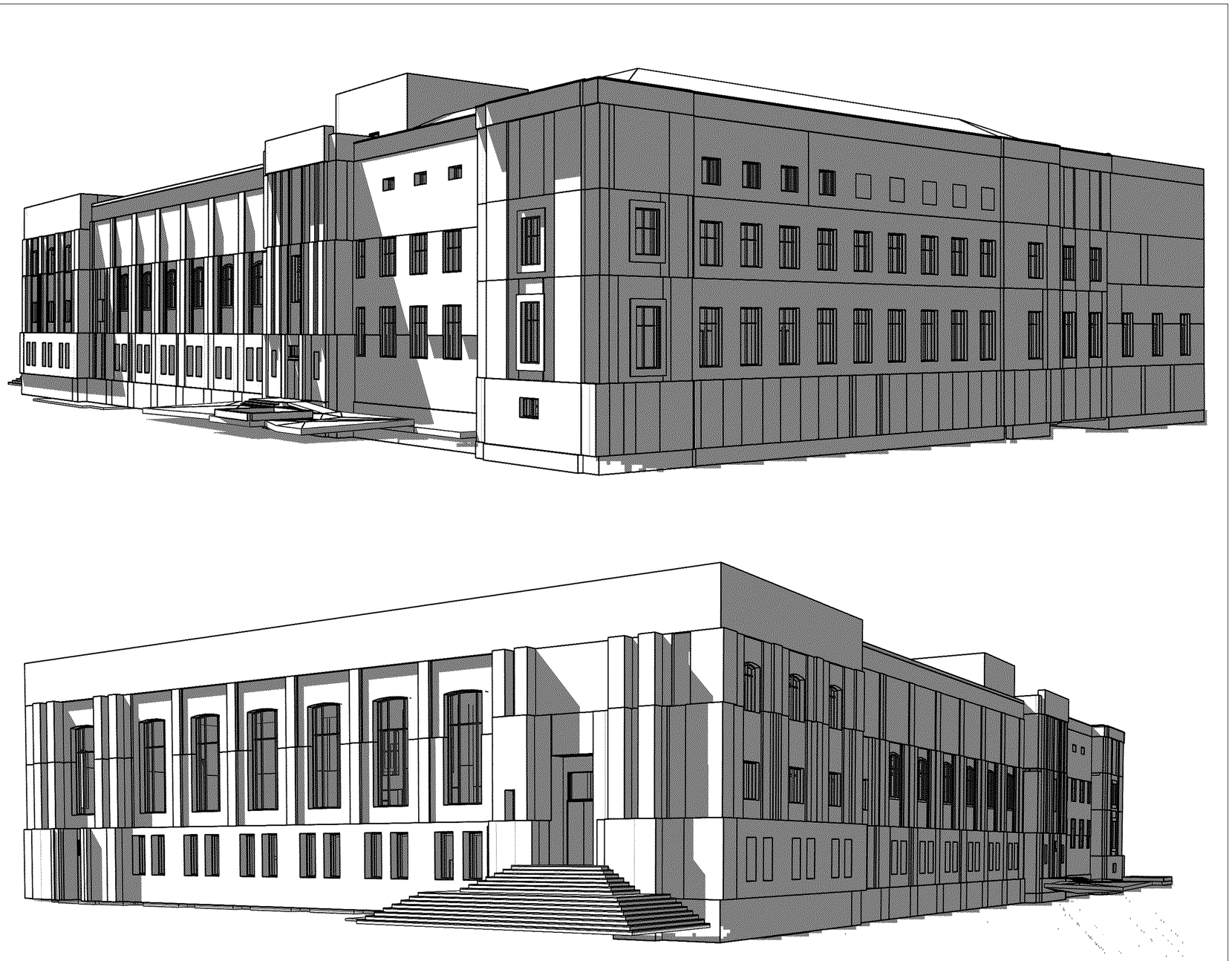
HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST, TORONTO, ON M5T 3A1

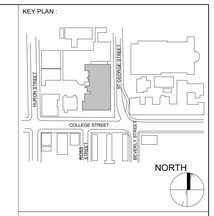


SHEET No.	SHEET NAME	SCALE
E000	COVER & DRAWING LIST - ELECTRICAL	N.T.S.
E010	LEGENDS - ELECTRICAL	N.T.S.
E020	STANDARD DETAILS - ELECTRICAL	N.T.S.
E021	STANDARD DETAILS - ELECTRICAL	N.T.S.
E022	IT/LAN ROOM PLANS	1:25
E023	LUMINAIRE SCHEDULE	N.T.S.
E024	RISER DIAGRAM	N.T.S.
E025	LIGHTING CONTROL LAYOUT	N.T.S.
E026	SINGLE LINE DIAGRAM	N.T.S.
E031	PANEL SCHEDULE	N.T.S.
E032	PANEL SCHEDULE	N.T.S.
E033	PANEL SCHEDULE	N.T.S.
E034	PANEL SCHEDULE	N.T.S.
E035	AV DIVISION OF RESPONSIBILTY MATRIX	N.T.S.
E036	STANDARD DETAILS - SECURITY	N.T.S.
E037	STANDARD DETAILS - SECURITY	N.T.S.
E038	STANDARD DETAILS - SECURITY	N.T.S.
E101	SITE PLAN - ELECTRICAL	1:200
E202	SECURITY RISER DIAGRAM	N.T.S.
E301	LEVEL 01 - POWER PLAN	1:100
E301-M2	LEVEL 01 UPPER MEZZ - POWER PLAN	1:100
E302	LEVEL 02 - POWER PLAN	1:100
E303	LEVEL 03 - POWER PLAN	1:100
E305	ROOF - POWER PLAN	1:100
E306	LEVEL 00 - PATHWAY LAYOUT	1:100
E307	LEVEL 01 - PATHWAY LAYOUT	1:100
E308	LEVEL 02 - PATHWAY LAYOUT	1:100
E309	LEVEL 03 - PATHWAY LAYOUT	1:100
E401	LEVEL 01 - LIGHTING PLAN	1:100
E401-A	LEVEL 01 - LIGHTING CONTROL PLAN	1:100
E402	LEVEL 02 - LIGHTING PLAN	1:100
E402-A	LEVEL 02 - LIGHTING CONTROL PLAN	1:100
E403	LEVEL 03 - LIGHTING PLAN	1:100
E403-A	LEVEL 03 - LIGHTING CONTROL PLAN	1:100
E404	LEVEL 04 - LIGHTING PLAN	1:100
E501	LEVEL 01 - FIRE ALARM & SECURITY PLAN	1:100
E502	LEVEL 02 - FIRE ALARM & SECURITY PLAN	1:100
E503	LEVEL 03 - FIRE ALARM & SECURITY PLAN	1:100
E600	SNOWMELTING SYSTEM LAYOUT	1:25
E701	LEVEL 01 - ELECTRICAL - DEMOLITION	1:100
E702	LEVEL 02 - ELECTRICAL - DEMOLITION	1:100
E703	LEVEL 03 - ELECTRICAL - DEMOLITION	1:100
E705	LEVEL 01 EXISTING CONDUIT PLAN (FOR REFERENCE)	N.T.S.
E706	LEVEL 02 EXISTING CONDUIT PLAN (FOR REFERENCE)	N.T.S.
E707	LEVEL 03 EXISTING CONDUIT PLAN (FOR REFERENCE)	N.T.S.

NOTE:

THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH MECHANICAL, COMMUNICATIONS, SECURITY AND AV DRAWINGS TO ENSURE ALL RELEVANT DIVISION 26 SCOPE OF WORK (CONDUIT, WIRING, PATHWAYS, ETC.) IS CAPTURED. READ ALL DRAWINGS AND SPECIFICATIONS OF ALL DISCIPLINES PRIOR TO CONSTRUCTION.

KEY PLAN :



REVISION

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
12	2025-04-30	ISSUED FOR CONSTRUCTION

THIS DRAWING IS "ISSUED FOR CONSTRUCTION" AND IS CONSIDERED COMPLEMENTARY TO THE CONTRACT DOCUMENTS. TO THE BEST OF OUR KNOWLEDGE IT IS AN ACCURATE REPRESENTATION OF DOCUMENTED REVISIONS. IN THE CASE OF ANY DISCREPANCY, OMISSION OR CONFLICT BETWEEN THIS "ISSUED FOR CONSTRUCTION" DOCUMENT AND THE CONTRACT DOCUMENTS, THE CONTRACTOR IS TO PROMPTLY BRING IT TO THE ATTENTION OF THE CONSULTANT.

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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 :

COVER & DRAWING LIST - ELECTRICAL

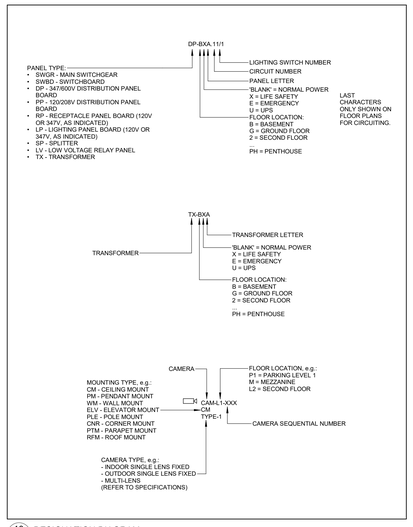
PROJECT NUMBER :
21590.003

DRAWING SCALE :
N.T.S.

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

SHEET NO :
E000

REV :
12



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	KILLOWATTS
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-XX-XX	FIRST XX INDICATES FLOOR NUMBER, SECOND XX INDICATES CAMERA NUMBER
CNR 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 XXXXmm AFF. XXXX INDICATES SPECIFIC HEIGHT
PLE XXX AFF	POLE MOUNT AT XXXXmm 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=RECOGNIZE, FUNC.04=IDENTIFY REFER TO SPECIFICATIONS AND SCHEDULES FOR ADDITIONAL DETAILS.

NOTE: NOT ALL SYMBOLS APPLY. CONTRACTOR TO REFER TO FLOOR PLANS.

13 E010 SECURITY ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
▼	WALL MOUNTED DATA AND VoIP DATA OUTLET(S). 2 DATA CABLES UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION	EPS	EMERGENCY PHONE SYSTEM OUTLET(S). 1 ANALOG VOICE CABLE UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION
	WALL MOUNTED ABOVE COUNTER DATA AND VoIP DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION	IC	COMMUNICATIONS INTERCOM OUTLET(S). 1 DATA CABLE UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION
▼	WALL MOUNTED ANALOG VOICE OUTLET(S). 1 ANALOG VOICE CABLE UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION	MIC	COMMUNICATIONS MASTER INTERCOM OUTLET(S). 1 DATA CABLE UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION
	WALL MOUNTED ABOVE COUNTER VOICE OUTLET(S). 1 ANALOG VOICE CABLE UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION		SERVICE POLE MOUNTED DATA AND VoIP DATA OUTLET(S). 2 DATA CABLES UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION
▽	WALL MOUNTED DATA OUTLET(S). 1 DATA CABLE UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION		RACEWAY MOUNTED DATA AND VoIP DATA OUTLET(S) 2 DATA CABLES UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION
	WALL MOUNTED ABOVE COUNTER DATA OUTLET(S). 1 DATA CABLE UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION		CATV OUTLET(S). 1 COAXIAL CABLE UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION
	FLOOR MOUNTED DATA AND VoIP DATA OUTLET(S). 2 DATA CABLES UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION	–J–J–J–J–	MAIN CABLE SUPPORT ROUTE FOR COMMUNICATIONS CABLING
	FLOOR MOUNTED ANALOG VOICE OUTLET(S). 1 ANALOG VOICE CABLE UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION	CB	COMMUNICATIONS BOX
	FLOOR MOUNTED DATA OUTLET(S). 1 DATA CABLE UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION	P	POWER ZONE BOX
	FURNITURE MOUNTED DATA AND VoIP DATA OUTLET(S). 2 DATA CABLES UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION	T	TELEPHONE ZONE BOX
	FURNITURE MOUNTED ANALOG VOICE OUTLET(S). 1 ANALOG VOICE CABLE UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION	⬢	FEED POINT FOR COMMUNICATIONS CABLING. LETTER DENOTES FEED LOCATION: W = WALL, F = FLOOR, P = PAC POLE, WM = WIREMOLD
	FURNITURE MOUNTED DATA OUTLET(S). 1 DATA CABLE UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION		
	CEILING MOUNTED DATA AND VoIP DATA OUTLET(S) 2 DATA CABLES UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION	2D	TWO (2) DATA CABLES.
	CEILING MOUNTED DATA OUTLET(S). 1 DATA CABLE UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION	3D	THREE (3) DATA CABLES.
▼AV	WALL MOUNT DATA OUTLET(S) FOR AUDIOVISUAL. 2 DATA CABLES UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION		
▽AV	WALL MOUNT DATA OUTLET(S) FOR AUDIOVISUAL. 1 DATA CABLES UNLESS OTHERWISE NOTED. CABLE TYPE AS PER SPECIFICATION		

NOTE: NOT ALL SYMBOLS APPLY, REFER TO DRAWINGS

14 E010 DATA/COMMUNICATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
TAG - ##	AUDIO VISUAL SYSTEM DEVICE IDENTIFICATION NUMBER	PROJ - ## AV	PROJECTOR
RACK - ## ID	AV EQUIPMENT RACK RACK 'ID' DESIGNATION: 'AV' = FREE STANDING EQUIPMENT 'CR' = CREDENZA RACK 'RC' = RACK ON CASTERS	LIFT - ## AV	PROJECTOR ON LIFT
TAG - ## XX	WALL MOUNT FLAT PANEL DISPLAY. DISPLAY 'TAG' DESIGNATION: 'FPD' = FLAT PANEL DISPLAY. 'IAD' = INTERACTIVE DISPLAY. 'DS' = DIGITAL SIGNAGE DISPLAY 'MW' = MEDIA WALL DISPLAY(S). SEE DRAWING FOR QUANTITIES. NOTE: 'XX' DENOTES SCREEN SIZE (INCHES)	SCR - ## XX	PROJECTION SCREEN NOTE: 'XX' DENOTES SCREEN SIZE (INCHES)
		TAG - ## S	CEILING RECESSED SPEAKER 'TAG' DESIGNATION: 'S' = AV SPEAKER
TAG - ## XX	CEILING MOUNT FLAT PANEL DISPLAY. DISPLAY 'TAG' DESIGNATION: 'PMD'= POLE MOUNT FLAT PANEL DISPLAY 'PDD'= POLE MOUNT DUAL FLAT PANELS DISPLAYS NOTE: 'XX' DENOTES SCREEN SIZE (INCHES)	TAG - ## S	SURFACE MOUNT SPEAKER 'TAG' DESIGNATION: 'S' = AV SPEAKER
		TAG - ##	WALL MOUNT ANTENNA 'TAG' DESIGNATION: 'ANT' = MICROPHONE ANTENNA 'HA' = HEARING ASSIST ANTENNA
TAG - ## XX	WALL MOUNT AV INTERFACE 'TAG' DESIGNATION: 'RBD' = ROOM BOOKING DISPLAY 'MRD' = MEETING ROOM DISPLAY 'CTL'= TOUCH CONTROL PANEL NOTE: 'XX' DENOTES SCREEN SIZE (INCHES)	TAG - ##	CEILING MOUNT ANTENNA 'TAG' DESIGNATION: 'ANT' = MICROPHONE ANTENNA 'HA' = HEARING ASSIST ANTENNA
TAG - ##	BUTTON CONTROL PANEL BY AUDIOVISUAL CONTRACTOR 'TAG' DESIGNATION: 'BP'= BUTTON PANEL 'VC'= VOLUME CONTROL 'SC'= SCREEN CONTROL (FOR PROJECTION SCREENS).	MIC - ## M	CEILING MOUNT MICROPHONE
		AV - ##	AV MUDRING AV INPUT PLATE (1 GANG) (2 GANG) (3 GANG)
FB - ##	FLOORBOX CONNECTION FOR TABLETOP CONNECTIVITY.	AV - ##	AV BACKBOX (1 GANG) (2 GANG) (3 GANG)
CAM - ## AV	WALL MOUNT AV CAMERA.		
CAM - ## AV	CEILING MOUNT AV CAMERA.	AV 'SIZE'	AV CABLE PULL BOX SIZE DESIGNATION: '6X6' = 6X6X6 AV CABLE PULL BOX '12X12' = 12X12X6 AV CABLE PULL BOX

NOTE: NOT ALL SYMBOLS APPLY, REFER TO DRAWINGS

15 E010 A/V LEGEND

10 E010 DESIGNATION DIAGRAM

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
ACCESS CONTROL			
ACP	ACCESS CONTROL SYSTEM PANEL	KS	KEY SWITCH
ACSS	ACCESS CONTROL SYSTEM SERVER	LBM	LATCH BOLT MONITOR
ADO	AUTOMATIC DOOR OPERATOR	LRX	LATCH REQUEST TO EXIT
CR TYPE 1	CARD READER (SALTO)	MKR	MAGLOCK KEY RESET SWICTH
CR	CARD READER (HID R40)	MHO	MAGNETIC DOOR HOLD/OPEN DEVICE
CMS	CENTRAL MANAGEMENT STATION	ML	MAGNETIC LOCK
DA	DOOR ALARM	MRX	MOTION REQUEST TO EXIT
DC	DOOR CONTACT	PSCU	POWER SUPPLY CONTROL UNIT
EHO	ELECTRIC DOOR HOLD/OPEN DEVICE	⊡	PUSH BUTTON DOOR OPERATOR
ELR	ELECTRIC LATCH RETRACTION	PRX	PUSH BUTTON REQUEST TO EXIT
EML	ELECTRIC MORTISE LOCK	RR	REMOTE RELEASE
ES	ELECTRIC STRIKE	RFN	RF NODE
GTW	GATEWAY	RFR	RF RECEIVER
IDC	IP DOOR CONTROLLER	XX	SECURITY DOOR TAG. XX DENOTES TYPE
KEN	KEY ENCODER	WL	WIRELESS LOCK
REAL TIME LOCATING SYSTEM (RTLS)			
LFE	LOW FREQUENCY EXCITER	RFRM	RF READER MASTER
IRR	INFRARED READER	RFR	RF READER
RDU	REMOTE DISPLAY UNIT	RFER	RF ETHERNET READER
LAR	LOCAL AREA RECEIVER	RFLR	RF LONG RANGE READER

NOTE: NOT ALL SYMBOLS APPLY, REFER TO DRAWINGS

11 E010 SECURITY LEGEND 1 OF 2

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
ELECTRONIC PERSONAL PROTECTION			
EPS	EMERGENCY PHONE STATION	DAS	DURESS ALARM STATION
SL	STROBE LIGHT	PAR	PANIC ALARM RECEIVER
	PANIC BUTTON	ARS	ASSISTANCE REQUIRED SIGNAGE
INTERCOM LEGEND			
IC	INTERCOM	MIC	MASTER INTERCOM
ENT	ENTRY PHONE CONSOLE		
VIDEO SURVEILLANCE			
	FIXED CAMERA	VSSS	VIDEO SURVEILLANCE SYSTEM SERVER
PTZ	PAN-TILT-ZOOM CAMERA	PI	POWER INJECTOR
	PERSONAL COMPUTER	VM	VIDEO MONITOR
	COMPUTER MONITOR		FIXED VIDEO SURVEILLANCE CAMERA HORIZONTAL ANGLE OF VIEW
DVR	DIGITAL VIDEO RECORDER		LCD MONITOR SIZE AS INDICATED
NVR	NETWORK VIDEO RECORDER		
INTRUSION DETECTION			
SI	SIREN	IDP	INTRUSION DETECTION SYSTEM PANEL
BG	BREAK GLASS SENSOR	POW	POWER SUPPLY
MS	MOISTURE SENSOR		WALL MOUNTED SECURITY MOTION SENSOR
K	KEYPAD		CEILING MOUNTED SECURITY 360° MOTION SENSOR

NOTE: NOT ALL SYMBOLS APPLY, REFER TO DRAWINGS

12 E010 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	S	CEILING MOUNTED EMERGENCY EVACUATION SPEAKER
	CEILING MOUNTED HORN+STROBE COMBINATION. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED	S	WALL MOUNTED EMERGENCY EVACUATION SPEAKER
	WALL MOUNTED HORN+STROBE COMBINATION. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED	S	CEILING MOUNTED EMERGENCY EVACUATION SPEAKER + STROBE COMBINATION. STROBE INSTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED.
	CEILING MOUNTED DOUBLE SIDED HORN+STROBE COMBINATION. STROBE INTENSITY TO BE MIN 15CD UNLESS OTHERWISE NOTED.	S	WALL MOUNTED EMERGENCY EVACUATION SPEAKER + STROBE COMBINATION. STROBE INSTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED.
	WALL 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.
	MINI HORN		WALL MOUNTED FIRE ALARM STROBE. STROBE INTENSITY TO BE MIN. 15CD UNLESS OTHERWISE NOTED.
ANCILLARY DEVICES			
ISO	ISOLATION MODULE	MON	MONITORING MODULE FOR ALARM OR SUPERVISORY
CTL	FIELD INSTALLED ADDRESSABLE CONTROL POINT	PACP	TROUBLE AND ALARM CONNECTION TO PRE-ACTION CONTROL PANEL
FIRE	"FIRE, DO NOT ENTER" SIGN		FLOOR MOUNTED DOOR HOLD OPEN DEVICE
FG	FIRE ALARM GRAPHIC (PASSIVE/ACTIVE)		WALL MOUNTED DOOR HOLD OPEN DEVICE
VDT	VIDEO DISPLAY TERMINAL, FOR BUILDING OPERATIONS PERSONNEL		FIRE ALARM PANEL. CONTROL, DGP OR ANNUNCIATOR AS NOTED
HS	FIRE FIGHTERS HAND SET		END-OF-LINE RESISTOR TERMINATION
FASD	FIRE ALARM SHUT DOWN		SMOKE DAMPER, USED IN CONJUCTION WITH MONITORING DEVICE FOR POSITION ANNUNCIATION AND CONTROL DEVICE
FASU	FIRE ALARM START UP	SS	10 MINUTES SILENCE SWITCH FOR SPEAKERS IN SUITES
RT	REMOTE TESTING STATION FOR DUCT SMOKE DETECTORS	NOTE: NOT ALL SYMBOLS APPLY, REFER TO DRAWINGS	

7 E010 FIRE ALARM LEGEND 2 OF 2

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ISOLATION TRANSFORMER - DELTA-WYE UNLESS OTHERWISE NOTED.		AUTO-TRANSFORMER
			BATTERY
	ISOLATION TRANSFORMER WITH ELECTROSTATIC SHIELD - DELTA-WYE UNLESS OTHERWISE NOTED.	C	CONTACTOR
			CURRENT TRANSFORMER
	MOLDED CASE CIRCUIT BREAKER, SIZE AS SHOWN.		CURRENT TRANSFORMER (Z.S. - DENOTES ZERO SEQUENCE)
	LOW VOLTAGE, DRAW-OUT CIRCUIT BREAKER, TRIP PLUG AND FRAME SIZE AS SHOWN.	DSP	GROUND FAULT ALARM RELAY
	DRAW-OUT VACUUM CIRCUIT BREAKER, PROTECTIVE RELAY FUNCTIONS AND FRAME SIZE AS SHOWN.	DMS	IP BASED POWER QUALITY DIGITAL METER. PROVIDE 21mm(3/4") CONDUIT TO NEAREST TELECOM ROOM.
	FUSIBLE LOAD BREAK ISOLATION SWITCH. VOLTAGE, FUSE AND FRAME SIZE AS SHOWN.		EMERGENCY GENERATOR
	FUSE		GROUND CONNECTION POINT
	INSULATED CASE CIRCUIT BREAKER	GF	ELECTRONIC TRIP SETTING CONTROL (GROUND FAULT)
	INTEGRAL BREAKER AND STARTER UNIT, BREAKER AND FRAME SIZE AS SHOWN		GROUND LOOP
	INTEGRAL SWITCH AND FUSE UNIT, FUSE AND FRAME SIZE AS SHOWN	HRG	HIGH RESISTANCE GROUND FAULT SYSTEM
	LOAD BREAK ISOLATION SWITCH. VOLTAGE AND FRAME SIZE AS SHOWN.		LIGHTNING SURGE ARRESTOR
	AUTOMATIC TRANSFER SWITCH WITH BY-PASS		LOAD BANK
	AUTOMATIC TRANSFER SWITCH WITHOUT BY-PASS	M	METERING SOCKET
		M	METERING CABINET
	FIRE PUMP AUTOMATIC TRANSFER SWITCH AND STARTER UNIT (BY OTHERS)	EM	DIGITAL ELECTRONIC METER
	MANUAL TRANSFER SWITCH OR DOUBLE THROW SWITCH	A	AMMETER

NOTE: NOT ALL SYMBOLS APPLY, REFER TO DRAWINGS

8 E010 SINGLE LINE 1 OF 2

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
SPD	SURGE PROTECTION DEVICE	K K	KEY INTERLOCK SYSTEM - ONE KEY
	POTENTIAL TRANSFORMER	K K K	KEY INTERLOCK SYSTEM - N LOCKS, N-1 KEYS UNLESS NOTED OTHERWISE
ZSCT	ZERO SEQUENCE CURRENT TRANSFORMER	E E E	ELECTRONIC INTERLOCK SYSTEM - N LOCKS
	UPS DIODE		MEDIUM VOLTAGE CABLE TERMINATION POINT WITH STRESS CONE
V	VOLTAGE INDICATOR	TR	ELECTRONIC TRANSFORMER TEMPERATURE RELAY
195KW	DENOTED CONNECT ' ED ' LOAD APPLIED TO DESIGNATED APPARATUS.	PM	POWER METER
PFC - KVAR	AUTOMATIC POWER FACTOR CORRECTION CAPACITOR SYSTEM, SIZE AS SHOWN. COMPLETE WITH TUNED INPUT FILTER.	DTU	DIGITAL TRIP UNIT WITH METERING FUNCTION
	HIGH RESISTANCE GROUNDING RESISTOR - MAXIMUM CONTINUOUS AMPS AS SHOWN	ST	SHUNT TRIP
50/51	RELAY FUNCTION NUMBER	GW	IP BASED GATEWAY FOR POWER MONITORING
LS	ELECTRONIC TRIP SETTING CONTROL (LONG, SHORT)		
LSI	ELECTRONIC TRIP SETTING CONTROL (LONG, SHORT, INSTANTANEOUS)		
LSIG	ELECTRONIC TRIP SETTING CONTROL (LONG, SHORT, INSTANTANEOUS, GROUND FAULT)		

NOTE: NOT ALL SYMBOLS APPLY, REFER TO DRAWINGS

9 E010 SINGLE LINE 2 OF 2

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	WALL MOUNTED DUPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R		WALL MOUNTED SIMPLEX RECEPTACLE 250V, 50 AMP, CSA 14-50R
	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 (T-SLOT)		
	WALL MOUNTED ABOVE COUNTER DUPLEX RECEPTACLE 120V, 20 AMP, CSA 5-20R (T-SLOT)		FLOOR OR CEILING MOUNTED (AS SHOWN) COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R. REFER TO CORRESPONDING DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R, DEDICATED CIRCUIT		
	WALL MOUNTED DUPLEX RECEPTACLE 120V, 20 AMP, CSA 5-20R, DEDICATED CIRCUIT		FLOOR POKE THROUGH COMBINATION COMMUNICATION / QUADPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R. REFER TO CORRESPONDING DETAIL
	WALL MOUNTED SPLIT SWITCH CONTROLLED DUPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R		
	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		
	WALL MOUNTED DUPLEX GROUND FAULT RECEPTACLE 120V, 20 AMP, CSA 5-20R		FLOOR OR CEILING MOUNTED (AS SHOWN) COMBINATION COMMUNICATION / DUPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R. REFER TO CORRESPONDING DETAIL
	WALL MOUNTED ABOVE COUNTER DUPLEX GROUND FAULT RECEPTACLE 120V, 20 AMP, CSA 5-20R		
	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 ABOVE COUNTER QUADPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R		
	WALL MOUNTED DUPLEX RECEPTACLE 120V, 15 AMP, 2 POLE, SPLIT CIRCUIT	15A 20A	CEILING MOUNTED DUPLEX RECEPTACLE 120V, 15 AMP / 20 AMP, CSA 5-15R
	WALL MOUNTED ABOVE COUNTER DUPLEX RECEPTACLE 120V, 15 AMP, 2 POLE, SPLIT CIRCUIT		CEILING MOUNTED SIMPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R
	WALL MOUNTED SIMPLEX RECEPTACLE 250V, 15 AMP, 3 PHASE, CSA 15-15R	15A 20A	CEILING MOUNTED QUADPLEX RECEPTACLE 120V, 15 AMP / 20 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		FLOOR MOUNTED QUADPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R
	WALL MOUNTED SIMPLEX RECEPTACLE 120V, 20 AMP, CSA 5-20R		RACEWAY RECEPTACLE, TYPE AS SPECIFIED C/W QUANTITY OF DEVICES INDICATED
	WALL MOUNTED SIMPLEX RECEPTACLE 250V, 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	USB	WALL MOUNTED RECEPTACLE C/W USB A&C LEVITON T5634-W

NOTE: NOT ALL SYMBOLS APPLY, REFER TO DRAWINGS

4 E010 POWER LEGEND 1 OF 2

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FLUSH MOUNTED SINGLE TUB PANEL. RATING AS NOTED ON SINGLE LINE/PANEL SCHEDULE	©	CONTACTOR
	FLUSH MOUNTED DOUBLE TUB PANEL. RATING AS NOTED ON SINGLE LINE/PANEL SCHEDULE		GROUND ROD WITH INSPECTION PIT
	SURFACE MOUNTED SINGLE TUB PANEL. RATING AS NOTED ON SINGLE LINE/PANEL SCHEDULE	T	THERMOSTAT - 16mm (1/2") CONDUIT TO ACCESSIBLE CEILING SPACE
	SURFACE MOUNTED DOUBLE TUB PANEL. RATING AS NOTED ON SINGLE LINE/PANEL SCHEDULE	JB	JUNCTION BOX (SIZE SPECIFIED ON DRAWING)
⊠	TRANSFORMER (SIZE NOTED ON SINGLE LINE DIAGRAM)		ELECTRIC UNIT HEATER
	DISCONNECT	X	ELECTRIC BASEBOARD HEATER. 'X' DENOTES TYPE. REFER TO BASEBOARD HEATER SCHEDULE
	COMBINATION MANUAL STARTER WITH INTEGRAL DISCONNECT		GROUND BAR
	COMBINATION STARTER WITH INTEGRAL DISCONNECT	HD	HAND DRYER HARD WIRED CONNECTION
	DIRECT CONNECTION	M	METER
	600V DIRECT CONNECTION	R	RELAY
	DIRECT CONNECTION C/W DISCONNECT	PB	PULL BOX
	600V DIRECT CONNECTION C/W DISCONNECT		GROUND BUS
	MOTOR AND DISCONNECT	1	DENOTES RECEPTACLE TYPE. REFER TO RECEPTACLE SCHEDULE
R	MOTOR AND RELAY DISCONNECT		UTILITY METERING CABINET
	MOTOR AND COMBINATION STARTER WITH INTEGRAL DISCONNECT		DOOR BELL / CHIME
HF VFD	VARIABLE FREQUENCY DRIVE AND VFD CABLE CONNECTION TO MOTOR. LINE AND LOAD SIDE WIRING OF HARMONIC FILTER AND VFD BY ELECTRICAL CONTRACTOR. MOTOR, VFD AND HARMONIC FILTER SUPPLIED BY MECHANICAL DIVISION.		CLOCK WALL MOUNTED
			CLOCK CEILING MOUNTED
VFD	VARIABLE FREQUENCY DRIVE. LINE AND LOAD SIDE WIRING OF HARMONIC FILTER AND VFD BY ELECTRICAL CONTRACTOR, LOAD SIDE WIRING OF VFD TO BE VFD CABLE. VFD AND HARMONIC FILTER SUPPLIED BY MECHANICAL DIVISION	⊡	PUSH BUTTON
			MOTOR
HF	HARMONIC FILTER (SUPPLIED BY MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE) LINE AND LOAD SIDE WIRING OF HARMONIC FILTER BY ELECTRICAL CONTRACTOR	■	SOLAR PANEL

NOTE: NOT ALL SYMBOLS APPLY, REFER TO DRAWINGS

5 E010 POWER LEGEND 2 OF 2

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
ALARM INITIATING DEVICES			
	CEILING MOUNTED PHOTO-ELECTRIC SMOKE DETECTOR		AIR SAMPLING SYSTEM
	WALL MOUNTED PHOTO-ELECTRIC SMOKE DETECTOR		MANUAL STATION
	CEILING MOUNTED PHOTO-ELECTRIC SMOKE DETECTOR C/W RELAY BASE	BDTX	BEAM SMOKE DETECTOR (TRANSMITTER)
	CEILING MOUNTED RATE-OF-RISE HEAT DETECTOR	BDRX	BEAM SMOKE DETECTOR (RECEIVER)
	WALL MOUNTED RATE-OF-RISE HEAT DETECTOR	F	FLAME DETECTOR
	CEILING MOUNTED FIXED TEMPERATURE HEAT DETECTOR		
	WALL MOUNTED FIXED TEMPERATURE HEAT DETECTOR		
m	DUCT TYPE PHOTO-ELECTRIC SMOKE DETECTOR		
m	DUCT TYPE PHOTO-ELECTRIC SMOKE DETECTOR COMPLETE WITH HEATER		
	CEILING MOUNTED COMBINATION HEAT + SMOKE DETECTOR		
LOCAL ALARM DEVICES			
SA	LOCAL 120V SMOKE ALARM	SA	LOCAL 120V COMBINATION SMOKE ALARM AND STROBE
CO/SA	LOCAL 120V COMBINATION CARBON MONOXIDE AND SMOKE ALARM	CO/SA	LOCAL 120V COMBINATION CARBON MONOXIDE, SMOKE ALARM AND STROBE
CO	LOCAL 120V CARBON MONOXIDE ALARM		
SPRINKLER/STANDPIPE DEVICES			
LP	LOW PRESSURE SUPERVISED SWITCH (SUPPLIED BY OTHERS)	DPV	ALARM DRY PIPE VALVE (SUPPLIED BY OTHERS)
SV	SPRINKLER SUPERVISED VALVE (SUPPLIED BY OTHERS)		
FS	ALARM FLOW SWITCH (SUPPLIED BY OTHERS)		
PS	ALARM PRESSURE SWITCH (SUPPLIED BY OTHERS)		
ACV	ALARM CHECK VALVE (SUPPLIED BY OTHERS)		

NOTE: NOT ALL SYMBOLS APPLY, REFER TO DRAWINGS

6 E010 FIRE ALARM LEGEND 1 OF 2

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
2 E-01	DETAIL NUMBER DRAWING NUMBER	1 E-04	SECTION NUMBER DRAWING NUMBER
4	REVISION NUMBER		REVISION BUBBLE
A	AMPS	MO	MOTOR OPERATED
AD	ACCESS DOOR	MOD	MOTOR OPERATED DAMPER
AFCI	ARC FAULT CIRCUIT INTERRUPTER	MW	MICROWAVE
AFF	ABOVE FINISHED FLOOR	N	NEW
BBH	BASEBOARD HEATER	NC	NORMALLY CLOSED
BU	BATTERY UNIT	NIC	NOT IN CONTRACT
C	CONDUIT	NL	NIGHT LIGHT
CD	CANDELA	NO	NORMALLY OPEN
CL	CEILING MOUNTED	OC	OVER COUNTER
CS	CHARGING STATION	OL	OBSTRUCTION LIGHT
CV	CONVENTIONAL STYLE DEVICE	P	PARABOLIC LOUVRE
D	DEDICATED	PL	PATIENT LIFT
DG	DEDICATED GROUND	R	RELOCATE
DHWT	DOMESTIC HOT WATER TANK	RA	RANGE
DNC	DEDICATED NEUTRAL + BOND	RC	REVISE EXISTING CIRCUIT
DR	LAUNDRY DRYER	RH	RANGE HOOD
DW	DISHWASHER	RIC	ROUGH IN AND CONNECT
E	EXISTING	RO	ROUGH IN ONLY
EF	EXHAUST FAN	RR	REMOVE AND REINSTALL
EM	EMERGENCY CIRCUIT	SC	SEPARATE CIRCUIT
EP	ELECTRICAL SUITE PANEL	SF	SYSTEM FURNITURE
ER	EXISTING TO BE REMOVED	SP	SUITE ALARM PANEL
F	REFRIGERATOR	SSP	SLAVE SUITE ALARM PANEL
FF	FLOOR FEED	TYP	TYPICAL
FFH	FORCE FLOW HEATER	UC	UNDER CABINET MOUNTED
FL	FLOOR MOUNTED	U	UPS CIRCUIT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UH	UNIT HEATER
GFI	GROUND FAULT INTERRUPTER	UPS	UNINTERRUPTIBLE POWER SUPPLY
GND	GROUND	V	VOLTS
HK	HOUSE KEEPING	W	WATTS
HMT	HARMONIC MITIGATING TRANSFORMER	WG	WIRE GUARD
ICE	ICE MACHINE	WAP	WIRELESS ACCESS POINT
IG	ISOLATED GROUND	WF	WALL FEED
JB	JUNCTION BOX	WP	WEATHERPROOF
KW	KILOWATTS	X	EXPLOSION PROOF DEVICE + BACK BOX
LV	LOW VOLTAGE	ZSCT	ZERO SEQUENCE CURRENT TRANSFORMER

NOTE: NOT ALL SYMBOLS APPLY, REFER TO DRAWINGS

1 E010 GENERAL, SYMBOLS AND ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CEILING MOUNTED LINEAR LUMINAIRE. DIMENSIONS AS SHOWN. REFER TO SCHEDULE FOR TYPE		CEILING MOUNTED WALL WASHER LUMINAIRE. ILLUMINATION DIRECTION DENOTED BY HATCHED SIDE
	DENOTES FIXTURE ON EMERGENCY/NIGHT LIGHT CIRCUIT.	▽▽▽	CEILING MOUNTED TRACK LIGHTING C/W NUMBER OF FIXTURES
	WALL MOUNTED LINEAR LUMINAIRE. DIMENSIONS AS SHOWN. REFER TO SCHEDULE FOR TYPE		WALL MOUNTED LUMINAIRE
	EXISTING LUMINAIRE TO BE REMOVED		PENDANT FIXTURE
▭	EXISTING LUMINAIRE TO REMAIN		CEILING MOUNTED LUMINAIRE
○○○○○	CEILING MOUNTED LUMINAIRE WITH GIMBALLED HEADS. REFER TO SCHEDULE FOR TYPE AND NUMBER OF HEADS		FLOOR MOUNTED LUMINAIRE
	VERTICAL WALL MOUNTED FLUORESCENT LUMINAIRE		BOLLARD LUMINAIRE
	CONTINUOUS STRIP LIGHT. REFER TO SCHEDULE FOR FIXTURE TYPE		POLE MOUNTED LUMINAIRE. NUMBER OF HEADS SHOWN. REFER TO SCHEDULE FOR FIXTURE AND POLE TYPE
	RECESSED CEILING MOUNTED REMOTE ADJUSTABLE LUMINAIRE CONNECTED TO EMERGENCY LIGHTING BATTERY UNIT.	B	EMERGENCY LIGHTING BATTERY UNIT C/W NUMBER OF HEADS SHOWN COMPLETED W/ DIRECT CONNECTION OR RECEPTACLE
	WALL MOUNTED EMERGENCY SINGLE REMOTE HEAD	B	EMERGENCY LIGHTING BATTERY UNIT
	WALL MOUNTED EMERGENCY DOUBLE REMOTE HEAD	B	EMERGENCY LIGHTING BATTERY + EXIT LIGHT COMBINATION UNIT C/W NUMBER OF HEADS SHOWN
	CEILING MOUNTED EMERGENCY SINGLE REMOTE HEAD		EXIT LIGHT CEILING MOUNTED C/W FACES AND ARROWS AS INDICATED
	CEILING MOUNTED EMERGENCY DOUBLE REMOTE HEAD		EXIT LIGHT WALL MOUNTED C/W FACES AND ARROWS AS INDICATED

NOTE: NOT ALL SYMBOLS APPLY, REFER TO DRAWINGS

2 E010 LIGHTING LEGEND 1 OF 2

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
$	SINGLE POLE LINE VOLTAGE LIGHT SWITCH	PC	CEILING MOUNTED PHOTO CELL SWITCH
	2 GANG - LINE VOLTAGE LIGHT SWITCH	PC	WALL MOUNTED PHOTO CELL SWITCH
	3 GANG - LINE VOLTAGE LIGHT SWITCH	DL	DAY LIGHT PHOTO SENSOR
	4 GANG - LINE VOLTAGE LIGHT SWITCH	TS	TIME SWITCH
$ 3	3 WAY - LINE VOLTAGE LIGHT SWITCH	OS 'X'	CEILING MOUNTED OCCUPANCY SENSOR. TYPE DENOTED BY ' X '. REFER TO OCCUPANCY SENSOR SCHEDULE
$ 4	4 WAY - LINE VOLTAGE LIGHT SWITCH	OS 'X'	WALL MOUNTED OCCUPANCY SENSOR. TYPE DENOTED BY ' X '. REFER TO OCCUPANCY SENSOR SCHEDULE
$ LV	LOW VOLTAGE LIGHT SWITCH	LC	LIGHTING CONTROL PANEL
$ K	KEY OPERATED LINE VOLTAGE SWITCH	RS	REMOTE STATION WITH PRESET SCENE SELECTION BUTTON
$ MS	MASTER SWITCH	IR	PARTITION POSITION INFRARED SENSOR FOR LIGHTING CONTROL
$ AO	ALL-OFF SWITCH	ALC	AREA LIGHTING CONTROL MODULE
$	SINGLE POLE 347V SWITCH	ARC	LIGHTING AREA/ROOM CONTROLLER
D	DIMMER TYPE TO SUIT LOAD		

NOTE: NOT ALL SYMBOLS APPLY, REFER TO DRAWINGS

3 E010 LIGHTING LEGEND 2 OF 2

KEY PLAN :

REVISION

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
12	2025-04-30	ISSUED FOR CONSTRUCTION

THIS DRAWING IS "ISSUED FOR CONSTRUCTION" AND IS CONSIDERED COMPLEMENTARY TO THE CONTRACT DOCUMENTS. TO THE BEST OF OUR KNOWLEDGE IT IS AN ACCURATE REPRESENTATION OF DOCUMENTED REVISIONS. IN THE CASE OF ANY DISCREPANCY, OMISSION OR CONFLICT BETWEEN THIS "ISSUED FOR CONSTRUCTION" DOCUMENT AND THE CONTRACT DOCUMENTS, THE CONTRACTOR IS TO PROMPTLY BRING IT TO THE ATTENTION OF THE CONSULTANT.

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SEAL :

OWNER:
UNIVERSITY OF TORONTO

PROJECT :
HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

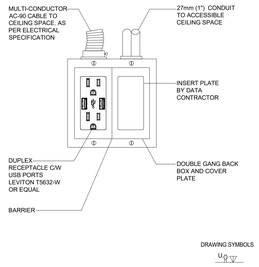
SHEET CONTENTS :
LEGENDS - ELECTRICAL

PROJECT NUMBER :
21590.003

DRAWING SCALE :
NTS.

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

SHEET NO : **E010**
REV : **12**



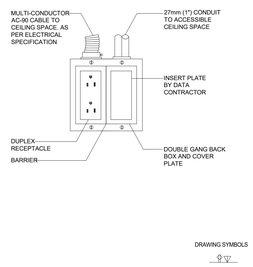
NOTES:

N-1 PROVIDE CONNECTOR, C/W NYLON BUSHINGS FOR CONDUIT TERMINATIONS WITHIN ACCESSIBLE CEILING SPACE.

N-2 PROVIDE PULL STRINGS IN ALL EMPTY CONDUIT.

N-3 COVER PLATES BY DIVISION 26.

5 E03 POWER AND COMMUNICATION OUTLETS
SCALE: NTS



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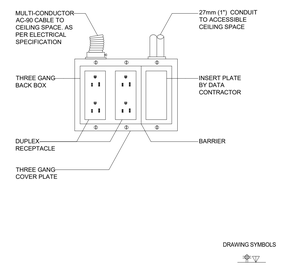
N-2 PROVIDE PULL STRINGS IN ALL EMPTY CONDUIT.

N-3 COVER PLATES BY DIVISION 26.

2 E03 POWER AND COMMUNICATION OUTLETS
SCALE: NTS



NOTES:

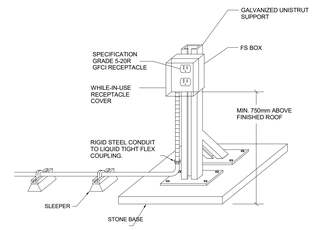
N-1 PROVIDE CONNECTOR, C/W NYLON BUSHINGS FOR CONDUIT TERMINATIONS WITHIN ACCESSIBLE CEILING SPACE.

N-2 PROVIDE PULL STRINGS IN ALL EMPTY CONDUIT.

N-3 COVER PLATES BY DIVISION 26.

1 E02 POWER AND COMMUNICATION OUTLETS
SCALE: NTS

6 E05 TRANSFORMER INSTALLATION DETAIL
SCALE: NTS

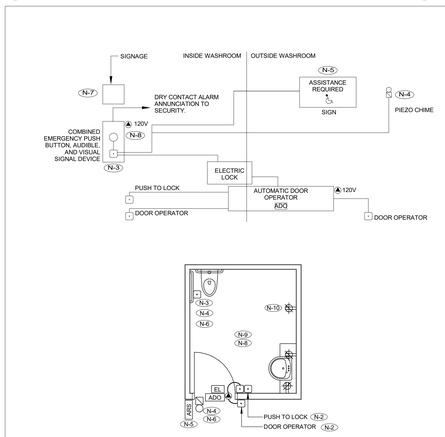


NOTES:

N-1 PROVIDE RECEPTACLE C/W WEATHERPROOF WHILE-IN-USE COVER. RECEPTACLE TO BE MOUNTED ON INDEPENDENTLY SUPPORTED UNISTRUT STANDOFF AS SHOWN ABOVE. PROVIDE LIQUID TIGHT FLEXIBLE CONDUIT WHEN CONDUIT RUN IS OUTDOORS.

N-2 ALL EQUIPMENT AND COMPONENTS TO BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.

7 E05 ROOFTOP MAINTENANCE RECEPTACLE
N.T.S



NOTES

N-1 MINIMUM SIZE CONDUITS SHALL BE 21mmC (3/4") UNLESS OTHERWISE NOTED.

N-2 ALL PUSH BUTTONS ARE TO BE MOUNTED AT 1050mm ABOVE FINISHED FLOOR AND ARE TO BE OPERABLE USING A CLOSED FIST.

N-3 ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL COMBINATION EMERGENCY PUSH BUTTON AND VISUAL SIGNAL DEVICE INSIDE OF WASHROOM. INTEGRAL VISUAL DEVICE TO ACTUATE WHEN EMERGENCY BUTTON IS PRESSED. EMERGENCY BUTTON TO BE MUSHROOM STYLE AND LATCHING TYPE, SUCH THAT VISUAL INDICATION WILL REMAIN ACTIVATED ONCE PRESSED. MUSHROOM STYLE BUTTON TO BE 'TWIST-TO-RELEASE' TYPE TO ALLOW EASE OF TURNING OFF VISUAL INDICATION AFTER WASHROOM OCCUPANT HAS BEEN ASSISTED. PUSH BUTTON TO ALSO ILLUMINATE SPECIAL WORDING SIGNAGE AND ACTIVATE PIEZO CHIME, BUILT AND LOCATED OUTSIDE OF THE WASHROOM. PUSH BUTTON & VISUAL ALARM COMPONENTS TO BE MOUNTED ON STAINLESS STEEL FACEPLATE.

MOUNT COMBINATION DEVICE SUCH THAT THE CENTRE OF THE PUSHBUTTON IS LOCATED AT 1050mm ABOVE FINISHED FLOOR. INTEGRAL VISUAL DEVICE TO BE LIT BY AN LED SOURCE. COMBINATION DEVICE TO BE 24 VOLT DC STYLE FOR EASY INTEGRATION WITH WASHROOM DOOR ELECTRIC STRIKE. WASHROOM DOOR ELECTRIC STRIKE TO BE RELEASED WHEN EMERGENCY BUTTON IS PRESSED TO ALLOW MANUAL ACCESS TO WASHROOM TO PROVIDE ASSISTANCE. DOOR OPERATOR IS NOT TO OPEN DOOR WHEN EMERGENCY BUTTON IS PRESSED.

SUBMIT SHOP DRAWINGS FOR ARCHITECT AND CONSULTANT REVIEW PRIOR TO MANUFACTURING/RELEASE.

N-4 ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL PIEZO CHIME OUTSIDE OUTSIDE OF THE WASHROOM. WHEN THE EMERGENCY BUTTON IS PRESSED, THE PIEZO CHIME IS TO SOUND. CHIME OUTSIDE OF WASHROOM TO HAVE SOUND PRESSURE LEVEL OF 82 DBA AT 3 METERS. CHIME TO BE 24 VOLT DC TYPE. SUBMIT SHOP DRAWINGS OF PIEZO CHIME FOR ARCHITECT AND CONSULTANT REVIEW PRIOR TO MANUFACTURING/RELEASE.

N-5 ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL 'ASSISTANCE REQUIRED' COMPLETE WITH WHEELCHAIR GRAPHIC SPECIAL WORDING SIGNAGE OUTSIDE OF THE WASHROOM. WHEN THE EMERGENCY BUTTON IS PRESSED, THE SIGN IS TO ILLUMINATE. SIGN TO BE 24 VOLT DC TYPE. SUBMIT SHOP DRAWINGS FOR ARCHITECT AND ELECTRICAL CONSULTANT REVIEW PRIOR TO MANUFACTURING/RELEASE. ILLUMINATED SIGN TO BE EMERGILITE OR APPROVED EQUAL.

N-6 ELECTRICAL CONTRACTOR TO PROVIDE ALL CONDUIT, WIRING, POWER SUPPLIES, AND CONNECTIONS DETAILED ABOVE FOR ALL UNIVERSAL WASHROOMS. ALL WIRING TO BE INSTALLED IN CONDUIT.

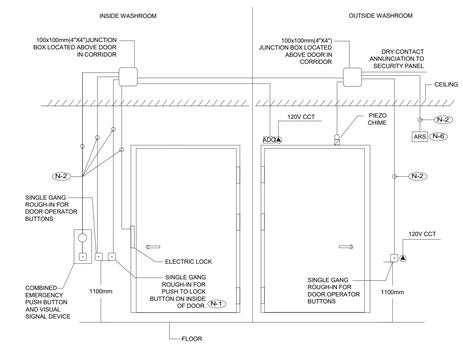
N-7 ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL A LAMACOID SIGN ABOVE THE EMERGENCY BUTTON THAT READS "IN THE EVENT OF AN EMERGENCY PUSH EMERGENCY BUTTON AND AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE". LETTERS ON LAMACOID MUST BE AT LEAST 25mm HIGH WITH A 5mm STROKE. SUBMIT SHOP DRAWING FOR ARCHITECT AND CONSULTANT REVIEW PRIOR TO MANUFACTURING AND RELEASE.

N-8 ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL 24 VOLT DC POWER SUPPLY IN A SEPARATE JUNCTION BOX WITH SUFFICIENT CAPACITY TO POWER ALL EMERGENCY CALL SYSTEM COMPONENTS INCLUDING ALL AUDIBLE AND VISUAL INDICATORS AS WELL AS DOOR ELECTRIC STRIKE RELEASE. ADDITIONALLY, POWER SUPPLY TO HAVE 50%/%% SPARE CAPACITY FOR FUTURE USE. POWER SUPPLY INPUT TO BE 120V.

N-9 REFER TO INTERIOR DESIGNER'S DRAWINGS FOR EXACT DEVICE LOCATIONS.

N-10 NEW 20A , GFI RECEPTACLE FOR ADULT CHANGE TABLE, PROVIDE CIRCUIT FROM NEAREST AVAILABLE BASE-BUILDING PANEL.

3 E05 TYPICAL UNIVERSAL WASHROOM SCHEMATIC AND FLOOR PLAN
SCALE: 1/2"=1'-0"



NOTES:

N-1 PROVIDE ROUGH-IN FOR PUSH PADDLES, DOOR OPENER, ELECTRIC STRIKE, AND JUNCTION BOX COMPLETE WITH EMT AND BLANK COVERPLATES. EQUIPMENT TO BE SUPPLIED AND INSTALLED BY OTHERS.

N-2 3/4" CONDUIT

N-3 REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF PUSH BUTTONS.

N-4 ALL DEVICES ARE BY OTHERS.

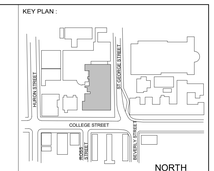
N-5 WIRING FOR ALL DEVICES SUPPLIED BY OTHERS, INSTALLED BY THIS CONTRACTOR.

N-6 ASSISTANCE REQUIRED SIGN.

N-7 REFER TO ARCHITECTURAL DRAWING FOR FINAL DEVICE LOCATION.

4 E05 TYPICAL UIVERSAL WASHROOM DOOR DETAIL
SCALE: N.T.S.

KEY PLAN :



REVISION

NO.	DATE	DESCRIPTION
1	2024-10-04	ISSUED FOR 50%
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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 :
STANDARD DETAILS - ELECTRICAL

PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 100

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

SHEET NO :
E020

REV :
12

PROJECT NAME: UofT Koffler

Project number: 21590.003.E.001

Date: 2024.11.15

FIRE ALARM ZONE SCHEDULE

Zone No.	Alarm	Supervisory	Control/Monitor	Annunciator Label	Description/Note
Alarm Zones					
1				STATION BASEMENT NORTH	EXISTING
2				STATION BASEMENT SOUTH	EXISTING
3				1ST FLOOR NORTH	EXISTING
4				1ST FLOOR SOUTH	EXISTING
5				MEZZANINE NORTH	EXISTING
6				2ND FLOOR NORTH	EXISTING
7				2ND FLOOR SOUTH	EXISTING
8				3RD FLOOR NORTH	EXISTING
9				3RD FLOOR NORTH	EXISTING
10				PENTHOUSE 1 & 2 & CATWALK	EXISTING
11				PENTHOUSE 3	EXISTING
12				SPRINKLER FLOW BASEMENT NORTH	EXISTING
13				SPRINKLER FLOW BASEMENT SOUTH	EXISTING
14				SPRINKLER FLOW 1ST FLOOR NORTH	EXISTING
15				SPRINKLER FLOW 1ST FLOOR SOUTH	EXISTING
16				SPRINKLER FLOW MEZZANINE NORTH	EXISTING
17				SPRINKLER FLOW 2ND FLOOR NORTH	EXISTING
18				SPRINKLER FLOW 2ND FLOOR SOUTH	EXISTING
19				SPRINKLER FLOW 3RD FLOOR NORTH	EXISTING
20				SPRINKLER FLOW 3RD FLOOR SOUTH	EXISTING
21				SPRINKLER FLOW PENTHOUSE 1 & 2	EXISTING
22				SPRINKLER FLOW PENTHOUSE 3 NORTH	EXISTING
23				SPRINKLER FLOW ATRIUM MALL	EXISTING
24				SMOKE DETECTOR SOUTH WEST STAIR	EXISTING
25				SMOKE DETECTOR CENTRE WEST STAIR	EXISTING
26				SMOKE DETECTOR NORTH WEST STAIR	EXISTING
27				SMOKE DETECTOR SOUTH EAST STAIR	EXISTING
28				SMOKE DETECTOR NORTH EAST STAIR	EXISTING
29					EXISTING
30				DUCT SMOKE DETECTOR (SD-1) - R/F-2	EXISTING
31				DUCT SMOKE DETECTOR (SD-2) - R/F-4	EXISTING
32				DUCT SMOKE DETECTOR (SD-3) - R/F-6	EXISTING
33				DUCT SMOKE DETECTOR (SD-4) - R/F-8	EXISTING
34				DUCT SMOKE DETECTOR (SD-5) - R/F-5	EXISTING
35				DUCT SMOKE DETECTOR (SD-6) - R/F-12	EXISTING
36				DUCT SMOKE DETECTOR (SD-7) - R/F-14	EXISTING
37				HEAT DETECTOR ELEVATOR #1 PIT/SHAFT/MACH	EXISTING
38				HEAT DETECTOR ELEVATOR #2 PIT/SHAFT/MACH	EXISTING
39				HEAT DETECTOR ELEVATOR #3 PIT/SHAFT/MACH	EXISTING
40				SPRINKLER FLOW GRND FLOOR BAHEN	EXISTING
41				SPRINKLER FLOW GRND FLOOR KOFFLER WINDOW	EXISTING
42				SPRINKLER FLOW 2ND FLR KOFFLER WINDOW	EXISTING
43				SPRINKLER FLOW 3RD FLR KOFFLER WINDOW	EXISTING
44				VESDA SYSTEM ATRIUM SMOKE DETECTOR PANEL IN ROOM #320	EXISTING
45				BASEMENT SOUTH ELEVATOR 1 MACHINE ROOM	EXISTING
46				1ST FLOOR NORTH ELEVATOR 2 MACHINE ROOM	EXISTING
47				PENTHOUSE 3 ELEVATOR 3 MACHINE ROOM	EXISTING
48				DUCT SMOKE DETECTOR (SD-8) - AHS-1	EXISTING
49				DUCT SMOKE DETECTOR (SD-9) - AHS-2	EXISTING
50				DUCT SMOKE DETECTOR (SD-10) - AHS-3	EXISTING
51				DUCT SMOKE DETECTOR (SD-11) - AHS-5	EXISTING
52				DUCT SMOKE DETECTOR (SD-12) - AHS-6	EXISTING
53				DUCT SMOKE DETECTOR (SD-13) - AHS-7	EXISTING
54				DUCT SMOKE DETECTOR (SD-5) - AHS-5	EXISTING
55				SPRINKLER VALVE MAIN INCOMING	EXISTING
56				SPRINKLER VALVE MAIN NORTH	EXISTING
57				SPRINKLER VALVE MAIN NORTH	EXISTING
58				SPRINKLER VALVE BASEMENT SOUTH	EXISTING
59				SPRINKLER VALVE BASEMENT NORTH	EXISTING
60				SPRINKLER VALVE 1ST FLOOR NORTH	EXISTING

Zone No.	Alarm	Supervisory	Control/Monitor	Annunciator Label	Description/Note
Alarm Zones					
61				SPRINKLER VALVE MALL	EXISTING
62				SPRINKLER VALVE 1ST FLOOR SOUTH	EXISTING
63				SPRINKLER VALVE MEZZANINE NORTH	EXISTING
64				SPRINKLER VALVE 2ND FLOOR NORTH	EXISTING
65				SPRINKLER VALVE 2ND FLOOR SOUTH	EXISTING
66				SPRINKLER VALVE 3RD FLOOR NORTH	EXISTING
67				SPRINKLER VALVE 3RD FLOOR SOUTH	EXISTING
68				SPRINKLER VALVE PENTHOUSE 1 & 2	EXISTING
69				SPRINKLER VALVE PENTHOUSE 3	EXISTING
70				STANDPIPE VALVE RISER 1	EXISTING
71				STANDPIPE VALVE RISER 2	EXISTING
72				STANDPIPE VALVE RISER 3	EXISTING
73				STANDPIPE VALVE RISER 4	EXISTING
74				STANDPIPE VALVE BOOSTER PUMP INLET	EXISTING
75				STANDPIPE VALVE BOOSTER PUMP OUTLET	EXISTING
76				DOMESTIC & STANDPIPE MAIN FEED	EXISTING
77				SPRINKLER LOW PRESSURE MAIN SOUTH	EXISTING
78				SPRINKLER LOW PRESSURE MAIN NORTH	EXISTING
79				STANDPIPE LOW PRESSURE BOOSTER PUMP SUCTION	EXISTING
80				STANDPIPE LOW PRESSURE BOOSTER PUMP DISCHARGE	EXISTING
81				STANDPIPE POWER LOSS EXCESS PRESSURE PUMP	EXISTING
82				SPRINKLER VALVE GRND FLR KOFFLER WINDOW	EXISTING
83				SPRINKLER VALVE 2ND FLR KOFFLER WINDOW	EXISTING
84				SPRINKLER VALVE 3RD FLR KOFFLER WINDOW	EXISTING
85				MAIN WATER INCOMING STANDPIPE	EXISTING
86				STANDPIPE DOUBLE CHECK VALVE INLET	EXISTING
87				STANDPIPE DOUBLE CHECK VALVE OUTLET	EXISTING
88				STANDPIPE DOUBLE CHECK VALVE INLET	EXISTING
89				STANDPIPE DOUBLE CHECK VALVE OUTLET	EXISTING
90				VESDA SYSTEM TROUBLE PANEL IN ROOM #320	EXISTING
91				BAHEN ALARM	EXISTING
92	X			**FAZ1 - BASEMENT NEW ELEVATOR PIT/SHAFT**	**DEVICE**
93	X			**FAZ2 - 3F FIRE SHUTTERS**	**DEVICE**
94	X			**FAZ3 - GND FLR KITCHEN HOOD SUPPRESSION SYSTEM**	**DEVICE**
95	X			**FAZ4 - GRD FLOOR IT ROOM #122**	**DEVICE**
96	X			**FAZ5 - GND FLOOR ELECTRICAL ROOM #107B**	**DEVICE**
97	X			**FAZ6 - GND FLOOR ELECTRICAL CLOSET**	**DEVICE**
98	X			**FAZ7 - 2ND FLOOR ELECTRICAL CLOSET #231B**	**DEVICE**
99	X			**FAZ8 - 2ND FLOOR IT CLOSET #231B**	**DEVICE**
100	X			**FAZ9 - 2ND FLOOR IT CLOSET #238**	**DEVICE**
101	X			**FAZ10 -2ND FLOOR ELECTRICAL CLOSET #274**	**DEVICE**
102	X			**FAZ11 - 2ND FLOOR IT ROOM #277**	**DEVICE**
103	X			**FAZ12 - 2ND FLOOR ELECTRICAL CLOSET #276**	**DEVICE**
104	X			**FAZ11 - 3RD FLOOR ELECTRICAL CLOSET**	**DEVICE**
105	X			**FAZ14 - 3RD FLOOR SOUTH ELEVATOR LOBBY (EX)**	**DEVICE**
106	X			**FAZ15 - 3RD FLOOR SOUTH MECHANICAL ROOM**	**DEVICE**
107	X			**FAZ16 - 3RD FLOOR ELEC. CLOSET**	**DEVICE**
108	X			**FAZ17 - 3RD FLOOR ELEVATOR MACHINE ROOM**	**DEVICE**
109	X			**FAZ18 - 3RD FLOOR ELECTRICAL ROOM #372**	**DEVICE**
110		X		**FAZ19 - SUPERVISORY 2F FIRE HOSE CABINET**	**DEVICE**
111	X			**FAZ20 - 3RD FLOOR IT CLOSET #399C**	**DEVICE**
112		X		**FAZ21 - SUPERVISORY 2F FIRE HOSE CABINET**	**DEVICE**
113					
114					
115					
116					
117					
118					
119					
120					

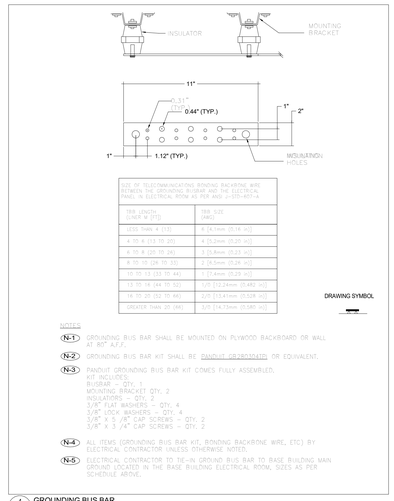
Auxiliary Control/Monitoring points

1			X	**ELEV. CTRL FA MACHINE ROOM STATUS**	**Aux. Contact (Control)**	7			X	**FIRE SHUTTER RELEASE**	**Aux. Contact (Control)**
2			X	**ELEV. CTRL FA RECALL FLOOR STATUS**	**Aux. Contact (Control)**	8					
3			X	**ELEV. CTRL FA ALT RECALL FLOOR STATUS**	**Aux. Contact (Control)**	9					
4			X	**ELEV. CTRL FA TOP OF SHAFT STATUS**	**Aux. Contact (Control)**	10					
5			X	**ELEV. CTRL FA PIT DETECTOR STATUS**	**Aux. Contact (Control)**	11					
6			X	**ELEVATOR RECALL**	**Aux. Contact (Control)**	12					

Notes:

1. All existing zones are to remain denoted as light/greyed out zones
2. Submit fire alarm zones graphic showing existing and new zones for review and approval.
3. Provide typed, updated zone schedules on main fire alarm control panel as well as annunciator panels as required.
4. New zones are denoted in bold.

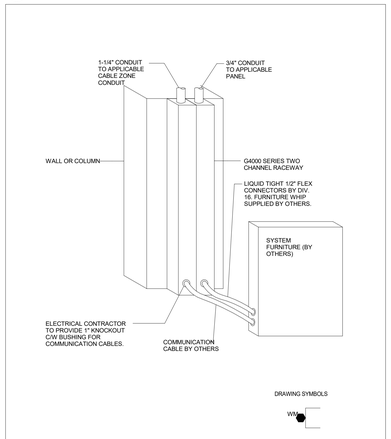
6 E021 FIRE ALARM ZONE SCHEDULE
SCALE: NTS



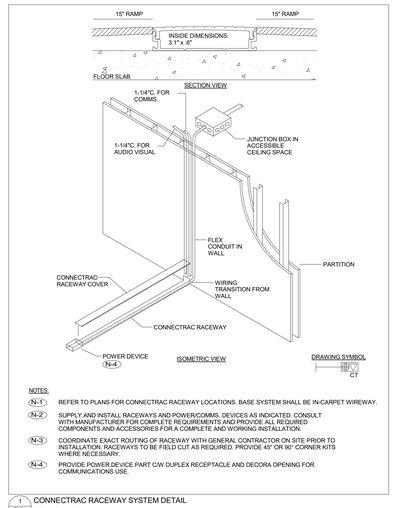
19ft LENGTH (LINEAR M (FT))	19ft SIZE (AWG)
LESS THAN 4 (13)	6 (4.1mm (0.16 in))
4 TO 6 (13 TO 20)	4 (5.2mm (0.20 in))
6 TO 8 (20 TO 26)	3 (5.8mm (0.23 in))
8 TO 11 (26 TO 33)	2 (6.5mm (0.26 in))
11 TO 13 (33 TO 44)	1 (7.4mm (0.29 in))
13 TO 16 (44 TO 52)	1/0 (12.24mm (0.482 in))
16 TO 20 (52 TO 66)	2/0 (13.41mm (0.528 in))
GREATER THAN 20 (66)	3/0 (14.73mm (0.580 in))

NOTES:
N-1 GROUNDING BUS BAR SHALL BE MOUNTED ON PLYWOOD BACKBOARD OR WALL AT, BOT. A.F.F.
N-2 GROUNDING BUS BAR KIT SHALL BE PANDUIT CORPORATION OR EQUIVALENT.
N-3 PANDUIT GROUNDING BUS BAR KIT COMES FULLY ASSEMBLED. KIT INCLUDES:
BUSBAR – QTY. 1
MOUNTING BRACKET QTY. 2
INSULATORS – QTY. 2
3/8" FLAT WASHERS – QTY. 4
3/8" LOCK WASHERS – QTY. 4
3/8" X 5 /8" CAP SCREWS – QTY. 2
3/8" X 3 /4" CAP SCREWS – QTY. 2
N-4 ALL ITEMS (GROUNDING BUS BAR KIT, BONDING BACKBONE WIRE, ETC) BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
N-5 ELECTRICAL CONTRACTOR TO TIE-IN GROUND BUS BAR TO BASE BUILDING MAIN GROUND LOCATED IN THE BASE BUILDING ELECTRICAL ROOM. SIZES AS PER SCHEDULE ABOVE.

4 E021 GROUNDING BUS BAR
SCALE: NTS

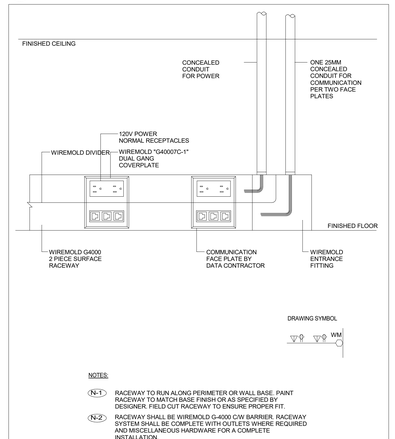


5 E021 FURNITURE SYSTEM CONNECTION - WIREMOLD
SCALE: NTS



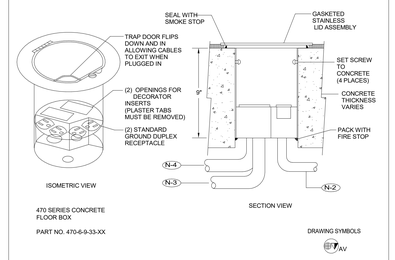
NOTES:
N-1 REFER TO PLANS FOR CONNECTRAC RACEWAY LOCATIONS. BASE SYSTEM SHALL BE IN-CARPET WIREWAY.
N-2 SUPPLY AND INSTALL RACEWAYS AND POWER/COMMS. DEVICES AS INDICATED. CONSULT WITH MANUFACTURER FOR COMPLETE REQUIREMENTS AND PROVIDE ALL REQUIRED COMPONENTS AND ACCESSORIES FOR A COMPLETE AND WORKING INSTALLATION.
N-3 COORDINATE EXACT ROUTING OF RACEWAY WITH GENERAL CONTRACTOR ON SITE PRIOR TO INSTALLATION. RACEWAYS TO BE FIELD CUT AS REQUIRED. PROVIDE 45° OR 90° CORNER KITS WHERE NECESSARY.
N-4 PROVIDE POWER DEVICE PART C/W DUPLEX RECEPTACLE AND DECORA OPENING FOR COMMUNICATIONS USE.

1 E021 CONNECTRAC RACEWAY SYSTEM DETAIL
SCALE: NTS



NOTES:
N-1 RACEWAY TO RUN ALONG PERIMETER OR WALL BASE. PAINT RACEWAY TO MATCH BASE FINISH OR AS SPECIFIED BY DESIGNER. FIELD CUT RACEWAY TO ENSURE PROPER FIT.
N-2 RACEWAY SHALL BE WIREMOLD G-4000 C/W BARRIER. RACEWAY SYSTEM SHALL BE COMPLETE WITH OUTLETS WHERE REQUIRED AND MISCELLANEOUS HARDWARE FOR A COMPLETE INSTALLATION.

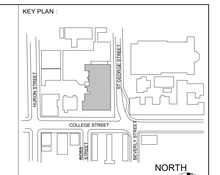
2 E021 TYPICAL TWO COMPARTMENT WIREMOLD RACEWAY
SCALE: NTS



NOTES:
N-1 FLUSH QUAD POKE-THRU C/W 2 DUPLEX RECEPTACLES AND 2 DECORA OPENINGS FOR COMMUNICATIONS AND AUDIO VISUAL USE. COORDINATE EXACT LOCATIONS WITH INTERIOR DESIGNER AND CONSULTANT PRIOR TO INSTALLATION.
N-2 3/4" POWER CONDUIT TO APPLICABLE PANEL.
N-3 1" EMPTY CONDUIT C/W PULL STRING TO ACCESSIBLE CEILING SPACE ON SAME FLOOR FOR VOICE/DATA CABLING.
N-4 1-1/4" EMPTY CONDUIT C/W PULL STRING TO ACCESSIBLE CEILING SPACE OR AUDIO VISUAL DEVICE ON SAME FLOOR FOR AUDIO VISUAL CABLING.
N-5 REFER TO FLOOR PLANS FOR QUANTITIES OF POKE-THRU OUTLETS.
N-6 THE POKE-THRU SHALL BE A 470 SERIES CONCRETE FLOOR BOX 470-6-9-33-XX AS MANUFACTURED BY WELLMARK ELECTRIC C/W ALL ACCESSORIES.
N-7 INSTALLATION REQUIRES A 6" CORE DRILL. ALLOW FOR X-RAY AND CORING IN ACCORDANCE WITH BUILDING STANDARDS.
N-8 MATERIALS: LID ASSEMBLY IS CONSTRUCTED OF 1/8" STAINLESS STEEL. BODY* 12 GA AND 16 GA NICKEL COATED STEEL.

3 E021 QUAD POKE-THROUGH POWER/DATA/AUDIO VISUAL OUTLET
SCALE: NTS

KEY PLAN :



REVISION

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
12	2025-04-30	ISSUED FOR CONSTRUCTION

THIS DRAWING IS "ISSUED FOR CONSTRUCTION" AND IS CONSIDERED COMPLEMENTARY TO THE CONTRACT DOCUMENTS. TO THE BEST OF OUR KNOWLEDGE IT IS AN ACCURATE REPRESENTATION OF DOCUMENTED REVISIONS. IN THE CASE OF ANY DISCREPANCY, OMISSION OR CONFLICT BETWEEN THIS "ISSUED FOR CONSTRUCTION" DOCUMENT AND THE CONTRACT DOCUMENTS, THE CONTRACTOR IS TO PROMPTLY BRING IT TO THE ATTENTION OF THE CONSULTANT.

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SEAL :

OWNER:
UNIVERSITY OF TORONTO

PROJECT :
HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

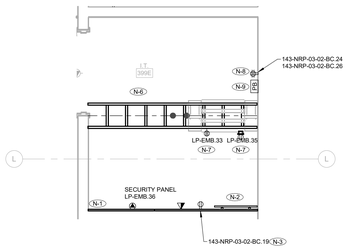
214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :
STANDARD DETAILS - ELECTRICAL

PROJECT NUMBER :
21590.003
DRAWING SCALE :
1 : 100

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

SHEET NO :
E021
REV :
12



4 E022 I.T. CLOSET 399E LAYOUT
SCALE: 1:25

DRAWING NOTES:

N-1 3/4"T X 8'H X 4'W FIRE RATED PLYWOOD BACKBOARD PAINTED WITH TWO (2) COATS OF NON-CONDUCTIVE FIRE RETARDANT WHITE PAINT.

N-2 TELECOMMUNICATION GROUNDING BUSBAR (T.G.B.) MOUNTED AT THE TOP OF THE BACKBOARD . BONDING OF RACKS TO THE BUS BAR SHALL BE BY COMMUNICATIONS CONTRACTOR.

N-3 ONE (1) 5-20R DUPLEX RECEPTACLE AND TWO DATA CABLES ON DECORA OUTLET FOR MISCELLANEOUS USE (BY COMMUNICATIONS CONTRACTOR) (TYP).

N-4 NOT USED.

N-5 NOT USED.

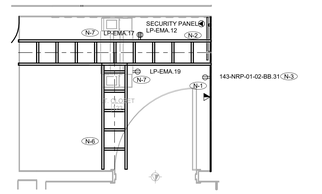
N-6 12" X 4" OVERHEAD CABLE TRAY (LADDER) FOR COMMUNICATIONS, INSTALLED APPROXIMATELY 8' ABOVE FINISHED FLOOR. PROVIDE WATERFALL ACCESSORY TO DRESS CABLING. (TYP).

N-7 ONE (1) L5-30R AND ONE (1) 5-15R RECEPTACLES ON CABLE TRAY (BY ELECTRICAL) (TYP).

N-8 ONE (1) QUAD RECEPTACLED FOR AV EQUIPMENT.

N-9 SUITABLY SIZED PULL BOX FOR REQUIRED CONDUITS. REFER TO AV DRAWINGS FOR ADDITIONAL INFORMATION.

N-10 COORDINATE POWER CONNECTION REQUIREMENTS AND LOCATIONS PRIOR TO ROUGH-IN.



1 E022 I.T. CLOSET 122 LAYOUT
SCALE: 1:25

DRAWING NOTES:

N-1 3/4"T X 8'H X 4'W FIRE RATED PLYWOOD BACKBOARD PAINTED WITH TWO (2) COATS OF NON-CONDUCTIVE FIRE RETARDANT WHITE PAINT.

N-2 TELECOMMUNICATION GROUNDING BUSBAR (T.G.B.) MOUNTED AT THE TOP OF THE BACKBOARD . BONDING OF RACKS TO THE BUS BAR SHALL BE BY COMMUNICATIONS CONTRACTOR.

N-3 ONE (1) 5-20R DUPLEX RECEPTACLE AND TWO DATA CABLES ON DECORA OUTLET FOR MISCELLANEOUS USE (BY COMMUNICATIONS CONTRACTOR) (TYP).

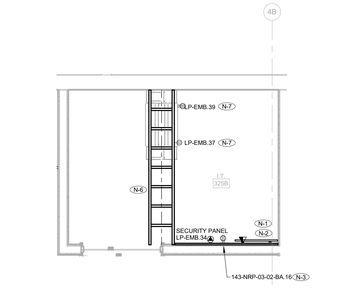
N-4 NOT USED.

N-5 NOT USED.

N-6 12" X 4" OVERHEAD CABLE TRAY (LADDER) FOR COMMUNICATIONS, INSTALLED APPROXIMATELY 8' ABOVE FINISHED FLOOR. PROVIDE WATERFALL ACCESSORY TO DRESS CABLING. (TYP).

N-7 ONE (1) L5-30R AND ONE (1) 5-15R RECEPTACLES ON CABLE TRAY (BY ELECTRICAL) (TYP).

N-8 COORDINATE POWER CONNECTION REQUIREMENTS AND LOCATIONS PRIOR TO ROUGH-IN.



5 E022 I.T. 325B LAYOUT
SCALE: 1:25

DRAWING NOTES:

N-1 3/4"T X 8'H X 4'W FIRE RATED PLYWOOD BACKBOARD PAINTED WITH TWO (2) COATS OF NON-CONDUCTIVE FIRE RETARDANT WHITE PAINT.

N-2 TELECOMMUNICATION GROUNDING BUSBAR (T.G.B.) MOUNTED AT THE TOP OF THE BACKBOARD . BONDING OF RACKS TO THE BUS BAR SHALL BE BY COMMUNICATIONS CONTRACTOR.

N-3 ONE (1) 5-20R DUPLEX RECEPTACLE AND TWO DATA CABLES ON DECORA OUTLET FOR MISCELLANEOUS USE (BY COMMUNICATIONS CONTRACTOR) (TYP).

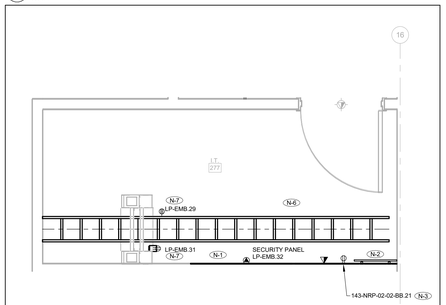
N-4 NOT USED.

N-5 NOT USED.

N-6 12" X 4" OVERHEAD CABLE TRAY (LADDER) FOR COMMUNICATIONS, INSTALLED APPROXIMATELY 8' ABOVE FINISHED FLOOR. PROVIDE WATERFALL ACCESSORY TO DRESS CABLING. (TYP).

N-7 ONE (1) L5-30R AND ONE (1) 5-15R RECEPTACLES ON CABLE TRAY (BY ELECTRICAL) (TYP).

N-8 COORDINATE POWER CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.



2 E022 I.T. 277 LAYOUT
SCALE: 1:25

DRAWING NOTES:

N-1 3/4"T X 8'H X 4'W FIRE RATED PLYWOOD BACKBOARD PAINTED WITH TWO (2) COATS OF NON-CONDUCTIVE FIRE RETARDANT WHITE PAINT.

N-2 TELECOMMUNICATION GROUNDING BUSBAR (T.G.B.) MOUNTED AT THE TOP OF THE BACKBOARD . BONDING OF RACKS TO THE BUS BAR SHALL BE BY COMMUNICATIONS CONTRACTOR.

N-3 ONE (1) 5-20R DUPLEX RECEPTACLE AND TWO DATA CABLES ON DECORA OUTLET FOR MISCELLANEOUS USE (BY COMMUNICATIONS CONTRACTOR) (TYP).

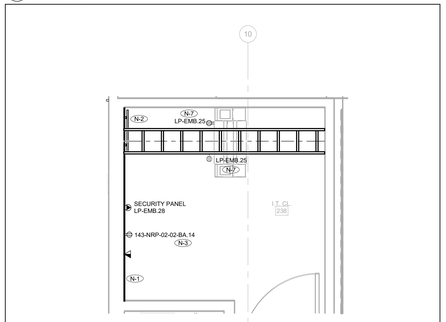
N-4 NOT USED.

N-5 NOT USED.

N-6 12" X 4" OVERHEAD CABLE TRAY (LADDER) FOR COMMUNICATIONS, INSTALLED APPROXIMATELY 8' ABOVE FINISHED FLOOR. PROVIDE WATERFALL ACCESSORY TO DRESS CABLING. (TYP).

N-7 ONE (1) L5-30R AND ONE (1) 5-15R RECEPTACLES ON CABLE TRAY (BY ELECTRICAL) (TYP).

N-8 COORDINATE POWER CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.



3 E022 I.T. CL 238 LAYOUT
SCALE: 1:25

DRAWING NOTES:

N-1 3/4"T X 8'H X 4'W FIRE RATED PLYWOOD BACKBOARD PAINTED WITH TWO (2) COATS OF NON-CONDUCTIVE FIRE RETARDANT WHITE PAINT.

N-2 TELECOMMUNICATION GROUNDING BUSBAR (T.G.B.) MOUNTED AT THE TOP OF THE BACKBOARD . BONDING OF RACKS TO THE BUS BAR SHALL BE BY COMMUNICATIONS CONTRACTOR.

N-3 ONE (1) 5-20R DUPLEX RECEPTACLE AND TWO DATA CABLES ON DECORA OUTLET FOR MISCELLANEOUS USE (BY COMMUNICATIONS CONTRACTOR) (TYP).

N-4 NOT USED.

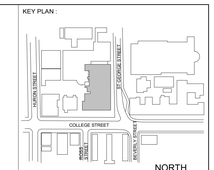
N-5 NOT USED.

N-6 12" X 4" OVERHEAD CABLE TRAY (LADDER) FOR COMMUNICATIONS, INSTALLED APPROXIMATELY 8' ABOVE FINISHED FLOOR. PROVIDE WATERFALL ACCESSORY TO DRESS CABLING. (TYP).

N-7 ONE (1) L5-30R AND ONE (1) 5-15R RECEPTACLES ON CABLE TRAY (BY ELECTRICAL) (TYP).

N-8 COORDINATE POWER CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.

KEY PLAN :



REVISION

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
10	2025-03-25	BID ADDENDUM #04
12	2025-04-30	ISSUED FOR CONSTRUCTION

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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 :
IT/LAN ROOM PLANS

PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 25

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

SHEET NO :
E022

REV :
12

Classified

Section 26 06 05.16 - LUMINAIRE SCHEDULE
Project Name:
Project number:

File Name: Koffler Luminaire Schedule_21.03.2025'

Smith + Andersen

TYPE	VOLT.	LAMP(S)	DIMENSIONS	DESCRIPTION	DRIVERS/POWER SUPPLY	MANUFACTURER/CATALOGUE NUMBER	MINIMUM PERFORMANCE REQUIRED (DELIVERED)	LOCATED
LED: AMBIENT / GENERAL PURPOSE LIGHTING								
L1	120V	LED 10W/ft 3500 K 90 CRI	W: 3.5" H: 4" L: Varies.	**Suspended 2" Direct LED Linear With Diffuse Lens.** Row mounted installation in various lengths. Extruded aluminum housing. White, black, and grey finishes are standard. Regressed opalized lens for minimization of glare and diffuse lighting optic. To be suspended using aircraft cable and recessed canopy. Certified to UL and CUL standards. **Architect to confirm finishes and mounting heights prior to ordering.**	0-10V dimming driver	**Edison /** ED VECTOR 2+ (10W-DD-120V-DL-SX-OR-xx-35K/90CRI)	1030 lumens/ft	**Wood Slat Ceilings**
L1A	120V	LED 10W/ft 3500 K 90 CRI	W: 2.56" H: 2.75" L: Varies.	**Recessed 2" Direct LED With Diffuse Lens and Trim.** Row mounted installation in various lengths. Extruded aluminum housing. White, black, and grey finishes are standard. Regressed opalized lens for minimization of glare and diffuse lighting optic. Certified to UL and CUL standards. **Architect to confirm finishes prior to ordering.**	0-10V dimming driver	**Edison /** ED VECTOR+ (10W-DD-120V-DL-RS-OP-xx-35K/90CRI)	1030 lumens/ft	**Drywall Ceilings**
L1B	120V	LED 10W/ft 3500 K 90 CRI	W: 2.56" H: 2.75" L: Varies.	**Recessed 2" Direct LED With Diffuse Lens and Trim - Continuous Pattern.** Row mounted installation in various lengths. Extruded aluminum housing. White, black, and grey finishes are standard. Regressed opalized lens for minimization of glare and diffuse lighting optic. Certified to UL and CUL standards. Architect to confirm finishes prior to ordering.	0-10V dimming driver	**Edison /** ED VECTOR+ (10W-DD-120V-DL-RS-OP-xx-35K/90CRI)	1030 lumens/ft	**Feature Corridor**
L2	UNV	LED 11W 3500 K 90 CRI	Dia: 5" H: 5/8"	**5" Round Surface-Mounted Slim LED Downlight.** 5/8" profile appears recessed. Installs into most standard j-boxes. One piece flange injection molded white (aluminum or black finish available). High transmittance diffuse lens. Non-conductive fixture for shower light applications. Certified to UL and CUL standards. Energy Star Certified. Damp Location Rated. **Architect to confirm finishes prior to ordering.**	0-10V dimming driver	**Lightolier /** SlimSurface (S5R-9-35K-7-xx-Z10U)	650 lumens	**Corridors**
L3	UNV	LED 42 W 3500 K 90 CRI	W: 2' L: 4' H: 2.25"	**Slim 2'x4' Flat Panel LED with Configurable CTT.** Robust die-formed steel back plate to ensure durability. Aluminum frame weld and ground for seamless appearance. Certified to UL and CUL standards. Damp Location Rated. **Architect to confirm finishes and mounting kit prior to ordering.**	0-10V dimming driver	**Metalux /** CGTX Panel (24-CGTX-55HE-L935-HCD)	2364 lumens	**T-Bar Ceiling**
L3A	UNV	LED 40 W 3500 K 90 CRI	W: 1' L: 4' H: 2.25"	**Slim 1'x4' Flat Panel LED with Configurable CCT.** Robust die-formed steel back plate to ensure durability. Aluminum frame weld and ground for seamless appearance. Certified to UL and CUL standards. Damp Location Rated. **Architect to confirm finishes and mounting kit prior to ordering.**	0-10V dimming driver	**Metalux /** CGTX Panel (14-CGTX-70HE-L935-HCD)	4252 lumens	**T-Bar Ceiling**
L3B	UNV	LED 53 W 3500 K 90 CRI	W: 2' L: 2' H: 2.25"	**Slim 2'x2' Flat Panel LED with Configurable CCT.** Robust die-formed steel back plate to ensure durability. Aluminum frame weld and ground for seamless appearance. Certified to UL and CUL standards. Damp Location Rated. **Architect to confirm finishes and mounting kit prior to ordering.**	0-10V dimming driver	**Metalux /** CGTX Panel (22-CGTX-45HE-L935-HCD)	5583 lumens	**T-Bar Ceiling**
L4	120V	LED 10 W 3500 K 90 CRI	W:7.09" H: 6" L:7.09"	**Adjustable Recessed Square LED Downlight.** High efficiency metalized integral reflector. Spot 25 degree beam optic. Adjustable trim assembly can be tilted up to 25 degrees in both directions. Suitable for recessed non insulated ceilings and dry locations. **Certified to CSA and UL Standards. Architect to confirm finishes prior to**	0-10V dimming driver	**Edison /** TS+ (1x-Single-10W-DD-120V-DL-RT-SP-xx-35K/90CRI)	1050 lumens	**Elevator Lobby**
L5	24V	LED 6.2 W/ft 3500 K 90 CRI	W:16 mm H: 13.8 mm L: Varies	**Linear LED Cove Light Strip.** Opalized lens for diode-free illumination. Seamless snap-together installation. IP20 rated for damp locations. Closet approved. 120 degree diffuse beam angle. Aluminum finish. Certified to UL and CUL standards.	0-10V dimming driver	**Feelux /** FLX Stix HDPro (HDP-35K-C90-SF-STD-V-xx-HW-FDC)	408 lumens/ft	**Cove / Under Cabinet**

Classified

Section 26 06 05.16 - LUMINAIRE SCHEDULE
Project Name:
Project number:

File Name: Koffler Luminaire Schedule_21.03.2025'

Smith + Andersen

TYPE	VOLT.	LAMP(S)	DIMENSIONS	DESCRIPTION	DRIVERS/POWER SUPPLY	MANUFACTURER/CATALOGUE NUMBER	MINIMUM PERFORMANCE REQUIRED (DELIVERED)	LOCATED
L6	24 V	LED 4.4 W/ft 3500 K 90 CRI	W:15 mm H: 15 mm L: Varies	Bendable LED Cove Light Tape. Opalized lens for diode free illumination. UV resistant silicon material. Dual Bend. Field Cuttable. 120 degree light output. Maximum length of 5m. IP65 with field termination.	0-10V dimming driver	Feelux / FN 3D - 35K-C90-xx-EXL-FLEX-HW-0-10V-120V	258 Lumens/ft	**Smudging Room**
L7	100-277 VAC	LED 52 W 4000 K 90 CRI	W:1.57" H:1.97" L: 47.75"	**Linear 100x100 Degree LED Grazer**. Extruded anodized aluminum housing with white powder-coated finish. Polycarbonate lens. Fixtures are connected end-to-end. Rated IP20 for Dry/Damp Locations. Certified to UL to cUL standards. **To be mounted on custom bracket.**	DMX remote dimming driver	**ColorKinetics /** Pure Style Intelli-tue Powercore 100x100 (123-000025-03)	2600 lumens	**LEVEL 3 Truss Ceiling**
L8	UNV	LED 6.8 W 3500 K (selectable) 90 CRI	W: 4.37" H: 0.42" L: 18"	**Surface Mounted LED Under Cabinet Lighting**. Fixture has 5 selectable temperatures from 2700K-5000K. Extruded aluminum housing and color-matched end **caps with a sleek over-all height of only 3/4". UL and cUL certified. Damp location rated. Architect to confirm fixture finishes prior to ordering.**	ELV/TRIAC dimming driver with Integral Switching	Halo / HU30M-SCTD-18-P-x		**Under Cabinet - Sinks**
L9	UNV	LED 19.8 W 3500 K 95 CRI	Dia: 4.92" H: 8.66"	**Narrow Beam LED Surface Mounted Cylinder**. Faceted and smooth reflector with an 18 degree beam optic. Extruded aluminum cylinder housing. Monopoint surface mounted connection. UL listed. Architect to confirm finishes prior to ordering.	0-10V remote dimming driver	**Senso** / Leto 11 (SM-20-35K-F18-NA-xx)	1917 lumens	**LEVEL 3 Truss Ceiling**
LED: EXTERIOR LIGHTING								
G1	120V	LED 21 W 3500 K 80 CRI	W: 3.94" H: 3.94" L: 10.63"	**Outdoor LED Wall-Mount.** IP66, Class 1, IKO8. Marine-grade die-cast aluminum alloy housing. Safety glass lens. Rectangular asymetric Type II optic. ADA compliant. Architect to confirm finishes prior to ordering.	0-10V integral dimming driver	**WE-EF /** RLS420 131-9982	1397 lumens	**Exterior Lighting**
G2	120V	LED 5.6 W 3500 K 80 CRI	W: 3.94" H: 3.62" L: 9.84"	**Outdoor LED Step-Light.** IP66, Class 1, IKO8. Marine-grade die-cast aluminum alloy housing. Safety glass lens. Rectangular asymetric Type II optic. ADA compliant. Architect to confirm finishes prior to ordering.	0-10V remote dimming driver	**WE-EF /** STI259-LDL18 1130-0405	178 lumens	**Exterior Lighting**
LED: EMERGENCY LIGHTING								
B	UNV	LED 84 W 3500 K >80 CRI	W: 15-13/64" H: 5-3/4" L: See Architectural Drawings (2' fixtures connected end-to-end)	**2' Tamper Resistant LED Vaportite connected end to end .** Compact and durable fiberglass reinforced polyester housing. Frosted lens made from high impact polycarbonate. Wet location and rated up to IP69 and NEMA 4X. High performance efficacy. **NOTE: Three fixtures to be connected end to end.**	Emergency Only	**Cooper /** VRVT4S-12-DRF-UNV-EL10W-2-WL	12000 lumens	**Elevator Pit**

NOTES:-

1. All luminaires need to be consistent on technology and must match reference standard description regardless of catalogue number. Where finishes are not indicated, allow for special finish. Manufacturer/Catalogue number not listed will not be considered.

2. The Electrical Contractor is responsible for the supply and installation of all fixed per unit cost luminaires as part of the base electrical contract. The Electrical Contractor is responsible for the installation of all cash allowance luminaires as part of the base electrical contract. Refer to specification 16505 or 26 51 13.00 for more details.

3. LEDs are to be latest technology to proved maximum lumens, binned, best colour and longest life at time of purchase. Drivers are to be the latest technology at time of purchase.

4. LED luminaire dimensions listed are the maximum size allowed. Luminaires provided can be smaller than the dimension listed.

5. All luminaire diameters and depths listed are the maximum size allowed. Luminaires provided can be smaller than the dimension listed.

6. All LED luminaires that present signs of failure on site, within the warranty period, must be replaced at no cost to the owner. If temporary luminaires are required to replace any failed LED luminaires, during the waiting time for parts (i.e. drivers, boards, heat sinks, etc.), the labour cost including installation, temporary luminaire supply, temporary luminaire removal and reinstallation of the LED fixture must be provided at no cost of the owner. Additional electrical costs, associated with higher wattage temporary luminaires, must be reimbursed with interest to the owner by the manufacturer.

Classified

Section 26 06 05.16 - LUMINAIRE SCHEDULE
Project Name:
Project number:

File Name: Koffler Luminaire Schedule_21.03.2025'

Smith + Andersen

TYPE	VOLT.	LAMP(S)	DIMENSIONS	DESCRIPTION	DRIVERS/POWER SUPPLY	MANUFACTURER/CATALOGUE NUMBER	MINIMUM PERFORMANCE REQUIRED (DELIVERED)	LOCATED

7. In case of failure of an LED luminaire, whether complete failure or partial failure, a independent third party testing Laboratory (approved by Smith + Andersen) shall be commissioned by the manufacturer or vendor to perform tests on samples taken from the failed luminaires installed on corresponding site. All reporting including the test results must be submitted to Smith + Andersen for evaluation and final approval.

8. Any additional time (related to luminaire manufacturing issues) spent by Smith + Andersen will be billed at our hourly rates to the manufacturer or vendor..

9. All LED parts and accessories must be replaceable on site without removal of the luminaire.

10. Equivalents will only be considered at Smith + Andersen discretion prior to tender close. Sample must be supplied with plug and cord for mock-up.

11. When a mock-up is requested, the full order of luminaires are on hold until approval and verification of the mock-up findings.

12. Poles and bases are to be designed to accommodate wind conditions to avoid damage due to wind-induced vibrations. Shop Drawings are to be signed by a structural engineer registered in the local jurisdiction.

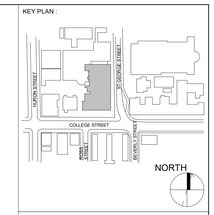
13. Alternates are acceptable for all luminaires under the Ambient / General Purpose Lighting and Landscape / Exterior - General Purpose sections.

14. Alternates are not acceptable for all luminaires under the Specialty / Decorative / High Performance or Landscape / Exterior - Specialty / Decorative / High Performance sections.

15. Be responsible for providing the required quantity of LED drivers to suit the luminaire layout shown on the Drawings.

16. Where continuous LED linear luminaires cross from interior to exterior spaces, provide separate drivers for the interior and exterior portions of the continuous run.

KEY PLAN :



REVISION

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
10	2025-03-25	BID ADDENDUM #04
12	2025-04-30	ISSUED FOR CONSTRUCTION

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SEAL :

OWNER:
UNIVERSITY OF TORONTO

PROJECT :
HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

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TORONTO, ON M5T 3A1

SHEET CONTENTS :
LUMINAIRE SCHEDULE

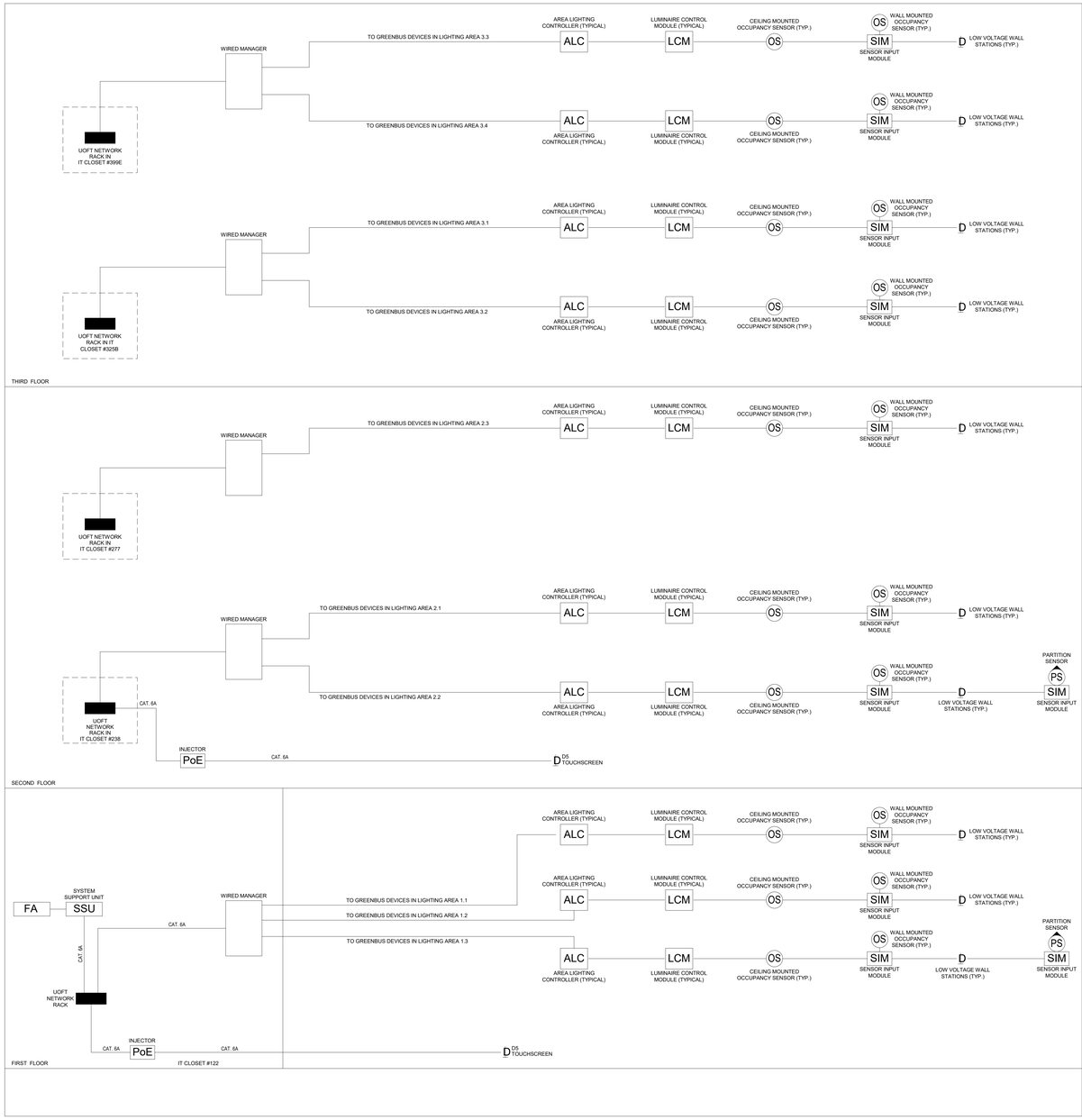
PROJECT NUMBER :
21590.003
DRAWING SCALE :

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

SHEET NO : **E023**
REV : **12**

LIGHTING CONTROL DEVICE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER/CATALOGUE NO.
OS A	24V DUAL TECH LOW VOLTAGE OCCUPANCY SENSOR	WATTSTOPPER DT-305 C/W ENCELIUM SENSOR INTERFACE MODULE
OS	ENCELIUM WIRED OCCUPANCY SENSOR	56356-EN-SCPPH-1500-GB2
OS HB	ENCELIUM WIRED HIGH BAY OCCUPANCY SENSOR	56357-EN-SCPPH-HB-GB2
D	ENCELIUM 3 SCENE WALL STATION	ENCELIUM EN-WS-SC3-GB2-WH
D_{D2}	ENCELIUM 5 SCENE WALL STATION	ENCELIUM EN-WS-SC5-GB2-WH
D_{D3}	ENCELIUM WALL DIMMER	ENCELIUM EN-WS-4B-GB2-WH
D_{D4}	ENCELIUM WALL SWITCH (ON/OFF ONLY)	ENCELIUM EN-WS-2B-GB2-WH
D_{D5}	ENCELIUM TOUCHSCREEN	ENCELIUM KX4
OS	WALL MOUNTED OCCUPANCY SENSOR	WATTSTOPPER DW-100-24-W C/W ENCELIUM SENSOR INTERFACE MODULE
WM	WIRED MANAGER	EN-M-GB2-X (X): EN-ECU-G4-P3D (EXTEND)
ALC	AREA LIGHTING CONTROLLER	ENCELIUM EN-ALC-1R10V-GB2-BK
LCM	LIGHTING CONTROL MODULE	ENCELIUM EN-LCM-1R10V-GB2-BK



GENERAL NOTE:

1. ENCELIUM LIGHTING CONTROL SYSTEM IS A LONG LEAD ITEM. THE EXPECTED DELIVERY TIME CAN VARY BETWEEN 3 TO 6 MONTHS. CONTRACTOR IS ADVISED TO REVIEW THE DRAWINGS AND PLACE PURCHASE ORDER AS SOON AS POSSIBLE AFTER AWARDING THE CONTRACT, IN ORDER TO AVOID ANY DELAYS TO PROJECT SCHEDULE.
2. REFER TO ELECTRICAL SPECIFICATION AND ALLOW FOR ADDITIONAL VISITS OF LIGHTING CONTROLS SPECIALIST AS REQUIRED. INCLUDE ALL ASSOCIATED COST IN TENDER PRICE AS REQUIRED.

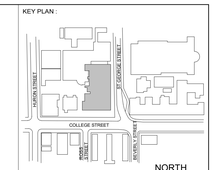
LIGHTING CONTROL NOTES:

1. EXACT LOCATION OF DEVICES TO BE CONFIRMED ON SITE.
2. PROVIDE ENGRAVING KIT FOR ALL WALL BUTTONS, AS REQUIRED.
3. DEVICES IN EACH ROOM SHALL OPERATE WITH OPEN TOPOLOGY AND CAN BE REARRANGED.
4. PROVIDE STAINLESS STEEL COVER PLATE FOR WALL STATIONS.
5. ALL CONTROL DEVICES TO BE INSTALLED WITHIN BACKBOXES AS REQUIRED.
6. ALL LOW VOLTAGE AND CONTROL WIRING SHALL BE INSTALLED INSIDE EMT CONDUITS.
7. CONTRACTOR MUST ADHERE TO ENCELIUM DRAWINGS. ANY MODIFICATIONS TO ENCELIUM DRAWINGS REQUIRE FACTORY APPROVAL.
8. SENSORS MUST BE INSTALLED AS PER INDUSTRY STANDARD. REFER TO MANUFACTURER INSTRUCTION SHEET INCLUDED WITH SENSOR HARDWARE. - ALL SENSORS MUST BE MOUNTED AT LEAST 6 FEET AWAY FROM AIR VENTS & HEAT EXCHANGERS.
9. UNLESS OTHERWISE NOTED, ALL SENSORS WILL OPERATE AUTO ON, AUTO OFF WITH A TIMEOUT OF 11 MINUTES.
10. UNLESS OTHERWISE NOTED, ALL ENCELIUM WIRED MANAGERS SHOULD BE CONNECTED TO NORMAL POWER.
11. COORDINATE WITH ENCELIUM TECHNICIAN TO ASSIGN SWITCHES TO THE RESPECTIVE FIXTURE GROUPING, AS INDICATED ON LIGHTING ZONES LAYOUTS.
12. ENCELIUM WIRED MANAGER (M), SYSTEM SUPPORT UNIT (SSU) AND WIRELESS MANAGER (WM) IS TO BE CONNECTED TO F&S NETWORK. ONE IP ADDRESS PER DEVICE MUST BE PROVIDED TO ENCELIUM PRIOR TO SYSTEM START UP.
13. NETWORK RUNS MUST NOT EXCEED 100M (328FT.). ANY MODIFICATIONS TO ENCELIUM DRAWINGS REQUIRE FACTORY APPROVAL.
14. REFER TO THE ENCELIUM CONTRACTOR'S INSTALLATION GUIDE FOR SYSTEM INFORMATION, CUT SHEETS, AND WIRING DIAGRAMS.
15. SYSTEM NEEDS TO BE TESTED PRIOR TO REQUESTING SYSTEM STARTUP SERVICES. PLEASE REFER TO ENCELIUM CONTRACTOR MANUAL FOR TESTING PROCEDURE USING GREENBUS II TESTER AND/OR EEM G4 INSTALLATION MODE.
16. END USER NETWORK ACCESS TO THE ENCELIUM SERVER (SSU) MUST BE ARRANGED PRIOR TO SYSTEM TRAINING.
17. ENCELIUM PHASE CUT DIMMING MODULE (PCDM) HAS A MAXIMUM OUTPUT RATING OF: 120 VAC: 450W, 3.8A MAX.
18. USE MINIMUM 3/4" CONDUIT FOR GREENBUS CABLING.
19. ALLOW FOR THE COST TO PROVIDE POE INJECTORS AS REQUIRED.
20. ALLOW FOR SYSTEM INTEGRATION TO UofT ENCELIUM SERVER (INCLUDING BUT NOT LIMITED TO GRAPHIC SET UP, DATA COLLECTION, ETC.)
21. DIMMING WIRING SHALL BE PROVIDED IF FIXTURE COMES WITH DIMMABLE DRIVER.
22. REFER TO LIGHTING CONTROL PLANS E401-A, 402-A, 403-A FOR DEVICE TYPES/QTY.
23. LIGHTING CONTROL SYSTEM SHALL BE CONNECTED TO FIRE ALARM SYSTEM SUCH THAT UPON FIRE ALARM ACTIVATION, LIGHTING CONTROL SYSTEM SHALL INITIATE AN EMERGENCY SEQUENCE TO BRING ALL LIGHTS TO FULL BRIGHTNESS. ONCE FIRE ALARM EVENT IS RESOLVES, LIGHTING LEVELS SHALL RETURN TO THE PREVIOUS STATE.

PARTITION SENSORS NOTES:

1. THE PARTITION SENSOR MUST PROVIDE A 'HIGH' SIGNAL WHEN AT CLOSED STATE AND THE ROOMS SHOULD ACT/OPERATES SEPARATELY.
2. THE PARTITION SENSOR MUST PROVIDE A 'LOW' SIGNAL WHEN AT OPEN STATE AND THE ROOMS SHOULD ACT/OPERATES COMBINED.

KEY PLAN :



REVISION

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6	2025-01-31	ISSUED FOR BID
10	2025-03-25	BID ADDENDUM #04
11	2025-03-28	BID ADDENDUM #05
12	2025-04-30	ISSUED FOR CONSTRUCTION

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SHEET CONTENTS
RISER DIAGRAM

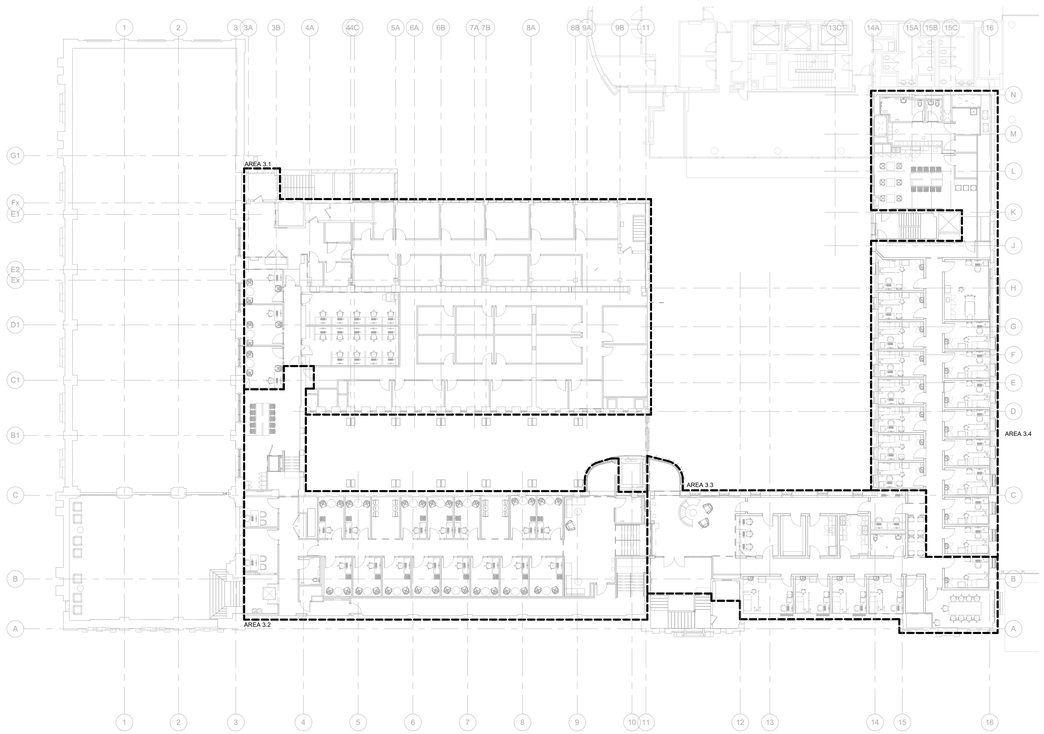
PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 100

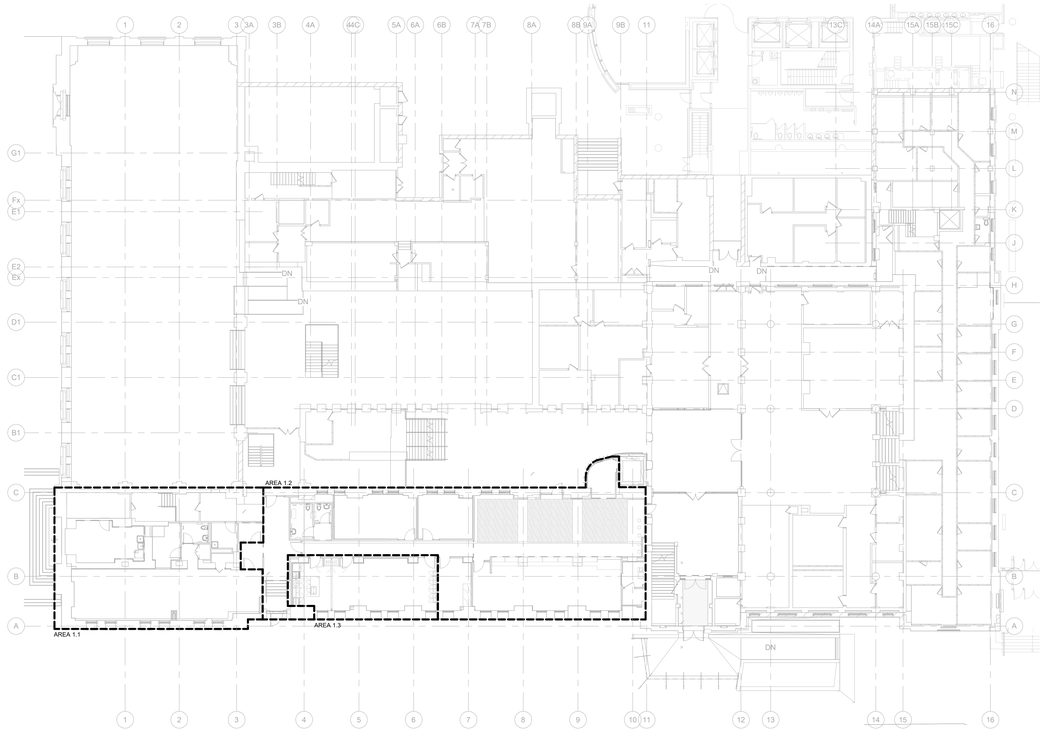
DRAWN BY :	CHECKED BY :	DATE :
Author	Checker	Issue Date

SHEET NO :
E024

REV :
12



3 E025 FLOOR 3 - LIGHTING CONTROL KEYPLAN
1 : 200



1 E025 FLOOR 1 - LIGHTING CONTROL KEYPLAN
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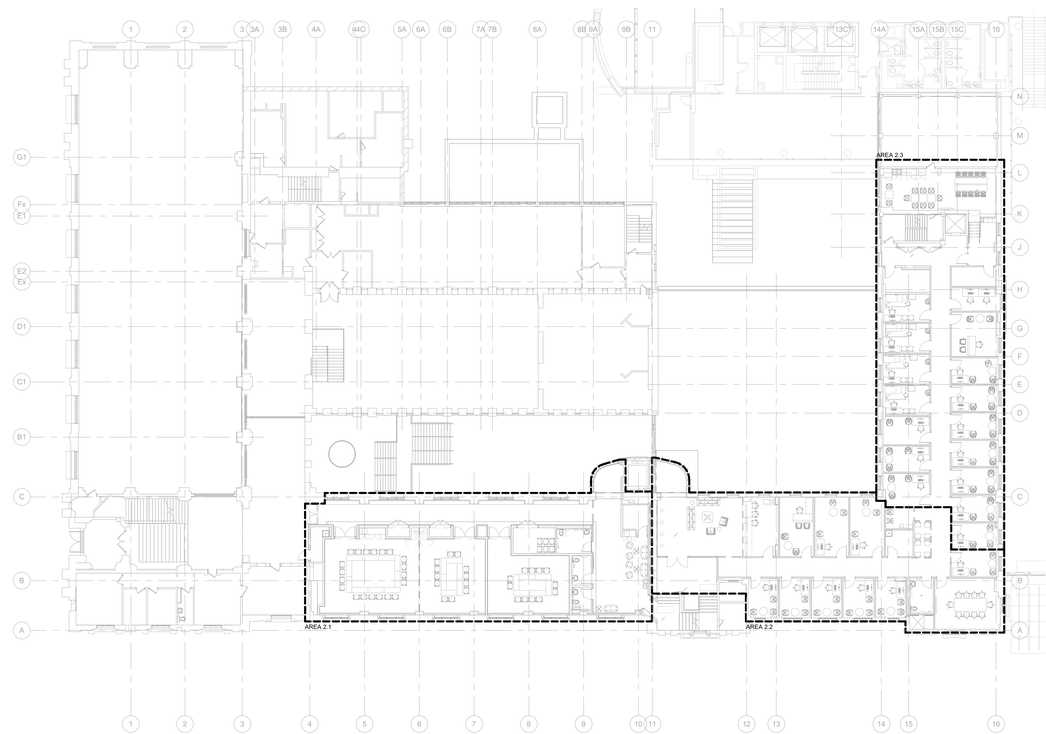
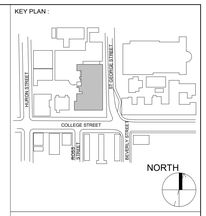


2 E025 FLOOR 2 - LIGHTING CONTROL KEYPLAN
1 : 200

KEY PLAN :



REVISION

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SEAL :

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HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

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SHEET CONTENTS :
LIGHTING CONTROL LAYOUT

PROJECT NUMBER :
21590.003

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1 : 200

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

SHEET NO
E025

REV.
12

E - COPPER FEEDER SCHEDULE

(PER TABLE 2 CEC (2021) AND 4-006, 60C (FOR EQUIPMENT 100A AND BELOW), 75C AND TABLE 6B RW90XLPE UNJACKETED 1000V FOR RW90 COLUMN AND TABLE 6D RWU90 UNJACKETED FOR RWU90 COLUMN.)

X000.0
C-COPPER, M-COPPER (MOTOR) — 3-(3 WIRE + BOND), 4-(4 WIRE + BOND), 4D-(4 WIRE WITH SINGLE DOUBLE SIZED NEUTRAL + BOND), 5-(5 WIRE + BOND)
FEEDER NUMBER

2. RWU90 WIRING IS TO BE USED FOR UNDERGROUND INSTALLATIONS.
3. FOR MOTORS REQUIRING FEEDERS GREATER THAN 110A, THE BONDING CONDUCTOR SHALL BE SIZED ACCORDING TO CEC RULE 10-616.

FEEDER No.	No. OF RUNS	CONDUCTOR SIZE + BONDING CONDUCTOR SIZE (AWG OR KCMIL) PER RUN	MAXIMUM CIRCUIT CAPACITY PER 75°C COLUMN (PER 60°C COLUMN FOR MOTORS)					MAXIMUM CIRCUIT CAPACITY PER 75°C COLUMN				
			FEEDER AMPACITY FOR 3 & 4 WIRE SYSTEMS	3 WIRE+BONDING CONDUCTOR CONDUIT SIZE PER RUN		4 WIRE + BONDING CONDUCTOR CONDUIT SIZE PER RUN		5 WIRE + BONDING CONDUCTOR FEEDER NO.	FEEDER AMPACITY FOR 5 WIRE SYSTEMS	5 WIRE (DOUBLE NEUTRAL) + BONDING CONDUCTOR CONDUIT SIZE PER RUN	
				RW90	RWU90	RW90	RWU90			RW90	RWU90
M20	1	#12 AWG + #12 AWG	20	21 (3/4")	21 (3/4")	N/A	N/A				
M30	1	#10 AWG + #10 AWG	30	21 (3/4")	21 (3/4")	N/A	N/A				
M40	1	#8 AWG + #8 AWG	40	21 (3/4")	27 (1")	N/A	N/A				
M55	1	#6 AWG + #6 AWG	55	27 (1")	35 (1-1/4")	N/A	N/A				
M70	1	#4 AWG + #6 AWG	70	35 (1-1/4")	35 (1-1/4")	N/A	N/A				
M85	1	#3 AWG + #6 AWG	85	35 (1-1/4")	41 (1-1/2")	N/A	N/A				
M95	1	#2 AWG + #6 AWG	95	41 (1-1/2")	41 (1-1/2")	N/A	N/A				
M110	1	#1 AWG + #6 AWG	110	53 (2")	53 (2")	N/A	N/A				
C20	1	#12 AWG + #12 AWG	20	21 (3/4")	21 (3/4")	21 (3/4")	21 (3/4")				
C30	1	#10 AWG + #10 AWG	30	21 (3/4")	21 (3/4")	21 (3/4")	27 (1")				
C50	1	#8 AWG + #10 AWG	50	21 (3/4")	27 (1")	27 (1")	35 (1-1/4")				
C65	1	#6 AWG + #8 AWG	65	27 (1")	35 (1-1/4")	35 (1-1/4")	35 (1-1/4")				
C85	1	#4 AWG + #8 AWG	85	35 (1-1/4")	35 (1-1/4")	35 (1-1/4")	41 (1-1/2")				
C100	1	#3 AWG + #8 AWG	100	35 (1-1/4")	41 (1-1/2")	41 (1-1/2")	41 (1-1/2")				
C115	1	#2 AWG + #6 AWG	115	41 (1-1/2")	41 (1-1/2")	41 (1-1/2")	53 (2")				
C130	1	#1 AWG + #6 AWG	130	53 (2")	53 (2")	53 (2")	53 (2")				
C150	1	#1/0 AWG + #6 AWG	150	53 (2")	53 (2")	53 (2")	53 (2")	C120	120	63 (2-1/2")	63 (2-1/2")
C175	1	#2/0 AWG + #6 AWG	175	53 (2")	53 (2")	63 (2-1/2")	63 (2-1/2")	C140	140	63 (2-1/2")	63 (2-1/2")
C200	1	#3/0 AWG + #6 AWG	200	53 (2")	63 (2-1/2")	63 (2-1/2")	63 (2-1/2")	C160	160	78 (3")	78 (3")
C230	1	#4/0 AWG + #6 AWG	230	63 (2-1/2")	63 (2-1/2")	78 (3")	78 (3")	C184	184	78 (3")	78 (3")
C255	1	250 KCMIL + #4 AWG	255	63 (2-1/2")	78 (3")	78 (3")	78 (3")	C204	204	78 (3")	91 (3-1/2")
C285	1	300 KCMIL + #4 AWG	285	78 (3")	78 (3")	78 (3")	78 (3")	C228	228	91 (3-1/2")	91 (3-1/2")
C300	2	#1/0 AWG + #6 AWG	300	53 (2")	53 (2")	53 (2")	53 (2")	C240	240	63 (2-1/2")	63 (2-1/2")
C310	1	350 KCMIL + #3 AWG	310	78 (3")	78 (3")	91 (3-1/2")	91 (3-1/2")	C248	248	91 (3-1/2")	91 (3-1/2")
C335	1	400 KCMIL + #3 AWG	335	78 (3")	78 (3")	91 (3-1/2")	91 (3-1/2")	C268	268	103 (4")	103 (4")
C350	2	#2/0 AWG + #6 AWG	350	53 (2")	53 (2")	63 (2-1/2")	63 (2-1/2")	C280	280	63 (2-1/2")	63 (2-1/2")
C380	1	500 KCMIL + #3 AWG	380	91 (3-1/2")	91 (3-1/2")	103 (4")	103 (4")	C304	304	103 (4")	129 (5")
C400	2	#3/0 AWG + #6 AWG	400	53 (2")	63 (2-1/2")	63 (2-1/2")	63 (2-1/2")	C320	320	78 (3")	78 (3")
C420	1	600 KCMIL + #2 AWG	420	91 (3-1/2")	103 (4")	103 (4")	129 (5")	C336	336	129 (5")	129 (5")
C460	2	#4/0 AWG + #4 AWG	460	63 (2-1/2")	63 (2-1/2")	78 (3")	78 (3")	C368	368	78 (3")	78 (3")
C475	1	750 KCMIL + #2 AWG	475	103 (4")	129 (5")	129 (5")	129 (5")	C380	380	129 (5")	129 (5")
C510	2	250 KCMIL + #4 AWG	510	63 (2-1/2")	78 (3")	78 (3")	78 (3")	C408	408	78 (3")	91 (3-1/2")
C545	1	1000 KCMIL + #1 AWG	545	129 (5")	129 (5")	129 (5")	155 (6")	C436	436	155 (6")	155 (6")
C570	2	300 KCMIL + #4 AWG	570	78 (3")	78 (3")	78 (3")	78 (3")	C456	456	91 (3-1/2")	91 (3-1/2")
C620	2	350 KCMIL + #3 AWG	620	78 (3")	78 (3")	91 (3-1/2")	91 (3-1/2")	C496	496	91 (3-1/2")	91 (3-1/2")
C670	2	400 KCMIL + #3 AWG	670	78 (3")	78 (3")	91 (3-1/2")	91 (3-1/2")	C536	536	103 (4")	103 (4")
C760	2	500 KCMIL + #2 AWG	760	91 (3-1/2")	91 (3-1/2")	103 (4")	103 (4")	C608	608	103 (4")	129 (5")
C765	3	250 KCMIL + #4 AWG	765	63 (2-1/2")	78 (3")	78 (3")	78 (3")	C612	612	78 (3")	91 (3-1/2")
C840	2	600 KCMIL + #3 AWG	840	91 (3-1/2")	103 (4")	103 (4")	129 (5")	C672	672	129 (5")	129 (5")
C855	3	300 KCMIL + #4 AWG	855	78 (3")	78 (3")	78 (3")	78 (3")	C684	684	91 (3-1/2")	91 (3-1/2")
C930	3	350 KCMIL + #3 AWG	930	78 (3")	78 (3")	91 (3-1/2")	91 (3-1/2")	C744	744	91 (3-1/2")	91 (3-1/2")
C950	2	750 KCMIL + #2 AWG	950	103 (4")	129 (5")	129 (5")	129 (5")	C760	760	129 (5")	129 (5")
C1005	3	400 KCMIL + #3 AWG	1005	78 (3")	78 (3")	91 (3-1/2")	91 (3-1/2")	C804	804	103 (4")	103 (4")
C1020	4	250 KCMIL + #4 AWG	1020	63 (2-1/2")	78 (3")	78 (3")	78 (3")	C816	816	78 (3")	91 (3-1/2")
C1090	2	1000 KCMIL + #1 AWG	1090	129 (5")	129 (5")	129 (5")	155 (6")	C872	872	155 (6")	155 (6")
C1140	3	500 KCMIL + #3 AWG	1140	91 (3-1/2")	91 (3-1/2")	103 (4")	103 (4")	C912	912	103 (4")	129 (5")
C1240	4	350 KCMIL + #3 AWG	1240	78 (3")	78 (3")	91 (3-1/2")	91 (3-1/2")	C992	992	91 (3-1/2")	91 (3-1/2")
C1260	3	600 KCMIL + #2 AWG	1260	91 (3-1/2")	103 (4")	103 (4")	129 (5")	C1008	1008	129 (5")	129 (5")
C1340	4	400 KCMIL + #3 AWG	1340	78 (3")	78 (3")	91 (3-1/2")	91 (3-1/2")	C1072	1072	103 (4")	103 (4")
C1425	3	750 KCMIL + #2 AWG	1425	103 (4")	129 (5")	129 (5")	129 (5")	C1140	1140	129 (5")	129 (5")
C1520	4	500 KCMIL + #3 AWG	1520	91 (3-1/2")	91 (3-1/2")	103 (4")	103 (4")	C1216	1216	103 (4")	129 (5")
C1635	3	1000 KCMIL + #1 AWG	1635	129 (5")	129 (5")	129 (5")	155 (6")	C1308	1308	155 (6")	155 (6")
C1680	4	600 KCMIL + #2 AWG	1680	91 (3-1/2")	103 (4")	103 (4")	129 (5")	C1344	1344	129 (5")	129 (5")
C1900	4	750 KCMIL + #2 AWG	1900	103 (4")	129 (5")	129 (5")	129 (5")	C1520	1520	129 (5")	129 (5")
C2180	4	1000 KCMIL + #1 AWG	2180	129 (5")	129 (5")	129 (5")	155 (6")	C1744	1744	155 (6")	155 (6")

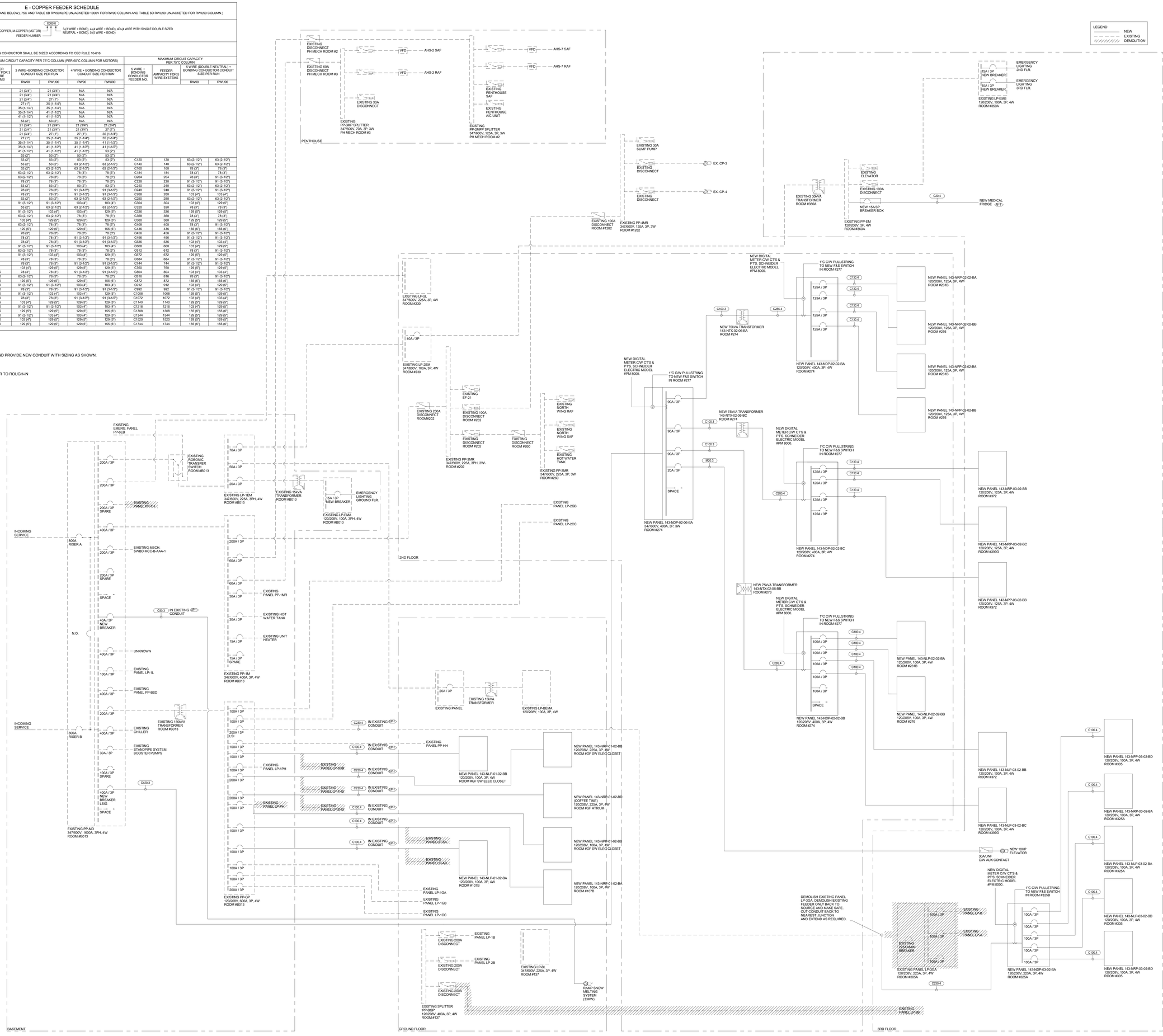
SCHEDULE REVISION DATE: 2022-09-13

UNIT PRICE

(P-1) DEMOLISH EXISTING CONDUIT BACK TO SOURCE AND PROVIDE NEW CONDUIT WITH SIZING AS SHOWN.

CODED NOTES

(N-1) CONFIRM LOCATION OF EQUIPMENT WITH GC PRIOR TO ROUGH-IN



KEY PLAN :

REVISION

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
9	2025-03-21	BID ADDENDUM #03
12	2025-04-30	ISSUED FOR CONSTRUCTION

THIS DRAWING IS "ISSUED FOR CONSTRUCTION" AND IS CONSIDERED COMPLEMENTARY TO THE CONTRACT DOCUMENTS. TO THE BEST OF OUR KNOWLEDGE IT IS AN ACCURATE REPRESENTATION OF DOCUMENTED REVISIONS. IN THE CASE OF ANY DISCREPANCY, OMISSION OR CONFLICT BETWEEN THIS "ISSUED FOR CONSTRUCTION" DOCUMENT AND THE CONTRACT DOCUMENTS, THE CONTRACTOR IS TO PROMPTLY BRING IT TO THE ATTENTION OF THE CONSULTANT.

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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 :
SINGLE LINE DIAGRAM

PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 100

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

SHEET NO :
E026

REV :
12

BLDG #: 143 | PANEL TAG: 143-NRP-03-02-BA | UNIVERSITY OF TORONTO | DATE MODIFIED: 2/13/2025

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
450	0.60	270	RECEPT., 320, 322, 324	15	1 A	2	15	RECEPT., 320, 322, 324	450	0.60	270
450	0.60	270	RECEPT., 322	15	3 B	4	15	RECEPT., 307, 320K, 325V	450	0.60	270
450	0.60	270	RECEPT., 320	15	5 C	6	15	RECEPT., 323	600	0.60	360
600	0.60	360	RECEPT., 323	15	7 A	8	15	RECEPT., 323	600	0.60	360
300	0.60	180	RECEPT., 323	15	9 B	10	15	RECEPT., 323	600	0.60	360
600	0.60	360	RECEPT., 323	15	11 C	12	15	RECEPT., 323	300	0.60	180
200	0.60	120	ADO, 320K	15	13 A	14	15	RECEPT., 323	600	0.60	360
180	0.60	300	ROOFTOP RECEPTACLE: ROOF	20	15 B	16	20	RECEPT., 325B	450	1.00	450
		0	SPARE	15	17 C	18	20	SPARE:			0
		0	SPARE	15	19 A	20		SPACE			0
		0	SPARE	15	21 B	22		SPACE			0
		0	SPARE	15	23 C	24		SPACE			0
		0	SPARE	15	25 A	26		SPACE			0
		0	SPARE	15	27 B	28		SPACE			0
		0	SPARE	15	29 C	30		SPACE			0
		0	SPARE	15	31 A	32		SPACE			0
		0	SPARE	15	33 B	34		SPACE			0
		0	SPARE	15	35 C	36		SPACE			0
		0	SPARE	15	37 A	38		SPACE			0
		0	SPARE	15	39 B	40		SPACE			0
		0	SPARE	15	41 C	42		SPACE			0

BLDG: 143 | FLOOR: 3 | ROOM: 325 | NEW TAG: N/A

RATINGS: 100A | 120/208V | 3 PHASE | 4 WIRE | S.C.: 10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-03-02-BA	143	325	100A/3P	4 #3 AWG + #6 AWG IN 1-1/2"C

143-NRP-03-02-BA

6 E031 PANEL 143-NRP-03-02-BA SCHEDULE
SCALE: NTS

BLDG #: 143 | PANEL TAG: 143-NRP-02-02-BA | UNIVERSITY OF TORONTO | DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
150	0.60	90	RECEPT., 231	15	1 A	2	15	ADO, 231	100	0.60	60
600	0.60	360	RECEPT., 231	15	3 B	4	15	MOTORIZED SHADES, 231, 233	1200	0.60	720
600	0.60	360	RECEPT., 233	15	5 C	6	15	ADO, 233, 235	100	0.60	60
300	0.60	180	RECEPT., 233	15	7 A	8	15	MOTORIZED SHADES, 235	200	0.60	120
150	0.60	90	RECEPT., 231	15,GFI	9 B	10	15	ADO, 237A, 237B	200	0.60	120
600	0.60	360	RECEPT., 231	15	11 C	12	15	MOTORIZED SCREEN., 231,233	1200	0.60	720
150	0.60	90	RECEPT., 231	20,GFI	13 A	14	20	RECEPT., 238	500	0.60	300
450	0.60	270	RECEPT., 230K	15	15 B	16	15	SPARE			0
300	0.60	180	RECEPT., 255	15	17 C	18	20	RECEPT., 238	500	0.60	300
600	0.60	360	RECEPT., 235	15	19 A	20	15	SPARE			0
300	0.60	180	RECEPT., 235	15	21 B	22	15	SPARE			0
300	0.60	180	RECEPT., 236	20	23 C	24	15	SPARE			0
450	0.60	270	RECEPT., 236	15	25 A	26	15	SPARE			0
450	0.60	270	RECEPT., 237A, 237B, 237C	15,GFI	27 B	28	15	SPARE			0
300	0.60	180	RECEPT., 237	15	29 C	30		SPACE			0
300	0.60	180	RECEPT., 237	15	31 A	32		SPACE			0
150	0.60	90	RECEPT., 237	20,GFI	33 B	34		SPACE			0
450	0.60	270	RECEPT., 237	15	35 C	36		SPACE			0
150	0.60	90	RECEPT., 237A	20	37 A	38		SPACE			0
150	0.60	90	SECURITY PANEL, 233A	15	39 B	40		SPACE			0
600	0.60	360	RECEPT., 237	15	41 C	42		SPACE			0

BLDG: 143 | FLOOR: 2 | ROOM: 231B | NEW TAG: N/A

RATINGS: 125A | 120/208V | 3 PHASE | 4 WIRE | S.C.: 10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-02-02-BA	143	274	125A/3P	4 #1 AWG + #6 AWG IN 2"C

143-NRP-02-02-BA.xlsx

4 E031 PANEL 143-NRP-02-02-BA SCHEDULE
SCALE: NTS

BLDG #: 143 | PANEL TAG: 143-NRP-01-02-BA | UNIVERSITY OF TORONTO | DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
450	0.60	270	RECEPT., 114	15	1 A	2	20	RECEPT., 119	300	0.60	180
300	0.60	180	RECEPT., 114	20	3 B	4	20	RECEPT., 119	150	0.60	90
450	0.60	270	RECEPT., 114	15	5 C	6	20	RECEPT., 119	150	0.60	90
300	0.60	180	RECEPT., 112	15	7 A	8	2P		150	0.60	90
300	0.60	180	RECEPT., 112	15	9 B	10	20	RECEPT., 119	300	0.60	180
300	0.60	180	RECEPT., 106	15	11 C	12	2P		300	0.60	180
300	0.60	180	RECEPT., 106	15	13 A	14	20	RECEPT., 119	150	0.60	90
300	0.60	180	RECEPT., 106	15	15 B	16	2P		150	0.60	90
300	0.60	180	RECEPT., 106, 115K	15	17 C	18	15,GFI	RECEPT., 119	300	0.60	180
150	0.60	90	RECEPT., 115K	15	19 A	20	15,GFI	RECEPT., 119	300	0.60	180
150	0.60	90	RECEPT., 107A	20	21 B	22	15	RECEPT., 119	150	0.60	90
150	0.60	90	RECEPT., 107B	15	23 C	24	15	DIRECT CONNECTION, 119	100	0.60	60
600	0.60	360	RECEPT., 107	15	25 A	26	15	RECEPT., 100E	100	0.60	60
300	0.60	180	RECEPT., 107	15	27 B	28	30	TRENCH DRAIN SYSTEM	2290	0.50	1145
600	0.60	360	RECEPT., 107	15	29 C	30	15	ADO., 115	200	0.60	120
600	0.60	360	RECEPT., 107	15	31 A	32	15	ADO., 100V	200	0.60	120
450	0.60	270	RECEPT., 107, 115K	15	33 B	34	15	ADO., 107	200	0.60	120
750	0.60	450	RECEPT., 113	15	35 C	36	15	ADO., 106	100	0.60	60

BLDG: 143 | FLOOR: 1 | ROOM: 107B | NEW TAG: N/A

RATINGS: 100 A | 120/208V | 3 PHASE | 4 WIRE | S.C.: 10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	PP-GP	143	B013	100A/3P	4 #3 AWG + #6 AWG IN 1-1/2"C

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)	DESCRIPTION:	BKR (A)	CT	CT	BKR (A)	DESCRIPTION:	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)
300	0.60	180	RECEPT., 115	15	37 A	38		SPACE			0
450	0.60	270	RECEPT., 115	15	39 B	40		SPACE			0
300	0.60	180	RECEPT., 115	15	41 C	42		SPACE			0
300	0.50	150	MOT. PARTITION	15	43 A	44		SPACE			0
		0	SPARE	15	45 B	46		SPACE			0
		0	SPARE	15	47 C	48		SPACE			0
		0	SPARE	15	49 A	50		SPACE			0
		0	SPARE	15	51 B	52		SPACE			0
		0	SPARE	15	53 C	54		SPACE			0
		0	SPARE	15	55 A	56		SPACE			0
		0	SPARE	15	57 B	58		SPACE			0
		0	SPARE	15	59 C	60		SPACE			0
		0	SPARE	15	61 A	62		SPACE			0
		0	SPARE	15	63 B	64		SPACE			0
		0	SPARE	15	65 C	66		SPACE			0
		0	SPARE	15	67 A	68		SPACE			0
		0	SPARE	15	69 B	70		SPACE			0
		0	SPARE	15	71 C	72		SPACE			0

143-NRP-01-02-BA.xlsx

1 E031 PANEL 143-NRP-01-02-BA SCHEDULE
SCALE: NTS

BLDG #: 143 | PANEL TAG: 143-NRP-01-02-BB | UNIVERSITY OF TORONTO | DATE MODIFIED: 2/13/2025

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
150	0.60	90	RECEPT., 131B	15	1 A	2	15	SPARE			0
300	0.60	180	RECEPT., 126, 131B	15	3 B	4	15	SPARE			0
150	0.60	90	RECEPT., 131B	15	5 C	6	15	SPARE			0
150	0.60	90	RECEPT., 131B	15	7 A	8	15	SPARE			0
300	0.60	180	RECEPT., 126A	20	9 B	10	15	SPARE			0
150	0.60	90	RECEPT., 120V, 125, 126	15	11 C	12	15	SPARE			0
150	0.60	90	RECEPT., 130	15	13 A	14	15	SPARE			0
300	0.60	180	RECEPT., 131K	15	15 B	16	15	SPARE			0
150	0.60	90	RECEPT., 125	20	17 C	18	15	SPARE			0
600	0.60	360	RECEPT., 125	15	19 A	20		SPACE			0
600	0.60	360	RECEPT., 125	15	21 B	22		SPACE			0
600	0.60	360	RECEPT., 125	15	23 C	24		SPACE			0
600	0.60	360	RECEPT., 125	15	25 A	26		SPACE			0
600	0.60	360	RECEPT., 125	15	27 B	28		SPACE			0
200	0.60	120	ADO, 122V, 120V	15	29 C	30		SPACE			0
450	0.60	270	RECEPT., 122	20	31 A	32		SPACE			0
		0	SPARE	15	33 B	34		SPACE			0
300	0.60	180	RECEPT., 116	20	35 C	36		SPACE			0
			SPARE	20	37 A	38		SPACE			0
			SPARE	15	39 B	40		SPACE			0
			SPARE	15	41 C	42		SPACE			0

BLDG: 143 | FLOOR: 1 | ROOM: 126B | NEW TAG: N/A

RATINGS: 225A | 120/208V | 3 PHASE | 4 WIRE | S.C.: 10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	EXISTING PP-GP	143	B013	200A/3P	4 #4/0 AWG + #4 AWG IN 2"C

141-NRP-01-02-BB

2 E031 PANEL 143-NRP-01-02-BB SCHEDULE
SCALE: NTS

BLDG #: 143 | PANEL TAG: 143-NRP-01-02-BD | UNIVERSITY OF TORONTO | DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
		0	SPARE	15	1 A	2		SPACE			0
		0	SPARE	15	3 B	4		SPACE			0
		0	SPARE	15	5 C	6		SPACE			0
		0	SPACE		7 A	8		SPACE			0
		0	SPACE		9 B	10		SPACE			0
		0	SPACE		11 C	12		SPACE			0
		0	SPACE		13 A	14		SPACE			0
		0	SPACE		15 B	16		SPACE			0
		0	SPACE		17 C	18		SPACE			0
		0	SPACE		19 A	20		SPACE			0
		0	SPACE		21 B	22		SPACE			0
		0	SPACE		23 C	24		SPACE			0
		0	SPACE		25 A	26		SPACE			0
		0	SPACE		27 B	28		SPACE			0
		0	SPACE		29 C	30		SPACE			0
		0	SPACE		31 A	32		SPACE			0
		0	SPACE		33 B	34		SPACE			0
		0	SPACE		35 C	36		SPACE			0
		0	SPACE		37 A	38		SPACE			0
		0	SPACE		39 B	40		SPACE			0
			SPACE		41 C	42		SPACE			0

BLDG: 143 | FLOOR: 1 | ROOM: 126 | NEW TAG: N/A

RATINGS: 225A | 120/208V | 3 PHASE | 4 WIRE | S.C.: 10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	EXISTING PP-GP	143	GF ATRIUM	200A/3P	4#2 AWG + #6 AWG IN 1-1/4"C

NOTE: PROVIDE LOCKABLE ENCLOSURE FOR PANEL 143-NRP-01-02-BD

143-NRP-01-02-BD.xlsx

3 E031 PANEL 143-NRP-01-02-BD SCHEDULE
SCALE: NTS

BLDG #: 143 | PANEL TAG: 143-NRP-03-02-BB | UNIVERSITY OF TORONTO | DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
300	0.60	180	RECEPT., 360	15	1 A	2	20	RECEPT., 367	150.00	0.60	90
300	0.60	180	RECEPT., 360	15	3 B	4	20	RECEPT., 367	150.00	0.60	90
600	0.60	360	RECEPT., 363	15	5 C	6	20	RECEPT., 367	150.00	0.60	90
300	0.60	180	RECEPT., 363	15	7 A	8	15	SPACE			0
300	0.60	180	RECEPT., 365, 367	15	9 B	10	20	RECEPT., 369	150.00	0.60	90
450	0.60	270	RECEPT., 365K, 379	15	11 C	12	20	RECEPT., 369	150.00	0.60	90
450	0.60	270	RECEPT., 369, 370K	15	13 A	14	20	RECEPT., 369	150.00	0.60	90
600	0.60	360	RECEPT., 379	15	15 B	16	20	RECEPT., 369	150.00	0.60	90
150	0.60	90	RECEPT., 371	15	17 C	18	20	RECEPT., 369	150.00	0.60	90
600	0.60	360	RECEPT., 377	15	19 A	20	20	RECEPT., 369	150.00	0.60	90
600	0.60	360	RECEPT., 379	15	21 B	22	15	RECEPT., 361, 363, 365	450	0.60	270
450	0.60	270	RECEPT., 381	15	23 C	24	15	RECEPT., 387, 389	300	0.60	180
300	0.60	180	RECEPT., 361, 383	15	25 A	26	15	RECEPT., 385, 389	300	0.60	180
450	0.60	270	RECEPT., 383	15	27 B	28	15	RECEPT., 386	450	0.60	270
450	0.60	270	RECEPT., 385	15	29 C	30	15	RECEPT., 386, 388	300	0.60	180
300	0.60	180	RECEPT., 365, 387	15	31 A	32	15	RECEPT., 386	450	0.60	270
450	0.60	270	RECEPT., 387	15	33 B	34	15	RECEPT., 384, 386	300	0.60	180
450	0.60	270	RECEPT., 384	15	35 C	36	15	RECEPT., 384	450	0.60	270

BLDG: 132 | FLOOR: 3 | ROOM: 359A | NEW TAG: N/A

RATINGS: 125 A | 120/208V | 3 PHASE | 4 WIRE | S.C.: 10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-02-02-BC	143	274	125A/3P	4 #1 AWG + # 8 AWG IN 2"C

143-NRP-03-02-BB.xlsx

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)	DESCRIPTION:	BKR (A)	CT	CT	BKR (A)	DESCRIPTION:	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)
300	0.60	180	RECEPT., 364, 366	15	37 A	38	15	RECEPT., 360, 362, 384	450	0.60	270
300	0.60	180	RECEPT., 364, 366	15	39 B	40	15	RECEPT., 362	150	0.60	90
450	0.60	270	RECEPT., 366	15	41 C	42	15	RECEPT., 378, 380, 382	450	0.60	270
450	0.60	270	RECEPT., 368	15	43 A	44	15	RECEPT., 360	450	0.60	270
300	0.60	180	RECEPT., 368, 370	15	45 B	46	15	RECEPT., 376, 378, 380	450	0.60	270
300	0.60	180	RECEPT., 368, 370	15	47 C	48	15	RECEPT., 378	450	0.60	270
450	0.60	270	RECEPT., 370	15	49 A	50	15	RECEPT., 376, 378	300	0.60	180
150	0.60	90	RECEPT., 372	15	51 B	52	15	RECEPT., 376, 378	450	0.60	270
600	0.60	360	RECEPT., 374	15	53 C	54	15	ADO 279K	200	0.60	120
150	0.60	90	RECEPT., 362	15	55 A	56	15	HEAT TRACE, 360V	100	0.60	60
		0	SPARE	15	57 B	58		SPACE			0
		0	SPARE	15	59 C	60		SPACE			0
		0	SPARE	15	61 A	62		SPACE			0
		0	SPARE	15	63 B	64		SPACE			0
		0	SPARE	15	65 C	66		SPACE			0
		0	SPARE	15	67 A	68		SPACE			0
		0	SPARE	15	69 B	70		SPACE			0
		0	SPARE	15	71 C	72		SPACE			0

143-NRP-03-02-BB.xlsx

7 E031 PANEL 143-NRP-03-02-BB SCHEDULE
SCALE: NTS

BLDG #: 143 | PANEL TAG: 143-NRP-02-02-BB | UNIVERSITY OF TORONTO | DATE MODIFIED: 3/13/2025

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)
150	0.60	90	RECEPT., 280	15	1 A	2	15	RECEPT., 271	300	0.60	180
150	0.60	90	RECEPT., 280	20	3 B	4	15	RECEPT., 271	300	0.60	180
150	0.60	90	RECEPT., 280	20	5 C	6	15	RECEPT., 267, 269	300	0.60	180
150	0.60	90	RECEPT., 280	15	7 A	8	15	RECEPT., 269	450	0.60	270
150	0.60	90	RECEPT., 280	15	9 B	10	15	RECEPT., 267	450	0.60	270
450	0.60	270	RECEPT., 280	15	11 C	12	15	RECEPT., 261, 263, 265	450	0.60	270
300	0.60	180	RECEPT., 280	15	13 A	14	15	RECEPT., 265	450	0.60	270
300	0.60	180	RECEPT., 280	15	15 B	16	15	RECEPT., 263	450	0.60	270
300	0.60	180	RECEPT., 245K, 277K	15	17 C	18	15	RECEPT., 261	450	0.60	270
150	0.60	90	RECEPT., 274	15	19 A	20	15	RECEPT., 255, 257, 259	450	0.60	270
450	0.60	270	RECEPT., 277	20	21 B	22	15	RECEPT., 259	450	0.60	270
450	0.60	270	RECEPT., 277	20	23 C	24	15	RECEPT., 257	450	0.60	270
100	0.50	209	RECEPT., 258	15	25 A	26	15	RECEPT., 255, 257, 259	450	0.60	270
600	0.60	360	RECEPT., 273	15	27 B	28	15	RECEPT., 253	450	0.60	270
300	0.60	180	RECEPT., 273	15	29 C	30	15	RECEPT., 253	600	0.60	360
450	0.60	270	RECEPT., 272	15	31 A	32	15	RECEPT., 251	150	0.60	90
300	0.60	180	RECEPT., 270, 272	15	33 B	34	15	RECEPT., 249	450	0.60	270
300	0.60	180	RECEPT., 270	15	35 C	36	15	RECEPT., 247, 249	300	0.60	180
450	0.60	270	RECEPT., 268, 270, 272	15	37 A	38	15	RECEPT., 247	450	0.60	270
300	0.60	180	RECEPT., 266, 268	15	39 B	40	15	RECEPT., 245	450	0.60	270
450	0.60	270	RECEPT., 268	15	41 C	42	15	RECEPT., 243, 245	300	0.60	180

BLDG: 143 | FLOOR: 2 | ROOM: 276 | NEW TAG: N/A

RATINGS: 125 A | 120/208V | 3 PHASE | 4 WIRE | S.C.: 10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-02-02-BA	143	2274	125A/3P	4 #1 AWG + #6 AWG IN 2"C

143-NRP-02-02-BB

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)	DESCRIPTION:	BKR (A)	CT	CT	BKR (A)	DESCRIPTION:	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)
450	0.60	270	RECEPT., 266	15	43 A	44	15	RECEPT., 243	450	0.60	270
450	0.60	270	RECEPT., 262, 264, 266	15	45 B	46	15	RECEPT., 241	450	0.60	270
450	0.60	270	RECEPT., 264	15	47 C	48	15	RECEPT., 240	300	0.60	180
450	0.60	270	RECEPT., 262	15	49 A	50	15	RECEPT., 240	300	0.60	180
450	0.60	270	RECEPT., 258	15	51 B	52	15	RECEPT., 240	450	0.60	270
300	0.60	180	RECEPT., 258	15	53 C	54	15	RECEPT., 242	300	0.60	180
450	0.60	270	RECEPT., 248	15	55 A	56	15	RECEPT., 242	300	0.60	180
450	0.60	270	RECEPT., 244, 246, 248	15	57 B	58	15	RECEPT., 242	300	0.60	180
450	0.60	270	RECEPT., 246	15	59 C	60	15	RECEPT., 242	300	0.60	180
450	0.60	270	RECEPT., 244	15	61 A	62	15	RECEPT., 250	150	0.60	90
450	0.60	270	RECEPT., 249K	15	63 B	64	15	ADO., 251	100	0.60	60
		0	SPARE	15	65 C	66		SPACE			0
		0	SPARE	15	67 A	68		SPACE			0
		0	SPARE	15	69 B	70		SPACE			0
		0	SPARE	15	71 C	72		SPACE			0
		0	SPARE	15	73 A	74		SPACE			0
		0	SPARE	15	75 B	76		SPACE			0
		0	SPARE	15	77 C	78		SPACE			0
		0	SPARE	15	79 A	80		SPACE			0
		0	SPARE	15	81 B	82		SPACE			0
		0	SPARE	15	83 C	84		SPACE			0

143-NRP-02-02-BB

5 E031 PANEL 143-NRP-02-02-BB SCHEDULE
SCALE: NTS

KEY PLAN :

REVISION

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
7	2025-03-07	BID ADDENDUM #01
10	2025-03-25	BID ADDENDUM #04
12	2025-04-30	ISSUED FOR CONSTRUCTION

THIS DRAWING IS "ISSUED FOR CONSTRUCTION" AND IS CONSIDERED COMPLEMENTARY TO THE CONTRACT DOCUMENTS. TO THE BEST OF OUR KNOWLEDGE IT IS AN ACCURATE REPRESENTATION OF DOCUMENTED REVISIONS. IN THE CASE OF ANY DISCREPANCY, OMISSION OR CONFLICT BETWEEN THIS "ISSUED FOR CONSTRUCTION" DOCUMENT AND THE CONTRACT DOCUMENTS, THE CONTRACTOR IS TO PROMPTLY BRING IT TO THE ATTENTION OF THE CONSULTANT.

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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 :
PANEL SCHEDULE

PROJECT NUMBER :
21590.003

DRAWING SCALE :

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

SHEET NO :
E031

REV :
12

BLDG #: 143 PANEL TAG: 143-NLP-03-02-BA DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
110	0.60	66	LIGHTING, 320K, 325V	15	1 A	2		SPACE			0
336	0.60	201.6	LIGHTING, 320, 322, 324	15	3 B	4		SPACE			0
462	0.60	277.2	LIGHTING, 304, 306, 307	15	5 C	6		SPACE			0
424	0.60	254.4	LIGHTING, 323	15	7 A	8		SPACE			0
689	0.60	413.4	LIGHTING, 321	15	9 B	10		SPACE			0
		0	SPARE	15	11 C	12		SPACE			0
		0	SPARE	15	13 A	14		SPACE			0
		0	SPARE	15	15 B	16		SPACE			0
		0	SPARE	15	17 C	18		SPACE			0
		0	SPARE	15	19 A	20		SPACE			0
		0	SPARE	15	21 B	22		SPACE			0
		0	SPARE	15	23 C	24		SPACE			0
		0	SPARE	15	25 A	26		SPACE			0
		0	SPARE	15	27 B	28		SPACE			0
		0	SPARE	15	29 C	30		SPACE			0
		0	SPARE	15	31 A	32		SPACE			0
		0	SPARE	15	33 B	34		SPACE			0
		0	SPARE	15	35 C	36		SPACE			0
		0	SPARE	15	37 A	38		SPACE			0
		0	SPARE	15	39 B	40		SPACE			0
		0	SPARE	15	41 C	42		SPACE			0

BLDG: 143 FLOOR: 3 ROOM: 325 NEW TAG: N/A

RATINGS:	100A	120/208V	3 PHASE	4 WIRE	S.C.:	10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-03-02-BA	143	325	100A/3P	100A/3P

143-NLP-03-02-BA.xlsx

7 E031 PANEL 143-NLP-03-02-BA SCHEDULE
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NLP-03-02-BB DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
624	1.00	624	LIGHTING 350, 360V, 365K	15	1 A	2		SPACE			0
450	1.00	450	LIGHTING, 364,366,368,370	15	3 B	4		SPACE			0
542	1.00	542	LIGHTING, 374, 376, 378, 380, 382	15	5 C	6		SPACE			0
		0	SPARE	15	7 A	8		SPACE			0
		0	SPARE	15	9 B	10		SPACE			0
		0	SPARE	15	11 C	12		SPACE			0
		0	SPARE	15	13 A	14		SPACE			0
		0	SPARE	15	15 B	16		SPACE			0
		0	SPARE	15	17 C	18		SPACE			0
		0	SPARE	15	19 A	20		SPACE			0
		0	SPARE	15	21 B	22		SPACE			0
		0	SPARE	15	23 C	24		SPACE			0
		0	SPARE	15	25 A	26		SPACE			0
		0	SPARE	15	27 B	28		SPACE			0
		0	SPARE	15	29 C	30		SPACE			0
		0	SPARE	15	31 A	32		SPACE			0
		0	SPARE	15	33 B	34		SPACE			0
		0	SPARE	15	35 C	36		SPACE			0
		0	SPARE	15	37 A	38		SPACE			0
		0	SPARE	15	39 B	40		SPACE			0
		0	SPARE	15	41 C	42		SPACE			0

BLDG: 143 FLOOR: 3 ROOM: 399D NEW TAG: N/A

RATINGS:	100A	120/208V	3 PHASE	4 WIRE	S.C.:	10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-02-02-BB	143	274	100A/3P	4 #3 AWG + #6 AWG IN 1-1/2"C

143-NLP-03-02-BB.xlsx

8 E031 PANEL 143-NLP-03-02-BB SCHEDULE
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NLP-03-02-BC DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
667	1.00	667	LIGHTING, 398, 399, 399C.	15	1 A	2		SPACE			0
882	1.00	882	LIGHTING, 379, 381, 383, 385, 387, 389, 391, 393, 395	15	3 B	4		SPACE			0
1000	1.00	1000	LIGHTING, 370K, 377	15	5 C	6		SPACE			0
640	1.00	640	LIGHTING, 384, 386, 388, 390, 392, 394	15	7 A	8		SPACE			0
		0	SPARE	15	9 B	10		SPACE			0
		0	SPARE	15	11 C	12		SPACE			0
		0	SPARE	15	13 A	14		SPACE			0
		0	SPARE	15	15 B	16		SPACE			0
		0	SPARE	15	17 C	18		SPACE			0
		0	SPARE	15	19 A	20		SPACE			0
		0	SPARE	15	21 B	22		SPACE			0
		0	SPARE	15	23 C	24		SPACE			0
		0	SPARE	15	25 A	26		SPACE			0
		0	SPARE	15	27 B	28		SPACE			0
		0	SPARE	15	29 C	30		SPACE			0
		0	SPARE	15	31 A	32		SPACE			0
		0	SPARE	15	33 B	34		SPACE			0
		0	SPARE	15	35 C	36		SPACE			0
		0	SPARE	15	37 A	38		SPACE			0
		0	SPARE	15	39 B	40		SPACE			0
		0	SPARE	15	41 C	42		SPACE			0

BLDG: 143 FLOOR: 3 ROOM: 399D NEW TAG: N/A

RATINGS:	100A	120/208V	3 PHASE	4 WIRE	S.C.:	10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-02-02-BB	143	274	100A/3P	4 #3 AWG + #6 AWG IN 1-1/2"C

143-NLP-03-02-BC.xlsx

9 E031 PANEL 143-NLP-03-02-BC SCHEDULE
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NLP-01-02-BA DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
440	0.60	264	LIGHTING, 112, 114	15	1 A	2		SPACE			0
645	0.60	387	LIGHTING, 106, 115K, 115V, 120V, 120S, 122V	15	3 B	4		SPACE			0
730	0.60	438	LIGHTING, 107A, 107	15	5 C	6		SPACE			0
281.4	0.60	0	LIGHTING, OUTDOORS	15	7 A	8		SPACE			0
		0	SPARE	15	9 B	10		SPACE			0
		0	SPARE	15	11 C	12		SPACE			0
		0	SPARE	15	13 A	14		SPACE			0
		0	SPARE	15	15 B	16		SPACE			0
		0	SPARE	15	17 C	18		SPACE			0
		0	SPARE	15	19 A	20		SPACE			0
		0	SPARE	15	21 B	22		SPACE			0
		0	SPARE	15	23 C	24		SPACE			0
		0	SPARE	15	25 A	26		SPACE			0
		0	SPARE	15	27 B	28		SPACE			0
		0	SPARE	15	29 C	30		SPACE			0
		0	SPARE	15	31 A	32		SPACE			0
		0	SPARE	15	33 B	34		SPACE			0
		0	SPARE	15	35 C	36		SPACE			0
		0	SPARE	15	37 A	38		SPACE			0
		0	SPARE	15	39 B	40		SPACE			0
		0	SPARE	15	41 C	42		SPACE			0

BLDG: 143 FLOOR: 1 ROOM: 107B NEW TAG: N/A

RATINGS:	100A	120/208V	3 PHASE	4 WIRE	S.C.:	10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	EXISTING PP-GP	143	8013	100A/3P	4 #2 AWG + #6 AWG IN 1-1/2"C

143-NLP-01-02-BA.xlsx

3 E031 PANEL 143-NLP-01-02-BA SCHEDULE
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NLP-01-02-BB DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR
530	0.60	318	LIGHTING, 125	15	1 A	2		SPACE		
424	0.60	254.4	LIGHTING, 124, 125	15	3 B	4		SPACE		
148	0.60	88.8	LIGHTING, 113, 115, 119	15	5 C	6		SPACE		
		0	SPARE	15	7 A	8		SPACE		
		0	SPARE	15	9 B	10		SPACE		
		0	SPARE	15	11 C	12		SPACE		
		0	SPARE	15	13 A	14		SPACE		
		0	SPARE	15	15 B	16		SPACE		
		0	SPARE	15	17 C	18		SPACE		
		0	SPARE	15	19 A	20		SPACE		
		0	SPARE	15	21 B	22		SPACE		
		0	SPARE	15	23 C	24		SPACE		
		0	SPARE	15	25 A	26		SPACE		
		0	SPARE	15	27 B	28		SPACE		
		0	SPARE	15	29 C	30		SPACE		
		0	SPARE	15	31 A	32		SPACE		
		0	SPARE	15	33 B	34		SPACE		
		0	SPARE	15	35 C	36		SPACE		
		0	SPARE	15	37 A	38		SPACE		
		0	SPARE	15	39 B	40		SPACE		
		0	SPARE	15	41 C	42		SPACE		

BLDG: 143 FLOOR: 1 ROOM: 126B NEW TAG: N/A

RATINGS:	100A	120/208V	3 PHASE	4 WIRE	S.C.:	10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	EXISTING PP-GP	143	8013	100A/3P	4 #2 AWG + #6 AWG IN 1-1/2"C

143-NLP-01-02-BB.xlsx

4 E031 PANEL 143-NLP-01-02-BB SCHEDULE
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NLP-02-02-BA DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
73	1.00	73	LIGHTING , 231	15	1 A	2		SPACE			0
114	1.00	114	LIGHTING , 236	15	3 B	4		SPACE			0
1173	1.00	1173	LIGHTING , 237	15	5 C	6		SPACE			0
		0	SPARE	15	7 A	8		SPACE			0
		0	SPARE	15	9 B	10		SPACE			0
		0	SPARE	15	11 C	12		SPACE			0
		0	SPARE	15	13 A	14		SPACE			0
		0	SPARE	15	15 B	16		SPACE			0
		0	SPARE	15	17 C	18		SPACE			0
		0	SPARE	15	19 A	20		SPACE			0
		0	SPARE	15	21 B	22		SPACE			0
		0	SPARE	15	23 C	24		SPACE			0
		0	SPARE	15	25 A	26		SPACE			0
		0	SPARE	15	27 B	28		SPACE			0
		0	SPARE	15	29 C	30		SPACE			0
		0	SPARE	15	31 A	32		SPACE			0
		0	SPARE	15	33 B	34		SPACE			0
		0	SPARE	15	35 C	36		SPACE			0
		0	SPARE	15	37 A	38		SPACE			0
		0	SPARE	15	39 B	40		SPACE			0
		0	SPARE	15	41 C	42		SPACE			0

BLDG: 143 FLOOR: 2 ROOM: 231B NEW TAG: N/A

RATINGS:	100A	120/208V	3 PHASE	4 WIRE	S.C.:	10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-02-02-BA	143	274	100A/3P	4 #3 AWG + #6 AWG IN 1-1/2"C

143-NLP-02-02-BA.xlsx

5 E031 PANEL 143-NLP-02-02-BA SCHEDULE
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NLP-02-02-BB DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
739	1.00	739	LIGHTING ,240,245A,254	15	1 A	2		SPACE			0
912	1.00	912	LIGHTING , 241,242,243,244,245,246,247,248	15	3 B	4		SPACE			0
625	1.00	625	LIGHTING , 249,253,255,257,259	15	5 C	6		SPACE			0
831	1.00	831	LIGHTING , 258,262,264,266,268,270,272	15	7 A	8		SPACE			0
132	1.00	132	LIGHTING , 245K	15	9 B	10		SPACE			0
876	1.00	876	LIGHTING , 261,263,265,267,269,271,273	15	11 C	12		SPACE			0
576	1.00	576	LIGHTING ,277A,280	15	13 A	14		SPACE			0
		0	SPARE	15	15 B	16		SPACE			0
		0	SPARE	15	17 C	18		SPACE			0
		0	SPARE	15	19 A	20		SPACE			0
		0	SPARE	15	21 A	22		SPACE			0
		0	SPARE	15	23 B	24		SPACE			0
		0	SPARE	15	25 A	26		SPACE			0
		0	SPARE	15	27 B	28		SPACE			0
		0	SPARE	15	29 C	30		SPACE			0
		0	SPARE	15	31 A	32		SPACE			0
		0	SPARE	15	33 B	34		SPACE			0
		0	SPARE	15	35 C	36		SPACE			0
		0	SPARE	15	37 A	38		SPACE			0
		0	SPARE	15	39 B	40		SPACE			0
		0	SPARE	15	41 C	42		SPACE			0

BLDG: 143 FLOOR: 2 ROOM: 270 NEW TAG: N/A

RATINGS:	100A	120/208V	3 PHASE	4 WIRE	S.C.:	10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-02-02-BB	143	274	100A/3P	4 #3 AWG + #6 AWG IN 1-1/2"C

143-NLP-02-02-BB.xlsx

6 E031 PANEL 143-NLP-02-02-BB SCHEDULE
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NRP-03-02-BC DATE MODIFIED: 2/13/2025

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
300	0.60	180	RECEPT., 399A, 399B	15	1 A	2	15	ADD. 399A, 399B	200.00	0.60	120
150	0.60	90	RECEPT., 399	15	3 B	4	15	RECEPT., 399C	150.00	0.60	90
150	0.60	90	RECEPT., 398	15	5 C	6	15	SPARE			0
150	0.60	90	RECEPT., 398	15	7 A	8	15	RECEPT., 392, 394	300.00	0.60	180
150	0.60	90	RECEPT., 398	20	9 B	10	15	RECEPT., 394	450.00	0.60	270
150	0.60	90	RECEPT., 398	20	11 C	12	15	RECEPT., 394	150.00	0.60	90
150	0.60	90	RECEPT., 398	20	13 A	14	15	RECEPT., 394	150.00	0.60	90
150	0.60	90	RECEPT., 398	20	15 B	16	15	RECEPT., 392	450	0.60	270
150	0.60	90	RECEPT., 399D	15	17 C	18	15	RECEPT., 392	150	0.60	90
450	0.60	270	RECEPT., 399E	20	19 A	20	15	RECEPT., 390	450	0.60	270
450	0.60	270	RECEPT., 398	15	21 B	22	15	RECEPT., 390	150	0.60	90
450	0.60	270	RECEPT., 398	15	23 C	24	15	A/V RECEPT., 399E	600	0.60	600
450	0.60	270	RECEPT., 395	15	25 A	26	15	A/V RECEPT., 399E	600	0.60	600
300	0.60	180	RECEPT., 393, 395	15	27 B	28		SPACE			0
450	0.60	270	RECEPT., 391, 393, 395	15	29 C	30		SPACE			0
450	0.60	270	RECEPT., 393	15	31 A	32		SPACE			0
450	0.60	270	RECEPT., 391	15	33 B	34		SPACE			0
300	0.60	180	RECEPT., 389, 391	15	35 C	36		SPACE			0

BLDG: 143 FLOOR: 3 ROOM: 399D NEW TAG: N/A

RATINGS:	125A	120/208V	3 PHASE	4 WIRE	S.C.:	10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-03-02-BC	143	325	125A/3P	4 #1 AWG + #6 AWG IN 1-1/2"C

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)	DESCRIPTION:	BKR (A)	CT	CT	BKR (A)	DESCRIPTION:	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)
450	0.60	270	RECEPT., 389	15	37 A	38		SPACE			0
0	0.00	0	SPARE	20	39 B	40		SPACE			0
		0	SPARE	15	41 C	42		SPACE			0
		0	SPARE	15	43 A	44		SPACE			0
		0	SPARE	15	45 B	46		SPACE			0
		0	SPARE	15	47 C	48		SPACE			0
		0	SPARE	15	49 A	50		SPACE			0
		0	SPARE	15	51 B	52		SPACE			0
		0	SPARE	15	53 C	54		SPACE			0
		0	SPARE	15	55 A	56		SPACE			0
		0	SPARE	15	57 B	58		SPACE			0
		0	SPARE	15	59 C	60		SPACE			0
		0	SPARE	15	61 A	62		SPACE			0
		0	SPARE	15	63 B	64		SPACE			0
		0	SPARE	15	65 C	66		SPACE			0
		0	SPARE	15	67 A	68		SPACE			0
		0	SPARE	15	69 B	70		SPACE			0
		0	SPARE	15	71 C	72		SPACE			0

143-NRP-03-02-BC

1 E032 PANEL 143-NRP-03-02-BC SCHEDULE
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NRP-03-02-BD DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
300	0.60	180	RECEPT., 357	15	1 A	2	15	RECEPT., 357	450	0.60	270
150	0.60	90	RECEPT., 357	15	3 B	4	15	RECEPT., 357	450	0.60	270
300	0.60	180	RECEPT., 357	15	5 C	6	15	RECEPT., 353, 355	300	0.60	180
450	0.60	270	RECEPT., 355	15	7 A	8	15	RECEPT., 349, 351	300	0.60	180
450	0.60	270	RECEPT., 353	15	9 B	10	15	RECEPT., 345, 347	300	0.60	180
450	0.60	270	RECEPT., 351	15	11 C	12	15	RECEPT., 341, 343	300	0.60	180
450	0.60	270	RECEPT., 349	15	13 A	14	15	RECEPT., 340K	450	0.60	270
450	0.60	270	RECEPT., 347	15	15 B	16	15	RECEPT., 357K	300	0.60	180
450	0.60	270	RECEPT., 345	15	17 C	18	15	RECEPT., 355K	300	0.60	180
450	0.60	270	RECEPT., 343	15	19 A	20	15	RECEPT., 304, 306	300	0.60	180
450	0.60	270	RECEPT., 341	15	21 B	22	15	RECEPT., 304, 306	600	0.60	360
450	0.60	270	RECEPT., 340	15	23 C	24	15	RECEPT., 304	300	0.60	180
450	0.60	270	RECEPT., 342	15	25 A	26	15	RECEPT., 340, 342	300	0.60	180
600	0.60	360	RECEPT., 344	15	27 B	28	15	RECEPT., 346, 348	300	0.60	180
450	0.60	270	RECEPT., 346	15	29 C	30	15	RECEPT., 350	150	0.60	90
450	0.60	270	RECEPT., 348	15	31 A	32	15	RECEPT., 352	600	0.60	360
450	0.60	270	RECEPT., 350	15	33 B	34	15	RECEPT., 354, 356	300	0.60	180
450	0.60	270	RECEPT., 354	15	35 C	36	15	ADD., 303, 340K	200	0.60	120

BLDG: 143 FLOOR: 3 ROOM: 305 NEW TAG: N/A

RATINGS:	100A	120/208V	3 PHASE	4 WIRE	S.C.:	10

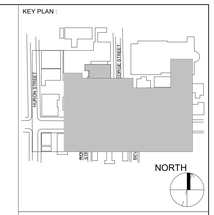
FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-03-02-BA	143	325	100/3P	4 #1 AWG + #6 AWG IN 1-1/2"C

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)	DESCRIPTION:	BKR (A)	CT	CT	BKR (A)	DESCRIPTION:	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)
450	0.60	270	RECEPT., 356	15	37 A	38	15	LIFT POWER, 307L	100	0.60	60
150	0.60	90	RECEPT., 356E	15	39 B	40		SPACE			0
150	0.60	90	RECEPT., ROOF TOP	20	41 C	42		SPACE			0
150	0.60	90	RECEPT., 307L	15, GFC	43 A	44		SPACE			0
		0	SPARE	15	45 B	46		SPACE			0
		0	SPARE	15	47 C	48		SPACE			0
		0	SPARE	15	49 A	50		SPACE			0
		0	SPARE	15	51 B	52		SPACE			0
		0	SPARE	15	53 C	54		SPACE			0
		0	SPARE	15	55 A	56		SPACE			0
		0	SPARE	15	57 B	58		SPACE			0
		0	SPARE	15	59 C	60		SPACE			0
		0	SPARE	15	61 A	62		SPACE			0
		0	SPARE	15	63 B	64		SPACE			0
		0	SPARE	15	65 C	66		SPACE			0
		0	SPARE	15	67 A	68		SPACE			0
		0	SPARE	15	69 B	70		SPACE			0
		0	SPARE	15	71 C	72		SPACE			0

143-NRP-03-02-BD.xlsx

2 E031 PANEL 143-NRP-03-02-BD SCHEDULE
SCALE: NTS

KEY PLAN :



REVISION

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
7	2025-03-07	BID ADDENDUM #01
10	2025-03-25	BID ADDENDUM #04
12	2025-04-30	ISSUED FOR CONSTRUCTION

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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 :
PANEL SCHEDULE

PROJECT NUMBER :
21590.003
DRAWING SCALE :

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

SHEET NO : **E032** REV : **12**

BLDG #: 143 PANEL TAG: 143-NPP-02-02-BB DATE MODIFIED: 2/13/2025

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
		0	SPARE	15	1 A	2		SPACE			0
		0	SPARE	15	3 B	4		SPACE			0
410	0.60	246	A/C-2.2 , 277	15	5 C	6		SPACE			0
410	0.60	246		2P	7 A	8		SPACE			0
300	0.60	180	VAV 2ND FLR	15	9 B	10		SPACE			0
450	0.60	270	VAV 2ND FLR	15	11 C	12		SPACE			0
300	0.60	180	VAV 2ND FLR	15	13 A	14		SPACE			0
300	0.60	180	EF-2.1	15	15 B	16		SPACE			0
120	0.60	200	BAS WORKSTATION#201	15	17 C	18		SPACE			0
100	1.00	100	BAS CONTROLLER	15	19 A	20		SPACE			0
100	1.00	100	BAS CONTROLLER	15	21 B	22		SPACE			0
		0	SPARE	15	23 C	24		SPACE			0
		0	SPARE	15	25 A	26		SPACE			0
		0	SPARE	15	27 B	28		SPACE			0
		0	SPARE	15	29 C	30		SPACE			0
		0	SPARE	15	31 A	32		SPACE			0
		0	SPARE	15	33 B	34		SPACE			0
		0	SPARE	15	35 C	36		SPACE			0
		0	SPARE	15	37 A	38		SPACE			0
		0	SPARE	15	39 B	40		SPACE			0
		0	SPARE	15	41 C	42		SPACE			0

BLDG: 143 FLOOR: 2 ROOM: 231B NEW TAG: N/A

RATINGS: 125A 120/208V 3 PHASE 4 WIRE S.C.: 10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-B2-02-BA	143	278	125A/3P	4 #1 AWG + #6 AWG IN 2"C

143-NPP-02-02-BB

7 E033 PANEL 143-NPP-02-02-BB
SCALE: NTS

BLDG #: 143 PANEL TAG: LP-EMB DATE MODIFIED: 2/13/2025

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
	1.00	0	EXISTING FIRE ALARM CONTROL PANEL	15	1 A	2	15	EXISTING LTG. 3RD N.			0
	1.00	0	EXISTING FIRE ALARM CONTROL PANEL	15	3 B	4	15	EXISTING LTG. THEATRE			0
	1.00	0	EXISTING ELEV. PIT AT 1A03	15	5 C	6	15	EXISTING LTG. THEATRE			0
	1.00	0	EXISTING LTG. THEATRE LOBBY	15	7 A	8	15	EXISTING LTG. 3K14, 3K16			0
	1.00	0	EXISTING FLOURECENT ABOVE DOOR	15	9 B	10	15	EXISTING ELEV. CAB, LTG.			0
	1.00	0	EXISTING RM 202 STAIRS LIGHT	15	11 C	12	15	EXISTING LTG. 3K21, 3K22			0
	1.00	0	EXISTING LTG. 2A11	15	13 A	14	15	EXISTING LTG. BASE TUNNEL			0
27.5	1.00	27.5	EXIT SIGNS, 2ND FLR	15	15 B	16	15	EXISTING PANEL RECP AUG 2001			0
822	1.00	822	EM LIGHTING 231, 233, 235, 237, 237A, 237B, 237C	15	17 C	18	15	EXISTING FRIDGE RM 245			0
186	1.00	186	EM LIGHTING, 237V	15	19 A	20	15	EXIT SIGNS, 3RD FLR	52.5	1.00	52.5
163	1.00	163	EM LIGHTING, 240, 240K, 242, 245K, 251	15	21 B	22	15	EM LIGHTING, 307, 320K, 321, 323, 325A, 325V, 327	477	1.00	477
216	1.00	216	EM LIGHTING, 245K, 274, 277K, 280	15	23 C	24	15	EM LIGHTING, 301V, 305K, 340K, 344, 352, 357, 357A, 357B, 357V, 358, 360V	344	1.00	344
150	1.00	150	LAN RECEPT., 236	15	25 A	26	15	EM LIGHTING, 363, 363V, 365K, 370K, 371, 372, 377, 397K, 398, 399, 399A, 399B	454	1.00	454
150	1.00	150	LAN RECEPT., 238	30	27 B	28	15	SECURITY PANEL, 233A	200	1.00	200
150	1.00	150	LAN RECEPT., 277	30	29 C	30	15	SECURITY PANEL, 277	200	1.00	200
150	1.00	150	LAN RECEPT., 277	15	31 A	32	15	SECURITY PANEL, 233A	200	1.00	200
150	1.00	150	LAN RECEPT., 399E	30	33 B	34	15	SECURITY PANEL, 325B	200	1.00	200
150	1.00	150	LAN RECEPT., 399E	15	35 C	36	15	SECURITY PANEL, 399E	200	1.00	200
150	1.00	150	LAN RECEPT., 325B	30	37 A	38	15	FIRE ALARM DGP, #372	500	0.80	400
150	1.00	150	LAN RECEPT., 325B	15	39 B	40		SPACE			0
		0	SPARE	15	41 C	42		SPACE			0

BLDG: 143 FLOOR: 3 ROOM: 350A NEW TAG: N/A

RATINGS: 100A 120/208V 3 PHASE 4 WIRE S.C.: 10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	PP-EM	143	350A	100	N/A

LP-EMB

4 E033 PANEL LP-EMB
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NLP-03-02-BD DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
742	1.00	742	LIGHTING, 340,342,346,348,350,354,358	15	1 A	2		SPACE			0
110	1.00	110	LIGHTING, 301V, 305A	15	3 B	4		SPACE			0
848	1.00	848	LIGHTING, 341, 343, 345, 347, 349, 351, 353, 355	15	5 C	6		SPACE			0
176	0.80	105.6	LIGHTING, 340K,357,357K	15	7 A	8		SPACE			0
		0	SPARE	15	9 B	10		SPACE			0
		0	SPARE	15	11 C	12		SPACE			0
		0	SPARE	15	13 A	14		SPACE			0
		0	SPARE	15	15 B	16		SPACE			0
		0	SPARE	15	17 C	18		SPACE			0
		0	SPARE	15	19 A	20		SPACE			0
		0	SPARE	15	21 B	22		SPACE			0
		0	SPARE	15	23 C	24		SPACE			0
		0	SPARE	15	25 A	26		SPACE			0
		0	SPARE	15	27 B	28		SPACE			0
		0	SPARE	15	29 C	30		SPACE			0
		0	SPARE	15	31 A	32		SPACE			0
		0	SPARE	15	33 B	34		SPACE			0
		0	SPARE	15	35 C	36		SPACE			0
		0	SPARE	15	37 A	38		SPACE			0
		0	SPARE	15	39 B	40		SPACE			0
		0	SPARE	15	41 C	42		SPACE			0

BLDG: 143 FLOOR: 3 ROOM: 305 NEW TAG: N/A

RATINGS: 100A 120/208V 3 PHASE 4 WIRE S.C.: 10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-02-02-BA	143	325	100A/3P	4 #5 AWG + #8 AWG IN 1-1/2"C

143-NLP-03-02-BD.xlsx

1 E033 PANEL 143-NLP-03-02-BD SCHEDULE
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NPP-03-02-BB DATE MODIFIED: 2/13/2025

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
100	0.60	60	CAB LIGHT AND FAN	15	1 A	2	15	EF-R.1 , ROOF TOP	100	0.60	60
150	0.60	90	CAP AUX. EQUIPMENT. 358E	15	3 B	4	15	MOD., ROOF TOP	100	0.60	60
100	0.60	60	BP-1, 398	15	5 C	6	25	C/U-R.3, ROOF TOP	1372.80	0.60	823.68
65	0.65	100	EF-3.1, 399D	15	7 A	8	2P		1372.80	0.60	823.68
					9 B	10	25	C/U-R.3, ROOF TOP	1372.80	0.60	823.68
500	0.60	300	EBH-3.1, EBH-3.2, 399A, 399B	15	11 C	12	2P		1372.80	0.60	823.68
500	0.60	300		2P	13 A	14	20, GFC	RECEPT., ROOF TOP	150.00	0.60	90
100	0.60	60	EF-3.1, 399D	15	15 B	16	15	SNOW MELT SENSOR, ROOF TOP	100.00	0.60	60
200	1.00	200	PENTHOUSE BAS CONTROLLER	15	17 C	18		EF-3.1,			0
		0	SPARE	15	19 A	20		SPACE			0
		0	SPARE	15	21 B	22		SPACE			0
		0	SPARE	15	23 C	24		SPACE			0
		0	SPARE	15	25 A	26		SPACE			0
		0	SPARE	15	27 B	28		SPACE			0
		0	SPARE	15	29 C	30		SPACE			0
		0	SPARE	15	31 A	32		SPACE			0
		0	SPARE	15	33 B	34		SPACE			0
		0	SPARE	15	35 C	36		SPACE			0
		0	SPARE	15	37 A	38		SPACE			0
		0	SPARE	15	39 B	40		SPACE			0
		0	SPARE	15	41 C	42		SPACE			0

BLDG: 143 FLOOR: 3 ROOM: 372 NEW TAG: N/A

RATINGS: 125A 120/208V 3 PHASE 4 WIRE S.C.: 10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-02-02-BC	143	274	125A/3P	4 #1 AWG + #6 AWG IN 2" C

143-NPP-03-02-BB

8 E033 PANEL 143-NPP-03-02-BB
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NPP-01-02-BB DATE MODIFIED: 2/13/2025

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
			SPARE	20	1 A	2		SPACE			0
		0	SPARE	15	3 B	4		SPACE			0
1600	0.60	960	KEU-1.1, 126	15	5 C	6		SPACE			0
1600	0.60	960		3P	7 A	8		SPACE			0
1600	0.60	960			9 B	10		SPACE			0
400	0.60	240	VAV 1ST FLR	15	11 C	12		SPACE			0
100	0.60	60	P-DHWR-B.1 , B3	15	13 A	14		SPACE			0
400	0.60	240	P-B.1 , B4	15	15 B	16		SPACE			0
500	0.60	300	HEAT TRACE , B4	15	17 C	18		SPACE			0
		0	SPARE	15	19 A	20		SPACE			0
		0	SPARE	15	21 B	22		SPACE			0
		0	SPARE	15	23 C	24		SPACE			0
		0	SPARE	15	25 A	26		SPACE			0
		0	SPARE	15	27 B	28		SPACE			0
		0	SPARE	15	29 C	30		SPACE			0
		0	SPARE	15	31 A	32		SPACE			0
		0	SPARE	15	33 B	34		SPACE			0
		0	SPARE	15	35 C	36		SPACE			0
		0	SPARE	15	37 A	38		SPACE			0
		0	SPARE	15	39 B	40		SPACE			0
		0	SPARE	15	41 C	42		SPACE			0

BLDG: 143 FLOOR: 1 ROOM: 126B NEW TAG: N/A

RATINGS: 100A 120/208V 3 PHASE 4 WIRE S.C.: 10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	EXISTING PP-GF	143	B013	100A/3P	4 #3 AWG + #8 AWG IN 1-1/2"C

143-NPP-01-02-BB

5 E033 PANEL 143-NPP-01-02-BB
SCALE: NTS

BLDG #: 143 PANEL TAG: LP-EMA DATE MODIFIED: 2/12/2025

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
		0	EXISTING LTG. BASE S. TUNNELL	15	1 A	2	15	EXISTING ELEV. CAB LTG. BAIV,			0
		0	EXISTING LTG. BASE S. TUNNELL	15	3 B	4	15	EXISTING ELEV. PIT LST FL. 1A16			0
		0	EXISTING EM LTG. BA17	15	5 C	6	15	EXISTING ELEV. CAB LTG. 1A09			0
27.5	1.00	27.5	EXIT SIGNS, 1ST FL.	15	7 A	8	15	EM LIGHTING, 106, 115K, 120V, 120S, 122V	220	1.00	220
		0	EXISTING L. DOCK HEAT TRACING	15	9 B	10	15	EXISTING SUMP PUMP			0
256	1.00	256	EM LIGHTING, 122, 125, 126A	15	11 C	12	15	SECURITY PANEL, 122	200.00	1.00	1
108	1.00	108	EM LIGHTING, 114, 118, 118A	15	13 A	14		SPACE			0
323	1.00	323	EM LIGHTING, 107, 107B, 115, 119	15	15 B	16		SPACE			0
	1.00	0	LAN RECEPT., 238	15	17 C	18		SPACE			0
	1.00	0	LAN RECEPT., 238	30	19 A	20		SPACE			0
		0	SPARE	15	21 B	22		SPACE			0
		0	SPARE	15	23 C	24		SPACE			0
		0	SPARE	15	25 A	26		SPACE			0
		0	SPARE	15	27 B	28		SPACE			0
		0	SPARE	15	29 C	30		SPACE			0

BLDG: 143 FLOOR: B ROOM: B013 NEW TAG: N/A

RATINGS: 100A 120/208V 3 PHASE 4 WIRE S.C.: 10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
EXISTING 15KVA TRANSFORMER		143	B013	N/A	N/A

LP-EMA

2 E033 PANEL LP-EMA
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NPP-03-02-BD DATE MODIFIED: 2/13/2025

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
316	0.60	189.6	A/C-3.2, 325B	15	1 A	2	35	C/U-R.1 , ROOF TOP	2500	0.60	1500
316	0.60	189.6		2P	3 B	4	2P		2500	0.60	1500
300	0.60	180	VAV, 307, 320K, 324	15	5 C	6	35	C/U-R.2., ROOF TOP	2500	0.60	1500
500	0.60	300	VAV, 305K, 344, 345, 347, 353, 356	15	7 A	8	2P		2500	0.60	1500
100	1.00	100	BAS CONTROLLER	15	9 B	10	20	RECEPT., ROOF TOP	150.00	0.60	90
			SPARE	15	11 C	12	25	C/U-R.5., ROOF TOP	1372.80	0.60	823.68
100	0.60	60	CAB DUPLEX, 358E	15	13 A	14	2P		1372.80	0.60	823.68
100	0.60	60	CAB SECURITY, 358E	15	15 B	16	20	RECEPT., ROOF TOP	150.00	0.60	90
		0	SPARE	15	17 C	18		SPACE			0
		0	SPARE	15	19 A	20		SPACE			0
		0	SPARE	15	21 B	22		SPACE			0
		0	SPARE	15	23 C	24		SPACE			0
		0	SPARE	15	25 A	26		SPACE			0
		0	SPARE	15	27 B	28		SPACE			0
		0	SPARE	15	29 C	30		SPACE			0
		0	SPARE	15	31 A	32		SPACE			0
		0	SPARE	15	33 B	34		SPACE			0
		0	SPARE	15	35 C	36		SPACE			0
		0	SPARE	15	37 A	38		SPACE			0
		0	SPACE		39 B	40		SPACE			0
		0	SPACE		41 C	42		SPACE			0

BLDG: 143 FLOOR: 3 ROOM: 305 NEW TAG: N/A

RATINGS: 100A 120/208V 3 PHASE 4 WIRE S.C.: 10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-B3-02-BA	143	325	100A/3P	4 #3 AWG + #8 AWG IN 1-1/2"C

143-NPP-03-02-BD

3 E033 PANEL 143-NPP-03-02-BD
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NPP-02-02-BA DATE MODIFIED: 2/13/2025

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
410	0.60	246	A/C-2.1 , 237	15	1 A	2		SPACE			0
410	0.60	246		2P	3 B	4		SPACE			0
300	0.60	180	VAV 2ND FLR	15	5 C	6		SPACE			0
300	0.60	180	VAV 2ND FLR	15	7 A	8		SPACE			0
			SPARE	15	9 B	10		SPACE			0
		0	SPARE	15	11 C	12		SPACE			0
		0	SPARE	15	13 A	14		SPACE			0
		0	SPARE	15	15 B	16		SPACE			0
		0	SPARE	15	17 C	18		SPACE			0
		0	SPARE	15	19 A	20		SPACE			0
		0	SPARE	15	21 B	22		SPACE			0
		0	SPARE	15	23 C	24		SPACE			0
		0	SPARE	15	25 A	26		SPACE			0
		0	SPARE	15	27 B	28		SPACE			0
		0	SPARE	15	29 C	30		SPACE			0
		0	SPARE	15	31 A	32		SPACE			0
		0	SPARE	15	33 B	34		SPACE			0
		0	SPARE	15	35 C	36		SPACE			0
		0	SPARE	15	37 A	38		SPACE			0
		0	SPARE	15	39 B	40		SPACE			0
		0	SPARE	15	41 C	42		SPACE			0

BLDG: 143 FLOOR: 2 ROOM: 231B NEW TAG: N/A

RATINGS: 125A 120/208V 3 PHASE 4 WIRE S.C.: 10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-02-02-BA	143	278	125A/3P	4 #1 AWG + #6 AWG IN 2"C

143-NPP-02-02-BA

6 E033 PANEL 143-NPP-02-02-BA
SCALE: NTS

BLDG #: 143 PANEL TAG: LP-BEMA DATE MODIFIED: 2025-02-12

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
		0	EXISTING CLG. OUTLETS 2B10	15	1 A	2	15	EXISTING CLG. OUTLETS 2B12, 2B14			0
		0	EXISTING BACK ROOM LTG + PUGS	15	3 B	4	15	EXISTING CLG. OUTLETS 2B12, 2B14			0
		0	EXISTING LTG. 3B14	15	5 C	6	15	EXISTING CLG. OUTLETS 2B12, 2B14			0
		0	SPARE	15	7 A	8	15	EXISTING CLG. OUTLETS 2B12, 2B14			0
		0	SPARE	15	9 B	10	15	EXISTING CLG. OUTLETS 2B12, 2B14			0
		0	EXISTING CASH COMPUTER SERVER	15	11 C	12	15	EXISTING CLG. OUTLETS 2B12, 2B14			0
		0	EXISTING RECEIVING RECEPTACLES	15	13 A	14		SPACE			0
		0	EXISTING RECEIVING RECEPTACLES	15	15 B	16		SPACE			0
		0	EXISTING RECEIVING RECEPTACLES	15	17 C	18		SPACE			0
		0	EXISTING RECEIVING RECEPTACLES	15	19 A	20		SPACE			0
		0	EXISTING RECEIVING RECEPTACLES	15	21 B	22		SPACE			0
		0	SPACE		23 C	24		SPACE			0
		0	SPACE		25 A	26		SPACE			0
		0	SPACE		27 B	28		SPACE			0
		0	SPACE		29 C	30		SPACE			0

BLDG: 143 FLOOR: B ROOM: B013 NEW TAG: N/A

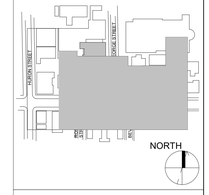
RATINGS: 100A 120/208V 3 PHASE 4 WIRE S.C.: 10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	EXISTING 15KVA TRANSFORMER	143	B013	N/A	N/A

LP-BEMA.xlsx

3 E033 PANEL LP-BEMA
SCALE: NTS

KEY PLAN :



REVISION

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
10	2025-03-25	BID ADDENDUM #04
12	2025-04-30	ISSUED FOR CONSTRUCTION

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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 :
PANEL SCHEDULE

PROJECT NUMBER :
21590.003
DRAWING SCALE :

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

SHEET NO : **E033** REV : **12**

BLDG #: 143 PANEL TAG: 143-NDP-02-06-BA DATE MODIFIED: 2025-02-27

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
25000	100.00	2500000	TRANSFORMER 143-NTX-02-06-BA	90	1 A	2	20	SPACE			0
25000	100.00	2500000		↓	3 B	4	↓				0
25000	100.00	2500000		3P	5 C	6	3P				0
25000	100.00	2500000	TRANSFORMER 143-NTX-02-06-BC	90	7 A	8	20	SPACE			0
25000	100.00	2500000		↓	9 B	10	↓				0
25000	100.00	2500000		3P	11 C	12	3P				0
25000	100.00	2500000	TRANSFORMER 143-NTX-02-06-BB	90	13 A	14		SPACE			0
25000	100.00	2500000		↓	15 B	16		SPACE			0
25000	100.00	2500000		3P	17 C	18		SPACE			0
2700	100.00	270000	TRANSFORMER 143-NTX-02-06-BB	20	19 A	20		SPACE			0
2700	100.00	270000		↓	21 B	22		SPACE			0
2700	100.00	270000		3P	23 C	24		SPACE			0
		0	SPARE	90	25 A	26		SPACE			0
		0		↓	27 B	28		SPACE			0
		0		3P	29 C	30		SPACE			0
		0	SPARE	90	31 A	32		SPACE			0
		0		↓	33 B	34		SPACE			0
		0		3P	35 C	36		SPACE			0
		0	SPARE	90	37 A	38		SPACE			0
		0		↓	39 B	40		SPACE			0
		0		3P	41 C	42		SPACE			0

BLDG: 143 FLOOR: 2 ROOM: 274 NEW TAG: N/A

RATINGS: 400A | 600V | 3 PHASE | 3 WIRE | S.C.: 50

FED FROM: PANEL TAG: EXISTING PP-MD | BLDG #: 143 | ROOM #: B013 | BREAKER SIZE: 400A/3P | FEEDER SIZE: 3 #000 KCMIL + #2 AWG IN 4"C

143-NDP-02-06-BA.xlsx

4 / E034 PANEL 143-NDP-02-06-BA
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NDP-02-02-BA DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)
		0	PANEL 143-NRP-02-02-BA, 231B	125	1 A	2	125	ELEVATOR MOTOR			0
		0		↓	3 B	4	↓				0
		0		3P	5 C	6	3P				0
		0	PANEL 143-NRP-02-02-BC, 280	125	7 A	8		SPACE			0
		0		↓	9 B	10		SPACE			0
		0		3P	11 C	12		SPACE			0
		0	PANEL 143-NPP-02-02-BA, 231D	125	13 A	14		SPACE			0
		0		↓	15 B	16		SPACE			0
		0		3P	17 C	18		SPACE			0
		0	SPARE	125	19 A	20		SPACE			0
		0		↓	21 B	22		SPACE			0
		0		3P	23 C	24		SPACE			0
		0	SPARE	125	25 A	26		SPACE			0
		0		↓	27 B	28		SPACE			0
		0		3P	29 C	30		SPACE			0
		0	SPARE	125	31 A	32		SPACE			0
		0		↓	33 B	34		SPACE			0
		0		3P	35 C	36		SPACE			0
		0	SPARE	125	37 A	38		SPACE			0
		0		↓	39 B	40		SPACE			0
		0		3P	41 C	42		SPACE			0

BLDG: 143 FLOOR: 2 ROOM: 278 NEW TAG: N/A

RATINGS: 400A | 120/208V | 3 PHASE | 4 WIRE | S.C.: 10

FED FROM: PANEL TAG: 143-NTX-02-06-BA | BLDG #: 143 | ROOM #: 274 | BREAKER SIZE: N/A | FEEDER SIZE: 4 #000KCMIL + #4 AWG IN 3"C

143-NDP-02-02-BA.xlsx

1 / E034 PANEL 143-NDP-02-02-BA SCHEDULE
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NDP-03-02-BA DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
760	1.00	760	143-NPP-03-02-BD	100	1 A	2	100	SPARE			0
760	1.00	760		↓	3 B	4	↓				0
760	1.00	760		3P	5 C	6	3P				0
610	1.00	610	143-NRP-03-02-BA	100	7 A	8	100	SPARE			0
610	1.00	610		↓	9 B	10	↓				0
610	1.00	610		3P	11 C	12	3P				0
674	1.00	674	143-NLP-03-02-BA	100	13 A	14		SPACE			0
674	1.00	674		↓	15 B	16		SPACE			0
674	1.00	674		3P	17 C	18		SPACE			0
625	1.00	625	143-NLP-03-02-BD	100	19 A	20		SPACE			0
625	1.00	625		↓	21 B	22		SPACE			0
625	1.00	625		3P	23 C	24		SPACE			0
2970	1.00	2970	143-NRP-03-02-BD	100	25 A	26		SPACE			0
2970	1.00	2970		↓	27 B	28		SPACE			0
2970	1.00	2970		3P	29 C	30		SPACE			0
		0	SPARE	100	31 A	32		SPACE			0
		0		↓	33 B	34		SPACE			0
		0		3P	35 C	36		SPACE			0
		0	SPARE	100	37 A	38		SPACE			0
		0		↓	39 B	40		SPACE			0
		0		3P	41 C	42		SPACE			0

BLDG: 143 FLOOR: 3 ROOM: 325 NEW TAG: N/A

RATINGS: 225A | 120/208V | 3 PHASE | 4 WIRE | S.C.: 10

FED FROM: PANEL TAG: EXISTING PP-DP | BLDG #: 143 | ROOM #: B013 | BREAKER SIZE: 200A/3P | FEEDER SIZE: 4 #4/0 AWG + #4 AWG IN 3"C

143-NDP-03-02-BA.xlsx

5 / E034 PANEL 143-NDP-03-02-BA
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NDP-02-02-BB DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
453	1.00	453	PANEL 143-NLP-03-02-BA, 231B	100	1 A	2	100	PANEL 143-NLP-03-02-BB, 359A	540.00	1.00	540
453	1.00	453		↓	3 B	4	↓		540.00	1.00	540
453	1.00	453		3P	5 C	6	3P		540.00	1.00	540
1564	1.00	1564	PANEL 143-NLP-02-02-BB, 280	100	7 A	8	100	PANEL 143-NLP-03-02-BC, 399D	1063.00	1.00	1063
1564	1.00	1564		↓	9 B	10	↓		1063.00	1.00	1063
1564	1.00	1564		3P	11 C	12	3P		1063.00	1.00	1063
		0	SPARE	100	13 A	14		SPACE			0
		0		↓	15 B	16		SPACE			0
		0		3P	17 C	18		SPACE			0
		0	SPARE	100	19 A	20		SPACE			0
		0		↓	21 B	22		SPACE			0
		0		3P	23 C	24		SPACE			0
		0	SPARE	100	25 A	26		SPACE			0
		0		↓	27 B	28		SPACE			0
		0		3P	29 C	30		SPACE			0
		0	SPARE	100	31 A	32		SPACE			0
		0		↓	33 B	34		SPACE			0
		0		3P	35 C	36		SPACE			0
		0	SPARE	100	37 A	38		SPACE			0
		0		↓	39 B	40		SPACE			0
		0		3P	41 C	42		SPACE			0

BLDG: 143 FLOOR: 2 ROOM: 278 NEW TAG: 10

RATINGS: 400A | 120/208V | 3 PHASE | 4 WIRE | S.C.: 10

FED FROM: PANEL TAG: 143-NTX-02-06-BB | BLDG #: 143 | ROOM #: 278 | BREAKER SIZE: N/A | FEEDER SIZE: 4 300KCMIL + #4 AWG IN 3"C

143-NDP-02-02-BB.xlsx

2 / E034 PANEL 143-NDP-02-02-BB
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NDP-02-02-BC DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)
3710	1.00	3710	PANEL 143-NRP-03-02-BB, 359A	125	1 A	2	125	SPARE			0
3710	1.00	3710		↓	3 B	4	↓				0
3710	1.00	3710		3P	5 C	6	3P				0
2150	1.00	2150	PANEL 143-NRP-03-02-BC, 399D	125	7 A	8		SPACE			0
2150	1.00	2150		↓	9 B	10		SPACE			0
2150	1.00	2150		3P	11 C	12		SPACE			0
1400	1.00	1400	PANEL 143-NPP-03-02-BB, 399D	125	13 A	14		SPACE			0
1400	1.00	1400		↓	15 B	16		SPACE			0
1400	1.00	1400		3P	17 C	18		SPACE			0
		0	SPARE	125	19 A	20		SPACE			0
		0		↓	21 B	22		SPACE			0
		0		3P	23 C	24		SPACE			0
		0	SPARE	125	25 A	26		SPACE			0
		0		↓	27 B	28		SPACE			0
		0		3P	29 C	30		SPACE			0
		0	SPARE	125	31 A	32		SPACE			0
		0		↓	33 B	34		SPACE			0
		0		3P	35 C	36		SPACE			0
		0	SPARE	125	37 A	38		SPACE			0
		0		↓	39 B	40		SPACE			0
		0		3P	41 C	42		SPACE			0

BLDG: 143 FLOOR: 2 ROOM: 274 NEW TAG: N/A

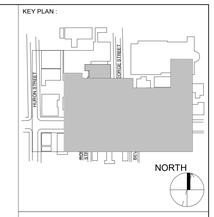
RATINGS: 400A | 120/208V | 3 PHASE | 4 WIRE | S.C.: 10

FED FROM: PANEL TAG: 143-NTX-02-06-BC | BLDG #: 143 | ROOM #: 274 | BREAKER SIZE: N/A | FEEDER SIZE: 4 250KCMIL + #4 AWG IN 3"C

143-NDP-02-02-BC.xlsx

3 / E034 PANEL 143-NDP-02-02-BC
SCALE: NTS

KEY PLAN :



REVISION

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
7	2025-03-07	BID ADDENDUM #01
12	2025-04-30	ISSUED FOR CONSTRUCTION

THIS DRAWING IS "ISSUED FOR CONSTRUCTION" AND IS CONSIDERED COMPLEMENTARY TO THE CONTRACT DOCUMENTS. TO THE BEST OF OUR KNOWLEDGE IT IS AN ACCURATE REPRESENTATION OF DOCUMENTED REVISIONS. IN THE CASE OF ANY DISCREPANCY, OMISSION OR CONFLICT BETWEEN THIS "ISSUED FOR CONSTRUCTION" DOCUMENT AND THE CONTRACT DOCUMENTS, THE CONTRACTOR IS TO PROMPTLY BRING IT TO THE ATTENTION OF THE CONSULTANT.

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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 :
PANEL SCHEDULE

PROJECT NUMBER :
21590.003

DRAWING SCALE :

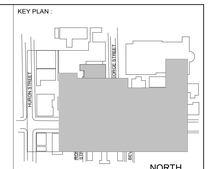
DRAWN BY :	CHECKED BY :	DATE :
Author	Checker	Issue Date

SHEET NO : **E034**

REV : **12**

SCOPE ITEM	AUDIOVISUAL CONTRACTOR (A.V.C.)	ELECTRICAL CONTRACTOR (E.C.)	GENERAL CONTRACTOR (G.C.)	COMMUNICATIONS CONTRACTOR (C.C.)
AV SYSTEMS CONDUIT, BACKBOXES AND CABLE TRAYS	-	PROVIDE PULL-READY SYSTEM INCLUDING ALL CONDUIT, BACKBOXES AND CABLE TRAYS. ALL CONDUITS TO BE COMPLETE WITH PULLSTRING.	-	-
AV WALLBOX CONNECTOR PLATES, CUSTOM OR STANDARD	PROVIDE, FINISH PER ARCHITECT'S INSTRUCTIONS	-	-	-
AV FLOORBOXES	MODIFY PLATES TO SUIT FLOORBOX AND INSTALL	PROVIDE FLOORBOX; COORDINATE BOX TYPE WITH AV CONSULTANT; SUPPLY SAMPLE IF REQUESTED, SUPPLY BLANK PLATES TO AV CONTRACTOR	-	-
AV SYSTEMS CABLE (LOW VOLTAGE, INCLUDING NETWORK CABLING FOR AV SYSTEMS)	PROVIDE	-	-	-
AC OUTLETS FOR DISPLAYS, PROJECTORS, AV EQUIPMENT, FLOORBOXES, ETC	-	PROVIDE	-	-
DIRECT POWER CONNECTIONS FOR AV SYSTEMS RACKS	PROVIDE DISTRIBUTION WITHIN RACK	PROVIDE POWER CIRCUITS AS REQUIRED AT LOCATIONS NOTED ON DRAWINGS. COORDINATE LOCATIONS WITH AV CONTRACTOR. PROVIDE SEPARATE NEUTRAL CONDUCTOR FOR EACH CIRCUIT.	-	-
LAN DROPS FOR OWNER SUPPLIED NETWORK	SPECIFY LOCATIONS AND COORDINATE WITH C.C.	-	-	PROVIDE. REFER TO COORDINATION MATRIX FOR LOCATIONS AND QUANTITIES
PATCH CABLING TO CLIENT NETWORK FOR AV DEVICES	INSTALL	-	-	SUPPLY
MILLWORK FURNITURE (TABLES, RACK ENCLOSURES, LECTERNS AND CREDENZAS)	FIT-UP MILLWORK WITH AV DEVICES. COORDINATE WITH DESIGNERS, G.C., E.C. AND FURNITURE/MILLWORK MANUFACTURER	PROVIDE POWER AND LAN CONNECTIVITY SHOWN ON DRAWINGS AND INSTALL ROUGH-INS AS REQUIRED	PROVIDE AND COORDINATE CUTOUTS, WIRING AND DEVICE PLACEMENTS	-
DISPLAY AND PROJECTOR MOUNTING	SUPPLY AND INSTALL STANDARD OR CUSTOM BRACKETS AS REQUIRED	-	PROVIDE BLOCKING AND MISCELLANEOUS METALS AS REQUIRED	-
CEILING MOUNTED LOUDSPEAKER BACKBOXES INTO DRYWALL CEILINGS	PROVIDE	PROVIDE CONDUIT TO SPEAKER BACKBOXES. COORDINATE WITH AV CONTACTOR ON SITE	PROVIDE CEILING SPEAKER CUTOUTS	-
CEILING MOUNTED LOUDSPEAKERS INTO TILE CEILINGS	PROVIDE	-	PROVIDE CEILING SPEAKER CUTOUTS	-
AV SYSTEMS ELECTRONICS, HARDWARE, RACKS PERMANENT AND PORTABLE	PROVIDE; REUSE OWNER SUPPLIED EQUIPMENT AS NOTED	-	-	-
AV CONTROL SYSTEM PAGE DESIGN AND TESTING	PROVIDE; WRITE ALL PROGRAMMING CODE; DESIGN AND IMPLEMENT	-	-	-
LOW VOLTAGE RELAY CONTROLLERS (LVC) FOR MOTORIZED PROJECTION SCREENS AND LIFTS	SUPPLY LVC TO E.C.; PROVIDE LOW VOLTAGE CONTROL CABLE	PROVIDE HIGH VOLTAGE CABLE, TERMINATIONS AND LABOR AS REQUIRED	PROVIDE ACCESS HATCH AS REQUIRED FOR BACKBOX ACCESS	-
INTELLIGENT LIGHTING AND BLIND/SHADE SYSTEMS	CONNECT AV CONTROL SYSTEM TO RS-232 PROTOCOL CONVERTER. COORDINATE INSTALLATION LOCATION WITH E.C.	PROVIDE LIGHTING/BLIND SYSTEM TO RS-232 PROTOCOL CONVERTER. COORDINATE INSTALLATION LOCATION WITH A.V.C.	PROVIDE BLINDS SYSTEM AND SHADE MOTOR GROUP CONTROLLERS.	-
CEILING PROJECTION SCREENS	PROVIDE	PROVIDE HIGH VOLTAGE CABLE TO LVC	FINISH CEILING AFTER INSTALLATION.	-
FIRE ALARM CONNECTION	PROVIDE MUTE FUNCTIONALITY ON ALL SOUND SYSTEMS. TO BE TRIGGERED ON ACTIVATION OF FIRE ALARM.	PROVIDE FACP DRY CONTACT RELAY CONNECTION TO AV CONTRACTOR	-	-
THE SCOPE OF WORK OF THE TRADES AS IT RELATES TO AUDIO VISUAL SYSTEMS IS DESCRIBED IN THE TABLE ABOVE. THE TERM "PROVIDE" MEANS "SUPPLY, INSTALL, TERMINATE, TEST AND COMMISSION"				

KEY PLAN :



REVISION

NO.	DATE	DESCRIPTION
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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 :
AV DIVISION OF RESPONSIBILTY MATRIX

PROJECT NUMBER :
21590.003
DRAWING SCALE :
1 : 1500
DRAWN BY : Author | CHECKED BY : Checker | DATE: Issue Date
SHEET NO : **E035** | REV : **12**

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. 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
W-2	SECURITY CONTRACTOR	ELECTRICAL CONTRACTOR	SECURITY CONTRACTOR	
W-3	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	WIRING FROM FIRE ALARM PULL STATION TO FIRE MAGNETIC LOCK.
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

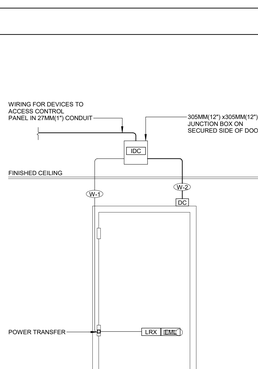
DEVICE	MOUNTING HEIGHT	DEVICE	MOUNTING HEIGHT
CR	1100 MM (43 IN.) AFF	MRX	WALL OR CEILING MOUNT ABOVE DOOR AS RECOMMENDED BY MANUFACTURER
PRX	1100 MM (43 IN.) AFF	DA	CEILING MOUNT ABOVE DOOR

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

GENERAL NOTES:

1. REFER TO SECURITY PLAN DRAWINGS, ELECTRICAL DRAWINGS AND DOOR HARDWARE SCHEDULE FOR ADDITIONAL DETAILS.
2. COORDINATE EXACT LOCATIONS OF DEVICES ON SITE WITH ELECTRICAL AND DOOR HARDWARE CONTRACTOR.
3. ALL TERMINAL STRIPS SHALL BE PROVIDED AND INSTALLED BY THE SECURITY CONTRACTOR.
4. THIS DIAGRAM SHALL BE READ IN CONJUNCTION WITH THE DOOR AND HARDWARE SCHEDULE.
5. ALL WIRING SHALL BE INSTALLED IN CONDUITS. ALL CONDUIT SHALL BE 19mm UNLESS OTHERWISE NOTED.
6. PRIOR 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.
7. PROVIDE ALL ACTIVE AND PASSIVE HARDWARE, ALL WIRING AND PROGRAMING OF SECURITY SYSTEM SOFTWARE TO FACILITATE EACH MODE OF OPERATION FOR EACH DOOR.
8. ALL DOOR HARDWARE DEVICES PROVIDED SHALL MEET ALL REQUIREMENTS LISTED IN THE ACCESSIBILITY FOR ONTARIANS WITH DISABILITIES ACT (AODA).
9. 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 E036 DOOR DETAIL NOTES



GENERAL NOTES:

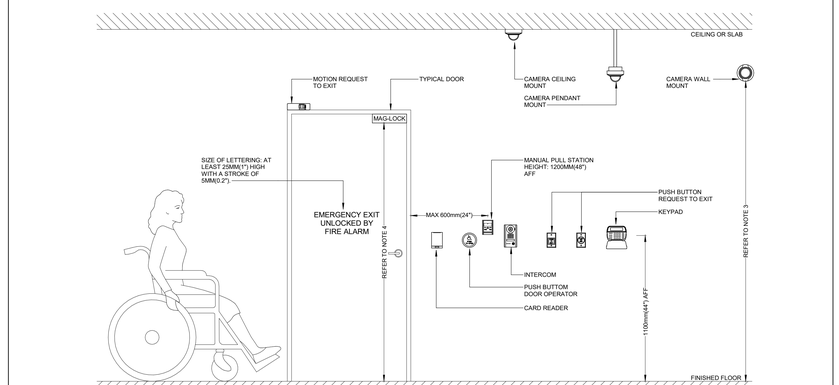
1. REFER TO DOOR DETAIL NOTES FOR ADDITIONAL INFORMATION.
2. DOOR HANDLES SHOWN ARE DIAGRAMMATIC. REFER TO DOOR HARDWARE SCHEDULE FOR EXACT DOOR HANDLE TYPE.

DRAWING NOTES:

S-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.

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

3 E036 DOOR DETAIL 1



NOTES:

1. REFER TO SECURITY PLAN DRAWINGS FOR LOCATIONS AND QUANTITIES OF DEVICES.
2. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. REFER TO SECURITY PLAN DRAWINGS FOR MOUNTING HEIGHTS OF EACH CAMERA.
4. A CLEARANCE OF AT LEAST 1980MM(78") MINIMUM MUST BE MAINTAINED

1 E036 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) ELECTRICAL LATCH RETRACTION (ELR) ELECTRIC MORTISE LOCK (EML)	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 DIV8 SCHEDULE TO COORDINATE CONDUIT REQUIREMENTS FOR DOOR LOCK MECHANISM, REFER TO DETAIL #E0S38 - NOTE # W-1
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/EML		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/IP 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	
NODES/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	
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	
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

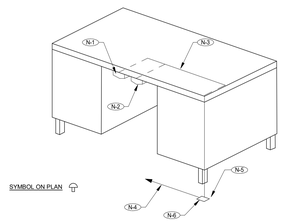
GENERAL NOTES:

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

2 E036 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:

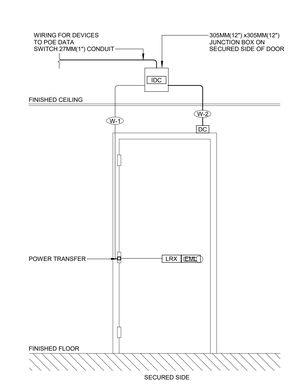
1. DIAGRAM SHOWN IMPLIES INTENT AND NOT A SPECIFIC MANUFACTURER'S MODEL. REFER TO SPECIFICATIONS FOR REQUIREMENTS AND PLANS FOR EXACT QUANTITY OF DEVICES. PROVIDE AND INSTALL ALL MAJOR AND MISCELLANEOUS MOUNTING HARDWARE TO FACILITATE PROPER MOUNTING AS RECOMMENDED BY MANUFACTURER.
2. COORDINATE EXACT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

8 E036 UNDER DESK MOUNTED PANIC RESET BUTTON DETAIL

GENERAL NOTES:

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

4 E036 DOOR DETAIL 2

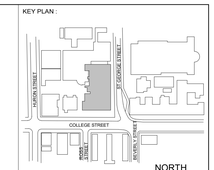


GENERAL NOTES:

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

5 E036 DOOR DETAIL 3

KEY PLAN :



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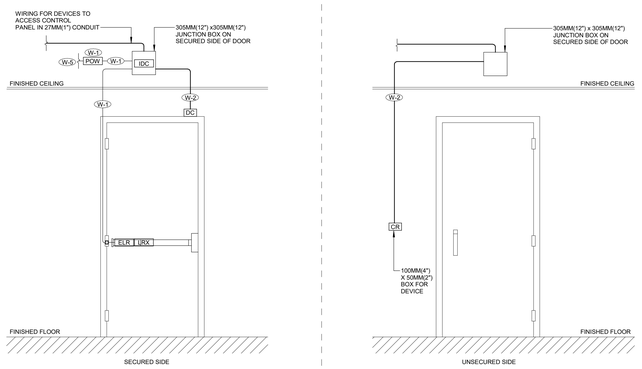


GENERAL NOTES:

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

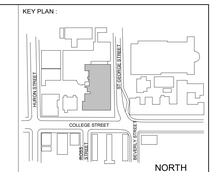
1 / E037 DOOR DETAIL 4

GENERAL NOTES:

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

2 / E037 DOOR DETAIL 5

KEY PLAN :



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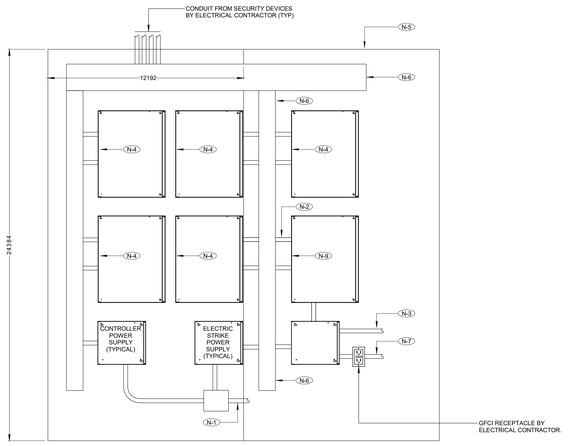


GENERAL NOTES:

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")W X 2438mm (96")H 19mm (3/4")D FIRE RETARDANT PLYWOOD BACKBOARD. PROVIDE APPROPRIATE NUMBER OF PLYWOOD BACKBOARD TO MOUNT ALL ENCLOSURES AND POWER SUPPLIES. ENCLOSURES AND POWER SUPPLIES.

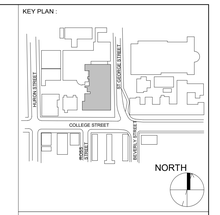
(N-5) PROVIDE APPROPRIATELY SIZED METAL TROUGH WITH LOCKABLE HINGED COVER AS REQUIRED TO HOUSE AND PROTECT ALL WIRING FROM CONDUITS TO ENCLOSURES (TYP).

(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 / E038 ACCESS CONTROL ENCLOSURE MOUNTING DETAILS

KEY PLAN :



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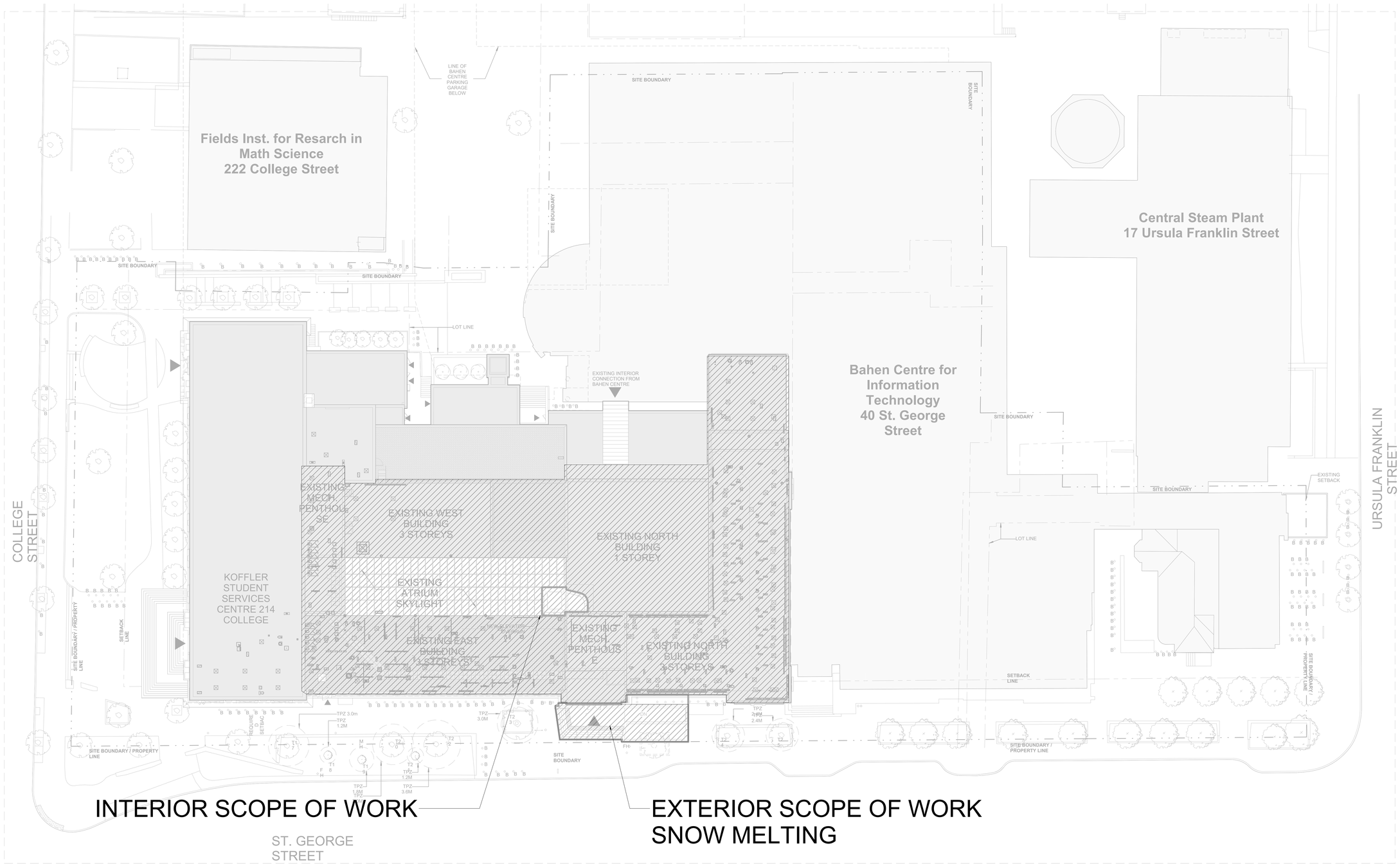

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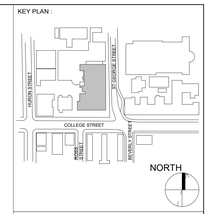

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SHEET CONTENTS
SITE PLAN - ELECTRICAL

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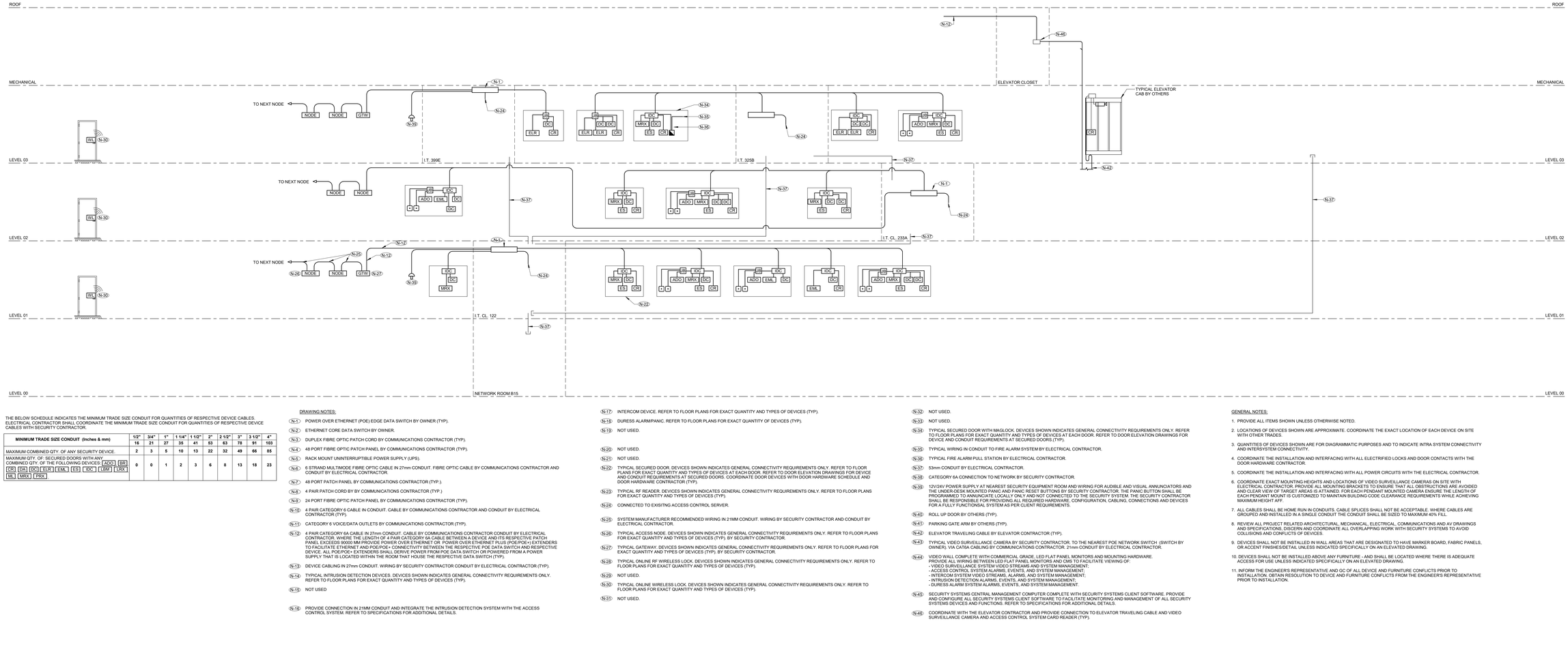


THE BELOW SCHEDULE INDICATES THE MINIMUM TRADE SIZE CONDUIT FOR QUANTITIES OF RESPECTIVE DEVICE CABLES. ELECTRICAL CONTRACTOR SHALL COORDINATE THE MINIMUM TRADE SIZE CONDUIT FOR QUANTITIES OF RESPECTIVE DEVICE CABLES WITH SECURITY CONTRACTOR.

MINIMUM TRADE SIZE CONDUIT (inches & mm)	1/2" 16	3/4" 21	1" 27	1 1/4" 35	1 1/2" 41	2" 53	2 1/2" 63	3" 78	3 1/2" 91	4" 103
MAXIMUM COMBINED QTY. OF ANY SECURITY DEVICE.	2	3	5	10	13	22	32	49	66	85
MAXIMUM QTY. OF SECURED DOORS WITH ANY COMBINED QTY. OF THE FOLLOWING DEVICES: ADO, EML, DR, DA, DO, ELR, EML, ES, IDC, LMT, MRX, ML, MRX, PRX	0	0	1	2	3	6	8	13	18	23

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 CORD BY COMMUNICATIONS CONTRACTOR (TYP).

N-4: 48 PORT FIBRE OPTIC PATCH PANEL BY COMMUNICATIONS CONTRACTOR (TYP).

N-5: RACK MOUNT UNINTERRUPTIBLE POWER SUPPLY (UPS).

N-6: 6 STRAND MULTIMODE FIBRE OPTIC CABLE IN 27mm CONDUIT. FIBRE OPTIC CABLE BY COMMUNICATIONS CONTRACTOR AND CONDUIT BY ELECTRICAL CONTRACTOR.

N-7: 48 PORT PATCH PANEL BY COMMUNICATIONS CONTRACTOR (TYP.).

N-8: 4 PAIR PATCH CORD BY BY COMMUNICATIONS CONTRACTOR (TYP.).

N-9: 24 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 6A CABLE IN 27mm CONDUIT. CABLE BY COMMUNICATIONS CONTRACTOR CONDUIT BY ELECTRICAL CONTRACTOR. WHERE THE LENGTH OF 4 PAIR CATEGORY 6A CABLE BETWEEN A DEVICE AND ITS RESPECTIVE PATCH PANEL EXCEEDS 90000 MM PROVIDE POWER OVER ETHERNET OR POWER OVER ETHERNET PLUS (POE/POE+) EXTENDERS TO FACILITATE ETHERNET AND POE/POE+ CONNECTIVITY BETWEEN THE RESPECTIVE POE DATA SWITCH AND RESPECTIVE DEVICE. ALL POE/POE+ EXTENDERS SHALL DERIVE POWER FROM POE DATA SWITCH OR POWERED FROM A POWER SUPPLY THAT IS LOCATED WITHIN THE ROOM THAT HOUSE THE RESPECTIVE DATA SWITCH (TYP.).

N-13: DEVICE CABLING IN 27mm CONDUIT. WIRING BY SECURITY CONTRACTOR CONDUIT BY ELECTRICAL CONTRACTOR (TYP).

N-14: TYPICAL INTRUSION DETECTION DEVICES. DEVICES SHOWN INDICATES GENERAL CONNECTIVITY REQUIREMENTS ONLY. REFER TO FLOOR PLANS FOR EXACT QUANTITY AND TYPES OF DEVICES (TYP).

N-15: NOT USED

N-16: PROVIDE CONNECTION IN 21MM CONDUIT AND INTEGRATE THE INTRUSION DETECTION SYSTEM WITH THE ACCESS CONTROL SYSTEM. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.

N-17: INTERCOM DEVICE. REFER TO FLOOR PLANS FOR EXACT QUANTITY AND TYPES OF DEVICES (TYP).

N-18: DURESS ALARM/PANIC. REFER TO FLOOR PLANS FOR EXACT QUANTITY OF DEVICES (TYP).

N-19: NOT USED.

N-20: NOT USED.

N-21: NOT USED.

N-22: 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 DEVICE AND CONDUIT REQUIREMENTS AT SECURED DOORS. COORDINATE DOOR DEVICES WITH DOOR HARDWARE SCHEDULE AND DOOR HARDWARE CONTRACTOR (TYP).

N-23: TYPICAL RF READER. DEVICES SHOWN INDICATES GENERAL CONNECTIVITY REQUIREMENTS ONLY. REFER TO FLOOR PLANS FOR EXACT QUANTITY AND TYPES OF DEVICES (TYP).

N-24: CONNECTED TO EXISITNG ACCESS CONTROL SERVER.

N-25: SYSTEM MANUFACTURER RECOMMENDED WIRING IN 21MM CONDUIT. WIRING BY SECURITY CONTRACTOR AND CONDUIT BY ELECTRICAL CONTRACTOR.

N-26: 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.

N-27: TYPICAL GATEWAY. DEVICES SHOWN INDICATES GENERAL CONNECTIVITY REQUIREMENTS ONLY. REFER TO FLOOR PLANS FOR EXACT QUANTITY AND TYPES OF DEVICES (TYP). BY SECURITY CONTRACTOR.

N-28: TYPICAL ONLINE RF WIRELESS LOCK. DEVICES SHOWN INDICATES GENERAL CONNECTIVITY REQUIREMENTS ONLY. REFER TO FLOOR PLANS FOR EXACT QUANTITY AND TYPES OF DEVICES (TYP).

N-29: NOT USED.

N-30: TYPICAL ONLINE WIRELESS LOCK. DEVICES SHOWN INDICATES GENERAL CONNECTIVITY REQUIREMENTS ONLY. REFER TO FLOOR PLANS FOR EXACT QUANTITY AND TYPES OF DEVICES (TYP).

N-31: NOT USED.

N-32: NOT USED.

N-33: NOT USED.

N-34: TYPICAL SECURED DOOR WITH MAGLOCK. 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 DEVICE AND CONDUIT REQUIREMENTS AT SECURED DOORS.(TYP.).

N-35: TYPICAL WIRING IN CONDUIT TO FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR.

N-36: TYPICAL FIRE ALARM PULL STATION BY ELECTRICAL CONTRACTOR.

N-37: 53mm CONDUIT BY ELECTRICAL CONTRACTOR.

N-38: CATEGORY 6A CONNECTION TO NETWORK BY SECURITY CONTRACTOR.

N-39: 12V/24V POWER SUPPLY AT NEAREST SECURITY EQUIPMENT ROOM AND WIRING FOR AUDIBLE AND VISUAL ANNUNCIATORS AND THE UNDER-DESK MOUNTED PANIC AND PANIC RESET BUTTONS BY SECURITY CONTRACTOR. THE PANIC BUTTON SHALL BE PROGRAMMED TO ANNUNCIATE LOCALLY ONLY AND NOT CONNECTED TO THE SECURITY SYSTEM. THE SECURITY CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED HARDWARE, CONFIGURATION, CABLING, CONNECTIONS AND DEVICES FOR A FULLY FUNCTIONSAL SYSTEM AS PER CLIENT REQUIREMENTS.

N-40: ROLL UP DOOR BY OTHERS (TYP).

N-41: PARKING GATE ARM BY OTHERS (TYP).

N-42: ELEVATOR TRAVELING CABLE BY ELEVATOR CONTRACTOR (TYP).

N-43: TYPICAL VIDEO SURVEILLANCE CAMERA BY SECURITY CONTRACTOR. TO THE NEAREST POE NETWORK SWITCH (SWITCH BY OWNER). VIA CAT6A CABLING BY COMMUNICATIONS CONTRACTOR. 21mm CONDUIT BY ELECTRICAL CONTRACTOR.

N-44: VIDEO WALL COMPLETE WITH COMMERCIAL GRADE, LED FLAT PANEL MONITORS AND MOUNTING HARDWARE.
PROVIDE ALL WIRING BETWEEN LED FLAT PANEL MONITORS AND CMS TO FACILITATE VIEWING OF:
- VIDEO SURVEILLANCE SYSTEM VIDEO STREAMS AND SYSTEM MANAGEMENT;
- ACCESS CONTROL SYSTEM ALARMS, EVENTS, AND SYSTEM MANAGEMENT;
- INTERCOM SYSTEM VIDEO STREAMS, ALARMS, AND SYSTEM MANAGEMENT;
- INTRUSION DETECTION ALARMS, EVENTS, AND SYSTEM MANAGEMENT;
- DURESS ALARM SYSTEM ALARMS, EVENTS, AND SYSTEM MANAGEMENT.

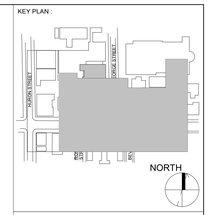
N-45: SECURITY SYSTEMS CENTRAL MANAGEMENT COMPUTER COMPLETE WITH SECURITY SYSTEMS CLIENT SOFTWARE. PROVIDE AND CONFIGURE ALL SECURITY SYSTEMS CLIENT SOFTWARE TO FACILITATE MONITORING AND MANAGEMENT OF ALL SECURITY SYSTEMS DEVICES AND FUNCTIONS. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.

N-46: COORDINATE WITH THE ELEVATOR CONTRACTOR AND PROVIDE CONNECTION TO ELEVATOR TRAVELING CABLE AND VIDEO SURVEILLANCE CAMERA AND ACCESS CONTROL SYSTEM CARD READER (TYP).

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 OTHER TRADES.
3. QUANTITIES OF DEVICES SHOWN ARE FOR DIAGRAMMATIC PURPOSES AND TO INDICATE INTRA SYSTEM CONNECTIVITY 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 CLEAR VIEW OF TARGET AREAS IS ATTAINED. FOR EACH PENDANT MOUNTED CAMERA ENSURE THE LENGTH OF EACH PENDANT MOUNT IS CUSTOMIZED TO MAINTAIN BUILDING CODE CLEARANCE REQUIREMENTS WHILE ACHIEVING MAXIMUM HEIGHT AFF.
7. 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.
8. REVIEW ALL PROJECT RELATED ARCHITECTURAL, MECHANICAL, ELECTRICAL, COMMUNICATIONS AND AV DRAWINGS AND SPECIFICATIONS, DISCERN AND COORDINATE 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, FABRIC PANELS, OR ACCENT FINISHES/DETAIL 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 INDICATED SPECIFICALLY ON AN ELEVATED DRAWING.
11. INFORM THE ENGINEER'S REPRESENTATIVE AND GC OF ALL DEVICE AND FURNITURE CONFLICTS PRIOR TO INSTALLATION. OBTAIN RESOLUTION TO DEVICE AND FURNITURE CONFLICTS FROM THE ENGINEER'S REPRESENTATIVE PRIOR TO INSTALLATION.

KEY PLAN :



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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 :
SECURITY RISER DIAGRAM

PROJECT NUMBER :
21590.003
DRAWING SCALE :
NTS.

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

SHEET NO :
E202
REV :
12

DRAWING NOTES:

N-1 DISCONNECT POWER FROM OLD SUMP PUMP AND RECONNECT TO NEW. CONFIRM EXACT LOCATION ON SITE. COORDINATE THIS SCOPE OF WORK WITH MECHANICAL.

GENERAL NOTES:

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH INTERIOR DESIGNER'S/ARCHITECTS DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILING, FINISHES AND COLOURS.
2. CIRCUITING IN PART IS DIAGRAMMATIC INTENDED TO SHOW GENERAL CIRCUIT ARRANGEMENT AND PANEL DESIGNATION.
3. PROVIDE EMT CONDUIT IN AREAS WITH EXPOSED CEILINGS. BX CABLING IS NOT ACCEPTABLE UNLESS OTHERWISE NOTED. BX CABLES MAY BE USED FOR FINAL CONNECTIONS TO LIGHTING FIXTURES OR EQUIPMENT WITH A MAXIMUM HORIZONTAL RUN LENGTH OF 3 FEET / 1 METER. PAINT CONDUITS TO MATCH ARCHITECTURAL BACKGROUNDS. MOUNT EXIT SIGNS, OCCUPANCY SENSORS, EXIT SIGNS, CAMERAS, WAPS AND ALL OTHER CEILING MOUNTED DEVICES WITH STEMS SUCH THAT THEY ARE ON THE SAME PLANE AS SUSPENDED LIGHTING FIXTURES. COORDINATE CEILINGS AND WALL HEIGHTS WITH INTERIOR DESIGNER DRAWINGS.
4. VERIFY EXACT POWER REQUIREMENTS AND RECEPTACLE TYPES FOR SPECIAL EQUIPMENT WITH MANUFACTURER PRIOR TO INSTALLATION. PROVIDE HARDWIRE CONNECTIONS FOR DISHWASHERS AND COPIERS ETC. IN LIEU OF RECEPTACLES OR VICE VERSA, AS REQUIRED.
5. REFER TO INTERIOR DESIGN/ARCHITECT DRAWINGS FOR THE COLOUR OF COVERPLATES AND MOUNTING HEIGHTS.
6. MARK UP OUTLET AND DEVICE LOCATIONS AND OBTAIN APPROVAL BY DESIGN CONSULTANT PRIOR TO INSTALLATION.
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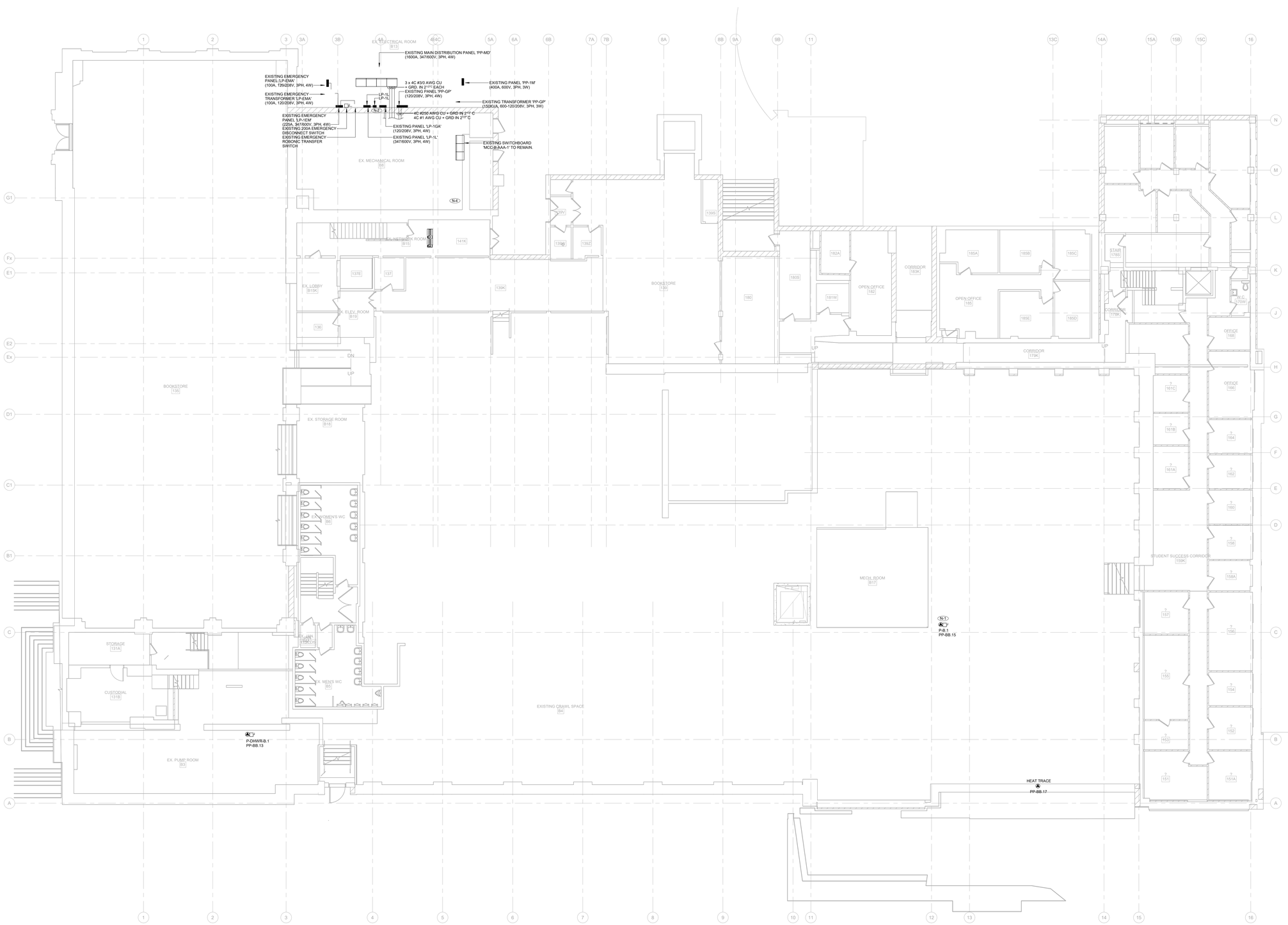
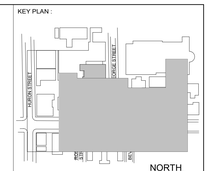


KEY PLAN :



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TORONTO, ON M5T 3A1

SHEET CONTENTS :
LEVEL 00 - POWER PLAN

PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 100

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

SHEET NO :
E300

REV :
12

DRAWING NOTES:

(N-1) OUTLETS TO BE SURFACE MOUNTED.

(N-2) PROVIDE SHUNT TRIP BREAKER FOR APPLIANCES/OUTLET UNDER HOOD. UPON ACTIVATION OF FIRE SUPPRESSION SYSTEM, SIGNAL SHALL BE SEND TO SHUNT TRIP BREAKERS TO TURN OFF.

(N-3) REFER TO 3/TE-620 FOR DETAIL OF TYPICAL BARRIER FREE/UNIVERSAL WASHROOM

(N-4) INDOOR UNIT IS POWER VIA THE CONDENSER ON ROOF. ALLOW FOR HARDWARE CONNECTIONS AND DISCONNECTS AT ALL UNITS. PIPE AND WIRE TO FOLLOW MECHANICAL ROUTING. ALLOW FOR ALL ASSOCIATED COSTS. COORDINATE WITH SHOP DRAWINSG AND THE MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.

(N-5) PROVIDE SUITABLE SIZED PULL BOX FOR REQUIRED CONDUITS. REFER TO AV DRAWINGS S/AV 301 FOR ADDITIONAL INFORMATION.

(N-6) SINGLE GANG JUNCTION BOX FOR CAMERA. CONFIRM EXACT LOCATION ON SITE WITH AV VENDOR PRIOR TO ROUGH-IN.

(N-7) PROVIDE TWO ADDITONAL FIRE ALARM ZONES - TROUBLE AND ALARM SIGNALS FOR FIRE SUPPRESSION SYSTEM. UPDATE EXISTING FIRE ALARM PANEL AND FIRE ALARM ANNUNICATOR PANEL AS REQUIRED. COORDINATE WITH BASE BUILDING FIRE ALARM CONTRACTOR FOR TIE-INS TO EXISTING FIRE ALARM SYSTEM. REFER TO ECOLOGGER DOCUMENTATION FOR ADDITIONAL INFORMATION.

(N-8) PROVIDE 1/2"C IN SLAB/CEILING SPACE BELOW FOR AUTODOOR PUSHBUTTON. CONFIRM ROUTING ON SITE. COORDINATE THIS SCOPE OF WORK WITH GC PRIOR TO WORK COMMENCING.

(N-9) PROVIDE 6 METERS/20 FEET OF SLACK FOR PANEL 143-NRP-01-02-BD COILED UP IN SUITABLY SIZED JUNCTION BOX MOUNTED ADJACENT TO PANEL TO ALLOW FUTURE TENANT TO RELOCATE PANEL AS REQUIRED. CONFIRM LOCATION ON SITE.

GENERAL NOTES:

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3. PROVIDE EMT CONDUIT IN AREAS WITH EXPOSED CEILINGS. BX CABLING IS NOT ACCEPTABLE UNLESS OTHERWISE NOTED. BX CABLES MAY BE USED FOR FINAL CONNECTIONS TO LIGHTING FIXTURES OR EQUIPMENT WITH A MAXIMUM HORIZONTAL RUN LENGTH OF 3 FEET / 1 METER. PAINT CONDUITS TO MATCH ARCHITECTURAL BACKGROUNDS. MOUNT EXIT SIGNS, OCCUPANCY SENSORS, EXIT SIGNS, CAMERAS, WAPS AND ALL OTHER CEILING MOUNTED DEVICES WITH STEMS SUCH THAT THEY ARE ON THE SAME PLANE AS SUSPENDED LIGHTING FIXTURES. COORDINATE CEILINGS AND WALL HEIGHTS WITH INTERIOR DESIGNER DRAWINGS.
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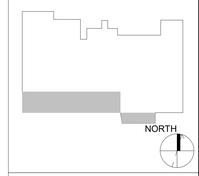
11. UNLESS OTHERWISE NOTED, POWER TO BE FED FROM PANELS LOCATED ON THIS FLOOR.
12. ALLOW FOR THE REWORKING OF EXISTING CONDUIT/FEEDERS TO ACCOMMODATE NEW SCOPE OF WORK AND/OR INTERFERENCES.

KEY PLAN :



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8	2025-03-14	BID ADDENDUM #02
9	2025-03-21	BID ADDENDUM #03
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PROJECT :
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214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :
LEVEL 01 - POWER PLAN

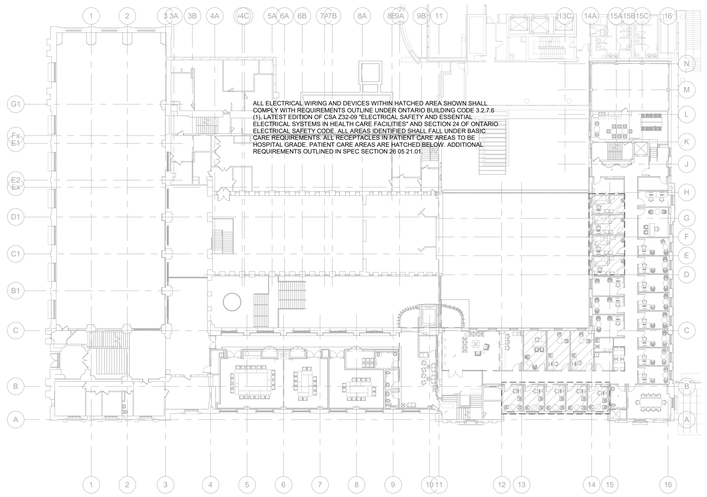
PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 100

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

SHEET NO :
E301

REV :
12



DRAWING NOTES:

- (N-1) FEEDER CONDUITS FOR POWER, DATA, A/V, OR SECURITY AT THIS LOCATION TO BE RUN FROM GROUND FLOOR CEILING BELOW.
- (N-2) EXPOSED CONDUITS SHALL NOT BE PERMITTED ON/ABOVE CEILING IN THIS CORRIDOR.
- (N-3) REFER TO DETAIL 3/E020 FOR DETAIL OF TYPICAL BARRIER FREE/UNIVERSAL WASHROOM.
- (N-4) INDOOR UNIT IS POWER VIA THE CONDENSER ON ROOF. ALLOW FOR HARDWARE CONNECTIONS AND DISCONNECTS AT ALL UNITS. PIPE AND WIRE TO FOLLOW MECHANICAL ROUTING. ALLOW FOR ALL ASSOCIATED COSTS. COORDINATE WITH SHOP DRAWINGS AND THE MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
- (N-5) OUTLETS FOR PROJECTOR IN WALL RECESS. COORDINATE LOCATION ON SITE.

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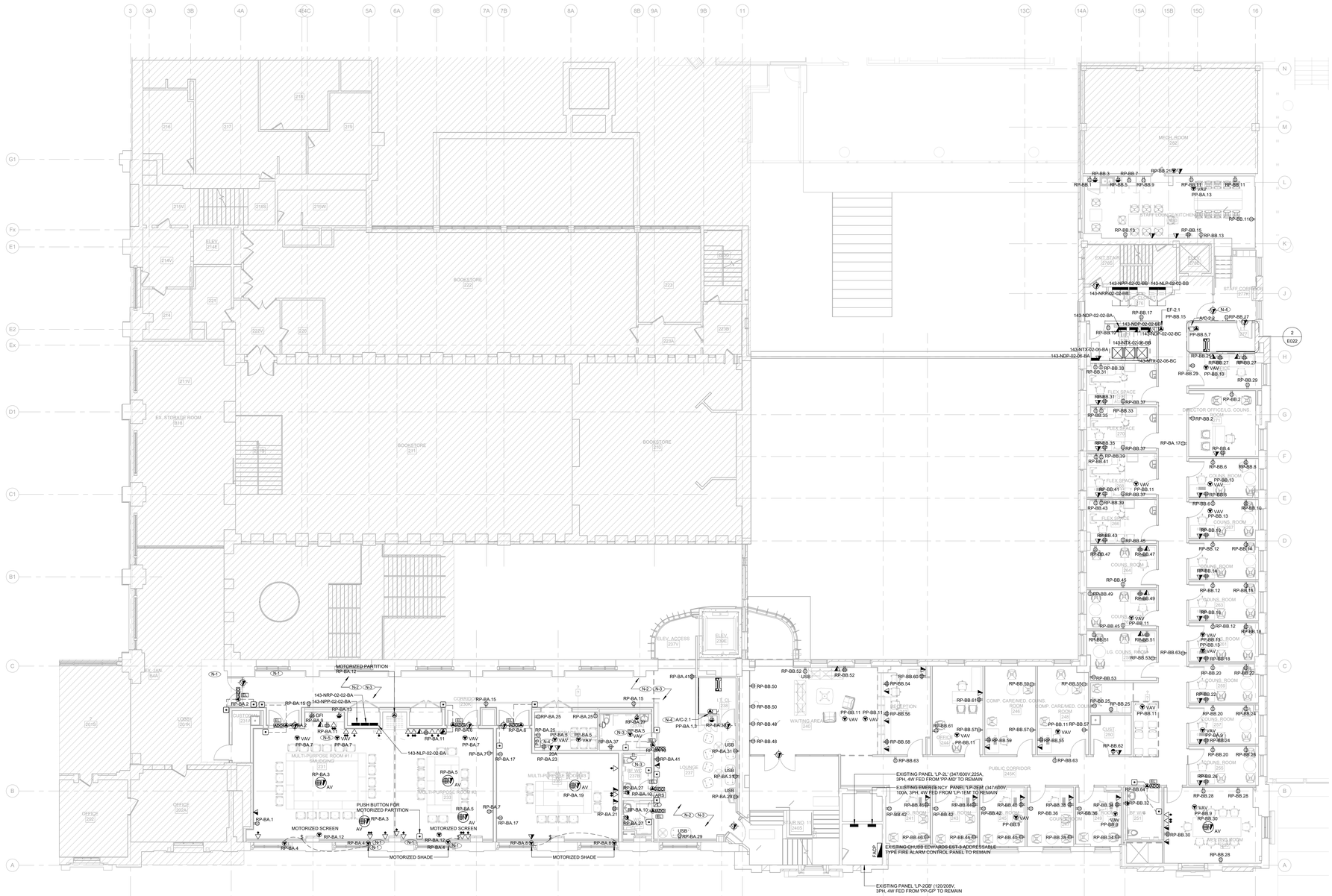
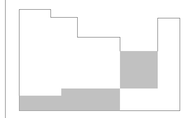


KEY PLAN :



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9	2025-03-21	BID ADDENDUM #03
10	2025-03-25	BID ADDENDUM #04
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SHEET CONTENTS :

LEVEL 02 - POWER PLAN

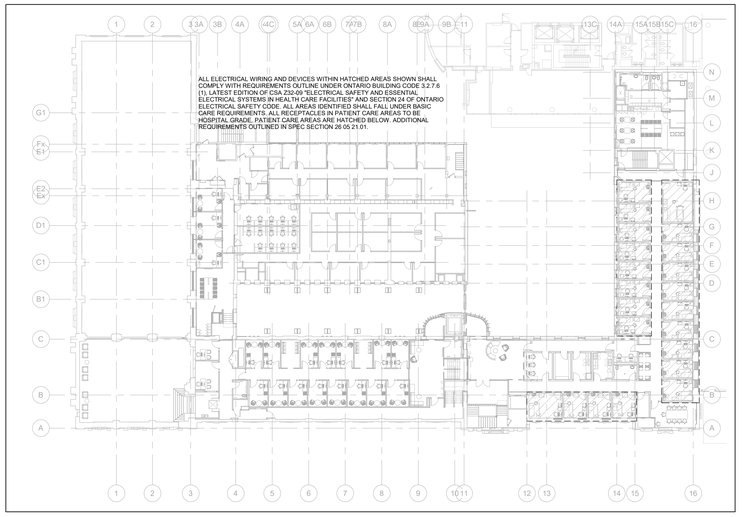
PROJECT NUMBER :
21590.003

DRAWING SCALE :
As indicated

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

SHEET NO : **E302**

REV : **12**



DRAWING NOTES:

- (N-1) PROVIDE BRONZE COVER PLATE FOR OUTLETS/SWITCHES IN THIS AREA IN CONJUNCTION WITH ARCHITECTURAL WOOD PANEL SYSTEM. COORDINATE EXACT COLOUR WITH ARCHITECTURAL.
- (N-2) DISCONNECT SWITCH WITH AUX CONTACT.
- (N-3) PROVIDE POWER TO MEDICAL FRIDGE FROM SPLITTER PP-EM IN ROOM #360A. COORDINATE LOCATION ON SITE WITH CLIENT/GC PRIOR TO ROUGH-IN. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- (N-4) COORDINATE EXACT LOCATION OF DISCONNECT SWITCHES FOR ELEVATOR WITH ELEVATOR VENDOR PRIOR TO ROUGH-IN. CONFIRM REQUIRED DISCONNECT SWITCH TYPES PRIOR TO PURCHASING. CONTACT ERIC LAM <ERIC.LAM@KJA.COM/416-209-3493>.
- (N-5) INDOOR UNIT IS POWER VIA THE CONDENSER ON ROOF. ALLOW FOR HARDWARE CONNECTIONS AND DISCONNECTS AT ALL UNITS. PIPE AND WIRE TO FOLLOW MECHANICAL ROUTING. ALLOW FOR ALL ASSOCIATED COSTS. COORDINATE WITH SHOP DRAWINSG AND THE MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
- (N-6) PROVIDE 120V/1P, 30A UNFUSED DISCONNECT SWITCH.
- (N-7) EXHAUST FAN CONTROLLED BY REVERSE ACTING THERMOSTAT. THERMOSTAT SUPPLIED BY MECHANICAL INSTALLED BY ELECTRICAL.
- (N-8) HATCHED AREA INDICATES FUTURE AREA.

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KEY PLAN :

NORTH

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SHEET CONTENTS :

LEVEL 03 - POWER PLAN

PROJECT NUMBER :
21590.003

DRAWING SCALE :
As indicated

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

SHEET NO
E303

REV
12

DRAWING NOTES:

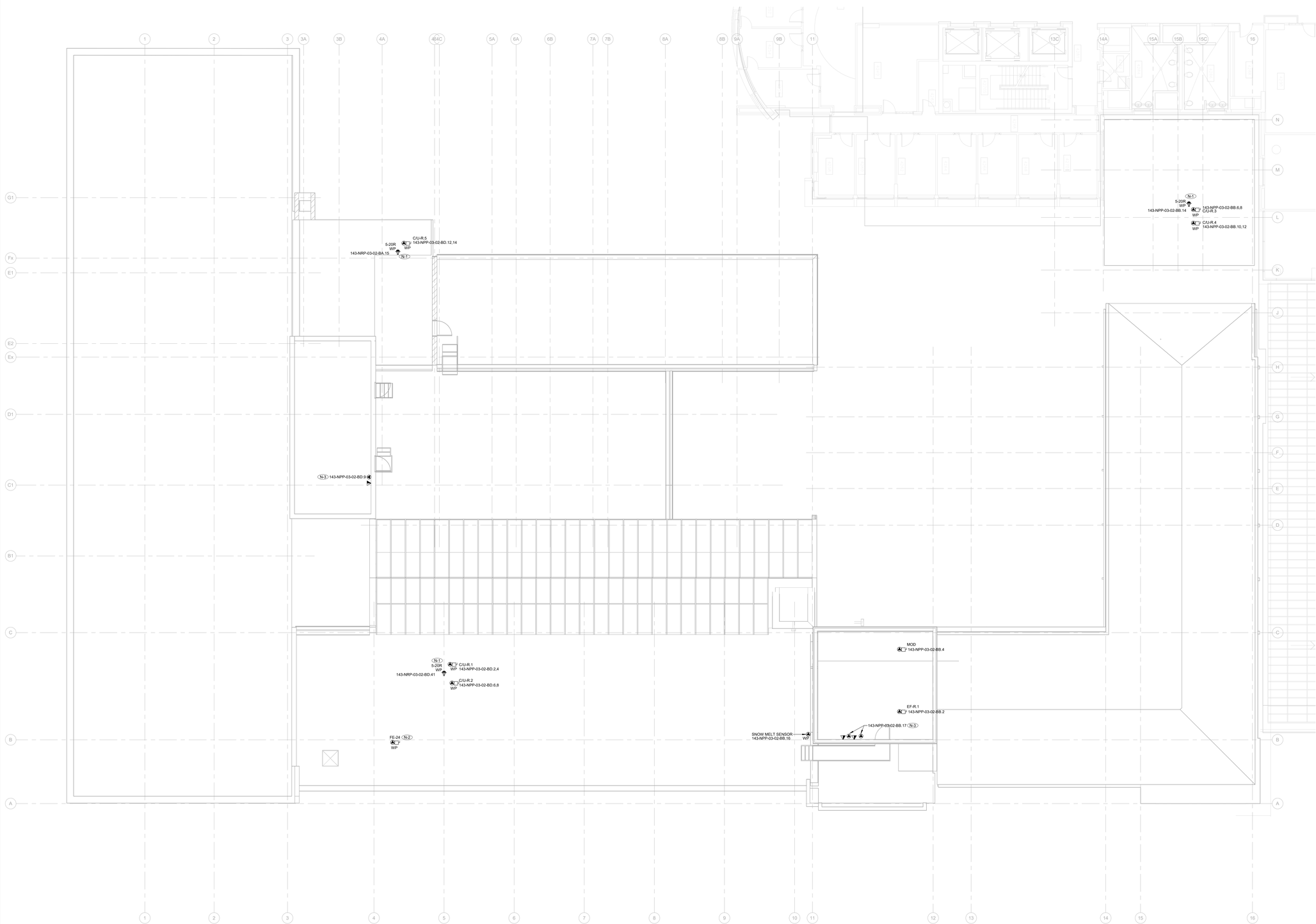
(N-1) ROOFTOP MAINTENANCE RECEPTACLE. COORDINATE EXACT LOCATION ON SITE.

(N-2) DISCONNECT POWER TO EXISTING ROOF EXHAUST FAN AND CONNECT TO NEW EXHAUST FAN. COORDINATE THIS SCOPE OF WORK WITH MECHANICAL.

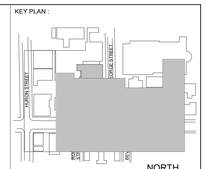
(N-3) POWER/DATA OUTLET FOR BAS EQUIPMENT. COORDINATE LOCATION ON SITE WITH MECHANICAL PRIOR TO ROUGH-IN.

GENERAL NOTES:

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH INTERIOR DESIGNER'S/ARCHITECTS DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILING, FINISHES AND COLOURS.
2. CIRCUITING IN PART IS DIAGRAMMATIC INTENDED TO SHOW GENERAL CIRCUIT ARRANGEMENT AND PANEL DESIGNATION.
3. PROVIDE EMT CONDUIT IN AREAS WITH EXPOSED CEILINGS. BX CABLING IS NOT ACCEPTABLE UNLESS OTHERWISE NOTED. BX CABLES MAY BE USED FOR FINAL CONNECTIONS TO LIGHTING FIXTURES OR EQUIPMENT WITH A MAXIMUM HORIZONTAL RUN LENGTH OF 1.8 METERS. PAINT CONDUITS TO MATCH ARCHITECTURAL BACKGROUNDS. MOUNT EXIT SIGNS, OCCUPANCY SENSORS, EXIT SIGNS, CAMERAS, WAPS AND ALL OTHER CEILING MOUNTED DEVICES WITH STEMS SUCH THAT THEY ARE ON THE SAME PLANE AS SUSPENDED LIGHTING FIXTURES. COORDINATE CEILINGS AND WALL HEIGHTS WITH INTERIOR DESIGNER DRAWINGS.
4. VERIFY EXACT POWER REQUIREMENTS AND RECEPTACLE TYPES FOR SPECIAL EQUIPMENT WITH MANUFACTURER PRIOR TO INSTALLATION. PROVIDE HARDWIRE CONNECTIONS FOR DISHWASHERS AND COPIERS ETC. IN LIEU OF RECEPTACLES OR VICE VERSA, AS REQUIRED.
5. REFER TO INTERIOR DESIGN/ARCHITECT DRAWINGS FOR THE COLOUR OF COVERPLATES AND MOUNTING HEIGHTS.
6. MARK UP OUTLET AND DEVICE LOCATIONS AND OBTAIN APPROVAL BY DESIGN CONSULTANT PRIOR TO INSTALLATION.
7. PROVIDE SUITABLE LABELS ON ALL RECEPTACLES AND SYSTEM FURNITURE FEEDS. LABELS TO INCLUDE BOTH PANEL AND CIRCUIT DESIGNATION. REVIEW LABEL SIZE AND TYPE WITH CONSULTANT PRIOR TO INSTALLATION.
8. CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL MECHANICAL/COMMUNICATION/AV EQUIPMENT WITH MECHANICAL/COMMUNICATION/AV DRAWINGS AND CONTRACTOR PRIOR TO ROUGH-INS. NO ADDITIONAL COSTS WILL BE APPROVED FOR ANY REVISIONS/MODIFICATIONS REQUIRED BY ANY TRADE OR CONTRACTOR DUE TO THE LACK OF COORDINATION BETWEEN TRADES AND CONTRACTORS.
9. 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.
10. COORDINATE ALL WORK TO SUIT PROJECT PHASE SCHEDULE. COORDINATE PHASING WITH ARCHITECT/INTERIOR DESIGN/GC DRAWINGS. PHASING IF SHOWN IS FOR REFERENCE PURPOSES ONLY.



KEY PLAN :



REVISION

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
10	2025-03-25	BID ADDENDUM #04
12	2025-04-30	ISSUED FOR CONSTRUCTION

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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 :
ROOF - POWER PLAN

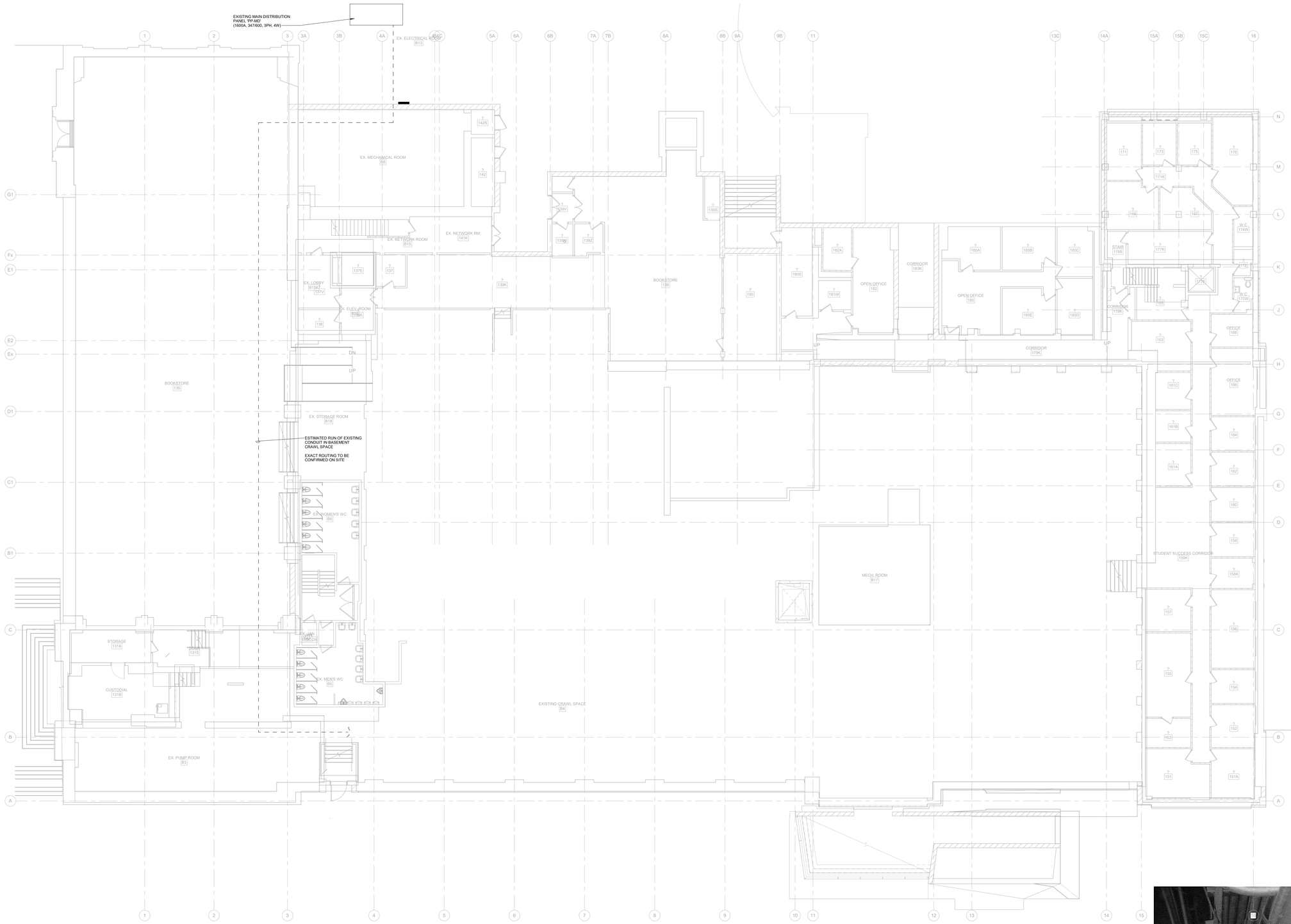
PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 100

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

SHEET NO :
E305

REV :
12



REFERENCE PICTURE OF EXISTING CRAWLSPACE

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2. SHOWN IS PROPOSED ROUTING ONLY. EXACT ROUTING TO BE CONFIRMED ON SITE.
3. MAIN CONDUITS SHALL BE RUN ALONG CORRIDOR WHERE POSSIBLE.
4. PROVIDE EMT CONDUIT IN AREAS WITH EXPOSED CEILINGS. BX CABLING IS NOT ACCEPTABLE UNLESS OTHERWISE NOTED. BX CABLES MAY BE USED FOR FINAL CONNECTIONS TO LIGHTING FIXTURES OR EQUIPMENT WITH A MAXIMUM HORIZONTAL RUN LENGTH OF 3 FEET / 1 METER. PAINT CONDUITS TO MATCH ARCHITECTURAL BACKGROUNDS. MOUNT EXIT SIGNS, OCCUPANCY SENSORS, EXIT SIGNS, CAMERAS, WAPS AND ALL OTHER CEILING MOUNTED DEVICES WITH STEMS SUCH THAT THEY ARE ON THE SAME PLANE AS SUSPENDED LIGHTING FIXTURES. COORDINATE CEILINGS AND WALL HEIGHTS WITH INTERIOR DESIGNER DRAWINGS.
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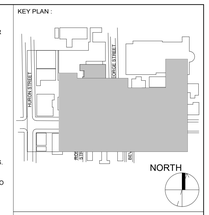
KEY PLAN :



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214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :
LEVEL 00 - PATHWAY LAYOUT

PROJECT NUMBER :
21590.003
DRAWING SCALE :
1 : 100

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

SHEET NO
E306
REV.
12

GENERAL NOTES:

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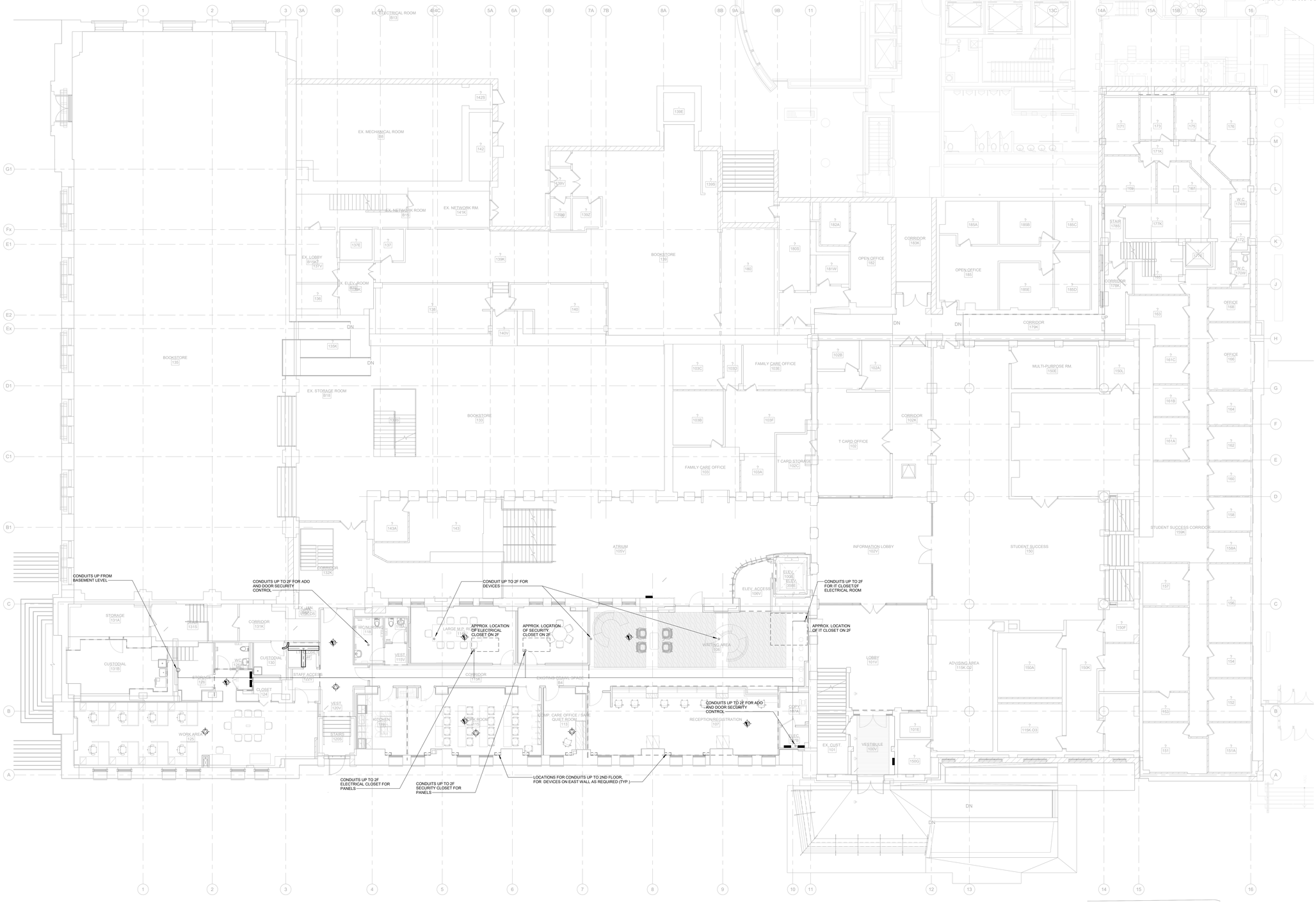

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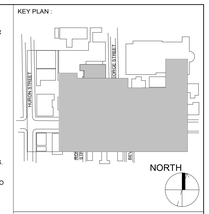

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PROJECT :

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS

LEVEL 01 - PATHWAY LAYOUT

PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 100

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

SHEET NO :
E307

REV :
12

GENERAL NOTES:

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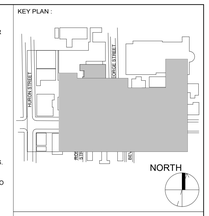

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PROJECT :

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :

LEVEL 02 - PATHWAY LAYOUT

PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 100

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

SHEET NO:
E308

REV :
12

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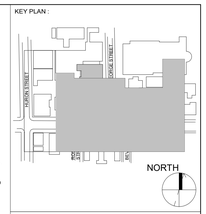

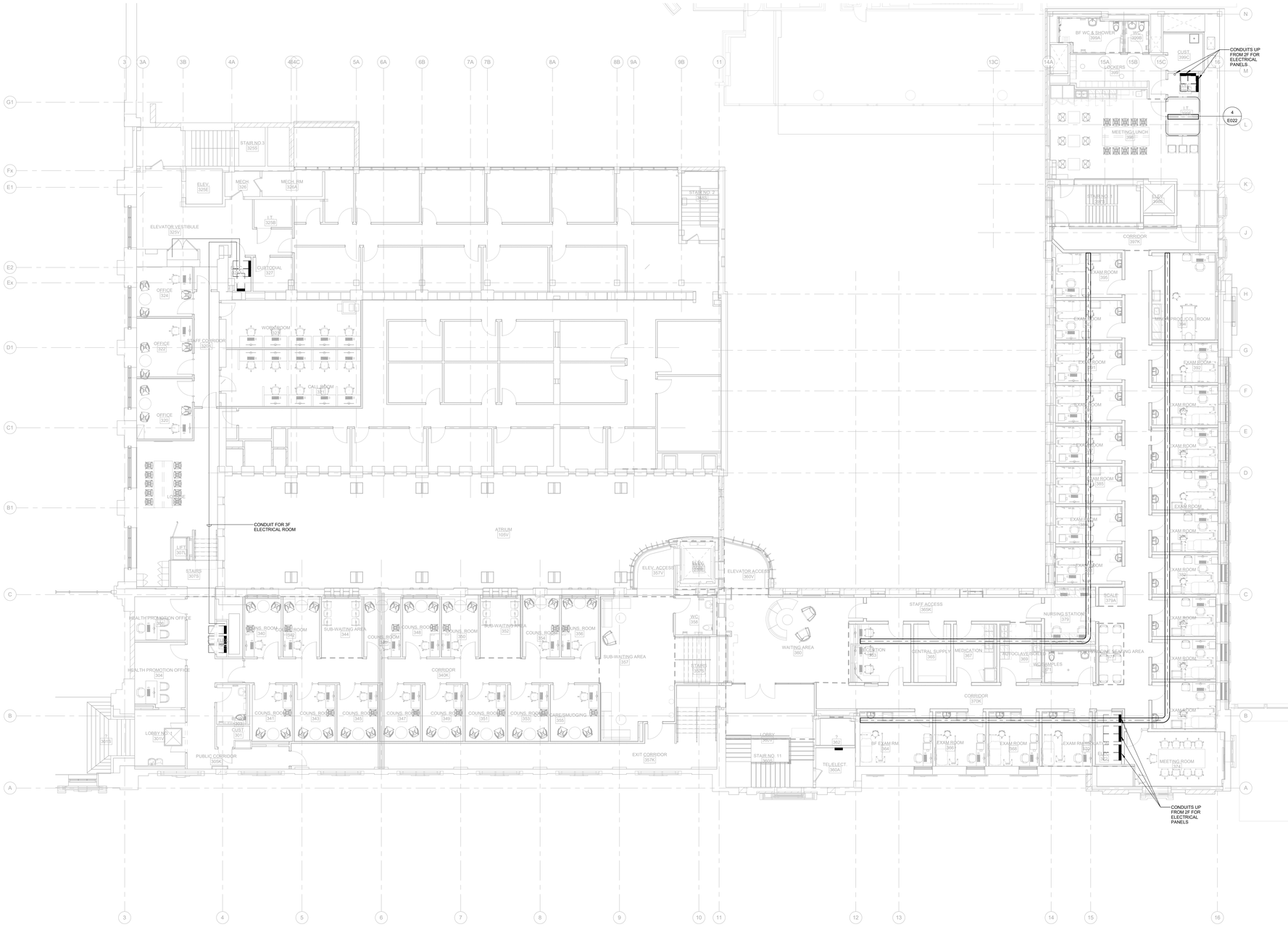

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214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :
LEVEL 03 - PATHWAY LAYOUT

PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 100

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

SHEET NO :
E309

REV :
12

DRAWING NOTES:

(N-T)

GENERAL NOTES:

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4. ALL NEW/RELOCATED/REINSTALLED BASE BUILDING STANDARD LUMINAIRES AND NEW RECESSED DOWN LIGHTS SHALL BE CHAIN HUNG AND SUPPORTED FROM THE SLAB ABOVE. PROVIDE LETTER TO BE INCLUDED AS PART OF CLOSE-OUT DOCUMENT SUBMITTAL PACKAGE.
5. RELAMP EXISTING AND RELOCATED LUMINAIRES DUE TO BURNOUT CONDITIONS AND REPLACE FAULTY BALLASTS AS REQUIRED. INCLUDE IN BASE PRICE.
6. MEASURE THE ILLUMINATION OF THE FLOOR AT NIGHT WITH EMERGENCY LIGHTING ON ONLY, AND SEND A DRAWING SHOWING THE MAXIMUM AND MINIMUM LEVEL OF ILLUMINATION, TO THE CONSULTING ENGINEER, FOR REVIEW. PROVIDE WRITTEN CONFIRMATION THAT EMERGENCY LIGHTING HAS BEEN INSTALLED IN ACCORDANCE WITH CONTRACT DOCUMENTS AND LATEST EDITION OF THE ONTARIO BUILDING CODE SECTIONS 3.2.7.3 AND 3.2.7.4. LETTER TO BE INCLUDED AS PART OF CLOSE-OUT DOCUMENT SUBMITTAL PACKAGE.
7. PROVIDE NEW PICTOGRAM (RUNNING MAN) TYPE EXIT SIGNS, FACES AND INDICATOR ARROWS AS PER DRAWINGS AND UNIVERSAL 120-347VAC. CONNECT NEW EXIT SIGNS TO THE EXIT LIGHTING CIRCUIT SERVING THIS AREA. DO NOT OVERLOAD THE CIRCUIT. ALLOW FOR FIVE (5) ADDITIONAL EXIT SIGNS PER FLOOR (COMPLETE WITH MATERIAL AND LABOUR) TO BE INSTALLED AS PER BUILDING INSPECTORS REQUIREMENTS UPON FINAL INSPECTION.
8. LOCATE AND POSITION EXIT SIGNS SUCH THAT THEY DO NOT INTERFERE WITH ADJACENT EXIT SIGNS AND EMERGENCY LIGHTING COVERAGE.
9. ENSURE THAT ALL LIGHTING FIXTURES ARE CLEAN AND ILLUMINATED BY END OF PROJECT.
10. LIGHTING FIXTURES IDENTIFIED AS EMERGENCY ARE TO BE CONNECTED SO THAT UNDER NORMAL CONDITIONS THEY WORK IN CONJUNCTION WITH THE SWITCHING AS IDENTIFIED. IN THE EVENT OF AN EMERGENCY, THESE LIGHTS ARE TO BE FORCED ON WITH THE USE OF A UL-924 LISTED RELAY. UPON POWER FAILURE THE RELAY IS TO ACTIVATE THE LIGHTS TO FULL BRIGHTNESS.
11. REMOVE ALL PAGING/AUDIO SPEAKERS IN RENOVATED AREA NOT SHOWN ON PLANS. ALL "EXISTING TO REMAIN" SPEAKERS TO BE FIRE ALARM EVAC SPEAKERS ONLY.
12. ALL CEILING MOUNTED OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE LOCATED AT LEAST 610" AWAY FROM ANY SUPPLY AIR DIFFUSER AND RETURN AIR GRILLE AS PER MANUFACTURER'S RECOMMENDATION. COORDINATE INSTALLATION ON SITE WITH MECHANICAL CONTRACTOR PRIOR TO COMMENCING WORK.
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14. ALLOW FOR THE REWORKING OF EXISTING CONDUIT/FEEDERS TO ACCOMMODATE NEW SCOPE OF WORK AND/OR INTERFERENCES.

ELECTRONIC TIMER C/W
IN SW PL IN 20-35-60-120
EXTERIOR LIGHTS:
INTERMATIC ET1705C OR EQUAL

APPROXIMATE LOCATION OF OUTDOOR PHOTO SENSOR (ON ROOF)

KEY PLAN :

NORTH

REVISION

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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 01 - LIGHTING PLAN

PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 100

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

SHEET NO :
E401

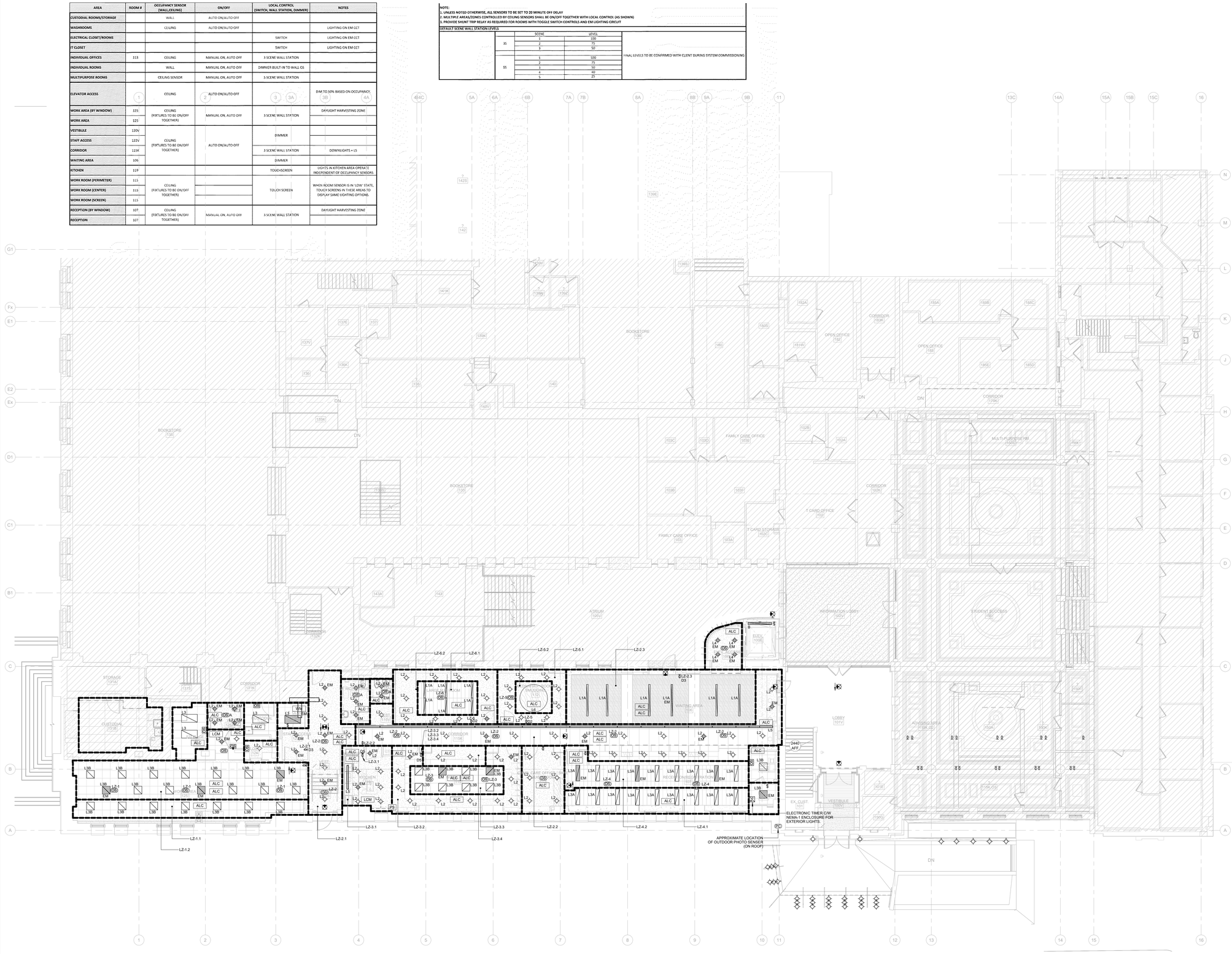
REV :
12

AREA	ROOM #	OCCUPANCY SENSOR (WALL/CEILING)	ON/OFF	LOCAL CONTROL (SWITCH, WALL STATION, DIMMER)	NOTES
CUSTODIAL ROOMS/STORAGE		WALL	AUTO ON/AUTO OFF		
WASHROOMS		CEILING	AUTO ON/AUTO OFF		LIGHTING ON EM CCT
ELECTRICAL CLOSET/ROOMS				SWITCH	LIGHTING ON EM CCT
IT CLOSET				SWITCH	LIGHTING ON EM CCT
INDIVIDUAL OFFICES	113	CEILING	MANUAL ON, AUTO OFF	3 SCENE WALL STATION	
INDIVIDUAL ROOMS		WALL	MANUAL ON, AUTO OFF	DIMMER BUILT-IN TO WALL OS	
MULTIPURPOSE ROOMS		CEILING SENSOR	MANUAL ON, AUTO OFF	5 SCENE WALL STATION	
ELEVATOR ACCESS	1	CEILING	2 AUTO ON/AUTO OFF	3 3A	3B 4A DIM TO 50% BASED ON OCCUPANCY
WORK AREA (BY WINDOW)	125	CEILING (FIXTURES TO BE ON/OFF TOGETHER)	MANUAL ON, AUTO OFF	3 SCENE WALL STATION	DAYLIGHT HARVESTING ZONE
WORK AREA	125				
VESTIBULE	120V	CEILING (FIXTURES TO BE ON/OFF TOGETHER)	AUTO ON/AUTO OFF	DIMMER	
STAFF ACCESS	122V				
CORRIDOR	115K			3 SCENE WALL STATION	DOWNLIGHTS + LS
WAITING AREA	106			DIMMER	
KITCHEN	119			TOUCHSCREEN	LIGHTS IN KITCHEN AREA OPERATE INDEPENDENT OF OCCUPANCY SENSORS
WORK ROOM (PERIMETER)	113	CEILING (FIXTURES TO BE ON/OFF TOGETHER)		TOUCH SCREEN	WHEN ROOM SENSOR IS IN 'LOW' STATE, TOUCH SCREENS IN THESE AREAS TO DISPLAY SAME LIGHTING OPTIONS.
WORK ROOM (CENTER)	113				
WORK ROOM (SCREEN)	113				
RECEPTION (BY WINDOW)	107	CEILING (FIXTURES TO BE ON/OFF TOGETHER)	MANUAL ON, AUTO OFF	3 SCENE WALL STATION	DAYLIGHT HARVESTING ZONE
RECEPTION	107				

NOTE:
1. UNLESS NOTED OTHERWISE, ALL SENSORS TO BE SET TO 20 MINUTE OFF DELAY
2. MULTIPLE AREAS/ZONES CONTROLED BY CEILING SENSORS SHALL BE ON/OFF TOGETHER WITH LOCAL CONTROL (AS SHOWN)
3. PROVIDE SHUNT TRIP RELAY AS REQUIRED FOR ROOMS WITH TOGGLE SWITCH CONTROLS AND EM LIGHTING CIRCUIT

DEFAULT SCENE WALL STATION LEVELS:

	SCENE	LEVEL	
3S	1	100	FINAL LEVELS TO BE CONFIRMED WITH CLIENT DURING SYSTEM COMMISSIONING
	2	75	
	3	50	
5S	1	100	
	2	75	
	3	50	
	4	60	
	5	25	



DRAWING NOTES:

(N-1) LIGHTING/CEILING DEVICES IN THIS AREA TO BE REMOVED AND REINSTALLED AS REQUIRED TO ACCOMMODATE MECHANICAL WORK IN THIS AREA. COORDINATE THIS SCOPE OF WORK WITH MECHANICAL.

GENERAL NOTES:

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH INTERIOR DESIGNER'S/ARCHITECTS DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILING, FINISHES AND COLOURS.
2. CIRCUITING IN PART IS DIAGRAMMATIC INTENDED TO SHOW GENERAL CIRCUIT ARRANGEMENT AND PANEL DESIGNATION.
3. PROVIDE EXIT CONDUIT IN AREAS WITH EXPOSED CEILINGS. BX CABLING IS NOT ACCEPTABLE UNLESS OTHERWISE NOTED. BX CABLES MAY BE USED FOR FINAL CONNECTIONS TO LIGHTING FIXTURES OR EQUIPMENT WITH A MAXIMUM HORIZONTAL RUN LENGTH OF 3 FEET / 1 METER. PAINT CONDUITS TO MATCH ARCHITECTURAL BACKGROUNDS. MOUNT EXIT SIGNS, OCCUPANCY SENSORS, EXIT SIGNS, CAMERAS, WAPS AND ALL OTHER CEILING MOUNTED DEVICES WITH STEMS SUCH THAT THEY ARE ON THE SAME PLANE AS SUSPENDED LIGHTING FIXTURES. COORDINATE CEILINGS AND WALL HEIGHTS WITH INTERIOR DESIGNER DRAWINGS.
4. ALL NEW/RELOCATED/REINSTALLED BASE BUILDING STANDARD LUMINAIRES AND NEW RECESSED DOWN LIGHTS SHALL BE CHAIN HUNG AND SUPPORTED FROM THE SLAB ABOVE. PROVIDE LETTER TO BE INCLUDED AS PART OF CLOSE-OUT DOCUMENT SUBMITTAL PACKAGE.
5. RELAMP EXISTING AND RELOCATED LUMINAIRES DUE TO BURNOUT CONDITIONS AND REPLACE FAULTY BALLASTS AS REQUIRED. INCLUDE IN BASE PRICE.
6. MEASURE THE ILLUMINATION OF THE FLOOR AT NIGHT WITH EMERGENCY LIGHTING ON ONLY, AND SEND A DRAWING SHOWING THE MAXIMUM AND MINIMUM LEVEL OF ILLUMINATION, TO THE CONSULTING ENGINEER, FOR REVIEW. PROVIDE WRITTEN CONFIRMATION THAT EMERGENCY LIGHTING HAS BEEN INSTALLED IN ACCORDANCE WITH CONTRACT DOCUMENTS AND LATEST EDITION OF THE ONTARIO BUILDING CODE SECTIONS 3.2.7.3 AND 3.2.7.4. LETTER TO BE INCLUDED AS PART OF CLOSE-OUT DOCUMENT SUBMITTAL PACKAGE.
7. PROVIDE NEW PICTOGRAM (RUNNING MAN) TYPE EXIT SIGNS, FACES AND INDICATOR ARROWS AS PER DRAWINGS AND UNIVERSAL 120-347VAC. CONNECT NEW EXIT SIGNS TO THE EXIT LIGHTING CIRCUIT SERVING THIS AREA. DO NOT OVERLOAD THE CIRCUIT. ALLOW FOR FIVE (5) ADDITIONAL EXIT SIGNS PER FLOOR (COMPLETE WITH MATERIAL AND LABOUR) TO BE INSTALLED AS PER BUILDING INSPECTORS REQUIREMENTS UPON FINAL INSPECTION.
8. LOCATE AND POSITION EXIT SIGNS SUCH THAT THEY DO NOT INTERFERE WITH ADJACENT EXIT SIGNS AND EMERGENCY LIGHTING COVERAGE.
9. ENSURE THAT ALL LIGHTING FIXTURES ARE CLEAN AND ILLUMINATED BY END OF PROJECT.
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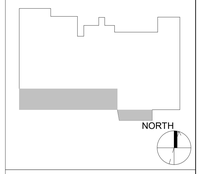
13. COORDINATE ALL WORK TO SUIT PROJECT PHASE SCHEDULE. COORDINATE PHASING WITH ARCHITECT/INTERIOR DESIGN/OC DRAWINGS. PHASING SHOWN IS FOR REFERENCE PURPOSES ONLY.

KEY PLAN :



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6	2025-01-31	ISSUED FOR BID
9	2025-03-21	BID ADDENDUM #03
10	2025-03-25	BID ADDENDUM #04
11	2025-03-28	BID ADDENDUM #05
12	2025-04-30	ISSUED FOR CONSTRUCTION

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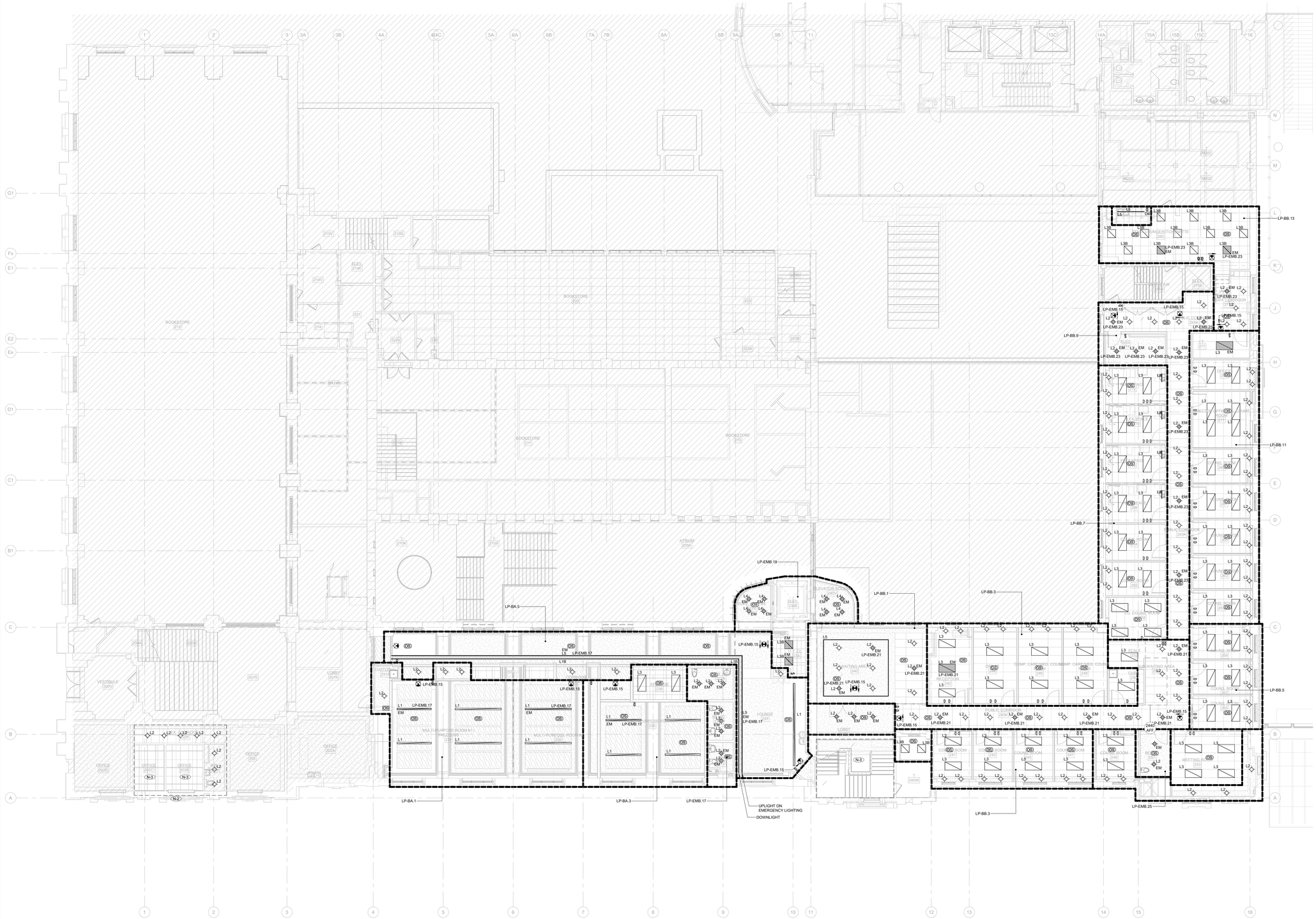

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13. COORDINATE ALL WORK TO SUIT PROJECT PHASE SCHEDULE. COORDINATE PHASING WITH ARCHITECT/INTERIOR DESIGN/CC DRAWINGS. PHASING SHOWN IS FOR REFERENCE PURPOSES ONLY.
14. ALLOW FOR THE REWORKING OF EXISTING CONDUIT/FEEDERS TO ACCOMMODATE NEW SCOPE OF WORK AND/OR INTERFERENCES.

DRAWING NOTES:

N-1 LIGHTING/CEILING DEVICES IN THIS AREA TO BE REMOVED AND REINSTALLED AS REQUIRED TO ACCOMMODATE MECHANICAL WORK IN THIS AREA. COORDINATE THIS SCOPE OF WORK WITH MECHANICAL.

N-2 EXISTING LIGHTING CONTROL IN THIS AREA TO REMAIN.

N-3 EXISTING LIGHT FIXTURES IN THIS AREA TO REMAIN

KEY PLAN :

NORTH

REVISION

NO.	DATE	DESCRIPTION
1	2024-10-04	ISSUED FOR 50%
2	2024-11-15	PERMIT
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SHEET CONTENTS :
LEVEL 02 - LIGHTING PLAN

PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 100

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AREA	ROOM #	OCCUPANCY SENSOR (WALL,CEILING)	ON/OFF	LOCAL CONTROL (SWITCH, WALL STATION, DIMMER)	NOTES
CUSTODIAL ROOMS/STORAGE		WALL	AUTO ON/AUTO OFF		
WASHROOMS		CEILING	AUTO ON/AUTO OFF		LIGHTING ON EM CCT
ELECTRICAL CLOSET/ROOMS				TOGGLE SWITCH	LIGHTING ON EM CCT
IT CLOSET				TOGGLE SWITCH	LIGHTING ON EM CCT
LOUNGE	237	CEILING	AUTO ON/AUTO OFF	3 SCENE WALL STATION	DIM TO 50% DURING 'ON' HOURS BASED ON OCCUPANCY. TURN OFF DURING 'OFF' HOURS
CONSULTING/EXAM ROOMS		CEILING	MANUAL ON, AUTO OFF	DIMMER (L3; D3) DIMMER (L2; D3) SWITCH (L0; D4)	OCCUPANCY SENSOR TO CONTROL ALL LIGHTS IN ROOM. NOT ALL ROOMS HAVE ALL LIGHTING TYYES.
ELEVATOR ACCESS	(1)	CEILING	(2) AUTO ON/AUTO OFF	(3)	(3A) DIM TO 50% BASED ON OCCUPANCY
MULTIPURPOSE ROOM (BY WINDOW)	231	CEILING	MANUAL ON, AUTO OFF	TOUCH SCREEN	WHEN ROOM SENSOR IS IN 'LOW' STATE, TOUCH SCREENS WILL DISPLAY SAVER OPTIONS). WINDOW ZONES WILL OPERATE TOGETHER. INTERIOR ZONES WILL OPERATE TOGETHER. OCCUPANCY SENSORS WILL CONTROL BOTH ZONES.
MULTIPURPOSE ROOMS	231				
MULTIPURPOSE ROOM (BY WINDOW)	233	CEILING	MANUAL ON, AUTO OFF	TOUCH SCREEN	
MULTIPURPOSE ROOMS	233				
MULTIPURPOSE ROOM (BY WINDOW)	235	CEILING	MANUAL ON, AUTO OFF	TOUCH SCREEN	
MULTIPURPOSE ROOMS	235				
LOBBY	240K	CEILING	AUTO ON/AUTO OFF		DIM TO 50% DURING 'ON' HOURS BASED ON OCCUPANCY. TURN OFF DURING 'OFF' HOURS
MEETING ROOM (BY WINDOW)	253	CEILING	MANUAL ON, AUTO OFF	3 SCENE WALL STATION	DAYLIGHT HARVESTING ZONE
MEETING ROOM	254				
WAITING AREA	240	CEILING	AUTO ON/AUTO OFF	DIMMER	
PUBLIC CORRIDOR (SOUTH)	245K			DIMMER	
PUBLIC CORRIDOR (NORTH)	245K			DIMMER	

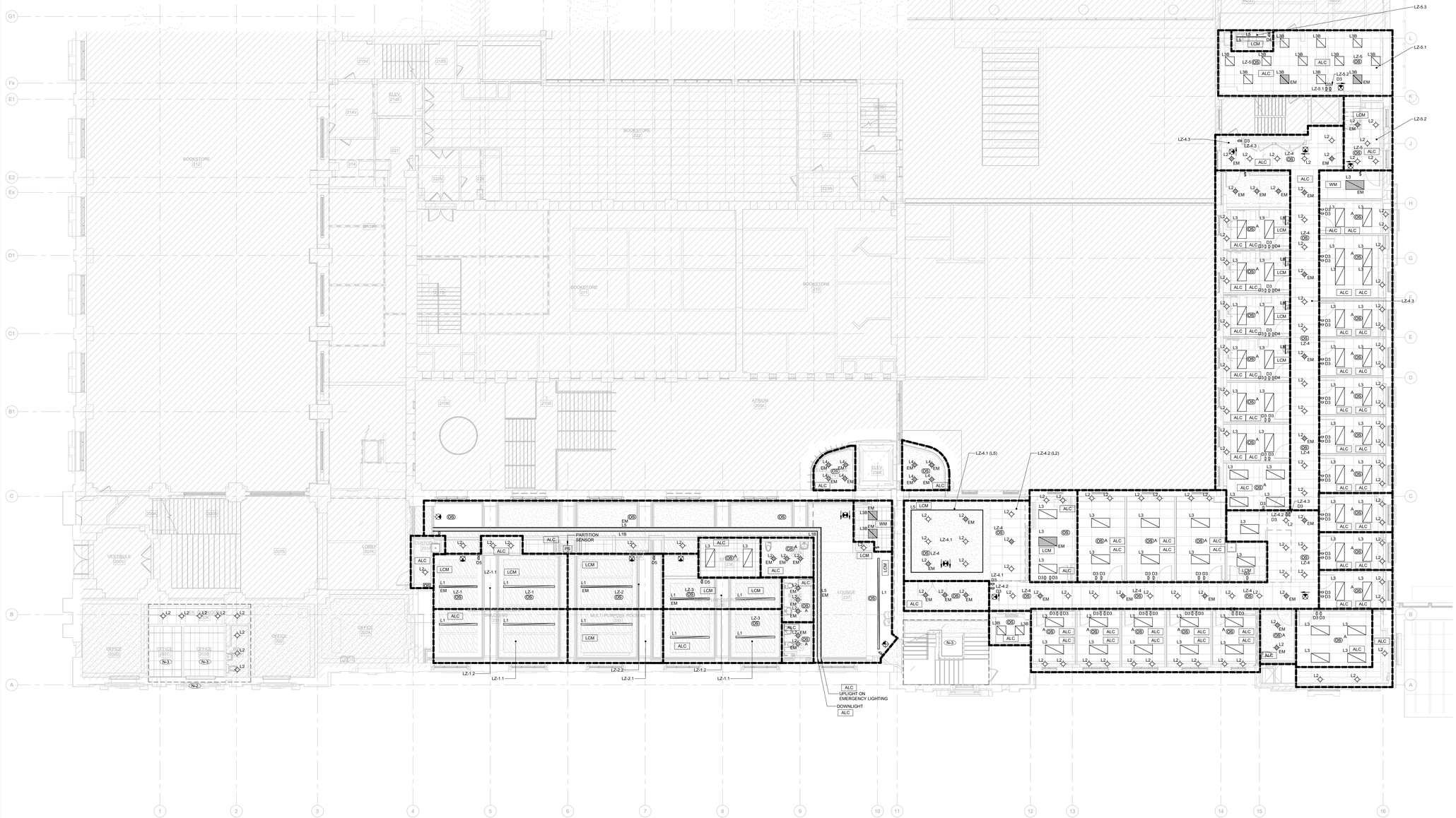
STAFF CORRIDOR	277K	CEILING	AUTO ON/AUTO OFF	DIMMER	
STAFF LOUNGE/KITCHENETTE	280				
STAFF LOUNGE/KITCHENETTE	280		MANUAL ON/AUTO OFF	WALL SWITCH	UNDER CABINET LIGHT
RECEPTION	243	CEILING	MANUAL ON, AUTO OFF	3 SCENE WALL STATION	

NOTE:
1. UNLESS NOTED OTHERWISE, ALL SENSORS TO BE SET TO 20 MINUTE OFF DELAY
2. MULTIPLE AREAS/ZONES CONTROLLED BY CEILING SENSORS SHALL BE ON/OFF TOGETHER WITH LOCAL CONTROL (AS SHOWN)
3. PROVIDE SHUNT TRIP RELAY AS REQUIRED FOR ROOMS WITH TOGGLE SWITCH CONTROLS AND EM LIGHTING CIRCUIT

DEFAULT SCENE WALL STATION LEVELS

	SCENE	LEVEL
3S	1	100
	2	75
	3	50
5S	1	100
	2	75
	3	50
	4	40
	5	75

ALL LEVELS TO BE CONFIRMED WITH LIGHTING SYSTEM COMMISSIONING



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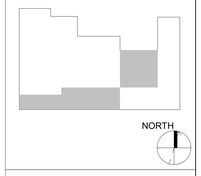

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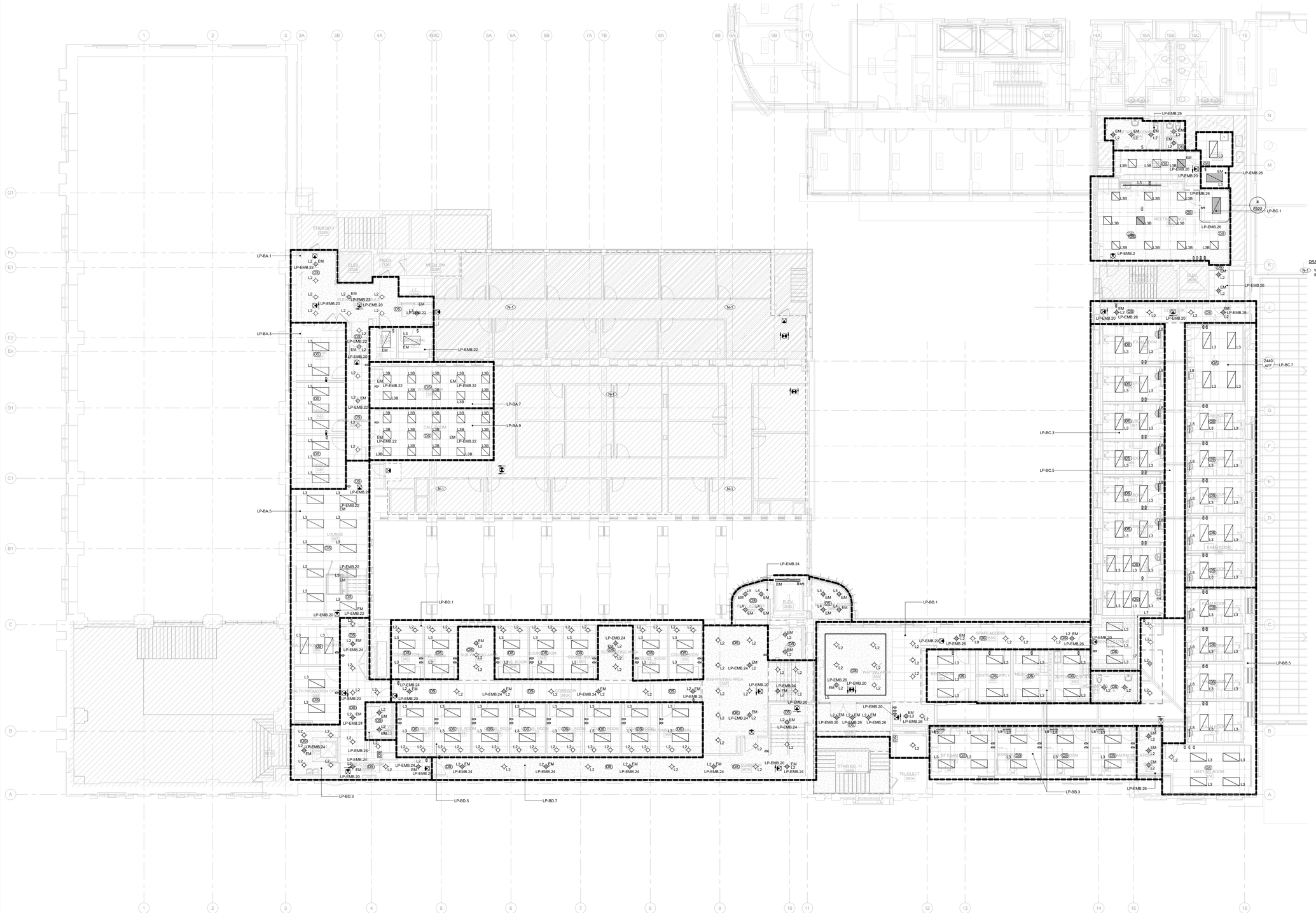

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DRAWING NOTES:

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6	2025-01-31	ISSUED FOR BID
10	2025-03-25	BID ADDENDUM #04
12	2025-04-30	ISSUED FOR CONSTRUCTION

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UNIVERSITY OF TORONTO

PROJECT :
HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :
LEVEL 03 - LIGHTING PLAN

PROJECT NUMBER :
21590.003
DRAWING SCALE :
1 : 100

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

SHEET NO :
E403
REV :
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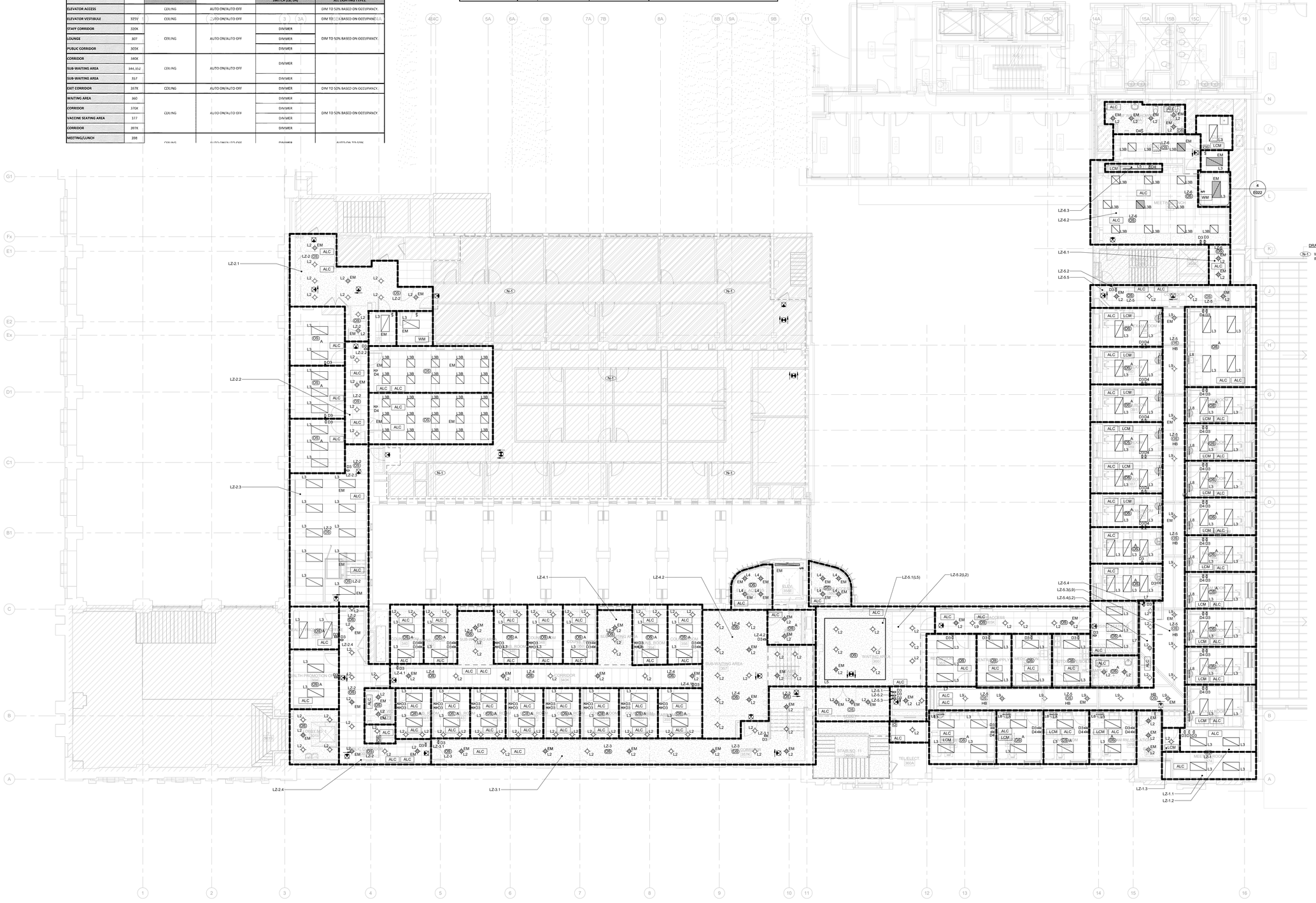
AREA	ROOM #	OCCUPANCY SENSOR (WALL/CEILING)	ON/OFF	LOCAL CONTROL (SWITCH, WALL STATION, DIMMER)	NOTES
CUSTODIAL ROOMS/STORAGE		WALL	AUTO ON/AUTO OFF		
WASHROOMS		CEILING	AUTO ON/AUTO OFF		LIGHTING ON EM CCT
BF WASHROOM & SHOWER	399A			TOGGLE SWITCH	LIGHTING ON EM CCT
ELECTRICAL CLOSETS/ROOMS				TOGGLE SWITCH	LIGHTING ON EM CCT
IT CLOSET				TOGGLE SWITCH	LIGHTING ON EM CCT
LOBBY	360V	CEILING	AUTO ON/AUTO OFF		DIM TO 50% BASED ON OCCUPANCY.
CONSULTING/EXAM ROOMS		CEILING	MANUAL ON, AUTO OFF	DIMMER (L1; D3) DIMMER (L2; D3) SWITCH (L8; D4)	OCCUPANCY SENSOR TO CONTROL ALL LIGHTS IN ROOM. NOT ALL ROOMS HAVE ALL LIGHTING TYPES.
ELEVATOR ACCESS		CEILING	AUTO ON/AUTO OFF		DIM TO 50% BASED ON OCCUPANCY.
ELEVATOR VESTIBULE	325V	CEILING	AUTO ON/AUTO OFF		DIM TO 50% BASED ON OCCUPANCY.
STAFF CORRIDOR	320K	CEILING	AUTO ON/AUTO OFF	DIMMER	DIM TO 50% BASED ON OCCUPANCY.
LOUNGE	307			DIMMER	
PUBLIC CORRIDOR	305K			DIMMER	
CORRIDOR	340K	CEILING	AUTO ON/AUTO OFF	DIMMER	
SUB-WAITING AREA	344,352				
SUB-WAITING AREA	357			DIMMER	
EXIT CORRIDOR	357K	CEILING	AUTO ON/AUTO OFF	DIMMER	DIM TO 50% BASED ON OCCUPANCY.
WAITING AREA	360	CEILING	AUTO ON/AUTO OFF	DIMMER	DIM TO 50% BASED ON OCCUPANCY.
CORRIDOR	370K			DIMMER	
VACCINE SEATING AREA	377			DIMMER	
CORRIDOR	397K			DIMMER	
MEETING/LUNCH	398	CEILING	AUTO ON/AUTO OFF	DIMMER	AUTO ON TO 50%
LOCKERS	399	CEILING (FIXTURES TO BE ON/OFF TOGETHER)	AUTO ON/AUTO OFF	DIMMER	AUTO ON TO 50%
MEETING/LUNCH (L4 FIXTURE)	398		MANUAL ON/ AUTO OFF	WALL SWITCH	UNDER CABINET LIGHT

NOTE:
1. UNLESS NOTED OTHERWISE, ALL SENSORS TO BE SET TO 20 MINUTE OFF DELAY
2. MULTIPLE AREAS/ZONES CONTROLLED BY CEILING SENSORS SHALL BE ON/OFF TOGETHER WITH LOCAL CONTROL (AS SHOWN)
3. PROVIDE SHUNT TRIP RELAY AS REQUIRED FOR ROOMS WITH TOGGLE SWITCH CONTROLS AND EM LIGHTING CIRCUIT

DEFAULT SCENE WALL STATION LEVELS

	SCENE	LEVEL	
3S	1	100	FINAL LEVELS TO BE CONFIRMED WITH CLIENT DURING SYSTEM COMMISSIONING
	2	75	
	3	50	
5S	1	100	
	2	75	
	3	50	
	4	40	
	5	25	



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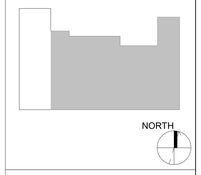

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LEVEL 03 - LIGHTING CONTROL PLAN

PROJECT NUMBER :
21590.003

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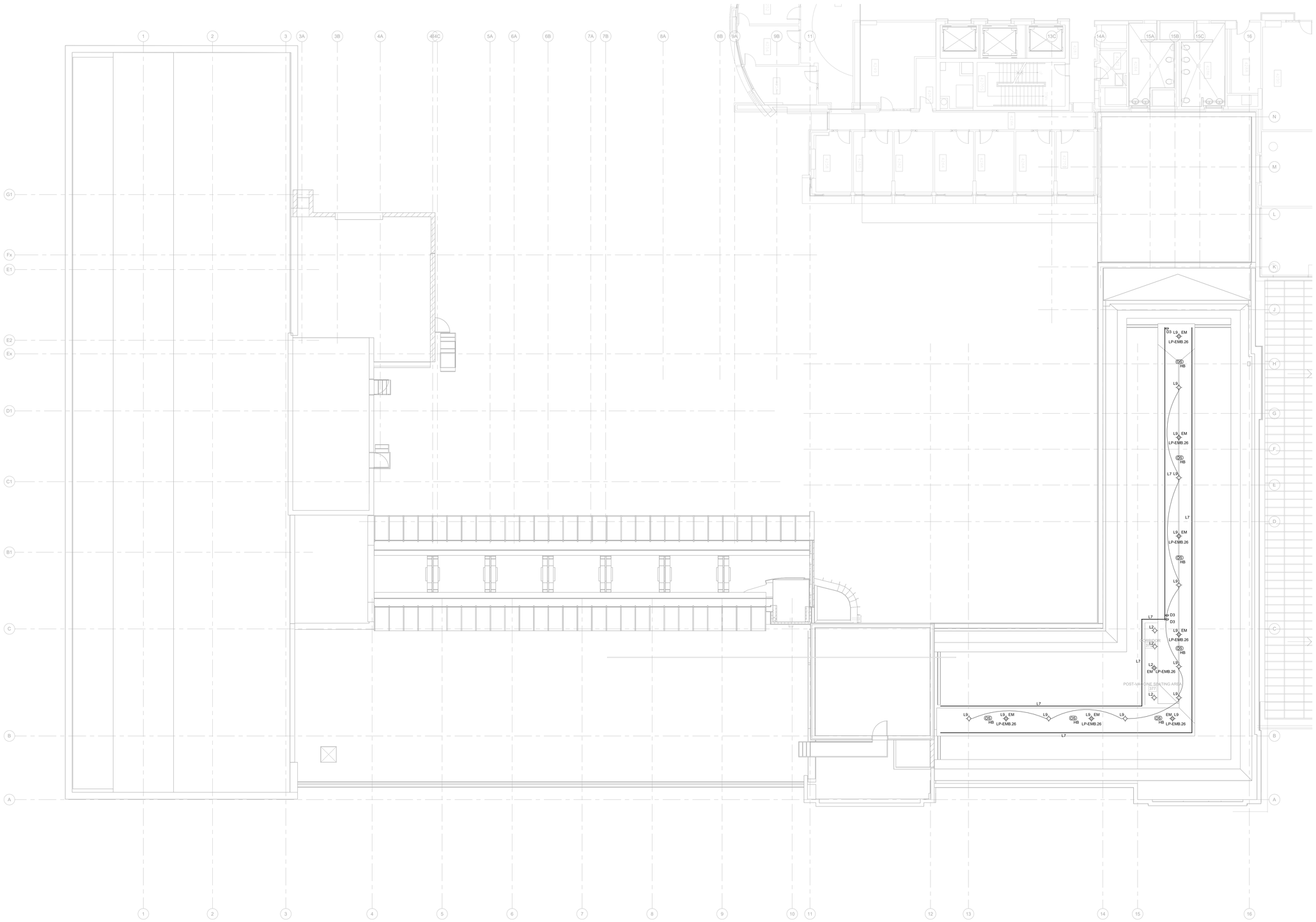

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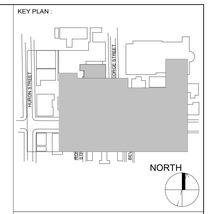

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SHEET CONTENTS :
LEVEL 04 - LIGHTING PLAN

PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 100

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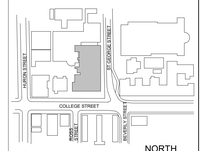

SECURITY NOTES:

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 ENSURE 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:

1. 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.
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 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 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.
7. 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.
8. REVIEW ALL PROJECT RELATED ARCHITECTURAL, MECHANICAL, ELECTRICAL, COMMUNICATIONS AND AV DRAWINGS AND SPECIFICATIONS, DISCERN AND COORDINATE 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, FABRIC PANELS, OR ACCENT FINISHES/DETAIL 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 INDICATED SPECIFICALLY ON AN ELEVATED DRAWING.
11. INFORM THE ENGINEER'S REPRESENTATIVE AND GC OF ALL DEVICE AND FURNITURE CONFLICTS PRIOR TO INSTALLATION. OBTAIN RESOLUTION TO DEVICE AND FURNITURE CONFLICTS FROM THE ENGINEER'S REPRESENTATIVE PRIOR TO INSTALLATION.
12. 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:

1. 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.
2. CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND CONTRACTOR PRIOR TO ROUGH-INS.
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 WITH ARCHITECT/INTERIOR DESIGN/GC DRAWINGS. PHASING IF SHOWN IS FOR REFERENCE PURPOSES ONLY.

DRAWING NOTES:

N-1 TIE KITCHEN HOOD FIRE SUPPRESSION SYSTEM TO BASE BUILDING FIRE ALARM SYSTEM AS SEPARATE ZONE. ALLOW FOR UPDATING OF FIRE ALARM ZONE SCHEDULE.

N-2 REFER TO POWER AND SYSTEMS DRAWINGS FOR AUTOMATIC DOOR OPERATOR LOCATIONS. SECURITY CONTRACTOR SHALL COORDINATE SECURITY ACCESS CONTROL WITH ADD DOORS.

REVISION

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
9	2025-03-21	BID ADDENDUM #03
11	2025-03-28	BID ADDENDUM #05
12	2025-04-30	ISSUED FOR CONSTRUCTION

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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 01 - FIRE ALARM & SECURITY PLAN

PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 100

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

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E501

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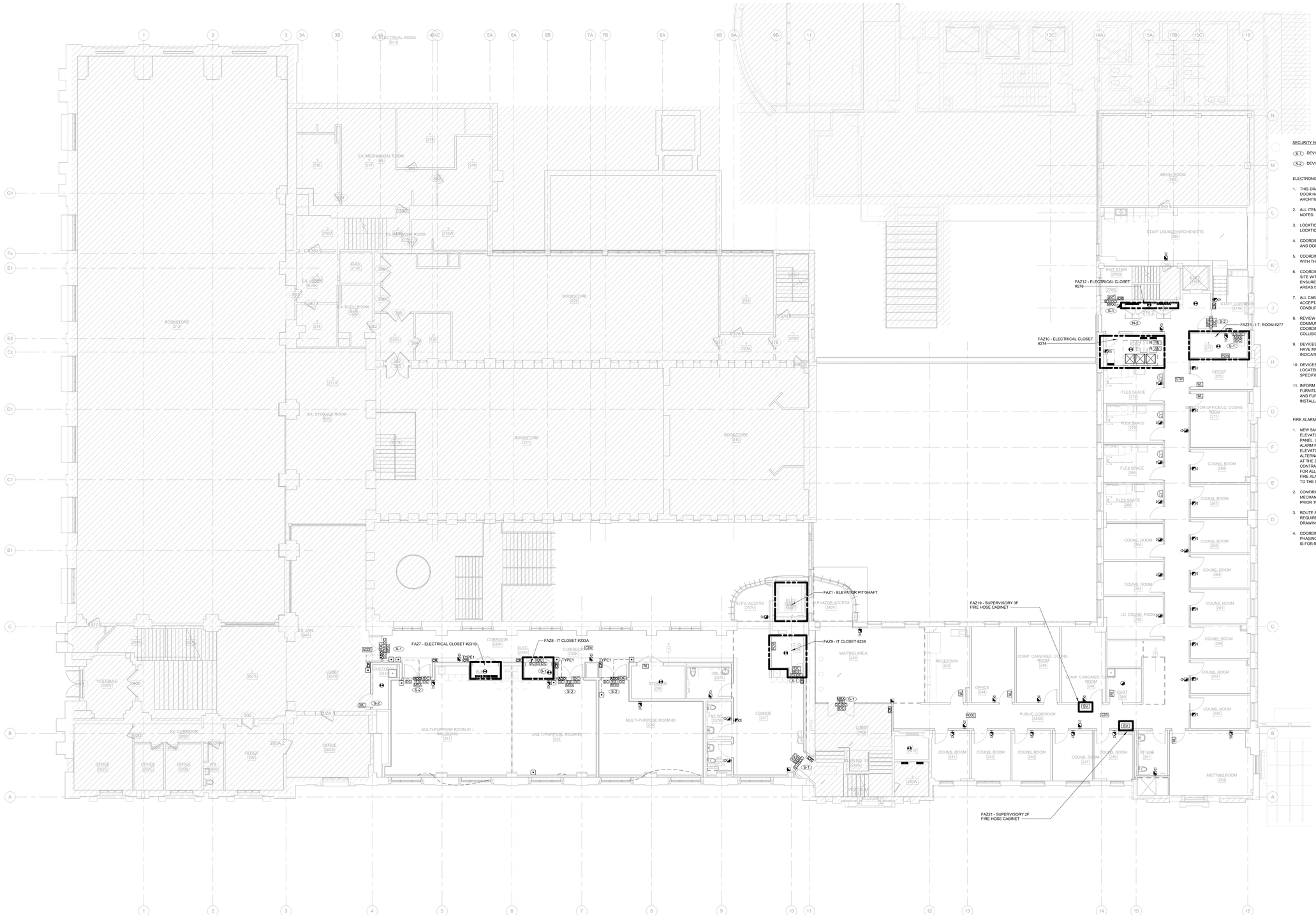

SECURITY NOTES:

(S-1) DEVICES CONNECTED TO HONEYWELL ACCESS CONTROL SYSTEM.

(S-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 DOOR HARDWARE SCHEDULE AS WELL AS THE PROJECT RELATED ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS.
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 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 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.
7. 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.
8. REVIEW ALL PROJECT RELATED ARCHITECTURAL, MECHANICAL, ELECTRICAL, COMMUNICATIONS AND AV DRAWINGS AND SPECIFICATIONS, DISCERN AND COORDINATE 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, FABRIC PANELS, OR ACCENT FINISHES/DETAIL 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 INDICATED SPECIFICALLY ON AN ELEVATED DRAWING.
11. INFORM THE ENGINEER'S REPRESENTATIVE AND GC 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:

1. 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.
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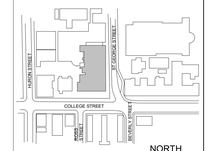
3. ROUTE ALL CONDUIT SYSTEMS AROUND DUCT WORK, BEAMS AND PIPING AS REQUIRED TO ACCOMMODATE LAYOUT SHOWN. REFER TO MECHANICAL DRAWINGS AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS.
4. COORDINATE ALL WORK TO SUIT PROJECT PHASE SCHEDULE. COORDINATE PHASING WITH ARCHITECT/INTERIOR DESIGN/GC DRAWINGS. PHASING IF SHOWN IS FOR REFERENCE PURPOSES ONLY.

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.

KEY PLAN :



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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 02 - FIRE ALARM & SECURITY PLAN

PROJECT NUMBER : **21590.003**

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Author	Checker	Issue Date

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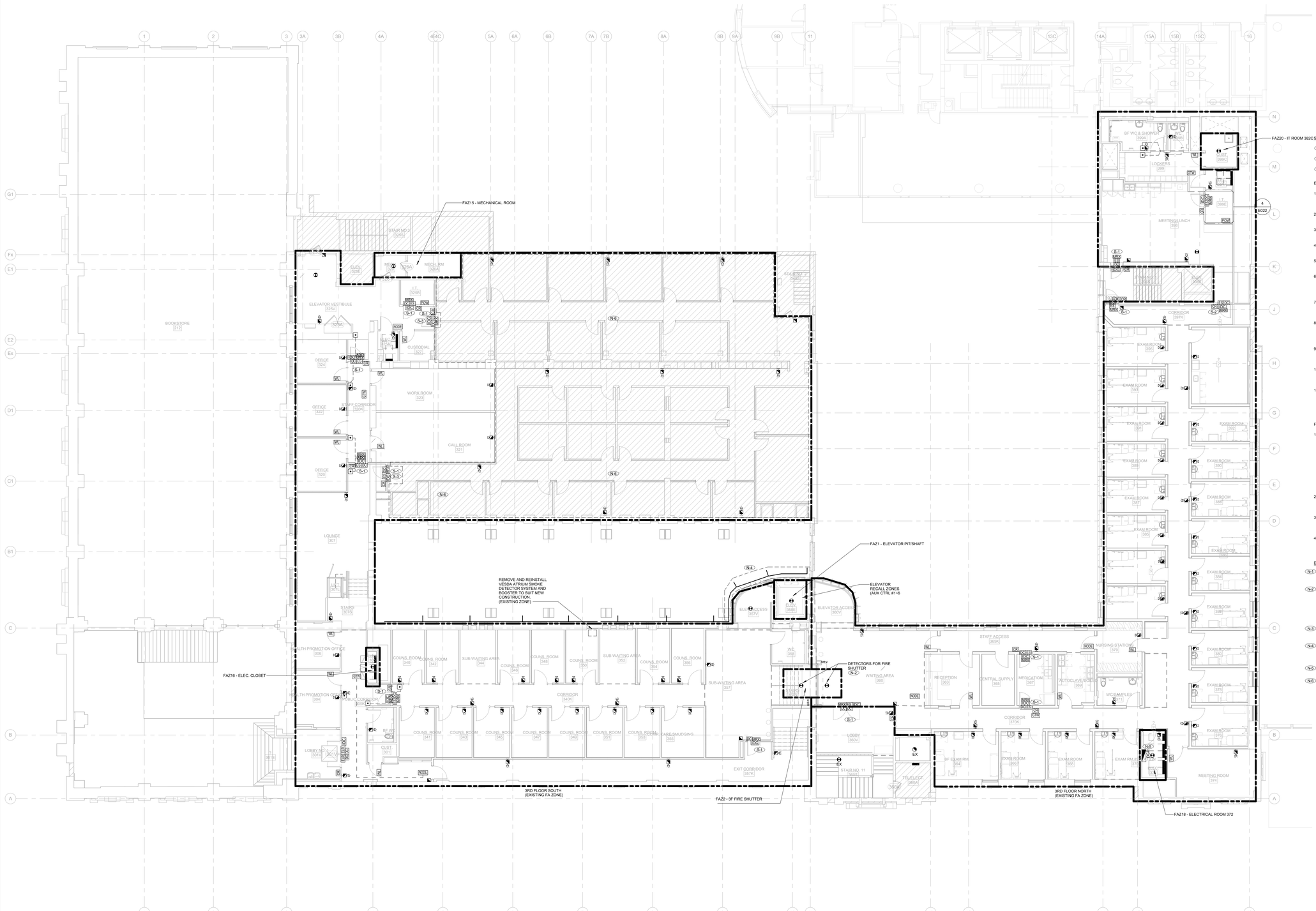

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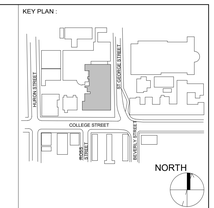

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12	2025-04-30	ISSUED FOR CONSTRUCTION

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:

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FIRE ALARM GENERAL NOTES:

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DRAWING NOTES:

N-1 INCLUDE IN THE COST FOR XTRALIS SITE VISIT TO CONFIRM EXISTING SITE CONDITIONS TO PREPARE DOCUMENTATION REQUIRED FOR ADJUSTMENT OF XTRALIS 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 UP/DOWN CONTROL KEY SWITCH ON WALL TO CONTROL FIRE SHUTTER. COORDINATE WIRING REQUIREMENTS WITH GC AND FINAL LOCATION OF SWITCH ON SITE WITH ARCHITECT. COORDINATE THIS NEW 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 ACTIVATIONS 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 ADJ DOORS.

N-4 MODIFY EXISTING VESDA SMOKE DETECTION SYSTEM IN ATRIUM AS SHOWN AS WELL AS THE RELOCATION OF THE CONTROL PANEL. ELECTRICIAN TO CONTACT XTRALIS FOR REQUIRED SCOPE OF WORK AND TO INCLUDE ALL ASSOCIATED COSTS IN THE BID (INCLUDING TESTING AND VERIFICATION).

N-5 NEW DGP 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.

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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

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Author	Checker	Issue Date

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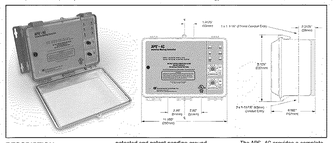

Automatic Snow/Ice Melting System Control Panel
MODEL APS®–4C SNOW SWITCH®

DATA SHEET

We Manage Heat®

Supplied and Supported By TRM

FEATURES & BENEFITS

- Automatic snow/ice melting control
- Satellite contactor interface for larger systems
- Energy management computer (EMC) interface
- Accommodates MI, constant wattage and self-limiting heaters
- Multiple sensor capability
- Advanced patented and patent pending ground fault protection
- Heater hold-on and test capabilities
- C-UL-US
- Simple to install and operate
- Low system costs
- Minimum energy costs

DESCRIPTION

The APS–4C Snow Switch when used with one, or more, compatible sensors automatically controls snow/ice melting heaters for minimum energy costs. Applications include pavement, sidewalk, loading dock, roof, gutter and down spout snow/ice melting in commercial and industrial environments. The APS–4C is interchangeable with the earlier APS–4.

The adjustable hold-on timer continues heater operation for up to 10 hours after snow stops to ensure complete melting. The optional RCU–4 Remote Control Unit can be located where system operation can be conveniently observed. It duplicates many of the APS–4C front panel functions.

The APS–4C provides advanced patented and patent pending ground fault equipment protection (GFEP) as required by the USA and Canadian National Electric Codes. The GFEP automatically tests itself every time the heater contactors operate and once every 24 hours. The trip current can be set at 60 or 120 mA via an internal switch or retained at the 30 ma default value. As an aid to troubleshooting heater ground faults, the APS–4C provides an output that can indicate the ground current on a service person's portable DVM.

The calibrated 40°F to 90°F (4°C to 32°C) high limit thermostat prevents excessive temperatures when using constant wattage and MI heaters. It also permits safe testing at outdoor temperatures too high for continuous heater operation. The temperature sensor is included.

The APS–4C provides a complete interface for use in environments supervised by an energy management computer (EMC). This feature can also be used for general purpose remote control and annunciation.

All sensor and communications wiring is NEC Class 2. This simplifies installation while enhancing fire and shock safety. The APS–4C can interface up to six sensors from the CIT–1 product family. Using more sensors provides superior performance by better matching the controller to site performance requirements.

The APS–4C is an exceptionally capable deicing controller. For complete information describing its application, installation and features, please contact Customer Service or check on the web at www.networketi.com.

22688 rev B 05/08 (800) 234-4239 http://www.networketi.com Environmental Technology, Inc. 1 of 3

Single–Point General Purpose Heat–Trace Control
TRACON MODEL GPT 130

DATA SHEET

We manage heat® Heating Cables

The GPT 130 Heat–Trace Control is a single–point microprocessor–based heat–trace control thermostat. It is ideal for applications which require Ground–Fault Equipment Protection (GFEP). Ideal uses include freeze protection, hot water temperature maintenance, grease line trace, tank heating, and other temperature monitoring and control applications.

The GPT 130 Heat–Trace Control operates from the heater's power source. A universal power supply allows the GPT 130 to operate from 100 V ac to 277 V ac, and control a resistive load up to 30 A.

Adjustable Temperature Setpoint and Alarms
The temperature setpoint is adjustable from –99.9 °F to 999 °F (–73.3 °C to 537.7 °C) to a tenth degree resolution.

Sensor Inputs
The GPT 130 comes with a 100K ohm thermistor temperature sensor with a 20 ft. jacketed cable. The included sensor has an operating range of –40 °F to 230 °F (–40 °C to 110 °C). The GPT 130 can also use 2–, 3–, or 4–wire RTD sensors for systems requiring high–temperature sensing.

Precision Monitoring and Control
The GPT 130 monitors temperature, load current, and ground leakage current. Alarms include high temperature, low temperature, high load current, low load current, ground fault, sensor fault, internal fault, and power fail. These alarms are easy to adjust and observe from the front panel. The GPT 130 can be set to energize or de-energize the heaters during a sensor fault.

Ground–Fault Equipment Protection
The GPT 130 Heat–Trace Control includes integral GFEP. This eliminates the extra expenses associated with having to provide separate GFEP components in the circuit panel. The GPT 130 normally disconnects power immediately when ground fault current exceeds the set value. If it is set to Fire Protect mode, for critical fire protection systems, then it will generate the alarm but power will be maintained to prevent freezing.

Automatic GFEP Circuit Self–Test
To ensure continued safe operation, the GPT 130 performs a self–test of the GFEP circuit when power is first applied, along with a load ground fault test, and this repeats periodically thereafter at an adjustable interval.

For complete information describing its application, installation, and features, please contact Customer Service or check on the web at networketi.com.

25239 rev 6/17 (800) 234-4239 www.networketi.com ENVIRONMENTAL TECHNOLOGY, INC. 1 of 2

DATA SHEET

SNOW OWL
AERIAL GENERAL-PURPOSE SNOW SENSOR

FEATURES & BENEFITS

- Automatic snow sensor for reduced energy consumption in sidewalk, gutter/downspout snow and ice melting applications
- Slim design minimizes visual impact
- Mounts on 3/4" PVC conduit for easy installation
- Operates on safe low voltage power
- Simple three wire connections: 2 for power, 1 for signal output
- Wire colors match commonly available cable for easier installation
- Convenient power-on self-test to verify proper sensor operation
- Made with UV-tolerant and corrosion-resistant materials for long life
- Made in the U.S.A.

DESCRIPTION

- The ETI Snow Owl is designed to work with a controller or contactor, optimizing energy usage in heated snow/ice melting applications. The ETI Snow Owl is also an excellent solution for building automation applications.
- During dry or warm weather, the system's heaters are turned off to save energy costs. The heaters are turned on only when snow and/ or ice is present, and kept on only long enough to ensure complete melting and drying. Temperature and time parameters are preset for optimum system performance.
- Typical applications include controlling snow melting systems or sidewalks, doorways, stairs, loading docks, ramps for the physically challenged and parking garages. Easy installation is another key Snow Owl feature. Low voltage operation, up to 2,000' (609.6m) separation from the control panel, mast or roof mounting, and non-critical extension wiring are just a few of the features making this possible.
- For complete information describing its application, installation and features, please contact Customer Service or check on the web at www.networketi.com.

DATA SHEET | PART NO. 25485REV0.0

MINERAL INSULATED COPPER HEATING CABLES

TRM Heating Cables

KEY FEATURES

- ✓ PERFECT FOR SNOW MELTING IN CONCRETE/ASPHALT
- ✓ USE ON INSTALLATIONS OF 120 – 600 VOLTS
- ✓ RANGE OF DESIGNS, RESISTANCES, AND WATTAGES
- ✓ EASY TO FAULT LOCATE AND REPAIR

DESCRIPTION

Thermal Resources Management brand mineral insulated (MI) copper heating cables are ideal for embedded applications, such as snow melting in concrete or asphalt slabs. Cables are manufactured with a copper sheath and an HDPE jacket, yielding a durable yet flexible cable, allowing for easy installation. Our cables are CSA approved and are rated for applications including, but not limited to: embedded snow melting applications, frost heave prevention, underslab heat loss replacement, comfort floor warming, animal pen heating, pipe tracing, trench drain de-icing, etc.

Designed to yield up to a maximum of 30 watts per linear foot of cable, the Metal Sheathed MI Cable is the most durable heating cable available. The cables are manufactured with HDPE jacketing to protect them from corrosives in embedded applications, and are factory prepared as pre-terminated heating units, complete with cold leads. Standard heating element designs are carried in stock with FAST DELIVERY to meet engineering specifications.

TECHNICAL SPECIFICATIONS	
Sheath Material	Solid Copper
Voltage	120V – 600V rated • Cables to be designed for use on project specific available voltage
Insulation Material	MgO-Highly compressed Magnesium Oxide
Conductors	Single conductor configuration
Nominal Cable Resistance at 20°C	0.91 ohms per foot – 0.00452 ohms per foot
Jacketing Material	High Density Polyethylene (HDPE)
Cold Leads	AWG size determined to reflect electrical code requirements: 14 to 4 AWG sizes available and designed to suit specific cables • Cold leads come at a standard 7' to 15' lengths, but cold leads can be extended to longer lengths to suit your application • Jacketed cold leads come with PVC shroud
Glands	Brass NPT (1/2" standard)

Thermal Resources Management (TRM) Inc.
175 Idema Road, Markham, ON, Canada, L3R 1A9
Tel: 1-905-940-4737 Fax: 1-905-940-4731
ryan@trmheatingcables.com
www.trmheatingcables.com

Project name

MI Heating Cable – Typical Concrete – Cable on Mesh with Waterproofing Membrane Cross Section

Concrete 1 Pour – Cables on Mesh with Waterproofing Notes:
- Apply the hot waterproof membrane over a pre sand-blasted concrete base slab.
- Use chairs or rebar to raise the cable up so that the final elevation of the cable is within 2-3" of the completed surface.
- Lay a 6" x 6" mesh on top the chairs and strap the heating cable to this mesh using tie-wraps.
- If using a slab sensing thermostat, install a 0.5" metal conduit between two runs of heating cable and away from high concentrations of heating cable. *You may install the thermostat at this time.*
- Ensure the heating cable is covered with a minimum of 2.5" of concrete.

NOTES:
1) CONCRETE SUBSTRATE BLAS-TRACKED OR SAND BLASTED
2) HOT APPLIED MEMBRANE WITH ASPHALTIC PROTECTION BOARD
3) 6X6 #8 MESH SUPPORTED ON CHAIRS SPACING OF CHAIRS NOT TO EXCEED 18 INCHES (460mm) IN ANY DIRECTION. FINAL ELEVATION OF CABLES TO BE WITHIN 2 TO 3 INCHES (50 TO 75 mm) FROM THE COMPLETED SURFACE.
4) TY-WRAP TRM HEATING CABLES ON 6X6 MESH
5) CONCRETE TOPPING

CABLES CANNOT BE IN DIRECT CONTACT WITH THE WATERPROOFING MEMBRANE! CABLES WILL BURNOUT, AND THE MEMBRANE WILL MELT.

Drawing Number:	Scale: N.T.S.	Project Status: Construction	
Thermal Resources Management TRM Heating Cables	Drawn by: IP	Approved: ________	
	135 St Clair Ave West	Date of issue:	
		Rev.: 0	Page:

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175 Idema Road, Markham, ON, Canada, L3R 1A9
Tel: 1-905-940-4737 Fax: 1-905-940-4731
ryan@trmheatingcables.com
www.trmheatingcables.com

MI Heating Cable – Typical Trench Drain – Separate from Ramp exiting through side wall Cross Section

Pre-Fabricated Trench Drain Notes:
- Trench to be heated by 2 runs of Heating Cable.
- The trench drain cavity must accommodate the trench drain vessel with 2-3" of clearance on all sides/bottom.
- Heating Cable to be attached to 6"x6" mesh which has been suspended within the trench cavity, allowing 2-3" distance from the heating cables to the outside of the trench drain vessel.
- Trench drain cavity (including mesh/ heating cable) must be filled with hydraulic cement, ensuring the heating cable is full embedded approx. 2-3" away from the trench drain vessel.
- Designed output: 40 Watts / Ft²

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Thermal Resources Management TRM Heating Cables	Drawn by: IP	Approved: ________	
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		Rev.: 0	Page:

DRAWING NOTES :

(N-1) RAMP/STAIRS SNOW MELTING SYSTEM:

ELECTRICAL CONTRACTOR TO SUPPLY & INSTALL THE FOLLOWING FOR A COMPLETE AND FUNCTIONING SYSTEM:
* (3) TRM BRAND MI HEAT CABLE 11000W/600V MODEL NUMBER "MI-HEAT-11000/600".
* (1) APS-4C AUTOMATIC CONTROLLER WITH BUILT IN GFI + CONTACTOR RATED TO 50A AT 600V.
* (1) SNOW OWL AERIAL SNOW SENSOR

PROVIDE POWER PROVISION C/W DISCONNECT SWITCH, BOXES, CONDUITS AND WIRING AND COORDINATE WITH THE SUPPLIER AND ALL OTHER TRADES AT SITE AS REQUIRED.

(N-2) TRENCH DRAIN SNOW MELTING SYSTEM:

ELECTRICAL CONTRACTOR TO SUPPLY & INSTALL THE FOLLOWING FOR A COMPLETE AND FUNCTIONING SYSTEM:
* (1) CUSTOM TRM BRAND MI HEAT CABLE 1957W/120V MODEL NUMBER "MI-HEAT-1957/120", FOR THE LONG TRENCH DRAIN.
* (1) CUSTOM TRM BRAND MI HEAT CABLE 333W/120V MODEL NUMBER ALLOY-825-MI-HEAT-333/120", FOR THE SHORT TRENCH DRAIN.
*(1) GPT 130 THERMOSTAT CONTROLLER WITH BUILT IN GFI PROTECTION AND CONTACTOR RATED TO 30A AT 120V.

PROVIDE POWER PROVISION C/W DISCONNECT SWITCH, BOXES, CONDUITS AND WIRING. COORDINATE WITH THE SUPPLIER AND ALL OTHER TRADES AT SITE AS REQUIRED.

(N-3) INSTALL SNOW SENSOR IN LOCATION AS INDICATED, AT ROOF LEVEL ON DRAWING #E305. REFER TO MANUFACTURER'S INSTALLATION MANUAL FOR CORRECT INSTALLATION METHOD AND COORDINATE WITH ALL OTHER TRADES AT SITE AS REQUIRED.

(N-4) PROVIDE NEW CONDUITS AND WIRING FROM SENSOR TO CONTROL PANEL AS REQUIRED. NEW CONDUIT SHALL RUN INSIDE THE BUILDING. INSTALLATION OF CONDUITS ON FACADE/EXTERIOR WALL ARE NOT ALLOWED AND MUST BE AVOIDED.

(N-5) EXTEND COLD LEADS IN BOTH TRENCH DRAINS MI CABLES TO RESPECTIVE JUNCTION BOXES AS INDICATED. COORDINATE WITH SUPPLIER AND GENERAL CONTRACTOR FOR EXACT LOCATION AND INSTALLATION METHOD PRIOR ROUGH-IN. JUNCTION BOXES SHALL BE WITHIN 10' OF HEATED SLABS.

(N-6) PROVIDE WIRING AND CONDUIT TO UNIVERSITY OF TORONTO BAS SYSTEM TO MONITOR SNOW MELTING/TRENCH HEATING SYSTEM. CONFIRM EXACT ROUTING ON SITE, COORDINATE THIS SCOPE OF WORK WITH MECHANICAL.

WARRANTY NOTE:

ELECTRICAL CONTRACTOR SHALL PROVIDE FIVE (5) YEARS MANUFACTURER'S EXTENDED WARRANTY OF SNOW MELTING SYSTEMS TO COVER DEFECTS IN WORKMANSHIP AND MATERIALS. INCLUDE ALL ASSOCIATED COST IN TENDER PRICE AS REQUIRED.

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KEY PLAN :

REVISION

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SEAL :

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UNIVERSITY OF TORONTO

PROJECT :
HEALTH AND WELLN
CENTRE RENOVATIO
KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

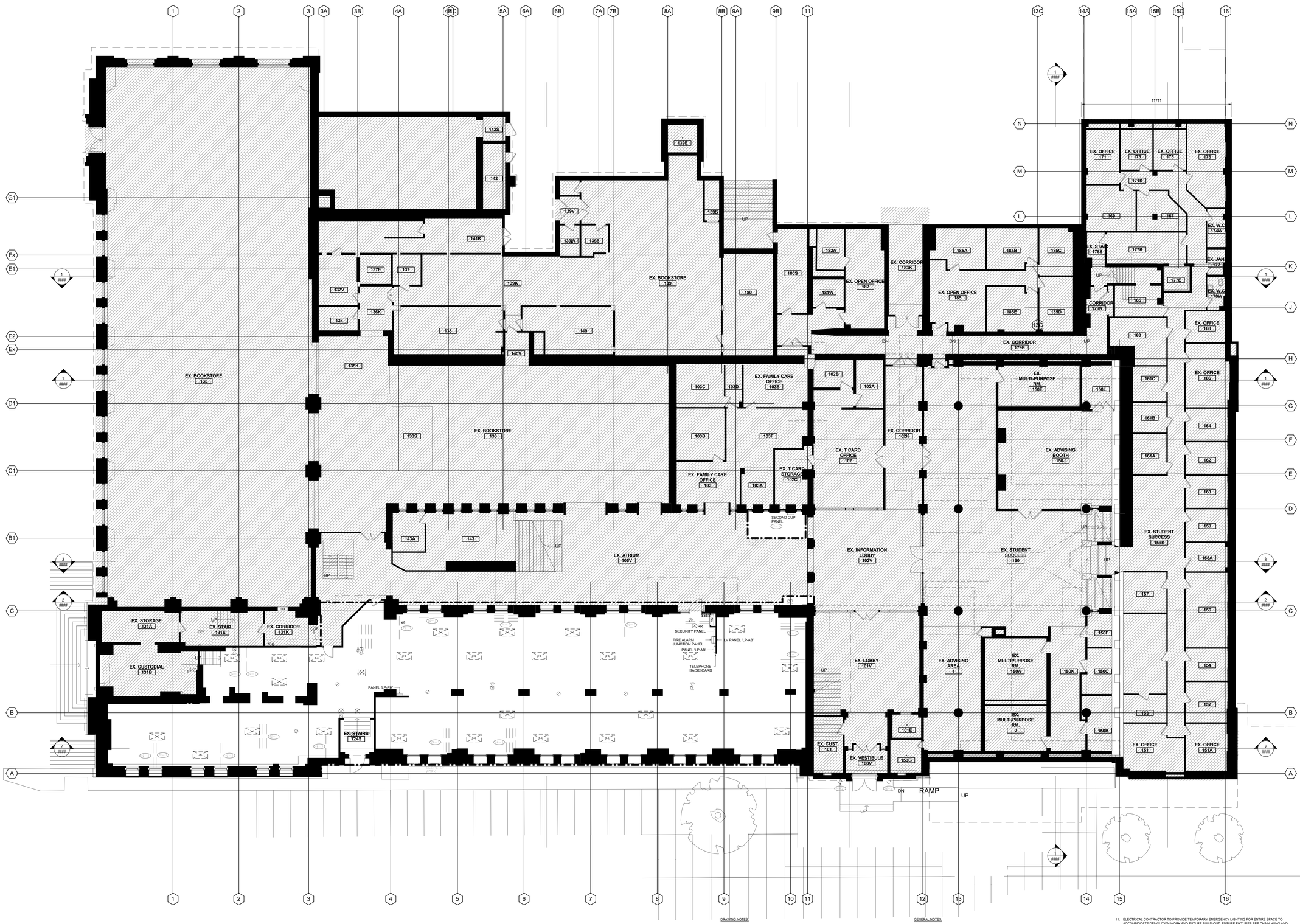
SHEET CONTENTS :
SNOWMELTING SYSTEM LAYOUT

PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 25

DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue

SHEET NO :
E600



DRAWING NOTES:

- EXISTING UNUSED/EMPTY FEEDER/CONDUIT TO BE REMOVED.
- DISCONNECT AND REMOVE EXISTING WALL PACK C/W WIRING BACK TO SOURCE AND MAKE SAFE. REUSE EXISTING CONDUIT(S) PASSING THROUGH EXTERIOR WALL AND PROVIDE NEW BOXES, CONDUITS, AND WIRING TO NEW EXTERIOR LIGHTING AS REQUIRED.
- DEMOLISH EXISTING ELECTRICAL PANEL C/W FEEDER ONLY. EXISTING CONDUIT TO REMAIN AND MADE SAFE.

GENERAL NOTES:

1. REFER TO THE INTERIOR DESIGNER'S/ARCHITECT'S DRAWINGS TO DETERMINE COMPLETE EXTENT OF DEMOLITION AND ALLOW FOR ALL COSTS. COMPLETE EXTENT OF DEMOLITION IS NOT SHOWN.
2. REMOVE ALL FLOOR, COLUMN, CEILING, AND WALL MOUNTED POWER, TELEPHONE/DATA OUTLETS, CABLING AND CONDUIT NOT REQUIRED, TO SUIT NEW LAYOUT AND MAKE SAFE. VISIT SITE TO DETERMINE EXACT REQUIREMENTS AND REFER TO DEMOLITION DRAWINGS.
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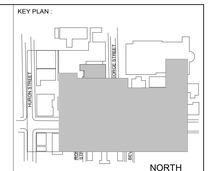
16. ALLOW FOR THE REROUTING OF EXISTING CONDUIT/FEEDERS TO ACCOMMODATE STRUCTURAL REPAIRS. TYPICAL OF TEN (10) C/W 100' OF CONDUIT/FEEDERS.

KEY PLAN :



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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 01 - ELECTRICAL - DEMOLITION

PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 100

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

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E701

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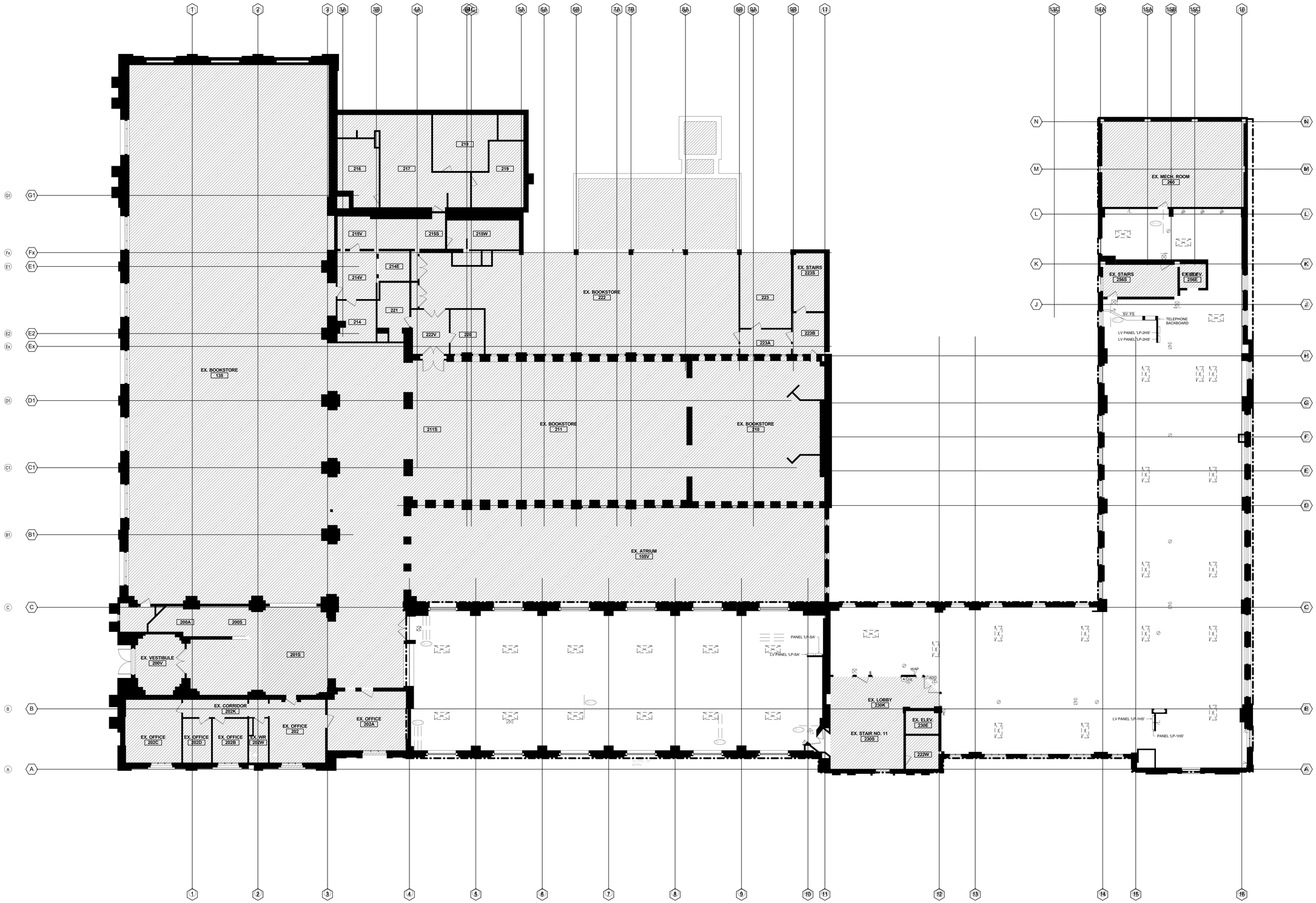
12



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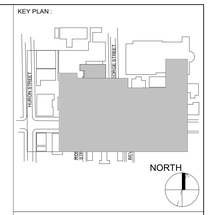

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PROJECT :

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :

LEVEL 02 - ELECTRICAL - DEMOLITION

PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 100

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

SHEET NO
E702

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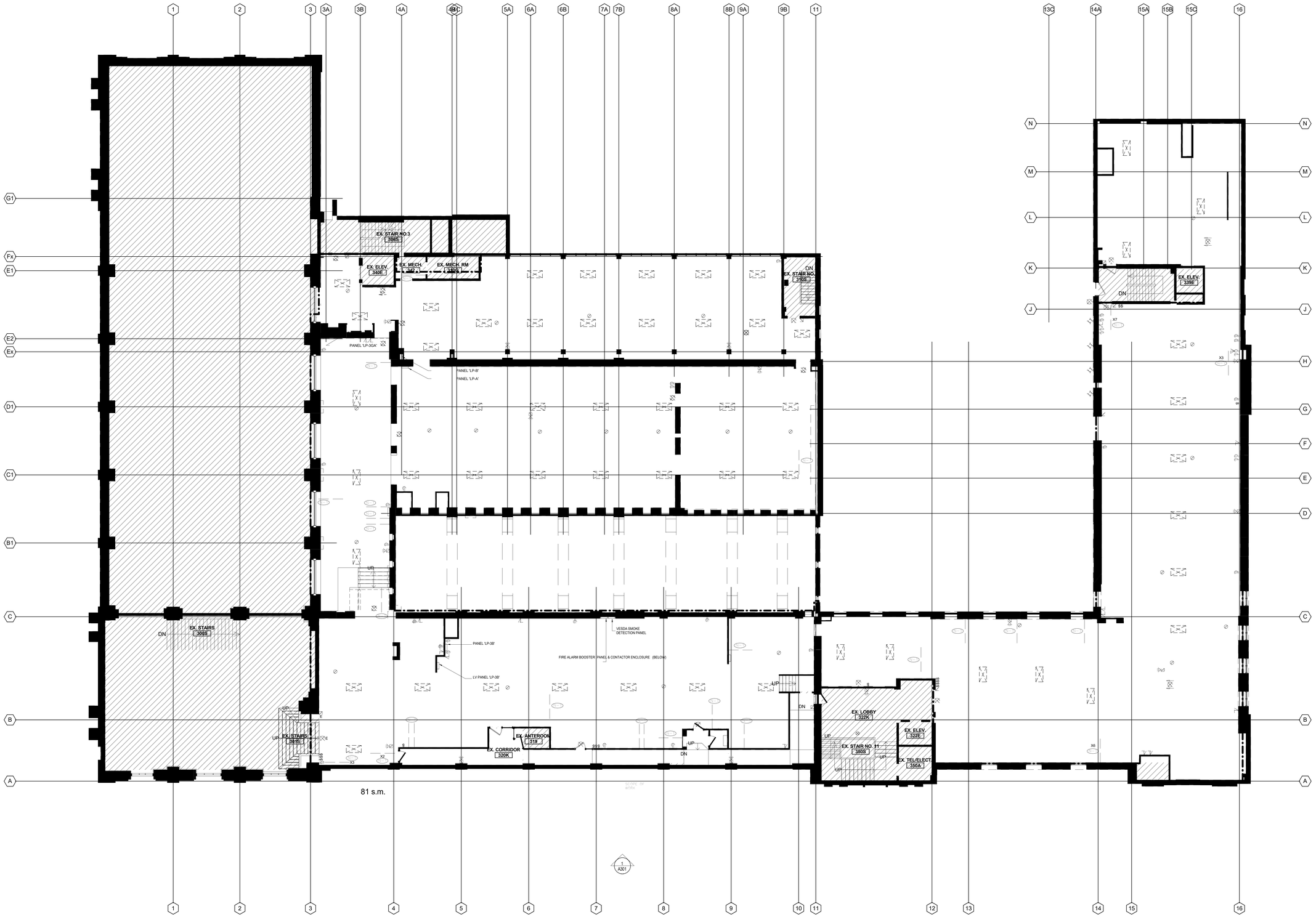
12



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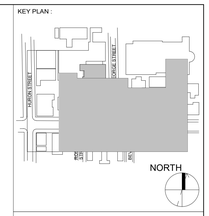

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UNIVERSITY OF TORONTO

PROJECT :

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214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :

LEVEL 03 - ELECTRICAL - DEMOLITION

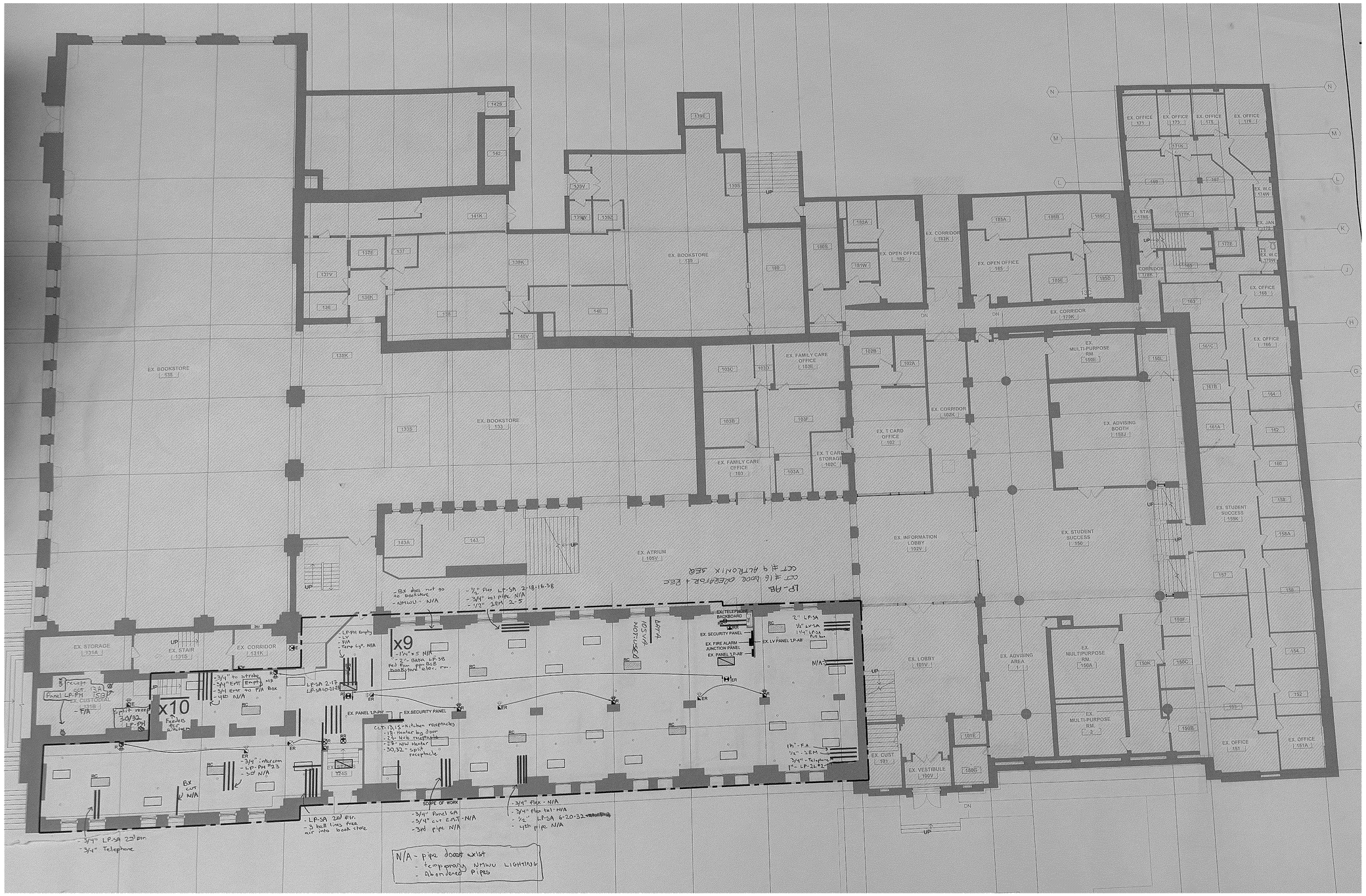
PROJECT NUMBER : **21590.003**

DRAWING SCALE : **1 : 100**

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

SHEET NO : **E703**

REV : **12**



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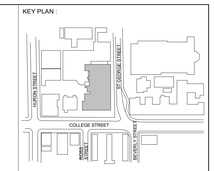

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TORONTO, ON M5T 3A1

SHEET CONTENTS :
LEVEL 01 EXISTING CONDUIT PLAN (FOR REFERENCE)

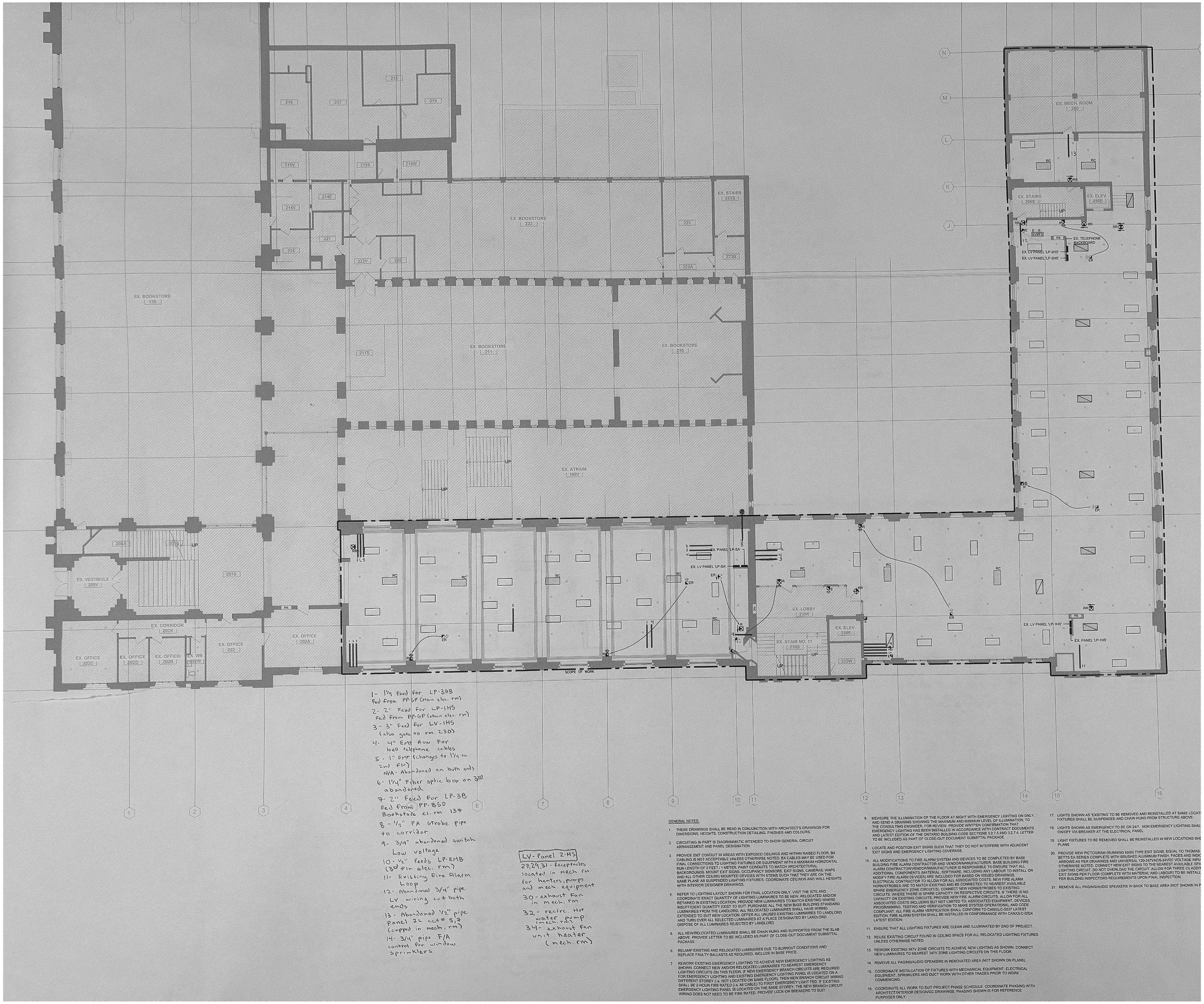
PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 300

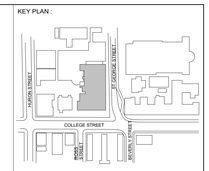
DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue Date

SHEET NO :
E705

REV :
12



KEY PLAN :



REVISION

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
12	2025-04-30	ISSUED FOR CONSTRUCTION

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SEAL :

OWNER:
UNIVERSITY OF TORONTO

PROJECT :
HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

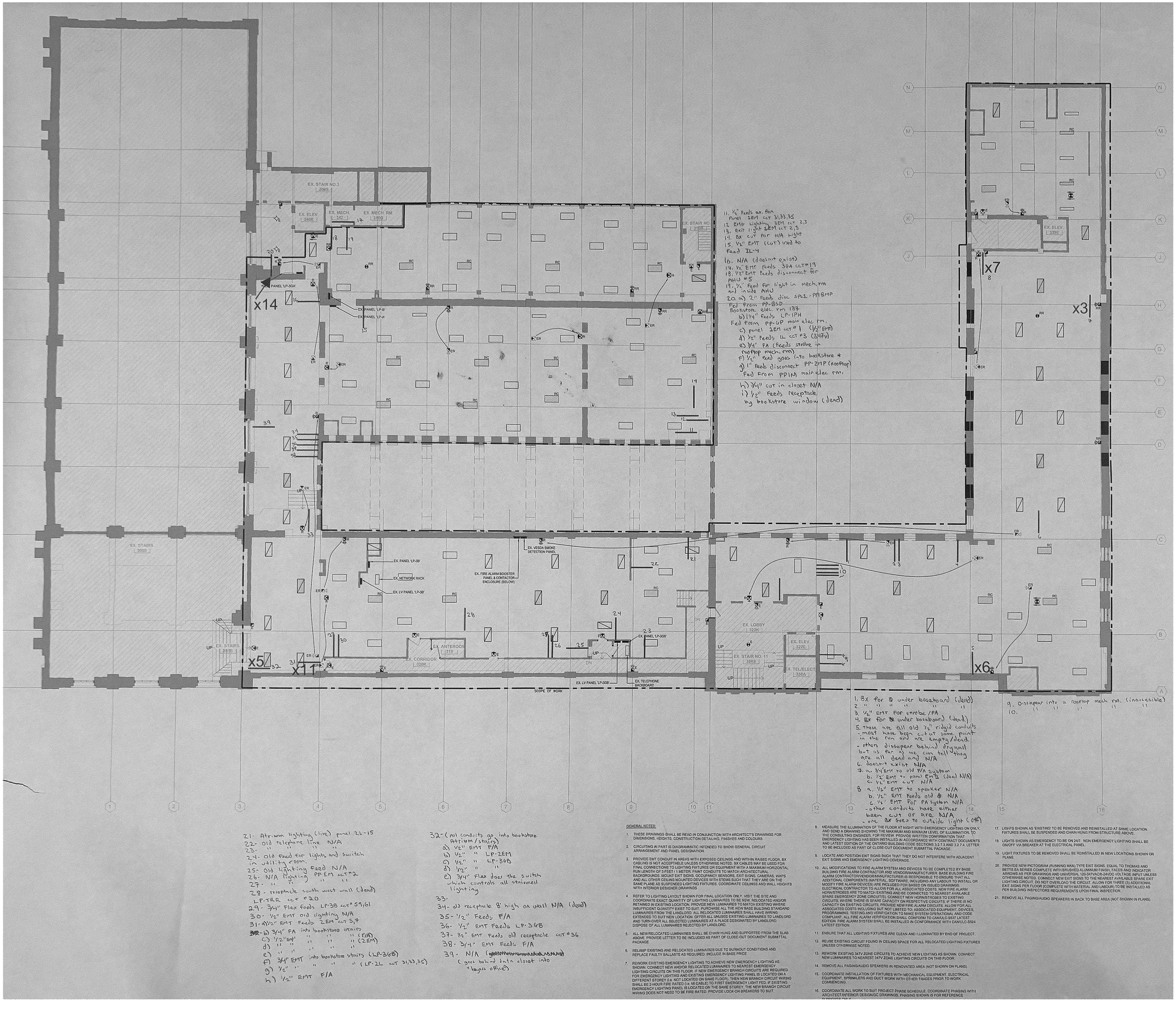
214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :
LEVEL 02 EXISTING CONDUIT PLAN (FOR REFERENCE)

PROJECT NUMBER : **21590.003**
DRAWING SCALE : **1 : 500**

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

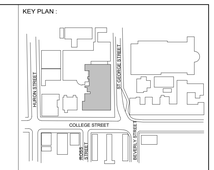
SHEET NO : **E706**
REV : **12**



GENERAL NOTES:

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILING, FINISHES AND COLOURS.
2. CIRCUITING IN PART IS DIAGRAMMATIC INTENDED TO SHOW GENERAL CIRCUIT ARRANGEMENT AND PANEL DESIGNATION
3. PROVIDE EMT CONDUIT IN AREAS WITH EXPOSED CEILINGS AND WITHIN RAISED FLOOR, BX CABLING IS NOT ACCEPTABLE UNLESS OTHERWISE NOTED. BX CABLES MAY BE USED FOR FINAL CONNECTIONS TO LIGHTING FIXTURES OR EQUIPMENT WITH A MAXIMUM HORIZONTAL RUN LENGTH OF 3 FEET / 1 METER. PAINT CONDUITS TO MATCH ARCHITECTURAL BACKGROUNDS. MOUNT EXIT SIGNS, OCCUPANCY SENSORS, EXIT SIGNS, CAMERAS, WAPS AND ALL OTHER CEILING MOUNTED DEVICES WITH STEMS SUCH THAT THEY ARE ON THE SAME PLANE AS SUSPENDED LIGHTING FIXTURES. COORDINATE CEILINGS AND WALL HEIGHTS WITH INTERIOR DESIGNER DRAWINGS
4. REFER TO LIGHTING LAYOUT SHOWN FOR FINAL LOCATION ONLY. VISIT THE SITE AND COORDINATE EXACT QUANTITY OF LIGHTING LUMINAIRES TO BE NEW, RELOCATED AND/OR RETAINED IN EXISTING LOCATION. PROVIDE NEW LUMINAIRES TO MATCH EXISTING WHERE INSUFFICIENT QUANTITY EXIST TO SUIT. PURCHASE ALL THE NEW BASE BUILDING STANDARD LUMINAIRES FROM THE LANDLORD. ALL RELOCATED LUMINAIRES SHALL HAVE WIRING EXTENDED TO SUIT NEW LOCATION. OFFER ALL UNSUED EXISTING LUMINAIRES TO LANDLORD AND TURN OVER ALL SELECTED LUMINAIRES AT A PLACE DESIGNATED BY LANDLORD. DISPOSE OF ALL LUMINAIRES REJECTED BY LANDLORD.
5. ALL NEW/RELOCATED LUMINAIRES SHALL BE CHAIN HUNG AND SUPPORTED FROM THE SLAB ABOVE. PROVIDE LETTER TO BE INCLUDED AS PART OF CLOSE-OUT DOCUMENT SUBMITTAL PADAGE.
6. RELAMP EXISTING AND RELOCATED LUMINAIRES DUE TO BURNOUT CONDITIONS AND REPLACE FAULTY BALLASTS AS REQUIRED. INCLUDE IN BASE PRICE
7. REWORK EXISTING EMERGENCY LIGHTING TO ACHIEVE NEW EMERGENCY LIGHTING AS SHOWN. CONNECT NEW AND/OR RELOCATED LUMINAIRES TO NEAREST EMERGENCY LIGHTING CIRCUITS ON THIS FLOOR. IF NEW EMERGENCY BRANCH CIRCUITS ARE REQUIRED FOR EMERGENCY LIGHTING AND EXISTING EMERGENCY LIGHTING PANEL IS LOCATED ON A DIFFERENT STOREY (I.E. NOT LOCATED ON SAME FLOOR), THEN NEW BRANCH CIRCUIT WIRING SHALL BE 2-HOUR FIRE RATED (I.E. MI CABLE) TO FIRST EMERGENCY LIGHT FED. IF EXISTING EMERGENCY LIGHTING PANEL IS LOCATED ON THE SAME STOREY, THE NEW BRANCH CIRCUIT WIRING DOES NOT NEED TO BE FIRE RATED. PROVIDE LOCK-ON BREAKERS TO SUIT.
8. MEASURE THE ILLUMINATION OF THE FLOOR AT NIGHT WITH EMERGENCY LIGHTING ON ONLY, AND SEND A DRAWING SHOWING THE MAXIMUM AND MINIMUM LEVEL OF ILLUMINATION TO THE CONSULTING ENGINEER, FOR REVIEW. PROVIDE WRITTEN CONFIRMATION THAT EMERGENCY LIGHTING HAS BEEN INSTALLED IN ACCORDANCE WITH CONTRACT DOCUMENTS AND LATEST EDITION OF THE ONTARIO BUILDING CODE SECTIONS 3.2.7.3 AND 3.2.7.4. LETTER TO BE INCLUDED AS PART OF CLOSE-OUT DOCUMENT SUBMITTAL PACKAGE.
9. LOCATE AND POSITION EXIT SIGNS SUCH THAT THEY DO NOT INTERFERE WITH ADJACENT EXIT SIGNS AND EMERGENCY LIGHTING COVERAGE.
10. ALL MODIFICATIONS TO FIRE ALARM SYSTEM AND DEVICES TO BE COMPLETED BY BASE BUILDING FIRE ALARM CONTRACTOR AND VENDOR/MANUFACTURER. BASE BUILDING FIRE ALARM CONTRACTOR/VENDOR/MANUFACTURER IS RESPONSIBLE TO ENSURE THAT ALL ADDITIONAL COMPONENTS (MATERIAL, SOFTWARE, INCLUDING ANY LABOUR TO INSTALL OR MODIFY FIRE ALARM DEVICES) ARE INCLUDED FOR BASED ON ISSUED DRAWINGS. ELECTRICAL CONTRACTOR TO ALLOW FOR ALL ASSOCIATED COSTS. NEW FIRE ALARM HORN/STROBES ARE TO MATCH EXISTING AND BE CONNECTED TO NEAREST AVAILABLE SPARE EMERGENCY ZONE CIRCUIT(S). CONNECT NEW HORN/STROBES TO EXISTING CIRCUITS, WHERE THERE IS SPARE CAPACITY ON RESPECTIVE CIRCUITS. IF THERE IS NO CAPACITY ON EXISTING CIRCUITS, PROVIDE NEW FIRE ALARM CIRCUITS. ALLOW FOR ALL ASSOCIATED COSTS INCLUDING BUT NOT LIMITED TO: ASSOCIATED EQUIPMENT, DEVICES, PROGRAMMING, TESTING AND VERIFICATION, TO MAKE SYSTEM OPERATIONAL AND CODE COMPLIANT. ALL FIRE ALARM VERIFICATION SHALL CONFORM TO CAN/ULC-S537 LATEST EDITION. FIRE ALARM SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH CAN/ULC-S524 LATEST EDITION.
11. ENSURE THAT ALL LIGHTING FIXTURES ARE CLEAN AND ILLUMINATED BY END OF PROJECT.
12. REUSE EXISTING CIRCUIT FOUND IN CEILING SPACE FOR ALL RELOCATED LIGHTING FIXTURES UNLESS OTHERWISE NOTED.
13. REWORK EXISTING 347V ZONE CIRCUITS TO ACHIEVE NEW LIGHTING AS SHOWN. CONNECT NEW LUMINAIRES TO NEAREST 347V ZONE LIGHTING CIRCUITS ON THIS FLOOR.
14. REMOVE ALL PAGING/AUDIO SPEAKERS IN RENOVATED AREA (NOT SHOWN ON PLANS).
15. COORDINATE INSTALLATION OF FIXTURES WITH MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT, SPRINKLERS AND DUCT WORK WITH OTHER TRADES PRIOR TO WORK COMMENCING.
16. COORDINATE ALL WORK TO SUIT PROJECT PHASE SCHEDULE. COORDINATE PHASING WITH ARCHITECT/INTERIOR DESIGN/CSU DRAWINGS. PHASING SHOWN IS FOR REFERENCE PURPOSES ONLY.
17. LIGHTS SHOWN AS 'EXISTING' TO BE REMOVED AND REINSTALLED AT SAME LOCATION. FIXTURES SHALL BE SUSPENDED AND CHAIN HUNG FROM STRUCTURE ABOVE.
18. LIGHTS SHOWN AS EMERGENCY TO BE ON 24/7. NON EMERGENCY LIGHTING SHALL BE ON/OFF VIA BREAKER AT THE ELECTRICAL PANEL.
19. LIGHT FIXTURES TO BE REMOVED SHALL BE REINSTALLED IN NEW LOCATIONS SHOWN ON PLANS.
20. PROVIDE NEW PICTOGRAM (RUNNING MAN) TYPE EXIT SIGNS, EQUAL TO THOMAS AND BETTS EA SERIES COMPLETE WITH BRUSHED ALUMINUM FINISH, FACES AND INDICATOR ARROWS AS PER DRAWINGS AND UNIVERSAL 120-347VAC/6-24VDC VOLTAGE INPUT UNLESS OTHERWISE NOTED. CONNECT NEW EXIT SIGNS TO THE NEAREST AVAILABLE SPARE EXIT LIGHTING CIRCUIT. DO NOT OVERLOAD THE CIRCUIT. ALLOW FOR THREE (3) ADDITIONAL EXIT SIGNS PER FLOOR (COMPLETE WITH MATERIAL AND LABOUR) TO BE INSTALLED AS PER BUILDING INSPECTORS REQUIREMENTS UPON FINAL INSPECTION.
21. REMOVE ALL PAGING/AUDIO SPEAKERS IN BACK TO BASE AREA (NOT SHOWN IN PLANS).

KEY PLAN :



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SEAL :

OWNER:
UNIVERSITY OF TORONTO

PROJECT :
HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

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TORONTO, ON M5T 3A1

SHEET CONTENTS :
LEVEL 03 EXISTING CONDUIT PLAN (FOR REFERENCE)

PROJECT NUMBER : 21590.003
DRAWING SCALE : 1 : 500
DRAWN BY : Author | CHECKED BY : Checker | DATE: Issue Date
SHEET NO : E707 | REV : 12