


















































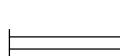











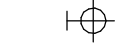

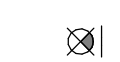

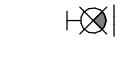

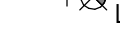

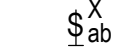


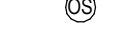

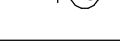
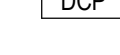
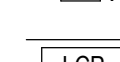


POWER SINGLE LINE DIAGRAM SYMBOLS			
	CKT BREAKER, "###" INDICATES TRIP SETTING, "F" INDICATES NUMBER OF POLES		KIRK KEY INTERLOCK
	DRAW-OUT CKT BREAKER, "###" INDICATES TRIP SETTING, "F" INDICATES NUMBER OF POLES		AUTOMATIC TRANSFER
	FUSED SWITCH, "###" INDICATES TRIP SETTING, "F" INDICATES NUMBER OF POLES		SURGE PROTECTIVE DEVICE
	ENCLOSED CIRCUIT BREAKER		DIGITAL MULTIMETER
	ENCLOSED NON-FUSED SWITCH		UTILITY METER
	ENCLOSED FUSED SWITCH		GROUND
	AUTOMATIC/MANUAL TRANSFER SWITCH		POTENTIAL TRANSFORMER
	TRANSFORMER		CURRENT TRANSFORMER
	GENERATOR		DISCONNECT SWITCH (NON-FUSED / FUSED AS INDICATED)
	PANELBOARD		COMBINATION MOTOR STARTER DISCONNECT
			MOTOR STARTER
			VARIABLE FREQUENCY DRIVE


































POWER DISTRIBUTION AND SMALL POWER			
	DUPLEX RECEPTACLE, WALL MOUNTED		DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED
	DUPLEX RECEPTACLE, AT HIGH LEVEL OR ABOVE BACKSPASH OF CABINET, COUNTERTOP OR SINK		DOUBLE DUPLEX RECEPTACLE, AT HIGH LEVEL OR ABOVE BACKSPASH OF CABINET, COUNTERTOP OR SINK
	DUPLEX RECEPTACLE, FLUSH MTD IN CEILING		DOUBLE DUPLEX RECEPTACLE, FLUSH MOUNTED IN CEILING
	HALF SWITCHED DUPLEX RECEPTACLE, WALL MOUNTED		SIMPLEX RECEPTACLE, WALL MOUNTED
	SPECIAL PURPOSE RECEPTACLE, WALL MOUNTED, NEMA CONFIGURATION AS NOTED ON PLANS		SPECIAL PURPOSE RECEPTACLE, CEILING MOUNTED NEMA CONFIGURATION AS NOTED ON PLANS
	DUPLEX RECEPTACLE, FLOOR MOUNTED		SPECIAL FLOORBOX, "F" INDICATES UNIQUE FLOORBOX TYPE
	DOUBLE DUPLEX RECEPTACLE, FLOOR MOUNTED		FURNITURE OUTLET, WALL MOUNTED
	DIRECT CONNECTION, WALL MOUNTED, SUBSCRIPT "X" INDICATES UNIQUE IDENTIFIER		GROUND BUS BAR
	DIRECT CONNECTION, CEILING MOUNTED, SUBSCRIPT "X" INDICATES UNIQUE IDENTIFIER		PANELBOARD (FLOOR PLAN)
	MOTOR, SUBSCRIPT "X" DENOTES MOTOR DESIGNATION, REFER TO EQUIPMENT CONNECTION SCHEDULE		TRANSFORMER (FLOOR PLAN)
	JUNCTION BOX, WALL MOUNTED		JUNCTION BOX, CEILING MOUNTED














X	RECEPTACLE TYPE / LOAD TYPE
#	PANEL.#
#	NUMBER INDICATES BRANCH CIRCUIT NUMBER
FOR ABOVE DEVICES, SUBSCRIPT "X" INDICATE:	
20A HK	- NEMA 6-20R TYPE FOR HOUSEKEEPING
20A	- NEMA 6-20R TYPE
20A MIC	- NEMA 6-20R TYPE FOR MICROWAVE
20A REF	- NEMA 6-20R TYPE FOR REFRIGERATOR
20A VM	- NEMA 6-20R TYPE FOR VENDING MACHINE
20A PRT	- NEMA 6-20R TYPE FOR PRINTER
CHT	- NEMA 5-15R TYPE FOR CHARGE TABLE
GFI	- NEMA 5-15R TYPE WITH GFI PROTECTION
TV	- NEMA 5-15R AT 1.8M (6') AFF OR AT INDICATED HEIGHT FOR TV DISPLAY
REF	- NEMA 5-15R TYPE FOR SMALL REFRIGERATOR
TL	- NEMA L5-15R TWIST LOCK TYPE
TP	- NEMA 5-15R TAMPER PROOF TYPE
WP	- NEMA 5-15R WEATHER PROOF TYPE
GP	- NEMA 5-15R EXPLOSION PROOF TYPE



















DEVICE MOUNTING HEIGHT NOTES:
IF THE OUTLET MOUNTING HEIGHT DOES NOT MATCH THE INTERIOR DESIGN DRAWINGS, THE MOUNTING HEIGHT AND DIMENSIONED LOCATION MARKED ON THE INTERIOR DESIGN DRAWINGS SHALL PREVAIL.

CIRCUITING		
	PANEL NAME: 12	CIRCUIT NUMBER
		PANEL DESIGNATION (SEE SPECS 26.05.00)
	3#12AWG + G IN 21mmC	CONDUIT SIZE
		GROUND CONDUCTOR AS PER OESC
		CIRCUIT CONDUCTOR QUANTITY AND SIZE

LIGHTING, LIGHTING SWITCHING & CONTROLS			
	UPPER CASE LETTERS INDICATE LIGHTING FIXTURE TYPE		
	NUMBER INDICATES CIRCUIT NUMBER, LOWER CASE LETTER INDICATES SWITCH/LEG		
	LIGHTING FIXTURE ON NORMAL BRANCH POWER - CEILING MOUNTED		LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST - CEILING MOUNTED
	LIGHTING FIXTURE ON NORMAL BRANCH POWER - WALL MOUNTED		LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST - WALL MOUNTED
	STRIP LIGHTING FIXTURE ON NORMAL BRANCH POWER		STRIP LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST
	PENDANT LINEAR FIXTURE ON NORMAL BRANCH POWER		PENDANT LINEAR FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST
	DOWNLIGHT LIGHTING FIXTURE ON NORMAL BRANCH POWER - RECESSED / PENDANT MOUNTED		DOWNLIGHT LIGHTING FIXTURE ON EMERGENCY BRANCH POWER - RECESSED / PENDANT MOUNTED
	WALL WASH LIGHTING FIXTURE ON NORMAL BRANCH POWER - ARROW INDICATES DIRECTION OF BEAM		WALL WASH LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST - ARROW INDICATES DIRECTION OF BEAM
	WALL SCONCE LIGHTING FIXTURE ON NORMAL BRANCH POWER - WALL MOUNTED		WALL SCONCE LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST - WALL MOUNTED
	EXIT SIGN - SINGLE FACE - CEILING MOUNTED		EXIT SIGN - DUAL FACE - CEILING MOUNTED
	EXIT SIGN - SINGLE FACE - WALL MOUNTED		EXIT SIGN - DUAL FACE - WALL MOUNTED
	LOW LEVEL EXIT SIGN - SINGLE FACE - WALL OR DOOR MOUNTED		SINGLE REMOTE EMERGENCY LIGHT - WALL MOUNTED
	DUAL HEAD EMERGENCY LIGHT WITH INTEGRAL BATTERY PACK - WALL MOUNTED		DUAL REMOTE EMERGENCY LIGHT - WALL MOUNTED
	SPST SWITCH, WALL MOUNTED, "W" INDICATES INDIVIDUAL GANGED SWITCHES AND ASSOCIATED SWITCH LEGS CONTROLLED, SUBSCRIPT "X" INDICATES:		
	2 - DOUBLE POLE		LV - LOW VOLTAGE
	3 - THREE WAY		P - PILOT LIGHT
	4 - FOUR WAY		T - WALL BOX TIMER
	D - WALL BOX DIMMER		WP - WEATHER PROOF
	K - KEY OPERATED		VS - CW VACANCY SENSOR
	OCCUPANCY SENSOR, CEILING MOUNTED		
	OCCUPANCY SENSOR, WALL MOUNTED		
	VACANCY SENSOR, CEILING MOUNTED		
	VACANCY SENSOR, WALL MOUNTED		
	DIMMING CONTROL, PANEL, SUBSCRIPT "X" INDICATES TYPE		
	DIMMING CONTROL, STATION, SUBSCRIPT "X" INDICATES TYPE OR UNIQUE IDENTIFIER		
	LIGHTING CONTROL PANEL		
	SHUNT TRIP PUSH BUTTON		
	TIME CLOCK, SUBSCRIPT "X" INDICATES ZONE SERVED		
	DAYLIGHT SENSOR, SUBSCRIPT "X" INDICATES ZONE SERVED		
	ROOM CONTROLLER		



FIRE ALARM SYSTEM			
 Xxsf	FIRE ALARM STROBE, WALL MOUNTED, Xxsf INDICATES STROBE CANDELA RATING	 Xxsf	FIRE ALARM STROBE, CEILING MOUNTED, Xxsf INDICATES STROBE CANDELA RATING
	FIRE ALARM HORN, WALL MOUNTED		FIRE ALARM HORN, CEILING MOUNTED
 Xxsf	FIRE ALARM HORNSTROBE, WALL MOUNTED, Xxsf INDICATES STROBE CANDELA RATING	 Xxsf	FIRE ALARM HORNSTROBE, CEILING MOUNTED, Xxsf INDICATES STROBE CANDELA RATING
	FIRE ALARM SPEAKER, WALL MOUNTED		FIRE ALARM SPEAKER, CEILING MOUNTED
	FIRE ALARM SPEAKERSTROBE, WALL MOUNTED		FIRE ALARM SPEAKERSTROBE, CEILING MOUNTED
	FIRE ALARM BELL, WALL MOUNTED		FIRE ALARM PULL STATION
	HEAT DETECTOR, WALL MOUNTED		HEAT DETECTOR, CEILING MOUNTED
	SMOKE DETECTOR, WALL MOUNTED		SMOKE DETECTOR, CEILING MOUNTED
	SMOKE DETECTOR, DUCT MOUNTED		FIRE SMOKE DAMPER
	CARBON MONOXIDE DETECTOR		SMOKE DAMPER
	FIREFIGHTERS TELEPHONE OUTLET		COMBINATION SMOKE ALARM AND CARBON MONOXIDE DETECTOR
	REMOTE INDICATOR LIGHT		TAMPER SWITCH
 FACP	FIRE ALARM CONTROL PANEL	 TPS	REMOTE TEST STATION
 FAP	FIRE ALARM REMOTE ANNUNCIATOR PANEL	 FS	FLOW SWITCH
 DGP	DATA GATHERING PANEL	 SV	SUPERVISORY VALVE
 FATC	FIRE ALARM TERMINAL CABINET		ELECTRO-MAGNETIC DOOR HOLDER
 FATP	FIRE ALARM TRANSPONDER PANEL		

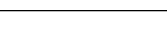
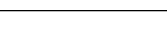


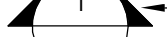
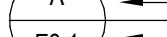
TELECOMMUNICATIONS SYSTEM			
	WALL MOUNT VOICE OUTLET		FLOOR MOUNT VOICE OUTLET
	WALL MOUNT DATA OUTLET		FLOOR MOUNT DATA OUTLET
	WALL MOUNT DATA/VOICE OUTLET		FLOOR MOUNT DATA/VOICE OUTLET
	CEILING MOUNT VOICE OUTLET		WIRELESS ACCESS POINT (SUPPLIED BY OWNER & INSTALLED BY CONTRACTOR)
	CEILING MOUNT DATA OUTLET		CEILING MOUNT DATA/VOICE OUTLET
DEVICE SUBSCRIPT "X" INDICATE OUTLET QUANTITY:			
	NUMBER OF DATA JACKS		NUMBER OF DATA/VOICE JACKS
	NUMBER OF VOICE JACKS		
NO QUANTITY SUBSCRIPT = (1) DATA/VOICE			
DEVICE SUBSCRIPT "Y" INDICATE OUTLET MOUNTING / PURPOSE:			
C	ABOVE BACKSPASH OF CABINET / COUNTERTOP	AC	ACCESS CONTROL DATA
F	MODULAR FURNITURE MOUNTED	SVC	SURVEILLANCE VIDEO CAMERA DATA
AV	AUDIOVISUAL COMMUNICATIONS DATA	BAS	BUILDING BAS DATA
TV	TV DISPLAY DATA	EM	ELECTRICAL METERING DATA
W	WALL PHONE OUTLET AT 1.1M (45") AFF	PA	PAGING (PUBLIC ADDRESS) SPEAKER DATA
WAP	WIRELESS ACCESS POINT DATA	LC	LIGHTING CONTROL SYSTEM DATA
AT	(2.4M (8') AFF OR AS INDICATED)	TC	TIME CLOCK DATA
BLANK	MOUNTED AT 450MM (18") AFF		
	(AT 0.9M (3') AFF OR AS INDICATED)		
DEVICE MOUNTING HEIGHT NOTES:			
1. IF THE OUTLET MOUNTING HEIGHT DOES NOT MATCH THE INTERIOR DESIGN DRAWINGS, THE MOUNTING HEIGHT AND DIMENSIONED LOCATION MARKED ON THE INTERIOR DESIGN DRAWINGS SHALL PREVAIL.			
2. IF THE OUTLET IS DESIGNATED FOR A WALL MOUNT, CEILING HUNG EQUIPMENT, COORDINATE THE MOUNTING HEIGHT AND LOCATION WITH INSTALLATION OF SUCH EQUIPMENT			
ELECTRICAL ROUGH IN NOTES FOR WALL MOUNT DEVICES:			
1. PROVIDE A 119MM SQUARE BY 54MM (4 11/16" SQUARE BY 2 1/8") DEEP BACK BOX WITH A SINGLE GANG REDUCTION RING AT EACH LOCATION, UNO.			
2. PROVIDE A 27MM (1") CONDUIT ROUTED BETWEEN THE BACK BOX AND THE NEAREST CABLE PATHWAY, UNO.			
3. FLUSH MOUNT OUTLET FACEPLATE TO WALL, UNO.			
ELECTRICAL ROUGH IN NOTES FOR FLOOR MOUNT DEVICES:			
1. MOUNT OUTLET IN FLOOR BOX OR FLOOR MOUNT BACK BOX PROVIDED BY THE ELECTRICAL CONTRACTOR. REFER TO THE ELECTRICAL PLANS AND SPECIFICATIONS FOR DETAILS, UNO.			
2. PROVIDE A 27MM (1") CONDUIT ROUTED BETWEEN THE BACK BOX AND THE NEAREST CABLE PATHWAY, UNO.			
3. FLUSH MOUNT OUTLET FACEPLATE TO CEILING, UNO.			
ELECTRICAL ROUGH IN NOTES FOR CEILING MOUNT DEVICES:			
1. PROVIDE A 119MM SQUARE BY 54MM (4 11/16" SQUARE BY 2 1/8") DEEP BACK BOX WITH A SINGLE GANG REDUCTION RING AT EACH LOCATION, UNO.			
2. PROVIDE A 27MM (1") CONDUIT ROUTED BETWEEN THE BACK BOX AND THE NEAREST CABLE PATHWAY, UNO.			
3. FLUSH MOUNT OUTLET FACEPLATE TO CEILING, UNO.			

SECURITY SYSTEM			
	ACCESS CONTROL PANEL		AUTO DOOR OPERATOR
	DOOR CONTACT		CARD READER
	ELECTRIFIED LOCKSET		XSD SALT TO BATTERY OPERATED LOCK WITH CARD READER
	ELECTRIC STRIKE		KEYPAD
	POWER TRANSFER		ACCESS CONTROL GATEWAY
	REQUEST TO EXIT DEVICE (SEPARATE / BUILT INTO THE LOCK OR PANIC DEVICE)		PUSH BUTTON
	REQUEST TO EXIT PUSH BUTTON		PUSH PLATE
	CCTV CAMERA, WALL-MOUNTED		MOTION SENSOR
	CCTV CAMERA, CEILING-MOUNTED		SECURITY SYSTEM POWER SUPPLY

AUDIOVISUAL SYSTEM DEVICES		
DEVICE LEGEND		
AVX	AV CONNECTIVITY PLATE	"Y" DENOTES AV OUTLET TYPE, REFER TO AV SYSTEMS DETAILS
D	DISPLAY	
TV	TELEVISION OUTLET	
PRS	PROJECTOR SCREEN	
PRJ	PROJECTOR	
CAM	AV SYSTEM CAMERA	
IRR	INFRARED RADIATOR	
ANT	ANTENNA	
ROS	AV SYSTEM ROOM OCCUPANCY SENSOR	
PS	AV SYSTEM PARTITION SENSOR	
PA	PAGING (PUBLIC ADDRESS) SPEAKER (CEILING / WALL MOUNT)	
NOTE: ALL NEW PAGING SPEAKERS SHALL BE IP BASED, AS SPECIFIED. CONTRACTOR PROVIDES TWO DATA CABLES FROM DESIGNATED TR TO EACH SPEAKER WITH MINIMUM 6 FEET (2M) SLACK CABLE AT SPEAKER LOCATION.)		
MIC	MICROPHONE	
TS	TOUCH SCREEN	
RSP	ROOM SCHEDULING PANEL	
BP	BUTTON PANEL	
S	AV SYSTEM SPEAKER	
SUB	SUBWOOFER SPEAKER	
LCR	LOCAL CREDENZA RACK	
AVR	AV RACK	

ABBREVIATIONS			
A	ANALOG	MCB	MAIN CIRCUIT BREAKER
AFCI	ARC FAULT CIRCUIT INTERRUPTOR	MCC	MOTOR CONTROL CENTER
AFF	ABOVE FINISHED FLOOR	MD	MOTORIZED DAMPER
ATS	AUTOMATIC TRANSFER SWITCH	MH	MOUNTING HEIGHT
CK	CLOCK HANGER	NC	NORMALLY CLOSED
CL	CEILING MOUNTED	NO	NORMALLY OPEN
EMT	ELECTRICAL METALLIC TUBING	OC	OVER THE COUNTER
EP	EXPLOSION PROOF	PTZ	PAN, TILT, ZOOM
F	FURNITURE OR MILLWORK MOUNTED	ST	SHUNT TRIP
FL	FLOOR MOUNTED	TP	TAMPER PROOF
GFI	GROUND FAULT CIRCUIT INTERRUPTER	WP	WEATHER PROOF
GFI	GROUND FAULT INTERRUPTER	UND	UNLESS NOTED OTHERWISE

DEMOLITION			
<R>	EXISTING TO BE REMOVED	-----	DEMOLITION CONDUIT / FEEDER
<RL>	EXISTING TO BE RELOCATED		DEMOLITION EQUIPMENT
<EX>	EXISTING TO REMAIN	-----	EXISTING TO REMAIN CONDUIT / FEEDER
<NL>	EXISTING AT NEW LOCATION		EXISTING TO REMAIN EQUIPMENT
<RW>	EXISTING TO BE RE-WIRED TO DESIGNATED PANEL	-----	

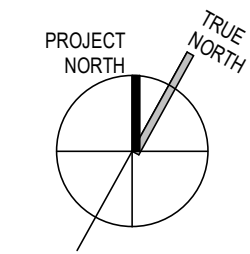
TAGS AND CALL OUT SYMBOLS			
	SECTION CALLOUT		DETAIL CALLOUT
	SECTION DESIGNATION SHEET NUMBER		DETAIL DESIGNATION SHEET NUMBER
	REVISION CALLOUT		KEYNOTE CALLOUT

MISCELLANEOUS DEVICES		
	JUNCTION BOX, WALL MOUNTED	
	JUNCTION BOX, CEILING MOUNTED	
	CONTACTOR, SUBSCRIPT "X" INDICATES UNIQUE IDENTIFIER	
	CONTROL RELAY & REQUIRED INPUT/OUTPUT MODULE	
	PUSH TO LOCK DEVICE (UNV, WIR)	
	LEAK OCCUPIED INDICATOR (UNV, WIR)	
	PRESS FOR EMERGENCY ASSISTANCE 'STRIP' (BUTTON (UNV, WIR)	
	ASSISTANCE REQUESTED ANNUNCIATOR (DOME LIGHT) WITH SOUNDER (UNV, WIR)	

DRAWING LIST		
SHEET #	DESCRIPTION	SCALE
E-001	ELECTRICAL DRAWING LIST, LEGENDS & GENERAL NOTES	N.T.S.
E-101	ELECTRICAL KEY PLANS	1:100
E-102	ELECTRICAL KEY PLANS	1:100
E-103	PARTIAL LEVEL 1 - POWER & SYSTEMS DEMOLITION	1:100
E-104	PARTIAL LEVEL 1 & PATIENT LOBBY LEVEL - ELECTRICAL DEMOLITION	1:100
E-105	PARTIAL LEVEL 2 - POWER & SYSTEMS DEMOLITION	1:100
E-106	PARTIAL LEVEL 2 - LIGHTING & FIRE ALARM DEMOLITION	1:100
E-107	PARTIAL LEVEL 3 - ELECTRICAL DEMOLITION	1:100
E-108	PARTIAL LEVEL 4 & 5 - POWER & SYSTEMS DEMOLITION	1:100
E-201	BASEMENT - POWER & SYSTEMS	1:100
E-202	PARTIAL LEVEL 1 & PATIENT LOBBY LEVEL - POWER & SYSTEMS	1:100
E-203	PARTIAL LEVEL 2 - POWER & SYSTEMS	1:100
E-204	PARTIAL LEVEL 3 - POWER & SYSTEMS	1:50
E-205	PARTIAL LEVEL 4 & 5 - POWER & SYSTEMS	1:100
E-301	PARTIAL LEVEL 1 & PATIENT LOBBY LEVEL - LIGHTING & FIRE ALARM	1:100
E-302	PARTIAL LEVEL 2 & LEVEL 3 - LIGHTING & FIRE ALARM	1:100
E-401	PATIENT LOBBY LEVEL - SECURITY & PAGING	1:100
E-402	PARTIAL LEVEL 2 - SECURITY & PAGING	1:100
E-501	SINGLE LINE DIAGRAM	N.T.S.
E-502	LIGHTING CONTROL SYSTEM DIAGRAM	N.T.S.
E-503	COMMUNICATIONS RISER DIAGRAM	N.T.S.
E-601	ELECTRICAL SCHEDULES	N.T.S.
E-602	PANEL SCHEDULES (1)	N.T.S.
E-603	PANEL SCHEDULES (2)	N.T.S.
E-604	PANEL SCHEDULES (3)	N.T.S.
E-701	ELECTRICAL DETAILS	N.T.S.
E-702	ELECTRICAL DETAILS	N.T.S.

GENERAL NOTES

1. ELECTRICAL DOCUMENTS ARE BASED ON AVAILABLE INFORMATION AND SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL, INTERIOR DESIGN, STRUCTURAL, MECHANICAL AND ELEVATOR CONSULTANT DOCUMENTS.
2. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL ARRANGEMENTS OF ELECTRICAL AND SYSTEMS DEVICES. THE ROUTING OF SERVICES SHOWN ARE DIAGRAMMATIC TO SHOW DESIGN INTENT. THE FINAL LOCATION AND ELEVATION OF ALL ELECTRICAL AND SYSTEMS DEVICES SHALL BE COORDINATED WITH ARCHITECTURAL/INTERIOR DESIGNER'S PACKAGES. REPORT ANY DISCREPANCIES TO CONSULTANT.
3. MODIFY EXISTING FIRE ALARM SYSTEM TO SUIT NEW FLOOR PLAN AND AS REQUIRED BY APPLICABLE CODES AND AUTHORITY HAVING JURISDICTION.
4. MAINTAIN EXISTING FIRE ALARM, EXIT SIGNS AND EMERGENCY LIGHTS IN FULL OPERATION DURING THE ENTIRE CONSTRUCTION STAGE. WHERE DISRUPTION TO LIFE SAFETY SYSTEM ARE REQUIRED, REPORT TO HOSPITAL. PROVIDE CONTINUOUS MONITORING DURING SHUT DOWN PERIOD AND ENSURE THAT ALL SYSTEMS ARE REACTIVATED PRIOR TO LEAVING THE SITE AT THE END OF EACH WORKING DAY.
5. PROVIDE ELECTRICAL COORDINATION WITH MECHANICAL EQUIPMENT SELECTION AND LOCATION. REFER TO MECHANICAL EQUIPMENT SCHEDULES FOR DETAILS. PROVIDE CONNECTION TO VFDs, STARTERS, SWITCHES, AND CONTROL BASED ON MECHANICAL DOCUMENTS. VERIFY THE FINAL LOCATION OF MECHANICAL EQUIPMENT PRIOR TO INSTALLATION. REFER TO MECHANICAL EQUIPMENT / MOTOR CONTROL DETAIL FOR FURTHER DETAILS.
6. THE ELECTRICAL DRAWINGS INCLUDE LIGHTING LAYOUTS AND LIGHTING CONTROL. FINAL LOCATION OF LIGHTING FIXTURES SHALL BE COORDINATED WITH ARCHITECT'S SELECTED CEILING GRID AND MECHANICAL LAYOUT. ENSURE LIGHTING CONTROL WILL TURN ON LIGHT FIXTURES ON EMERGENCY POWER TO FULL BRIGHTNESS IN FIRE ALARM EVENT.
7. WIRELESS ACCESS POINTS SHOWN HEREIN ARE ILLUSTRATIVE ONLY. QUANTITIES AND LOCATIONS ARE PROPOSED FOR 10/10T WIRELESS.
8. DOOR HARDWARE SCHEDULE BY DOOR HARDWARE CONSULTANT. REFER TO ARCHITECTURAL FLOOR PLANS FOR DOOR HOLD OPEN DEVICE LOCATIONS AND OTHER DOOR HARDWARE INFORMATION.
9. CONTRACTOR SHALL IDENTIFY AND LABEL CLEARLY ALL CIRCUITS, WIRING, SERVICES, JUNCTION BOXES, PULL BOXES, DEVICES AND EQUIPMENT INSTALLED AND CONNECTED UNDER THE SCOPE OF WORK OF THIS PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND LABELING ALL DEVICES AND EQUIPMENT WITH PERMANENT LAMINATED TYPE. COORDINATE ALL LABELING WITH THE OWNER AND CONSULTANTS.
10. CONTRACTOR SHALL INCLUDE FOR PAYMENT OF REQUIREMENT PERMITS, FEES, LICENCES, CERTIFICATES OF INSPECTION, ETC. IF REQUIRED.
11. WIRING AND CABLES EXPOSED WITHIN THE CEILING SPACES SHALL CONFORM TO THE PLenum REQUIRMENTS OF NATIONAL BUILDING CODE SECTION 3.6.4.3.1.1.
12. ROUGHIN AND POWER SUPPLY FOR TV DISPLAYS & PAGING SPEAKERS ARE BASED ON OWNER'S REQUEST. CONFIRM WITH THE OWNER FOR ANY DISCREPANCY OR CLARIFICATION.
13. CABLE AND CONDUIT SIZES INDICATED ON DRAWINGS ARE MINIMUM SIZES AND SHALL BE INCREASED BASED ON CURRENT ROUTING AND VOLTAGE.
14. PROVIDE POWER AND DATA CONNECTIONS FOR ALL BAS PANELS REQUIRED ON PROJECT. COORDINATE WITH MECHANICAL CONTRACTOR AND BAS SUPPLIER FOR EXACT LOCATION AND REQUIREMENTS.
15. ALL EXISTING ELECTRICAL SYSTEMS, INCLUDING BUT NOT LIMITED TO EQUIPMENT DEVICES AND CONNECTIONS, SHALL REMAIN UNLESS SPECIFICALLY NOTED TO BE REMOVED.
16. ALL OPENINGS, IF APPLICABLE, SHALL BE SEALED WITH APPROVED FIRE STOP MATERIAL, ANY FIREPROOFING MATERIAL, REMOVED WILL BE REPLACED WITH A SUITABLE AND APPROVED FIREPROOFING MATERIAL, AND SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS TO APPLICABLE BUILDING AND FIRE CODES.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REFINISHING OF DAMAGED BUILDING AREAS AND FINISHES AFFECTED BY THE WORK AS OUTLINED UNDER SCOPE OF WORK OF THIS PROJECT. SHOULD ANY EXISTING SYSTEM BE DAMAGED, MAKE FULL REPAIRS/REPLACES WITHOUT EXTRA COST, AND TO THE SATISFACTION OF THE OWNER.
18. CONTRACTOR IS RESPONSIBLE FOR WRITE NOTIFICATION TO OWNER FOR ANY SHUTDOWN REQUIRED. SHUTDOWN SHALL BE PROVIDED AS PER HOUR/PER DAY/PER WEEK/PER MONTH/PER YEAR/PER SEASON/PER YEAR IN GENERAL.
19. CONTRACTOR IS RESPONSIBLE FOR STORAGE AND PROTECTION OF ALL EXISTING ITEMS WHICH WILL BE RELOCATED/REMOVED IN THIS PROJECT.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL THE WORK WITH ALL OTHER TRADES, CONSULTANTS, AND THE OWNER. ALL WORK SHALL BE SCHEDULED AND CARRIED OUT BY THE CONTRACTOR IN A MANNER TO ENSURE CONTINUED AND NON-INTERRUPTED OPERATION OF EXISTING FACILITY.
21. FOR ALL EXISTING EQUIPMENT AND DEVICES TO BE DEMOLISHED, INCLUDING POWER PANELS, LIGHTING FIXTURES, ETC., RETURN TO THE OWNER, UNLESS OTHERWISE AS REQUIRED BY THE OWNER.



7	29 MAY 2020	ISSUED FOR TENDER	EXP
6	19 JAN 2020	ISSUED FOR 10% CD	EXP
5	05 DEC 2020	ISSUED FOR BUILDING PERMIT	EXP
4	26 NOV 2020	RE-ISSUED FOR 80% CD	EXP
3	26 SEPT 2020	ISSUED FOR 80% CD	EXP
2	20 MAY 2020	ISSUED FOR 100% CD	EXP
1	02 MAY 2020	ISSUED FOR CDD PROGRESS SET	EXP
#	DATE	REVISION	BY
REVISIONS			

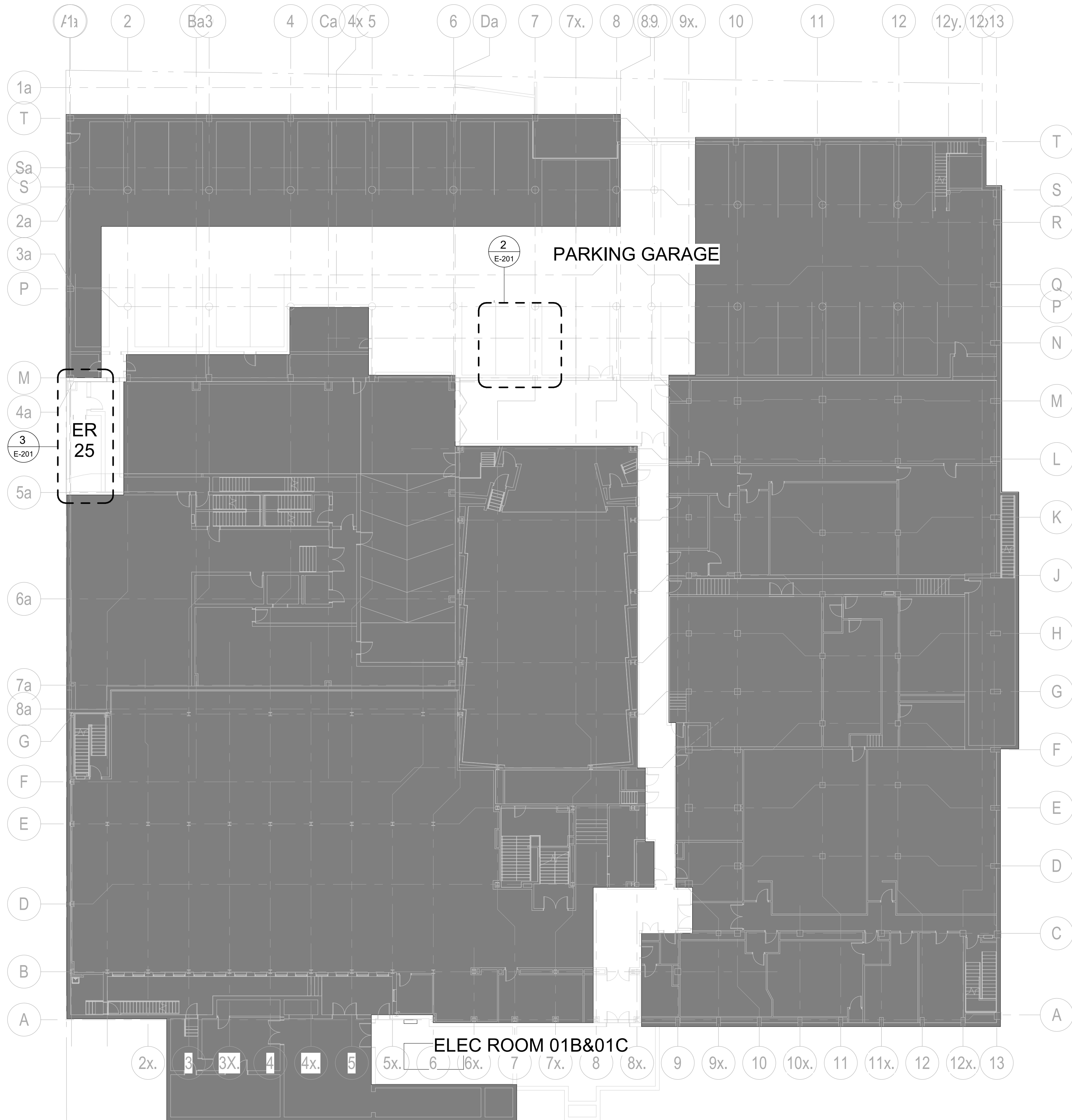
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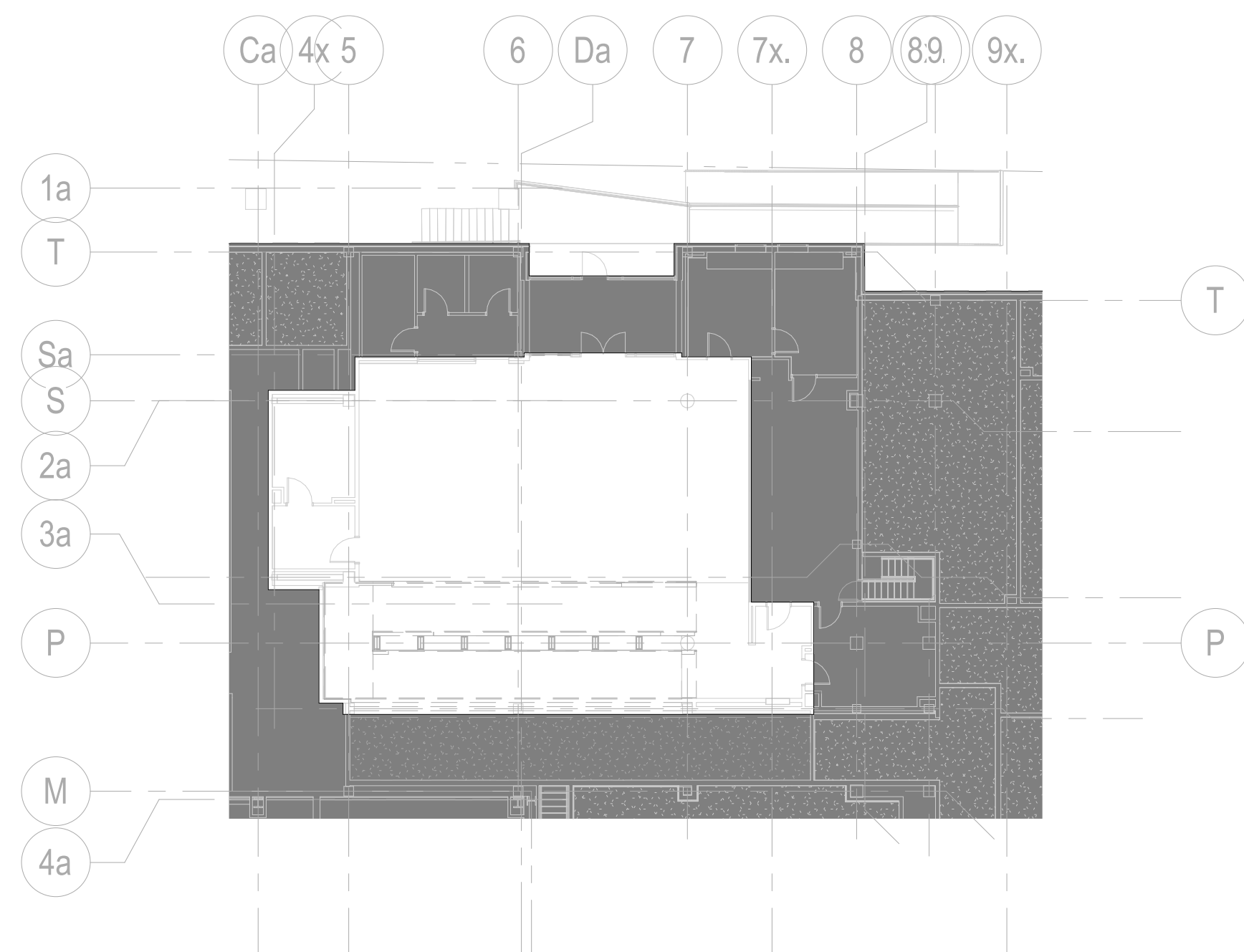
ELECTRICAL KEY PLANS

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DRAWN BY: Author
REVIEWED BY: Checker
JOB NUMBER: MRK-21019389-A0
PLOT DATE: 06/12/25

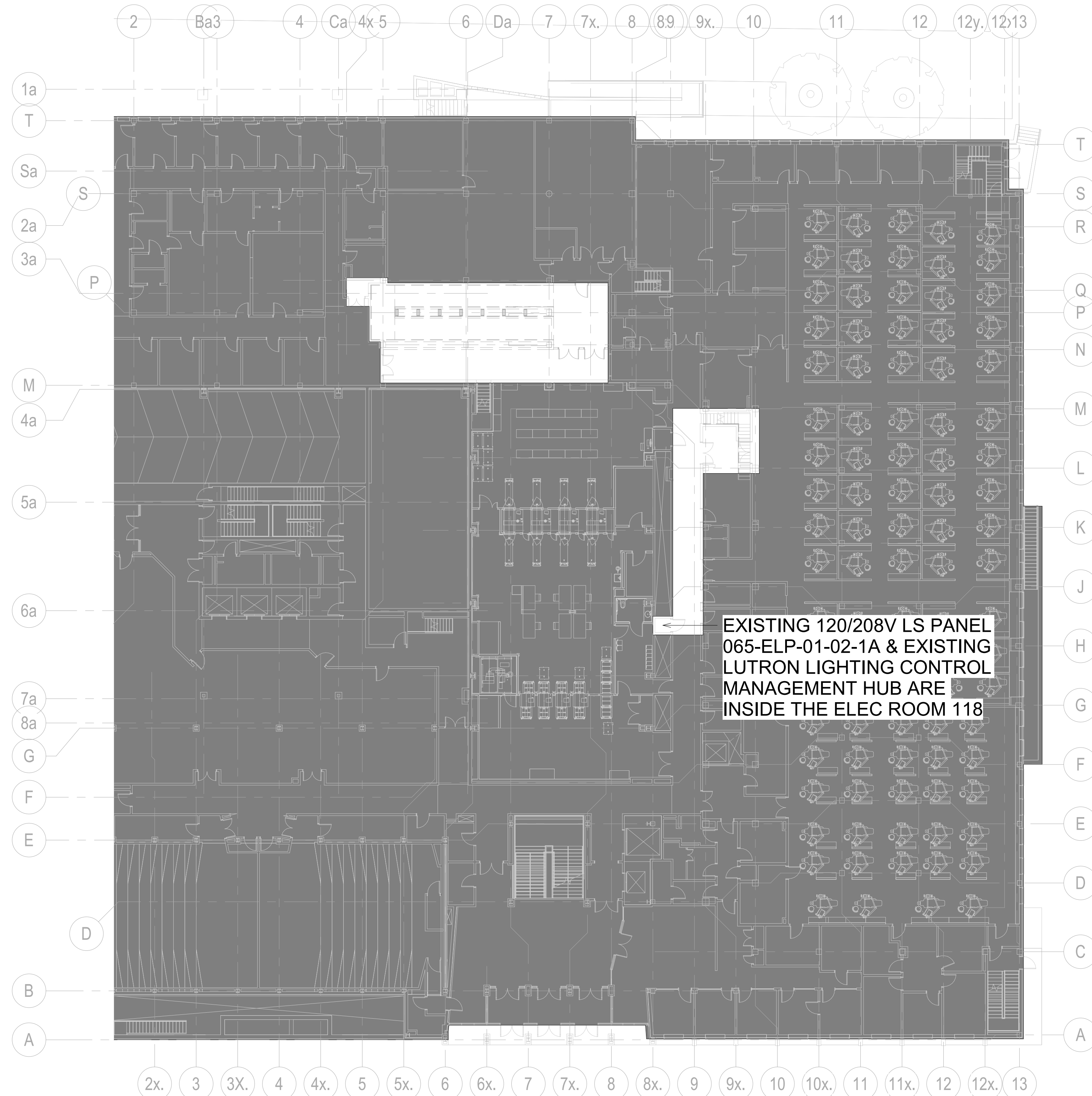
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E-101



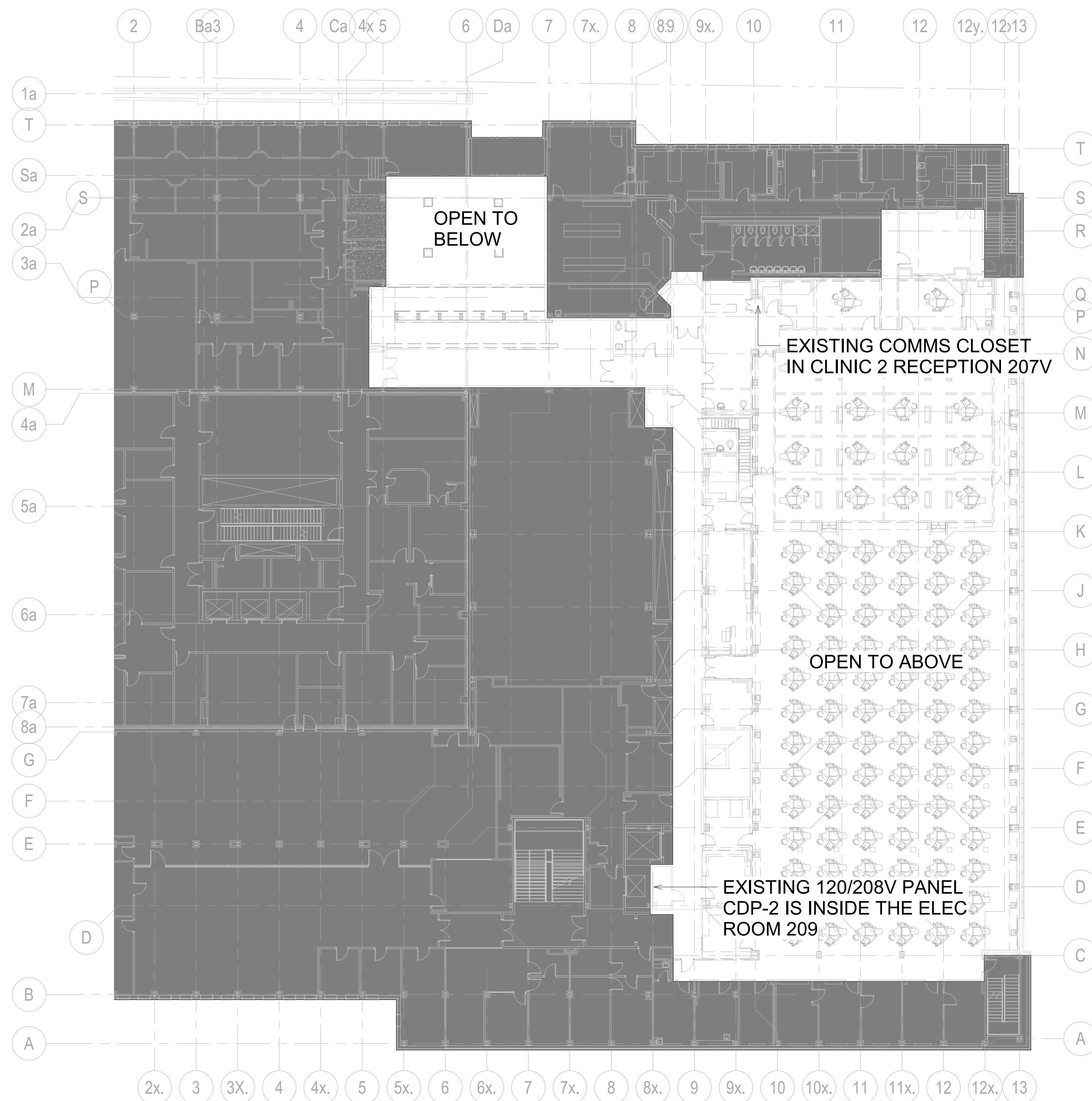
1 BASEMENT - KEY PLAN
E-101 SCALE: 1:200



3 PATIENT LOBBY LEVEL - KEY PLAN
E-101 SCALE: 1:200

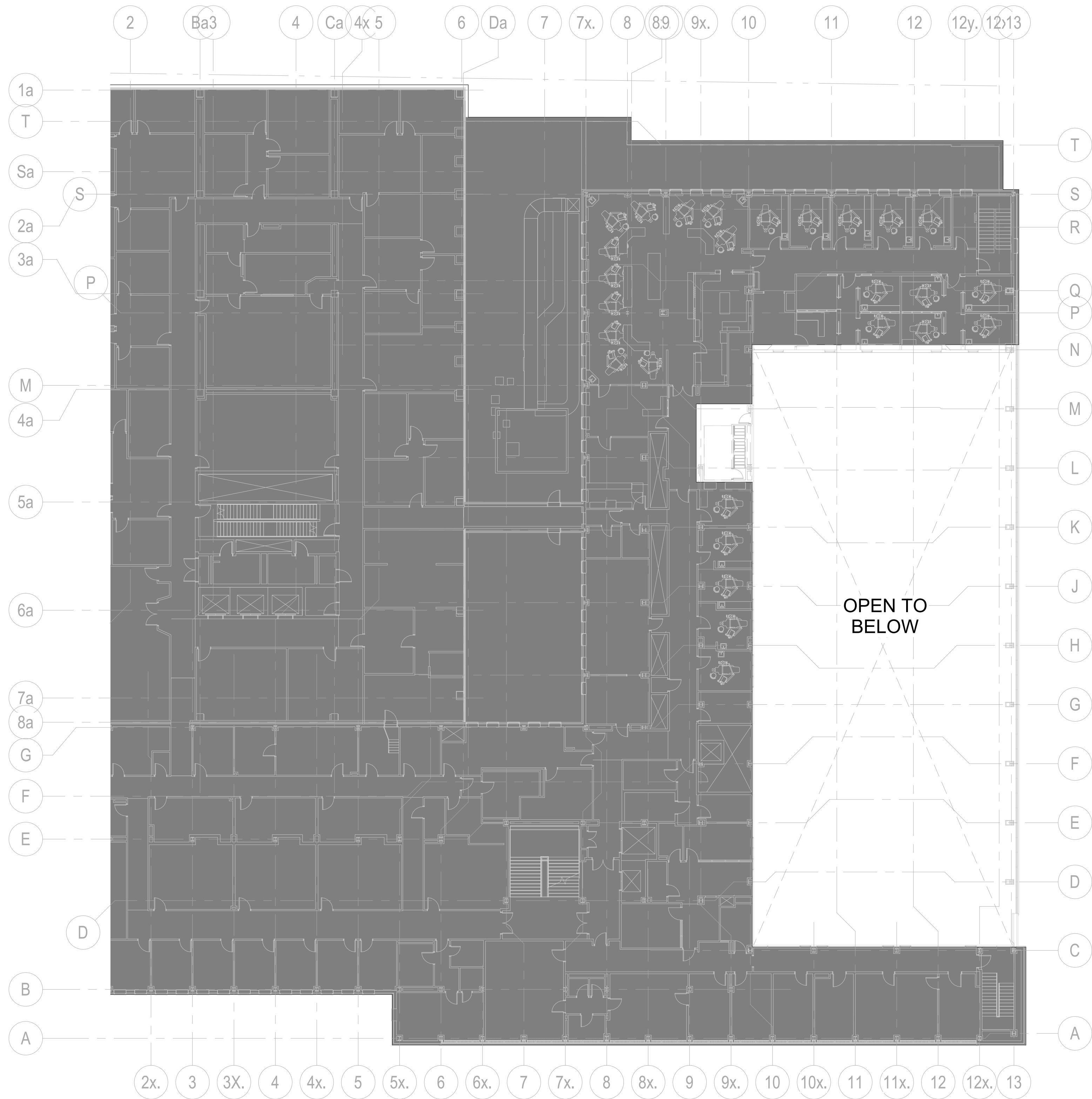


2 LEVEL 1 - KEY PLAN
E-101 SCALE: 1:200

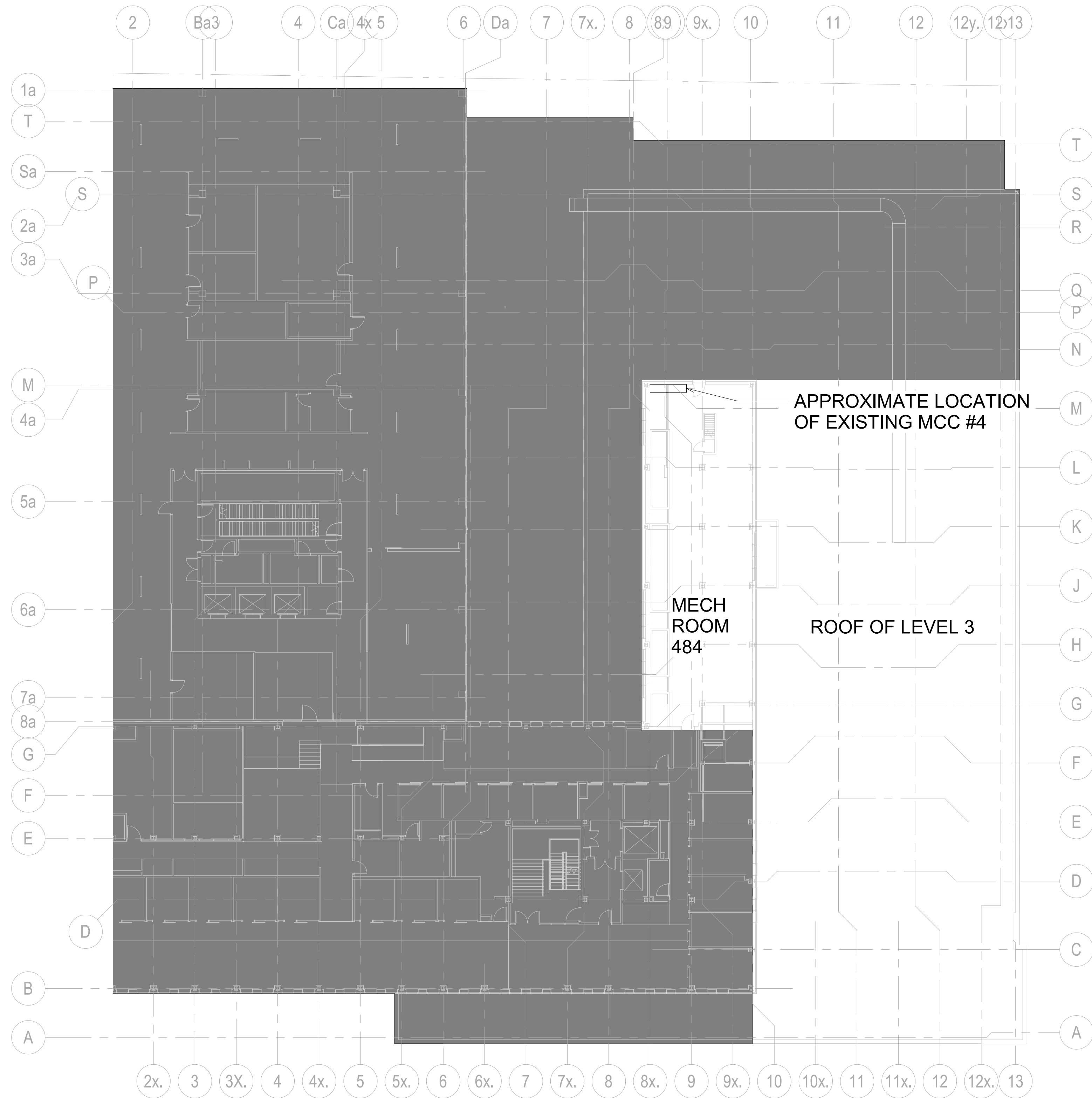


4 LEVEL 2 - KEY PLAN
E-101 SCALE: 1:200

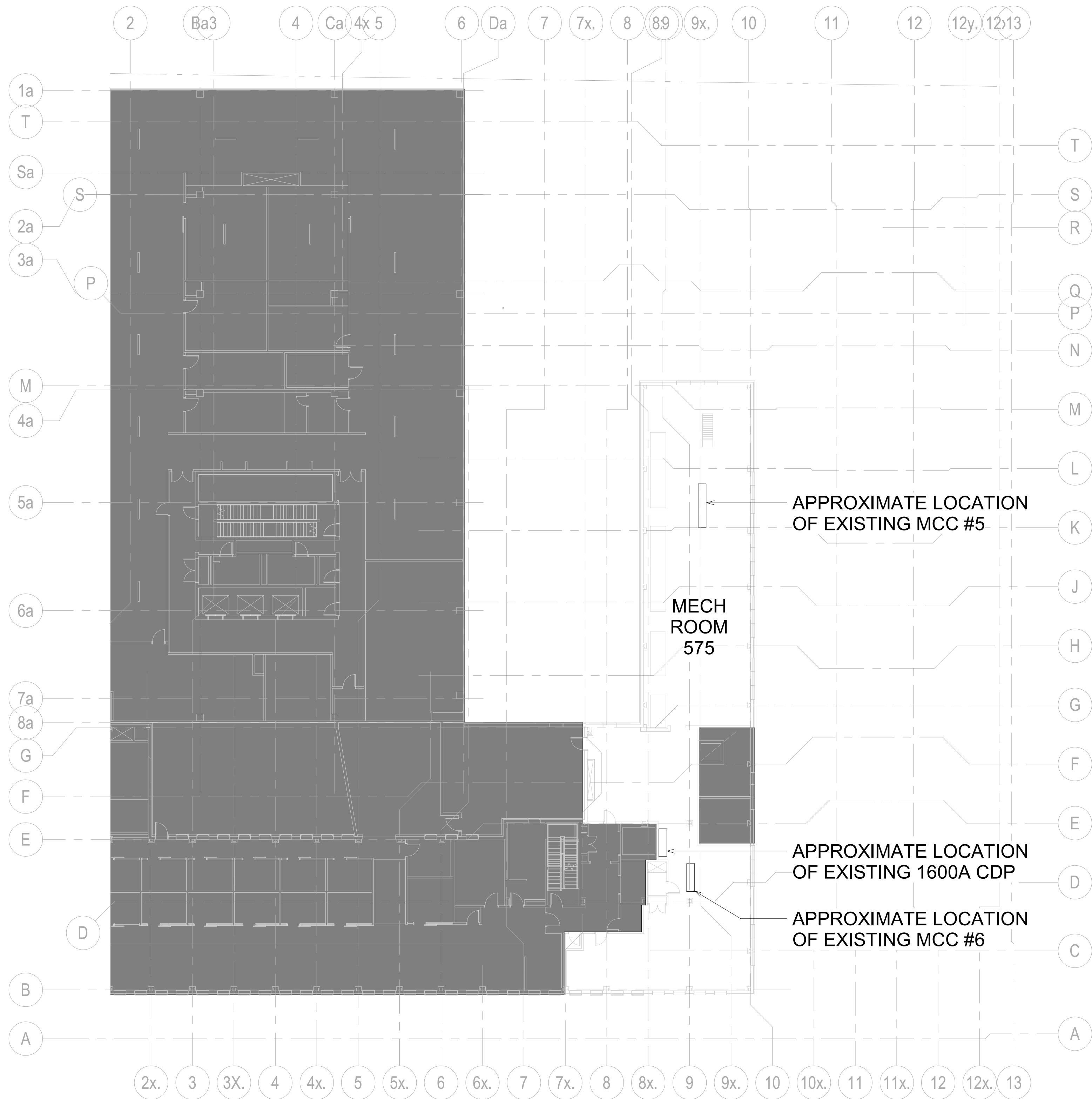
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1 LEVEL 3 - KEY PLAN
E-102 SCALE: 1:200



2 LEVEL 4 - KEY PLAN
E-102 SCALE: 1:200



3 LEVEL 5 - KEY PLAN
E-102 SCALE: 1:200

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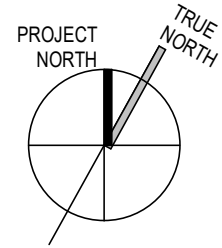
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6	29 JAN 2025	ISSUED FOR 10% CD	EXP
5	05 DEC 2025	ISSUED FOR BUILDING PERMIT	EXP
4	26 NOV 2025	RE ISSUED FOR 80% CD	EXP
3	26 SEPT 2025	ISSUED FOR 80% CD	EXP
2	20 MAY 2025	ISSUED FOR 100% CD	EXP
1	22 MAY 2025	ISSUED FOR CD PROGRESS SET	EXP
#	DATE	REVISION	BY
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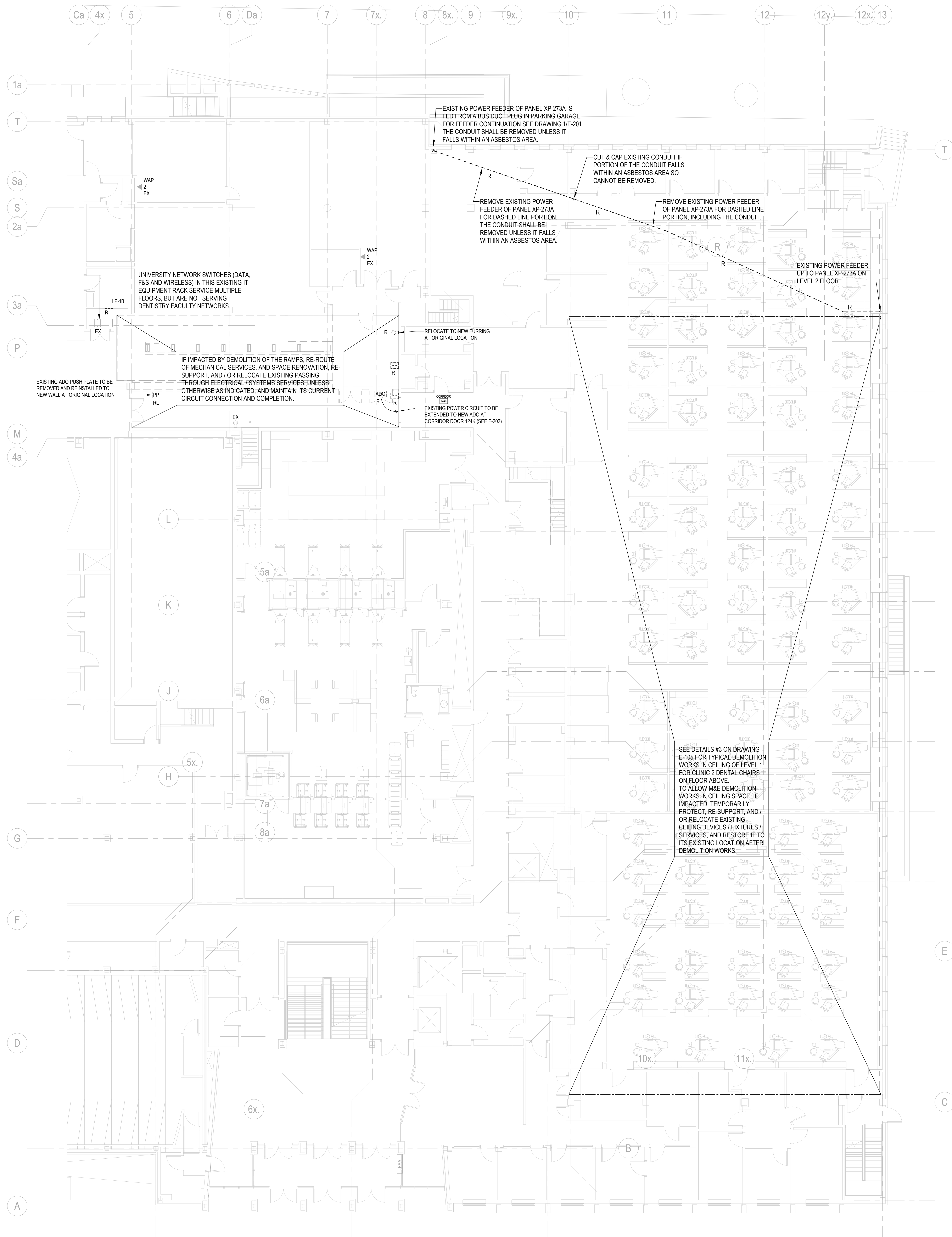
ELECTRICAL KEY PLANS

SCALE: 1:200
DRAWN BY: Author
REVIEWED BY: Checker
JOB NUMBER: MRK-21019389-A0
PLOT DATE: 05/12/25

DRAWING NUMBER:

E-102

1. WHERE ANY EXISTING BRANCH PANELS BE REMOVED, ITS POWER FEEDER SHALL BE CUT BACK TO THE SOURCE PANEL/S BUS DUCT PLUG, AND POWER FEEDER CONDUIT SHALL BE REMOVED EXCEPT FOR THE PORTION THAT FALLS WITHIN AN ASBESTOS AREA, UNLESS OTHERWISE INDICATED ON DRAWINGS.
2. WHERE ANY EXISTING BRANCH PANELS IS TO REMAIN, BUT ITS POWER CIRCUITS IS (S) ARE REMOVED / MODIFIED, THE PANEL DIRECTORY SHALL BE UPDATED ACCORDING TO ELECTRICAL DEMOLITION WORKS, USING USTO STANDARD PANEL, SCHEDULE TEMPLATES, DOWNLOAD TEMPLATES FROM WEBSITE OF THE UNIVERSITY OF TORONTO FOR ELECTRICAL PANELS.
3. WHERE EXISTING POWER RECEPTACLES AND POWER CONNECTIONS WITHIN THE RENOVATED SPACES SHALL BE REMOVED, ITS DEDICATED POWER CIRCUITS SHALL BE CUT BACK TO SOURCE PANEL OR ITS SHARED POWER CIRCUITS TO BE CUT BACK TO A JUNCTION BOX.
4. REGARDING EXISTING POWER CIRCUITS FOR CLINIC 2 PANEL CHAIRS, POWER WIRES DROP FROM CLINIC 2 BRANCH PANELS AND DISTRIBUTE IN LEVEL 1, CEILING SPACE AND THEN SUB-UP THROUGH A CEILING SLID OPENING TO BASE OF EACH CHAIR, THE CIRCUIT DISTRIBUTIONS IN LEVEL 1, CEILING CONDUIT OF WIRES, EMT CONDUITS, FLEXIBLE METAL CONDUITS, PULP BOXES AND JUNCTION BOXES, ALL WIRES OF THESE EXISTING POWER CIRCUITS SHALL BE REMOVED. EXISTING POWER CIRCUITS AND BOXES CAN REMAIN AND TO BE RE-USED IF A FAN WORKABLE CONDITION AND ARE APPLICABLE FOR THE NEW DENTAL CHAIR POWER CIRCUITING.
5. ANY EXISTING ELECTRICAL CONDUIT AND BOXES IF NOT TO BE RE-USED FOR FINAL INSTALLATION, SHALL BE REMOVED AT COMPLETION OF DEMOLITION WORKS, THERE SHALL BE NO ABANDONED SPACES IN THE CEILING OF THE SPACE.
6. EXISTING DATA AND VOICE CABLES, WHICH ARE NO LONGER REQUIRED, WILL BE PULLED BACK TO SOURCE AND TO BE DISPOSED. ASSOCIATED ELECTRICAL CONDUIT AND BOXES SHALL BE REMOVED IF NOT TO BE RE-USED FOR FINAL INSTALLATION.
7. EXISTING DATA AND VOICE CABLES THAT CURRENTLY SERVE SPACES OUTSIDE OF THE PROJECT SPACES WILL BE RETAINED BUT WILL BE RE-PATCHED TO NEW PANELS (IF THE ASSOCIATED EXISTING PATCH PANELS WILL BE REPLACED / RELOCATED BY THIS PROJECT.
8. REGARDING EXISTING DATA CABLES FOR CLINIC 2 SLID PANEL CHAIRS, CABLES DROP FROM THE IT CLOSET IN CLINIC 2 LOBBY 2070 AND DISTRIBUTE IN LEVEL 1, CEILING SPACE AND THEN SUB-UP THROUGH A CEILING SLID OPENING TO BASE OF EACH CHAIR, THE DATA CABLE DISTRIBUTIONS IN LEVEL 1, CEILING CONDUIT OF DATA CABLES, EMT CONDUITS, FLEXIBLE METAL CONDUITS, PULP BOXES AND JUNCTION BOXES, ALL WIRES OF THESE EXISTING DATA CABLES SHALL BE REMOVED. EXISTING DATA CABLES AND BOXES CAN REMAIN AND TO BE RE-USED IF A FAN WORKABLE CONDITION AND ARE APPLICABLE FOR THE NEW DENTAL CHAIR DATA CABLES.
9. EXISTING DATA OUTLETS WITHIN THE MAIN LOBBY AREA WILL REMAIN IN GENERAL UNLESS OTHERWISE BE IMPACTED BY THE SPACE RECONFIGURATION.



- | | | | |
|------------|--------------|----------------------------|-----|
| 7 | 29 MAY 2025 | ISSUED FOR TENDER | EXP |
| 6 | 09 JAN 2025 | ISSUED FOR 100% CD | EXP |
| 5 | 05 DEC 2025 | ISSUED FOR BUILDING PERMIT | EXP |
| 4 | 26 NOV 2025 | RE-ISSUED FOR 80% CD | EXP |
| 3 | 26 SEPT 2025 | ISSUED FOR 80% CD | EXP |
| 2 | 30 MAY 2025 | ISSUED FOR 100% DD | EXP |
| 1 | 02 MAY 2025 | ISSUED FOR DD PROGRESS SET | EXP |
| # | DATE: | REVISION: | BY: |
| REVISIONS: | | | |

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PARTIAL LEVEL 1 - POWER & SYSTEMS DEMOLITION

SCALE: 1 : 100

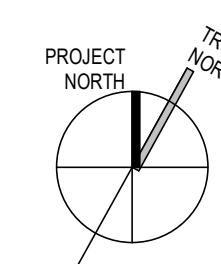
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PLOT DATE:

DRAWING NUMBER:

E-103



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6	05 DEC 2019	ISSUED FOR BUILDING PERMIT	EXP
5	26 NOV 2019	RE-ISSUED FOR 50% CD	EXP
4	26 SEPT 2019	ISSUED FOR 50% CD	EXP
3	15 SEPT 2019	Issued for Clinic 2 Ceiling 100% CD	EXP
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1	20 MAY 2019	ISSUED FOR CD PROGRESS SET	EXP
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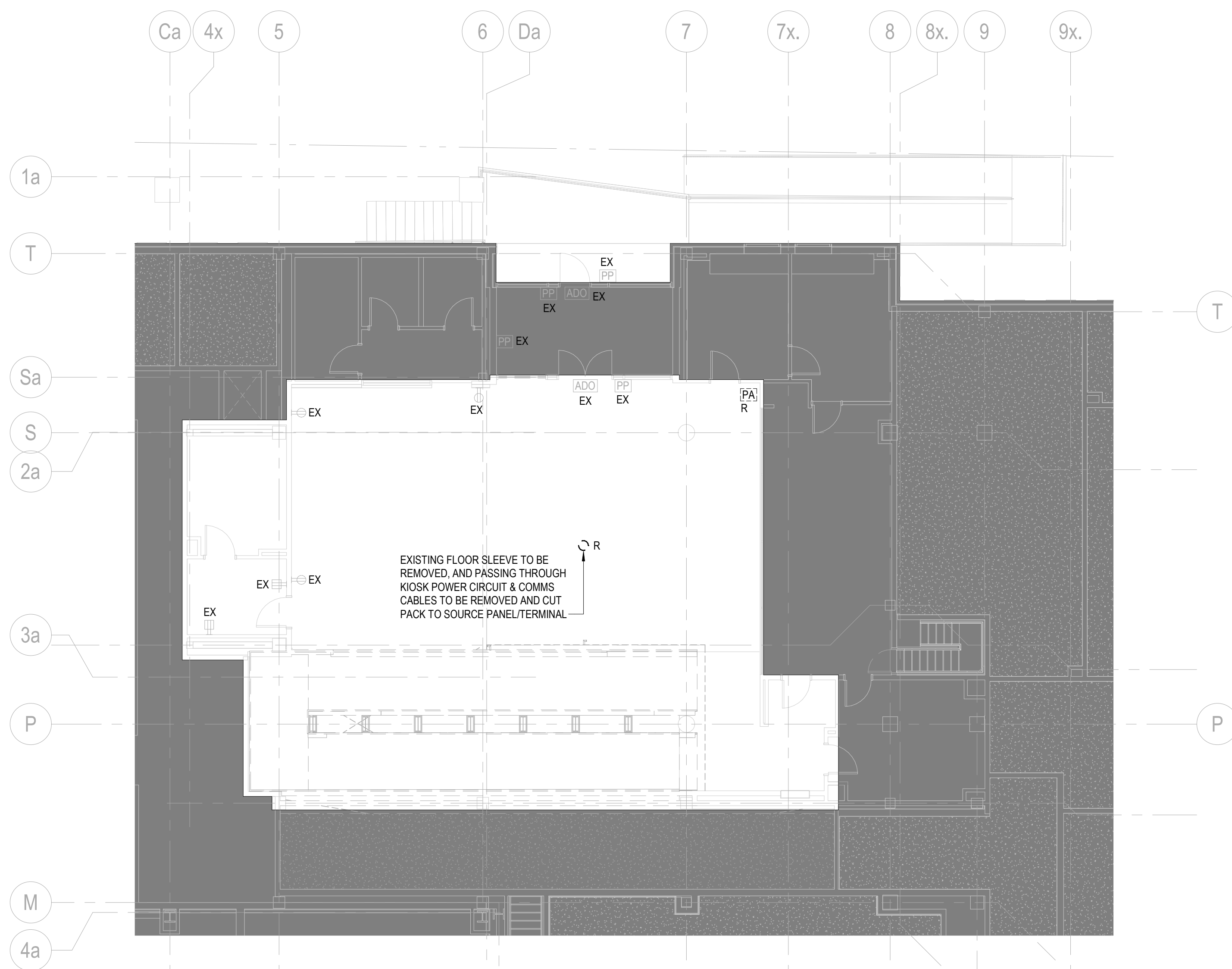
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TORONTO, ON M5G 1G6

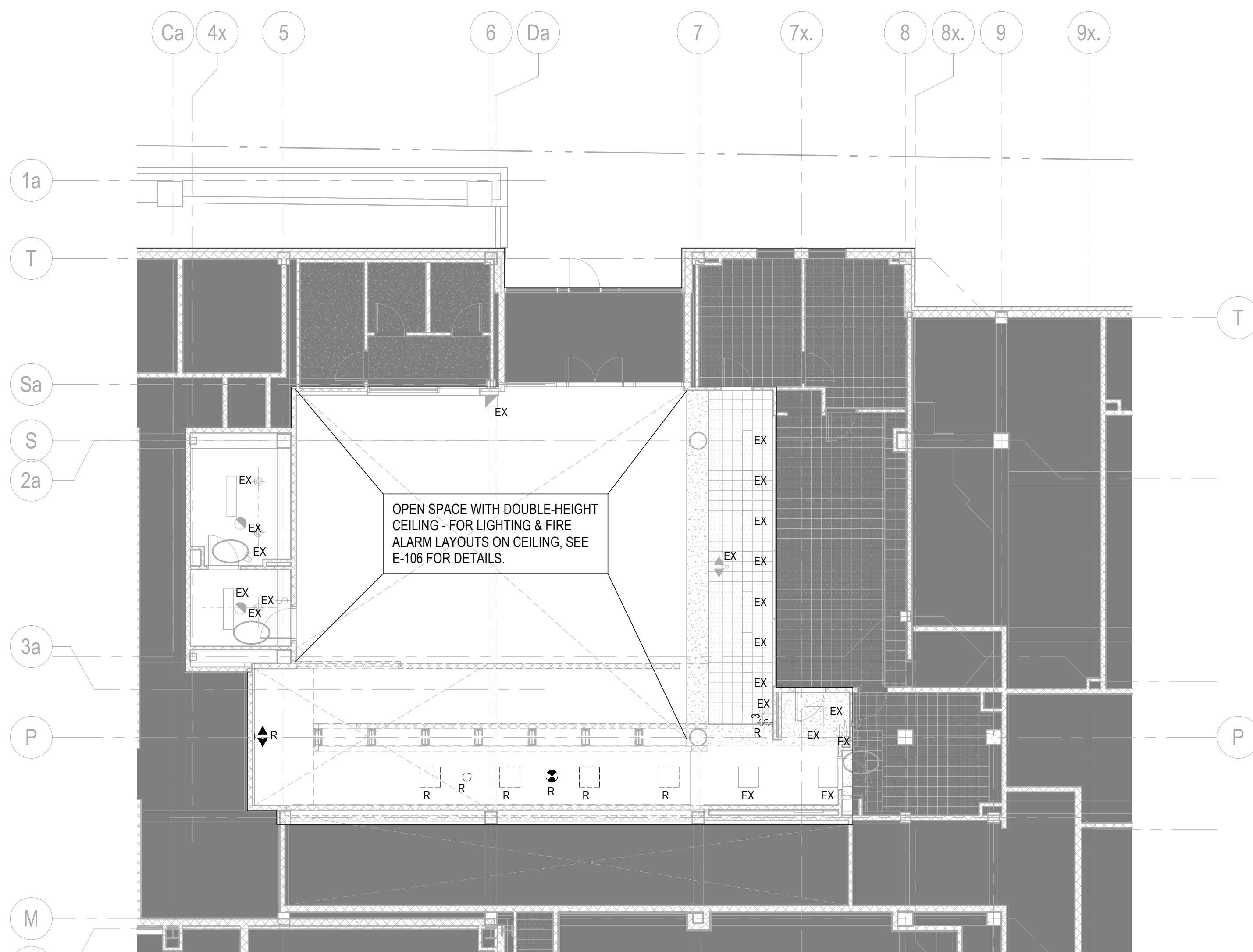
PARTIAL LEVEL 1 & PATIENT
LOBBY LEVEL - ELECTRICAL
DEMOLITION

SCALE: 1 : 100
DRAWN BY: Author
REVIEWED BY: Checker
JOB NUMBER: MRK-21019389-A0
PLOT DATE: 05/10/25

DRAWING NUMBER:
E-104



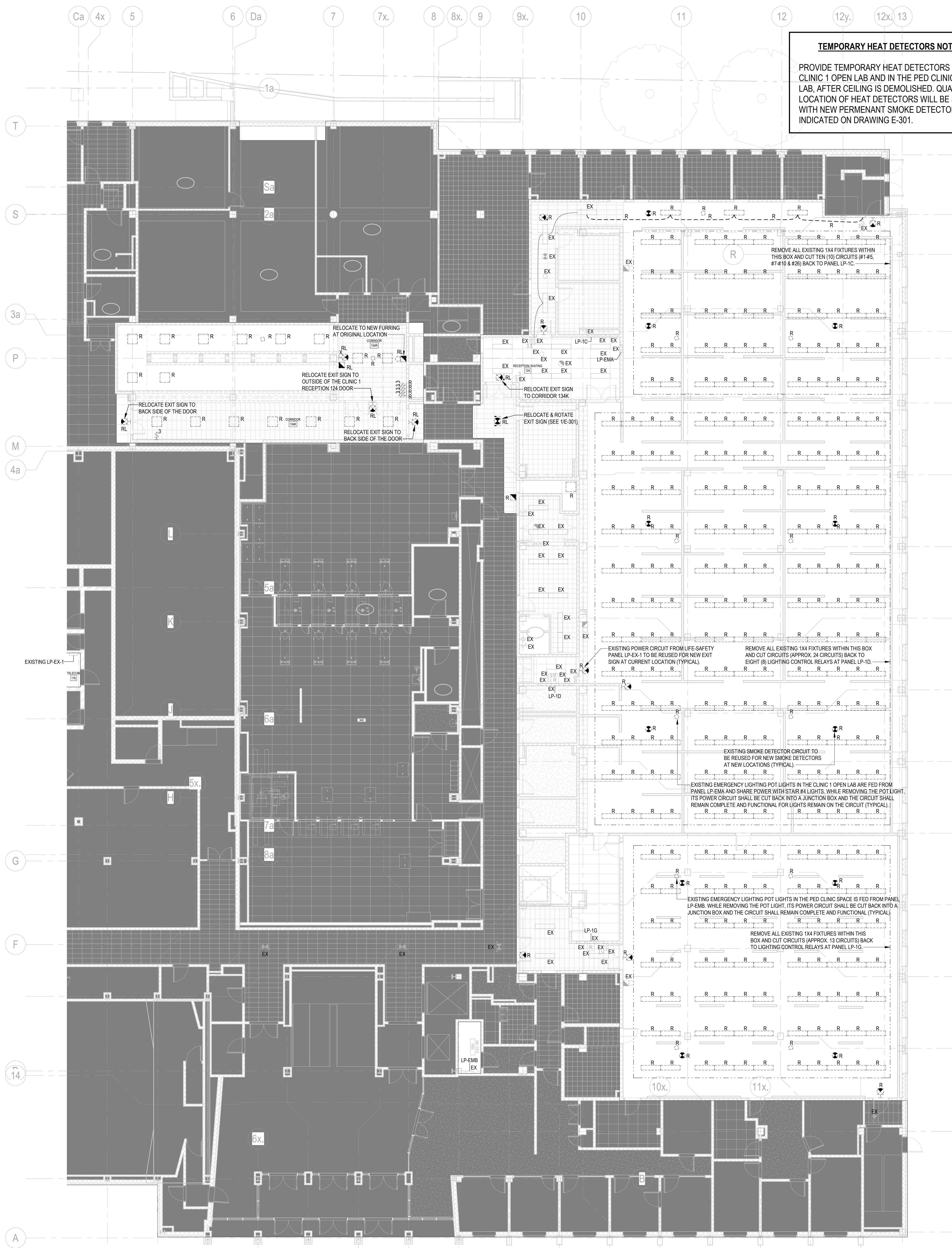
2 PATIENT LOBBY LEVEL - POWER & SYSTEMS DEMOLITION
E-104 SCALE: 1 : 100



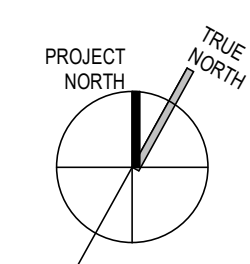
3 PATIENT LOBBY LEVEL - LIGHTING & FIRE ALARM DEMOLITION
E-104 SCALE: 1 : 100

ELECTRICAL DEMOLITIONS NOTES

- WHERE ANY EXISTING BRANCH PANEL IS TO BE REMOVED, ITS POWER FEEDER SHALL BE CUT BACK TO THE SOURCE PANEL / BUS DUCT PLUG, UNLESS OTHERWISE AS INDICATED ON DRAWINGS.
- WHERE ANY EXISTING BRANCH PANEL IS TO REMAIN, BUT ITS BRANCH CIRCUIT(S) IS (ARE) REMOVED / MODIFIED, THE PANEL DIRECTORY SHALL BE UPDATED ACCORDING TO ELECTRICAL DEMOLITION WORKS, USING UOFT STANDARD PANEL SCHEDULE TEMPLATES, DOWNLOAD TEMPLATES FROM WEBSITE OF THE UNIVERSITY OF TORONTO FACILITIES & SERVICES.
- WHERE EXISTING POWER RECEPTACLES AND POWER CONNECTIONS WITHIN THE RENOVATED SPACES SHALL BE REMOVED, ITS DEDICATED POWER CIRCUITS SHALL BE CUT BACK TO SOURCE PANEL OR ITS SHARED POWER CIRCUITS TO BE CUT BACK TO A JUNCTION BOX.
- WHERE EXISTING NORMAL LIGHTING AND LIGHTING CONTROL DEVICES WITHIN THE RENOVATED SPACES SHALL BE REMOVED, ITS DEDICATED POWER CIRCUITS SHALL BE CUT BACK TO SOURCE PANEL OR ITS SHARED POWER CIRCUITS TO BE CUT BACK TO A JUNCTION BOX.
- WHERE EXISTING EMERGENCY POT LIGHTS WITHIN THE RENOVATED SPACES SHALL BE REMOVED, ITS DEDICATED POWER CIRCUITS SHALL BE CUT BACK TO SOURCE PANEL OR ITS SHARED POWER CIRCUITS TO BE CUT BACK TO A JUNCTION BOX.
- WHERE EXISTING EXIT SIGNS WITHIN THE RENOVATED SPACES SHALL BE REMOVED / REPLACED, ITS POWER CIRCUITS SHALL BE REUSED FOR / EXTENDED TO NEW EXIT SIGNS.
- REGARDING EXISTING POWER CIRCUITS FOR CLINIC 2 DENTAL CHAIRS, POWER WIRES DROP FROM CLINIC 2 BRANCH PANELS AND DISTRIBUTE IN LEVEL 1 CEILING SPACE AND THEN STUB UP THROUGH A CEILING SLAB OPENING TO BASE OF EACH DENTAL CHAIR. THE CIRCUIT DISTRIBUTIONS IN LEVEL 1 CEILING CONSIST OF WIRES, EMT CONDUITS, FLEXIBLE METAL CONDUITS, PULL BOXES AND JUNCTION BOXES. ALL WIRES OF THESE EXISTING POWER CIRCUITS SHALL BE REMOVED. EXISTING CONDUITS AND BOXES CAN REMAIN AND TO BE RE-USED IF IN FAIR WORKABLE CONDITION AND ARE APPLICABLE FOR THE NEW DENTAL CHAIR POWER CIRCUITING.
- ANY EXISTING ELECTRICAL CONDUIT AND BOXES, IF NOT TO BE RE-USED FOR FINAL INSTALLATION, SHALL BE REMOVED. AT COMPLETION OF DEMOLITION, THERE SHALL BE NO ABANDONED SERVICES IN THE CEILING OF THE SPACE.
- EXISTING DATA AND VOICE CABLES, WHICH ARE NO LONGER REQUIRED, WILL BE PULLED BACK TO SOURCE AND TO BE DISPOSED. ASSOCIATED ELECTRICAL CONDUIT AND BOXES SHALL BE REMOVED IF NOT TO BE RE-USED FOR FINAL INSTALLATION.
- EXISTING DATA AND VOICE CABLES THAT CURRENTLY SERVE SPACES OUTSIDE OF THE PROJECT SPACES WILL BE RETAINED BUT WILL BE RE-PATCHED TO NEW PATCH PANELS, IF THE ASSOCIATED EXISTING PATCH PANELS WILL BE REPLACED / RELOCATED BY THIS PROJECT.
- REGARDING EXISTING DATA CABLES FOR CLINIC 2 DENTAL CHAIRS, CABLES DROP FROM THE IT CLOSET IN CLINIC 2 LOBBY 207V AND DISTRIBUTE IN LEVEL 1 CEILING SPACE AND THEN STUB UP THROUGH A CEILING SLAB OPENING TO BASE OF EACH DENTAL CHAIR. THE DATA CABLE DISTRIBUTIONS IN LEVEL 1 CEILING CONSIST OF DATA CABLES, EMT CONDUITS, PULL BOXES AND JUNCTION BOXES. ALL OF THESE EXISTING DATA CABLES SHALL BE REMOVED. EXISTING CONDUITS AND BOXES CAN REMAIN AND TO BE RE-USED IF IN FAIR WORKABLE CONDITION AND ARE APPLICABLE FOR THE NEW DENTAL CHAIR DATA CABLES.
- EXISTING DATA OUTLETS WITHIN THE MAIN LOBBY AREA WILL REMAIN IN GENERAL UNLESS OTHERWISE BE IMPACTED BY THE SPACE RECONFIGURATION.

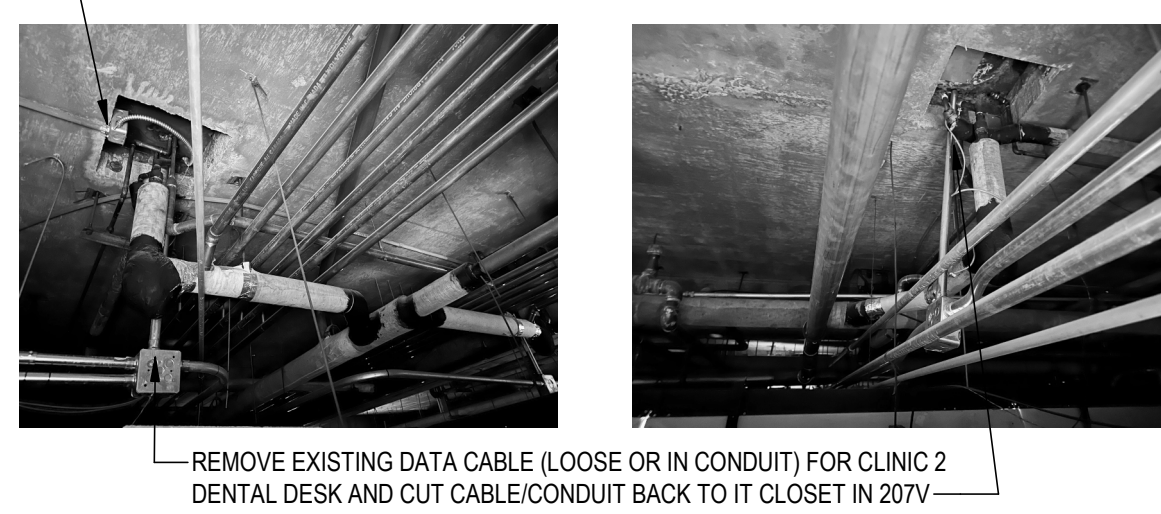


1 PARTIAL LEVEL 1 - LIGHTING & FIRE ALARM DEMOLITION
E-104 SCALE: 1 : 100



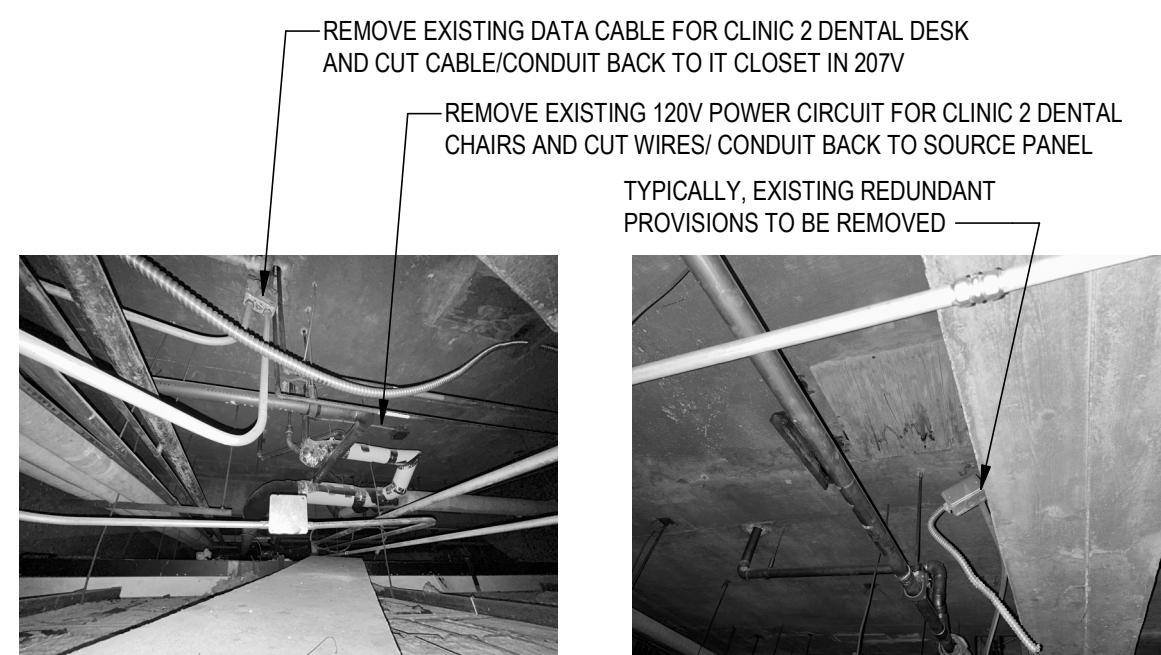
ELECTRICAL DEMOLITIONS NOTES

- ALL EXISTING BRANCH PANELS WITHIN THE RENOVATED CLINIC 2 AREAS SHALL BE REMOVED. ITS POWER FEEDER SHALL BE CUT BACK TO THE SOURCE PANEL. BUS DUCT PLUG, AND POWER FEEDER CONDUITS SHALL BE REMOVED EXCEPT FOR ANY PORTION THAT FALLS WITHIN AN ASBESTOS AREA. ALL EXISTING BRANCH PANELS OUTSIDE THE RENOVATED CLINIC 2 SHALL REMAIN, BUT ITS PANEL DIRECTORY SHALL BE UPDATED ACCORDING TO ELECTRICAL DEMOLITION WORKING LIST STANDARD PANEL SCHEDULE TEMPLATES. DOWNLOAD TEMPLATES FROM WEBSITE OF THE UNIVERSITY OF TORONTO FACILITIES & SERVICES.
- ALL EXISTING POWER RECEPTACLES AND POWER CONNECTIONS WITHIN THE RENOVATED SPACES, UNLESS OTHERWISE AS NOTED ON THE DRAWING, SHALL BE REMOVED AND ITS POWER CIRCUITS SHALL BE CUT BACK TO SOURCE PANELS.
- REGARDING EXISTING POWER CIRCUITS FOR CLINIC 2 DENTAL CHAIRS, POWER WIRES DROP FROM CLINIC 2 BRANCH PANELS AND DISTRIBUTE IN LEVEL 1 CEILING SPACE AND THEN STUB UP THROUGH A CEILING SLAB OPENING TO BASE OF EACH DENTAL CHAIR. THE CIRCUIT DISTRIBUTIONS IN LEVEL 1 CEILING CONSIST OF WIRES, EMT CONDUITS, FLEXIBLE METAL CONDUITS, PULL BOXES AND JUNCTION BOXES. ALL WIRES OF THESE EXISTING POWER CIRCUITS SHALL BE REMOVED. EXISTING CONDUITS AND BOXES CAN REMAIN AND TO BE RE-USED IF IN FAIR WORKABLE CONDITION AND ARE APPLICABLE FOR THE NEW DENTAL CHAIR POWER CIRCUITING.
- AS PER MECHANICAL DESIGN, EXISTING EXHAUST FANS SERVING CLINIC 2 SPACES SHALL BE DEMOLISHED. THEREFORE, EXISTING POWER FEEDS FOR THESE FANS WILL BE DISCONNECTED, REMOVED AND CUT BACK TO THE SOURCE PANELS.
- AS PER MECHANICAL DESIGN, EXISTING PERIMETER RADATORS ALONG THE EAST WALL OF THE CLINIC 2 AND SURROUNDING AREAS WILL BE REMOVED. THEREFORE, EXISTING CONTROL POWER CIRCUITS FOR ITS ASSOCIATED CONTROL VALVE(S) AND THERMOSTAT(S) WILL BE DISCONNECTED, REMOVED AND CUT BACK TO THE SOURCE PANELS.
- AS PER MECHANICAL DESIGN, EXISTING ALARMS AND ZONE CONTROL VALVES FOR THE CLINICAL TREATMENT #1-16 AND SURGICAL SUITE 2018 & 2017 WILL NEED TO BE DISCONNECTED AND REMOVED. THEREFORE, ASSOCIATED EXISTING POWER CIRCUITS WILL BE DISCONNECTED, REMOVED AND CUT BACK TO THE SOURCE PANELS.
- ANY EXISTING ELECTRICAL CONDUIT AND BOXES, IF NOT TO BE RE-USED FOR FINAL INSTALLATION, SHALL BE REMOVED AT COMPLETION OF DEMOLITION. THERE SHALL BE NO ABANDONED SERVICES IN THE CEILING OF THE SPACE.
- EXISTING DATA AND VOICE CABLES, WHICH ARE NO LONGER REQUIRED, WILL BE PULLED BACK TO SOURCE AND TO BE DISPOSED. ASSOCIATED ELECTRICAL CONDUIT AND BOXES SHALL BE REMOVED IF NOT TO BE RE-USED FOR FINAL INSTALLATION.
- EXISTING DATA AND VOICE CABLES THAT CURRENTLY SERVE SPACES OUTSIDE OF THE PROJECT SPACES WILL BE RETAINED BUT WILL BE RE-RATCHED TO NEW PANELS, IF THE EXISTING PANELS WILL BE REPLACED BY THIS PROJECT.
- REGARDING EXISTING DATA CABLES FOR CLINIC 2 DENTAL CHAIRS, CABLES DROP FROM THE IT CLOSET IN CLINIC 2 LOBBY 207V AND DISTRIBUTE IN LEVEL 1 CEILING SPACE AND THEN STUB UP THROUGH A CEILING SLAB OPENING TO BASE OF EACH DENTAL CHAIR. THE DATA CABLE DISTRIBUTIONS IN LEVEL 1 CEILING CONSIST OF DATA CABLES, EMT CONDUITS, PULL BOXES AND JUNCTION BOXES. ALL OF THESE EXISTING DATA CABLES SHALL BE REMOVED. EXISTING CONDUITS AND BOXES CAN REMAIN AND TO BE RE-USED IF IN FAIR WORKABLE CONDITION AND ARE APPLICABLE FOR THE NEW DENTAL CHAIR DATA CABLES.
- EXISTING DATA OUTLETS WITHIN THE MAIN LOBBY AREA WILL REMAIN IN GENERAL UNLESS OTHERWISE BE IMPACTED BY THE SPACE RECONFIGURATION.



NOTES: EXISTING MECHELEC SERVICES PASS THROUGH 1958 BUILDING SLAB OPENINGS TO MOST OF CLINIC 2 DENTAL CHAIRS ON FLOOR ABOVE. LOOSE DATA CABLE WAS ADDED AFTERWORD AT FEW LOCATIONS.

CONDITION 1 DETAILS - USING 1958 BUILDING SLAB OPENINGS



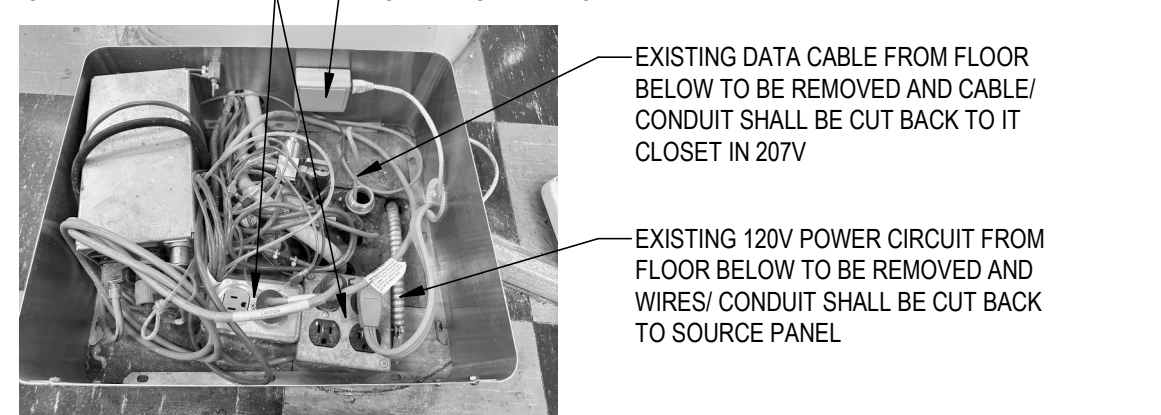
NOTES: AT LOCATIONS OF SOME CLINIC 2 DENTAL CHAIRS ON FLOOR ABOVE, AS RESULTS OF A 1982 PROJECT AND/OR A 1997 PROJECT, SOME 1958 BUILDING SLAB OPENINGS WERE ABANDONED. MECHELEC SERVICES PASS THROUGH CORE DRILLS INSTEAD, AND SOME REDUNDANT PROVISIONS WERE LEFT IN CEILING SPACE.

CONDITION 2 DETAILS - 1958 BUILDING SLAB OPENING WAS ABANDONED AND CORE DRILLS WERE ADDED IN 1992 / 1997

3 TYPICAL ELECTRICAL DEMOLITIONS IN LEVEL 1 CEILING FOR EXISTING DENTAL CHAIRS
E-105 SCALE: N.T.S

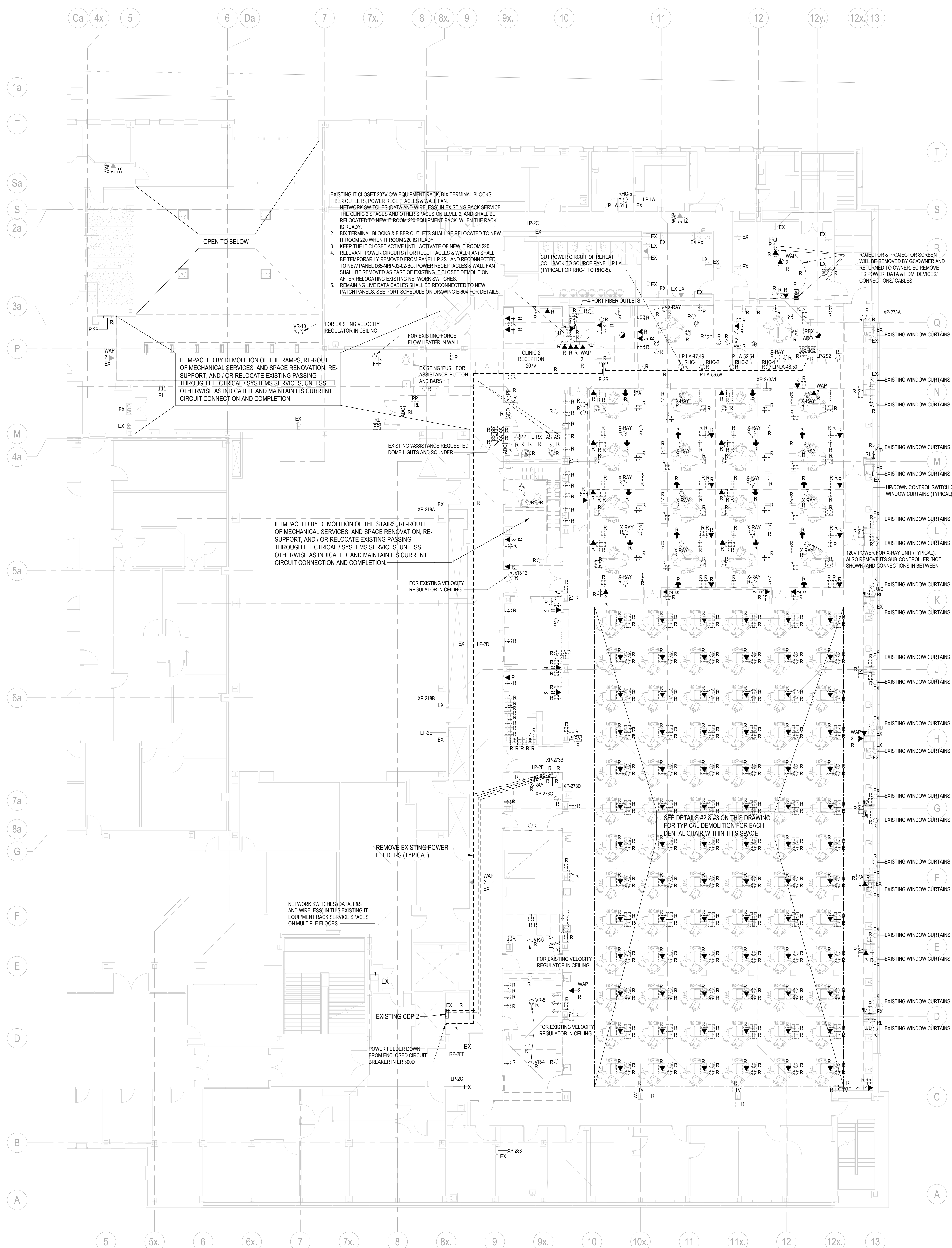


SEE PHOTO AT RIGHT FOR DETAILS UNDER DENTAL DESK
EXISTING POWER BAR TO BE REMOVED AND HANDED OVER TO THE OWNER
EXISTING POWER CORD & DATA PATCH CABLE TO BE REMOVED
EXISTING DATA PATCH CABLE TO BE REMOVED AND HANDED OVER TO THE OWNER
EXISTING SURFACE FLOOR CABLE COVER TO BE REMOVED



OPEN LAB EXISTING DENTAL CHAIR & DESK - TYPICAL ELECTRICAL DEMOLITIONS

2 OPEN LAB EXISTING DENTAL CHAIR & DESK - TYPICAL ELECTRICAL DEMOLITIONS
E-105 SCALE: N.T.S



1 PARTIAL LEVEL 2 - POWER & SYSTEMS DEMOLITION
E-105 SCALE: 1:100

7	29 MAY 2020	ISSUED FOR TENDER	EXP
6	19 JUN 2020	ISSUED FOR 10% CD	EXP
5	05 DEC 2020	ISSUED FOR BUILDING PERMIT	EXP
4	26 NOV 2020	RE-ISSUED FOR 80% CD	EXP
3	26 SEP 2020	ISSUED FOR 80% CD	EXP
2	20 MAY 2020	ISSUED FOR 10% CD	EXP
1	02 MAY 2020	ISSUED FOR CD PROGRESS SET	EXP
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PARTIAL LEVEL 2 - POWER &
SYSTEMS DEMOLITION

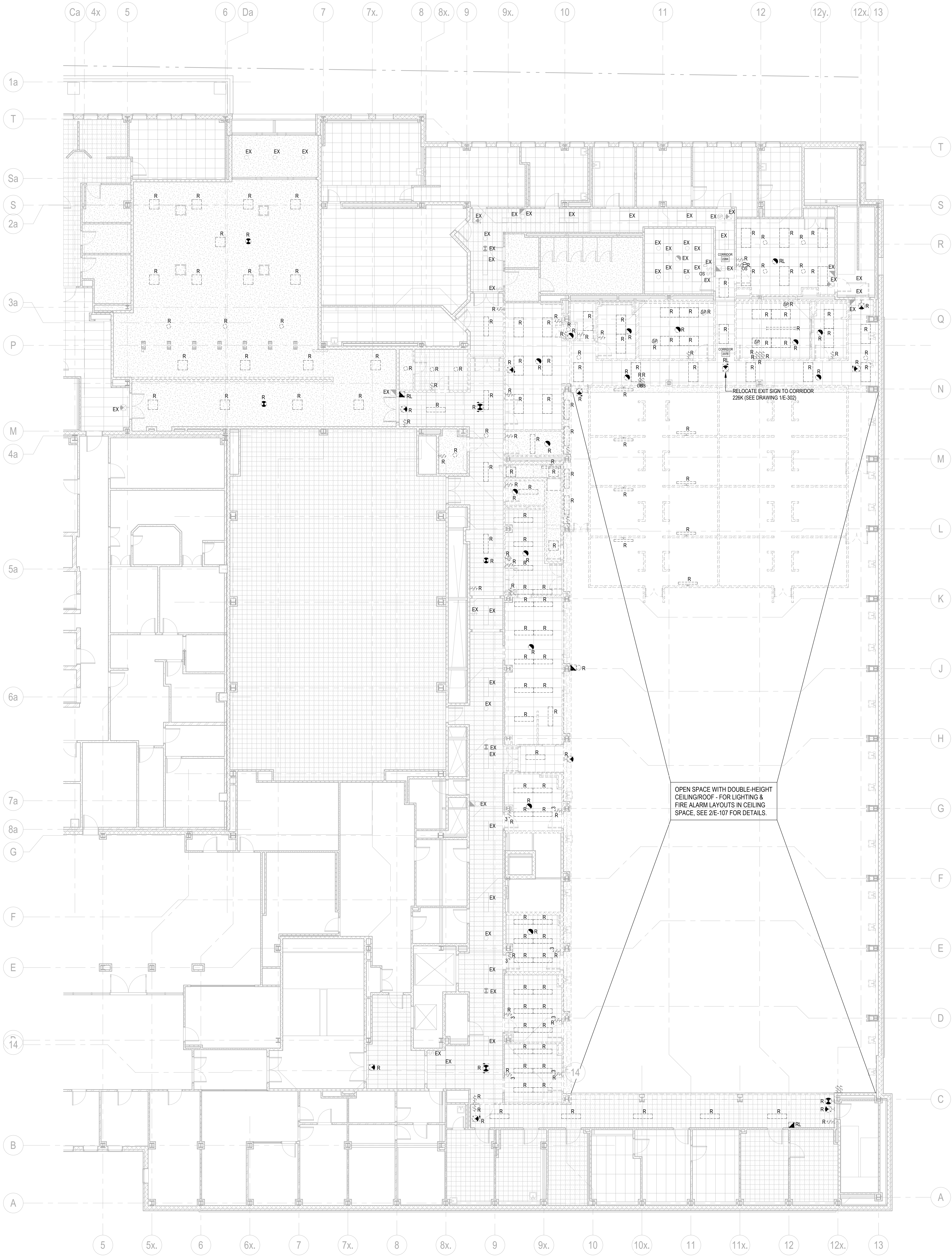
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DRAWN BY: Author
REVIEWED BY: Checker
JOB NUMBER: MRK-21019389-A0
PLOT DATE: 05/12/25

DRAWING NUMBER:
E-105

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ELECTRICAL DEMOLITIONS NOTES

- WHERE EXISTING NORMAL LIGHTING AND LIGHTING CONTROL DEVICES WITHIN THE RENOVATED SPACES, UNLESS OTHERWISE AS NOTED ON THE DRAWING, SHALL BE REMOVED. ITS DEDICATED POWER CIRCUITS SHALL BE CUT BACK TO SOURCE PANEL OR ITS SHARED POWER CIRCUITS TO BE CUT BACK TO A JUNCTION BOX.
- WHERE EXISTING EMERGENCY POT LIGHTS WITHIN THE RENOVATED SPACES SHALL BE REMOVED. ITS DEDICATED POWER CIRCUITS SHALL BE CUT BACK TO SOURCE PANEL OR ITS SHARED POWER CIRCUITS TO BE CUT BACK TO A JUNCTION BOX.
- WHERE EXISTING EXIT SIGNS WITHIN THE RENOVATED SPACES SHALL BE REMOVED / REPLACED. ITS POWER CIRCUITS SHALL BE REUSED FOR / EXTENDED TO NEW EXIT SIGNS.
- WHERE ANY BRANCH CIRCUIT(S) OF AN EXISTING ELECTRICAL PANEL IS (ARE) REMOVED / MODIFIED, THE PANEL DIRECTORY SHALL BE UPDATED ACCORDING TO ELECTRICAL DEMOLITION WORKS, USING UOFT STANDARD PANEL SCHEDULE TEMPLATES. DOWNLOAD TEMPLATES FROM WEBSITE OF THE UNIVERSITY OF TORONTO FACILITIES & SERVICES.
- ANY EXISTING ELECTRICAL CONDUIT AND BOXES, IF NOT TO BE RE-USED FOR FINAL INSTALLATION, SHALL BE REMOVED. AT COMPLETION OF DEMOLITION, THERE SHALL BE NO ABANDONED SERVICES IN THE CEILING OF THE SPACE.



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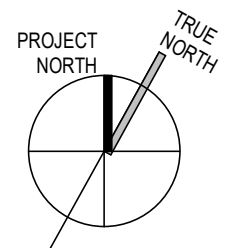
187 Spadina Avenue, Toronto, Ontario M5T 2C8 montgomerysisam.com
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5	05 DEC 2025	ISSUED FOR BUILDING PERMIT	EXP
4	26 NOV 2025	RE ISSUED FOR 80% CD	EXP
3	26 SEPT 2025	ISSUED FOR 80% CD	EXP
2	20 MAY 2025	ISSUED FOR 100% CD	EXP
1	02 MAY 2025	ISSUED FOR CD PROGRESS SET	EXP
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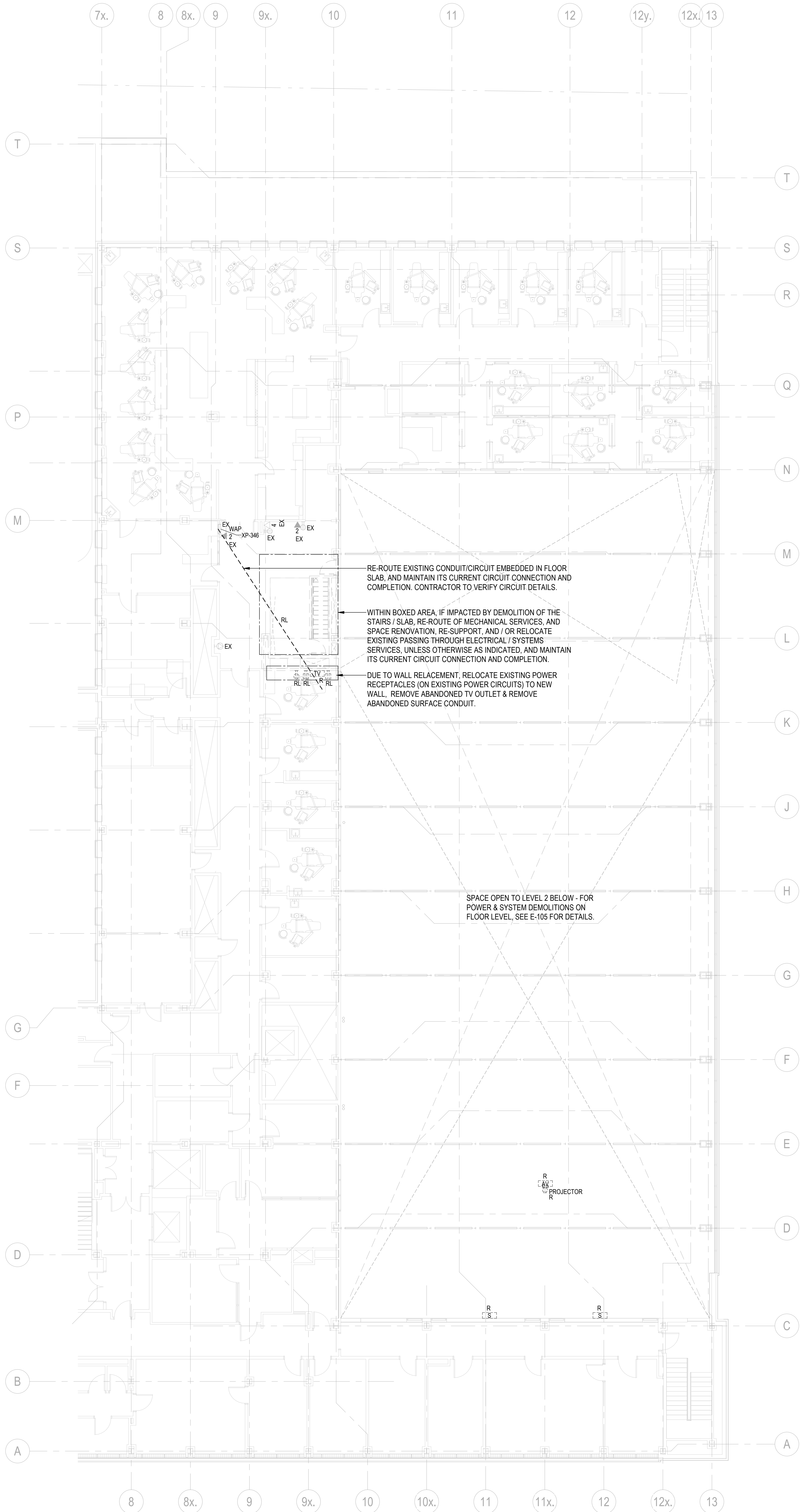
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PARTIAL LEVEL 2 - LIGHTING &
FIRE ALARM DEMOLITION

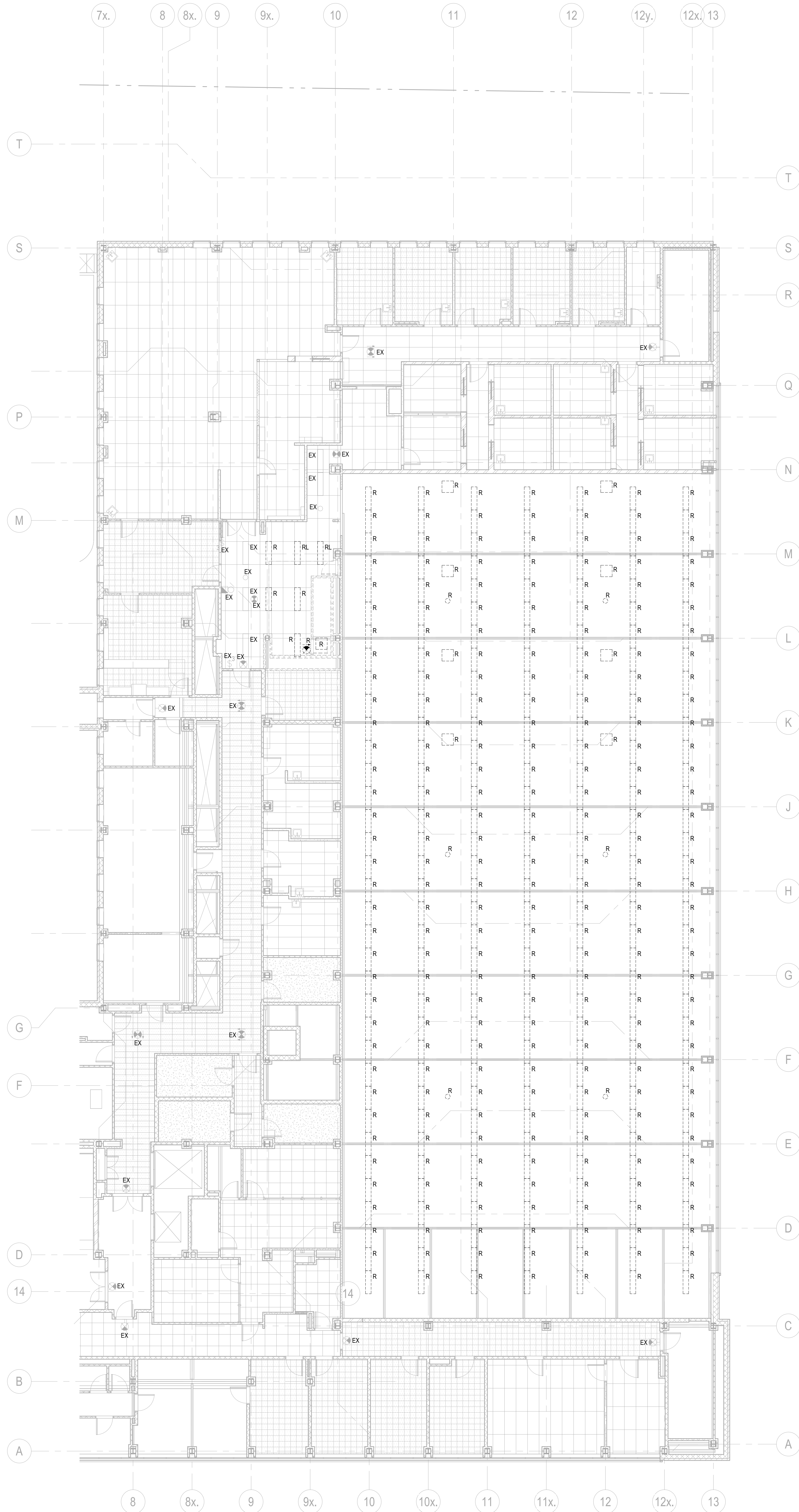
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1 PARTIAL LEVEL 3 - POWER & SYSTEMS DEMOLITION
E-107 SCALE: 1:100



2 PARTIAL LEVEL 3 - LIGHTING & FIRE ALARM DEMOLITION
E-107 SCALE: 1:100

ELECTRICAL DEMOLITIONS NOTES

1. ALL EXISTING POWER RECEPTACLES AND POWER CONNECTIONS WITHIN THE RENOVATED SPACES, UNLESS OTHERWISE AS NOTED ON THE DRAWING, SHALL BE REMOVED AND ITS POWER CIRCUITS SHALL BE CUT BACK TO SOURCE PANELS.
2. WHERE EXISTING NORMAL LIGHTING AND LIGHTING CONTROL DEVICES WITHIN THE RENOVATED SPACES, UNLESS OTHERWISE AS NOTED ON THE DRAWING, SHALL BE REMOVED. ITS DESIGNATED POWER CIRCUITS SHALL BE CUT BACK TO SOURCE PANEL OR ITS SHARED POWER CIRCUITS TO BE CUT BACK TO A JUNCTION BOX.
3. WHERE EXISTING EMERGENCY POT LIGHTS WITHIN THE RENOVATED SPACES SHALL BE REMOVED. ITS DESIGNATED POWER CIRCUITS SHALL BE CUT BACK TO SOURCE PANEL OR ITS SHARED POWER CIRCUITS TO BE CUT BACK TO A JUNCTION BOX.
4. WHERE EXISTING EXIT SIGNS WITHIN THE RENOVATED SPACES SHALL BE REMOVED / REPLACED. ITS POWER CIRCUITS SHALL BE REUSED FOR / EXTENDED TO NEW EXIT SIGNS.
5. WHERE ANY BRANCH CIRCUIT(S) OF AN EXISTING ELECTRICAL PANEL (S) ARE REMOVED / MODIFIED, THE PANEL DIRECTORY SHALL BE UPDATED ACCORDING TO ELECTRICAL DEMOLITION WORKS, USING UOFT STANDARD PANEL SCHEDULE TEMPLATES. DOWNLOAD TEMPLATES FROM WEBSITE OF THE UNIVERSITY OF TORONTO FACILITIES & SERVICES.
6. ANY EXISTING ELECTRICAL CONDUIT AND BOXES, IF NOT TO BE RE-USED FOR FINAL INSTALLATION, SHALL BE REMOVED. AT COMPLETION OF DEMOLITION THERE SHALL BE NO ABANDONED SERVICES IN THE CEILING OF THE SPACE.
7. EXISTING DATA AND VOICE CABLES, WHICH ARE NO LONGER REQUIRED, WILL BE PULLED BACK TO SOURCE AND TO BE DISPOSED. ASSOCIATED ELECTRICAL CONDUIT AND BOXES SHALL BE REMOVED IF NOT TO BE RE-USED FOR FINAL INSTALLATION.
8. EXISTING DATA AND VOICE CABLES THAT CURRENTLY SERVE SPACES OUTSIDE OF THE PROJECT SPACES WILL BE RETAINED BUT WILL BE RE-PATCHED TO NEW PATCH PANELS. IF THE EXISTING PATCH PANELS WILL BE REPLACED BY THIS PROJECT.

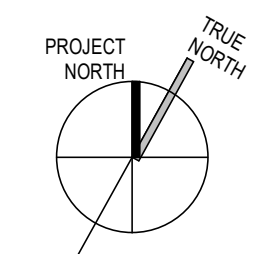
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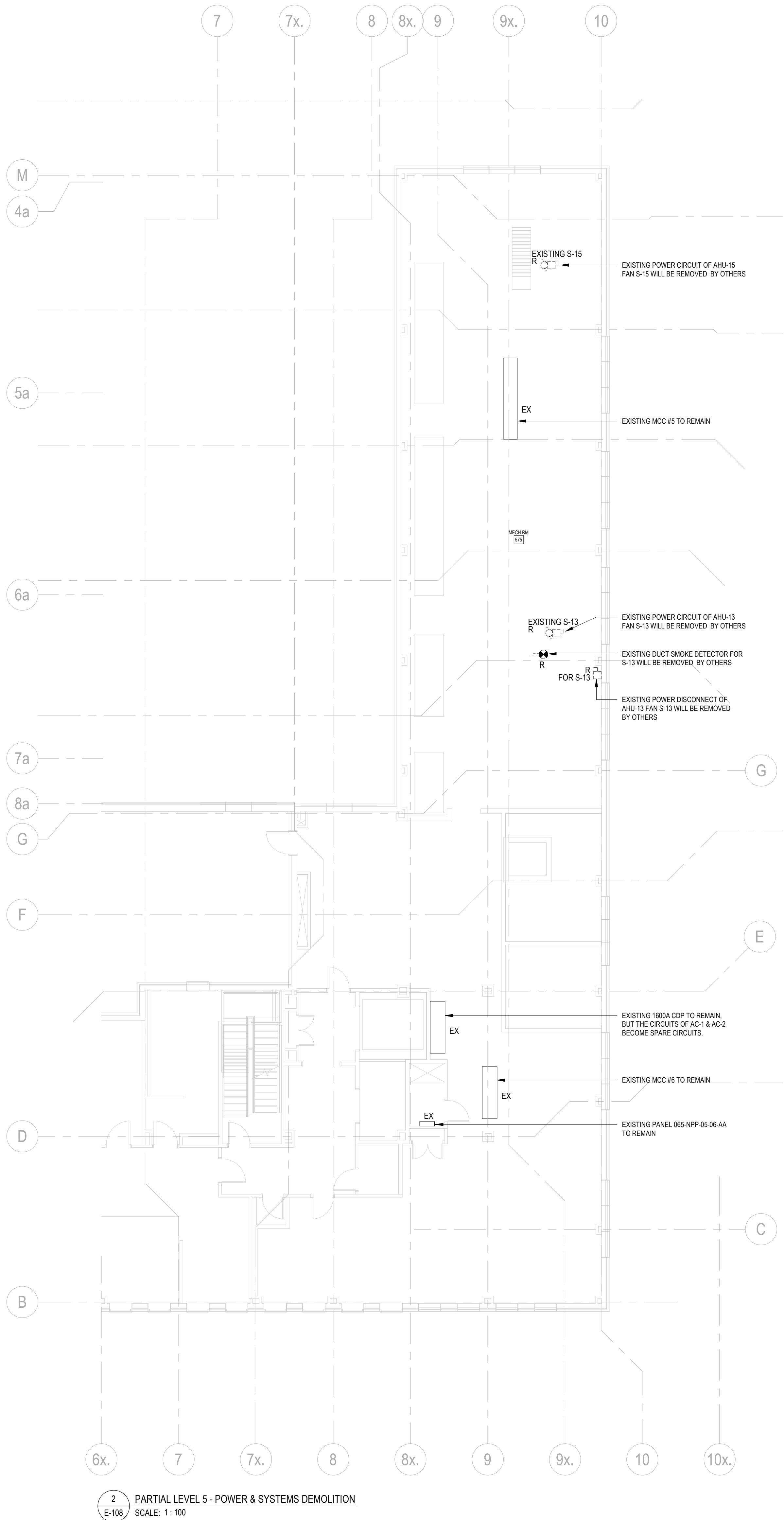
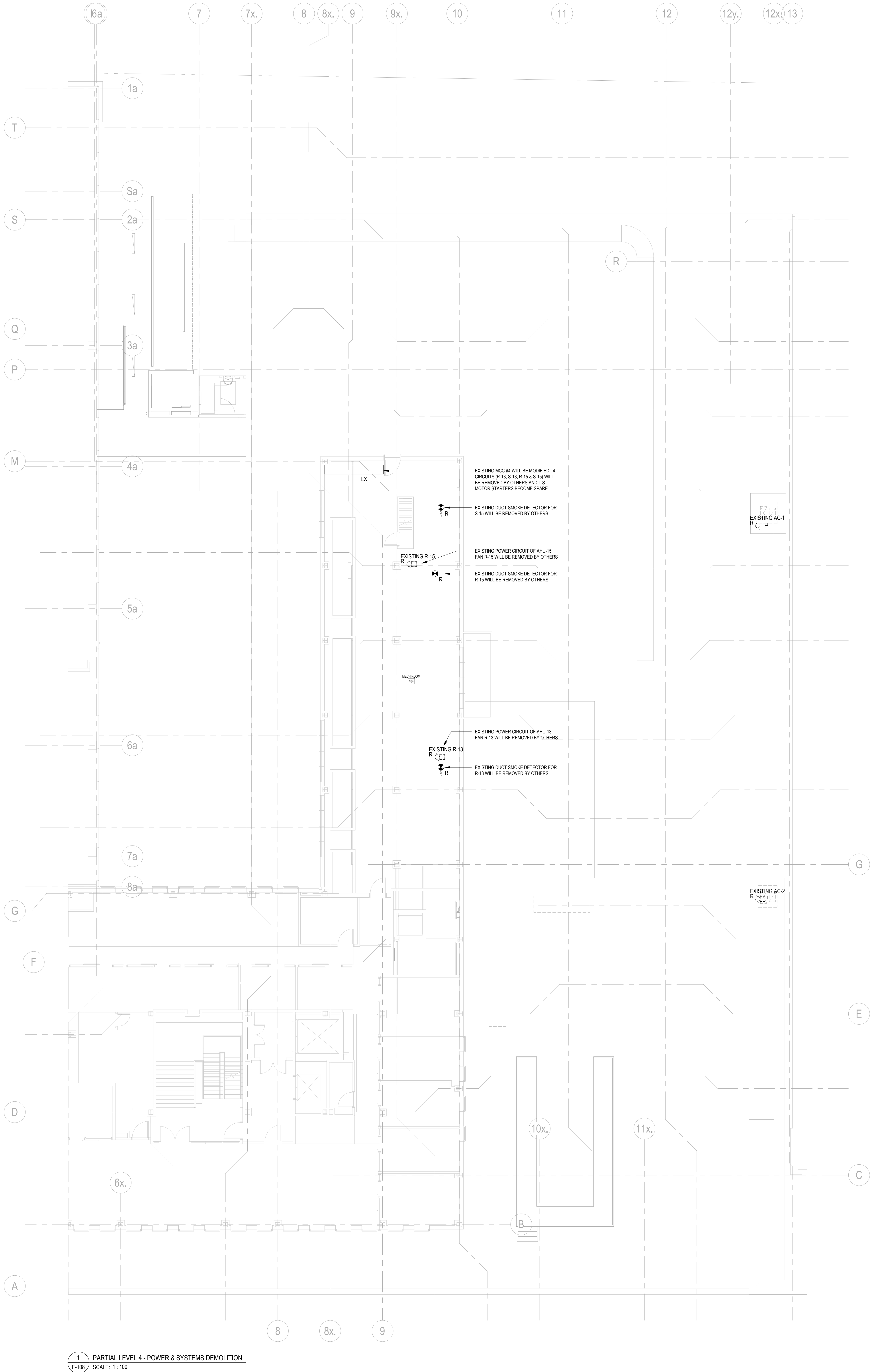
PARTIAL LEVEL 3 - ELECTRICAL
DEMOLITION

SCALE: 1:100
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E-107

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- ELECTRICAL DEMOLITIONS NOTES**
1. AS PER COORDINATION WITH LEAP 2 PROJECT, EXISTING AHU-13 AND AHU-15 WILL BE DISCONNECTED AND REMOVED BY THE LEAP 2 PROJECT. EXISTING POWER FEEDS FOR ASSOCIATED RETURN FANS AND SUPPLY FANS WILL BE DISCONNECTED, REMOVED AND CUT BACK TO MCC #4 LOCATED IN LEVEL 4 MECHANICAL ROOM #4. ALL ASSOCIATED DUCT SMOKE DETECTORS WILL BE DISCONNECTED AND REMOVED FROM EXISTING FIRE ALARM SIGNAL CIRCUITS.
 2. AS PER MECHANICAL DESIGN, EXISTING TWO ROOFTOP UNIT AC-1 & AC-2, WHICH SERVE THE EAST WALL OF CLINIC 2 SPACE FOR PERIMETER CONDITIONING, WILL BE DISCONNECTED AND REMOVED. THEREFORE, EXISTING POWER FEEDS WILL BE DISCONNECTED, REMOVED AND CUT BACK TO THE 1000A CIP LOCATED IN LEVEL 5 MECHANICAL ROOM 515.
 3. WHERE ANY BRANCH CIRCUIT(S) OF AN EXISTING ELECTRICAL PANEL (S) ARE REMOVED / MODIFIED, THE PANEL DIRECTORY SHALL BE UPDATED ACCORDING TO ELECTRICAL DEMOLITION WORKS, USING UOFT STANDARD PANEL SCHEDULE TEMPLATES, DOWNLOAD TEMPLATES FROM WEBSITE OF THE UNIVERSITY OF TORONTO FACILITIES & SERVICES.
 4. ANY EXISTING ELECTRICAL CONDUIT AND BOXES, IF NOT TO BE RE-USED FOR FINAL INSTALLATION, SHALL BE REMOVED AT COMPLETION OF DEMOLITION. THERE SHALL BE NO ABANDONED SERVICES IN THE CEILING OF THE SPACE.
 5. FOR DEMOLISHING DESIGNATED DUCT SMOKE DETECTORS, REWORK ASSOCIATED FIRE ALARM SIGNAL CIRCUIT TO ENSURE COMPLETION & FUNCTION OF EXISTING SIGNAL CIRCUIT.

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PARTIAL LEVEL 4 & 5 - POWER & SYSTEMS DEMOLITION

SCALE: 1:100

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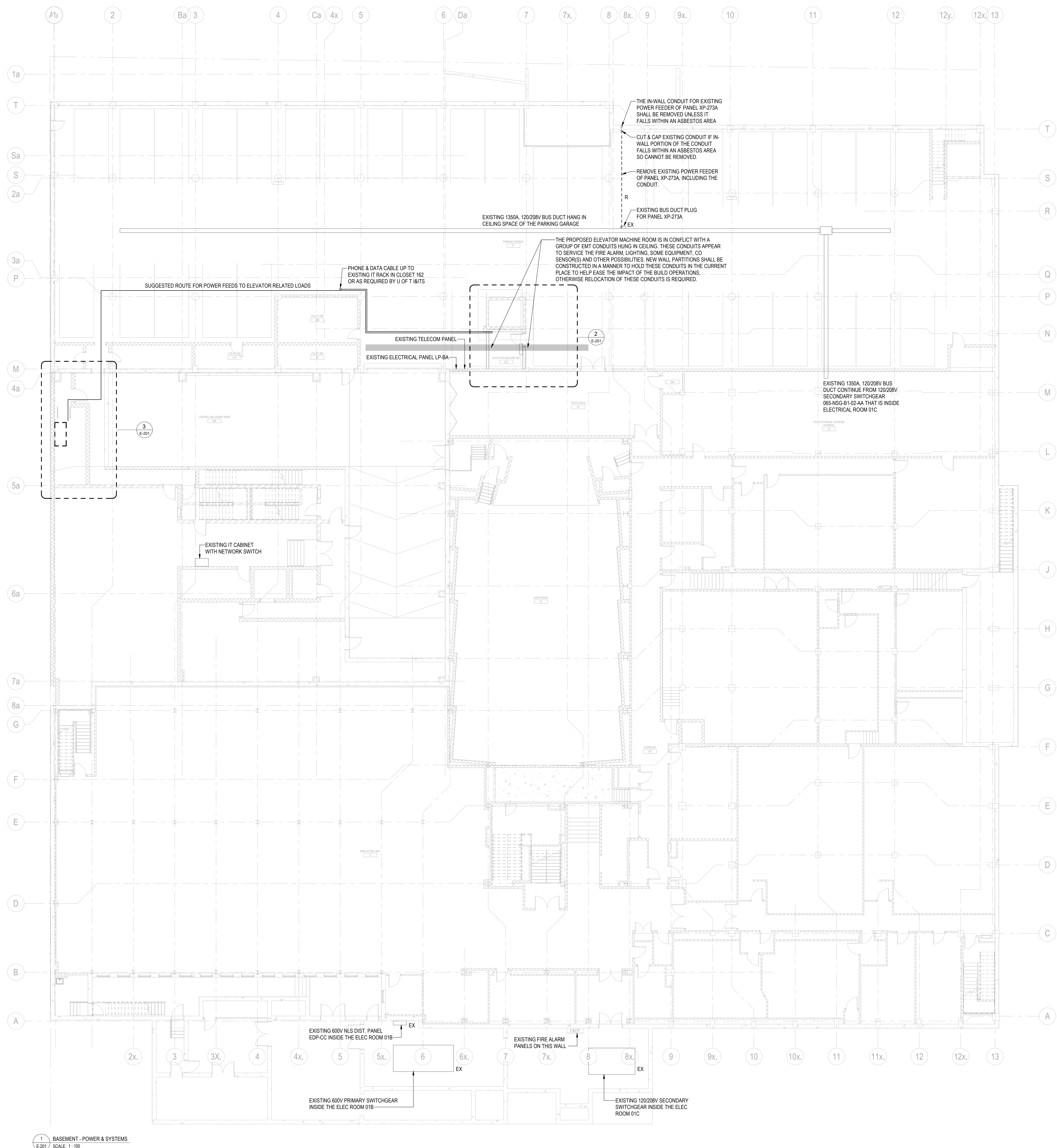
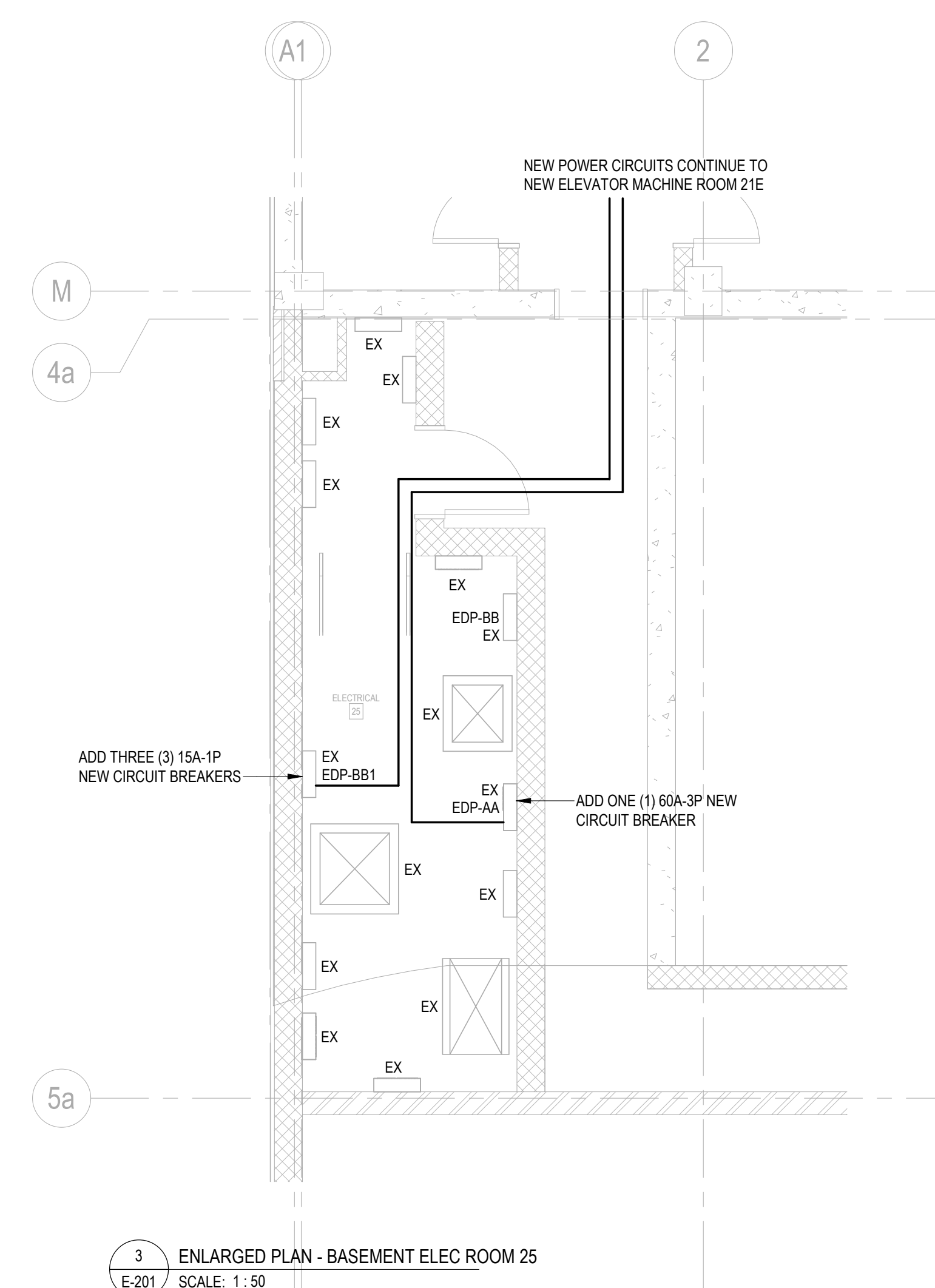
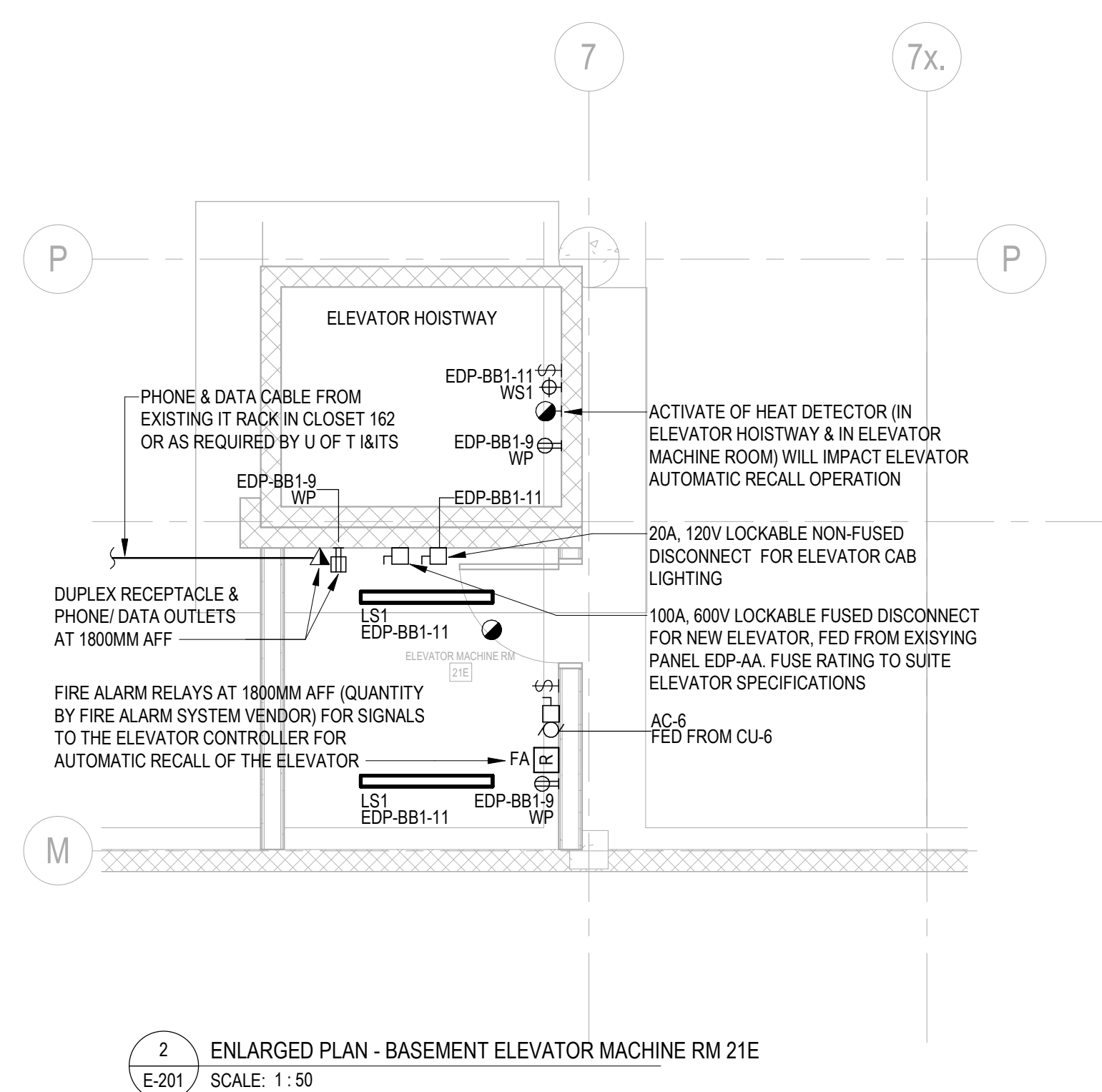
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JOB NUMBER: MRK-21019389-A0

PLOT DATE: 05/12/25

DRAWING NUMBER: E-108

1. MANUAL EMERGENCY RECALL OPERATION SHALL BE PROVIDED AS PER SPECIFICATIONS SECTION 14 20 00. COORDINATE WITH THE ELEVATOR VENDOR FOR PROVIDING REQUIRED ELECTRICAL ROUGH IN.
2. SIGNALS FROM THE FIRE ALARM SYSTEM TO THE ELEVATOR CONTROLLER FOR AUTOMATIC RECALL OF THE ELEVATOR AS PART OF THE EMERGENCY OPERATION ARE REQUIRED FROM SMOKE / HEAT DETECTORS IN THE ELEVATOR MACHINE ROOM, AT TOP OF ELEVATOR HOISTWAY, IN THE ELEVATOR PIT, AND AT EACH ELEVATOR LOBBY.
3. DETECTORS REQUIRED BY AUTOMATIC ELEVATOR RECALL SHALL BE PART OF THE BUILDING FIRE ALARM SYSTEM.
4. UPON ACTUATION OF THESE SMOKE / HEAT DETECTORS, THE ELEVATOR WILL AUTOMATICALLY RETURN NON-STOP TO THE DESIGNATED LEVEL AND OPEN THE DOORS. THE DESIGNATED RETURN LEVEL IS DEFINED BY THE ARCHITECT / ELEVATOR CONSULTANT.
5. ALL ELEVATOR FLOOR LEVELS ARE SPRINKLERED, SO AN ALTERNATE FLOOR RECALL FEATURE IS REQUIRED. THIS IS REQUIRED BY THE ARCHITECT / ELEVATOR CONSULTANT. IF THE ALTERNATE FLOOR RECALL FEATURE IS REQUIRED AND SMOKE DETECTOR IN THE ELEVATOR RECALL LEVEL LOBBY IS ACTUATED, THE ELEVATOR WILL AUTOMATICALLY RETURN DIRECTLY TO AN ALTERNATE FLOOR LEVEL DESIGNATED BY THE ARCHITECT / ELEVATOR CONSULTANT.



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6	09 JAN 2026	ISSUED FOR 100% CD	EXP
5	06 DEC 2025	ISSUED FOR BUILDING PERMIT	EXP
4	26 NOV 2025	RE-ISSUED FOR 80% CD	EXP
3	26 SEPT 2025	ISSUED FOR 80% CD	EXP
2	30 MAY 2025	ISSUED FOR 100% DD	EXP
1	02 MAY 2025	ISSUED FOR DD PROGRESS SET	EXP
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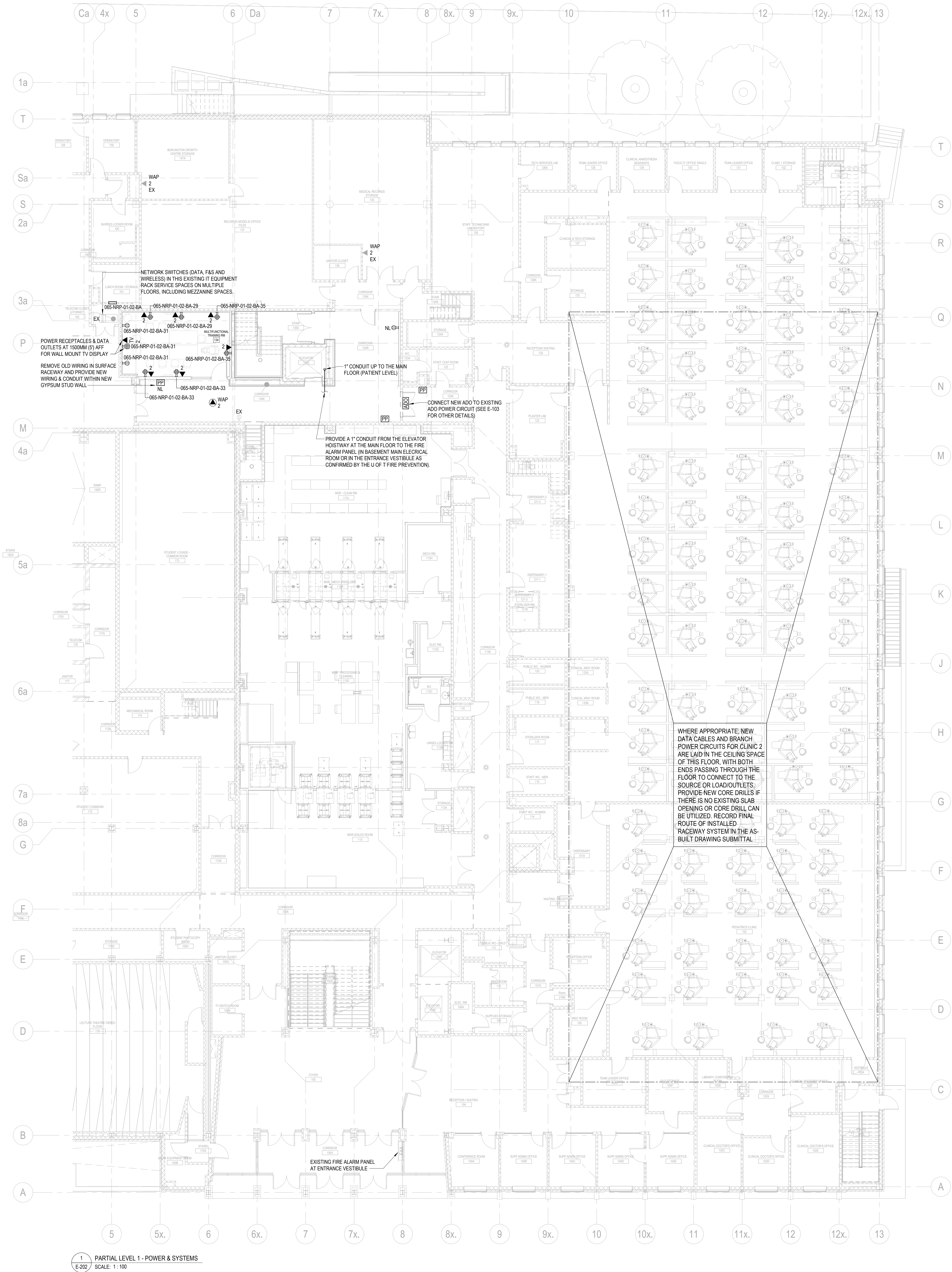
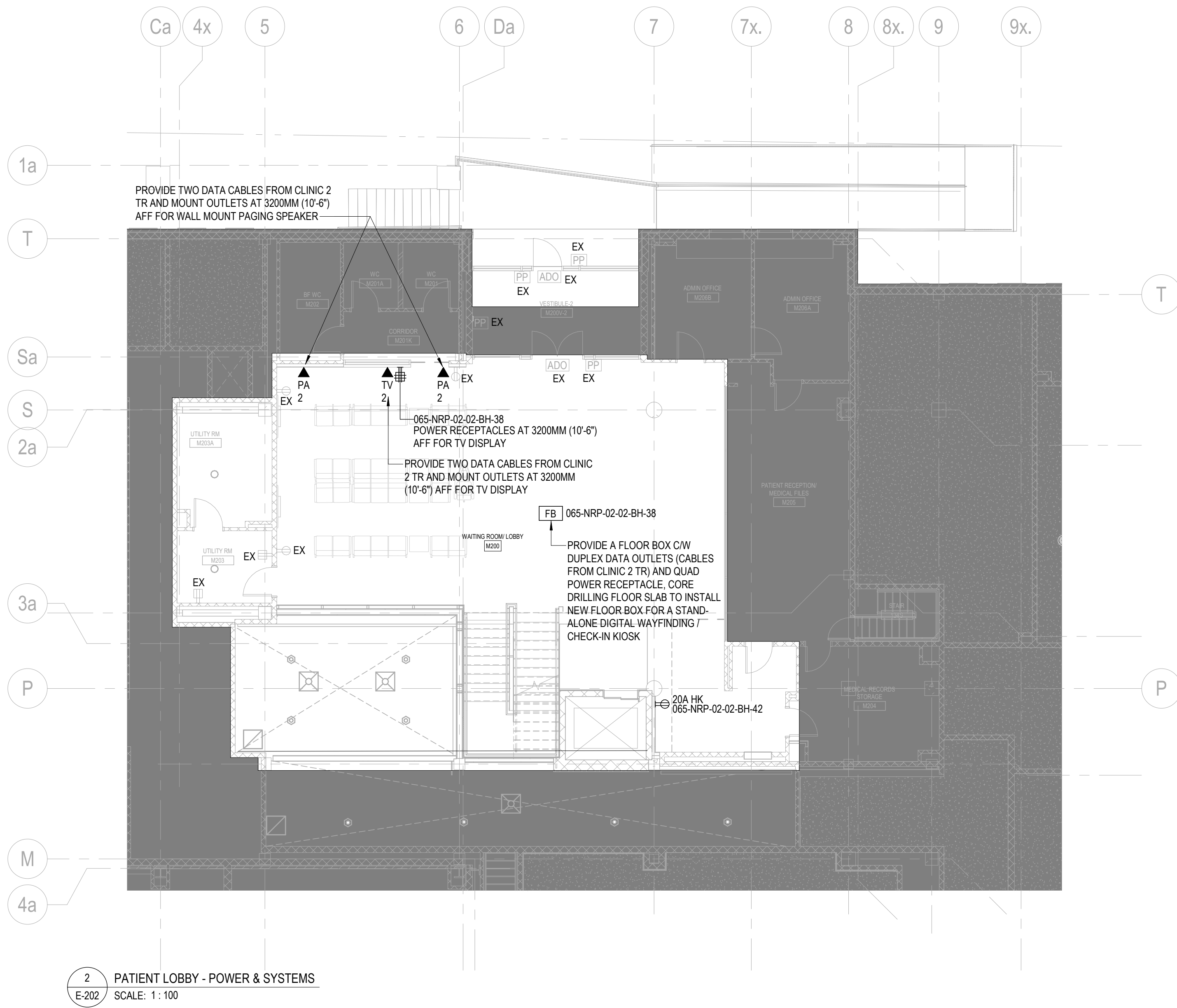
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BASEMENT - POWER & SYSTEMS

SCALE: As indicated
DRAWN BY: Author
REVIEWED BY: Checker
JOB NUMBER: MRK-21019389-A0
PLOT DATE: 05/12/25

DRAWING NUMBER:
E-201

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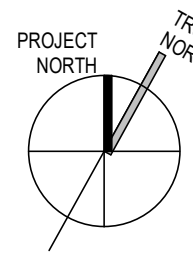
Montgomery Sisam Architects Inc.
187 Spadina Avenue, Toronto, Ontario M5T 2C8 montgomerysisam.com
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7	29 MAY 2025	ISSUED FOR TENDER	EXP
6	29 JAN 2025	ISSUED FOR 10% CD	EXP
5	05 DEC 2025	ISSUED FOR BUILDING PERMIT	EXP
4	26 NOV 2025	RE-ISSUED FOR 80% CD	EXP
3	26 SEPT 2025	ISSUED FOR 80% CD	EXP
2	26 MAY 2025	ISSUED FOR 10% CD	EXP
1	22 MAY 2025	ISSUED FOR CD PROGRESS SET	EXP
#	DATE	REVISION	BY
REVISIONS			

UNIVERSITY OF TORONTO
DENTISTRY BUILDING
CLINIC 2 RENOVATION
MRK-21019389-A0

124 EDWARD STREET
TORONTO, ON M5G 1G6

PARTIAL LEVEL 1 & PATIENT
LOBBY LEVEL - POWER &
SYSTEMS

SCALE: 1:100

DRAWN BY: Author

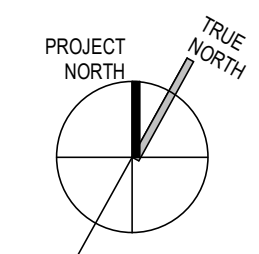
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JOB NUMBER: MRK-21019389-A0

PLOT DATE: 05/12/25

DRAWING NUMBER:

E-202



#	DATE	REVISION	BY
1	29 MAY 2024	ISSUED FOR PERMIT SET	EXP
2	29 MAY 2024	ISSUED FOR 10% CD	EXP
3	26 SEP 2023	ISSUED FOR 80% CD	EXP
4	26 NOV 2023	RE-ISSUED FOR 80% CD	EXP
5	26 SEP 2023	ISSUED FOR 80% CD	EXP
6	19 JUN 2024	ISSUED FOR 10% CD	EXP
7	19 JUN 2024	ISSUED FOR TENDER	EXP

UNIVERSITY OF TORONTO
DENTISTRY BUILDING
CLINIC 2 RENOVATION
MRK-21019389-A0

124 EDWARD STREET
TORONTO, ON M5G 1G8

PARTIAL LEVEL 2 - POWER &
SYSTEMS

SCALE: As Indicated

DRAWN BY: Author

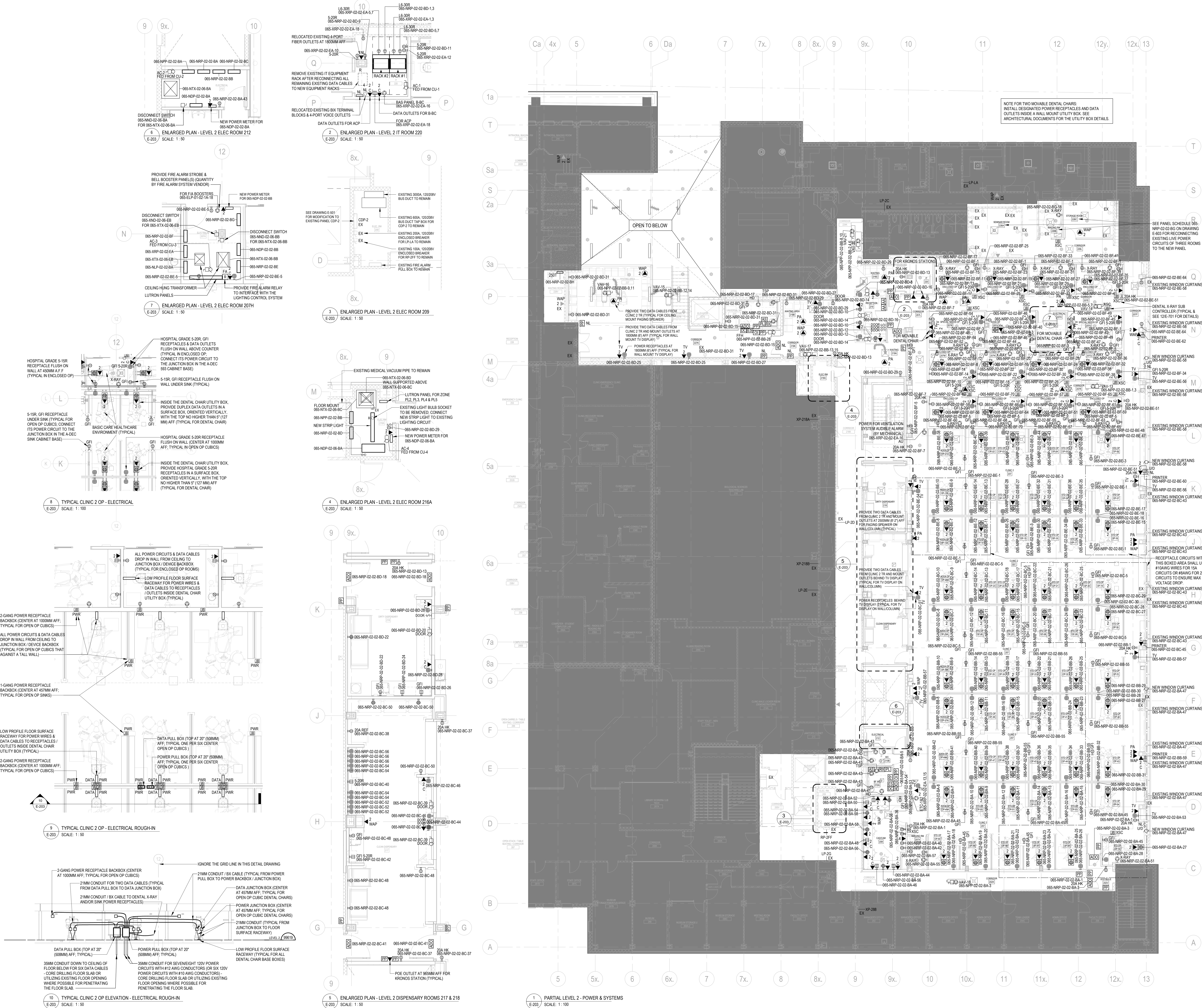
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JOB NUMBER: MRK-21019389-A0

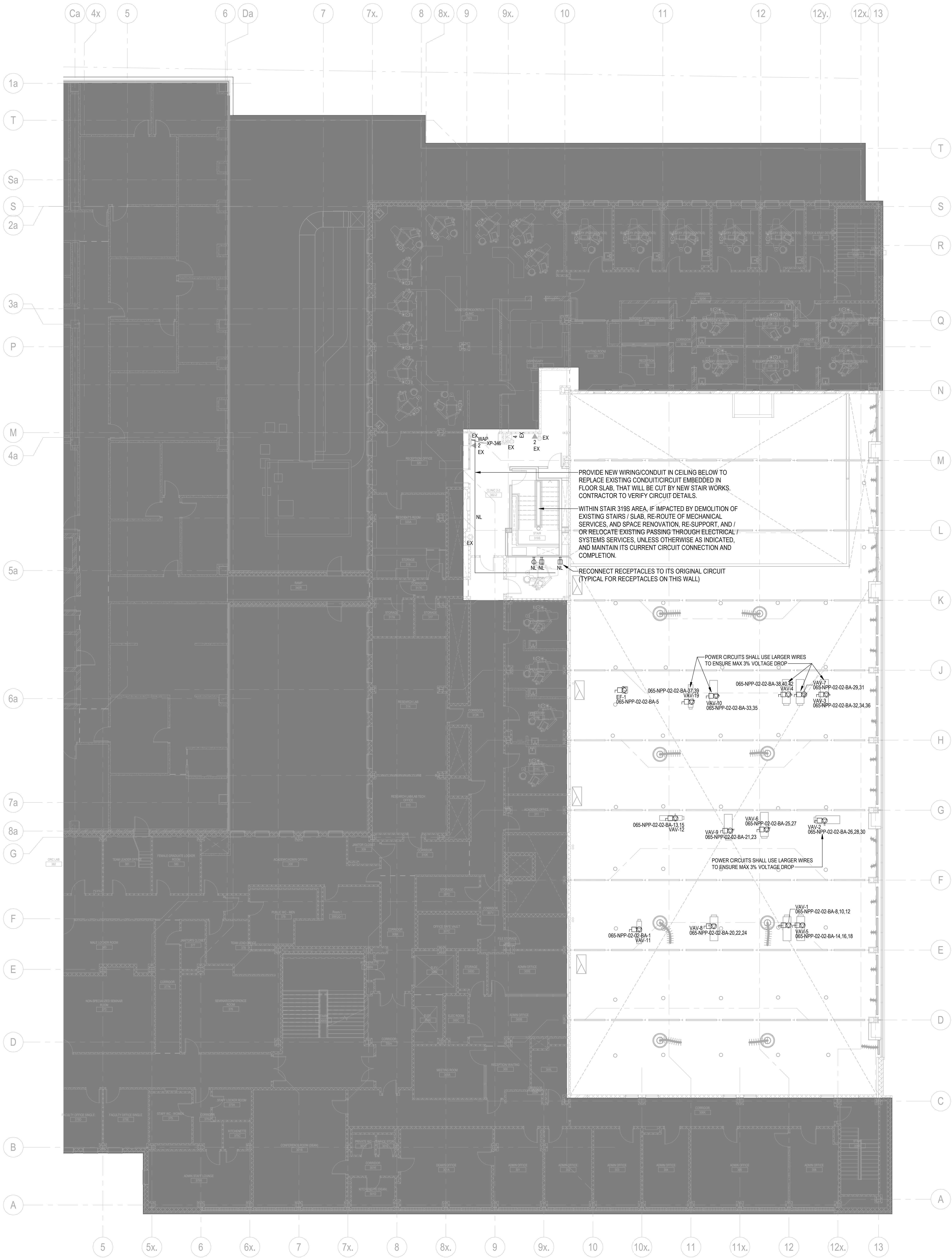
PLOT DATE: 06/19/25

DRAWING NUMBER

E-203



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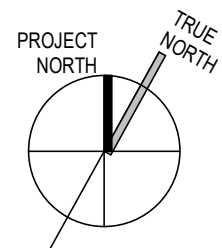
187 Spadina Avenue, Toronto, Ontario M5T 2C8 montgomerysisam.com
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7	29 MAY 2025	ISSUED FOR TENDER	EXP
6	09 JAN 2025	ISSUED FOR 100% CD	EXP
5	05 DEC 2025	ISSUED FOR BUILDING PERMIT	EXP
4	26 NOV 2025	RE-ISSUED FOR 80% CD	EXP
3	26 SEPT 2025	ISSUED FOR 80% CD	EXP
2	20 MAY 2025	ISSUED FOR 100% DD	EXP
1	02 MAY 2025	ISSUED FOR DD PROGRESS SET	EXP
#	DATE:	REVISION:	BY:

REVISIONS

UNIVERSITY OF TORONTO
DENTISTRY BUILDING
CLINIC 2 RENOVATION
MRK-21019389-A0

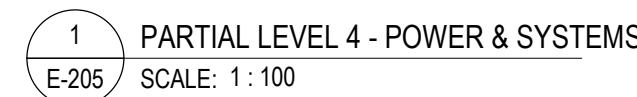
124 EDWARD STREET
TORONTO, ON M5G 1G6

PARTIAL LEVEL 3 - POWER &
SYSTEMS

SCALE: 1 : 100
DRAWN BY: Author
REVIEWED BY: Checker
JOB NUMBER: MRK-21019389-A0
PLOT DATE: 05/12/25

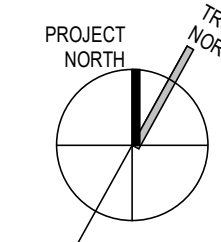
DRAWING NUMBER:

E-204



124 EDWARD STREET

DRAWING NUMBER:



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7	09 JAN 2025	ISSUED FOR 10% CD	EXP
6	05 DEC 2025	ISSUED FOR BUILDING PERMIT	EXP
5	26 NOV 2025	RE-ISSUED FOR 50% CD	EXP
4	26 SEPT 2025	ISSUED FOR 50% CD	EXP
3	15 SEPT 2025	Issued for Clinic 1 Ceiling 100% CD	EXP
2	20 MAY 2025	ISSUED FOR 100% CD	EXP
1	20 MAY 2025	ISSUED FOR CD PROGRESS SET	EXP
#	DATE	REVISION:	BY:
REVISIONS			

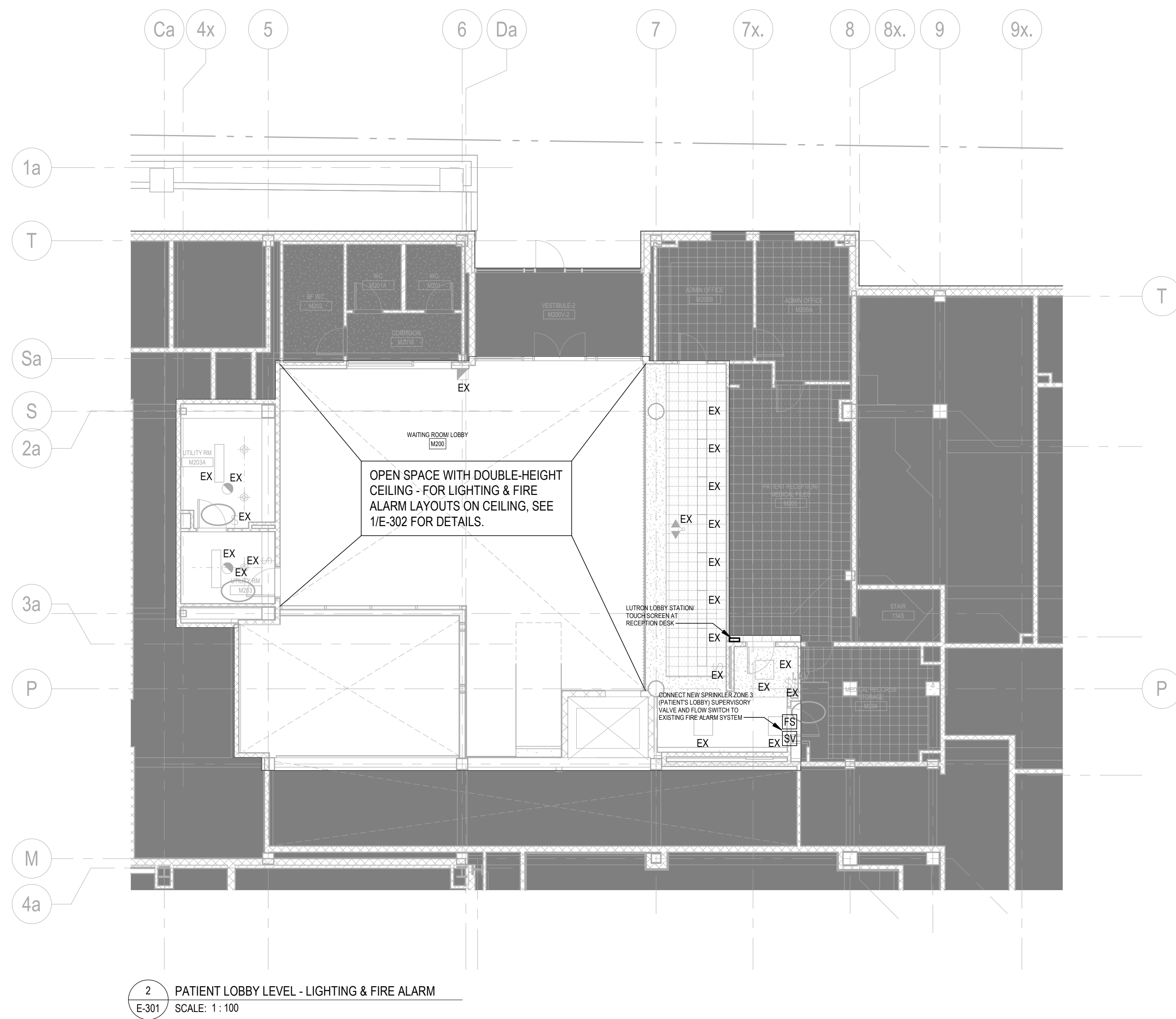
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DENTISTRY BUILDING
CLINIC 2 RENOVATION
MRK-21019389-A0

124 EDWARD STREET
TORONTO, ON M5G 1G8

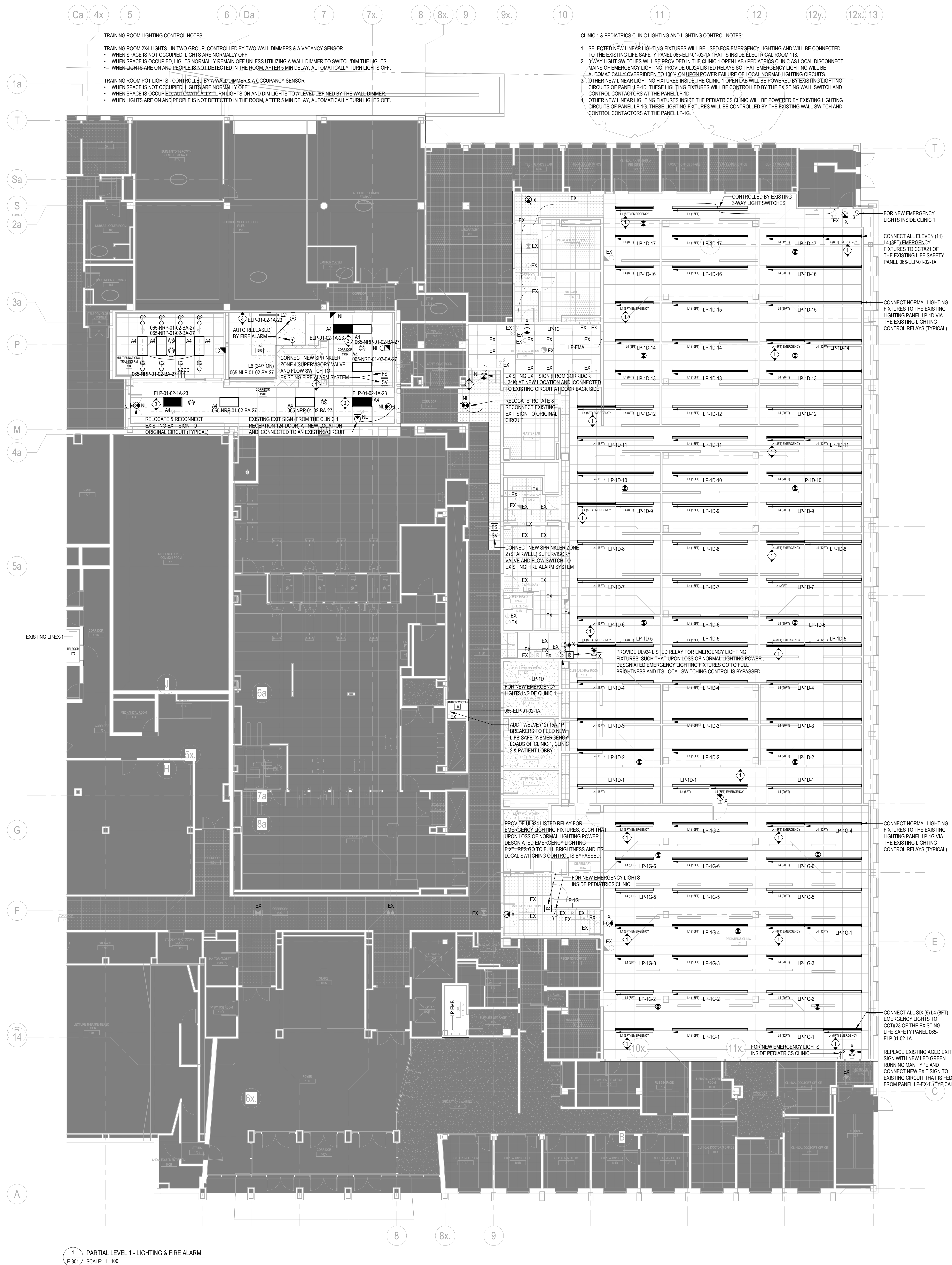
PARTIAL LEVEL 1 & PATIENT
LOBBY LEVEL - LIGHTING & FIRE
ALARM

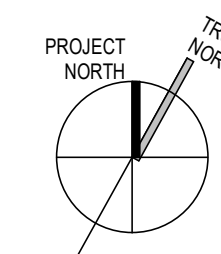
SCALE: 1 : 100
DRAWN BY: Author
REVIEWED BY: Checker
JOB NUMBER: MRK-21019389-A0
PLOT DATE: 06/12/25

DRAWING NUMBER:
E-301



- NOTES:
- 1. PROVIDE UL924 LISTED 0-10V REALY, LVS OR EQUIVALENT FOR FIXTURES INDICATED, SUCH THAT UPON LOSS OF NORMAL POWER, DESIGNATED EMERGENCY LIGHTING FIXTURES GO TO FULL BRIGHTNESS AND DIMMING/ SWITCHING CONTROL IS BYPASSED.
 - 2. LUTRON PANELS FOR ZONES PL1 TO PL5 & TR1 TO TR3 TO BE INSTALLED IN THIS ROOM. EXACT LOCATION TO BE COORDINATED ON SITE.
 - 3. INDICATED EMERGENCY LIGHTING FIXTURE IS 24/7 ON.





7	29 MAY 2024	ISSUED FOR TENDER	EXP
6	19 JUN 2024	ISSUED FOR 10% CD	EXP
5	05 DEC 2023	ISSUED FOR BUILDING PERMIT	EXP
4	26 NOV 2023	RE-ISSUED FOR 80% CD	EXP
3	26 SEPT 2023	ISSUED FOR 80% CD	EXP
2	20 MAY 2023	ISSUED FOR 100% CD	EXP
1	02 MAY 2023	ISSUED FOR CD PROGRESS SET	EXP
#	DATE	REVISION	BY
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UNIVERSITY OF TORONTO
DENTISTRY BUILDING
CLINIC 2 RENOVATION
MRK-21019389-A0

124 EDWARD STREET
TORONTO, ON M5G 1G6

PARTIAL LEVEL 2 & LEVEL 3 -
LIGHTING & FIRE ALARM

SCALE: 1 : 100

DRAWN BY: Author

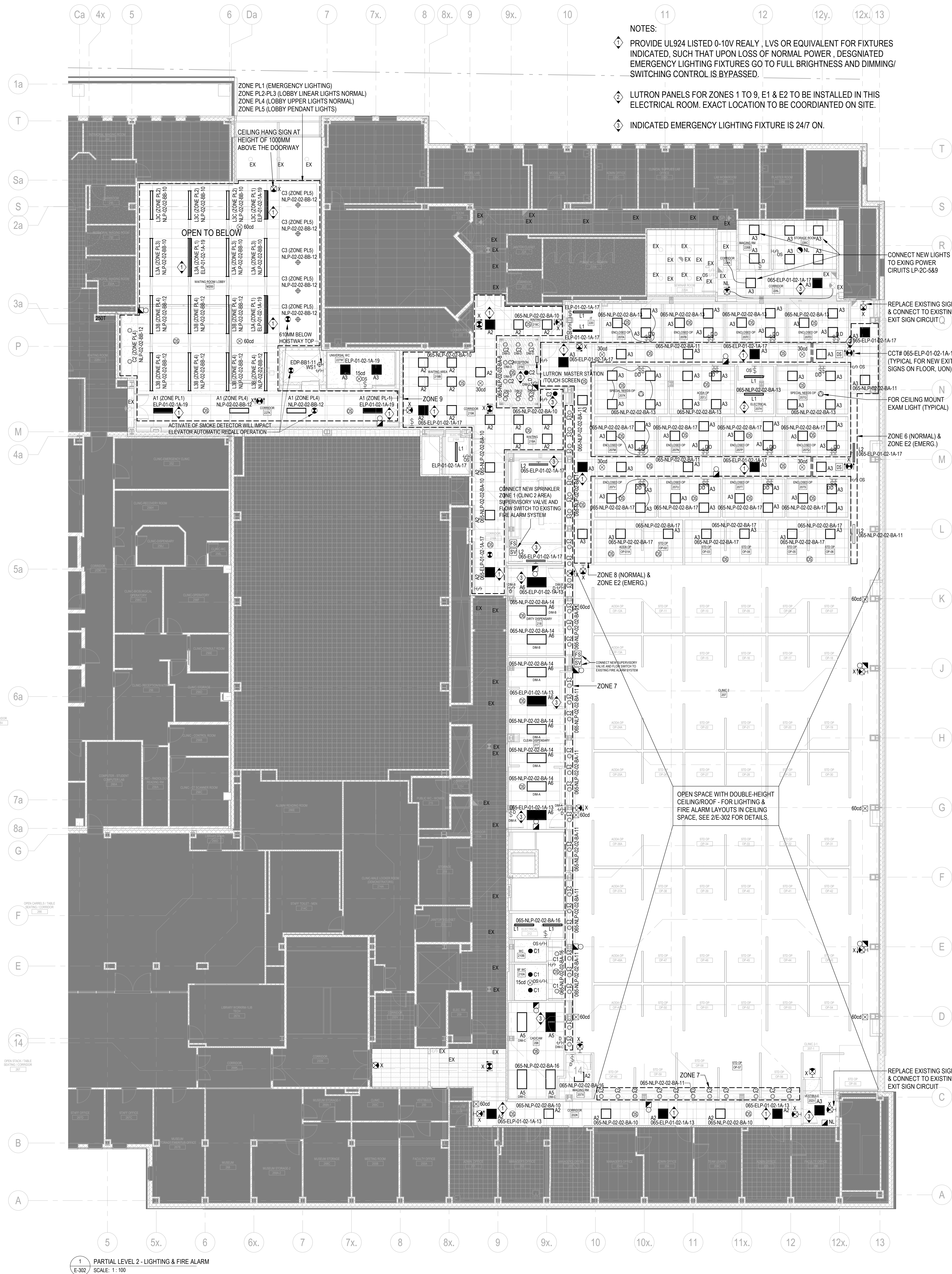
REVIEWED BY: Checker

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PLOT DATE: 06/12/25

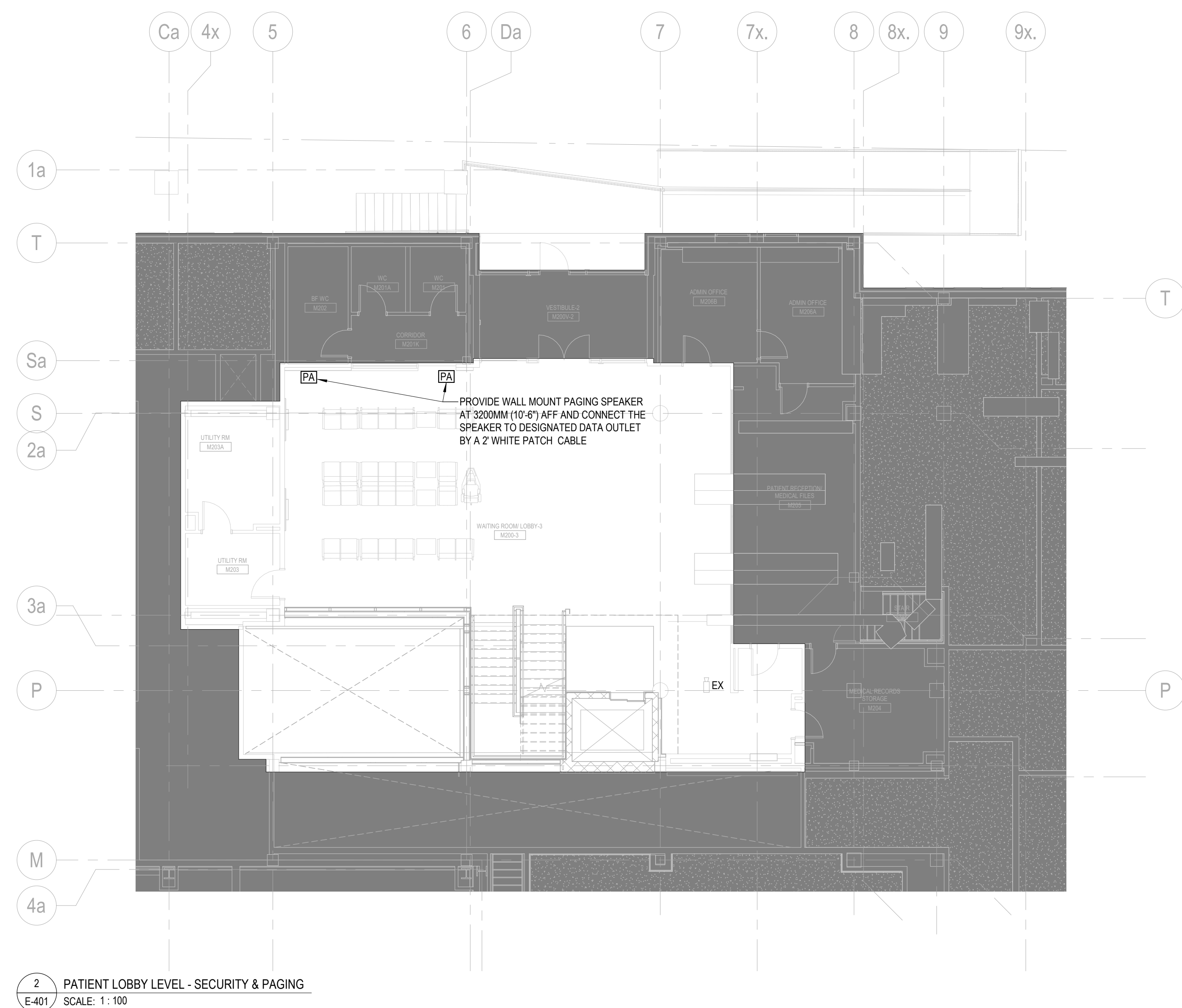
DRAWING NUMBER:

E-302



- NOTES:
- 1 PROVIDE UL924 LISTED 0-10V REALY, LVS OR EQUIVALENT FOR FIXTURES INDICATED, SUCH THAT UPON LOSS OF NORMAL POWER, DESIGNATED EMERGENCY LIGHTING FIXTURES GO TO FULL BRIGHTNESS AND DIMMING/ SWITCHING CONTROL IS BYPASSED.
 - 2 LUTRON PANELS FOR ZONES 1 TO 9, E1 & E2 TO BE INSTALLED IN THIS ELECTRICAL ROOM. EXACT LOCATION TO BE COORDINATED ON SITE.
 - 3 INDICATED EMERGENCY LIGHTING FIXTURE IS 24/7 ON.

2 PARTIAL LEVEL 3 - LIGHTING & FIRE ALARM
E-302 SCALE: 1:100



7	29 MAY 2025	ISSUED FOR TENDER	EXP
6	09 JAN 2025	ISSUED FOR 100% CD	EXP
5	05 DEC 2025	ISSUED FOR BUILDING PERMIT	EXP
4	26 NOV 2025	RE-ISSUED FOR 80% CD	EXP
3	26 SEPT 2025	ISSUED FOR 80% CD	EXP
2	30 MAY 2025	ISSUED FOR 100% DD	EXP
1	02 MAY 2025	ISSUED FOR CD PROGRESS SET	EXP
#	DATE:	REVISION:	BY:
REVISIONS:			

UNIVERSITY OF TORONTO
DENTISTRY BUILDING
CLINIC 2 RENOVATION
MRK-21019389-A0

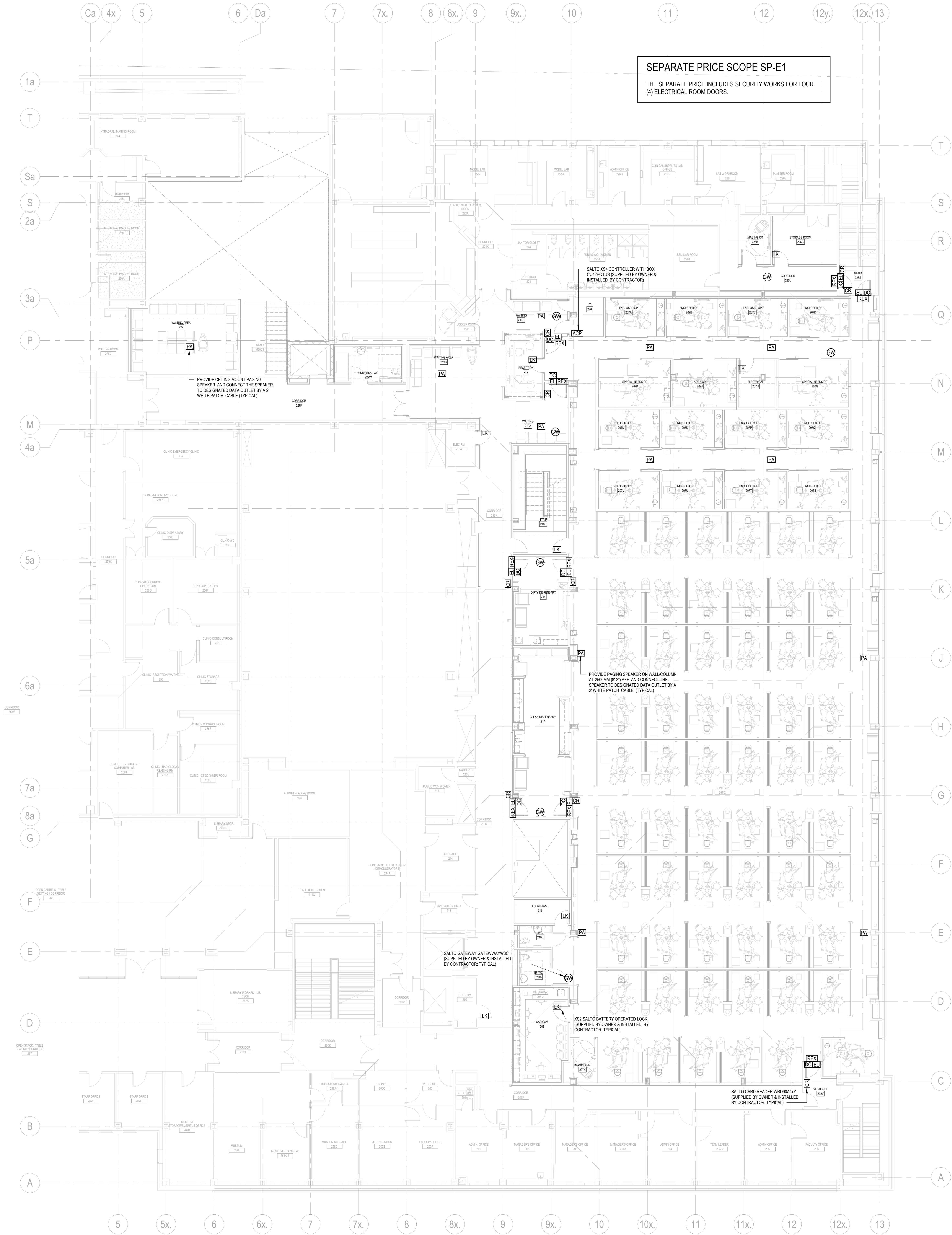
124 EDWARD STREET
TORONTO, ON, M5G 1G8

PATIENT LOBBY LEVEL -
SECURITY & PAGING

SCALE: 1 : 100
DRAWN BY: Author
REVIEWED BY: Checker
JOB NUMBER: MRK-21019389-A0
PLOT DATE: 05/12/25

DRAWING NUMBER:
E-401

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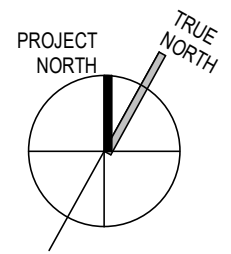


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3	26 SEPT 2023	ISSUED FOR 80% CD	EXP
2	20 MAY 2023	ISSUED FOR 100% CD	EXP
1	02 MAR 2023	ISSUED FOR CD PROGRESS SET	EXP
#	DATE	REVISION	BY
REVISIONS			

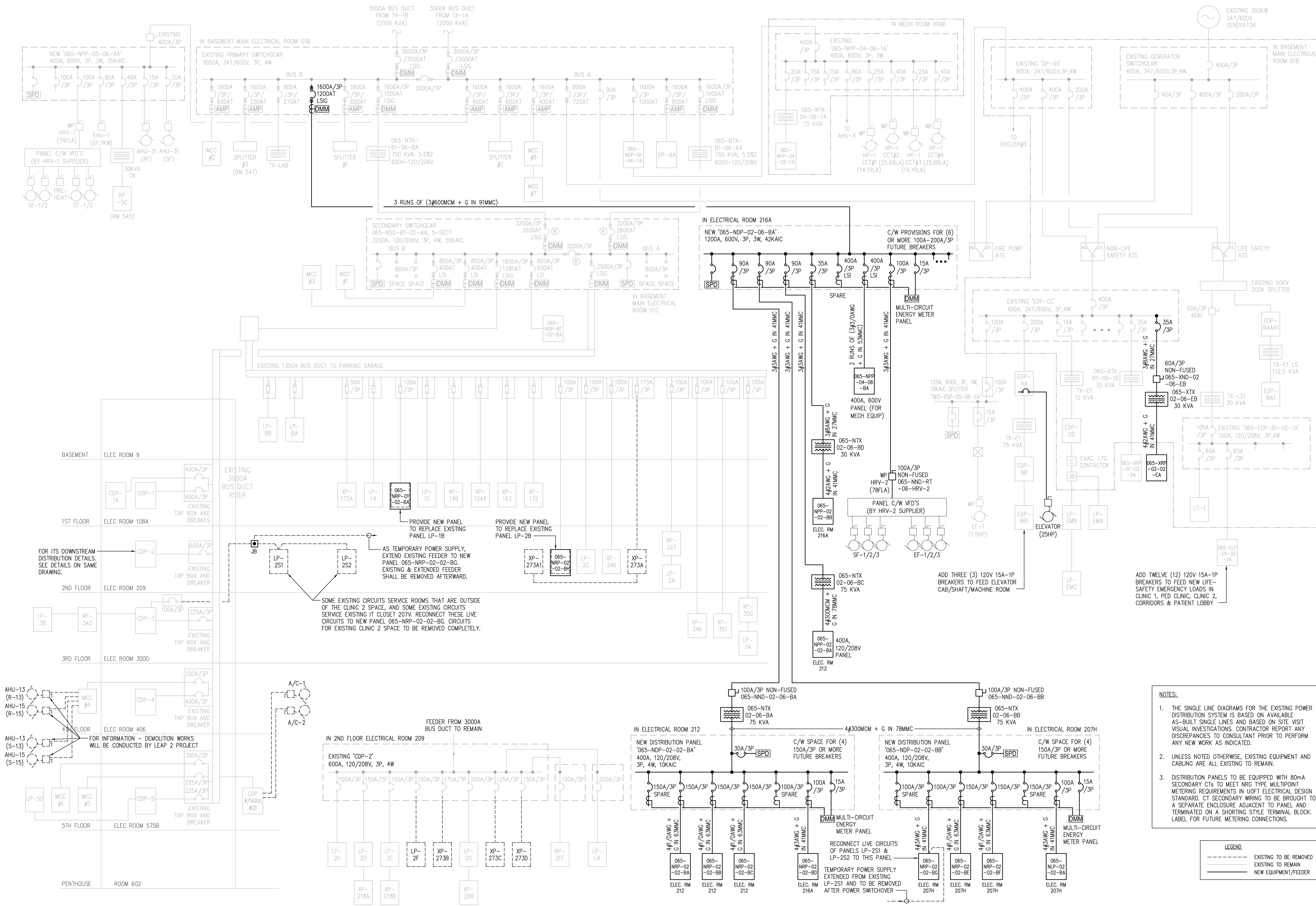
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DENTISTRY BUILDING
CLINIC 2 RENOVATION
MRK-21019389-A0

124 EDWARD STREET
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PARTIAL LEVEL 2 - SECURITY &
PAGING

SCALE: 1 : 100
DRAWN BY: Author
REVIEWED BY: Checker
JOB NUMBER: MRK-21019389-A0
PLOT DATE: 05/12/25

DRAWING NUMBER:
E-402



U OF T FACULTY OF DENTISTRY - CLINIC 2 RENOVATION (P065-20-110)
Electrical Load Estimation (Issued For Tender)

EXP Project #: MRK-21019389-A0
Update Date: 29 MAY, 2026 FOR CD

Categories	GFA (m2)	N+E Load Density (W/m2)	Summer N+E Load (kW)	Winter N+E Load (kW)	Life-Safety Emergency Load (kW)	Non Life-Safety Emergency Load (kW)	Remarks	CSA C22.1 Reference
Classrooms Basic Load (Lighting & Recept)	1,042	50	52.1	52.1	0.52	0		8-204.(1).(a)
Remaining Areas Basic Load	821	10	8.2	8.2	0.41	0		8-204.(1).(b)
Dental Chairs (75 new) & Dental X-Rays (18 new)			62.1	62.1	0	0		8-204.(1).(d)
IT Equipment (LAN Room)			5	5	0	0	5500VA UPS	8-204.(1).(d)
Elevator			18.6	18.6	0	19.25 HP		8-204.(1).(c)
Mechanical (HRV (exclude E-heating))			51.4	51.4	0	0		8-204.(1).(c)
Mechanical (ACs, CUs, etc.)			10.3	10.3	0	0		8-204.(1).(c)
Mechanical (HU-2A & HU-2B)			86.6	129.9	0	0	OE-heating	8-204.(1).(c)
Mechanical (HRV (E-heating))			0	0	0	0	OE-heating	8-204.(1).(c)
Mechanical (VAV boxes (E-heating))			0	70.4	0	0	OE-heating	8-204.(1).(c)
Total Connected Load (kW)			294.3	408.0	0.9	23.6		
Load Increase/Decrease Due to the Renovation								
Existing Fluorescent Lighting (To be removed)			-45.5	-45.5	0	-2.5		
IT Equipment (LAN Room)			-1.5	-1.5	0	0	Q1500VA UPS	
Mechanical (AHU-13&15, A/C-1&2 & (2)EF)			-50.1	-50.1	0	0		
Mechanical (Condensing Units of AHU-13&15)			-40	-40	0	0		
(96) Dental Chairs & (19) X-Ray to be removed			-74.6	-74.6	0	0		
Total Removed Load (kW)			-211.8	-211.8	0.0	-2.5		
Total Load Added to Power System (kW)			82.5	196.2	0.9	21.1		
Demand Load Calculation Using Power Factors as per 8-206.(2)								
Electric Space Heating			86.6	200.3	0	0	ODF = 1	8-204.(2).(b).(i)
First 900 m2 of the Building			-1.5	-1.5	0.3	7.6 DF = 0.75		8-204.(2).(b).(ii).(A)
Building Portion in Excess of 900 m2			-1.1	-1.1	0.2	5.5 DF = 0.5		8-204.(2).(b).(ii).(B)
Total Demand Load Added to Power System (kW)			84.0	197.7	0.6	13.1		

UNIVERSITY OF TORONTO
DENTISTRY BUILDING
CLINIC 2 RENOVATION
MRK-21019389-A0

124 EDWARD STREET
TORONTO, ON M5G 1G8

SINGLE LINE DIAGRAM

SCALE: 1 : 1

DRAWN BY: Author

REVIEWED BY: Checker

JOB NUMBER: MRK-21019389-A0

PLOT DATE: 06/10/25

DRAWING NUMBER:

E-501



NOTES:

1. NEW FIBER OPTIC BACKBONE CABLES ARE NOT REQUIRED FOR THIS PROJECT. FOR NEW IDF ROOM, RELOCATE THE FIBER OPTIC PATCH PANEL FROM OLD RACK TO NEW RACK, AND RE-ROUTE / RE-SUPPORT EXISTING FIBER CABLE.
2. ALL EXISTING DATA AND VOICE DROPS WITHIN THE CLINIC 2 SPACES SHALL BE REMOVED AND CUT BACK TO THE SOURCE.
3. CONTRACTOR TO SUBMIT THE IP ADDRESS FORM NAMED "F&S NETWORK - IP ADDRESS REQUEST" AS AN RFI AFTER THE BAS / METER / SECURITY / LIGHTING CONTROL SYSTEM SHOP DRAWINGS ARE REVIEWED BY CONSULTANTS. CXA AND UOFT. FORM WILL BE PROVIDED BY UOFT FOR THE DEVICES THAT ARE PLANNED TO PLUG INTO F&S NETWORK SWITCHES. THIS WILL ALLOW UOFT TO BE ABLE TO ASSIGN PORTS ON THE SWITCHES.
4. FOR EXISTING CLOSET 207V, OLD EQUIPMENT RACK SHALL BE REMOVED. OLD PATCH PANELS (FIBER & COPPER) AND OLD NETWORK SWITCHES SHALL BE RELOCATED TO A NEW RACK. OLD BIX BOX SHALL BE RELOCATED TO A NEW WALL. ALL EXISTING TO REMAIN CABLES SHALL BE RE-PATCHED TO RELOCATED PATCH PANELS.
5. CONNECT ALL WAP DATA DROPS TO A DEDICATED PATCH PANEL AND THEN PATCH THE DROPS TO WIRELESS SWITCH.
6. CONNECT ALL PA / TV DATA DROPS TO A DEDICATED PATCH PANEL AND THEN PATCH THE DROPS TO AV SYSTEM POE SWITCH.
7. CONNECT ALL FACILITY DATA DROPS (BAS / METER / SECURITY / LIGHTING CONTROL) TO A DEDICATED PATCH PANEL AND THEN PATCH THE DROPS TO F&S SWITCH.
8. CONNECT OTHER DATA DROPS (COMPUTER / VOIP PHONES / PAGING SPEAKERS / TV DISPLAYS / ETC.) TO DEDICATED PATCH PANELS AND THEN PATCH THE DROPS TO UNIVERSITY DATA SWITCH.
9. PATCH CABLES AND DATA JACK ON PATCH PANELS SHALL BE COLOR CODED AS PER SPECIFICATIONS.

6	29 MAY 2025	ISSUED FOR TENDER	EXP
5	09 JUN 2025	ISSUED FOR 100% CD	EXP
4	01 DEC 2025	ISSUED FOR BUILDING PERMIT	EXP
3	26 NOV 2025	RE-ISSUED FOR 80% CD	EXP
2	26 SEPT 2025	ISSUED FOR 80% CD	EXP
1	20 MAY 2025	ISSUED FOR 100% CD	EXP
#	DATE	REVISION	BY
REVISIONS			

UNIVERSITY OF TORONTO
DENTISTRY BUILDING
CLINIC 2 RENOVATION
MRK-21019389-A0

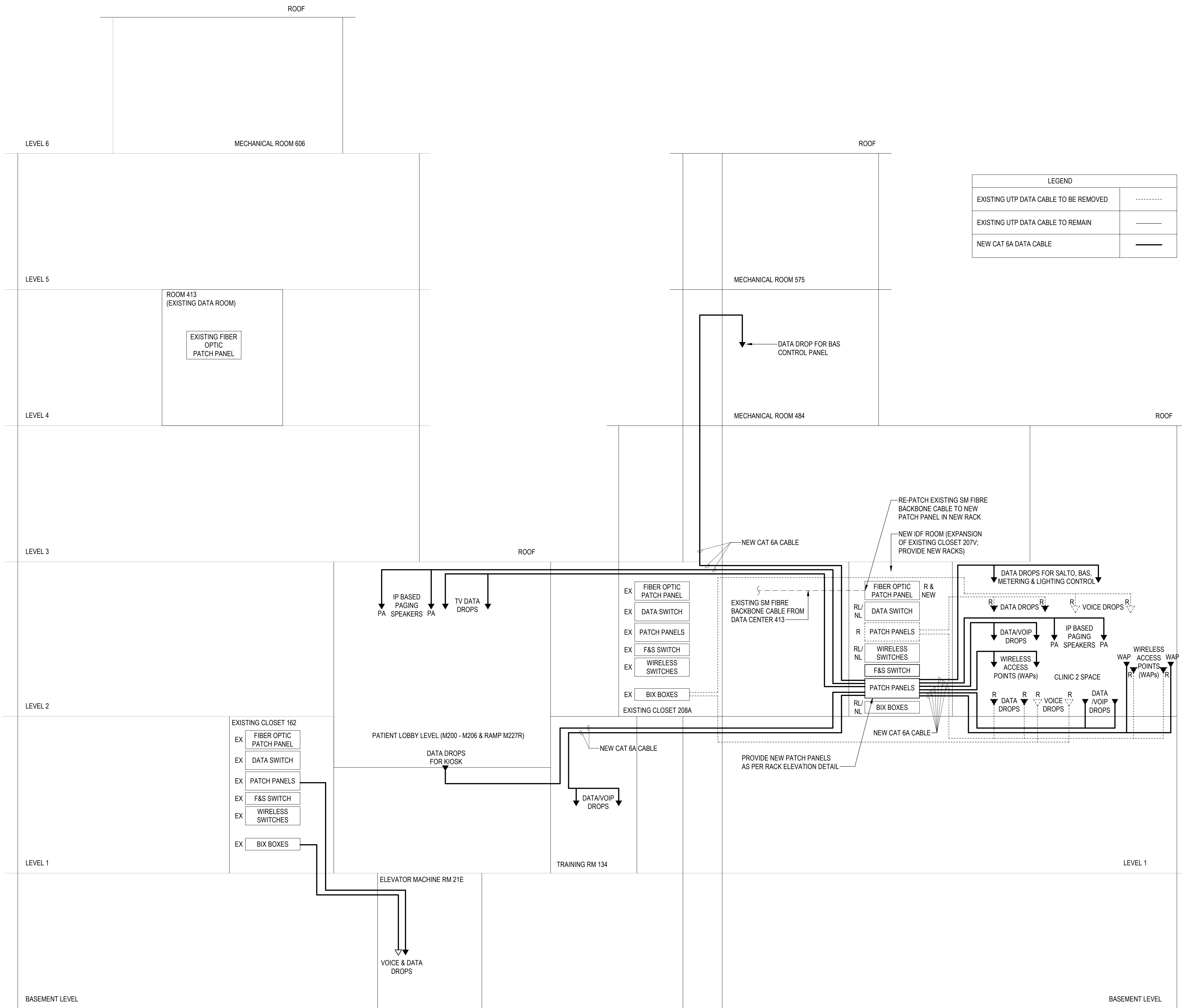
124 EDWARD STREET
TORONTO, ON M5G 1G8

COMMUNICATIONS RISER
DIAGRAM

SCALE: NTS
DRAWN BY: Author
REVIEWED BY: Checker
JOB NUMBER: MRK-21019389-A0
PLOT DATE: 05/12/25

DRAWING NUMBER:

E-503



BRANCH PANEL: 065-NRP-02-02-BC											
LOCATION: ELECTRICAL 212 SUPPLY FROM: 065-NDP-02-02-BA MOUNTING: Surface ENCLOSURE: Type 1				VOLTS: 120/208 Wye PHASES: 3 WIRES: 4				A.I.C. RATING: 10 KAIC MAINS TYPE: COPPER BUSES MAINS RATING: 225 A MCB RATING: 0 A			
CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT	
1	Spare	15 A	1	0 VA	0 VA					2	
3	Spare	15 A	1		0 VA	0 VA		3	30 A SPD (INTEGRAL)	4	
5	GFI Receptacles at hand sinks 207	15 A	1			300 VA	0 VA			6	
7	DENTAL CHAIR RECEPTACLE OP-25A	20 A	1	540 VA	360 VA			1	20 A Receptacle ACDA OP-25A	8	
9	DENTAL CHAIR RECEPTACLE OP-24A	20 A	1		540 VA	360 VA		1	20 A Receptacle ACDA OP-24A	10	
11	DENTAL CHAIR RECEPTACLE OP-26	20 A	1			540 VA	360 VA	1	20 A Receptacle STD OP-26	12	
13	DENTAL CHAIR RECEPTACLE OP-23	20 A	1	540 VA	360 VA			1	20 A Receptacle STD OP-23	14	
15	DENTAL CHAIR RECEPTACLE OP-27	20 A	1		540 VA	360 VA		1	20 A Receptacle STD OP-27	16	
17	DENTAL CHAIR RECEPTACLE OP-22	20 A	1			540 VA	360 VA	1	20 A Receptacle STD OP-22	18	
19	DENTAL CHAIR RECEPTACLE OP-28	20 A	1	540 VA	360 VA			1	20 A Receptacle STD OP-28	20	
21	DENTAL CHAIR RECEPTACLE OP-21	20 A	1		540 VA	360 VA		1	20 A Receptacle STD OP-21	22	
23	DENTAL CHAIR RECEPTACLE OP-29	20 A	1			540 VA	360 VA	1	20 A Receptacle STD OP-29	24	
25	DENTAL CHAIR RECEPTACLE OP-20	20 A	1	540 VA	360 VA			1	20 A Receptacle STD OP-20	26	
27	DENTAL CHAIR RECEPTACLE OP-30	20 A	1		540 VA	360 VA		1	20 A Receptacle STD OP-30	28	
29	DENTAL CHAIR RECEPTACLE OP-19	20 A	1			540 VA	360 VA	1	20 A Receptacle STD OP-19	30	
31	Spare	20 A	1	0 VA	0 VA			1	20 A Spare	32	
33	Spare	20 A	1		0 VA	0 VA		1	20 A Spare	34	
35	Spare	20 A	1			0 VA	0 VA	1	20 A Spare	36	
37	HK Receptacles 207, 217	20 A	1	540 VA	250 VA			1	20 A Receptacle CLEAN DISPENSARY 217 REF	38	
39	(2) ROLLING DOORS CLEAN DISPENSARY 217	20 A	1		360 VA	250 VA		1	20 A Receptacle CLEAN DISPENSARY 217	40	
41	(2) ADD CLEAN DISPENSARY 217	20 A	1			360 VA	800 VA	1	20 A Receptacle CLEAN DISPENSARY 217	42	
43	EXISTING MOTORIZED WINDOW CURTAINS 217	15 A	1	600 VA	720 VA			1	15 A Receptacle CLEAN DISPENSARY 217	44	
45	Receptacle PRINTER 207 East Wall	15 A	1		800 VA	720 VA		1	15 A Receptacle CLEAN DISPENSARY 217	46	
47	Spare	15 A	1			0 VA	720 VA	1	15 A Receptacle CLEAN DISPENSARY 217	48	
49	Spare	15 A	1	0 VA	900 VA			1	15 A Receptacle CLEAN DISPENSARY 217	50	
51	Receptacles TV 207 West Wall	15 A	1		360 VA	1080 VA		1	15 A Receptacle CLEAN DISPENSARY 217	52	
53	Spare	15 A	1			0 VA	1440 VA	1	15 A Receptacle CLEAN DISPENSARY 217	54	
55	Spare	15 A	1	0 VA	1080 VA			1	15 A Receptacle CLEAN DISPENSARY 217	56	
57	Spare	15 A	1		0 VA	0 VA		1	15 A Spare	58	
59	Spare	15 A	1			0 VA	0 VA	1	15 A Spare	60	
61	Spare	15 A	1	0 VA	0 VA			1	15 A Spare	62	
63	Spare	15 A	1		0 VA	0 VA		1	15 A Spare	64	
65	Spare	15 A	1			0 VA	0 VA	1	15 A Spare	66	
67	Space	--	1	--	--			1	-- Space	68	
69	Space	--	1	--	--			1	-- Space	70	
71	Space	--	1	--	--			1	-- Space	72	
73	Space	--	1	--	--			1	-- Space	74	
75	Space	--	1	--	--			1	-- Space	76	
77	Space	--	1	--	--			1	-- Space	78	
79	Space	--	1	--	--			1	-- Space	80	
81	Space	--	1	--	--			1	-- Space	82	
83	Space	--	1	--	--			1	-- Space	84	
TOTAL LOAD:		7690 VA		7170 VA		7220 VA					
TOTAL AMPS:		64 A		60 A		60 A					
PANEL TOTALS											
LOAD CLASSIFICATION		CONNECTED...		DEMAND FACTOR		ESTIMATED...					
Other		6480 VA		100.00%		6480 VA					
Receptacle		15600 VA		82.05%		12800 VA					
								TOTAL CONN. LOAD: 22080 VA			
								TOTAL EST. DEMAND: 19280 VA			
								TOTAL CONN. CURRENT: 61 A			
								TOTAL EST. DEMAND CURRENT: 54 A			
NOTES:											
1. Circuits #19 - #30, #45 shall use #10AWG wires for 15A recept circuits or #8AWG for 20A recept circuits to ensure max 3% voltage drop.											

BRANCH PANEL: 065-NRP-02-02-BB											
LOCATION: ELECTRICAL 212 SUPPLY FROM: 065-NDP-02-02-BA MOUNTING: Surface ENCLOSURE: Type 1				VOLTS: 120/208 Wye PHASES: 3 WIRES: 4				A.I.C. RATING: 10 KAIC MAINS TYPE: COPPER BUSES MAINS RATING: 225 A MCB RATING: 0 A			
CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT	
1	HK Receptacles 207	20 A	1	360 VA	0 VA			3	30 A	SPD (INTEGRAL)	2
3	Spare	20 A	1		0 VA	0 VA					4
5	Spare	20 A	1			0 VA	0 VA				6
7	DENTAL CHAIR RECEPTACLE OP-37A	20 A	1	540 VA	360 VA			1	20 A	Receptacle ACDA OP-37A	8
9	DENTAL CHAIR RECEPTACLE OP-36A	20 A	1		540 VA	360 VA		1	20 A	Receptacle ACDA OP-36A	10
11	DENTAL CHAIR RECEPTACLE OP-38	20 A	1			540 VA	360 VA	1	20 A	Receptacle STD OP-38	12
13	DENTAL CHAIR RECEPTACLE OP-35	20 A	1	540 VA	360 VA			1	20 A	Receptacle STD OP-35	14
15	DENTAL CHAIR RECEPTACLE OP-39	20 A	1		540 VA	360 VA		1	20 A	Receptacle STD OP-39	16
17	DENTAL CHAIR RECEPTACLE OP-34	20 A	1			540 VA	360 VA	1	20 A	Receptacle STD OP-34	18
19	DENTAL CHAIR RECEPTACLE OP-40	20 A	1	540 VA	360 VA			1	20 A	Receptacle STD OP-40	20
21	DENTAL CHAIR RECEPTACLE OP-33	20 A	1		540 VA	360 VA		1	20 A	Receptacle STD OP-33	22
23	DENTAL CHAIR RECEPTACLE OP-41	20 A	1			540 VA	360 VA	1	20 A	Receptacle STD OP-41	24
25	DENTAL CHAIR RECEPTACLE OP-32	20 A	1	540 VA	360 VA			1	20 A	Receptacle STD OP-32	26
27	DENTAL CHAIR RECEPTACLE OP-42	20 A	1		540 VA	360 VA		1	20 A	Receptacle STD OP-42	28
29	DENTAL CHAIR RECEPTACLE OP-31	20 A	1			540 VA	360 VA	1	20 A	Receptacle STD OP-31	30
31	DENTAL CHAIR RECEPTACLE OP-43	20 A	1	540 VA	360 VA			1	20 A	Receptacle STD OP-43	32
33	DENTAL CHAIR RECEPTACLE OP-44	20 A	1		540 VA	360 VA		1	20 A	Receptacle STD OP-44	34
35	DENTAL CHAIR RECEPTACLE OP-45	20 A	1			540 VA	360 VA	1	20 A	Receptacle STD OP-45	36
37	DENTAL CHAIR RECEPTACLE OP-46	20 A	1	540 VA	360 VA			1	20 A	Receptacle STD OP-46	38
39	DENTAL CHAIR RECEPTACLE OP-47	20 A	1		540 VA	360 VA		1	20 A	Receptacle STD OP-47	40
41	DENTAL CHAIR RECEPTACLE OP-48A	20 A	1			540 VA	360 VA	1	20 A	Receptacle ACDA OP-48A	42
43	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	44
45	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	46
47	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	48
49	Spare	20 A	1	0 VA	0 VA			1	15 A	Spare	50
51	Spare	20 A	1		0 VA	0 VA		1	15 A	Spare	52
53	Spare	20 A	1			0 VA	0 VA	1	15 A	Spare	54
55	GFI Receptacles at hand sinks 207	15 A	1	450 VA	0 VA			1	15 A	Spare	56
57	Receptacles at TV 207	15 A	1		720 VA	0 VA		1	15 A	Spare	58
59	Receptacle PRINTER 207 East Wall	15 A	1			800 VA	0 VA	1	15 A	Spare	60
61	Spare	15 A	1	0 VA	0 VA			1	15 A	Spare	62
63	Spare	15 A	1		0 VA	0 VA		1	15 A	Spare	64
65	Spare	15 A	1			0 VA	0 VA	1	15 A	Spare	66
67	Space	--	1	--	--			1	--	Space	68
69	Space	--	1	--	--			1	--	Space	70
71	Space	--	1	--	--		--	1	--	Space	72
73	Space	--	1	--	--		--	1	--	Space	74
75	Space	--	1	--	--		--	1	--	Space	76
77	Space	--	1	--	--		--	1	--	Space	78
79	Space	--	1	--	--		--	1	--	Space	80
81	Space	--	1	--	--		--	1	--	Space	82
83	Space	--	1	--	--		--	1	--	Space	84
TOTAL LOAD:		6210 VA		6120 VA		6200 VA					
TOTAL AMPS:		52 A		51 A		52 A					
PANEL TOTALS											
LOAD CLASSIFICATION		CONNECTED...	DEMAND FACTOR	ESTIMATED...							
Other		9720 VA	100.00%	9720 VA							
Receptacle		8810 VA	100.00%	8810 VA							
					TOTAL CONN. LOAD: 18530 VA						
					TOTAL EST. DEMAND 18530 VA						
					TOTAL CONN. CURRENT 51 A						
					TOTAL EST. DEMAND CURRENT 51 A						
NOTES:											
1. Circuits #1, #27 - #32, #59 shall use #10AWG wires for 15A recept circuits or #8AWG for 20A recept circuits to ensure max 3% voltage drop.											

BRANCH PANEL: 065-NRP-01-02-BA											
LOCATION: TELECOM CLOSET .162 SUPPLY FROM: 1350A BUS DUCT MOUNTING: Recessed ENCLOSURE: Type 1				VOLTS: 120/208 Wye PHASES: 3 WIRES: 4				A.I.C. RATING: 18 KAIC MAINS TYPE: MCB RATING: 100 A			
CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT	
1	LIGHTING (O&L LP-1B-1)	20 A	1	600 VA	900 VA			1	15 A (O&L LP-1B-2)	2	
3	LIGHTING (O&L LP-1B-3)	15 A	1		600 VA	900 VA		1	15 A (O&L LP-1B-4)	4	
5	LIGHTING (O&L LP-1B-5)	15 A	1			600 VA	900 VA	1	15 A (O&L LP-1B-6)	6	
7	LIGHTING (O&L LP-1B-7)	15 A	1	600 VA	900 VA			1	15 A (O&L LP-1B-8)	8	
9	LIGHTING (O&L LP-1B-9)	15 A	1		600 VA	900 VA		1	15 A (O&L LP-1B-10)	10	
11	LIGHTING (O&L LP-1B-11)	15 A	1			600 VA	900 VA	1	15 A (O&L LP-1B-12)	12	
13	RECEPTACLES (O&L LP-1B-13)	15 A	1	900 VA	400 VA			1	15 A PANOREX MACHINE 220 (O&L LP-1B-14)	14	
15	RECEPTACLES (O&L LP-1B-15)	15 A	1		900 VA	400 VA		1	15 A ELA-1ST DOORS (O&L LP-1B-16)	16	
17	RECEPTACLES (O&L LP-1B-17)	15 A	1			900 VA	0 VA	1	15 A Spare (O&L LP-1B-18)	18	
19	IT RACK POWER 162 (O&L LP-1B-19)	15 A	1	1200 VA	0 VA			1	15 A Spare (O&L LP-1B-20)	20	
21					--	0 VA				22	
23	Space	--	3		--	0 VA		3	30 A SPD (INTEGRAL)	24	
25				--	0 VA					26	
27	LEVEL 1 LIGHTING 134, 134K, 134R, 135S	20 A	1		352 VA	0 VA		1	15 A Spare	28	
29	RECEPTACLES RM 134	15 A	1			720 VA	0 VA	1	15 A Spare	30	
31	RECEPTACLES RM 134	15 A	1	720 VA	0 VA			1	15 A Spare	32	
33	RECEPTACLES RM 134	15 A	1		720 VA	0 VA		1	15 A Spare	34	
35	RECEPTACLES RM 134	15 A	1			720 VA	0 VA	1	20 A Spare	36	
37	Space	--	1	--	--	--	--	1	-- Spare	38	
39	Space	--	1	--	--	--	--	1	-- Spare	40	
41	Space	--	1	--	--	--	--	1	-- Spare	42	
TOTAL LOAD:				6220 VA	5372 VA	5340 VA					
TOTAL AMPS:				52 A	45 A	45 A					
LOAD CLASSIFICATION				CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS				
Lighting				352 VA	100.00%	352 VA	TOTAL CONST. LOAD: 16932 VA				
Receptacle				2880 VA	100.00%	2880 VA	TOTAL EST. DEMAND 16932 VA				
Space				13700 VA	100.00%	13700 VA	TOTAL CONST. CURRENT 47 A				
							TOTAL EST. DEMAND CURRENT 47 A				
NOTES:											
1. REPLACE EXISTING PANEL LP-1B WITH THIS NEW PANEL. RECONNECT ALL LP-1B LINE CIRCUITS TO THE NEW PANEL.											
2. LOAD INFO FOR ALL LIVE CIRCUITS IS BASED ON OBSOLETE LP-1B PANEL DIRECTORY & AS-BUILTS. SO CONTRACTOR MUST INVESTIGATE ON SITE TO CONFIRM AND UPDATE IT ACCORDINGLY. CONTRACTOR TO PROVIDE A FINAL PANEL DIRECTORY.											

BRANCH PANEL: 065-NLP-02-02-B

LOCATION: ELECTRICAL 20TH
SUPPLY FROM: 065-NDP-02-02-BB
MOUNTING: Surface
ENCLOSURE: Type 1

VOLTS: 120/208 Vlye
PHASES: 3
WIRES: 4

I.C.G. RATING:
MAINS TYPE: COPPER BUSES
MAINS RATING: 100 A
MCB RATING: 0 A

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	LIGHTING (CLINIC 2 open OPs)	20 A	1	727 VA	0 VA					4
3	LIGHTING (CLINIC 2 open OPs)	20 A	1		727 VA	0 VA				2
5	LIGHTING (CLINIC 2 open OPs)	20 A	1			872 VA	0 VA			6
7	LIGHTING (CLINIC 2 open OPs)	20 A	1	727 VA	112 VA				1	8
9	LIGHTING (CLINIC 2 open OPs)	20 A	1		872 VA	356 VA			1	10
11	LIGHTING (CLINIC 2 SOFFITS & CORRIDOR)	20 A	1			819 VA	0 VA	1	20 A LIGHTING (RECEPTION 219)	12
13	LIGHTING (CLINIC 2 XODs & ENCLOSED OPs)	20 A	1	708 VA	300 VA			1	20 A LIGHTING (CLINIC 2 Clean/Dirty Dispensary)	14
15	EXAM LIGHTS (CLINIC 2 XODs+ OPs)	20 A	1		300 VA	230 VA		1	20 A LIGHTING (CLINIC 2 CAD/CAM & CORRIDOR)	16
17	LIGHTING (CLINIC 2 ENCLOSED & STD OPs)	20 A	1			810 VA	0 VA	1	20 A Spare	18
19	Spare	20 A	1	0 VA	0 VA			1	20 A Spare	20
21	Spare	20 A	1		0 VA	0 VA		1	20 A Spare	22
23	Spare	20 A	1			0 VA	0 VA	1	20 A Spare	24
25	Spare	--	1	--	--			1	-- Spare	26
27	Spare	--	1	--	--			1	-- Spare	28
29	Spare	--	1	--	--		--	1	-- Spare	30
31	Spare	--	1	--	--			1	-- Spare	32
33	Spare	--	1	--	--			1	-- Spare	34
35	Spare	--	1	--	--	--	--	1	-- Spare	36
37	Spare	--	1	--	--			1	-- Spare	38
39	Spare	--	1	--	--			1	-- Spare	40
41	Spare	--	1	--	--	--	--	1	-- Spare	42
TOTAL LOAD:				2574 VA	2485 VA	2501 VA				
TOTAL AMPS:				21 A	21 A	21 A				

LOAD CLASSIFICATION

Heating

Lighting

Other

CONNECTED...

300 VA

7230 VA

30 VA

DEMAND FACTOR

100.00%

100.00%

100.00%

ESTIMATED...

300 VA

7230 VA

30 VA

PANEL TOTALS

TOTAL CONN. LOAD: 7560 VA

TOTAL EST. DEMAND 7560 VA

TOTAL CONN. CURRENT 21 A

TOTAL EST. DEMAND CURRENT 21 A

NOTES:

BRANCH PANEL: 065-NRP-02-02-BG

LOCATION: ELECTRICAL 20TH

SUPPLY FROM: 065-NDP-02-02-BB

MOUNTING: Surface

ENCLOSURE: Type 1

VOLTS: 220/208 Wye

PHASES: 3

WIRES: 4

A.I.C. RATING: 18 KAIC

MAINS TYPE: COPPER BUSES

MAINS RATING: 225 A

MCB RATING: 100 A

KCT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	KCT									
1	Spare	15 A	1	0 VA	0 VA					2									
3	Spare	15 A	1		0 VA	0 VA				4									
5	Spare	15 A	1			0 VA	0 VA			6									
7	RECEPT RM 226A (OLD LP-251-6)	15 A	1	360 VA	540 VA			1	15 A SPD (INTEGRAL)	8									
9	RECEPT RM 226A (OLD LP-251-6)	15 A	1		360 VA	180 VA		1	15 A RECEPT RM 226B (OLD LP-252-15)	10									
11	RECEPT RM 226A (OLD LP-251-10)	15 A	1				360 VA	360 VA	1	15 A RECEPT RM 226B (OLD LP-252-12)	12								
13	RECEPT RM 226A (OLD LP-251-16)	15 A	1	360 VA	0 VA				1	15 A (OLD LP-252-22 IF USED FOR LIVE LOAD)	14								
15	RECEPT RM 226A (OLD LP-251-18)	15 A	1		180 VA	0 VA			1	15 A (OLD LP-252-34 IF USED FOR LIVE LOAD)	16								
17	(OLD LP-251-17 IF USED FOR LIVE LOAD)	15 A	1			0 VA	1200 VA	1	15 A DENTAL X-RAY IMAGING RM 226R	18									
19	(OLD LP-251-20 IF USED FOR LIVE LOAD)	15 A	1	0 VA	0 VA			1	15 A Spare	20									
21	(OLD LP-251-22 IF USED FOR LIVE LOAD)	15 A	1		0 VA	0 VA		1	15 A Spare	22									
23	Spare	15 A	1				0 VA	0 VA	1	15 A (OLD XP-272A-37 IF USED FOR LIVE LOAD)	24								
25	Spare	15 A	1	0 VA	360 VA				1	15 A (OLD XP-272A-33 IF USED FOR LIVE LOAD)	26								
27	Spare	15 A	1		0 VA	360 VA			1	15 A (OLD XP-272A-35 IF USED FOR LIVE LOAD)	28								
29	Spare	15 A	1				0 VA	360 VA	1	15 A (OLD XP-272A-36 IF USED FOR LIVE LOAD)	30								
31				600 VA					1	15 A COMMS CLOSET ROCKET (OLD XP-272A-12)	32								
33					1500 VA				1	20 A COMMS CLOSET ROCKET (OLD LP-251-15)	34								
35							600 VA	1	15 A COMMS CLOSET ROCKET (OLD XP-272A-13D)	36									
37											38								
39											40								
41											42								
TOTAL LOAD:		2220 VA	19 A	2580 VA	2880 VA														
TOTAL AMPS:			19 A	22 A	24 A														
LOAD CLASSIFICATION										PANEL TOTALS									
Receptacle										TOTAL CONN. LOAD: 7680 VA									
Spare										TOTAL EST. DEMAND 7680 VA									
										TOTAL COVN. CURRENT 21 A									
										TOTAL EST. DEMAND CURRENT 21 A									

NOTES:

1. Circuits #1, #13 & #35 temporarily reconnect existing communication closet 207V receptacles, and become "SPARE" circuits after demolition of the receptacles.

2. Electrical contractor to provide final panel directory for this panel once all of the loads are transferred over.

BRANCH PANEL: 065-NRP-02-02-BH

LOCATION: ELEC COLLECT 20ST
SUPPLY FROM: 1350A BUS DUCT
MOUNTING: Recessed
ENCLOSURE: Type 1

VOLTS: 120/208 Vlye
PHASES: 3
WIRES: 4

A.I.C. RATING: 18 KAlC
MAINS TYPING: COPPER BUSES
MAINS RATING: 225 A
MCB RATING: 100 A

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT			
1	DOOR OPERATOR M201 (Oid LP-2B-21)	15 A	1	200 VA	600 VA		1	15 A	LIGHTING (Oid LP-2B-2)	2			
3	LIGHTING M200V (Oid LP-2B-3)	15 A	1		600 VA	600 VA	1	15 A	LIGHTING (Oid LP-2B-4)	4			
5	RECEPTACLE 228 (Oid LP-2B-5/7)	15 A	2	0 VA	900 VA		600 VA	0 VA	15 A	LIGHTING (Oid LP-2B-6)	6		
9	Spare (Oid LP-2B-9)	15 A	1		0 VA	450 VA		1	15 A	HAND DRYER (Oid LP-2B-8)	8		
11	Spare (Oid LP-2B-11)	15 A	1				0 VA	520 VA	1	15 A	LIGHTING PATIENT LOBBY M200	10	
13	Spare (Oid LP-2B-13)	15 A	1	0 VA	600 VA				1	15 A	LIGHTING M200V (Oid LP-2B-14)	14	
15	LIGHTING M201, M202 (Oid LP-2B-15)	15 A	1		600 VA	600 VA	1	15 A	LIGHTING M205, M206, M206A (Oid LP-2B-16)	16			
17	LIGHTING M200 (Oid LP-2B-17)	15 A	1			600 VA	600 VA	1	15 A	LIGHTING (Oid LP-2B-17)	18		
19	FAN HEATER M201 (Oid LP-2B-19)	15 A	1	600 VA	600 VA			1	15 A	(Oid LP-2B-20)	20		
21	RECEPTABLE M200, 227K (Oid LP-2B-21)	15 A	1		600 VA	600 VA		1	15 A	(Oid LP-2B-22)	22		
23	(Oid LP-2B-23)	15 A	1				600 VA	600 VA	1	15 A	(Oid LP-2B-24)	24	
25	(Oid LP-2B-25)	15 A	1	600 VA	600 VA			1	15 A	(Oid LP-2B-26)	26		
27	(Oid LP-2B-27)	15 A	1		600 VA	600 VA		1	15 A	(Oid LP-2B-28)	28		
29	(Oid LP-2B-29)	15 A	1			600 VA	600 VA	2	20 A	(Oid LP-2B-30/32)	30		
31	(Oid LP-2B-31)	15 A	1	600 VA	0 VA						32		
33	RECEPTABLE 245A, 246B (Oid LP-2B-33)	15 A	1		600 VA	900 VA		1	15 A	HAND DRYER M202 (Oid LP-2B-34)	34		
35	(Oid LP-2B-35)	15 A	1				600 VA	900 VA	1	15 A	HAND DRYER M201V (Oid LP-2B-36)	36	
37	Spare	15 A	1	0 VA	720 VA				1	15 A	Receptacles (TV) M200	38	
39	Spare	15 A	1					1	20 A	Spare	40		
41	Spare	15 A	1		0 VA	0 VA		0 VA	180 VA	1	20 A	HK Receptacles M200	42
43	Spare	--	1	--	0 VA							44	
45	Spare	--	1		--	0 VA		3	30 A	SPD (INTEGRAL)	46		
47	Spare	--	1				--	0 VA				48	
49	Spare	--	1	--	--				1	--	Space	50	
51	Spare	--	1	--	--				1	--	Space	52	
53	Spare	--	1				--	--	1	--	Space	54	
TOTAL LOAD:				6020 VA	6750 VA	6400 VA							
TOTAL AMPS:				50 A	57 A	54 A							
LOAD CLASSIFICATION		CONNECTED...		DEMAND FACTOR		ESTIMATED...		PANEL TOTALS					
Receptacle		800 VA		100.00%		800 VA							
Spare		18270 VA		100.00%		18270 VA		TOTAL CONN. LOAD: 19170 VA					
TOTAL EST. DEMAND 19170 VA													
TOTAL CONN. CURRENT 53 A													
								TOTAL EST. DEMAND CURRENT 53 A					

NOTES:

1. REPLACE EXISTING PANEL LP-2B WITH THIS NEW PANEL. RECONNECT ALL LP-2B LIVE CIRCUITS TO THE NEW PANEL.
2. LOAD INFO FOR ALL LIVE CIRCUITS IS BASED ON OBSOLETE LP-2B PANEL DIRECTORY & AS-BUILT'S. CONTRACTOR SHALL INVESTIGATE ON SITE TO CONFIRM AND UPDATE IT ACCORDINGLY. CONTRACTOR TO PROVIDE A FINAL PANEL DIRECTORY.

5	29 MAY 2026	ISSUED FOR TENDER	EXP
4	09 JAN 2026	ISSUED FOR 100% CD	EXP
3	06 DEC 2025	ISSUED FOR BUILDING PERMIT	EXP
2	26 NOV 2025	RE-ISSUED FOR 80% CD	EXP
1	26 SEPT 2025	ISSUED FOR 80% CD	EXP
#	DATE:	REVISION:	BY:

REVISIONS

124 EDWARD STREET
TORONTO, ON, M5G 1G8

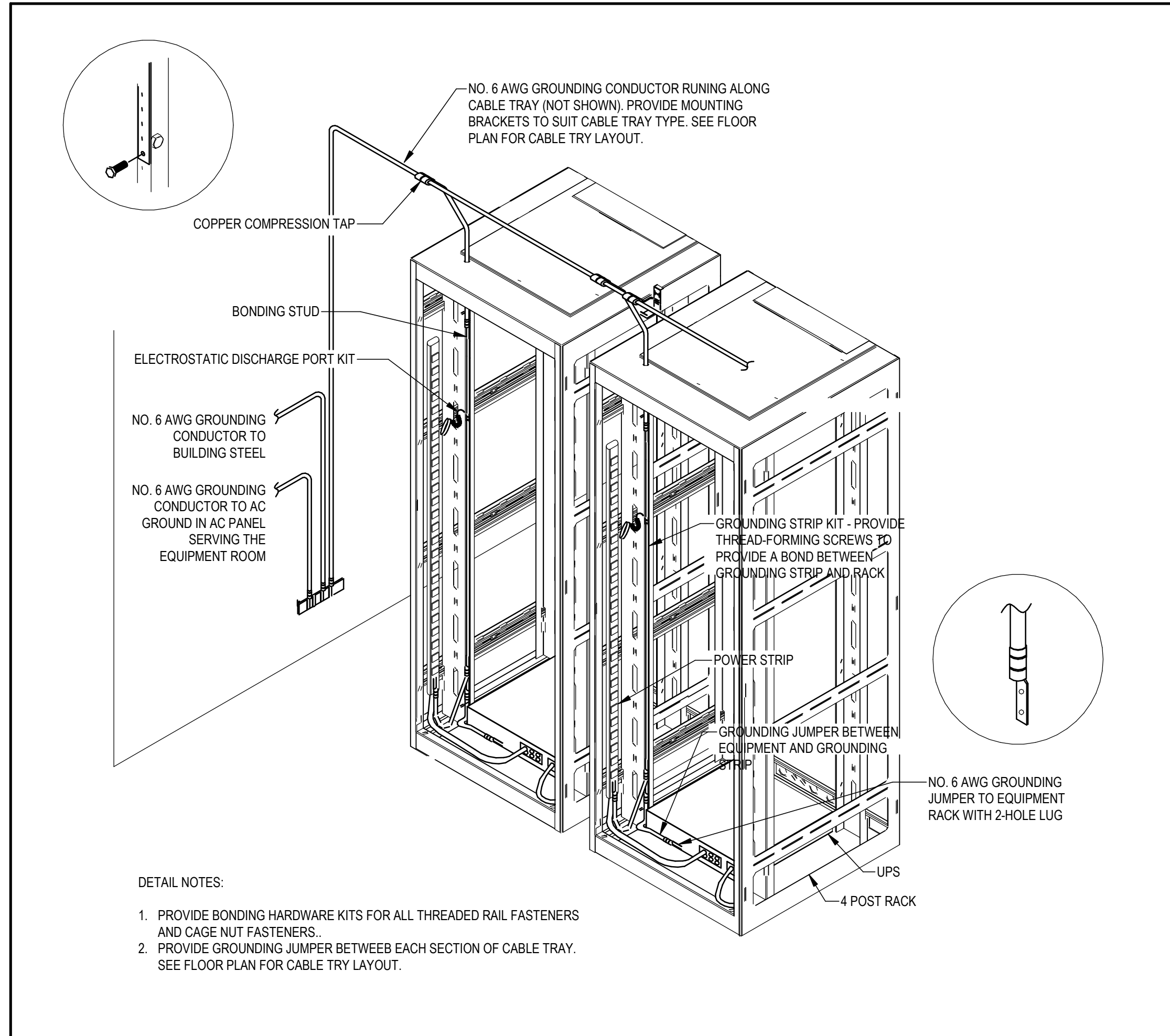
SCALE:

DRAWN BY: Author

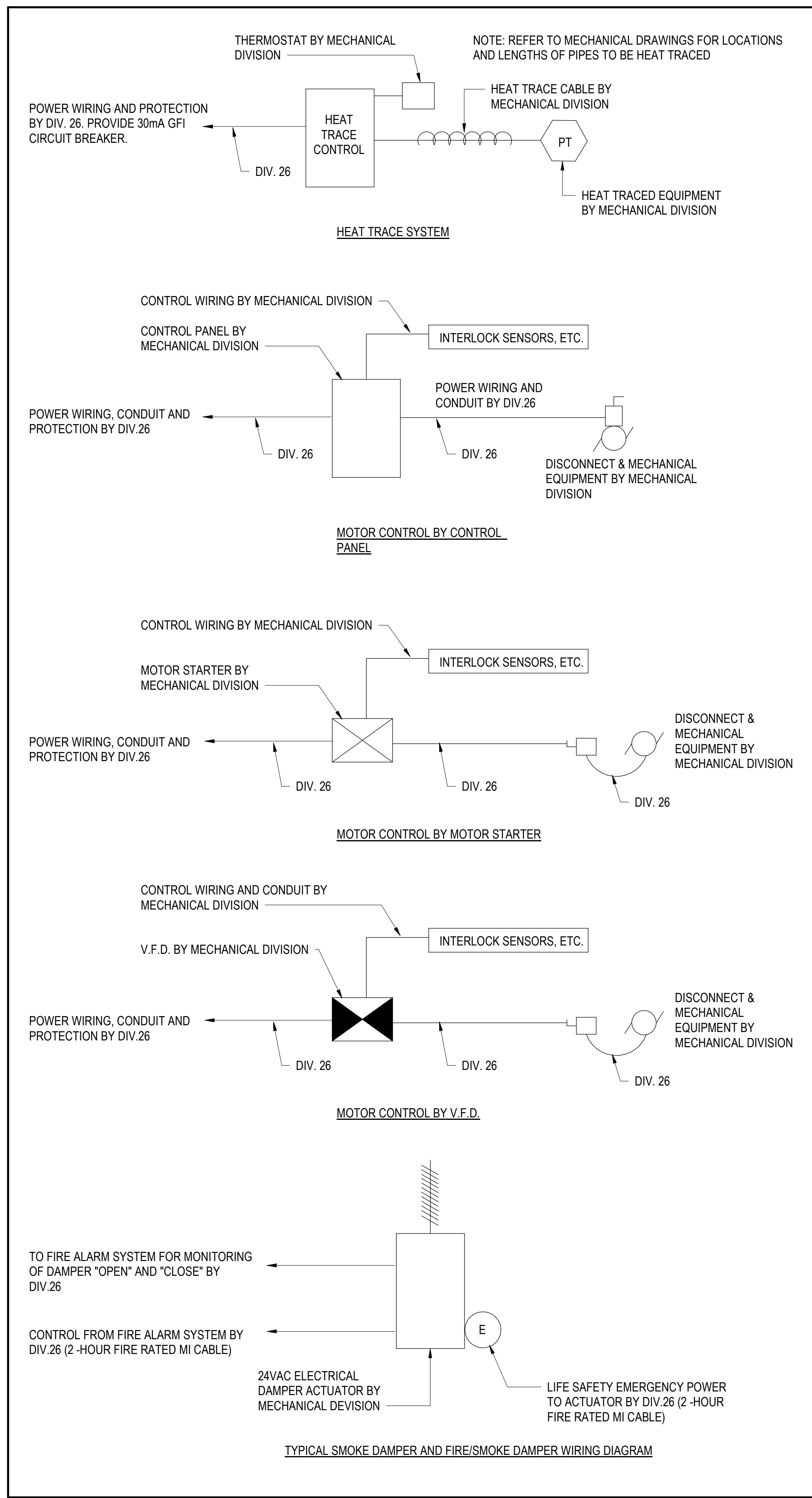
REVIEWED BY: Checker

JOB NUMBER: MRK-21019389-A0

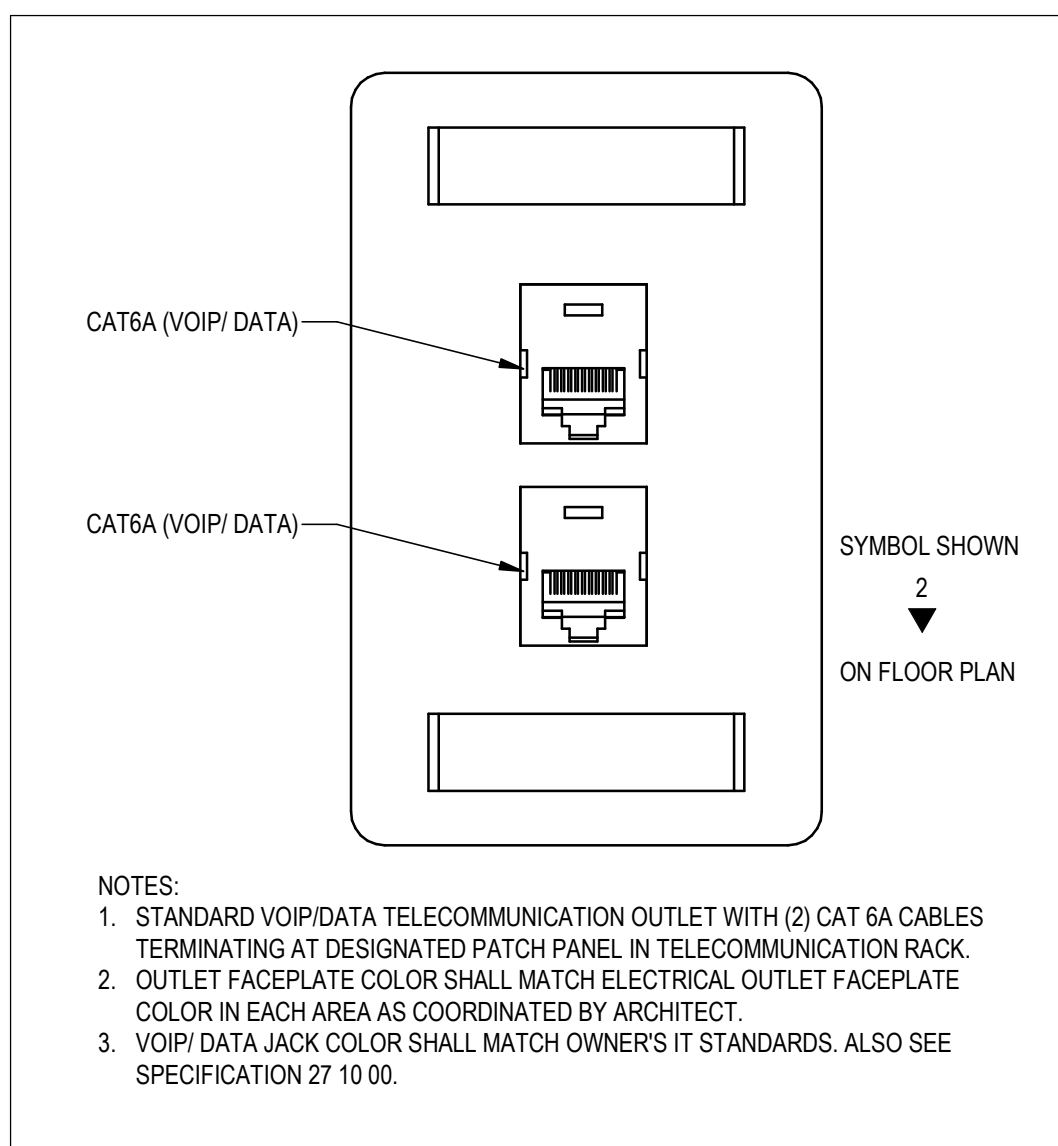
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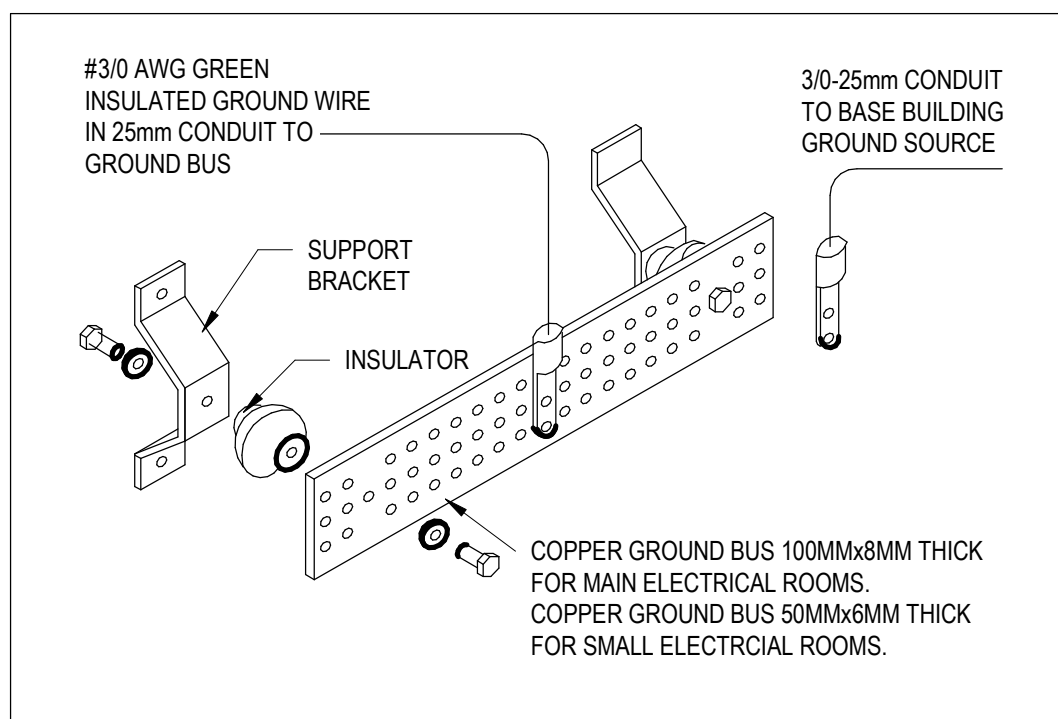
13 TELECOMMUNICATIONS ROOM GROUNDING DETAIL
E-701 SCALE: N.T.S.



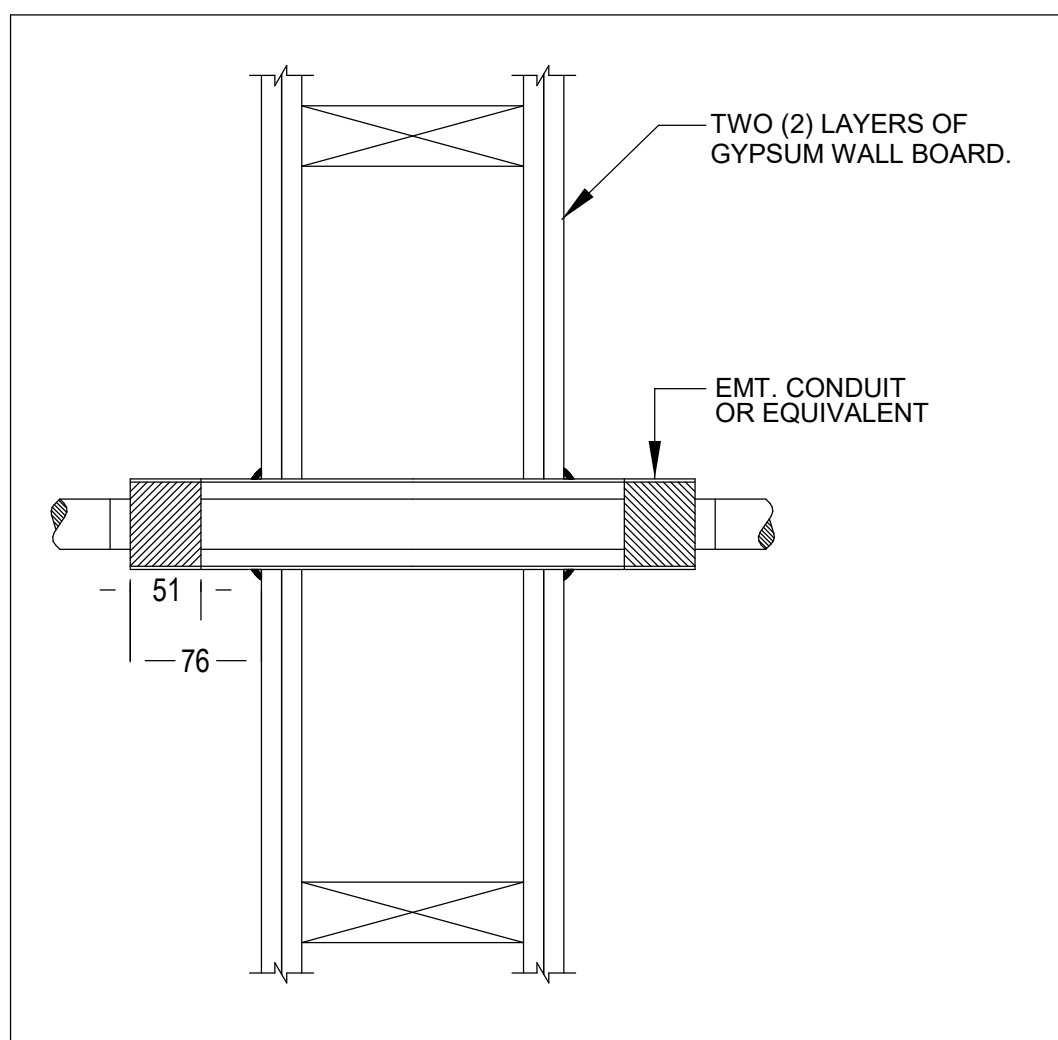
14 TYPICAL MECHANICAL EQUIPMENT/MOTOR CONTROL
E-701 SCALE: N.T.S.



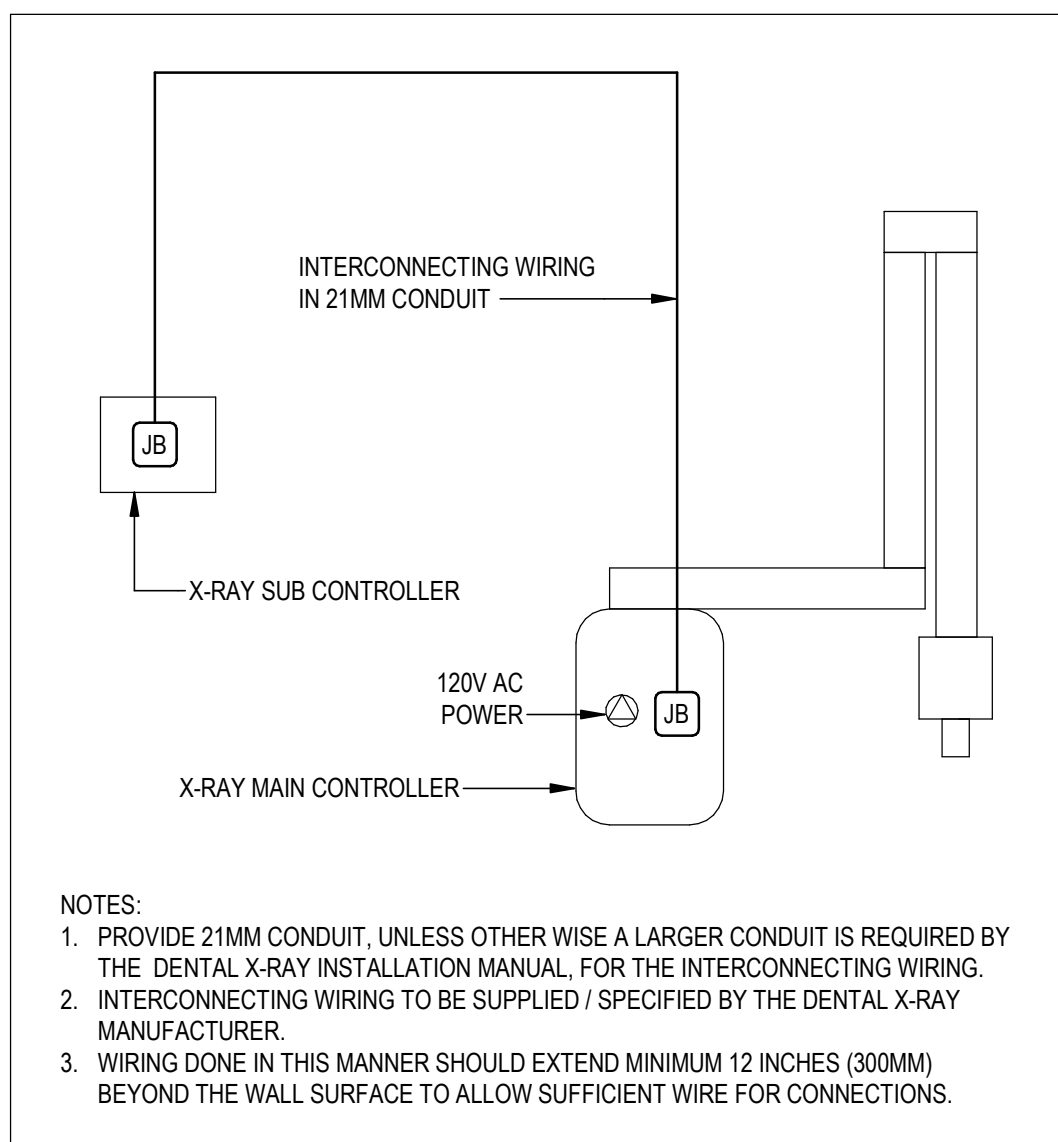
9 STANDARD 2-PORT OUTLET DETAIL
E-701 SCALE: N.T.S.



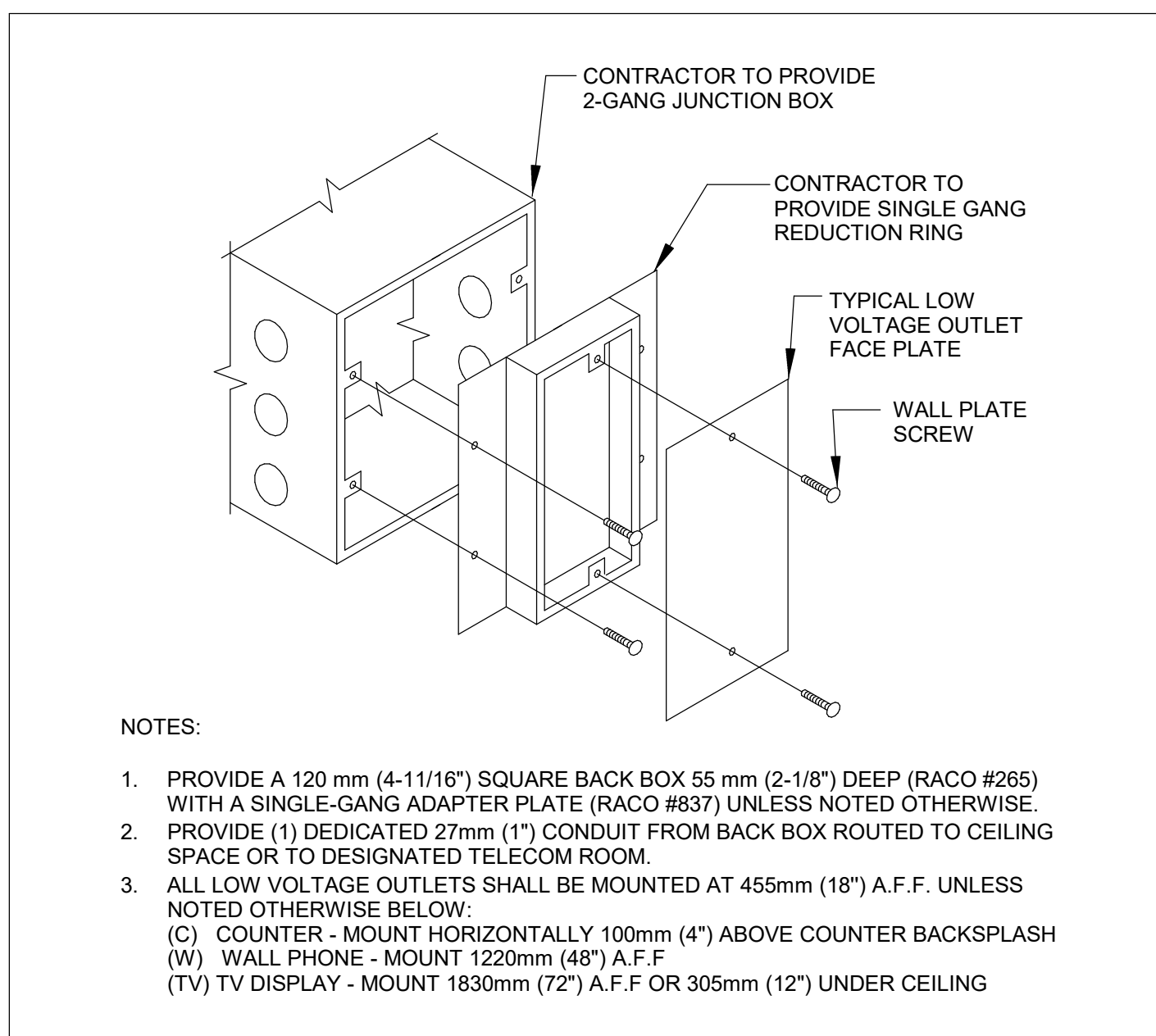
10 TYPICAL GROUNDING BUS DETAIL
E-701 SCALE: N.T.S.



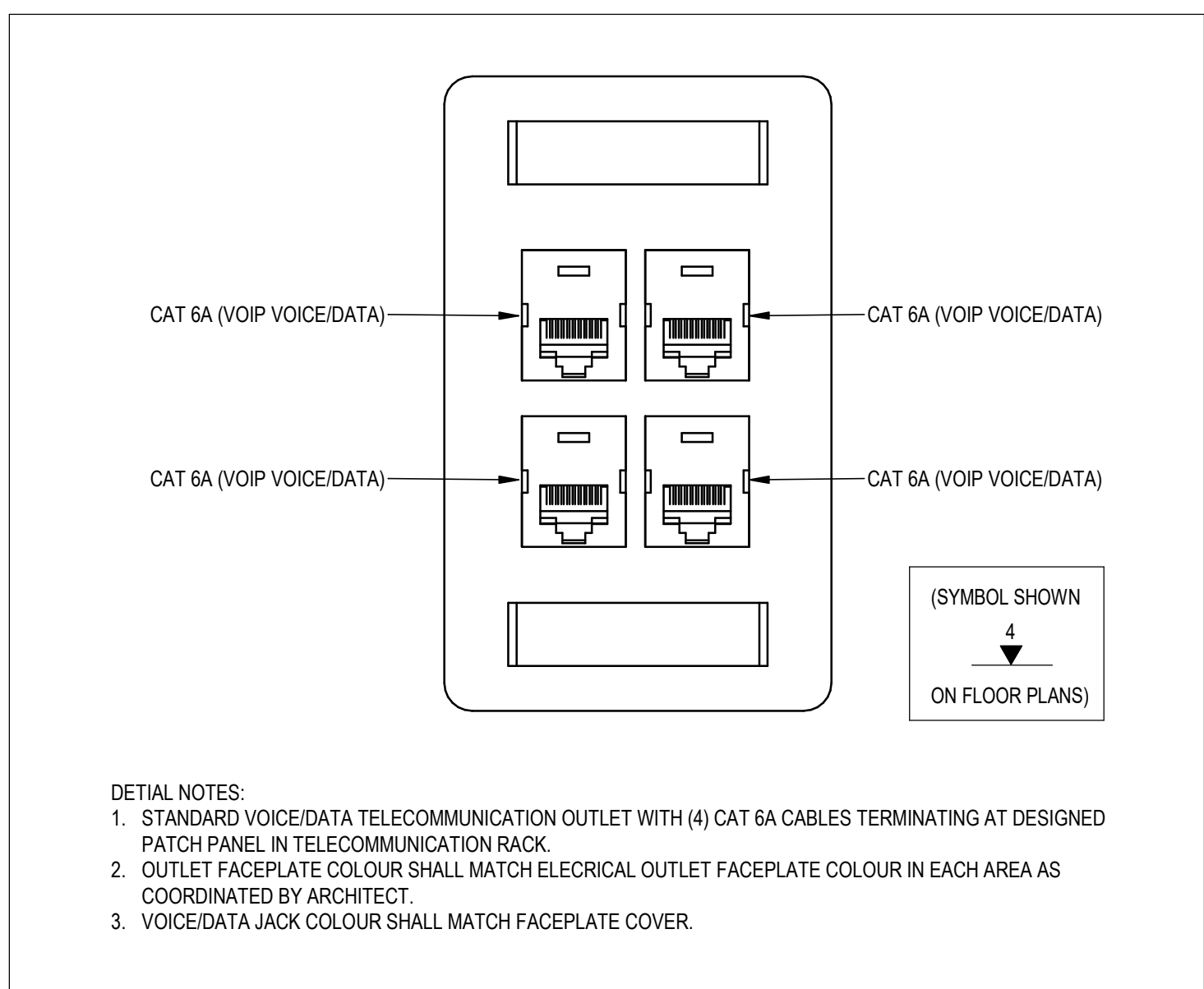
11 DETAIL OF TYPICAL FIRE WALL CONDUIT PENETRATION
E-701 SCALE: N.T.S.



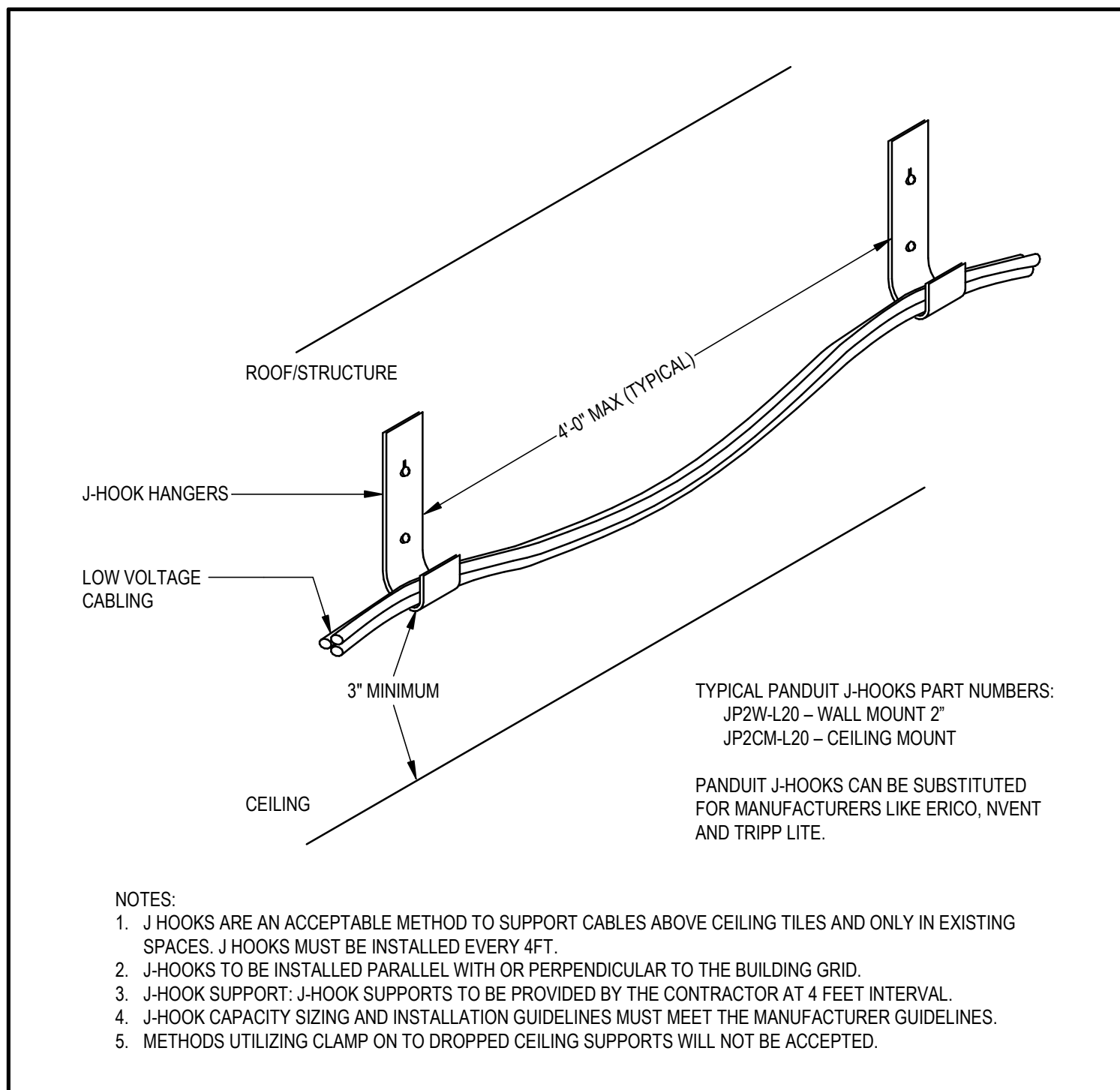
12 DENTAL X-RAY INTERCONNECTING WIRING
E-701 SCALE: N.T.S.



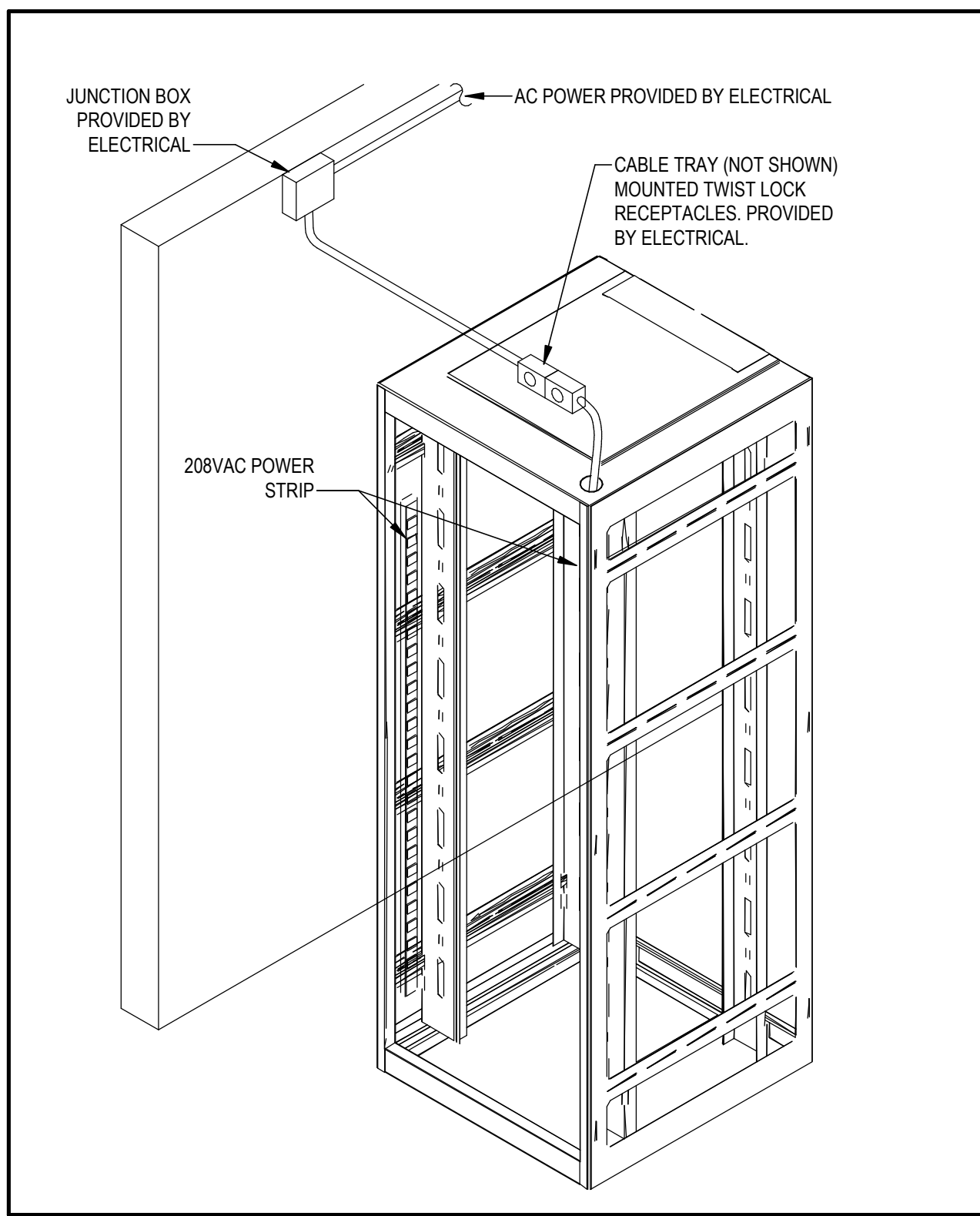
5 TYPICAL COMMUNICATION OUTLET BACK BOX DETAIL
E-701 SCALE: N.T.S.



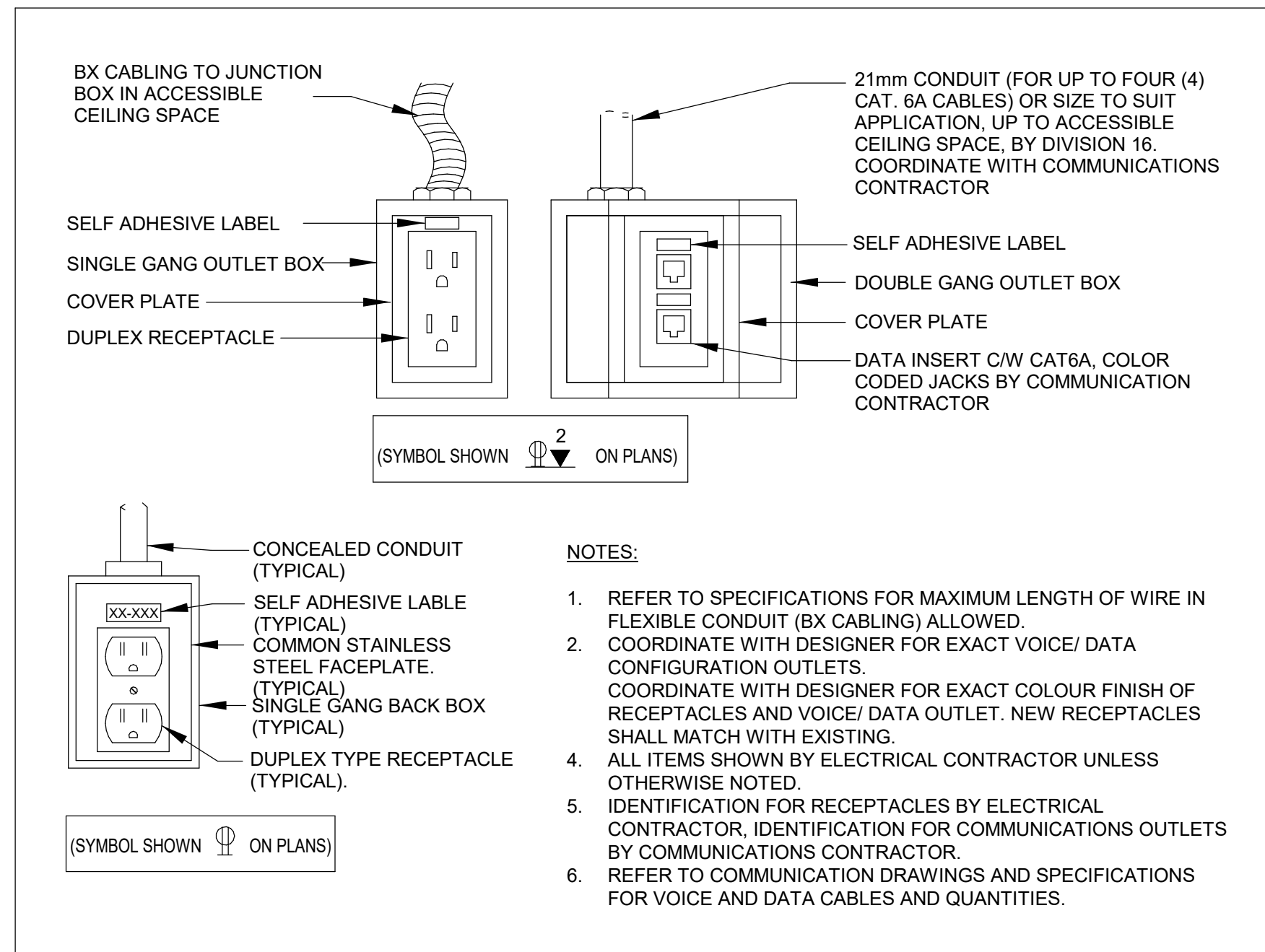
6 STANDARD DOUBLE VOICE-DATA OUTLET
E-701 SCALE: N.T.S.



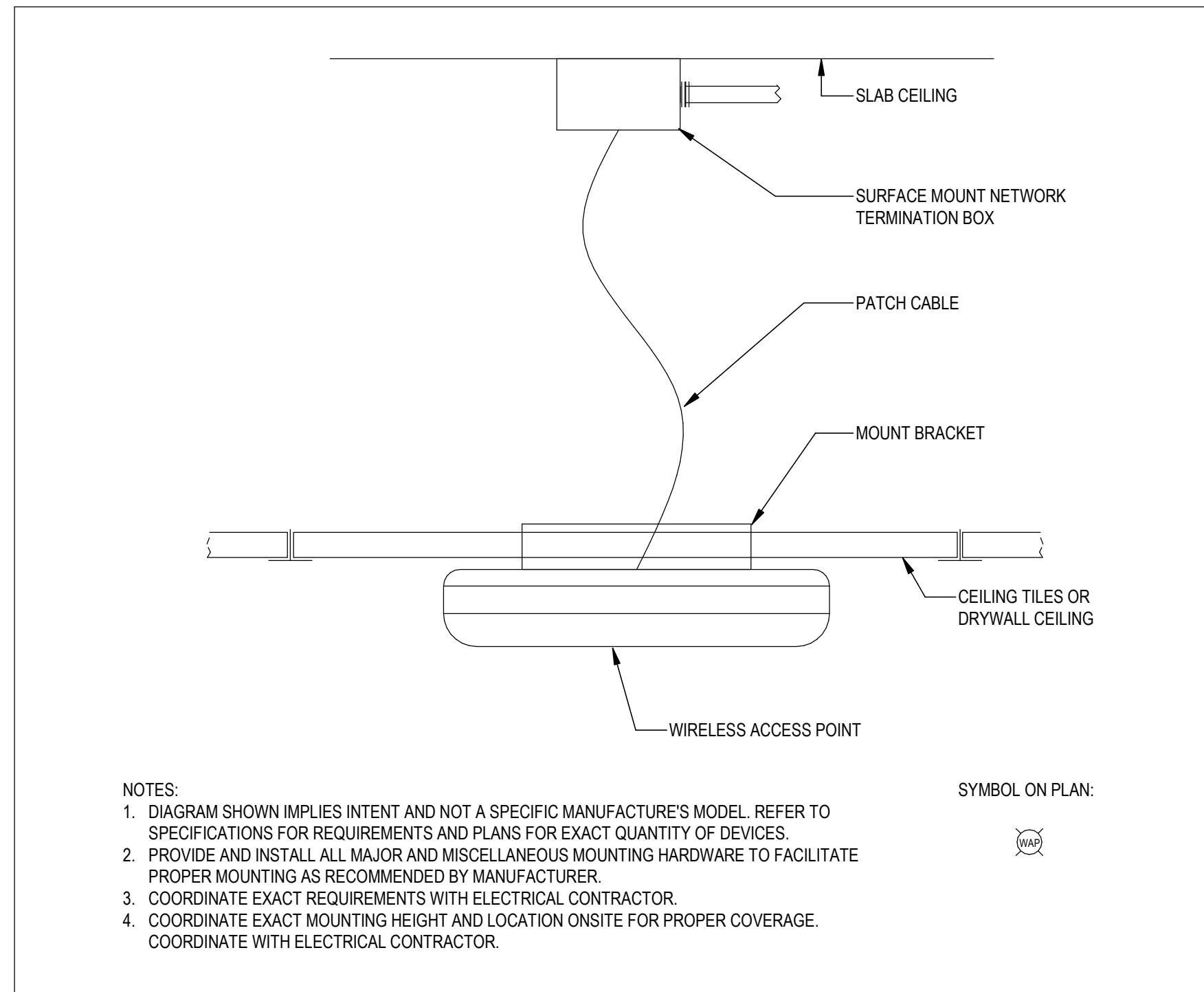
7 WALL MOUNTED SINGLE J-HOOK DETAIL
E-701 SCALE: N.T.S.



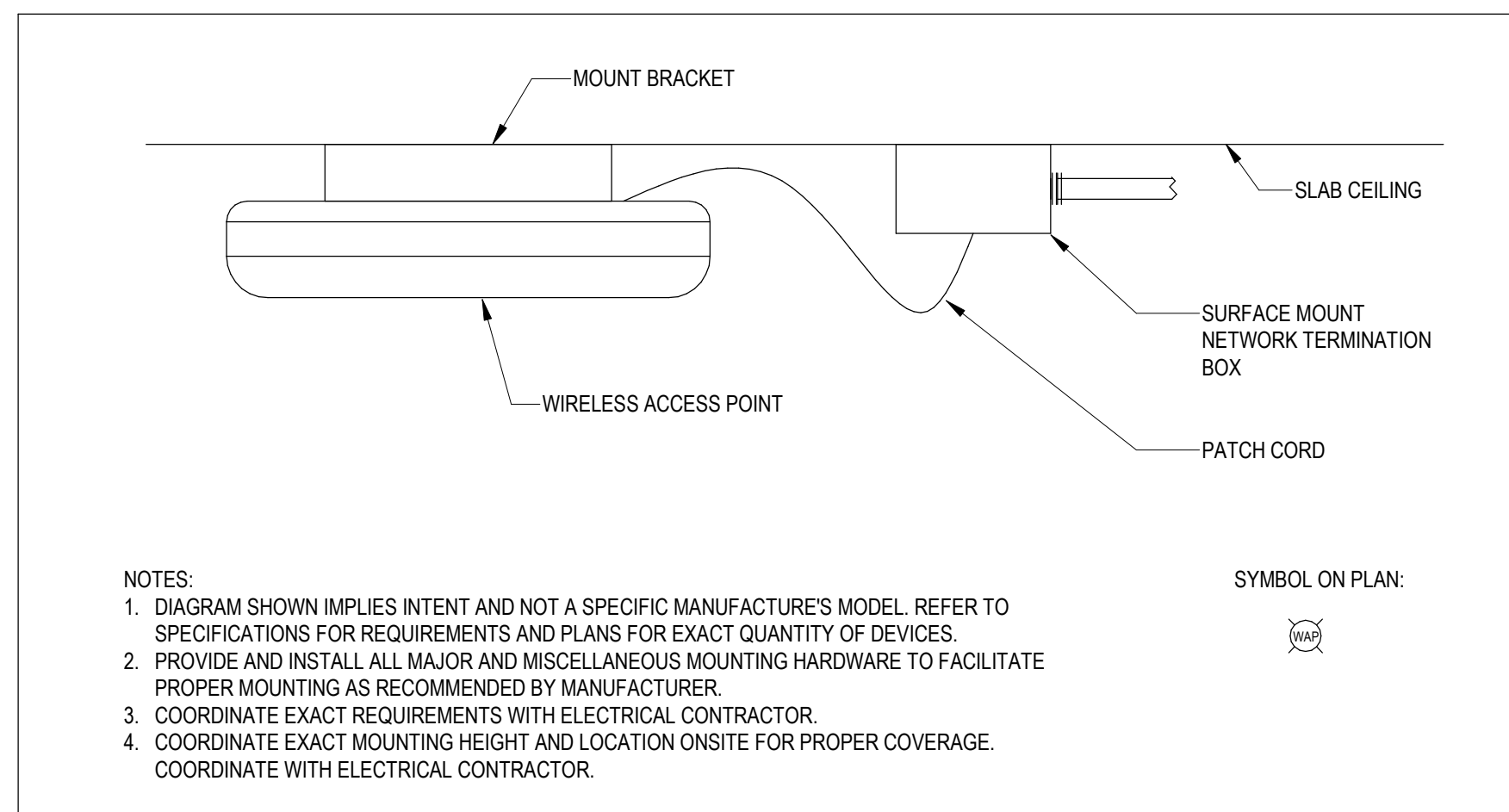
8 RACK POWER DETAIL
E-701 SCALE: N.T.S.



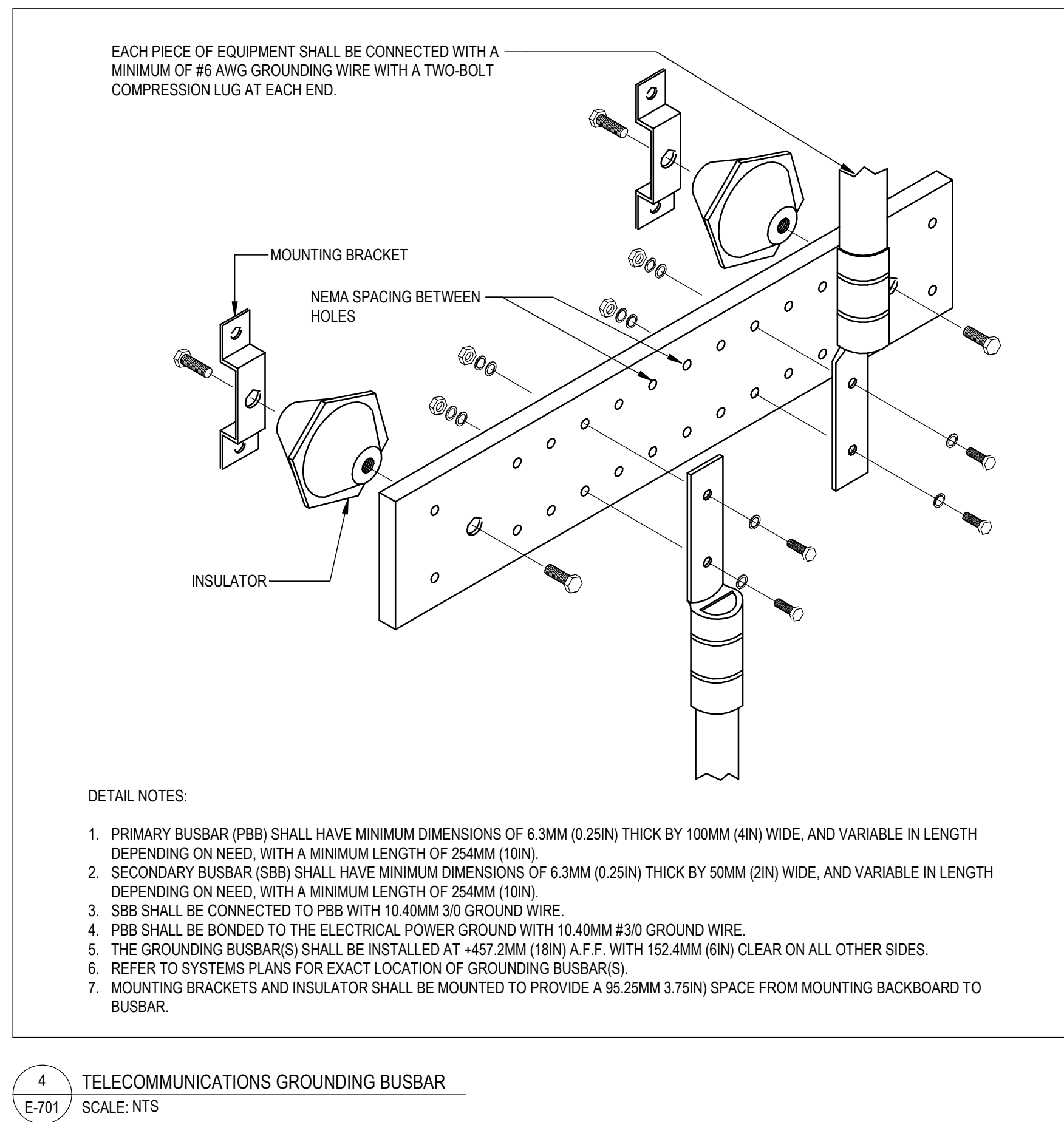
1 TYPICAL WALL MOUNTED POWER/DATA
E-701 SCALE: N.T.S.



2 WIRELESS ACCESS POINT SUSPENDED CEILING MOUNT DETAIL
E-701 SCALE: N.T.S.

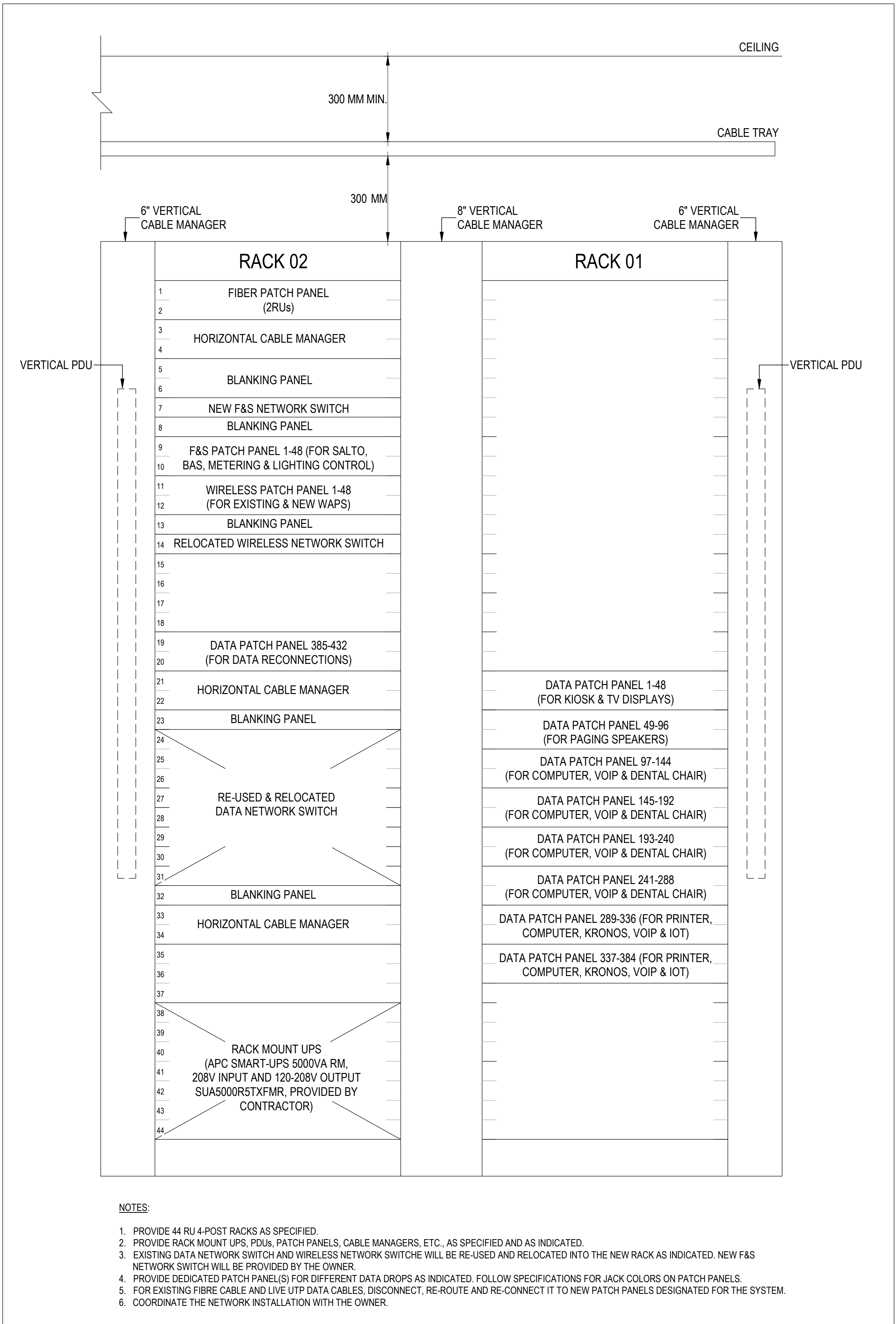


3 WIRELESS ACCESS POINT CEILING MOUNT DETAIL
E-701 SCALE: N.T.S.

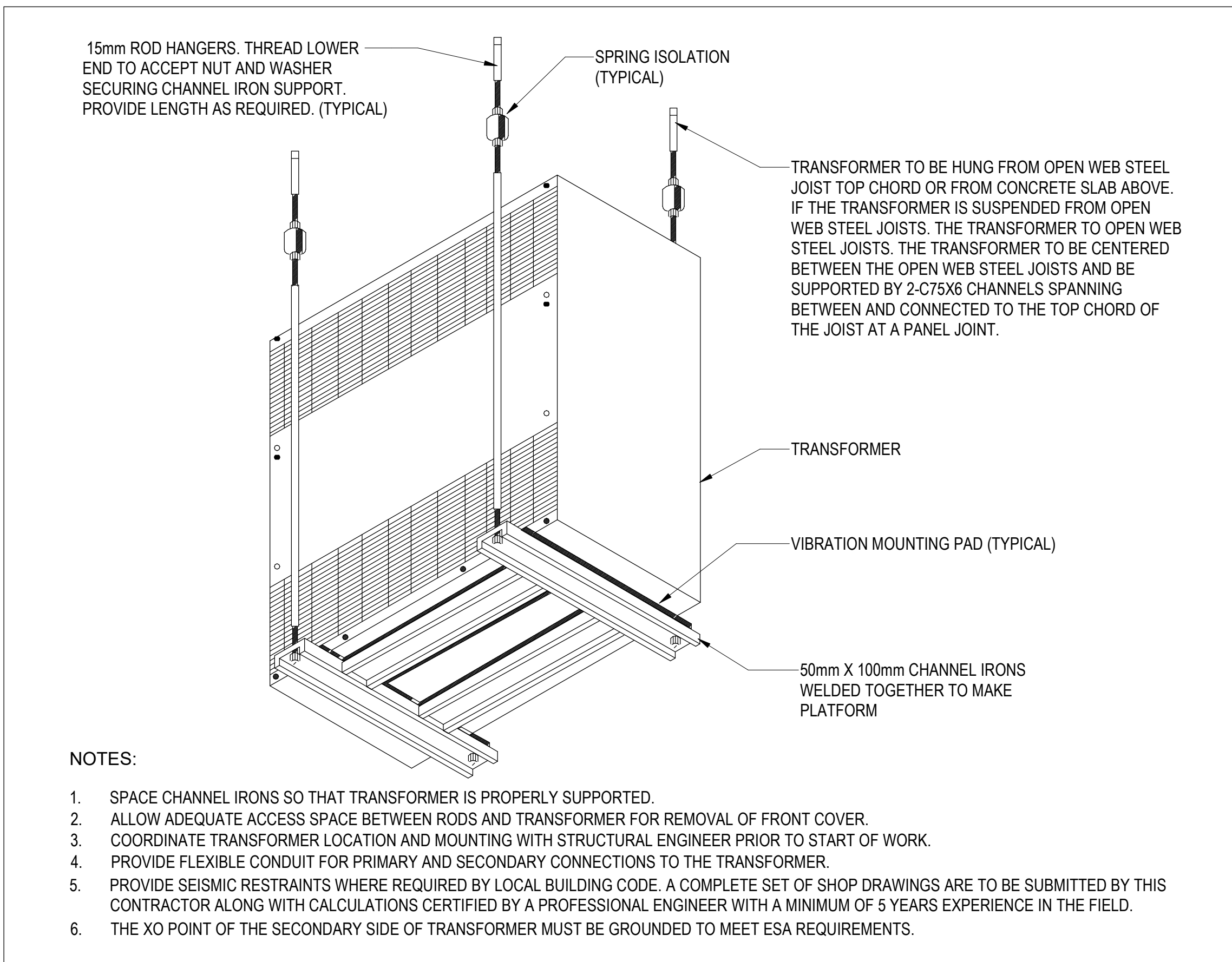


4 TELECOMMUNICATIONS GROUNDING BUSBAR
E-701 SCALE: N.T.S.

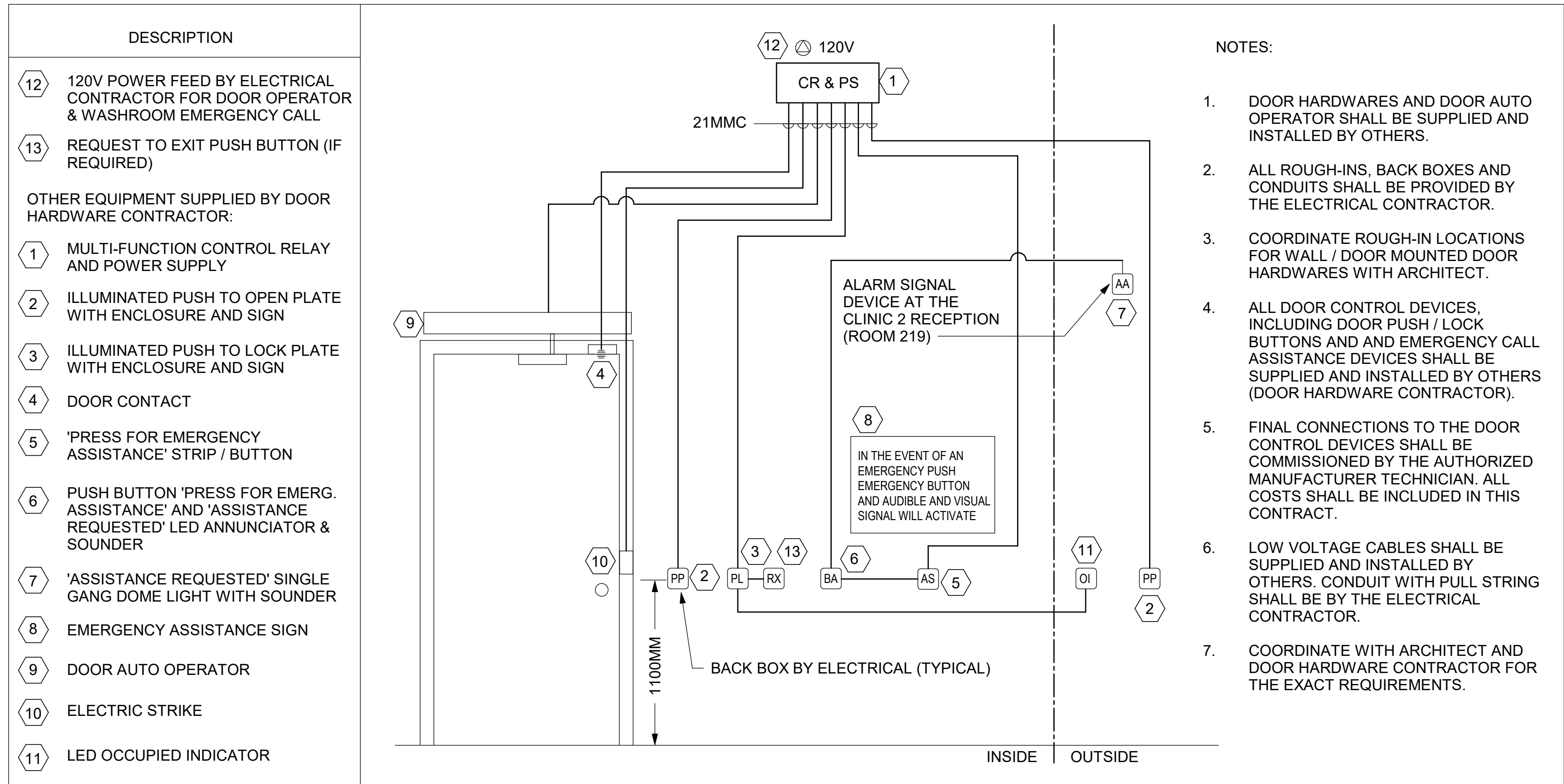
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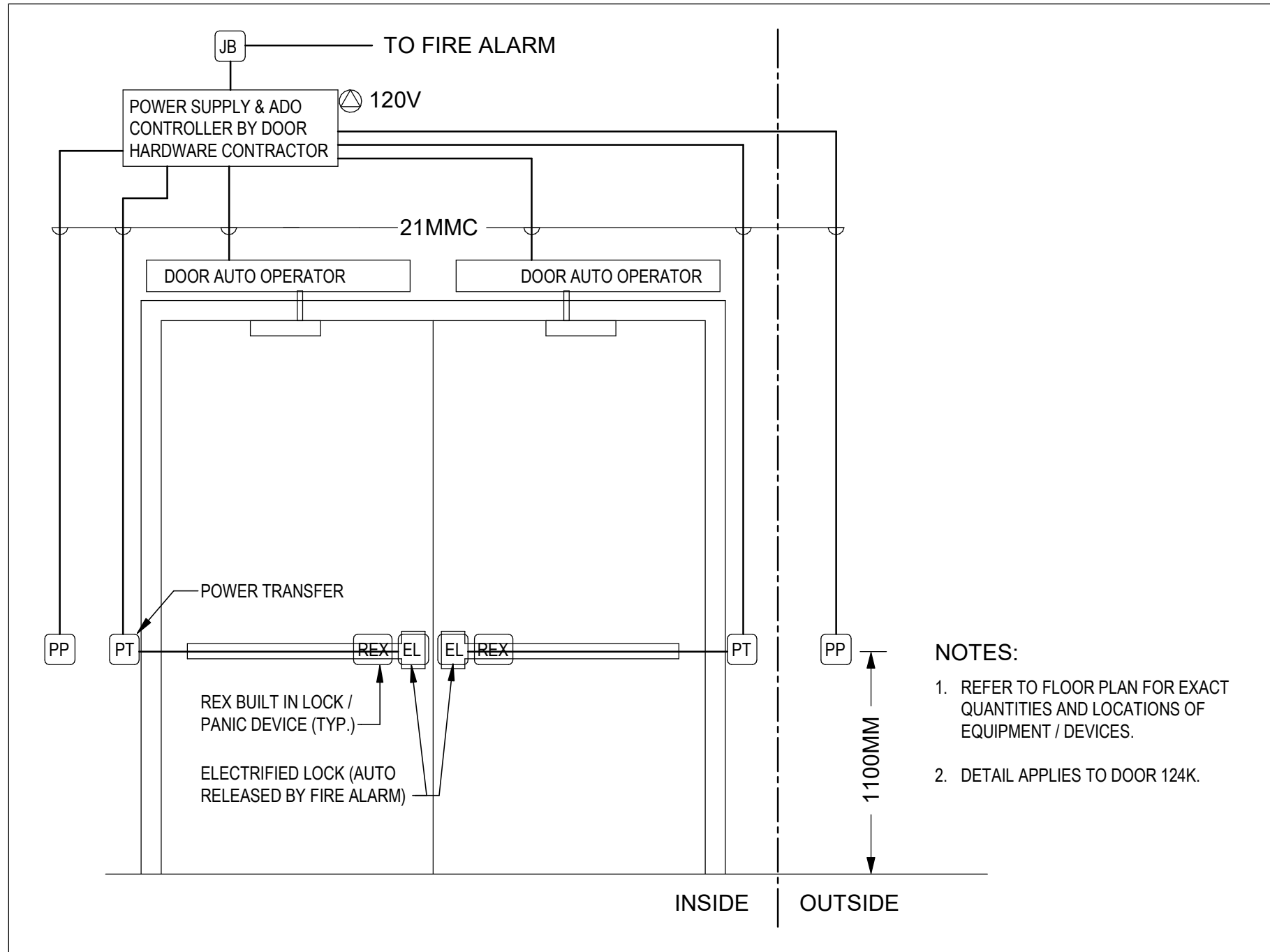
7 RACK ELEVATION
SCALE: NTS



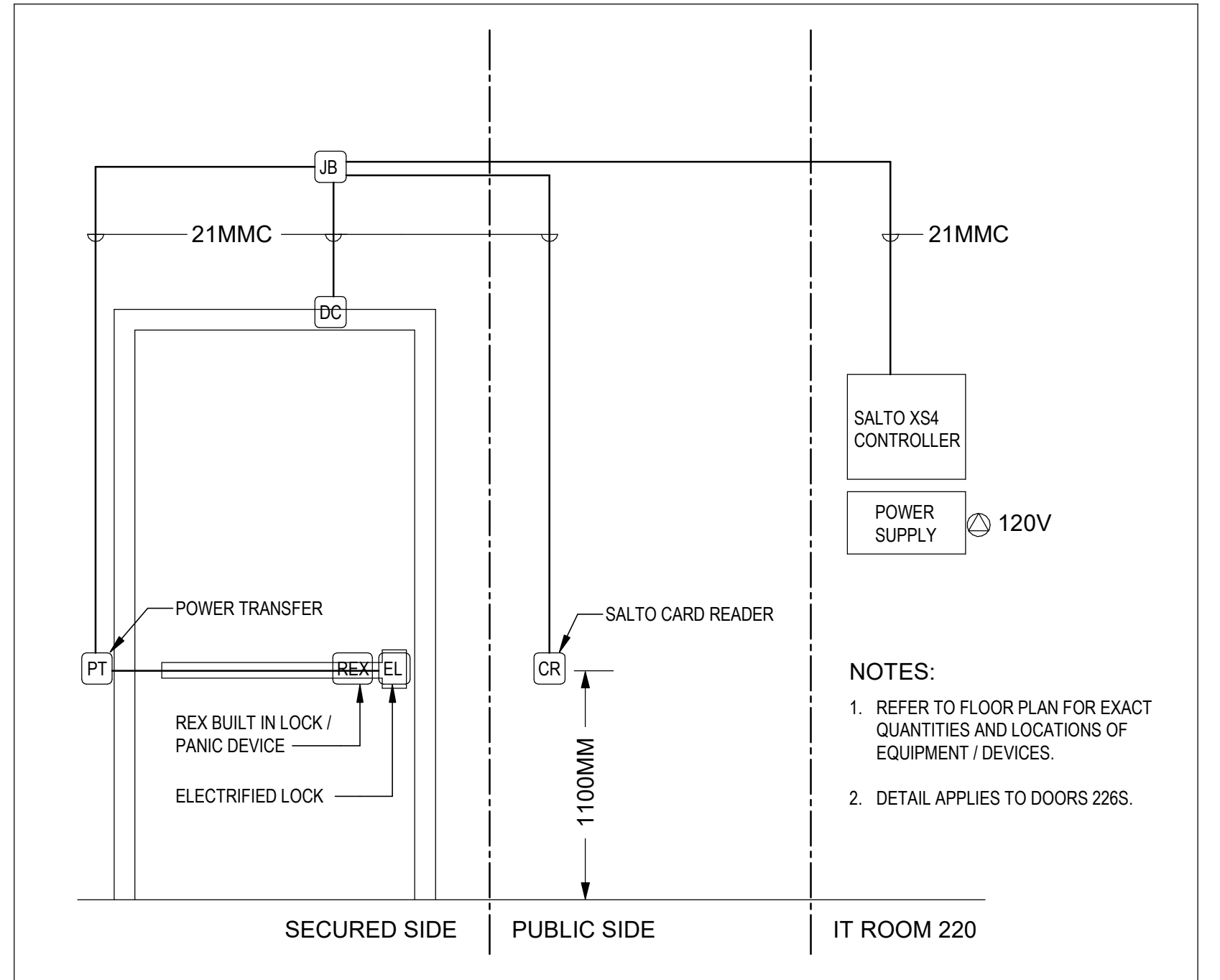
8 TYPICAL TRANSFORMER SUSPENSION DETAIL
SCALE: NTS



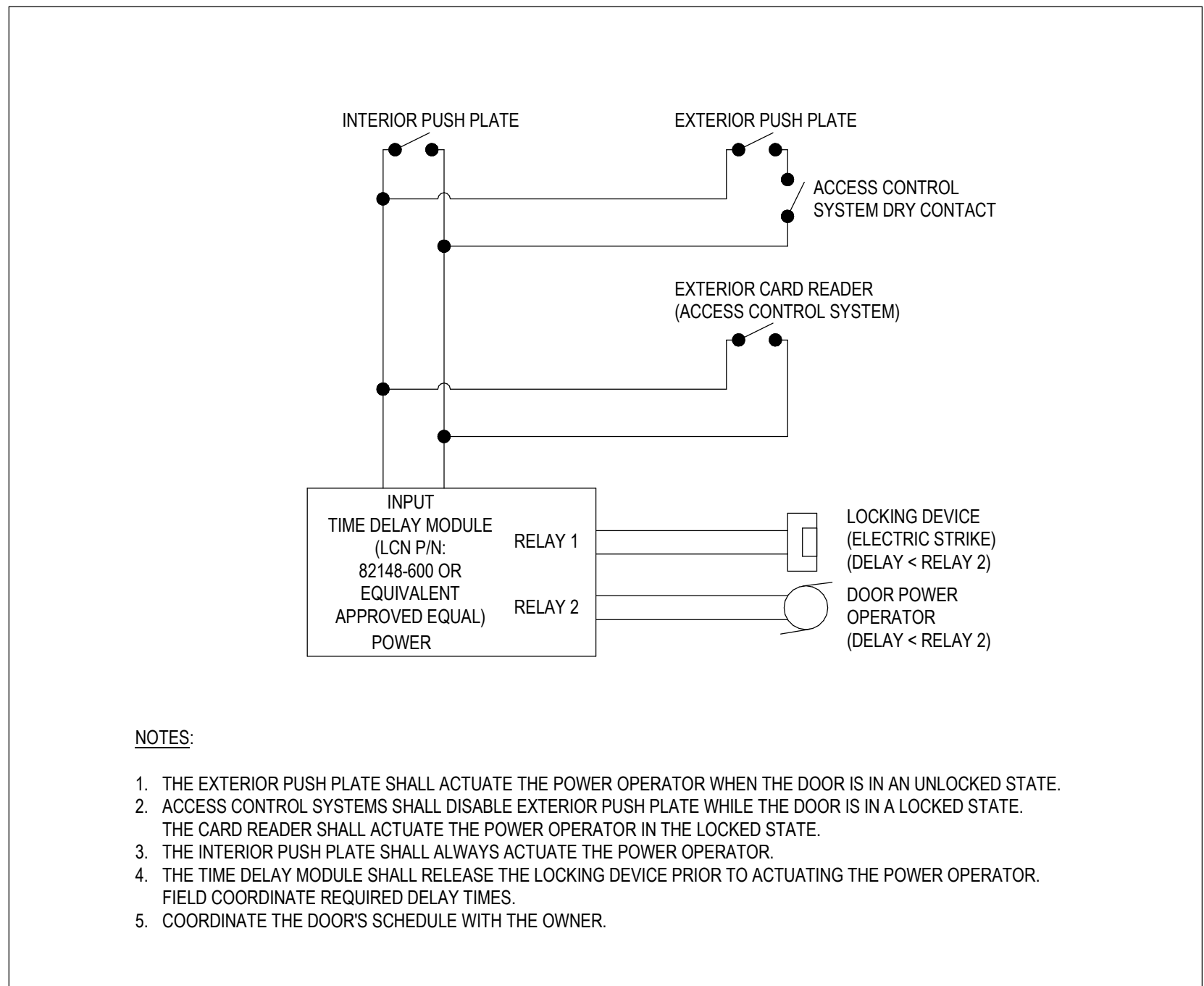
1 TYPICAL UNIVERSAL WASHROOM WIRING DIAGRAM
SCALE: N.T.S



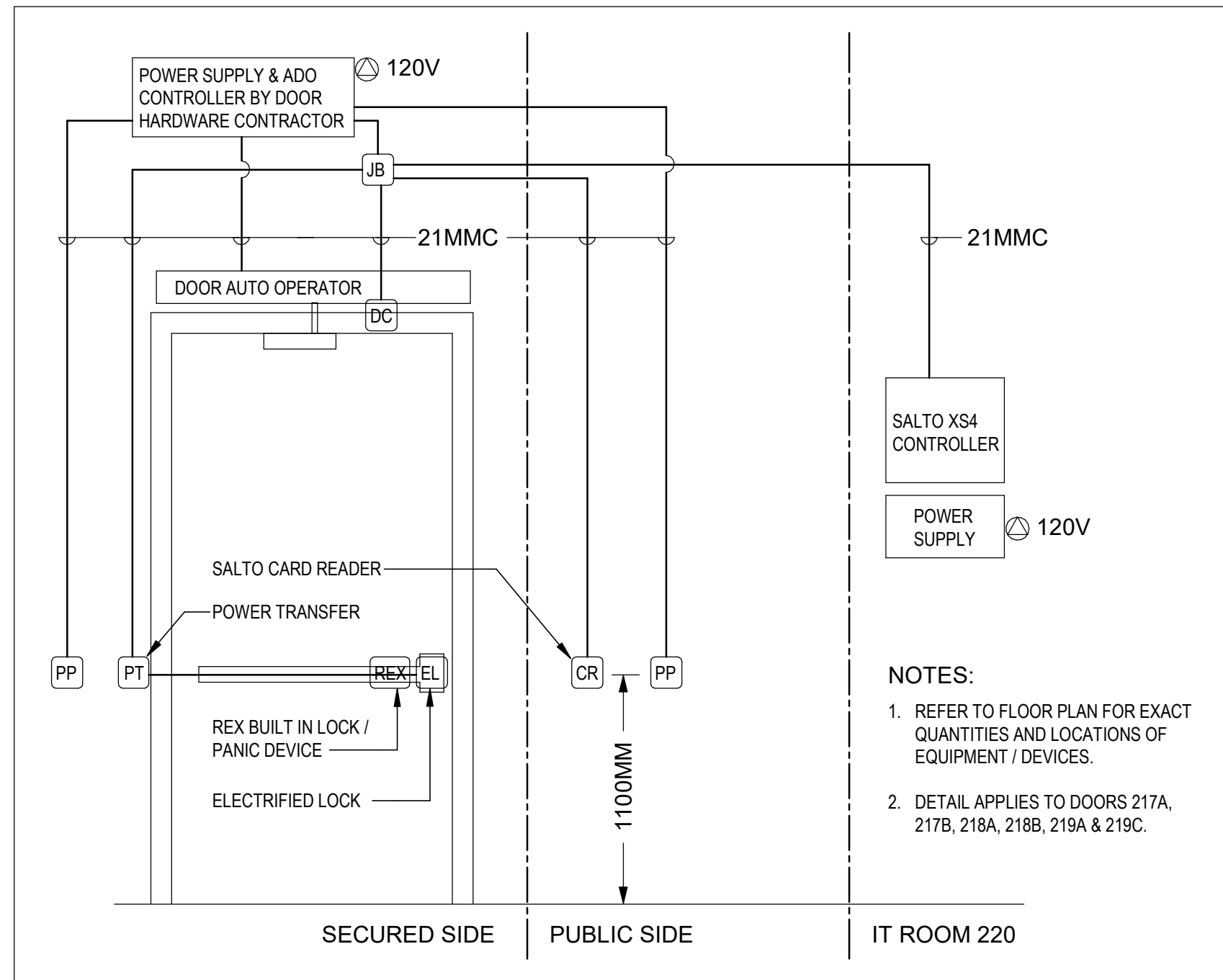
5 CORRIDOR DOOR CONTROL WIRING DIAGRAM
SCALE: 1:1



2 ACCESS CONTROL WIRING DIAGRAM 1
SCALE: 1:1



6 DOOR POWER OPERATOR INTERFACE DETAIL
SCALE: NTS



4 ACCESS CONTROL WIRING DIAGRAM 3
SCALE: 1:1