

University of Toronto CQIQC Suite and QIS Lab

ELECTRICAL DRAWINGS

ELECTRICAL DRAWING LIST

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E-701	ELECTRICAL EQUIPMENT LIST AND LUMINAIRE SCHEDULE

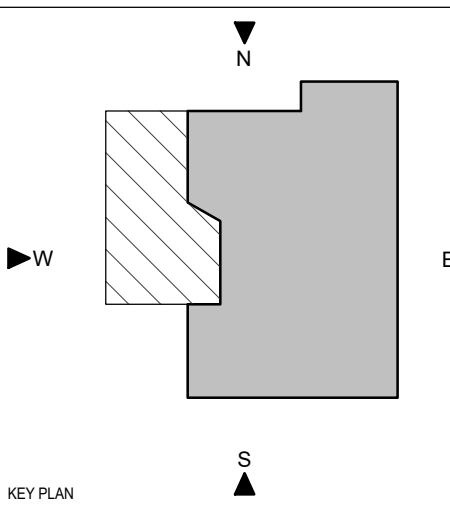
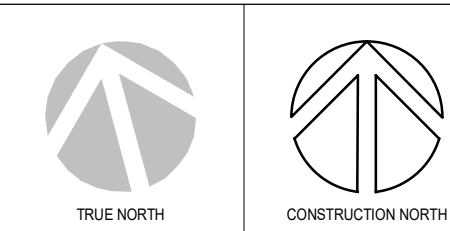
GENERAL NOTES

- GENERAL
- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH DESIGN CONSULTANT'S/ARCHITECTS DRAWINGS FOR DIMENSIONS, FINISHES AND MOUNTING HEIGHTS OF DEVICES, ETC.
- REFER ALSO TO COMMUNICATIONS, SECURITY, A/V, AND MECHANICAL DRAWINGS FOR ADDITIONAL DETAILS.
- LIGHTING
- ALL LUMINAIRES INCLUDING ALL DOWNLIGHTS AND PENDANTS, EXCLUDING EMERGENCY LUMINAIRES, WITHIN THE TENANT PREMISES TO BE ON A SEPARATE LIGHTING ZONE AND TO BE CONTROLLED BY BASE BUILDING LIGHTING CONTROL SYSTEM CONTACTORS, RELAY PANELS AND ANY INTERFACE REQUIRED FOR SUCH CONTROL. CONTACT BASE BUILDING OPERATIONS TO COORDINATE LIGHTING CONTROL ZONES AND TIE-INS PRIOR TO CONSTRUCTION START.
- EXTEND WIRING TO NEW EMERGENCY LUMINAIRES FROM EXISTING CIRCUITS AVAILABLE IN CEILING SPACE. DO NOT OVERLOAD CIRCUIT. PROVIDE NEW CIRCUITS AS NECESSARY. WHERE EXISTING EMERGENCY LIGHTING CIRCUITS ARE 247V AND EMERGENCY LIGHTING IS 120V, PROVIDE AUTO TRANSFORMERS AS REQUIRED. PLANS DENOTE FINAL LOCATION OF EMERGENCY LUMINAIRES. RE-CIRCUIT EXISTING NORMAL AND EMERGENCY LIGHTING CIRCUITS TO OBTAIN LAYOUT AS SHOWN.
- CONNECT EXIT LIGHTS TO NEAREST EXIT LIGHT CIRCUIT ON THIS FLOOR. ALL EXISTING RED EXIT LIGHTS WITHIN SCOPE OF WORK TO BE REMOVED AND REPLACED. EXIT LIGHTS SHALL MATCH BASE BUILDING STANDARD COMPLETE WITH GREEN RUNNING MAN PICTOGRAM. PROVIDE NEW CIRCUITS AS NECESSARY. EXIT LIGHTS SHALL BE CERTIFIED AS PER CSA 22.2 NO.141-10, AND MEET ISO 3864-1 AND 7010.
- WHERE EMERGENCY LIGHTS ARE CONTROLLED VIA 0-10V DIMMING, PROVIDE A 0-10V BYPASS SHUNT RELAY CERTIFIED AS PER UL924.
- POWER
- CIRCUIT NUMBERS SHOWN ARE FOR GROUPING PURPOSES ONLY. RE-ARRANGE EXISTING CIRCUITS AND PROVIDE NEW BREAKERS AS REQUIRED IN EXISTING PANELS.
- VERIFY EXACT POWER REQUIREMENTS OF ALL COPIER OUTLETS PRIOR TO ROUGH-IN.
- LIFE SAFETY SYSTEM
- PROVIDE COST FOR ADDITION, RELOCATION, VERIFICATION AND TESTING OF ALL LIFE SAFETY SYSTEM COMPONENTS. ALL FIRE ALARM WORK, INCLUDING TIE-INS TO BASE BUILDING LIFE SAFETY SYSTEM TO BE DONE BY LANDLORD'S CONTRACTOR WITH ASSOCIATED COSTS CARRIED IN THIS CONTRACT. ALL NEW LIFE SAFETY DEVICES TO MATCH BASE BUILDING STANDARDS.
- VOICE/DATA
- PROVIDE EMPTY CONDUIT C/W PULL STRING, JUNCTION BOXES AND ALL NECESSARY ACCESSORIES TO FACILITATE THE PROPER INSTALLATION OF VOICE/DATA CABLING AND DEVICES. THE SUPPLY AND INSTALLATION OF VOICE/DATA CABLING SHALL BE BY THE COMMUNICATIONS CONTRACTOR.
- SECURITY
- PROVIDE 120 VOLT POWER AND EMPTY CONDUIT C/W PULL STRING, JUNCTION BOXES AND ALL NECESSARY ACCESSORIES TO FACILITATE THE PROPER INSTALLATION OF SECURITY CABLING AND DEVICES. THE SUPPLY AND INSTALLATION OF SECURITY DEVICES AND WIRING SHALL BE BY SECURITY CONTRACTOR. CONFIRM EXACT REQUIREMENTS WITH TENANT PRIOR TO COMMENCEMENT OF ANY WORK.
- WHERE FIRE ALARM PULLSTATIONS ARE REQUIRED AT DOORS EQUIPPED WITH ELECTRO-MAGNETIC LOCKS, THE PULL STATION SHALL BE PROVIDED COMPLETE WITH DOUBLE CONTACTS. CONNECT ONE CONTACT DIRECTLY TO SECURITY MAG LOCK AND ONE CONTACT TO THE BASE BUILDING FIRE ALARM SYSTEM. WHERE PULLSTATIONS ARE SHOWN AS 'EXISTING TO REMAIN', CONFIRM IF DEVICES HAVE DUAL CONTACTS AND REPLACE WITH NEW, IF REQUIRED.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EXISTING OR NEW FLUORESCENT OR LED LUMINAIRE IN RELOCATED LOCATION. (CONTRACTOR TO SUPPLY NEW LUMINAIRES AS REQUIRED).		WALL MOUNTED DUPLEX RECEPTACLE (15A, 1P, 120V UNLESS OTHERWISE NOTED).
	LUMINAIRES ON EMERGENCY OR NIGHT LIGHT CIRCUIT.		WALL MOUNTED DUPLEX RECEPTACLE ON DEDICATED CIRCUIT. EACH DEDICATED CIRCUIT TO HAVE A SEPARATE NEUTRAL RUN DIRECTLY BACK TO PANELBOARD.
	FLUORESCENT OR LED STRIP LIGHT LUMINAIRE.		WALL MOUNTED QUAD RECEPTACLE. (15A, 1P, 120V UNLESS OTHERWISE NOTED).
	WALL MOUNTED LINEAR LUMINAIRE.		WALL MOUNTED SPLIT RECEPTACLE. (PROVIDE 15A 2P GFI BREAKER).
	RECESSED DOWNLIGHT LUMINAIRE.		WALL MOUNTED SINGLE RECEPTACLE (15A, 1P, 120V UNLESS OTHERWISE NOTED). NUMBER ADJACENT DENOTES AMPERAGE I.E. 20-20A, 30-30A, ETC.
	RECESSED WALL WASHER LUMINAIRE.		WALL MOUNTED DUPLEX RECEPTACLE (20A, 1P, 120V T-SLOT UNLESS OTHERWISE NOTED).
	CEILING MOUNTED LUMINAIRE.		WALL MOUNTED DUPLEX RECEPTACLE COMPLETE WITH TWO (2) USB CHARGERS (SINGLE (1) TYPE A AND SINGLE (1) TYPE C). RECEPTACLE SHALL BE 15A, 1P, 120V AND 2.0A, 5VDC FOR USB. HUBBELL CAT.# USB15ACSW OR EQUAL.
	WALL MOUNTED LUMINAIRE.		WALL MOUNTED GFI DUPLEX RECEPTACLE (15A, 1P, 120V UNLESS OTHERWISE NOTED).
	SUSPENDED (PENDANT) LUMINAIRE.		CEILING MOUNTED DUPLEX RECEPTACLE (15A, 1P, 120V UNLESS OTHERWISE NOTED).
	TRACK LIGHTING. QUANTITY OF HEADS AS SHOWN. LENGTH OF TRACK TO SCALE OR AS NOTED.		SURFACE MOUNT LOW PROFILE FLOOR BOX COMPLETE WITH POWER. "X" DENOTES TYPE, REFER TO ELECTRICAL SPECIFICATIONS OR DETAILS ON DRAWINGS FOR EXACT CONFIGURATION.
	LUMINAIRE DESIGNATOR. LETTER INSIDE DENOTES LUMINAIRE TYPE. REFER TO LUMINAIRE SCHEDULE.		SURFACE MOUNT LOW PROFILE FLOOR BOX COMPLETE WITH POWER AND COMMUNICATIONS. "X" DENOTES TYPE, REFER TO ELECTRICAL SPECIFICATIONS OR DETAILS ON DRAWINGS FOR EXACT CONFIGURATION.
	EXIT LIGHT - WALL OR CEILING MOUNTED AS SHOWN. ARROW(S) DENOTE(S) ILLUMINATED FACE(S) AND DIRECTION. BAR(S) INDICATE ILLUMINATED FACE(S) ONLY.		SURFACE MOUNT LOW PROFILE FLOOR BOX COMPLETE WITH POWER AND AUDIO VISUAL. "X" DENOTES TYPE, REFER TO ELECTRICAL SPECIFICATIONS OR DETAILS ON DRAWINGS FOR EXACT CONFIGURATION.
	LIGHT SWITCH - SINGLE POLE, 120 VOLT OR 347 VOLT AS REQUIRED.		SURFACE MOUNT LOW PROFILE FLOOR BOX COMPLETE WITH COMMUNICATION AND AUDIO VISUAL. "X" DENOTES TYPE, REFER TO ELECTRICAL SPECIFICATIONS OR DETAILS ON DRAWINGS FOR EXACT CONFIGURATION.
	THREE-WAY SWITCH.		SURFACE MOUNT LOW PROFILE FLOOR BOX COMPLETE WITH POWER, COMMUNICATIONS & AUDIO VISUAL. "X" DENOTES TYPE, REFER TO ELECTRICAL SPECIFICATIONS OR DETAILS ON DRAWINGS FOR EXACT CONFIGURATION.
	DIMMER SWITCH.		POKE THROUGH STYLE FLOOR BOX COMPLETE WITH POWER. "X" DENOTES TYPE, REFER TO ELECTRICAL SPECIFICATIONS OR DETAILS ON DRAWINGS FOR EXACT CONFIGURATION.
	GANGED SWITCHES.		POKE THROUGH STYLE FLOOR BOX COMPLETE WITH POWER AND COMMUNICATIONS. "X" DENOTES TYPE, REFER TO ELECTRICAL SPECIFICATIONS OR DETAILS ON DRAWINGS FOR EXACT CONFIGURATION.
	FOUR-WAY SWITCH.		POKE THROUGH STYLE FLOOR BOX COMPLETE WITH POWER AND AUDIO VISUAL. "X" DENOTES TYPE, REFER TO ELECTRICAL SPECIFICATIONS OR DETAILS ON DRAWINGS FOR EXACT CONFIGURATION.
	FAN SWITCH SUPPLIED BY OTHERS, AND INSTALLED BY ELECTRICAL CONTRACTOR.		POKE THROUGH STYLE FLOOR BOX COMPLETE WITH COMMUNICATION AND AUDIO VISUAL. "X" DENOTES TYPE, REFER TO ELECTRICAL SPECIFICATIONS OR DETAILS ON DRAWINGS FOR EXACT CONFIGURATION.
	DOOR SWITCH.		POKE THROUGH STYLE FLOOR BOX COMPLETE WITH POWER, COMMUNICATIONS & AUDIO VISUAL. "X" DENOTES TYPE, REFER TO ELECTRICAL SPECIFICATIONS OR DETAILS ON DRAWINGS FOR EXACT CONFIGURATION.
	PROJECTION SCREEN SWITCH. SUPPLIED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR.		HARDWIRE DIRECT CONNECTION TO SYSTEMS FURNITURE. 'F' DENOTES FLOOR, 'W' DENOTES WALL, 'C' DENOTES CEILING.
	LOW VOLTAGE SWITCH.		DIRECT CONNECTION OUTLET. (HARDWIRE DIRECT CONNECTION TO EQUIPMENT TERMINALS).
	LOW VOLTAGE MAIN SWITCH.		POWER POLE.
	MOTORIZED BLIND CONTROLLER. SUPPLIED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR.		ONE-PIECE TWO SECTION SURFACE METAL RACEWAY C/W BASE, COVER, POWER AND COMMUNICATIONS DIVIDER. POWER AND COMMUNICATIONS OUTLETS AS INDICATED AND ALL NECESSARY COMPONENTS AND ACCESSORIES REQUIRED FOR A COMPLETE SYSTEM. WIREMOLD 64000 OR HUBBELL APPROVED EQUAL.
	CEILING OR WALL MOUNTED OCCUPANCY MOTION SENSOR.		SINGLE-GANG WALL MOUNTED VOICE OUTLET BOX.
	DAYLIGHT SENSOR.		SINGLE-GANG WALL MOUNTED AUDIO/VISUAL OUTLET BOX.
	EMERGENCY BATTERY UNIT C/W UNIT MOUNTED DOUBLE HEAD.		DOUBLE-GANG WALL MOUNTED AUDIO VISUAL OUTLET BOX.
	EMERGENCY BATTERY UNIT C/W UNIT MOUNTED SINGLE HEAD.		SINGLE-GANG WALL MOUNTED COMBINATION VOICE/DATA OUTLET BOX.
	REMOTE DOUBLE HEAD EMERGENCY LAMP UNIT. WALL MOUNTED 'C' DENOTES CEILING MOUNTED.		WALL MOUNTED CATV OUTLET BOX C/W 21mm (3/4") EMPTY CONDUIT TO NEAREST COMMUNICATIONS ROOM.
	REMOTE SINGLE HEAD EMERGENCY LAMP UNIT. WALL MOUNTED 'C' DENOTES CEILING MOUNTED.		WIRELESS ACCESS POINT.
	REMOTE RECESSED EMERGENCY LAMP UNIT.		COMMUNICATIONS ZONE CONDUIT IN CEILING SPACE.
	FIRE ALARM PULLSTATION.		INTERCOM SYSTEM STATION. 'M' DENOTES MAIN. 'S' DENOTES SECONDARY.
	FIRE ALARM BELL.		DOORBELL - EDWARDS C-210 SERIES COMPLETE WITH TRANSFORMER.
	FIRE ALARM SYSTEM SPEAKER - CEILING OR WALL MOUNTED.		AUTOMATIC DOOR OPERATOR PUSH BUTTON SUPPLIED BY OTHERS. PROVIDE SINGLE GANG BOX COMPLETE WITH 21mm (3/4") CONDUIT AND 4C/18AWG UP TO DOOR MOTOR.
	FIRE ALARM SYSTEM SPEAKER/STROBE COMBINATION - CEILING OR WALL MOUNTED.		FLUSH MOUNTED AUDIO/VISUAL SYSTEMS LOUD SPEAKER, BACKBOX BY ELECTRICAL CONTRACTOR. SPEAKER ASSEMBLY AND GRILL BY OTHERS.
	FIRE ALARM SYSTEM STROBE - CEILING OR WALL MOUNTED.		CARD READER.
	FIRE ALARM SYSTEM HORN - CEILING OR WALL MOUNTED.		DOOR CONTACT.
	SMOKE DETECTOR - CEILING OR WALL MOUNTED.		ELECTRO-MAGNETIC DOOR LOCK.
	SMOKE DETECTOR - DUCT MOUNTED.		ELECTRIC STRIKE.
	SMOKE DAMPER CONNECTION.		ELECTRIC LOCK.
	SURFACE MOUNTED PANELBOARD.		DOOR RELEASE PUSHBUTTON.
	RECESSED PANELBOARD.		CEILING OR WALL MOUNTED SECURITY REQUEST TO EXIT SENSOR.
	DISTRIBUTION TRANSFORMER - FLOOR OR CEILING MOUNTED.		HELP/HOLD-UP/DRESS BUTTON.
	COMBINATION MAGNETIC STARTER.		KEY BY-PASS/KEY OVERRIDE.
	DISCONNECT SWITCH.		KEY PAD.
	SINGLE PHASE MOTOR CONNECTION COMPLETE WITH DISCONNECT SWITCH.		LOCAL AUDIBLE ALARM FOR UNIVERSAL WASHROOM.
	THREE PHASE MOTOR CONNECTION COMPLETE WITH DISCONNECT SWITCH.		LOCAL VISIBLE ALARM FOR UNIVERSAL WASHROOM.
	EXISTING CEILING DISTRIBUTION BOX IN CEILING SPACE.		CCTV CAMERA 21mm (3/4") EC BACK TO SECURITY PLANTWOOD BACKBOARD.
			ADDITIONAL GENERAL NOMENCLATURE
			EXISTING TO REMAIN
			EXISTING TO BE REMOVED AND/OR RELOCATED
			EXISTING IN RELOCATED POSITION
			REMOVE AND REINSTALL
			REMOVE AND REINSTALL IN REVISED LOCATION
			WEATHER PROOF

PROJECT LOGO



KEY PLAN

No.	DESCRIPTION	DATE
6	ISSUED FOR TENDER	2025-11-27
5	ISSUED FOR 100% CD	2025-11-21
4	ISSUED FOR 90% CD	2025-10-17
3	ISSUED FOR PERMIT	2025-10-03
2	ISSUED FOR 100% DO R1	2025-09-19
1	ISSUED FOR 100% DO	2025-07-10

REVISIONS:

DISCREPANCIES MUST BE REPORTED IMMEDIATELY TO THE ARCHITECT / ENGINEER BEFORE PROCEEDING.
ONLY FIGURED DIMENSIONS MUST BE USED.
THE CONTRACTOR MUST CHECK THE DIMENSIONS ON SITE.
THE DRAWING IS PROTECTED BY COPYRIGHT.
ALL DIMENSIONS ARE SHOWN IN MILLIMETERS.
DO NOT SCALE THE DRAWINGS.

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SEAL

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DRAWING TITLE:
**ELECTRICAL LEGEND,
GENERAL NOTES AND
DRAWING LIST**

SHEET SIZE: ARCH D (810x914) SCALE: 1:1

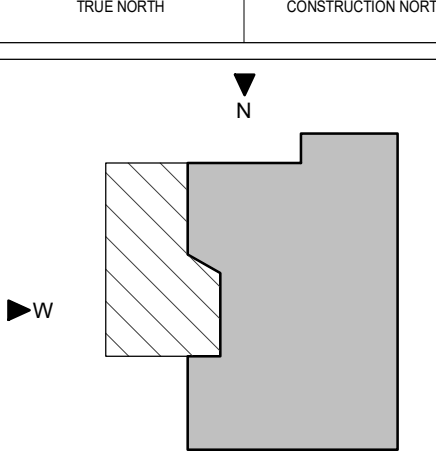
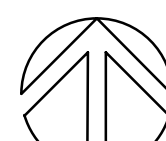
PROJECT NO: **251016**

DRAWING NO.: **E-001**

PROJECT: University of Toronto CQIQC Suite and QIS Lab
DRAWING TITLE: ELECTRICAL LEGEND, GENERAL NOTES AND DRAWING LIST
SHEET SIZE: ARCH D (810x914) SCALE: 1:1
PROJECT NO: 251016
DRAWING NO.: E-001
DATE: 2025-11-27 2:28:35 PM
PLOT DATE: 2025-11-27 2:28:35 PM

- 3.6 TWO OR MORE OUTLET BOXES THAT OCCUR AT THE SAME LOCATION SHALL BE GANGED TOGETHER IN THE SAME COVERPLATE UNLESS OTHERWISE NOTED.
- 3.7 PROVIDE "F" OR "FD" FERALOY BOXES FOR ALL SURFACE MOUNTED DEVICES, INCLUDING FIRE ALARM, SECURITY AND AUXILIARY SYSTEMS.
4. GROUNDING
- 4.1 GROUND ALL EQUIPMENT IN ACCORDANCE WITH LATEST EDITION OF THE ELECTRICAL SAFETY CODE. PROVIDE SEPARATE GREEN INSULATED GROUND CONDUIT TO ALL DEVICES, LUMINAIRES AND FEEDERS (PANELBOARDS, SPLITTERS, DISCONNECT SWITCHES, ETC.).
5. WIRE AND CABLE
- 5.1 ALL WIRE AND CABLE SHALL BE COPPER, MINIMUM 12 GAUGE, NO. 12 AND NO. 10 SOLID, NO. 8 AND LARGER STRANDED, WITH RW90XLPE INSULATION, 600VOLT RATING.
- 5.2 BX#12 MAY BE USED IN CEILING SPACE FROM CEILING DISTRIBUTION BOX DOWN TO RECEPTACLES IN PARTITIONS. BX RUNS IN CEILING SPACE NOT TO EXCEED 3048MM(10'-0") IN LENGTH. DO NOT RUN BX CABLES INTO PANELBOARDS.
- 5.3 WALL MOUNTED DEVICES SHALL BE FED VERTICALLY. HORIZONTAL RUNS THROUGH PARTITIONS SHALL NOT BE PERMITTED, EXCEPT IN LOW HEIGHT PARTITIONS OR WHERE NOTED ON DRAWINGS.
- 5.4 SIZE ALL WIRE FOR MAXIMUM 2% VOLTAGE DROP.
- 5.5 ALL HOME RUNS TO BE IN CONDUIT.
6. LOCAL SWITCHES
- 6.1 LIGHT SWITCHES SHALL MATCH BASE BUILDING STANDARD. WHERE NO STANDARD EXISTS, PROVIDE SPECIFICATION GRADE LOCAL 20A, 120 VOLT AND 347 VOLT SWITCHES, A.C. TYPE WITH MATCHING COVERPLATE.
- 120 VOLT
P&S #2621 SERIES
HUBBELL #HBL2121 SERIES
LEVITON #5621-2 SERIES
- 347 VOLT
P&S #2601-347 SERIES
LEVITON #5621-C-347 SERIES
- 6.2 OCCUPANCY SENSOR LIGHT SWITCH SHALL MATCH BASE BUILDING STANDARD. WHERE NO STANDARD EXISTS SENSOR SHALL BE HUBBELL DUAL TECHNOLOGY OCCUPANCY SENSORS LHMTS-1WH OR EQUAL BY WATTS TOPPER,CRESTRON OR NLIGHT SUITABLE FOR 120V OR 347V AS REQUIRED. SENSOR SHALL BE MANUAL "ON" WITH AUTO-OFF FUNCTION AND C/W FIELD ADJUSTABLE VIEWING ANGLE AND ADAPTIVE TECHNOLOGY. PROVIDE INDIVIDUAL TIME AND SENSOR ADJUSTMENT TO CLIENT'S REQUIREMENTS.
- 6.3 CEILING MOUNTED ADAPTIVE TECHNOLOGY OCCUPANCY SENSORS SHALL MATCH BASE BUILDING STANDARD. WHERE NO STANDARD EXISTS SENSOR SHALL BE HUBBELL DUAL TECHNOLOGY OCCUPANCY SENSORS OMNI-DT OR APPROVED EQUAL BY WATTS TOPPER, CRESTRON OR NLIGHT SUITABLE FOR 120V OR 347V AS REQUIRED. SENSOR SHALL BE C/W POWER PACK AND ALL NECESSARY WIRING ACCESSORIES AND SUITABLE FOR 500, 1000 OR 2000 SQ. FT. AS REQUIRED. PROVIDE INDIVIDUAL TIME AND SENSOR ADJUSTMENT TO CLIENT'S REQUIREMENTS.
- 6.4 REFER TO LEGEND FOR OTHER TYPES.
7. LIGHTING CONTROL SYSTEMS
- 7.1 INCLUDE FOR ALL NECESSARY RELAYS, INTERFACES, POWERPACKS, ETC REQUIRED FOR A COMPLETE AND FUNCTION SYSTEM. REFER TO LIGHTING CONTROL DRAWINGS FOR MORE INFORMATION. INCLUDE FOR A SUFFICIENT AMOUNT OF TIME FOR ALL NECESSARY PROGRAMMING AND COMMISSIONING OF LIGHTING CONTROL SYSTEM.
- 7.2 ELECTRICAL CONTRACTOR SHALL INCLUDE FOR A CONNECTION TO THE BASE BUILDING FIRE ALARM SYSTEM TO ENSURE THAT ALL LIGHTS ARE BROUGHT TO FULL BRIGHTNESS IN THE EVENT OF A FIRE ALARM. PROVIDE ALL NECESSARY INTERFACES/MODULES FOR BOTH THE FIRE ALARM AND LIGHTING CONTROL SYSTEMS.
- 7.3 WHERE TENANT'S LIGHTING CONTROL SYSTEM IS NOT INTEGRATED WITH THE BASE BUILDING LIGHTING CONTROL SYSTEM, INCLUDE FOR TIE IN TO BASE BUILDING LIGHTING CONTROL SYSTEM VIA NETWORK/RS232 INTERFACE.
- 7.4 VERIFY SEQUENCE OF OPERATIONS OF LIGHTING CONTROL SYSTEM WITH CLIENT PRIOR TO FINAL PROGRAMMING.
- 7.5 ENSURE THAT EACH LIGHTING TYPE WITHIN A GIVEN ZONE OR AREA RECEIVES A DEDICATED POWER PACK THAT MATCHES THE DIMMING PROTOCOL OF THE SPECIFIED FIXTURE. EMERGENCY LIGHT FIXTURES WITHIN A GIVEN ZONE SHALL RECEIVE A DEDICATED UL 924 LISTED EMERGENCY POWER PACK THAT MATCHES THE DIMMING PROTOCOL OF THE SPECIFIED FIXTURE.
- 7.6 FINAL ADJUSTMENT OF ALL LIGHTING LEVELS SHALL BE DONE IN THE PRESENCE OF THE CONSULTANT/CLIENT. ELECTRICAL CONTRACTOR TO NOTIFY THE CONSULTANT IN WRITING A MINIMUM OF 3 DAYS PRIOR TO REQUIRED SITE VISIT. VISIT SHALL BE SCHEDULED ONCE THE SITE IS SUBSTANTIALLY COMPLETE WITH ALL FURNITURE INSTALLED AND ALL PAINTING COMPLETED.
- 7.7 ELECTRICAL CONTRACTOR SHALL INCLUDE TO RETURN TO SITE 3 MONTHS AFTER SUBSTANTIAL COMPLETION ALONG WITH LIGHTING CONTROL MANUFACTURER TO ADJUST PROGRAMMING OF THE LIGHTING CONTROL SYSTEM TO SUIT CLIENT NEEDS.
- 7.8 WHERE POSSIBLE, RUN ALL LIGHTING CONTROL WIRING WITHIN THE SAME CONDUIT AS THE BRANCH CIRCUIT WIRING. WHERE WIRING IS NOT CLASS 1 RATED, SEPARATE LIGHTING CONTROL CONDUIT SHALL BE PROVIDED FOR ALL CONTROL WIRING.
8. RECEPTACLES
- 8.1 PROVIDE SPECIFICATION GRADE 15A, 120 VOLT, "U" GROUND DUPLEX RECEPTACLES, WITH MATCHING COVERPLATES. RECEPTACLES SHALL BE OF THE "DESIGNER" RECTILINEAR STYLE.
- 8.2 REFER TO LEGEND FOR OTHER TYPES.
- 8.3 RECEPTACLES SHALL HAVE CIRCUIT NUMBER IDENTIFIED ON THE WALL PLATE VIA SELF-ADHESIVE VINYL LABEL AND FURTHER IDENTIFIED WITH THE EXACT LOCATION LISTED IN THE PANEL DIRECTORY.
9. DIMMERS
- 9.1 PROVIDE DIMMERS WITH LINEAR SLIDE CONTROL, SIZED TO SUIT LOADS CONTROLLED FOR FLUORESCENT, INCANDESCENT, LED, 0-10V, LOW VOLTAGE MAGNETIC AND LOW VOLTAGE ELECTRONIC LIGHTING AS INDICATED.
- 9.2 ALL DIMMERS SHALL INCORPORATE AN AIR GAP WHICH SHALL BE ACCESSIBLE WITHOUT REMOVING THE FACEPLATE; MEET THE U.L. 20 U.L. 1472 LIMITED SHORT CIRCUIT TEST REQUIREMENTS FOR SNAP SWITCHES, AND MEET ANSI/IEEE STANDARD C82.41-1980, TESTED TO WITHSTAND VOLTAGE SURGES OF UP TO 8000V. AND CURRENT SURGES OF UP TO 200A WITHOUT DAMAGE. MANUFACTURER SHALL PROVIDE FILE CARD UPON REQUEST SHOWING THEIR COMPLIANCE WITH THE ABOVE STANDARDS.
- 9.3 DIMMERS SHOWN SIDE BY SIDE SHALL BE GANGED UNDER ONE SEAMLESS, MULTI-GANG FACEPLATE.
- 9.4 DIMMERS SHALL BE OF LUTRON NOVA T SERIES OR APPROVED EQUAL, UNLESS NOTED OTHERWISE.
- 9.5 WHEN FLUORESCENT AND/OR COMPACT FLUORESCENT LAMPS ARE TO BE DIMMED, PROVIDE EITHER LUTRON ECO-10 OR LUTRON HI-LUME DIMMING BALLASTS AS SPECIFIED IN LUMINAIRE SCHEDULE. OPERATE LAMPS AT FULL BRIGHTNESS FOR A MINIMUM 100 HOURS PRIOR TO DIMMING.
10. MECHANICAL TRADES WIRING
- 10.1 UNLESS OTHERWISE NOTED, ALL STARTERS AND CONTROL WIRING TO BE PROVIDED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO RECEIVE, INSTALL STARTERS AND PROVIDE ALL LINE-SIDE AND LOAD-SIDE POWER WIRING AND REQUIRED ISOLATING DISCONNECT SWITCHES.
- 10.2 CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
11. LUMINAIRES
- 11.1 PROVIDE ALL LUMINAIRES AS SHOWN ON THE DRAWINGS AND AS SPECIFIED IN THE LUMINAIRE SCHEDULE.
- 11.2 ALL LUMINAIRES SHALL BE COMPLETE WITH NEW LAMPS, BALLASTS, ACCESSORIES AND MOUNTING APPURTENANCES.
- 11.3 ALL LUMINAIRES TO BE CSA APPROVED.
- 11.4 AIM AND ADJUST ALL LUMINAIRES IN PRESENCE OF CONSULTANT.
- 11.5 ALL NEW DOWNLIGHT AND SURFACE MOUNTED LUMINAIRES INSTALLED IN OR ON THE BASE BUILDING CEILINGS SHALL BE INDEPENDENTLY SUPPORTED FROM BUILDING STRUCTURE WITH TENSO CHAINS UNLESS OTHERWISE NOTED. INCLUDE TO TRIM ALL NECESSARY SUPPORT CABLES, POWER CABLES, ETC TO SUIT THE APPROPRIATE LENGTH OF FINAL FIXTURE SUPPORT. ANY ADDITIONAL CABLING SHALL BE NEATLY DRESSED AND CONCEALED WHEREVER POSSIBLE.
- 11.6 UNLESS WRITTEN CONFIRMATION CAN BE PROVIDED THAT THE EXISTING BASE BUILDING CEILING HAS BEEN DESIGNED AND CONSTRUCTED TO SUPPORT THE ADDITIONAL WEIGHT OF THE BASE BUILDING LUMINAIRES, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ADDITIONAL SUPPORTS ON ALL LUMINAIRE BUILDING LUMINAIRES BEING ADDED AND ON ALL RELOCATED EXISTING LUMINAIRES. ALL TROFFER FIXTURES SHALL BE SUPPORTED WITH 2 TENSO CHAINS FROM STRUCTURE ABOVE. ALL DOWNLIGHTS SHALL BE SUPPORTED WITH A MINIMUM OF ONE TENSO CHAIN. INCLUDE COST IN TENDER PRICE.
- 11.7 EACH LUMINAIRE INSTALLED ON BRANCH CIRCUITS WITH VOLTAGES EXCEEDING 150 VOLTS-TO-GROUND, SHALL BE:
(A) PROVIDED WITH A DISCONNECTING MEANS INTEGRAL WITH THE LUMINAIRE THAT SIMULTANEOUSLY OPENS ALL CIRCUIT CONDUCTORS BETWEEN THE BRANCH CIRCUIT CONDUCTORS AND THE CONDUCTORS SUPPLYING THE BALLAST(S); AND
(B) MARKED IN A CONSPICUOUS, LEGIBLE, AND PERMANENT MANNER ADJACENT TO THE DISCONNECTING MEANS, IDENTIFYING THE SPECIFIC PURPOSE.
- 11.8 COOPERATE WITH ALL OTHER TRADES FOR THE PROPER INSTALLATION OF ALL LUMINAIRES.
- 11.9 ACCEPTABLE MANUFACTURERS FOR ALL TYPES OF LAMPS OF ALL SPECIFIED LUMINAIRES SHALL BE OSRAM SYLVANIA, PHILIPS OR GE. UNLESS OTHERWISE NOTED, BALLASTS AND LAMPS MUST BE BY THE SAME MANUFACTURER.
- 11.10 WITH JUST EMERGENCY LIGHTING IN OPERATION, AND AT NIGHT, THE ELECTRICAL CONTRACTOR IS TO MEASURE THE "AVERAGE" ILLUMINATION AT THE FLOOR LEVEL ALONG THE PRINCIPAL EGRESS ROUTES PROVIDING ACCESS TO EXITS. TAKE MULTIPLE READINGS ALONG THE PATHWAY AT AN APPROPRIATE INTERVAL NOT TO EXCEED 10' O.C. THAT ALLOWS FOR MAXIMUM AND MINIMUM VALUES TO BE ESTABLISHED AND RECORD ALL LIGHTING RESULTS ON A CAD DISK OR PDF SET OF DRAWINGS FOR SUBMISSION TO THE CONSULTANT. SUBMISSION TO THE BUILDING INSPECTION AUTHORITIES TO BE BY THE ELECTRICAL CONTRACTOR. ADDITIONALLY, WHERE EMERGENCY LIGHTING IS ACHIEVED THROUGH UNIT EQUIPMENT CONFORMING TO CSA C22.2 NO 11 ELECTRICAL CONTRACTOR SHALL TEST THE RUNTIME OF ALL UNIT EQUIPMENT AND REPORT TO THE CONSULTANT IN WRITING. INCLUDE RUNTIME VERIFICATION IN CLOSEOUT DOCUMENTS.
12. MEGGERING AND BALANCING
- 12.1 MEGGER ALL POWER CIRCUIT FEEDERS. IF GROUND RESISTANCE ON ANY CIRCUIT IS LESS THAN THAT REQUIRED BY CSA OR OTHER GOVERNING REGULATIONS, SUCH CIRCUITS ARE TO BE CONSIDERED DEFECTIVE AND MUST BE REPLACED.
- 12.3 MEASURE PHASE CURRENT TO PANELBOARDS WITH NORMAL LOADS OPERATING AT TIME OF ACCEPTANCE. ADJUST BRANCH CIRCUIT CONNECTIONS AS REQUIRED TO OBTAIN BEST BALANCE OF CURRENT BETWEEN PHASES AND SUBMIT A REPORT FOR INSERTION INTO MANUALS.
13. SERVICE EQUIPMENT
- 13.1 ALL NEW PANELBOARDS, DISCONNECT SWITCHES, METERS, TRANSFORMERS, ETC., TO BE COPPER WINDINGS/BUS-BARS, SAME MANUFACTURE, RATING AND TYPE AS BASE BUILDING EQUIPMENT UNLESS OTHERWISE NOTED. MOLDED CASE CIRCUIT BREAKERS TO BE BOLT-ON AND SAME MANUFACTURER, RATING AND TYPE AS BASE BUILDING BREAKERS. ALL ATS'S AND SURFACE MOUNTED PANELBOARDS TO BE SPRINKLERPROOF. IF UNABLE TO MATCH BASE BUILDING EQUIPMENT, ONE OF THE FOLLOWING MANUFACTURER'S EQUIPMENT MUST BE PROVIDED:
- SCHNEIDER
EATON
SIEMENS
- 13.2 ALL NEW PANELBOARDS SHALL BE COMPLETE WITH 200% RATED NEUTRAL BUS.
- 13.3 ALL MAIN BREAKERS SHALL BE SEPARATELY MOUNTED ON TOP OR BOTTOM OF PANEL TO SUIT CABLE ENTRY.
- 13.4 DRY TYPE TRANSFORMERS SHALL BE MANUFACTURED TO CSA C22.2 NO. 47, CSA C9 AND CAN/CSA C802 AND SHALL MEET NRCAN 2019 AND ONTARIO GREEN ACT - ON REG 404.12. TRANSFORMERS SHALL BE OF THE SAME MANUFACTURER AS THE BASE BUILDING BUT WITH A DESIGN K FACTOR OF 1.3 AND WITH ELECTROSTATICALLY SHIELDED, COPPER WINDINGS. PROVIDE DOUBLE LUGS ON TRANSFORMER NEUTRAL S FOR CONNECTION OF CABLES. TRANSFORMERS SHALL NOT BE "T-TAP" TYPE. TRANSFORMER IMPEDANCE NOT TO EXCEED 6% AT 170 DEG. C. IF UNABLE TO MATCH BASE BUILDING TRANSFORMER, ONE OF THE FOLLOWING MANUFACTURER'S TRANSFORMERS MUST BE PROVIDED:
- SCHNEIDER DELTA ACME HUBBELL ATLAS
HAMMOND STI RE X
- 13.5 CEILING MOUNT TRANSFORMERS UP TO 75 KVA WITH SUSPENSION RODS AND SPRING ISOLATORS, TRANSFORMERS LARGER THAN 75KVA TO BE FLOOR MOUNTED ON KORFUND ISOLATION PADS UNLESS OTHERWISE NOTED.
- 13.6 ALL FLOOR MOUNTED DISTRIBUTION EQUIPMENT, INCLUDING TRANSFORMERS, PANELBOARDS AND/OR UPS MODULES SHALL BE INSTALLED ON A 100MM (4") HIGH CONCRETE BASE TO EXTEND 50MM (2") ON ALL SIDES WITH CHAMFERED CORNERS. ALL CONCRETE WORK TO BE INCLUDED IN THIS DIVISION.
- 13.7 PROVIDE A CONCRETE BASE 100MM (4") HIGH AT ALL SLEEVE LOCATIONS AND CONDUITS PENETRATING THE FLOOR SLAB. CONCRETE BASE TO EXTEND 100MM (4") BEYOND THE EDGE OF THE SLEEVE OR CONDUIT. ALL CONCRETE WORK TO BE INCLUDED IN THIS DIVISION.
14. CABLE TROUGHS
- 14.1 CABLE TROUGHS, AS DEFINED IN CSA C22.2, NO.126, ACCESSORIES AND FITTINGS SHALL BE MANUFACTURED TO EMAC F5.1.
- 14.2 UNLESS OTHERWISE NOTED, POWER SYSTEMS CABLE TRAYS SHALL BE VENTILATED STEEL, CLASS C1, WITHOUT COVER, SIZED AS INDICATED AND WITH A NATURAL FINISH.
- 14.3 UNLESS OTHERWISE NOTED, VOICE/DATA/HUB ROOM CABLE TRAYS SHALL BE BASKET STYLE, PRE-GALVANIZED, CLASS C1, SIZED AS INDICATED AND WITH A NATURAL FINISH.
- 14.4 SUPPORTS SHALL BE ROD AND CHANNEL OF A SIZE TO SUIT TOTAL LOAD. PROVIDE "Z" BRACKETS TO BE INSTALLED AT EXTERIOR OF CABLE TRAYS TO PREVENT DAMAGE TO CABLES.
- 14.5 SUPPLY ALL BENDS, ELBOWS, END PLATES, DROP OUTS, TEES, WYES AND EXPANSION JOINTS FOR THE COMPLETE SYSTEM AS REQUIRED. PROVIDE PLASTIC CAPS ON ALL INTERNAL BOLTS WITHIN CABLE TRAY WHICH ARE USED TO JOIN BARRIER STRIPS AND FITTINGS.
- 14.6 REMOVE SHARP EDGES TO PREVENT CABLE DAMAGE OR INJURY TO PERSONNEL.
- 14.7 PROVIDE GROUNDING FOR ALL CABLE TROUGHS AS PER THE O.E.S.C.
15. DRY WALL CEILINGS
- 15.1 IN ALL DRYWALL CEILING AREAS, ELECTRICAL CONTRACTOR IS TO REMOVE AND RELOCATE ALL EXISTING JUNCTION BOXES TO ACCESSIBLE CEILING SPACE.
- 15.2 PROVIDE ACCESS PANELS FOR ALL NEW AND EXISTING DEVICES AS REQUIRED.
16. BREAKERS
- 16.1 PROVIDE BREAKER LOCKS FOR ALL NEW AND EXISTING BREAKERS SERVING EXIT LIGHTS, EMERGENCY LIGHTING AND EMERGENCY BATTERY PACKS.
- 16.2 PROVIDE 15A 1P G.F.I. BREAKER FOR ALL DUPLEX RECEPTACLES AND 15A 2P G.F.I. BREAKER FOR ALL SPLIT RECEPTACLES INSTALLED WITHIN 1.5 METERS (59") OF SINK, SHOWER, ETC.
- 16.3 TANDEM BREAKERS SHALL NOT BE UTILIZED.

PROJECT LOGO



KEY PLAN

NO.	DESCRIPTION	DATE
6	ISSUED FOR TENDER	2025-11-27
5	ISSUED FOR 100% CD	2025-11-21
4	ISSUED FOR 90% CD	2025-10-17
3	ISSUED FOR PERMIT	2025-10-03
2	ISSUED FOR 100% DD R1	2025-06-19
1	ISSUED FOR 100% DD	2025-07-10

REVISIONS

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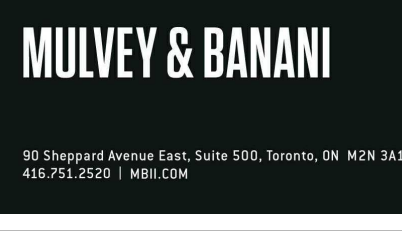
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CONSULTANTS



PROJECT:

University of Toronto CQIC Suite and QIS Lab

**University of Toronto,
27 King's College Cir,
Toronto, ON M5S 1A1**

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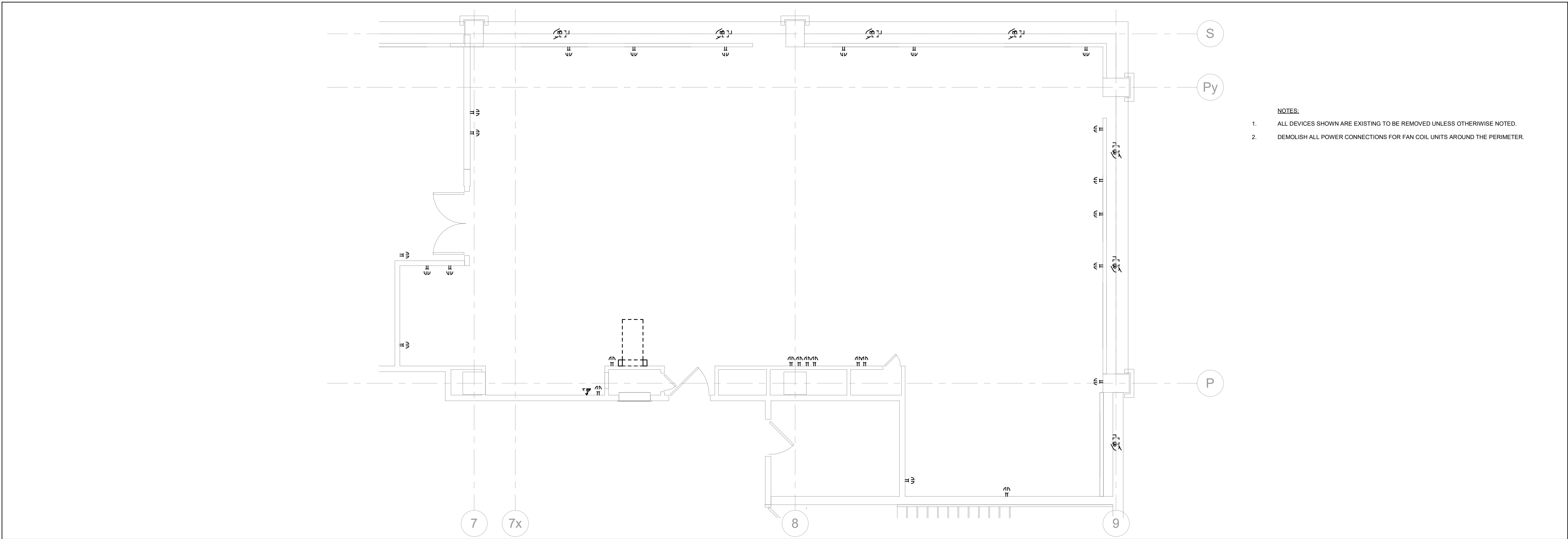
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SPECIFICATIONS**

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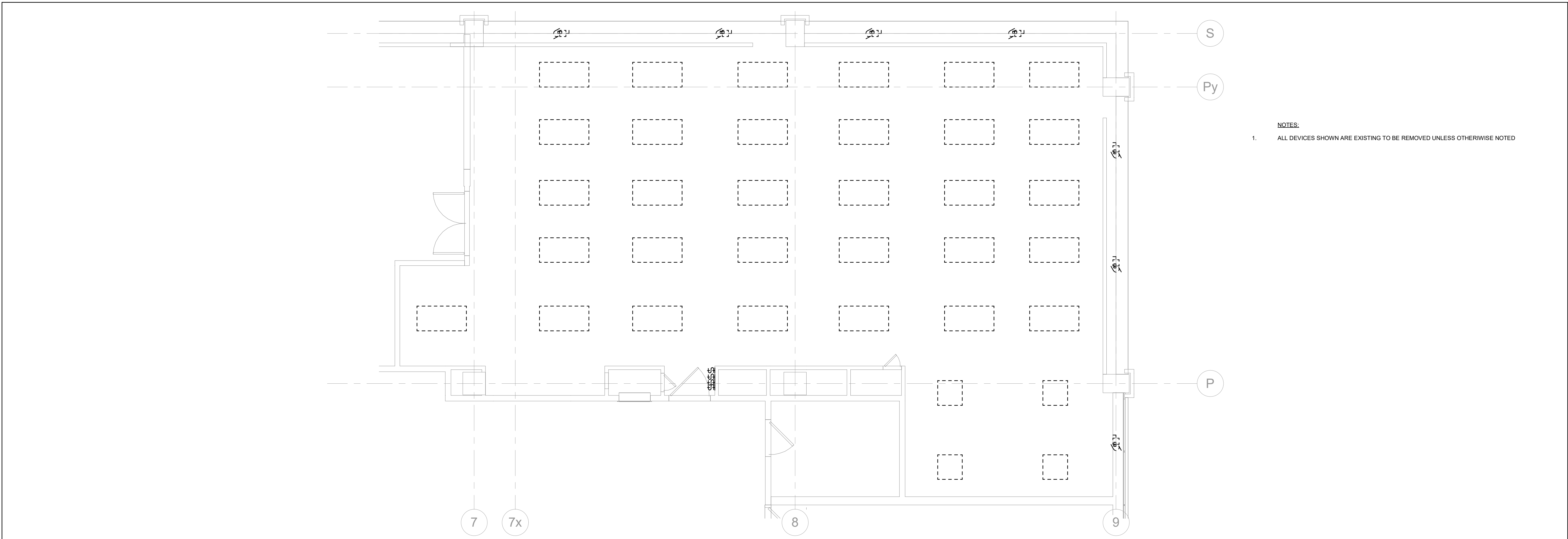
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DATE: 2025-11-27 2:28:37 PM



2
E-103
LEVEL 3 - POWER & SYSTEMS - SUITE - DEMOLITION
1 : 50

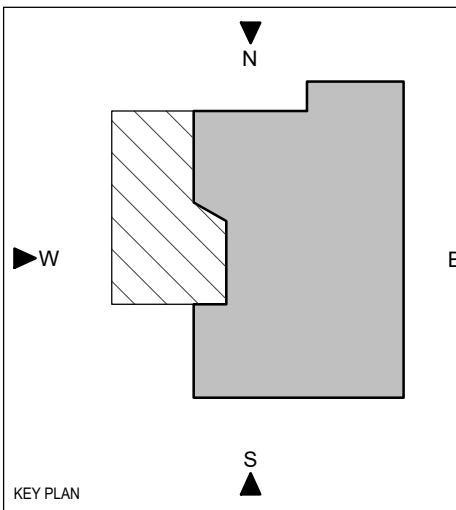


1
E-103
LEVEL 3 - LIGHTING - SUITE - DEMOLITION
1 : 50

- NOTES:
- ALL DEVICES SHOWN ARE EXISTING TO BE REMOVED UNLESS OTHERWISE NOTED.
 - DEMOLISH ALL POWER CONNECTIONS FOR FAN COIL UNITS AROUND THE PERIMETER.

- NOTES:
- ALL DEVICES SHOWN ARE EXISTING TO BE REMOVED UNLESS OTHERWISE NOTED

PROJECT LOGO



KEY PLAN

6	ISSUED FOR TENDER	2025-11-27
5	ISSUED FOR 100% CD	2025-11-21
4	ISSUED FOR 90% CD	2025-10-17
3	ISSUED FOR PERMIT	2025-10-03
2	ISSUED FOR 100% DO R1	2025-09-19
1	ISSUED FOR 100% DO	2025-07-10
No.	DESCRIPTION	DATE

REVISIONS:

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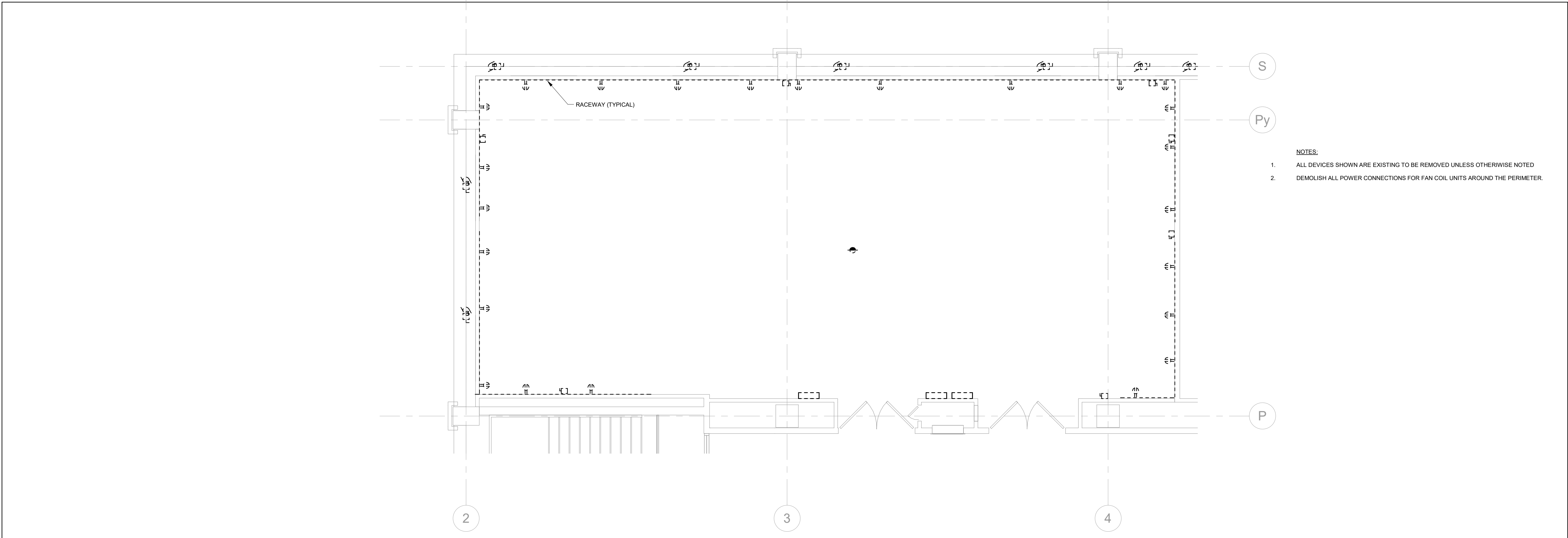
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ELECTRICAL PLANS**

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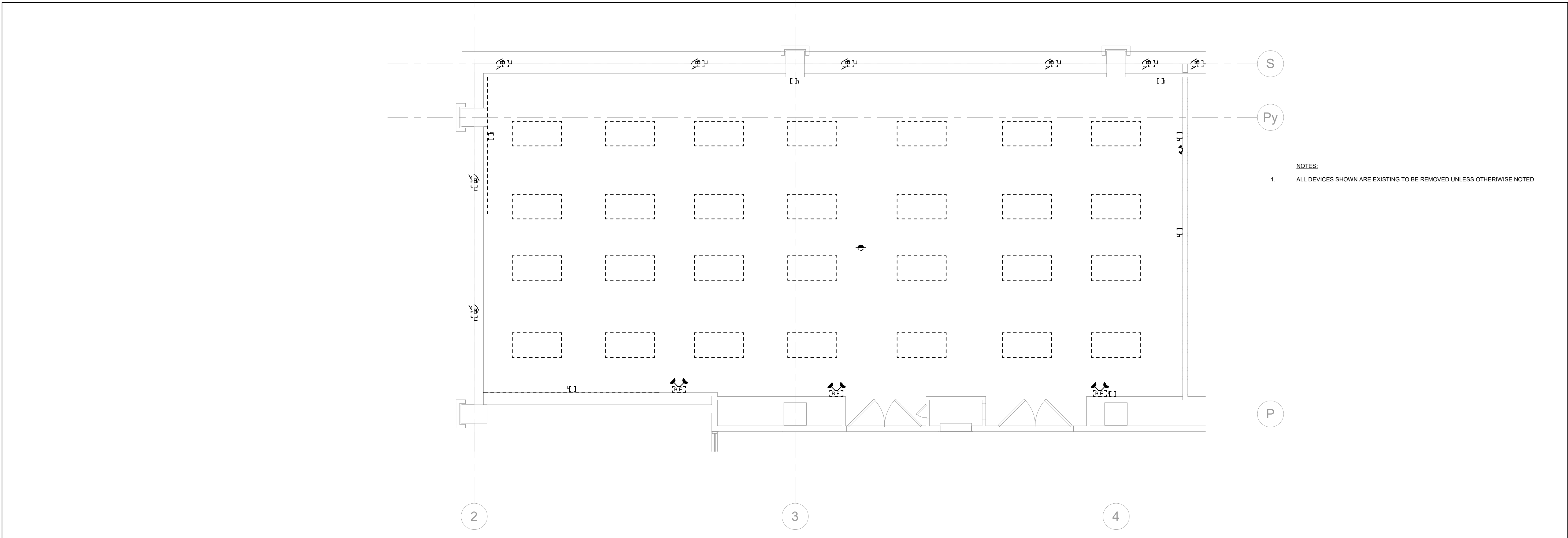
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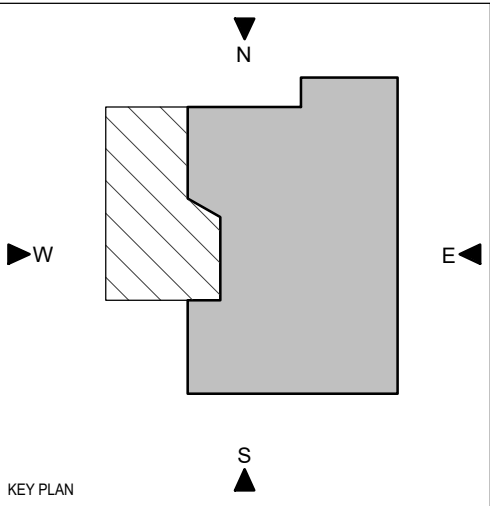
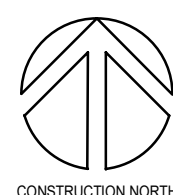


3
E-104
LEVEL 3 - POWER & SYSTEMS - LAB - DEMOLITION
1 : 50



2
E-104
LEVEL 3 - LIGHTING - LAB - DEMOLITION
1 : 50

PROJECT LOGO



KEY PLAN

6	ISSUED FOR TENDER	2025-11-27
5	ISSUED FOR 100% CD	2025-11-21
4	ISSUED FOR 90% CD	2025-10-17
3	ISSUED FOR PERMIT	2025-10-03
2	ISSUED FOR 100% DO R1	2025-09-19
1	ISSUED FOR 100% DO	2025-07-10
No.	DESCRIPTION	DATE

REVISIONS:

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CONSULTANTS:

MULVEY & BANANI

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416.724.9520 | mbl.com

PROJECT:

University of Toronto CQIC Suite and QIS Lab

University of Toronto,
27 King's College Cir,
Toronto, ON M5S 1A1

DRAWING TITLE:

**LAB DEMOLITION
ELECTRICAL PLANS**

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SCALE:

1 : 50

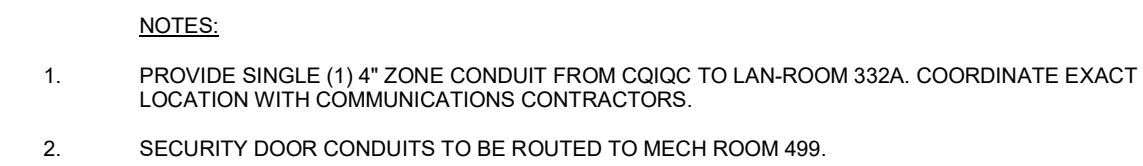
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DRAWING NO.:

E-104

DATE: 2025-11-27
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1
E-203



SEAL

CONSULTANTS:

90 Sheppard Avenue East, Suite 500, Toronto, ON M2N 3A1

University of Toronto,
27 King's College Cir,
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DRAWING TITLE:
ELECTRICAL PLANS - SUITE

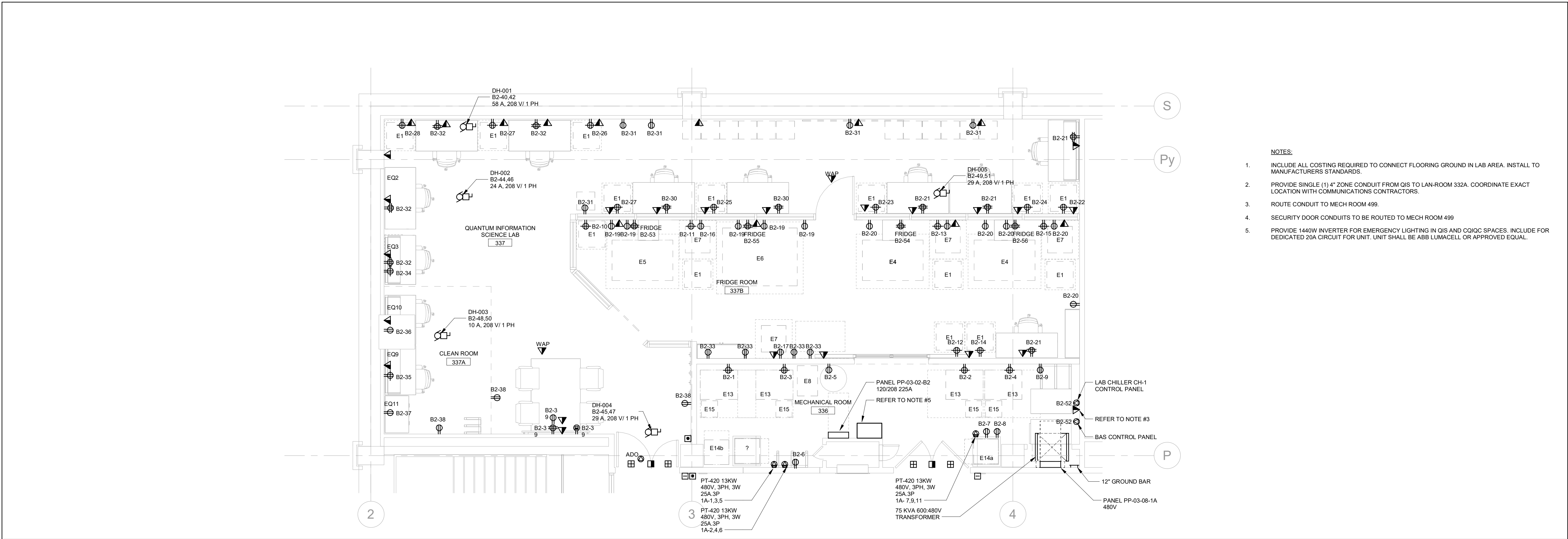
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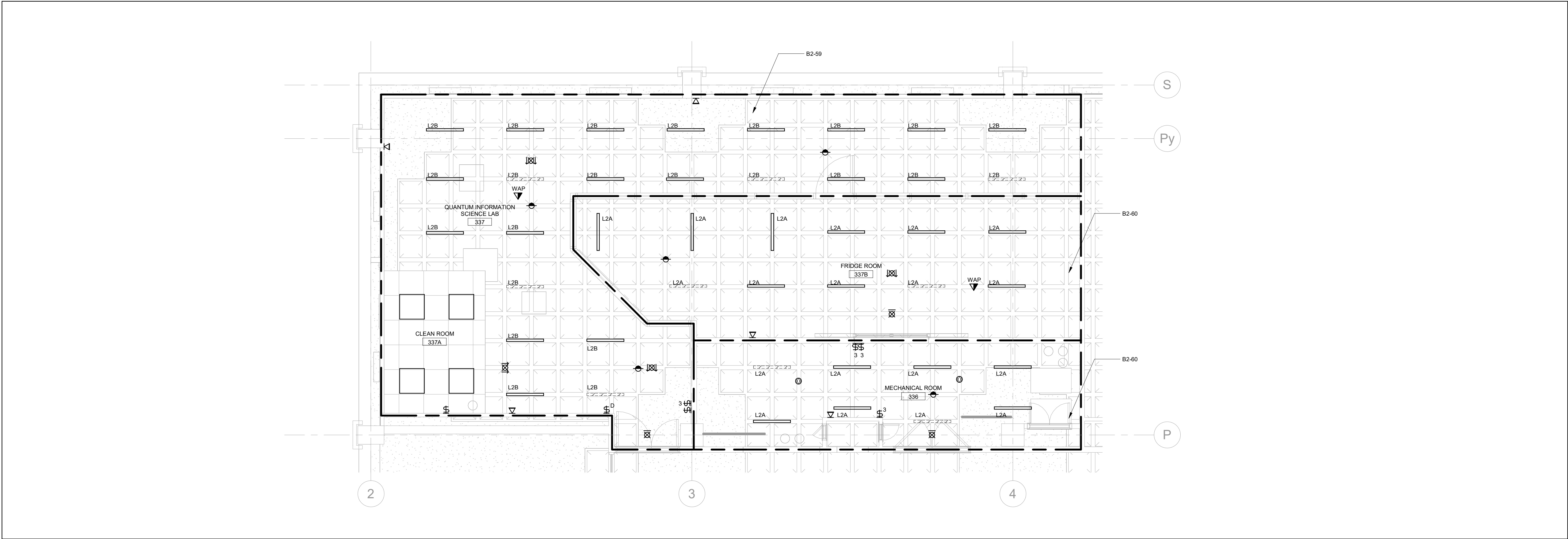
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2
E-203



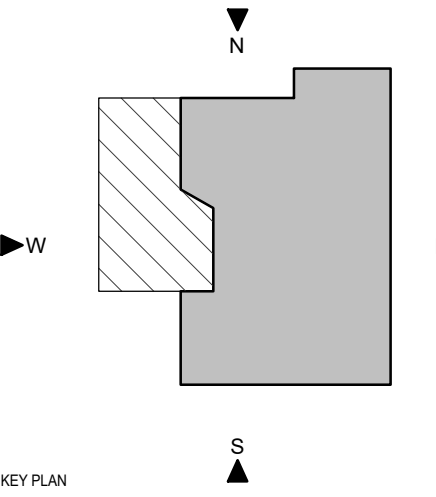
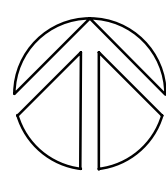
1
E-303
LEVEL 3 - POWER & SYSTEMS PLAN - LAB
1 : 50



2
E-303
LEVEL 3 - LIGHTING PLAN - LAB
1 : 50

- NOTES:
- INCLUDE ALL COSTING REQUIRED TO CONNECT FLOORING GROUND IN LAB AREA. INSTALL TO MANUFACTURERS STANDARDS.
 - PROVIDE SINGLE (1) 4" ZONE CONDUIT FROM QIS TO LAN-ROOM 332A. COORDINATE EXACT LOCATION WITH COMMUNICATIONS CONTRACTORS.
 - ROUTE CONDUIT TO MECH ROOM 499.
 - SECURITY DOOR CONDUITS TO BE ROUTED TO MECH ROOM 499
 - PROVIDE 1440W INVERTER FOR EMERGENCY LIGHTING IN QIS AND CQIQC SPACES. INCLUDE FOR DEDICATED 20A CIRCUIT FOR UNIT. UNIT SHALL BE ABB LUMACELL OR APPROVED EQUAL.

PROJECT LOGO



KEY PLAN

No.	DESCRIPTION	DATE
6	ISSUED FOR TENDER	2025-11-27
5	ISSUED FOR 100% CD	2025-11-21
4	ISSUED FOR 90% CD	2025-10-17
3	ISSUED FOR PERMIT	2025-10-03
2	ISSUED FOR 100% DO R1	2025-09-19
1	ISSUED FOR 100% DO	2025-07-10

REVISIONS:

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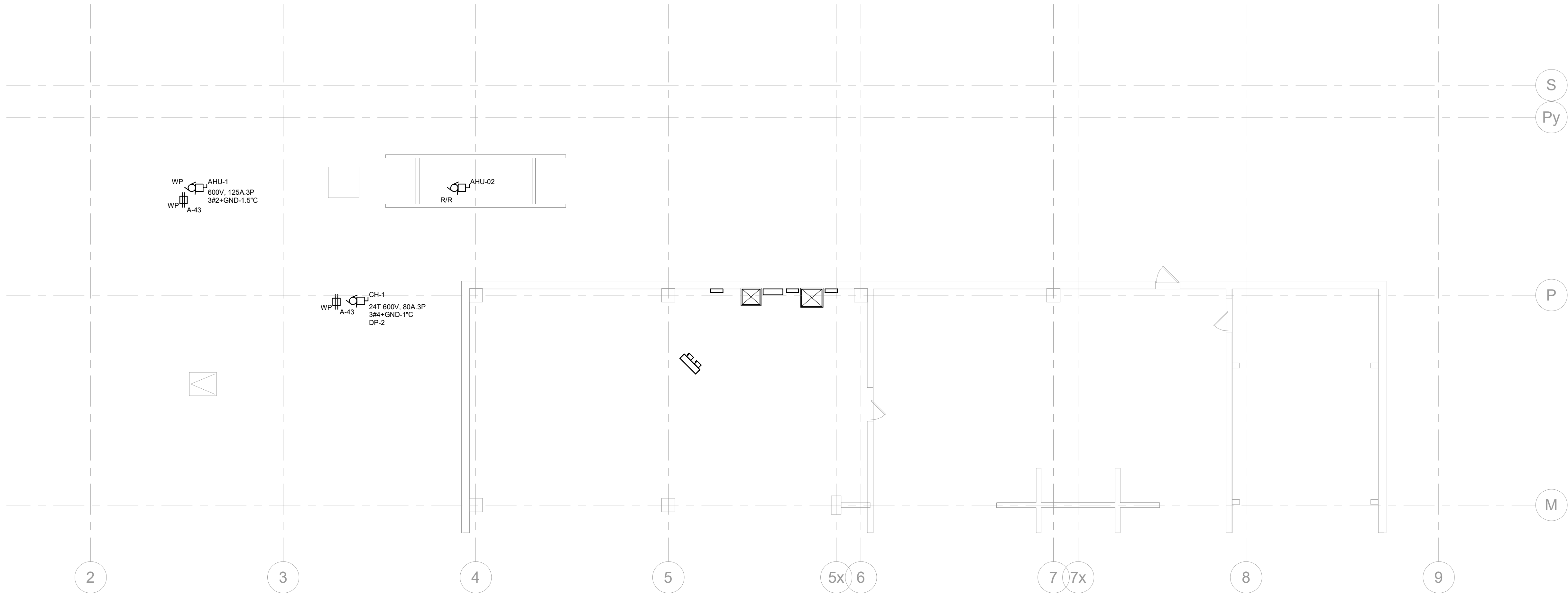
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Toronto, ON M5S 1A1

DRAWING TITLE:
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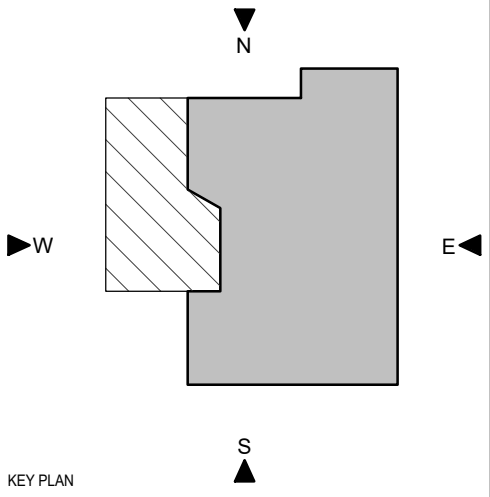
PROJECT NO: **251016**

DRAWING NO: **E-303**



NOTES:
1. REMOVE AND RE-INSTALL CONNECTION FOR ALLOW FOR AHU-02 REPLACEMENT.

PROJECT LOGO



REVISIONS		
No.	DESCRIPTION	DATE
6	ISSUED FOR TENDER	2025-11-27
5	ISSUED FOR 100% CD	2025-11-21
4	ISSUED FOR 90% CD	2025-10-17
3	ISSUED FOR PERMIT	2025-10-03
2	ISSUED FOR 100% DO R1	2025-09-19
1	ISSUED FOR 100% DO	2025-07-10

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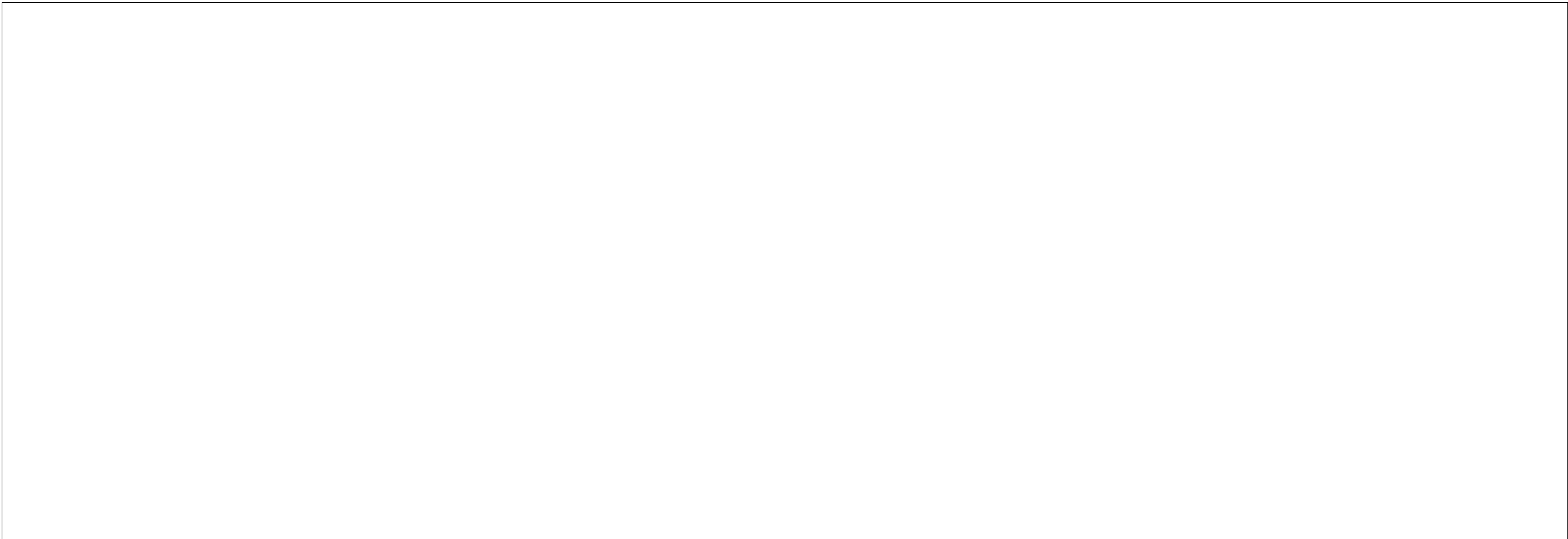
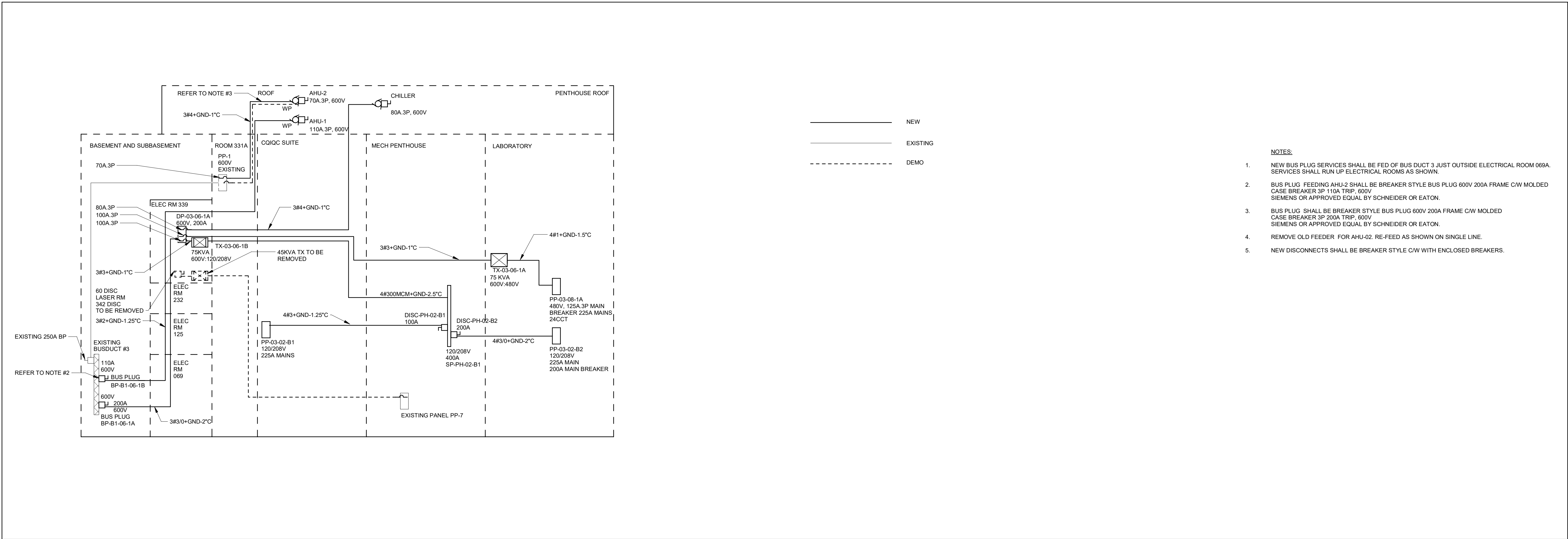
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ROOFTOP PLANS

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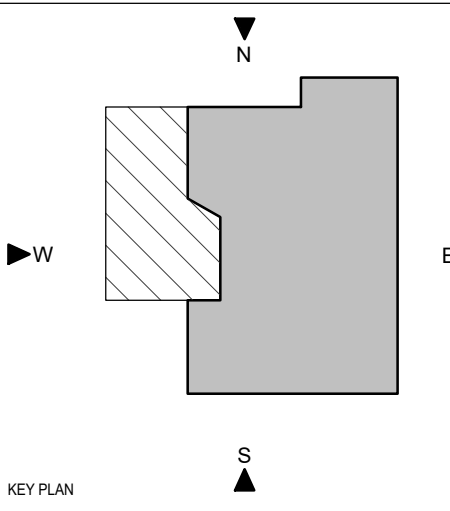
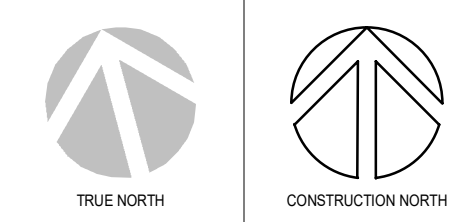
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DATE: 2025-11-27 2:28:55 PM
PROJECT: 251016
DRAWING: E-401
SHEET: 1 OF 1



PROJECT LOGO



- NOTES:**
- NEW BUS PLUG SERVICES SHALL BE FED OF BUS DUCT 3 JUST OUTSIDE ELECTRICAL ROOM 069A. SERVICES SHALL RUN UP ELECTRICAL ROOMS AS SHOWN.
 - BUS PLUG FEEDING AHU-2 SHALL BE BREAKER STYLE BUS PLUG 600V 200A FRAME C/W MOLDED CASE BREAKER 3P 110A TRIP, 600V SIEMENS OR APPROVED EQUAL BY SCHNEIDER OR EATON.
 - BUS PLUG SHALL BE BREAKER STYLE BUS PLUG 600V 200A FRAME C/W MOLDED CASE BREAKER 3P 200A TRIP, 600V SIEMENS OR APPROVED EQUAL BY SCHNEIDER OR EATON.
 - REMOVE OLD FEEDER FOR AHU-02. RE-FEED AS SHOWN ON SINGLE LINE.
 - NEW DISCONNECTS SHALL BE BREAKER STYLE C/W WITH ENCLOSED BREAKERS.

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5	ISSUED FOR 100% CD	2025-11-21
4	ISSUED FOR 90% CD	2025-10-17
3	ISSUED FOR PERMIT	2025-10-03
2	ISSUED FOR 100% DD R1	2025-09-19
1	ISSUED FOR 100% DD	2025-07-10
No.	DESCRIPTION	DATE

REVISIONS:

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CONSULTANTS:



PROJECT:
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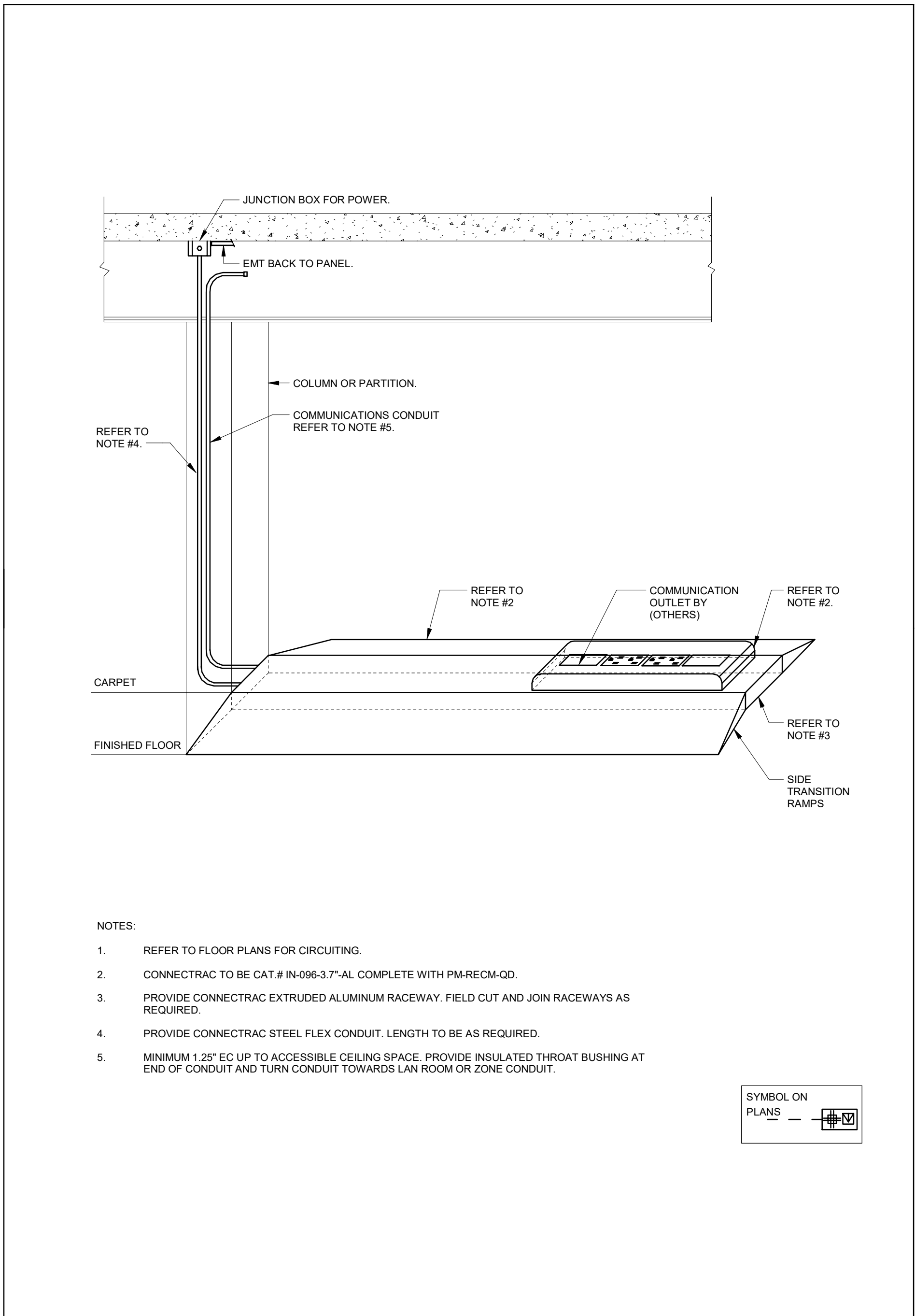
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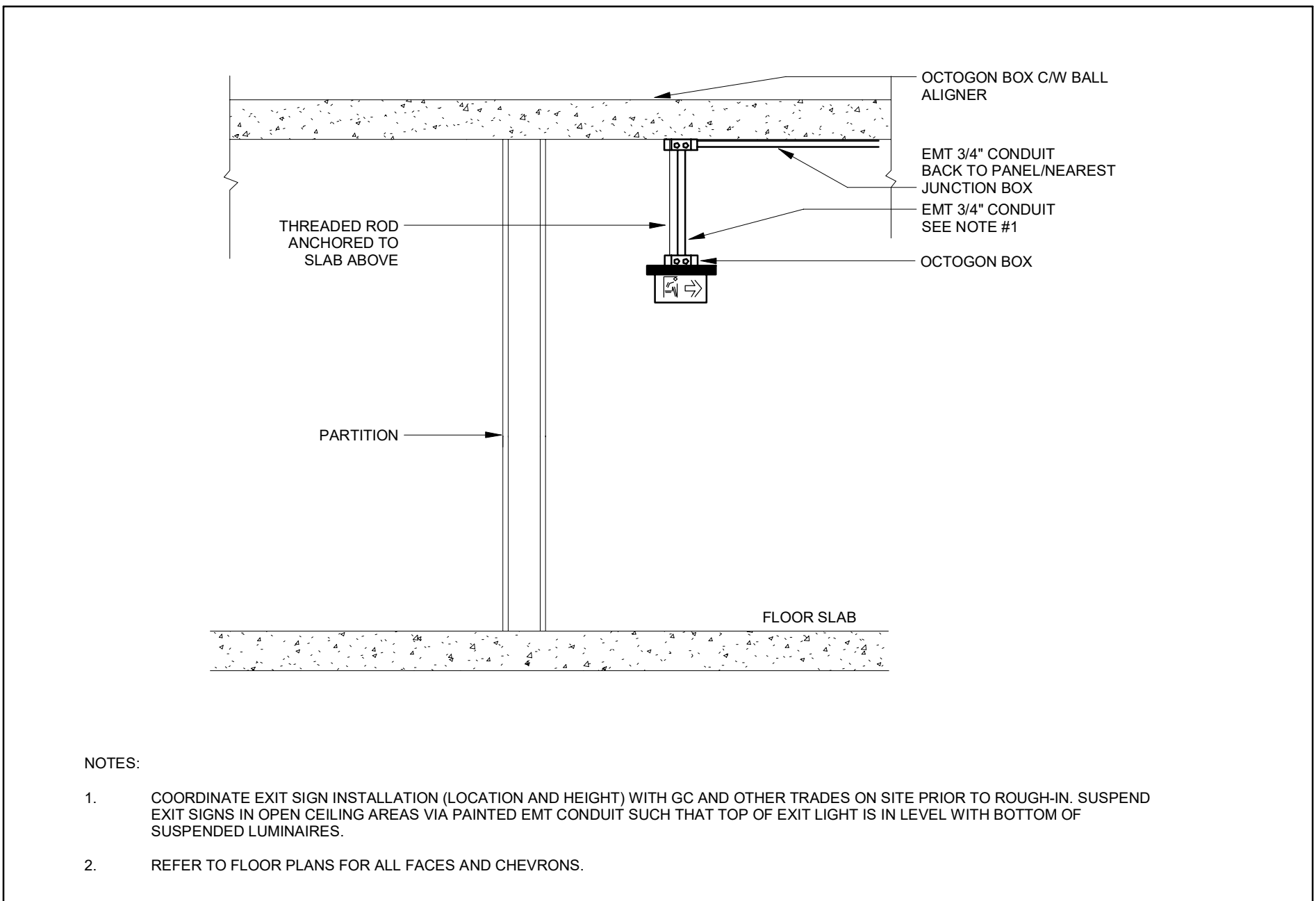
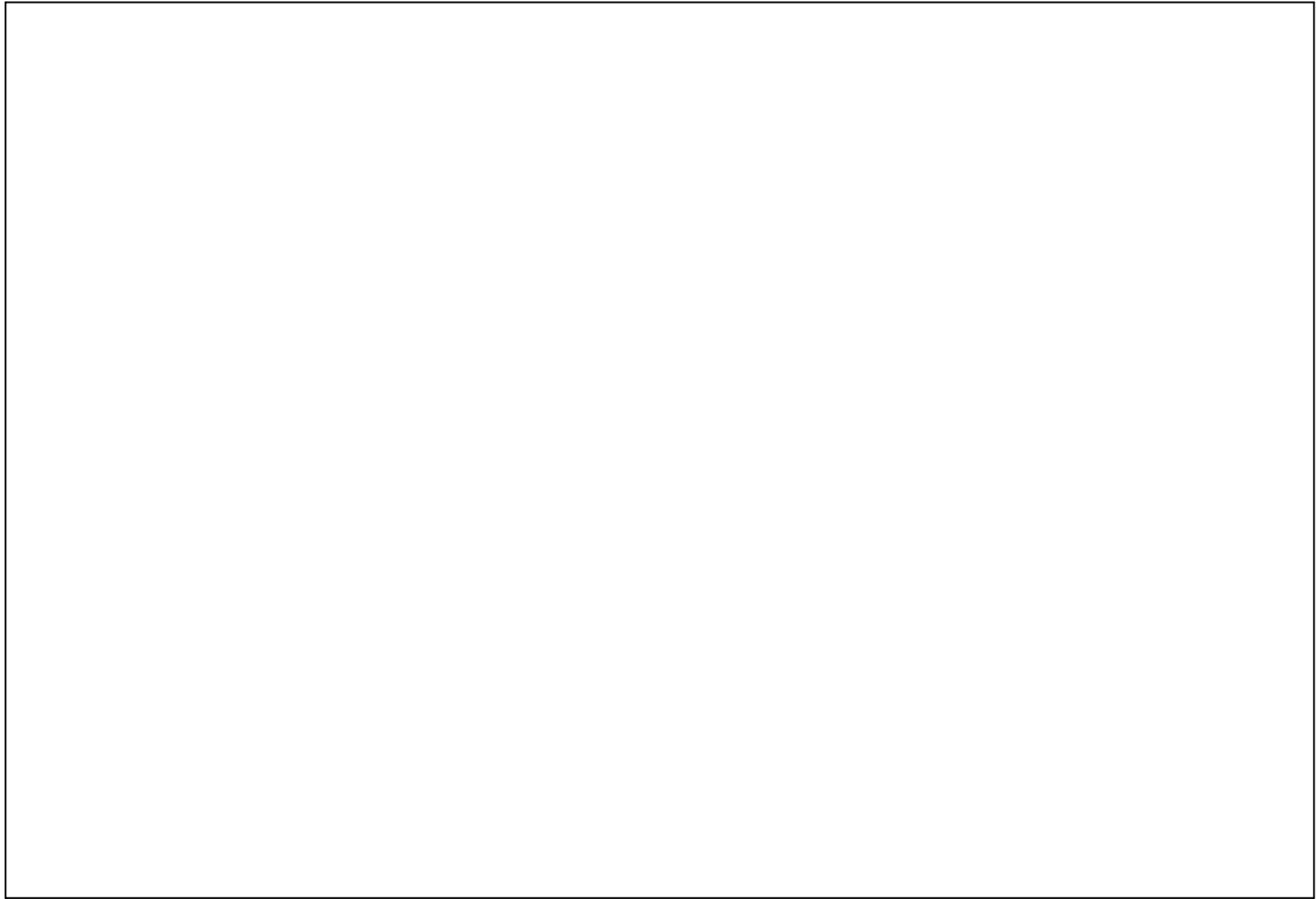
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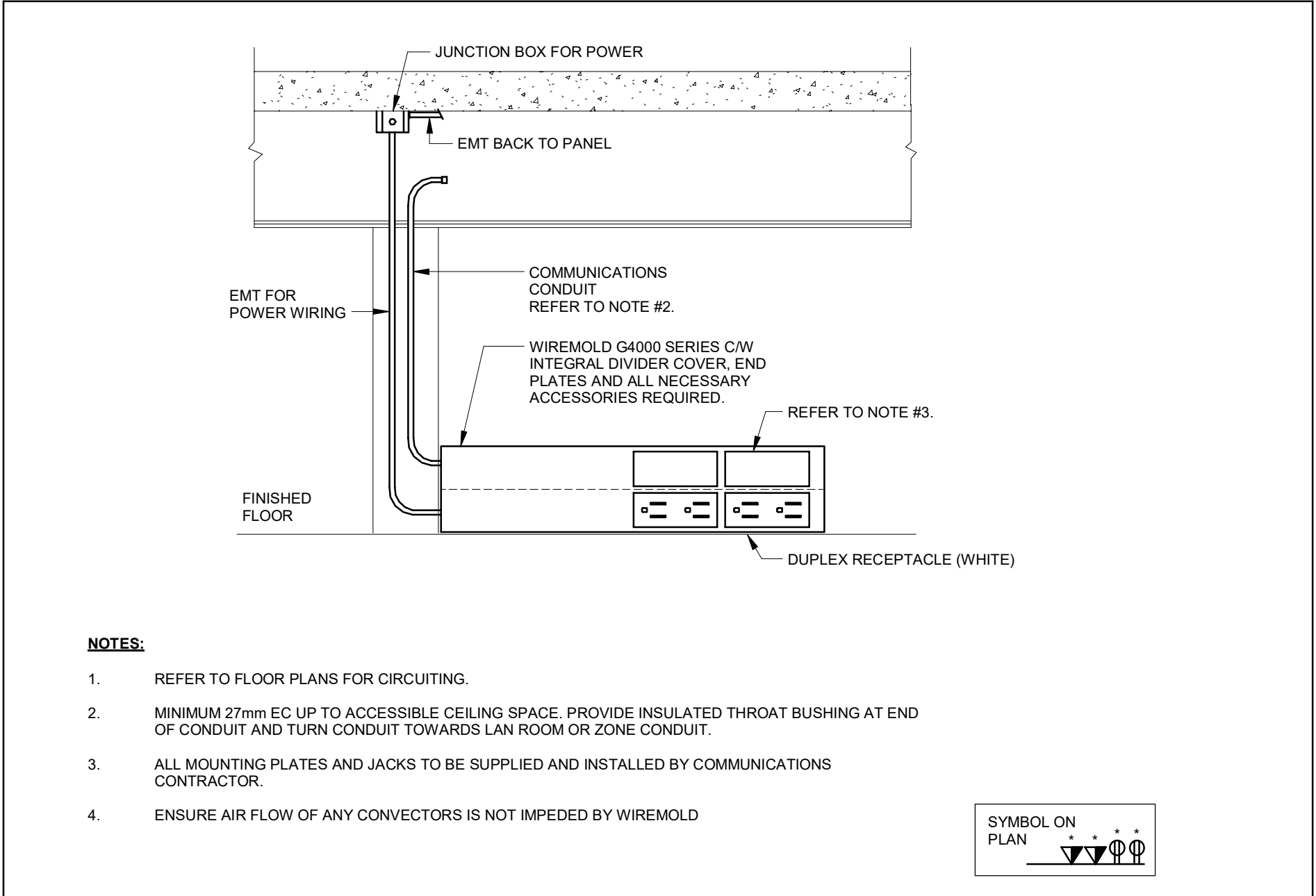
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CHECKED BY: P1078-34-109 QIS Lab and CQIQC Suite
APPROVED BY: P1078-34-109 QIS Lab and CQIQC Suite
PLOTTED BY: P1078-34-109 QIS Lab and CQIQC Suite
PLOT DATE: 2025-11-27 2:28:35 PM



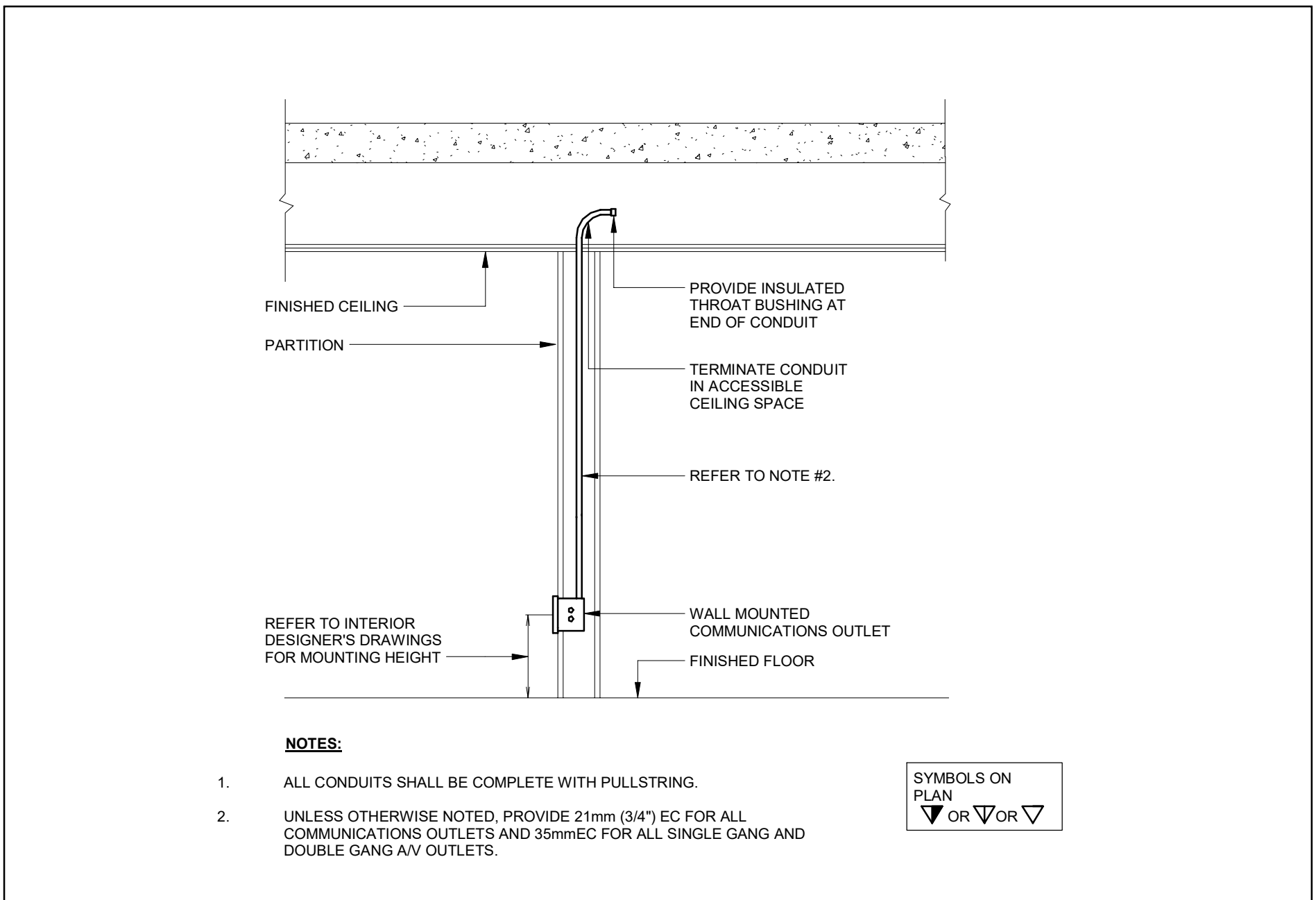
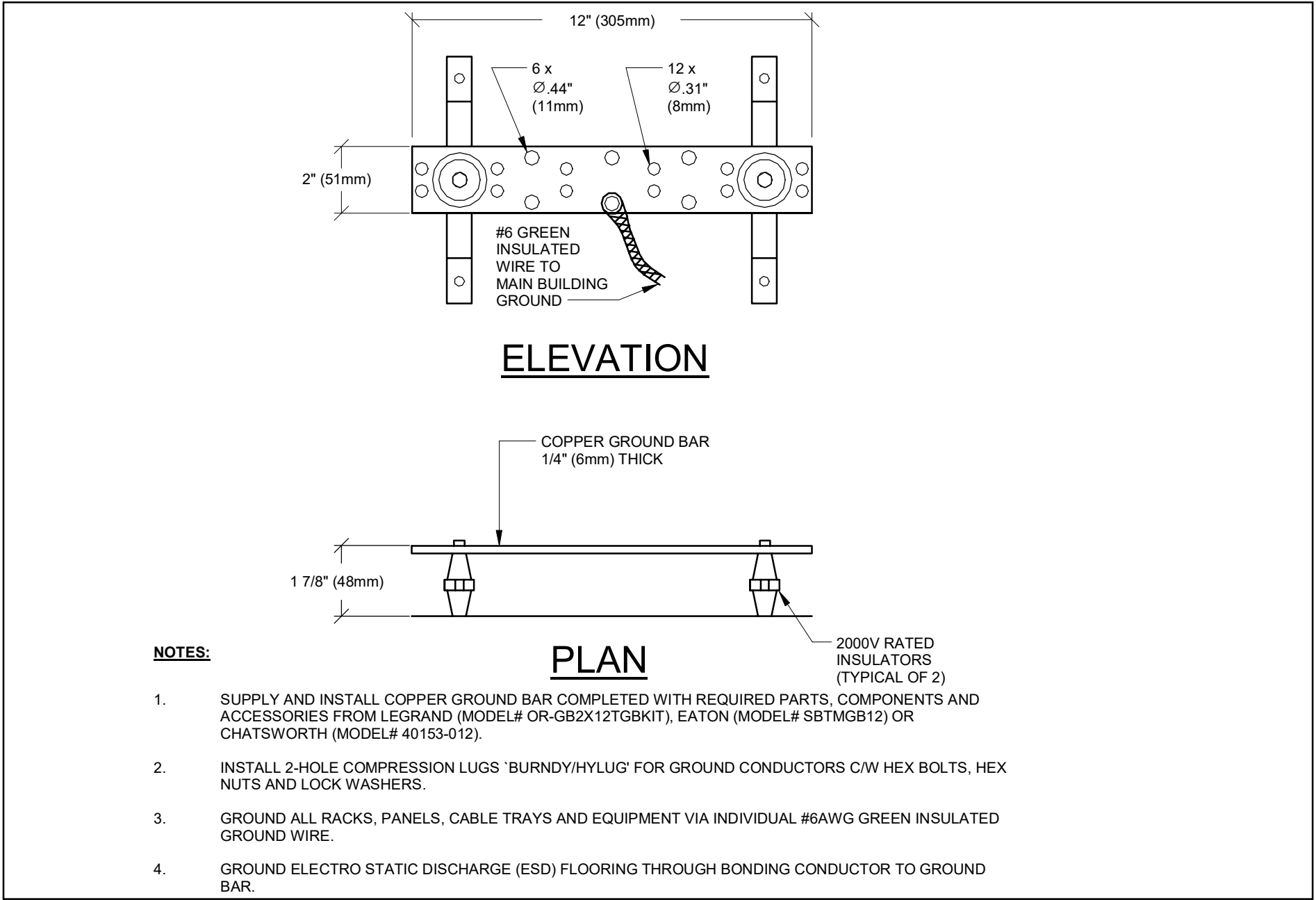
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E-601 UNDER CARPET RACEWAY C/W FLOOR BOX DETAIL
N.T.S.



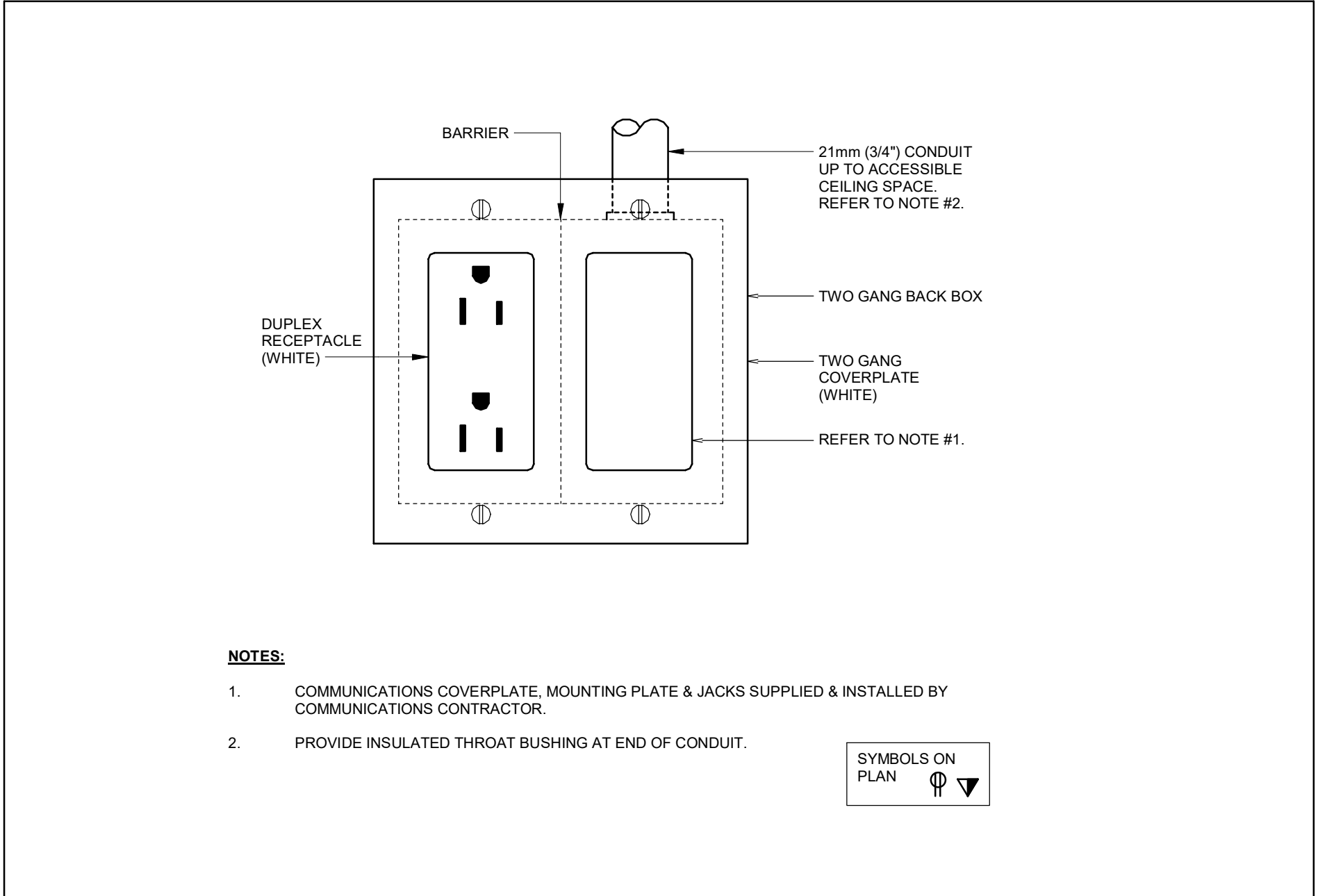
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E-601 PENDANT MOUNT EXIT SIGN DETAIL
N.T.S.



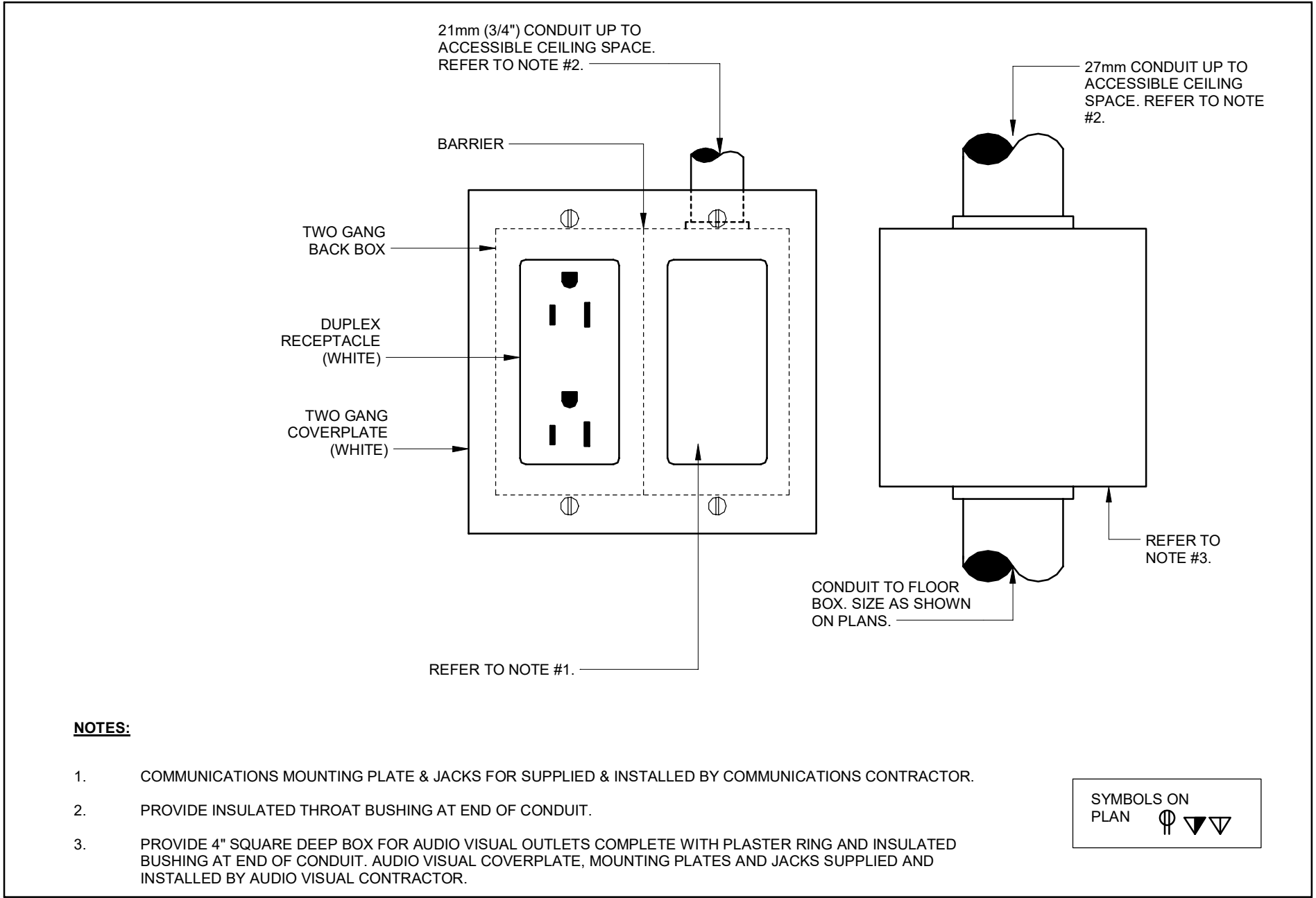
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E-601 TYPICAL WIREMOLD-MOUNTED OUTLETS DETAIL
N.T.S.



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E-601 TYPICAL SECTION OF COMMUNICATIONS WALL OUTLET
N.T.S.

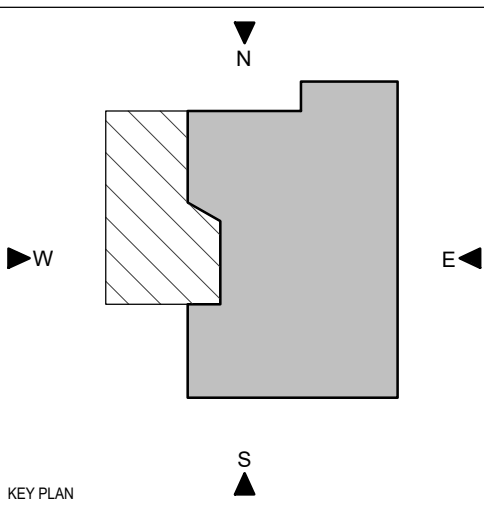


2
E-601 COMBO POWER/COMMUNICATION WALL OUTLET DETAIL
N.T.S.



3
E-601 COMBO POWER, COMMUNICATIONS, AV WALL OUTLET DETAIL
N.T.S.

PROJECT LOGO



KEY PLAN

No.	DESCRIPTION	DATE
6	ISSUED FOR TENDER	2025-11-27
5	ISSUED FOR 100% CD	2025-11-21
4	ISSUED FOR 90% CD	2025-10-17
3	ISSUED FOR PERMIT	2025-10-03
2	ISSUED FOR 100% DO R1	2025-09-19
1	ISSUED FOR 100% DO	2025-07-10

REVISIONS:

DISCREPANCIES MUST BE REPORTED IMMEDIATELY TO THE ARCHITECT / ENGINEER BEFORE PROCEEDING.

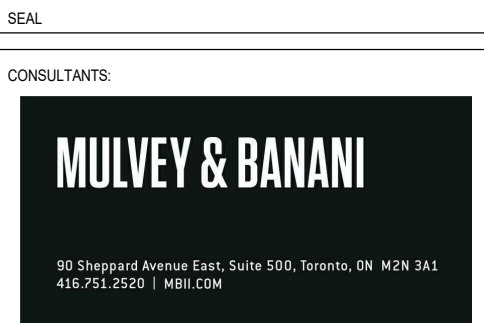
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PROJECT:
University of Toronto CQIC Suite and QIS Lab

University of Toronto,
27 King's College Cir,
Toronto, ON M5S 1A1

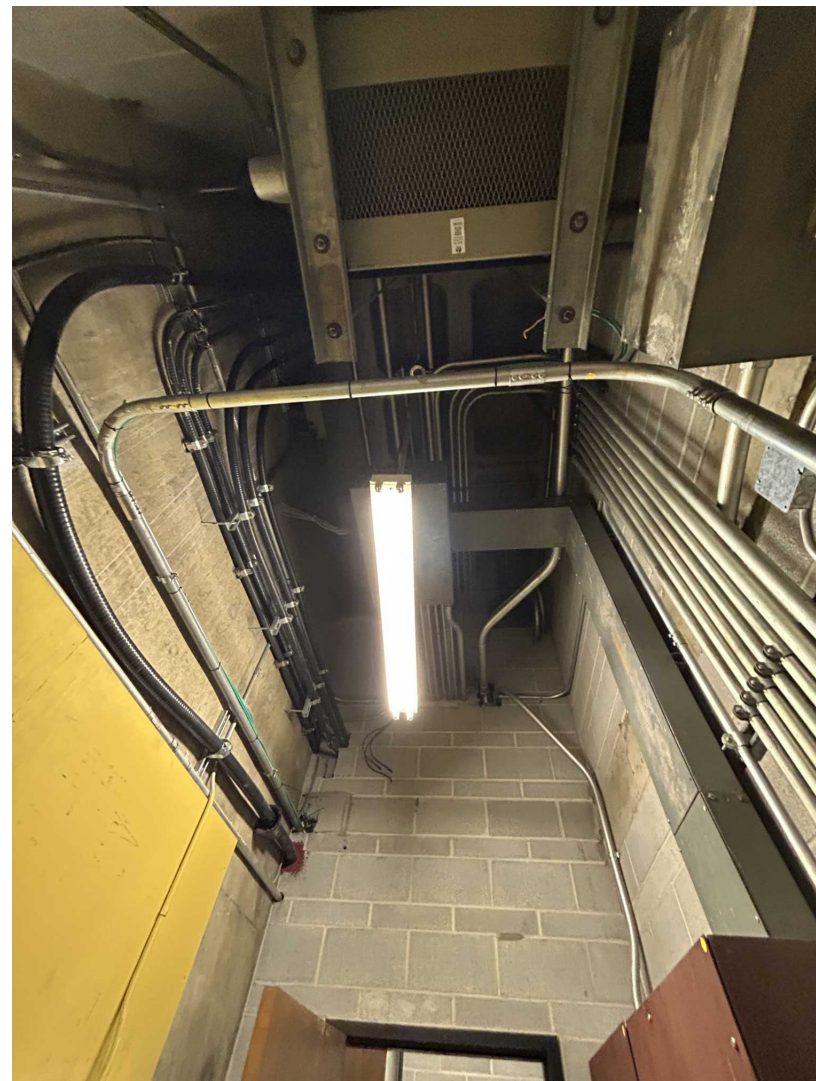
DRAWING TITLE:
ELECTRICAL DETAILS

SHEET SIZE: ARCH D (810x914) SCALE: 1:1

PROJECT NO: **251016**

DRAWING NO: **E-601**

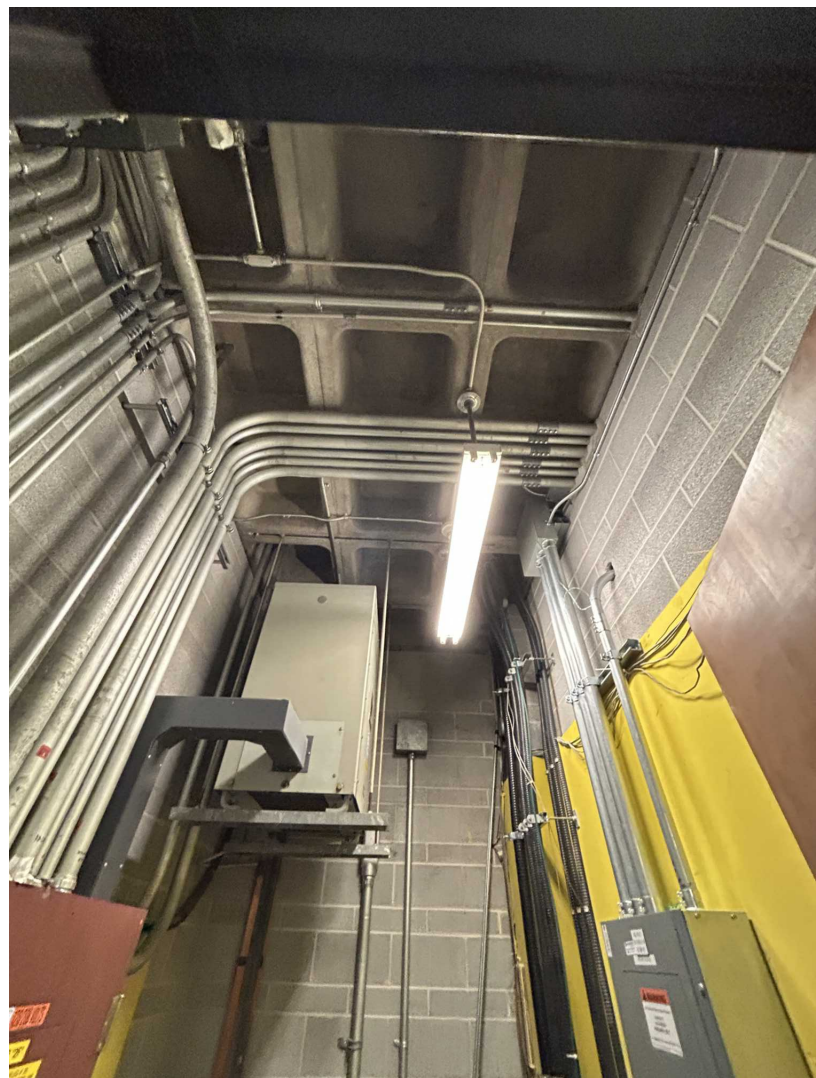
DATE: 2025-11-27
DRAWN BY: [Name]
CHECKED BY: [Name]
APPROVED BY: [Name]



4
E-602
ELEC ROOM 069A
N.T.S.



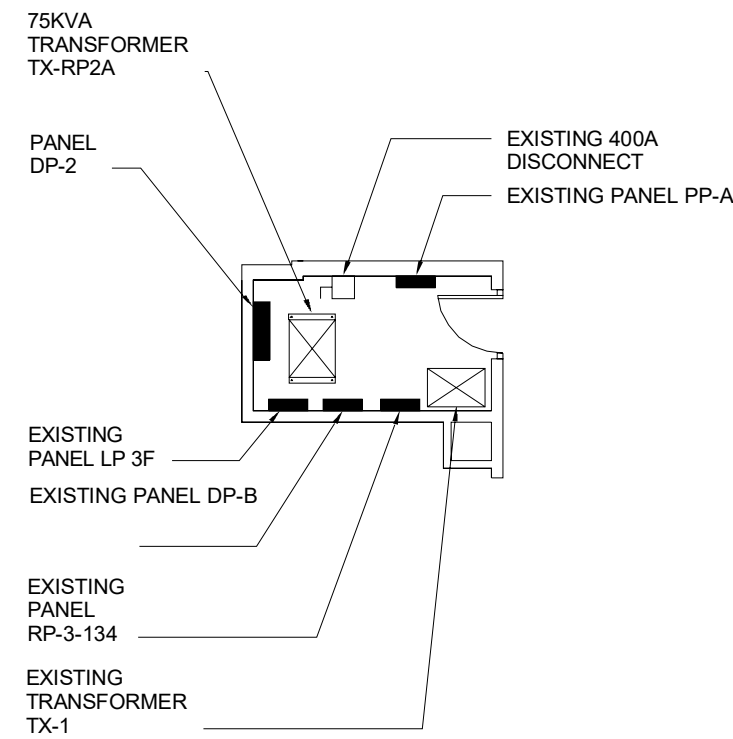
5
E-602
ELEC ROOM 125A
N.T.S.



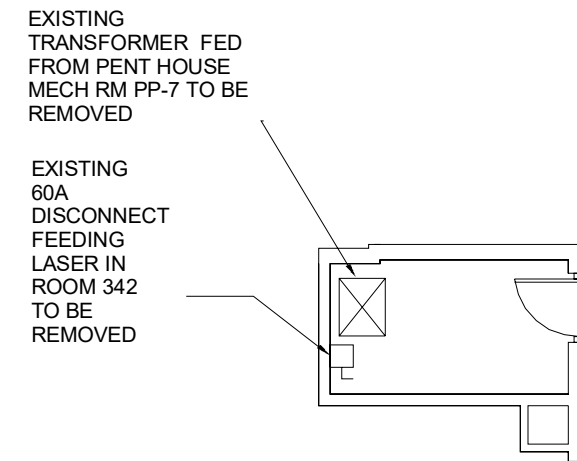
6
E-602
ELEC RM 232
N.T.S.



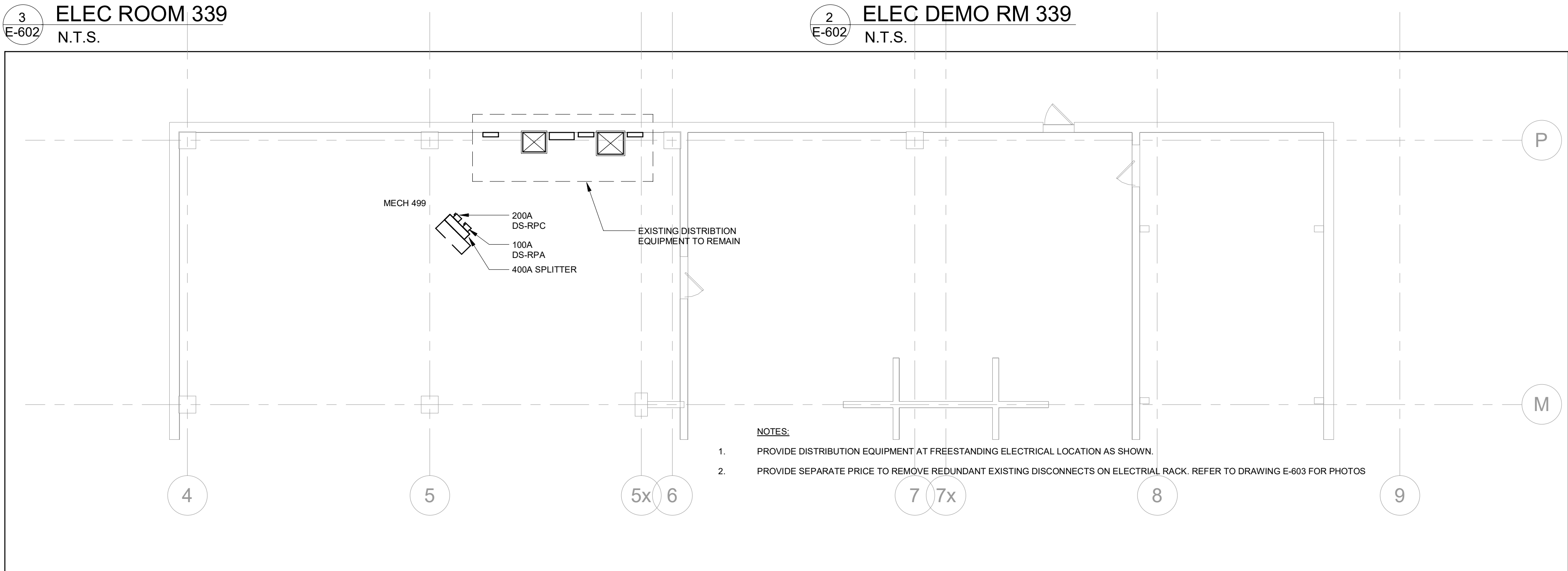
3
E-602
ELEC ROOM 339
N.T.S.



1
E-602
ELEC RM339
N.T.S.



2
E-602
ELEC DEMO RM 339
N.T.S.

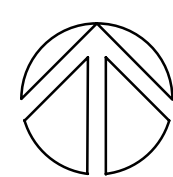


7
E-602
PENTHOUSE PLAN
N.T.S.

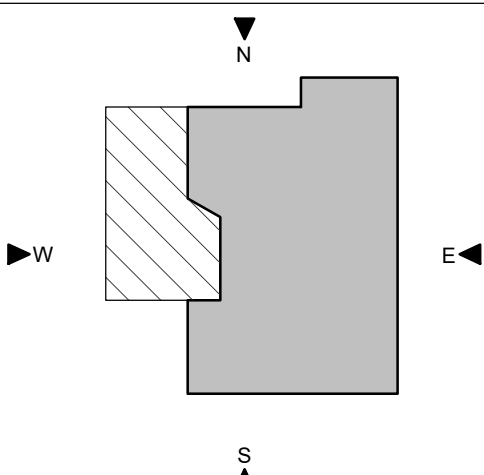
PROJECT LOGO



TRUE NORTH



CONSTRUCTION NORTH



KEY PLAN

No.	DESCRIPTION	DATE
6	ISSUED FOR TENDER	2025-11-27
5	ISSUED FOR 100% CD	2025-11-21
4	ISSUED FOR 90% CD	2025-10-17
3	ISSUED FOR PERMIT	2025-10-03
2	ISSUED FOR 100% DO R1	2025-09-19
1	ISSUED FOR 100% DO	2025-07-10

REVISIONS:

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CONSULTANTS

MULVEY & BANANI

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416.724.9220 | mbl.com

PROJECT:
University of Toronto CQIC Suite and QIS Lab

University of Toronto,
27 King's College Cir,
Toronto, ON M5S 1A1

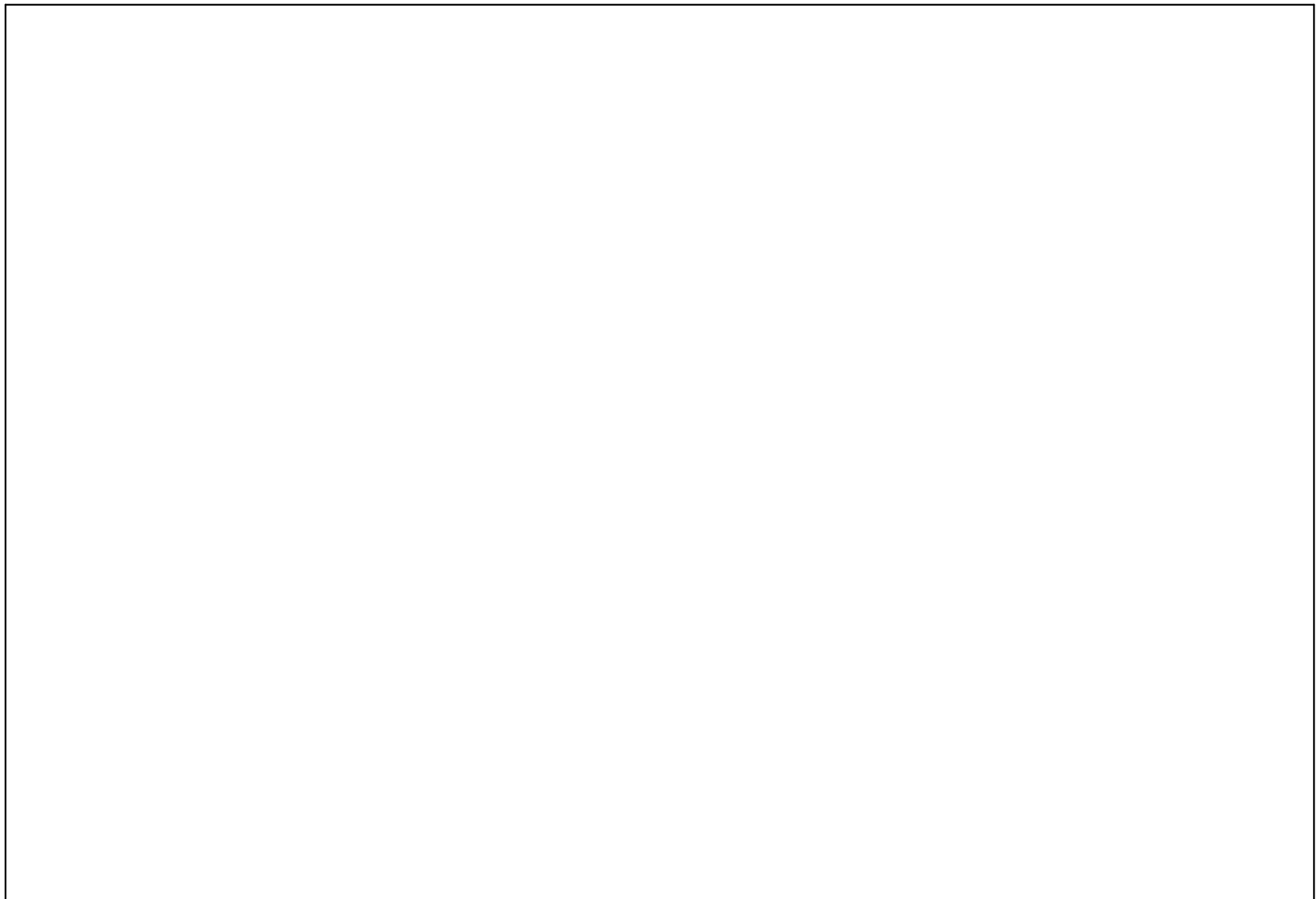
DRAWING TITLE:
**ELECTRICAL DETAIL
SERVICE ROOMS**

SHEET SIZE: ARCH D (810x914) SCALE: As Indicated

PROJECT NO: **251016**

DRAWING NO: **E-602**

DATE: 2025-11-27
DRAWN BY: P1078-34-109 QIS Lab and CQIC Suite
CHECKED BY: P1078-34-109 QIS Lab and CQIC Suite
APPROVED BY: P1078-34-109 QIS Lab and CQIC Suite

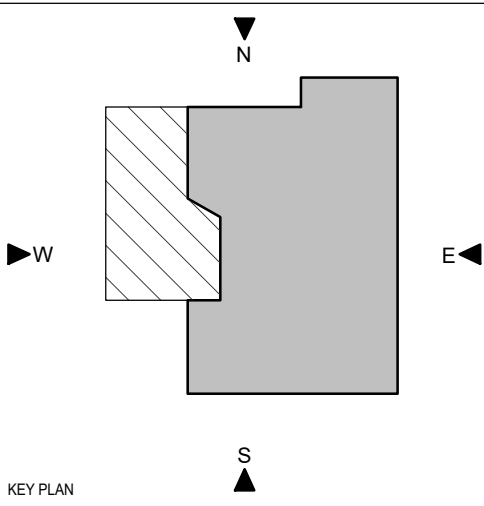


2 ELEC RACK FRONT MECH ROOM 499
E-603 N.T.S.



1 ELEC RACK BACK MECH ROOM 499
E-603 N.T.S.

PROJECT LOGO



KEY PLAN

6	ISSUED FOR TENDER	2025-11-27
5	ISSUED FOR 100% CD	2025-11-21
4	ISSUED FOR 90% CD	2025-10-17
3	ISSUED FOR PERMIT	2025-10-03
2	ISSUED FOR 100% DO R1	2025-09-19
1	ISSUED FOR 100% DO	2025-07-10
No.	DESCRIPTION	DATE

REVISIONS:

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CONSULTANTS:

MULVEY & BANANI

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416.724.9520 | mbl.com

PROJECT:
University of Toronto CQIC Suite and QIS Lab

UNIVERSITY OF TORONTO
27 King's College Cir,
Toronto, ON M5S 1A1

DRAWING TITLE:
**ELECTRICAL DETAIL
SERVICE ROOMS**

SHEET SIZE: ARCH D (810x914) SCALE: 1:500

PROJECT NO: **251016**

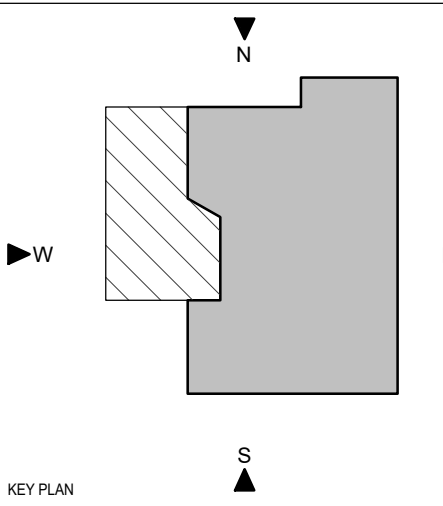
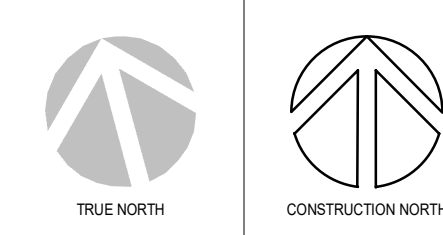
DRAWING NO: **E-603**

DATE: 2025-11-27
DRAWN BY: P07834-039 QIS Lab and CQIC Suite
CHECKED BY: J07834-039 QIS Lab and CQIC Suite
APPROVED BY: J07834-039 QIS Lab and CQIC Suite
PROJECT NO: 251016

EQUIPMENT SCHEDULE - QIS LAB						
WTWT	ROOM NO.	QUANTITY	DESCRIPTION	SUPPLIED	INSTALLED	COMMENTS
E1	337	8	EQ1 - MICROWAVE ELECTRICAL RACK	OWNER	GC	650MM W x 650MM D x 1800MM H
E1	337B	6	EQ1 - MICROWAVE ELECTRICAL RACK	OWNER	GC	650MM W x 650MM D x 1800MM H
E3	337B	1	EQ3 - SOLDERING FUME EXTRACTION	OWNER	GC	330MM W x 343MM D x 366MM H
E4	337B	2	EQ4 - DILUTION FRIDGE (DR) CRYOSTAT	OWNER	GC	1500MM W x 1000MM D x 2680MM H
E5	337B	1	EQ5 - TALL DILUTION FRIDGE CRYOSTAT	OWNER	GC	1500MM W x 1000MM D x 32800MM H
E6	337B	1	EQ6 - LARGE DILUTION FRIDGE CRYOSTAT	OWNER	GC	1840MM W x 1430MM D x 2680MM H (FUTURE EQUIPMENT)
E7	337B	4	EQ7 - DR CONTROL UNIT	OWNER	GC	610MM W x 656MM D x 1733MM H
E8	337B	1	EQ8 - LEAK CHECKER ON A CART	OWNER	GC	750MM W x 500MM D x 1000MM H
E13	336	4	EQ13 - DR GAS HANDLING SYSTEM (GHS)	OWNER	GC	921MM W x 726MM D x 2150MM H
E14	336	6	EQ14 - DR HELIUM COMPRESSOR #PT420	OWNER	GC	610MM W x 610MM D x 950MM H
E15	336	4	EQ15 - DR COLD TRAP (CT)	OWNER	GC	400MM W x 400MM D x 800MM H

LUMINIARE SCHEDULE		
TYPE	DISCRIPTION	LAMP
L1A	2X2 LED TROFFER	TYPE: LED WATTAGE: 27.2 COLOUR TEMP: 3500K CRI: 90 L70 (HOURS): LUMENS: 3000LM DISTRIBUTION:
	VOLTAGE (V): 120V. DRIVER/BALLAST: 0-10V DIMMABLE. FINISH: REFER TO DESIGNER'S DRAWINGS FOR FINISHES. NOTES: CATALOG SPEC: LUMENWERX - WHISPER LED LUMINOUS CENTER	
L1B	2X2 LED TROFFER	TYPE: LED WATTAGE: 18W COLOUR TEMP: 3500K CRI: 90 L70 (HOURS): LUMENS: 2000 DISTRIBUTION:
	VOLTAGE (V): 120V. DRIVER/BALLAST: 0-10V DIMMABLE. FINISH: REFER TO DESIGNER'S DRAWINGS FOR FINISHES. NOTES: CATALOG SPEC: LUMENWERX - WHISPER LED LUMINOUS CENTER	
L2A	SUSPENDEd LINEAR LED	TYPE: LED WATTAGE: 24 COLOUR TEMP:5000K CRI: 90+ L70 (HOURS): LUMENS:1000LMF DISTRIBUTION:
	VOLTAGE (V): 120V. DRIVER/BALLAST: 0-10V DIMMABLE. FINISH: REFER TO DESIGNER'S DRAWINGS FOR FINISHES. NOTES: REFER TO DESIGNER'S DRAWINGS FOR LENGTHS. CATALOG SPEC: SLOT 2 PENDANT DIRECT 90 CRI 50K	
L2B	SUSPENDEd LINEAR LED	TYPE: LED WATTAGE: 14 COLOUR TEMP:3500K CRI: 90+ L70 (HOURS): LUMENS:600LMF DISTRIBUTION:
	VOLTAGE (V): 120V. DRIVER/BALLAST: 0-10V DIMMABLE. FINISH: REFER TO DESIGNER'S DRAWINGS FOR FINISHES. NOTES: REFER TO DESIGNER'S DRAWINGS FOR LENGTHS. CATALOG SPEC: SLOT 2 PENDANT DIRECT 90 CRI 35K	
L3	4" LED ROUND DOWNLIGHT .	TYPE: LED WATTAGE: COLOUR TEMP:3500K CRI: 90+ L70 (HOURS): LUMENS: 1000 DISTRIBUTION:
	VOLTAGE (V): 120V. DRIVER/BALLAST: 0-10V DIMMABLE. FINISH: REFER TO DESIGNER'S DRAWINGS FOR FINISHES. NOTES: CATALOG SPEC: GOTHAM - IVO4 D 10LM 35K 90CRI MWD P AR LSS	
L4	UNDER CABINET LIGHTING	TYPE: LED WATTAGE: COLOUR TEMP:3500K CRI: L70 (HOURS): LUMENS: DISTRIBUTION:
	VOLTAGE (V): 120V. DRIVER/BALLAST: N/A. FINISH: REFER TO DESIGNER'S DRAWINGS FOR FINISHES. NOTES: CATALOG SPEC: SIGNIFY DAY-BRITE CFI LINC5100E L-XX-935-SWH-RSW	
L5	LED STRIP LIGHT	TYPE: LED WATTAGE: COLOUR TEMP:3500K CRI: L70 (HOURS): LUMENS: DISTRIBUTION:
	VOLTAGE (V): 120V. DRIVER/BALLAST: 0-10V DIMMABLE. FINISH: REFER TO DESIGNER'S DRAWINGS FOR FINISHES. NOTES: CATALOG SPEC: LITHONIA ZDL	

PROJECT LOGO



KEY PLAN

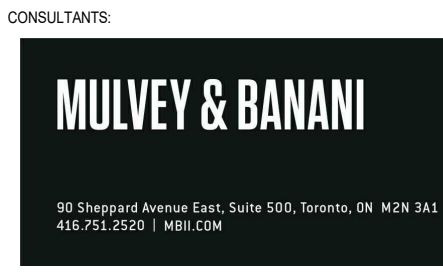
6	ISSUED FOR TENDER	2025-11-27
5	ISSUED FOR 100% CD	2025-11-21
4	ISSUED FOR 90% CD	2025-10-17
3	ISSUED FOR PERMIT	2025-10-03
2	ISSUED FOR 100% DD R1	2025-09-19
1	ISSUED FOR 100% DD	2025-07-10
No.	DESCRIPTION	DATE

REVISIONS:

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PROJECT:
University of Toronto CQIC Suite and QIS Lab

**University of Toronto,
27 King's College Cir,
Toronto, ON M5S 1A1**

DRAWING TITLE:
**ELECTRICAL EQUIPMENT
LIST AND LUMINAIRE
SCHEDULE**

SHEET SIZE:
ARCH D (810x914)

PROJECT NO.: **251016**

DRAWING NO.: **E-701**

DATE: 2025-11-27
DRAWN BY: [Redacted]
CHECKED BY: [Redacted]
APPROVED BY: [Redacted]
PLOT DATE: 2025-11-27 22:27:01 PM

BLDG #: 078

PANEL TAG:

DP--03-06-1A

DATE MODIFIED:

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
		0		100	1	A	2	100			0
		0	TX-03-06-1B		3	B	4	TX-03-06-1A			0
		0		3P	5	C	6	3P			0
18000	0.90	16200		80	7	A	8				0
18000	0.90	16200	ROOF TOP CHILLER		9	B	10				0
18000	0.90	16200		3P	11	C	12				0
		0			13	A	14				0
		0			15	B	16				0
		0			17	C	18				0
		0			19	A	20				0
		0			21	B	22				0
		0			23	C	24				0

BLDG:

78

FLOOR:

3

ROOM:

339

NEW TAG:

RATINGS:	A	V	3 PHASE	3 WIRE	S.C.:	22
-----------------	---	---	---------	--------	--------------	----

200 600

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	BP-B1-06-1A	078	CORRIDOR 68K	200	3#3/0+GND



Panel Tag:

DP--03-06-1A

PHASE	A	B	C	TOTAL
CONNECTED LOAD (VA)	18000	18000	18000	54000
DEMAND LOAD (VA)	16200	16200	16200	48600

MAXIMUM MEASURED LOAD	DATE	TIME	AMPS	KVA	AMPS	KVA	AMPS	KVA	TOTAL KVA	POWER R	TOTAL KW
									0		0
									0		0
									0		0
									0		0
									0		0
									0		0
									0		0
									0		0
									0		0

MAINTENANCE LOG	Date	Initials	Type

Date	Initials	Type

Types of Maintenance:

ET - Electrical Testing (NETA) | CL - Cleaning | CB - Cycling Breakers | BR (CCT#) - Breaker Replacement w/ CCT #

BLDG #:

078

PANEL TAG

PP-03-02-B1

DATE MODIFIED:

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT		CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)
600	0.70	420	Receptacles (Directors Office 331C)	15	1	A	2	15	Receptacles (Visitor's Office 331D)	1000	0.65	650
300	0.60	180	Receptacles (Directors Office 331C)	15	3	B	4	15	Convenience Outlets (331)	300	0.65	195
750	0.65	487.5	Receptacles (Student/PDO Office 331E)	15	5	C	6	15	Receptacles (Student/PDO Office 331E)	750	0.65	487.5
1200	0.65	780	Convenience Outlets (331B/E)	15	7	A	8	15	Receptacles (Admin office (331B)	500	0.65	325
800	0.80	640	Millwork outlets (331)	15	9	B	10	15	Outlets (Meeting room 331A)	1200	0.80	960
1200	0.65	780	Outlets (Serving 331)	15	11	C	12	15	Fridge Outlet (331)	1000	0.65	650
1200	0.65	780	Outlets (Serving 331)	15	13	A	14	15	Microwave outlet (331)	1200	0.65	780
76	0.70	53.2	FCU-1 (331A, 331B & 331C)	15	15	B	16	15				0
56	0.70	39.2	FCU-1 (331D & 331E)	15	17	C	18	15				0
				15	19	A	20	15				0
				15	21	B	22	15				0
		0		15	23	C	24	15				0
		0		15	25	A	26	15				0
		0		15	27	B	28	15				0
		0		15	29	C	30	15				0
		0		15	31	A	32	15				0
		0		15	33	B	34	15				0
		0		15	35	C	36	15				0
		0		15	37	A	38	15				0
		0		15	39	B	40	15	BATTERY UNIT			0
		0	LIGHTING	12	41	C	42	15	LIGHTING			0

BLDG:

78

FLOOR:

3

ROOM:

CQIQC

NEW TAG:

RATINGS:

100A

120/208V

3 PHASE

4 WIRE

S.C.:

14KA

FED
FROM:

PANEL TAG:

DISC-PH-02-B1

BLDG #:

078

ROOM #:

MECH PH

BREAKER SIZE:

60

FEEDER SIZE:

<div>Panel Tag:</div>		PP-03-02-B1									
		PHASE		A		B		C		TOTAL	
		CONNECTED LOAD (VA)		5700		2676		3756		12132	
		DEMAND LOAD (VA)		3735		2028.2		2444.2		8207.4	
MAXIMUM MEASURED LOAD	DATE	TIME	AMPS	KVA	AMPS	KVA	AMPS	KVA	TOTAL KVA	POWER FACTOR	TOTAL KW
									0		0
									0		0
									0		0
									0		0
									0		0
									0		0
									0		0
									0		0
									0		0
									0		0

MAINTENANCE LOG	Date	Initials	Type

Date	Initials	Type

Types of Maintenance:
ET - Electrical Testing (NETA) | CL - Cleaning | CB - Cycling Breakers | BR (CCT#) - Breaker Replacement w/ CCT #

BLDG #:			078	PANEL TAG	PP-03-02-B2					DATE MODIFIED:				
CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT		CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)		
		0	E13 (MECH ROOM 336)	20	1	A	2	20	E13 (MECH ROOM 336)			0		
		0	E13 (MECH ROOM 336)	20	3	B	4	20	E13 (MECH ROOM 336)			0		
		0	CONVENIENCE FRIDGE WALL (336)	15	5	C	6	15	CONVENIENCE FRIDGE WALL (336)			0		
		0	CONVENIENCE FRIDGE WALL (336)	15	7	A	8	15	CONVENIENCE FRIDGE WALL (336)			0		
		0	CONVENIENCE FRIDGE WALL (336)	15	9	B	10	20	EQ1 (FRIDGE ROOM 337B)			0		
		0	EQ1 (FRIDGE ROOM 337B)	20	11	C	12	20	EQ1 (FRIDGE ROOM 337B)			0		
		0	EQ1 (FRIDGE ROOM 337B)	20	13	A	14	20	EQ1 (FRIDGE ROOM 337B)			0		
		0	EQ1 (FRIDGE ROOM 337B)	20	15	B	16	15	E7 (FRIDGE ROOM 337B)			0		
		0	E7 (FRIDGE ROOM 337B)	15	17	C	18	15	E7 (FRIDGE ROOM 337B)			0		
		0	CONVENIENCE OUTLETS FRIDGE ROOM 337B	15	19	A	20	15	CONVENIENCE OUTLETS FRIDGE ROOM 337B			0		
		0	DESK (337B/337)	15	21	B	22	20	EQ1 (LAB 337)			0		
		0	EQ1 (LAB 337)	20	23	C	24	20	EQ1 (LAB 337)			0		
		0	EQ1 (LAB 337)	20	25	A	26	20	EQ1 (LAB 337)			0		
		0	EQ1 (LAB 337)	20	27	B	28	20	EQ1 (LAB 337)			0		
		0	EQ1 (LAB 337)	20	29	C	30	20	EQ-2 DESKS (337)			0		

Additional Circuits on Next Page

BLDG: 78 FLOOR: LAB ROOM: QIS NEW TAG: RP-A

RATINGS:	225	120/208V	3 PHASE	4 WIRE	S.C.:	14
-----------------	-----	----------	---------	--------	-------	----

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE:	FEEDER SIZE:
	DISC-PH-02-B2	078	336	200	4#3/0+GND

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT		CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)
		0	CONVENIENCE OUTLETS (LAB 337)	15	31	A	32	15	EQ-2 DESKS (337)			0
		0	CONVENIENCE OUTLETS (FRIDGE ROOM 337B)	15	33	B	34	20	EQ-3 SOLDERING STATION (337)			0
		0	EQ-9 (CLEAN ROOM 337A)	20	35	C	36	15	EQ-10 (CLEAN ROOM 337A)			0
		0	EQ-11 (CLEAN ROOM 337A)	15	37	A	38	15	CONVENIENCE 337			0
		0	AV-WALL (337)	15	39	B	40	60	DH-001	6000		0
		0			41	C	42	2P		6000		0
		0	WEATHER PROOF OUTLET ROOF	15	43	A	44	30	DH-002	2500		0
3000		0	DH-004	30	45	B	46	2P		2500		0
3000		0		2P	47	C	48	15	DH-003	1000		0
3000		0	DH-005	30	49	A	50	2P		1000		0
3000		0		2P	51	B	52		LAB CHILLER & BAS CONTROL PANELS	400		0
1300		0	FRIDGE ROOM QUAD RECEPTACLE		53	C	54		FRIDGE ROOM QUAD RECEPTACLES	1300		0
1300		0	FRIDGE ROOM QUAD RECEPTACLE		55	A	56		FRIDGE ROOM QUAD RECEPTACLES	1300		0
		0			57	B	58					0
		0	LIGHTING		59	C	60		LIGHTING			0

Panel Tag:		PP-03-02-B2									
PHASE		A		B		C		TOTAL			
CONNECTED LOAD (VA)		9100		14900		12600		36600			
DEMAND LOAD (VA)		0		0		0		0			
MAXIMUM MEASURED LOAD	DATE	TIME	AMPS	KVA	AMPS	KVA	AMPS	KVA	TOTAL KVA	POWER FACTOR	TOTAL KW
									0		0
									0		0
									0		0
									0		0
									0		0
									0		0
									0		0
									0		0
									0		0
									0		0

MAINTENANCE LOG	Date	Initials	Type

Date	Initials	Type

Types of Maintenance:
ET - Electrical Testing (NETA) | CL - Cleaning | CB - Cycling Breakers | BR (CCT#) - Breaker Replacement w/ CCT #

BLDG #:		078	PANEL TAG:		PP-03-08-1A					DATE MODIFIED:				
CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)	DESCRIPTION (Item, Room Number[s]):		BKR (A)	CT		CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):		CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)
4166	1.00	4166			25	1	A	2	25			4166	1.00	4166
4166	1.00	4166	EQ14 PT415			3	B	4		EQ14 PT415		4166	1.00	4166
4166	1.00	4166			3P	5	C	6	3P			4166	1.00	4166
4166	1.00	4166			25	7	A	8						
4166	1.00	4166	EQ14 PT415			9	B	10						
4166	1.00	4166			3P	11	C	12						
		0				13	A	14						0
		0				15	B	16						0
		0				17	C	18						0
		0				19	A	20						0
		0				21	B	22						0
		0				23	C	24						0
BLDG:			78		FLOOR:	3		ROOM:	LAB	NEW TAG:				

RATINGS:	250	480V	3 PHASE	4 WIRE	S.C.:	22KA
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FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	TX-06-06-1A	078	QIS MECH RM	125	4#1+GND

Panel Tag:		PP-03-08-1A									
		PHASE		A		B		C		TOTAL	
		CONNECTED LOAD (VA)		12498		12498		12498		37494	
		DEMAND LOAD (VA)		12498		12498		12498		37494	
DATE		TIME	AMPS	KVA	AMPS	KVA	AMPS	KVA	TOTAL KVA	POWER FACT	TOTAL KW
MAXIMUM MEASURED LOAD									0		0
									0		0
									0		0
									0		0
									0		0
									0		0
									0		0
									0		0
									0		0
									0		0

MAINTENANCE LOG	Date	Initials	Type

Date	Initials	Type

Types of Maintenance:
ET - Electrical Testing (NETA) | CL - Cleaning | CB - Cycling Breakers | BR (CCT#) - Breaker Replacement w/ CCT #

BLDG #: 078 PANEL TAG PP-1 DATE MODIFIED:

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)
		0	MAIN BREAKER (EXISTING)	500	1	A	2	SPARE (EXISTING)			0
	0.60	0			3	B	4				0
		0			5	C	6				0
		0	PRE-HEAT COIL	100	7	A	8	AIR CONDITIONER (TO REMOVED)			0
		0			9	B	10				0
		0			11	C	12				0
		0	078-NTX-PH-06-BC (EXISTING)	60	13	A	14	600 VOLT LASER			0
		0			15	B	16				0
		0			17	C	18				0
		0	AHU-2 PENTHOUSE ROOF	70	19	A	20				0
		0			21	B	22				0
		0			23	C	24				0
		0		15	25	A	26				0
		0		15	27	B	28				0
		0		15	29	C	30				0
		0		15	31	A	32				0
		0		15	33	B	34				0
		0		15	35	C	36				0
		0		15	37	A	38				0
		0		15	39	B	40	BATTERY UNIT			0
		0	LIGHTING	12	41	C	42	LIGHTING			0

BLDG: 78 FLOOR: 3 ROOM: 331A NEW TAG:

RATINGS:	600A	600V	3 PHASE	3WIRE	S.C.:
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FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE:	FEEDER SIZE:
	078-NBP-B1-06-B1	078	CORR 68K	250A	250MCM CU

Panel Tag:		PP-1										
		PHASE		A		B		C		TOTAL		
CONNECTED LOAD (VA)		0		0		0		0				
DEMAND LOAD (VA)		0		0		0		0				
DATE		TIME		AMPS	KVA	AMPS	KVA	AMPS	KVA	TOTAL KVA	POWER FACTOR	TOTAL KW
MAXIMUM MEASURED LOAD										0		0
										0		0
										0		0
										0		0
										0		0
										0		0
										0		0
										0		0
										0		0
										0		0

MAINTENANCE LOG	Date	Initials	Type	Date	Initials	Type

Types of Maintenance:
 ET - Electrical Testing (NETA) | CL - Cleaning | CB - Cycling Breakers | BR (CCT#) - Breaker Replacement w/ CCT #