	RICAL GENERAL REQUIREMENTS	6.	PROVIDE A DIRECTORY CARD ON THE INSIDE OF THE PANEL DOOR IN A METAL FRAME WITH CLEAR PLASTIC COVER.
1.	ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE ONTARIO ELECTRICAL SAFETY CODE, THE LOCAL ELECTRICAL SAFETY AUTHORITY INSPECTION OFFICE, THE	7.	ALL BRANCH BREAKERS SHALL BE THERMAL-MAGNETIC TRIP INDICATED, AMBIENT TEMPERATURE COMPENSATED AND BOLTED TO THE BUS BAR.
	ONTARIO BUILDING CODE, THE ONTARIO FIRE CODE AND ANY OTHER LOCAL REGULATIONS HAVING JURISDICTION OVER THE WORK OF THIS TRADE.	8.	ALL SURFACE MOUNTED EQUIPMENT SHALL BE MOUNTED ON 19 MM (3/4"), FIRE RATED, PLYWOOD BACKBOARD.
2.	BEFORE TENDERING, EXAMINE THE SITE AND ALL DRAWINGS AND SPECIFICATIONS OF ALL TRADES AND BE FAMILIAR WITH THE WORK OF THIS TRADE. NO EXTRAS WILL BE ALLOWED FOR THE FAILURE TO DO SO.	CONDUC 1.	USE TW75 OR RW90 COPPER CONDUCTORS CSA APPROVED FOR THE APPLICATION. SIZE THE CONDUCTORS SO THAT THE MAXIMUM BRANCH CIRCUIT VOLTAGE DROP DOES NOT EXCEED
3.	ALL ELECTRICAL WORK SHALL COMPLY WITH CSA ELECTRICAL BULLETIN APPLICABLE AT TENDER CLOSE. WHERE SPECIFIC BULLETINS ARE NOT NAMED THEY ARE STILL CONSIDERED AN INTEGRAL PART OF THIS SPECIFICATION.	2.	MAXIMUM BRANCH CIRCUIT VOLTAGE DROP DOES NOT EXCEED 3%. MINIMUM CONDUCTOR SIZE IS #12 AWG UNLESS OTHERWISE INDICATED. DESIGN IS BASED ON COPPER CONDUCTORS EXCEPT WHERE SHOWN ON THE DRAWINGS. ALUMINUM CONDUCTORS MAY BE
4.	PROVIDE ALL GROUNDING AND BONDING TO GROUND REQUIRED, REGARDLESS IF NOT SHOWN ON THE DRAWINGS. GROUNDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ONTARIO ELECTRICAL SAFETY CODE.		USED ONLY FOR FEEDERS #6 AWG OR LARGER. SIZE THE ALUMINUM CONDUCTORS TO THE EQUIVALENT AMPACITY OF COPPER CONDUCTORS. CONDUCTORS IN UNDERGROUND RACEWAYS MAY BE RWU90 IN POLYETHYLENE PIPE.
5.	PROVIDE ALL NEW MATERIALS HAVING CSA, CUL, WARNOCK HERSEY OR OTHER APPROVAL AGENCY LABEL AND LISTING. ALL WORKMANSHIP BY THIS TRADE SHALL BE FIRST CLASS, CONFORMING TO INDUSTRY STANDARD PRACTICES FOR SAFETY, ACCESSIBILITY, DURABILITY AND NEATNESS FOR ACCEPTANCE	3.	TERMINATE ALUMINUM FEEDER CONDUCTORS WITH PRESSURE CONNECTORS, AND UTILIZE AN OXIDE PREVENTATIVE SOLUTION "PENETROX" ON ALL BARE SURFACES. LUGS TO BE ALUMINUM OR ALUMINUM/COPPER ALLOY ONLY.
6.	BY THE OWNERS' REPRESENTATIVES. ARRANGE AND PAY FOR ALL PERMITS AND INSPECTION FEES	4.	ALL CONDUCTORS ARE TO BE INSTALLED IN RACEWAYS AS DESCRIBED BELOW:
	REQUIRED FOR THE WORK OF THIS TRADE. SUBMIT TO THE LOCAL ELECTRICAL INSPECTION DEPARTMENT AND/OR ELECTRICAL SUPPLY AUTHORITY ANY AND ALL DRAWINGS REQUIRED FOR PERMITS, FEES, APPROVALS, EXAMINATIONS AND SERVICES.	4.1	ON GRADE OR EXTERIOR EXPOSED SURFACE RACEWAYS: PVC CONDUIT
7.	PROVIDE ALL CUTTING AND PATCHING REQUIRED FOR THE WORK OF THIS TRADE. ALL CUTTING AND PATCHING SHALL BE PERFORMED BY QUALIFIED TRADES PERSONS. INCLUDE ALL		FROM PANELS, CONCEALED IN ACCESSIBLE CEILINGS AND INTERIOR WALLS OR IN INTERIOR CONCRETE BLOCK CONSTRUCTION: EMT RACEWAYS
8.	COSTS FOR CUTTING AND PATCHING RELATED TO THE WORK OF THIS TRADE IN THE TENDER PRICE. TOUCH-UP ALL SHOP PAINTED EQUIPMENT DAMAGED IN TRANSIT OR DURING INSTALLATION TO MATCH ORIGINAL SHOP FINISH.	4.3	B. IN METAL STUD PARTITION WALLS, BRANCH CIRCUIT WIRING FROM PANELS IN SUITE OR TENANT OCCUPANCIES, IN INTERIOR CONCRETE BLOCK WALLS, FOR FINAL DROPS TO FIXTURES IN CEILING SPACES. (LENGTH NOT TO EXCEED 3M IN THIS APPLICATION): ARMOURED CABLE (BX).
9.	AVOID ACCUMULATION OF DEBRIS AS THE WORK PROGRESSES. ON COMPLETION OF THE CONSTRUCTION AND PRIOR TO THE FINAL INSPECTION AND ACCEPTANCE BY THE OWNER, CLEAN UP AND REMOVE FROM THE SITE ALL SCRAP MATERIALS RESULTING	4.4	
10.	FROM THE WORK OF THIS TRADE. CO-ORDINATE THE WORK OF THIS TRADE WITH ALL OTHER TRADES ON THE JOB SO THAT THE WORK MAY PROGRESS	4.5	5. FOR EXISTING CONSTRUCTION WHERE EXISTING WALLS AND FINISHES ARE TO REMAIN: SURFACE METAL RACEWAYS (SMR)
11.	WITHOUT ANY DELAY. PRIOR TO THE FINAL INSPECTION, CLEAN ALL ELECTRICAL EQUIPMENT. CLEAN ALL CONSTRUCTION DUST AND DIRT FROM	4.6	INSTALLATION. COLOUR AND SIZE OF RACEWAYS TO BE CONFIRMED WITH CONSULTANT FOR THE SPECIFIC
12.	INSTALLED EQUIPMENT AT THE END OF THE JOB. UPON COMPLETION OF THE WORK, PROVIDE THE FINAL UNCONDITIONAL CERTIFICATE OF ACCEPTANCE FROM THE	5. DEVICES	ALL CONDUIT AND WIRING IS TO BE CONCEALED IN ALL FINISHED AREAS.
13.	LOCAL ELECTRICAL SAFETY AUTHORITY INSPECTION OFFICE. PROVIDE A ONE YEAR GUARANTEE ON ALL MATERIALS, AND	1.	SWITCHES:
	LABOUR FROM THE DATE OF ACCEPTANCE BY THE OWNER. COMPLETE ALL WARRANTY REGISTRATION DOCUMENTATION ON BEHALF OF THE BUILDING OWNER. SUBMIT COPIES OF COMPLETED DOCUMENTATION IN OPERATIONS AND	1.1	POLE, SINGLE THROW. (3-WAY OR 4-WAY AS NOTED ON DRAWINGS.)
14.	MAINTENANCE MANUALS. ON MULTI-PHASE FEEDERS AND PANELS, ADJUST THE PHASE	1.2	THROW. (3-WAY OR 4-WAY AS NOTED ON DRAWINGS.)
	LOADING SO AS NOT TO EXCEED A PHASE IMBALANCE OF 10%, LINE TO LINE, UNDER NORMAL OPERATING CONDITIONS OF THE FEEDER OR PANEL.	1.3	THROW. (3-WAY OR 4-WAY AS NOTED ON DRAWINGS.)
15.	SUBMIT SHOP DRAWINGS IN ELECTRONIC PDF FORMAT FOR THE FOLLOWING EQUIPMENT: BREAKERS, FIRE ALARM DEVICES, EXIT AND EMERGENCY LIGHTING UNITS, ETC. THE SHOP DRAWINGS	1.5	THROW. (3-WAY OR 4-WAY AS NOTED ON DRAWINGS.)
	SHALL BEAR THE NAME OF THE MANUFACTURER, THE MANUFACTURER'S CATALOGUE NUMBER, AND THE CONSULTANT'S DESIGNATION, ALONG WITH ALL PERTINENT INFORMATION PERTAINING TO THAT SPECIFIC PIECE OF	1.6	N/C, DOUBLE THROW, CENTER OFF.
10	EQUIPMENT.	2.	RECEPTACLES:
16.	ALL ELECTRICAL EQUIPMENT SHALL BE MOUNTED PLUMBED TRUE.	2.1	. SPEC GRADE, DUPLEX, RATED 15 AMP, 125 VAC, EEMAC 5-15R CONFIGURATION, U-GROUND.
17.	OBTAIN ONE SET OF PRINTS FOR AS-BUILT PURPOSES AND RECORD ON THESE PRINTS ALL CHANGES TO THE DESIGN DRAWINGS TO REFLECT THE ACTUAL CONSTRUCTION CONDITIONS, EQUIPMENT LOCATIONS AND EQUIPMENT SPECIFICATIONS. AT THE END OF CONSTRUCTION, AND PRIOR TO	2.2	2. ISOLATED GROUND, DUPLEX, RATED 15 AMP, 125 VAC, EEMAC 5-15R CONFIG., INSULATED, ISOLATED U-GROUND CONNECTION.
	THE FINAL INSPECTION BY THE CONSULTANT, TRANSFER AS-BUILT MARK-UPS TO AUTOCAD/REVIT AND SUBMIT AUTOCAD AND PDF FILES TO THE CONSULTANT SUBMIT FOR REVIEW. SUBMIT FINAL CAD FILES OF THE AS-BUILT DRAWINGS ON CD/USB	2.3	B. GROUND FAULT INTERRUPTING, CLASS A DUPLEX, RATED 15 AMP, 125 VAC, EEMAC 5-15R FIG., TRIP RATED FOR 4-6 MA LEAKAGE CURRENT. C/W PUSH TO TEST AND RESET BUTTONS.
	KEY. NO FINAL INSPECTION WILL BE PERFORMED UNTIL THESE DRAWINGS ARE SUBMITTED.	3.	COVER PLATES:
18.	PREPARE [THREE SETS] OF OPERATIONS AND MAINTENANCE MANUALS FOR PRESENTATION TO THE OWNER. PROVIDE COPIES OF ALL REVIEWED SHOP DRAWINGS FOR THE PROJECT,	3.1	KITCHENS.
	MANUFACTURER'S INSTALLATION INSTRUCTIONS, MANUFACTURER'S MAINTENANCE INSTRUCTIONS, AND COPIES OF ALL TEST DATA, VERIFICATION CERTIFICATES,	3.2	DEVICES IN UNFINISHED AREAS.
19.	MANUFACTURER'S WARRANTIES AND GUARANTEES, THE GUARANTEE OF THIS TRADE INDICATING START DATE AND END DATE AS WELL AS CONTRACT NUMBERS. WHERE THE WORD PROVIDE IS USED IN THESE SPECIFICATIONS	3.3	COVERPLATES TO BE OF THE SAME MANUFACTURER AS THE DEVICES. PROVIDE A TYPED LABEL ON EACH DEVICE PLATE INDICATING THE PANEL BOARD NAME AND CIRCUIT NUMBER THE DEVICE IS FED FROM.
	OR ON THE DRAWINGS, IT HAS THE MEANING "PROVIDE AND INSTALL COMPLETE WITH ALL ASSOCIATED MOUNTING HARDWARE AND CONNECTIONS".	4.	COLOUR OF DEVICES: WHITE
20.	CHANGES IN THE WORK	5.	EQUIPMENT ISOLATING DISCONNECTS: SIZE DISCONNECTING DEVICES FOR THE CURRENT CARRYING CAPACITIES OF THE EQUIPMENT TO BE ISOLATED. PROVIDE NUMBER OF ISOLATING
2	D.1. CHANGES TO THE CONTRACT REQUIRING ADDITIONS TO OR DELETIONS FROM THE WORK OF THIS DIVISION SHALL BE CARRIED OUT UPON WRITTEN REQUEST OF THE		POLES AS REQUIRED BY EQUIPMENT TO BE ISOLATED. TYPE OF ENCLOSURE AS INDICATED BELOW:
	CONSULTANT. EXTRAS TO THE CONTRACT OR CREDITS SHALL BE SUBMITTED WITH A COMPLETE COST BREAKDOWN	5.1	
	AS FOLLOWS: MATERIALS, QUANTITIES AND UNIT PRICES FOR ALL EQUIPMENT REQUIRED OR DELETED. UNIT MAN HOURS TOTAL MATERIAL COST. TOTAL MAN HOURS. HOURLY BATE (REFER TO SUDDI EMENTABLY CONDITIONS AND	5.2	
	RATE. (REFER TO SUPPLEMENTARY CONDITIONS AND GENERAL CONTRACT). TOTAL OVERHEAD AND PROFIT. (REFER TO SUPPLEMENTARY CONDITIONS AND GENERAL CONTRACT).	5.4	EEMAC TYPE 4. FOR HIGH DUST CONCENTRATION OF NON-IGNITABLE DUST-
SERVIO	CE AND DISTRIBUTION	5.5	EEMAC TYPE 5. MANUFACTURERS: CUTLER HAMMER - EATON, SCHNEIDER
1.	PROVIDE MODIFICATIONS TO DISTRIBUTION SYSTEM AS DETAILED ON THE DRAWINGS.		CANADA, SIEMENS
•		6.	ALL DEVICES OF THE SAME TYPE, SIZE AND RATING ARE TO BE

- ALL DEVICES OF THE SAME TYPE, SIZE AND RATING ARE TO BE ACCEPTABLE MANUFACTURERS FOR DISTRIBUTION EQUIPMENT OF THE SAME MANUFACTURER THROUGHOUT THE PROJECT.
- INCLUDE: EATON-CUTLER HAMMER, SCHNEIDER CANADA, GENERAL ELECTRIC AND SIEMENS.
- FUSES SHALL BE BUSS OR APPROVED EQUAL, OF THE CLASS, TYPE AND AMPERE RATING AS SHOWN ON THE DRAWINGS.

- LABEL ALL DISCONNECT SWITCHES, STARTERS, AND PANELS TO CLEARLY INDICATE EQUIPMENT CONTROLLED OR AREA SERVED. INDICATE FUSE SIZE AND TYPE ON ALL FUSED DISCONNECTS.
- PROVIDE CIRCUIT BREAKERS WITH AMPERE CAPACITY, NUMBER 5. OF POLES, SHORT CIRCUIT RATING, ETC., AS SPECIFIED IN PANEL SCHEDULE OR SINGLE LINE DIAGRAM. SHORT CIRCUIT RATING TO MATCH OR EXCEED FAULT CURRENT RATING OF THE PANEL IN WHICH THEY ARE INSTALLED. NEW BREAKERS MUST MATCH MANUFACTURER OF PANEL IN WHICH THEY ARE INSTALLED. MOUNTING TO BE AS INDICATED.

ALL OTHER CONTROLS (INCLUDING ELECTRICAL SWITCHES, 7.2. INTERCOM SWITCHES, ETC.) SHALL BE MOUNTED NOT LESS THAN 900MM AND NOT MORE THAN 1100MM ABOVE THE FINISHED FLOOR.

MOUNTING HEIGHTS - BARRIER FREE DESIGN (OBC LATEST)

1200MM ABOVE THE FINISHED FLOOR

PULL STATIONS AND THERMOSTATS SHALL BE MOUNTED AT

WIRING FOR OTHER TRADES

7.1.

PROVIDE POWER WIRING FOR ELECTRICALLY OPERATED EQUIPMENT OF OTHER TRADES AS NOTED ON THE DRAWINGS

GREATER. 100VAC CONTRACTOR. RENOVATIONS ON EXISTING BUILDING 4. DRAWINGS. LIGHTING LIGHTING CONTROL: LIGHT FIXTURES. EXIT SIGNS:

SYSTEM

OR DEFINED IN THIS SPECIFICATION. PROVIDE ALL STARTERS AND DISCONNECT SWITCHES FOR A COMPLETE AND OPERATING

PROVIDE POWER AND WIRING TO THE ELECTRICALLY OPERATED EQUIPMENT AS DETAILED IN WIRING FOR MECHANICAL EQUIPMENT SCHEDULE. THIS LIST DOES NOT DETAIL THE SCOPE OF WORK FOR EACH PIECE OF EQUIPMENT. CO-ORDINATE WITH MECHANICAL CONTRACTOR FOR THE EXACT POWER REQUIREMENTS OF THE EQUIPMENT TO BE SUPPLIED TO THE PROJECT. DO NOT PROCEED WITH THE INSTALLATION OF ANY OF THE ELECTRICAL ROUGH-IN UNTIL THE POWER SUPPLY REQUIREMENTS AND THE POINTS OF CONNECTION HAVE BEEN ESTABLISHED FROM THE SHOP DRAWINGS FOR THE EQUIPMENT OF MECHANICAL CONTRACTOR.

PROVIDE POWER WIRING TO ALL CONTROL DEVICES SUPPLIED BY MECHANICAL CONTRACTOR AND OPERATING AT 100 VAC OR

PROVIDE CONTROL WIRING FOR ALL CONTROL DEVICES WITH OPERATING VOLTAGES OF THE CONTROLS GREATER THAN

PROVIDE RACEWAYS/CONDUITS FOR ALL CONTROL WIRING AS IDENTIFIED ON THE DRAWINGS FOR USE BY MECHANICAL CONTRACTOR. PROVIDE OUTLET BOXES AS DIRECTED BY MECHANICAL CONTRACTOR FOR ALL TERMINAL POINTS IN THE CONTROL SYSTEM. CO-ORDINATE WITH MECHANICAL

RENOVATIONS SHALL BE MADE ON THE EXISTING BUILDING AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. REMOVE EXISTING LUMINARIES AS INDICATED ON DRAWINGS. ALL EQUIPMENT REMOVED AND NOT REUSED SHALL REMAIN THE PROPERTY OF THE OWNER UNLESS SPECIFICALLY NOTED OTHERWISE. ALL EQUIPMENT INSTALLED IN RENOVATED AREAS SHALL BE NEW. ELECTRICAL TRADE WILL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR ELECTRICAL INSTALLATION. ALL CONDUIT SHALL BE INSTALLED CONCEALED IN FINISHED AREAS UNLESS SPECIFICALLY NOTED OTHERWISE.

NEW CONDUCTORS SHALL BE INSTALLED TO THE NEAREST OUTLET AS REQUIRED FOR EQUIPMENT THAT IS RELOCATED. INSTALLATION OF JUNCTION BOXES FOR SPLICING PURPOSES SHALL NOT BE PERMITTED UNLESS SPECIFICALLY CALLED FOR.

PROVIDE ALL CONDUCTORS REQUIRED TO RECONNECT EXISTING CIRCUITS WHERE REQUIRED THAT MAY BE DISRUPTED DUE TO RENOVATIONS ON THE EXISTING FLOOR.

PROVIDE NEW BREAKERS WHERE REQUIRED IN EXISTING PANELS TO PICK-UP ADDITIONAL CIRCUITS INDICATED ON THE

PROVIDE FIXTURES COMPLETE WITH ALL ACCESSORIES MOUNTING HARDWARE, AND LAMPS AS SPECIFIED IN THE FIXTURE SCHEDULE OR AS APPROVED BY OWNERS AS AN EQUAL FIXTURE COMPLETE WITH MIN. 5 YEAR WARRANTY.

PRODUCTS OF EQUAL QUALITY BY ALTERNATE MANUFACTURERS SUCH AS LITHONIA, SIGNIFY, COOPER, HUBBELL, AND CREE ARE ALSO ACCEPTABLE. PROVIDE PHOTOMETRIC CALCULATIONS ALONG WITH ALTERNATE FIXTURE SELECTIONS TO THE ENGINEER FOR REVIEW AT LEAST TWO FULL BUSINESS DAYS PRIOR TO TENDER CLOSING.

LUMINAIRES TO BE SUPPORTED FROM THE STRUCTURE THROUGH THE USE OF APPROVED CHAINS TO MEET THE REQUIREMENTS OF THE OBC. SUPPORT FROM MECHANICAL OR ELECTRICAL SERVICES IS NOT PERMITTED.

INVESTIGATE ON SITE AND CONFIRM IF EXISTING LIGHTING CONTROLS CAN BE REUSED TO CONTROL NEW FIXTURES AS SPECIFIED AND REPORT TO CONSULTANT ANY THAT ARE NOT SUITABLE WITH COST TO REPLACE.

WHERE REQUIRED AND AUTHORIZED BY CHANGE ORDER REPLACE EXISTING LIGHTING CONTROLS WITH NEW TO SUIT NEW

PROVIDE EXIT SIGNS AND WIRE FROM EXISTING CIRCUIT SERVING EXISTING EXIT SIGNS. IF NECESSARY, PROVIDE A SEPARATE CIRCUIT FROM NEAREST EXISTING PANEL USING A SEPARATE RACEWAY SYSTEM USED FOR NO OTHER PURPOSE. PROVIDE LOCK-ON DEVICE ON CIRCUIT BREAKER.

CONNECT THE EMERGENCY SOCKET TO THE NEAREST EMERGENCY LIGHTING BATTERY UNIT.

EXIT FIXTURES TO CONSIST OF GREEN PICTOGRAM AND WHITE GRAPHIC SYMBOL MEETING THE VISIBILITY AND DIMENSION SPECIFICATIONS AS PER ONTARIO BUILDING CODE 2012, SECTION 3.4.5.1. DC OPERATING VOLTAGE TO MATCH EXISTING EMERGENCY BATTERY VOLTAGE.

ACCEPTABLE MANUFACTURERS INCLUDE: DUALLITE, EMERGI-LITE, LUMACELL, LITHONIA, BEGHELLI, AIMLITE.

EQUIPMENT DISPOSAL AND DECOMMISSIONING:

THE CONTRACTOR WILL TAKE ALL NECESSARY STEPS TO HAVE ELECTRICAL EQUIPMENT THAT WAS REMOVED OR REPLACED AS PART OF ANY WORK DISPOSED OF OR DECOMMISSIONED IN ACCORDANCE WITH APPROPRIATE DISPOSAL OR DECOMMISSIONING PROCESSES, APPLICABLE LAWS, AND IN ACCORDANCE WITH COMMERCIALLY REASONABLE ENVIRONMENTAL PRACTICES.

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THE CONTRACTOR MUST SUBMIT WRITTEN PROOF OR EVIDENCE OR ACKNOWLEDGEMENT THAT THE DISPOSAL OF ALL MATERIALS WAS COMPLETED IN ACCORDANCE WITH ALL CURRENT DISPOSAL REQUIREMENTS.

ACCEPTABLE DOCUMENTS: INVOICE OR DISPOSAL CERTIFICATES FROM THE DISPOSAL FACILITY. THIS DOCUMENTATION MUST BE ON THE DISPOSAL FACILITY'S

LETERHEAD, INVOICE OR CERTIFICATE. 3.1. MINIMUM INFORMATION REQUIRED:

3.1.1. BUILDING NAME AND ADDRESS EQUIPMENT DESCRIPTION (LAMPS, MOTORS, COOLING EQUIPMENT, ETC.)

EQUIPMENT QUANTITIES 3.1.4. DISPOSAL FACILITY NAME

2.1.

2.1.1.

3.1.2.

3.1.3.

THE CONTRACTOR MUST SUBMIT A COMPLETED RETROFIT PROGRAM DISPOSAL FORM IF THE DISPOSAL INVOICES OR CERTIFICATES DO NOT PROVIDE ENOUGH INFORMATION TO VERIFY THE EQUIPMENT DETAILS AS REPORTED IN THE INCENTIVE APPLICATION. REFER TO ATTACHED EXAMPLE: APPENDIX C, FOR AN EXAMPLE OF A DISPOSAL FORM.

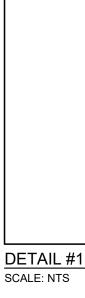
DATA RACEWAYS, CABLING, TERMINATIONS AND PATCH PANEL SYSTEM:

- PROVIDE TELEPHONE, DATA AND TELEPHONE/DATA OUTLETS AS INDICATED ON THE ELECTRICAL FLOOR PLANS. PROVIDE ONE 3/4" EMT RACEWAY FROM THE OUTLET LOCATION SHOWN TO AN ACCESSIBLE CEILING SPACE ABOVE THE OUTLET. OUTLET BOXES TO BE SINGLE GANG DEEP BOXES WHEREVER POSSIBLE.
- PROVIDE CABLE MANAGEMENT HARDWARE IN THE CEILING SPACE ABOVE THE LIGHTING SYSTEMS. ROUTE AT HIGH LEVEL BELOW THE BUILDING ROOF JOIST/TRUSS SYSTEMS. ROUTE WIRING TO FOLLOW BUILDING LINES.
- PROVIDE WIRING FOR DATA OUTLETS INDICATED. PROVIDE 4 PAIR, 24 AWG, SOLID COPPER, TWISTED PAIR, CATEGORY 5E CLASSIFICATION, WIRING WITH FT 4 INSULATION RATING WHERE WIRING IS EXPOSED WITHIN THE BUILDING. WHERE THE WIRING IS LOCATED IN A RETURN AIR CEILING PLENUM THE INSULATION MUST BE CLASSIFIED AS FT6 PLENUM RATED CABLE. TERMINATE THE CABLE AT THE OUTLET IN THE COMMUNICATIONS PORT WITH AN RJ45 FEMALE JACK. OUTLET FACEPLATES - NORDX/CDT, 1 PORT FLUSH OUTLET, AX100335, NORDX/CDT, 2 PORT, FLUSH OUTLET, AX100343, OR EQUAL.
- PROVIDE ALL TESTING OF THE INSTALLED WIRING SYSTEMS TO THE REQUIREMENTS OF A A CAT 5E FOR THE DATA COMMUNICATIONS. TESTING SHALL BE BY A FACTORY TRAINED, APPROVED AND CERTIFIED INSTALLER. PROVIDE CERTIFICATION DOCUMENTATION TO TENANT ON CLOSE OF CONTRACT.
- PROVIDE AN AS-BUILT DRAWING FOR THE COMPLETE INSTALLATION WITH OUTLET REFERENCE NUMBERS INDICATED ON THE DRAWINGS AT EACH OUTLET LOCATION. PROVIDE A VOICE OUTLET AND A DATA OUTLET AT EACH TELE/DATA OUTLET LOCATION INDICATED ON THE PLANS.
- GENERAL NOTES (APPLICABLE TO ALL DRAWINGS)
- ALL POWER AND SYSTEMS TO BE MADE SAFE AND DISCONNECTED, AS AND WHEN, AND TO THE EXTENT REQUIRED, TO FACILITATE WITH THE DEMOLITION.
- ENSURE THAT ALL ELECTRICAL, LIFE SAFETY SERVICES, AND SERVICES FOR EXISTING EQUIPMENT, IN AREAS OUTSIDE THE AREAS OF THIS WORK, THAT ARE REQUIRED TO REMAIN IN SERVICE, SHALL DO SO.
- ANY ELECTRICAL EQUIPMENT ON WALLS OR CEILINGS THAT WILL BE DEMOLISHED AND REBUILT TO BE REMOVED AND REPLACED.
- WHEN DEMOLISH AND/OR MAKING SAFE EXISTING ELECTRICAL WORK, ENSURE THAT IT INCLUDES ALL WIRING BACK TO THE ASSOCIATED PANEL BOARD OR CONTROL PANEL.
- THOROUGHLY INSPECT AND REFURBISH ALL EXISTING REUSED AND/OR RELOCATED EQUIPMENT, TO ENSURE CORRECT OPERATION WHEN PUT BACK INTO SERVICE AND TO MEET ALL APPLICABLE OESC REQUIREMENTS.
- WORK SHALL BE CARRIED OUT WITH A MINIMUM OF NOISE, DUST AND DISTURBANCE.
- PROVIDE NECESSARY TOOLS AND CLEAN UP EQUIPMENT TO CARRY OUT THE REQUIRED. OBTAIN OWNER'S PERMISSION FOR THE USE OF EXISTING ELECTRICAL OUTLETS.
- PROVIDE DAILY CLEAN-UP AND PROPER DISPOSAL OF DEBRIS GENERATED BY DAILY OPERATION. ON COMPLETION OF THE WORK, REMOVE ALL TOOLS, SURPLUS MATERIALS AND WASTE MATERIALS, AND MAINTAIN THE PREMISES LEFT IN A CLEAN, PERFECT CONDITION.
- DISCONNECT AND REMOVE ANY ELECTRICAL EQUIPMENT IN AREAS THAT CAUSE INTERFERENCES DURING RENOVATION WORK. ALL EQUIPMENT SHALL BE REPLACED AND RECONNECTED UPON COMPLETION OF RENOVATION WORK.
- ALL EXISTING-TO-BE-REMOVED ELECTRICAL DEVICES/EQUIPMENT SHOWN ON ELECTRICAL DRAWINGS TO BE DISCONNECTED AND REMOVED IN THEIR ENTIRETIES. REMOVE ALL UNUSED JB'S /WIRING /CONDUIT BACK TO SOURCE PANEL.
- WHERE NOT ACCESSIBLE, WIRING ONLY SHALL BE REMOVED AND CONDUIT TO REMAIN PATCH HOLES AND MAKE GOOD WHERE APPLICABLE.
- ELECTRICAL EQUIPMENT BEING REMOVED AND NOT BEING REUSED WILL BE STORED ON SITE AND REMAIN THE PROPERTY OF THE OWNER. ANY SUCH EQUIPMENT THE OWNER DOES NOT WISH TO RETAIN WILL BE REMOVED FROM SITE AND DISPOSED OF BY THIS TRADE.
- DRAWINGS DO NOT SHOW ALL EXISTING ELECTRICAL DEVICES. CONFIRM ON SITE FOR EXACT LOCATION AND QUANTITY OF ALL EXISTING ELECTRICAL DEVICES IN RENOVATED AREAS. MAKE ALL PROVISIONS TO REMOVE AND/OR RELOCATE AND RECONNECT EXISTING DEVICES AS REQUIRED. ADVISE THE CONSULTANT OF ANY DISCREPANCY FROM SITE CONDITIONS.
- LOCATION OF EXISTING ELECTRICAL LIGHT FIXTURES, DEVICE/EQUIPMENT SHOWN IS APPROXIMATE ONLY. CONFIRM THE EXACT LOCATIONS ON SITE.
- X-RAY (SCAN) ALL WALL/FLOOR PENETRATIONS. COORDINATE INSTALLATION WITH OWNER & EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
- THE REUSE OF EXISTING WIRING AND CONDUIT PERMITTED WHERE IN GOOD CONDITION - SUBJECT TO NEW CODE COMPLIANCE AND MEGGER TEST.
- COORDINATE WITH OWNER'S REPRESENTATIVE FOR ANY ELECTRICAL SYSTEMS SHUT DOWN PRIOR TO ANY WORK/ACTIVITIES. PROVIDE ANY DISCREPANCIES TO THE CONSULTANT FOR REVIEW AND APPROVAL.
- IN GENERAL, ALL NECESSARY CUTTING AND PATCHING FOR THE ELECTRICAL WORK SHALL BE PROVIDED BY THE APPROPRIATE TRADE AT THE EXPENSE OF THE CONTRACTOR UNLESS INDICATED OTHERWISE ON THE DRAWINGS. HOLES THROUGH EXTERIOR WALLS AND ROOF ARE TO BE PROPERLY FLASHED AND MADE WEATHERPROOF. REPAIR ANY DAMAGE CAUSED BY THE ELECTRICAL TRADE TO EXISTING BUILDINGS OR EQUIPMENT, ETC., TO THE CONSULTANT SATISFACTION. IN GENERAL, PAINTING OF ELECTRICAL WORK AND PATCHES AS REQUIRED WILL BE PROVIDED BY THE GENERAL CONTRACTOR.

FIXTURE TAG	DESCRIPTION AND MODEL SERIES	INPUT	LIGHT SOURCE	MOUNTING
AA	1x4 LOW PROFILE RECESSED TROFFER, 0-10V DIMMING.	120V 18.5W	LED 2000L 4000K 80CRI	RECESSED CEILING (T-BAR)
	LITHONIA: GTL SERIES		00011	
AB	2x4 LOW PROFILE RECESSED TROFFER, 0-10V DIMMING.	120V 23.3W	LED 3000L 4000K 80CRI	RECESSED CEILING (T-BAR)
	LITHONIA: GTL SERIES		000111	
BA	96"x8.25"x1.75" SUSPENDED LINEAR LED FIXTURE C/W 20 INDIRECT/ 80 DIRECT RATIO, 0-10V DIMMING. SUPPORT IN CONTINUOUS LENGTHS WHERE SHOWN END TO END WITH FLAT CAP AT EACH END. COLOUR BY ARCHITECT.	120V 8W/FT	LED 1300L/FT 4000K 80CRI	CABLE SUSPENDED TO 8'-4" AFF THOUGH T-BAI CEILING
	MARK ARCHITECTURAL LIGHTING: PLN8 SERIES			OLILINO
BB	48"x8.25"x1.75" SUSPENDED LINEAR LED FIXTURE C/W 20 INDIRECT/ 80 DIRECT RATIO, 0-10V DIMMING. SUPPORT IN CONTINUOUS LENGTHS WHERE SHOWN END TO END WITH FLAT CAP AT EACH END. COLOUR BY ARCHITECT.	120V 8W/FT	LED 1300L/FT 4000K 80CRI	CABLE SUSPENDED TO 8'-4" AFF THOUGH T-BAI CEILING
	MARK ARCHITECTURAL LIGHTING: PLN8 SERIES			
CA	HIGH EFFICIENCY GENERAL DISTRIBUTION LED HIGH BAY APROX. 13"x26"x3" C/W FROSTED ACRYLIC LENS AND WIRE GUARD.	120V 100W	LED 18000L 4000K 80CRI	SURFACE MOUNT WITH BRACKETS TO EXISTING
	LITHONIA: IBG SERIES			SUSPENDED CHANNEL
NOTES:				

ELECTRICAL PROJECT SCOPE:

- REPLACEMENT OF ALL EXISTING EXIT SIG APPROVED RUNNING MAN EXIT SIGNS AS DRAWINGS & SPECIFICATIONS.
- REPLACEMENT OF ALL EXISTING 1X4 LIGH CORRIDORS WITH T-BAR CEILING AS DES & SPECIFICATIONS.
- REPLACEMENT OF LIGHT FIXTURES IN TH MAIN OFFICE AREA AS DESCRIBED IN DRA SPECIFICATIONS.
- RENOVATIONS TO ROOM 196M AS DESCR SPECIFICATIONS.
- SEPARATE PRICE: REPLACEMENT OF EXI IN CLASSROOMS AS DESCRIBED IN DRAV SPECIFICATIONS.

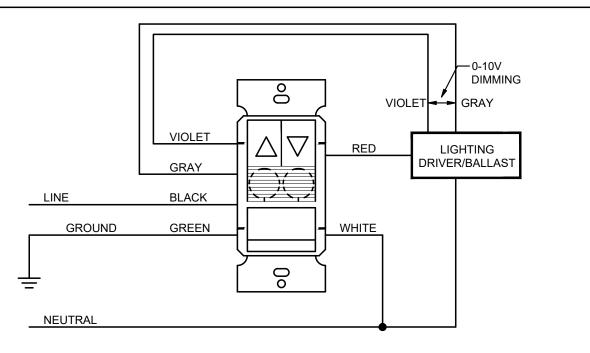


• REPAIR ANY DAMAGE CAUSED BY THE ELECTRICAL TRADE TO EXISTING BUILDINGS OR EQUIPMENT, ETC., TO THE CONSULTANT SATISFACTION.

GNS WITH NEW CSA S DESCRIBED IN
HT FIXTURES IN SCRIBED IN DRAWINGS
HE GYMNASIUMS AND AWINGS &
RIBED IN DRAWINGS &
KISTING LIGHT FIXTURES WINGS &

	ELECTRICAL LEGEND		
SYMBOL	DESCRIPTION		
	RECTANGULAR LIGHT FIXTURE		
	SUSPENDED / UP & DOWN LIGHT FIXTURE		
٢	OCCUPANCY SENSOR DIMMER SWITCH		
Φ	DUPLEX RECEPTACLE		
∇	DATA OUTLET		
EXIT	EXIT SIGN (PRE-2012 OBC)		
<u>た</u> <i>大</i> > 〈た	EXIT SIGN (CURRENT OBC)		
- x x	DEMOLITION		
	EXISTING		
	NEW		
EX	EXISTING TO REMAIN		
REM	REMOVE EXISTING		
#D,#V	NUMBER OF D-DATA JACKS, V-VOICE JACKS		
VP	VANDAL-PROOF		

LIGHTING CONTROL LEGEND					
SYMBOL	DESCRIPTION	MODEL # (120V)			
•	DUAL-TECH, DIMMING OCCUPANCY SENSOR SWITCH	WATTSTOPPER: DW-311			



DETAIL #1 - WALL OCCUPANCY SENSOR SWITCH 0-10V DIMMING WIRING DIAGRAM

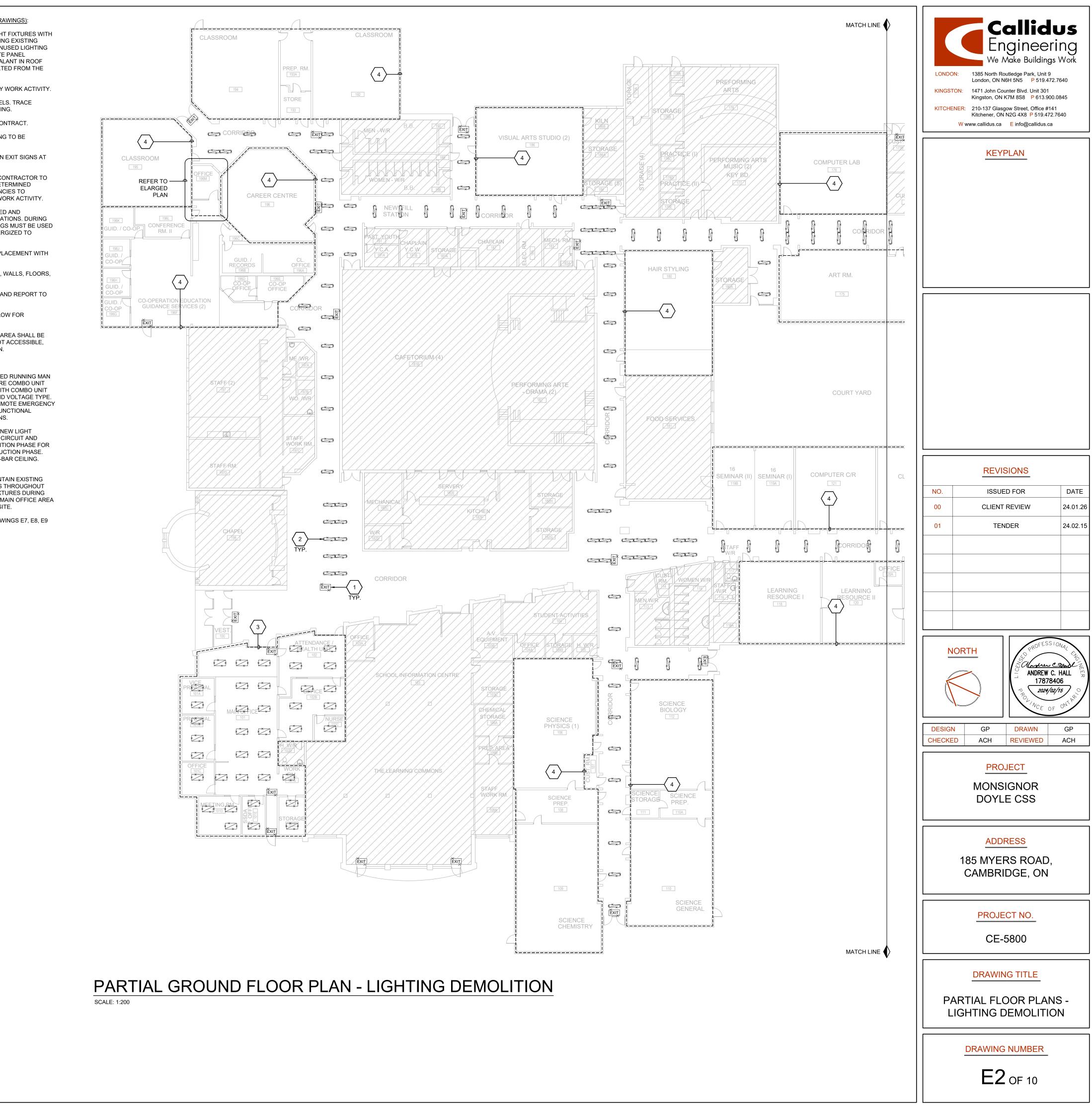
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<u>ADDRESS</u> 185 MYERS ROAD, CAMBRIDGE, ON							
PROJECT NO. CE-5800							
DRAWING TITLE ELECTRICAL LEGEND, SCHEDULES, DETAILS AND SPECIFICATIONS							
E1 OF 10							

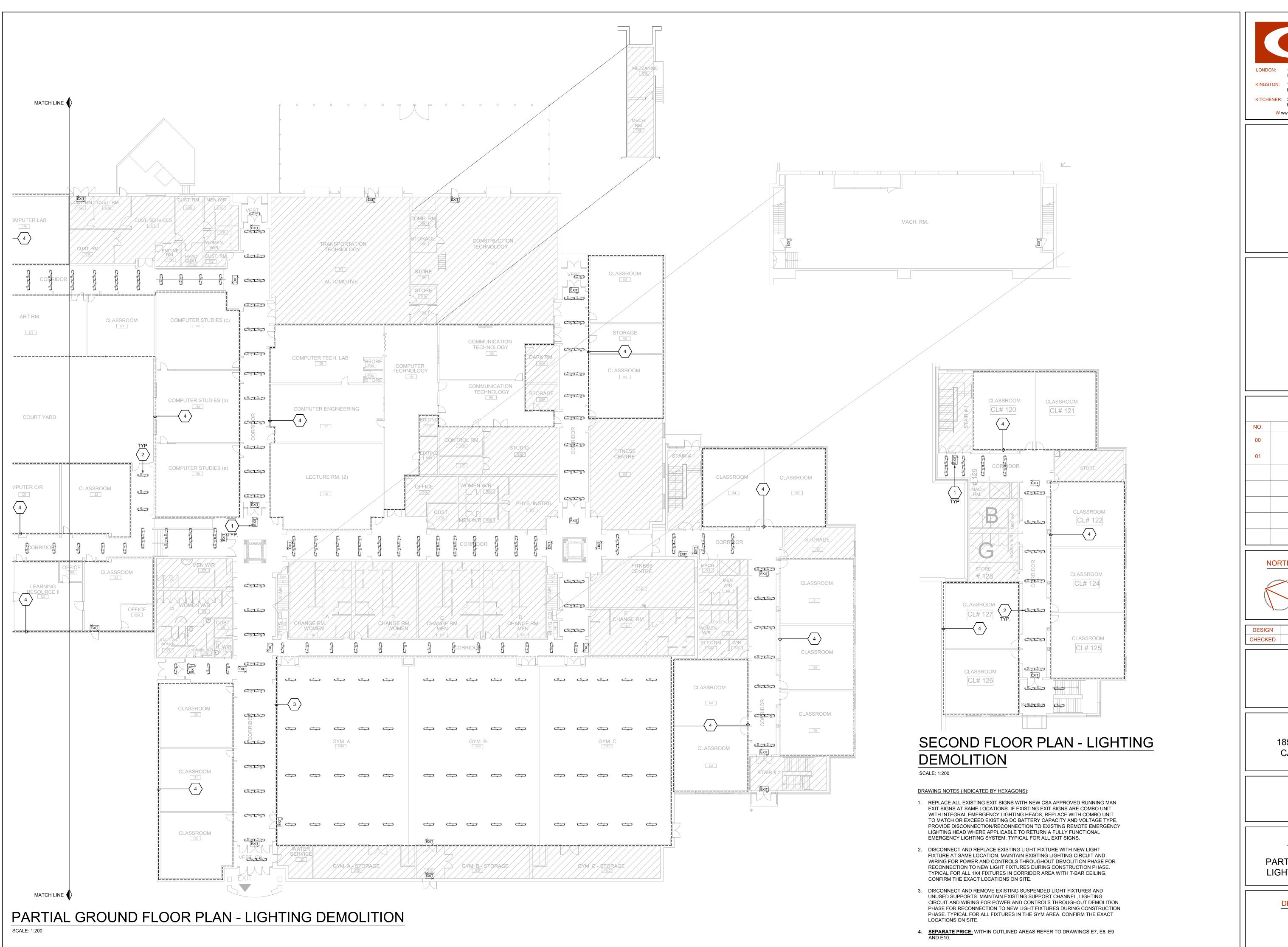
GENERAL DRAWING NOTES (APPLICABLE TO ALL ELECTRICAL DRAWINGS):

- FOR ALL AREAS IN THIS CONTRACT, REPLACE EXISTING LIGHT FIXTURES WITH NEW AT SAME LOCATIONS AS SHOWN AND WHILE MAINTAINING EXISTING MOUNTING HEIGHT. UTILIZE EXISTING CIRCUITS. REMOVE UNUSED LIGHTING CIRCUITS AND WIRING BACK TO SOURCE PANEL AND UPDATE PANEL DIRECTORIES TO REFLECT CIRCUIT CHANGES. PROVIDE SEALANT IN ROOF DECK CEILING WHERE THERE ARE OPENINGS/HOLES RESULTED FROM THE REMOVAL.
- REFER TO ARCHITECTURAL SPECIFICATION REGARDING ANY WORK ACTIVITY.
- ALL LIGHT FIXTURES SHOWN ARE FED FROM EXISTING PANELS. TRACE EXISTING CIRCUITS TO VERIFY ON SITE PRIOR TO PROCEEDING.
- HATCHED AREAS ARE OUTSIDE SCOPE OF WORK OF THIS CONTRACT.
- UNLESS NOTED OTHERWISE, ALL EXISTING NORMAL LIGHTING TO BE REPLACED WITH NEW IN INDICATED AREAS.
- REPLACE ALL EXISTING EXIT SIGNS WITH NEW RUNNING MAN EXIT SIGNS AT SAME LOCATIONS.
- NOT ALL EXISTING LIGHTING AND CONTROLS ARE SHOWN. CONTRACTOR TO CONFIRM ON SITE. EXTENT OF DEMOLITION WORK TO BE DETERMINED THROUGH DETAILED SITE REVIEW. REPORT ANY DISCREPANCIES TO CONSULTANT FOR REVIEW AND APPROVAL PRIOR TO ANY WORK ACTIVITY.
- ELECTRICAL EQUIPMENT TO BE REMOVED MUST BE ISOLATED AND DISCONNECTED AT THE SOURCE PRIOR TO REMOVAL OPERATIONS. DURING ISOLATION AND DISCONNECTION PROCEDURES DANGER TAGS MUST BE USED TO IDENTIFY ANY FEEDERS OR EQUIPMENT REMAINING ENERGIZED TO ACCOMMODATE NEW CONSTRUCTION.
- COORDINATE EXISTING LIGHT FIXTURES REMOVAL AND REPLACEMENT WITH OTHER TRADES IF REQUIRED.
- PROTECT ALL INTERIOR AND EXTERIOR FINISHES; CEILINGS, WALLS, FLOORS, ETC. FROM DAMAGE DUE TO LIGHTING SYSTEM WORK.
- INSPECT EXISTING CEILING FOR SIGNS OF DETERIORATION AND REPORT TO CONSULTANT.
- EXISTING FIXTURES THAT ARE TO REMAIN BE CLEANED. ALLOW FOR REPLACEMENT OF BROKEN LENSES, LAMPS OR BALLASTS.
- ALL EXISTING DEAD WIRING AND CONDUITS IN RENOVATED AREA SHALL BE REMOVED IN ITS ENTIRETY WHERE ACCESSIBLE. WHERE NOT ACCESSIBLE, WIRING ONLY SHALL BE REMOVED AND CONDUIT TO REMAIN.

DRAWING NOTES (INDICATED BY HEXAGONS):

- 1. REPLACE ALL EXISTING EXIT SIGNS WITH NEW CSA APPROVED RUNNING MAN EXIT SIGNS AT SAME LOCATIONS. IF EXISTING EXIT SIGNS ARE COMBO UNIT WITH INTEGRAL EMERGENCY LIGHTING HEADS, REPLACE WITH COMBO UNIT TO MATCH OR EXCEED EXISTING DC BATTERY CAPACITY AND VOLTAGE TYPE. PROVIDE DISCONNECTION/RECONNECTION TO EXISTING REMOTE EMERGENCY LIGHTING HEAD WHERE APPLICABLE TO RETURN A FULLY FUNCTIONAL EMERGENCY LIGHTING SYSTEM. TYPICAL FOR ALL EXIT SIGNS.
- 2. DISCONNECT AND REPLACE EXISTING LIGHT FIXTURE WITH NEW LIGHT FIXTURE AT SAME LOCATION. MAINTAIN EXISTING LIGHTING CIRCUIT AND WIRING FOR POWER AND CONTROLS THROUGHOUT DEMOLITION PHASE FOR RECONNECTION TO NEW LIGHT FIXTURES DURING CONSTRUCTION PHASE. TYPICAL FOR ALL 1X4 FIXTURES IN CORRIDOR AREA WITH T-BAR CEILING. CONFIRM THE EXACT LOCATIONS ON SITE.
- 3. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES. MAINTAIN EXISTING LIGHTING CIRCUIT AND WIRING FOR POWER AND CONTROLS THROUGHOUT DEMOLITION PHASE FOR RECONNECTION TO NEW LIGHT FIXTURES DURING CONSTRUCTION PHASE. TYPICAL FOR ALL 2X4 FIXTURES IN MAIN OFFICE AREA WITH T-BAR CEILING. CONFIRM THE EXACT LOCATIONS ON SITE.
- 4. <u>SEPARATE PRICE:</u> WITHIN OUTLINED AREAS REFER TO DRAWINGS E7, E8, E9





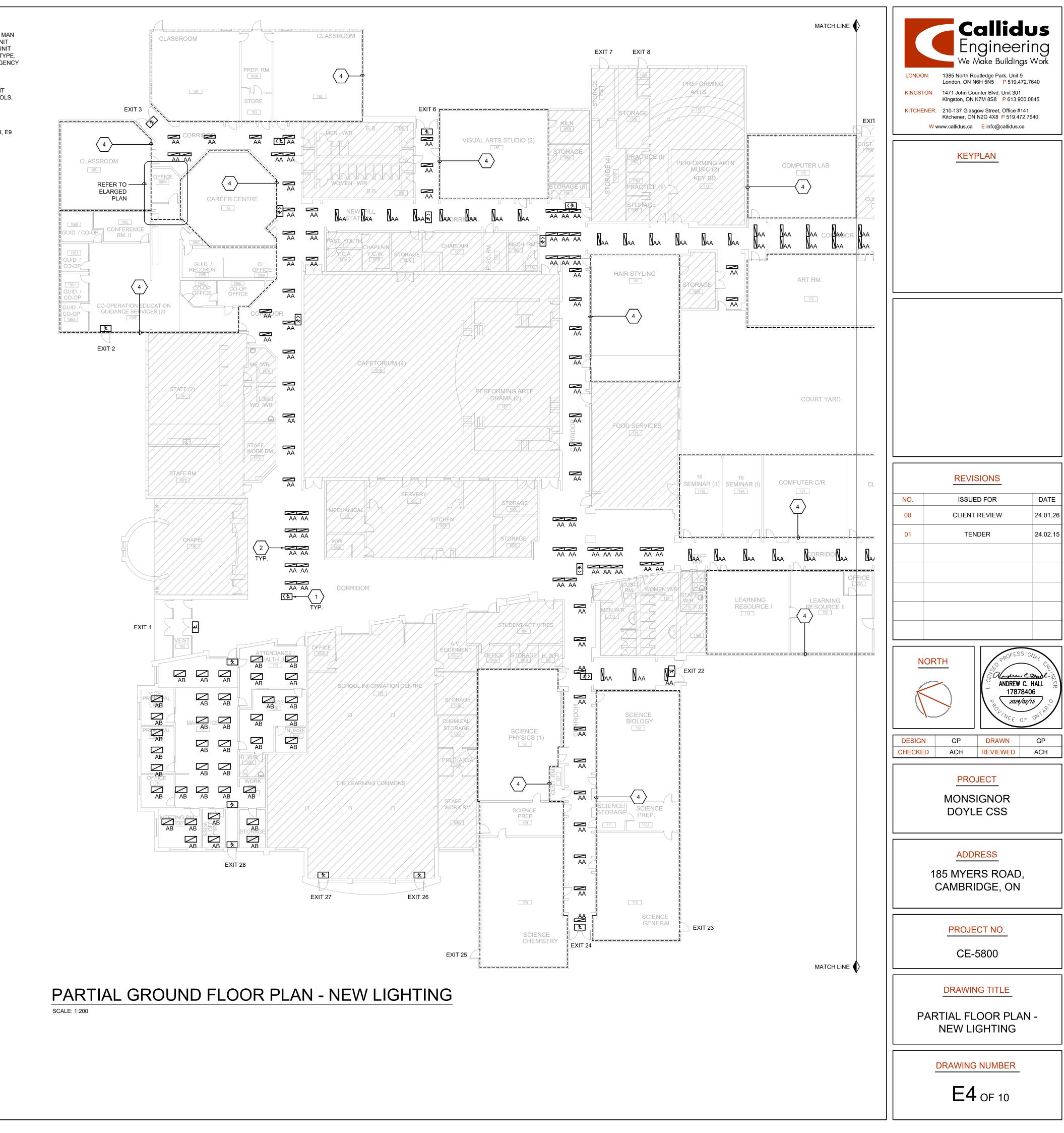
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E3 OF 10					

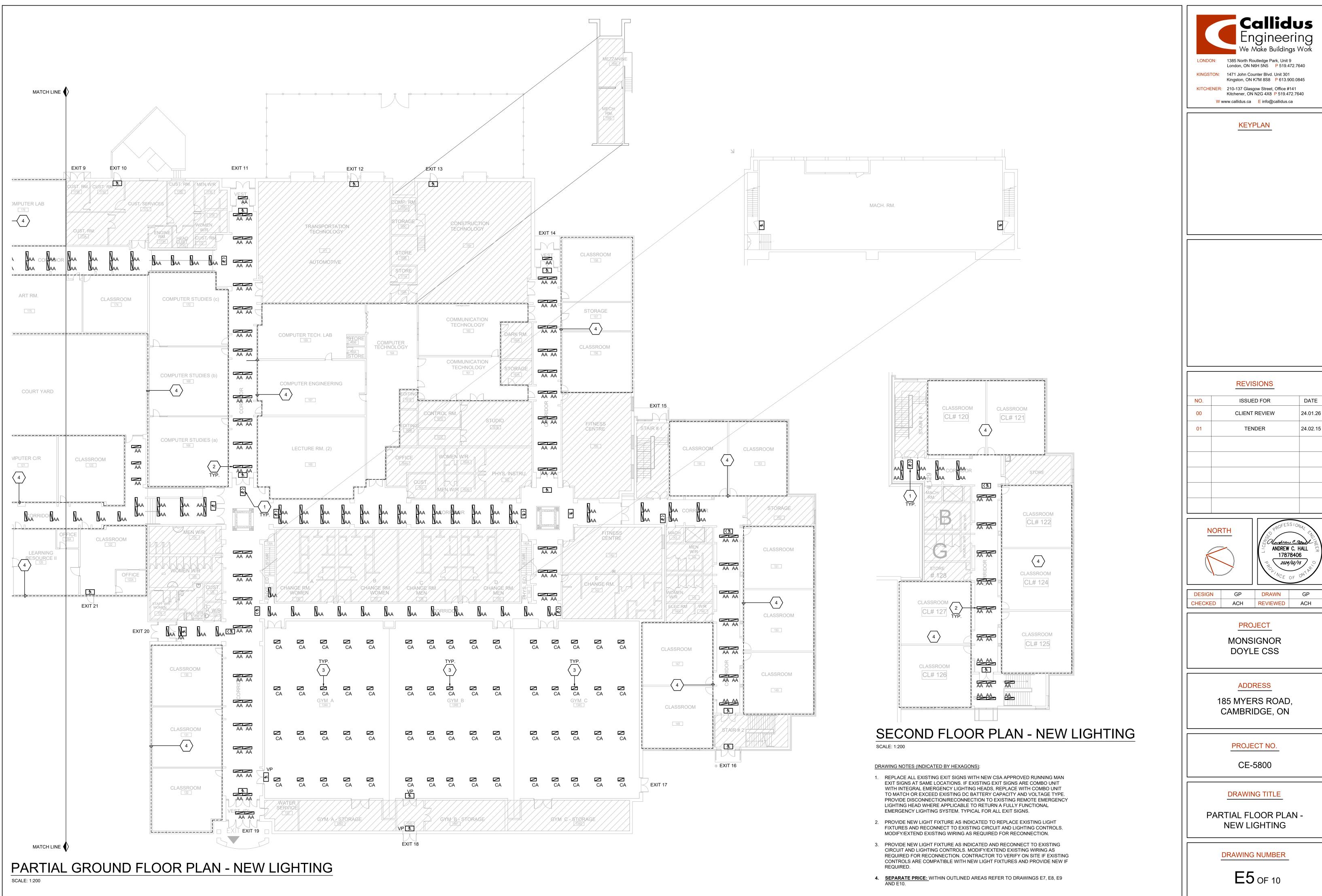
DRAWING NOTES (INDICATED BY HEXAGONS):

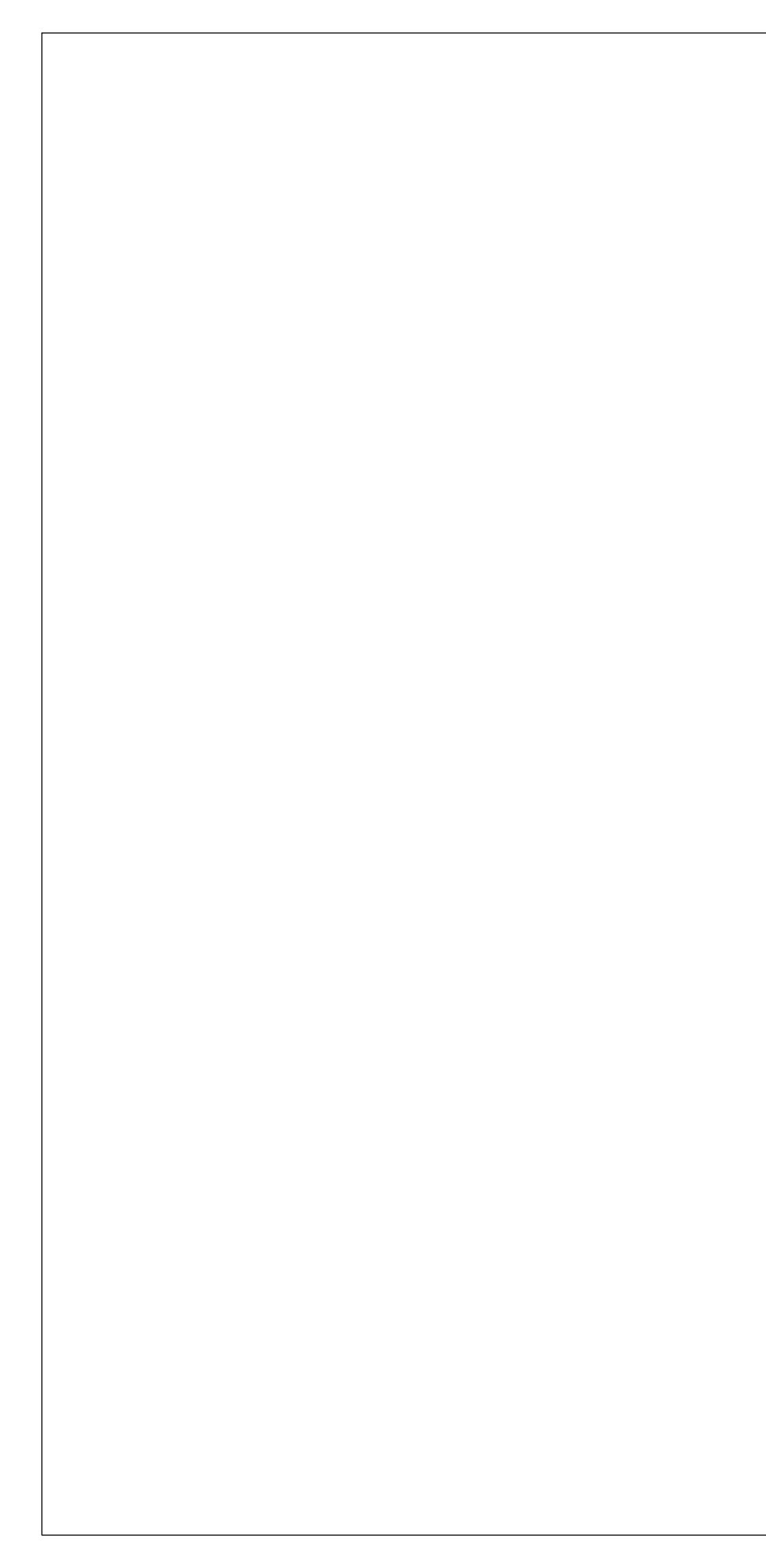
- 1. REPLACE ALL EXISTING EXIT SIGNS WITH NEW CSA APPROVED RUNNING MAN EXIT SIGNS AT SAME LOCATIONS. IF EXISTING EXIT SIGNS ARE COMBO UNIT WITH INTEGRAL EMERGENCY LIGHTING HEADS, REPLACE WITH COMBO UNIT TO MATCH OR EXCEED EXISTING DC BATTERY CAPACITY AND VOLTAGE TYPE. PROVIDE DISCONNECTION/RECONNECTION TO EXISTING REMOTE EMERGENCY LIGHTING HEAD WHERE APPLICABLE TO RETURN A FULLY FUNCTIONAL EMERGENCY LIGHTING SYSTEM. TYPICAL FOR ALL EXIT SIGNS.
- 2. PROVIDE NEW LIGHT FIXTURE AS INDICATED TO REPLACE EXISTING LIGHT FIXTURES AND RECONNECT TO EXISTING CIRCUIT AND LIGHTING CONTROLS. MODIFY/EXTEND EXISTING WIRING AS REQUIRED FOR RECONNECTION.

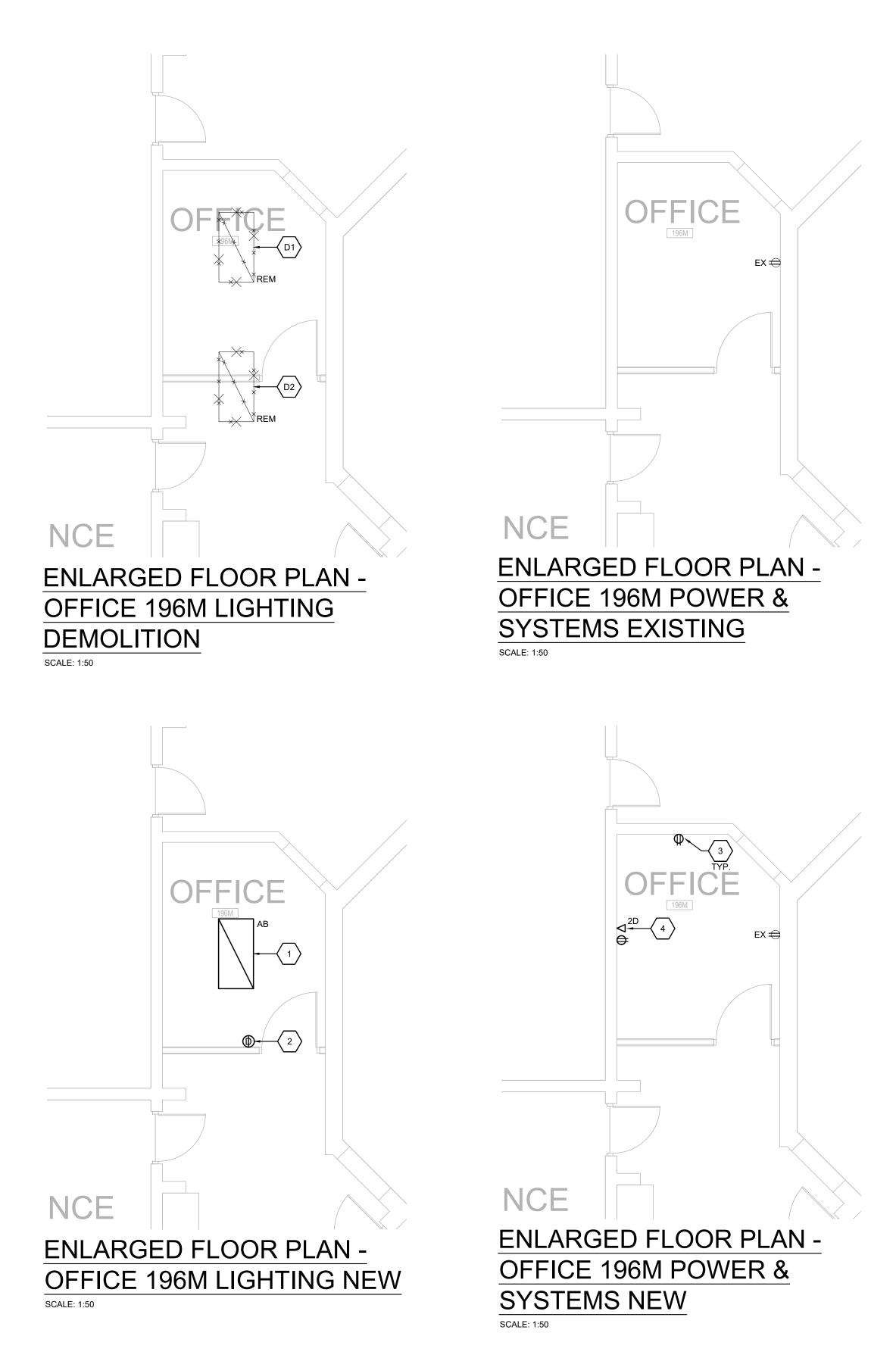
3. RESERVED.

4. <u>SEPARATE PRICE:</u> WITHIN OUTLINED AREAS REFER TO DRAWINGS E7, E8, E9 AND E10.









DEMOLITION NOTES (INDICATED BY HEXAGONS):

- D1. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE. MAINTAIN EXISTING LIGHTING CIRCUIT AND WIRING FOR POWER THROUGHOUT DEMOLITION PHASE FOR RECONNECTION TO NEW LIGHT FIXTURE AND CONTROLS DURING CONSTRUCTION PHASE.
- D2. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE.

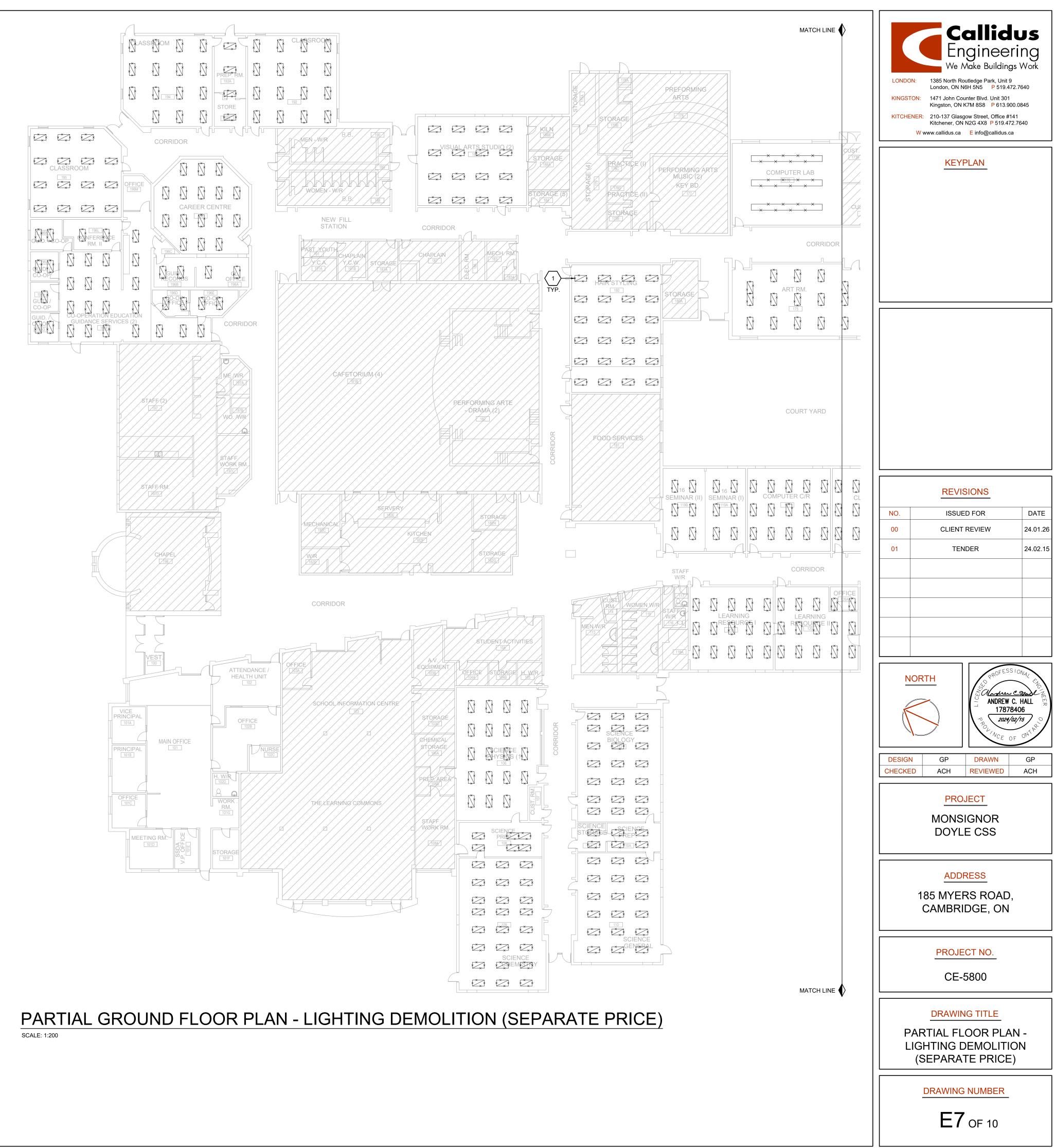
DRAWING NOTES (INDICATED BY HEXAGONS):

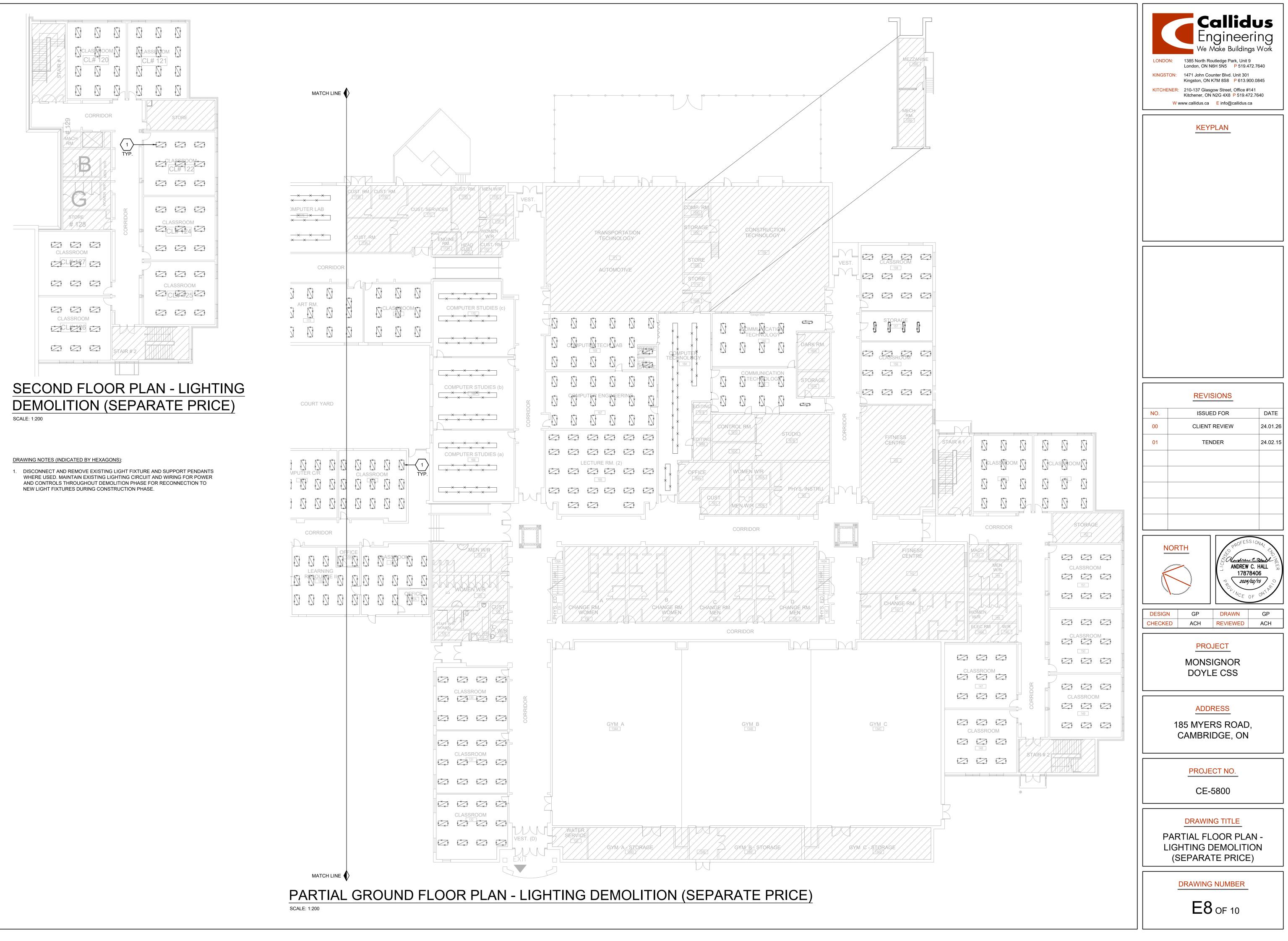
- 1. PROVIDE NEW LIGHT FIXTURE AS INDICATED AND RECONNECT TO EXISTING LIGHTING CIRCUIT AND NEW CONTROLS. MODIFY/EXTEND EXISTING WIRING AS REQUIRED FOR RECONNECTION.
- 2. PROVIDE NEW DIMMING OCCUPANCY SWITCH WHERE INDICATED AND CONNECT TO NEW LIGHT FIXTURE.
- PROVIDE NEW 15-5R DUPLEX RECEPTACLE WHERE INDICATED. EXTEND EXISTING CIRCUIT TO SUIT THE NEW LAYOUT AND IF NECESSARY PROVIDE NEW 15A, 1P, 120V CIRCUIT FROM NEAREST EXISTING PANEL TO FEED NEW RECEPTACLES.
- 4. PROVIDE NEW DATA OUTLET JACK AND WIRE NEW DATA CABLES FROM NEAREST EXISTING RACK. COORDINATE EXACT ROUTING ON SITE.

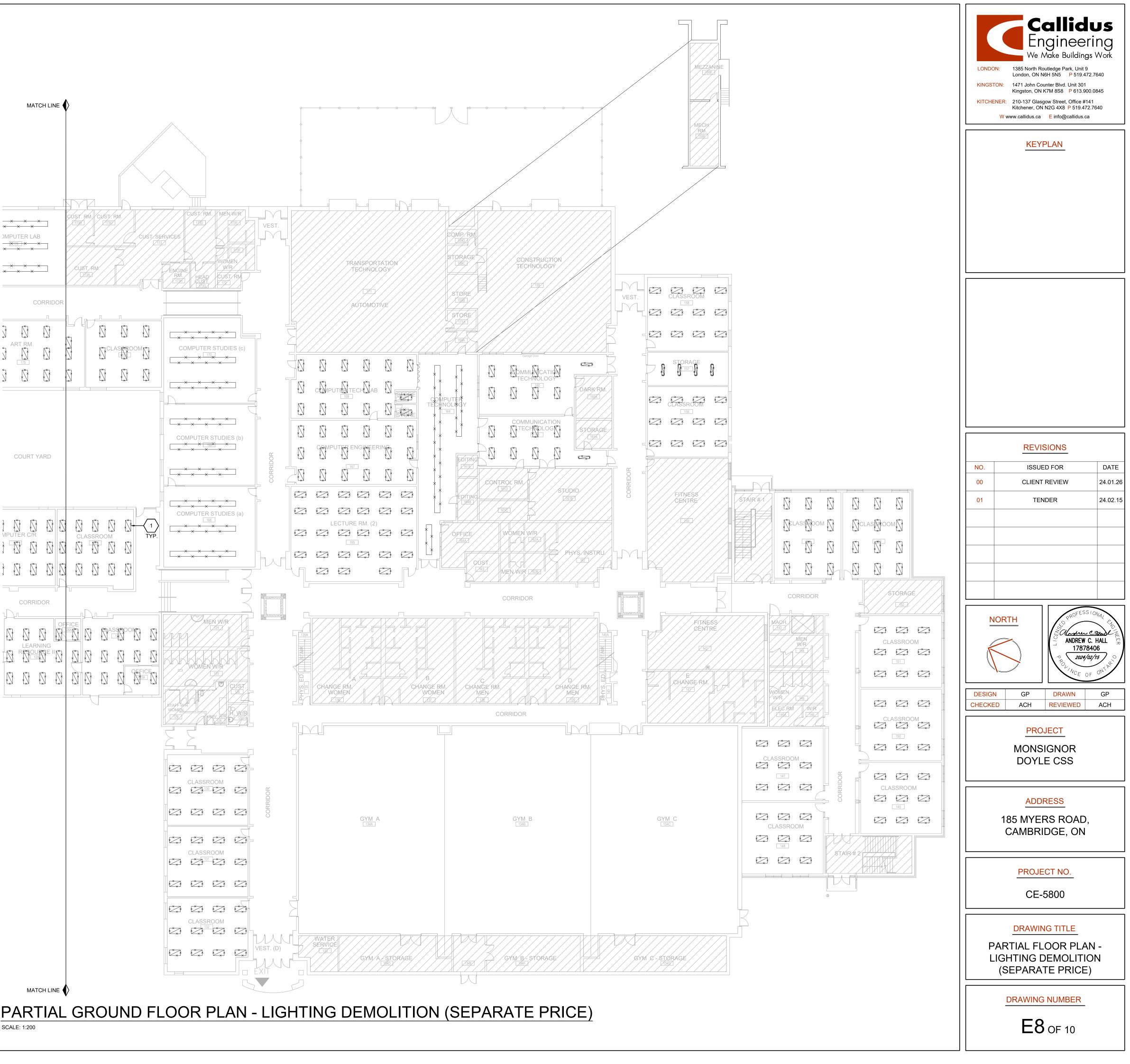
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	DRAWING NUMBER						
	E6 OF 10						

DRAWING NOTES (INDICATED BY HEXAGONS):

DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE AND SUPPORT PENDANTS WHERE USED. MAINTAIN EXISTING LIGHTING CIRCUIT AND WIRING FOR POWER AND CONTROLS THROUGHOUT DEMOLITION PHASE FOR RECONNECTION TO NEW LIGHT FIXTURES DURING CONSTRUCTION PHASE.









DRAWING NOTES (INDICATED BY HEXAGONS):

1. PROVIDE NEW LIGHT FIXTURE AS INDICATED TO REPLACE EXISTING AND RECONNECT TO EXISTING CIRCUIT AND LIGHTING CONTROLS. MODIFY/EXTEND EXISTING WIRING AS REQUIRED FOR RECONNECTION. CONTRACTOR TO VERIFY ON SITE IF EXISTING LIGHT CONTROLS ARE COMPATIBLE WITH NEW LIGHT FIXTURES AND PROVIDE NEW IF REQUIRED.

