

| SECURITY ABBREVIATIONS | |
|--|---|
| E | EXISTING TO REMAIN |
| ER | EXISTING TO BE REMOVED |
| R | EXISTING TO BE RELOCATED |
| RR | REMOVE AND REINSTALL |
| WP | EXTERIOR/WEATHERPROOF |
| JB | JUNCTION BOX |
| AFF | ABOVE FINISHED FLOOR |
| TYP | TYPICAL - TO BE INTERPRETED AS EXACTLY THE SAME AS COMPARABLE FEATURES. |
| V | VOLTS |
| KW | KILOWATTS |
| X | EXPLOSION PROOF DEVICE |
| WM XXX AFF | WALL MOUNTED AT XXXmm AFF. XXX INDICATES SPECIFIC HEIGHT |
| CM | CEILING MOUNT |
| ELV | ELEVATOR MOUNT |
| RFM | ROOF MOUNT |
| CAM XXX XX | FIRST XX INDICATES FLOOR NUMBER, SECOND XX INDICATES CAMERA NUMBER |
| CMR XXX AFF | CORNER MOUNT AT XXXmm AFF. XXXX INDICATES SPECIFIC HEIGHT |
| PM XXX AFF | PENDANT MOUNT AT XXXmm AFF. XXXX INDICATES SPECIFIC HEIGHT |
| PTM XXX AFF | PARAPET MOUNT AT XXXmm AFF. XXXX INDICATES SPECIFIC HEIGHT |
| PLE XXX AFF | POLE MOUNT AT XXXmm AFF. XXXX INDICATES SPECIFIC HEIGHT |
| TYPE-XX | DEVICE TYPE. XX INDICATES SPECIFIC TYPE. REFER TO RELATIVE SPECIFICATIONS AND OR SCHEDULES FOR ADDITIONAL DETAILS |
| FUNC-XX | FUNCTION TYPE. XX INDICATES SPECIFIC CAMERA FUNCTION DESCRIPTION. FUNC 01=DETECT, FUNC 02=OBSERVE, FUNC 03=RECORDING, FUNC 04=STATIONARY REFER TO SPECIFICATIONS AND SCHEDULES FOR ADDITIONAL DETAILS |
| NOTE: NOT ALL SYMBOLS APPLY. CONTRACTOR TO REFER TO FLOOR PLANS. | |

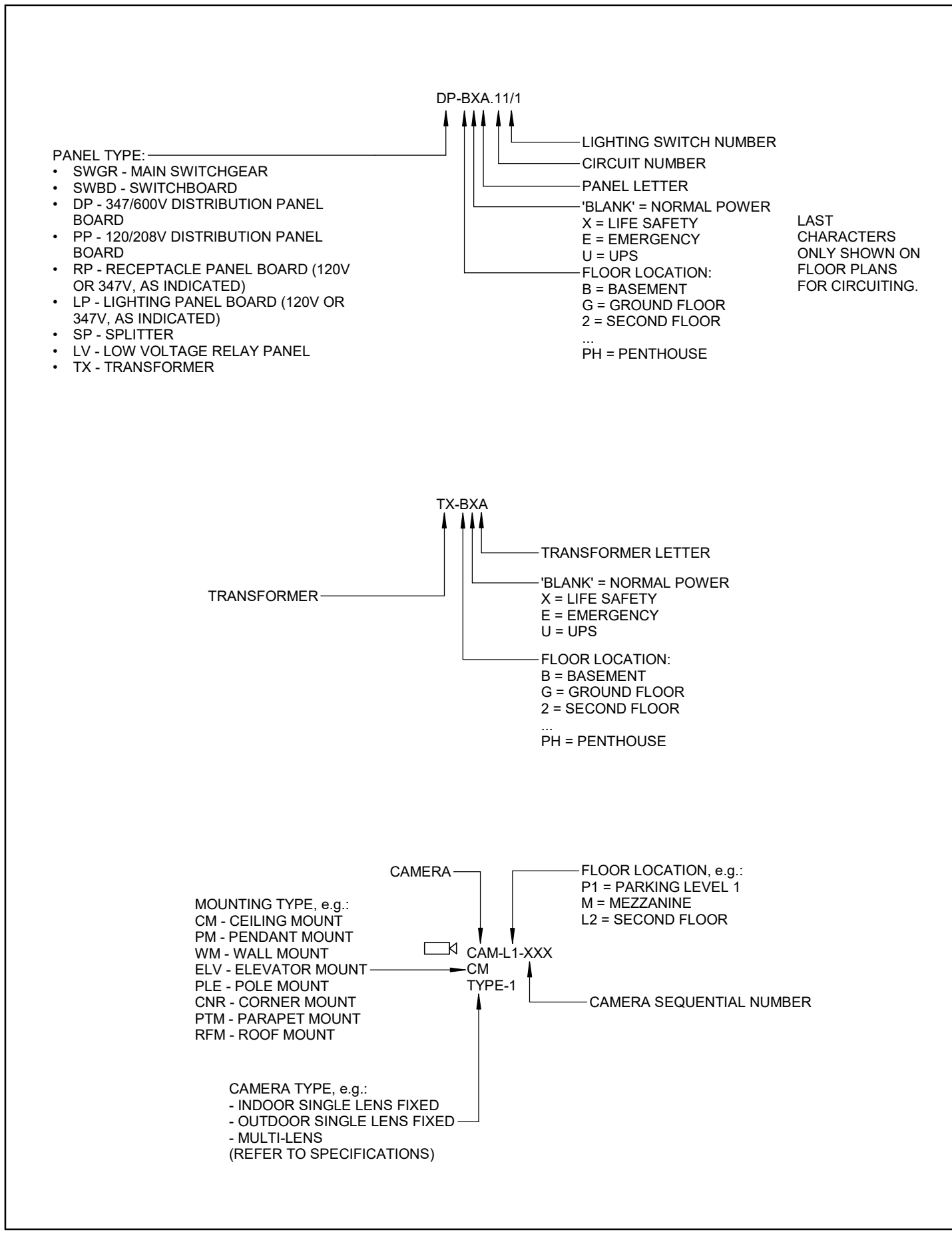
13 SECURITY ABBREVIATIONS

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|--------|--|--------|--|
| | WALL MOUNTED DATA AND VPD DATA OUTLETS 1 DATA CABLES UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION | | EMERGENCY PHONE SYSTEM OUTLETS 1 ANALOG VOICE CABLE UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION |
| | WALL MOUNTED ANALOG VOICE OUTLETS 1 ANALOG VOICE CABLE UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION | | COMMUNICATIONS INTERCOM OUTLETS 1 DATA CABLE UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION |
| | WALL MOUNTED DATA AND VPD DATA OUTLETS 1 DATA CABLES UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION | | RACEWAY MOUNTED DATA AND VPD DATA OUTLETS 1 DATA CABLES UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION |
| | FLOOR MOUNTED DATA AND VPD DATA OUTLETS 1 DATA CABLES UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION | | MAIN CABLE SUPPORT RISER FOR COMMUNICATIONS CABLING |
| | FLOOR MOUNTED ANALOG VOICE OUTLETS 1 ANALOG VOICE CABLE UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION | | COMMUNICATIONS BOX |
| | FLOOR MOUNTED DATA OUTLETS 1 DATA CABLES UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION | | POWER ZONE BOX |
| | TELEPHONE ZONE BOX | | FEED POINT FOR COMMUNICATIONS CABLING LETTER DENOTES FEED LOCATION W = WALL, F = FLOOR, P = PAC POLE, WM = WIREMOLD |
| | FURNITURE MOUNTED DATA OUTLETS 1 DATA CABLES UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION | | TWO (2) DATA CABLES |
| | CEILING MOUNTED DATA AND VPD DATA OUTLETS 1 DATA CABLES UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION | | THREE (3) DATA CABLES |
| | CEILING MOUNTED DATA OUTLETS 1 DATA CABLES UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION | | |
| | CEILING MOUNTED DATA OUTLETS 1 DATA CABLES UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION | | |
| | CEILING MOUNTED DATA OUTLETS 1 DATA CABLES UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION | | |

14 DATA/COMMUNICATIONS

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|--|---|--------|--|
| | AUDIO VISUAL SYSTEM | | PROJECTOR |
| | DEVICE IDENTIFICATION NUMBER | | PROJECTOR ON LIFT |
| | AV EQUIPMENT RACK RACK VV DESIGNATION: AV = FREE STANDING EQUIPMENT CR = OVERHEAD RACK RC = RACK ON CASTERS | | PROJECTION SCREEN NOTE: 'XX' DENOTES SCREEN SIZE (INCHES) |
| | WALL MOUNT FLAT PANEL DISPLAY DISPLAY 'TAG' DESIGNATION: 'FPD' = FLAT PANEL DISPLAY 'IAD' = INTERACTIVE DISPLAY 'SD' = DIGITAL SIGNAGE DISPLAY 'MAY' = MEDIA WALL DISPLAYS. SEE DRAWING FOR QUANTITIES NOTE: 'XX' DENOTES SCREEN SIZE (INCHES) | | CEILING RECESSED SPEAKER 'S' = AV SPEAKER |
| | CEILING MOUNT FLAT PANEL DISPLAY DISPLAY 'TAG' DESIGNATION: 'FPD' = FLAT PANEL DISPLAY 'IAD' = INTERACTIVE DISPLAY 'SD' = DIGITAL SIGNAGE DISPLAY 'MAY' = MEDIA WALL DISPLAYS. SEE DRAWING FOR QUANTITIES NOTE: 'XX' DENOTES SCREEN SIZE (INCHES) | | SURFACE MOUNT FLAT PANEL DISPLAY 'TAG' DESIGNATION: 'S' = AV SPEAKER |
| | WALL MOUNT ANTENNA 'TAG' DESIGNATION: 'ANT' = MICROPHONE ANTENNA 'HA' = HEARING ASSIST ANTENNA | | WALL MOUNT ANTENNA 'TAG' DESIGNATION: 'ANT' = MICROPHONE ANTENNA 'HA' = HEARING ASSIST ANTENNA |
| | WALL MOUNT AV INTERFACE 'TAG' DESIGNATION: 'RBD' = ROOM BOOKING DISPLAY 'MRO' = MEETING ROOM DISPLAY 'CTL' = TOUCH CONTROL PANEL NOTE: 'XX' DENOTES SCREEN SIZE (INCHES) | | CEILING MOUNT ANTENNA 'TAG' DESIGNATION: 'ANT' = MICROPHONE ANTENNA 'HA' = HEARING ASSIST ANTENNA |
| | BUTTON CONTROL PANEL BY AUDIOVISUAL CONTRACTOR 'TAG' DESIGNATION: 'BPP' = BUTTON PANEL 'VCL' = VIDEO CONTROL 'SD' = SCREEN CONTROL (FOR PROJECTION SCREENS) | | CEILING MOUNT MICROPHONE |
| | FLOORBOX CONNECTION FOR TABLETOP CONNECTIVITY | | AV MURING (✓ 1 GANG) (✓ 2 GANG) (✓ 3 GANG) |
| | WALL MOUNT AV CAMERA | | AV BACKBOX (✓ 1 GANG) (✓ 2 GANG) (✓ 3 GANG) |
| | CEILING MOUNT AV CAMERA | | AV CABLE PULL BOX SIZE DESIGNATION: '300' = 300MM AV CABLE PULL BOX '12X12' = 12X12X6 AV CABLE PULL BOX |
| NOTE: NOT ALL SYMBOLS APPLY. REFER TO DRAWINGS | | | |

15 AV LEGEND



10 DESIGNATION DIAGRAM

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|----------------------------------|-------------------------------|--------|------------------------------------|
| ACCESS CONTROL | | | |
| | ACCESS CONTROL SYSTEM PANEL | | KEY SWITCH |
| | ACCESS CONTROL SYSTEM SERVER | | LATCH BOLT MONITOR |
| | AUTOMATIC DOOR OPERATOR | | LATCH REQUEST TO EXIT |
| | CARD READER (SALTO) | | MAGLOCK KEY RESET SWITCH |
| | CARD READER (HALO) | | MAGNETIC DOOR HOLDOPEN DEVICE |
| | CENTRAL MANAGEMENT STATION | | MAGNETIC LOCK |
| | DOOR ALARM | | MOTION REQUEST TO EXIT |
| | DOOR CONTACT | | POWER SUPPLY CONTROL UNIT |
| | ELECTRIC DOOR HOLDOPEN DEVICE | | PUSH BUTTON DOOR OPERATOR |
| | ELECTRIC LATCH RETRACTION | | PUSH BUTTON REQUEST TO EXIT |
| | ELECTRIC MORTISE LOCK | | REMOTE RELEASE |
| | ELECTRIC STRIKE | | RF MODE |
| | GATEWAY | | RF RECEIVER |
| | IP DOOR CONTROLLER | | SECURITY DOOR TAG. XX DENOTES TYPE |
| | KEY ENCODER | | WIRELESS LOCK |
| REAL TIME LOCATING SYSTEM (RTLS) | | | |
| | LOW FREQUENCY EXCITER | | RF READER MASTER |
| | INFRARED READER | | RF READER |
| | REMOTE DISPLAY UNIT | | RF ETHERNET READER |
| | LOCAL AREA RECEIVER | | RF LONG RANGE READER |

11 SECURITY LEGEND 1 OF 2

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|--------------------------------|-------------------------|--------|---|
| ELECTRONIC PERSONAL PROTECTION | | | |
| | EMERGENCY PHONE STATION | | DURESS ALARM STATION |
| | STROBE LIGHT | | PANIC ALARM RECEIVER |
| | PANIC BUTTON | | ASSISTANCE REQUIRED SIGNAGE |
| INTERCOM LEGEND | | | |
| | INTERCOM | | MASTER INTERCOM |
| | ENTRY PHONE CONSOLE | | |
| VIDEO SURVEILLANCE | | | |
| | FIXED CAMERA | | VIDEO SURVEILLANCE SYSTEM SERVER |
| | PAN-TILT-ZOOM CAMERA | | POWER INJECTOR |
| | PERSONAL COMPUTER | | VIDEO MONITOR |
| | COMPUTER MONITOR | | FIXED VIDEO SURVEILLANCE CAMERA HORIZONTAL ANGLE OF VIEW |
| | DIGITAL VIDEO RECORDER | | LCD MONITOR SIZE AS INDICATED |
| | NETWORK VIDEO RECORDER | | |
| INTRUSION DETECTION | | | |
| | SIREN | | INTRUSION DETECTION SYSTEM PANEL |
| | BREAK GLASS SENSOR | | POWER SUPPLY |
| | MOISTURE SENSOR | | WALL MOUNTED SECURITY MOTION SENSOR |
| | KEYPAD | | CEILING MOUNTED SECURITY 360° MOTION SENSOR |

12 SECURITY LEGEND 2 OF 2

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|--|---|--------|--|
| SIGNALING DEVICES | | | |
| | CEILING MOUNTED HORN | | WALL MOUNTED FIRE ALARM BELL - 103mm (4") UNLESS OTHERWISE NOTED |
| | WALL MOUNTED HORN | | WALL MOUNTED FIRE ALARM BELL + STROBE COMBINATION |
| | CEILING MOUNTED DOUBLE SIDED HORN | | SPEAKER HORN |
| | WALL MOUNTED DOUBLE SIDED HORN | | CEILING MOUNTED EMERGENCY EVACUATION SPEAKER |
| | CEILING MOUNTED HORN-STROBE COMBINATION. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED | | CEILING MOUNTED EMERGENCY EVACUATION SPEAKER + STROBE COMBINATION. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED |
| | WALL MOUNTED HORN-STROBE COMBINATION. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED | | WALL MOUNTED EMERGENCY EVACUATION SPEAKER + STROBE COMBINATION. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED |
| | CEILING MOUNTED DOUBLE SIDED HORN-STROBE COMBINATION. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED | | CEILING MOUNTED FIRE ALARM STROBE. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED |
| | WALL MOUNTED DOUBLE SIDED HORN-STROBE COMBINATION. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED | | WALL MOUNTED FIRE ALARM STROBE. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED |
| | MINI HORN | | |
| ANCILLARY DEVICES | | | |
| | ISOLATION MODULE | | MONITORING MODULE FOR ALARM OR SUPERVISORY |
| | FIELD INSTALLED ADDRESSABLE CONTROL PANEL | | TROUBLE AND ALARM CONNECTION TO PRE-ACTION CONTROL PANEL |
| | TYRE DO NOT ENTER SIGN | | FLOOD MOUNTED DOOR HOLD OPEN DEVICE |
| | FIRE ALARM GRAPHIC (PASSIVE/ACTIVE) | | WALL MOUNTED DOOR HOLD OPEN DEVICE |
| | VIDEO DISPLAY TERMINAL FOR BUILDING OPERATIONS PERSONNEL | | FIRE ALARM ALARM CONTROL, DOP OR ANNUNCIATOR AS NOTED |
| | FIRE FIGHTERS HAND SET | | END-OF-LINE RESISTOR TERMINATION |
| | FIRE ALARM SHUT DOWN | | SMOKE DAMPER USED IN CONJUNCTION WITH MONITORING DEVICE FOR POSITION ANNUNCIATION AND CONTROL DEVICE |
| | FIRE ALARM START UP | | 10 MINUTES SILENCE SWITCH FOR SPEAKERS IN SUITES |
| | REMOTE TESTING STATION FOR DUCT SMOKE DETECTORS | | |
| NOTE: NOT ALL SYMBOLS APPLY. REFER TO DRAWINGS | | | |

7 FIRE ALARM LEGEND 2 OF 2

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|--------|---|--------|--|
| | ISOLATION TRANSFORMER - DELTA-WYE UNLESS OTHERWISE NOTED | | AUTO-TRANSFORMER |
| | ISOLATION TRANSFORMER WITH ELECTROSTATIC SHIELDING - DELTA-WYE UNLESS OTHERWISE NOTED | | BATTERY |
| | MOLDED CASE CIRCUIT BREAKER, SIZE AS SHOWN | | CONTACTOR |
| | LOW VOLTAGE DRAW-OUT CIRCUIT BREAKER, TRIP PLUG AND FRAME SIZE AS SHOWN | | CURRENT TRANSFORMER (Z.S. - DENOTES ZERO SEQUENCE) |
| | DRAW-OUT VACUUM CIRCUIT BREAKER, PROTECTIVE RELAY FUNCTIONS AND FRAME SIZE AS SHOWN | | GROUND FAULT ALARM RELAY |
| | FUSIBLE LOAD BREAK ISOLATION SWITCH, VOLTAGE AND FRAME SIZE AS SHOWN | | IP BASED POWER QUALITY DIGITAL METER, PROVISION THROUGHOUT CONDUIT TO NEAREST TELECOM ROOM |
| | FUSE | | EMERGENCY GENERATOR |
| | INSULATED CASE CIRCUIT BREAKER | | GROUND CONNECTION POINT |
| | INTEGRAL BREAKER AND STARTER UNIT, BREAKER AND FRAME SIZE AS SHOWN | | ELECTRONIC TRIP SETTING CONTROL (GROUND FAULT) |
| | INTEGRAL SWITCH AND FUSE UNIT, FUSE AND FRAME SIZE AS SHOWN | | GROUND LOOP |
| | LOAD BREAK ISOLATION SWITCH, VOLTAGE AND FRAME SIZE AS SHOWN | | HIGH RESISTANCE GROUND FAULT SYSTEM |
| | AUTOMATIC TRANSFER SWITCH WITH BY-PASS | | LIGHTNING SURGE ARRESTOR |
| | AUTOMATIC TRANSFER SWITCH WITHOUT BY-PASS | | LOAD BANK |
| | FIRE PUMP AUTOMATIC TRANSFER SWITCH AND STARTER UNIT (BY OTHERS) | | METERING SOCKET |
| | MANUAL TRANSFER SWITCH OR DOUBLE THROW SWITCH | | METERING CABINET |
| | | | DIGITAL ELECTRONIC METER |
| | | | AMMETER |

8 SINGLE LINE 1 OF 2

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|--|---|--------|---|
| | SURGE PROTECTION DEVICE | | KEY INTERLOCK SYSTEM - ONE KEY |
| | POTENTIAL TRANSFORMER | | KEY INTERLOCK SYSTEM - N LOCKS, N-1 KEYS UNLESS NOTED OTHERWISE |
| | ZERO SEQUENCE CURRENT TRANSFORMER | | ELECTRONIC INTERLOCK SYSTEM |
| | UPS DIODE | | MEDIUM VOLTAGE CABLE TERMINATION POINT WITH STRESS CONE |
| | VOLTAGE INDICATOR | | ELECTRONIC TRANSFORMER TEMPERATURE RELAY |
| | DENOTED CONNECT'ED LOAD APPLIED TO DESIGNATED APPARATUS | | POWER METER |
| | AUTOMATIC POWER FACTOR CORRECTION CAPACITOR SYSTEM, SIZE AS SHOWN, COMPLETE WITH TUNED INPUT FILTER | | DIGITAL TRIP UNIT WITH METERING FUNCTION |
| | HIGH RESISTANCE GROUNDING RESISTOR - MAXIMUM CONTINUOUS AMPS AS SHOWN | | SHUNT TRIP |
| | RELAY FUNCTION NUMBER | | IP BASED GATEWAY FOR POWER MONITORING |
| | ELECTRONIC TRIP SETTING CONTROL (LONG, SHORT) | | |
| | ELECTRONIC TRIP SETTING CONTROL (LONG, SHORT, INSTANTANEOUS) | | |
| | ELECTRONIC TRIP SETTING CONTROL (LONG, SHORT, INSTANTANEOUS, GROUND FAULT) | | |
| NOTE: NOT ALL SYMBOLS APPLY. REFER TO DRAWINGS | | | |

9 SINGLE LINE 2 OF 2

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|--|---|--------|--|
| | WALL MOUNTED DUPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R | | WALL MOUNTED SIMPLEX RECEPTACLE 200V, 30 AMP, CSA 14-30R |
| | WALL MOUNTED ABOVE COUNTER DUPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R | | WALL MOUNTED COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R. REFER TO CORRESPONDING DETAIL |
| | WALL MOUNTED DUPLEX RECEPTACLE 120V, 20 AMP, CSA 5-20R (SLOTT) | | FLOOR OR CEILING MOUNTED (AS SHOWN) DUPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R. REFER TO CORRESPONDING DETAIL |
| | WALL MOUNTED DUPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R, DEDICATED | | FLOOR POKE THROUGH COMBINATION COMMUNICATION / DUPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R. REFER TO CORRESPONDING DETAIL |
| | WALL MOUNTED DUPLEX GROUND FAULT RECEPTACLE 120V, 15 AMP, CSA 5-15R | | WALL MOUNTED COMBINATION COMMUNICATION / DUPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R. REFER TO CORRESPONDING DETAIL |
| | WALL MOUNTED ABOVE COUNTER DUPLEX GROUND FAULT RECEPTACLE 120V, 15 AMP, CSA 5-15R | | FLOOR OR CEILING MOUNTED (AS SHOWN) COMBINATION COMMUNICATION / DUPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R. REFER TO CORRESPONDING DETAIL |
| | WALL MOUNTED QUADPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R | | FLOOR POKE THROUGH COMBINATION COMMUNICATION / DUPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R. REFER TO CORRESPONDING DETAIL |
| | WALL MOUNTED DUPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R, 2 POLE, SPLIT CIRCUIT | | CEILING MOUNTED SIMPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R |
| | WALL MOUNTED SIMPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R | | CEILING MOUNTED QUADPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R |
| | SPECIAL RECEPTACLE, TYPE AND DETAILS AS NOTED ON DRAWING | | FLOOR MOUNTED DUPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R |
| | WALL MOUNTED ABOVE COUNTER SIMPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R | | RACEWAY RECEPTACLE, TYPE AS SPECIFIED, C/W QUANTITY OF DEVICES INDICATED |
| | WALL MOUNTED SIMPLEX RECEPTACLE 200V, 30 AMP, CSA 14-30R | | SERVICE POLE, TYPE AS SPECIFIED, C/W QUANTITY OF DEVICES INDICATED |
| | WALL MOUNTED SIMPLEX RECEPTACLE 120V, 30 AMP, CSA 5-30R | | WALL MOUNTED DUPLEX C/W USB A/C LEVITON T504-W |
| NOTE: NOT ALL SYMBOLS APPLY. REFER TO DRAWINGS | | | |

4 POWER LEGEND 1 OF 2

| SYMBOL |
|--------|
|--------|

| NOTE | DEVICE BY | CONDUIT BY | WIRING BY | COMMENTS |
|------|--------------------------|-----------------------|--------------------------|--|
| W-1 | DOOR HARDWARE CONTRACTOR | ELECTRICAL CONTRACTOR | SECURITY CONTRACTOR | SECURITY CONTRACTOR SHALL PROVIDE ALL WIRING FROM THE ACCESS CONTROL SYSTEMS CONTROLLER TO THE TERMINAL STRIP AND FROM THE TERMINAL STRIP TO RESPECTIVE DEVICES EXCEPT ELECTRIFIED LOCKS. |
| W-2 | SECURITY CONTRACTOR | ELECTRICAL CONTRACTOR | SECURITY CONTRACTOR | DOOR HARDWARE CONTRACTOR SHALL PROVIDE ALL WIRING FROM THE TERMINAL STRIP TO ALL ELECTRIFIED LOCKS. ALL WIRING FOR ALL ELECTRIFIED LOCKS INCLUDING BUT NOT LIMITED TO ELECTRIC STRIKES, ELECTRIC LATCH RETRACTION, ELECTRIC MORTISE LOCKS AND MAGLOCKS SHALL INCLUDE MINIMUM ONE (1) SPARE PAIR OF CONDUCTORS FOR LATCH MONITORING OR FUTURE USE. SECURITY CONTRACTOR SHALL PROVIDE ALL CONTROLLERS AND CONFIGURE THE ACCESS CONTROL SYSTEM CONTROLLERS TO ACHIEVE REQUIRED MODES OF DOOR OPERATION. THE TERMINAL STRIP SHALL BE EQUIPPED WITH QUANTITY OF TERMINALS TO FACILITATE INTERFACING OF ALL DEVICE WIRING. ALL TERMINAL STRIPS BY SECURITY CONTRACTOR SHALL BE MAGNETIC LOCK. |
| W-3 | ELECTRICAL CONTRACTOR | ELECTRICAL CONTRACTOR | ELECTRICAL CONTRACTOR | WIRING FROM FIRE ALARM PULL STATION TO FIRE ALARM PANEL. |
| W-4 | ELECTRICAL CONTRACTOR | ELECTRICAL CONTRACTOR | ELECTRICAL CONTRACTOR | WIRING FROM FIRE ALARM PULL STATION TO FIRE ALARM PANEL. |
| W-5 | N/A | ELECTRICAL CONTRACTOR | ELECTRICAL CONTRACTOR | WIRING FROM 120VAC POWER SUPPLY SOURCE. |
| W-6 | DOOR HARDWARE CONTRACTOR | ELECTRICAL CONTRACTOR | DOOR HARDWARE CONTRACTOR | N/A |

| DEVICE | MOUNTING HEIGHT | DEVICE | MOUNTING HEIGHT |
|--------|----------------------|--------|---|
| CR | 1100 MM (43 IN.) AFF | MRX | WALL OR CEILING MOUNT ABOVE DOOR AS RECOMMENDED BY MANUFACTURER |
| PRX | 1100 MM (43 IN.) AFF | DA | CEILING MOUNT ABOVE DOOR |

FOR ALL OTHER DEVICES REFER TO RESPECTIVE DISCIPLINE CONTRACT DESIGN DOCUMENT.

- GENERAL NOTES:**
- REFER TO SECURITY PLAN DRAWINGS, ELECTRICAL DRAWINGS AND DOOR HARDWARE SCHEDULE FOR ADDITIONAL DETAILS.
 - COORDINATE EXACT LOCATIONS OF DEVICES ON SITE WITH ELECTRICAL AND DOOR HARDWARE CONTRACTOR.
 - ALL TERMINAL STRIPS SHALL BE PROVIDED AND INSTALLED BY THE SECURITY CONTRACTOR.
 - THIS DIAGRAM SHALL BE READ IN CONJUNCTION WITH THE DOOR AND HARDWARE SCHEDULE.
 - ALL WIRING SHALL BE INSTALLED IN CONDUITS. ALL CONDUIT SHALL BE 10mm UNLESS OTHERWISE NOTED.
 - PROVIDE TO INTERFACING WITH DEVICES AND DEVICE ASSOCIATED WIRING THAT ARE PROVIDED BY ELECTRICAL AND DOOR AND HARDWARE (D+H) CONTRACTORS. COORDINATE WITH THE ELECTRICAL AND DOOR AND HARDWARE (D+H) CONTRACTORS AND ENSURE THAT ALL DEVICES AND WIRING PROVIDED ARE CERTIFIED BY THE RESPECTIVE TRADE TO BE IN PROPER WORKING ORDER.
 - PROVIDE ALL ACTIVE AND PASSIVE HARDWARE, ALL WIRING AND PROGRAMMING OF SECURITY SYSTEM SOFTWARE TO FACILITATE EACH MODE OF OPERATION FOR EACH DOOR.
 - ALL DOOR HARDWARE DEVICES PROVIDED SHALL MEET ALL REQUIREMENTS LISTED IN THE ACCESSIBILITY FOR ONTARIANS WITH DISABILITIES ACT (AODA).
 - FOR ALL DOORS THAT ARE EQUIPPED WITH AUTOMATIC DOOR OPERATORS PROVIDE ALL ACCESS CONTROL CONTROLLERS AND WIRING REQUIRED TO INTEGRATE THE AUTOMATIC DOOR OPERATORS AND PUSH BUTTON OPERATORS WITH THE ACCESS CONTROL CONTROLLERS TO FACILITATE THE SEQUENCE OF OPERATION.

6 DOOR DETAIL NOTES

DRAWING NOTES:

N-1 PANIC RESET BUTTON.

N-2 PANIC BUTTON.

N-3 ARMoured CABLE.

N-4 SECURITY WIRING IN MINIMUM 3/4" (21mm) CONDUIT.

N-5 CORE DRILL THROUGH FLOOR.

N-6 JUNCTION BOX MOUNTED TO UNDERSIDE OF SLAB.

SYMBOL ON PLAN

GENERAL NOTES:

- DIAGRAM SHOWN IMPLIES INTENT AND NOT A SPECIFIC MANUFACTURER'S MODEL. REFER TO SPECIFICATIONS FOR REQUIREMENTS AND PLANS FOR EXACT QUANTITY OF DEVICES PROVIDED AND INSTALL ALL MAJOR AND MISCELLANEOUS MOUNTING HARDWARE TO FACILITATE PROPER MOUNTING AS RECOMMENDED BY MANUFACTURER.
- COORDINATE EXACT REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
- ALL CONDUITS TO BE CLEARLY MARKED AT BOTH ENDS.
- MAXIMUM CONDUIT SIZE SHALL BE 3/4" (21mm) UNLESS OTHERWISE NOTED.
- CONFIRM EXACT LOCATION AND MOUNTING HEIGHT OF ALL BACK BOXES WITH ARCHITECT ON SITE PRIOR TO INSTALLATION.
- ELECTRICAL CONTRACTOR TO PROVIDE ALL CONDUIT C/W PULLSTRINGS AND BACK BOXES. SECURITY CONTRACTOR SHALL PROVIDE ALL LOW VOLTAGE WIRING, HARDWARE, SOFTWARE, DEVICES AND CONFIGURATION AS REQUIRED FOR A COMPLETELY FUNCTIONAL AND FULLY OPERATIONAL SYSTEM.
- WIRING SHALL BE COORDINATED AND CONFIRMED WITH SUPPLIER.

8 UNDER DESK MOUNTED PANIC RESET BUTTON DETAIL

DRAWING NOTES:

N-1 PANIC RESET BUTTON.

N-2 PANIC BUTTON.

N-3 ARMoured CABLE.

N-4 SECURITY WIRING IN MINIMUM 3/4" (21mm) CONDUIT.

N-5 CORE DRILL THROUGH FLOOR.

N-6 JUNCTION BOX MOUNTED TO UNDERSIDE OF SLAB.

SYMBOL ON PLAN

GENERAL NOTES:

- DIAGRAM SHOWN IMPLIES INTENT AND NOT A SPECIFIC MANUFACTURER'S MODEL. REFER TO SPECIFICATIONS FOR REQUIREMENTS AND PLANS FOR EXACT QUANTITY OF DEVICES PROVIDED AND INSTALL ALL MAJOR AND MISCELLANEOUS MOUNTING HARDWARE TO FACILITATE PROPER MOUNTING AS RECOMMENDED BY MANUFACTURER.
- COORDINATE EXACT REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
- ALL CONDUITS TO BE CLEARLY MARKED AT BOTH ENDS.
- MAXIMUM CONDUIT SIZE SHALL BE 3/4" (21mm) UNLESS OTHERWISE NOTED.
- CONFIRM EXACT LOCATION AND MOUNTING HEIGHT OF ALL BACK BOXES WITH ARCHITECT ON SITE PRIOR TO INSTALLATION.
- ELECTRICAL CONTRACTOR TO PROVIDE ALL CONDUIT C/W PULLSTRINGS AND BACK BOXES. SECURITY CONTRACTOR SHALL PROVIDE ALL LOW VOLTAGE WIRING, HARDWARE, SOFTWARE, DEVICES AND CONFIGURATION AS REQUIRED FOR A COMPLETELY FUNCTIONAL AND FULLY OPERATIONAL SYSTEM.
- WIRING SHALL BE COORDINATED AND CONFIRMED WITH SUPPLIER.

DRAWING NOTES:

N-1 PANIC RESET BUTTON.

N-2 PANIC BUTTON.

N-3 ARMoured CABLE.

N-4 SECURITY WIRING IN MINIMUM 3/4" (21mm) CONDUIT.

N-5 CORE DRILL THROUGH FLOOR.

N-6 JUNCTION BOX MOUNTED TO UNDERSIDE OF SLAB.

GENERAL NOTES:

- REFER TO DOOR DETAIL NOTES FOR ADDITIONAL INFORMATION.
- DOOR HANDLES SHOWN ARE DIAGRAMMATIC. REFER TO DOOR HARDWARE SCHEDULE FOR EXACT DOOR HANDLE TYPE.

DRAWING NOTES:

N-1 ONLINE WIRELESS LOCK COMPLETE WITH INTEGRATED DEVICES AS SHOWN BY DOOR HARDWARE CONTRACTOR. SECURITY CONTRACTOR SHALL COORDINATE WITH DOOR HARDWARE CONTRACTOR, INTEGRATE AND COMMISSION THE WIRELESS LOCK WITH THE ACCESS CONTROL SYSTEM.

N-2 WIRELESS SALTO LOCKS BY OTHERS. SALTO GATEWAYS, NODES AND ALL ASSOCIATED CABLING BY SECURITY CONTRACTOR.

3 DOOR DETAIL 1

DRAWING NOTES:

N-1 PANIC RESET BUTTON.

N-2 PANIC BUTTON.

N-3 ARMoured CABLE.

N-4 SECURITY WIRING IN MINIMUM 3/4" (21mm) CONDUIT.

N-5 CORE DRILL THROUGH FLOOR.

N-6 JUNCTION BOX MOUNTED TO UNDERSIDE OF SLAB.

GENERAL NOTES:

- REFER TO DOOR DETAIL NOTES FOR ADDITIONAL INFORMATION.
- DOOR HANDLES SHOWN ARE DIAGRAMMATIC. REFER TO DOOR HARDWARE SCHEDULE FOR EXACT DOOR HANDLE TYPE.

4 DOOR DETAIL 2

DRAWING NOTES:

N-1 PANIC RESET BUTTON.

N-2 PANIC BUTTON.

N-3 ARMoured CABLE.

N-4 SECURITY WIRING IN MINIMUM 3/4" (21mm) CONDUIT.

N-5 CORE DRILL THROUGH FLOOR.

N-6 JUNCTION BOX MOUNTED TO UNDERSIDE OF SLAB.

GENERAL NOTES:

- REFER TO DOOR DETAIL NOTES FOR ADDITIONAL INFORMATION.
- DOOR HANDLES SHOWN ARE DIAGRAMMATIC. REFER TO DOOR HARDWARE SCHEDULE FOR EXACT DOOR HANDLE TYPE.

5 DOOR DETAIL 3

DRAWING NOTES:

N-1 PANIC RESET BUTTON.

N-2 PANIC BUTTON.

N-3 ARMoured CABLE.

N-4 SECURITY WIRING IN MINIMUM 3/4" (21mm) CONDUIT.

N-5 CORE DRILL THROUGH FLOOR.

N-6 JUNCTION BOX MOUNTED TO UNDERSIDE OF SLAB.

GENERAL NOTES:

- REFER TO DOOR DETAIL NOTES FOR ADDITIONAL INFORMATION.
- DOOR HANDLES SHOWN ARE DIAGRAMMATIC. REFER TO DOOR HARDWARE SCHEDULE FOR EXACT DOOR HANDLE TYPE.

DRAWING NOTES:

N-1 PANIC RESET BUTTON.

N-2 PANIC BUTTON.

N-3 ARMoured CABLE.

N-4 SECURITY WIRING IN MINIMUM 3/4" (21mm) CONDUIT.

N-5 CORE DRILL THROUGH FLOOR.

N-6 JUNCTION BOX MOUNTED TO UNDERSIDE OF SLAB.

GENERAL NOTES:

- REFER TO DOOR DETAIL NOTES FOR ADDITIONAL INFORMATION.
- DOOR HANDLES SHOWN ARE DIAGRAMMATIC. REFER TO DOOR HARDWARE SCHEDULE FOR EXACT DOOR HANDLE TYPE.

1 DEVICE MOUNTING HEIGHTS

| SYSTEM COMPONENT | PREP DOOR | SUPPLY DEVICE | INSTALL DEVICE | SUPPLY AND INSTALL CONDUIT | SUPPLY AND INSTALL WIRING | COMMISSION | COMMENTS |
|--|--------------------------|---------------------------|---------------------------|----------------------------|--|--|---|
| WIRED SECURITY DOORS | | | | | | | |
| CARD READER (CR) | DOOR HARDWARE CONTRACTOR | SECURITY CONTRACTOR | SECURITY CONTRACTOR | ELECTRICAL CONTRACTOR | SECURITY CONTRACTOR | SECURITY CONTRACTOR | |
| DOOR CONTACT (DC) | DOOR HARDWARE CONTRACTOR | DOOR HARDWARE CONTRACTOR | SECURITY CONTRACTOR | ELECTRICAL CONTRACTOR | SECURITY CONTRACTOR | SECURITY CONTRACTOR | |
| ELECTRIC STRIKE (ES) | DOOR HARDWARE CONTRACTOR | DOOR HARDWARE CONTRACTOR | DOOR HARDWARE CONTRACTOR | ELECTRICAL CONTRACTOR | DOOR HARDWARE CONTRACTOR AND SECURITY CONTRACTOR | DOOR HARDWARE CONTRACTOR | ELECTRICAL CONTRACTOR SHALL USE LATEST DWS SCHEDULE TO COORDINATE CONDUIT REQUIREMENTS FOR DOOR LOCK MECHANISM. REFER TO DETAIL E8038 - NOTE # 1 & 1. |
| ELECTRIC LATCH RETRACTION (ELR) | DOOR HARDWARE CONTRACTOR | DOOR HARDWARE CONTRACTOR | DOOR HARDWARE CONTRACTOR | ELECTRICAL CONTRACTOR | DOOR HARDWARE CONTRACTOR AND SECURITY CONTRACTOR | DOOR HARDWARE CONTRACTOR | |
| ELECTRIC MORTISE LOCK (EML) | DOOR HARDWARE CONTRACTOR | DOOR HARDWARE CONTRACTOR | DOOR HARDWARE CONTRACTOR | ELECTRICAL CONTRACTOR | DOOR HARDWARE CONTRACTOR AND SECURITY CONTRACTOR | DOOR HARDWARE CONTRACTOR | |
| MOTION REQUEST TO EXIT (MRX) | DOOR HARDWARE CONTRACTOR | SECURITY CONTRACTOR | SECURITY CONTRACTOR | ELECTRICAL CONTRACTOR | SECURITY CONTRACTOR | SECURITY CONTRACTOR | |
| WIRING FROM DOOR DEVICES TO DOOR CONTROLLER OR TERMINAL STRIP | | SECURITY CONTRACTOR | SECURITY CONTRACTOR | ELECTRICAL CONTRACTOR | SECURITY CONTRACTOR | SECURITY CONTRACTOR | |
| POWER SUPPLY FOR ES/EM | | SECURITY CONTRACTOR | SECURITY CONTRACTOR | | SECURITY CONTRACTOR | SECURITY CONTRACTOR | |
| SALTO SERVER AND CLIENT COMPUTER MANAGEMENT SYSTEM (CMS) WITH SOFTWARE | | SECURITY CONTRACTOR | SECURITY CONTRACTOR | | SECURITY CONTRACTOR | SECURITY CONTRACTOR | |
| INTEGRATION OF INTRUSION DETECTION SYSTEM WITH ACCESS CONTROL SYSTEM TO RELAY ALL DOOR ALARMS FROM THE ACCESS CONTROL SYSTEM TO A 3RD PARTY ALARM MONITORING COMPANY | | SECURITY CONTRACTOR | SECURITY CONTRACTOR | ELECTRICAL CONTRACTOR | SECURITY CONTRACTOR | SECURITY CONTRACTOR | |
| ACCESS CONTROL CONTROLLER BOARDS | N/A | SECURITY CONTRACTOR | SECURITY CONTRACTOR | ELECTRICAL CONTRACTOR | SECURITY CONTRACTOR | SECURITY CONTRACTOR AND CLIENT | CONTROLLERS SHALL BE FILLED TO A MAXIMUM OF 75% OF THE MAXIMUM CARD READER CAPACITY TO ALLOW FOR FUTURE EXPANSION |
| SALTO CARD READER/PC CONTROLLER/CABLING | DOOR HARDWARE CONTRACTOR | SECURITY CONTRACTOR | SECURITY CONTRACTOR | ELECTRICAL CONTRACTOR | SECURITY CONTRACTOR | SECURITY CONTRACTOR | |
| WIRELESS SECURITY DOORS | | | | | | | |
| WIRELESS LOCKS | DOOR HARDWARE CONTRACTOR | DOOR HARDWARE CONTRACTOR | DOOR HARDWARE CONTRACTOR | N/A | N/A | SECURITY CONTRACTOR | |
| NODE/GATES | N/A | SECURITY CONTRACTOR | SECURITY CONTRACTOR | ELECTRICAL CONTRACTOR | SECURITY CONTRACTOR | SECURITY CONTRACTOR | |
| SALTO SOFTWARES | | SECURITY CONTRACTOR | SECURITY CONTRACTOR | N/A | SECURITY CONTRACTOR | SECURITY CONTRACTOR DOOR HARDWARE CONTRACTOR | |
| INTRUSION DETECTION SYSTEM | | | | | | | |
| DOOR CONTACT (DC) | DOOR HARDWARE CONTRACTOR | DOOR HARDWARE CONTRACTOR | SECURITY CONTRACTOR | ELECTRICAL CONTRACTOR | SECURITY CONTRACTOR | SECURITY CONTRACTOR | |
| MOTION REQUEST TO EXIT (MRX) | | SECURITY CONTRACTOR | SECURITY CONTRACTOR | ELECTRICAL CONTRACTOR | SECURITY CONTRACTOR | SECURITY CONTRACTOR | |
| MOTION DETECTOR | | SECURITY CONTRACTOR | SECURITY CONTRACTOR | ELECTRICAL CONTRACTOR | SECURITY CONTRACTOR | SECURITY CONTRACTOR | |
| KEYPADS | | SECURITY CONTRACTOR | SECURITY CONTRACTOR | ELECTRICAL CONTRACTOR | SECURITY CONTRACTOR | SECURITY CONTRACTOR | |
| GLASS BREAK DETECTOR | | SECURITY CONTRACTOR | SECURITY CONTRACTOR | ELECTRICAL CONTRACTOR | SECURITY CONTRACTOR | SECURITY CONTRACTOR | |
| WIRING FROM DOOR DEVICES TO DOOR CONTROLLER | | SECURITY CONTRACTOR | SECURITY CONTRACTOR | ELECTRICAL CONTRACTOR | SECURITY CONTRACTOR | SECURITY CONTRACTOR | |
| INTRUSION DETECTION CONTROLLER | | SECURITY CONTRACTOR | SECURITY CONTRACTOR | ELECTRICAL CONTRACTOR | SECURITY CONTRACTOR | SECURITY CONTRACTOR | |
| INTEGRATION OF INTRUSION DETECTION SYSTEM WITH ACCESS CONTROL SYSTEM TO RELAY ALL DOOR ALARMS FROM THE ACCESS CONTROL SYSTEM TO A 3RD PARTY ALARM MONITORING COMPANY | | SECURITY CONTRACTOR | SECURITY CONTRACTOR | ELECTRICAL CONTRACTOR | SECURITY CONTRACTOR | SECURITY CONTRACTOR | |
| VIDEO SURVEILLANCE SYSTEM | | | | | | | |
| CCTV CAMERA | | SECURITY CONTRACTOR | SECURITY CONTRACTOR | ELECTRICAL CONTRACTOR | COMMUNICATIONS CONTRACTOR | SECURITY CONTRACTOR | |
| UTP CAT 6 CABLE FROM CCTV CAMERA TO PATCH PANEL/DATA SWITCH | | SECURITY CONTRACTOR | SECURITY CONTRACTOR | ELECTRICAL CONTRACTOR | SECURITY CONTRACTOR | SECURITY CONTRACTOR | |
| PoE DATA SWITCH | CLIENT | CLIENT | COMMUNICATIONS CONTRACTOR | SECURITY CONTRACTOR | SECURITY CONTRACTOR AND CLIENT | SECURITY CONTRACTOR AND CLIENT | |
| VIDEO SURVEILLANCE SERVER/NETWORK VIDEO RECORDER (NVR) AND CLIENT COMPUTER MANAGEMENT SYSTEM (CMS) WITH SOFTWARE | CLIENT | CLIENT | N/A | SECURITY CONTRACTOR | SECURITY CONTRACTOR AND CLIENT | SECURITY CONTRACTOR AND CLIENT | |
| INTERCOM SYSTEM | | | | | | | |
| MASTER INTERCOM AND INTERCOM SYSTEM | | SECURITY CONTRACTOR | SECURITY CONTRACTOR | ELECTRICAL CONTRACTOR | SECURITY CONTRACTOR | SECURITY CONTRACTOR | |
| WIRING | | SECURITY CONTRACTOR | SECURITY CONTRACTOR | ELECTRICAL CONTRACTOR | SECURITY CONTRACTOR | SECURITY CONTRACTOR | |
| POWER SUPPLY | | SECURITY CONTRACTOR | SECURITY CONTRACTOR | | SECURITY CONTRACTOR | SECURITY CONTRACTOR | |
| MISCELLANEOUS PASSIVE EQUIPMENT | | | | | | | |
| 4-POST RACK IN MAIN TELECOM ROOM | | COMMUNICATIONS CONTRACTOR | COMMUNICATIONS CONTRACTOR | | N/A | SECURITY CONTRACTOR | |
| UTP CATEGORY 6 PATCH PANELS | | COMMUNICATIONS CONTRACTOR | COMMUNICATIONS CONTRACTOR | | N/A | SECURITY CONTRACTOR | |

| | | | | | | | |
|--------|----------------------|--------|----------------------|--------|---|--------|--------------------------|
| DEVICE | MOUNTING HEIGHT | DEVICE | MOUNTING HEIGHT | DEVICE | MOUNTING HEIGHT | DEVICE | MOUNTING HEIGHT |
| CR | 1100 MM (43 IN.) AFF | □ | 1100 MM (43 IN.) AFF | MRX | WALL OR CEILING MOUNT ABOVE DOOR AS RECOMMENDED BY MANUFACTURER | DA | CEILING MOUNT ABOVE DOOR |

| | | | | | | | |
|--------|----------------------|--------|----------------------|--------|---|--------|--------------------------|
| DEVICE | MOUNTING HEIGHT | DEVICE | MOUNTING HEIGHT | DEVICE | MOUNTING HEIGHT | DEVICE | MOUNTING HEIGHT |
| CR | 1100 MM (43 IN.) AFF | □ | 1100 MM (43 IN.) AFF | MRX | WALL OR CEILING MOUNT ABOVE DOOR AS RECOMMENDED BY MANUFACTURER | DA | CEILING MOUNT ABOVE DOOR |

| | | | | | | | |
|--------|----------------------|--------|----------------------|--------|---|--------|--------------------------|
| DEVICE | MOUNTING HEIGHT | DEVICE | MOUNTING HEIGHT | DEVICE | MOUNTING HEIGHT | DEVICE | MOUNTING HEIGHT |
| CR | 1100 MM (43 IN.) AFF | □ | 1100 MM (43 IN.) AFF | MRX | WALL OR CEILING MOUNT ABOVE DOOR AS RECOMMENDED BY MANUFACTURER | DA | CEILING MOUNT ABOVE DOOR |

- GENERAL NOTES:**
- REFER TO DOOR DETAIL NOTES FOR ADDITIONAL INFORMATION.
 - DOOR HANDLES SHOWN ARE DIAGRAMMATIC. REFER TO DOOR HARDWARE SCHEDULE FOR EXACT DOOR HANDLE TYPE.

| | | | | | | | |
|--------|----------------------|--------|----------------------|--------|---|--------|--------------------------|
| DEVICE | MOUNTING HEIGHT | DEVICE | MOUNTING HEIGHT | DEVICE | MOUNTING HEIGHT | DEVICE | MOUNTING HEIGHT |
| CR | 1100 MM (43 IN.) AFF | □ | 1100 MM (43 IN.) AFF | MRX | WALL OR CEILING MOUNT ABOVE DOOR AS RECOMMENDED BY MANUFACTURER | DA | CEILING MOUNT ABOVE DOOR |

2 SECURITY, DOOR HARDWARE, ELECTRICAL AND COMMUNICATIONS CONTRACTORS RESPONSIBILITY MATRIX FOR SECURITY DEVICES INSTALLATION

DRAWING NOTES:

N-1 PANIC RESET BUTTON.

N-2 PANIC BUTTON.

N-3 ARMoured CABLE.

N-4 SECURITY WIRING IN MINIMUM 3/4" (21mm) CONDUIT.

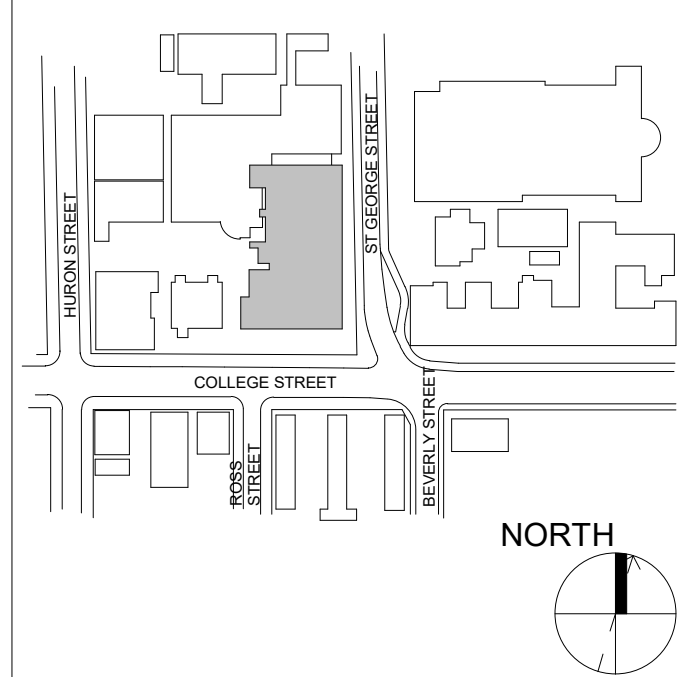
N-5 CORE DRILL THROUGH FLOOR.

N-6 JUNCTION BOX MOUNTED TO UNDERSIDE OF SLAB.

GENERAL NOTES:

- REFER TO DOOR DETAIL NOTES FOR ADDITIONAL INFORMATION.
- DOOR HANDLES SHOWN ARE DIAGRAMMATIC. REFER TO DOOR HARDWARE SCHEDULE FOR EXACT DOOR HANDLE TYPE.

KEY PLAN:



| REVISION | | |
|----------|------------|-----------------------|
| NO. | DATE | DESCRIPTION |
| 1 | 2024-10-04 | ISSUED FOR 50% PERMIT |
| 2 | 2024-11-15 | PERMIT |
| 3 | 2024-12-04 | ISSUED FOR FAS REVIEW |
| 4 | 2024-12-23 | ISSUED FOR FAS REVIEW |
| 5 | 2025-01-24 | ISSUED FOR FAS REVIEW |
| 6 | 2025-01-31 | ISSUED FOR BID |

| | | |
|-----|------------|-----------------------|
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| 6 | 2025-01-31 | ISSUED FOR BID |

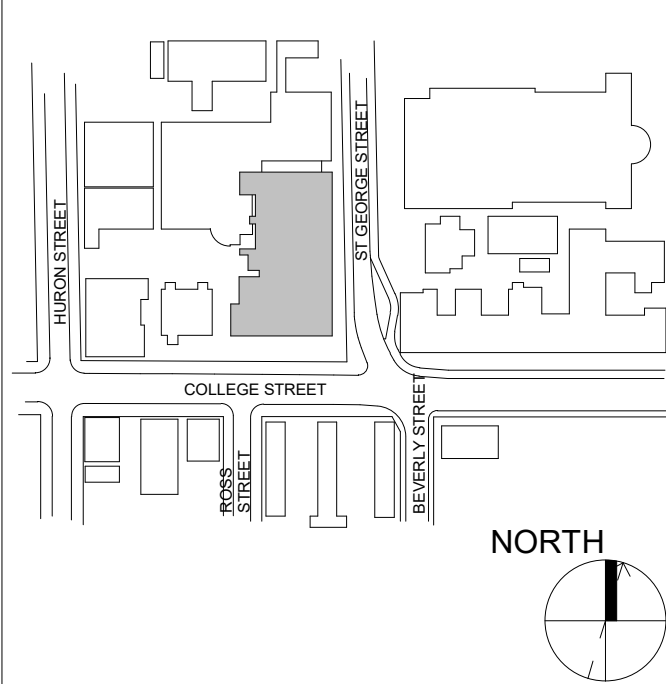
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| 4 | 2024-12-23 | ISSUED FOR FAS REVIEW |
| 5 | 2025-01-24 | ISSUED FOR FAS REVIEW |
| 6 | 2025-01-31 | ISSUED FOR BID |

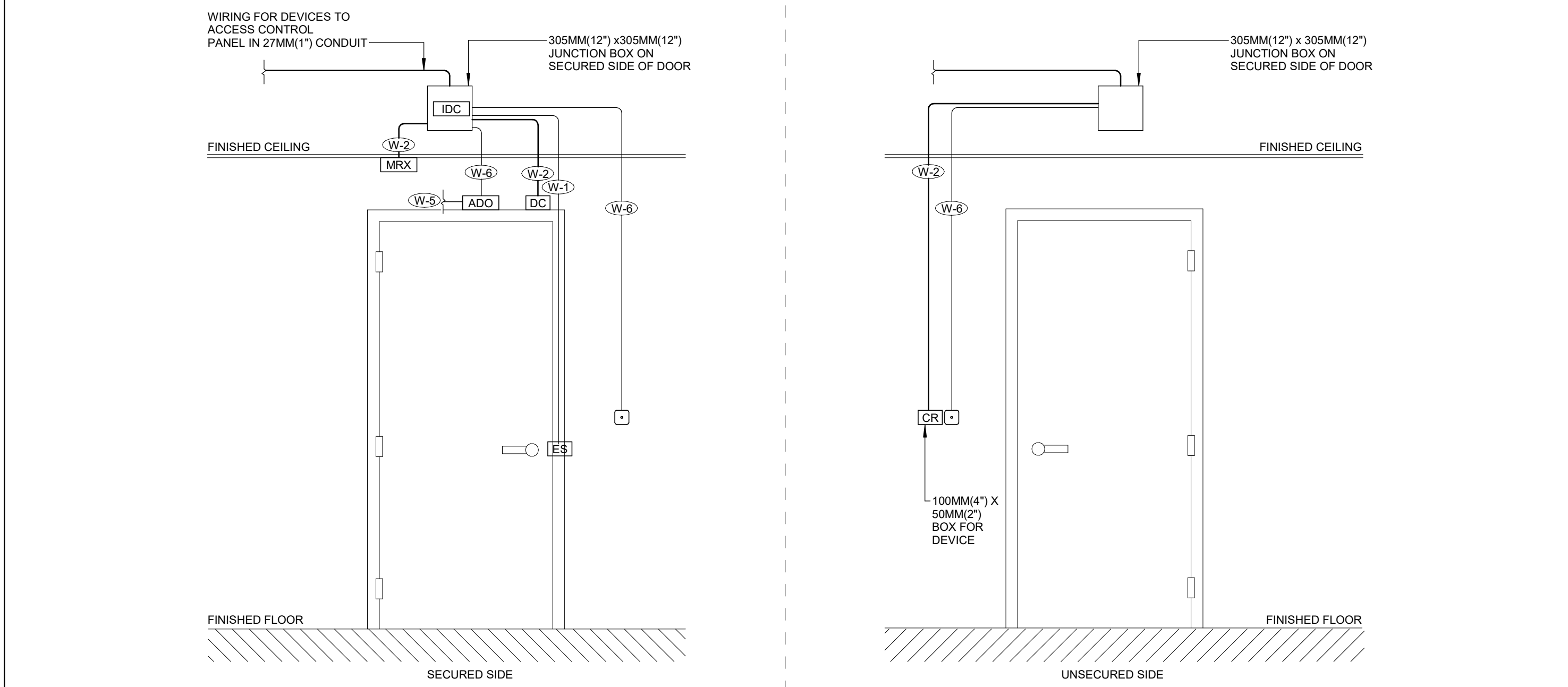
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|-----|------------|-----------------------|
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| 3 | 2024-12-04 | ISSUED FOR FAS REVIEW |
| 4 | 2024-12-23 | ISSUED FOR FAS REVIEW |
| 5 | 2025-01-24 | |

KEY PLAN:



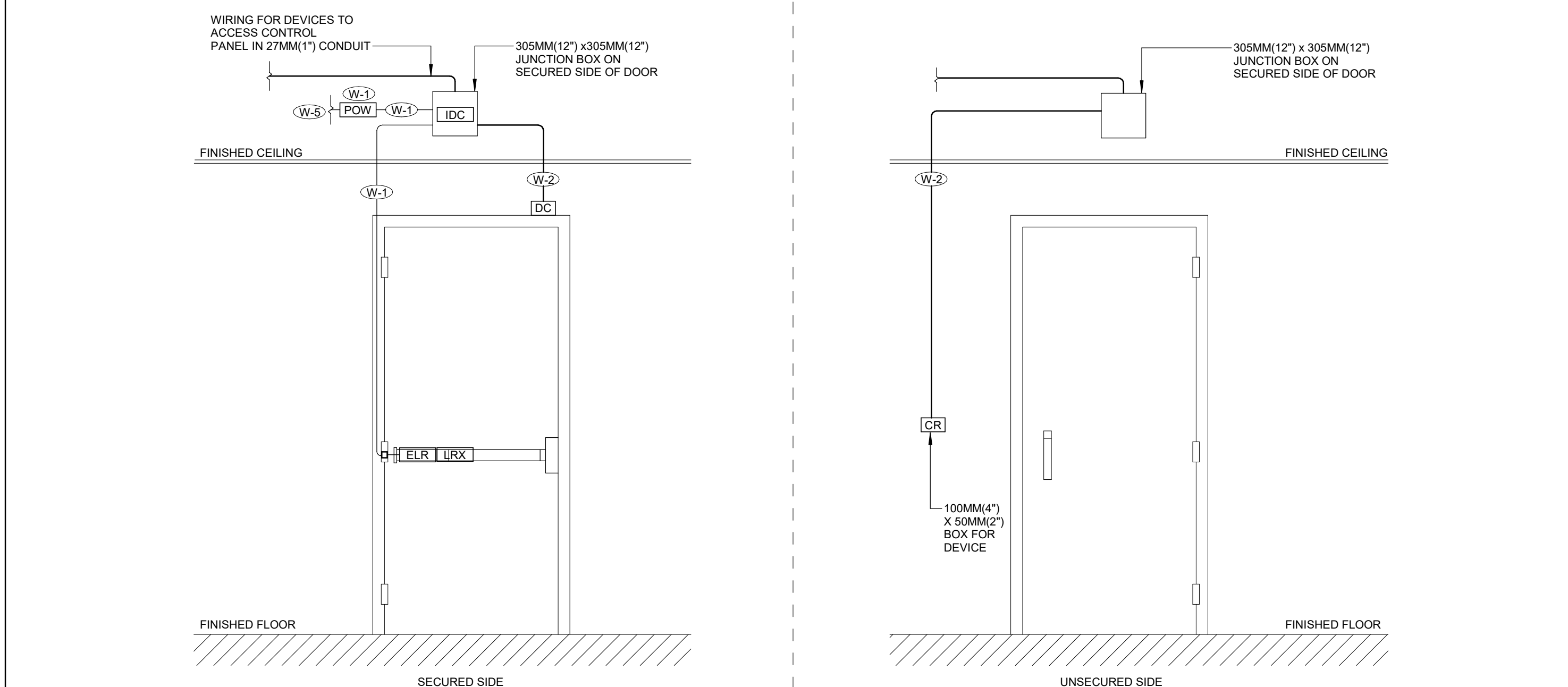
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| NO. | DATE |
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| 2 | 2024-11-15 |
| 3 | 2024-12-04 |
| 4 | 2024-12-23 |
| 5 | 2025-01-24 |
| 6 | 2025-01-31 |

| DESCRIPTION | |
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| ISSUED FOR 50% PERMIT | |
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| ISSUED FOR FAS REVIEW | |



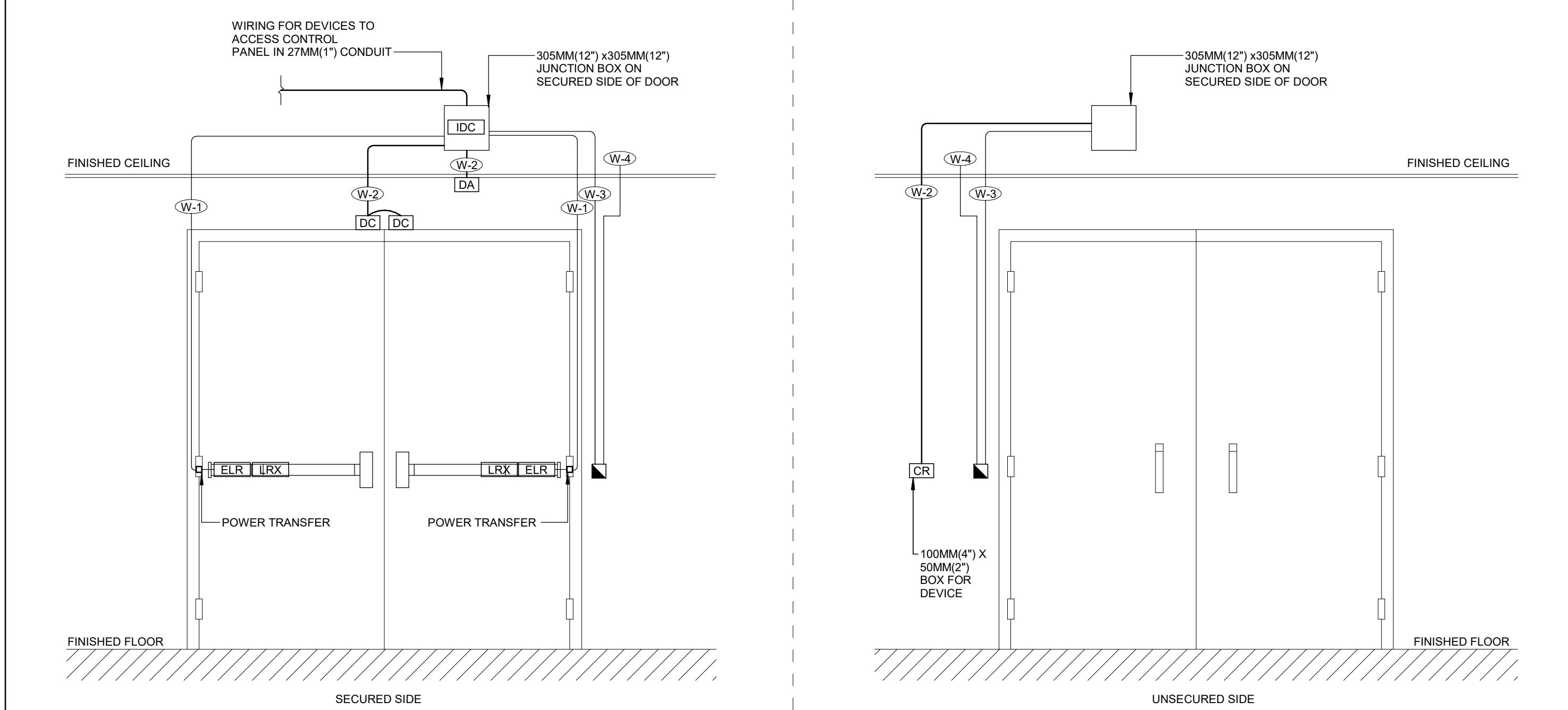
- GENERAL NOTES:
- REFER TO DOOR DETAIL NOTES FOR ADDITIONAL INFORMATION.
 - DOOR HANDLES SHOWN ARE DIAGRAMMATIC. REFER TO DOOR HARDWARE SCHEDULE FOR EXACT DOOR HANDLE TYPE.

4 DOOR DETAIL 7



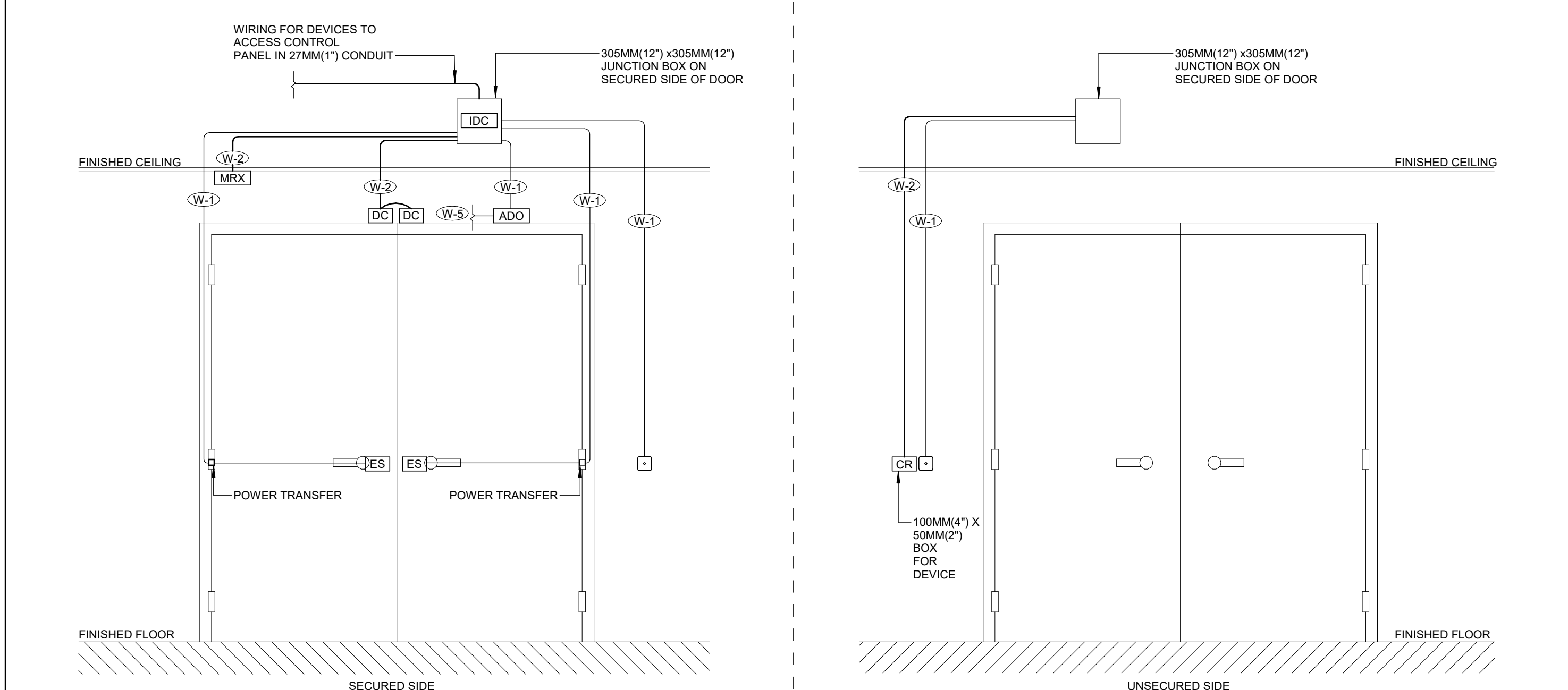
- GENERAL NOTES:
- REFER TO DOOR DETAIL NOTES FOR ADDITIONAL INFORMATION.
 - DOOR HANDLES SHOWN ARE DIAGRAMMATIC. REFER TO DOOR HARDWARE SCHEDULE FOR EXACT DOOR HANDLE TYPE.

1 DOOR DETAIL 4



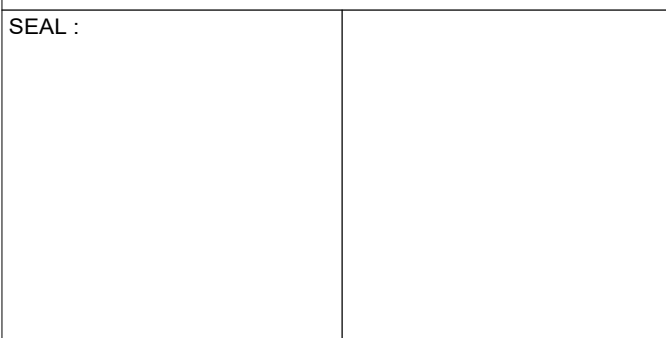
- GENERAL NOTES:
- REFER TO DOOR DETAIL NOTES FOR ADDITIONAL INFORMATION.
 - DOOR HANDLES SHOWN ARE DIAGRAMMATIC. REFER TO DOOR HARDWARE SCHEDULE FOR EXACT DOOR HANDLE TYPE.

2 SECURITY DOUBLE DOOR NON-IP PUSHBAR



- GENERAL NOTES:
- REFER TO DOOR DETAIL NOTES FOR ADDITIONAL INFORMATION.
 - DOOR HANDLES SHOWN ARE DIAGRAMMATIC. REFER TO DOOR HARDWARE SCHEDULE FOR EXACT DOOR HANDLE TYPE.

3 DOOR DETAIL 8



PROJECT:
HEALTH AND WELLNESS
CENTRE RENOVATION AT
KOFFLER

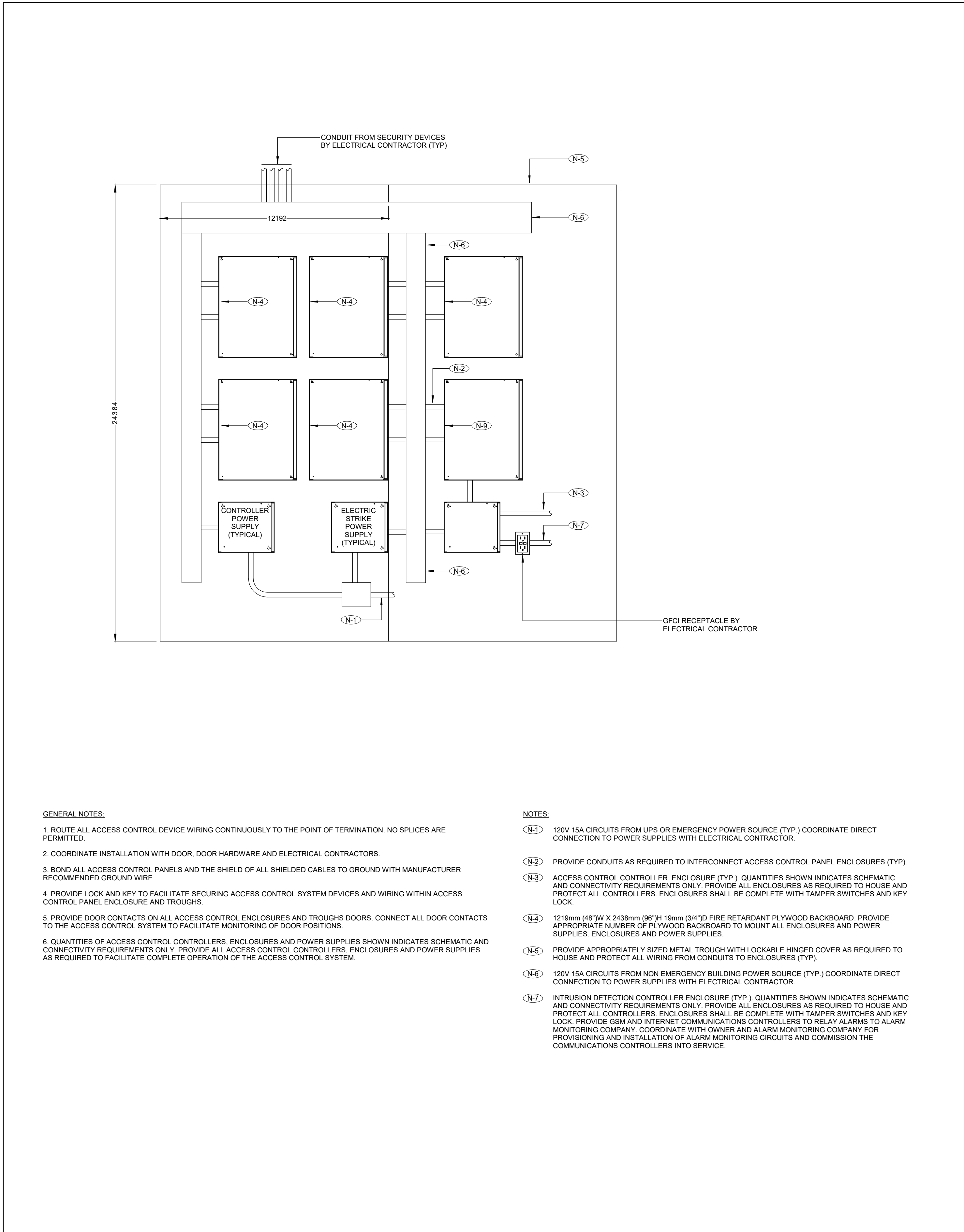
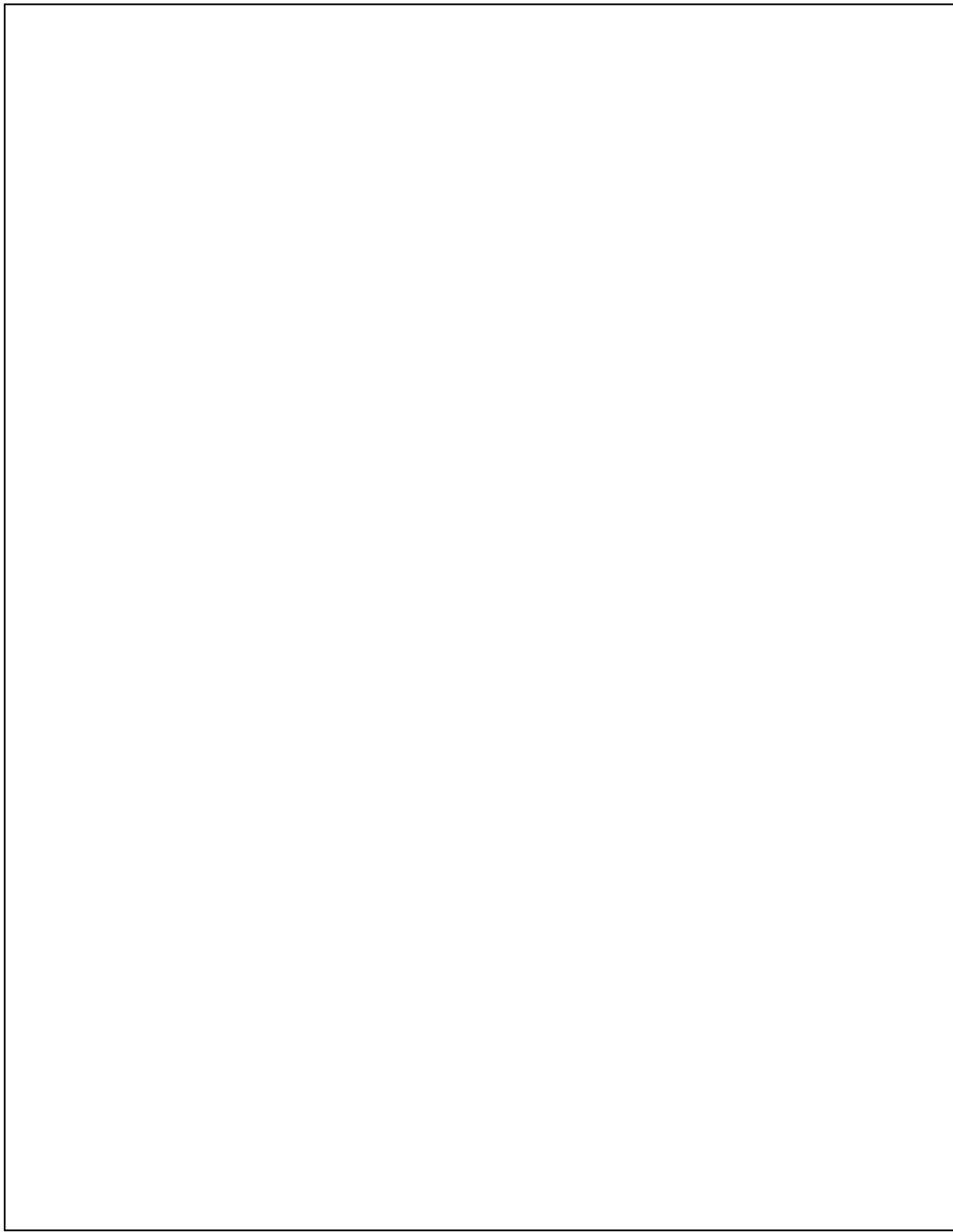
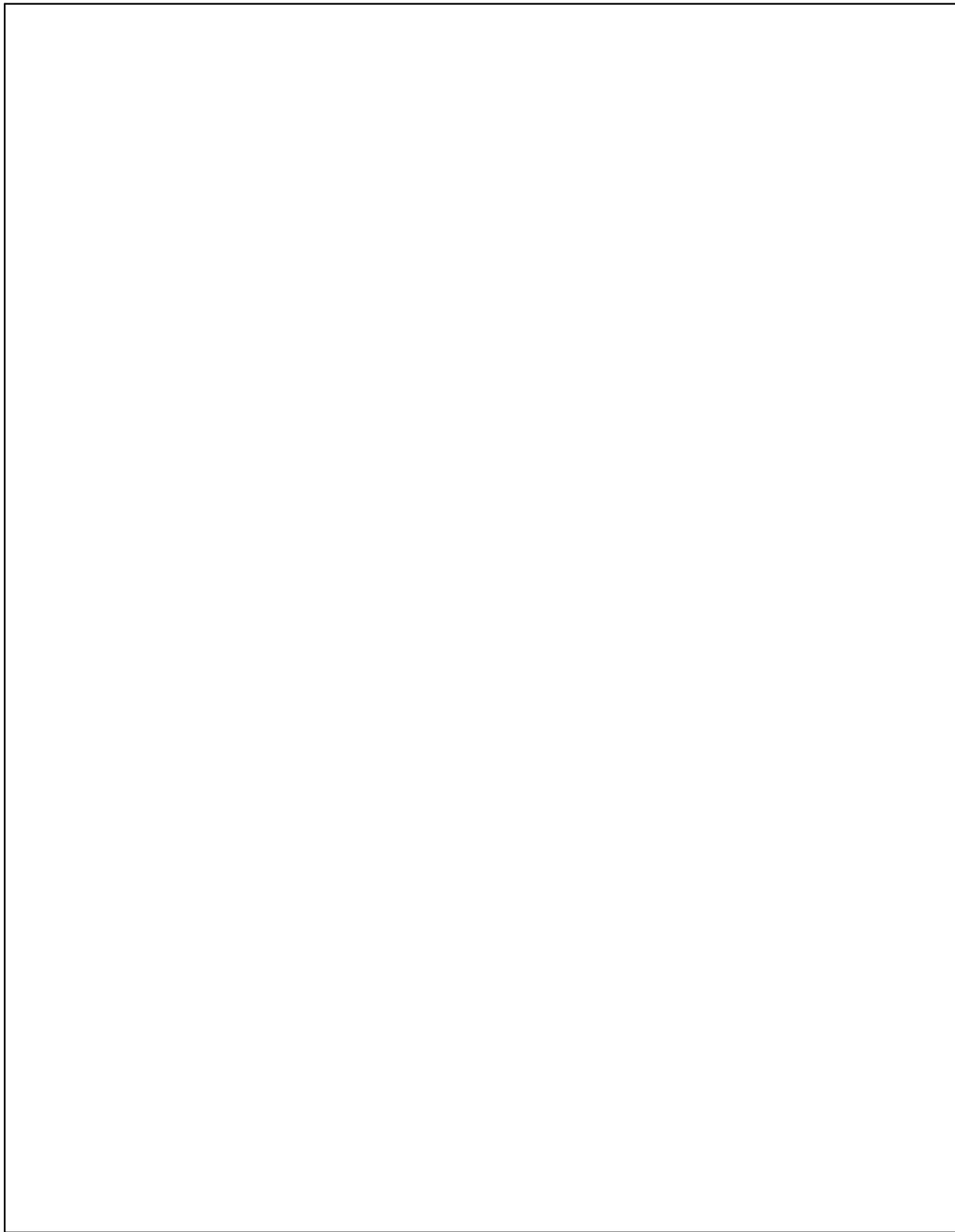
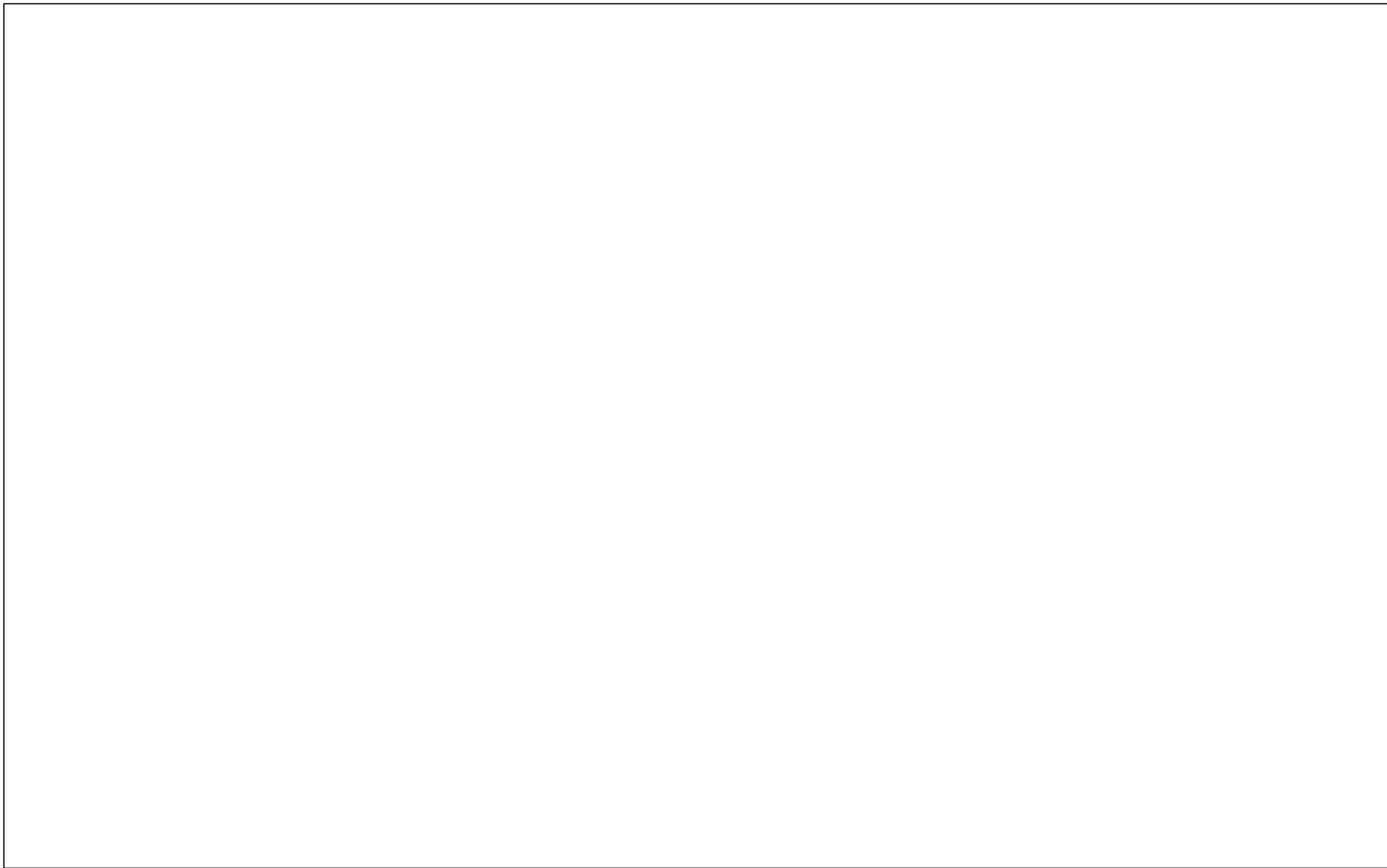
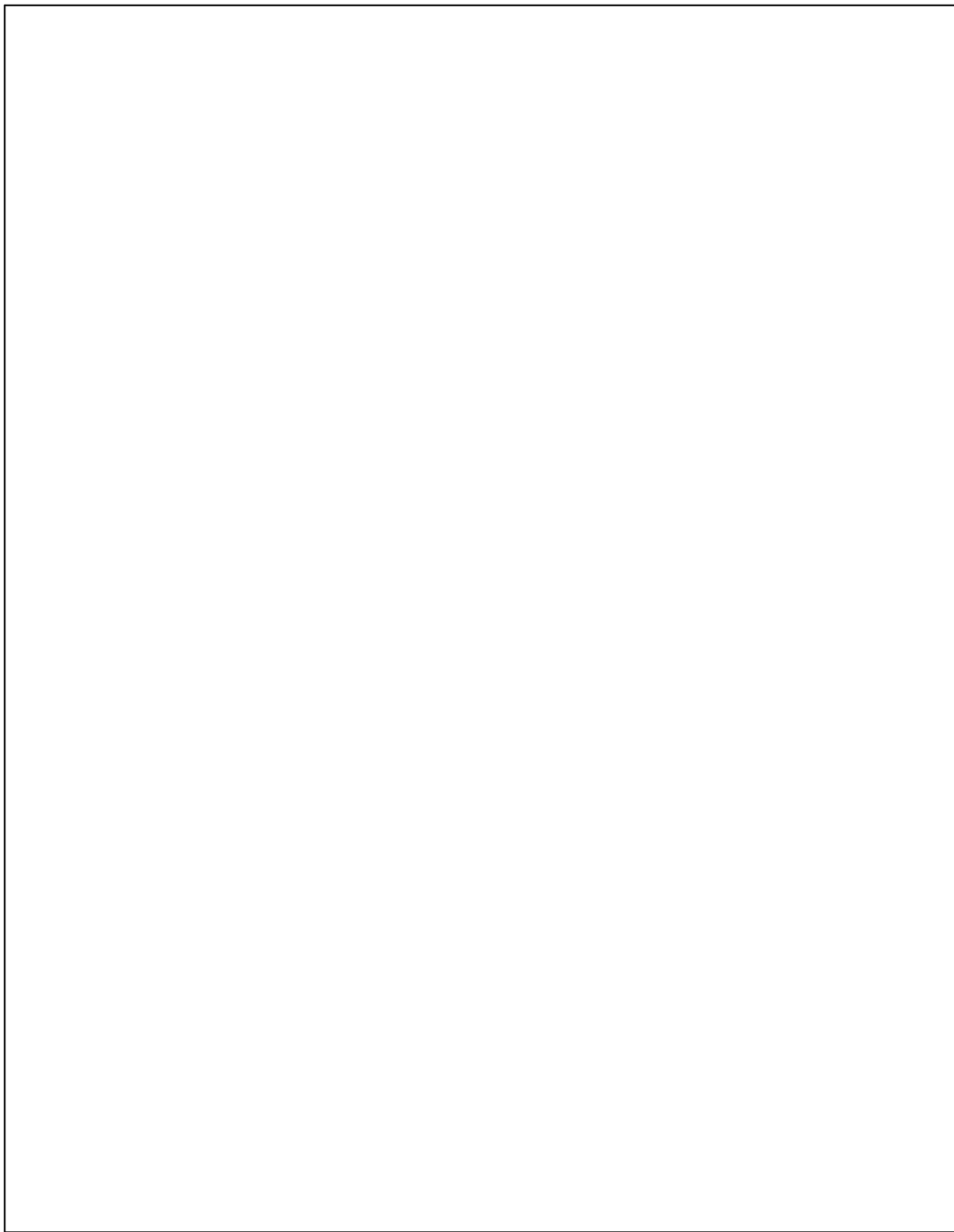
214 COLLEGE ST.
TORONTO, ON M5T 3A1

SHEET CONTENTS:
STANDARD DETAILS -
SECURITY

PROJECT NUMBER:
21590.003
DRAWING SCALE:

NTS.
DRAWN BY: CHECKED BY: DATE:
Author Checker Issue Date

SHEET NO.: REV:
E037 6



GENERAL NOTES:

1. ROUTE ALL ACCESS CONTROL DEVICE WIRING CONTINUOUSLY TO THE POINT OF TERMINATION. NO SPLICES ARE PERMITTED.
2. COORDINATE INSTALLATION WITH DOOR, DOOR HARDWARE AND ELECTRICAL CONTRACTORS.
3. BOND ALL ACCESS CONTROL PANELS AND THE SHIELD OF ALL SHIELDED CABLES TO GROUND WITH MANUFACTURER RECOMMENDED GROUND WIRE.
4. PROVIDE LOCK AND KEY TO FACILITATE SECURING ACCESS CONTROL SYSTEM DEVICES AND WIRING WITHIN ACCESS CONTROL PANEL ENCLOSURE AND TROUGHS.
5. PROVIDE DOOR CONTACTS ON ALL ACCESS CONTROL ENCLOSURES AND TROUGHS DOORS. CONNECT ALL DOOR CONTACTS TO THE ACCESS CONTROL SYSTEM TO FACILITATE MONITORING OF DOOR POSITIONS.
6. QUANTITIES OF ACCESS CONTROL CONTROLLERS, ENCLOSURES AND POWER SUPPLIES SHOWN INDICATES SCHEMATIC AND CONNECTIVITY REQUIREMENTS ONLY. PROVIDE ALL ACCESS CONTROL CONTROLLERS, ENCLOSURES AND POWER SUPPLIES AS REQUIRED TO FACILITATE COMPLETE OPERATION OF THE ACCESS CONTROL SYSTEM.

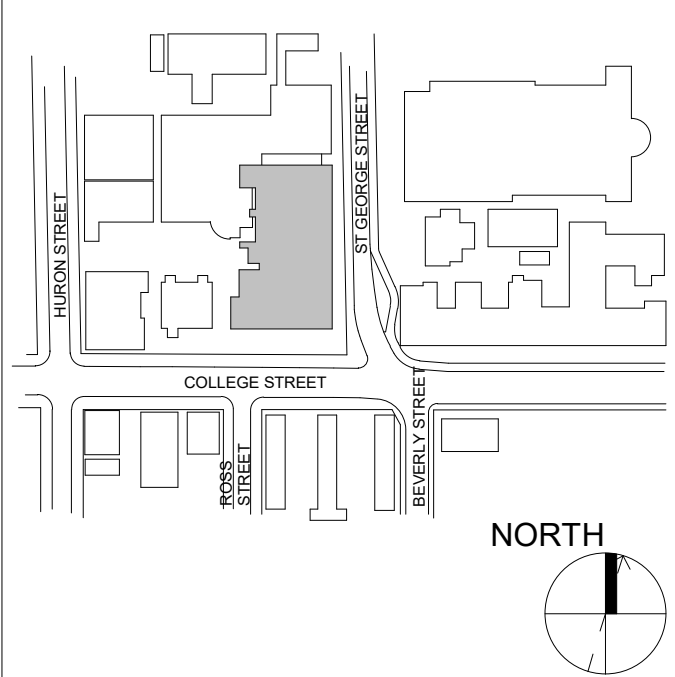
NOTES:

- (N-1) 120V 15A CIRCUITS FROM UPS OR EMERGENCY POWER SOURCE (TYP.) COORDINATE DIRECT CONNECTION TO POWER SUPPLIES WITH ELECTRICAL CONTRACTOR.
- (N-2) PROVIDE CONDUITS AS REQUIRED TO INTERCONNECT ACCESS CONTROL PANEL ENCLOSURES (TYP.)
- (N-3) ACCESS CONTROL CONTROLLER ENCLOSURE (TYP.). QUANTITIES SHOWN INDICATES SCHEMATIC AND CONNECTIVITY REQUIREMENTS ONLY. PROVIDE ALL ENCLOSURES AS REQUIRED TO HOUSE AND PROTECT ALL CONTROLLERS. ENCLOSURES SHALL BE COMPLETE WITH TAMPER SWITCHES AND KEY LOCK.
- (N-4) 1219MM (48 1/8") X 2438MM (96 3/8") (60") FIRE RETARDANT PLYWOOD BACKBOARD. PROVIDE APPROPRIATE NUMBER OF PLYWOOD BACKBOARD TO MOUNT ALL ENCLOSURES AND POWER SUPPLIES. ENCLOSURES AND POWER SUPPLIES.
- (N-5) PROVIDE APPROPRIATELY SIZED METAL TROUGH WITH LOCKABLE HINGED COVER AS REQUIRED TO HOUSE AND PROTECT ALL WIRING FROM CONDUITS TO ENCLOSURES (TYP.)
- (N-6) 120V 15A CIRCUITS FROM NON-EMERGENCY BUILDING POWER SOURCE (TYP.) COORDINATE DIRECT CONNECTION TO POWER SUPPLIES WITH ELECTRICAL CONTRACTOR.
- (N-7) INTRUSION DETECTION CONTROLLER ENCLOSURE (TYP.). QUANTITIES SHOWN INDICATES SCHEMATIC AND CONNECTIVITY REQUIREMENTS ONLY. PROVIDE ALL ENCLOSURES AS REQUIRED TO HOUSE AND PROTECT ALL CONTROLLERS. ENCLOSURES SHALL BE COMPLETE WITH TAMPER SWITCHES AND KEY LOCK. PROVIDE GSM AND INTERNET COMMUNICATIONS CONTROLLERS TO RELAY ALARMS TO ALARM MONITORING COMPANY. COORDINATE WITH OWNER AND ALARM MONITORING COMPANY FOR PROVISIONING AND INSTALLATION OF ALARM MONITORING CIRCUITS AND COMMISSION THE COMMUNICATIONS CONTROLLERS INTO SERVICE.

1 ACCESS CONTROL ENCLOSURE MOUNTING DETAILS



KEY PLAN:



REVISION

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| 6 | 2025-01-31 | ISSUED FOR BID |



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www.enformarchitects.com

SEAL:

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UNIVERSITY OF
TORONTO

PROJECT:
HEALTH AND WELLNESS
CENTRE RENOVATION AT
KOFFLER

214 COLLEGE ST.
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SHEET CONTENTS:
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NTS.

DRAWN BY: CHECKED BY: DATE: Issue Date

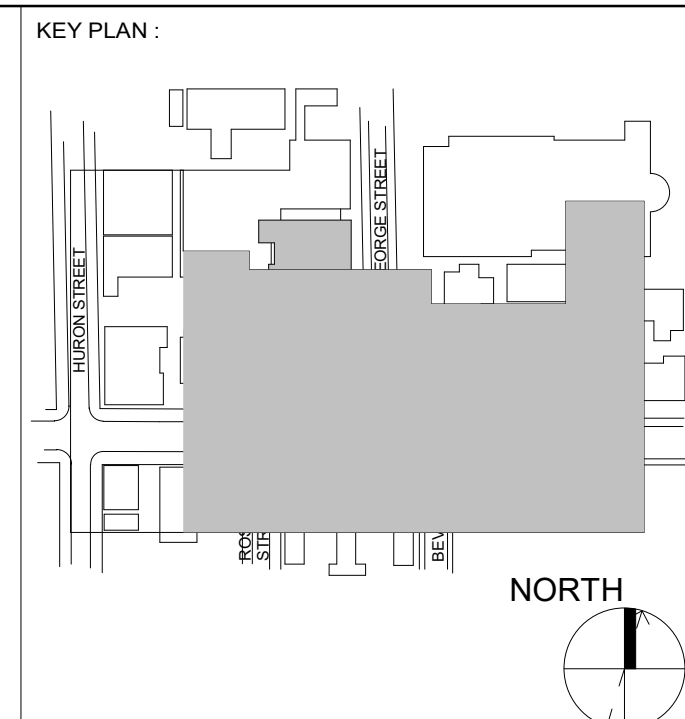
Author Checker

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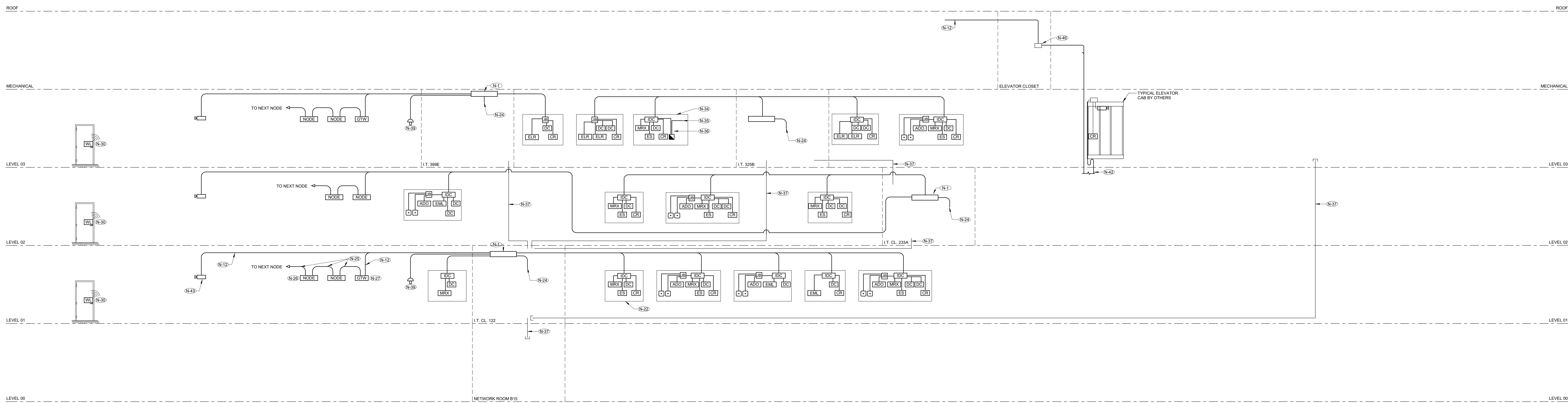
E038

REV:

6



| REVISION | | |
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| NO. | DATE | DESCRIPTION |
| 1 | 2024-10-04 | ISSUED FOR 50% |
| 2 | 2024-11-15 | PERMIT |
| 3 | 2024-12-04 | ISSUED FOR F&S REVIEW |
| 4 | 2024-12-23 | ISSUED FOR F&S REVIEW |
| 5 | 2025-01-24 | ISSUED FOR PEER REVIEW |
| 6 | 2025-01-31 | ISSUED FOR BID |

[illegible]

- DRAWING NOTES:**
- N-1 POWER OVER ETHERNET (POE) EDGE DATA SWITCH BY OWNER (TYP).
 - N-2 ETHERNET CORE DATA SWITCH BY OWNER.
 - N-3 DUPLEX FIBRE OPTIC PATCH PANEL BY COMMUNICATIONS CONTRACTOR (TYP).
 - N-4 AS PORT FIBRE OPTIC PATCH PANEL BY COMMUNICATIONS CONTRACTOR (TYP).
 - N-5 RACK MOUNT UNTERFLOORIBLE POWER SUPPLY (TYP).
 - N-6 5 STRAND MULTIMODE FIBRE OPTIC CABLE IN 27mm CONDUIT. FIBRE OPTIC CABLE BY COMMUNICATIONS CONTRACTOR AND CONDUIT BY ELECTRICAL CONTRACTOR.
 - N-7 AS PORT PATCH PANEL BY COMMUNICATIONS CONTRACTOR (TYP).
 - N-8 4 PAIR PATCH CABLE BY BY COMMUNICATIONS CONTRACTOR (TYP).
 - N-9 AS PORT FIBRE OPTIC PATCH PANEL BY COMMUNICATIONS CONTRACTOR (TYP).
 - N-10 4 PAIR CATEGORY 6 CABLE IN CONDUIT. CABLE BY COMMUNICATIONS CONTRACTOR AND CONDUIT BY ELECTRICAL CONTRACTOR (TYP).
 - N-11 CATEGORY 6 VOICE DATA OUTLETS BY COMMUNICATIONS CONTRACTOR (TYP).
 - N-12 4 PAIR CATEGORY 6 CABLE IN 27mm CONDUIT. CABLE BY COMMUNICATIONS CONTRACTOR AND CONDUIT BY ELECTRICAL CONTRACTOR. WHERE THE LENGTH OF 4 PAIR CATEGORY 6A CABLE BETWEEN A DEVICE AND ITS RESPECTIVE PATCH PANEL IS EXCEED 100 METERS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL PATCH PANELS TO FACILITATE ETHERNET AND ROSETRON[®] CONNECTIVITY BETWEEN THE RESPECTIVE POE DATA SWITCH AND RESPECTIVE PATCH PANEL. TO EXTEND THE LENGTH OF THE CABLE BETWEEN THE DATA SWITCH OR PATCH PANEL FROM A POWER SUPPLY THAT IS LOCATED WITHIN THE ROOM THAT HOUSE THE RESPECTIVE DATA SWITCH.
 - N-13 DEVICE CABLEING IN 27mm CONDUIT. WIRING BY SECURITY CONTRACTOR AND CONDUIT BY ELECTRICAL CONTRACTOR (TYP).
 - N-14 PHYSICAL INTRUSION DETECTION DEVICES. DEVICES SHOWN INDICATES GENERAL CONNECTION REQUIREMENTS ONLY. REFER TO FLOOR PLANS FOR EXACT QUANTITY AND TYPES OF DEVICES (TYP).
- NOTED:**
- N-15 PROVIDE CONNECTION IN 21MM CONDUIT AND INTEGRATE THE INTRUSION DETECTION SYSTEM WITH THE ACCESS

- N17 INTERCOM DEVICE. REFER TO FLOOR PLANS FOR EXACT QUANTITY AND TYPES OF DEVICES (TYP).
- N18 DISCRETE ALARM/PANIC. REFER TO FLOOR PLANS FOR EXACT QUANTITY OF DEVICES (TYP).
- N19 NOT USED.
- N20 NOT USED.
- N21 NOT USED.
- N22 TYPICAL SECURED DOOR. DEVICES SHOWN INDICATES GENERAL CONNECTIVITY REQUIREMENTS ONLY. REFER TO FLOOR PLANS FOR EXACT QUANTITY AND TYPES OF DEVICES AT EACH DOOR. REFER TO DOOR ELEVATION DRAWINGS FOR DEVICES AND CONDUIT REQUIREMENTS AT SECURED DOORS. COORDINATE DOOR DEVICES WITH DOOR HARDWARE SCHEDULE AND DOOR HARDWARE CONTRACTOR(TYP).
- N23 TYPICAL RF READER DEVICES SHOWN INDICATES GENERAL CONNECTIVITY REQUIREMENTS ONLY. REFER TO FLOOR PLANS FOR EXACT QUANTITY AND TYPES OF DEVICES (TYP).
- N24 CONNECTED TO EXISTING ACCESS CONTROL SERVER.
- N25 SYSTEM MANUFACTURER RECOMMENDED WIRING IN 2"IMD CONDUIT. WIRING BY SECURITY CONTRACTOR AND CONDUIT BY ELECTRICAL CONTRACTOR.
- N26 TYPICAL ACCESS NODE. DEVICES SHOWN INDICATES GENERAL CONNECTIVITY REQUIREMENTS ONLY. REFER TO FLOOR PLANS FOR EXACT QUANTITY AND TYPES OF DEVICES (TYP). BY SECURITY CONTRACTOR.
- N27 TYPICAL GATEWAY DEVICES SHOWN INDICATES GENERAL CONNECTIVITY REQUIREMENTS ONLY. REFER TO FLOOR PLANS FOR EXACT QUANTITY AND TYPES OF DEVICES (TYP). BY SECURITY CONTRACTOR.
- N28 TYPICAL WIRELESS LOCK. DEVICES SHOWN INDICATES GENERAL CONNECTIVITY REQUIREMENTS ONLY. REFER TO FLOOR PLANS FOR EXACT QUANTITY AND TYPES OF DEVICES (TYP).
- N29 NOT USED.
- N30 TYPICAL ONLINE WIRELESS LOCK. DEVICES SHOWN INDICATES GENERAL CONNECTIVITY REQUIREMENTS ONLY. REFER TO FLOOR PLANS FOR EXACT QUANTITY AND TYPES OF DEVICES (TYP).
- N31 NOT USED.

- [illegible]

- GENERAL NOTES:**
1. PROVIDE ALL ITEMS SHOWN UNLESS OTHERWISE NOTED
 2. LOCATIONS OF DEVICES SHOWN ARE APPROXIMATE. COORDINATE THE EXACT LOCATION OF EACH DEVICE ON SITE WITH OWNER REPRESENTATIVE.
 3. QUANTITIES OF DEVICES SHOWN ARE FOR DIAGRAMMATIC PURPOSES AND TO INDICATE INTER-AREA SYSTEM CONNECTION AND INTERSYSTEM CONNECTIVITY.
 4. COORDINATE THE INSTALLATION AND INTERFACING WITH ALL ELECTRIFIED LOCKS AND DOOR CONTACTS WITH THE DOOR HARDWARE CONTRACTOR.
 5. COORDINATE THE INSTALLATION AND INTERFACING WITH ALL POWER CIRCUITS WITH THE ELECTRICAL CONTRACTOR.
 6. COORDINATE EXACT MOUNTING HEIGHTS AND LOCATIONS OF VIDEO SURVEILLANCE CAMERAS ON SITE WITH ELECTRICAL CONTRACTOR. PROVIDE ALL MOUNTING BRACKETS TO ENSURE THAT ALL OBSTRUCTIONS ARE AVOIDED AND THAT THE FIELD OF VIEW OF EACH CAMERA IS ATTAINED. FOR PENDANT MOUNTED CAMERAS, THE LENGTH OF EACH PENDANT MOUNT IS CUSTOMIZED TO MAINTAIN BUILDING CODE CLEARANCE REQUIREMENTS WHILE ACHIEVING MAXIMUM FIELD OF VIEW.
 7. ALL CABLES SHALL BE HOME RUN IN CONDUITS. CABLES SHALL NOT BE CONCEALED. WHERE CABLES ARE CONCEALED, THE CONCEALMENT SHALL BE IN ACCORD WITH THE CITY OF LOS ANGELES ELECTRICAL CODE.
 8. REVIEW ALL PROJECT RELATED ARCHITECTURAL, MECHANICAL, ELECTRICAL, COMMUNICATIONS AND AIR DRAWINGS AND SPECIFICATIONS, DISCUSS AND COORDINATE ALL OVERLAPPING WORK WITH SECURITY SYSTEMS TO AVOID CONFLICTS.
 9. DEVICES SHALL NOT BE INSTALLED IN WALL AREAS THAT ARE DESIGNATED TO HAVE MARKER BOARD, FABRIC PANELS OR ACCENT FINISHES/DETAILS UNLESS INDICATED SPECIFICALLY ON AN ELEVATED DRAWING.
 10. DEVICES SHALL NOT BE INSTALLED ABOVE ANY FURNITURE - AND SHALL BE LOCATED WHERE THERE IS ADEQUATE ACCESS FOR USE. UNLESS OTHERWISE NOTED, ALL DEVICES SHALL BE INSTALLED AT 5'0" TO 5'6" FROM THE FLOOR.
 11. INFORM THE ENGINEER'S REPRESENTATIVE AND GC OF ALL DEVICE AND FURNITURE CONFLICTS PRIOR TO INSTALLATION. OBTAIN RESOLUTION TO DISCUSS AND COORDINATE ALL OVERLAPPING WORK WITH SECURITY SYSTEMS TO AVOID CONFLICTS.

SEAL :

OWNER:

 UNIVERSITY OF
TORONTO

PROJECT:
HEALTH AND WELLNESS
CENTRE RENOVATION AT
KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

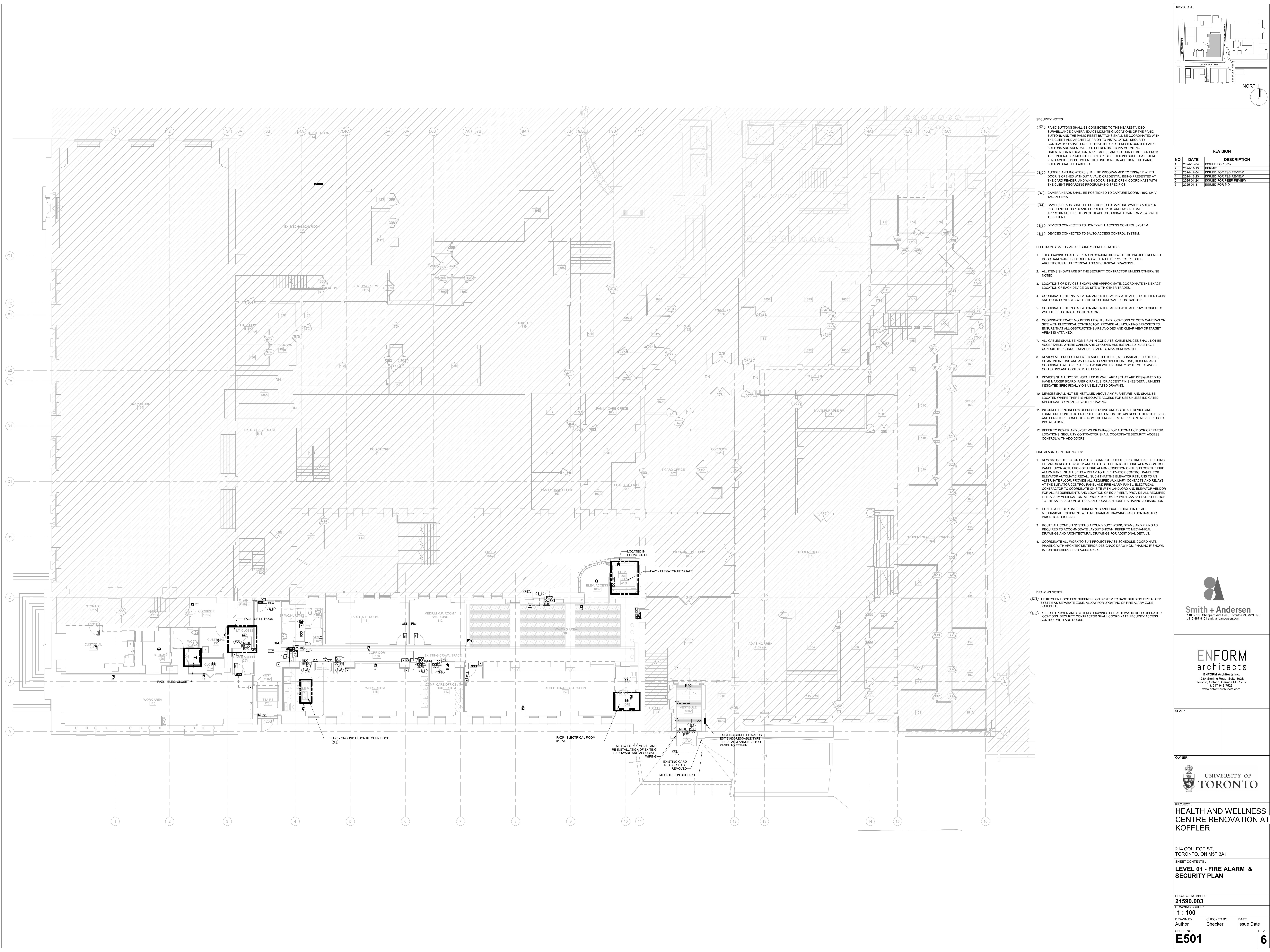
SHEET CONTENTS :

SECURITY RISER DIAGRAM

PROJECT NUMBER :
21500-002

DRAWING SCALE :
NTS.

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| DRAWN BY : Author | CHECKED BY : Checker | DATE: Issue Date |
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- SECURITY NOTES:
- (S-1) PANIC BUTTONS SHALL BE CONNECTED TO THE NEAREST VIDEO SURVEILLANCE CAMERA. EXACT MOUNTING LOCATIONS OF THE PANIC BUTTONS AND THE PANIC RESET BUTTONS SHALL BE COORDINATED WITH THE CLIENT AND ARCHITECT PRIOR TO INSTALLATION. SECURITY CONTRACTOR SHALL INSURE THAT THE UNDER-DESK MOUNTED PANIC BUTTONS ARE ADEQUATELY DIFFERENTIATED VIA MOUNTING ORIENTATION & LOCATION, MAKE/MODEL AND COLOUR OF BUTTON FROM THE UNDER-DESK MOUNTED PANIC RESET BUTTONS SUCH THAT THERE IS NO AMBIGUITY BETWEEN THE FUNCTIONS. IN ADDITION, THE PANIC BUTTON SHALL BE LABELED.
 - (S-2) AUDIBLE ANNUNCIATORS SHALL BE PROGRAMMED TO TRIGGER WHEN DOOR IS OPENED WITHOUT A VALID CREDENTIAL BEING PRESENTED AT THE CARD READER, AND WHEN DOOR IS HELD OPEN. COORDINATE WITH THE CLIENT REGARDING PROGRAMMING SPECIFICS.
 - (S-3) CAMERA HEADS SHALL BE POSITIONED TO CAPTURE DOORS 115K, 124 V, 125 AND 124S.
 - (S-4) CAMERA HEADS SHALL BE POSITIONED TO CAPTURE WAITING AREA 106 INCLUDING DOOR 106 AND CORRIDOR 115K. ARROWS INDICATE APPROXIMATE DIRECTION OF HEADS. COORDINATE CAMERA VIEWS WITH THE CLIENT.
 - (S-5) DEVICES CONNECTED TO HONEYWELL ACCESS CONTROL SYSTEM.
 - (S-6) DEVICES CONNECTED TO SALTO ACCESS CONTROL SYSTEM.

- ELECTRONIC SAFETY AND SECURITY GENERAL NOTES:
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE PROJECT RELATED DOOR HARDWARE SCHEDULE AS WELL AS THE PROJECT RELATED ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS.
 - ALL ITEMS SHOWN ARE BY THE SECURITY CONTRACTOR UNLESS OTHERWISE NOTED.
 - LOCATIONS OF DEVICES SHOWN ARE APPROXIMATE. COORDINATE THE EXACT LOCATION OF EACH DEVICE ON SITE WITH OTHER TRADES.
 - COORDINATE THE INSTALLATION AND INTERFACING WITH ALL ELECTRIFIED LOCKS AND DOOR CONTACTS WITH THE DOOR HARDWARE CONTRACTOR.
 - COORDINATE THE INSTALLATION AND INTERFACING WITH ALL POWER CIRCUITS WITH THE ELECTRICAL CONTRACTOR.
 - COORDINATE EXACT MOUNTING HEIGHTS AND LOCATIONS OF CCTV CAMERAS ON SITE WITH ELECTRICAL CONTRACTOR. PROVIDE ALL MOUNTING BRACKETS TO ENSURE THAT ALL OBSTRUCTIONS ARE AVOIDED AND CLEAR VIEW OF TARGET AREAS IS ATTAINED.
 - ALL CABLES SHALL BE HOME RUN IN CONDUITS. CABLE SPLICES SHALL NOT BE ACCEPTABLE. WHERE CABLES ARE GROUPED AND INSTALLED IN A SINGLE CONDUIT THE CONDUIT SHALL BE SIZED TO MAXIMUM 40% FULL.
 - REVIEW ALL PROJECT RELATED ARCHITECTURAL, MECHANICAL, ELECTRICAL, COMMUNICATIONS AND AV DRAWINGS AND SPECIFICATIONS. DESIGNER AND COORDINATE ALL OVERLAPPING WORK WITH SECURITY SYSTEMS TO AVOID COLLISIONS AND CONFLICTS OF DEVICES.
 - DEVICES SHALL NOT BE INSTALLED IN WALL AREAS THAT ARE DESIGNATED TO HAVE MARKER BOARD, FABRIC PANELS, OR ACCENT FINISHEDS UNLESS INDICATED SPECIFICALLY ON AN ELEVATED DRAWING.
 - DEVICES SHALL NOT BE INSTALLED ABOVE ANY FURNITURE AND SHALL BE LOCATED WHERE THERE IS ADEQUATE ACCESS FOR USE UNLESS INDICATED SPECIFICALLY ON AN ELEVATED DRAWING.
 - INFORM THE ENGINEER'S REPRESENTATIVE AND QC OF ALL DEVICE AND FURNITURE CONFLICTS PRIOR TO INSTALLATION. OBTAIN RESOLUTION TO DEVICE AND FURNITURE CONFLICTS FROM THE ENGINEER'S REPRESENTATIVE PRIOR TO INSTALLATION.
 - REFER TO POWER AND SYSTEMS DRAWINGS FOR AUTOMATIC DOOR OPERATOR LOCATIONS. SECURITY CONTRACTOR SHALL COORDINATE SECURITY ACCESS CONTROL WITH ADD DOORS.
- FIRE ALARM GENERAL NOTES:
- NEW SMOKE DETECTOR SHALL BE CONNECTED TO THE EXISTING BASE BUILDING ELEVATOR RECALL SYSTEM AND SHALL BE TIED INTO THE FIRE ALARM CONTROL PANEL. UPON ACTUATION OF A FIRE ALARM CONDITION ON THIS FLOOR THE FIRE ALARM PANEL SHALL SEND A RELAY TO THE ELEVATOR CONTROL PANEL FOR ELEVATOR AUTOMATIC RECALL SUCH THAT THE ELEVATOR RETURNING TO AN ALTERNATE FLOOR. PROVIDE ALL REQUIRED AUXILIARY CONTACTS AND RELAYS AT THE ELEVATOR CONTROL PANEL AND FIRE ALARM PANEL. ELECTRICAL CONTRACTOR TO COORDINATE ON SITE WITH LANDLORDS AND ELEVATOR VENDOR FOR ALL REQUIREMENTS AND LOCATION OF EQUIPMENT. PROVIDE ALL REQUIRED FIRE ALARM VERIFICATION. ALL WORK TO COMPLY WITH CSA 844 LATEST EDITION TO THE SATISFACTION OF TSSA AND LOCAL AUTHORITIES HAVING JURISDICTION.
 - CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND CONTRACTOR PRIOR TO ROUTING.
 - ROUTE ALL CONDUIT SYSTEMS AROUND DUCT WORK, BEAMS AND PIPING AS REQUIRED TO ACCOMMODATE LAYOUT SHOWN. REFER TO MECHANICAL DRAWINGS AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS.
 - COORDINATE ALL WORK TO SUIT PROJECT PHASE SCHEDULE. COORDINATE PHASING WITH ARCHITECT/INTERIOR DESIGN/CC DRAWINGS. PHASING IF SHOWN IS FOR REFERENCE PURPOSES ONLY.

- DRAWINGS NOTES:
- (S-1) THE KITCHEN HOOD FIRE SUPPRESSION SYSTEM TO BASE BUILDING FIRE ALARM SYSTEM AS SEPARATE ZONE. ALLOW FOR UPDATING OF FIRE ALARM ZONE SCHEDULE.
 - (S-2) REFER TO POWER AND SYSTEMS DRAWINGS FOR AUTOMATIC DOOR OPERATOR LOCATIONS. SECURITY CONTRACTOR SHALL COORDINATE SECURITY ACCESS CONTROL WITH ADD DOORS.

KEY PLAN:

NORTH

| REVISION | |
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| NO. | DATE |
| 1 | 2024-01-24 |
| 2 | 2024-11-15 |
| 3 | 2024-12-24 |
| 4 | 2024-12-23 |
| 5 | 2025-01-24 |
| 6 | 2025-01-31 |

OWNER:

UNIVERSITY OF TORONTO

PROJECT:

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST.
TORONTO, ON M5T 3A1

SHEET CONTENTS:

LEVEL 01 - FIRE ALARM & SECURITY PLAN

PROJECT NUMBER:
21590.003

DRAWING SCALE:
1 : 100

DRAWN BY:
Author

CHECKED BY:
Checker

DATE:
Issue Date

REV:
6

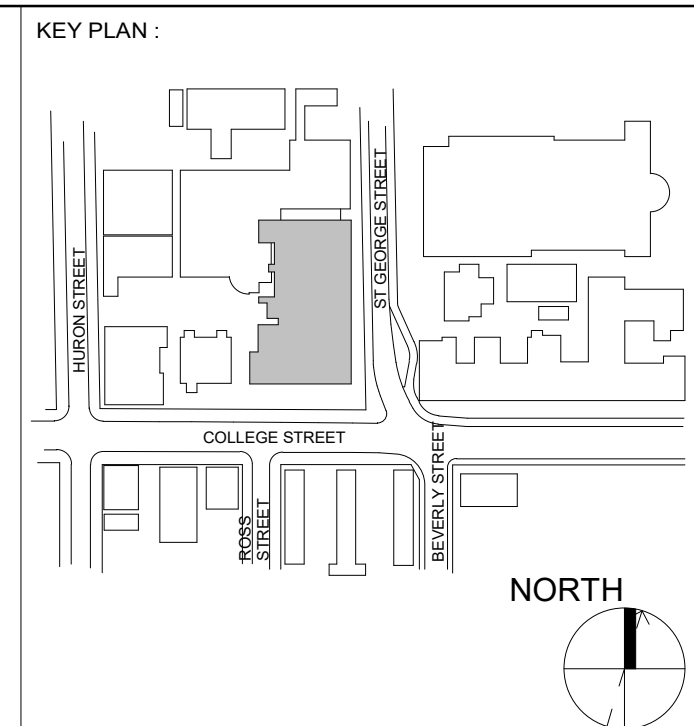
SEAL:

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ENFORM architects

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Toronto, Ontario, Canada M8R 2B7
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SECURITY NOTES:

- ⑤-1 DEVICES CONNECTED TO HONEYWELL ACCESS CONTROL SYSTEM
- ⑤-2 DEVICES CONNECTED TO SALTO ACCESS CONTROL SYSTEM.

ELECTRONIC SAFETY AND SECURITY GENERAL NOTES:

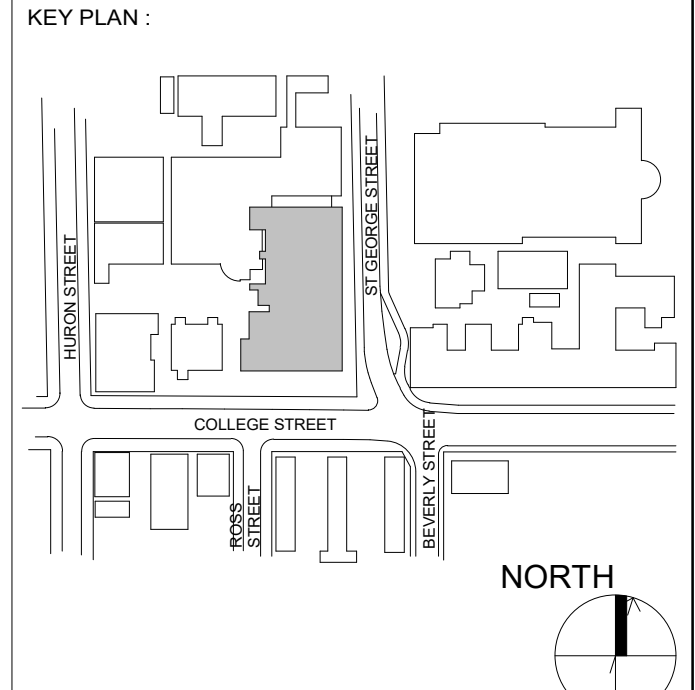
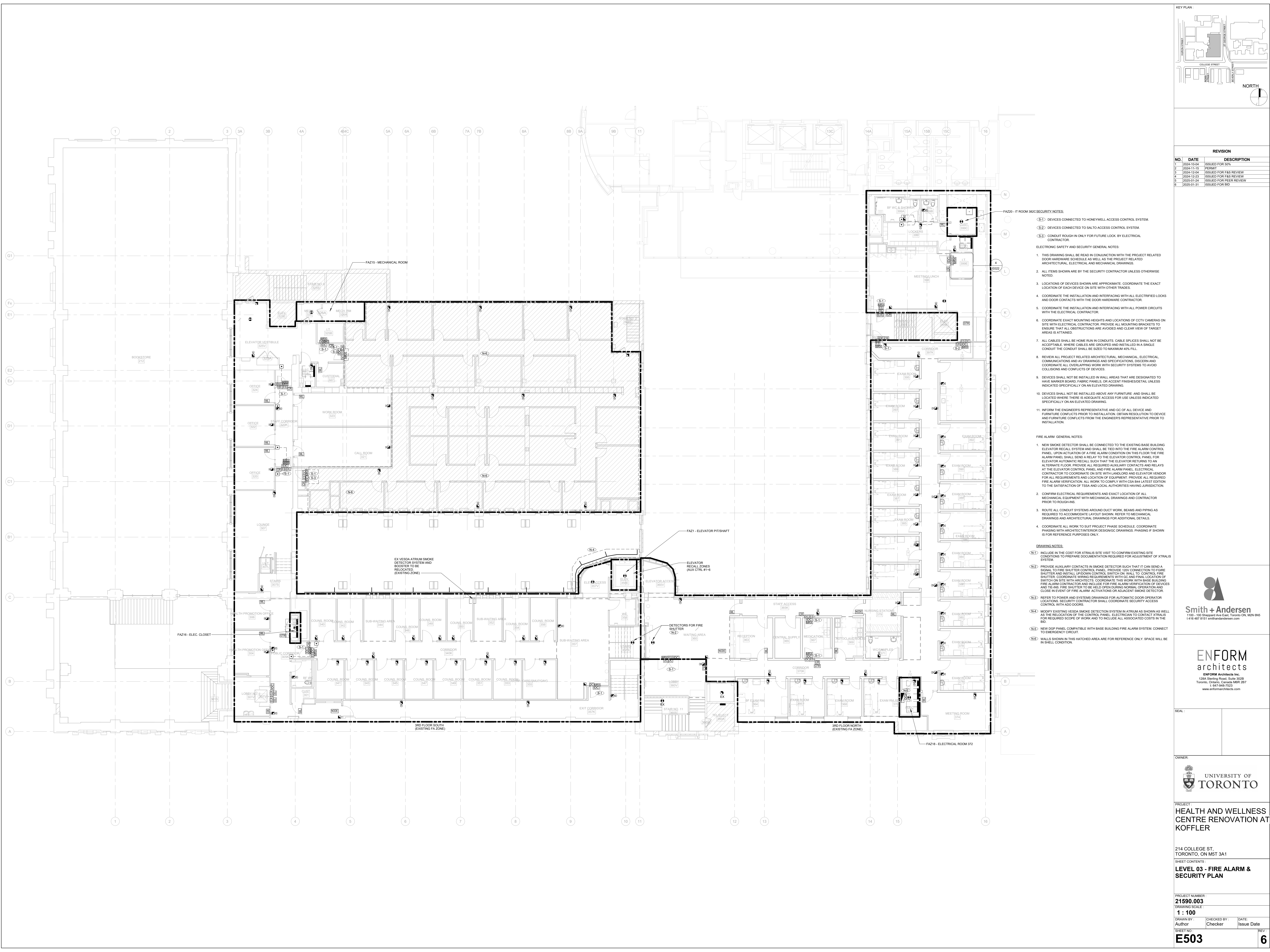
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE PROJECT RELATED DRAWING HCHEDULE SCHEDULE AS WELL AS THE PROJECT RELATED ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING CONTRACTS.
2. ALL ITEMS SHOWN ARE BY THE SECURITY CONTRACTOR UNLESS OTHERWISE NOTED.
3. LOCATIONS OF DEVICES SHOWN ARE APPROXIMATE. COORDINATE THE EXACT LOCATION OF EACH DEVICE ON SITE WITH OTHER TRADES.
4. COORDINATE THE INSTALLATION AND INTERFACING WITH ALL ELECTRIFIED LOCKS AND DOOR CLOSURE DEVICES AND MECHANICAL CONTRACTOR.
5. COORDINATE THE INSTALLATION AND INTERFACING WITH ALL POWER CLOCKS WITH THE ELECTRICAL CONTRACTOR.
6. COORDINATE EXACT MOUNTING HEIGHTS AND LOCATIONS OF CCTV CAMERAS ON SITE WITH ELECTRICAL CONTRACTOR. PROVIDE ALL MOUNTING BRACKETS TO SECURELY HOLD ALL DEVICES. ALL OBSTRUCTIONS ARE AVOIDED AND CLEAR VIEWING OF TARGET AREAS IS ATTAINED.
7. ALL CABLES SHALL BE HOME RUN IN CONDUIT. CABLE SPIRES SHALL NOT BE USED. ALL CABLES SHALL BE EASILY ACCESSIBLE AND REMOVABLE IN A SINGLE CONDUIT THE CONDUIT SHALL BE SIZED TO MAXIMUM 40% FULL.
8. REVIEW ALL PROJECT RELATED ARCHITECTURAL, MECHANICAL, ELECTRICAL, COMMUNICATIONS AND AV DRAWINGS AND SPECIFICATIONS, DISCUSS AND CONFIRM THAT ALL OVERLAPPING WORK WITH SECURITY SYSTEMS TO AVOID COLLISIONS AND CONFLICTS OF DEVICES.
9. DEVICES SHALL NOT BE INSTALLED IN WALL AREAS THAT ARE DESIGNATED TO HAVE MARKER BOARD, FIBER PANELS OR ANY FURNITURE/CASED UNLESS OTHERWISE NOTED.
10. DEVICES SHALL NOT BE INSTALLED ABOVE AN FURNITURE; AND SHALL BE LOCATED WHERE THERE IS ADEQUATE ACCESS FOR USE UNLESS SPECIFIED OTHERWISE ON DRAWING.
11. REVIEW THE ENGINEER'S REPRESENTATIVE AND GC/CLP ALL DEVICE AND FURNITURE CONFLICTS PRIOR TO INSTALLATION. OBTAIN RESOLUTION TO DEVICE AND FURNITURE CONFLICTS FROM THE ENGINEER'S REPRESENTATIVE PRIOR TO INSTALLATION.

FIRE ALARM GENERAL NOTES:

1. NEW SMOKE DETECTOR SHALL BE CONNECTED TO THE EXISTING BASE BUILDING ELECTRIC DETECTOR SYSTEM AND SHALL BE TIED INTO THE FIRE ALARM CONTROL PANEL. UPON ACTIVATION OF A FIRE ALARM CONDITION ON THIS FLOOR THE FIRE ALARM SHALL SOUND AND A MESSAGE SHALL BE TRANSMITTED TO THE FIRE ALARM AUTOMATIC RELAY SUCH THAT THE RETURNER RETURNS TO AN ALTERNATE FLOOR. PROVIDE ALL REQUIRED ULTIMATE WIRING CONTACTS AND RELAYS AT THE DETECTOR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTRACTOR TO COORDINATE ON SITE WITH HANDILOF AND ELEVATOR VENDOR FOR ALL REQUIREMENTS AND LOCATION OF EQUIPMENT. PROVIDE ALL REQUIRED WIRING AND CONNECTIONS TO THE DETECTOR AND RELAY. THE CONTRACTOR SHALL BE RESPONSIBLE TO THE SATISFACTION OF TSSA AND LOCAL AUTHORITIES HAVE JURISDICTION.
2. CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND CONTRACTOR PRIOR TO ROUGHINS.
3. ROUTE ALL CONDUIT SYSTEMS AROUND DUCT WORK, BEAMS AND PIPING AS REQUIRED TO ACCOMMODATE LAYOUT SHOWN. REFER TO MECHANICAL DRAWINGS AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS.
4. COORDINATE ALL WORK TO SUIT PROJECT PHASE SCHEDULE. COORDINATE PHASING AND SEQUENCING WITH ARCHITECTURAL DESIGNING DRAWINGS. PHASING IF SHOWN FOR CONSTRUCTION PURPOSES.

DRAWING NOTES:

- (N-1)** REFER TO POWER AND SYSTEMS DRAWINGS FOR AUTOMATIC DOOR OPERATOR LOCATIONS. SECURITY CONTRACTOR SHALL COORDINATE SECURITY ACCESS CONTROL WITH ADO DOORS.
- (N-2)** RELOCATE EXISTING SUPERVISORY VALVE AND FLOW SWITCH FOR SPRINKLER ZONE CONTROL CABINET TO NEW LOCATION SHOWN. COORDINATE FINAL LOCATION WITH MECHANICAL.



| REVISION | |
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| 1 | 2024-10-04 |
| 2 | 2024-11-15 |
| 3 | 2024-12-04 |
| 4 | 2024-12-23 |
| 5 | 2025-01-24 |
| 6 | 2025-01-31 |

- FAZ20 - IT ROOM 342C SECURITY NOTES:
- (S-1) DEVICES CONNECTED TO HONEYWELL ACCESS CONTROL SYSTEM.
 - (S-2) DEVICES CONNECTED TO SALTO ACCESS CONTROL SYSTEM.
 - (S-3) CONDUIT ROUGH IN ONLY FOR FUTURE LOCK BY ELECTRICAL CONTRACTOR.
- ELECTRONIC SAFETY AND SECURITY GENERAL NOTES:
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE PROJECT RELATED DOOR HARDWARE SCHEDULE AS WELL AS THE PROJECT RELATED ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS.
 - ALL ITEMS SHOWN ARE BY THE SECURITY CONTRACTOR UNLESS OTHERWISE NOTED.
 - LOCATIONS OF DEVICES SHOWN ARE APPROXIMATE. COORDINATE THE EXACT LOCATION OF EACH DEVICE ON SITE WITH OTHER TRADES.
 - COORDINATE THE INSTALLATION AND INTERFACING WITH ALL ELECTRIFIED LOCKS AND DOOR CONTACTS WITH THE DOOR HARDWARE CONTRACTOR.
 - COORDINATE THE INSTALLATION AND INTERFACING WITH ALL POWER CIRCUITS WITH THE ELECTRICAL CONTRACTOR.
 - COORDINATE EXACT MOUNTING HEIGHTS AND LOCATIONS OF CCTV CAMERAS ON SITE WITH ELECTRICAL CONTRACTOR. PROVIDE ALL MOUNTING BRACKETS TO ENSURE THAT ALL OBSTRUCTIONS ARE AVOIDED AND CLEAR VIEW OF TARGET AREAS IS ATTAINED.
 - ALL CABLES SHALL BE HOME RUN IN CONDUITS. CABLE SPLICES SHALL NOT BE ACCEPTABLE. WHERE CABLES ARE GROUPED AND INSTALLED IN A SINGLE CONDUIT THE CONDUIT SHALL BE SIZED TO MAXIMUM 40% FILL.
 - REVIEW ALL PROJECT RELATED ARCHITECTURAL, MECHANICAL, ELECTRICAL, COMMUNICATIONS AND AV DRAWINGS AND SPECIFICATIONS. DESIGN AND COORDINATE ALL OVERLAPPING WORK WITH SECURITY SYSTEMS TO AVOID COLLISIONS AND CONFLICTS OF DEVICES.
 - DEVICES SHALL NOT BE INSTALLED IN WALL AREAS THAT ARE DESIGNATED TO HAVE MARKER BOARD, FABRIC PANELS, OR ACCENT FINISHES UNLESS INDICATED SPECIFICALLY ON AN ELEVATED DRAWING.
 - DEVICES SHALL NOT BE INSTALLED ABOVE ANY FURNITURE AND SHALL BE LOCATED WHERE THERE IS ADEQUATE ACCESS FOR USE UNLESS INDICATED SPECIFICALLY ON AN ELEVATED DRAWING.
 - INFORM THE ENGINEER'S REPRESENTATIVE AND QC OF ALL DEVICE AND FURNITURE CONFLICTS PRIOR TO INSTALLATION. OBTAIN RESOLUTION TO DEVICE AND FURNITURE CONFLICTS FROM THE ENGINEER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- FIRE ALARM GENERAL NOTES:
- NEW SMOKE DETECTOR SHALL BE CONNECTED TO THE EXISTING BASE BUILDING ELEVATOR RECALL SYSTEM AND SHALL BE TIED INTO THE FIRE ALARM CONTROL PANEL. UPON ACTUATION OF A FIRE ALARM CONDITION ON THIS FLOOR THE FIRE ALARM PANEL SHALL SEND A RELAY TO THE ELEVATOR CONTROL PANEL FOR ELEVATOR AUTOMATIC RECALL SUCH THAT THE ELEVATOR RETURNS TO AN ALTERNATE FLOOR. PROVIDE ALL REQUIRED AUXILIARY CONTACTS AND RELAYS AT THE ELEVATOR CONTROL PANEL AND FIRE ALARM PANEL. ELECTRICAL CONTRACTOR TO COORDINATE ON SITE WITH LANDLORD AND ELEVATOR VENDOR FOR ALL REQUIREMENTS AND LOCATION OF EQUIPMENT. PROVIDE ALL REQUIRED FIRE ALARM VERIFICATION. ALL WORK TO COMPLY WITH CSA B44 LATEST EDITION TO THE SATISFACTION OF TSSA AND LOCAL AUTHORITIES HAVING JURISDICTION.
 - CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND CONTRACTOR PRIOR TO ROUGH-INS.
 - ROUTE ALL CONDUIT SYSTEMS AROUND DUCT WORK, BEAMS AND PIPING AS REQUIRED TO ACCOMMODATE LAYOUT SHOWN. REFER TO MECHANICAL DRAWINGS AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS.
 - COORDINATE ALL WORK TO SUIT PROJECT PHASE SCHEDULE. COORDINATE PHASING WITH ARCHITECT/INTERIOR DESIGN/OC DRAWINGS. PHASING IF SHOWN IS FOR REFERENCE PURPOSES ONLY.
- DRAWING NOTES:
- (N-1) INCLUDE IN THE COST FOR XTALIS SITE VISIT TO CONFIRM EXISTING SITE CONDITIONS TO PREPARE DOCUMENTATION REQUIRED FOR ADJUSTMENT OF XTALIS SYSTEM.
 - (N-2) PROVIDE AUXILIARY CONTACTS IN SMOKE DETECTOR SUCH THAT IT CAN SEND A SIGNAL TO FIRE SHUTTER CONTROL PANEL. PROVIDE 120V CONNECTION TO FIRE SHUTTER AND INSTALL UPDOWN CONTROL SWITCH ON WALL TO CONTROL FIRE SHUTTER. COORDINATE WIRING REQUIREMENTS WITH OC AND FINAL LOCATION OF SWITCH ON SITE WITH ARCHITECTS. COORDINATE THIS WORK WITH BASE BUILDING FIRE ALARM CONTRACTOR AND INCLUDE FOR FIRE ALARM VERIFICATION OF DEVICES AND TIE-INS. FIRE SHUTTER TO BE HELD OPEN DURING NORMAL OPERATION AND CLOSE IN EVENT OF FIRE ALARM ACTIVATION OR ADJACENT SMOKE DETECTOR.
 - (N-3) REFER TO POWER AND SYSTEMS DRAWINGS FOR AUTOMATIC DOOR OPERATOR LOCATIONS. SECURITY CONTRACTOR SHALL COORDINATE SECURITY ACCESS CONTROL WITH ADO DOORS.
 - (N-4) MODIFY EXISTING VESDA SMOKE DETECTION SYSTEM IN ATRIUM AS SHOWN AS WELL AS THE RELOCATION OF THE CONTROL PANEL. ELECTRICALIAN TO CONTACT XTALIS FOR REQUIRED SCOPE OF WORK AND TO INCLUDE ALL ASSOCIATED COSTS IN THE BID.
 - (N-5) NEW DCP PANEL COMPATIBLE WITH BASE BUILDING FIRE ALARM SYSTEM. CONNECT TO EMERGENCY CIRCUIT.
 - (N-6) WALLS SHOWN IN THIS HATCHED AREA ARE FOR REFERENCE ONLY. SPACE WILL BE IN SHELL CONDITION.

Smith + Andersen
1100 - 109 Sheppard Ave East, Toronto, ON, M2N 0N5
416-467-8151 smithandandersen.com

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416-546-7523
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SEAL :

OWNER:

UNIVERSITY OF TORONTO

PROJECT: **HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER**

214 COLLEGE ST.
TORONTO, ON M5T 3A1

SHEET CONTENTS:
LEVEL 03 - FIRE ALARM & SECURITY PLAN

PROJECT NUMBER:
21590.003

DRAWING SCALE:
1 : 100

DRAWN BY:
Author

CHECKED BY:
Checker

DATE:
Issue Date

SHEET NO.:
E503

REV: **6**