ABBREVIATIONS				
GENERAL				
BFG AFF	BELOW FINISHED GRADE ABOVE FINISHED FLOOR			
C/W	COMPLETE WITH			
DWG				
EC EM	EXISTING ITEM TO REMAIN & BE RECIRCUITED EMERGENCY			
ER	EXISTING ITEM TO BE RELOCATED			
EX BOM	EXISTING ITEM TO REMAIN BILL OF MATERIALS			
MM	MILLIMETERS			
MTD	MOUNTED			
NIC NL	NOT IN CONTRACT NIGHT LIGHT			
NTS	NOT TO SCALE			
IN	INCHES RELOCATED ITEM			
RL SBO	SUPPLIED BY OTHERS, INSTALLED BY DIV. 26			
SIM	SIMILAR			
STD TYP	STANDARD TYPICAL			
WP	WEATHERPROOF			
ELECTRICAL				
ATS AWG	AUTOMATIC TRANSFER SWITCH AMERICAN WIRE GAUGE			
AWG BND	AMERICAN WIRE GAUGE BOND			
BAS	BUILDING AUTOMATION SYSTEM			
BMS C	BUILDING MANAGEMENT SYSTEM CONDUIT			
СВ	CIRCUIT BREAKER			
EMT	ELECTRICAL METALLIC TUBING			
GFI GND	GROUND FAULT INTERRUPTOR GROUND			
LCP	LIGHTING CONTROL PANEL			
MCB	MAIN CIRCUIT BREAKER			
MCC MLO	MOTOR CONTROL CENTRE MAIN LUGS ONLY			
SWBD	SWITCHBOARD			
SG	SWITCHGEAR			
SUB UPS	SUBSTATION UNINTERRUPTIBLE POWER SUPPLY			
P	POLE			
PH	PHASE			
TL W	TWIST-LOCK WIRE			
MECHANICAL EC				
AC ACCU	AIR CONDITIONING AIR COOLED CONDENSING UNIT			
AHU	AIR HANDLING UNIT			
ATC	AUTOMATIC TEMPERATURE CONTROL			
BB BBH	BYPASS BOX BASEBOARD HEATER			
CP	CONDENSATE PUMP			
CRAC	COMPUTER ROOM AIR CONDITIONER			
CU EDH	CONDENSING UNIT ELECTRIC DUCT HEATER			
EF	EXHAUST FAN			
EUH	ELECTRIC UNIT HEATER			
EWH FCU	ELECTRIC WATER HEATER FAN COIL UNIT			
FPB	FAN POWERED BOX			
RTU	ROOFTOP UNIT			
TP TF	TRAP PRIMER TRANSFER FAN			
VAV	VARIABLE AIR VOLUME BOX			
MISCELLANEOU	<u></u>			
AV	S AUDIO VISUAL			
CM	COFFEE MACHINE			
CO	CLEANING OUTLET / HOUSEKEEPING			
COMM DW	COMMUNICATIONS DISHWASHER			
EFP	ELECTRIC FIREPLACE			
FA				
FR IM	REFRIGERATOR ICE MACHINE			
MW	MICROWAVE			
OV PR	ELECTRIC OVEN			
PR TO	PRINTER TOASTER OVEN			
SGN	DIGITAL SIGNAGE			
NOTES:				
	LISTS ARE FOR REFERENCE ONLY. NOT ALL ABBREVIATIONS SHOWN ON LIST ARE USED IN PROJECT.			

WIRING DEVI	CES		
€	DUPLEX RECEPTACLE (NEMA 5-15R), WALL-MOUNTED		
#	QUADRUPLEX RECEPTACLE (NEMA 5-15R), WALL-MOUNTED		
-	DUPLEX RECEPTACLE (NEMA 5-20R), WALL MOUNTED		
-	QUADRUPLEX RECEPTACLE (NEMA 5-20R), WALL MOUNTED		
Φ	SIMPLEX RECEPTACLE, WALL-MOUNTED (SPECIFICATIONS ON PLAN)		
HD	SPECIALTY RECEPTACLE (SPECIFICATIONS ON PLAN)		
8	DUPLEX RECEPTACLE (NEMA 5-20R, PROVIDED BY DIVISION 26), FURNITI		
₽	DUPLEX RECEPTACLE (NEMA 5-15R), CEILING-MOUNTED		
(QUADRUPLEX RECEPTACLE (NEMA 5-20R), CEILING-MOUNTED		
۲	DIRECT POWER CONNECTION		
R ወ	DUPLEX RECEPTACLE (NEMA 5-15R), FLOOR-MOUNTED 'R' DENOTES BOX TO BE RECESSED INTO FLOOR WHERE INDICATED 'C' DENOTES BOX TO BE PART OF CONNECTRAC RACEWAY SYSTEM		
R	QUADRUPLEX RECEPTACLE (NEMA 5-15R), FLOOR-MOUNTED'R'DENOTES BOX TO BE RECESSED INTO FLOOR WHERE INDICATED'C'DENOTES BOX TO BE PART OF CONNECTRAC RACEWAY SYSTEM		
R	COMBINATION FLOOR MONUMENT (POWER AND DATA) 'R' DENOTES BOX TO BE RECESSED INTO FLOOR WHERE INDICATED 'C' DENOTES BOX TO BE PART OF CONNECTRAC RACEWAY SYSTEM		
R	COMBINATION FLOOR MONUMENT (POWER AND DATA) 'R' DENOTES BOX TO BE RECESSED INTO FLOOR WHERE INDICATED 'C' DENOTES BOX TO BE PART OF CONNECTRAC RACEWAY SYSTEM		
R	COMBINATION FLOOR MONUMENT (POWER, DATA, AV) 'R' DENOTES BOX TO BE RECESSED INTO FLOOR WHERE INDICATED 'C' DENOTES BOX TO BE PART OF CONNECTRAC RACEWAY SYSTEM		
	COMBINATION FLOOR MONUMENT (POWER, DATA, AV) 'R' DENOTES BOX TO BE RECESSED INTO FLOOR WHERE INDICATED 'C' DENOTES BOX TO BE PART OF CONNECTRAC RACEWAY SYSTEM		
ХЦ	FURNITURE SYSTEM POWER AND COMMUNICATIONS FEED, FLOOR-MOU 'R' DENOTES BOX TO BE RECESSED INTO FLOOR WHERE INDICATED 'C' DENOTES BOX TO BE PART OF CONNECTRAC RACEWAY SYSTEM		
	FURNITURE SYSTEM POWER AND COMMUNICATIONS FEED, WALL-MOUN		
нĴ	JUNCTION BOX, WALL-MOUNTED		
J	CEILING MOUNTED JUNCTION BOX		
\boxtimes	LOW VOLTAGE TRANSFORMER		
×	REMOVAL WORK		
TELECOMMU	NICATIONS SYSTEM		
Ø	WIRELESS ACCESS POINT (WAP)		
\checkmark	DATA OUTLET, FLUSH-WALL		
	TELEPHONE OUTLET, FLUSH-WALL		
R	DATA OUTLET, FURNITURE-MOUNTED		
	DATA OUTLET, FLOOR-MOUNTED		
	DATA OUTLET, CEILING-MOUNTED		
\bigcirc	AV DATA OUTLET, CEILING-MOUNTED		
\checkmark	AV OUTLET, WALL-OR FURNITURE MOUNTED		
CAM	SECURITY CAMERA OUTLET		
	ACCESS CONTROL DEVICE		
	AV EQUIPMENT OUTLET, FLOOR-MOUNTED		
⊠ ∎	TABLETOP BOX		
	TABLE FOR DOA		

HAV

CEILING MOUNTED AV SPEAKERS

WALL MOUNTED AV SPEAKERS

			SYMBOLS			
	POWER				LIGHTING 8	LIGHTING CONTRC
	∠ A/B	FUSED DISCONNECT SWITCH 'A' - DENOTES FRAME RA'	TING		A	LIGHTING FIXTURE (REFER TO LIGHTING
	— A/B	'B' - DENOTES FUSE SIZE				'A' - DENOT M '1' - DENOT
		UN-FUSED DISCONNECT SWITCH 'A' - DENOTES FRAME RA'	TING			'EM' - DENOT
N1)		CIRCUIT BREAKER 'B' - DENOTES FRAME SIZ				EXIT LIGHT AND OUTL
N)		'A' - DENOTES TRIP SETTI	NG			SHADED AREA DENO
IRNITURE-MOUNTED	SPD	SURGE PROTECTION DEVICE			H O	PROVIDE DIRECTION SHADED AREA DENO
	FSD	COMBINATION DAMPER, FIRE / SMC	DKE DAMPER			
	GND	GROUND BUS BAR, WALL-MOUNTEI	2		⊢ ⊄	EXIT SIGN AND REMO
	· · · · · · · · · · · · · · · · · · ·				A (OC)	OCCUPANCY SENSOF 'A' - DENOT
		DOOR HARDWARE			S A WS'>	0-10V DIMMER SWITC
CATED STEM WHERE INDICATED		CARD READER				' 'A' - DENOT PHOTOSENSOR / DAY
CATED		DØOR (NE)			(PS) A	'A' - DENOT
STEM WHERE INDICATED					PC	PHOTOCELL
		MAQNETIC DOOR HOLDER			ТС	TIME CLOCK / TIMER
STEM WHERE INDICATED		AUTOMATIC DOOR OPENER				EMERGENCY REMOTI
CATED STEM WHERE INDICATED		DOORRELEASE HARDWARE (GENE	RIC, TO BE COORDINATED WITH SECUR	NTY DESIGN		EMERGENCY REMOTI
	JES /	ELECTRICSTRIKE				EMERGENCY REMOTI
CATED STEM WHERE INDICATED		/ризи-то-цоскивиттом///				EMERGENCY REMOT
		ELECTROMAGNETIC LOCK				
CATED STEM WHERE INDICATED		POWER TRANSFER WINGE				EMERGENCY REMOTI
R-MOUNTED CATED	BEX	REQUEST TO EXIT MOTION SENSIN	ĠDÉVIĆE////////////////////////////////////			EMERGENCY REMOTI
STEM WHERE INDICATED	DIECTV]	PUSH BUTTON CLOSED CIRCUIT SECURITY CAMER				PANIC LIGHT/OCCUPI
MOUNTED		CLOSED CIRCUIT SECURITY CAMER				EMERGENCY UNIT EC
		ACCERS, CONTROL PANEL			FIRE ALARN	M SYSTEM
		ACCESS CONTROL POWER SUPPLY			Ē	FIRE ALARM PULL STA
					EN	FIRE ALARM HORN
	PANELBOAR	DS & CABINETS			ED	FIRE ALARM BELL
		SURFACE TYPE PANELBOARD			ES	COMBINATION FIRE A
	<u></u>	FLUSH (RECESSED) TYPE PANELBC LIGHTING PANELBOARD	DARD			COMBINATION FIRE A
	LP	BRANCH CIRCUIT: 600/347V				FIRE ALARM STROBE
	DP	DISTRIBUTION PANELBOARD BRAN CIRCUIT: 600/347V OR 208/120V	CH		D D	FIRE ALARM STROBE
	RP	RECEPTACLE PANELBOARD BRANCH CIRCUIT: 208/120V			8 10 10 10 10 10 10 10 10 10 10 10 10 10	COMBINATION FIRE A
					L F	FIRE ALARM SPEAKEF
	CONDUIT & I	RACEWAY SYSTEMS				SMOKE DETECTOR (P
	JB	JUNCTION BOX				HEAT DETECTOR, RAT
	PB				Θ	HEAT DETECTOR, FIX
		EMBEDDED/BURIED CONDUIT	ING SPACE OF FLOOR BELOW AND/OR	IN WALLS		HEAT DETECTOR, CO
		CONNECTRAC RACEWAY			FFT	FIRE FIGHTER TELEPH
	<u>2</u>		2-CHANNEL RACEWAY, WITH OUTLETS	SHOWN	FACP	FIRE ALARM CONTRO
		LOW-PROFILE SURFACE MOUNTED	3-CHANNEL RACEWAY, WITH OUTLETS	SHOWN	FARA DGP	FIRE ALARM REMOTE
		0014444400				CONTROL MODULE OF
			TIONS CONDUIT FILL SCHEDU MAX. No. OF CAT. 6 OR 6A CABLES ALLC		MM	MONITOR MODULE IN
	CONDUIT SIZE		No. OF RACEWAY BENDS		EOL	END OF LINE RESISTC
	1	0	1 5	2		
	1 1 1/4	6 10	8	4 7	1	
	1 1/2	13	11	9]	
	2 2 1/2	22 38	19 32	15 27		
	3	57	49	40		
	3 1/2	75	64	52]	
			82	67		
		SED UPON 40% FILL @0.28 INCH CABL BE MINIMUM 1" INNER DIAMETER.	Е О.Л.		SHEET NUMBER	
					E-001	ELECTRICAL SYMBOLS &
					E-002 E-300	ELECTRICAL PROJECT G
					E-300 E-301	POWER & SYSTEMS 4TH
					E-401	LIGHTING 4TH FLOOR PL

Provide C4.352.399 Www.bitmeres.com When C4.152.352.399 When C4.152.352.3				
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	NOTES SWITCH DESIGNATION NOTES PANEL DESIGNATION & CIRCUIT NUMBER		New York City • Washingto	n, DC • Princeton • Durham
	IONAL ARROWS AS INDICATED			
	IONAL ARROWS AS INDICATED			
	EMOTE EMERGENCY HEADS COMBO UNIT, WALL-MOUNTED			
	NOTES LIGHTING CONTROL ZONE DAYLIGHT SENSOR C			
	IER SWITCH			
	MOTE TWO (2) HEAD. WALL-MOUNTED			
	MOTE TWO (2) HEADS, CEILING-MOUNTED			
	MOTE THREE (3) HEADS, CEILING-MOUNTED			
	STATION			
	Ν			
			AND REQUIREMENTS OF THE AU	
E ALARM STRUES KER, WALL MOUNTED KER, WALL MOUST KER, WALL WE AND KER, WALL WALL WALL WALL WALL WALL WALL WAL	AKER			
	RE ALARM SPEAKER/ STROBE		NOTIFY THE APPROPRIATE CONS	SULTANT OF DISCREPANCIES
INTER-OF-RUSE IF NOT TEMPERATURE GOMMANDER AT LOG TEMPERATURE				
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			BASIS FOR WHICH A BUILDING PE	
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	LEPHONE		MUST BE RETURNED UPON REQU	JEST. REPRODUCTION OF
SPAREL E OUTPUT RELAY EINPUT RELAY ISTORS IN WAYERBITY OF TORONO DESIGNATION ELECTRICAL DRAWING LIST SHEET TITLE IST A ABBREVIATIONS TO GREERAL NOTES IN ATHELON PLAN RPLN ELECTRICAL DRAWING LIST SHEET TITLE IST A ABBREVIATIONS TO GREERAL NOTES IN RPLN ELECTRICAL STATUS ELECTRICAL STATUS IN RPLN ELECTRICAL STATUS ELECTRICAL STATUS IN IN IN IN IN IN IN IN IN IN	TROL PANEL		PART OR IN WHOLE IS FORBIDDE	
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ILS & ABBREVIATIONS CT GENERAL NOTES AN 4TH FLOOR PLAN R PLAN ELECTRICAL SYMBOLS & ABBREVIATION Entered: JF Checked: NB Plot: 2024-06-06 EIEOOOf	ELECTRICAL DRAWING LIST			
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RPLAN ELECTRICAL SYMBOLS & ABBREVIATION Entered: JF Checked: NB Plot: 2024-06-06			North	
ELECTRICAL SYMBOLS & ABBREVIATION Entered: JF Checked: NB Plot: 2024-06-06		_		
Checked: NB Plot: 2024-06-06 こ こ				BREVIATION
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Plot: 2024-06-06				
				E-001

1.	ERAL	PO		
	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHTS, FINISHES, DIMENSIONS AND LOCATIONS OF DEVICES INCLUDING LIGHT FIXTURES, PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE PROMPTLY REFERRED TO ENGINEER FOR INSTRUCTIONS BEFORE ANY WORK COMMENCES.	1.		CONTRA
<u>2</u> . 3.	INSTALLATION OF ELECTRICAL EQUIPMENT SHALL BE COMPLETED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE SEPARATE PRICES FOR SCOPE OF WORK, AS SHOWN. WHERE A SEPARATE PRICE IS INDICATED, THE ENTIRE SCOPE OF WORK, INCLUDING			CONTRA THE STA CONTRA
	PROVIDING ALL MATERIAL, AS WELL AS THE MEANS AND METHODS TO EXECUTE THE WORK AS GOVERNED BY THE GENERAL AND SPECIFIC CONDITIONS OF THE CONTRACT, IS TO BE INCLUDED IN THE SEPARATE PRICE BID SCOPE, INCLUDING ANY NECESSARY DEMOLITION AND RE-WORK, AS APPLICABLE.			FURNISH
	DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT. THE EXISTING SYSTEMS SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF ALL NEW WORK.	2.		SECTION
	CONTRACTOR SHALL PROVIDE AND CONNECT ALL RACEWAYS AND WIRING FROM EQUIPMENT, DEVICES AND LIGHTING FIXTURES TO ITS SOURCE OF POWER AND CONTROLS.		2.1.	ALL BRA
	CONTRACTOR SHALL FIELD VERIFY DIMENSIONS OF FINISHED CONSTRUCTION PRIOR TO FABRICATION AND INSTALLATION OF FIXTURES AND EQUIPMENT. ELECTRICAL CONTRACTOR SHALL VERIFY SWITCHES, RECEPTACLES AND PLATE FINISHES WITH THE ARCHITECT BEFORE PERFORMING HIS INSTALLATION. ALL COVERPLATES SHALL BE AS SPECIFIED BY ARCHITECT.		2.3.	WHEN PI SERVICE ALL EXIS
).	EXISTING ELECTRICAL EQUIPMENT AND PANELBOARDS SHALL BE MODIFIED AS REQUIRED TO ACCOMMODATE THE WORK OF THIS CONTRACT. REPLACE EXISTING CIRCUIT BREAKERS IN PANELS WITH IDENTICAL NEW BREAKERS AS REQUIRED AND PROVIDE UPDATED TYPEWRITTEN DIRECTORIES. COORDINATE LOCATION OF OUTLETS AND SWITCHES WITH FURNITURE AND EQUIPMENT LAYOUTS AND WITH OWNER'S REPRESENTATIVE.		2.5.	PROVIDE VERIFY E ELECTRI
). .			2.7.	IDENTIF
	ALL ELECTRICAL WORK IN ADJOINING AREAS WHICH IS REQUIRED TO FUNCTION BUT IS AFFECTED BY THIS WORK SHALL BE RECONNECTED AND RESTORED TO ITS PRESENT FUNCTION AS PART OF THE ELECTRICAL SYSTEM OF THE BUILDING(S). ALL BRANCH CIRCUIT WIRING SHALL BE RUN CONCEALED IN WALLS AND/OR ABOVE HUNG CEILING UNLESS OTHERWISE NOTED.		2.8.	ELECTRI ADDITIO THE CON
	WIRING IN AIR PLENUM HUNG CEILINGS INSTALLED WITHOUT CONDUIT OR EMT SHALL BE TEFLON JACKETED AND FT-6 RATED.		2.9.	CONTRA
j.	NO LOW VOLTAGE WIRING SHALL BE PERMITTED IN THE SAME RACEWAY AS POWER WIRING. CONTRACTOR TO DE-RATE CONDUCTORS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE WHEN INSTALLING MORE THAN THREE (3) CIRCUITS IN A			BEAM CL
-	¾"C HOMERUN. FOR WIRING IN EXISTING PARTITIONS WHERE EMT INSTALLATION IS IMPRACTICAL, FLEXIBLE GALVANIZED STEEL CONDUIT SHALL BE ACCEPTED. COORDINATE EXACT SIZE WITH SPECIFIED CABLING REQUIREMENTS. MINIMUM SIZE USED SHALL BE ¾".			DEMOLIT CARRY F REQUIRE PART OF
	PROVIDE NYLON PULL CORDS IN ALL EMPTY RACEWAYS.		2.12.	ALL WOF
	ALL CONDUITS FOR BRANCH CIRCUITING AND/OR COMMUNICATIONS CABLING, INCLUDING THOSE RUN IN CEILING OF FLOOR BELOW SHALL BE IDENTIFIED AT EVERY 50 FEET OF LENGTH AND AT EACH OUTLET AND PULL BOX WITH PANEL AND CIRCUIT NUMBER OR SYSTEM NAME. CONTRACTOR SHALL PROVIDE AN EMPTY CONDUIT SYSTEM WITH NYLON PULL CORDS AND OUTLET BOXES FOR INSTALLATION OF LOW TENSION WIRING			CONSTR EXISTING WEEK AD
	SYSTEM. VERIFY EXACT REQUIREMENTS WITH SYSTEM VENDOR. THE MINIMUM RATING OF DISCONNECT SWITCHES SHALL BE EQUAL TO OR GREATER THAN THE RATING OF THE PROTECTION DEVICE ON THE SUPPLY SIDE		2.14.	INCREAS
	OF THE DISCONNECT SWITCHES SHALL BE EQUAL TO OR GREATER THAN THE RATING OF THE PROTECTION DEVICE ON THE SUPPLY SIDE OF THE DISCONNECT SWITCH. MINIMUM DISCONNECT SWITCH SIZE SHALL BE 30 AMPERES. CONTRACTOR IS RESPONSIBLE TO EVALUATE, FURNISH AND INSTALL SEISMIC PROTECTION FOR ALL TECHNICAL COMPONENTS INSTALLED UNDER HIS RESPONSIBILITY.		2.15.	LOADS, I CONTRA PANELBO
			2.16.	NAMES. UNDERF AND WIT
	RDINATION	3.	TECH	BASE BU
			3.1.	TERMINA
٦	THE CONTRACTOR SHALL VISIT THE PREMISES AND COMPARE SAME WITH A FULL SET OF BID DOCUMENTS BEFORE PROCEEDING WITH ANY WORK IN		3.2.	LABEL A
(\	THE CONTRACTOR SHALL VISIT THE PREMISES AND COMPARE SAME WITH A FULL SET OF BID DOCUMENTS BEFORE PROCEEDING WITH ANY WORK IN DCCUPIED AREAS, THE CONTRACTOR SHALL APPLY TO LANDLORD FOR PERMISSIONS TO ENTER SUCH AREAS. THE CONTRACTOR IS OBLIGATED TO PERFORM WORK ONLY AT TIMES DESIGNATED BY THE LANDLORD AND/OR TENANT. THERE WILL BE NO ADDITIONAL COMPENSATION FOR THE WORK PERFORMED PREMIUM TIME WITHOUT PRIOR WRITTEN APPROVAL.		3.3.	TELECO
(\ F (DCCUPIED AREAS, THE CONTRACTOR SHALL APPLY TO LANDLORD FOR PERMISSIONS TO ENTER SUCH AREAS. THE CONTRACTOR IS OBLIGATED TO PERFORM WORK ONLY AT TIMES DESIGNATED BY THE LANDLORD AND/OR TENANT. THERE WILL BE NO ADDITIONAL COMPENSATION FOR THE WORK PERFORMED PREMIUM TIME WITHOUT PRIOR WRITTEN APPROVAL. CONTRACTOR SHALL COORDINATE THE WORK WITH ALL TRADES AND EXISTING CONDITIONS.		3.3. 3.4. 3.5.	TELECO ONLY HO
(\ F . (DCCUPIED AREAS, THE CONTRACTOR SHALL APPLY TO LANDLORD FOR PERMISSIONS TO ENTER SUCH AREAS. THE CONTRACTOR IS OBLIGATED TO PERFORM WORK ONLY AT TIMES DESIGNATED BY THE LANDLORD AND/OR TENANT. THERE WILL BE NO ADDITIONAL COMPENSATION FOR THE WORK PERFORMED PREMIUM TIME WITHOUT PRIOR WRITTEN APPROVAL.		 3.3. 3.4. 3.5. 3.6. 	TELECOI ONLY HC ALL CAB INTERVA ALL LABE
(\ F . (DCCUPIED AREAS, THE CONTRACTOR SHALL APPLY TO LANDLORD FOR PERMISSIONS TO ENTER SUCH AREAS. THE CONTRACTOR IS OBLIGATED TO PERFORM WORK ONLY AT TIMES DESIGNATED BY THE LANDLORD AND/OR TENANT. THERE WILL BE NO ADDITIONAL COMPENSATION FOR THE WORK PERFORMED PREMIUM TIME WITHOUT PRIOR WRITTEN APPROVAL. CONTRACTOR SHALL COORDINATE THE WORK WITH ALL TRADES AND EXISTING CONDITIONS.		 3.3. 3.4. 3.5. 3.6. 3.7. 	TELECOI ONLY HC ALL CAB INTERVA ALL LABE ONLY PL
(\ F . (DCCUPIED AREAS, THE CONTRACTOR SHALL APPLY TO LANDLORD FOR PERMISSIONS TO ENTER SUCH AREAS. THE CONTRACTOR IS OBLIGATED TO PERFORM WORK ONLY AT TIMES DESIGNATED BY THE LANDLORD AND/OR TENANT. THERE WILL BE NO ADDITIONAL COMPENSATION FOR THE WORK PERFORMED PREMIUM TIME WITHOUT PRIOR WRITTEN APPROVAL. CONTRACTOR SHALL COORDINATE THE WORK WITH ALL TRADES AND EXISTING CONDITIONS.	_	 3.3. 3.4. 3.5. 3.6. 3.7. 3.8. 3.9. 	TELECOI ONLY HO ALL CAB INTERVA ALL LABI ONLY PL COPPER MAINTAI
() F . (. (OCCUPIED AREAS, THE CONTRACTOR SHALL APPLY TO LANDLORD FOR PERMISSIONS TO ENTER SUCH AREAS. THE CONTRACTOR IS OBLIGATED TO PERFORM WORK ONLY AT TIMES DESIGNATED BY THE LANDLORD AND/OR TENANT. THERE WILL BE NO ADDITIONAL COMPENSATION FOR THE WORK PERFORMED PREMIUM TIME WITHOUT PRIOR WRITTEN APPROVAL. CONTRACTOR SHALL COORDINATE THE WORK WITH ALL TRADES AND EXISTING CONDITIONS. CONTRACTOR SHALL COORDINATE AND REVIEW SLAB PENETRATIONS WITH BUILDING STRUCTURAL ENGINEERS. OLITION OLITION NOTES AND GRAPHIC REPRESENTATIONS SHALL NOT LIMIT THE EXTENT OF DEMOLITION REQUIRED. CONTRACTOR SHALL VISIT THE SITE, CAREFULLY EXAMINE EXISTING CONDITIONS AND SHALL PERFORM ALL DEMOLITION REQUIRED TO ACHIEVE THE FINAL DESIGN INTENT AS REQUIRED BY THE CONTRACT	-	 3.3. 3.4. 3.5. 3.6. 3.7. 3.8. 3.9. 3.10. 3.11. 	TELECOI ONLY HO ALL CAB INTERVA ALL LABI ONLY PL COPPER MAINTAII COLOUR ALL OUT
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EM	Decupied Areas, the contractor shall apply to landlord for permissions to enter such areas. The contractor is obligated to perform work only at times designated by the landlord and/or tenant. There will be no additional compensation for the work performed "Premium time without prior written approval." Contractor shall coordinate the work with all trades and existing conditions. Contractor shall coordinate and review slab penetrations with building structural engineers. OLITION NOTES AND GRAPHIC REPRESENTATIONS SHALL NOT LIMIT THE EXTENT OF DEMOLITION REQUIRED. CONTRACTOR SHAll visit the site, carefully examine existing conditions and shall perform all demolition required to achieve the final design intent as required by the contract grant the strent of all demolition work shall be coordinated with the architect. Equipment indicated to be removed shall be taken from the site and disposed of in accordance with applicable laws and environ strent or described and the solutions.		 3.3. 3.4. 3.5. 3.6. 3.7. 3.8. 3.9. 3.10. 3.11. 3.12. 3.13. 3.14. 3.15. 	TELECOI ONLY HC ALL CAB INTERVA ALL LABE ONLY PL COPPER MAINTAII COLOUR ALL OUT SPLICING WHERE I STAGGE AT THE C
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ELECTRICAL PROJECT NOTES

TEMS

ACTOR SHALL FURNISH ALL REQUIRED CONDUITS, WIRING, AND JUNCTION BOXES TO ENERGIZE EQUIPMENT INDICATED.

ACTOR SHALL COORDINATE ON SITE AND WITH THE ARCHITECT FOR THE EXACT LOCATION OF ALL FLOOR AND WALL MOUNTED DEVICES PRIOR TO ART OF ANY SUCH WORK.

ACTOR SHALL MAINTAIN CONTINUITY TO ALL EXISTING CIRCUITRY TO REMAIN WHICH ARE AFFECTED BY THE SCOPE OF WORK. CONTRACTOR TO HAND INSTALL ALL NECESSARY WIRES, CONDUIT AND JUNCTION BOXES REQUIRED TO KEEP CONTINUITY. FO MECHANICAL AND PLUMBING DRAWINGS FOR EQUIPMENT TO BE SUPPLIED BY OTHER TRADES AND INSTALLED AND/OR WIRED UNDER THIS

NCH WIRING SHALL BE CONCEALED IN WALLS AND ABOVE HUNG CEILING.

ULLING BACK WIRING AND/OR DEMOLISHING WALLS FOR INSTALLED EQUIPMENT, COORDINATE WITH EXISTING MECHANICAL EQUIPMENT AND ES AND TEMPORARILY RELOCATE EQUIPMENT AS NECESSARY.

STING ELECTRICAL EQUIPMENT AND DEVICES TO REMAIN IN ALL AREAS INDICATED AS OUTSIDE OF THE PROJECT.

E SEPARATE NEUTRAL WIRE FOR EACH DEDICATED CIRCUIT.

EXACT POWER REQUIREMENTS OF MECHANICAL EQUIPMENT BEFORE ROUGHING, REFER TO MECHANICAL SHOP DRAWINGS FOR MANUFACTURERS ICAL DATA AND INSTALLATION REQUIREMENTS. ADVISE CONSULTANT OF ANY DISCREPANCIES.

Y AND LABEL ALL NEW OR RELOCATED POWER RECEPTACLES.

WIRING DEVICES ARE INDICATED TO BE REMOVED AND RELOCATED, PROVIDE NEW WIRING DEVICE BUT RELOCATE EXISTING CIRCUIT AND JUNCTION REQUIRED.

ICAL CONTRACTOR RESPONSIBLE FOR PROVIDING NEW CONDUIT AND INFRASTRUCTURE AS REQUIRED FOR COMMUNICATIONS SYSTEMS IN IN TO WORK SHOWN ON THIS DRAWING. ELECTRICAL CONTRACTOR IS TO REVIEW. COORDINATE AND CARRY THE SCOPE OF WORK AS SHOWN ON MMUNICATIONS DRAWINGS.

ACTOR MUST PRACTICE PROPER LOCK OUT AND TAG OUT PROCEDURES.

LAMPS ARE NOT PERMITTED TO HANG OR SUPPORT ELECTRICAL SERVICES.

S SHOWN ARE FOR GROUPING PURPOSES ONLY. CONTRACTOR TO VERIFY EXACT CIRCUIT NUMBERS IN FIELD AND REUSE CIRCUITS FROM THE TION PHASE TO FEED NEW/RELOCATED EQUIPMENT. CONFIRM AVAILABILITY OF CIRCUITS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR TO FIVE (5) SPARE 15A BREAKERS AS PART OF BID. EXTEND WIRING AND CONDUIT TO SUIT FOR EXISTING-TO-REMAIN AND RELOCATED LOADS AS ED. A MAXIMUM OF FOUR (4) DUPLEX RECEPTACLES ALLOWED PER PANEL CIRCUIT. UPDATE ALL PANEL SCHEDULES UTILIZED FOR CIRCUITING AS THIS PROJECT.

RK REQUIRING ELECTRICAL SHUTDOWN WHICH WILL AFFECT OTHER FLOORS OF THE BUILDING OR EVEN AFFECT THE NORMAL CONTINUATION OF RUCTION WORK ON THESE FLOORS, SHALL BE DONE ON OVERTIME HOURS, AND SHALL NOT DISTURB CONTINUITY OF ELECTRICAL SERVICE TO G TENANTS ON THE AFFECTED FLOORS. COORDINATE SHUTDOWN REQUIREMENTS WITH BUILDING MANAGEMENT PROVIDING A MINIMUM OF ONE DVANCE NOTICE.

MULTIPLE SWITCHES AND RECEPTACLES ARE INDICATED AT THE SAME LOCATION, THEY SHALL BE MOUNTED BEHIND A COMMON FACEPLATE. SE THE SIZE OF BRANCH CIRCUIT CONDUCTORS AND HOME RUNS AS REQUIRED SO THAT THE TOTAL VOLTAGE DROP, FROM PANELBOARDS TO

DOES NOT EXCEED 3% UNDER LOAD.

ACTOR SHALL VERIFY THE EXACT CIRCUIT NUMBER IN THE FIELD, WHEN BRANCH CIRCUITS ARE INDICATED TO BE CONNECTED TO EXISTING OARDS. REFER TO PANELBOARD DESIGNATION LEGEND ON THIS DRAWING FOR PANELBOARD ABBREVIATIONS AND CORRESPONDING PANELBOARD

LOOR CONDUIT ROUTING SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. CONTRACTOR SHALL COORDINATE EXACT CONDUIT ROUTING IN THE FIELD TH OTHER TRADES. PRIOR TO INSTALLATION, APPROVAL FOR ALL CONDUIT ROUTING IN THE SLAB OF THE FLOOR SHALL BE OBTAINED FROM THE JILDING STRUCTURAL ENGINEER AND BUILDING MANAGEMENT.

ATE ALL RJ45 JACKS WITH TIA T568B PINNING, UNLESS NOTED OTHERWISE.

LL CABLES WITH 300 MM (12") OF FINAL TERMINATION.

IMMUNICATION DRAWINGS ARE TO BE USED FOR CABLE SYSTEM INSTALLATION AND COORDINATION WITH OTHER CONTRACTORS AND SYSTEMS. DOK AND LOOP CABLE TIES (VELCRO) ARE PERMITTED FOR CABLES THAT ARE CATEGORY 3 OR HIGHER.

BLES RUN ABOVE SUSPENDED CEILING AREAS SHALL BE PROPERLY SUPPORTED WITH CABLE CADDY MOUNTED TO SLAB AT MINIMUM OF 1200 MM (4) LS. NO CABLES SHALL REST ON OR TOUCH CEILING ASSEMBLIES.

ELS SHALL BE MACHINE PRINTED. NO HAND LETTERED LABELS SHALL BE USED.

ENUM-RATED FT6 JACKETED CABLES ARE PERMITTED.

R TELECOMMUNICATION WIRING IS TO BE MINIMUM 300 MM (12") FROM ANY POWER CONDUIT / CABLING.

IN 400 MM (8") SEPARATION OF TELECOMMUNICATION WIRING FROM POWER TRANSFORMERS.

R AND STYLE OF TELECOMMUNICATION FACE PLATES SHALL MATCH ELECTRICAL FACE PLATES AND BE COORDINATED WITH ARCHITECT.

ILET MOUNTING HEIGHTS TO BE AS PER ARCHITECT, UNLESS NOTED OTHERWISE.

G OF TELECOMMUNICATION CABLES IS NOT PERMITTED, UNLESS NOTED OTHERWISE.

ELECTRICAL AND TELECOMMUNICATIONS BACKBOXES ARE INDICATED ON EACH SIDE OF A SINGLE WALL PARTITION, THE BACKBOXES MUST BE RED A MINIMUM OF 800 MM (16") FOR ACOUSTICS.

OUTLET, TERMINATE VOICE/DATA UTP CABLES ON THE RJ-45 TYPE JACKS IN THE FACEPLATE/BEZEL/FLOOR BOX.

DF / LAN ROOM, TERMINATE VOICE/DATA F/UTP CABLES ON THE CORRESPONDING PATCH PANELS MOUNTED WITHIN THE RACKS. PATCHING JLE AND LABELS WILL BE PROVIDED BY UTM DURING CONSTRUCTION.

LIGHTING & FIRE ALARM

- <u>GENERA</u>
- INSTRUCTIONS BEFORE ANY WORK COMMENCES.
- AS INDICATED.
- FURNISH ALL NECESSARY WIRES, CONDUIT AND JUNCTION BOXES REQUIRED TO KEEP CONTINUITY.

LIGHTING

- 2.1. REVISE EXISTING LIGHTING WIRING TO ACCOMMODATE NEW LIGHTING LAYOUT. BALANCE THE LOADS.
- 2.2. ALL LUMINAIRES SHALL BE INSTALLED ACCURATELY IN LINE & LEVEL.
- WITH WORK.
- NECESSARY. ENSURE THEY ARE FULLY FUNCTIONAL BEFORE PLACING BACK INTO SERVICE.
- 2.5. ALL NEW OR RELOCATED LUMINAIRES ARE TO BE CHAINED TO THE ABOVE CEILING FLOOR PAN. 2.6. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LUMINAIRE RUN LENGTHS.
- . EMERGENCY & EXIT LIGHTING

3.2. EXIT SIGNS ARE TO BE ILLUMINATED FOR A MINIMUM OF 120 MINUTES (2 HOURS) UPON LOSS OF UTILITY POWER.

- FIRE ALARM SYSTEM
- 4.2. ALL NEW FIRE ALARM DEVICES ARE TO BE LISTED FOR USE WITH EXISTING FIRE ALARM SYSTEM.

1.1. FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES, SWITCHES AND JUNCTION BOXES SEE ARCHITECTURAL DRAWINGS. 1.2. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF THE ALL EXISTING CONDITIONS PRIOR TO SUBMITTING ANY QUOTATION. 1.3. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE PROMPTLY REFERRED TO ENGINEER FOR

1.4. CONTRACTOR SHALL FURNISH ALL REQUIRED CONDUIT, WIRE AND BOXES AS WELL AS CEILING OUTLETS AND WHIPS TO ENERGIZE LIGHTING FIXTURES

1.5. CONTRACTOR SHALL MAINTAIN CONTINUITY IN ALL EXISTING CIRCUITRY TO REMAIN WHICH IS AFFECTED BY THE SCOPE OF WORK. CONTRACTOR TO

2.3. ANY RELOCATION OF LIGHTING LUMINAIRES REQUIRED DUE THE SITE CONDITIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO PROCEEDING

2.4. ALL EXISTING LUMINAIRES WHICH ARE REMAINING OR TO BE RELOCATED, SHALL BE CLEANED, RE-LAMPED & CHECKED FOR PROPER OPERATION, AS

3.1. EMERGENCY FIXTURE LOCATIONS ARE SHOWN AT DESIRED LOCATIONS. CONTRACTOR TO CONNECT TO THE NEAREST EXISTING EMERGENCY LIGHTING CIRCUIT IN THE AREA. CONTRACTOR TO CONFIRM IF EXISTING CIRCUIT HAS ADEQUATE CAPACITY TO ACCOMMODATE NEW LIGHT FIXTURES.

4.1. REUSE EXISTING FIRE ALARM DEVICES WHERE POSSIBLE. RELOCATE DEVICES AS INDICATED ON DRAWING. RE-VERIFY ALL DEVICES IN THE SPACE.

4.3. COORDINATE TIE-IN OF NEW FIRE ALARM COMPONENTS AND DEVICES WITH BASE BUILDING FIRE ALARM VENDOR.

4.4. AUDIBILITY TESTING IS TO BE PERFORMED IN EACH ENCLOSED SPACE WITHIN THE PROJECT AREA TO VERIFY SOUND PRESSURE LEVELS MEET THE



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С	05.30.24	ISSUED FOR PERMIT
В	05.13.24	ISSUED FOR 75% CD
А	04.15.24	ISSUED FOR 100% DD
REF	DATE	DESCRIPTION

NOTES

DRAWINGS ARE NOT TO BE SCALED.

CONSTRUCTION MUST CONFIRM TO ALL APPLICABLE CODES AND REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.

CONTRACTOR MUST VERIFY AND ACCEPT RESPONSIBILITY FOR ALL DIMENSIONS AND CONDITIONS ON SITE AND SHALL NOTIFY THE APPROPRIATE CONSULTANT OF DISCREPANCIES WITH OR VARIATIONS FROM THE INFORMATION PROVIDED BEFORE PROCEEDING WITH THE WORK.

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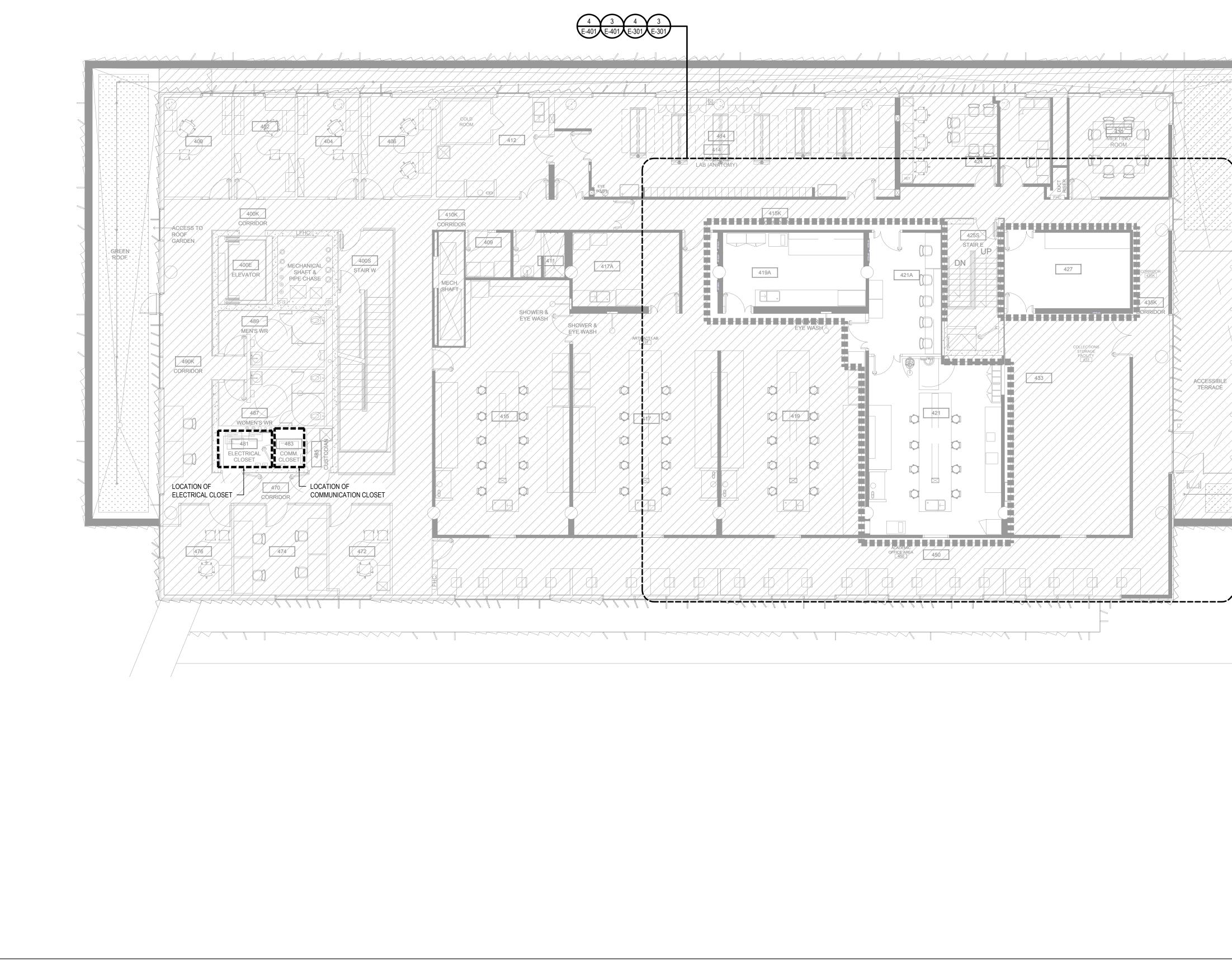




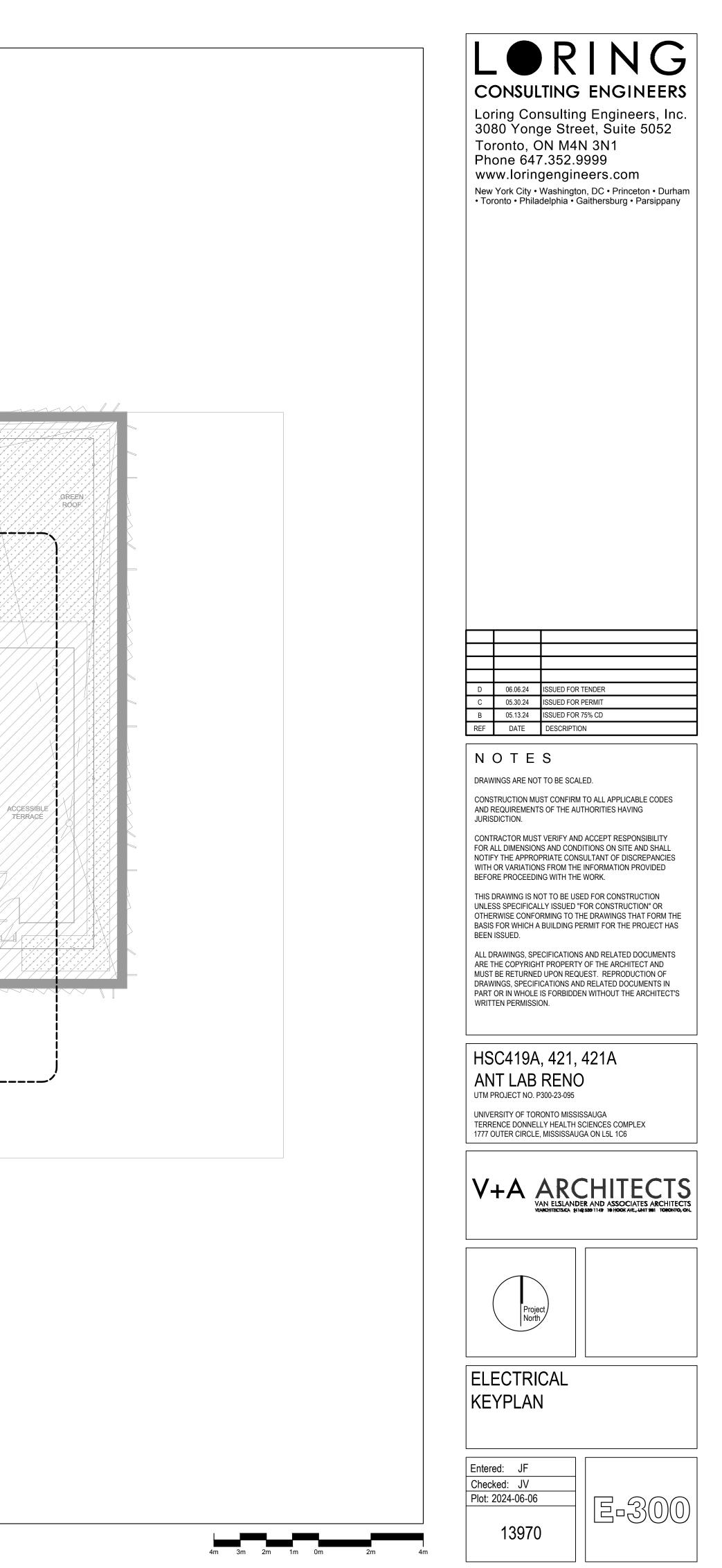
ELECTRICAL PROJECT GENERAL NOTES

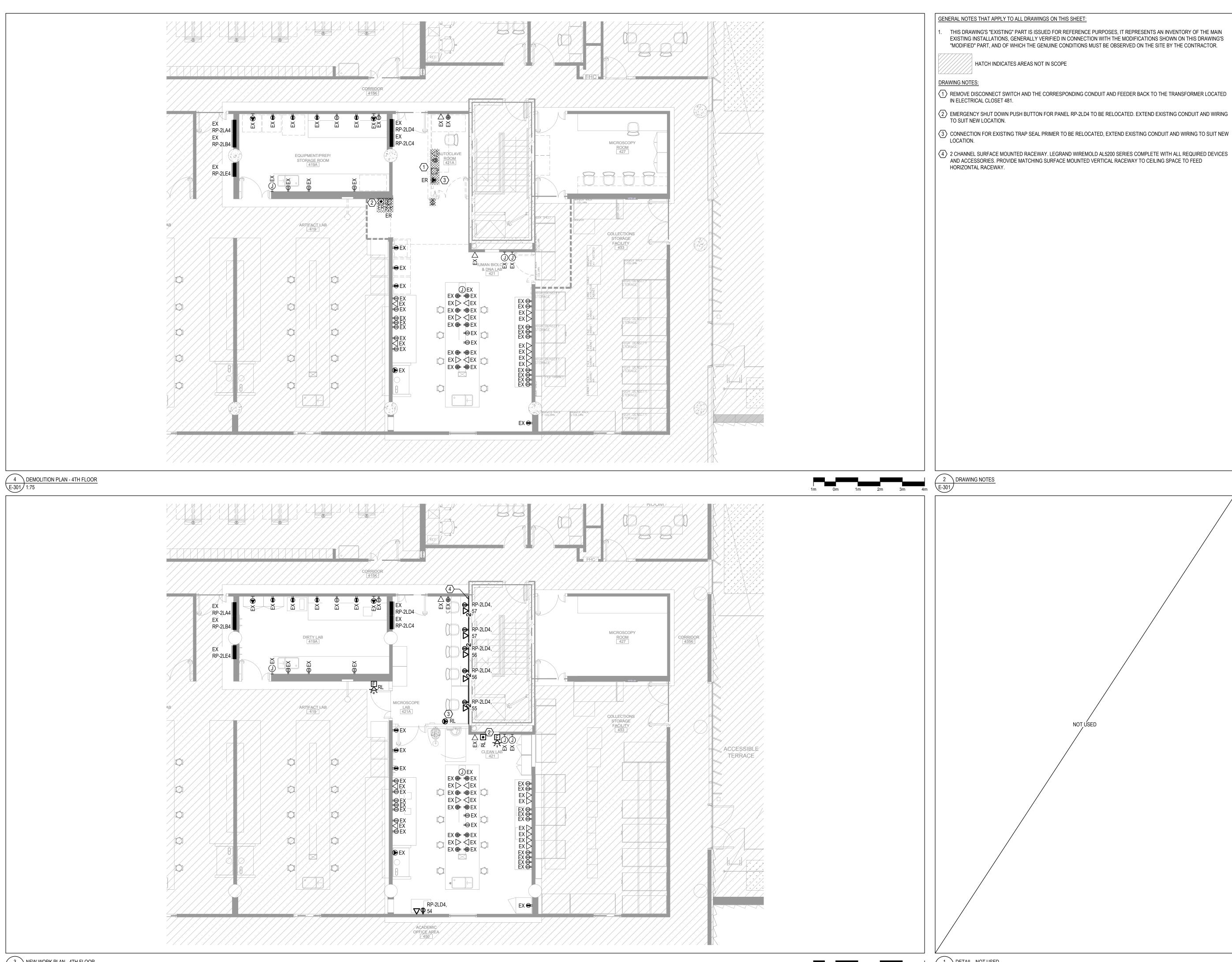
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CONSULTING ENGINEERS

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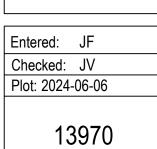
UNIVERSITY OF TORONTO MISSISSAUGA TERRENCE DONNELLY HEALTH SCIENCES COMPLEX 1777 OUTER CIRCLE, MISSISSAUGA ON L5L 1C6





POWER & SYSTEMS 4TH FLOOR PLAN

E-301





GENERAL NOTES THAT APPLY TO ALL DRAWINGS ON THIS SHEET:

THIS DRAWING'S "EXISTING" PART IS ISSUED FOR REFERENCE PURPOSES, IT REPRESENTS AN INVENTORY OF THE MAIN EXISTING INSTALLATIONS, GENERALLY VERIFIED IN CONNECTION WITH THE MODIFICATIONS SHOWN ON THIS DRAWING'S "MODIFIED" PART, AND OF WHICH THE GENUINE CONDITIONS MUST BE OBSERVED ON THE SITE BY THE CONTRACTOR.

HATCH INDICATES AREAS NOT IN SCOPE

1 INTEGRATE INTO SWITCHING FOR OPEN LAB AREA.

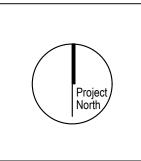
 $\langle 2 \rangle$ PROVIDE NEW RUNNING MAN TYPE EXIT SIGN.

3 PROVIDE NEW OCCUPANCY SENSOR AND TIE INTO EXISTING LIGHTING CONTROL CIRCUIT. TYPE TO MATCH EXISTING OCCUPANCY SENSOR LOCATED IN CLEAN LAB 421.

(4) RELOCATED LUMINAIRE TO BE CONNECTED TO EXISTING EMERGENCY LIGHTING CIRCUIT AND TIED INTO EXISTING LIGHTING CONTROLS.

RAWING NOTES
NOT USED

		RING ENGINEERS			
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LIGHTING 4TH FLOOR PLAN

Entered: JF Checked: JV Plot: 2024-06-06 13970

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