ELECTRICAL SPECIFICATIONS

O. LIGHTING

1. ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL ALL LIGHT FIXTURES AS SPECIFIED ON PLANS. ALTERNATE LIGHT FIXTURES SHALL NOT BE USED IN CALCULATING BASE TENDER PRICE. THE ELECTRICAL CONTRACTOR MAY SUBMIT AN ALTERNATE LIGHTING PACKAGE WITH TENDER PRICE IF THERE IS A COST SAVING OVER THE BASE SPECIFIED LIGHT FIXTURES. THE CONTRACTOR SHALL STATE THE COST SAVING FOR THE ALTERNATE FIXTURES WITH TENDER AND THE OWNER RESERVES THE RIGHT TO ACCEPT OR REJECT THE ALTERNATE FIXTURES PACKAGE COST SAVING.
2. PROVIDE ALL MOUNTING HARDWARE AND ACCESSORIES TO SUIT THE CEILING AND INSTALLATION. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND PROVIDE REQUIRED MOUNTING ACCESSORIES AS REQUIRED. ALL FIXTURES TO BE CSA OR ULC LISTED.
3. EMERGENCY LIGHTING SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 3.2.7.3 OF THE LATEST EDITION OF ONTARIO BUILDING CODE. EMERGENCY LIGHTING SHALL BE PROVIDED TO AN AVERAGE LEVEL OF ILLUMINATION NOT LESS THAN 10 LUX AT FLOOR OR TREAD LEVEL AS REQUIRED BY OBC.
4. LOCATE EACH EMERGENCY LIGHT ON SITE TO SUIT EXIT ROUTING AND LINE OF SIGHT. ELECTRICAL CONTRACTOR SHALL ARRANGE FOR TESTING OF EMERGENCY LIGHTS AND SUBMIT SEALED CERTIFICATE ALONG WITH TEST REPORT TO THE CONSULTANT BEFORE FINAL PAYMENT.
5. EACH EMERGENCY POWER BATTERY UNIT SHALL PROVIDE SUFFICIENT WATTAGE TO LIGHT ALL REMOTE EMERGENCY EXIT LIGHT HEADS WIRED TO IT FOR A MINIMUM PERIOD DESCRIBED IN SECTION 3.2.7.4 OF OBC.
6. ALL LOW VOLTAGE LIGHTING CONTROL DEVICES TO BE CSA OR ULC LISTED.

P. LIGHTING CONTROLS

1. ELECTRICAL CONTRACTOR TO PROVIDE ALL LOW VOLTAGE LIGHTING CONTROL DEVICES INCLUDING WIRING, CONDUIT, ACCESSORIES, COVER PLATES, ETC. ALL LOW VOLTAGE WIRING DETAILS TO BE CONFIRMED BY LIGHTING CONTROL MANUFACTURER.
2. WHERE CONDUIT MUST BE SURFACE MOUNTED TO EXPOSED CEILING/WALL SURFACES, PROVIDE CONDUIT OR METALLIC WIREMOLD PAINTED TO MATCH CEILING/WALL SURFACES UNLESS NOTED OTHERWISE.
3. ELECTRICAL CONTRACTOR TO SUBMIT DETAILED OCCUPANCY SENSOR, LOW VOLTAGE SWITCHING AND POWER PACK WIRING DIAGRAMS SPECIFIC TO THIS PROJECT DURING SHOP DRAWING SUBMISSION STAGE FOR REVIEW BY THE CONSULTANT.
4. ELECTRICAL CONTRACTOR TO FIELD ADJUST AIMING, SENSITIVITY AND TIME DELAY AS REQUIRED.
5. LIGHTING CONTROL DEVICES AND CONTROL SYSTEMS SHALL BE TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH DRAWINGS AND MANUFACTURES INSTALLATION INSTRUCTIONS. WHERE OCCUPANT SENSORS, TIME SWITCHES, PROGRAMMABLE SCHEDULE CONTROLS, OR PHOTOSENSORS ARE INSTALLED, AT A MINIMUM, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:

   5.1. CERTIFY THAT OCCUPANT SENSORS HAVE BEEN LOCATED AND AIMED IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS.

   5.2. OCCUPANCY SENSORS AND EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY.

      5.2.1. STATUS INDICATOR OPERATES PROPERLY
      5.2.2. CONTROLLED LIGHTS TURN OFF OR DOWN TO THE PERMITTED LEVEL WITHIN REQUIRED TIME
      5.2.3. FOR AUTO-ON OCCUPANT SENSORS, THE LIGHTS TURN ON TO THE PERMITTED LEVEL WITH THE TIME REQUIRED
      5.2.4. FOR MANUAL-ON SENSORS, THE LIGHTS TURN ON ONLY WHEN MANUALLY ACTIVATED
      5.2.5. THE LIGHTS ARE NOT INCORRECTLY TURNED ON BY MOVEMENT IN NEARBY AREAS OR BY HVAC OPERATION

   5.2. AUTOMATIC TIME SWITCHES

      5.2.1. CONFIRM THAT THE AUTOMATIC TIME-SWITCH CONTROL IS PROGRAMMED WITH APPROPRIATE WEEKDAY, WEEKEND AND HOLIDAY SCHEDULES
      5.2.2. DOCUMENT FOR OWNER AUTOMATIC TIME-SWITCH CONTROL IS PROGRAMMED WITH APPROPRIATE WEEKDAY,WEEKEND AND HOLIDAY SCHEDULES AS WELL AS ALL SETUP AND PREFERENCE PROGRAM SETTINGS.
      5.2.3. VERIFY CORRECT TIME AND DATE ARE PROPERLY SET IN THE TIME SWITCH
      5.2.4. VERIFY BATTERY BACKUP IS INSTALLED AND ENERGIZED
      5.2.5. VERIFY THAT OVERRIDE TIME LIMIT SET TO NO MORE THAN TWO (2) HOURS
      5.2.6. SIMULATE OCCUPIED CONDITION. VERIFY THE FOLLOWING
         5.2.6.1. ALL LIGHTS TURN ON AND OFF BY THEIR RESPECTIVE CONTROL SWITCH
         5.2.6.2. THE SWITCH ONLY OPERATES LIGHTING IN THE ENCLOSED SPACE IN WHICH THE SWITCH IS LOCATED.

   5.3. THE INDIVIDUALS RESPONSIBLE FOR THE FUNCTIONAL TESTING SHALL NOT BE DIRECTLY INVOLVED IN EITHER THE DESIGN OR CONSTRUCTION OF THE PROJECT AND SHALL PROVIDE DOCUMENTATION CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET OR EXCEED ALL DOCUMENTED PERFORMANCE CRITERIA.

Q. NETWORK AND SYSTEMS

1. THE SCHOOL BOARD SHALL CARRY THE PRE-APPROVED NETWORK AND IT CONTRACTOR. THE NETWORK CONTRACTOR SHALL BE RESPONSIBLE FOR PULLING ALL COMMUNICATION WIRING, MAKING ALL NECESSARY TERMINATIONS AT SWITCHES AND OUTLETS, LABELING AND TESTING.
2. ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL COMPLETE RACEWAY (CONDUIT) SYSTEM c/w PULL STRING AND NETWORK/DATA OUTLET BOXES. COORDINATE ALL WORK WITH NETWORK CONTRACTOR AS REQUIRED TO COMPLETE THE INSTALLATION OF NETWORK EQUIPMENT.
3. ALL VOICE AND DATA CABLING TO BE INSTALLED IN 3/4" EMT CONDUIT FROM EACH VOICE/DATA OUTLET TO ACCESSIBLE CEILING SPACE. ALL DATA CABLING TO BE INSTALLED IN EXPOSED CEILING SPACES TO BE INSTALLED IN EMT CONDUIT AND PULL BOXES AND SIZED ACCORDING TO NUMBER OF DATA CABLES LOCATED IN THAT SPACE. WHERE VOICE AND DATA CABLING IS INSTALLED ABOVE DROPPED ACCESSIBLE CEILING SPACES THE ELECTRICAL CONTRACTOR IS TO PROVIDE 'J HOOKS' AND OR BASKET CABLE TRAY AS REQUIRED TO SUPPORT ALL VOICE AND DATA CABLING. UNDER NO CIRCUMSTANCES SHOULD VOICE OR DATA CABLING BE INSTALLED LOOSE OR ON TOP OF T-BAR CEILINGS.
4. VOICE AND DATA CABLING WILL BE A 'CATEGORY 6' COMPLIANT UTP CABLING SYSTEM COMPRISING OF: FT6 RATED CAT6 UTP CABLES, RJ45 (WHITE) DVO SURFACE MOUNT BLOCKS C/W COLORED RJ45 JACKS, 10' PATCH CABLES FOR CONNECTION FROM NETWORK PATCH PANEL TO OWNER SUPPLIED NETWORK EQUIPMENT AND 10' FOR WORKSTATION END CONNECTION TO PC AND CABLE MANAGEMENT FOR PATCH CORDS.
5. VOICE CABLES (BOTH ANALOG AND VOIP) TO BE WHITE COLOR. DATA CABLES TO BE BLUE COLOR.
6. MAXIMUM CABLE LENGTH (JACK TO PATCH PANEL) IS 90 METERS.
7. EACH RJ45 OUTLET SHALL BE LABELED. PROVIDE BLACK LETTER ON WHITE BACKGROUND P-TOUCH TYPE LABELS.
8. ALL CABLE RUNS TO BE UNIQUELY NUMBERED AT BOTH ENDS AS WELL AS THE COVER OF EACH BLOCK AND OUTLET WITH P-TOUCH LABELS.
9. ALL DATA CABLING WITHIN CONCEALED CEILING TO BE SECURED TO STRUCTURE WITH 'J' HOOKS AND BUNDLED WITH ZIP TIES AS REQUIRED.

R. MECHANICAL EQUIPMENT

1. PROVIDE LINE VOLTAGE CONNECTIONS AS REQUIRED FOR ALL MECHANICAL EQUIPMENT. CONFIRM FINAL CONNECTIONS, LOADS AND LOCATIONS PRIOR TO INSTALLATION. NO EXTRAS WILL BE ALLOWED FOR ELECTRICAL CONTRACTOR NOT THOROUGHLY REVIEWING ALL MECHANICAL DRAWINGS DURING TENDER AND SHOP DRAWINGS DURING CONSTRUCTION.
2. FUSES PROTECTING MOTOR FEEDERS TO BE TIME-DELAY TYPE UNLESS NOTED OTHERWISE.
3. PROVIDE ALL NECESSARY LINE VOLTAGE CONTROL WIRING FOR MECHANICAL CONTROLS CONTRACTOR AS REQUIRED. PROVIDE CONTROL WIRING AS SHOWN ON THE ELECTRICAL AND MECHANICAL DRAWINGS.
4. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL NECESSARY COMBINATION STARTERS FOR MECHANICAL EQUIPMENT UNLESS NOTED OTHERWISE ON MECHANICAL DRAWINGS.

S. PUBLIC ADDRESS (PA) SYSTEM

1. THE GENERAL CONTRACTOR TO CARRY CASH ALLOWANCE FOR HIRING A PUBLIC ADDRESS (PA) SYSTEM CONTRACTOR. THE PUBLIC ADDRESS SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR PA WIRING, MAKING ALL NECESSARY TERMINATIONS AND TESTING.
2. ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL COMPLETE RACEWAY (CONDUIT) SYSTEM c/w PULL STRING AND FIELD DEVICE BACK BOXES FOR PUBLIC ADDRESS SYSTEM. COORDINATE ALL WORK WITH PUBLIC ADDRESS SYSTEM CONTRACTOR AS REQUIRED TO COMPLETE THE INSTALLATION OF THE SYSTEM.

T. SECURITY SYSTEM

1. THE SCHOOL BOARD SHALL CARRY THE PRE-APPROVED SECURITY CONTRACTOR. THE SECURITY CONTRACTOR SHALL BE RESPONSIBLE FOR PULLING ALL SECURITY WIRING, MAKING ALL NECESSARY TERMINATIONS AND TESTING.
2. ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL COMPLETE RACEWAY (CONDUIT) SYSTEM c/w PULL STRING AND FIELD DEVICE BACK BOXES FOR SECURITY SYSTEM. COORDINATE ALL WORK WITH SECURITY CONTRACTOR AS REQUIRED TO COMPLETE THE INSTALLATION OF THE SYSTEM.

U. FIELD QUALITY CONTROL

1. TEST ALL WORK. REMEDY AND MAKE GOOD ANY DEFECTS DISCLOSED BY SUCH TESTS AND TEST THE WORK AGAIN. TEST IN ACCORDANCE WITH APPROVED PROCEDURE.
2. TEST EACH POWER AND CONTROL CONDUCTOR FOR CONTINUITY AND GROUNDS. IMMEDIATELY FOLLOWING THIS TEST, CONNECT CONDUCTOR TO ITS PERMANENT TERMINAL.
3. INSPECT ALL CONNECTIONS, PROTECTIVE AND SAFETY DEVICES PRIOR TO ENERGIZING ANY EQUIPMENT AND MAKE NECESSARY ADJUSTMENTS, WHERE REQUIRED, TO ASSURE A PROPER AND SAFE OPERATION.
4. ALL EQUIPMENT SHALL BE WIPED CLEAN AND VACUUMED.

V. EXECUTION

RACEWAYS:

1. INSTALL CONDUIT AS A COMPLETE SYSTEM WITHOUT WIRES. CONTINUE CONDUIT FROM FITTING TO FITTING AND FASTEN SECURELY TO PLACE. CLEAN AND SEAL CONDUIT SYSTEM UNTIL WIRING IS INSTALLED.
2. INSTALL CONDUIT PARALLEL OR AT RIGHT ANGLES TO PROPERTY LINES, CURBS, ETC., WHERE PRACTICAL.
3. CUT ALL CONDUITS SQUARE AND REAM TO REMOVE SHARP EDGES AND BURRS. FIT CONDUITS CLOSELY AND TIGHTLY IN COUPLINGS.
4. INSTALL A PULL WIRE IN EACH EMPTY CONDUIT PROVIDED FOR FUTURE USE BY OTHERS.
5. CAP ALL CONDUITS WITH METAL, CARDBOARD OR PLASTIC, DURING CONSTRUCTION.

WIRES AND CABLES:

1. DO NOT PULL THE WIRES BEFORE THE ENTIRE CONDUIT SYSTEM IS COMPLETED AND CLEANED.
2. ENSURE THAT WIRES INSTALLED IN THE INTERIOR OF EQUIPMENT ARE NEATLY LACED WITH PLASTIC TIES AND GRASPED AND SECURED IN PLACE.
3. RUN POWER CONDUCTORS FULL LENGTH WITHOUT SPLICES OR TAPS FROM ORIGIN TO DESTINATION, UNLESS SPECIFICALLY CALLED FOR ON THE DRAWINGS. NO CABLE SPLICING ALLOWED IN UNDERGROUND INSTALLATION.
4. IDENTIFY EACH CABLE AND WIRE AT BOTH ENDS WITH PROPER CABLE AND WIRE NUMBER AS SHOWN ON THE DRAWINGS AND CABLE SCHEDULES IN ALL CONTROL PANELS, CONTROL DEVICES, DISTRIBUTION PANELS, PULL AND JUNCTION BOXES, ETC., USING APPROVED CABLE AND WIRE MARKERS.
5. FOLLOW NORMAL RECOMMENDED PRACTICES WHEN INSTALLING CABLES IN CABLE TRAYS TO AVOID DAMAGE TO CABLE SHEATHS, CONDUCTORS OR INSULATION. ENSURE THAT CABLES ARE NOT DAMAGED BY EXCESSIVE TENSION WHEN PULLING. REPLACE ANY DAMAGED AND REJECTED CABLE WITHOUT COST TO THE OWNER.
6. USE SUITABLE NON-HARDENING CABLE LUBRICANTS, WHERE REQUIRED, WHICH DO NOT CONTAIN ANY MATERIALS SUCH AS OIL, GREASE OR OTHER COMPOUNDS HARMFUL TO RUBBER, PVC OR POLYETHYLENE.
7. MAKE SPLICES AND TAPS FOR CONTROL CONDUCTORS AT APPROVED TERMINAL BLOCKS IN JUNCTION BOXES.

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ALL CONSTRUCTION TO MEET ONTARIO SUILDING CODE REQUIREMENTS.

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BUILDING DEPARTMENT

Key Plan N.T.S.

Project North / True North

No.	Revisions	Date
A	Issued For Permit	Jan 21,2021

No.	Issue	Date

General Contractor shall check and verify all dimensions and report all errors and omissions to the Architect. Do not scale the drawings. Drawings shall not be used for construction purposes until issued by the Architect for construction.

LICENSED PROFESSIONAL ENGINEER
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Drawing Title:
SPECIFICATIONS

Scale:	NTS	Date:	MAY 2020
Drawn by:	PI	Checked by:	JS
Job No.	20009	Drawing No.	E1.2

GENERAL LIGHTING

SYMBOL	DESCRIPTION
LX	2'X4' (610mmX1220mm) LIGHT FIXTURE. 'X' DENOTES TYPE
LX	1'X4' (305mmX1220mm) LIGHT FIXTURE. 'X' DENOTES TYPE
LX	CEILING MOUNTED STRIP LIGHT FIXTURE. 'X' DENOTES TYPE
LX	WALL MOUNTED STRIP LIGHT FIXTURE. 'X' DENOTES TYPE

GENERAL NOTE: 1. REFER TO GENERAL LIGHTING SCHEDULE FOR DETAILED SPECIFICATIONS.

EMERGENCY LIGHTING

SYMBOL	DESCRIPTION
CUX	EMERGENCY BATTERY UNIT AND RUNNING MAN OR EXIT SIGN COMBO WITH TWO DC HEADS. 'X' DENOTES TYPE
BUX	EMERGENCY BATTERY UNIT WITH TWO DC HEADS. 'X' DENOTES TYPE
RX YUX.C	WALL MOUNTED EMERGENCY LIGHTING SINGLE REMOTE DC HEAD. 'X' DENOTES TYPE
RX YUX.C	CEILING MOUNTED EMERGENCY LIGHTING SINGLE REMOTE DC HEAD. 'X' DENOTES TYPE
RX YUX.C	WALL MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE DC HEADS. 'X' DENOTES TYPE
RX YUX.C	CEILING MOUNTED EMERGENCY LIGHTING DOUBLE REMOTE DC HEADS. 'X' DENOTES TYPE
EMX YUX.C	EMERGENCY CEILING MOUNTED RUNNING MAN OR EXIT SIGN. ARROW DENOTES DIRECTION OF EXIT. HATCHED AREA DENOTES ILLUMINATED FACE(ES). 'X' DENOTES TYPE
EMX YUX.C	EMERGENCY WALL MOUNTED RUNNING MAN OR EXIT SIGN. ARROW DENOTES DIRECTION OF EXIT. HATCHED AREA DENOTES ILLUMINATED FACE(ES). 'X' DENOTES TYPE
YUX.C	'Y' INDICATES BATTERY OR COMBO UNIT. 'X' INDICATES TYPE OF BATTERY OR COMBO UNIT. '.C' INDICATES DEDICATED BRANCH WIRING CIRCUIT FROM BATTERY OR COMBO UNIT. WIRE TO BE SIZED TO ENSURE NO MORE THAN 5% VOLTAGE DROP PER BRANCH

GENERAL NOTE: 1. REFER TO EMERGENCY LIGHTING SCHEDULE FOR DETAILED SPECIFICATION.

CONTROL DEVICE

SYMBOL	DESCRIPTION
$X	120V OR 347V SINGLE GANG, SINGLE POLE SWITCH, UNLESS NOTED WITH CONTROL DEVICE TYPE DESIGNATION LETTER. 'X' DENOTES CONTROL DEVICE TYPE
X$X	120V OR 347V DOUBLE GANG, TWO SINGLE SWITCHES, UNLESS NOTED WITH CONTROL DEVICE TYPE DESIGNATION LETTER. 'X' DENOTES CONTROL DEVICE TYPE
OX	CEILING MOUNTED VACANCY/OCCUPANCY SENSOR. 'X' DENOTES CONTROL DEVICE TYPE
PPX	POWER PACK. 'X' DENOTES CONTROL DEVICE TYPE
T	LINE VOLTAGE THERMOSTAT
	POWER DOOR OPERATOR PUSH TO OPEN BUTTON
L	POWER DOOR OPERATOR PUSH TO LOCK BUTTON

GENERAL NOTE: 1. REFER TO CONTROL DEVICE SCHEDULE FOR DETAILED SPECIFICATION.

BARRIER FREE EMERGENCY CALL SYSTEM

SYMBOL	DESCRIPTION
E	EMERGENCY CALL PUSH BUTTON
A	LOCAL LED ANNUNCIATOR AND SIREN COMBO
S	LOCAL DOME LIGHT AND SIREN STROBE COMBO

GENERAL NOTE: 1. REFER TO "UNIVERSAL POWER DOOR OPERATOR/EMERGENCY CALL SYSTEM" IN ELECTRICAL SPECIFICATION FOR MORE DETAILS.

POWER AND SYSTEMS

SYMBOL	DESCRIPTION
	120VAC, 15 AMP DUPLEX RECEPTACLE
	120VAC, 15 AMP DUPLEX GROUND FAULT CIRCUIT INTERRUPT RECEPTACLE
	120VAC, 20 AMP T-SLOT DUPLEX RECEPTACLE
	120VAC, 20 AMP T-SLOT DUPLEX GROUND FAULT CIRCUIT INTERRUPT RECEPTACLE
	240VAC, 30 AMP 14-30R DRYER RECEPTACLE
	HARD WIRED POWER CONNECTION RATED PER EQUIPMENT SPECIFICATION
S	HARD WIRED POWER CONNECTION FOR HARDWIRED TOUCHLESS FAUCET
	SURFACE MOUNTED ELECTRICAL PANEL BOARD
	RECESSED ELECTRICAL PANEL BOARD
	FAN OR MOTOR
	NON-FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	MAGNETIC MOTOR STARTER. 'X' DENOTES TYPE
P	WALL MOUNTED PROGRAM BELL
VFD	VARIABLE FREQUENCY DRIVE
JB	JUNCTION BOX
PB	PULL BOX
X	ELECTRICAL POWER OR SYSTEMS DEVICE OR BOX. 'X' DENOTES TYPE
	HDMI OUTLET
XD	DATA OUTLET. 'X' DENOTES NUMBER OF DATA OUTLET(S)
XV	TELEPHONE OUTLET. 'X' DENOTES NUMBER OF TELEPHONE CABLE(S)
XD,XV	DATA/TELEPHONE OUTLET. 'XD' DENOTES NUMBER OF DATA CABLE(S). 'XV' DENOTES NUMBER OF TELEPHONE CABLE(S)
XD	CEILING RECESSED DATA OUTLET. 'X' DENOTES NUMBER OF DATA CABLE(S)
WA	WIRELESS ACCESS POINT
P	CEILING MOUNTED PUBLIC ADDRESS SPEAKER
P	WALL MOUNTED PUBLIC ADDRESS SPEAKER

GENERAL NOTE: 1. REFER TO POWER AND SYSTEMS SCHEDULE FOR DETAILED SPECIFICATION.

FIRE ALARM AND CARBON MONOXIDE SYSTEMS

SYMBOL	DESCRIPTION
	FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR
	FIRE ALARM FIXED HEAT DETECTOR
F	FIRE ALARM PULL STATION
F	WALL MOUNTED FIRE ALARM BELL
F	WALL MOUNTED FIRE ALARM STROBE
FACP	SURFACE MOUNTED FIRE ALARM CONTROL PANEL

GENERAL NOTE: 1. REFER TO "FIRE ALARM SYSTEM RENOVATIONS" IN ELECTRICAL SPECIFICATIONS FOR MORE DETAILS.

SECURITY SYSTEMS

SYMBOL	DESCRIPTION
CX	CEILING MOUNTED CAMERA. 'X' DENOTES TYPE
MS	CEILING MOUNTED SECURITY MOTION SENSOR

GENERAL NOTE: 1. REFER TO SECURITY SYSTEMS SCHEDULE FOR DETAILED SPECIFICATION.

ABBREVIATIONS

AFF	DENOTES ABOVE FINISHED FLOOR
AFG	DENOTES ABOVE FINISHED GRADE
CH	DENOTES COUNTER HEIGHT
c/w	DENOTES COMPLETE WITH
DS	DENOTES DISCONNECT SWITCH
ED	DENOTES EXISTING DEVICE TO BE DEMOLISHED INCLUDING WIRING/CONDUIT(S) STRIPPED BACK TO SOURCE
ER	DENOTES EXISTING DEVICE TO BE RELOCATED
EX	DENOTES EXISTING DEVICE TO REMAIN
GFCI	DENOTES GROUND FAULT CIRCUIT INTERRUPTER
HL	DENOTES DEVICE MOUNTED AT HIGH LEVEL NEAR CEILING
H/O/A	DENOTES HAND/OFF/AUTO
MF	DENOTES DEVICE MOUNTED AT THE FACE OF MILLWORK
NTS	DENOTES NOT TO SCALE
REL	DENOTES EXISTING DEVICE AT RELOCATED LOCATION
TR	DENOTES TAMPER RESISTANT
TYP	DENOTES TYPICAL
WP	DENOTES WEATHERPROOF

LINE TYPES

LINE TYPE	DESCRIPTION
----------	DENOTES LINE VOLTAGE WIRE
—·—·—·—	DENOTES 0-10V DIMMING WIRE
— — — —	DENOTES LOW VOLTAGE WIRE
—·—·—·—	DENOTES LINE VOLTAGE AND 0-10V DIMMING WIRE
----------	DENOTES DEVICE TO BE DEMOLISHED OR RELOCATED
————	DENOTES NEW OR RELOCATED DEVICE
————	DENOTES EXISTING DEVICE TO REMAIN

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ALL CONSTRUCTION TO MEET ONTARIO BUILDING CODE REQUIREMENTS

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Key Plan N.T.S.

N

Project North

N

True North

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Drawing Title:
SYMBOLS, LINE TYPES AND ABBREVIATIONS

Scale:	NTS	Date:	MAY 2020
Drawn by:	PI	Checked by:	JS
Job No.	20009	Drawing No.	E1.3

GENERAL LIGHTING SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	VOLTAGE (V)	WATTS (W)	LUMENS	0-10V DIMMING	COLOUR TEMP(K)	CRI	MOUNTING	COMMENTS
L1			9"x4' (229mm x 1220mm) WRAP AROUND LED LIGHT FIXTURE	120						SURFACE	EXISTING FIXTURE
L2			4' (1220mm) LONG LIGHT FIXTURE c/w TWO (2) T8 FLUORESCENT LAMPS	120						SUSPENDED	EXISTING FIXTURE
L3			4' (1220mm) LONG LIGHT FIXTURE c/w ONE (1) T8 FLUORESCENT LAMP	120						SURFACE	EXISTING FIXTURE
L4			1'x4' (305mm X 1220mm) FIXTURE c/w LENS AND TWO (2) T8 FLUORESCENT LAMPS	120						RECESSED	EXISTING FIXTURE
L5			1'x4' (305mm x 1220mm) WRAP AROUND FIXTURE c/w TWO (2) T8 FLUORESCENT LAMPS	120						SURFACE	EXISTING FIXTURE
L6			4' (1220mm) LONG LIGHT FIXTURE c/w LENS AND ONE (1) T8 FLUORESCENT LAMP	120						SURFACE	EXISTING FIXTURE
L7	SIGNIFY	1FGG30L840-4-DS-UNV-DIM	1'x4' (305mm x 1220mm) LED TROFFER	120	25	3000	YES	4000	80	RECESSED	
L8	SIGNIFY	1FGG41B840-4-DS-UNV-DIM	1'x4' (305mm x 1220mm) LED TROFFER	120	34	4100	YES	4000	80	RECESSED	
L9	LITELINE	SLMPRO6-40K-C-WH	6" DIAMETER, ROUND, LOW PROFILE, LED DOWNLIGHT WITH WHITE TRIM FINISH	120	16	1400	YES	4000	80	RECESSED	
L10	SIGNIFY	2FGG43L840-4-D-UNV-DIM	2'x4' (610mm x 1220mm) LED TROFFER	120	36	4300	YES	4000	80	RECESSED	
L11			2'x4' (610mm x 1220mm) LIGHT FIXTURE	120						RECESSED	EXISTING FIXTURE
L12			EXTERIOR WALL SCONE c/w HPS LAMP	120						WALL	EXISTING FIXTURE
L13			EXTERIOR CANOPY LIGHT c/w HPS LAMP	120						SURFACE	EXISTING FIXTURE
L14	SIGNIFY	101L16L530NW-G14UNVBK	EXTERIOR LED WALL SCONE	120	28	2747	NO	4000	70	WALL	

EMERGENCY LIGHTING SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	VOLTAGE AC (VAC)	VOLTAGE DC (VDC)	LAMP BASE	LAMP TYPE	LAMP WATTS	COMMENTS
BU1			BATTERY UNIT c/w TWO DC HALOGEN HEADS	120					EXISTING BATTERY UNIT
BU2	LUMACELL	RG24S7202LD14	720W BATTERY UNIT c/w TWO LED HEADS	120	24	LED	MR16	2x6W	EXISTING BATTERY UNIT
BU3	LUMACELL	RGDIV20NLD2-VR	BATTERY UNIT WITH TWO DC HEADS, THERMOPLASTIC COVER, AND VANDAL RESISTANT SCREWS	120	6	LED	MR16	2x5W	
BU4	LUMACELL	RG12C442LD10-ZD	BATTERY UNIT WITH TWO DC HEADS	120	12	LED	MR16	2x6W	
CU1			BATTERY UNIT COMBO c/w TWO DC HEADS AND SINGLE ILLUMINATED EXIT SIGN	120					EXISTING COMBO UNIT
CU2	LUMACELL	LSC282LD2	BATTERY UNIT COMBO c/w TWO LED DC HEADS AND SINGLE ILLUMINATED RUNNING MAN SIGN	120	6	LED	MR16	2x5W	
EM1			REMOTE SINGLE FACE ILLUMINATED RUNNING MAN SIGN	120					EXISTING RUNNING MAN SIGN
EM2	LUMACELL	LS1W	REMOTE SINGLE FACE ILLUMINATED RUNNING MAN SIGN	120	24	LED			REFER TO PLAN DRAWING FOR PICTOGRAM REQUIREMENT
EM3	LUMACELL	LS2W	REMOTE DOUBLE FACES ILLUMINATED RUNNING MAN SIGN	120	24	LED			REFER TO PLAN DRAWING FOR PICTOGRAM REQUIREMENT
R1	LUMACELL	DR2130WHMR16LD14	REMOTE DOUBLE LED DC HEADS		24	LED	MR16	2x6W	EXISTING REMOTE DC HEADS
R2	LUMACELL	DR2130WHMR16LD14	REMOTE DOUBLE LED DC HEADS		24	LED	MR16	2x6W	

CONTROL DEVICE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	VOLTAGE AC (V)	VOLTAGE DC (VDC)	NO. OF RELAYS	MOUNTING	COMMENTS
K			TAMPER RESISTANT SWITCH	120				EXISTING SWITCH
PC			PRIVACY CALL SWITCH FOR PA SPEAKER					EXISTING SWITCH
LV	LEGRAND	DCLV2	LOW VOLTAGE ON/OFF/0-10 DIMMING SWITCH		24	1	WALL	ALL LIGHT FIXTURES TO BE WIRED TO 0-10V CONNECTED TO THIS SWITCH
VD	LEGRAND	PW-311	PASSIVE INFRARED ON/OFF/0-10V DIMMING WALL SWITCH OCCUPANCY SENSOR	120		1	WALL	ALL LIGHT FIXTURES TO BE WIRED TO 0-10V CONNECTED TO THIS SENSOR
O1	LEGRAND	CI-305-1	LOW VOLTAGE PASSIVE INFRARED CEILING SENSOR WITH HIGH DENSITY LENS		24	1	CEILING	
O2	LEGRAND	PW-301	PASSIVE INFRARED MANUAL ON/AUTO OFF WALL SWITCH OCCUPANCY SENSOR	120		1	WALL	
O3	LEGRAND	PW-302	PASSIVE INFRARED MANUAL ON/AUTO OFF DUAL RELAYS WALL SWITCH OCCUPANCY SENSOR	120		2	WALL	ONE BUTTON FOR LIGHTING AND ONE BUTTON FOR EXHAUST FAN
PP1	LEGRAND	BZ-250	AUTO ON/MANUAL ON POWER PACK	120	24	1		

POWER AND SYSTEMS SCHEDULE

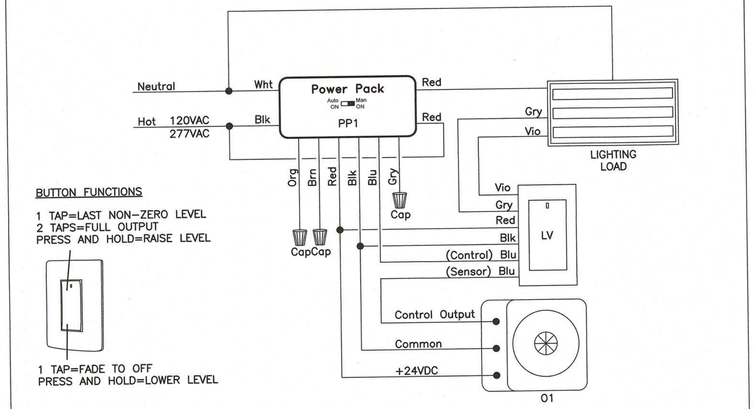
TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	VOLTAGE (V)	AMPS (A)	WATTS (W)	PHASE	COMMENTS
HD1	WORLD DRYER	SMARTdri K-973A2	SURFACE MOUNTED AUTOMATIC BRUSHED STAINLESS STEEL HAND DRYER	120		1200	1	

SECURITY SYSTEMS SCHEDULE

TYPE	DESCRIPTION	COMMENTS
C1	CEILING MOUNTED 360 DEGREE DOME CAMERA	EXISTING DEVICE
S1	EMERGENCY STROBE LIGHT	EXISTING DEVICE

OCCUPANCY SENSOR TIME SETTING

ROOM DESCRIPTION	TIME SETTING (MINUTES)	SWITCHING CONTROL
OFFICES	10	MANUAL ON/AUTO OFF
CORRIDOR / OPEN OFFICES	20	AUTO ON/AUTO OFF
ELECTRICAL ROOM	5	MANUAL ON/AUTO OFF
WASHROOM	10	MANUAL ON/AUTO OFF



BUTTON FUNCTIONS

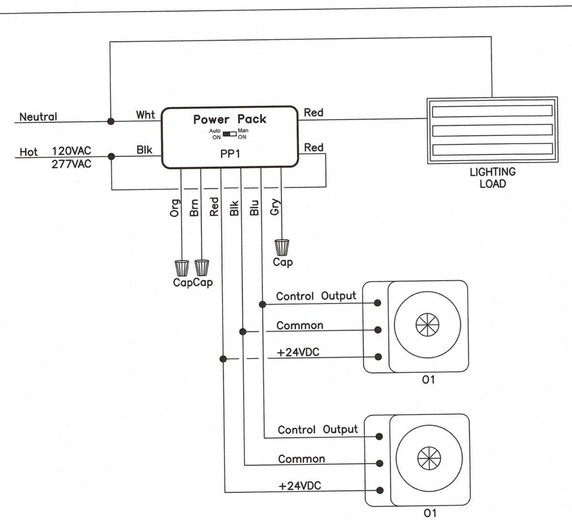
1 TAP=LAST NON-ZERO LEVEL
2 TAPS=FULL OUTPUT
PRESS AND HOLD=RAISE LEVEL

1 TAP=FADE TO OFF
PRESS AND HOLD=LOWER LEVEL

NOTE:

1. QUANTITY OF OCCUPANCY SENSOR, LIGHTING FIXTURE, POWER PACK AND LIGHT SWITCH AS SHOWN ON PLAN DRAWINGS.

TYPICAL WIRING DIAGRAM FOR LOW VOLTAGE ON/OFF SWITCHING WITH 0-10V DIMMING



NOTE:

1. QUANTITY OF OCCUPANCY SENSOR, LIGHTING FIXTURE, AND POWER PACK AS SHOWN ON PLAN DRAWINGS.

TYPICAL WIRING DIAGRAM FOR AUTO ON WITH NO LOCAL SWITCHING

Client
Halton District School Board
2050 Guelph Line
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Project North | True North

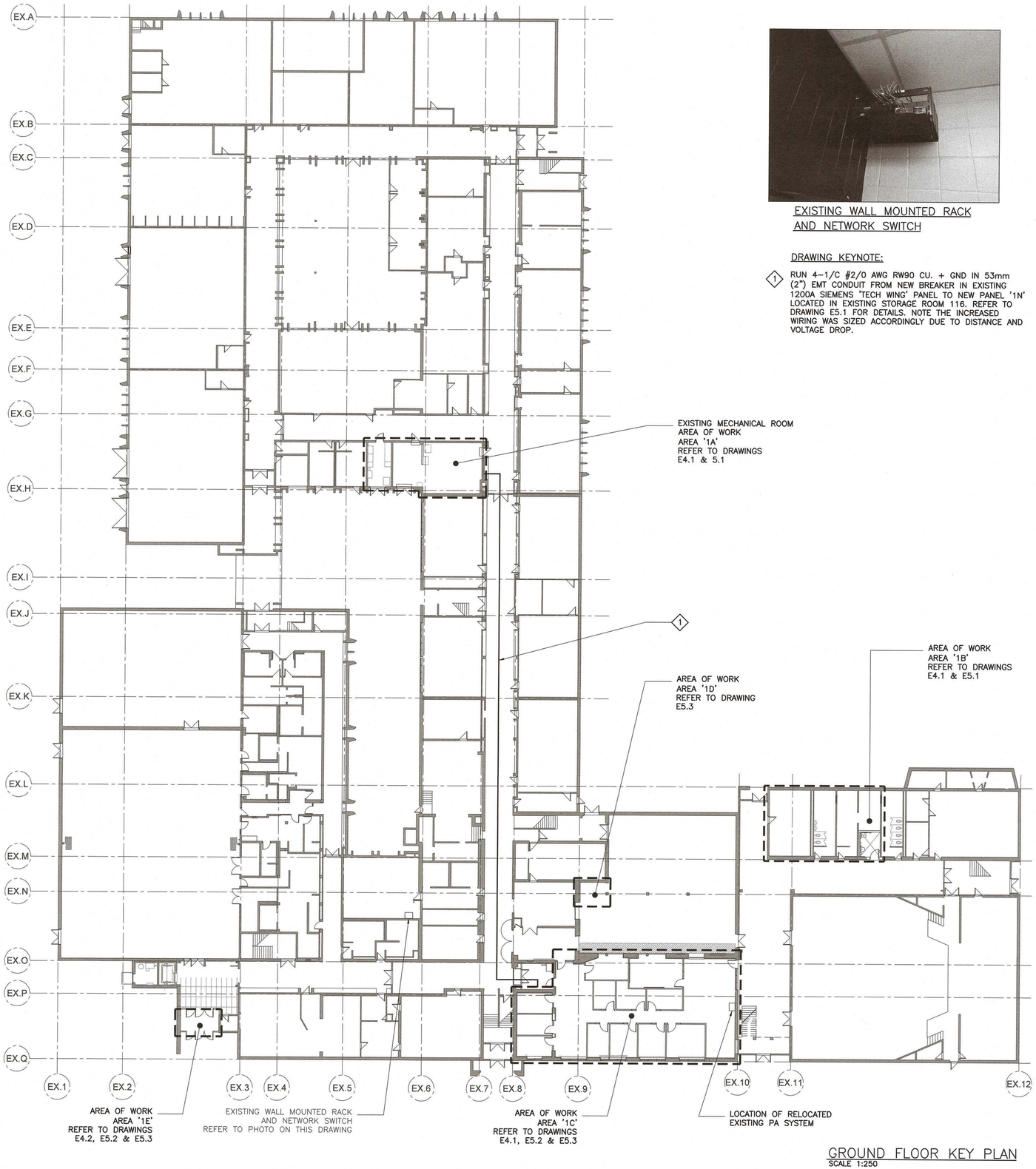
No.	Revisions	Date
A	Issued For Permit	Jan 21,2021
No.	Issue	Date

General Contractor shall check and verify all dimensions and report all errors and omissions to the Architect. Do not scale the drawings. Drawings shall not be used for construction purposes until issued by the Architect for construction.

LICENCED PROFESSIONAL ENGINEER
C. KURUPPU
100053024
01.21.21
PROVINCE OF ONTARIO

Drawing Title:
SCHEDULES AND WIRING DIAGRAMS

Scale:	NTS	Date:	MAY 2020
Drawn by:	PI	Checked by:	JS
Job No.	20009	Drawing No.	E1.4



GROUND FLOOR KEY PLAN
SCALE 1:250

EXISTING WALL MOUNTED RACK
AND NETWORK SWITCH

DRAWING KEYNOTE:

1 RUN 4-1/C #2/0 AWG RW90 CU. + GND IN 53mm (2") EMT CONDUIT FROM NEW BREAKER IN EXISTING 1200A SIEMENS 'TECH WING' PANEL TO NEW PANEL '1N' LOCATED IN EXISTING STORAGE ROOM 116. REFER TO DRAWING E5.1 FOR DETAILS. NOTE THE INCREASED WIRING WAS SIZED ACCORDINGLY DUE TO DISTANCE AND VOLTAGE DROP.

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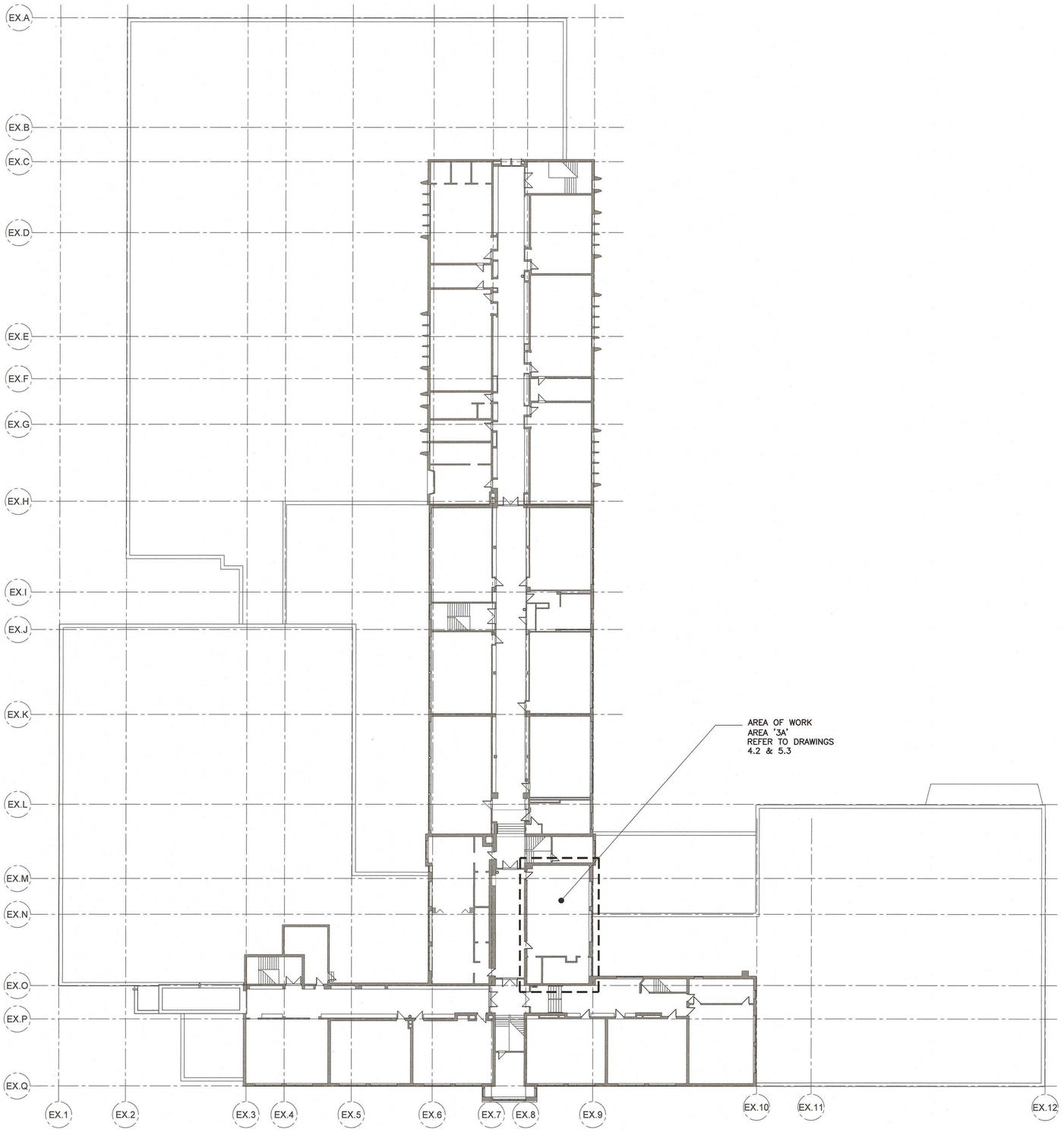
Drawing Title:
KEY PLAN
GROUND FLOOR

Scale:	AS SHOWN	Date:	MAY 2020
Drawn by:	PI	Checked by:	JS
Job No.	20009	Drawing No.	E2.1



THIRD FLOOR KEY PLAN
SCALE: 1:250

Client
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100053024
01.21.21
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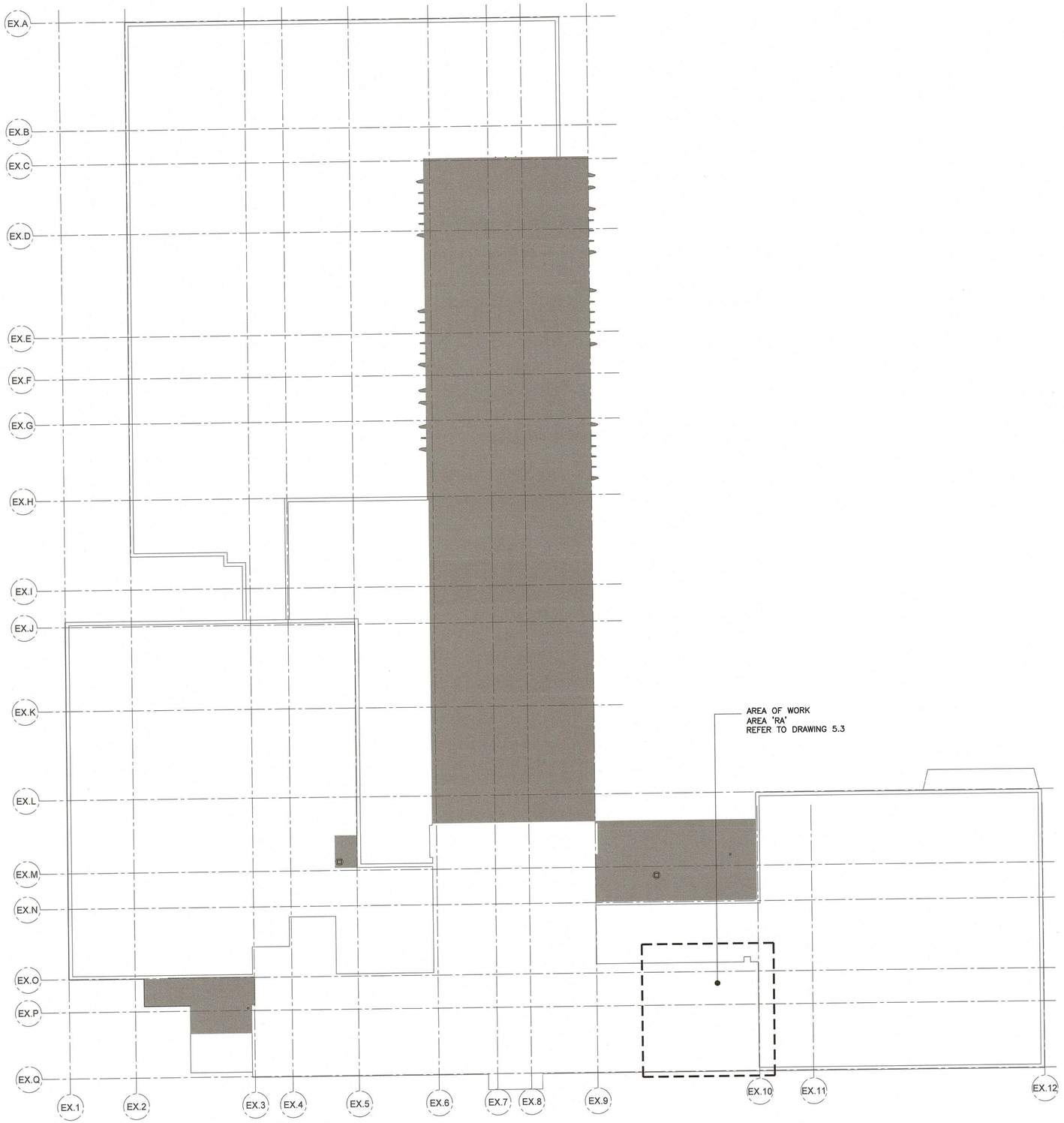
Drawing Title:
KEY PLAN
THIRD FLOOR

Scale:	AS SHOWN	Date:	MAY 2020
Drawn by:	PI	Checked by:	JS
Job No.	20009	Drawing No.	E2.2



ROOF KEY PLAN
SCALE: 1:250

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100053024
01.21.21
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Drawing Title:
KEY PLAN
ROOF

Scale:	AS SHOWN	Date:	MAY 2020
Drawn by:	PI	Checked by:	JS
Job No.	20009	Drawing No.	E2.3

EXISTING SIEMENS PANEL CAT. NO. EQL32200D

PANEL ID: LP-CS — MOUNTING: SURFACE — PANEL MAINS: 200A
VOLTAGE: 120/240V — LOCATION: EXISTING EL/MECH/STORAGE ROOM 114
PHASE/WIRE: 1PH/3W — FED FROM: DISTRIBUTION PANEL 'DP1' — KAIC RATING: 10 KAIC

DESCRIPTION	BRK SIZE	BRK TYPE	WIRE SIZE	LOAD	CCT	BUS	CCT	LOAD	WIRE SIZE	BRK TYPE	BRK SIZE	DESCRIPTION
SPACE					1	A	2					SPACE
CAFE RECP	15A-1P				3A	B	4A				15A-1P	BREAKFAST RM RECP
POP MACHINE	15A-1P				3B		4B				15A-1P	TV PLUG STAIRS
	15A-1P				5A	A	6A				15A-1P	STORAGE LIGHTS
FRIDGE	15A-1P				5B		6B				15A-1P	BREAKFAST RM LIGHTS
	15A-1P				7A	B	8				15A-2P	SPLIT RECP
FRIDGE	15A-1P				7B							
	15A-1P				9A	A	10					
COPIER STAFF ROOM	15A-1P				9B							
CAFE LIGHTS EAST	15A-1P				11A	B	12				15A-2P	SPLIT RECP
	15A-1P				11B							
	15A-1P				13A	A	14					
	15A-1P				13B							
CAFE LIGHTS MIDDLE	15A-1P				15A	B	16				15A-2P	
	15A-1P				15B							
CAFE LIGHTS WEST	15A-1P				17A	A	18					
PANEL RECP	15A-1P				17B							
BIG STORAGE LIGHTS	15A-1P				19A	B	20				15A-2P	FRIDGES
SHOW CAFE PLUG	15A-1P				19B							
TV RECP	15A-1P				21A	A	22					
	15A-1P				21B							
SPLIT RECP	15A-2P				23	B	24				15A-2P	SPLIT RECP
					25	A	26					
	30A-2P				27	B	28				15A-2P	SPLIT STAFF MICROWAVE
					29	A	30					
					31	B	32					

BRK TYPE: * GFCI BREAKER
** COMBINATION AFCI
*** LOCK ON BREAKER

LOAD PHASE A (W):
LOAD PHASE B (W):

TOTAL LOAD (W):
TOTAL AMPS (A):

PANEL ID: 1N — MOUNTING: SURFACE — PANEL MAINS: 125 A
VOLTAGE: 120/208V — LOCATION: EXISTING STORAGE ROOM 116 — MAIN BREAKER: 125 A
PHASE/WIRE: 3PH/4W — FED FROM: 125A-3P BREAKER FROM 'TECH WING' PANEL — KAIC RATING: 10 KAIC

DESCRIPTION	BRK SIZE	BRK TYPE	WIRE SIZE	LOAD	CCT	BUS	CCT	LOAD	WIRE SIZE	BRK TYPE	BRK SIZE	DESCRIPTION
EMERG LITE/RUNNING MAN SIGNS	15A-1P		2#12	100	1	A	2	400	2#12		15A-1P	REC-OFFICES 113 & 114
LITE-OFFICES/ROOMS	15A-1P		2#12	774	3	B	4	400	2#12		15A-1P	REC-OFFICES 106 & 112
LITE-OFFICES/OPEN AREAS	15A-1P		2#12	892	5	C	6	400	2#12		15A-1P	REC-OFFICES 105 & 106
UNIV.WR.-LITE/EF-1/EMERG	15A-1P		2#12	250	7	A	8	200	2#12		15A-1P	REC-PRINCIPAL OFFICE 103
UNIV.WR.-REC CHANGE TABLE	15A-1P		2#12	100	9	B	10	200	2#12		15A-1P	REC-GUIDANCE FRONT/STOR
UNIV.WR.-DOOR OP	15A-1P		2#12	500	11	C	12	200	2#12		15A-1P	REC-GUIDANCE BACK/CORR
UNIV.WR.-HAND DRYER	15A-1P		2#12	1200	13	A	14	400	2#12		15A-1P	REC-OFFICES 107 & 115
UNIV.WR.-TOUCHLESS FAUCET	15A-1P		2#12	50	15	B	16	400	2#12		15A-1P	REC-MEETING 102
SPARE	15A-1P				17	C	18	500	2#12		15A-1P	REC-COPY ROOM 108
REC-FRIDGE BREAKFAST AREA	15A-1P		2#12	700	19	A	20	800	2#12		20A-1P	REC-LARGE PRINTER ROOM 108
REC-FRIDGE BREAKFAST AREA	15A-1P		2#12	700	21	B	22	150	2#12		15A-1P	REC-SHREDDER 108
COUNTER REC-BREAKFAST AREA	15A-1P		2#12	200	23	C	24	500	2#12		20A-1P	REC-SMALL PRINTER 108
MOTORIZED DAMPERS	15A-1P		2#12	50	25	A	26	200	2#12		15A-1P	REC-GENERAL OFFICE/RECEPTION
REC-GENERAL OFFICE	15A-1P		2#12	100	27	B	28	200	2#12		15A-1P	REC-RECEPTION
SPARE	15A-1P				29	C	30	300	2#12		15A-1P	REC-PA SYSTEM
SPARE	15A-1P				31	A	32	400	2#12		15A-1P	REC-OPEN STATIONS
SPARE	15A-1P				33	B	34	100	2#12		20A-1P	20A CONVENIENCE REC-ROOF
SPARE	15A-1P				35	C	36				20A-1P	SPARE
SPARE	15A-1P				37	A	38				20A-1P	SPARE
SPARE	15A-1P				39	B	40					SPACE
SPARE	15A-1P				41	C	42					SPACE
SPARE	15A-1P				43	A	44					SPACE
SPARE	15A-1P				45	B	46					SPACE
SPARE	15A-1P				47	C	48					SPACE
SPARE	15A-3P				49	A	50				30A-3P	SPARE
					51	B	52					
					53	C	54					
CU-3	30A-3P		3#8 TECK90	2595	55	A	56	2595	3#8 TECK90		30A-3P	CU-4
				2595	57	B	58	2595				
				2595	59	C	60	2595				
DUCT HEATER DH-1	35A-2P		2#8	2500	61	A	62	553	3#10		15A-3P	FAN COIL FC-1
				2500	63	B	64	553				
SPACE					65	C	66	553				
SPACE					67	A	68	553	3#10		15A-3P	FAN COIL FC-2
ERV-1	15A-2P		2#12	260	69	B	70	553				
				260	71	C	72	553				

BRK TYPE: * GFCI BREAKER
** COMBINATION AFCI
*** LOCK ON BREAKER

LOAD PHASE A (W): 13496
LOAD PHASE B (W): 12230
LOAD PHASE C (W): 10048

TOTAL LOAD (W): 35774
TOTAL AMPS (A): 99.302

EQUIPMENT SCHEDULE

EQUIPMENT			MOTOR							STARTER (SUPPLIED BY/INSTALLED BY)				ACCESSORIES (SUPPLIED BY/INSTALLED BY)			FIRE ALARM	
TAG	DESCRIPTION	LOCATION	VOLTAGE (V)	PHASE	HORSEPOWER (HP)	WATTS (W)	MCA (A)	LOAD FLA (A)	MOCP (A)	PACKAGED STARTER	MANUAL STARTER	COMB. FVNR	VFD	LINE VOLTAGE THERMOSTAT	LOW VOLTAGE THERMOSTAT	LOCAL DISCONNECT SWITCH	FIRE ALARM SHUTDOWN	COMMENTS
ERV-1	INDOOR ERV UNIT		208	1			3.1		15							E/E		
DH-1	ELECTRIC DUCT HEATER	ERV-1 DUCT	208	1		5000			35							E/E		
FC-1	FAN COIL	GENERAL OFFICE	208	3			5.75		15							M/E		
CU-3	CONDENSING UNIT	ROOF	208	3			18		30							E/E		
FC-2	FAN COIL	GENERAL OFFICE	208	3			5.75		15							M/E		
CU-4	CONDENSING UNIT	ROOF	208	3			18		30							E/E		
EF-1	EXHAUST FAN	UNIV. WR 117	120	1				0.17	15		E/E							EF-1 CONTROLLED THROUGH OCCUPANCY SENSOR

LEGEND: 'M' DENOTES MECHANICAL CONTRACTOR
'E' DENOTES ELECTRICAL CONTRACTOR
'G' DENOTES GENERAL CONTRACTOR

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LICENSED PROFESSIONAL ENGINEER
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100053024
01.21.21
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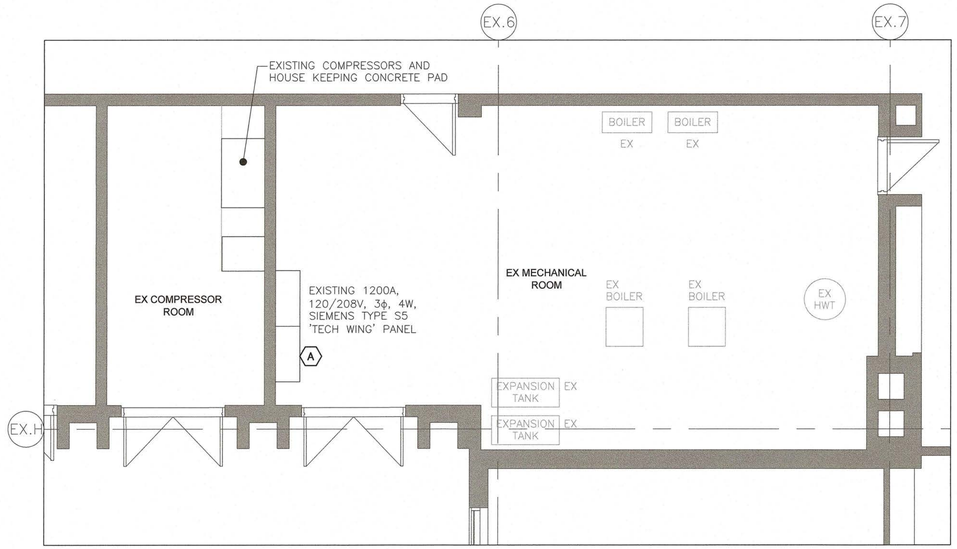
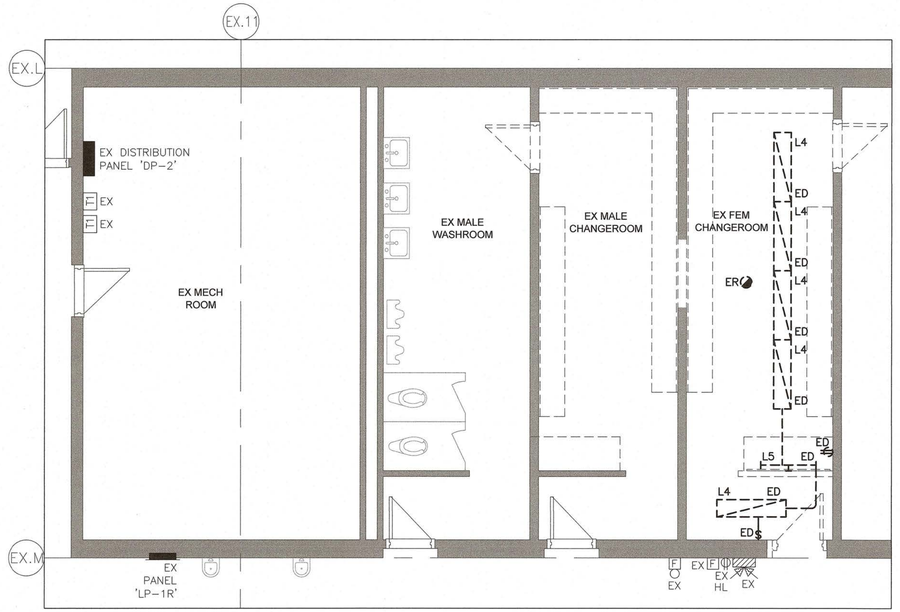
Drawing Title:
PANEL SCHEDULE AND MECHANICAL EQUIPMENT SCHEDULE NEW

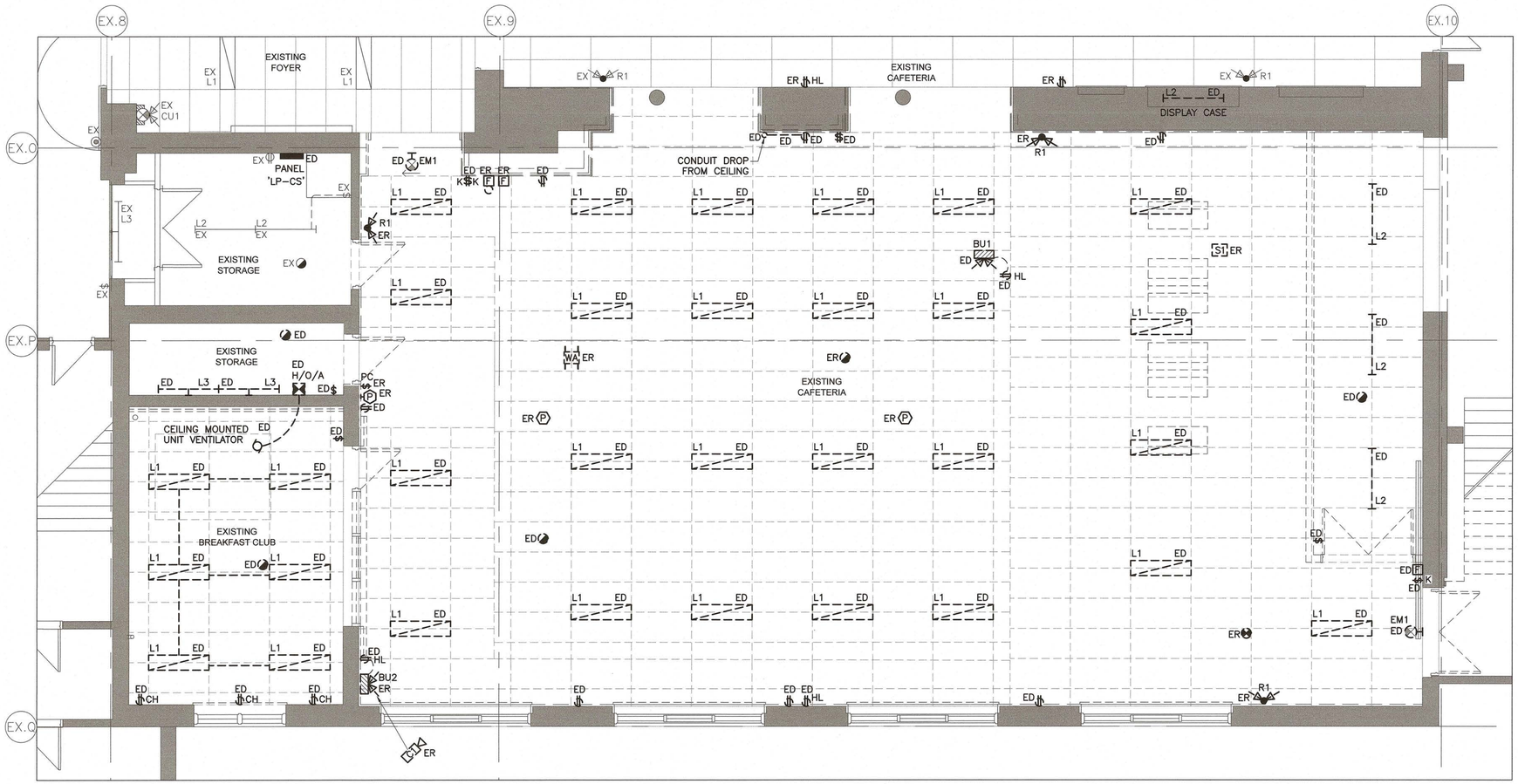
Scale:	NTS	Date:	MAY 2020
Drawn by:	PI	Checked by:	JS
Job No.	20009	Drawing No.	E3.1



AREA '1A' PARTIAL GROUND FLOOR PLAN DEMOLITION
SCALE: 1:50



AREA '1B' PARTIAL GROUND FLOOR PLAN DEMOLITION
SCALE: 1:50



AREA '1C' PARTIAL GROUND FLOOR PLAN DEMOLITION
SCALE: 1:50

GENERAL NOTES:

1. THE ELECTRICAL CONTRACTOR IS FULLY RESPONSIBLE FOR VERIFYING ALL ELECTRICAL ITEMS ON SITE PRIOR TO COMMENCING WORK. IF THERE ARE ERRORS OR OMISSIONS ON THE DRAWINGS, THE CONTRACTOR WILL MODIFY THE DRAWINGS AND NOTIFY THE CONSULTANT OF ANY MAJOR DISCREPANCIES BETWEEN THE DRAWINGS AND SITE CONDITIONS.
2. THE ELECTRICAL CONTRACTOR IS FULLY RESPONSIBLE FOR REMOVING/RELOCATING ALL ELECTRICAL DEVICES/CABLES/CONDUITS ETC. IN AREAS BEING DEMOLISHED AS SHOWN ON ARCHITECTURAL AND ELECTRICAL DRAWINGS. NO ATTEMPT HAS BEEN MADE TO IDENTIFY EVERY SINGLE EXISTING ELECTRICAL DEVICE ON EXISTING DRAWINGS. THE CONTRACTOR IS TO VISIT THE SITE PRIOR TO SUBMITTING TENDER PRICE TO REVIEW WHAT IS REQUIRED WITH RESPECT TO DEMOLITION. NO EXTRAS WILL BE ALLOWED FOR NOT THOROUGHLY REVIEWING THE EXISTING SITE.
3. FOR INDICATED DEVICES SHOWN TO BE DEMOLISHED, ELECTRICAL CONTRACTOR TO REWORK EXISTING WIRING OR PROVIDE NEW WIRING AND CONDUITS TO SUIT NEW DEVICES AS SHOWN ON DRAWINGS.
4. FOR INDICATED DEVICES ARE TO BE RELOCATED, ELECTRICAL CONTRACTOR TO REWORK EXISTING WIRING AND REINSTALL EXISTING DEVICES AS SHOWN IN RENOVATION PLAN.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE AND VERIFY WITH THE OWNER ALL DEVICES TO BE SALVAGED, MOVED & STORED PRIOR TO DEMOLITION.

DEMOLITION KEYNOTES:

(A) EXISTING 70A–3P CIRCUIT BREAKER IN EXISTING 1200A, 120/208V SIEMENS PANEL TO BE REPLACED WITH NEW. REFER TO NEW DRAWING E5.1 FOR DETAILS.

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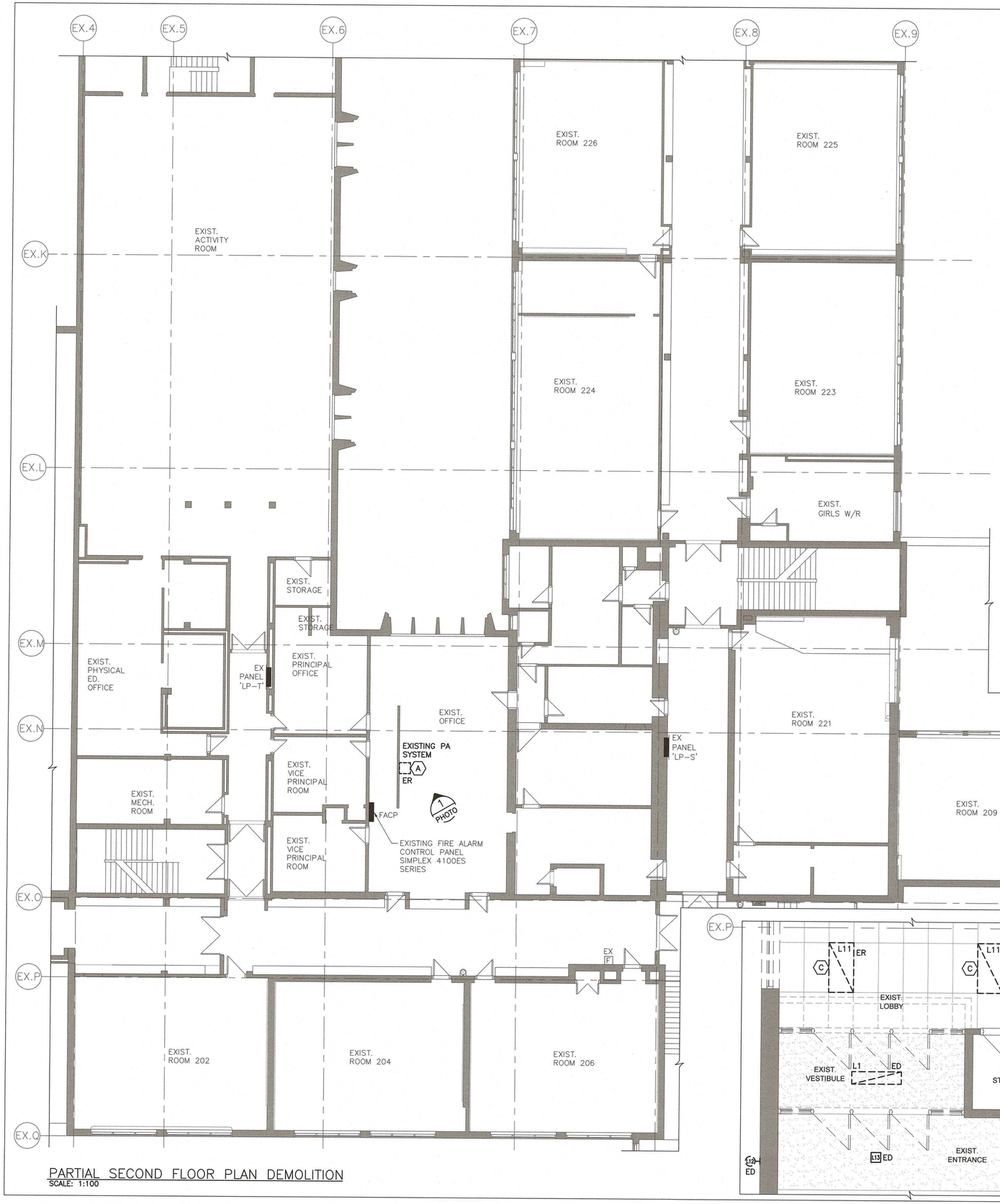
100053024
01.21.21.
PROVINCE OF ONTARIO

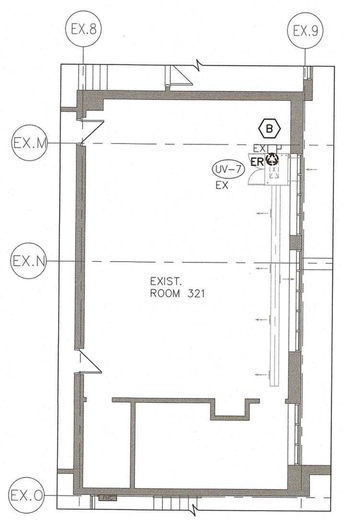
Drawing Title:
AREAS '1A', '1B' & '1C' PARTIAL GROUND FLOOR DEMOLITION

Scale:	AS SHOWN	Date:	MAY 2020
Drawn by:	PI	Checked by:	JS
Job No.	20009	Drawing No.	E4.1



PARTIAL SECOND FLOOR PLAN DEMOLITION
SCALE: 1:100

AREA '1E' PARTIAL GROUND FLOOR PLAN DEMOLITION
SCALE: 1:50



AREA '3A' PARTIAL THIRD FLOOR PLAN DEMOLITION
SCALE: 1:100

GENERAL NOTES:

1. THE ELECTRICAL CONTRACTOR IS FULLY RESPONSIBLE FOR VERIFYING ALL ELECTRICAL ITEMS ON SITE PRIOR TO COMMENCING WORK. IF THERE ARE ERRORS OR OMISSIONS ON THE DRAWINGS, THE CONTRACTOR WILL MODIFY THE DRAWINGS AND NOTIFY THE CONSULTANT OF ANY MAJOR DISCREPANCIES BETWEEN THE DRAWINGS AND SITE CONDITIONS.
2. THE ELECTRICAL CONTRACTOR IS FULLY RESPONSIBLE FOR REMOVING/RELOCATING ALL ELECTRICAL DEVICES/CABLES/CONDUITS ETC. IN AREAS BEING DEMOLISHED AS SHOWN ON ARCHITECTURAL AND ELECTRICAL DRAWINGS. NO ATTEMPT HAS BEEN MADE TO IDENTIFY EVERY SINGLE EXISTING ELECTRICAL DEVICE ON EXISTING DRAWINGS. THE CONTRACTOR IS TO VISIT THE SITE PRIOR TO SUBMITTING TENDER PRICE TO REVIEW WHAT IS REQUIRED WITH RESPECT TO DEMOLITION. NO EXTRAS WILL BE ALLOWED FOR NOT THOROUGHLY REVIEWING THE EXISTING SITE.
3. FOR INDICATED DEVICES SHOWN TO BE DEMOLISHED, ELECTRICAL CONTRACTOR TO REWORK EXISTING WIRING OR PROVIDE NEW WIRING AND CONDUITS TO SUIT NEW DEVICES AS SHOWN ON DRAWINGS.
4. FOR INDICATED DEVICES ARE TO BE RELOCATED, ELECTRICAL CONTRACTOR TO REWORK EXISTING WIRING AND REINSTALL EXISTING DEVICES AS SHOWN IN RENOVATION PLAN.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE AND VERIFY WITH THE OWNER ALL DEVICES TO BE SALVAGED, MOVED & STORED PRIOR TO DEMOLITION.

DEMOLITION KEYNOTE:

(A) EXISTING MAIN PA SYSTEM INCLUDING ALL EQUIPMENT AND ACCESSORIES TO BE RELOCATED TO LOCATION AS SHOWN ON NEW LAYOUT. THE PA SYSTEM CONTRACTOR SHALL INVESTIGATE THE ORIGIN AND DESTINATION OF EXISTING PA SYSTEMS AND PROVIDE ALL NEW REQUIRED MATERIALS AND LABOUR AS REQUIRED. THE ELECTRICAL CONTRACTOR TO PROVIDE TWO (2) MINIMUM OF 103mm EMPTY RACEWAY c/w PULL ROPES FROM EXISTING PA SYSTEM LOCATION TO NEW PA SYSTEM LOCATION AS REQUIRED. PROVIDE JUNCTION BOX(ES) AS REQUIRED AND TERMINATE ONE EMPTY RACEWAY UPTO SECOND FLOOR LEVEL AND ANOTHER RACEWAY UPTO SECOND FLOOR CEILING SPACE. EXISTING WALL BEHIND PA SYSTEM MIGHT BE DEMOLISH IN FUTURE PHASES.

(B) TEMPORARY DISCONNECT POWER CONNECTION FOR EXISTING UNIT VENTILATOR TO ALLOW REMOVAL OF EXISTING WINDOW AND INSTALLATION OF NEW WINDOW.

(C) TEMPORARY DISCONNECT, REMOVE EXISTING LIGHT FIXTURE AND MAKE SAFE AS REQUIRED FOR PREPARATION OF NEW CEILING CONSTRUCTION. REFER TO NEW DRAWING E5.2 FOR DETAILS.

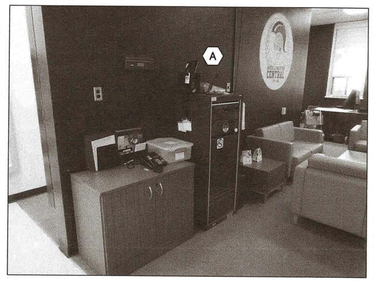


PHOTO '1'

Client
Halton District School Board
2050 Guelph Line
Burlington, Ontario

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ALL CONSTRUCTION TO MEET ONTARIO BUILDING CODE REQUIREMENTS.

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Key Plan N.T.S.

Project North | True North

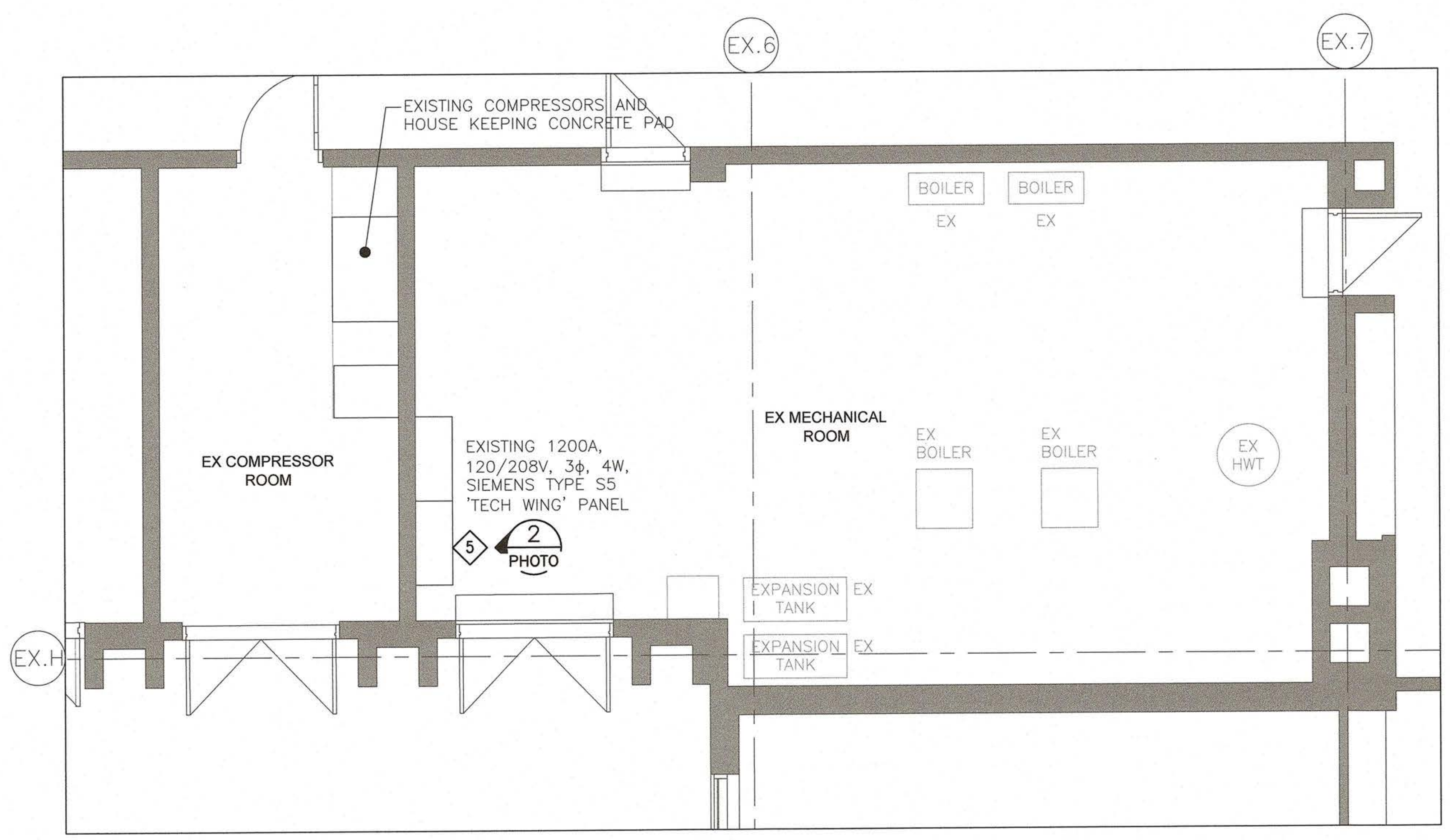
No.	Revisions	Date
A	Issued For Permit	Jan 21,2021
No.	Issue	Date

General Contractor shall check and verify all dimensions and report all errors and omissions to the Architect. Do not scale the drawings. Drawings shall not be used for construction purposes until issued by the Architect for construction.

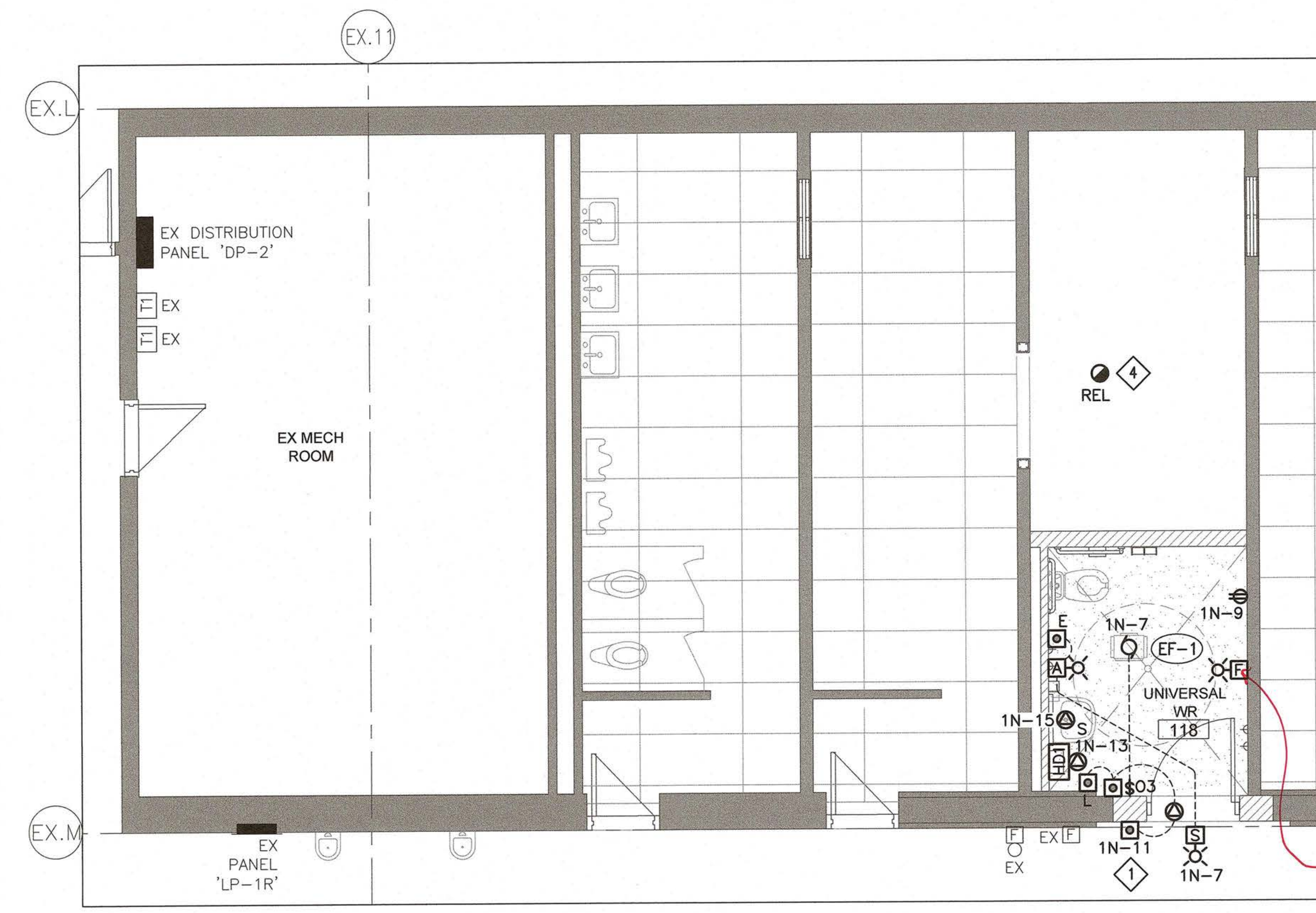
LICENCED PROFESSIONAL ENGINEER
C. KURUPPU
100053024
01.21.21
PROVINCE OF ONTARIO

Drawing Title:
PARTIAL SECOND FLOOR & AREA '3A' THIRD FLOOR DEMOLITION

Scale:	AS SHOWN	Date:	MAY 2020
Drawn by:	PI	Checked by:	JS
Job No.	20009	Drawing No.	E4.2



AREA '1A' PARTIAL GROUND FLOOR PLAN NEW
SCALE: 1:50



POWER & SYSTEMS AREA '1B' PARTIAL GROUND FLOOR PLAN NEW
SCALE: 1:50

C/W AUDIBLE SIGNAL DEVICE AS PER DIV.B, 3.2.4.19.(1)(e)

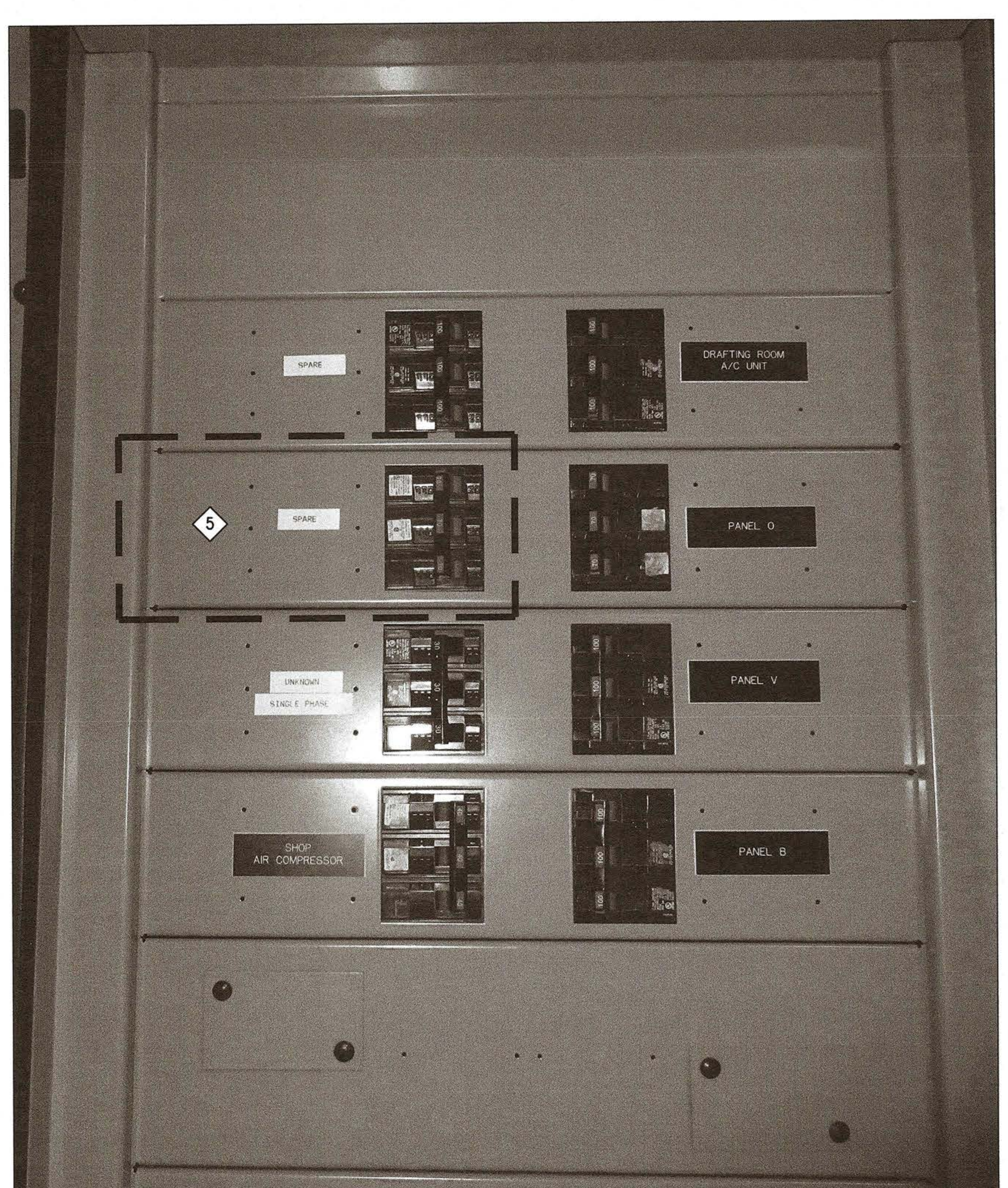
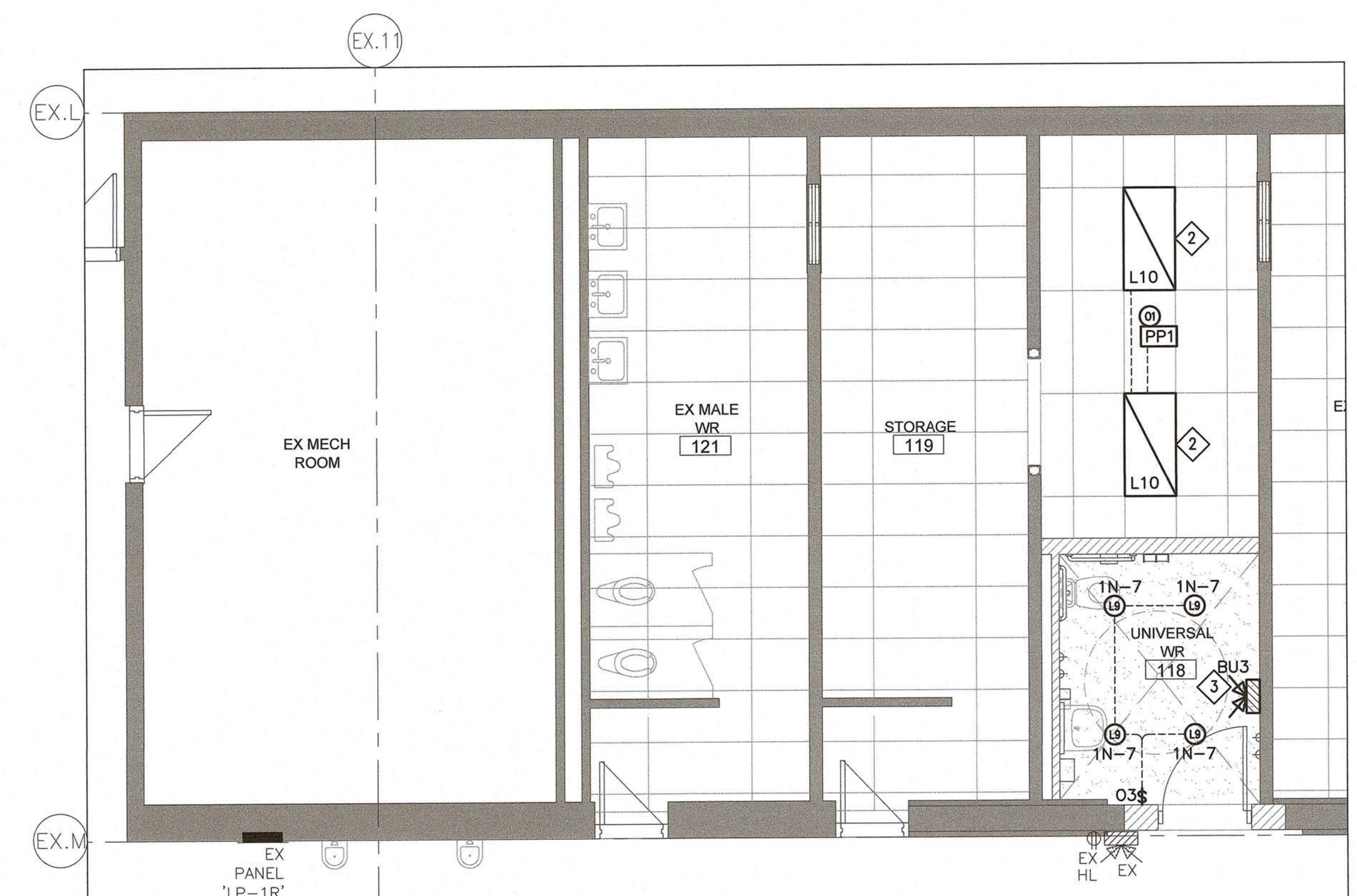


PHOTO '2'



LIGHTING AREA '1B' PARTIAL GROUND FLOOR PLAN NEW
SCALE: 1:50

GENERAL NOTE:

1. ALL EXPOSED EMT CONDUIT TO BE PAINTED TO MATCH EXISTING WALL/CEILING COLOUR.

DRAWING KEYNOTES:

1. NEW DOOR OPERATOR SUPPLIED BY GENERAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR. FOR FIRE RATED DOORS (REFER TO ARCHITECTURAL DRAWINGS) PROVIDE INTERLOCK TO FIRE ALARM CONTROL PANEL SO THE DOOR OPERATOR GETS DE-ENERGIZED IN CASE OF FIRE.
2. REUSE EXISTING BRANCH CIRCUIT BREAKER, PROVIDE NEW BOX, CONDUITS AND BRANCH WIRING AS REQUIRED AND WIRE TO NEW LIGHT FIXTURES AS SPECIFIED.
3. REUSE EXISTING EMERGENCY LIGHTING CIRCUIT BREAKER, PROVIDE NEW WIRING/CONDUITS AS REQUIRED FOR NEW EMERGENCY BATTERY UNIT AS SPECIFIED.
4. RELOCATE EXISTING FIRE ALARM DEVICE AS SHOWN. PROVIDE NEW WIRING/CONDUIT/BOX AND WIRE TO EXISTING FIRE ALARM SYSTEM AS REQUIRED. REFER TO DRAWING E1.1 FIRE ALARM SYSTEM RENOVATIONS SPECIFICATIONS REGARDING VERIFICATION REQUIREMENT.
5. REPLACE EXISTING SPARE BREAKER WITH NEW 125A-3P CIRCUIT BREAKER IN EXISTING SIEMENS PANEL TO FEED NEW PANEL '1N' LOCATED ON GROUND FLOOR EXISTING STORAGE ROOM 116. REFER TO DRAWINGS E2.1 FOR ROUTING OF POWER CABLE AND E5.3 FOR NEW PANEL '1N'.

FIRE ALARM SYSTEM to be installed and verified by ... to the requirements of ... CAN/ULC-S524-M and CAN/... Ontario Hydro Fire Alarm Permit is also required.

NOTE: FINAL LOCATION OF EXIT LIGHTS, EMERGENCY LIGHTING AND FIRE ALARM DEVICES ARE SUBJECT TO FIELD APPROVAL

LIGHTING AND EMERGENCY POWER TO COMPLY WITH DIV. B. 3.2.7 OBC.

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Key Plan N.T.S.
N — Project North
N — True North

No.	Revisions	Date

No.	Issue	Date
A	Issued For Permit	Jan 21,2021

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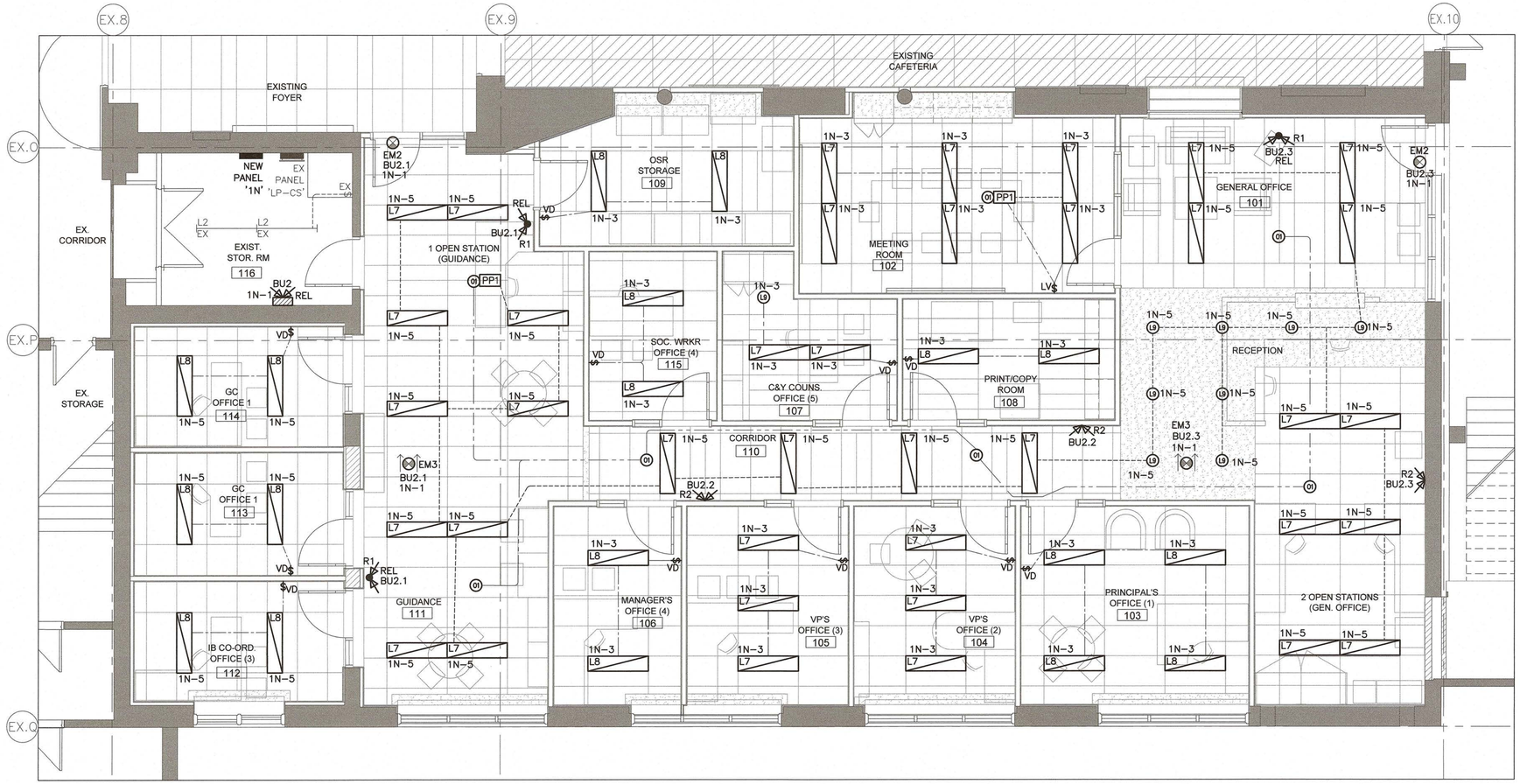
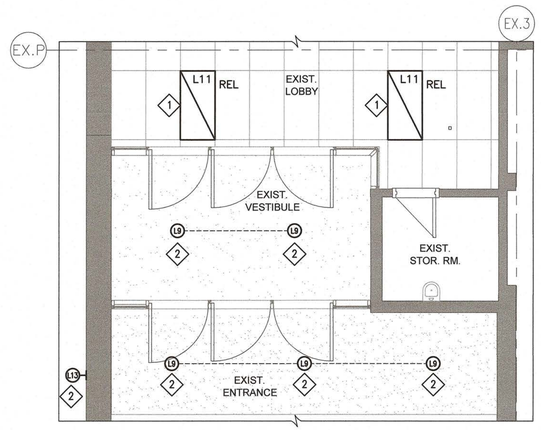
LICENSED PROFESSIONAL ENGINEER
C. KURUPPU
100053024
01.21.21
PROVINCE OF ONTARIO

Drawing Title:
LIGHTING, POWER & SYSTEMS AREAS '1A' & '1B' PARTIAL GROUND FLOOR NEW

Scale: AS SHOWN	Date: MAY 2020
Drawn by: PI	Checked by: JS
Job No. 20009	Drawing No. E5.1



AREA '1C' LIGHTING PARTIAL GROUND FLOOR PLAN NEW
SCALE: 1:50



AREA '1E' LIGHTING PARTIAL GROUND FLOOR PLAN NEW
SCALE: 1:50

DRAWING KEYNOTES:

1. REINSTALL AND RECONNECT EXISTING LIGHT FIXTURE AFTER INSTALLATION OF NEW CEILING CONSTRUCTION.
2. REUSE EXISTING LIGHTING BRANCH CIRCUIT, PROVIDE NEW WIRING/CONDUITS/BOX AS REQUIRED FOR NEW LIGHT FIXTURE AS SPECIFIED.

LIGHTING AND EMERGENCY POWER TO COMPLY WITH DIV. B. 3.2.7 OBC.

NOTE: FINAL LOCATION OF EXIT LIGHTS, EMERGENCY LIGHTING AND FIRE ALARM DEVICES ARE SUBJECT TO FIELD APPROVAL.

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Key Plan N.T.S.

Project North / True North

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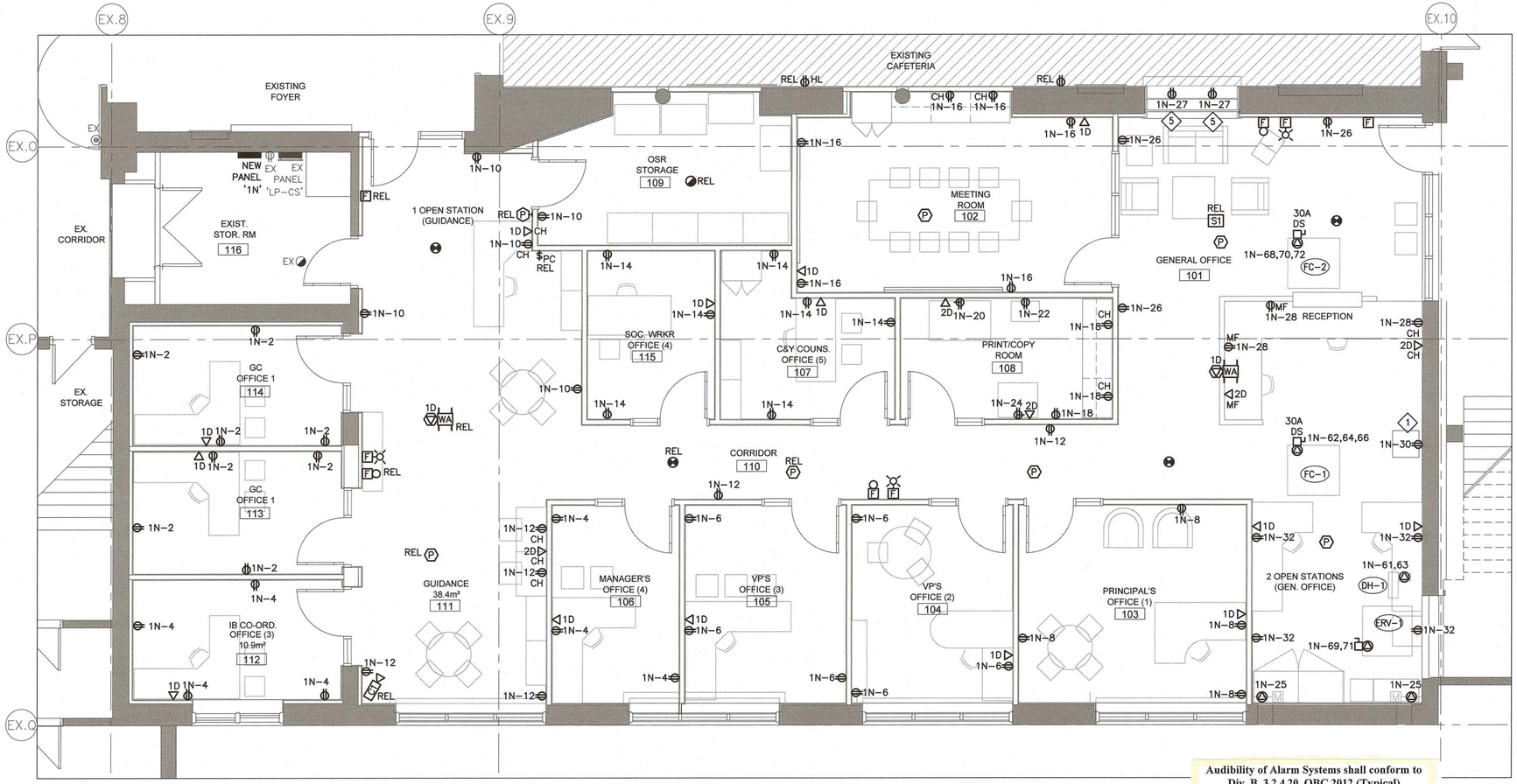
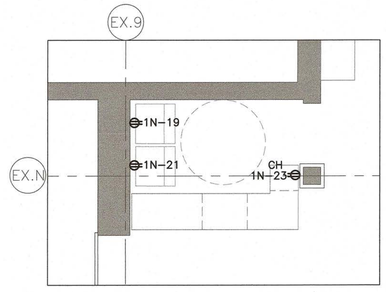
LICENSED PROFESSIONAL ENGINEER
C. KURUPPU
100053024
01.21.21
PROVINCE OF ONTARIO

Drawing Title:
LIGHTING AREA '1C' PARTIAL GROUND FLOOR NEW

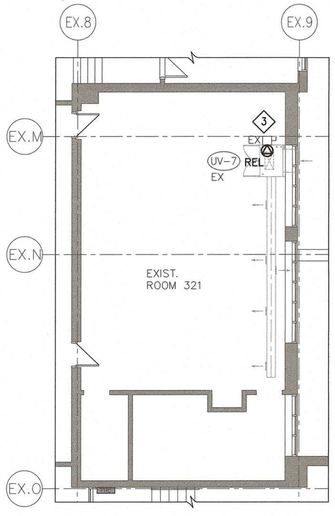
Scale:	AS SHOWN	Date:	MAY 2020
Drawn by:	PI	Checked by:	JS
Job No.	20009	Drawing No.	E5.2



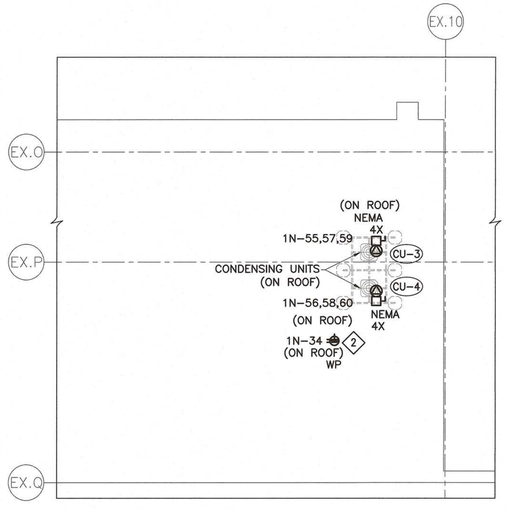
AREA '1C' POWER & SYSTEMS PARTIAL GROUND FLOOR PLAN NEW
SCALE: 1:50



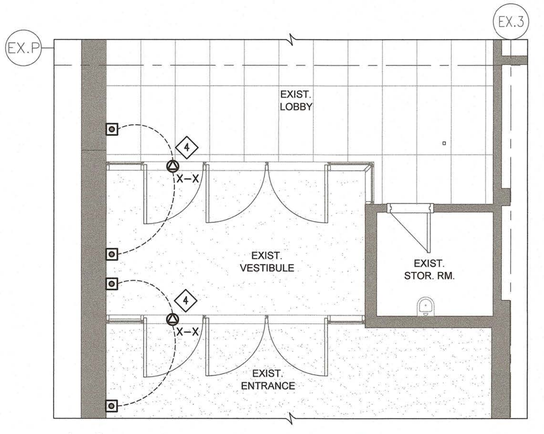
AREA '1D' POWER PARTIAL GROUND FLOOR PLAN NEW
SCALE: 1:50



AREA '3A' PARTIAL THIRD FLOOR PLAN NEW
SCALE: 1:100



AREA 'RA' POWER PARTIAL ROOF PLAN NEW
SCALE: 1:100



AREA '1E' LIGHTING PARTIAL GROUND FLOOR PLAN NEW
SCALE: 1:50

GENERAL NOTE:

1. ALL EXPOSED EMT CONDUIT TO BE PAINTED TO MATCH EXISTING WALL/CEILING COLOUR.

DRAWING KEYNOTES:

1. EXISTING MAIN PA SYSTEM INCLUDING ALL EQUIPMENT AND ACCESSORIES TO BE RELOCATED AS SHOWN. NEW TWO (2) MINIMUM OF 103mm EMPTY RACEWAY c/w PULL ROPES PROVIDED BY ELECTRICAL CONTRACTOR TO BE TERMINATE AT THIS LOCATION. ELECTRICAL CONTRACTOR TO FIELD DETERMINE THE BEST SUITABLE ROUTING OF THE NEW RACEWAY. THE PA SYSTEM CONTRACTOR SHALL PROVIDE ALL NEW REQUIRED MATERIALS, LABOUR AND REWIRE ALL EXISTING PA DEVICES TO MAIN PA SYSTEM.
2. PROVIDE NEW WEATHERPROOF 20A GFCI RECEPTACLE FOR MAINTENANCE OF MECHANICAL EQUIPMENT ON ROOF AS PER ESA STANDARDS SECTION '26-710'. NEW RECEPTACLE TO BE MOUNTED ON STAINLESS STEEL PEDESTAL AT MINIMUM OF 750mm ABOVE FINISHED ROOF LEVEL.
3. RECONNECT EXISTING POWER CONNECTION FOR EXISTING UNIT VENTILATOR AFTER INSTALLATION OF NEW WINDOW.
4. ELECTRICAL CONTRACTOR TO FIELD VERIFY TO REUSE EXISTING SPARE BREAKER OR PROVIDE NEW DEDICATED 15A-1P CIRCUIT BREAKER IN EXISTING PANEL. PROVIDE NEW BOX, CONDUITS AND BRANCH WIRING AS REQUIRED AND WIRE FROM THE NEAREST PANEL TO NEW POWER DOOR OPERATOR (SUPPLIED BY GENERAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR) AS REQUIRED.
5. REFER TO ARCHITECTURAL DRAWING A501 FOR EXACT LOCATION AND FURTHER INFORMATION.

LIGHTING AND EMERGENCY POWER TO COMPLY WITH DIV. B. 3.2.7 OBC.

NOTE: FINAL LOCATION OF EXIT LIGHTS, EMERGENCY LIGHTING AND FIRE ALARM DEVICES ARE SUBJECT TO FIELD APPROVAL

Audibility of Alarm Systems shall conform to Div. B, 3.2.4.20, OBC 2012 (Typical)

FIRE ALARM SYSTEM to be installed and verified by manufacturer's representative to the requirements of CAN/ULC-S524-M and CAN/ULC-S537-M. Buyer is to arrange Hydro Fire Alarm Permit is also required.

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C. KURUPPU
100053024
01.21.21
PROVINCE OF ONTARIO

Drawing Title:
POWER & SYSTEMS AREAS '1C', '1D', '3A' & 'RA' GROUND, THIRD FLOORS AND ROOF NEW

Scale:	AS SHOWN	Date:	MAY 2020
Drawn by:	PI	Checked by:	JS
Job No.	20009	Drawing No.	E5.3