS. IT IS TO INCLUDE, BUT NOT LIMITED TO, THE EMERGENCY LIGHTING, FIRE EXTINGUISHERS LOCATIONS, AND ALL FIRE ALARM SYSTEM DEVICES. WSP TO PROVIDE CAD FILES TO CONTRACTOR TO UPDATE AND CONFIRM LOCATIONS. CONTRACTOR TO SUPPLY AN ADDITIONAL FOUR (4) BUILDING GRAPHICS TO DEPARTMENTAL REPRESENTATIVE.
14. CONTRACTOR TO AVOID PLACING NEW DEVICES ON WALLS WITH SPECIALTY PAINTING. CONTRACTOR TO RELOCATE NEW DEVICE AS REQUIRED TO NEAREST CLEAR WALL SPACE. REFER TO DETAIL 3 ON DRAWING E1.11 FOR EXAMPLE OF WALL WITH SPECIALTY PAINTING.
15. CONTRACTOR TO INSTALL INITIATING AND SIGNALLING WIRING IN SEPARATE LOOPS FOR EACH BUILDING. REFER TO RISER DIAGRAM FOR REFERENCE.
16. CONTRACTOR TO PROVIDE ADDITIONAL ACCESS HATCHES TO SUIT NEW FIRE ALARM SYSTEM INSTALLATION AS REQUIRED AND DETERMINE NEW LOCATIONS ON SITE. CONTRACTOR TO ALLOW FOR FIVE (5) ADDITIONAL ACCESS HATCHES IN DRYWALL CONTAINING NO ASBESTOS AND FIVE (5) ADDITIONAL ACCESS HATCHES IN DRYWALL CONTAINING MODERATE RISK ASBESTOS ABATEMENT LEVELS.
17. REFER TO TYPICAL FIRE ALARM ISOLATION INSTALLATION DIAGRAM ON DRAWING E5.02.
18. CONTRACTOR IS TO COORDINATE WITH DEPARTMENTAL REPRESENTATIVE TO ENSURE PROPER DESCRIPTION FOR ALL MONITORED SPRINKLER DEVICES TO BE INCLUDED IN NEW FACP PROGRAM.
19. PROVIDE CEILING MOUNTED LAMICIDS FOR CEILING MOUNTED DEVICES (i.e. TAMPER SWITCHES, FLOW SWITCHES, ETC.)
20. CONTRACTOR TO INCLUDE ALL COSTS FOR CONTROLS, START-UP, AND COMMISSIONING FROM CONTROLS MANUFACTURER AND MAINTENANCE CONTRACTOR.

CONSTRUCTION KEYNOTES:

- 1 BILLINGUAL "FIRE DO NOT ENTER" ILLUMINATED SIGN. ILLUMINATED SIGN TO BE STANPRO SLESS-SLSES-1-WM-WH-IB C/W CUSTOM LETTERING OR APPROVED EQUAL.
- 2 THE SIGN LOCATED IN BUILDING 3 SHALL BE TIED INTO THE FIRE ALARM SYSTEM IN BUILDING 4. WHEN BUILDING 4 IS SENT INTO ALARM, THE SIGN LOCATED IN BUILDING 3 SHALL ILLUMINATE.
- 3 THE SIGN LOCATED IN BUILDING 4 SHALL BE TIED INTO THE FIRE ALARM SYSTEM IN BUILDINGS 1, 2, AND 3. WHEN BUILDINGS 1, 2, AND 3 ARE SENT INTO ALARM, THE SIGN LOCATED IN BUILDING 4 SHALL ILLUMINATE.
- 4 THE DEVICE LOCATED IN BUILDING 3 SHALL BE TIED INTO THE FIRE ALARM SYSTEM FOR BUILDINGS 1, 2, AND 3.
- 5 THE DEVICE LOCATED IN BUILDING 4 SHALL BE TIED INTO THE FIRE ALARM SYSTEM FOR BUILDING 4.
- 6 WEATHER-PROOF STROBE TO BE MOUNTED ON EXTERIOR WALL ABOVE EXISTING SIAMESE CONNECTION.
- 7 NOT USED.
- 8 PULL STATIONS SHALL BE MOUNTED ON DRYWALL PILLAR AS OPPOSED TO BRICK WHEN POSSIBLE. REFER TO DETAIL 4 ON DRAWING E1.11.
- 9 CONTRACTOR TO PROVIDE AN ELECTRICAL SHUT OFF RELAY OPERATED BY THE FIRE ALARM SYSTEM FOR CUTTING ALL HEAT PRODUCING SOURCES OF FUEL AND ELECTRICAL POWER FOR THE COOKING EQUIPMENT. CONTRACTOR TO INCLUDE ALL COST ASSOCIATED TO THE WORK ABOVE IN THEIR BID.
- 10 PROVIDE A HEAT DETECTOR IN ELEVATOR PIT.
- 11 ELECTRICAL CONTRACTOR TO DISCONNECT AND RECONNECT EXISTING DOOR MAGNETIC HOLD OPEN DEVICES AT DOOR. CONTRACTOR TO SUPPLY AND INSTALL FIRE ALARM RELAYS TO TIE DOOR INTO FIRE ALARM SYSTEM AS REQUIRED.
- 12 LAMICOID STATING IN ENGLISH AND FRENCH "WHEN THIS STROBE IS ON, BUILDING 3 IS IN ALARM - DO NOT ENTER."
- 13 LAMICOID STATING IN ENGLISH AND FRENCH "WHEN THIS STROBE IS ON, BUILDING 4 IS IN ALARM - DO NOT ENTER."
- 14 SINGLE BOOSTER POWER SUPPLY SHOWN FOR BUILDING 3. CONTRACTOR TO DETERMINE IF ADDITIONAL BOOSTER POWER SUPPLIES ARE REQUIRED FOR BUILDING 3 AND REMAINDER OF BUILDINGS. CONTRACTOR TO PROVIDE AND ALLOW FOR ADDITIONAL BOOSTER POWER SUPPLIES IN BID PRICE.
- 15 21mmC c/w 40#16 FAS TO BUILDING TELEPHONE BACKBOARD FOR AUTODIALER AND MONITORING PANEL. PROVIDE NEW AUTODIALER WITH TWO COMMUNICATION DIAL OUT SIGNALS OUTPUT (PRIMARY AND ALTERNATE PHONE LINES). CONFIRM PHONE NUMBERS WITH PNCSC AND ENSURE TWO TYPES OF TRANSMISSION. PROVIDE NEW MONITORING PANEL THAT IS ULC-S561 COMPLIANT. BOTH AUTODIALER AND MONITORING PANEL ARE TO BE FROM SAME MANUFACTURER. CONTRACTOR TO CONFIRM MODEL OF AUTODIALER AND MONITORING PANEL WITH OWNER AND PROVIDE ALL COSTS FOR SUPPLY AND INSTALLATION OF AUTODIALER / MONITORING PANEL IN THEIR BID.
- 16 REMOTE LED INDICATOR IS TO BE PROVIDED FOR ALL NOT VISIBLE DUCT DETECTORS.
- A CONTRACTOR TO PROVIDE FIRE EMERGENCY PROCEDURE SIGN AT DESIGNATED LOCATIONS. SIGN SHALL INCLUDE ALL ARTICLES NOTED IN NATIONAL FIRE CODE SECTION 2.8.2.1.1.0 WRITTEN IN ENGLISH AND FRENCH. CONTRACTOR TO SUBMIT DRAFT COPY TO PUBLIC WORKS, GRIERSON AND CONSULTANT FOR REVIEW PRIOR TO ORDERING SIGNS. CONTRACTOR TO PROVIDE FOUR (4) ADDITIONAL COPIES OF EMERGENCY PROCEDURE SIGNS TO BE INSTALLED AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE.



2 BASEMENT KEY PLAN
E1.11 SCALE 1:200



CONSULTANT:

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PERMIT NUMBER: P07641
The Association of Professional
Engineers and Geoscientists of Alberta



CLIENT:



CLIENT REF. #: CLIENT_REFERENCE_#

PROJECT:

GRIERSON & STAN DANIELS CENTRE
FIRE ALARM UPGRADE

KEY PLAN:

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NO.	DATE	DESCRIPTION
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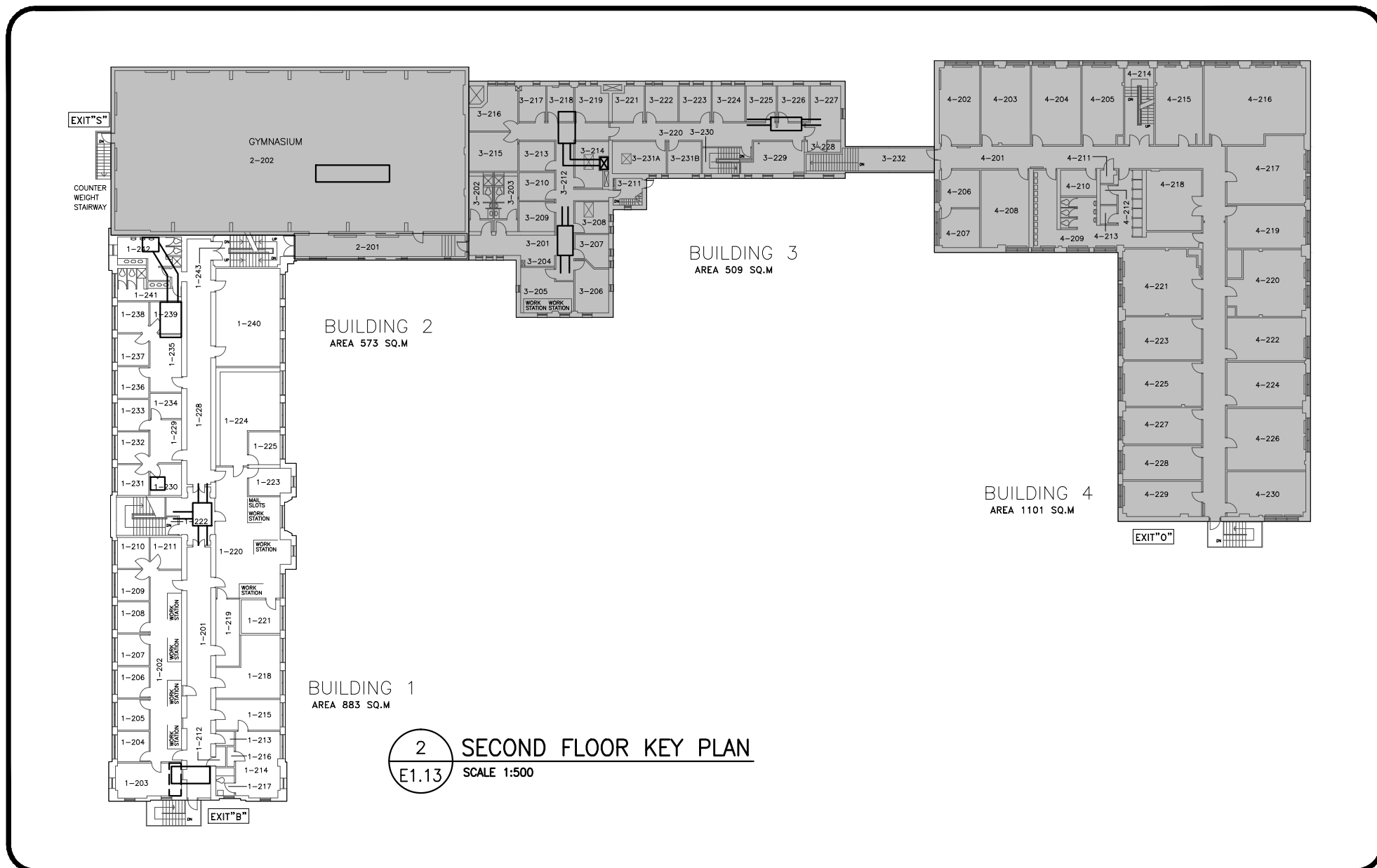
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PROJECT NO:	171-04506-00	DATE:	2018/09/26
ORIGINAL SCALE:	AS NOTED	IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.	
DESIGNED BY:	L. SHADE		
DRAWN BY:	L. SHADE		
CHECKED BY:	J. ESPINO		
DISCIPLINE:	ELECTRICAL		

TITLE:

BUILDING 1 - BASEMENT
FIRE ALARM CONSTRUCTION

SHEET NUMBER:	E1.11	REV #	A
SHEET #:	5 OF 28		
ISSUED FOR TENDER			
DATE OF: 2018/09/26			

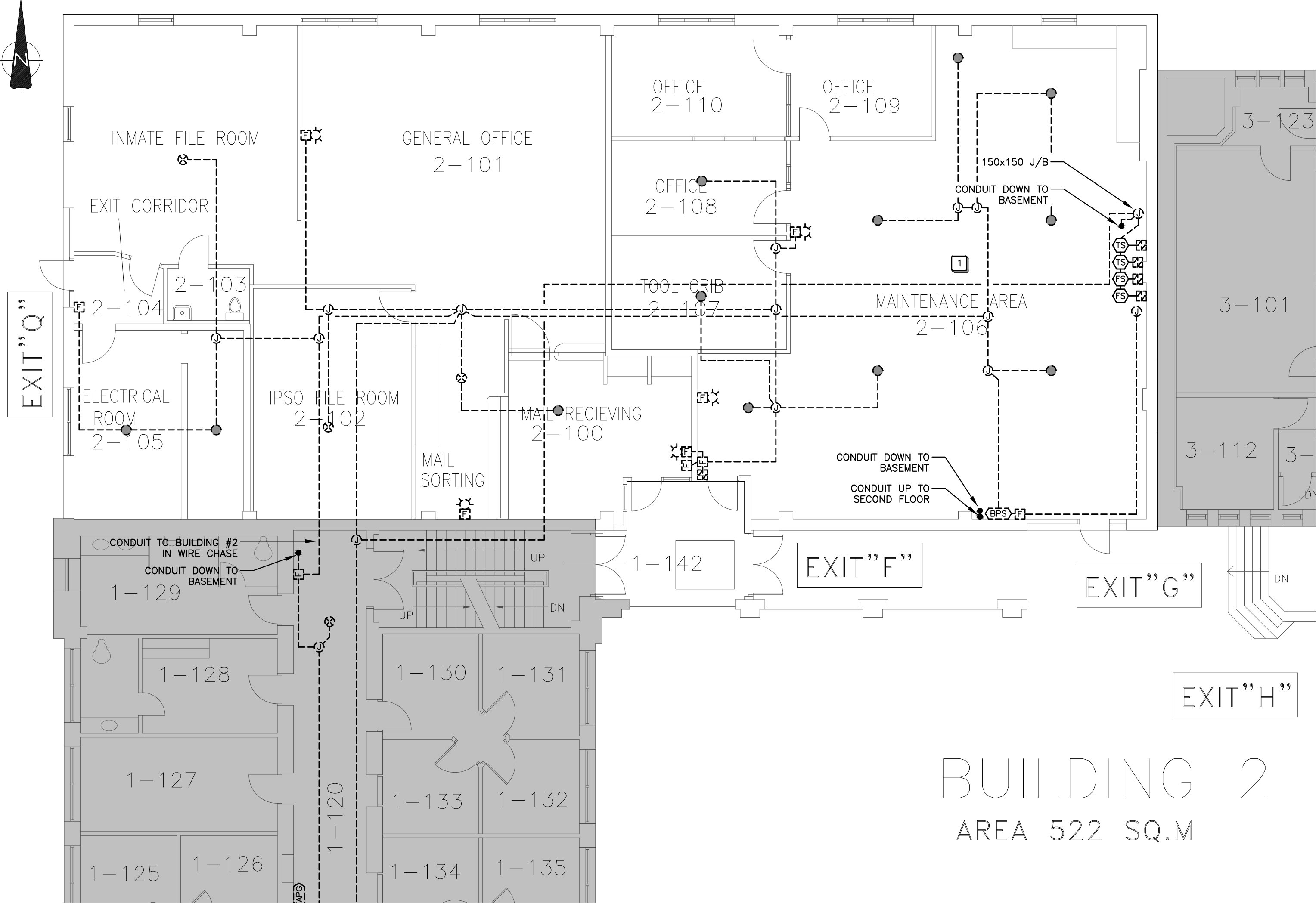


3. DEVICES SHOWN ARE TO BE NEW UNLESS OTHERWISE NOTED.
2. NEW DEVICES LOCATED IN BUILDINGS 1, 2, AND 3 ARE TO BE TIED INTO FIRE ALARM CONTROL PANEL LOCATED IN BUILDING 1.
3. NEW DEVICES LOCATED IN BUILDING 4 ARE TO BE TIED INTO NEW FIRE ALARM CONTROL PANEL LOCATED IN BUILDING 4.
4. EACH FIRE ALARM CONTROL PANEL WILL SEND A SUPERVISORY SIGNAL TO THE OTHER PANEL WHEN THE SYSTEM IT MONITORS GOES INTO ALARM. CONNECTION BETWEEN THE FIRE ALARM PANELS SHALL BE ROUTED THROUGH THE TUNNELS CONNECTING BUILDING 3 AND BUILDING 4. CONDUIT SHALL NOT PENETRATE THE EXTERIOR OF THE BUILDING.
5. CONTRACTOR TO CONFIRM EXACT CEILING AND WALL TYPES IN EACH ROOM AS WELL AS CONSIDER ANY HAZARDOUS MATERIAL CONSIDERATIONS, TO DETERMINE MOUNTING REQUIREMENTS PRIOR TO INSTALLATION.
6. ALL CONDUITS, CABLES AND JUNCTION BOXES ARE TO BE NEW. NEW CONDUIT ROUTING AND JUNCTION BOXES ARE SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. CONTRACTOR TO CONFIRM EXACT CONDUIT RUNS AND PENETRATIONS ON SITE. ENSURE EXISTING FIRE ALARM SYSTEM REMAINS OPERATIONAL DURING CONSTRUCTION OF THE NEW FIRE ALARM SYSTEM.
7. EXISTING FIRE SEPARATIONS ARE TO BE MAINTAINED. THIS IS TO INCLUDE, BUT IS NOT LIMITED TO, BETWEEN FLOORS AND BETWEEN BUILDINGS.
8. ALL DEVICES TO BE FED VIA IDENTIFIED FIRE ALARM CONDUIT C/W 4-WIRES.
9. ALL FIRE ALARM STROBE CANDELA RATINGS ARE 15cd UNLESS OTHERWISE NOTED ADJACENT TO DEVICE. ALL STROBES TO BE SYNCHRONIZED.
10. SMOKE DETECTORS C/W LOCALIZED ALARMS SHALL BE INSTALLED IN SLEEPING ROOMS. THESE DEVICES WILL SOUND LOCALLY WHEN SMOKE IS DETECTED AND CEASE WHEN THE SMOKE HAS CLEARED. A SUPERVISORY SIGNAL WILL BE SENT TO THE FIRE ALARM PANEL. PROVIDE DC CIRCUIT TO ALL THE SOUNDER BASES IN BEDROOMS. CONFIRM EXACT DC VOLTAGE WITH MANUFACTURER.
11. CONDUIT SHALL BE RECESSED IN ALL AREAS WITH THE EXCEPTION OF AREAS CONSISTING OF BRICK OR TILE OR IN MECHANICAL OR ELECTRICAL ROOMS. SURFACE CONDUIT IN THESE AREAS SHALL BE PAINTED TO MATCH THE COLOUR OF THE WALL/CEILING.
12. CONTRACTOR TO REPLACE ALL EXISTING PASSIVE GRAPHICS AND PROVIDE NEW IN THE LOCATIONS SHOWN ON THE CONSTRUCTION DRAWINGS. CONTRACTOR TO SUPPLY FOUR (4) ADDITIONAL PASSIVE GRAPHICS TO DEPARTMENTAL REPRESENTATIVE.
13. CONTRACTOR TO PROVIDE A BUILDING GRAPHIC SIMILAR TO PHOTO 3 ON DRAWING E2.11 AT THE SAME LOCATIONS AS ALL PASSIVE GRAPHICS. THIS IS TO INCLUDE, BUT NOT LIMITED TO, THE EMERGENCY LIGHTING, FIRE EXTINGUISHERS LOCATIONS, AND ALL FIRE ALARM SYSTEM DEVICES. WSP TO PROVIDE CAD FILES TO CONTRACTOR TO UPDATE AND CONFIRM LOCATIONS. CONTRACTOR TO SUPPLY AN ADDITIONAL FOUR (4) BUILDING GRAPHICS TO DEPARTMENTAL REPRESENTATIVE.
14. CONTRACTOR TO AVOID PLACING NEW DEVICES ON WALLS WITH SPECIALTY PAINTING. CONTRACTOR TO RELOCATE NEW DEVICE AS REQUIRED TO PROVIDE CLEAR WALL SPACE. REFER TO DETAIL 3 ON DRAWING E1.11 FOR EXAMPLE OF WALL WITH SPECIALTY PAINTING.
15. CONTRACTOR TO INSTALL INITIATING AND SIGNALLING WIRING IN SEPARATE LOOPS FOR EACH BUILDING. REFER TO RISER DIAGRAM FOR REFERENCE.
16. CONTRACTOR TO PROVIDE ADDITIONAL ACCESS HATCHES TO SUIT NEW FIRE ALARM SYSTEM INSTALLATION AS REQUIRED AND DETERMINE NEW LOCATIONS ON SITE. CONTRACTOR TO ALLOW FOR FIVE (5) ADDITIONAL ACCESS HATCHES IN DRYWALL CONTAINING NO ASBESTOS AND FIVE (5) ADDITIONAL ACCESS HATCHES IN DRYWALL CONTAINING MODERATE RISK ASBESTOS ABATEMENT LEVELS.
17. REFER TO TYPICAL FIRE ALARM ISOLATION INSTALLATION DIAGRAM ON DRAWING E5.02.
18. CONTRACTOR IS TO COORDINATE WITH DEPARTMENTAL REPRESENTATIVE TO ENSURE PROPER DESCRIPTION FOR ALL MONITORED SPRINKLER DEVICES TO BE INCLUDED IN NEW FAC PROGRAM.
19. PROVIDE CEILING MOUNTED LAMICOIDS FOR CEILING MOUNTED DEVICES (ie. TAMPER SWITCHES, FLOW SWITCHES, ETC.)
20. CONTRACTOR TO INCLUDE ALL COSTS FOR CONTROLS, START-UP, AND COMMISSIONING FROM CONTROLS MANUFACTURER AND MAINTENANCE CONTRACTOR.

- [1] BILLINGUAL "FIRE DO NOT ENTER" ILLUMINATED SIGN. ILLUMINATED SIGN TO BE STANPRO SLESSES-SLSES-1-WM-WH-IB C/W CUSTOM LETTERING OR APPROVED EQUAL.
- [2] THE SIGN LOCATED IN BUILDING 3 SHALL BE TIED INTO THE FIRE ALARM SYSTEM IN BUILDING 4. WHEN BUILDING 4 IS SENT INTO ALARM, THE SIGN LOCATED IN BUILDING 3 SHALL ILLUMINATE.
- [3] THE SIGN LOCATED IN BUILDING 4 SHALL BE TIED INTO THE FIRE ALARM SYSTEM IN BUILDINGS 1, 2, AND 3. WHEN BUILDINGS 1, 2, AND 3 ARE SENT INTO ALARM, THE SIGN LOCATED IN BUILDING 4 SHALL ILLUMINATE.
- [4] THE DEVICE LOCATED IN BUILDING 3 SHALL BE TIED INTO THE FIRE ALARM SYSTEM FOR BUILDINGS 1, 2, AND 3.
- [5] THE DEVICE LOCATED IN BUILDING 4 SHALL BE TIED INTO THE FIRE ALARM SYSTEM FOR BUILDING 4.
- [6] WEATHER-PROOF STROBE TO BE MOUNTED ON EXTERIOR WALL ABOVE EXISTING SIAMESE CONNECTION.
- [7] NOT USED.
- [8] PULL STATIONS SHALL BE MOUNTED ON DRYWALL PILLAR AS OPPOSED TO BRICK WHEN POSSIBLE. REFER TO DETAIL 4 ON DRAWING E111.
- [9] CONTRACTOR TO PROVIDE AN ELECTRICAL SHUT OFF RELAY OPERATED BY THE FIRE ALARM SYSTEM FOR CUTTING ALL HEAT PRODUCING SOURCES OF FUEL AND ELECTRICAL POWER FOR THE COOKING EQUIPMENT. CONTRACTOR TO INCLUDE ALL COST ASSOCIATED TO THE WORK ABOVE IN THEIR BID.
- [10] PROVIDE A HEAT DETECTOR IN ELEVATOR PIT.
- [11] ELECTRICAL CONTRACTOR TO DISCONNECT AND RECONNECT EXISTING DOOR MAGNETIC HOLD OPEN DEVICES AT DOOR. CONTRACTOR CUSTOM TO SUPPLY AND INSTALL FIRE ALARM RELAYS TO THE DOOR INTO FIRE ALARM SYSTEM AS REQUIRED.
- [12] LAMICOID STATING IN ENGLISH AND FRENCH "WHEN THIS STROBE IS ON, BUILDING 3 IS IN ALARM - DO NOT ENTER."
- [13] LAMICOID STATING IN ENGLISH AND FRENCH "WHEN THIS STROBE IS ON, BUILDING 4 IS IN ALARM - DO NOT ENTER."
- [14] SINGLE BOOSTER POWER SUPPLY SHOWN FOR BUILDING 3. CONTRACTOR TO DETERMINE IF ADDITIONAL BOOSTER POWER SUPPLIES ARE REQUIRED FOR BUILDING 3 AND REMAINDER OF BUILDINGS. CONTRACTOR TO PROVIDE AND ALLOW FOR ADDITIONAL BOOSTER POWER SUPPLIES IN BID PRICE.
- [15] 21mmC c/w #4616 PAS TO BUILDING TELEPHONE BACKBOARD FOR AUTODIALER AND MONITORING PANEL. PROVIDE NEW AUTODIALER WITH TWO CONSUMABLE DIAL OR COMBINATION AND AUTOMATIC PHONE LINES. CONTRACTOR TO PROVIDE PHONE NUMBERS WITH PWOSC AND ENSURE TWO TYPES OF TRANSMISSION. PROVIDE NEW MONITORING PANEL THAT IS ULCS-5561 COMPLIANT. BOTH AUTODIALER AND MONITORING PANEL ARE TO BE FROM SAME MANUFACTURER. CONTRACTOR TO CONFIRM MODEL OF AUTODIALER AND MONITORING PANEL WITH OWNER AND PROVIDE ALL COSTS FOR SUPPLY AND INSTALLATION OF AUTODIALER / MONITORING PANEL IN THEIR BID.
- [16] REMOTE LED INDICATOR IS TO BE PROVIDED FOR ALL NOT VISIBLE DUCT DETECTORS.
- [A] CONTRACTOR TO PROVIDE FIRE EMERGENCY PROCEDURE SIGN AT DESIGNATED LOCATIONS. SIGN SHALL INCLUDE ALL ARTICLES NOTED IN "NATIONAL FIRE PROTECTION ASSOCIATION 2.6.2.1.1:0 WRITTEN IN ENGLISH AND FRENCH. CONTRACTOR TO SUBMIT DRAFT COPY TO PUBLIC WORKS, GREERSON AND CONSULTANT FOR REVIEW PRIOR TO ORDERING SIGNS. CONTRACTOR TO PROVIDE FOUR (4) ADDITIONAL COPIES OF EMERGENCY PROCEDURE SIGNS TO BE INSTALLED AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE.



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1 BUILDING 2 GROUND FLOOR DEMOLITION
SCALE 1:100

ROOM LEGEND
BUILDING 2

- 2-100 MAIL RECEIVING
- 2-101 GENERAL OFFICE
- 2-102 IPSO FILE ROOM
- 2-103 WASHROOM
- 2-104 EXIT CORRIDOR
- 2-105 ELECTRICAL ROOM
- 2-106 MAINTENANCE AREA
- 2-107 TOOL CRIB
- 2-108 OFFICE
- 2-109 OFFICE
- 2-110 OFFICE

BUILDING 2
AREA 522 SQ.M

DEMOLITION GENERAL NOTES (FOR BUILDINGS 1, 2, & 3):

- ALL DEVICES ARE EXISTING TO BE REMOVED BACK TO THE SOURCE (INCLUDING, BUT NOT LIMITED TO, CONDUIT, CABLING, DEVICES, BOXES, FITTINGS, PANELS, ETC.) UNLESS OTHERWISE NOTED.
- ALL EXISTING FIRE ALARM DEVICES, PANELS, AND MISCELLANEOUS PARTS TO BE DISPOSED BY THE CONTRACTOR. PRIOR TO DISPOSAL, COORDINATE WITH CORRECTIONAL SERVICES CANADA IF THEY WOULD LIKE TO RETAIN.
- CONTRACTOR IS TO PATCH, REPAIR, AND PAINT CEILINGS, WALLS, AND PENETRATIONS WHERE POSSIBLE. IN AREAS OF BRICK/TILE WALLS, CONTRACTOR IS TO SUPPLY AND INSTALL A STEEL COVER PLATE. THIS IS FOR INITIATING DEVICES, SIGNALLING DEVICES, AND END OF LINE RESISTORS. LOCATIONS OF END OF LINE RESISTORS ARE NOT SHOWN ON DRAWINGS.
- REPAIR IS TO INCLUDE REMOVED FIRE SPRAY, INSULATION, ETC. CONTRACTOR TO REPAIR AND PROVIDE FIRE SPRAY, INSULATION, ETC. TO MAINTAIN EXISTING RATING. EXISTING FIRE SEPARATIONS ARE TO BE MAINTAINED.
- EXISTING FIRE ALARM SYSTEM IS TO REMAIN OPERATIONAL UNTIL NEW SYSTEM IS FULLY FUNCTIONAL AND VERIFICATION IS COMPLETE. DOWNTIME OF THE FIRE ALARM SYSTEM SHALL BE LIMITED AND FIRE WATCH SHOULD BE ALLOWED FOR IN THE BID DURING DOWNTIME OF THE FIRE ALARM SYSTEM.
- ALL EXISTING CONDUIT RUNS SHOWN ON DEMOLITION DRAWINGS ARE FOR DIAGRAMMATIC PURPOSES ONLY AND NOT ALL EXISTING CONDUIT RUNS MAY BE SHOWN. CONTRACTOR TO EXAMINE SITE PRIOR TO BID.

DEMOLITION KEYNOTES:

- CONFIRM EXACT LOCATION OF DETECTORS IN MECHANICAL ROOMS, MAINTENANCE AREAS, ETC. ON SITE.
- AREA DENOTED BY HATCH HAS BEEN ABANDONED AND DEMOLITION OF EXISTING DEVICES, CONDUIT, CABLING, ETC. IS NOT INCLUDED IN THE SCOPE OF THIS PROJECT. (APPLICABLE TO BUILDING 2 BASEMENT - REFER TO DWG E2.01).
- NOT USED.
- EXISTING DOOR TIED INTO FIRE ALARM SYSTEM TO BE DISCONNECTED AND RECONNECTED TO NEW FIRE ALARM SYSTEM. REFER TO CONSTRUCTION DRAWINGS.



CONSULTANT:

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WSP Canada Inc.
PERMIT NUMBER: P07641
The Association of Professional
Engineers and Geoscientists of Alberta



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CLIENT REF. #: CLIENT_REFERENCE_#
PROJECT:

GRIERSON & STAN DANIELS CENTRE
FIRE ALARM UPGRADE

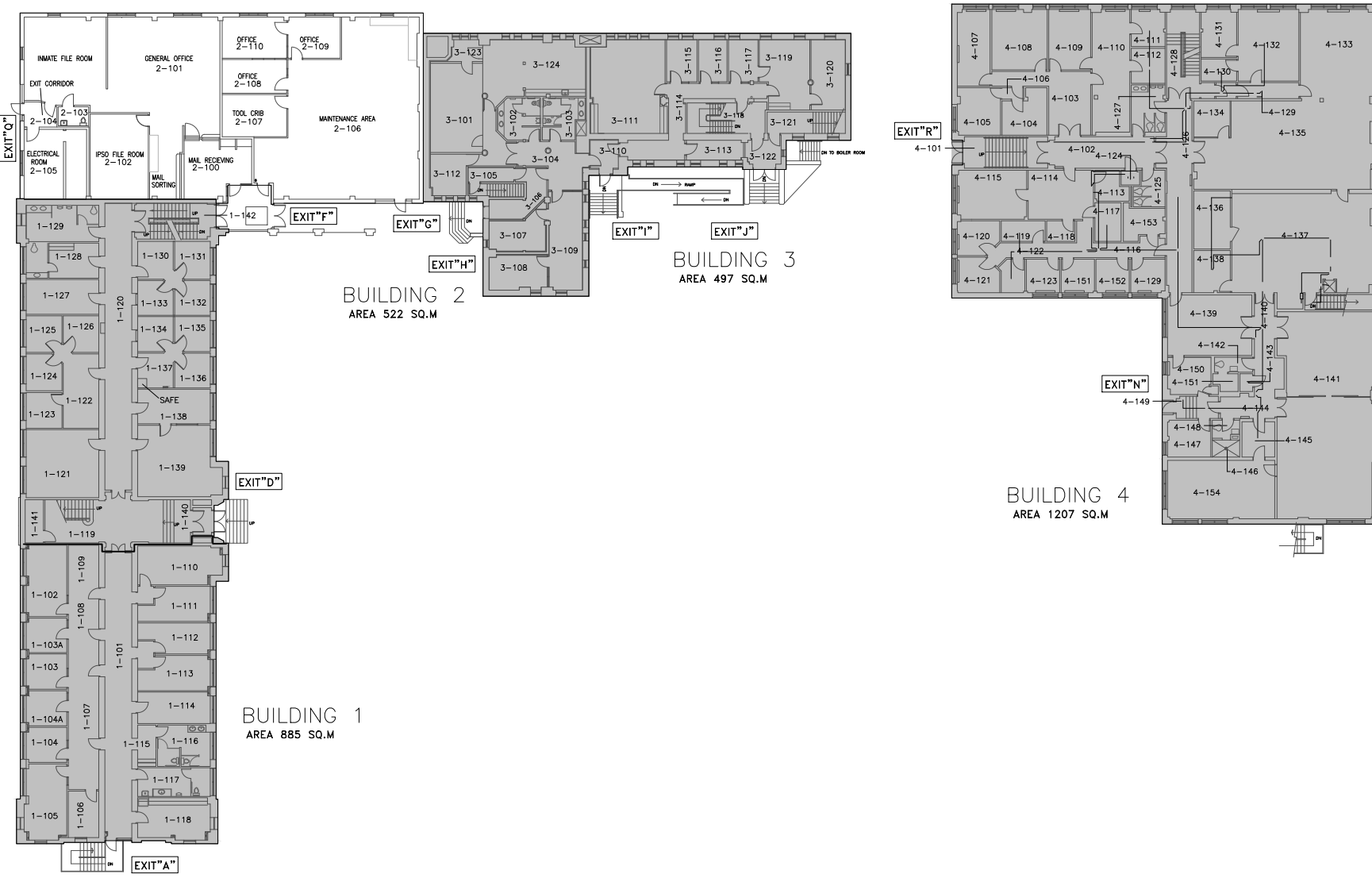
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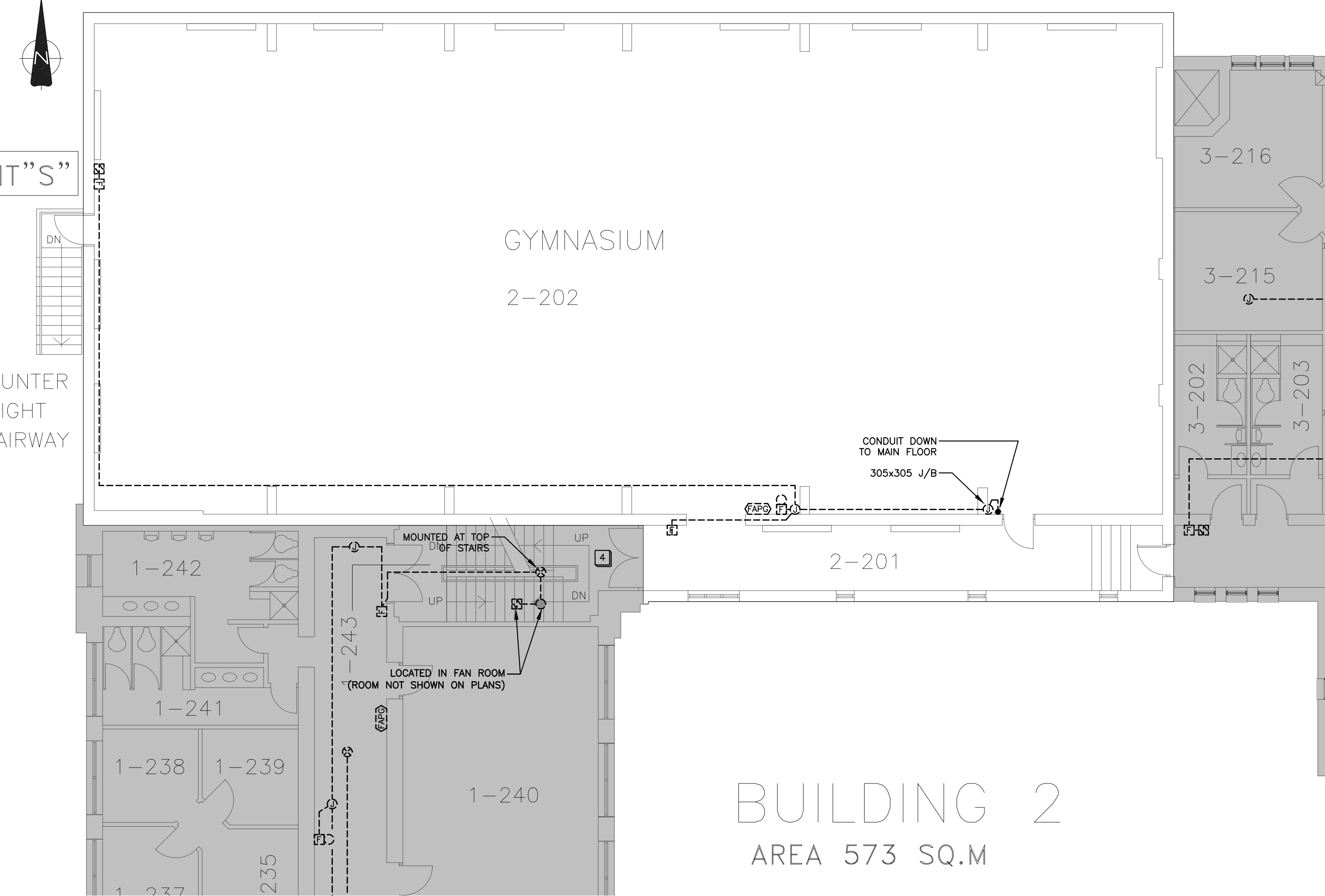
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ORIGINAL SCALE:	AS NOTED	IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.
DESIGNED BY:	L. SHADE	
DRAWN BY:	L. SHADE	
CHECKED BY:	J. ESPINO	
DISCIPLINE:	ELECTRICAL	
TITLE:	BUILDING 2 - GROUND FLOOR FIRE ALARM DEMOLITION	
SHEET NUMBER:	E2.02	
SHEET #:	9 OF 28	REV #
ISSUE:	ISSUED FOR TENDER	A
DATE OF:	2018/09/26	



2 GROUND FLOOR KEY PLAN
SCALE 1:500



1 BUILDING 2 SECOND FLOOR DEMOLITION
SCALE 1:100

ROOM LEGEND BUILDING 2

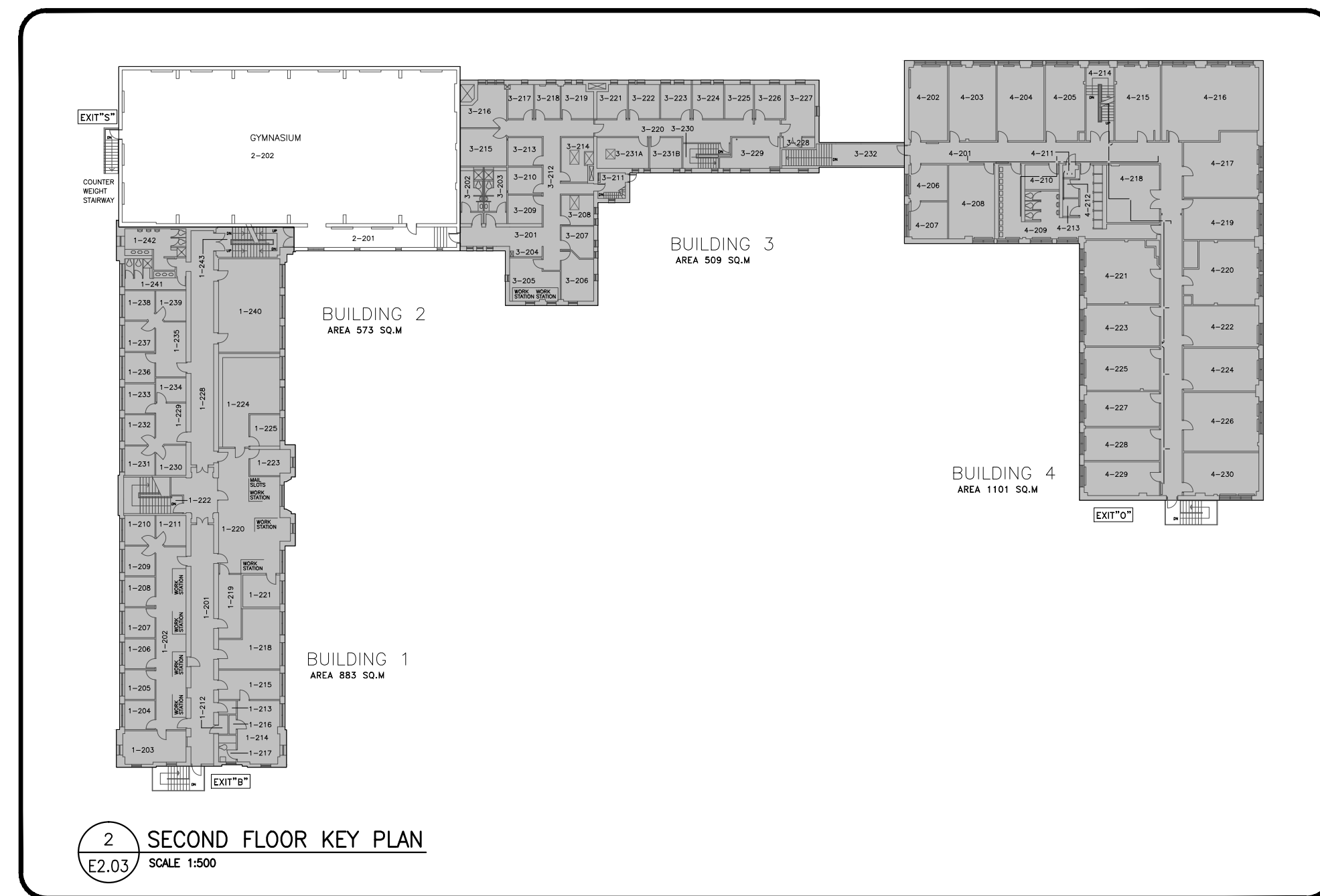
- 2-201 CORRIDOR
2-202 GYMNASIUM

DEMOLITION GENERAL NOTES (FOR BUILDINGS 1, 2, & 3):

- ALL DEVICES ARE EXISTING TO BE REMOVED BACK TO THE SOURCE (INCLUDING, BUT NOT LIMITED TO, CONDUIT, CABLING, DEVICES, BOXES, FITTINGS, PANELS, ETC.) UNLESS OTHERWISE NOTED.
- ALL EXISTING FIRE ALARM DEVICES, PANELS, AND MISCELLANEOUS PARTS TO BE DISPOSED BY THE CONTRACTOR. PRIOR TO DISPOSAL, COORDINATE WITH CORRECTIONAL SERVICES CANADA IF THEY WOULD LIKE TO RETAIN.
- CONTRACTOR IS TO PATCH, REPAIR, AND PAINT CEILINGS, WALLS, AND PENETRATIONS WHERE POSSIBLE. IN AREAS OF BRICK/TILE WALLS, CONTRACTOR IS TO SUPPLY AND INSTALL A STEEL COVER PLATE. THIS IS FOR INITIATING DEVICES, SIGNALLING DEVICES, AND END OF LINE RESISTORS. LOCATIONS OF END OF LINE RESISTORS ARE NOT SHOWN ON DRAWINGS.
- REPAIR IS TO INCLUDE REMOVED FIRE SPRAY, INSULATION, ETC. CONTRACTOR TO REPAIR AND PROVIDE FIRE SPRAY, INSULATION, ETC. TO MAINTAIN EXISTING RATING. EXISTING FIRE SEPARATIONS ARE TO BE MAINTAINED.
- EXISTING FIRE ALARM SYSTEM IS TO REMAIN OPERATIONAL UNTIL NEW SYSTEM IS FULLY FUNCTIONAL AND VERIFICATION IS COMPLETE. DOWNTIME OF THE FIRE ALARM SYSTEM SHALL BE LIMITED AND FIRE WATCH SHOULD BE ALLOWED FOR IN THE BID DURING DOWNTIME OF THE FIRE ALARM SYSTEM.
- ALL EXISTING CONDUIT RUNS SHOWN ON DEMOLITION DRAWINGS ARE FOR DIAGRAMMATIC PURPOSES ONLY AND NOT ALL EXISTING CONDUIT RUNS MAY BE SHOWN. CONTRACTOR TO EXAMINE SITE PRIOR TO BID.

DEMOLITION KEYNOTES:

- CONFIRM EXACT LOCATION OF DETECTORS IN MECHANICAL ROOMS, MAINTENANCE AREAS, ETC. ON SITE.
- AREA DENOTED BY HATCH HAS BEEN ABANDONED AND DEMOLITION OF EXISTING DEVICES, CONDUIT, CABLING, ETC. IS NOT INCLUDED IN THE SCOPE OF THIS PROJECT. (APPLICABLE TO BUILDING 2 BASEMENT - REFER TO DWG E2.01).
- NOT USED.
- EXISTING DOOR TIED INTO FIRE ALARM SYSTEM TO BE DISCONNECTED AND RECONNECTED TO NEW FIRE ALARM SYSTEM. REFER TO CONSTRUCTION DRAWINGS.



2 SECOND FLOOR KEY PLAN
SCALE 1:500



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PROJECT:

GRIERSON & STAN DANIELS CENTRE
FIRE ALARM UPGRADE

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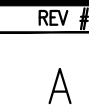
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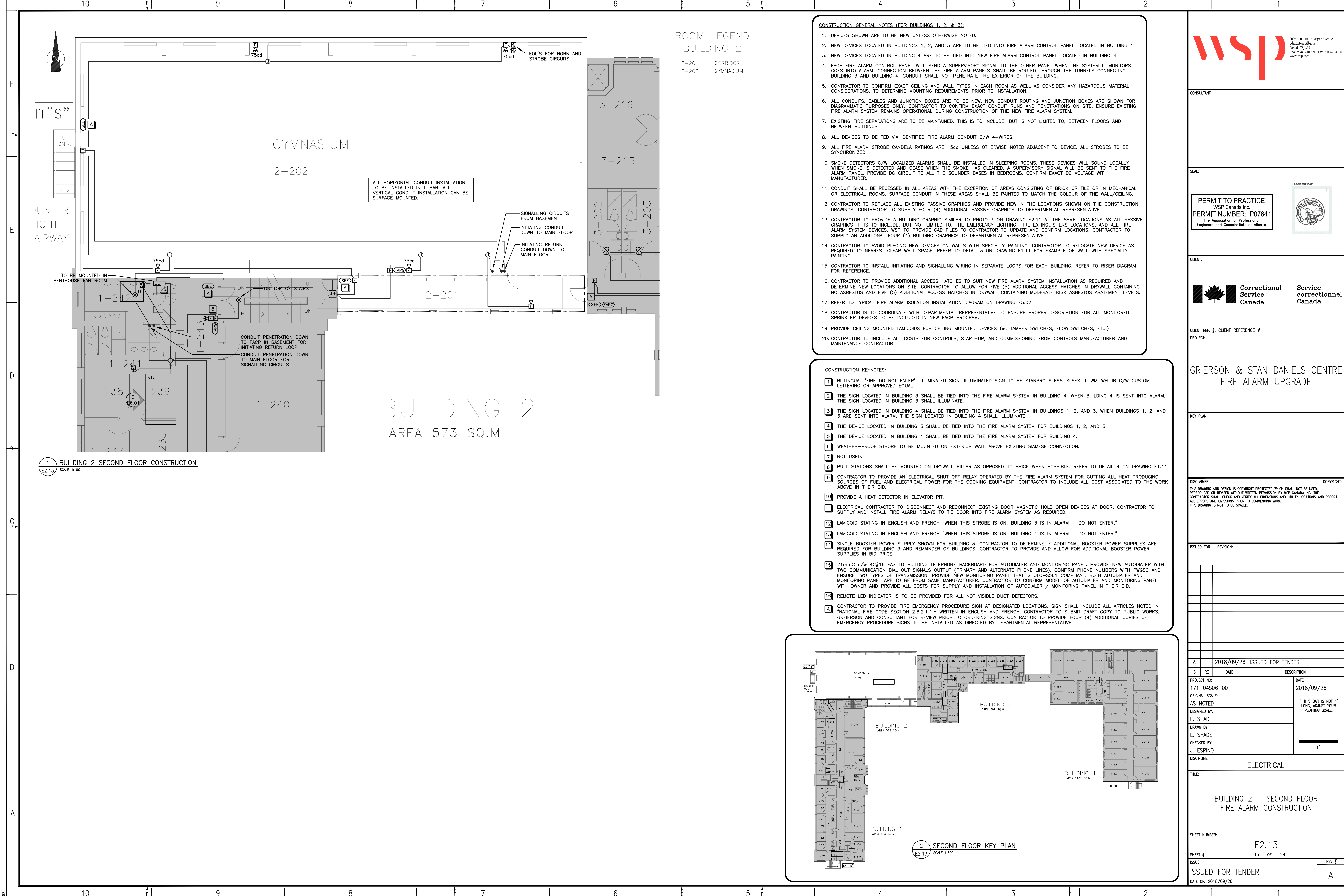
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DRAWN BY:	L. SHADE		
CHECKED BY:	J. ESPINO		

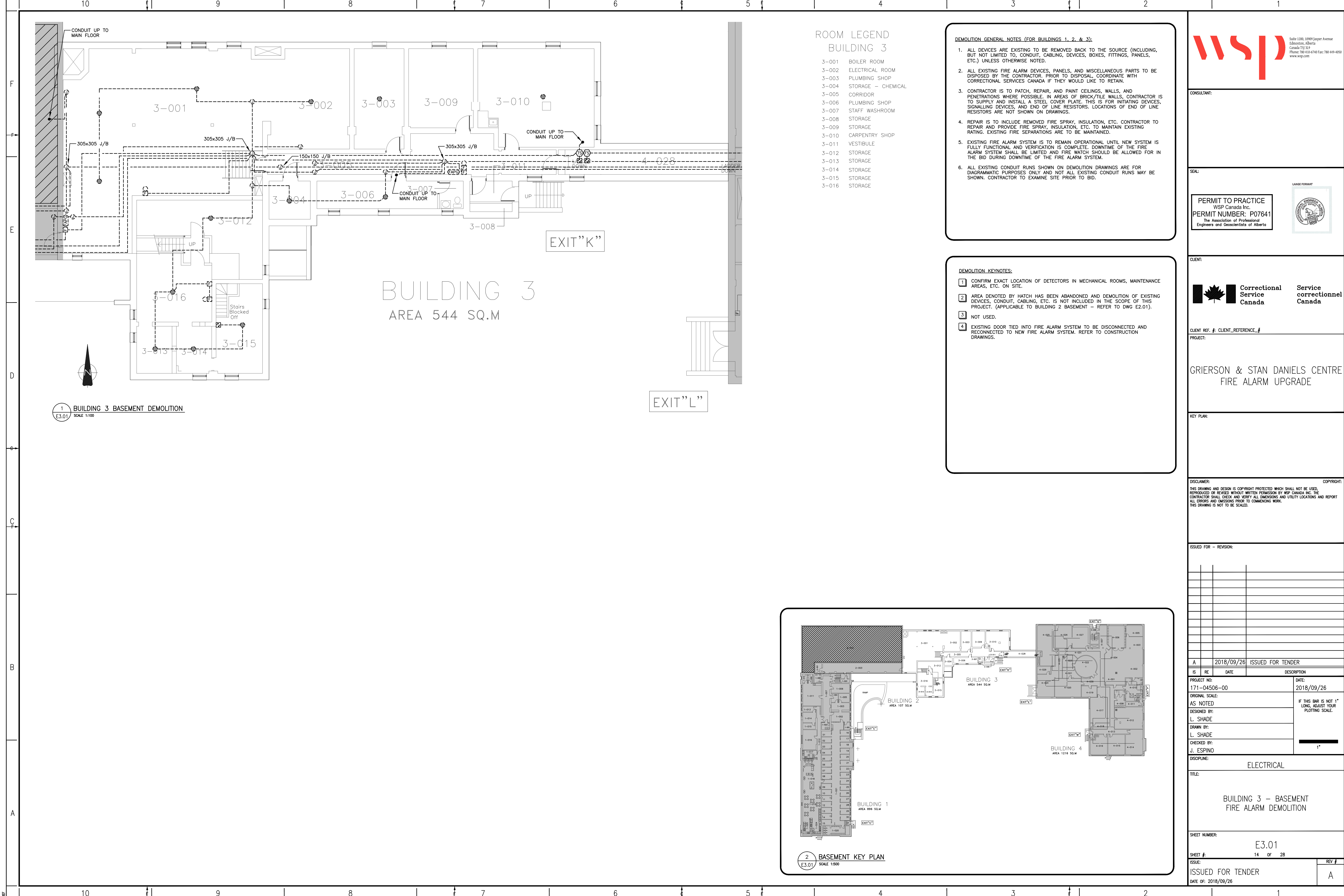
DISCIPLINE: ELECTRICAL
TITLE: BUILDING 2 - SECOND FLOOR
FIRE ALARM DEMOLITION

SHEET NUMBER:	E2.03	REV #	A
SHEET #:	10 OF 28		
ISSUE:	ISSUED FOR TENDER		
DATE OF:	2018/09/26		

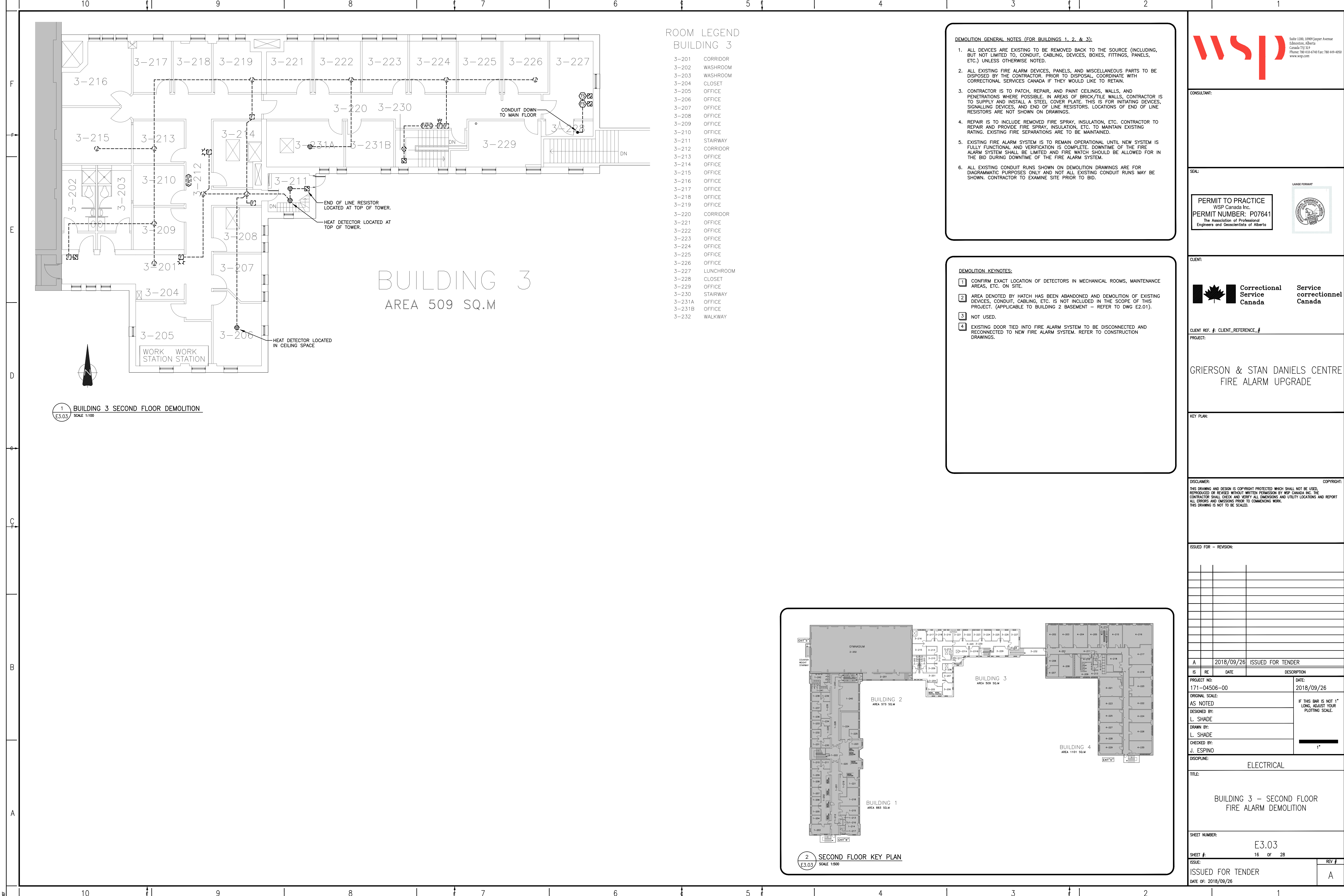
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DATE OF: 2018/09/26	











ROOM LEGEND
BUILDING 3

- 3-201 CORRIDOR
- 3-202 WASHROOM
- 3-203 WASHROOM
- 3-204 CLOSET
- 3-205 OFFICE
- 3-206 OFFICE
- 3-207 OFFICE
- 3-208 OFFICE
- 3-209 OFFICE
- 3-210 OFFICE
- 3-211 STAIRWAY
- 3-212 CORRIDOR
- 3-213 OFFICE
- 3-214 OFFICE
- 3-215 OFFICE
- 3-216 OFFICE
- 3-217 OFFICE
- 3-218 OFFICE
- 3-219 OFFICE
- 3-220 CORRIDOR
- 3-221 OFFICE
- 3-222 OFFICE
- 3-223 OFFICE
- 3-224 OFFICE
- 3-225 OFFICE
- 3-226 OFFICE
- 3-227 LUNCHROOM
- 3-228 CLOSET
- 3-229 OFFICE
- 3-230 STAIRWAY
- 3-231A OFFICE
- 3-231B OFFICE
- 3-232 WALKWAY

DEMOLITION GENERAL NOTES (FOR BUILDINGS 1, 2, & 3):

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- EXISTING FIRE ALARM SYSTEM IS TO REMAIN OPERATIONAL UNTIL NEW SYSTEM IS FULLY FUNCTIONAL AND VERIFICATION IS COMPLETE. DOWNTIME OF THE FIRE ALARM SYSTEM SHALL BE LIMITED AND FIRE WATCH SHOULD BE ALLOWED FOR IN THE BID DURING DOWNTIME OF THE FIRE ALARM SYSTEM.
- ALL EXISTING CONDUIT RUNS SHOWN ON DEMOLITION DRAWINGS ARE FOR DIAGRAMMATIC PURPOSES ONLY AND NOT ALL EXISTING CONDUIT RUNS MAY BE SHOWN. CONTRACTOR TO EXAMINE SITE PRIOR TO BID.

DEMOLITION KEYNOTES:

- CONFIRM EXACT LOCATION OF DETECTORS IN MECHANICAL ROOMS, MAINTENANCE AREAS, ETC. ON SITE.
- AREA DENOTED BY HATCH HAS BEEN ABANDONED AND DEMOLITION OF EXISTING DEVICES, CONDUIT, CABLING, ETC. IS NOT INCLUDED IN THE SCOPE OF THIS PROJECT. (APPLICABLE TO BUILDING 2 BASEMENT - REFER TO DWG E2.01).
- NOT USED.
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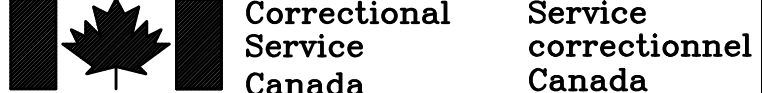
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FIRE ALARM UPGRADE

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IS	RE	DATE	DESCRIPTION
A		2018/09/26	ISSUED FOR TENDER

PROJECT NO: 171-04506-00	DATE: 2018/09/26
ORIGINAL SCALE: AS NOTED	IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.
DESIGNED BY: L. SHADE	
DRAWN BY: L. SHADE	
CHECKED BY: J. ESPINO	

DISCIPLINE: ELECTRICAL

TITLE:

BUILDING 3 - SECOND FLOOR
FIRE ALARM DEMOLITION

SHEET NUMBER:

E3.03

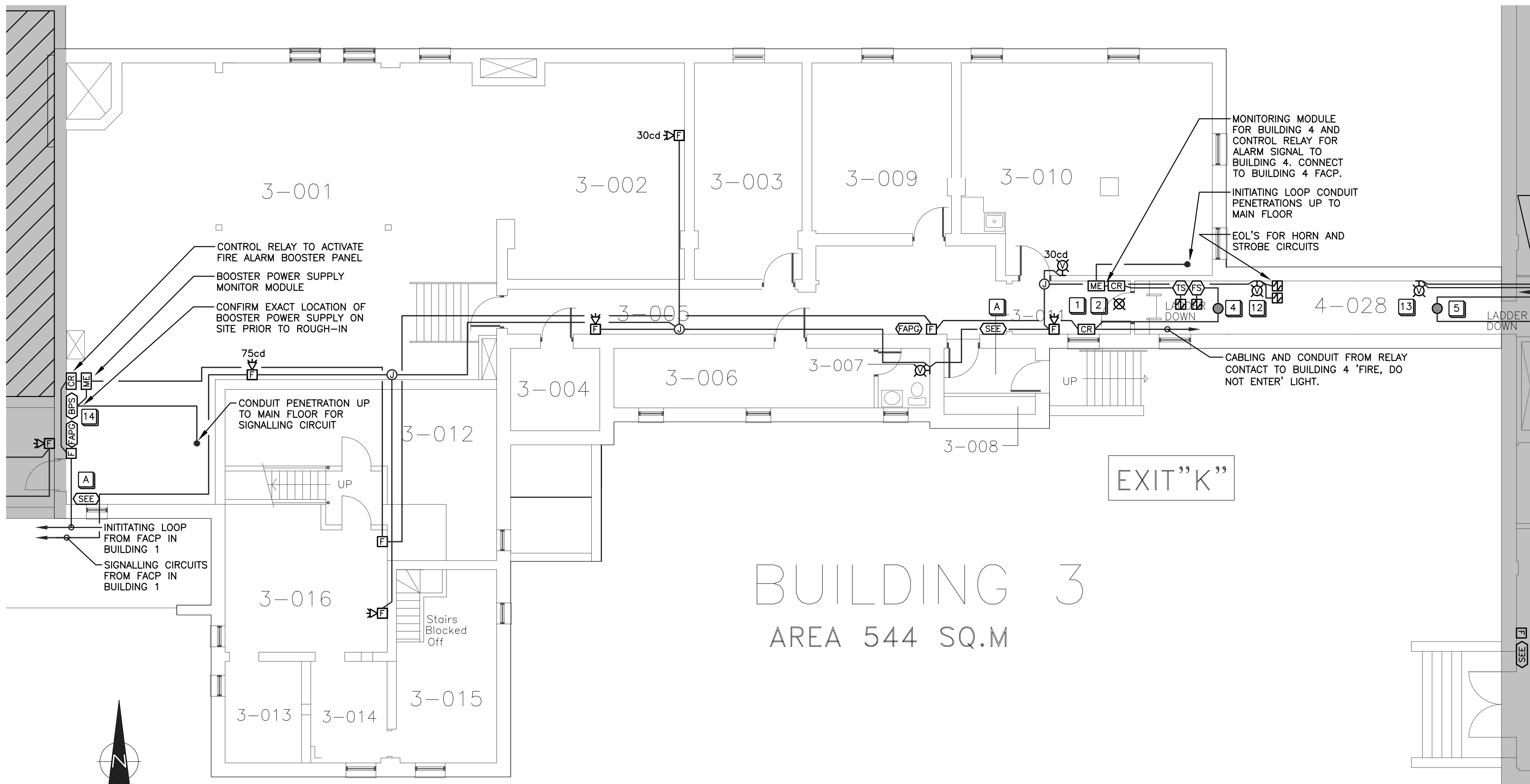
SHEET # 16 OF 28

ISSUE:

ISSUED FOR TENDER

DATE OF: 2018/09/26

REV # A



1 BUILDING 3 BASEMENT CONSTRUCTION
E3.11 SCALE 1:100

ROOM LEGEND
BUILDING 3

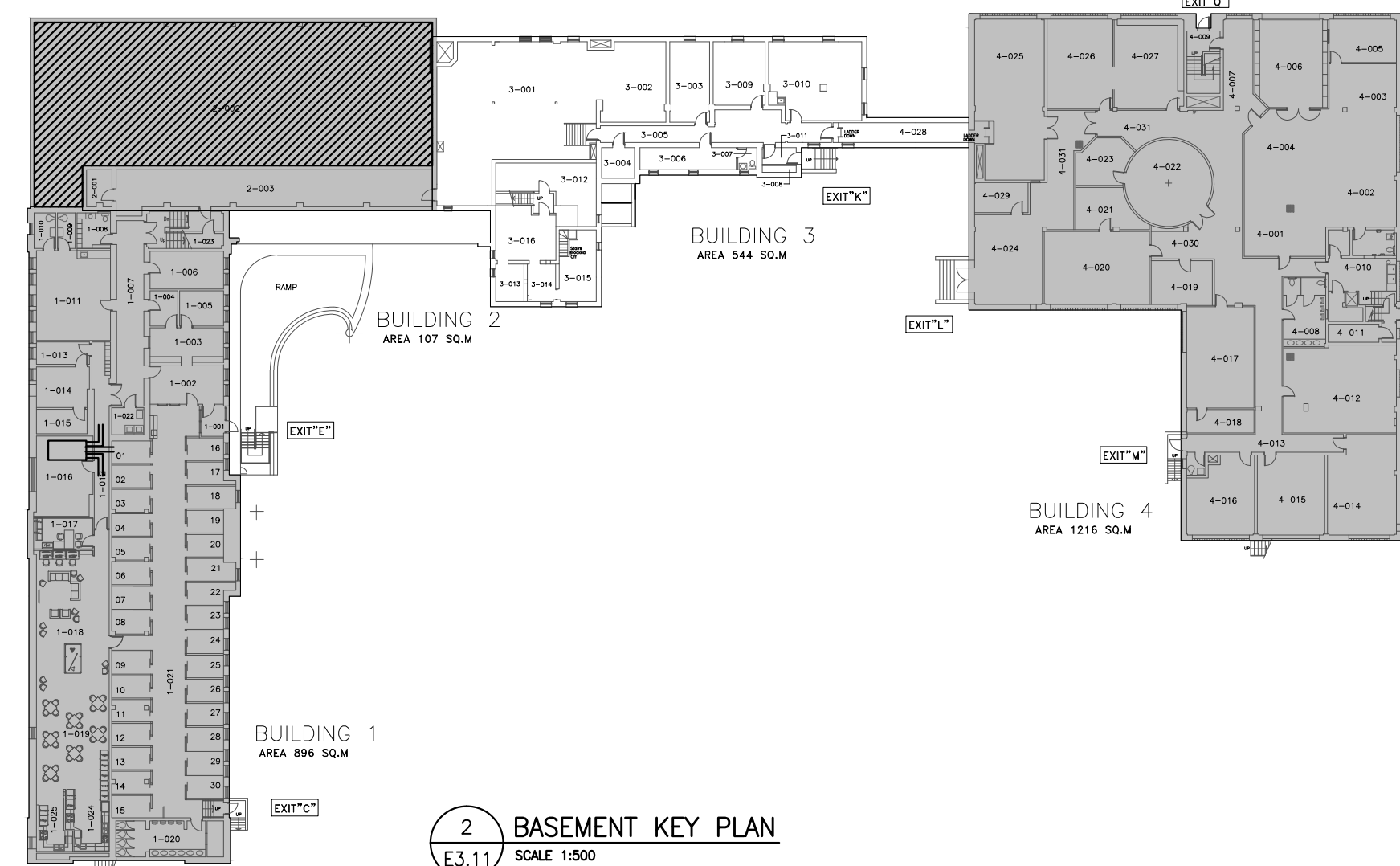
- 3-001 BOILER ROOM
- 3-002 ELECTRICAL ROOM
- 3-003 PLUMBING SHOP
- 3-004 STORAGE - CHEMICAL
- 3-005 CORRIDOR
- 3-006 PLUMBING SHOP
- 3-007 STAFF WASHROOM
- 3-008 STORAGE
- 3-009 STORAGE
- 3-010 CARPENTRY SHOP
- 3-011 VESTIBULE
- 3-012 STORAGE
- 3-013 STORAGE
- 3-014 STORAGE
- 3-015 STORAGE
- 3-016 STORAGE

CONSTRUCTION GENERAL NOTES (FOR BUILDINGS 1, 2, & 3):

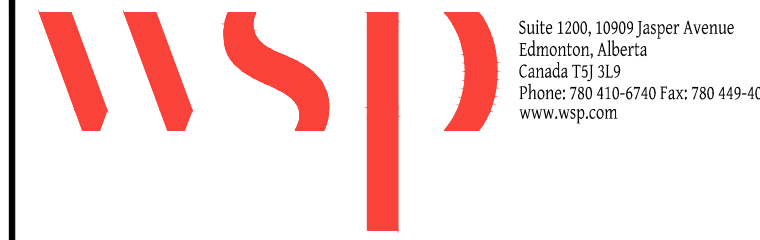
1. DEVICES SHOWN ARE TO BE NEW UNLESS OTHERWISE NOTED.
2. NEW DEVICES LOCATED IN BUILDINGS 1, 2, AND 3 ARE TO BE TIED INTO FIRE ALARM CONTROL PANEL LOCATED IN BUILDING 1.
3. NEW DEVICES LOCATED IN BUILDING 4 ARE TO BE TIED INTO NEW FIRE ALARM CONTROL PANEL LOCATED IN BUILDING 4.
4. EACH FIRE ALARM CONTROL PANEL WILL SEND A SUPERVISORY SIGNAL TO THE OTHER PANEL WHEN THE SYSTEM IT MONITORS GOES INTO ALARM. CONNECTION BETWEEN THE FIRE ALARM PANELS SHALL BE ROUTED THROUGH THE TUNNELS CONNECTING BUILDING 3 AND BUILDING 4. CONDUIT SHALL NOT PENETRATE THE EXTERIOR OF THE BUILDING.
5. CONTRACTOR TO CONFIRM EXACT CEILING AND WALL TYPES IN EACH ROOM AS WELL AS CONSIDER ANY HAZARDOUS MATERIAL CONSIDERATIONS, TO DETERMINE MOUNTING REQUIREMENTS PRIOR TO INSTALLATION.
6. ALL CONDUITS, CABLES AND JUNCTION BOXES ARE TO BE NEW. NEW CONDUIT ROUTING AND JUNCTION BOXES ARE SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. CONTRACTOR TO CONFIRM EXACT CONDUIT RUNS AND PENETRATIONS ON SITE. ENSURE EXISTING FIRE ALARM SYSTEM REMAINS OPERATIONAL DURING CONSTRUCTION OF THE NEW FIRE ALARM SYSTEM.
7. EXISTING FIRE SEPARATIONS ARE TO BE MAINTAINED. THIS IS TO INCLUDE, BUT IS NOT LIMITED TO, BETWEEN FLOORS AND BETWEEN BUILDINGS.
8. ALL DEVICES TO BE FED VIA IDENTIFIED FIRE ALARM CONDUIT C/W 4-WIRES.
9. ALL FIRE ALARM STROBE CANDELA RATINGS ARE 15cd UNLESS OTHERWISE NOTED ADJACENT TO DEVICE. ALL STROBES TO BE SYNCHRONIZED.
10. SMOKE DETECTORS C/W LOCALIZED ALARMS SHALL BE INSTALLED IN SLEEPING ROOMS. THESE DEVICES WILL SOUND LOCALLY WHEN SMOKE IS DETECTED AND CEASE WHEN THE SMOKE HAS CLEARED. A SUPERVISORY SIGNAL WILL BE SENT TO THE FIRE ALARM PANEL. PROVIDE DC CIRCUIT TO ALL THE SOUNDER BASES IN BEDROOMS. CONFIRM EXACT DC VOLTAGE WITH MANUFACTURER.
11. CONDUIT SHALL BE RECESSED IN ALL AREAS WITH THE EXCEPTION OF AREAS CONSISTING OF BRICK OR TILE OR IN MECHANICAL OR ELECTRICAL ROOMS. SURFACE CONDUIT IN THESE AREAS SHALL BE PAINTED TO MATCH THE COLOUR OF THE WALL/CEILING.
12. CONTRACTOR TO REPLACE ALL EXISTING PASSIVE GRAPHICS AND PROVIDE NEW IN THE LOCATIONS SHOWN ON THE CONSTRUCTION DRAWINGS. CONTRACTOR TO SUPPLY FOUR (4) ADDITIONAL PASSIVE GRAPHICS TO DEPARTMENTAL REPRESENTATIVE.
13. CONTRACTOR TO PROVIDE A BUILDING GRAPHIC SIMILAR TO PHOTO 3 ON DRAWING E2.11 AT THE SAME LOCATIONS AS ALL PASSIVE GRAPHICS. IT IS TO INCLUDE, BUT NOT LIMITED TO, THE EMERGENCY LIGHTING, FIRE EXTINGUISHERS LOCATIONS, AND ALL FIRE ALARM SYSTEM DEVICES. WSP TO PROVIDE CAD FILES TO CONTRACTOR TO UPDATE AND CONFIRM LOCATIONS. CONTRACTOR TO SUPPLY AN ADDITIONAL FOUR (4) BUILDING GRAPHICS TO DEPARTMENTAL REPRESENTATIVE.
14. CONTRACTOR TO AVOID PLACING NEW DEVICES ON WALLS WITH SPECIALTY PAINTING. CONTRACTOR TO RELOCATE NEW DEVICE AS REQUIRED TO NEAREST CLEAR WALL SPACE. REFER TO DETAIL 3 ON DRAWING E1.11 FOR EXAMPLE OF WALL WITH SPECIALTY PAINTING.
15. CONTRACTOR TO INSTALL INITIATING AND SIGNALLING WIRING IN SEPARATE LOOPS FOR EACH BUILDING. REFER TO RISER DIAGRAM FOR REFERENCE.
16. CONTRACTOR TO PROVIDE ADDITIONAL ACCESS HATCHES TO SUIT NEW FIRE ALARM SYSTEM INSTALLATION AS REQUIRED AND DETERMINE NEW LOCATIONS ON SITE. CONTRACTOR TO ALLOW FOR FIVE (5) ADDITIONAL ACCESS HATCHES IN DRYWALL CONTAINING NO ASBESTOS AND FIVE (5) ADDITIONAL ACCESS HATCHES IN DRYWALL CONTAINING MODERATE RISK ASBESTOS ABATEMENT LEVELS.
17. REFER TO TYPICAL FIRE ALARM ISOLATION INSTALLATION DIAGRAM ON DRAWING E5.02.
18. CONTRACTOR IS TO COORDINATE WITH DEPARTMENTAL REPRESENTATIVE TO ENSURE PROPER DESCRIPTION FOR ALL MONITORED SPRINKLER DEVICES TO BE INCLUDED IN NEW FACP PROGRAM.
19. PROVIDE CEILING MOUNTED LAMICIDS FOR CEILING MOUNTED DEVICES (i.e. TAMPER SWITCHES, FLOW SWITCHES, ETC.)
20. CONTRACTOR TO INCLUDE ALL COSTS FOR CONTROLS, START-UP, AND COMMISSIONING FROM CONTROLS MANUFACTURER AND MAINTENANCE CONTRACTOR.

CONSTRUCTION KEYNOTES:

- 1 BILLINGUAL 'FIRE DO NOT ENTER' ILLUMINATED SIGN. ILLUMINATED SIGN TO BE STANPRO SLESS-SLSES-1-WM-WH-IB C/W CUSTOM LETTERING OR APPROVED EQUAL.
- 2 THE SIGN LOCATED IN BUILDING 3 SHALL BE TIED INTO THE FIRE ALARM SYSTEM IN BUILDING 4. WHEN BUILDING 4 IS SENT INTO ALARM, THE SIGN LOCATED IN BUILDING 3 SHALL ILLUMINATE.
- 3 THE SIGN LOCATED IN BUILDING 4 SHALL BE TIED INTO THE FIRE ALARM SYSTEM IN BUILDINGS 1, 2, AND 3. WHEN BUILDINGS 1, 2, AND 3 ARE SENT INTO ALARM, THE SIGN LOCATED IN BUILDING 4 SHALL ILLUMINATE.
- 4 THE DEVICE LOCATED IN BUILDING 3 SHALL BE TIED INTO THE FIRE ALARM SYSTEM FOR BUILDINGS 1, 2, AND 3.
- 5 THE DEVICE LOCATED IN BUILDING 4 SHALL BE TIED INTO THE FIRE ALARM SYSTEM FOR BUILDING 4.
- 6 WEATHER-PROOF STROBE TO BE MOUNTED ON EXTERIOR WALL ABOVE EXISTING SIAMESE CONNECTION.
- 7 NOT USED.
- 8 PULL STATIONS SHALL BE MOUNTED ON DRYWALL PILLAR AS OPPOSED TO BRICK WHEN POSSIBLE. REFER TO DETAIL 4 ON DRAWING E1.11.
- 9 CONTRACTOR TO PROVIDE AN ELECTRICAL SHUT OFF RELAY OPERATED BY THE FIRE ALARM SYSTEM FOR CUTTING ALL HEAT PRODUCING SOURCES OF FUEL AND ELECTRICAL POWER FOR THE COOKING EQUIPMENT. CONTRACTOR TO INCLUDE ALL COST ASSOCIATED TO THE WORK ABOVE IN THEIR BID.
- 10 PROVIDE A HEAT DETECTOR IN ELEVATOR PIT.
- 11 ELECTRICAL CONTRACTOR TO DISCONNECT AND RECONNECT EXISTING DOOR MAGNETIC HOLD OPEN DEVICES AT DOOR. CONTRACTOR TO SUPPLY AND INSTALL FIRE ALARM RELAYS TO THE DOOR INTO FIRE ALARM SYSTEM AS REQUIRED.
- 12 LAMICOID STATING IN ENGLISH AND FRENCH "WHEN THIS STROBE IS ON, BUILDING 3 IS IN ALARM - DO NOT ENTER."
- 13 LAMICOID STATING IN ENGLISH AND FRENCH "WHEN THIS STROBE IS ON, BUILDING 4 IS IN ALARM - DO NOT ENTER."
- 14 SINGLE BOOSTER POWER SUPPLY SHOWN FOR BUILDING 3. CONTRACTOR TO DETERMINE IF ADDITIONAL BOOSTER POWER SUPPLIES ARE REQUIRED FOR BUILDING 3 AND REMAINDER OF BUILDINGS. CONTRACTOR TO PROVIDE AND ALLOW FOR ADDITIONAL BOOSTER POWER SUPPLIES IN BID PRICE.
- 15 21mmC c/w 4C#16 FAS TO BUILDING TELEPHONE BACKBOARD FOR AUTODIALER AND MONITORING PANEL. PROVIDE NEW AUTODIALER WITH TWO COMMUNICATION DIAL OUT SIGNALS OUTPUT (PRIMARY AND ALTERNATE PHONE LINES). CONFIRM PHONE NUMBERS WITH PWGSC AND ENSURE TWO TYPES OF TRANSMISSION. PROVIDE NEW MONITORING PANEL THAT IS ULC-S561 COMPLIANT. BOTH AUTODIALER AND MONITORING PANEL ARE TO BE FROM SAME MANUFACTURER. CONTRACTOR TO CONFIRM MODEL OF AUTODIALER AND MONITORING PANEL WITH OWNER AND PROVIDE ALL COSTS FOR SUPPLY AND INSTALLATION OF AUTODIALER / MONITORING PANEL IN THEIR BID.
- 16 REMOTE LED INDICATOR IS TO BE PROVIDED FOR ALL NOT VISIBLE DUCT DETECTORS.
- A CONTRACTOR TO PROVIDE FIRE EMERGENCY PROCEDURE SIGN AT DESIGNATED LOCATIONS. SIGN SHALL INCLUDE ALL ARTICLES NOTED IN NATIONAL FIRE CODE SECTION 2.8.2.1.1.g WRITTEN IN ENGLISH AND FRENCH. CONTRACTOR TO SUBMIT DRAFT COPY TO PUBLIC WORKS, GRIERSON AND CONSULTANT FOR REVIEW PRIOR TO ORDERING SIGNS. CONTRACTOR TO PROVIDE FOUR (4) ADDITIONAL COPIES OF EMERGENCY PROCEDURE SIGNS TO BE INSTALLED AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE.



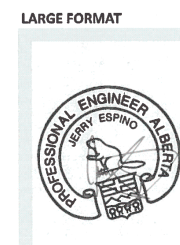
2 BASEMENT KEY PLAN
E3.11 SCALE 1:500



CONSULTANT:

SEAL:

PERMIT TO PRACTICE
WSP Canada Inc.
PERMIT NUMBER: P07641
The Association of Professional
Engineers and Geoscientists of Alberta



CLIENT:



CLIENT REF. #: CLIENT_REFERENCE_#

PROJECT:

GRIERSON & STAN DANIELS CENTRE
FIRE ALARM UPGRADE

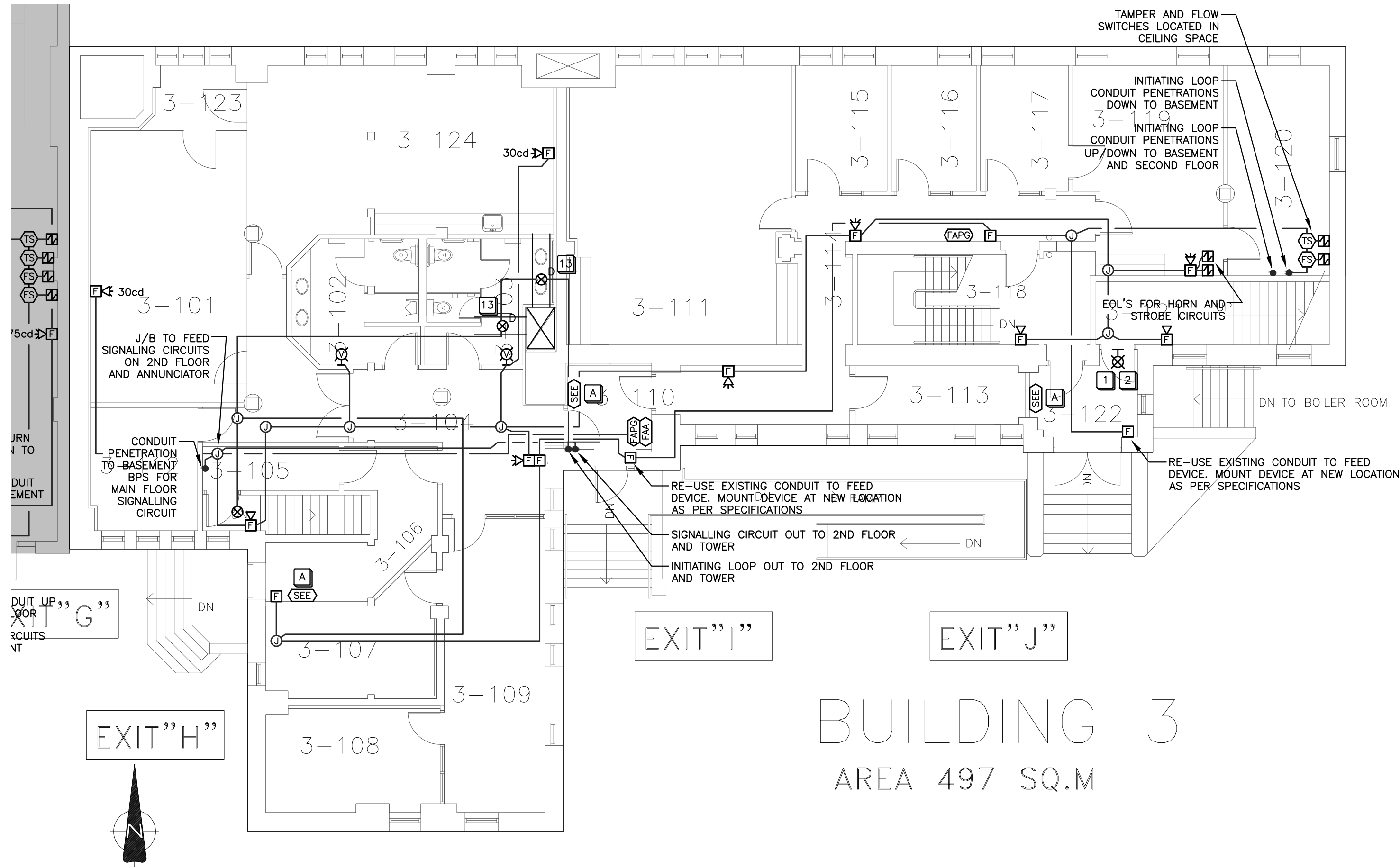
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ORIGINAL SCALE: AS NOTED
DESIGNED BY: L. SHADE
DRAWN BY: L. SHADE
CHECKED BY: J. ESPINO
DISCIPLINE: ELECTRICAL
TITLE: BUILDING 3 - BASEMENT FIRE ALARM CONSTRUCTION
SHEET NUMBER: E3.11
SHEET #: 17 OF 28
ISSUE: ISSUED FOR TENDER
DATE OF: 2018/09/26
REV # A



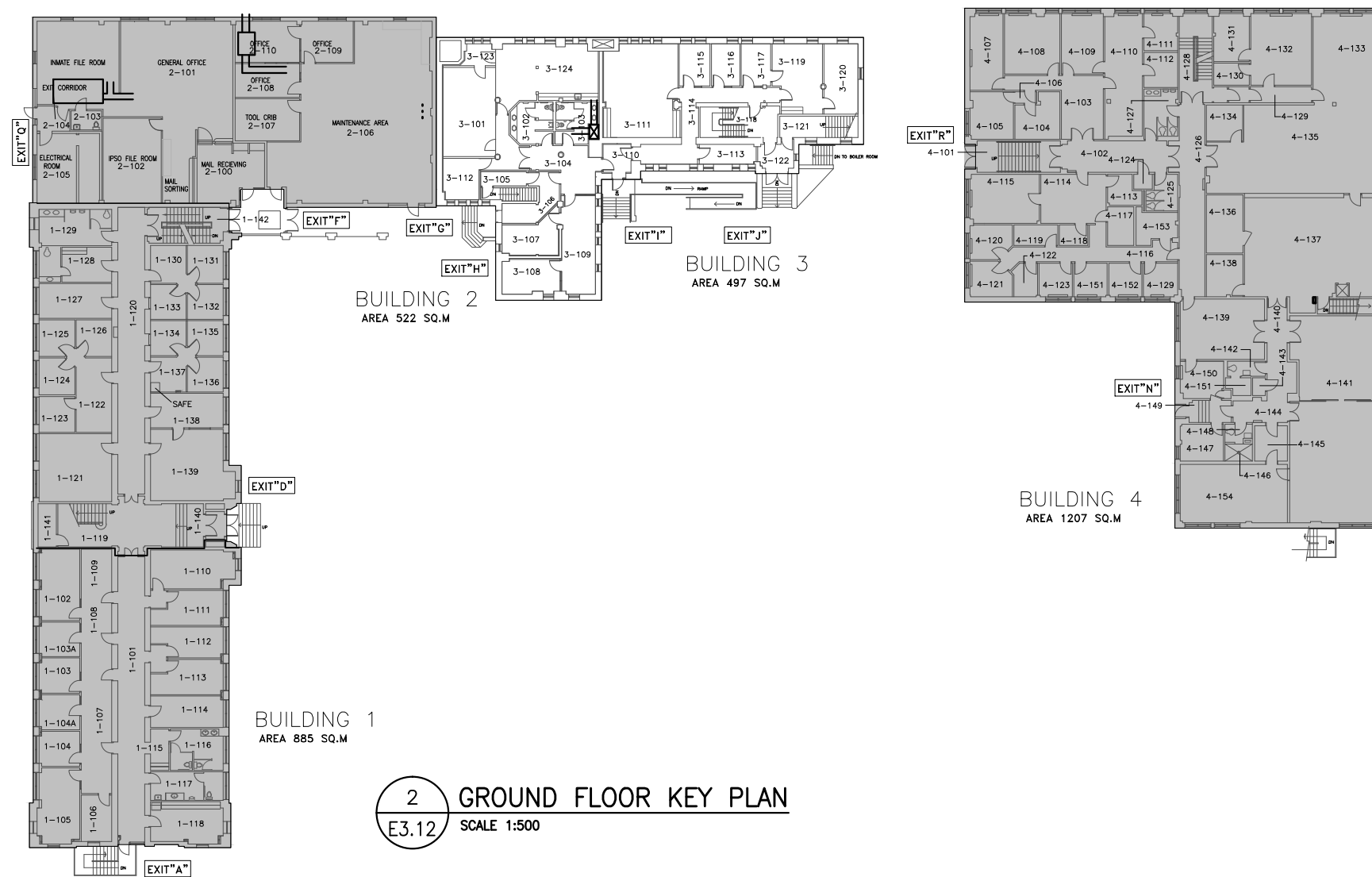
1 BUILDING 3 GROUND FLOOR CONSTRUCTION
E3.12 SCALE 1:100

ROOM LEGEND BUILDING 3

- 3-101 PROGRAM ROOM 2
- 3-102 WASHROOM
- 3-103 WASHROOM
- 3-104 CORRIDOR
- 3-105 CORRIDOR
- 3-106 CORRIDOR
- 3-107 OFFICE
- 3-108 OFFICE
- 3-109 OFFICE
- 3-110 CORRIDOR
- 3-111 PROGRAM ROOM 3
- 3-112 OFFICE
- 3-113 OFFICE
- 3-114 CORRIDOR
- 3-115 OFFICE
- 3-116 OFFICE
- 3-117 HEALTH CARE
- 3-118 STAIRWAY
- 3-119 OFFICE
- 3-120 OFFICE
- 3-121 PROGRAM ROOM 1
- 3-122 VESTIBULE
- 3-123 VESTIBULE
- 3-124 VESTIBULE

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 - 7 NOT USED.
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 - 9 CONTRACTOR TO PROVIDE AN ELECTRICAL SHUT OFF RELAY OPERATED BY THE FIRE ALARM SYSTEM FOR CUTTING ALL HEAT PRODUCING SOURCES OF FUEL AND ELECTRICAL POWER FOR THE COOKING EQUIPMENT. CONTRACTOR TO INCLUDE ALL COST ASSOCIATED TO IT ABOVE IN THEIR BID.
 - 10 PROVIDE A HEAT DETECTOR IN ELEVATOR PIT.
 - 11 ELECTRICAL CONTRACTOR TO DISCONNECT AND RECONNECT EXISTING DOOR MAGNETIC HOLD OPEN DEVICES AT DOOR. CONTRACTOR SUPPLY AND INSTALL FIRE ALARM RELAYS TO TIE DOOR INTO FIRE ALARM SYSTEM AS REQUIRED.
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 - 15 21mmC c/w 4C#16 FAS TO BUILDING TELEPHONE BACKBOARD FOR AUTODIALER AND MONITORING PANEL. PROVIDE NEW AUTODIALER TWO COMMUNICATION DIAL OUT SIGNALS OUTPUT (PRIMARY AND ALTERNATE PHONE LINES). CONFIRM PHONE NUMBERS WITH PWSCS. ENSURE TWO TYPES OF TRANSMISSION. PROVIDE NEW MONITORING PANEL THAT IS UL-C-5561 COMPLIANT. BOTH AUTODIALER AND MONITORING PANEL ARE TO BE FROM SAME MANUFACTURER. CONTRACTOR TO CONFIRM MODEL OF AUTODIALER AND MONITORING P/W WITH OWNER AND PROVIDE ALL COSTS FOR SUPPLY AND INSTALLATION OF AUTODIALER / MONITORING PANEL IN THEIR BID.
 - 16 REMOTE LED INDICATOR IS TO BE PROVIDED FOR ALL NOT VISIBLE DUCT DETECTORS.
- A CONTRACTOR TO PROVIDE FIRE EMERGENCY PROCEDURE SIGN AT DESIGNATED LOCATIONS. SIGN SHALL INCLUDE ALL ARTICLES NOTE NATIONAL FIRE CODE SECTION 2.8.2.1.1.0 WRITTEN IN ENGLISH AND FRENCH. CONTRACTOR TO SUBMIT DRAFT COPY TO PUBLIC WORKS GRIERSON AND CONSULTANT FOR REVIEW PRIOR TO ORDERING SIGNS. CONTRACTOR TO PROVIDE FOUR (4) ADDITIONAL COPIES OF EMERGENCY PROCEDURE SIGNS TO BE INSTALLED AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE.



2 GROUND FLOOR KEY PLAN
E3.12 SCALE 1:500



CONSULTANT:

SEAL:

PERMIT TO PRACTICE
WSP Canada Inc.
PERMIT NUMBER: P07641
The Association of Professional
Engineers and Geoscientists of Alberta

CLIENT:

Correctional Service Canada
Service correctionnel Canada

CLIENT REF. #: CLIENT_REFERENCE_#
PROJECT:

GRIERSON & STAN DANIELS CENTRE
FIRE ALARM UPGRADE

KEY PLAN:

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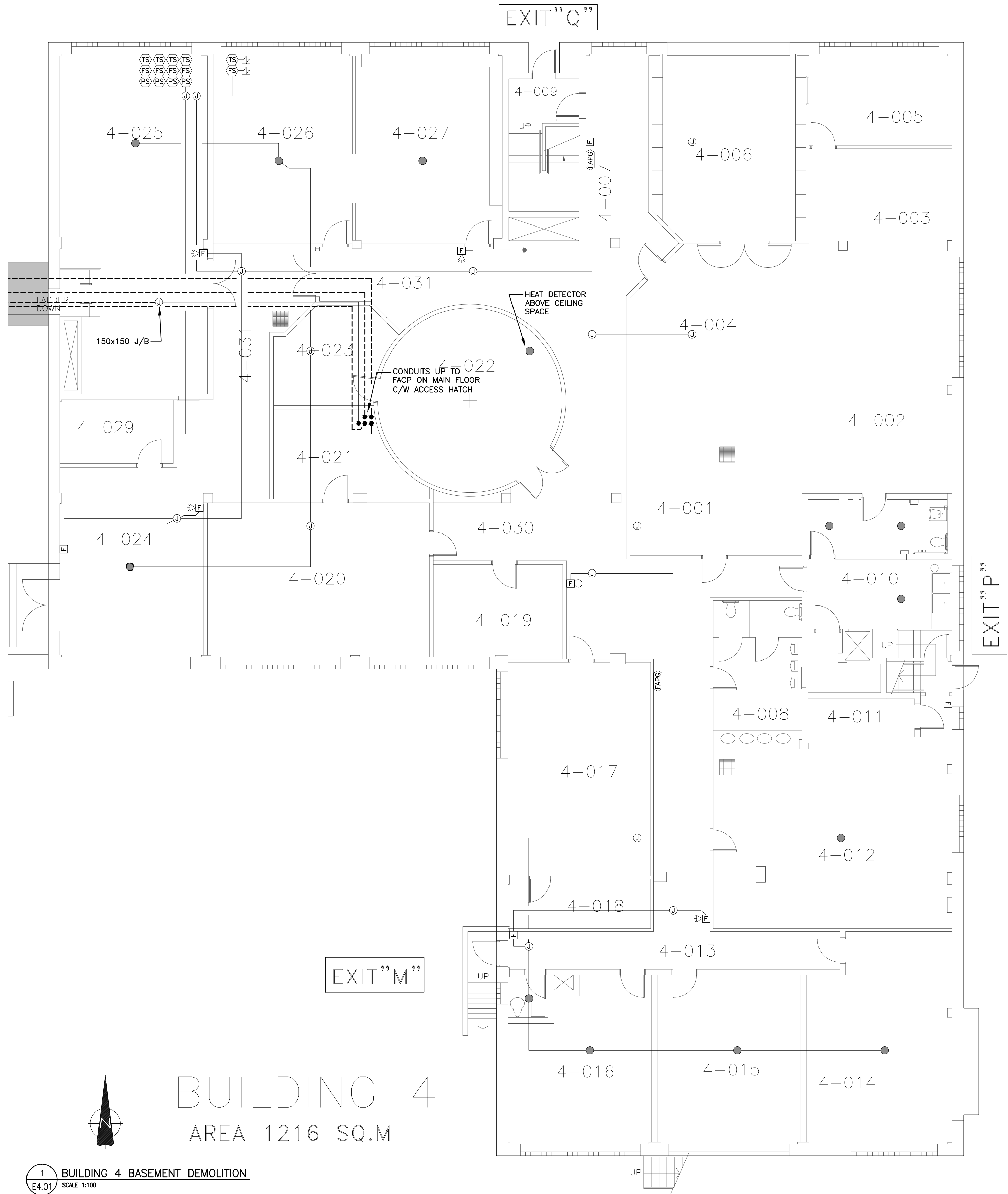
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DESIGNED BY: L. SHADE
DRAWN BY: L. SHADE
CHECKED BY: J. ESPINO
DISCIPLINE: ELECTRICAL

TITLE: BUILDING 3 - GROUND FLOOR
FIRE ALARM CONSTRUCTION

SHEET NUMBER: E3.12
SHEET #: 18 OF 28
ISSUE: ISSUED FOR TENDER
DATE OF: 2018/09/26
REV # A



ROOM LEGEND
BUILDING 4

- 4-001 STORAGE
- 4-002 STORAGE
- 4-003 STORAGE
- 4-004 STORAGE
- 4-005 OFFICE
- 4-006 GARAGE
- 4-007 CORRIDOR
- 4-008 WASHROOM
- 4-009 STAIRWAY - NORTH EXIT
- 4-010 DUMBWAITER
- 4-011 COOLER
- 4-012 BACK TO WORK
- 4-013 CORRIDOR - WASHROOM
- 4-014 INMATE HOBBY ROOM
- 4-015 PROPERTY ROOM
- 4-016 STORAGE
- 4-017 PROGRAM ROOM 2
- 4-018 STORAGE
- 4-019 FACILITATOR
- 4-020 PROGRAM ROOM 1
- 4-021 STORAGE
- 4-022 CEREMONIAL ROOM
- 4-023 STORAGE
- 4-024 EXIT
- 4-025 MECHANICAL ROOM
- 4-026 GYMNASIUM
- 4-027 RECREATION
- 4-028 CORRIDOR
- 4-029 MECHANICAL ROOM
- 4-030 CORRIDOR
- 4-031 CORRIDOR

DEMOLITION GENERAL NOTES (FOR BUILDING 4):

- ALL DEVICES ARE TO BE REPLACED. CONTRACTOR TO RE-USE EXISTING CONDUIT AND CABLE. PROVIDE ADDITIONAL CONDUIT AND CABLE AS REQUIRED.
- ALL DASHED LINES TO DENOTE TO BE REMOVED BACK TO SOURCE (INCLUDING BUT NOT LIMITED TO, CONDUIT, CABLING, BOXES, FITTINGS, ETC.) UNLESS OTHERWISE NOTED.
- SOLID LINES DENOTE EXISTING CONDUIT AND CABLE TO REMAIN.
- CONTRACTOR IS TO PATCH, REPAIR, AND PAINT CEILINGS, WALLS, AND PENETRATIONS WHERE POSSIBLE. IN AREAS OF BRICK/TILE WALLS, CONTRACTOR IS TO SUPPLY AND INSTALL A STEEL COVER PLATE. THIS IS FOR INITIATING DEVICES, SIGNALING DEVICES, AND END OF LINE RESISTORS. LOCATIONS OF END OF LINE RESISTORS ARE NOT SHOWN ON DRAWINGS.
- REPAIR IS TO INCLUDE REMOVED FIRE SPRAY, INSULATION, ETC. CONTRACTOR TO REPAIR AND PROVIDE FIRE SPRAY, INSULATION, ETC. TO MAINTAIN EXISTING RATING. EXISTING FIRE SEPARATIONS ARE TO BE MAINTAINED.
- EXISTING FIRE ALARM SYSTEM IS TO REMAIN OPERATIONAL UNTIL NEW SYSTEM IS FULLY FUNCTIONAL AND VERIFICATION IS COMPLETE.
- ALL EXISTING CONDUIT RUNS SHOWN ON DEMOLITION DRAWINGS ARE FOR DIAGRAMMATIC PURPOSES ONLY AND NOT ALL EXISTING CONDUIT RUNS MAY BE SHOWN. CONTRACTOR TO EXAMINE SITE PRIOR TO BID.
- CONFIRM EXACT LOCATION OF DETECTORS IN MECHANICAL ROOMS, MAINTENANCE AREAS, ETC. ON SITE.



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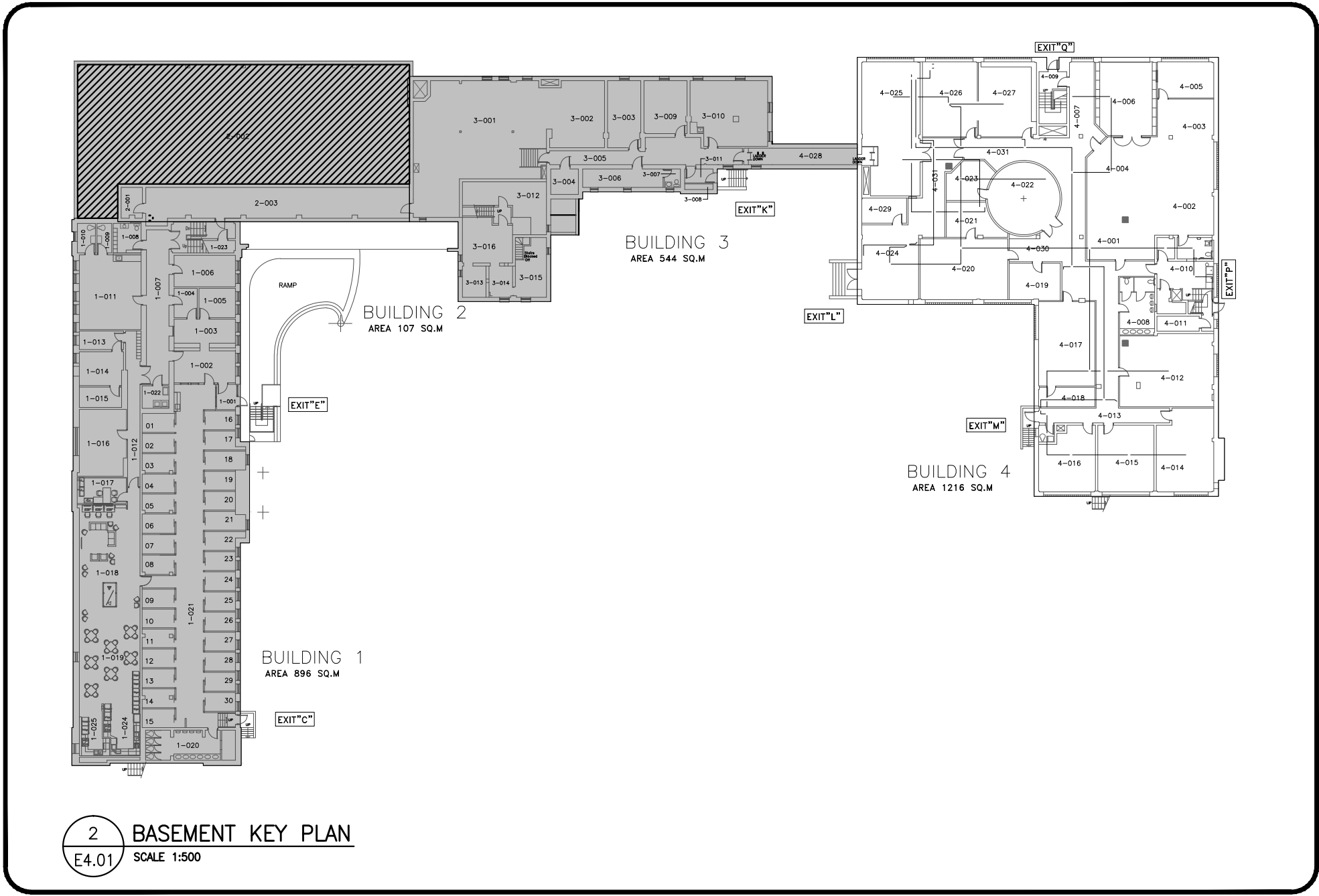
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DESIGNED BY:	L. SHADE		
DRAWN BY:	L. SHADE		
CHECKED BY:	J. ESPINO		
DISCIPLINE:	ELECTRICAL		

TITLE:

BUILDING 4 - BASEMENT
FIRE ALARM DEMOLITION

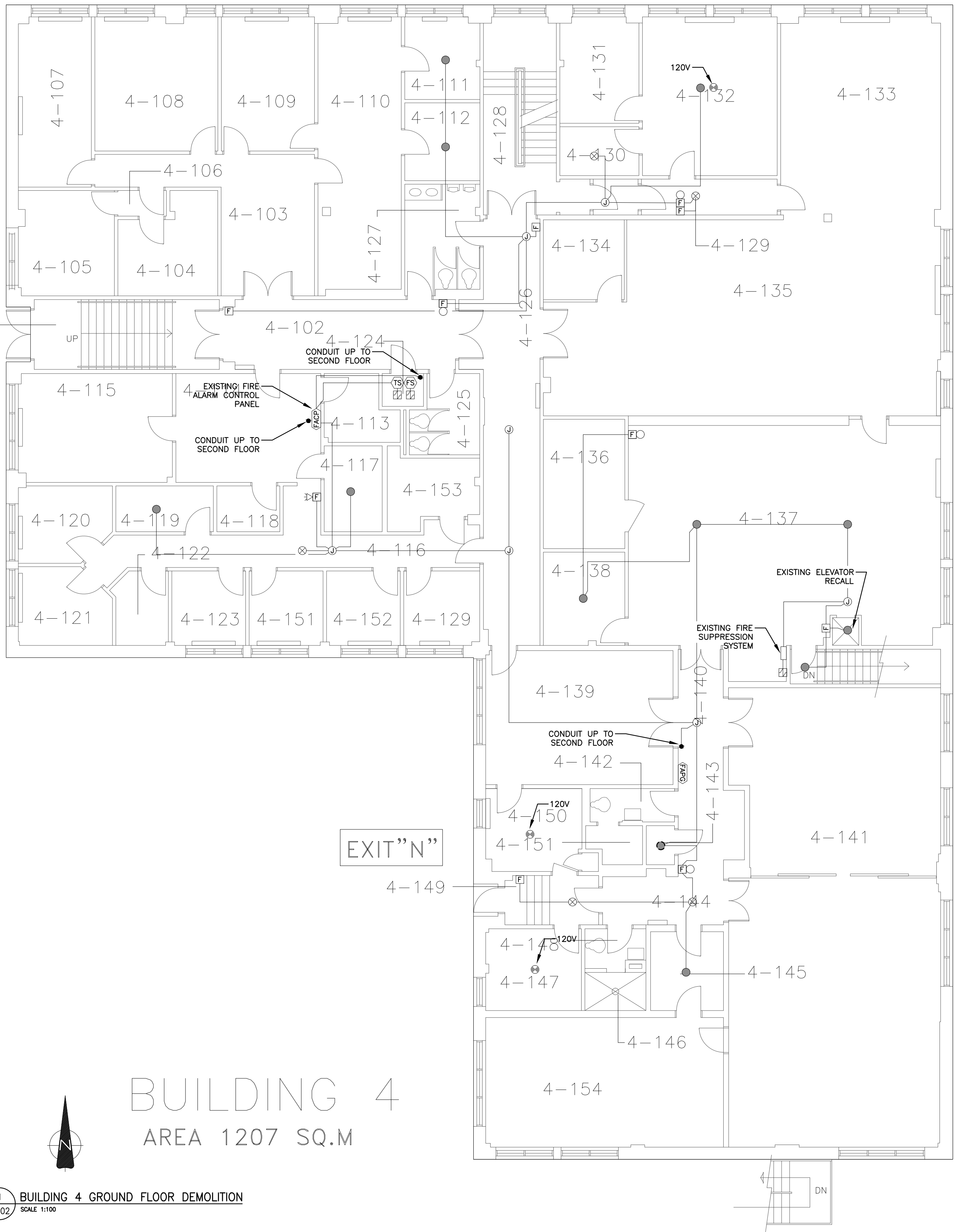
SHEET NUMBER:	E4.01		
SHEET #:	20	OF	28
ISSUE:	ISSUED FOR TENDER		
DATE OF:	2018/09/26	REV #	A



2 BASEMENT KEY PLAN
E4.01 SCALE 1:500

BUILDING 4
AREA 1216 SQ.M

1 BUILDING 4 BASEMENT DEMOLITION
E4.01 SCALE 1:100



1 BUILDING 4 GROUND FLOOR DEMOLITION
SCALE 1:100

ROOM LEGEND
BUILDING 4

4-101	CORRIDOR	4-144	LOUNGE
4-102	CORRIDOR	4-145	STORAGE
4-103	LOBBY	4-146	WASHROOM
4-104	OFFICE	4-147	BEDROOM
4-105	OFFICE	4-148	CORRIDOR
4-106	ENTRY	4-149	VESTIBULE
4-107	OFFICE	4-150	BEDROOM
4-108	OFFICE	4-151	OFFICE
4-109	OFFICE	4-152	OFFICE
4-110	OFFICE	4-153	WASHROOM
4-111	OFFICE	4-154	MEETING ROOM
4-112	OFFICE		
4-113	STORAGE		
4-114	OFFICE		
4-115	OFFICE		
4-116	CORRIDOR		
4-117	HOLDING ROOM		
4-118	STORAGE		
4-119	STORAGE		
4-120	OFFICE		
4-121	OFFICE		
4-122	OFFICE		
4-123	OFFICE		
4-124	MOP ROOM		
4-125	WASHROOM		
4-126	CORRIDOR		
4-127	WASHROOM		
4-128	CORRIDOR		
4-129	CORRIDOR		
4-130	STORAGE		
4-131	STORAGE		
4-132	BEDROOM		
4-133	DINING		
4-134	OFFICE		
4-135	DINING		
4-136	FREEZER		
4-137	KITCHEN		
4-138	STORAGE		
4-139	LOUNGE		
4-140	CORRIDOR		
4-141	LOUNGE		
4-142	WASHROOM		
4-143	STORAGE		

- DEMOLITION GENERAL NOTES (FOR BUILDING 4):
- ALL DEVICES ARE TO BE REPLACED. CONTRACTOR TO RE-USE EXISTING CONDUIT AND CABLE. PROVIDE ADDITIONAL CONDUIT AND CABLE AS REQUIRED.
 - ALL DASHED LINES TO DENOTE TO BE REMOVED BACK TO SOURCE (INCLUDING BUT NOT LIMITED TO, CONDUIT, CABLING, BOXES, FITTINGS, ETC.) UNLESS OTHERWISE NOTED.
 - SOLID LINES DENOTE EXISTING CONDUIT AND CABLE TO REMAIN.
 - CONTRACTOR IS TO PATCH, REPAIR, AND PAINT CEILINGS, WALLS, AND PENETRATIONS WHERE POSSIBLE. IN AREAS OF BRICK/TILE WALLS, CONTRACTOR IS TO SUPPLY AND INSTALL A STEEL COVER PLATE. THIS IS FOR INITIATING DEVICES, SIGNALING DEVICES, AND END OF LINE RESISTORS. LOCATIONS OF END OF LINE RESISTORS ARE NOT SHOWN ON DRAWINGS.
 - REPAIR IS TO INCLUDE REMOVED FIRE SPRAY, INSULATION, ETC. CONTRACTOR TO REPAIR AND PROVIDE FIRE SPRAY, INSULATION, ETC. TO MAINTAIN EXISTING RATING. EXISTING FIRE SEPARATIONS ARE TO BE MAINTAINED.
 - EXISTING FIRE ALARM SYSTEM IS TO REMAIN OPERATIONAL UNTIL NEW SYSTEM IS FULLY FUNCTIONAL AND VERIFICATION IS COMPLETE.
 - ALL EXISTING CONDUIT RUNS SHOWN ON DEMOLITION DRAWINGS ARE FOR DIAGRAMMATIC PURPOSES ONLY AND NOT ALL EXISTING CONDUIT RUNS MAY BE SHOWN. CONTRACTOR TO EXAMINE SITE PRIOR TO BID.
 - CONFIRM EXACT LOCATION OF DETECTORS IN MECHANICAL ROOMS, MAINTENANCE AREAS, ETC. ON SITE.



CONSULTANT:

SEAL:

PERMIT TO PRACTICE
WSP Canada Inc.
PERMIT NUMBER: P07641
The Association of Professional
Engineers and Geoscientists of Alberta

LARGE FORMAT



CLIENT:



CLIENT REF. #: CLIENT_REFERENCE_#

PROJECT:

GRIERSON & STAN DANIELS CENTRE
FIRE ALARM UPGRADE

KEY PLAN:

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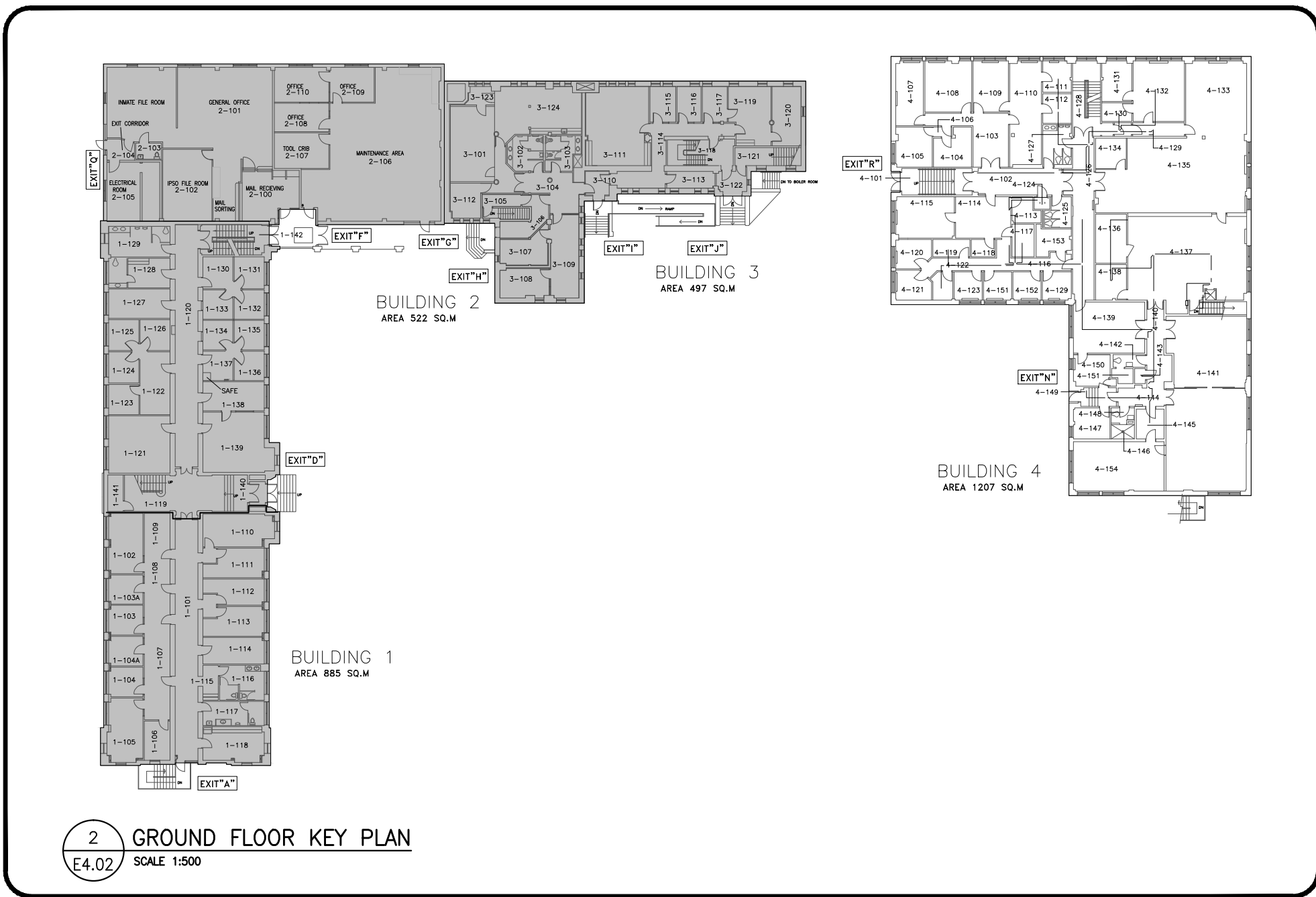
IS	RE	DATE	DESCRIPTION
A		2018/09/26	ISSUED FOR TENDER

PROJECT NO: 171-04506-00	DATE: 2018/09/26
ORIGINAL SCALE: AS NOTED	IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.
DESIGNED BY: L. SHADE	
DRAWN BY: L. SHADE	
CHECKED BY: J. ESPINO	

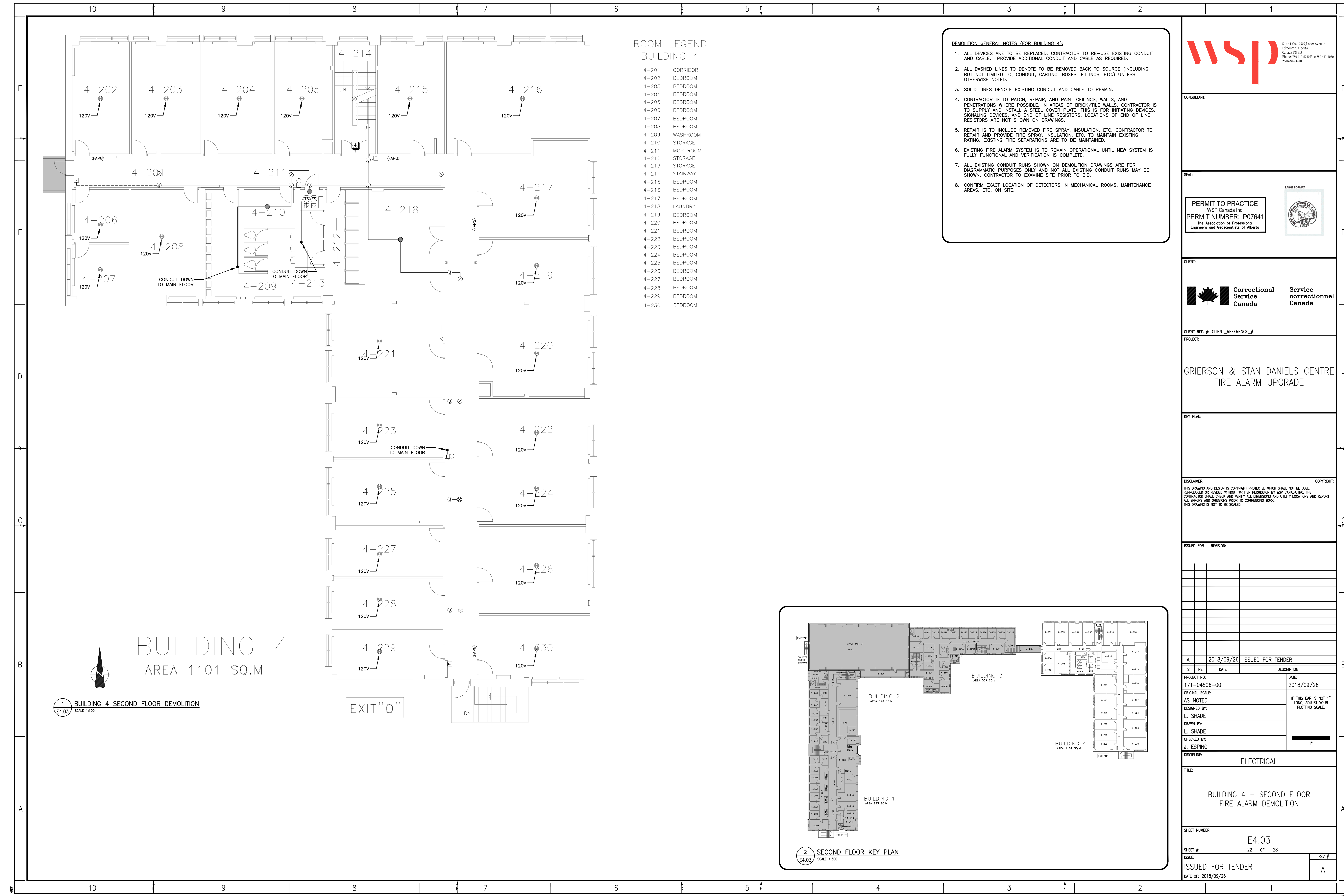
DISCIPLINE: ELECTRICAL

TITLE: BUILDING 4 - GROUND FLOOR
FIRE ALARM DEMOLITION

SHEET NUMBER: E4.02	REV # A
SHEET #: 21 OF 28	
ISSUE: ISSUED FOR TENDER	
DATE OF: 2018/09/26	



2 GROUND FLOOR KEY PLAN
SCALE 1:500



ROOM LEGEND
BUILDING 4

- 4-201 CORRIDOR
- 4-202 BEDROOM
- 4-203 BEDROOM
- 4-204 BEDROOM
- 4-205 BEDROOM
- 4-206 BEDROOM
- 4-207 BEDROOM
- 4-208 BEDROOM
- 4-209 WASHROOM
- 4-210 STORAGE
- 4-211 MOP ROOM
- 4-212 STORAGE
- 4-213 STAIRWAY
- 4-214 BEDROOM
- 4-216 BEDROOM
- 4-217 BEDROOM
- 4-218 LAUNDRY
- 4-219 BEDROOM
- 4-220 BEDROOM
- 4-221 BEDROOM
- 4-222 BEDROOM
- 4-223 BEDROOM
- 4-224 BEDROOM
- 4-225 BEDROOM
- 4-226 BEDROOM
- 4-227 BEDROOM
- 4-228 BEDROOM
- 4-229 BEDROOM
- 4-230 BEDROOM

DEMOLITION GENERAL NOTES (FOR BUILDING 4):

- ALL DEVICES ARE TO BE REPLACED. CONTRACTOR TO RE-USE EXISTING CONDUIT AND CABLE. PROVIDE ADDITIONAL CONDUIT AND CABLE AS REQUIRED.
- ALL DASHED LINES TO DENOTE TO BE REMOVED BACK TO SOURCE (INCLUDING BUT NOT LIMITED TO, CONDUIT, CABLING, BOXES, FITTINGS, ETC.) UNLESS OTHERWISE NOTED.
- SOLID LINES DENOTE EXISTING CONDUIT AND CABLE TO REMAIN.
- CONTRACTOR IS TO PATCH, REPAIR, AND PAINT CEILINGS, WALLS, AND PENETRATIONS WHERE POSSIBLE. IN AREAS OF BRICK/TILE WALLS, CONTRACTOR IS TO SUPPLY AND INSTALL A STEEL COVER PLATE. THIS IS FOR INITIATING DEVICES, SIGNALING DEVICES, AND END OF LINE RESISTORS. LOCATIONS OF END OF LINE RESISTORS ARE NOT SHOWN ON DRAWINGS.
- REPAIR IS TO INCLUDE REMOVED FIRE SPRAY, INSULATION, ETC. CONTRACTOR TO REPAIR AND PROVIDE FIRE SPRAY, INSULATION, ETC. TO MAINTAIN EXISTING RATING. EXISTING FIRE SEPARATIONS ARE TO BE MAINTAINED.
- EXISTING FIRE ALARM SYSTEM IS TO REMAIN OPERATIONAL UNTIL NEW SYSTEM IS FULLY FUNCTIONAL AND VERIFICATION IS COMPLETE.
- ALL EXISTING CONDUIT RUNS SHOWN ON DEMOLITION DRAWINGS ARE FOR DIAGRAMMATIC PURPOSES ONLY AND NOT ALL EXISTING CONDUIT RUNS MAY BE SHOWN. CONTRACTOR TO EXAMINE SITE PRIOR TO BID.
- CONFIRM EXACT LOCATION OF DETECTORS IN MECHANICAL ROOMS, MAINTENANCE AREAS, ETC. ON SITE.



CONSULTANT:

SEAL:

PERMIT TO PRACTICE
WSP Canada Inc.
PERMIT NUMBER: P07641
The Association of Professional
Engineers and Geoscientists of Alberta



CLIENT:



CLIENT REF. #: CLIENT_REFERENCE_#

PROJECT:

GRIERSON & STAN DANIELS CENTRE
FIRE ALARM UPGRADE

KEY PLAN:

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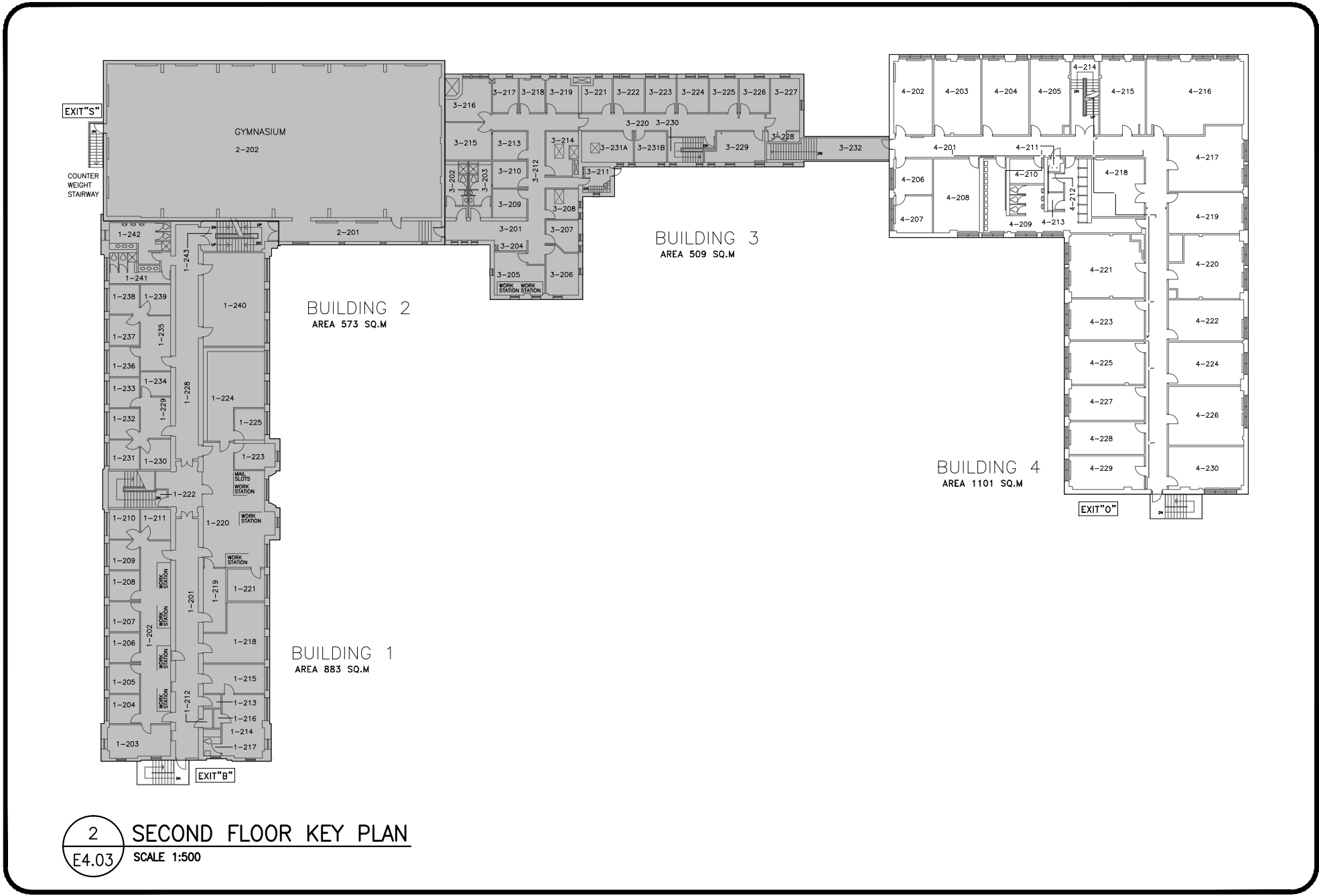
PROJECT NO:	171-04506-00	DATE:	2018/09/26
ORIGINAL SCALE:	AS NOTED		IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.
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DRAWN BY:	L. SHADE		
CHECKED BY:	J. ESPINO		

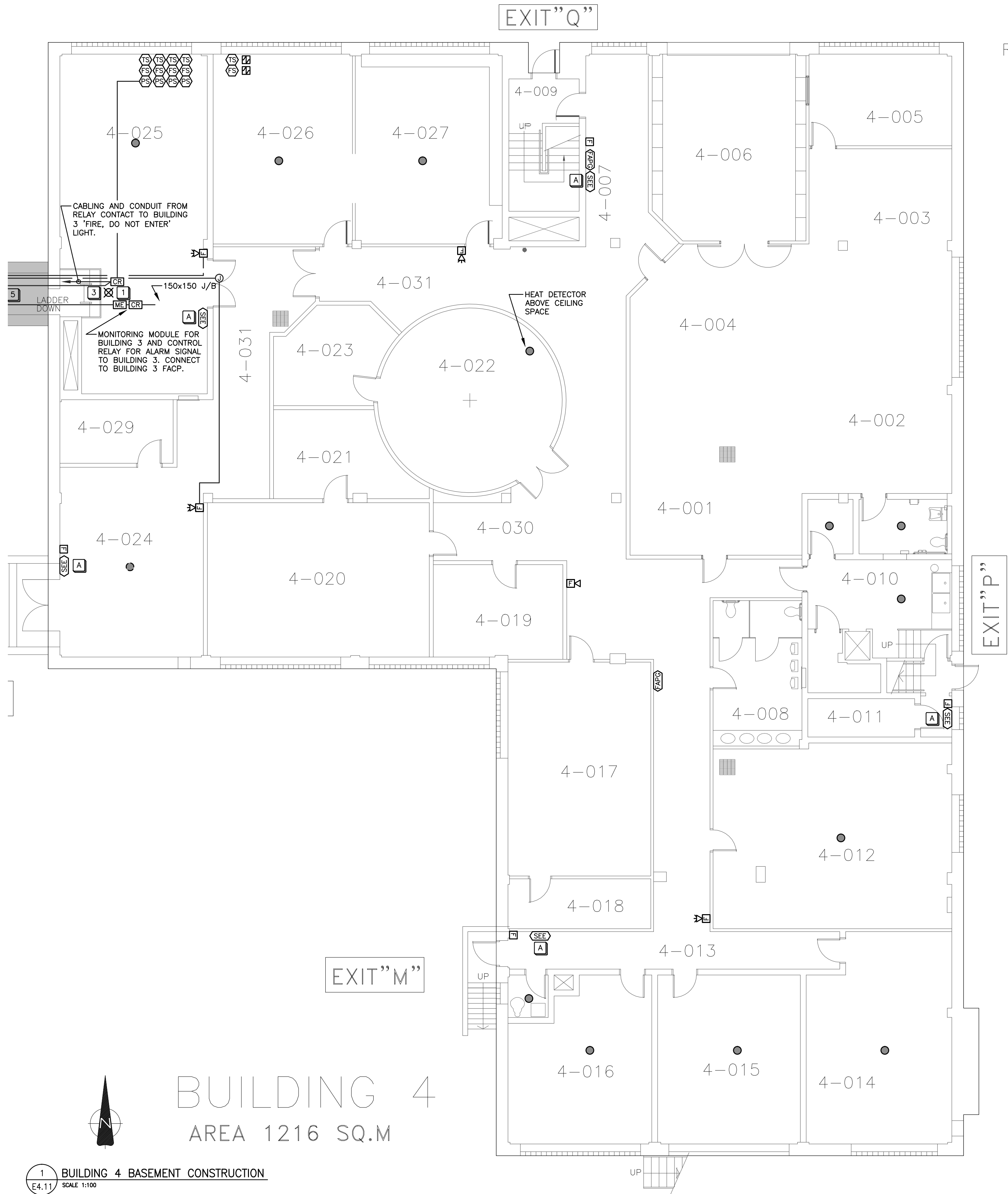
DISCIPLINE: ELECTRICAL

TITLE:

BUILDING 4 - SECOND FLOOR
FIRE ALARM DEMOLITION

SHEET NUMBER:	E4.03
SHEET #:	22 OF 28
ISSUE:	ISSUED FOR TENDER
DATE OF:	2018/09/26
REV #	A





ROOM LEGEND BUILDING 4

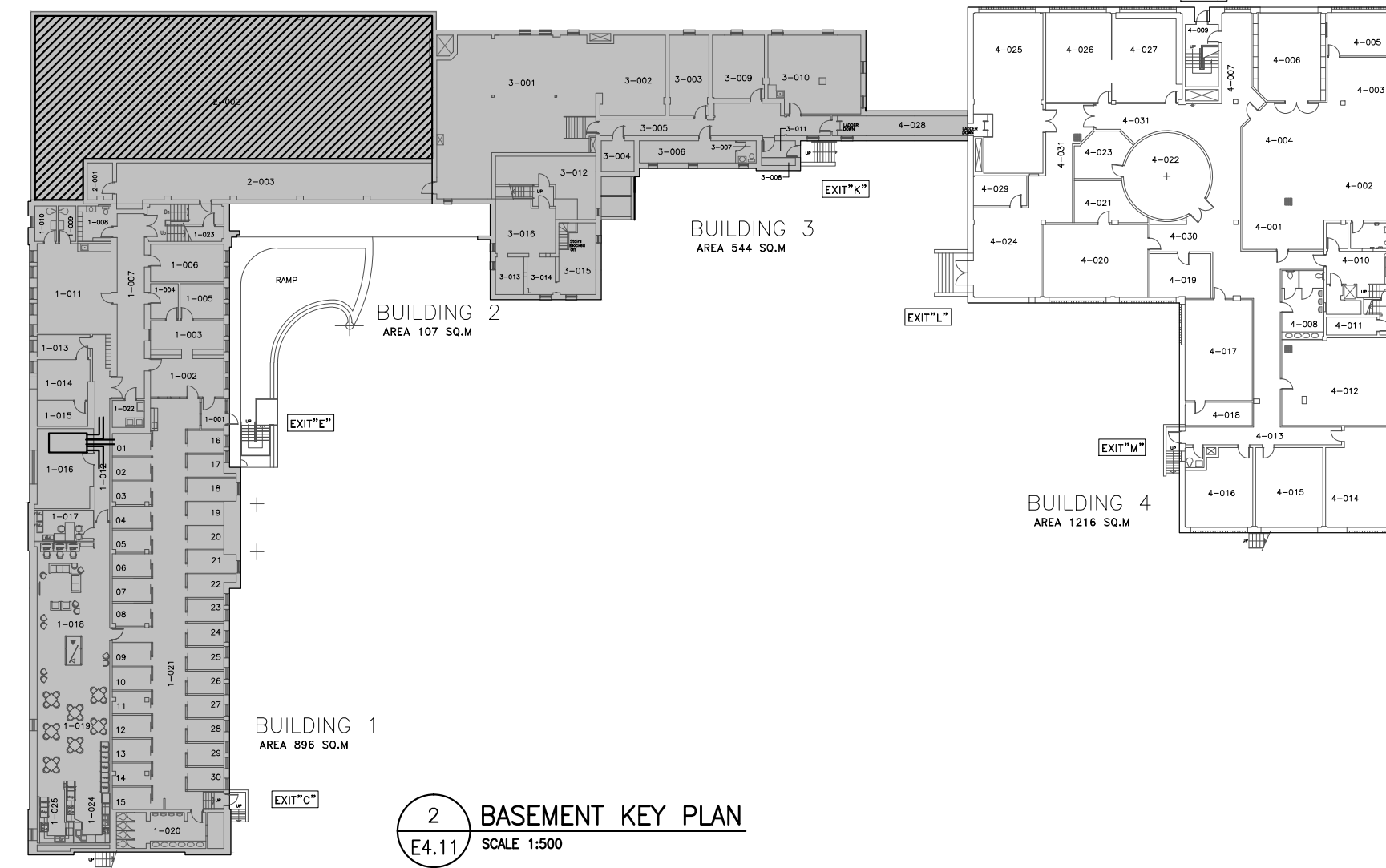
- 4-001 STORAGE
- 4-002 STORAGE
- 4-003 STORAGE
- 4-004 STORAGE
- 4-005 OFFICE
- 4-006 GARAGE
- 4-007 CORRIDOR
- 4-008 WASHROOM
- 4-009 STAIRWAY - NORTH EXIT
- 4-010 DUMBWAITER
- 4-011 COOLER
- 4-012 BACK TO WORK
- 4-013 CORRIDOR - WASHROOM
- 4-014 INMATE HOBBY ROOM
- 4-015 PROPERTY ROOM
- 4-016 STORAGE
- 4-017 PROGRAM ROOM 2
- 4-018 STORAGE
- 4-019 FACILITATOR
- 4-020 PROGRAM ROOM 1
- 4-021 STORAGE
- 4-022 CEREMONIAL ROOM
- 4-023 STORAGE
- 4-024 EXIT
- 4-025 MECHANICAL ROOM
- 4-026 GYMNASIUM
- 4-027 RECREATION
- 4-028 CORRIDOR
- 4-029 MECHANICAL ROOM
- 4-030 CORRIDOR
- 4-031 CORRIDOR

CONSTRUCTION GENERAL NOTES (FOR BUILDING 4):

- CONTRACTOR TO ALLOW FOR ADDITIONAL CONDUIT AND CABLE AS REQUIRED.
- DEVICES SHOWN ARE TO BE NEW UNLESS OTHERWISE NOTED. DEVICES SHALL BE A ONE-TO-ONE REPLACEMENT OF EXISTING DEVICES. ALL SIGNALLING BELLS AND BELL STROBES SHALL BE REPLACED WITH HORN STROBES.
- NEW DEVICES LOCATED IN BUILDINGS 1, 2, AND 3 ARE TO BE TIED INTO FIRE ALARM CONTROL PANEL LOCATED IN BUILDING 1.
- NEW DEVICES LOCATED IN BUILDING 4 ARE TO BE TIED INTO NEW FIRE ALARM CONTROL PANEL LOCATED IN BUILDING 4.
- EACH FIRE ALARM CONTROL PANEL WILL SEND A SUPERVISORY SIGNAL TO THE OTHER PANEL WHEN THE SYSTEM IT MONITORS GOES INTO ALARM. CONNECTION BETWEEN THE FIRE ALARM PANELS SHALL BE ROUTED THROUGH THE TUNNELS CONNECTING BUILDING 3 AND BUILDING 4. CONDUIT SHALL NOT PENETRATE THE EXTERIOR OF THE BUILDING.
- CONTRACTOR TO CONFIRM EXACT CEILING AND WALL TYPES IN EACH ROOM TO DETERMINE MOUNTING REQUIREMENTS PRIOR TO INSTALLATION.
- NEW CONDUIT ROUTING AND JUNCTION BOXES ARE SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. CONTRACTOR TO CONFIRM EXACT CONDUIT RUNS AND PENETRATIONS ON SITE. ENSURE EXISTING FIRE ALARM SYSTEM REMAINS OPERATIONAL DURING CONSTRUCTION OF THE NEW FIRE ALARM SYSTEM OR CONTRACTOR TO PROVIDE ADEQUATE FIRE WATCH.
- ALL DEVICES TO BE FED VIA IDENTIFIED FIRE ALARM CONDUIT C/W 4-WIRES.
- ALL FIRE ALARM STROBE CANDELA RATINGS ARE 15cd UNLESS OTHERWISE NOTED ADJACENT TO DEVICE. ALL STROBES TO BE SYNCHRONIZED.
- SMOKE DETECTORS C/W LOCALIZED ALARMS SHALL BE INSTALLED IN SLEEPING ROOMS. THESE DEVICES WILL SOUND LOCALLY WHEN SMOKE IS DETECTED AND CEASE WHEN THE SMOKE HAS CLEARED. A SUPERVISORY SIGNAL WILL BE SENT TO THE FIRE ALARM PANEL.
- CONDUIT SHALL BE RECESSED IN ALL AREAS WITH THE EXCEPTION OF AREAS CONSISTING OF BRICK OR TILE OR IN MECHANICAL OR ELECTRICAL ROOMS. SURFACE CONDUIT IN THESE AREAS SHALL BE PAINTED TO MATCH THE COLOUR OF THE WALL/CEILING.
- CONTRACTOR TO REPLACE ALL EXISTING PASSIVE GRAPHICS AND PROVIDE NEW IN THE LOCATIONS SHOWN ON THE CONSTRUCTION DRAWINGS. CONTRACTOR TO SUPPLY FOUR (4) ADDITIONAL PASSIVE GRAPHICS TO DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR TO PROVIDE A BUILDING GRAPHIC SIMILAR TO PHOTO 3 ON DRAWING E2.11 AT THE SAME LOCATIONS AS ALL PASSIVE GRAPHICS. IT IS TO INCLUDE, BUT NOT LIMITED TO, THE EMERGENCY LIGHTING, FIRE EXTINGUISHERS LOCATIONS, AND ALL FIRE ALARM SYSTEM DEVICES. WSP TO PROVIDE CAD FILES TO CONTRACTOR TO UPDATE AND CONFIRM LOCATIONS. CONTRACTOR TO SUPPLY AN ADDITIONAL FOUR (4) BUILDING GRAPHICS TO DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR TO AVOID PLACING NEW DEVICES ON WALLS WITH SPECIALTY PAINTING. CONTRACTOR TO RELOCATE NEW DEVICE AS REQUIRED TO NEAREST CLEAR WALL SPACE. REFER TO DETAIL 3 ON DRAWING E1.11 FOR EXAMPLE OF WALL WITH SPECIALTY PAINTING.
- CONTRACTOR TO INSTALL INITIATING AND SIGNALLING WIRING IN SEPARATE LOOPS FOR EACH BUILDING. REFER TO RISER DIAGRAM FOR REFERENCE.
- CONTRACTOR TO PROVIDE ADDITIONAL ACCESS HATCHES TO SUIT NEW FIRE ALARM SYSTEM INSTALLATION AS REQUIRED AND DETERMINE NEW LOCATIONS ON SITE. CONTRACTOR TO ALLOW ADDITION OF ACCESS HATCHES WITHIN BID PRICE.
- REFER TO TYPICAL FIRE ALARM ISOLATION INSTALLATION DIAGRAM ON DRAWING E5.02.
- CONTRACTOR IS TO COORDINATE WITH DEPARTMENTAL REPRESENTATIVE TO ENSURE PROPER DESCRIPTION FOR ALL MONITORED SPRINKLER DEVICES TO BE INCLUDED IN NEW FACP PROGRAM.
- PROVIDE CEILING MOUNTED LAMICIDS FOR CEILING MOUNTED DEVICES (i.e. TAMPER SWITCHES, FLOW SWITCHES, ETC.)
- CONTRACTOR TO INCLUDE ALL COSTS FOR CONTROLS, START-UP, AND COMMISSIONING FROM CONTROLS MANUFACTURER AND MAINTENANCE CONTRACTOR.

CONSTRUCTION KEYNOTES:

- BILINGUAL "FIRE DO NOT ENTER" ILLUMINATED SIGN. ILLUMINATED SIGN TO BE STANPRO SLESS-SLSES-1-WM-WH-IB C/W CUSTOM LETTERING OR APPROVED EQUAL.
- THE SIGN LOCATED IN BUILDING 3 SHALL BE TIED INTO THE FIRE ALARM SYSTEM IN BUILDING 4. WHEN BUILDING 4 IS SENT INTO ALARM, THE SIGN LOCATED IN BUILDING 3 SHALL ILLUMINATE.
- THE SIGN LOCATED IN BUILDING 4 SHALL BE TIED INTO THE FIRE ALARM SYSTEM IN BUILDINGS 1, 2, AND 3. WHEN BUILDINGS 1, 2, AND 3 ARE SENT INTO ALARM, THE SIGN LOCATED IN BUILDING 4 SHALL ILLUMINATE.
- THE DEVICE LOCATED IN BUILDING 3 SHALL BE TIED INTO THE FIRE ALARM SYSTEM FOR BUILDINGS 1, 2, AND 3.
- THE DEVICE LOCATED IN BUILDING 4 SHALL BE TIED INTO THE FIRE ALARM SYSTEM FOR BUILDING 4.
- WEATHER-PROOF STROBE TO BE MOUNTED ON EXTERIOR WALL ABOVE EXISTING SIAMESE CONNECTION.
- NOT USED.
- PULL STATIONS SHALL BE MOUNTED ON DRYWALL PILLAR AS OPPOSED TO BRICK WHEN POSSIBLE. REFER TO DETAIL 4 ON DRAWING E1.11.
- CONTRACTOR TO PROVIDE AN ELECTRICAL SHUT OFF RELAY OPERATED BY THE FIRE ALARM SYSTEM FOR CUTTING ALL HEAT PRODUCING SOURCES OF FUEL AND ELECTRICAL POWER FOR THE COOKING EQUIPMENT. CONTRACTOR TO INCLUDE ALL COST ASSOCIATED TO THE WORK ABOVE IN THEIR BID.
- PROVIDE A HEAT DETECTOR IN ELEVATOR PIT.
- ELECTRICAL CONTRACTOR TO DISCONNECT AND RECONNECT EXISTING DOOR MAGNETIC HOLD OPEN DEVICES AT DOOR. CONTRACTOR TO SUPPLY AND INSTALL FIRE ALARM RELAYS TO TIE DOOR INTO FIRE ALARM SYSTEM AS REQUIRED.
- LAMICOID STATING IN ENGLISH AND FRENCH "WHEN THIS STROBE IS ON, BUILDING 3 IS IN ALARM - DO NOT ENTER."
- LAMICOID STATING IN ENGLISH AND FRENCH "WHEN THIS STROBE IS ON, BUILDING 4 IS IN ALARM - DO NOT ENTER."
- SINGLE BOOSTER POWER SUPPLY SHOWN FOR BUILDING 3. CONTRACTOR TO DETERMINE IF ADDITIONAL BOOSTER POWER SUPPLIES ARE REQUIRED FOR BUILDING 3 AND REMAINDER OF BUILDINGS. CONTRACTOR TO PROVIDE AND ALLOW FOR ADDITIONAL BOOSTER POWER SUPPLIES IN BID PRICE.
- 21mmC c/w 4C#16 FAS TO BUILDING TELEPHONE BACKBOARD FOR AUTODIALER AND MONITORING PANEL. PROVIDE NEW AUTODIALER WITH TWO COMMUNICATION DIAL OUT SIGNALS OUTPUT (PRIMARY AND ALTERNATE PHONE LINES). CONFIRM PHONE NUMBERS WITH PWGSC AND ENSURE TWO TYPES OF TRANSMISSION. PROVIDE NEW MONITORING PANEL THAT IS ULC-S561 COMPLIANT. BOTH AUTODIALER AND MONITORING PANEL ARE TO BE FROM SAME MANUFACTURER. CONTRACTOR TO CONFIRM MODEL OF AUTODIALER AND MONITORING PANEL WITH OWNER AND PROVIDE ALL COSTS FOR SUPPLY AND INSTALLATION OF AUTODIALER / MONITORING PANEL IN THEIR BID.
- REMOTE LED INDICATOR IS TO BE PROVIDED FOR ALL NOT VISIBLE DUCT DETECTORS.
- CONTRACTOR TO PROVIDE FIRE EMERGENCY PROCEDURE SIGN AT DESIGNATED LOCATIONS. SIGN SHALL INCLUDE ALL ARTICLES NOTED IN NATIONAL FIRE CODE SECTION 2.8.2.1.1.g WRITTEN IN ENGLISH AND FRENCH. CONTRACTOR TO SUBMIT DRAFT COPY TO PUBLIC WORKS, GRIERSON AND CONSULTANT FOR REVIEW PRIOR TO ORDERING SIGNS. CONTRACTOR TO PROVIDE FOUR (4) ADDITIONAL COPIES OF EMERGENCY PROCEDURE SIGNS TO BE INSTALLED AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE.



2 BASEMENT KEY PLAN E4.11 SCALE 1:500



CONSULTANT:

SEAL:



CLIENT:



CLIENT REF. #: CLIENT_REFERENCE_#

PROJECT:

GRIERSON & STAN DANIELS CENTRE
FIRE ALARM UPGRADE

KEY PLAN:

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REVISION	DATE	DESCRIPTION
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DRAWN BY: L. SHADE
CHECKED BY: J. ESPINO
DISCIPLINE: ELECTRICAL

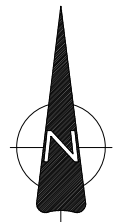
DATE: 2018/09/26
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TITLE:
BUILDING 4 - BASEMENT
FIRE ALARM CONSTRUCTION

SHEET NUMBER: E4.11
SHEET #: 23 OF 28
ISSUE: ISSUED FOR TENDER
DATE OF: 2018/09/26
REV # A

F
E
D
C
B
A



 BUILDING 4
AREA 1207 SQ.M
1 BUILDING 4 GROUND FLOOR CONSTRUCTION
E4.12 SCALE 1:100

1 BUILDING 4 GROUND FLOOR CONSTRUCTION
E4.12 SCALE 1:100

ROOM LEGEND BUILDING 4

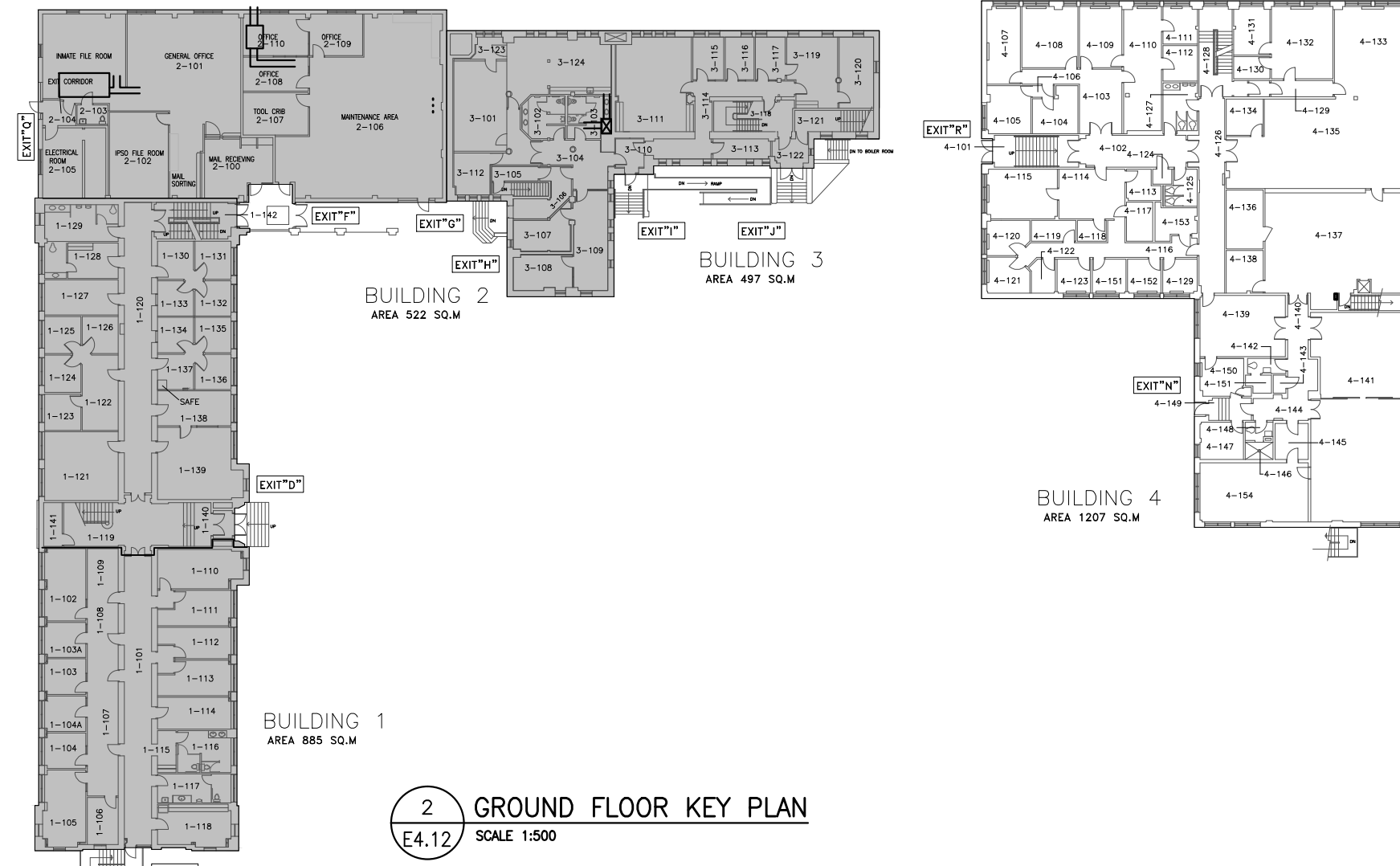
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|-------|--------------|-------|--------------|
| 4-101 | CORRIDOR | 4-144 | LOUNGE |
| 4-102 | CORRIDOR | 4-145 | STORAGE |
| 4-103 | LOBBY | 4-146 | WASHROOM |
| 4-104 | OFFICE | 4-147 | BEDROOM |
| 4-105 | OFFICE | 4-148 | CORRIDOR |
| 4-106 | ENTRY | 4-149 | VESTIBULE |
| 4-107 | OFFICE | 4-150 | BEDROOM |
| 4-108 | OFFICE | 4-151 | OFFICE |
| 4-109 | OFFICE | 4-152 | OFFICE |
| 4-110 | OFFICE | 4-153 | WASHROOM |
| 4-111 | OFFICE | 4-154 | MEETING ROOM |
| 4-112 | OFFICE | | |
| 4-113 | STORAGE | | |
| 4-114 | OFFICE | | |
| 4-115 | OFFICE | | |
| 4-116 | CORRIDOR | | |
| 4-117 | HOLDING ROOM | | |
| 4-118 | STORAGE | | |
| 4-119 | STORAGE | | |
| 4-120 | OFFICE | | |
| 4-121 | OFFICE | | |
| 4-122 | OFFICE | | |
| 4-123 | OFFICE | | |
| 4-124 | MOP ROOM | | |
| 4-125 | WASHROOM | | |
| 4-126 | CORRIDOR | | |
| 4-127 | WASHROOM | | |
| 4-128 | CORRIDOR | | |
| 4-129 | CORRIDOR | | |
| 4-130 | STORAGE | | |
| 4-131 | STORAGE | | |
| 4-132 | BEDROOM | | |
| 4-133 | DINING | | |
| 4-134 | OFFICE | | |
| 4-135 | DINING | | |
| 4-136 | FREEZER | | |
| 4-137 | KITCHEN | | |
| 4-138 | STORAGE | | |
| 4-139 | LOUNGE | | |
| 4-140 | CORRIDOR | | |
| 4-141 | LOUNGE | | |
| 4-142 | WASHROOM | | |
| 4-143 | STORAGE | | |

CONSTRUCTION GENERAL NOTES (FOR BUILDING 4):

- CONTRACTOR TO ALLOW FOR ADDITIONAL CONDUIT AND CABLE AS REQUIRED.
- DEVICES SHOWN ARE TO BE NEW UNLESS OTHERWISE NOTED. DEVICES SHALL BE A ONE-TO-ONE REPLACEMENT OF EXISTING DEVICES. ALL SIGNALING BELLS AND BELL STROBES SHALL BE REPLACED WITH HORN STROBES.
- NEW DEVICES LOCATED IN BUILDINGS 1, 2, AND 3 ARE TO BE TIED INTO FIRE ALARM CONTROL PANEL LOCATED IN BUILDING 1.
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- EACH FIRE ALARM CONTROL PANEL WILL SEND A SUPERVISORY SIGNAL TO THE OTHER PANEL WHEN THE SYSTEM IT MONITORS GOES INTO ALARM. CONNECTION BETWEEN THE FIRE ALARM PANELS SHALL BE ROUTED THROUGH THE TUNNELS CONNECTING BUILDING 3 AND BUILDING 4. CONDUIT SHALL NOT PENETRATE THE EXTERIOR OF THE BUILDING.
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- ALL DEVICES TO BE FED VIA IDENTIFIED FIRE ALARM CONDUIT C/W 4-WIRES.
- ALL FIRE ALARM STROBE CANDELA RATINGS ARE 15cd UNLESS OTHERWISE NOTED ADJACENT TO DEVICE. ALL STROBES TO BE SYNCHRONIZED.
- SMOKE DETECTORS C/W LOCALIZED ALARMS SHALL BE INSTALLED IN SLEEPING ROOMS. THESE DEVICES WILL SOUND LOCALLY WHEN SMOKE IS DETECTED AND CEASE WHEN THE SMOKE HAS CLEARED. A SUPERVISORY SIGNAL WILL BE SENT TO THE FIRE ALARM PANEL.
- CONDUIT SHALL BE RECESSED IN ALL AREAS WITH THE EXCEPTION OF AREAS CONSISTING OF BRICK OR TILE OR IN MECHANICAL OR ELECTRICAL ROOMS. SURFACE CONDUIT IN THESE AREAS SHALL BE PAINTED TO MATCH THE COLOUR OF THE WALL/CEILING.
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- CONTRACTOR TO PROVIDE A BUILDING GRAPHIC SIMILAR TO PHOTO 3 ON DRAWING E2.11 AT THE SAME LOCATIONS AS ALL PASSIVE GRAPHICS. IT IS TO INCLUDE, BUT NOT LIMITED TO, THE EMERGENCY LIGHTING, FIRE EXTINGUISHERS LOCATIONS, AND ALL FIRE ALARM SYSTEM DEVICES. WSP TO PROVIDE CAD FILES TO CONTRACTOR TO UPDATE AND CONFIRM LOCATIONS. CONTRACTOR TO SUPPLY AN ADDITIONAL FOUR (4) BUILDING GRAPHICS TO DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR TO AVOID PLACING NEW DEVICES ON WALLS WITH SPECIALTY PAINTING. CONTRACTOR TO RELOCATE NEW DEVICE AS REQUIRED TO NEAREST CLEAR WALL SPACE. REFER TO DETAIL 3 ON DRAWING E1.11 FOR EXAMPLE OF WALL WITH SPECIALTY PAINTING.
- CONTRACTOR TO INSTALL INITIATING AND SIGNALING WIRING IN SEPARATE LOOPS FOR EACH BUILDING. REFER TO RISER DIAGRAM FOR REFERENCE.
- CONTRACTOR TO PROVIDE ADDITIONAL ACCESS HATCHES TO SUIT NEW FIRE ALARM SYSTEM INSTALLATION AS REQUIRED AND DETERMINE NEW LOCATIONS ON SITE. CONTRACTOR TO ALLOW ADDITION OF ACCESS HATCHES WITHIN BID PRICE.
- REFER TO TYPICAL FIRE ALARM ISOLATION INSTALLATION DIAGRAM ON DRAWING E5.02.
- CONTRACTOR IS TO COORDINATE WITH DEPARTMENTAL REPRESENTATIVE TO ENSURE PROPER DESCRIPTION FOR ALL MONITORED SPRINKLER DEVICES TO BE INCLUDED IN NEW FACP PROGRAM.
- PROVIDE CEILING MOUNTED LAMICIDS FOR CEILING MOUNTED DEVICES (ie. TAMPER SWITCHES, FLOW SWITCHES, ETC.)
- CONTRACTOR TO INCLUDE ALL COSTS FOR CONTROLS, START-UP, AND COMMISSIONING FROM CONTROLS MANUFACTURER AND MAINTENANCE CONTRACTOR.

CONSTRUCTION KEYNOTES:

- BILINGUAL "FIRE DO NOT ENTER" ILLUMINATED SIGN. ILLUMINATED SIGN TO BE STANPRO SLESS-SLSES-1-WM-WH-IB C/W CUSTOM LETTERING OR APPROVED EQUAL.
- THE SIGN LOCATED IN BUILDING 3 SHALL BE TIED INTO THE FIRE ALARM SYSTEM IN BUILDING 4. WHEN BUILDING 4 IS SENT INTO THE SIGN LOCATED IN BUILDING 3 SHALL ILLUMINATE.
- THE SIGN LOCATED IN BUILDING 4 SHALL BE TIED INTO THE FIRE ALARM SYSTEM IN BUILDINGS 1, 2, AND 3. WHEN BUILDINGS 1, 3 ARE SENT INTO ALARM, THE SIGN LOCATED IN BUILDING 4 SHALL ILLUMINATE.
- THE DEVICE LOCATED IN BUILDING 3 SHALL BE TIED INTO THE FIRE ALARM SYSTEM FOR BUILDINGS 1, 2, AND 3.
- THE DEVICE LOCATED IN BUILDING 4 SHALL BE TIED INTO THE FIRE ALARM SYSTEM FOR BUILDING 4.
- WEATHER-PROOF STROBE TO BE MOUNTED ON EXTERIOR WALL ABOVE EXISTING SIAMESE CONNECTION.
- NOT USED.
- PULL STATIONS SHALL BE MOUNTED ON DRYWALL PILLAR AS OPPOSED TO BRICK WHEN POSSIBLE. REFER TO DETAIL 4 ON DRAWING.
- CONTRACTOR TO PROVIDE AN ELECTRICAL SHUT OFF RELAY OPERATED BY THE FIRE ALARM SYSTEM FOR CUTTING ALL HEAT PRODUCING SOURCES OF FUEL AND ELECTRICAL POWER FOR THE COOKING EQUIPMENT. CONTRACTOR TO INCLUDE ALL COST ASSOCIATED WITH ABOVE IN THEIR BID.
- PROVIDE A HEAT DETECTOR IN ELEVATOR PIT.
- ELECTRICAL CONTRACTOR TO DISCONNECT AND RECONNECT EXISTING DOOR MAGNETIC HOLD OPEN DEVICES AT DOOR. CONTRACTOR TO SUPPLY AND INSTALL FIRE ALARM RELAYS TO TIE DOOR INTO FIRE ALARM SYSTEM AS REQUIRED.
- LAMICOID STATING IN ENGLISH AND FRENCH "WHEN THIS STROBE IS ON, BUILDING 3 IS IN ALARM - DO NOT ENTER."
- LAMICOID STATING IN ENGLISH AND FRENCH "WHEN THIS STROBE IS ON, BUILDING 4 IS IN ALARM - DO NOT ENTER."
- SINGLE BOOSTER POWER SUPPLY SHOWN FOR BUILDING 3. CONTRACTOR TO DETERMINE IF ADDITIONAL BOOSTER POWER SUPPLIES REQUIRED FOR BUILDING 3 AND REMAINDER OF BUILDINGS. CONTRACTOR TO PROVIDE AND ALLOW FOR ADDITIONAL BOOSTER POWER SUPPLIES IN BID PRICE.
- 21mmC c/w 4C#16 FAS TO BUILDING TELEPHONE BACKBOARD FOR AUTODIALER AND MONITORING PANEL. PROVIDE NEW AUTODIALER TWO COMMUNICATION DIAL OUT SIGNALS OUTPUT (PRIMARY AND ALTERNATE PHONE LINES). CONFIRM PHONE NUMBERS WITH PWGSC. ENSURE TWO TYPES OF TRANSMISSION. PROVIDE NEW MONITORING PANEL THAT IS ULG-S561 COMPLIANT. BOTH AUTODIALER AND MONITORING PANEL ARE TO BE FROM SAME MANUFACTURER. CONTRACTOR TO CONFIRM MODEL OF AUTODIALER AND MONITORING P/ WITH OWNER AND PROVIDE ALL COSTS FOR SUPPLY AND INSTALLATION OF AUTODIALER / MONITORING PANEL IN THEIR BID.
- REMOTE LED INDICATOR IS TO BE PROVIDED FOR ALL NOT VISIBLE DUCT DETECTORS.
- CONTRACTOR TO PROVIDE FIRE EMERGENCY PROCEDURE SIGN AT DESIGNATED LOCATIONS. SIGN SHALL INCLUDE ALL ARTICLES NOTE "NATIONAL FIRE CODE SECTION 2.8.2.1.1.a WRITTEN IN ENGLISH AND FRENCH. CONTRACTOR TO SUBMIT DRAFT COPY TO PUBLIC WC GRIERSON AND CONSULTANT FOR REVIEW PRIOR TO ORDERING SIGNS. CONTRACTOR TO PROVIDE FOUR (4) ADDITIONAL COPIES OF EMERGENCY PROCEDURE SIGNS TO BE INSTALLED AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE.



2 GROUND FLOOR KEY PLAN
E4.12 SCALE 1:500



CONSULTANT:

SEAL:

PERMIT TO PRACTICE
WSP Canada Inc.
PERMIT NUMBER: P07641
The Association of Professional
Engineers and Geoscientists of Alberta



CLIENT:



CLIENT REF. #: CLIENT_REFERENCE_#

PROJECT:

GRIERSON & STAN DANIELS CENTRE
FIRE ALARM UPGRADE

KEY PLAN:

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ISSUED FOR - REVISION:

IS	RE	DATE	DESCRIPTION
A		2018/09/26	ISSUED FOR TENDER

PROJECT NO: 1711-04506-00	DATE: 2018/09/26
ORIGINAL SCALE: AS NOTED	IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.
DESIGNED BY: L. SHADE	
DRAWN BY: L. SHADE	
CHECKED BY: J. ESPINO	
DISCIPLINE: ELECTRICAL	

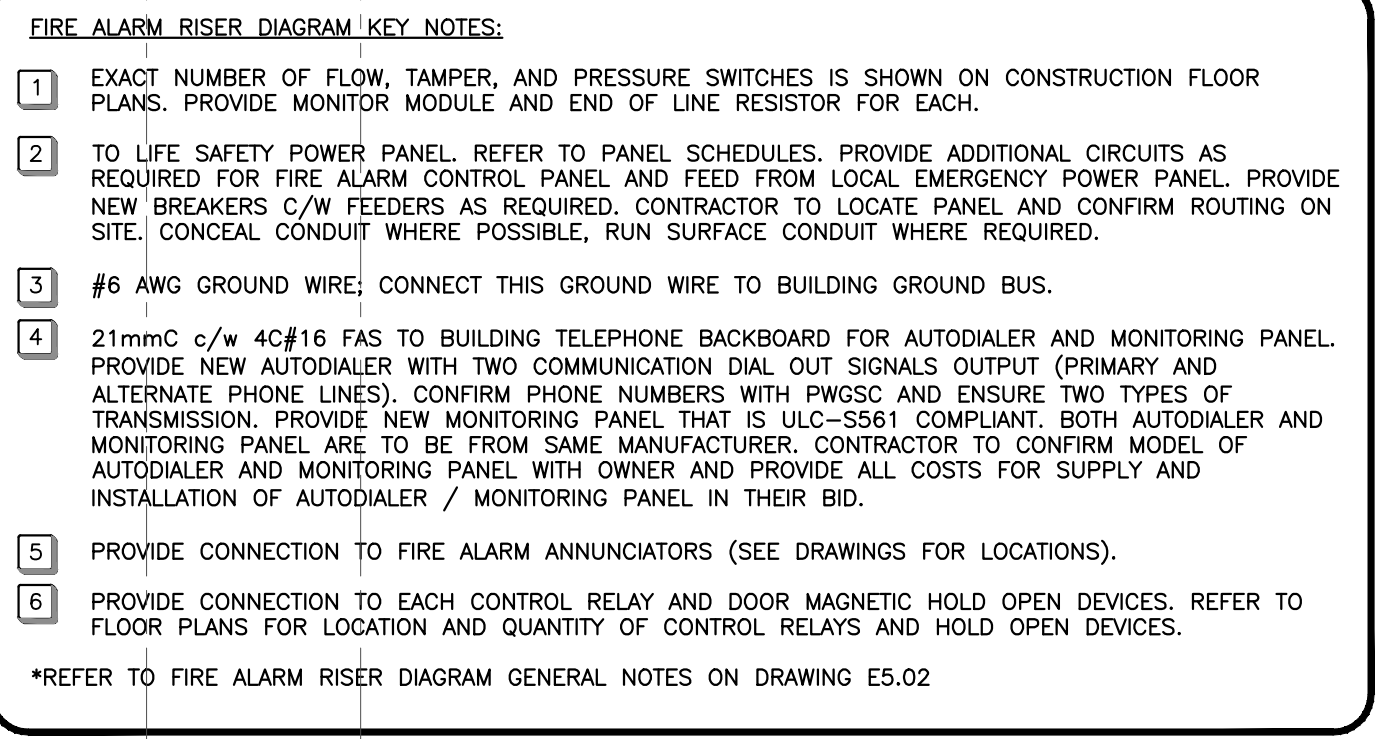
TITLE:

BUILDING 4 - GROUND FLOOR
FIRE ALARM CONSTRUCTION

SHEET NUMBER: E4.12 24 OF 28	REV # A
ISSUE: ISSUED FOR TENDER DATE OF: 2018/09/26	

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[illegible]

CAUSE AND EFFECT MATRIX												
CAUSE \ EFFECT	ACTUATE ALL FIRE ALARM SIGNALLING DEVICES IN BLDGS 1, 2, 3	ACTUATE ALL FIRE ALARM SIGNALLING DEVICES IN BLDG. 4	SHUTDOWN HVAC EQUIPMENT IN BLDGS 1, 2, 3	SHUTDOWN HVAC EQUIPMENT IN BLDG. 4	START-UP HVAC EQUIPMENT IN BLDGS 1, 2, 3	START-UP HVAC EQUIPMENT IN BLDG. 4	ILLUMINATE BILINGUAL 'DO NOT ENTER' SIGNS LOCATED IN BLDG. 3 FOR ENTRANCE TO BLDG. 4	ILLUMINATE BILINGUAL 'DO NOT ENTER' SIGNS LOCATED IN BLDG. 4 FOR ENTRANCE TO BLDG. 3	DISPLAY STATUS ON FACP LOCATED IN BLDG. 1	DISPLAY STATUS ON FACP LOCATED IN BLDG. 4	SEND SUPERVISORY SIGNAL TO FACP LOCATED IN BLDG. 1	SEND SUPERVISORY SIGNAL TO FACP LOCATED IN BLDG. 4
SYSTEM TROUBLE – BLDGS 1, 2, 3									X			
SYSTEM TROUBLE – BLDG.4										X		
HEAT DETECTOR ALARM – BLDGS 1, 2, 3	X		X					X	X			X
HEAT DETECTOR ALARM – BLDG. 4		X		X			X			X	X	
SMOKE DETECTOR ALARM – BLDGS 1, 2, 3	X		X					X	X			X
SMOKE DETECTOR ALARM – BLDG. 4		X		X			X			X	X	
PULL STATION ACTIVATION – BLDGS 1, 2, 3	X		X					X	X			X
PULL STATION ACTIVATION – BLDG. 4		X		X			X			X	X	
SPRINKLER ACTIVATION – ALL BLDGS	X	X	X	X			X	X	X	X		
FACP LOCATED IN BLDG 1 RETURNS TO SYSTEM NORMAL					X				X			
FACP LOCATED IN BLDG 4 RETURNS TO SYSTEM NORMAL						X				X		



CONSULTANT:

SEAL:

PERMIT TO PRACTICE
WSP Canada Inc.
PERMIT NUMBER: P07641
The Association of Professional
Engineers and Geoscientists of Alberta

CLIENT:

Correctional Service Canada
Service correctionnel Canada

CLIENT REF. #: CLIENT_REFERENCE_#
PROJECT:

GRIERSON & STAN DANIELS CENTRE
FIRE ALARM UPGRADE

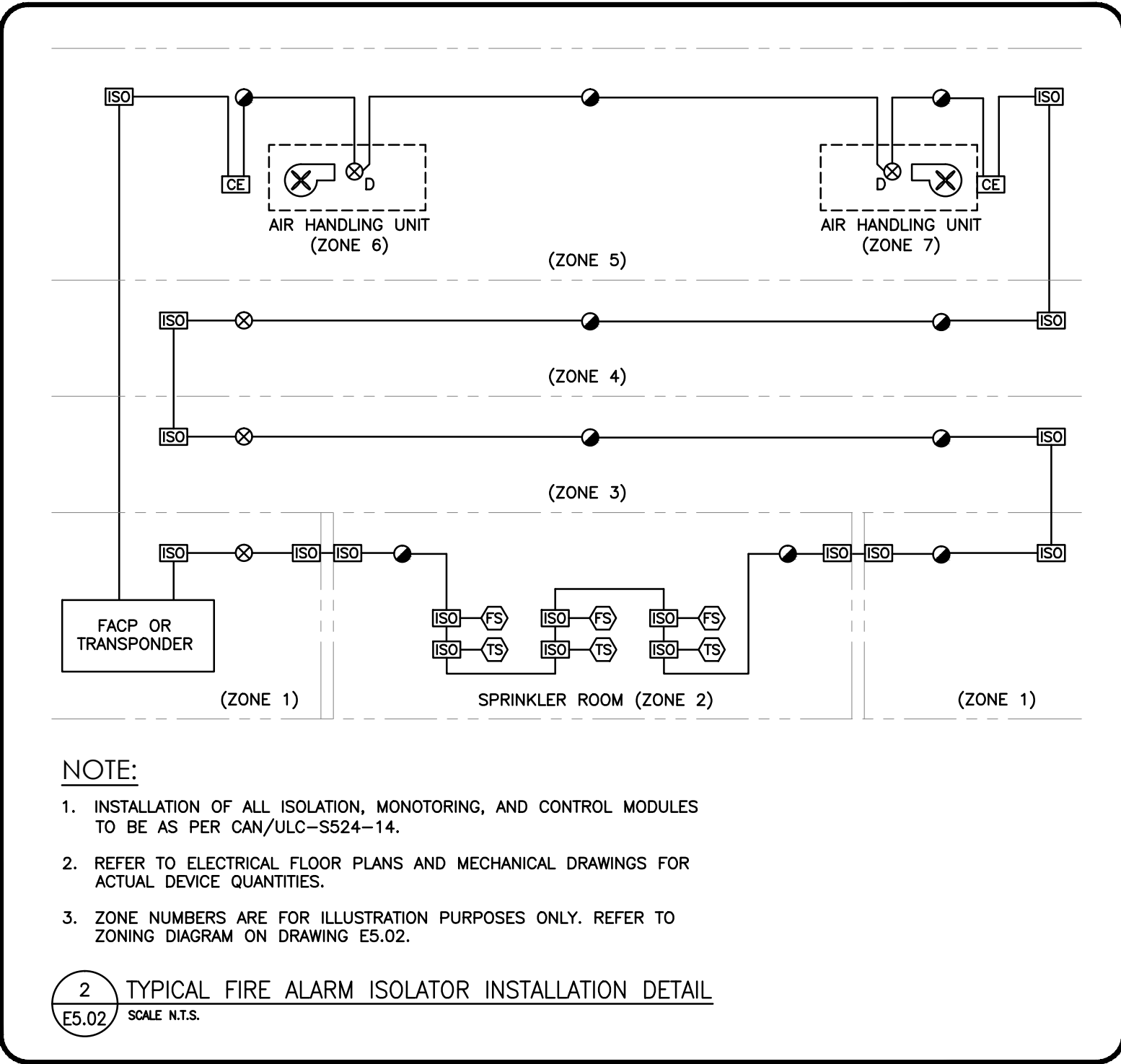
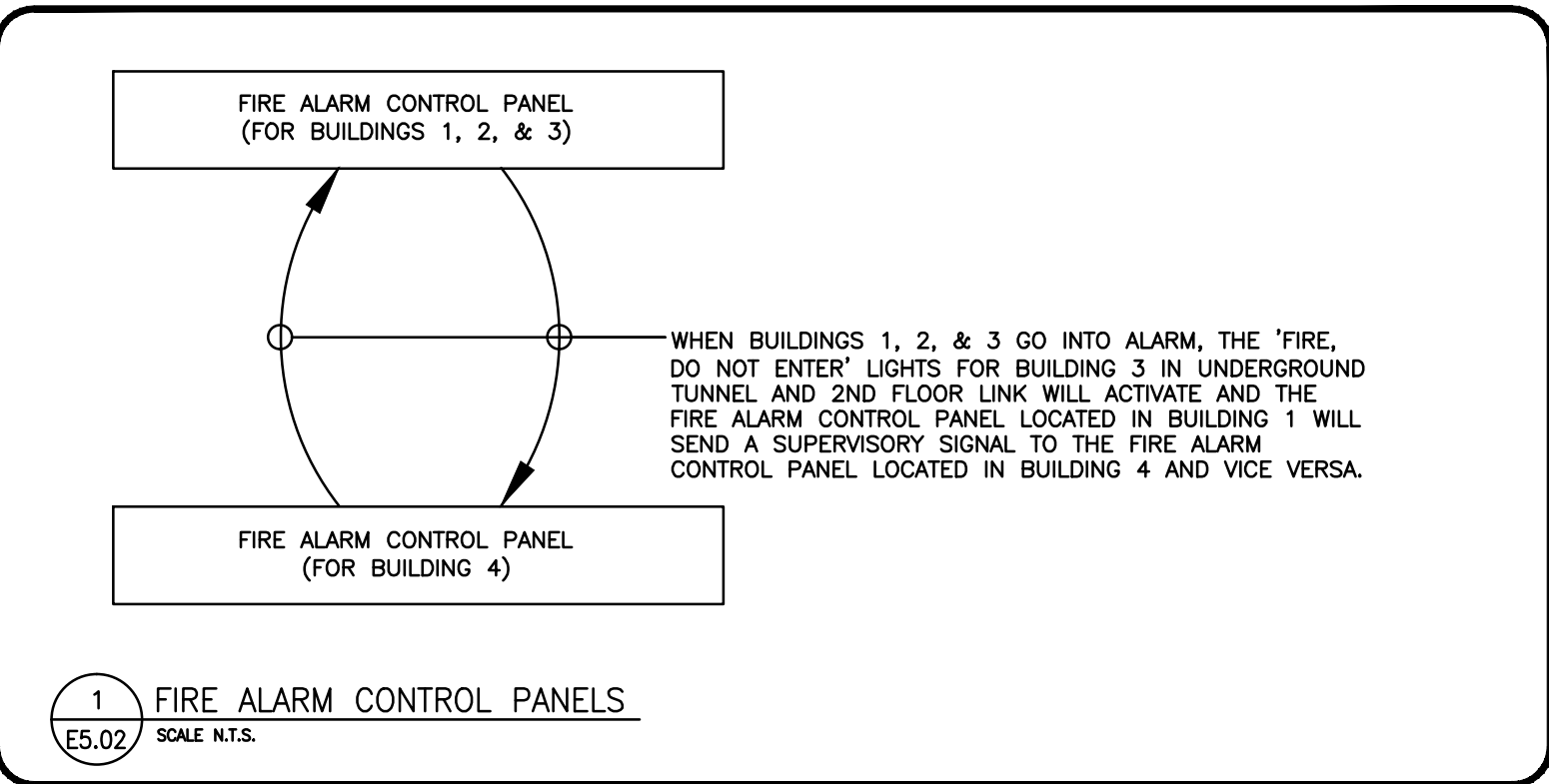
KEY PLAN:

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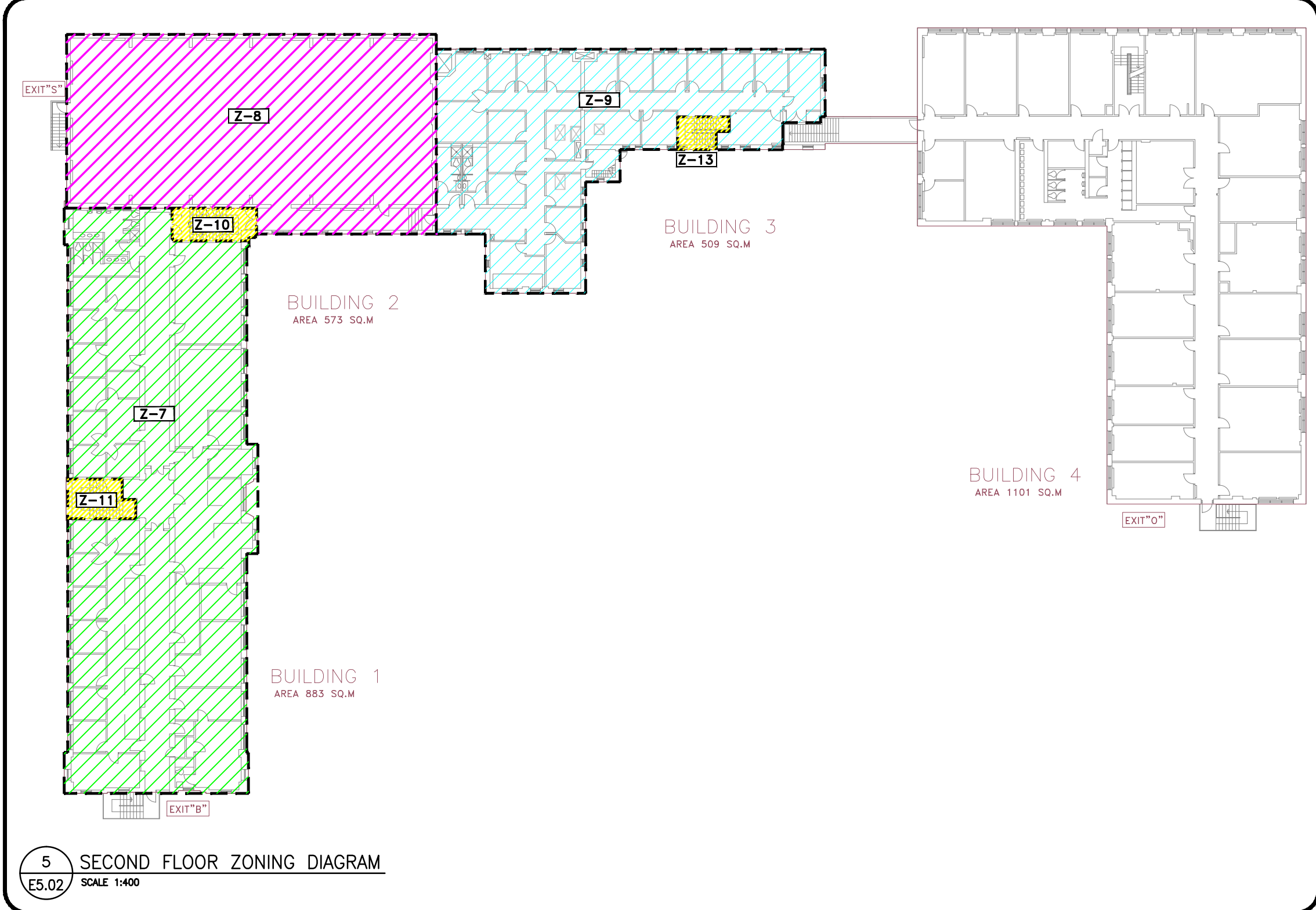
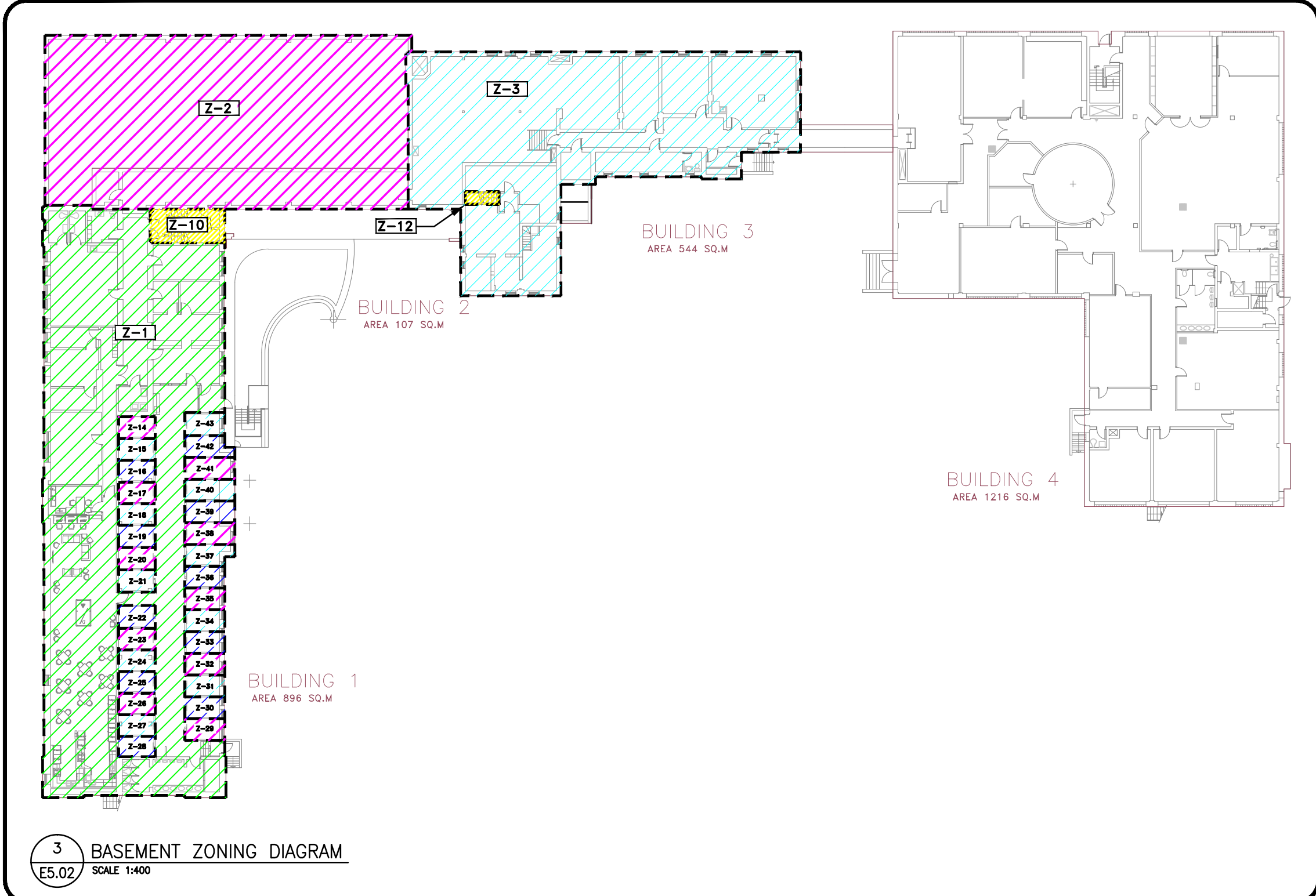
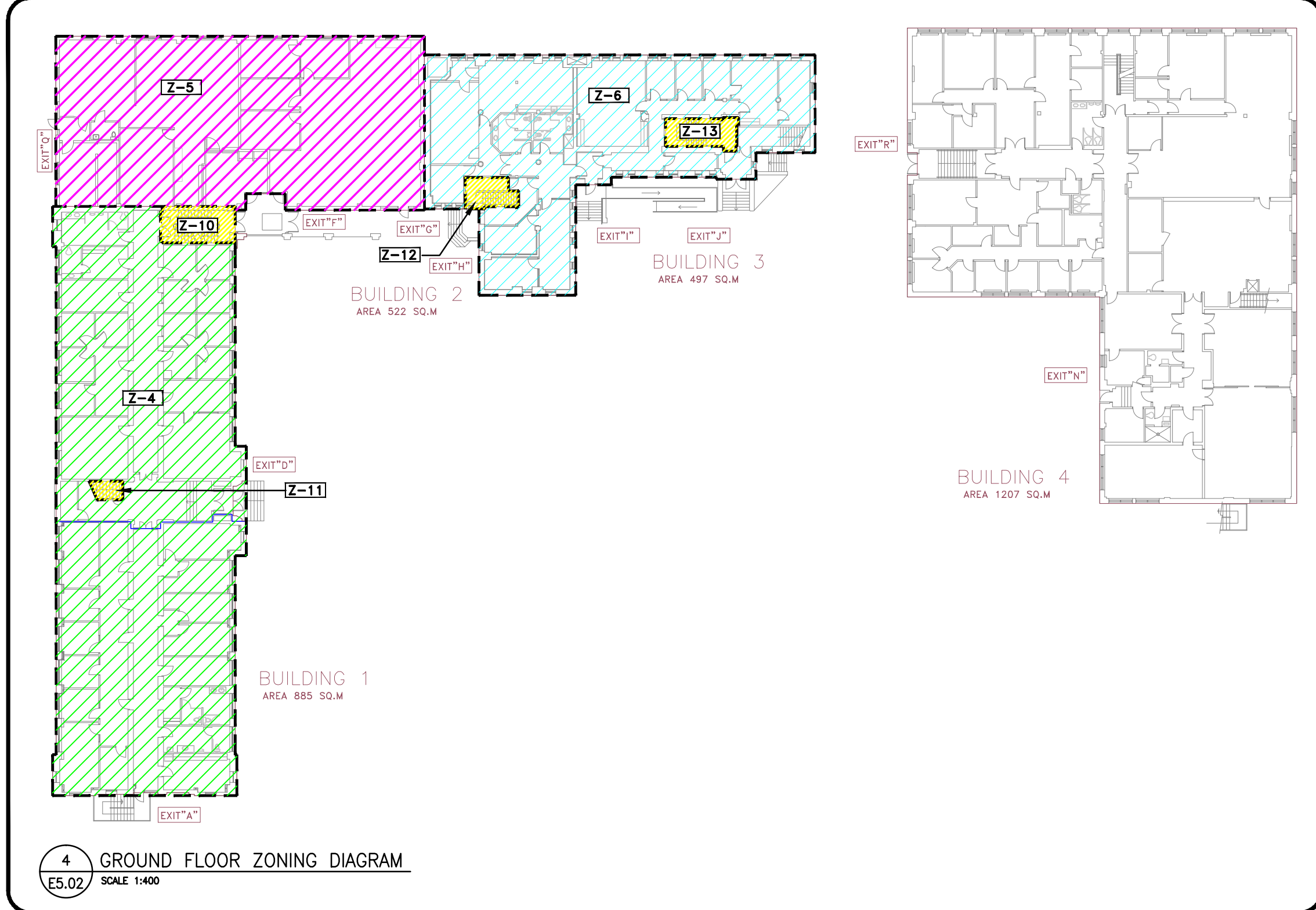
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A	RE	DATE	DESCRIPTION
		2018/09/26	ISSUED FOR TENDER
PROJECT NO: 171-04506-00			DATE: 2018/09/26
ORIGINAL SCALE: AS NOTED			IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.
DESIGNED BY: L. SHADE			
DRAWN BY: L. SHADE			
CHECKED BY: J. ESPINO			
DISCIPLINE: ELECTRICAL			
TITLE: FIRE ALARM ZONING DIAGRAMS			
SHEET NUMBER: E5.02			
SHEET #: 27 OF 28			REV #
ISSUED FOR TENDER			A
DATE OF: 2018/09/26			



- FIRE ALARM RISER DIAGRAM GENERAL NOTES (FOR DRAWINGS E5.01 AND E5.02):
- FIRE ALARM RISER IS DIAGRAMATIC AND FOR REFERENCE PURPOSES ONLY. REFER TO FLOOR PLANS FOR EXACT QUANTITY OF DEVICES ON EACH LEVEL. COORDINATE WITH FIRE ALARM MANUFACTURER FOR WIRING CONNECTION, ACCESSORIES, APPURTENANCES AND PROGRAMMING REQUIRED TO ENSURE THAT THE FIRE ALARM DEVICES AND THIS WHOLE NEW FIRE ALARM SYSTEM WILL FUNCTION PROPERLY UPON PROJECT COMPLETION.
 - REFER TO ELECTRICAL CONSTRUCTION DRAWINGS FOR EXACT LOCATION AND QUANTITY OF FIRE ALARM DEVICES.
 - FIRE ALARM ISOLATORS AND END OF LINE RESISTORS ARE SHOWN ON FLOOR PLANS FOR REFERENCE ONLY. FURNISH AND INSTALL FIRE ALARM ISOLATORS AS PER CAN/ULC-5524 AT 2 HOUR FIRE RATED WALLS OR CEILINGS AND INSTALL ONE ISOLATOR ON BOTH SIDES OF WALL OR CEILING STAGGERED. INSTALL FIRE ALARM END OF LINE RESISTORS WHERE NEEDED.
 - PROVIDE CONTROL RELAYS AND CONTROL WIRES IN CONDUIT TO THE BMS SYSTEM TIED INTO THE FIRE ALARM CONTROL PANEL. COORDINATE WITH FIRE ALARM VENDOR AND CONTROLS CONTRACTOR FOR WIRING REQUIREMENTS.
 - INSTALL ALL ADDRESSABLE MODULES FOR SPRINKLER FLOW, TAMPER, AND PRESSURE SWITCHES IN ACCESSIBLE CEILING SPACE.
 - FIRE ALARM VERIFICATION PROCEDURES, TESTING REQUIREMENTS AND DOCUMENTATION SHALL BE IN ACCORDANCE WITH CAN-ULC/SS37.
 - CONTRACTOR TO PROVIDE ADDITIONAL SIX (6) SPRINKLER FLOW, TAMPER, AND PRESSURE INPUT MODULES. UNUSED MODULES TO BE TURNED OVER TO OWNER AS ADDITIONAL SPARE PARTS.
 - PROVIDE AMPLIFIERS AS REQUIRED. ALLOW FOR 30% SPARE CAPACITY.
 - MAXIMUM OF 12 ISOLATORS PER INITIATING LOOP OR BASED ON MANUFACTURER RECOMMENDATIONS FOR MAXIMUM ISOLATORS PER LOOP.
 - PROVIDE FIRE ALARM BOOSTERS/NAC PANELS AS REQUIRED.
 - DASHED LINES DENOTE SEPARATE ZONES.





1. CONTRACTOR IS TO REVIEW THE SITE CONDITIONS PRIOR TO THE TENDER.
2. PROVIDE ALL WIRING, DEVICES, AND ENCLOSURES AS REQUIRED.
3. ALL ROOF PENETRATION ARE TO BE PROPERLY SEALED USING METHODS ACCEPTED BY BUILDING OPERATIONS. NO ROOF PENETRATIONS ARE ALLOWED BEFORE BUILDING OPERATIONS APPROVAL.
4. ENSURE ALL THE FIRE ALARM ADDRESSABLE DEVICES ARE INSTALLED WITHIN THE HEATED SPACE.
5. ALL AIR HANDLING UNITS LOCATED IN BUILDINGS 1, 2, AND 3 SHALL SHUTDOWN UPON A FIRE ALARM LOCATED WITHIN BUILDINGS 1, 2, OR 3.
6. ALL AIR HANDLING UNITS LOCATED IN BUILDING 4 SHALL SHUTDOWN UPON A FIRE ALARM LOCATED WITHIN BUILDING 4.
7. ENSURE WHEN THE FIRE ALARM PASSES ALL AIR HANDLING UNITS OPERATES AS NORMAL.