

DRAWING LIST	
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## ELECTRICAL GENERAL NOTES

1. REFER TO ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS. VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH THE EXISTING BUILDING, EQUIPMENT AND SYSTEMS TO DETERMINE THE FULL EXTENT OF DEMOLITION AND RENOVATION WORK.
2. RENOVATIONS SHALL BE MADE ON THE EXISTING BUILDING AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. REMOVE ALL REDUNDANT ELECTRICAL EQUIPMENT AND CONDUITS. ONLY CONDUITS AND DEVICE BOXES THAT ARE IN VERY GOOD CONDITION MAY REMAIN AND BE REUSED. ALL EQUIPMENT REMOVED AND NOT REUSED SHALL BE HANDLED OVER TO THE OWNER AND NOT BE DISCARDED AT THE OWNER'S DISCRETION.
3. CONCEAL ALL CONDUITS AND BOXES IN EXISTING WALLS WHERE POSSIBLE. PROVIDE WIREMOLD 700 SERIES SURFACE RACEWAY FOR NEW DEVICES ON EXISTING WALLS AND ALL LOOSE DATA CABLES THAT CANNOT HAVE CONCEALED SERVICES. PROVIDE APPROPRIATE SURFACE RACEWAY DEVICE BOXES. IN UNFINISHED AREAS PROVIDE CONDUIT. IN AREAS WITH OPEN CEILING PROVIDE PAINTED CONDUIT TO MATCH EXISTING MOUNTING SURFACE COLOUR.
4. REMOVE, PROTECT AND REINSTALL IN THE SAME OR NEW LOCATION ON NEW SURFACES ALL EXISTING ELECTRICAL EQUIPMENT THAT WILL BE REUSED. EQUIPMENT IDENTIFIED FOR REUSE THAT IS LOST OR DAMAGED MUST BE REPLACED AT NO COST TO THE OWNER.

ELECTRICAL LEGEND					
SYMBOL	DESCRIPTION	MOUNTING	SYMBOL	DESCRIPTION	MOUNTING
<b>LIGHTING</b>					
	LED LUMINAIRE - NORMAL POWER	SEE LUMINAIRE SCHEDULE		1520 AMP 120 VOLT 3 WIRE GROUNDED DUPLEX RECEPTACLE CSA 5-20R	SEE TYPICAL MOUNTING HEIGHTS DETAIL
	LED LUMINAIRE - EMERGENCY POWER	SEE LUMINAIRE SCHEDULE		1520 AMP 120 VOLT 3 WIRE GROUNDED DUPLEX RECEPTACLE CSA 5-20R	ABOVE COUNTER - SEE TYPICAL MOUNTING HEIGHTS DETAIL
	LED LUMINAIRE - NORMAL POWER	SEE LUMINAIRE SCHEDULE		TWO 1520 AMP 120 VOLT 3 WIRE GROUNDED DUPLEX RECEPTABLES UNDER COMMON PLATE - NORMAL POWER	SEE TYPICAL MOUNTING HEIGHTS DETAIL
	LED LUMINAIRE - EMERGENCY POWER	SEE LUMINAIRE SCHEDULE		DIRECT POWER CONNECTION	AS NOTED
	LED LUMINAIRE - NORMAL POWER	SEE LUMINAIRE SCHEDULE		SPECIAL RECEPTACLE (AS NOTED)	AS NOTED
	LED LUMINAIRE - EMERGENCY POWER	SEE LUMINAIRE SCHEDULE		FLOOR BOX	
	EXIT SIGN WITH OR WITHOUT DIRECTIONAL ARROWS	CEILING MOUNTED		FLOOR BOX - c/w TWO 20A DUPLEX RECEPTABLES AND TWO NETWORK OUTLETS	
	EXIT SIGN WITH OR WITHOUT DIRECTIONAL ARROWS			BARRIER FREE PUSH BUTTON	
	ROOM CONTROLLER (DIMMING)	WALL MOUNTED AT CEILING		MOTOR c/w DISCONNECT SWITCH	SEE TYPICAL MOUNTING HEIGHTS DETAIL
	OCCUPANCY SENSOR	CEILING ABOVE SWITCHES		ELECTRICAL PANEL	SEE PANEL SCHEDULE
	OCCUPANCY SENSORS	CEILING MOUNTED		HEADWALL ELEVATION TAG	SEE TYPICAL HEADWALL DETAILS
	OCCUPANCY SENSOR SWITCH (DIMMING)	SEE TYPICAL MOUNTING HEIGHTS DETAIL		HEADWALL ELEVATION TAG	
	SINGLE POLE SWITCH (DIMMING)	SEE TYPICAL MOUNTING HEIGHTS DETAIL		<b>COMMUNICATIONS</b>	
	SINGLE POLE DIMMER SWITCH	SEE TYPICAL MOUNTING HEIGHTS DETAIL		CLOCK	WALL MOUNTED
	LOW VOLTAGE SWITCH (DIMMING)	SEE TYPICAL MOUNTING HEIGHTS DETAIL		DIGITAL CLOCK - PROVIDE 120V POWER AND NETWORK TO DIGITAL CLOCK (CONFIRM WITH OWNER)	WALL MOUNTED
<b>FIRE ALARM</b>				DATA AND TELEPHONE OUTLET	SEE TYPICAL MOUNTING HEIGHTS DETAIL
	SMOKE DETECTOR	CEILING MOUNTED		TELEPHONE OUTLET	SEE TYPICAL MOUNTING HEIGHTS DETAIL
	FIRE ALARM HORN c/w VISUAL SIGNAL (CD AS INDICATED)	SEE FIRE ALARM MOUNTING HEIGHTS DETAIL		TELEPHONE OUTLET - WALL	SEE TYPICAL MOUNTING HEIGHTS DETAIL
	FIRE ALARM HORN c/w VISUAL SIGNAL (CD AS INDICATED)	CEILING MOUNTED		DATA OUTLET (ROUGH-IN ONLY)	SEE TYPICAL MOUNTING HEIGHTS DETAIL
	FIRE ALARM CONTROL PANEL	SEE FIRE ALARM MOUNTING HEIGHTS DETAIL		DATA OUTLET - TWO JACKS (ROUGH-IN ONLY)	SEE TYPICAL MOUNTING HEIGHTS DETAIL
				SINGLE DEVICE BOX C/W BLANK COVER PLATE AND 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE	
				WIRELESS ACCESS POINT	CEILING
				PROJECTOR	SEE DETAIL
			<b>SOUND SYSTEMS</b>		
				MICROPHONE OUTLET	WALL MOUNTED
				SOUND SYSTEM SPEAKER	CEILING MOUNTED
				SOUND SYSTEM SPEAKER	WALL MOUNTED

LUMINAIRE SCHEDULE								
TYPE	MANUFACTURER	MOUNTING		LUMENS	SYSTEM WATTAGE	VOLTS	EQUAL MANUFACTURERS	REMARKS
		TYPE	HEIGHT					
A1	LITHONIA CAT # EPANL 2X4-400LM-80CRI-35K-MINI-ZT-MVOLT 610mm x 1220mm LED PLAT PANEL, 3500K, 0-10V DIMMING TO 1%	RECESSED	CEILING	4000	38	120	AS APPROVED	
E1	GOTHAM CAT # IC04-35/30-AR-LSS-45D-120-GZ1 100mm LED ROUND DOWNLIGHT, 3500K, 0-10V DIMMING TO 1%	RECESSED	CEILING	3000	34	120	AS APPROVED	
E2	GOTHAM CAT # IC04-35/15-AR-LSS-45D-120-GZ1 50mm LED ROUND DOWNLIGHT, 3500K, 0-10V DIMMING TO 1%	RECESSED	CEILING	1500	15	120	AS APPROVED	
E3	GOTHAM CAT # IC04-35/20-AR-LSS-45D-120-GZ1 100mm LED ROUND DOWNLIGHT, 3500K, 0-10V DIMMING TO 1%	RECESSED	CEILING	2000	22	120	AS APPROVED	
E4	GOTHAM CAT # IC0-35-25-6AR-LSS-45D-120-EZ1 150mm LED ROUND DOWNLIGHT, 3500K, 0-10V DIMMING TO 1%	RECESSED	CEILING	2500	26	120	AS APPROVED	
L4	MARK LIGHTING CAT # SL4-L-OP-4FT-FLP-TG-80CRI-35K-1200LMF-DARK 1220mm LED LINEAR, 3500K, 0-10V DIMMING TO 0.1%	RECESSED	CEILING	1200LUFT	12WFT	120	AS APPROVED	
L6	MARK LIGHTING CAT # SL4-L-OP-6FT-FLP-TG-80CRI-35K-1000LMF-DARK 1830mm LED LINEAR, 3500K, 0-10V DIMMING TO 0.1%	RECESSED	CEILING	1000LUFT	9WFT	120	AS APPROVED	
L8	MARK ARCHITECTURAL CAT # SLZ-L-OP-8FT-FLP-80CRI-35K-1000LMF-MINI-120V-ZT 2440mm LED LINEAR, 3500K, 0-10V DIMMING TO 1%	RECESSED	CEILING	1000FT	11WFT	120	AS APPROVED	
L10	MARK ARCHITECTURAL CAT # SLZ-L-OP-10FT-FLP-80CRI-35K-800LMF-MINI-120V-ZT 3050mm LED LINEAR, 3500K, 0-10V DIMMING TO 1%	RECESSED	CEILING	800FT	8WFT	120	AS APPROVED	
L18	MARK ARCHITECTURAL CAT # SLZ-L-OP-18FT-FLP-80CRI-35K-1000LMF-MINI-120V-ZT 5486mm LED LINEAR, 3500K, 0-10V DIMMING TO 1%	RECESSED	CEILING	1000FT	11WFT	120	AS APPROVED	
L20	MARK ARCHITECTURAL CAT # SLZ-L-OP-20FT-FLP-80CRI-35K-1000LMF-MINI-120V-ZT 6100mm LED LINEAR, 3500K, 0-10V DIMMING TO 1%	RECESSED	CEILING	1000FT	11WFT	120	AS APPROVED	
L51	MARK ARCHITECTURAL CAT # SLZ-L-OP-51FT-FLP-80CRI-35K-1000LMF-MINI-120V-ZT 15545mm LED LINEAR, 3500K, 0-10V DIMMING TO 1%	RECESSED	CEILING	1000FT	11WFT	120	AS APPROVED	
U1	LITHONIA CAT # UPLD-22N-SWW-W0CRH-WH UNDER CABINET LED LUMINAIRE, 3500K	SURFACE	UNDER CABINET	886	11	120	AS APPROVED	
P	ACCLAIM CAT # FLEXDH38 COVERED FLEX TRIM, FLEX ONE HO EXTERIOR, 3500K ON RECESSED FLEX CHANNEL AND LENS	RECESSED	COVE	566 LUFT	3.8WFT	120	AS APPROVED	NOTE B

NOTES:

- REFER TO ARCHITECTURAL REFLECTED CEILING DRAWINGS TO CONFIRM LUMINAIRE MOUNTING PRIOR TO ORDERING. SUPPLY APPROPRIATE MOUNTING CLIPS AND/OR TRIMS AS REQUIRED. ALL LINEAR LUMINAIRES TO BE CONTINUOUS RUNS.
- PROVIDE ALL ACCESSORIES AS REQUIRED. PROVIDE LOW PROFILE SURFACE RACEWAY TO CONCEAL ALL EXPOSED WIRING.
- EQUAL MANUFACTURERS TO SUBMIT WORKING SAMPLES TO CONSULTANT MINIMUM OF 5 WORKING DAYS PRIOR TO TENDER CLOSING.
- CONFIRM FINISH OF ALL INTERIOR LIGHTS WITH ARCHITECT PRIOR TO ORDERING.
- ALL INTERIOR LUMINAIRES CONNECTED TO ROOM CONTROLLERS TO BE 0-10V DIMMABLE.
- PROVIDE ALL ACCESSORIES AND POWER SUPPLIES AS REQUIRED FOR A COMPLETE SYSTEM.
- CONFIRM HORIZONTAL, OR VERTICAL BENDING AND RUN LENGTHS WITH ARCHITECTURAL DRAWINGS PRIOR TO ORDERING LED TUBE LIGHTING.
- CONFIRM RUN LENGTHS AND HANGING REQUIREMENTS WITH ARCHITECTURAL DRAWINGS PRIOR TO ORDERING FIXTURES. MOUNT DRIVER IN ACCESSIBLE CEILING SPACE.

The diagram illustrates the wiring for a typical DLM (Direct Load Module) detail. It shows three zones (A, B, and C) connected to a common bus. Each zone has a 0-10V control line. The bus is connected to a NEUTRAL line and a HOT line. A DIMMING ROOM CONTROLLER is connected to the bus. An OCCUPANCY SENSOR is connected to the bus. Two WALL/OCC SENSOR SWITCHES are connected to the bus. A CONTACT CLOSURE MODULE is connected to the bus. The diagram also shows connections to a NEXT DEVICE and a BAS (Building Automation System).

**TYPICAL DLM DETAIL**

N.T.S.

**NOTES:**

1. TYPICAL FOR ALL ROOMS WITH AN RC CONTROLLER. REFER TO FLOOR PLANS.
2. ELECTRICAL CONTRACTOR TO INSTALL CONTROLLERS ABOVE SWITCH IN ACCESSIBLE CEILING SPACE. WHERE LOCATED IN EXPOSED CEILING, ELECTRICAL CONTRACTOR TO INSTALL CONTROLLER IN 305mm x 305mm D BOX.
3. ALL CONCEALED LOW VOLTAGE WIRING TO BE IN CONDUIT. REFER TO SPECIFICATION SECTION 280923 FOR ACCEPTABLE WIRING METHODS.
4. CONTRACTOR TO TEST ALL CIRCUITS WITH MANUAL ON/OFF BUTTONS ON RELAY PACKS PRIOR TO INSTALLATION OF LOW-VOLTAGE WIRING.

The diagram is divided into two main sections: a schematic of an emergency switching system and two detailed cross-sections of penetrations through building elements.

**Emergency Switching Schematic:**

- EMERGENCY PANEL:** Contains a bypass shunt relay and a 0-10V dimmer override.
- NORMAL PANEL:** Contains a control device (switch, occupancy sensor, or relay).
- EMERGENCY LUMINAIRES:** Connected to the emergency panel.
- NORMAL LUMINAIRES:** Connected to the normal panel.
- TO 0-10V DIMMING CONTROLLER:** Receives input from the emergency panel.
- UL-824 EMERGENCY BYPASS SHUNT RELAY WITH 0-10V DIMMER OVERRIDE NOTE 3:** A specific component within the emergency panel.
- CONTROL DEVICE (SWITCH, OCCUPANCY SENSOR OR RELAY):** A specific component within the normal panel.

**EMERGENCY SWITCHING N.T.S.**

**NOTES:**

- EMERGENCY AND NORMAL POWER LUMINAIRES TO BE CONNECTED TO CORRESPONDING NEUTRAL.
- EMERGENCY POWER AND NORMAL POWER CONDUCTORS SHALL NOT ENTER INTO THE SAME DEVICE OR CONDUIT WITH THE EXCEPTION OF THE EMERGENCY SHUNT RELAY.
- TO BE FUNCTIONAL DEVICES E928N OR EQUAL, 16A AT 277V ELECTRONIC BALLAST RATED.

**SLEEVE IN CONCRETE FLOOR SLAB:**

- CONDUIT:** The pipe through which the cable passes.
- PIPE SLEEVE:** The sleeve through which the conduit passes.
- FINISHED FLOOR:** The top surface of the floor slab.
- FLOOR SLAB:** The concrete structure.
- ULC LISTED SEALANT:** The sealant used to seal the penetration.
- 25mm (1") IN ROOMS WITH WATER SERVICE, 16mm (1/2") ELSEWHERE:** The required thickness of the sealant.

**SLEEVE IN CONCRETE/BLOCK WALL:**

- WALL:** The concrete or block wall.
- CONDUIT:** The pipe through which the cable passes.
- PIPE SLEEVE:** The sleeve through which the conduit passes.
- ULC LISTED SEALANT:** The sealant used to seal the penetration.

**SLEEVE IN CONCRETE FLOOR SLAB N.T.S.**

**SLEEVE IN CONCRETE/BLOCK WALL N.T.S.**

**TYPICAL COMMUNICATION OUTLET AND RECEPTACLE MOUNTING**

N.T.S.

**NOTES:**

1. REFER TO FLOOR PLANS FOR LOCATION, TYPE AND QUANTITY OF DEVICES.
2. REFER TO SPECIFICATION FOR COMMUNICATION CONDUIT SIZES.

ABBREVIATIONS			
SM	SURFACE MOUNTED	P	POLE
C	CONDUIT	PH	PHASE
CL	CEILING MOUNTED	RR	REMOVE AND REINSTALL
CP	CHILD-PROOF / TAMPER RESISTANT RECEPTACLE	REL	IF DASHED - EXISTING TO BE RELOCATED
DC	DIRECT CURRENT	REL	IF SOLID - EXISTING IN NEW LOCATION
DMS	DIGITAL METERING SYSTEM	REM	EXISTING TO BE REMOVED
DS	UN-FUSED DISCONNECT SWITCH	REP	EXISTING TO BE REPLACED WITH NEW
EX	EXISTING TO REMAIN	RR	REMOVE AND RELCOATE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SW	SWITCH
H	HOUSE-KEEPING	TP	TAMPER PROOF
UPS	UNINTERRUPTIBLE POWER SUPPLY	T/S	TIME SWITCH
IG	ISOLATED GROUND	VFD	VARIABLE FREQUENCY DRIVE
NEW	NEW DEVICE	WG	WIRE GUARO
MP	MOISTURE PROOF	WM	WIREMOLD
OC	OVER COUNTER	WP	WEATHERPROOF

MECHANICAL EQUIPMENT SCHEDULE													
EQUIPMENT SUPPLIED AND INSTALLED BY DIVISION 25, WIRED BY DIVISION 26							CONTROL EQUIPMENT SUPPLIED AND INSTALLED BY DIVISION 26						
ITEM	DESCRIPTION	LOCATION	hp (kW)	MCA	PHASE	VOLTS	STARTER/CONTROL TYPE	FED FROM	BREAKER SIZE	POLES	CONDUCTOR SIZE	CONDUIT SIZE	NOTES
EF-8	EXHAUST FAN	SEE PLANS	1/4		1	120	DS	SEE PLANS	15	1	2 #12	21mm	
<u>NOTES:</u> 1. DIVISION 26 TO OBTAIN COPIES OF MECHANICAL EQUIPMENT SHOP DRAWINGS AND COORDINATE ELECTRICAL SERVICES. 2. PROVIDE LOCAL NON-FUSED DISCONNECT SWITCH AT MOTORS IN ACCORDANCE WITH SECTION 28-604 OF THE ONTARIO ELECTRICAL SAFETY CODE. 3. UNLESS INDICATED OTHERWISE ALL CONTROL WIRING IS BY DIVISION 25.													

MOTOR CONTROL ABBREVIATIONS			
ALST	ALTERNATOR STARTER	HOA	HAND-OFF-AUTO SELECTOR SWITCH
COMB	COMBINATION DISCONNECT SWITCH AND MAGNETIC STARTER	HOL	HIGH-OFF-LOW-SPEED SELECTOR SWITCH $\Delta$ w 15 SECOND TIME DELAY FROM HIGH SPEED TO LOW
CON	CONTACTOR	MAN	MANUAL STARTER
DS	UN-FUSED DISCONNECT SWITCH	MCA	MINIMUM CIRCUIT AMPACITY
DC	DIRECT CURRENT	PL	PILOT LIGHT
FHP	FRACTIONAL HORSE POWER	FVNR	FULL VOLTAGE NON-REVERSING STARTER $\Delta$ w H.O.A. SWITCH
FLA	FULL LOAD AMPS	SS	START STOP
FDS	FUSED DISCONNECT SWITCH	VSD	VARIABLE SPEED DRIVE

REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS FOR REQUIREMENTS

PROVIDE 3 DUPLEX RECEPTACLES ON EACH SIDE OF THE HEADWALL REFER TO DRAWINGS FOR CIRCUITING (TYP.)

HOSPITAL BED (TYP.)

CCT#1  
CCT#2  
CCT#3

CCT#1  
CCT#2  
CCT#3

**TYPICAL HW1 ELEVATION**  
NTS

[illegible]

Diagram illustrating typical mounting heights for various fire alarm devices. The diagram shows a corner of a room with a floor and walls. The vertical axis (left wall) shows heights from 130mm to 3800mm. The horizontal axis (right wall) shows heights from 100mm to 1700mm. Various devices are shown mounted at specific heights:

- RESEALABLE DATA OUTLET (150mm)
- RESEALABLE DATA OUTLET (1200mm)
- RESEALABLE DATA OUTLET (900mm)
- RESEALABLE DATA OUTLET (480mm)
- HALL PHONE (130mm)
- FIRE ALARM CONTROL (1700mm)
- FIRE ALARM CONTROL (1600mm)
- FIRE ALARM CONTROL (1500mm)
- FIRE ALARM CONTROL (1400mm)
- FIRE ALARM CONTROL (1300mm)
- FIRE ALARM CONTROL (1200mm)
- FIRE ALARM CONTROL (1100mm)
- FIRE ALARM CONTROL (1000mm)

NOTES:

- COORDINATE DEVICE LOCATIONS WITH ARCHITECTURAL ELEVATIONS.
- PROVIDE 810mm x 1370mm OF CLEAR SPACE CENTERED IN FRONT OF THE DEVICE.
- MINIMUM 1000mm OR 1500mm CLEARANCE IF SHOWN ON THE FLOOR PLANS.

Diagram illustrating the Trapeze Suspension for Feeder Conduits (Typical). The diagram shows a cross-section of a building structure with a trapeze suspension system. Key components labeled include:

- RESTRAINING STRAP
- BUILDING STRUCTURE
- BEAM CLAMP  
USE SLEEVE ANCHOR FOR CONCRETE SLABS
- HANGER ROD
- NUT
- WASHER
- CLAMP INDIVIDUAL CONDUITS TO SUSPENSION SYSTEM WITH STRUT CONDUIT CLAMPS
- CONDUITS
- CHANNEL SUSPENSION SYSTEM AS SPECIFIED

**TRAPEZE SUSPENSION FOR FEEDER CONDUITS**  
**(TYPICAL)**  
 N.T.S.

# E1.1

## WU LHSB RENOVATION

1151 Richmond St. London

### ELECTRICAL LEGEND, DRAWING LIST, SCHEDULES AND DETAILS

Project No.	Plot Date
10500.2	05/08/20

WESTERN UNIVERSITY

Drawn By: KDC

**Western**  
UNIVERSITY - CANADA

**Chorley + Bisset**  
CONSULTING ENGINEERS

200 UNIVERSITY AVENUE SUITE 400  
OTTAWA ON K1N 6N5

2020-05-26

ISSUED FOR TENDER

I, THE UNDERSIGNED, ENGINEER, HEREBY CERTIFY THAT THE DRAWING(S) SUBMITTED TO ME BY THE CLIENT, AND THE DESIGN THEREON, HAVE BEEN PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF THEY COMPLY WITH THE REQUIREMENTS OF THE PROFESSIONAL ENGINEERING ACT AND THE REGULATIONS THEREUNDER.

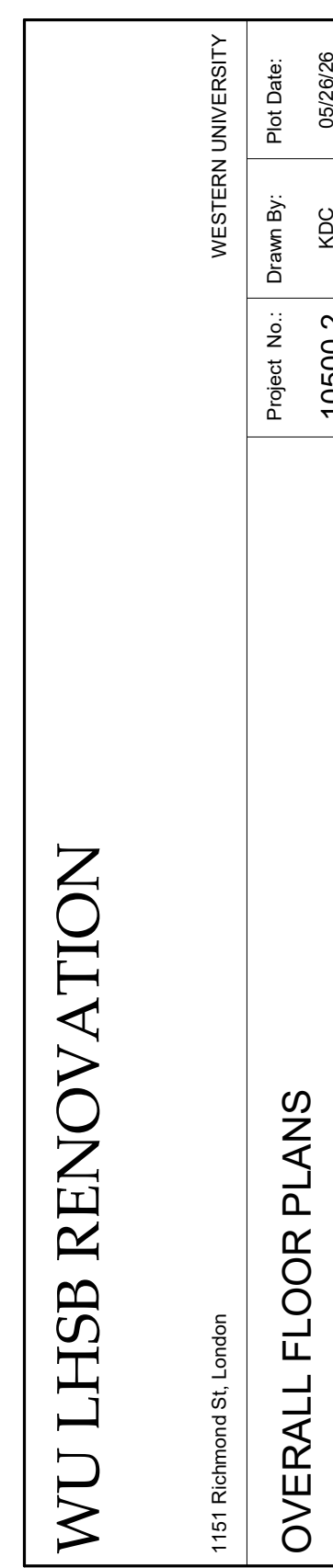
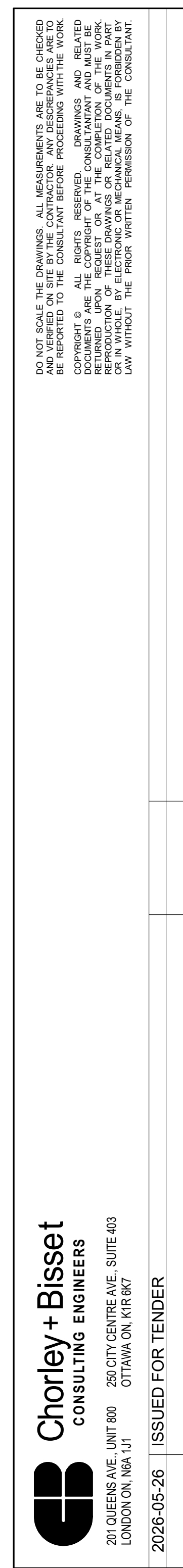
2020-05-26

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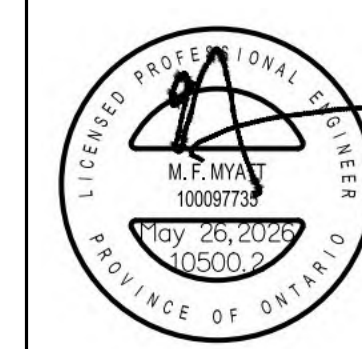













Charley + Bisset

CONSULTING ENGINEERS



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2020-05-26

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WU LHSB RENOVATION

1151 Richmond St. London

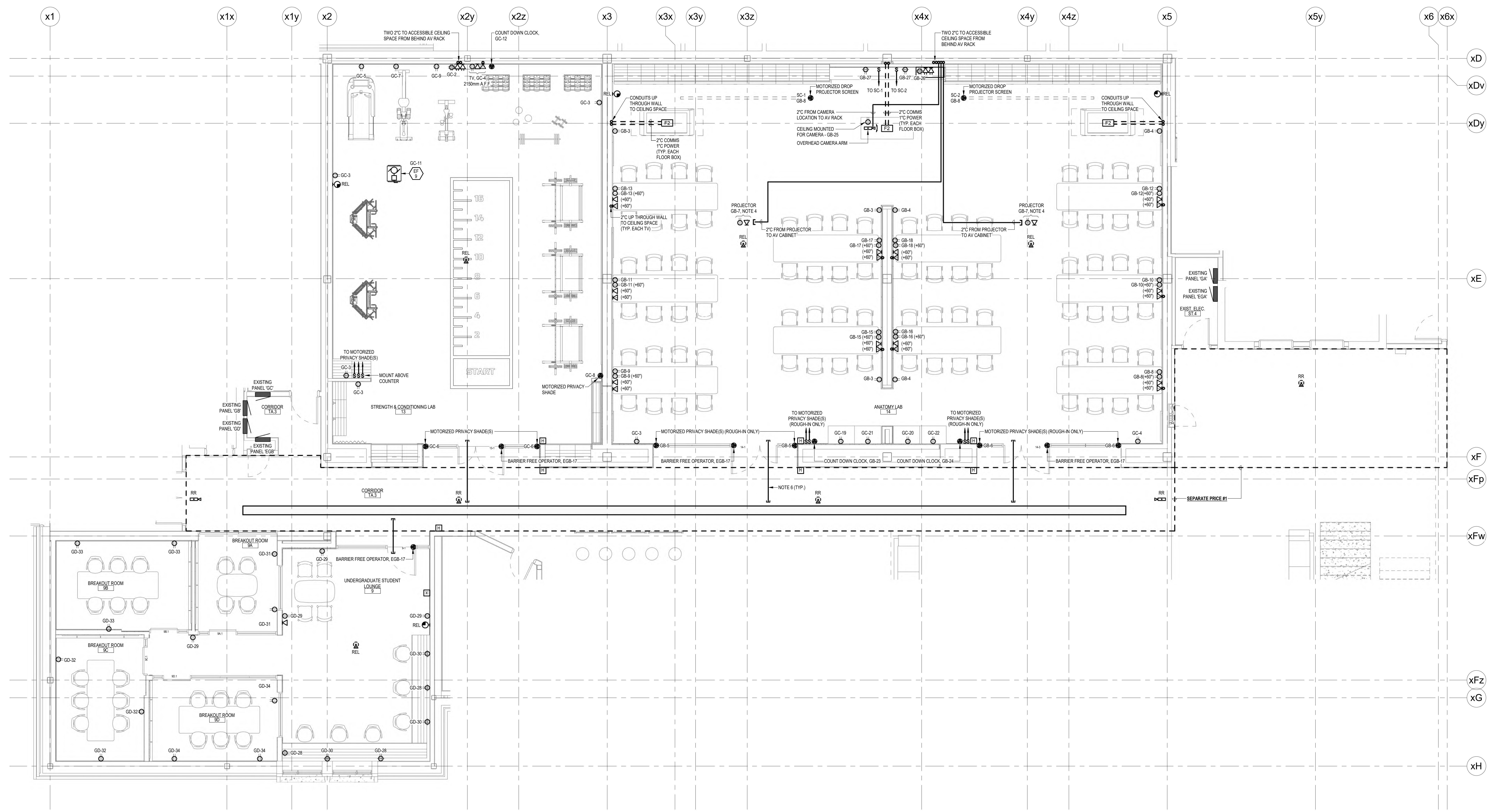
WESTERN UNIVERSITY


Project No. 10500.2

Drawn By: KJC

Rev Date: 05/26/26

ENLARGED GROUND FLOOR PLAN - POWER AND SYSTEMS



- 

ENLARGED GROUND FLOOR PLAN - POWER AND SYSTEMS

SCALE: 1"=30'
- NOTES:
1.

COORDINATE TV AND PROJECTOR LOCATIONS WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
2.

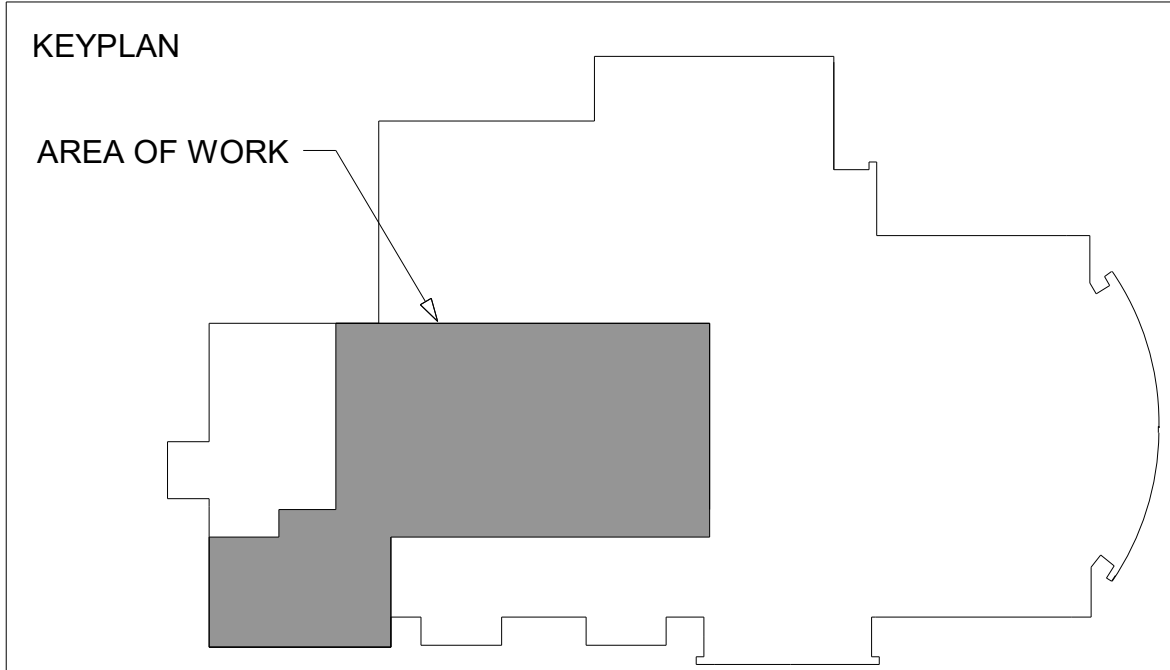
REFER TO WESTERN UNIVERSITY AV SPECIFICATION DOCUMENTS FOR ALL ROUGH-IN POWER, WIRING AND DEVICES. THOROUGHLY REVIEW THE WESTERN UNIVERSITY AV DOCUMENTS AND PROVIDE ALL CONDUITS, ROUGH-IN BOXES, CABLEING, CONTROLS, LIGHTING CONTROL DEVICES SHOWN ON THIS SHEET ARE CONSIDERED GENERAL USE AND SHALL BE PROVIDED AS SHOWN IN ADDITION TO ALL DEVICES SHOWN IN THE AV DOCUMENTS.
3.

REFER TO SPECIFICATIONS FOR ALL DOOR ELEVATIONS AND ROUGH-IN DETAILS. PROVIDE A SYSTEM OF EMPTY CONDUITS AND BOXES INDICATED ON DOOR ELEVATIONS AND DENOTED BY DIVISION 26. ALL CONDUITS TO BE COMPLETED WITH NYLON FISH WIRE.
4.

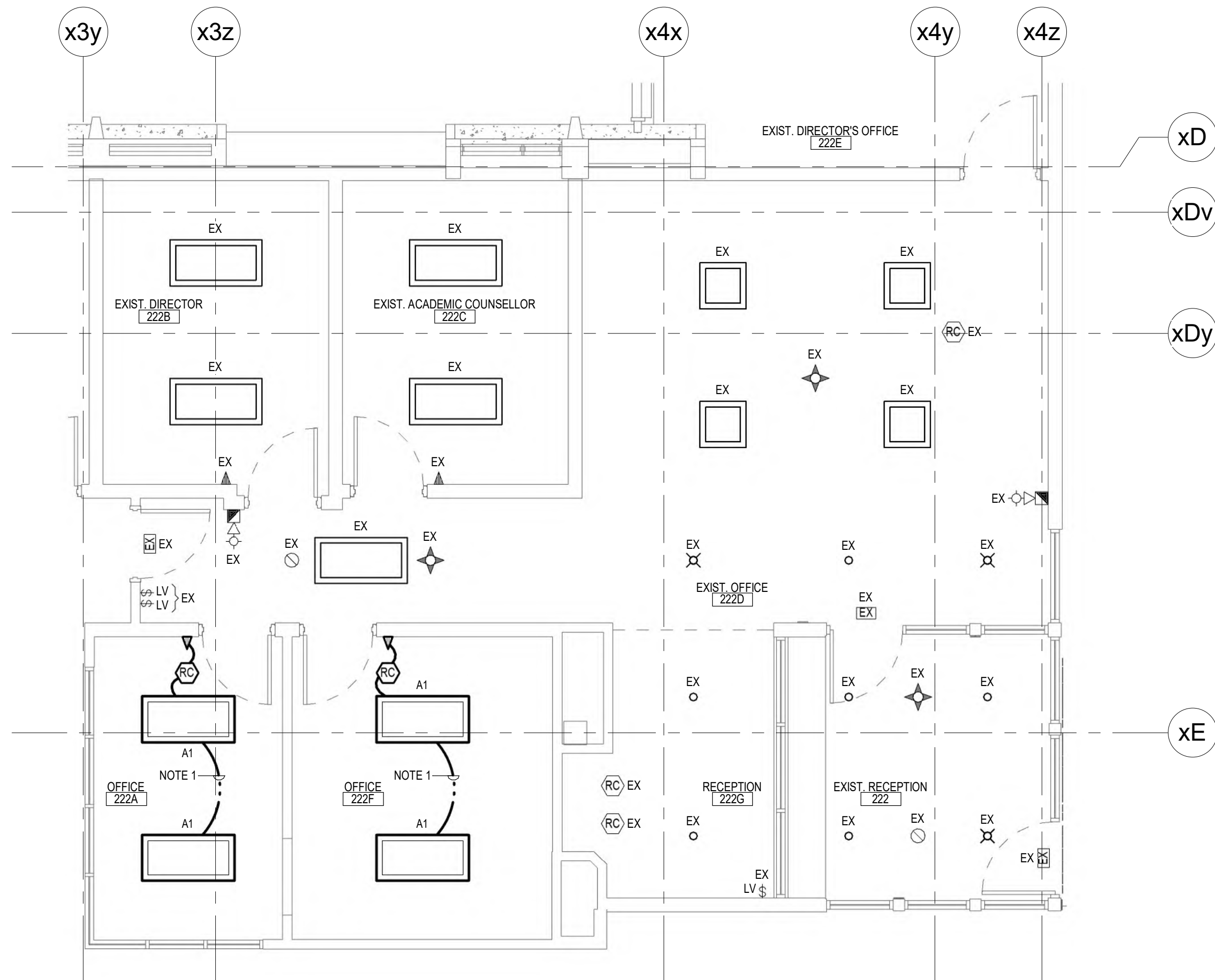
COORDINATE EXACT LOCATIONS OF DEVICES NOTED WITH WESTERN UNIVERSITY PRIOR TO INSTALLATION.
5.

COORDINATE LOCATIONS OF ALL BARRIER FREE PUSH BUTTONS AND DOOR HARDWARE WITH HARDWARE ELEVATIONS AND ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
6.

ALL SLEEVES TO RUN TO NEW CABLE TRAY. COORDINATE WITH WESTERN ITS DEPARTMENT (TYPICAL).

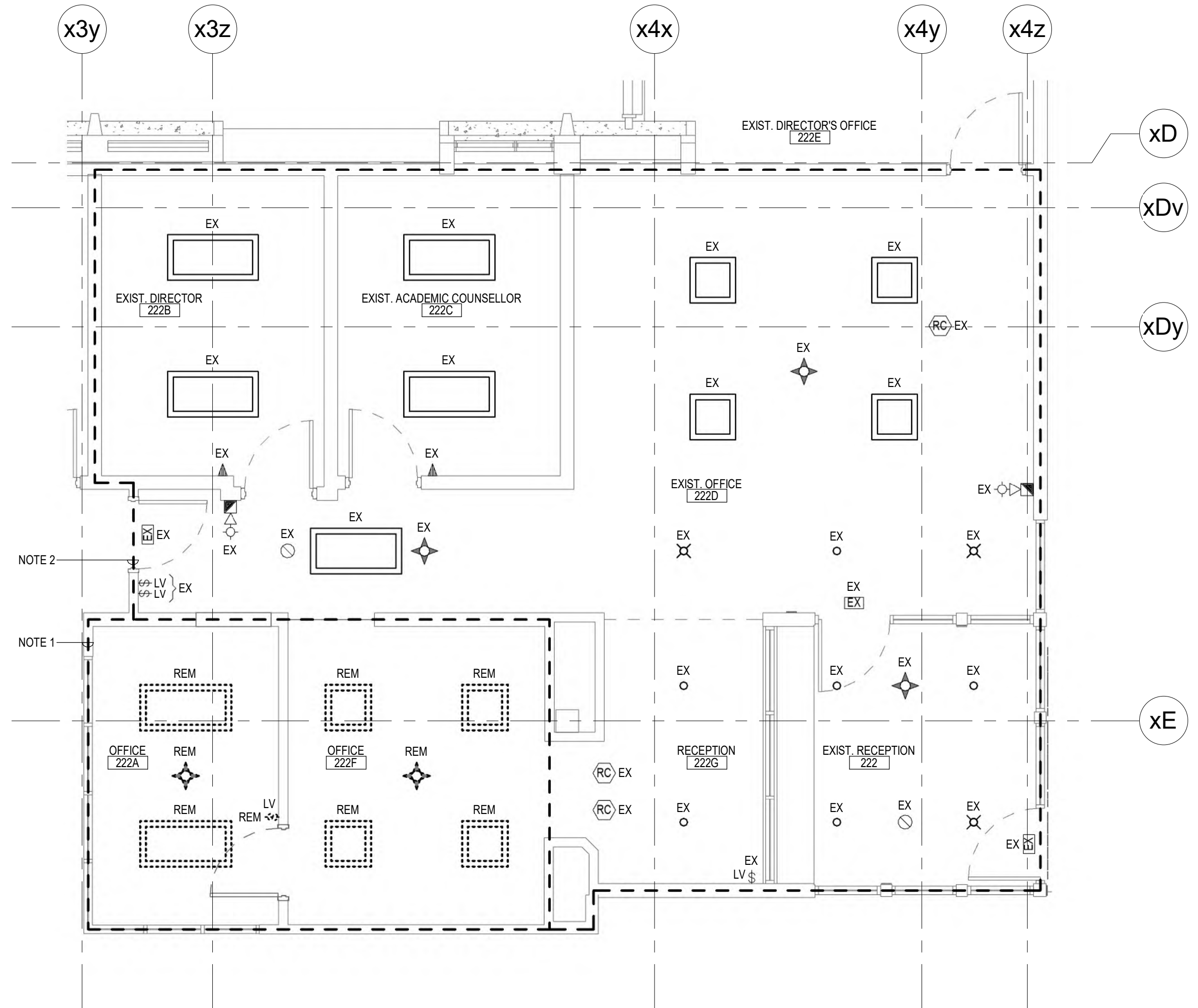






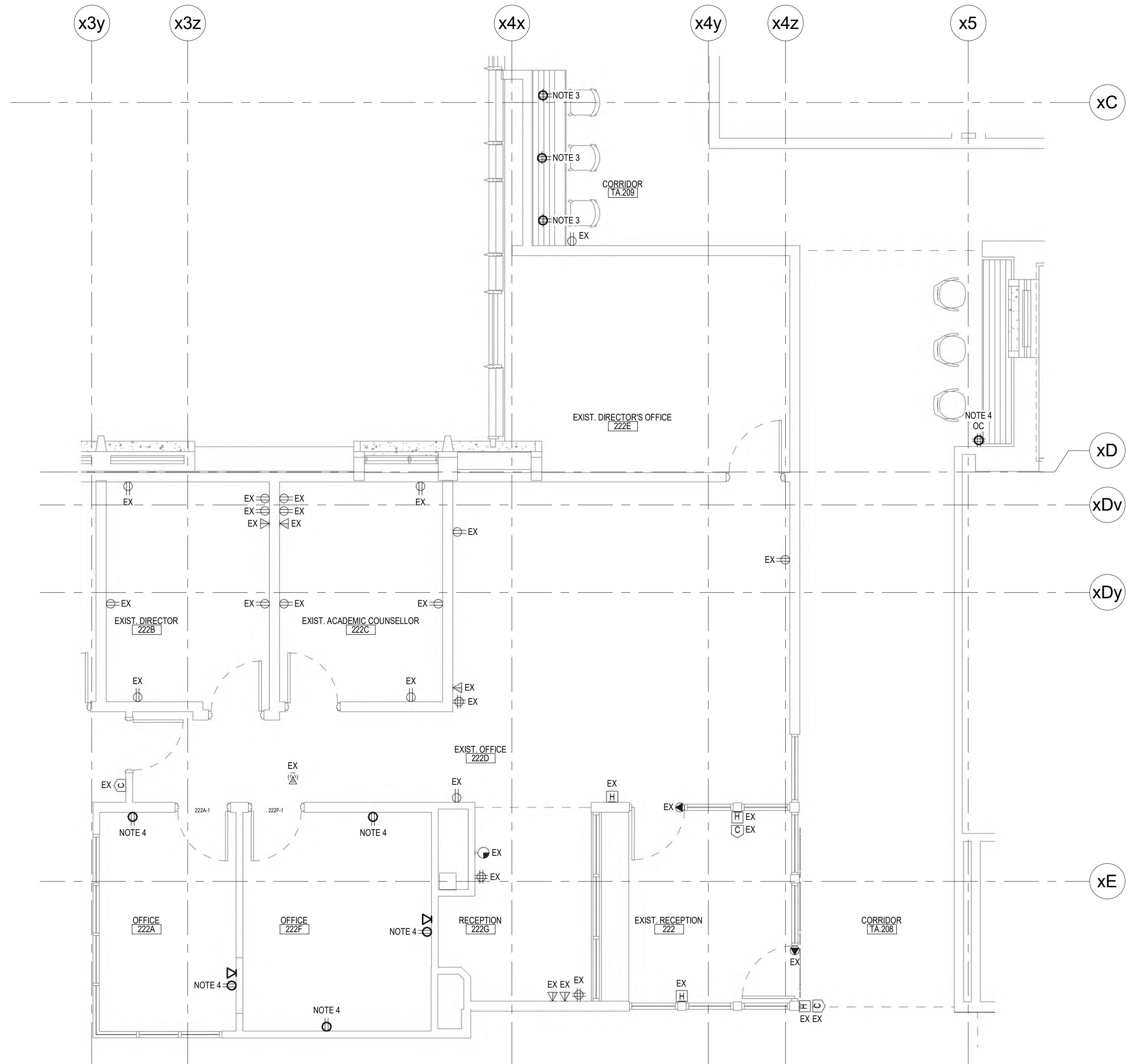
**ENLARGED SECOND FLOOR PLAN - LIGHTING AND FIRE ALARM**  
SCALE: 1:50

- NOTES:**
1. EXTEND/REWORK EXISTING LIGHTING CIRCUIT IN THE AREA TO ACCOMMODATE NEW LIGHTING.



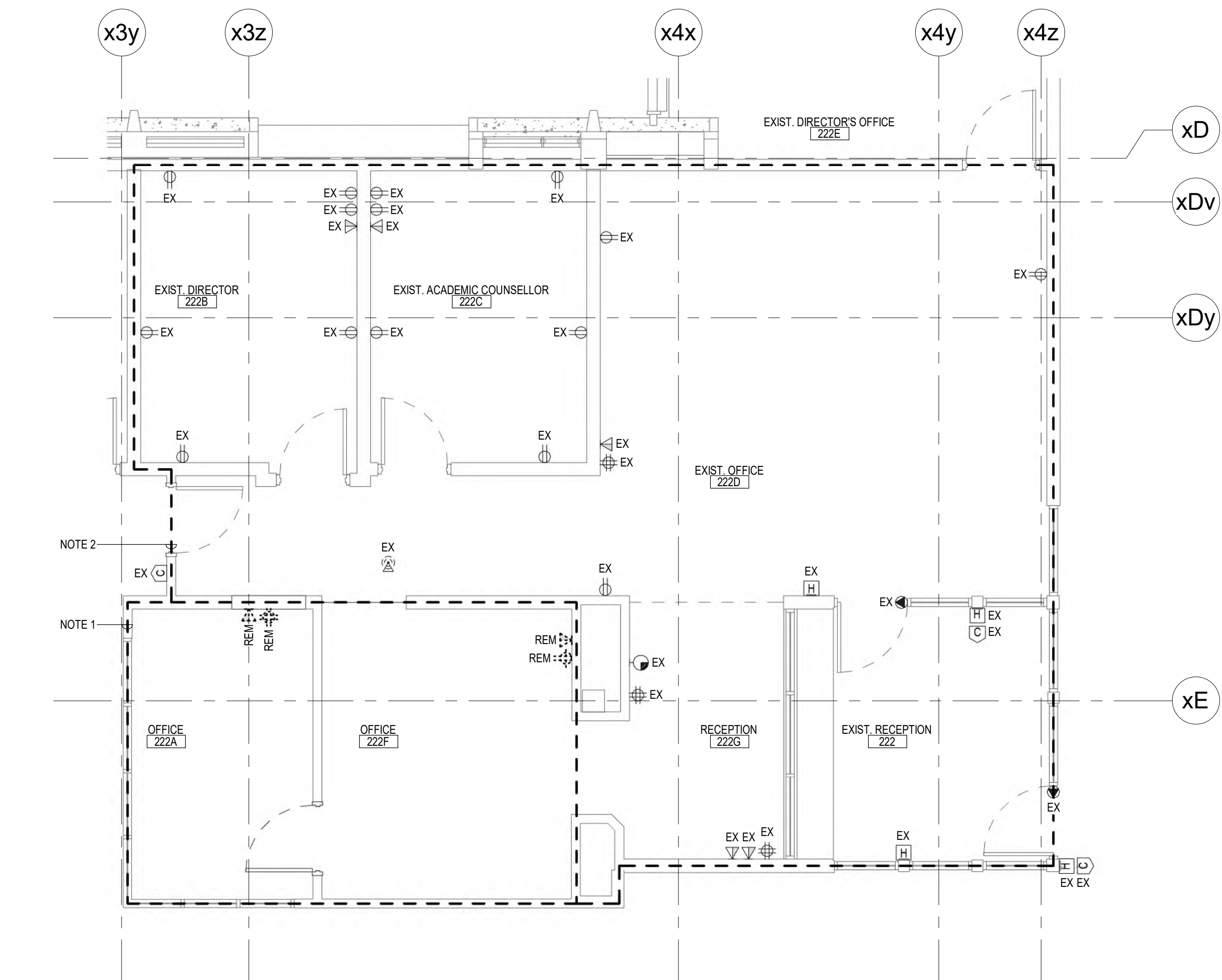
**ENLARGED SECOND FLOOR PLAN - LIGHTING AND FIRE ALARM DEMOLITION**  
SCALE: 1:50

- NOTES:**
1. DEVICES ARE SHOWN FOR REFERENCE PURPOSES ONLY. ACTUAL QUANTITIES MAY VARY. COMPLETELY REMOVE ALL LIGHTING AND FIRE ALARM DEVICES WITHIN THE OUTLINED AREA UNLESS NOTED OTHERWISE. REMOVE ALL REDUNDANT WIRING, CONDUIT, CABLEING AND CONTROLS BACK TO SOURCE. MAINTAIN SERVICES TO AREAS NOT UNDER CONSTRUCTION.
  2. DEVICES ARE SHOWN FOR REFERENCE PURPOSES ONLY. ACTUAL QUANTITIES MAY VARY. IN GENERAL, REMOVE AND REINSTALL/RELOCATE EXISTING ELECTRICAL DEVICES AS REQUIRED TO SUIT RENOVATION WITHIN THE OUTLINED AREA. EXTEND/REWORK EXISTING WIRING, CONDUIT, CABLEING AND CONTROLS TO SUIT. MAINTAIN SERVICES TO AREAS NOT UNDER CONSTRUCTION.



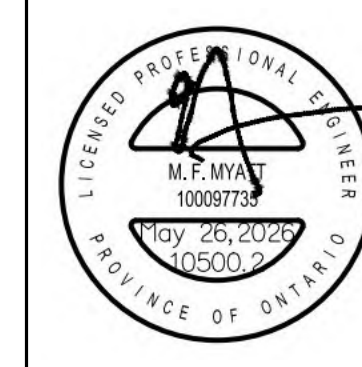
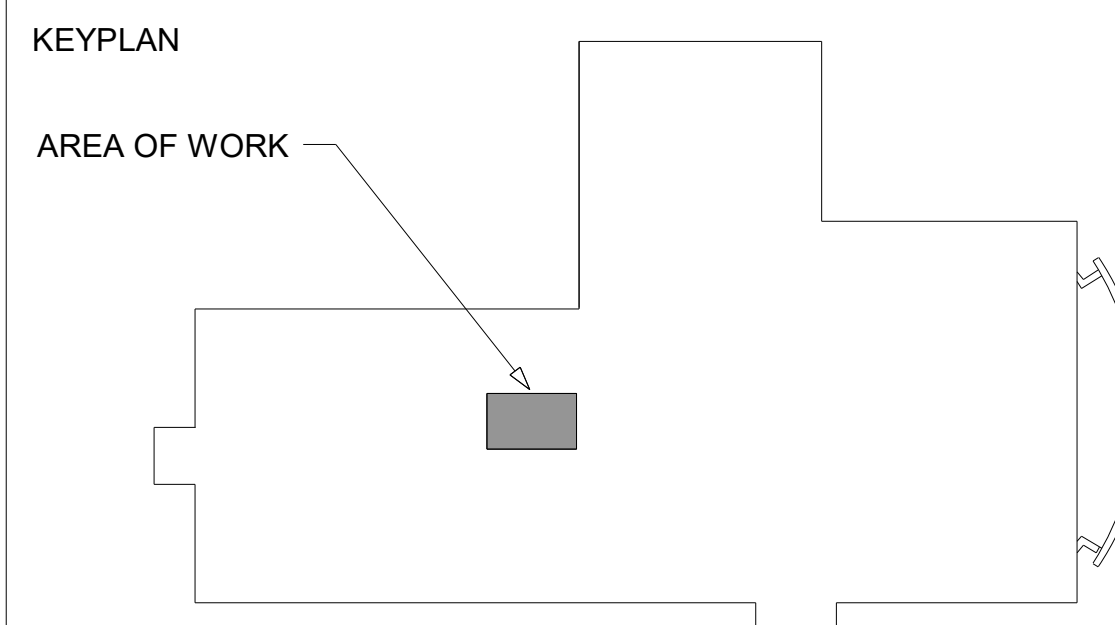
**ENLARGED SECOND FLOOR PLAN - POWER AND SYSTEMS**  
SCALE: 1:50

- NOTES:**
1. REFER TO SPECIFICATIONS FOR ALL DOOR ELEVATIONS AND ROUGH-IN DETAILS. PROVIDE A SYSTEM OF EMPTY CONDUITS AND BOXES INDICATED ON DOOR ELEVATIONS AND DENOTED BY DIVISION 26. ALL CONDUITS TO BE COMPLETED WITH NYLON FISH WIRE.
  2. REFER TO WESTERN UNIVERSITY AV SPECIFICATION DOCUMENTS FOR ALL ROUGH-IN, POWER, WIRING AND DEVICES. THOROUGHLY REVIEW THE WESTERN UNIVERSITY AV DOCUMENTS AND PROVIDE ALL CONDUITS, ROUGH-IN, BOXES, CABLEING, CONTROLS, LIGHTING CONTROL DEVICES SHOWN ON THIS SHEET ARE CONSIDERED GENERAL USE AND SHALL BE PROVIDED AS SHOWN IN ADDITION TO ALL DEVICES SHOWN IN THE AV DOCUMENTS.
  3. PROVIDE TWO (2) 15A 1P BREAKERS IN EXISTING PANEL 3C TO SERVE NEW RECEPTACLES.
  4. CONNECT TO EXISTING CIRCUIT SERVING RECEPTACLES IN THIS ROOM. EXTEND/REWORK AS REQUIRED.



**ENLARGED SECOND FLOOR PLAN - POWER AND SYSTEMS DEMOLITION**  
SCALE: 1:50

- NOTES:**
1. DEVICES ARE SHOWN FOR REFERENCE PURPOSES ONLY. ACTUAL QUANTITIES MAY VARY. COMPLETELY REMOVE ALL POWER AND SYSTEM DEVICES WITHIN THE OUTLINED AREA UNLESS NOTED OTHERWISE. REMOVE ALL REDUNDANT WIRING, CONDUIT, CABLEING AND CONTROLS BACK TO SOURCE. MAINTAIN SERVICES TO AREAS NOT UNDER CONSTRUCTION.
  2. DEVICES ARE SHOWN FOR REFERENCE PURPOSES ONLY. ACTUAL QUANTITIES MAY VARY. IN GENERAL, REMOVE AND REINSTALL/RELOCATE EXISTING ELECTRICAL DEVICES AS REQUIRED TO SUIT RENOVATION WITHIN THE OUTLINED AREA. EXTEND/REWORK EXISTING WIRING, CONDUIT, CABLEING AND CONTROLS TO SUIT. MAINTAIN SERVICES TO AREAS NOT UNDER CONSTRUCTION.
  3. IN GENERAL, WESTERN UNIVERSITY'S WTS DEPARTMENT TO SALVAGE EXISTING AV EQUIPMENT. DISCONNECT/DISASSEMBLE ALL PROJECTORS, PROJECTOR SCREENS, PROJECTOR POSTS FROM DECK, MICROPHONES AND SPEAKERS. TURN OVER ALL EQUIPMENT TO WESTERN UNIVERSITY.

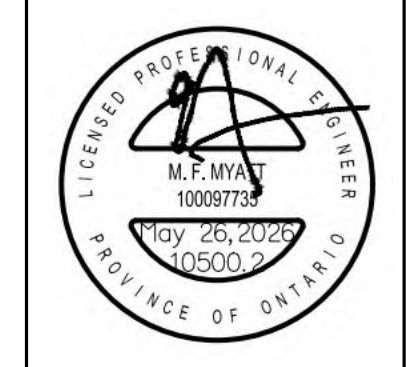


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2025-05-26 ISSUED FOR TENDER



**WU LHSB RENOVATION**  
1151 Richmond St. London  
ENLARGED SECOND FLOOR PLANS - ELECTRICAL AND ELECTRICAL DEMOLITION  
Project No. 10900.2  
Western University  
Drawn By: KJC  
Rev Date: 05/26/26





DO NOT SCALE. THE DRAWING AND DIMENSIONS ARE TO BE CHECKED FOR CONFORMANCE WITH THE REQUIREMENTS OF THE NATIONAL BUILDING CODE OF CANADA (NBC) AND THE CITY OF OTTAWA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA AND THE PROVINCE OF ONTARIO. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA AND THE PROVINCE OF ONTARIO. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA AND THE PROVINCE OF ONTARIO.

Chorley + Bisset

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OTTAWA, ONTARIO K1G 3H7

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WU LHSB RENOVATION

1155 Richmond St. London

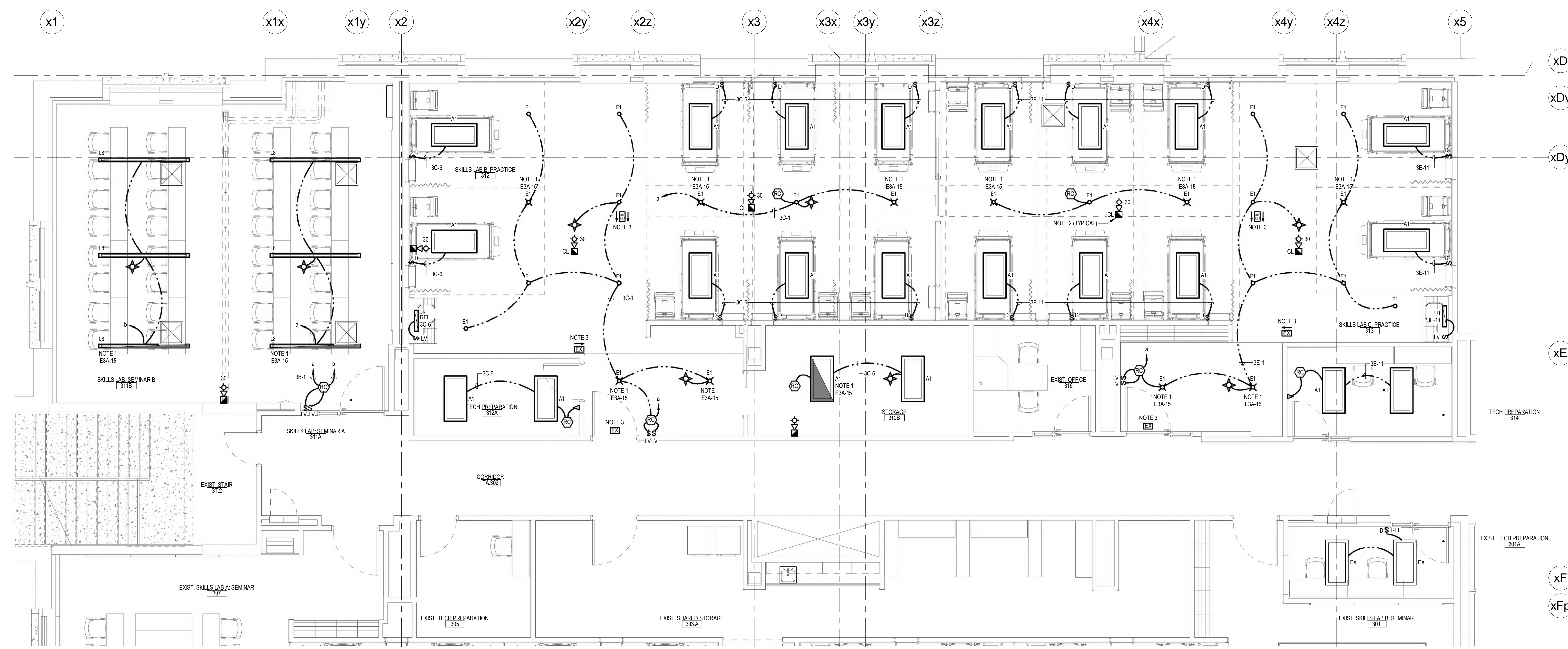
ENLARGED THIRD FLOOR PLANS - ELECTRICAL

WESTERN UNIVERSITY

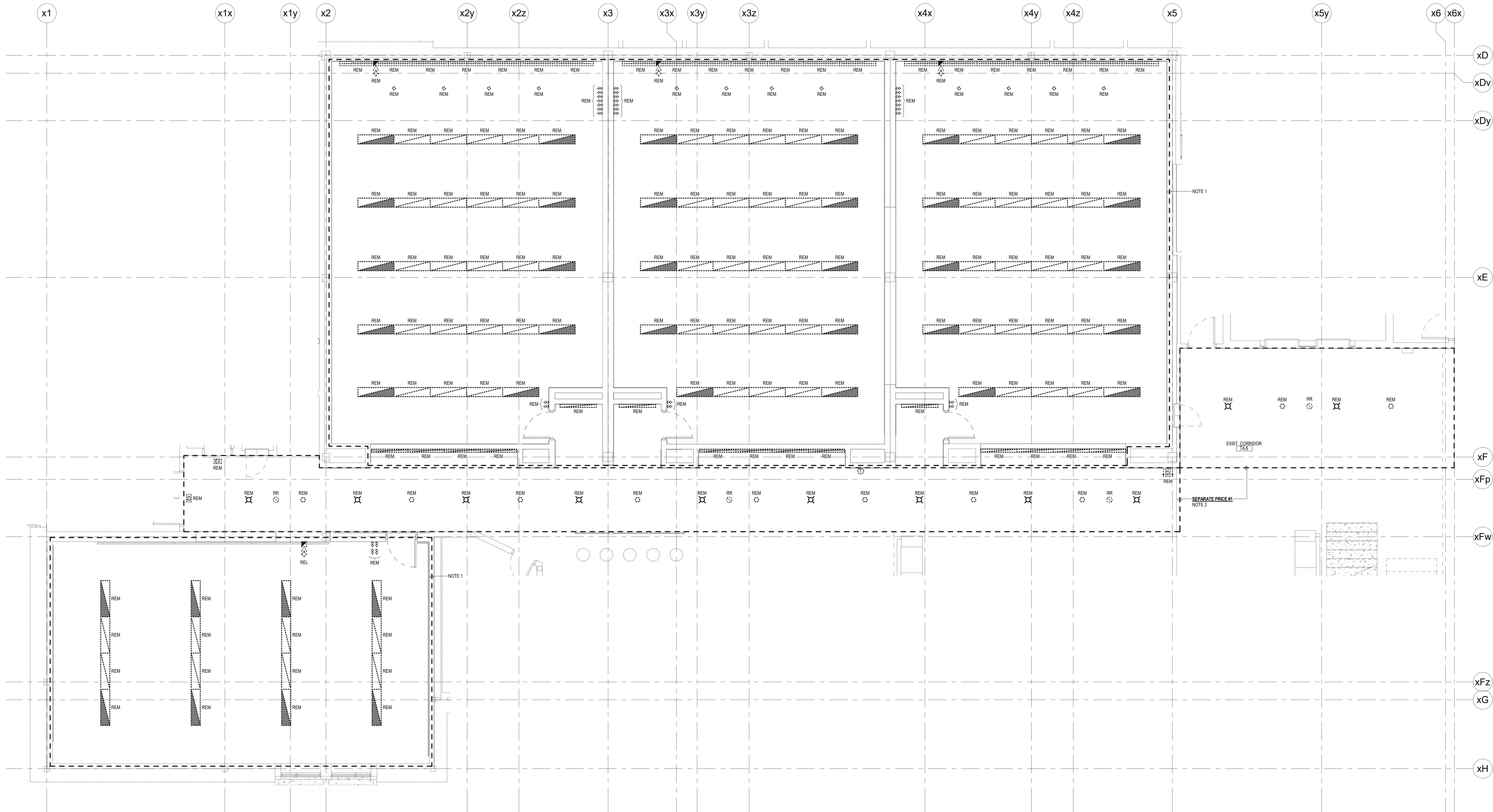
Project No. 10500.2

Drawn By: JAC

Proj. Date: 05/26/25



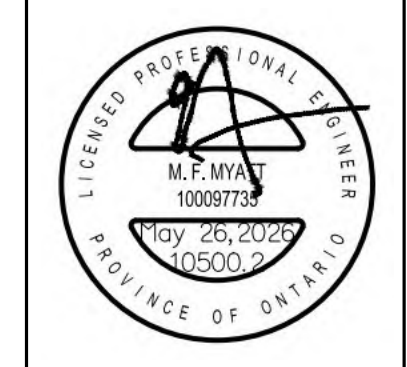
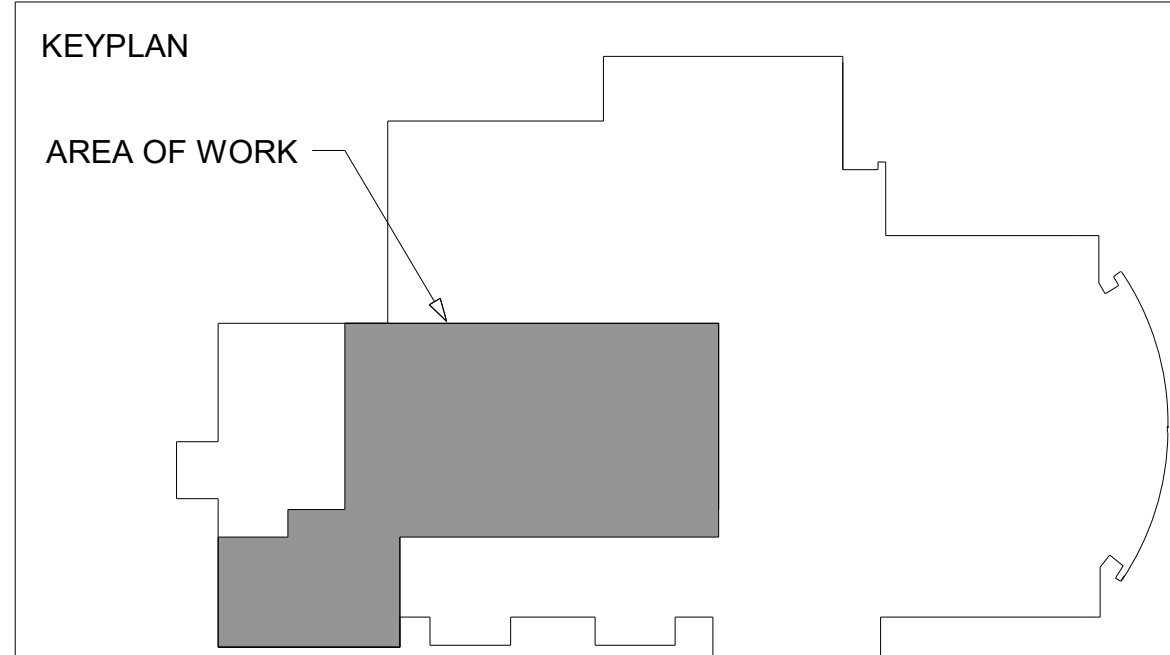




ENLARGED GROUND FLOOR PLAN - LIGHTING AND FIRE ALARM DEMOLITION  
SCALE: 1:50

NOTES:

1. DEVICES ARE SHOWN FOR REFERENCE PURPOSES ONLY. ACTUAL QUANTITIES MAY VARY. COMPLETELY REMOVE ALL LIGHTING AND FIRE ALARM DEVICES WITHIN THE OUTLINED AREA UNLESS NOTED OTHERWISE. REMOVE ALL REDUNDANT WIRING, CONDUIT, CABLING AND CONTROLS BACK TO SOURCE. MAINTAIN SERVICES TO AREAS NOT UNDER CONSTRUCTION.
2. DEVICES ARE SHOWN FOR REFERENCE PURPOSES ONLY. ACTUAL QUANTITIES MAY VARY. AS PART OF BASE BID, REMOVE AND REINSTALL EXISTING ELECTRICAL DEVICES AS REQUIRED TO SUIT RENOVATION WITHIN THE OUTLINED AREA. EXTEND/REWORK EXISTING WIRING, CONDUIT, CABLING AND CONTROLS TO SUIT. AS PART OF SEPARATE PRICE #1, COMPLETELY REMOVE ALL LIGHTING AND CONTROLS WITHIN THE OUTLINED AREA UNLESS NOTED OTHERWISE. REMOVE ALL REDUNDANT WIRING, CONDUIT, CABLING AND CONTROLS BACK TO SOURCE. FIRE ALARM DEVICES TO BE REMOVED AND REINSTALLED. MAINTAIN SERVICES TO AREAS NOT UNDER CONSTRUCTION.

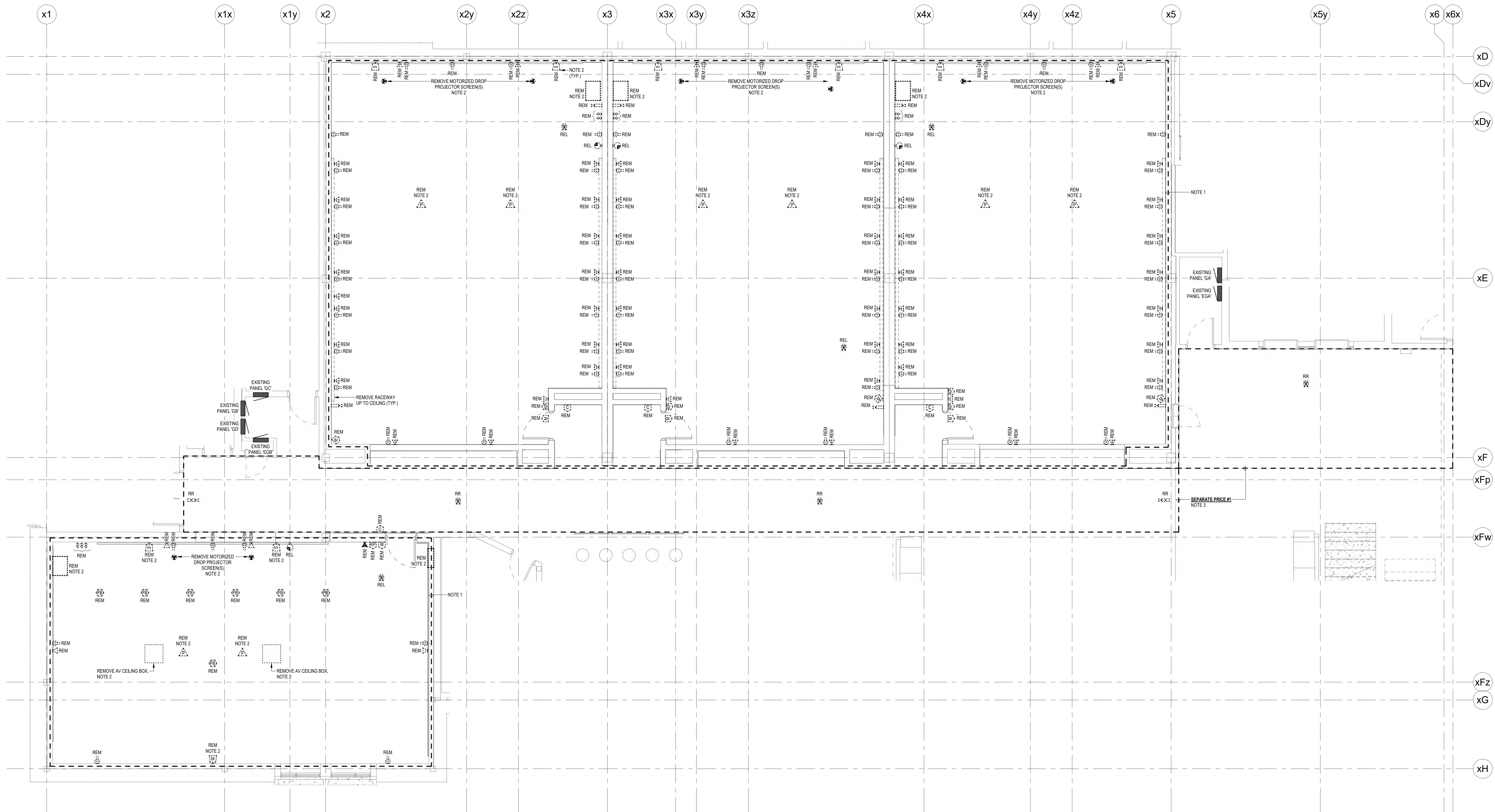


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**WU LHSB RENOVATION**  
WESTERN UNIVERSITY  
1151 Richmond St. London  
Project No: 10900.2  
Drawn By: KJC  
Rev Date: 05/26/26  
**ENLARGED GROUND FLOOR PLAN- LIGHTING AND FIRE ALARM DEMOLITION**

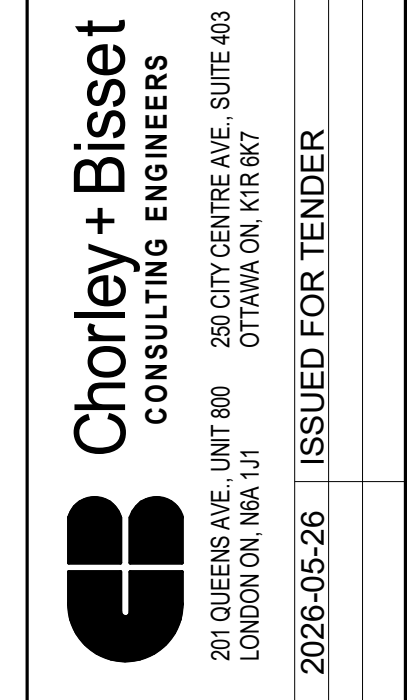
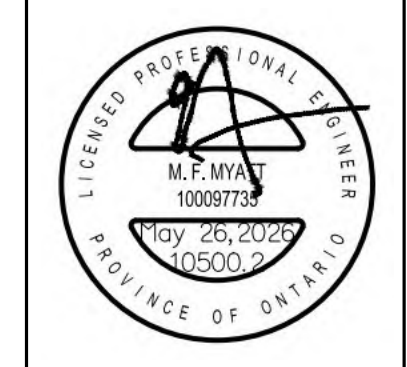
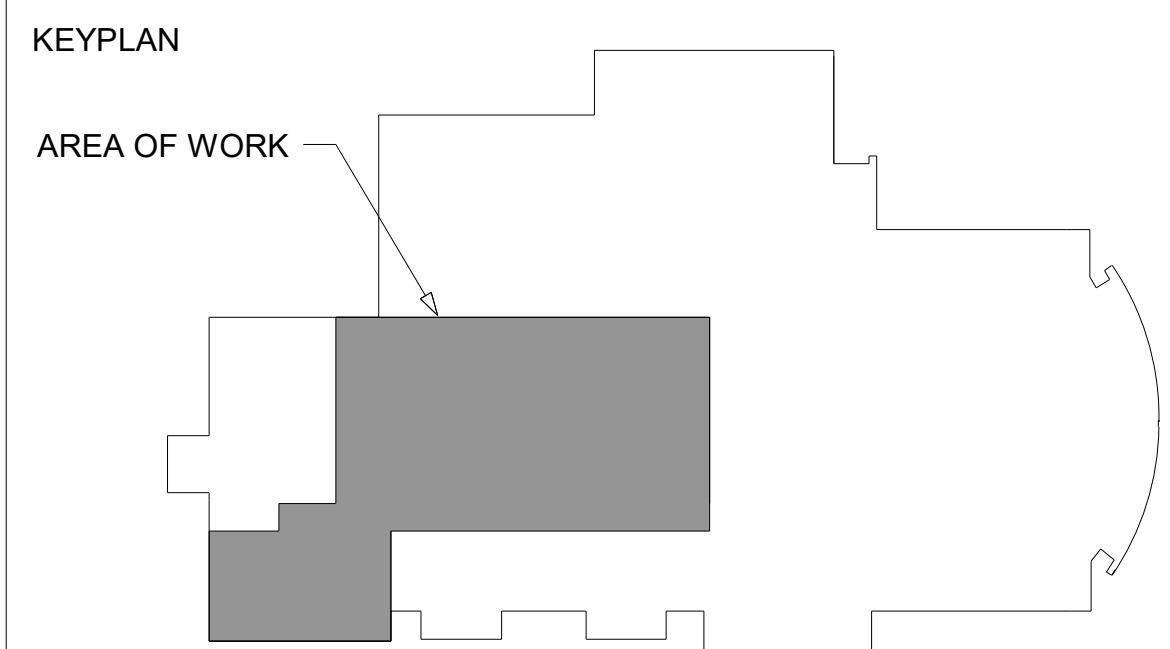




ENLARGED GROUND FLOOR PLAN - POWER AND SYSTEMS DEMOLITION  
SCALE: 1:50

NOTES:

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- IN GENERAL, WESTERN UNIVERSITY'S WTS DEPARTMENT TO SALVAGE EXISTING AV EQUIPMENT. DISCONNECT/DISASSEMBLE ALL PROJECTORS, PROJECTOR SCREENS, PROJECTOR POSTS FROM DECK, MICROPHONES AND SPEAKERS. TURN OVER ALL EQUIPMENT TO WESTERN UNIVERSITY.
- REMOVE AND REINSTALL EXISTING ELECTRICAL DEVICES AS REQUIRED TO SUIT RENOVATION WITHIN THE OUTLINED AREA. EXTEND/REWORK EXISTING WIRING, CONDUIT, CABLES AND CONTROLS TO SUIT. MAINTAIN SERVICES TO AREAS NOT UNDER CONSTRUCTION.



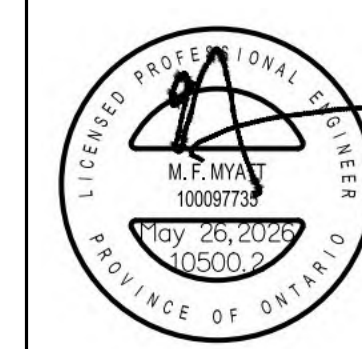
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1151 Richmond St. London

WESTERN UNIVERSITY  
Project No: 10900.2  
Drawn By: KDC  
Rev Date: 05/26/26

ENLARGED GROUND FLOOR PLAN - POWER AND SYSTEMS DEMOLITION





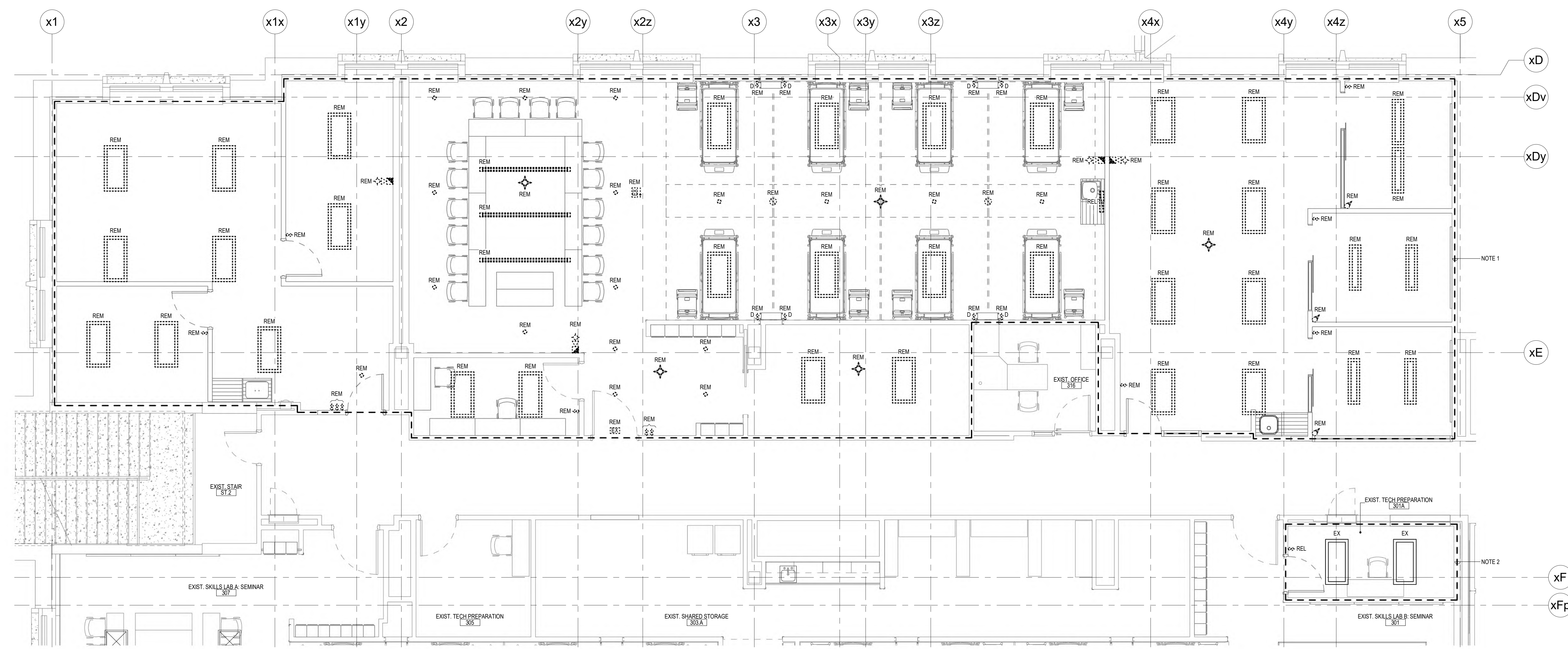
DO NOT SCALE. THE DRAWING AND DIMENSIONS ARE TO BE CHECKED FOR CONFORMANCE WITH THE REQUIREMENTS OF THE PROJECT. ANY DISCREPANCIES SHALL BE REPORTED TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK. THE CONSULTANT SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION AND MATERIALS PROVIDED. THE CONSULTANT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION AND MATERIALS PROVIDED BY OTHERS. THE CONSULTANT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION AND MATERIALS PROVIDED BY OTHERS. THE CONSULTANT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION AND MATERIALS PROVIDED BY OTHERS.

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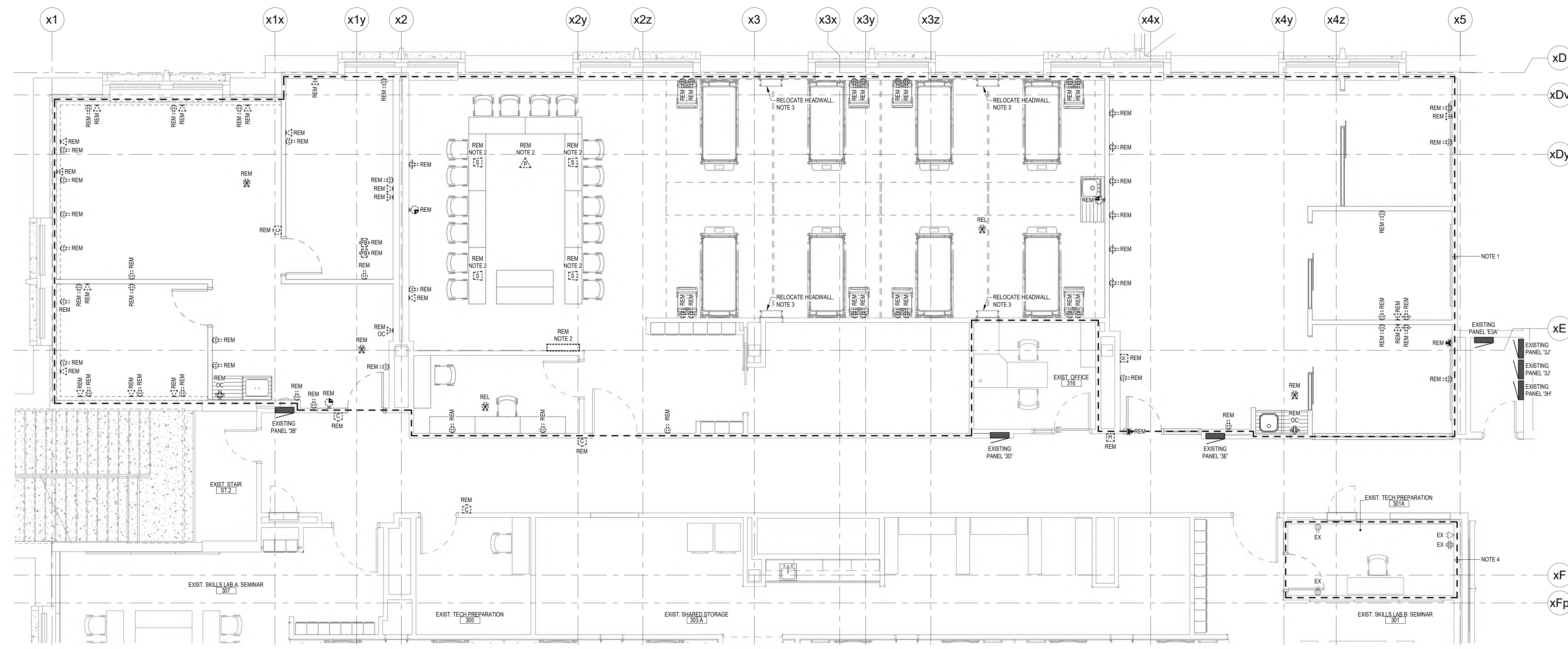
**WU LHSB RENOVATION**  
1155 Richmond St. London  
ENLARGED THIRD FLOOR PLANS - ELECTRICAL  
DEMOLITION  
Project No: 10500.2  
Drawn By: KJC  
Rev Date: 05/26/26

**E3.3**



**ENLARGED THIRD FLOOR PLAN - LIGHTING AND FIRE ALARM DEMOLITION**  
SCALE 1:50

- NOTES:
1. **DEVICES ARE SHOWN FOR REFERENCE PURPOSES ONLY. ACTUAL QUANTITIES MAY VARY.** COMPLETELY REMOVE ALL LIGHTING AND FIRE ALARM DEVICES WITHIN THE OUTLINED AREA UNLESS NOTED OTHERWISE. REMOVE ALL REDUNDANT WIRING, CONDUIT, CABLEING AND CONTROLS BACK TO SOURCE. MAINTAIN SERVICES TO AREAS NOT UNDER CONSTRUCTION.
  2. **DEVICES ARE SHOWN FOR REFERENCE PURPOSES ONLY. ACTUAL QUANTITIES MAY VARY.** IN GENERAL, REMOVE AND REINSTALL/RELOCATE EXISTING ELECTRICAL DEVICES AS REQUIRED TO SUIT RENOVATION WITHIN THE OUTLINED AREA. EXTEND/REWORK EXISTING WIRING, CONDUIT, CABLEING AND CONTROLS TO SUIT. MAINTAIN SERVICES TO AREAS NOT UNDER CONSTRUCTION.



**ENLARGED THIRD FLOOR PLAN - POWER AND SYSTEMS DEMOLITION**  
SCALE 1:50

- NOTES:
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  3. REMOVE HEADWALL, ALL ASSOCIATED DEVICES AND WIRING. TURN HEADWALL OVER TO WESTERN UNIVERSITY FOR RELOCATION.
  4. **DEVICES ARE SHOWN FOR REFERENCE PURPOSES ONLY. ACTUAL QUANTITIES MAY VARY.** IN GENERAL, REMOVE AND REINSTALL/RELOCATE EXISTING ELECTRICAL DEVICES AS REQUIRED TO SUIT RENOVATION WITHIN THE OUTLINED AREA. EXTEND/REWORK EXISTING WIRING, CONDUIT, CABLEING AND CONTROLS TO SUIT. MAINTAIN SERVICES TO AREAS NOT UNDER CONSTRUCTION.

