

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FLUSH MOUNTED SINGLE TUB PANEL RATING AS NOTED ON SINGLE LINEPANELS SCHEDULE		FLUSH MOUNTED DOUBLE TUB PANEL RATING AS NOTED ON SINGLE LINEPANELS SCHEDULE
	SURFACE MOUNTED DOUBLE TUB PANEL RATING AS NOTED ON SINGLE LINEPANELS SCHEDULE		TRANSFORMER (SIZE NOTED ON SINGLE LINE DIAGRAM)
	DISCONNECT		COMBINATION MANUAL STARTER WITH INTEGRAL DISCONNECT
	COMBINATION STARTER WITH INTEGRAL DISCONNECT		DIRECT CONNECTION
	DIRECT CONNECTION CW DISCONNECT		MOTOR AND DISCONNECT
	MOTOR AND RELAY DISCONNECT		MOTOR AND COMBINATION STARTER WITH INTEGRAL DISCONNECT
	VARIABLE FREQUENCY DRIVE AND VFD CABLE CONNECTION TO MOTOR, LINE AND LOAD SIDE WIRING OF HARMONIC FILTER AND VFD BY ELECTRICAL CONTRACTOR, MOTOR AND HARMONIC FILTER SUPPLIED BY MECHANICAL DIVISION		VARIABLE FREQUENCY DRIVE, LINE AND LOAD SIDE WIRING OF HARMONIC FILTER AND VFD BY ELECTRICAL CONTRACTOR, LINE SIDE WIRING OF VFD TO VFD CABLE, VFD AND HARMONIC FILTER SUPPLIED BY MECHANICAL DIVISION
	HARMONIC FILTER (SUPPLIED BY MECH. CONTRACTOR UNLESS NOTED OTHERWISE) LINE AND LOAD SIDE WIRING OF HARMONIC FILTER BY ELECTRICAL CONTRACTOR		

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

10 POWER LEGEND 2 OF 2 N.T.S

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ISOLATION TRANSFORMER - DELTA-WYE UNLESS OTHERWISE NOTED		GROUND FAULT ALARM RELAY
	ISOLATION TRANSFORMER WITH ELECTROSTATIC SHIELD - DELTA-WYE UNLESS OTHERWISE NOTED		ENERGY GENERATOR
	MOLDED CASE CIRCUIT BREAKER, SIZE AS SHOWN		GROUND CONNECTION POINT
	LOW VOLTAGE BREAKOUT CIRCUIT BREAKER, TRIP PLUG AND FRAME SIZE AS SHOWN		ELECTRONIC TRIP SETTING CONTROL (GROUND FAULT)
	DRAW-OUT VACUUM CIRCUIT BREAKER, PROTECTIVE RELAY FUNCTIONS AND FRAME SIZE AS SHOWN		GROUND LOOP
	FUSIBLE LOAD BREAK ISOLATION SWITCH, VOLTAGE, FUSE AND FRAME SIZE AS SHOWN		HIGH RESISTANCE GROUND FAULT SYSTEM
	FUSE		LIGHTNING SURGE ARRESTOR
	INSULATED CASE CIRCUIT BREAKER		LOAD BANK
	INTEGRAL BREAKER AND STARTER UNIT, BREAKER AND FRAME SIZE AS SHOWN		ELECTRONIC TRIP SETTING CONTROL (LONG SHORT, INSTANTANEOUS, GROUND FAULT)
	INTEGRAL SWITCH AND FUSE UNIT, FUSE AND FRAME SIZE AS SHOWN		ELECTRONIC TRIP SETTING CONTROL (LONG SHORT)
	LOAD BREAK ISOLATION SWITCH, VOLTAGE AND FRAME SIZE AS SHOWN		ELECTRONIC TRIP SETTING CONTROL (LONG SHORT, INSTANTANEOUS, GROUND FAULT)
	AUTOMATIC TRANSFER SWITCH WITH BY-PASS		METERING CABINET
	AUTOMATIC TRANSFER SWITCH WITHOUT BY-PASS		DIGITAL ELECTRONIC METER
	FIRE PUMP AUTOMATIC TRANSFER SWITCH AND STARTER UNIT BY OTHERS		SURGE PROTECTION DEVICE
	MANUAL TRANSFER SWITCH OR DOUBLE THROW SWITCH		
	AMMETER		
	AUTO-TRANSFORMER		
	BATTERY		
	CONTACTOR		
	CURRENT TRANSFORMER		
	CURRENT TRANSFORMER (Z.S. - DENOTES ZERO SEQUENCE)		

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

11 SINGLE LINE DIAGRAM 1 OF 2 N.T.S

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	POTENTIAL TRANSFORMER		KEY INTERLOCK SYSTEM - ONE KEY
	ZERO SEQUENCE CURRENT TRANSFORMER		KEY INTERLOCK SYSTEM - ALL LOCKS, N.Y.S. UNLESS NOTED OTHERWISE
	UPS DIODE		ELECTRONIC INTERLOCK SYSTEM - N LOCK
	VOLTAGE INDICATOR		MINIMUM VOLTAGE CABLE TERMINATION POINT WITH STRESS CONE
	TRANSFORMER DENOTES CONNECT TO LOAD APPLIED TO DERIVATIVE TRANSFORMER TEMPERATURE RELAY		POWER METER
	AUTOMATIC POWER FACTOR CORRECTION CAPACITOR BANK, SIZE AS SHOWN, COMPLETE WITH TUNED RNP FILTER, NON-RESISTIVE OVERCURRENT RESISTOR, MAXIMUM CONTINUOUS AMPS AS SHOWN		DIGITAL TRIP UNIT WITH METERING FUNCTION
	RELAY FUNCTION NUMBER		SHUNT TRIP
			B BUS GATEWAY FOR POWER MONITORING

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

12 SINGLE LINE DIAGRAM 2 OF 2 N.T.S

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SINGLE POLE LINE VOLTAGE LIGHT SWITCH		2 GANG - LINE VOLTAGE LIGHT SWITCH
	3 GANG - LINE VOLTAGE LIGHT SWITCH		3 WAY - LINE VOLTAGE LIGHT SWITCH
	4 WAY - LINE VOLTAGE LIGHT SWITCH		LOW VOLTAGE LIGHT SWITCH
	KEY OPERATED LINE VOLTAGE SWITCH		MASTER SWITCH
	ALL-OFF SWITCH		SINGLE POLE 347V SWITCH
	DIMMER TYPE TO SUIT LOAD		CEILING MOUNTED PHOTO CELL SWITCH
	WALL MOUNTED PHOTO CELL SWITCH		DAY LIGHT PHOTO SENSOR
	TIME SWITCH		CEILING MOUNTED OCCUPANCY SENSOR
	WALL MOUNTED OCCUPANCY SENSOR		WALL MOUNTED OCCUPANCY SENSOR TYPE DENOTED BY 'X' REFER TO OCCUPANCY SENSOR SCHEDULE
	LIGHTING CONTROL MODULE		MULTI-ZONE LIGHTING CONTROL PANEL
	REMOTE STATION WITH PRESET SCENE SELECTION BUTTON		PARTITION POSITION INFRARED SENSOR FOR LIGHTING CONTROL

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

13 LIGHTING LEGEND 2 OF 2 N.T.S

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	WALL MOUNTED VOICE AND DATA OUTLET, CABLE TYPE AS PER SPECIFICATION		WALL MOUNTED VOICE OUTLET FOR EMERGENCY PHONE STATION, CABLE TYPE AS PER SPECIFICATION
	FLOOR MOUNTED ABOVE COUNTER VOICE AND DATA OUTLET, CABLE TYPE AS PER SPECIFICATION		SERVICE POLE MOUNTED VOICE AND DATA OUTLET, CABLE TYPE AS PER SPECIFICATION
	WALL MOUNTED DATA OUTLET, CABLE TYPE AS PER SPECIFICATION		RECREATIONAL VOICE AND DATA OUTLET, CABLE TYPE AS PER SPECIFICATION
	FLOOR MOUNTED ABOVE COUNTER DATA OUTLET, CABLE TYPE AS PER SPECIFICATION		COAXIAL CATV OUTLET
	FLOOR MOUNTED VOICE AND DATA OUTLET, CABLE TYPE AS PER SPECIFICATION		MAIN CABLE SUPPORT ROUTE FOR COMMUNICATIONS CABLING
	FLOOR MOUNTED DATA OUTLET, CABLE TYPE AS PER SPECIFICATION		COMMUNICATIONS BOX
	FURNITURE MOUNTED VOICE AND DATA OUTLET, CABLE TYPE AS PER SPECIFICATION		POWER ZONE BOX
	FURNITURE MOUNTED DATA OUTLET, CABLE TYPE AS PER SPECIFICATION		TELEPHONE ZONE BOX
	CEILING MOUNTED VOICE AND DATA OUTLET, CABLE TYPE AS PER SPECIFICATION		
	CEILING MOUNTED DATA OUTLET, CABLE TYPE AS PER SPECIFICATION		

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

14 DATA AND COMMUNICATIONS N.T.S

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED ABOVE COUNTER DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R (T-UL)		FLOOR CEILING MOUNTED AS SHOWN, REFER TO SCHEDULE OR CORRESPONDING DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R (C-UL)		FLOOR POLE THROUGH COMBINATION COMMUNICATION / QUALEX DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO CORRESPONDING DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, DEDICATED CIRCUIT		FLOOR POLE THROUGH COMBINATION COMMUNICATION / QUALEX DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX GROUND FAULT RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R		FLOOR POLE THROUGH COMBINATION COMMUNICATION / QUALEX DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO CORRESPONDING DETAIL
	WALL MOUNTED DUPLEX GROUND FAULT RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R		FLOOR POLE THROUGH COMBINATION COMMUNICATION / QUALEX DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX GROUND FAULT RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R		FLOOR POLE THROUGH COMBINATION COMMUNICATION / QUALEX DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO CORRESPONDING DETAIL
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LEGEND
 --- NEW
 - - - EXISTING
 // // // DEMOLITION

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1 2024-07 ISSUED FOR TENDER
 2 2024-08 ISSUED FOR POINT TO POINT
 3 2024-08 REVISED FOR IFC
 4 2024-08 ISSUED FOR BIDDING
 5 2024-10 ISSUED FOR REVIEW
 6 2024-11 ISSUED FOR PERMITTING
 7 2024-09 ISSUED FOR CONSTRUCTION

No. Date Issue/Revision

PROJECT CONTACT
 Name: Greg Zapp
 TEL: 647 288 5479
 Email: Greg.Zapp@smithandanderson.com

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ELECTRICAL SPECIFICATION SUBMITTED FOR THIS PROJECT.

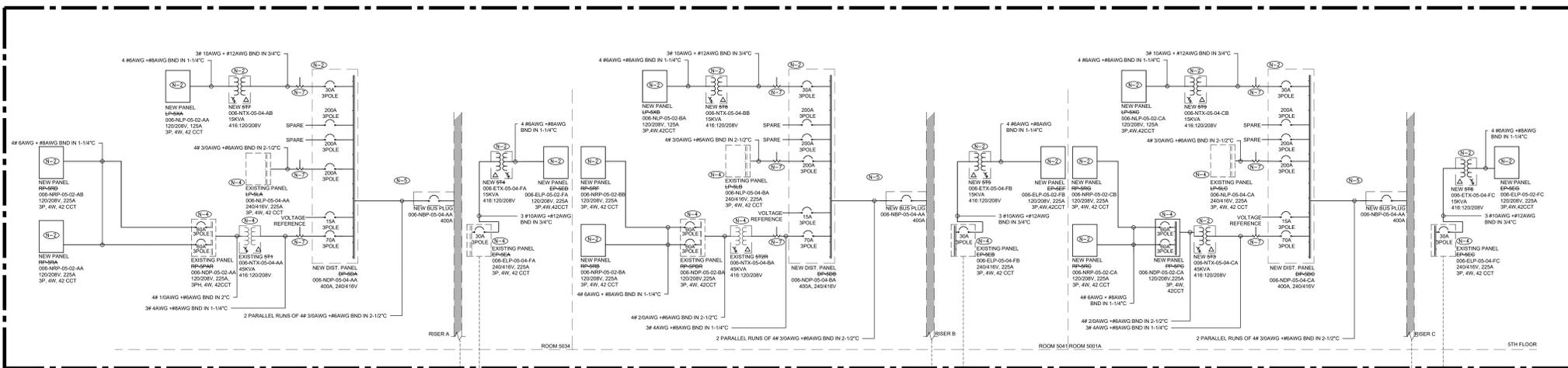
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 1100 - 100 Prospect Ave. East, Toronto, ON M2H 3P1
 416-497-7111
 No. Date Issue/Revision

Robarts 5th Floor MDL Renovation

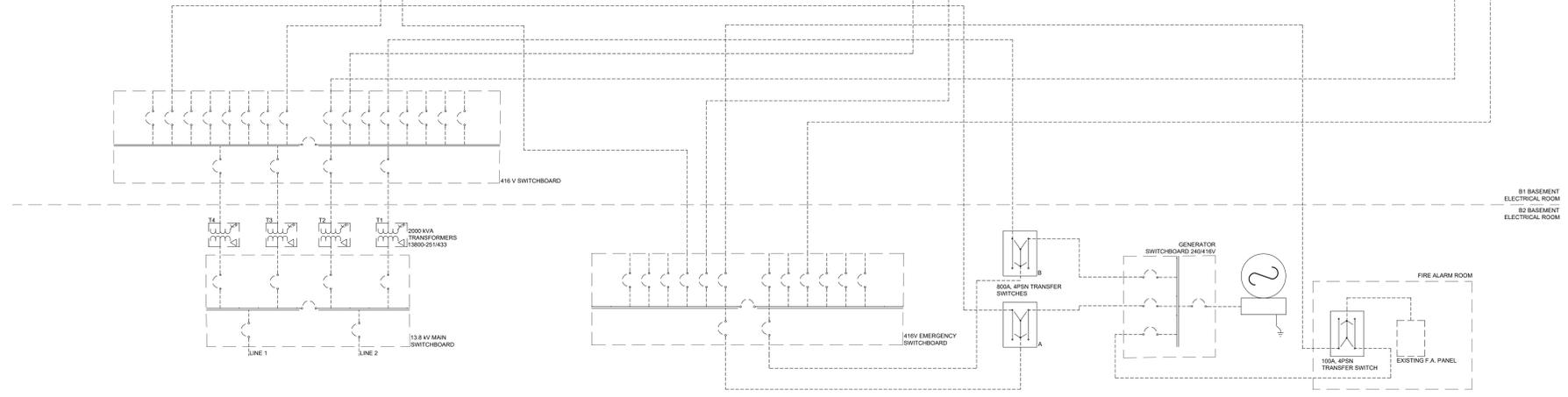
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 Project: No.08086.000 MEAVD Scale: AS NOTED
 Drawing No.

TE-0.3

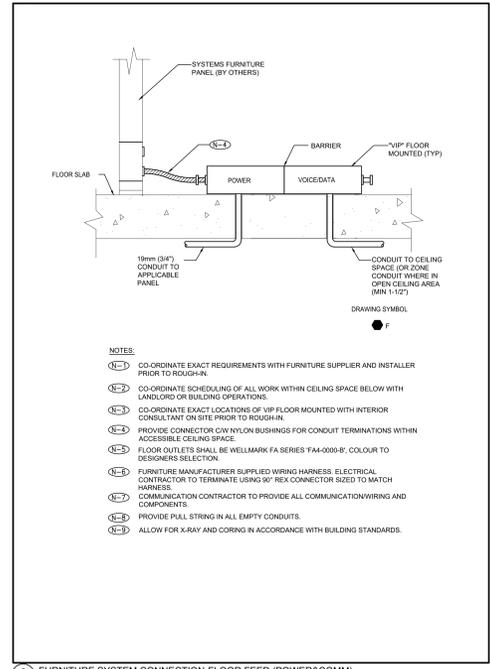
- NOTES:
- (N1) EQUIPMENT SHOW FOR REFERENCE PURPOSES ONLY. EQUIPMENT IS EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
 - (N2) NEW PANELS/TRANSFORMERS TO REPLACE EXISTING IN SAME LOCATIONS. ALLOW FOR ALL ASSOCIATED COST TO REMOVE EXISTING PANELS/TRANSFORMERS AND ALL ASSOCIATED CONDUIT/WIRING AS A PART OF THIS SCOPE.
 - (N3) PROVIDE PRELIMINARY POWER SYSTEMS STUDY ALONG WITH DISTRIBUTION SHOP DRAWINGS. STUDY TO BE UPDATED AFTER FINAL INSTALLATION. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL DETAILS.
 - (N4) EXISTING EQUIPMENT TO BE PROVIDED WITH NEW LAMACOD LABEL REFLECTING REVISED NAMING CONVENTION NOTE.
 - (N5) COORDINATE SHUTDOWN WITH OWNER FOR DEMOLITION OF EXISTING DISTRIBUTION PANELS FROM BUS DUCTS AS WELL AS THE INSTALLATION OF NEW BUS DUCTS. COORDINATE WITH BUS DUCT SUPPLIER AND PROVIDE 3-WEEK SHUTDOWN NOTICE IN ADVANCE OF SHUTDOWN (TO BE CONFIRMED WITH OWNER).
 - (N6) EXTEND NETWORK EXISTING WIRING AND CONDUIT FOR ALL EXISTING BRANCH CIRCUITS ON NEW PANELS TO ACCOMMODATE NEW PANEL LOCATIONS. TYP.
 - (N7) PROVIDE SOLID CORE SA/CA OF ACCURACY CLASS 0.2 COMPATIBLE WITH FUTUR SCHEINER METERS/METER. ALL CT SECONDARY WIRING SHALL BE BROUGHT TO A SEPARATE ENCLOSURE AND TERMINATED ON A SHORTING STYLE TERMINAL BLOCK. THE TERMINALS SHALL BE PERMANENTLY LABELED FOR FUTURE METERING CONNECTIONS.



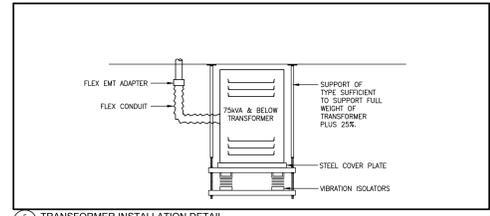
SCOPE OF WORK



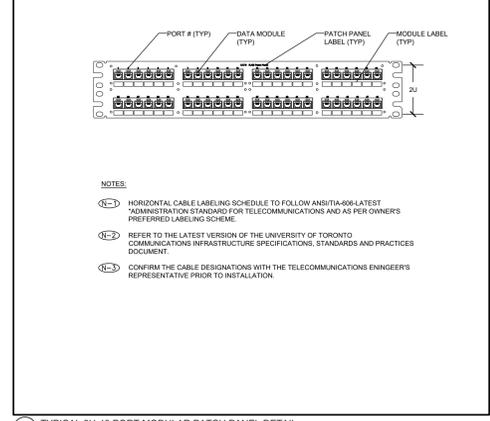
1 SINGLE LINE DIAGRAM N.T.S.



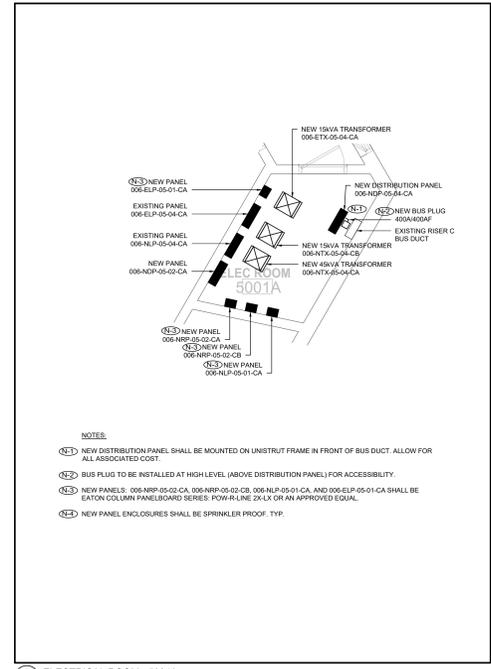
7 FURNITURE SYSTEM CONNECTION-FLOOR FEED (POWERSCORM) N.T.S.



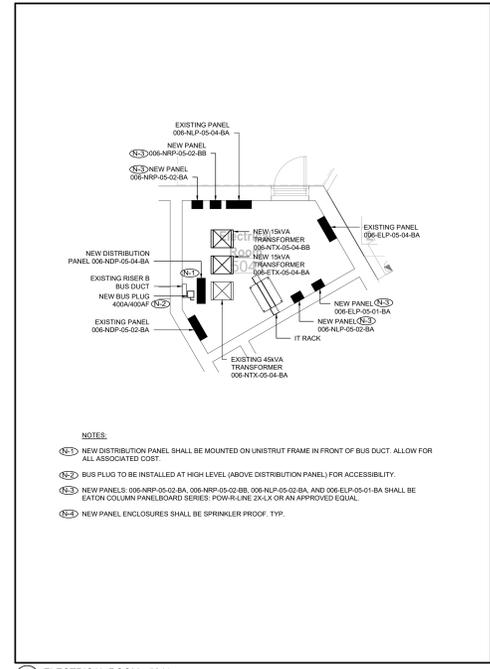
5 TRANSFORMER INSTALLATION DETAIL N.T.S.



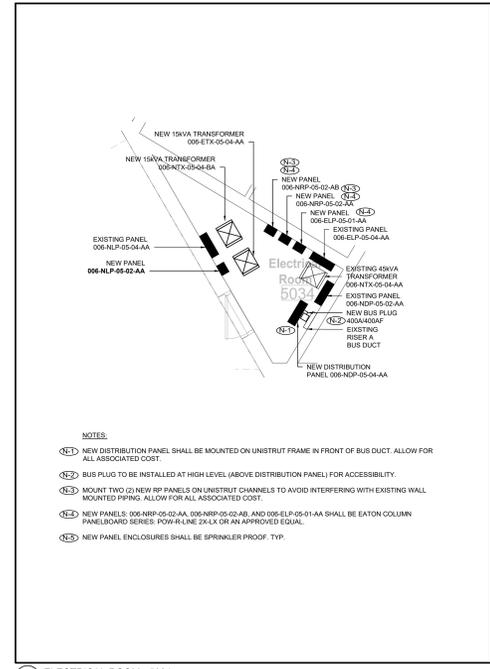
6 TYPICAL 2U-48 PORT MODULAR PATCH PANEL DETAIL N.T.S.



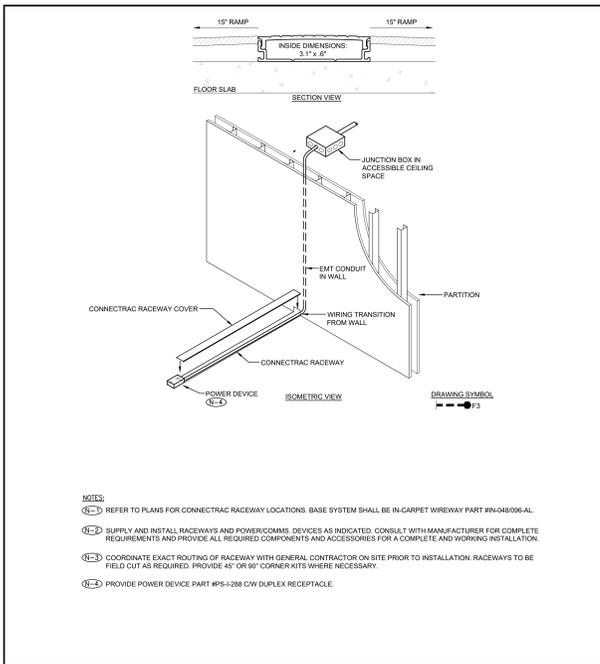
4 ELECTRICAL ROOM - 501A



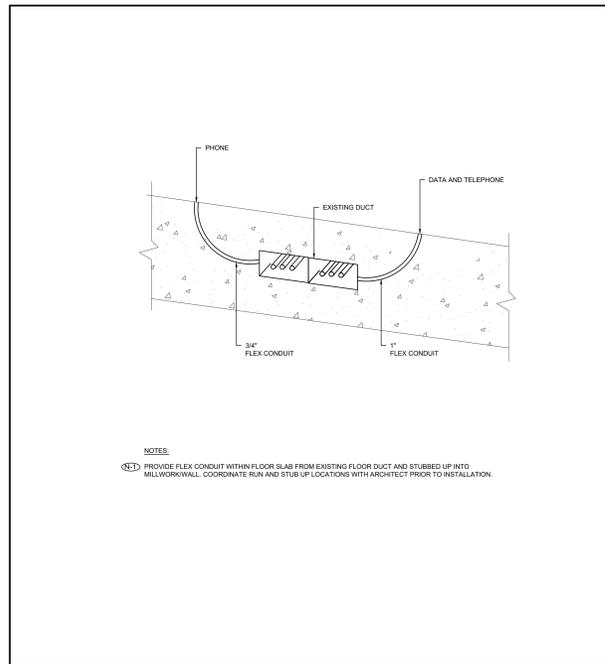
3 ELECTRICAL ROOM - 501A



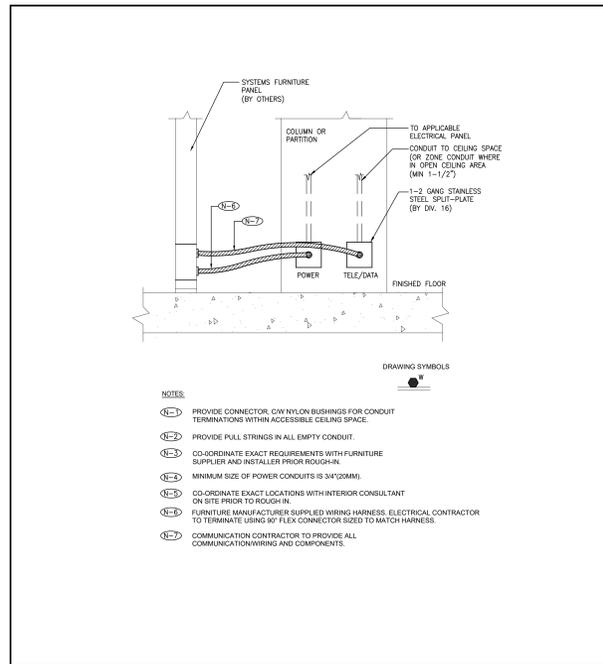
2 ELECTRICAL ROOM - 503A



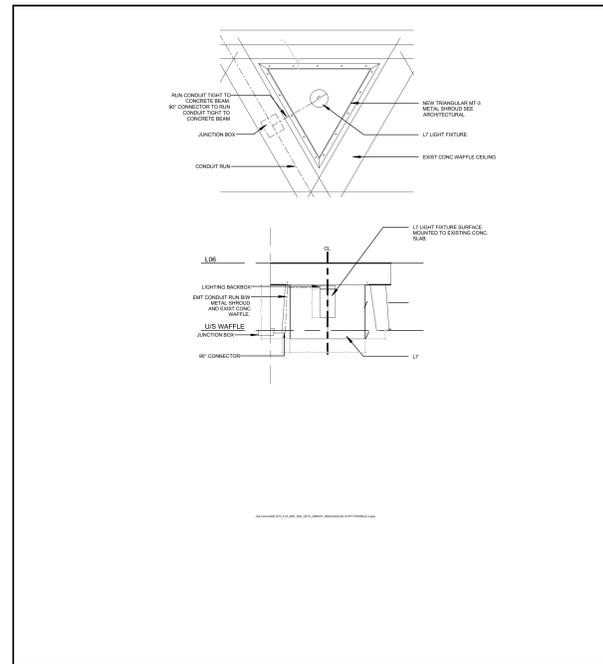
10. CONNECTRAC RACEWAY SYSTEM DETAIL



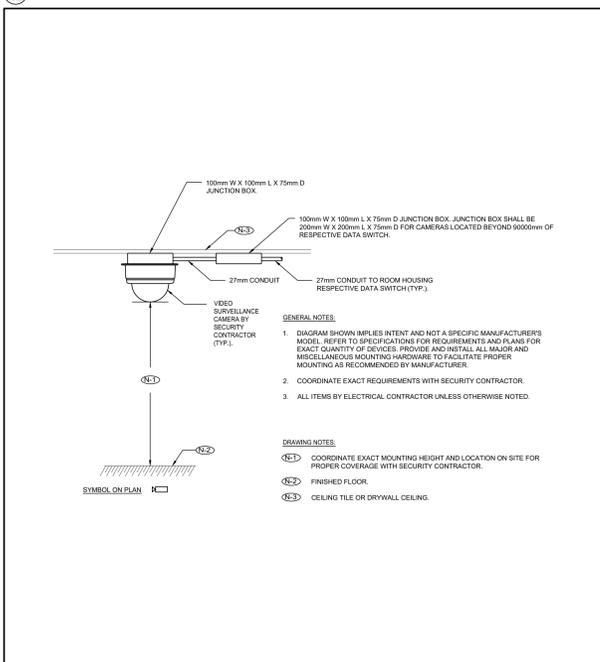
7. FLOOR CONDUITS CONNECTED TO EXISTING RACEWAY



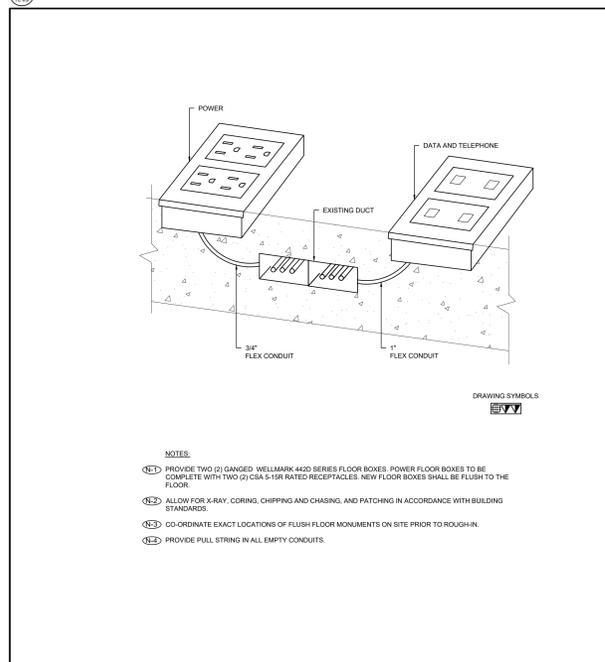
4. FURNITURE SYSTEM CONNECTION - WALL FEED



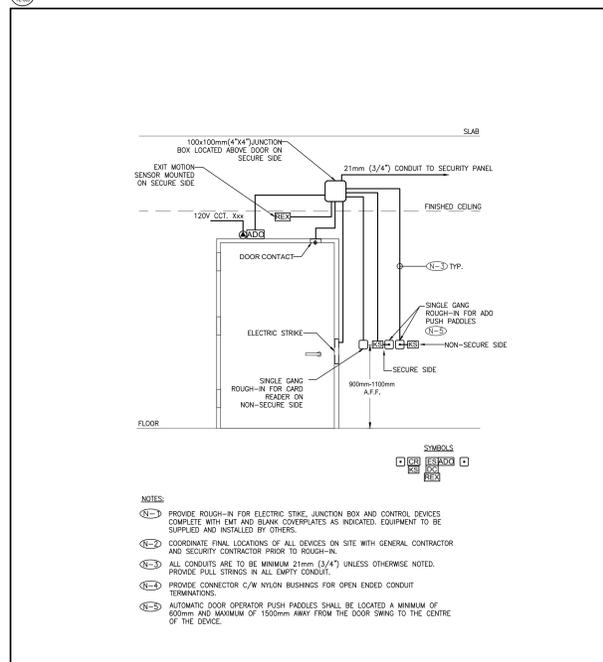
11. TRIANGLE LIGHT INSTALLATION DETAIL



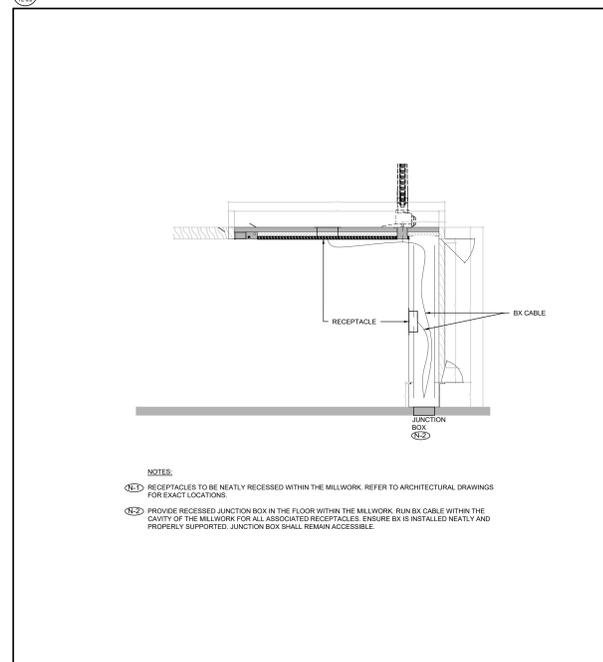
14. TYPICAL SURFACE CEILING MOUNTED INDOOR DOME CAMERA N.T.S.



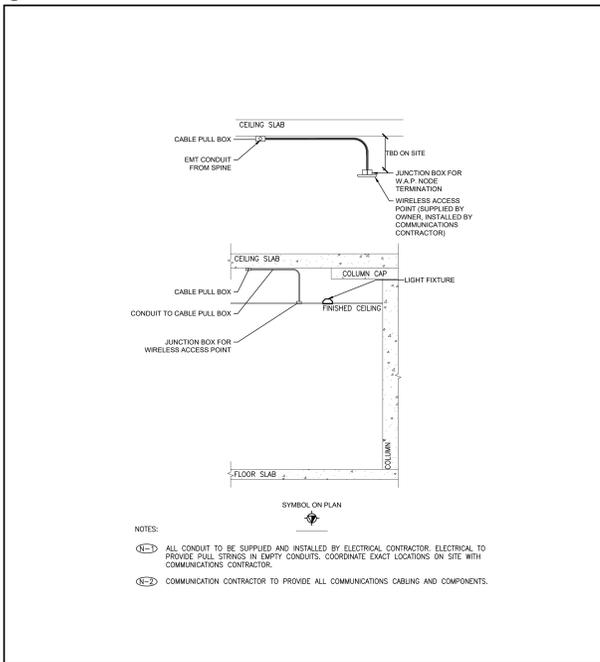
8. FLOOR BOXES CONNECTED TO EXISTING RACEWAY



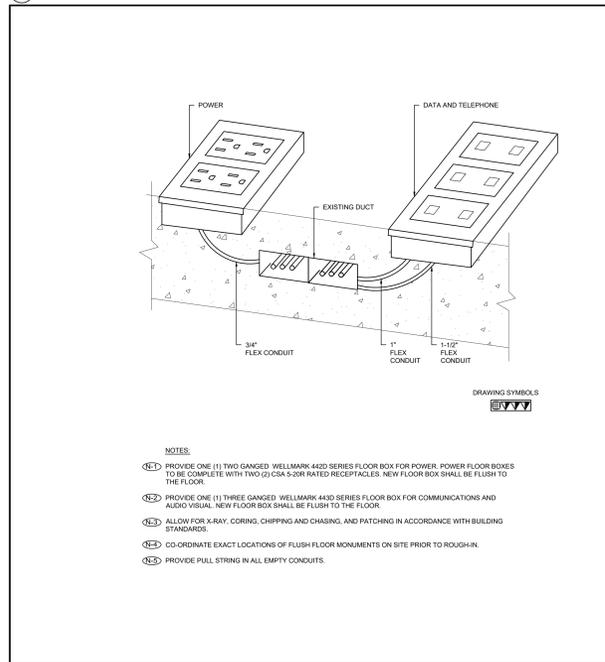
1. SECURITY DOOR ROUGH-IN - SINGLE DOOR ELECTRIC STRIKE C/W ADD AND KEY SWITCH



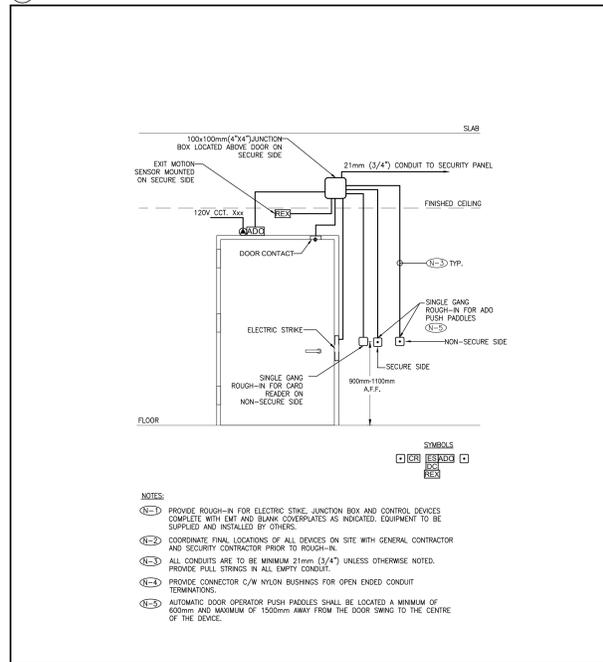
2. RECEPTION DESK MILLWORK MOUNTING DETAIL



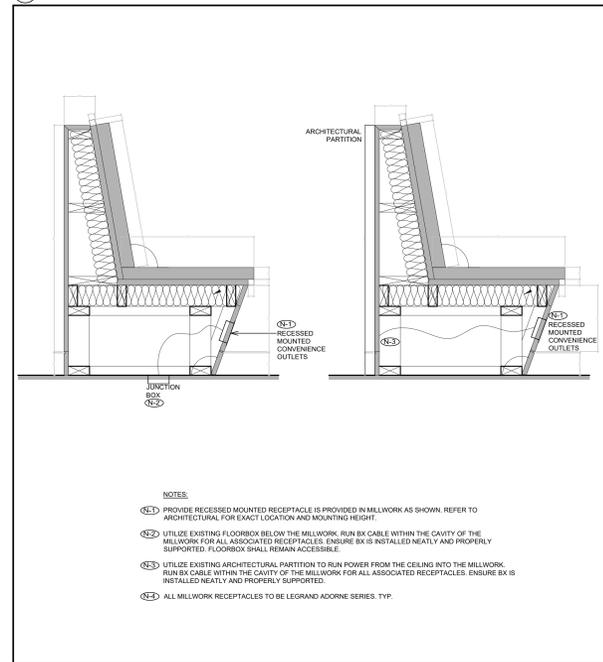
12. WIRELESS ACCESS POINT ROUTING AND TERMINATION DETAIL - CONDUIT SPINE N.T.S.



9. AV FLOOR BOX CONNECTED TO EXISTING RACEWAY



6. SECURITY DOOR ROUGH-IN - SINGLE DOOR ELECTRIC STRIKE C/W ADD



3. MILLWORK RECEPTACLES INSTALLATION DETAIL

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No.	Date	Issue/Revision
3	2024-07	ISSUED FOR TENDER
2	2024-06	ISSUED FOR PERMIT/TENDER
1	2024-02	ISSUED FOR RFI

PROJECT CONTACT
 Name: Greg Zapp
 TEL: 647 288 5479
 Email: Greg.Zapp@smithandandersen.com

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ELECTRICAL SPECIFICATION SUBMITTED FOR THIS PROJECT.

Smith + Andersen
 1100 - 100 Prosper Ave. East, Toronto, ON M2H 4P4
 No. Date Issue/Revision

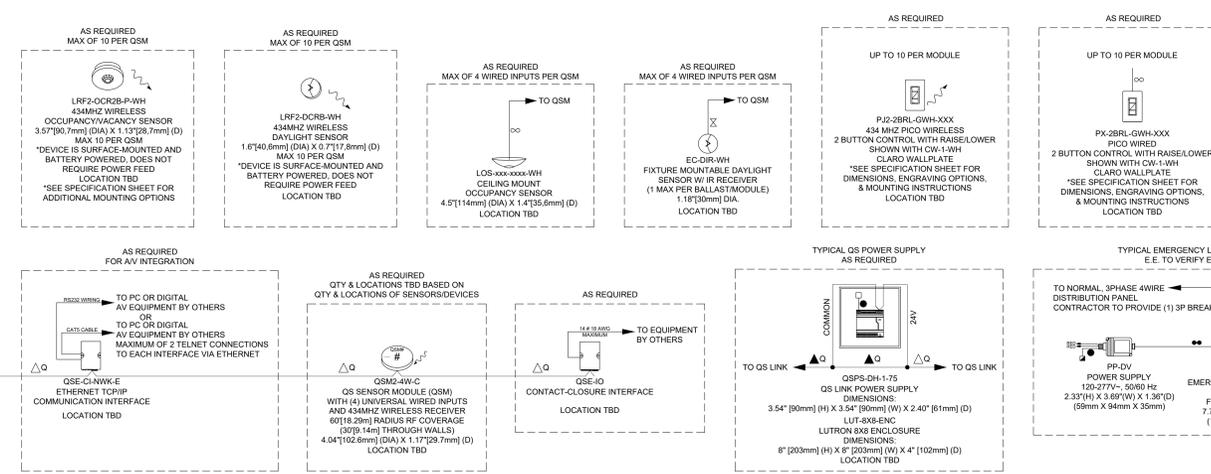
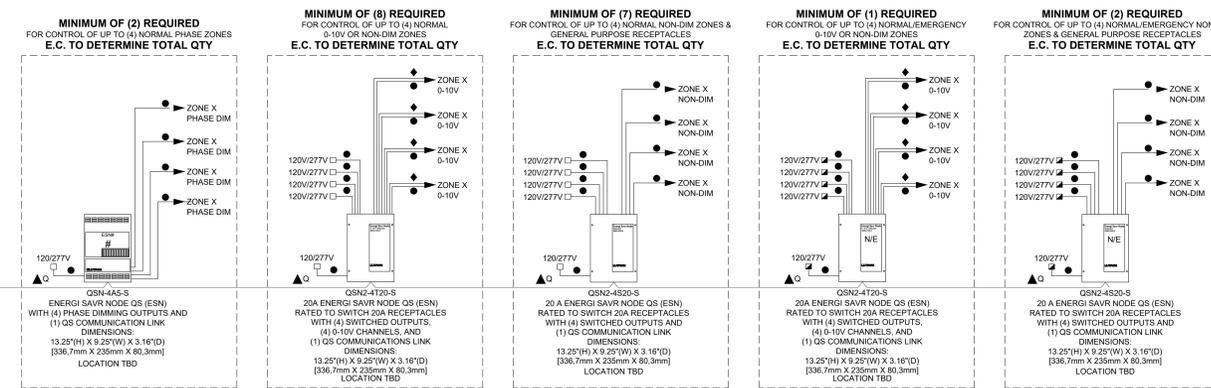
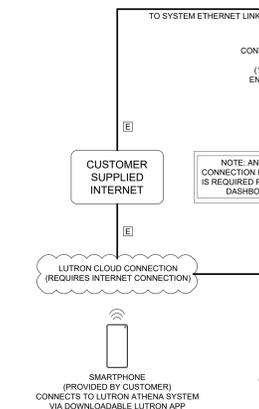
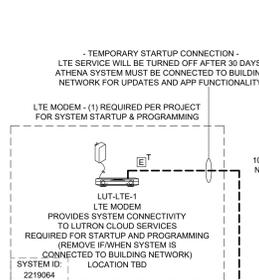


Robarts 5th Floor MDL Renovation

ELECTRICAL DETAILS

Project: No.08086.009 (MEAVD) Scale: N.T.S.
 Drawing No.

TE-0.5



5TH FLOOR ATHENA CONCEPT

WIRING LEGEND:

▲ QS CONTROL LINK (SEE WIRE DESCRIPTION BELOW)
▲ QS CONTROL LINK (SEE WIRE DESCRIPTION BELOW)
(CONNECT WIRES 1, 3 AND 4. DO NOT CONNECT WIRE # 2)
QS WIRING AS REQUIRED BY CONTROL LINK LENGTH. REFER TO QS SMART PANEL, POWER SUPPLY, WIRING GUIDE FOR SHADE WIRING NOTES)

TOTAL CONTROL LINK LENGTH	WIRE GAUGE	AVAILABLE FROM LUTRON IN ONE CABLE:
LESS THAN 500ft (152.4 m)	POWER (TERMINALS 1&2): 1 PAIR 18 AWG (1.0 mm²) DATA (TERMINALS 3&4): 1 PAIR 22 AWG (0.33 mm²) TWISTED AND SHIELDED	GRX-CBL-348 (NON-PLENUM) OR GRX-FCLR-348S (PLENUM)
500ft (152.4 m) TO 2000ft (610 m)*	POWER (TERMINALS 1&2): 1 PAIR 12 AWG (3.0 mm²) DATA (TERMINALS 3&4): 1 PAIR 22 AWG (0.33 mm²) TWISTED AND SHIELDED	GRX-CBL-48 (NON-PLENUM) OR GRX-FCLR-48 (PLENUM)

*ALTERNATE: DATA-ONLY CABLE. USE APPROVED DATA LINK CABLE (22 AWG [0.5 mm²] TWISTED/SHIELDED) FROM BELDEN (MODEL # 9461).
**TOTAL LENGTH OF THE QS LINK MUST NOT EXCEED 2,000 ft (600 m).

WIRING NOTES:

- ATHENA OS LINK RULES**
THE FOLLOWING LINK RULES MUST BE OBSERVED FOR PROPER OPERATION:
- THIS IS A TOPOLOGY-FREE LINK (I-TAP, HOME-RUN, ETC. IS OK); REFER TO TABLE IN WIRING LEGEND FOR WIRE RUN LIMITS.
 - IF WIRED DIFFERENTLY THAN WHAT IS SHOWN, POWER DRAW UNIT REQUIREMENTS NEED TO BE CONFIRMED. SEE POWER DRAW UNITS (PDU) SPECIFICATION SHEET.
 - FOR 2 LINK EDGE PROCESSORS (QS-PL-POE & QS-PL-POE) PER LINK LIMITS ARE:
 - MAXIMUM OF 512 SWITCHES (DIMMED/SWITCHED OUTPUTS, DIGITALLY ADDRESSABLE DEVICES, A SINGLE DMX CHANNEL, CONTACT CLOSURE OUTPUTS, SHADE DRIVES).
 - MAXIMUM OF 100 OCCUPANCY SENSORS, 100 DAYLIGHT SENSORS, AND 10 KEYPADS.
 - MAXIMUM OF 100 QS DEVICES (SUCH AS A SEETOUCH QS KEYPAD, SMART PANEL, POWER SUPPLY (QS-PS-10PLN), ESN, OR QS SHADE / DRAPERY DRIVE UNIT). EDGE PROCESSOR COUNTS AS 1 DEVICE PER LINK.
 - MAXIMUM OF 100 ZONES - SUCH AS QS SHADE / DRAPERY DRIVE UNIT.
 - THE 10 OUTPUTS ON A QS-PS-10PLN CANNOT EXCEED A COMBINED LENGTH OF 2,000 ft (600 m).
 - FOR 1 LINK EDGE PROCESSORS (QS-PL-POE & QS-PL-POE) PER LINK LIMITS ARE:
 - MAXIMUM OF 256 SWITCHES (DIMMED/SWITCHED OUTPUTS, DIGITALLY ADDRESSABLE DEVICES, A SINGLE DMX CHANNEL, CONTACT CLOSURE OUTPUTS, SHADE DRIVES).
 - MAXIMUM OF 50 OCCUPANCY SENSORS, 50 DAYLIGHT SENSORS, & 50 WALL CONTROLS.
 - MAXIMUM OF 25 QS DEVICES (SUCH AS A SEETOUCH QS KEYPAD, SMART PANEL, POWER SUPPLY (QS-PS-10PLN), ESN, OR QS SHADE / DRAPERY DRIVE UNIT). EDGE PROCESSOR COUNTS AS 1 DEVICE PER LINK.
 - MAXIMUM OF 100 ZONES - SUCH AS QS SHADE / DRAPERY DRIVE UNIT.
 - MAXIMUM OF 8 DMX INTERFACES (QS-EC-DMX).
 - THE 10 OUTPUTS ON A QS-PS-10PLN CANNOT EXCEED A COMBINED LENGTH OF 2,000 ft (600 m).

ATHENA SYSTEM ETHERNET LINK

- CATS6 OR BETTER ETHERNET CABLE TO BE RUN FOR SYSTEM ETHERNET LINK. TERMINATED WITH RJ45 CONNECTORS. SYSTEM ETHERNET LINK WIRING USES A STANDARD ETHERNET CONNECTION. ALL WIRING MUST COMPLY WITH IEEE 802.3 STANDARDS. TOTAL LENGTH OF ETHERNET CABLE SHALL NOT EXCEED 328 FT (100M) POINT-TO-POINT. THIS APPLIES FOR INTER-PROCESSOR COMMUNICATION AND COMMUNICATION LINES TO LUTRON ATHENA CLEAR CONNECT - TYPE X GATEWAYS. USE LUTRON'S Q-POE-PLN OR UNMANAGED ETHERNET SWITCHES FOR LONGER DISTANCES. LUTRON ATHENA CLEAR CONNECT - TYPE X GATEWAYS MUST BE CONNECTED TO A POE CAPABLE SWITCH THAT MEETS IEEE 802.3AB-2003 OR IEEE 802.3AZ-2009 REQUIREMENTS.
- PROCESSORS CANNOT BE DAISY CHAINED. DO NOT DAISY CHAIN PROCESSORS USING THE SECOND ETHERNET PORT. THE SECOND ETHERNET CONNECTION IS USED FOR SERVICE DIAGNOSTICS ONLY. EACH PROCESSOR MUST BE CONNECTED TO AN ETHERNET SWITCH.
- MAXIMUM OF (16) ATHENA EDGE PROCESSORS & CLEAR CONNECT - TYPE X GATEWAYS MAY BE CONNECTED AS A SINGLE ATHENA SYSTEM.

CONCEPT DRAWING NOTES:

- CONTROL SYSTEM DRAWINGS IS PROVIDED FOR CONCEPTUAL PURPOSES ONLY AND IS NOT INTENDED FOR CONSTRUCTION. EXACT EQUIPMENT REQUIREMENTS, INCLUDING LOCATIONS AND QUANTITIES SHOULD BE VERIFIED IN ACCORDANCE WITH THE MOST UP-TO-DATE LIGHTING/ELECTRICAL REFLECTED CEILING PLANS, LIGHTING FIXTURE SCHEDULES, PANEL SCHEDULES, CONTROL INTENT AND SPECIFICATIONS. SHADE EQUIPMENT SHOULD BE VERIFIED IN ACCORDANCE WITH ARCHITECTURAL PLANS, SPECIFICATIONS AND WINDOW SCHEDULES/DETAILS.
- LED DIMMING REQUIRES AN EXACT MATCH BETWEEN THE LED ARRAY, DRIVER AND CONTROL. LUTRON CANNOT GUARANTEE COMPATIBILITY OR PERFORMANCE WITHOUT TESTING THIS COMBINATION.
- TO CONFIRM WHAT PRODUCTS LUTRON HAS AVAILABLE OR WHAT INTERFACES MAY BE REQUIRED, CALL 1-877-DIM4LED OR CHECK LUTRON'S PRODUCT COMPATIBILITY MATRIX ON-LINE AT WWW.LUTRON.COM/LED.
- TO REQUEST THE TESTING OF AN LED PRODUCT BY LUTRON MANUFACTURERS CAN FILL OUT AN LED EVALUATION REQUEST FORM ON-LINE AT WWW.LUTRON.COM/LED OR CONTACT LED@LUTRON.COM
- LUTRON CAN GUARANTEE COMPATIBILITY AND PERFORMANCE OF LUTRON H-LUME A-SERIES LED DRIVERS USED WITH APPROPRIATE LUTRON CONTROLS. THE H-LUME A-SERIES LED DRIVER CAN BE USED ON PRODUCTS UNDER 40 WATTS WITH SUITABLE MOUNTING LOCATIONS. PLEASE REFER TO THE SPECIFICATION SUBMITTAL SHEET FOR FURTHER INFORMATION.
- IF USING UNTESTED, NON-LUTRON LED DRIVERS REQUIRING 0-10V CONTROL, PERFORMANCE AND COMPATIBILITY CANNOT BE GUARANTEED BY LUTRON. A-SERIES OR ELV PRODUCTS PROVIDING HIGH END AND LOW END TRIM ADJUSTERS ARE MORE LIKELY TO PROVIDE ACCEPTABLE PERFORMANCE RESULTS. DETERMINATION OF RESULT ACCEPTABILITY IS UP TO THE USER'S DISCRETION.
- IF USING UNTESTED, NON-LUTRON LED DRIVERS REQUIRING PHASE CONTROL, PERFORMANCE AND COMPATIBILITY CANNOT BE GUARANTEED BY LUTRON. A-SERIES OR ELV PRODUCTS PROVIDING HIGH END AND LOW END TRIM ADJUSTERS ARE MORE LIKELY TO PROVIDE ACCEPTABLE PERFORMANCE RESULTS. DETERMINATION OF RESULT ACCEPTABILITY IS UP TO THE USER'S DISCRETION.



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PROJECT CONTACT

Name: Greg Zapp
Tel: 647 288 5479
Email: Greg.Zapp@smithandanderson.com

This drawing shall be read in conjunction with electrical specification submitted for this project.



1100 - 100 Prospect Ave. Suite, Toronto, ON M2H 1P4
416-497-9710 | 416-497-9711 | info@smithandanderson.com

No. Date Issue/Revision

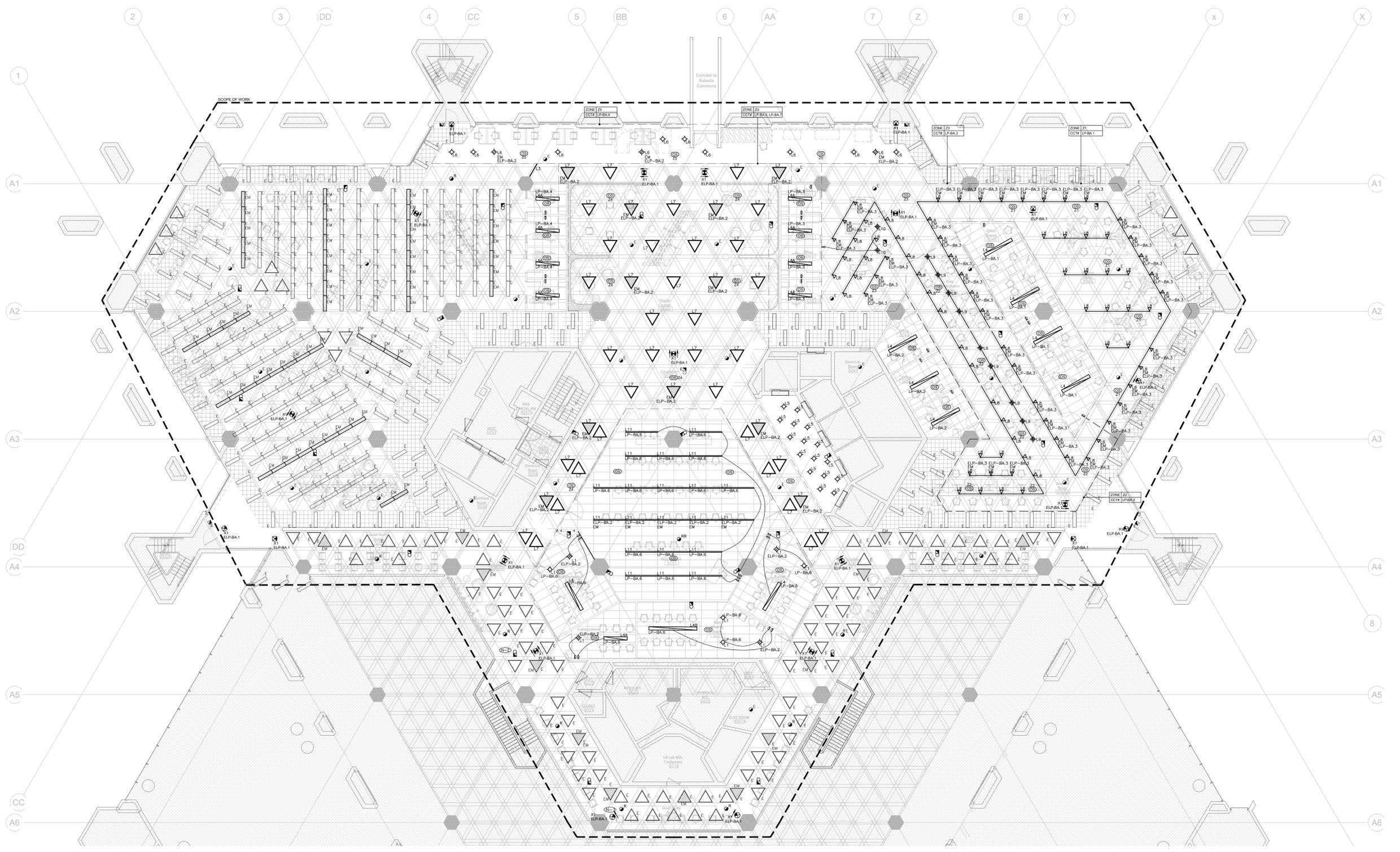
1 2024-09-20
1 2024-09-20

Project No.08086.000 (MEAVD) Scale N.T.S.
Drawing No.

Robarts 5th Floor MDL
Renovation

Title:
ELECTRICAL DETAILS

TE-0.6



- GENERAL NOTES:**
- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH INTERIOR DESIGNER'S DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILING, FINISHES AND COLOURS.
 - CIRCUITING IN PART IS DIAGRAMMATIC INTENDED TO SHOW GENERAL CIRCUIT ARRANGEMENT AND PANEL DESIGNATION.
 - PROVIDE EMT CONDUIT IN AREAS WITH EXPOSED CEILING. BX CABLES ARE NOT ACCEPTABLE UNLESS OTHERWISE NOTED. BX CABLES MAY BE USED FOR FINAL CONNECTIONS TO LIGHTING FIXTURES OR EQUIPMENT WITH A MAXIMUM HORIZONTAL RUN LENGTH OF 3 FEET / 1 METER. PAINT CONDUITS TO MATCH ARCHITECTURAL BACKGROUNDS. MOUNT EXIT SIGNS, OCCUPANCY SENSORS, EXIT SIGNS, CAMERAS, WAPS AND ALL OTHER CEILING MOUNTED DEVICES WITH STEMS SUCH THAT THEY ARE ON THE SAME PLANE AS SUSPENDED LIGHTING FIXTURES. COORDINATE CEILING AND WALL HEIGHTS WITH INTERIOR DESIGNER DRAWINGS.
 - REFER TO LIGHTING LAYOUT SHOWN FOR FINAL LOCATION ONLY. VISIT THE SITE AND COORDINATE EXACT QUANTITY OF LIGHTING LUMINAIRES TO BE NEW, RELOCATED AND/OR RETAINED IN EXISTING LOCATION. PROVIDE NEW LUMINAIRES TO MATCH EXISTING WHERE INSUFFICIENT QUANTITY EXIST TO SUIT. ALL RELOCATED LUMINAIRES SHALL HAVE WIRING EXTENDED TO SUIT NEW LOCATION. OFFER ALL UNUSED EXISTING LUMINAIRES TO LANDLORD AND TURN OVER ALL RELOCATED LUMINAIRES AT A PLACE DESIGNATED BY LANDLORD. DISPOSE OF ALL LUMINAIRES REJECTED BY LANDLORD.
 - ALL NEW/RELOCATED BASE BUILDING STANDARD LUMINAIRES AND NEW PROCESSED DOWN LIGHTS SHALL BE DOWN HUNG AND SUPPORTED FROM THE SLAB ABOVE. PROVIDE LETTER TO BE INCLUDED AS PART OF CLOSE-OUT DOCUMENT SUBMITTAL PACKAGE.
 - REPLACE EXISTING AND RELOCATED LUMINAIRES DUE TO BURNOUT CONDITIONS AND REPLACE FAULTY BALLASTS AS REQUIRED. INCLUDE IN BASE PRICE.
 - REWORK EXISTING EMERGENCY LIGHTING TO ACHIEVE NEW EMERGENCY LIGHTING AS SHOWN. CONNECT NEW AND/OR RELOCATED LUMINAIRES TO NEAREST EMERGENCY LIGHTING CIRCUITS ON THIS FLOOR. IF NEW EMERGENCY BRANCH CIRCUITS ARE REQUIRED FOR EMERGENCY LIGHTING AND EXISTING EMERGENCY LIGHTING PANEL IS LOCATED ON A DIFFERENT STOREY (i.e. NOT LOCATED ON SAME FLOOR) THEN NEW BRANCH CIRCUIT WIRING SHALL BE 2-HOUR FIRE RATED (i.e. M-CABLE) TO FIRST EMERGENCY LIGHT FEED. IF EXISTING EMERGENCY LIGHTING PANEL IS LOCATED ON THE SAME STOREY, THE NEW BRANCH CIRCUIT WIRING DOES NOT NEED TO BE FIRE RATED. PROVIDE LOCK-ON BREAKERS TO SUIT.
 - MEASURE THE ILLUMINATION OF THE FLOOR AT NIGHT WITH EMERGENCY LIGHTING ON ONLY, AND SEND A DRAWING SHOWING THE MAXIMUM AND MINIMUM LEVEL OF ILLUMINATION, TO THE CONSULTING ENGINEER FOR REVIEW. PROVIDE WRITTEN CONFIRMATION THAT EMERGENCY LIGHTING HAS BEEN INSTALLED IN ACCORDANCE WITH CONTRACT DOCUMENTS AND LATEST EDITION OF THE ONTARIO BUILDING CODE SECTIONS 3.2.7.3 AND 3.2.7.4. LETTER TO BE INCLUDED AS PART OF CLOSE-OUT DOCUMENT SUBMITTAL PACKAGE.
 - PROVIDE NEW PHOTOGRAPH (IRRAWING) MARK TYPE EXIT SIGNS. MATCH EXISTING BASE BUILDING STANDARD UNLESS OTHERWISE NOTED. CONNECT NEW EXIT SIGNS TO THE NEAREST AVAILABLE SPARE EXIT LIGHTING CIRCUIT. DO NOT OVERLOAD THE CIRCUIT ALLOW FOR (2) ADDITIONAL EXIT SIGNS (COMPLETE WITH MATERIAL AND LABOUR) TO BE INSTALLED AS PER BUILDING INSPECTOR'S REQUIREMENTS UPON FINAL INSPECTION.
 - LOCATE AND POSITION EXIT SIGNS SUCH THAT THEY DO NOT INTERFERE WITH ADJACENT EXIT SIGNS AND EMERGENCY LIGHTING COVERAGE.
 - ALL MODIFICATIONS TO FIRE ALARM SYSTEM AND DEVICES TO BE COMPLETED BY BASE

- BUILDING FIRE ALARM CONTRACTOR AND VENDOR/MANUFACTURER:** BASE BUILDING FIRE ALARM CONTRACTOR/VENDOR/MANUFACTURER IS RESPONSIBLE TO ENSURE THAT ALL ADDITIONAL COMPONENTS (INTERNAL SOFTWARE INCLUDING ANY LABOUR TO INSTALL OR MODIFY FIRE ALARM DEVICES) ARE INCLUDED FOR BASED ON ISSUED DRAWINGS.
- ELECTRICAL CONTRACTOR:** ALLOW FOR ALL ASSOCIATED COSTS: NEW FIRE ALARM BELLS ARE TO MATCH EXISTING AND BE CONNECTED TO THE NEAREST AVAILABLE SPACE EMERGENCY ZONE CIRCUITS. CONNECT NEW BELLS TO EXISTING CIRCUITS WHERE THERE IS SPARE CAPACITY ON RESPECTIVE CIRCUITS. IF THERE IS NO CAPACITY ON EXISTING CIRCUITS, PROVIDE NEW FIRE ALARM CIRCUITS. ALLOW FOR ALL ASSOCIATED COSTS INCLUDING BUT NOT LIMITED TO: ASSOCIATED EQUIPMENT, DEVICES, PROGRAMMING, TESTING AND VERIFICATION TO MAKE SYSTEM OPERATIONAL AND CODE COMPLIANT. ALL FIRE ALARM VERIFICATION SHALL CONFORM TO CAN/ULC-557 LATEST EDITION. FIRE ALARM SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH CAN/ULC-554 LATEST EDITION. PROVIDE FIRE ALARM MUSIC RELAY SHUT DOWN AS SUCH THAT MUSIC SYSTEM SHUTS DOWN UPON ACTIVATION OF FIRE ALARM SYSTEM. COORDINATE WITH MUSIC VENDOR AND GENERAL CONTRACTOR TO ENSURE MUSIC SYSTEM IS INSTALLED AND FULLY FUNCTIONAL AT THE TIME OF FIRE ALARM VERIFICATION. ALLOW FOR FIVE (5) ADDITIONAL BELLS AND FIRE ALARM VERIFICATION.
- ENSURE THAT ALL LIGHTING FIXTURES ARE CLEAN AND ILLUMINATED BY END OF PROJECT.
 - NEW LOW VOLTAGE SWITCH ARRANGEMENT OF LIGHTING TO BE CO-ORDINATED WITH LANDLORD AND REARRANGED TO SUIT NEW LAYOUT. ALL LIGHTING, EXCLUDING EMERGENCY, WITHIN THE TENANT PREMISES TO BE ON A SEPARATE LIGHTING ZONE AND TO BE CONTROLLED BY BASE BUILDING LIGHTING CONTROL SYSTEM. PROVIDE ALL NECESSARY RELAYS, CONTACTORS, RELAY PANELS, AND DRY INTERFACES REQUIRED FOR SUCH CONTROL. INCLUDE COST IN THIS CONTRACT.
 - RE-IN NEW 120V SPECIALTY LIGHTING FIXTURES INTO TENANT LIGHTING ZONE AND TO BE CONTROLLED BY BASE BUILDING LIGHTING CONTROL SYSTEM. PROVIDE ALL NECESSARY RELAYS, CONTACTORS, RELAY PANELS, AND DRY INTERFACES REQUIRED FOR SUCH CONTROL. INCLUDE COST IN THIS CONTRACT.
 - COORDINATE INSTALLATION OF FIXTURES WITH MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT, SPRINKLERS AND DUCT WORK WITH OTHER TRADES PRIOR TO WORK COMMENCING.
 - ALL CEILING MOUNTED OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE LOCATED AT LEAST 8'0" AWAY FROM ANY SURREY AIR DIFFUSER AND RETURN AIR GRILLE AS PER MANUFACTURER'S RECOMMENDATION. COORDINATE INSTALLATION ON SITE WITH MECHANICAL CONTRACTOR PRIOR TO COMMENCING WORK.
- LIGHTING SEQUENCE OF OPERATIONS:**
- OFFICES/SHARED DEVICES: MANUAL ON VIA DIMMER, AUTO OFF AFTER 15 MIN OF VACANCY.
 - COLLABORATION ROOMS: AUTO ON TO 50% UPON OCCUPANCY, MANUAL DIMMING CONTROL, AUTO OFF AFTER 15 MIN OF VACANCY.
 - DATA LAB: AUTO ON TO 100% UPON OCCUPANCY, MANUAL DIMMING CONTROL, AUTO OFF AFTER 15 MIN OF VACANCY/SHALL BE ON AT 100% DURING STANDARD HOURS OF OPERATION FROM 7AM TO 5PM. DURING ALL OTHER HOURS OUTSIDE OF STANDARD OPERATING HOURS LIGHTS SHALL AUTO ON TO 100% UPON OCCUPANCY AND AUTO OFF AFTER 15 MIN OF VACANCY, MANUAL DIMMING CONTROL.
 - OFFICE AREAS: AUTO ON TO 100% UPON OCCUPANCY WITHIN EACH INDIVIDUAL ZONE, AUTO OFF AFTER 30 MIN OF VACANCY IN EACH INDIVIDUAL ZONE.

- EMERGENCY LIGHTS, EMERGENCY LIGHTS TO BE CONTROLLED NORMALLY WITH ASSOCIATED ZONES DURING STANDARD HOURS OF OPERATION FROM 7AM TO 5PM. DURING ALL OTHER HOURS OUTSIDE OF STANDARD OPERATING HOURS EMERGENCY LIGHTS SHALL SERVE AS NIGHT LIGHT AND BE LEFT ON AT 50% EMERGENCY LIGHTS SHALL REVERT TO 100% UPON LOSS OF POWER OR ACTIVATION OF FIRE ALARM.
- DRAWING NOTES:**
- ALL DEVICES NOTED AS 'R' TO BE RELOCATED FROM THEIR CURRENT LOCATION TO THEIR FINAL LOCATION AS SHOWN ON TI-5.1.
 - CEILING MOUNTED BELLS TO BE MOUNTED ON THE VERTICAL FACE OF THE CEILING STRUCTURE.
 - ALL OSNs TO BE LOCATED IN ACCESSIBLE CEILING SPACES OR ELECTRICAL ROOMS. OSNs SHALL NOT BE LOCATED IN OPEN ISLANDS. COORDINATE EXACT LOCATIONS ON SITE.

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4	2024-07	ISSUED FOR TENDER
3	2024-06	ISSUED FOR PERMIT/TENDER
2	2024-06	ISSUED FOR PERMIT/CO
1	2024-06	ISSUED FOR PERMIT/CO
1	2024-05	ISSUED FOR COORDINATION
1	2024-05	ISSUED FOR OR REVIEW
1	2024-05	ISSUED FOR PERMITTING
1	2024-04	ISSUED FOR CO

PROJECT CONTACT

Name: Greg Zapp
 TEL: 647 288 5479
 Email: Greg.Zapp@smithandandersen.com

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ELECTRICAL SPECIFICATION SUBMITTED FOR THIS PROJECT.

Smith + Andersen

1109 - 100 Progress Ave. Scar. Toronto, ON M2H 4P9
 416 497 9111 / 416 497 9116 smithandandersen.com

No. Date Issue/Revision



Robarts 5th Floor MDL Renovation

Title:

FIFTH FLOOR LIGHTING AND FIRE ALARM LAYOUT

Project No. 08086.000 (MEAD) Scale 1:100
 Drawing No.

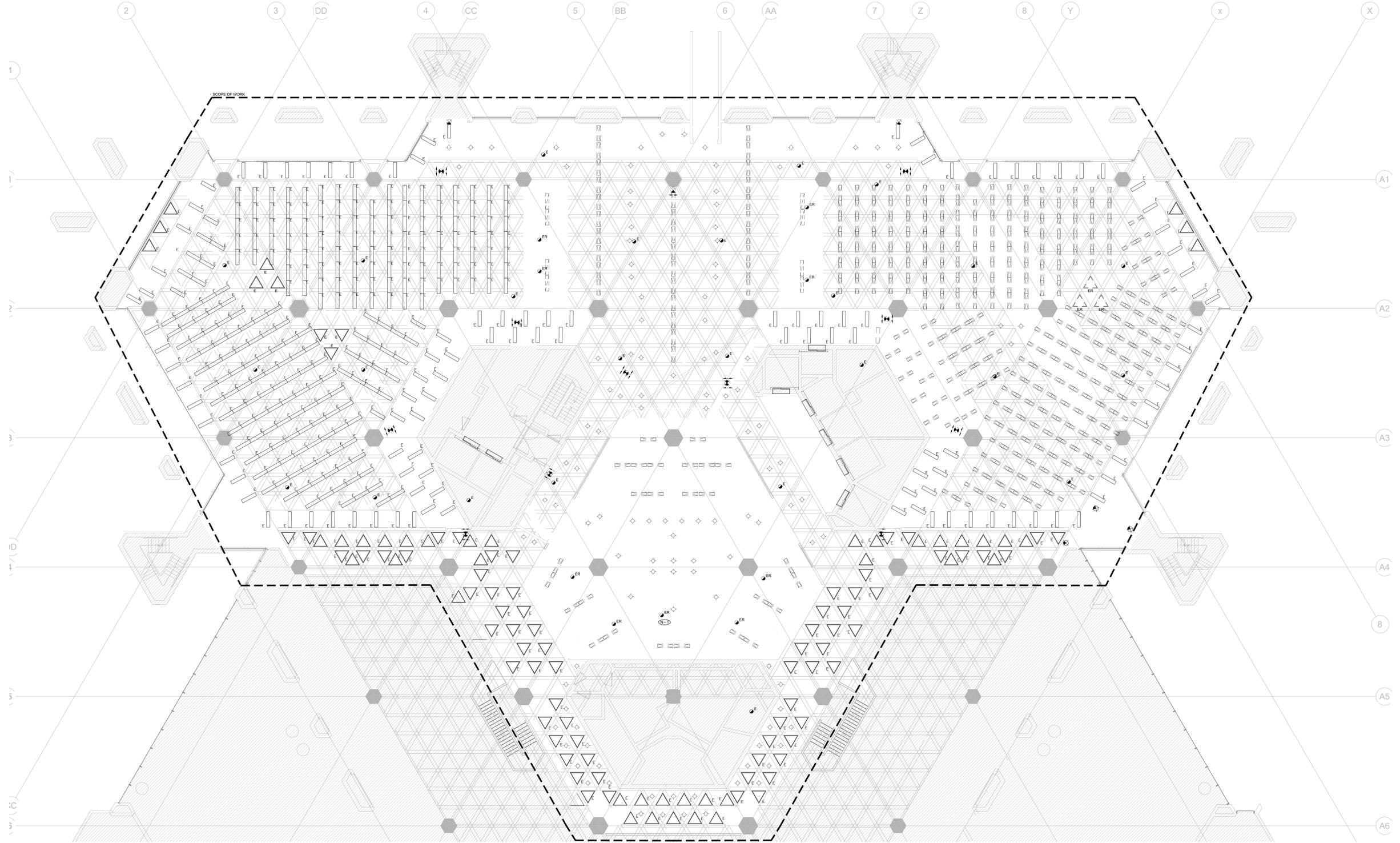
TE-5.1

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- GENERAL NOTES:**
- REFER TO THE ARCHITECT'S DRAWINGS TO DETERMINE COMPLETE EXTENT OF DEMOLITION AND ALLOW FOR ALL COSTS. COMPLETE EXTENT OF DEMOLITION IS NOT SHOWN.
 - ENSURE THAT ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT AND LIGHTING WITHIN BASE BUILDING ROOMS, STAIRWELLS AND AREAS DEEMED NOT IN SCOPE, REMAIN LIVE OPERATIONAL, ISOLATED AND PROTECTED DURING CONSTRUCTION.
 - EXISTING CONDITIONS SHOWN ARE BASED ON DRAWINGS, FIELD SURVEY AND INFORMATION PROVIDED BY LANDLORD. ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE SHOWN HERE SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER PRIOR TO BIDDING.
 - NO ADDITIONAL COST WILL BE APPROVED FOR ANY REVISIONS/MODIFICATIONS REQUIRED BY ANY TRADE OR CONTRACTOR DUE TO THE LACK OF COORDINATION BETWEEN TRADES AND CONTRACTORS.
 - COORDINATE WITH GENERAL CONTRACTOR AND LANDLORD FOR DISPOSAL OF ALL MATERIALS FROM SITE.
 - EXISTING FIRE ALARM DEVICES SHALL BE COOLED AND FULLY FUNCTIONAL THROUGHOUT DEMOLITION CONSTRUCTION. NEW FIRE ALARM DEVICES SHALL BE PROVIDED AS PART OF NEW CONSTRUCTION PHASE. REFER TO PHASING SCHEDULE FOR CONSTRUCTION SCHEDULING.
 - ELECTRICAL CONTRACTOR TO PROVIDE TEMPORARY EMERGENCY LIGHTING FOR ENTIRE SPACE TO ACCOMMODATE DEMOLITION WORK AND FUTURE BUILD-OUT. ENSURE FIXTURES ARE OWN HUNG AND SUPPORTED FROM THE CEILING SUB/STRUCTURE ABOVE.
 - EXISTING EXIT SIGNS SHALL BE MAINTAINED THROUGHOUT DEMOLITION CONSTRUCTION. PROVIDE TEMPORARY SUPPORT FROM THE CEILING SUB/STRUCTURE ABOVE. NEW EXIT SIGNS SHALL BE PROVIDED AS PART OF NEW CONSTRUCTION PHASE.

DRAWING NOTES:

① - ALL DEVICES NOTED AS '1' TO BE RELOCATED FROM THEIR CURRENT LOCATION TO THEIR FINAL LOCATION AS SHOWN ON TE-5.1.

No.	Date	Issue/Revision
7	2024-09-27	ISSUED FOR TENDER
6	2024-08-08	ISSUED FOR POINT/TENDER
5	2024-08-08	ISSUED FOR PERMITS
4	2024-08-08	ISSUED FOR PERMITS
3	2024-08-08	ISSUED FOR PERMITS
2	2024-08-08	ISSUED FOR PERMITS
1	2024-08-08	ISSUED FOR PERMITS

PROJECT CONTACT

Name: Greg Zapp
 TEL: 647 288 5479
 Email: Greg.Zapp@smithandandersen.com

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ELECTRICAL SPECIFICATION SUBMITTED FOR THIS PROJECT.

Smith + Andersen
 1100 - 100 Prospect Ave. East, Toronto, ON M2H 4K3
 416 497 9111 • 416 497 9110 smithandandersen.com

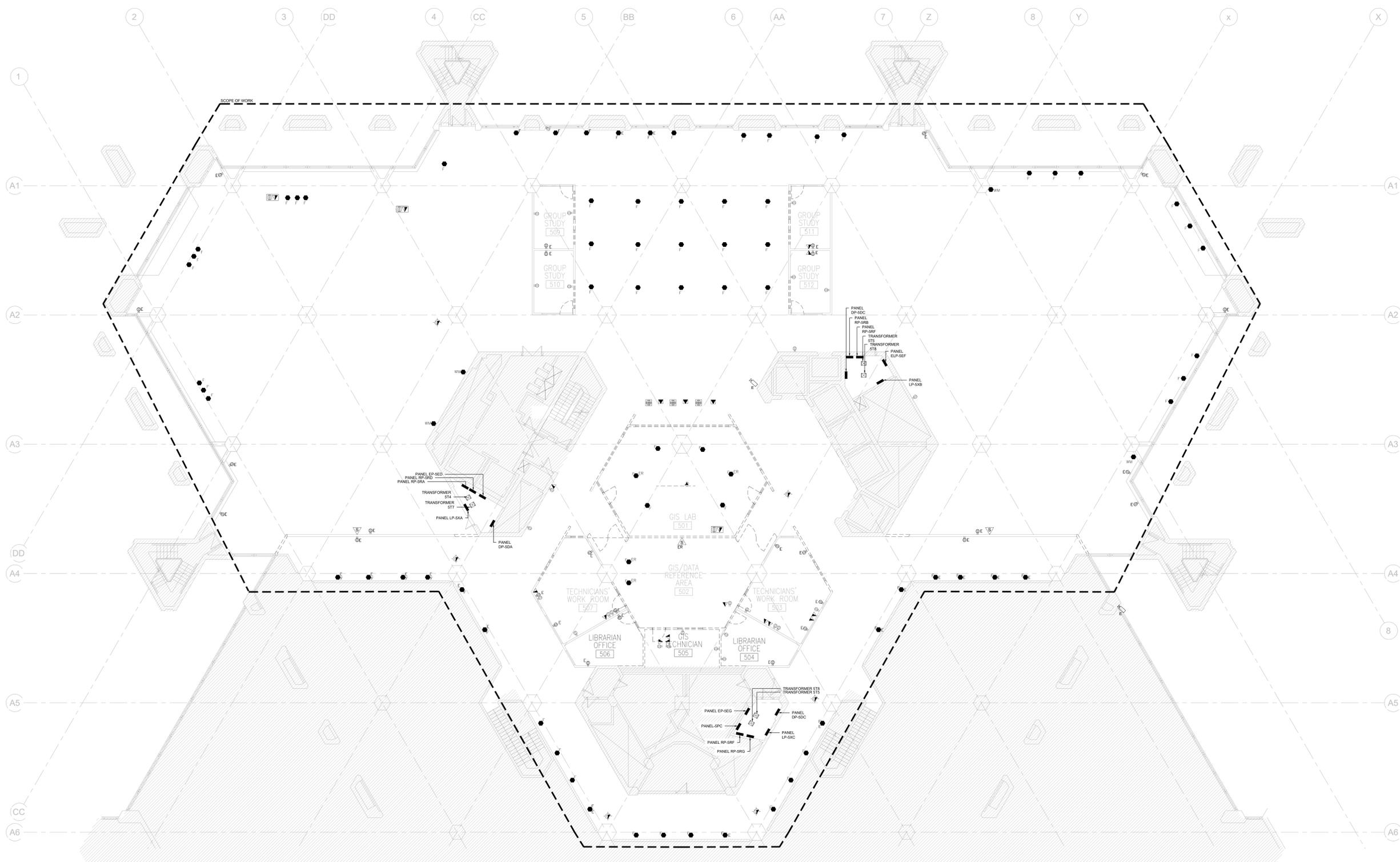


Robarts 5th Floor MDL Renovation

Title:
FIFTH FLOOR DEMOLITION AND FIRE ALARM LAYOUT

Project No. 08086.000 (MEAVD) Scale 1:100
 Drawing No.

TE-5.3



- GENERAL NOTES:**
1. REFER TO THE ARCHITECT'S DRAWINGS TO DETERMINE COMPLETE EXTENT OF DEMOLITION AND ALLOW FOR ALL COSTS; COMPLETE EXTENT OF DEMOLITION IS NOT SHOWN.
 2. REMOVE ALL FLOOR, COLUMN, CEILING, AND WALL MOUNTED POWER, TELEPHONE/DATA OUTLETS, CABLING AND CONDUIT NOT REQUIRED, TO SUIT NEW LAYOUT AND MAKE SAFE. VISIT SITE TO DETERMINE EXACT REQUIREMENTS AND REFER TO DEMOLITION DRAWINGS.
 3. MAKE GOOD ALL CORE HOLES FROM ELECTRICAL EQUIPMENT AND DEVICES DISCONNECTED, RELOCATED AND OR REMOVED IN THIS PROJECT.
 4. REMOVE FLOOR MONUMENT(S) AND ALL ASSOCIATED CONDUIT(S) AND WIRE BACK TO SOURCE. MAKE GOOD ALL FLOOR PENETRATIONS TO COMPLY WITH CURRENT LOCAL APPLICABLE CODES.
 5. ENSURE THAT ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT AND LIGHTING WITHIN BASE BUILDING ROOMS, SHAWBELLS AND AREAS REMOVED NOT IN SCOPE, REMAIN LIVE OPERATIONAL, ISOLATED AND PROTECTED DURING CONSTRUCTION.
 6. EXISTING CONDITIONS SHOWN ARE BASED ON DRAWINGS, FIELD SURVEY AND INFORMATION PROVIDED BY LANDLORD. ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE SHOWN HERE SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER PRIOR TO BIDDING.
 7. NO ADDITIONAL COST WILL BE APPROVED FOR ANY REVISIONS/MODIFICATIONS REQUIRED BY ANY TRADE OR CONTRACTOR DUE TO THE LACK OF COORDINATION BETWEEN TRADES AND CONTRACTORS.
 8. COORDINATE WITH GENERAL CONTRACTOR AND LANDLORD FOR DISPOSAL OF ALL MATERIALS FROM SITE.

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No.	Date	Issue/Revision
7	2024-09-27	ISSUED FOR TENDER
6	2024-08-08	ISSUED FOR POINT TO POINT
5	2024-08-08	ISSUED FOR PERMITS
4	2024-08-08	ISSUED FOR BIDDING
3	2024-12-12	ISSUED FOR REVIEW
2	2024-11-21	ISSUED FOR BIDDING
1	2024-08-08	ISSUED FOR

PROJECT CONTACT

Name: Greg Zapp
 TEL: 647 288 5479
 Email: Greg.Zapp@smithandandersen.com

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Smith + Andersen
 1100 - 100 Prosperity Ave. Suite, Toronto, ON M2H 4P3
 416 497 9171 • 416 497 9181
 No. Date Issue/Revision



Robarts 5th Floor MDL Renovation

Title:
FIFTH FLOOR POWER AND SYSTEMS DEMOLITION LAYOUT

Project: No 08086.000 (MEAVD) Scale: 1:100
 Drawing No.

TE-5.4

AUDIOVISUAL				ELECTRICAL							COMMUNICATION	MECHANICAL	GENERAL	
DEVICE DETAILS				REQUIREMENTS				RECEPTACLES			OWNER SUPPLIED NETWORK DROPS	HEAT LOAD	NOTES	
SYMBOL NAME	SYMBOL	ID	MOUNTING HEIGHT (TO CENTRE LINE)	AV BACKBOX/MIDRING SIZE	BACKBOX/MIDRING MOUNTING HEIGHT	VOLTAGE [V]	CURRENT [A]	UNIT POWER [W]	GROUND TYPE	TYPE	QUANTITY	HEAT LOAD [BTU]	NOTES	
55" WALL MOUNT DIGITAL SIGNAGE DISPLAY (PORTRAIT)		DS1	1500mm (59") AFF	112 GANG AV MIDRING	1780mm (70") AFF	120	2	240	NORMAL	5-15R	(1)QUAD	(2)NETWORK DROPS	818.88	POWER AND DATA ONLY
55" WALL MOUNT FLAT PANEL DISPLAY		FPD1	1575mm (62") AFF	112 GANG AV MIDRING	1780mm (70") AFF	120	2	240	NORMAL	5-15R	(1)QUAD	(2)NETWORK DROPS	818.88	
75" WALL MOUNT FLAT PANEL DISPLAY		FPD2	1700mm (67") AFF	112 GANG AV MIDRING	1955mm (77") AFF	120	4	480	NORMAL	5-15R	(1)QUAD	(2)NETWORK DROPS	1637.76	
110" WALL MOUNT FLAT PANEL DISPLAY		FPD3	1925mm (76") AFF	112 GANG AV MIDRING	2355mm (93") AFF	120	5	600	NORMAL	5-15R	(1)QUAD	(2)NETWORK DROPS	2047.00	
43" WALL MOUNT FLAT PANEL DISPLAY		FPD4	1310mm (51.6") AFF	112 GANG AV MIDRING	1500mm (59") AFF	120	1	120	NORMAL	5-15R	(1)QUAD	(2)NETWORK DROPS	409.44	
110" WALL MOUNT FLAT PANEL DISPLAY		FPD5	1925mm (76") AFF	112 GANG AV MIDRING	2355mm (93") AFF	120	5	600	NORMAL	5-15R	(1)QUAD	(2)NETWORK DROPS	2047.00	
WALL MOUNT PTZ CAMERA		CAM1	2130mm (84") AFF	112 GANG AV MIDRING	2130mm (84") AFF	-	-	-	-	-	-	-	-	
CEILING MOUNT PTZ CAMERA		CAM2	AT FINISHED CEILING	-	-	-	-	-	-	-	-	-	-	
AV WALLPLATE AV INPUT		AV1	AT RECEPTACLE HEIGHT	112 GANG AV MIDRING	AT RECEPTACLE HEIGHT	120	1	120	NORMAL	5-15R	(1)DUPLICATE	(2)NETWORK DROPS	409.44	
AV WALLPLATE VIDEO INPUT		AV2	917mm (36") AFF	111 GANG AV MIDRING	917mm (36") AFF	120	1	120	NORMAL	5-15R	(1)DUPLICATE	(2)NETWORK DROPS	409.44	
CEILING RECESSED SPEAKERS		S1	AT FINISHED CEILING	-	-	-	-	-	-	-	-	-	-	
WIRELESS MIC ANTENNA		ANT1	AT FINISHED CEILING	111 GANG AV BACKBOX	AT FINISHED CEILING	-	-	-	-	-	-	-	-	
ASSISTIVE LISTENING SYSTEM ANTENNA		ANT2	AT FINISHED CEILING	111 GANG AV BACKBOX	AT FINISHED CEILING	-	-	-	-	-	-	-	-	
CEILING MICROPHONE		MC	AT FINISHED CEILING	-	-	-	-	-	-	-	-	-	-	
CREDENZA RACK		RACK1	ON THE FLOOR	119 GANG OPENING AT ELECTRICAL FLOORBOX	AT RECEPTACLE HEIGHT	120	10.00	1200	ISOLATED	5-20R	(2)DUPLICATE	(4)NETWORK DROPS	3100	DEDICATED CIRCUITS REQUIRED, WITH ISOLATED GROUND, FIRE ALARM, LIGHTING INTERCONNECTION REQUIRED.

AV DEVICE MATRIX

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1.	2024.09.27	ISSUED FOR REFERENCE
No.	Date	Issue/Revision

PROJECT CONTACT

NAME:	DAT GALARDO
TEL:	416 572 8503
EMAIL:	pat.galardo@smithandandersen.com

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Smith + Andersen
1100 - 100 Princes Ave. East, Toronto, ON M2H 4M3
416 497 8111 • 416 497 8110 smithandandersen.com

No.	Date	Issue/Revision
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Robarts 5th Floor MDL Renovation

Title:
AV COORDINATION MATRIX

Project: No.08086.000(MEAVD) Scale: AS NOTED
Drawing No.

AV001

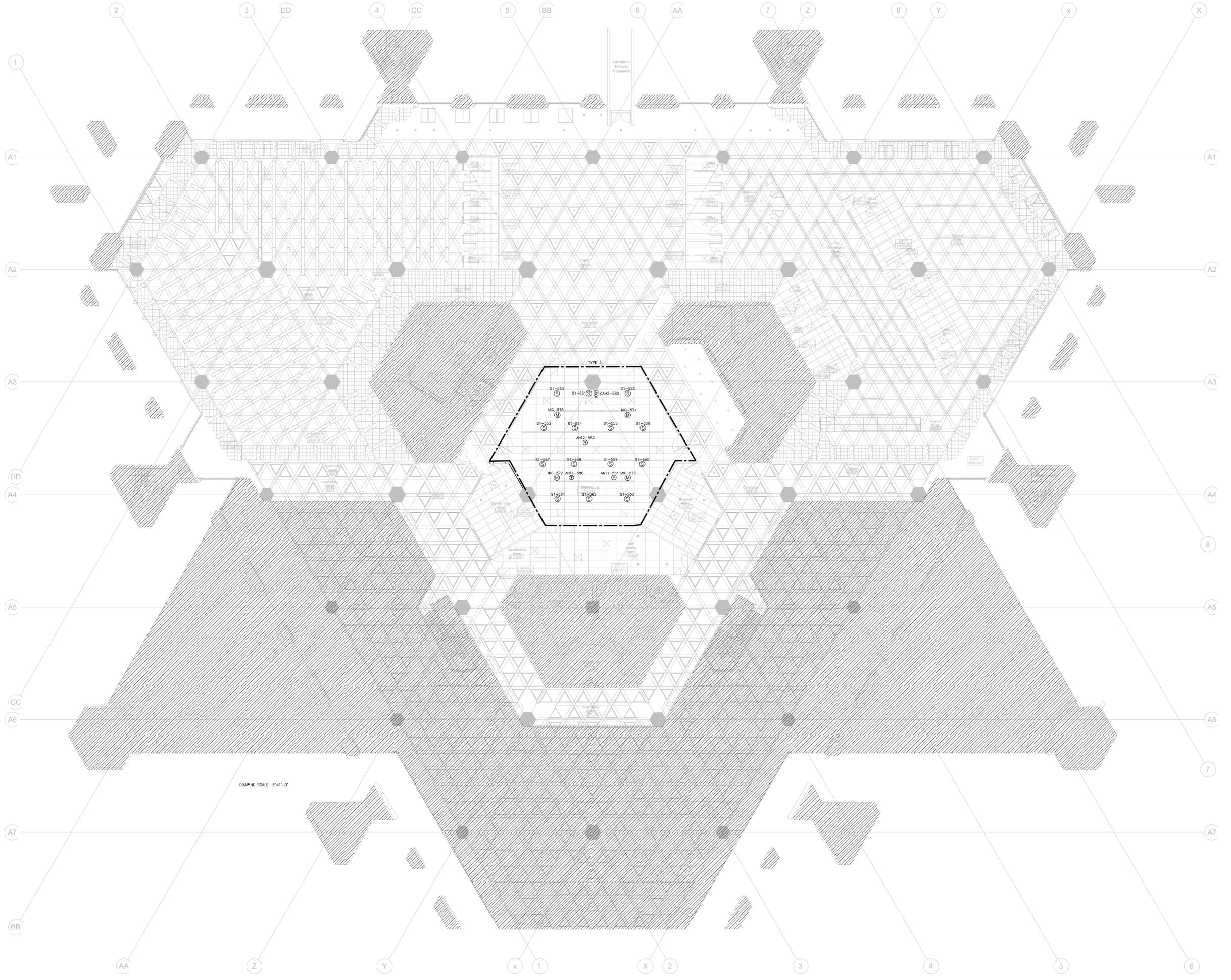
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1.	2024.09.27	ISSUED FOR REFERENCE

PROJECT CONTACT

NAME: DAI GALARDO
 TEL: 416 572 8503
 EMAIL: dai.galardo@smithandandersen.com

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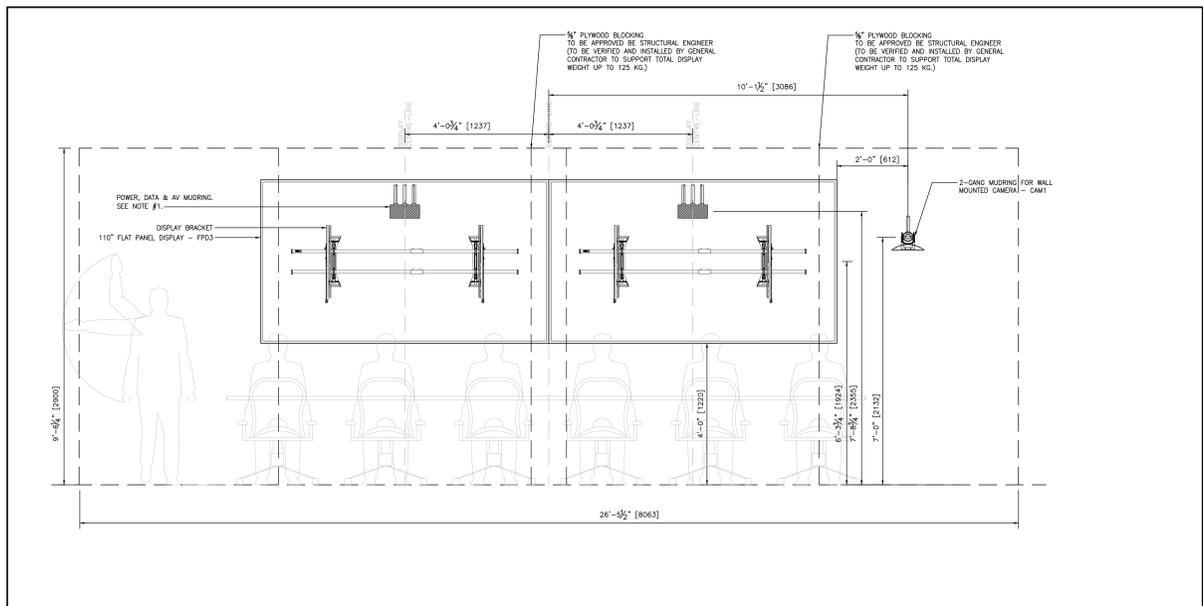


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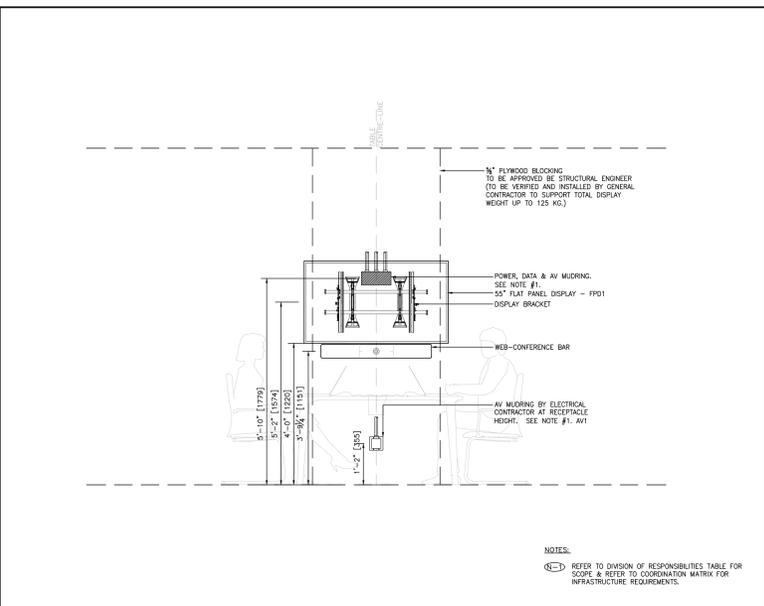
Title:
5th FLOOR AV DEVICE RCP

Project: No.08086.000 (MEAVD) Scale: AS NOTED
 Drawing No.

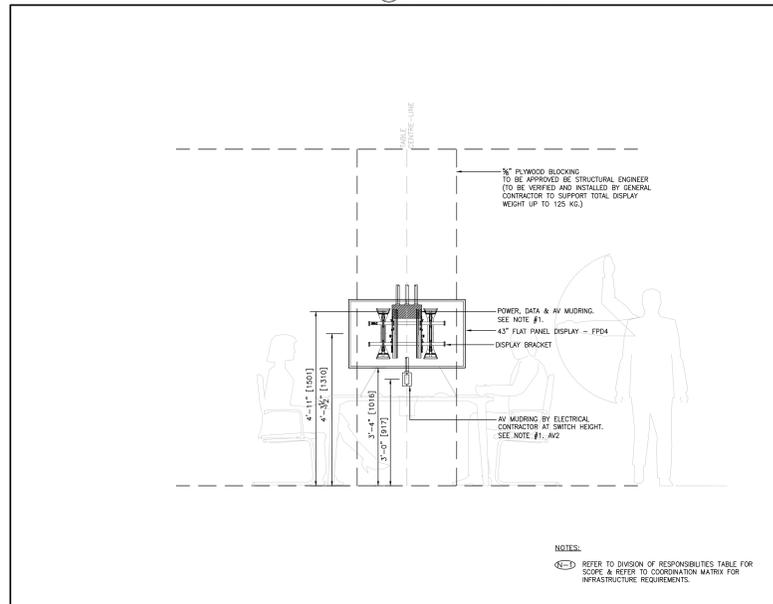
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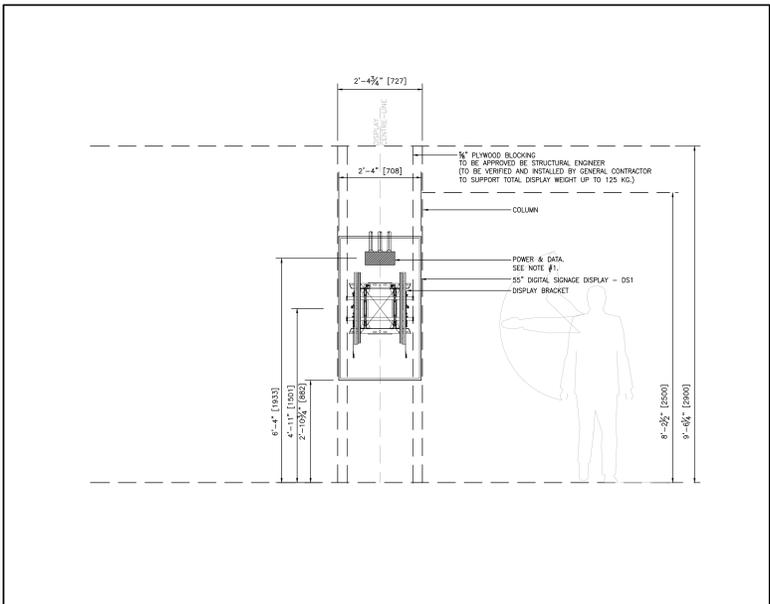
3
2023 TYPE 3 - TEACHING LAB
TYPICAL AV DEVICE ELEVATION



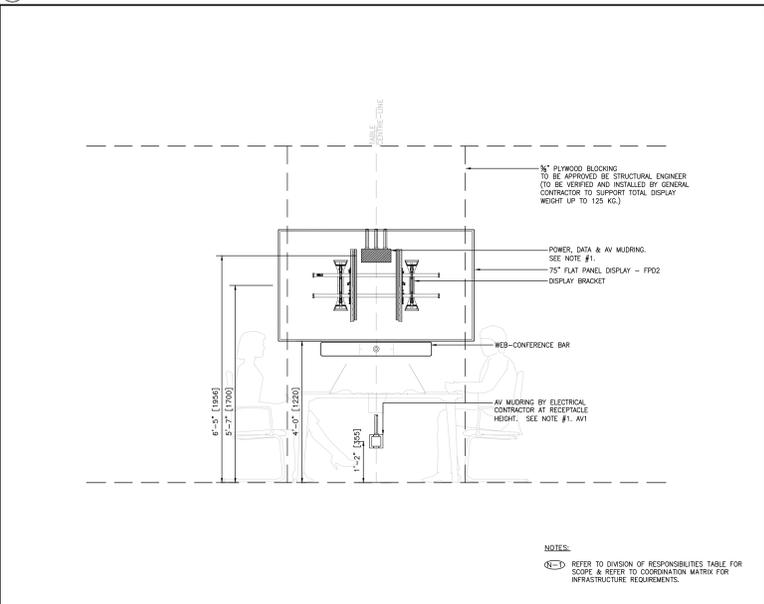
1
2023 TYPE 1A - COLLABORATION ROOM
TYPICAL AV DEVICE ELEVATION



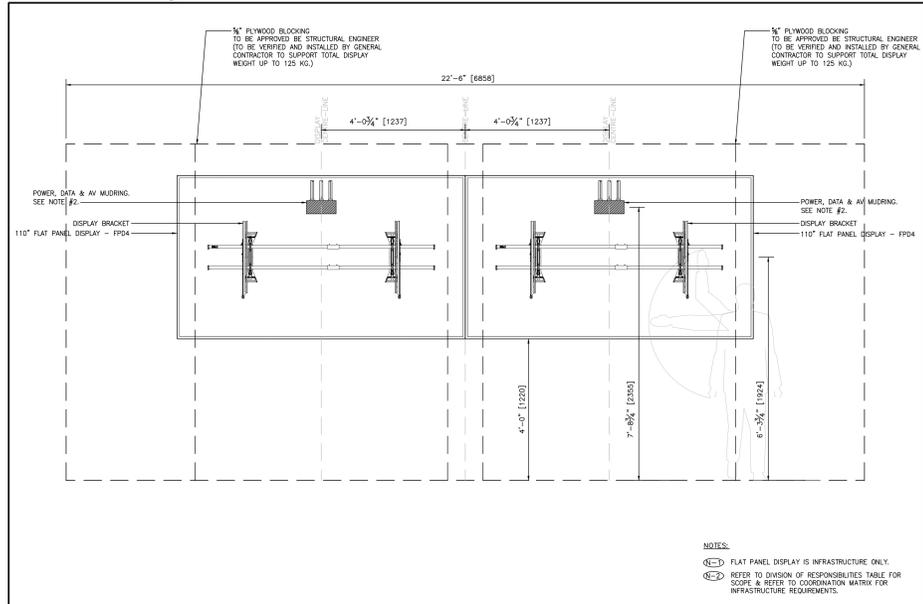
4
2023 TYPE 4 - OPEN COLLABORATION TABLES
TYPICAL AV DEVICE ELEVATION



5
2023 TYPE 5 - DIGITAL SIGNAGE
TYPICAL AV DEVICE ELEVATION



2
2023 TYPE 1B - COLLABORATION ROOM
TYPICAL AV DEVICE ELEVATION



2
2023 TYPE 2 - DIGITAL LOUNGE (110')
TYPICAL AV DEVICE ELEVATION

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PROJECT CONTACT

NAME: DAI CALARDO
 TEL: 416 572 8503
 Email: dai.galardo@smithandandersen.com

Smith + Andersen

1100 - 100 Prospect Ave. East, Toronto, ON M2H 4N3
 416 497 8111 • 416 497 8110 smithandandersen.com

Robarts 5th Floor MDL Renovation

Title:
AV ELEVATIONS

Project: No.08086.000(MEAVD) Scale: AS NOTED
 Drawing No.

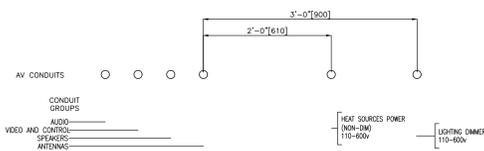
AV200

AUDIO-VISUAL CONDUIT SEPARATION CRITERIA

1. DO NOT RUN AV CONDUITS PARALLEL TO AC AND LIGHTING CONDUITS. WHERE RUNS ARE PARALLEL, ADHERE TO THE SEPARATION SHOWN BELOW:

LENGTH OF RUN PARALLEL TO HIGH VOLTAGE CONDUITS (feet)	MIN. SEPARATION OF AV CONDUITS FROM AC CONDUITS (mm (inch))	MIN. SEPARATION OF AV CONDUITS FROM DIMMER CONDUITS (mm (inch))
<= 1.8 (6)	150 (6)	228 (9)
1.8 (6) to 9.1 (30)	300 (12)	406 (16)
>= 9.1 (30)	600 (24)	812 (32)

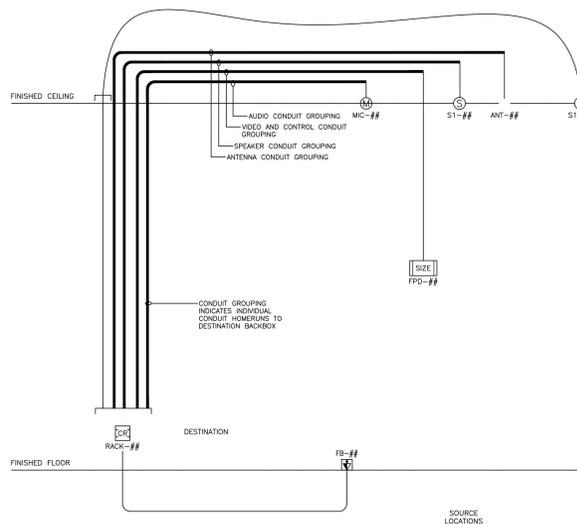
2. WHERE SYSTEM CONDUITS ARE RUN TOGETHER AND PARALLEL THEY SHALL BE IN THE FOLLOWING ORDERED SEQUENCE, STARTING AT THE SIDE FURTHEST FROM AC CONDUITS:



- WHERE AUDIO-VISUAL CONDUITS CROSS HIGH VOLTAGE CONDUITS, CROSSINGS SHOULD BE AS CLOSE TO 90° AS POSSIBLE.
- AV CONDUITS CONTAINING MICROPHONE CABLE SHOULD BE RUN AS FAR AS POSSIBLE FROM HIGH VOLTAGE CONDUITS. WHEN MULTIPLE AV CONDUITS ARE PROVIDED, ENSURE CONDUIT DESIGNATED FOR MICROPHONE CABLE IS FURTHEST AWAY FROM HIGH VOLTAGE CONDUIT.
- NOTIFY AV CONSULTANT IF AV CONDUITS ARE TO BE RUN AT A DISTANCE CLOSER THAN RECOMMENDED SEPARATIONS.
- ALL DIMENSIONS ARE MINIMUM VALUES.
- FOR RUNS OF LENGTH GREATER THAN 75', DOUBLE ALL VALUES.
- IF NOT PHYSICALLY POSSIBLE TO PROVIDE THE SEPARATION SPECIFIED FOR PARALLEL RUNS FOR DISTANCES OVER 75' WRAP THE EXTERIOR OF THE SIGNAL CONDUIT IN 1/32" THICK LEAD SHEET.

3. AUDIO-VISUAL CONDUIT SEPARATION CRITERIA
SCALE: NTS

Cable pathway shall not exceed 300 ft. Pathways that will exceed 300 ft must be coordinated with the Systems Designer and the AV Contractor.



4. RISER DIAGRAM DEFINITION
SCALE: NTS

UNLESS NOTED ON RISER, PROVIDE THE FOLLOWING CONDUIT SIZES AND QUANTITY:

- ALL BUTTON PANEL CONDUITS ARE (1) 1" [27mm]
- ALL WALL PLATE CONDUITS ARE MINIMUM (1) 1.5" [41mm]
- ALL SPEAKER CONDUITS ARE MINIMUM (1) 1" [27mm]
- ALL ANTENNA CONDUITS ARE MINIMUM (1) 1.5" [41mm]
- ALL FLOORBOX CONDUITS ARE MINIMUM (2) 1.5" [41mm]
- ALL DISPLAY CONDUITS ARE MINIMUM (1) 1" [27mm]
- ALL CONTROL PANELS ARE MINIMUM (1) 1" [27mm]
- ALL PROJECTORS ARE MINIMUM (1) 1" [27mm]
- ALL PROJECTION LIFTS ARE MINIMUM (1) 1.25" [35mm]
- ALL PROJECTION SCREENS ARE MINIMUM (1) 0.75" [21mm]

5. CONDUIT SIZES
SCALE: NTS

GENERAL

- SUPPLY AND INSTALL NETWORKS OF CONDUITS (INCLUDING PULLBOXES AND JUNCTION BOXES) AND BACKBOXES, READY FOR PULLING OF WIRE TO CAPTURE THE REQUIREMENTS SHOWN ON AV DRAWINGS.
- THE DESCRIPTION OF CONDUIT SYSTEMS AS SHOWN IN AV SCHEDULES AND RISERS IS SCHEMATIC ONLY AND IS INTENDED TO CONVEY THE REQUIREMENTS OF THE AV CONDUIT SYSTEM SUCH THAT THE AV SYSTEMS WILL FUNCTION CORRECTLY.

BACKBOXES

- THE TERM "BACKBOX" INCLUDES TERMINATION BOXES MOUNTED TO WALLS, CEILING AND IN FLOORS. ALL BACKBOXES TO BE SUPPLIED WITH UTILITY COVERS, FASTENED IN PLACE.
- THE DRAWINGS SHOW APPROXIMATELY WHERE BACKBOXES ARE TO BE LOCATED. FOR EXACT LOCATIONS, SEE ARCHITECTURAL DRAWINGS OR OBTAIN DIRECTION FROM THE ARCHITECT. THE LOCATIONS OF SOME PULL-BOXES AND JUNCTION BOXES ARE INDICATED FOR REFERENCE. THEIR EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR IN THE FIELD, SUBJECT TO THE REQUIREMENTS SHOWN HEREIN AND IN THE DRAWINGS.
- PROVIDE THAT THE SPACED REQUIREMENTS ARE MET, THE ELECTRICAL CONTRACTOR MAY USE ITS DISCRETION TO ADJUST THE DESIGN OF THE CONDUIT NETWORK TO CONFORM TO SITE CONDITIONS AND REALIZE ECONOMIES IN MATERIALS AND/OR PHYSICAL SPACE. EXAMPLE OF SUCH CONDITIONS ARE AS FOLLOWS:
 - ROUTING OF CONDUIT FROM POINT TO POINT MAY BE CHANGED TO RUN VIA AVAILABLE BUILDING LINES AND ACCESSIBLE AREA
 - WITH SHARE GROUPS, MANY SMALLER CONDUITS MAY BE COMBINED INTO FEWER LARGER CONDUITS THAT THE STATED FILL RATIO IS OBSERVED AND NET CAPACITY IS NOT REDUCED.

NOMENCLATURE

- CONSULT AV DRAWINGS FOR DETAILS OF BACKBOX INSTALLATION REQUIREMENTS (SIZE, MOUNTING HEIGHT, ETC.).
- EACH BACKBOX IS IDENTIFIED BY SYSTEM CODE ACCORDING TO THE NETWORK(S) CABLES THAT WILL BE TERMINATED THERE.

SIZE

- UNLESS NOTED OTHERWISE, SIZE CONDUIT ACCORDING TO REQUIREMENTS OF WIRES TO BE CONTAINED THEREIN. THE QUANTITY AND TYPES OF CABLES SHALL BE PROVIDED BY THE AV CONTRACTOR.
- THE FILL RATIO SHALL NOT EXCEED 40%.

MATERIALS

- ALL BACKBOXES TO BE MANUFACTURED OF STEEL.
- ALL BACKBOXES TO BE 75MM (3") DEEP OR GREATER, EXCEPT CEILING LOUDSPEAKER BACKBOXES, WHICH ARE SPECIFIED SEPARATELY.
- ALL SUSPENDED BACKBOXES SHALL INCLUDE AT LEAST ONE REDUNDANT CHAIN TO BE FASTENED TO THE CEILING SLAB OR OTHER STRUCTURAL MEMBER FOR SEISMIC AND FIRE SAFETY PURPOSES. TENSION RATING OF CHAIN AND FASTENERS TO MEET CODE REQUIREMENTS.
- WHERE NOTED ON DRAWINGS, USE RIGID CONDUIT UP TO 2400MM (8'-0") ABOVE FINISHED FLOOR WHERE EXPOSED INDOORS AND SUBJECT TO DAMAGE, USE EPOXY COATED RIGID CONDUIT WHERE EXPOSED IN CORROSIVE AREAS INDOORS.
- UNLESS NOTED OTHERWISE, PVC CONDUIT, BUSHINGS AND CONNECTORS ARE NOT ACCEPTABLE.
- ALL EXPOSED SURFACE-MOUNTED GANGING BACKBOXES (i.e. MOUNTED TO EXPOSED CONCRETE COLUMNS OR WALLS) SHALL BE SIMILAR TO WIREMOLD 15744-SERIES, ALLOWING FOR ALL COVER PLATES TO NOT OVERHANG BACKBOX. STANDARD METAL ELECTRICAL BACKBOXES ARE NOT ACCEPTABLE.

INSTALLATION

- COORDINATE BACKBOX LOCATIONS AS REQUIRED WITH ELECTRICAL POWER RECEPTACLES AND LIGHT SWITCHES TO PRESENT A UNIFORM APPEARANCE TO THE SATISFACTION OF THE ARCHITECT.
- MOUNT SURFACE OR RECESSED ACCORDING TO LOCAL FINISH REQUIREMENTS, AT THE DISCRETION OF THE ARCHITECT.
- MARK BACKBOXES IN THE FIELD CONSISTENT WITH THE DRAWINGS FOR IDENTIFICATION PURPOSES. USE PERMANENT MARKER TO MARK ID AND SYSTEM CODE ON THE FACING SURFACE OF THE BACKBOX.
- COORDINATE CEILING BACKBOXES WITH OTHER SERVICES IN CEILING SUCH THAT BACKBOXES ARE CLEAR OF INTERFERENCES AND DIRECTLY ACCESSIBLE FROM BELOW.
- IN OPEN CEILING, WHERE CHAIN OR STRUT IS THE PRIMARY HANGING SUPPORT, ENSURE THAT LOUDSPEAKER ARE SUSPENDED PLUMB AND LEVEL AT CONSISTENT HEIGHT ABOVE FINISHED FLOOR.
- WHERE LOUDSPEAKER BACKBOXES WILL BE CONCEALED ABOVE PLASTER OR GYPSUM BOARD CEILING PRIOR TO INSTALLATION OF THE LOUDSPEAKERS, PROVIDE PULLSTRING SUSPENDED BELOW THE CEILING LINE TO INDICATE ITS LOCATION.
- ALL JUNCTION BOXES MUST BE ACCESSIBLE AFTER THE INSTALLATION OF WALL FINISHES AND OTHER PERMANENT BUILDING FEATURES.

CONDUIT ORGANIZATION

- UNLESS NOTED OTHERWISE, PROVIDE A SEPARATE NETWORK CONNECTING ALL BACKBOXES OF EACH SYSTEM, AS IDENTIFIED ON THE DRAWINGS.
- UNLESS NOTED OTHERWISE, PROVIDE CONDUIT TO JOIN EVERY BACKBOX TO THE NETWORK(S), WHETHER OR NOT THE CONDUIT IS SPECIFICALLY DESCRIBED HEREIN.

BONDING

- ALL CONDUIT, PULL BOXES AND JUNCTION BOXES TO BE CONTINUOUSLY GROUNDED BY MEANS OF BONDING STRAPS LINKING EACH ELEMENT.
- LOW VOLTAGE CONDUITS SHALL BE MECHANICALLY AND ELECTRICALLY ISOLATED FROM SOUND SYSTEM EQUIPMENT RACKS AT RACKS. USE ISOLATED CONNECTION, SUCH AS PVC BUSHING, SUCH THAT CONDUIT REMAINS ISOLATED FROM THE RACK. CONNECT LOW VOLTAGE CONDUITS WITH HEAVY INSULATED GROUND WIRE TO THE NEAREST GROUND OF A UTILITY PANEL.

PROXIMITIES AND ROUTING

- AV CONDUITS AND AC CONDUITS RUN IN PARALLEL SHOULD BE SEPARATED BY A DISTANCE OF 24" FOR RUNS LESS THAN 75'. FOR PARALLEL RUNS GREATER THAN 75' DOUBLE ALL VALUES.
- DO NOT RUN WIRING, RACKWAYS AND CONDUIT NEAR POWER TRANSFORMERS, LIGHTING DIMMERS, POWER CONTROL EQUIPMENT, HEAVY CURRENT SWITCHGEAR, FUSIBLES, FLUORESCENT BALLASTS, MOTORS, OR ANY OTHER EQUIPMENT WHICH PROXIMATES EM.
- CROSS CONDUITS OF POWER SYSTEMS AT 90 DEGREES.
- UNUSUALLY HEAVY CURRENT DEMANDS IN ADJACENT CONDUIT OR LONG PARALLEL RUNS MAY DICTATE GREATER SEPARATION TO AVOID INTERFERENCE IN THE SOUND AND VIDEO. NOTIFY SUCH INSTANCES ON SITE AND CONSULT WITH ELECTRICAL CONSULTANT FOR RESOLUTION PRIOR TO INSTALLATION OF CONDUITS.
- WHERE CONDUIT CROSSES ACQUISICAL JOINTS, PROVIDE ISOLATION METHODS AS SHOWN IN ARCHITECTURAL DETAIL.
- CONDUIT EXPANSION FITTINGS TO BE PROVIDED WHEN CROSSING BUILDING EXPANSION JOINTS. CROSSING TO BE DONE AT 90 DEGREES TO JOINT.
- ALL WALL-MOUNTED PAGING LOUDSPEAKER AND ATTENUATOR BACKBOXES ARE TO BE SERVED BY CONDUIT ROUTED INTO CEILING SPACE ABOVE.

INSTALLATION

- BEND RADIUS OF CONDUIT MUST BE NO LESS THAN 10 (TEN) TIMES THE CONDUIT DIAMETER. BEND CONDUIT WITHOUT HEATING, REPLACE CONDUIT IF CHINCKED OR FLATTENED MORE THAN 1/10 OF THE ORIGINAL DIAMETER.
- MINIMUM DISTANCE BETWEEN TWO PULL BOXES TO INCLUDE A MAXIMUM OF 2 (TWO) 90 DEGREE BENDS OR EQUIVALENT UP TO 180 DEGREES, OR 20M (100') OF CONDUIT, WHICHEVER IS LESS.
- MARK ALL CONDUITS IN THE FIELD FOR IDENTIFICATION PURPOSES. FOR RISERS, SHOW SHARE GROUP LETTER AT EVERY JUNCTION BOX. FOR HORIZONTAL RUNS, SHOW DEVICE LOCATION ID AND SHARE GROUP LETTER AT EVERY JUNCTION BOX.

PULL STRINGS

- FOR PULL-STRINGS THROUGH ALL NETWORKS, AT EACH END OF EACH PULL-STRING, LABEL STRING WITH ID OF OTHER END. SECURE BOTH ENDS OF STRING TO CONDUIT OUTSIDE BACKBOX TO PREVENT IT FROM RE-ENTERING CONDUIT.
- WHERE LOUDSPEAKER BACK BOXES WILL BE CONCEALED ABOVE PLASTER OR GYPSUM BOARD CEILING PRIOR TO INSTALLATION OF THE LOUDSPEAKERS, PROVIDE PULL STRING SUSPENDED BELOW THE CEILING LINE TO INDICATE ITS LOCATION.
- FASTEN UTILITY COVERS TO ALL BACKBOXES.

1. AV CONDUIT AND BACKBOX NETWORK
SCALE: NTS

CONDUIT SIZES	
IMPERIAL	METRIC
1/2"	10MM
3/4"	21MM
1"	27MM
1-1/4"	35MM
1-1/2"	41MM
2"	53MM
2-1/2"	65MM
3"	78MM
4"	102MM

2. CONDUIT SIZES
SCALE: NTS

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- 2024.09.27 ISSUED FOR REFERENCE
No. Date Issue/Revision

PROJECT CONTACT

NAME: DAI CALARDO
TEL: 416 572 8503
Email: dai.galardo@smithandandersen.com

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ADDITIONAL SPECIFICATIONS SUBMITTED FOR THIS PROJECT.



Smith + Andersen
1100 - 100 Princes Ave. East, Toronto, ON M2H 1H3
416 497 8111 | 416 487 4444 smithandandersen.com

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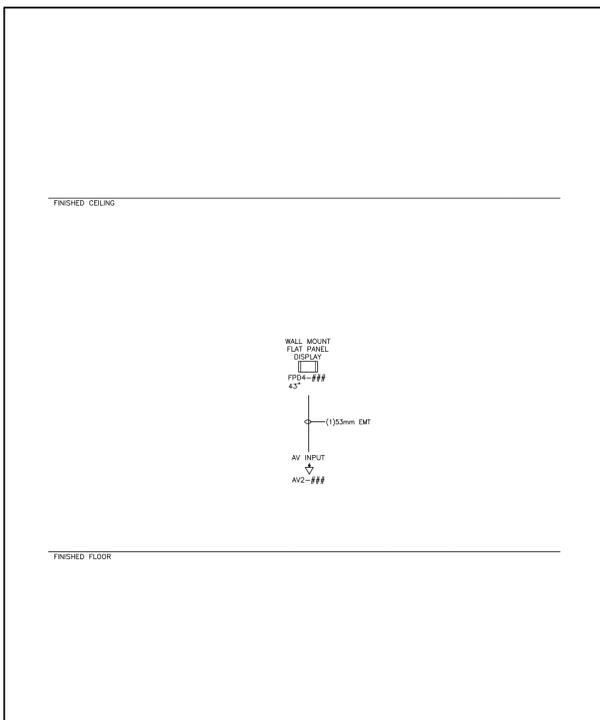


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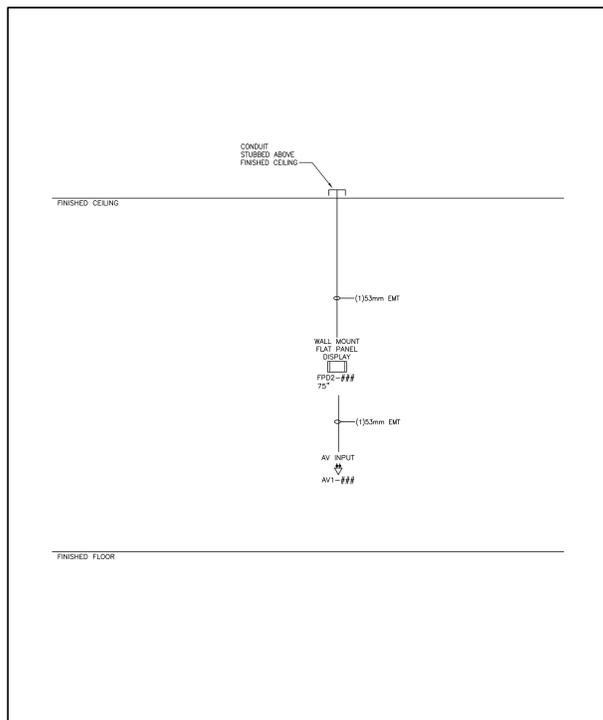
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Project: No.08086.000(MEAVD) Scale: AS NOTED
Drawing No.

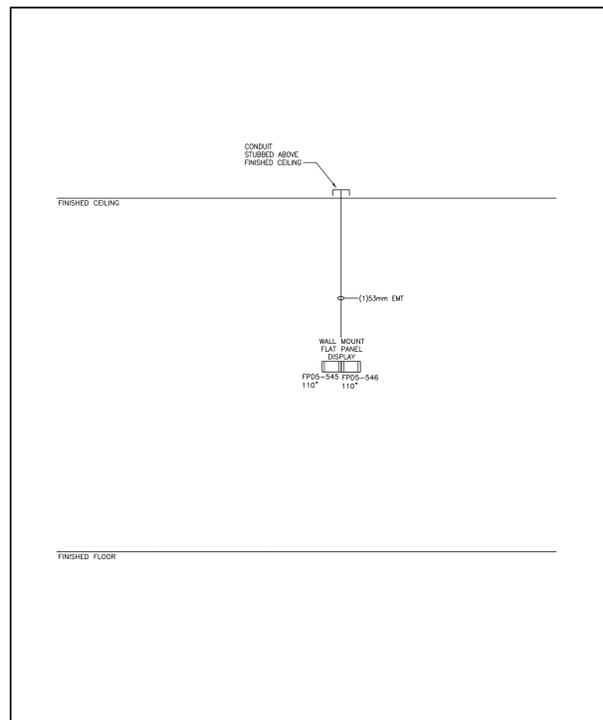
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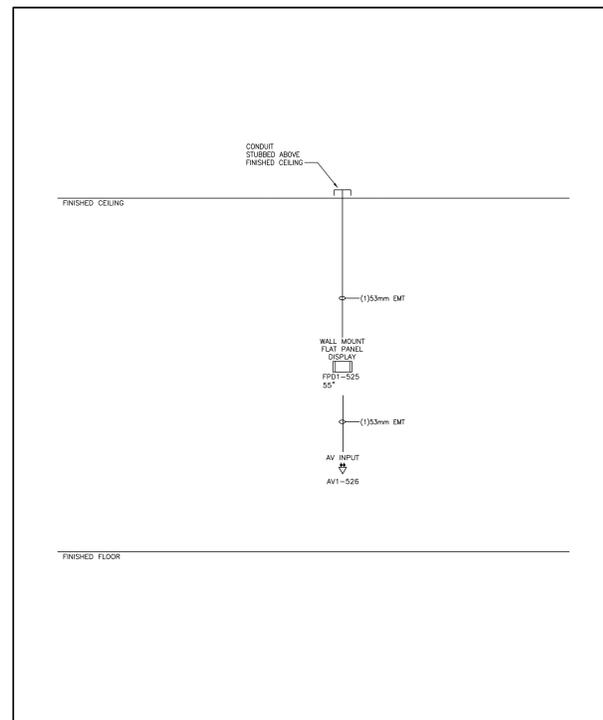
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0301 TYPE 4 - OPEN COLLABORATION TABLES
AV RISER DIAGRAM



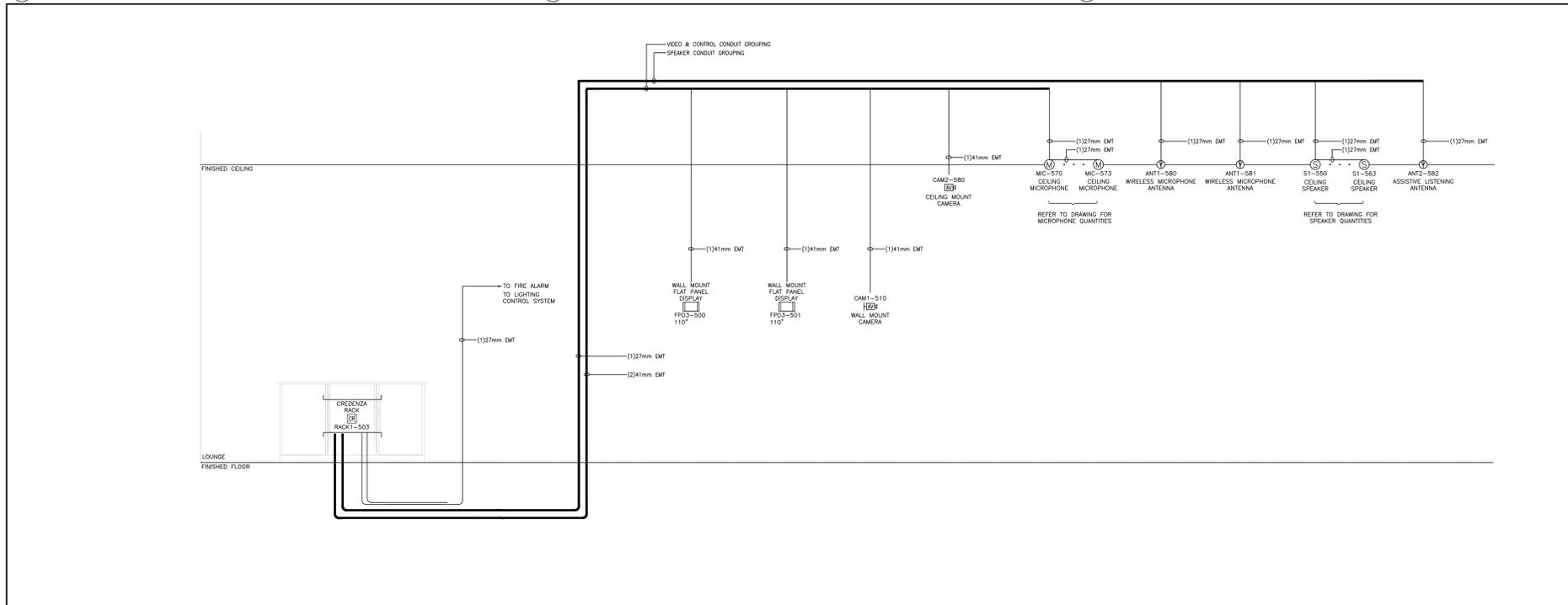
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0302 TYPE 1B - COLLABORATION ROOMS
AV RISER DIAGRAM



3
0303 TYPE 2 - DIGITAL LOUNGE
AV RISER DIAGRAM



1
0304 TYPE 1A - COLLABORATION ROOM
AV RISER DIAGRAM



2
0305 TYPE 3 - TEACHING LAB
AV RISER DIAGRAM

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1.	2024.09.27	ISSUED FOR REFERENCE

PROJECT CONTACT	
NAME:	DAT GALARDO
TEL:	416 572 8503
Email:	dat.galardo@smithandandersen.com

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ADDITIONAL SPECIFICATION SUBMITTED FOR THIS PROJECT.

Smith + Andersen
1100 - 100 Prospect Ave. East, Toronto, ON M2H 4H3
416 497 8111 • 416 497 8116 smithandandersen.com

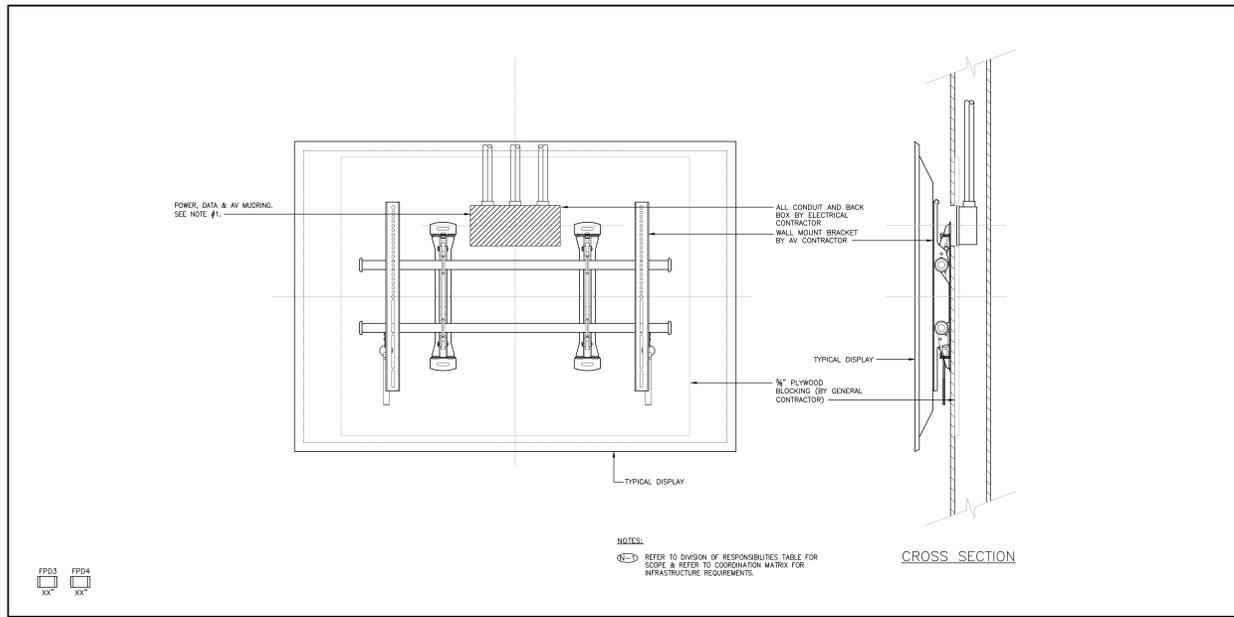
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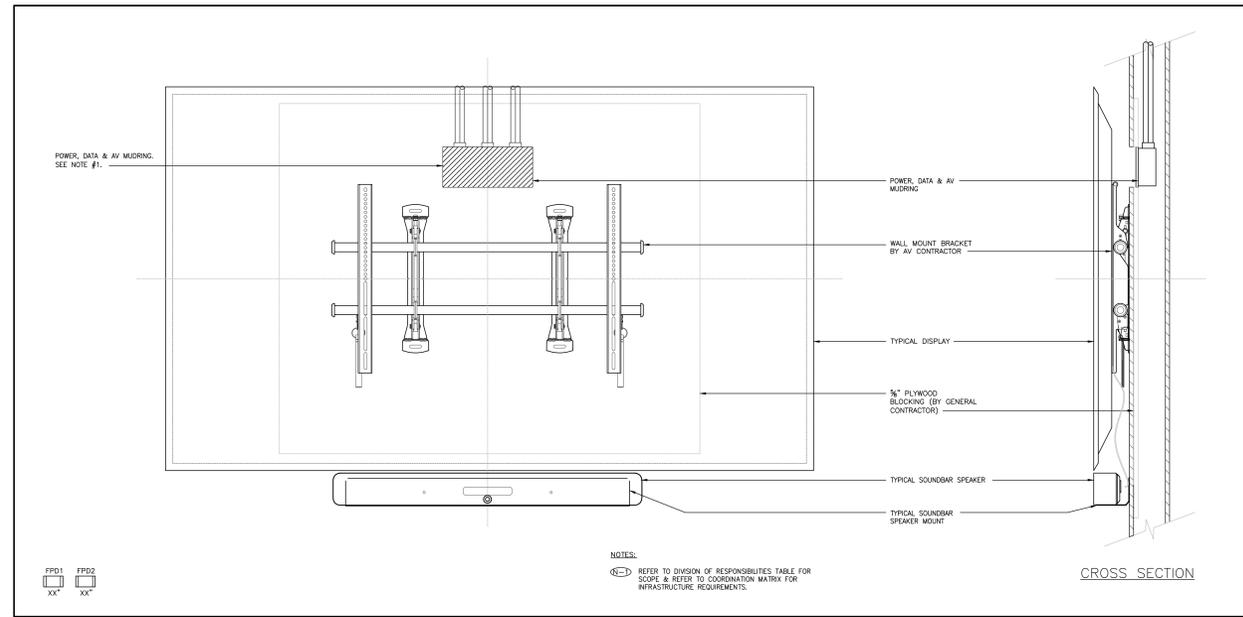
AV RISER DIAGRAMS

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Drawing No.

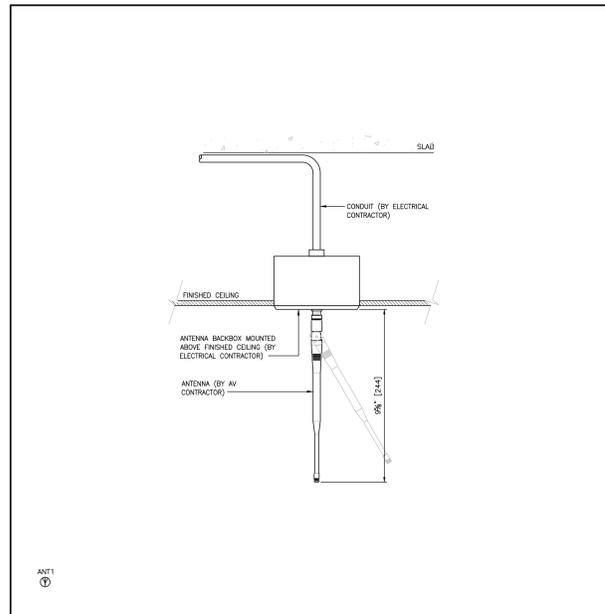
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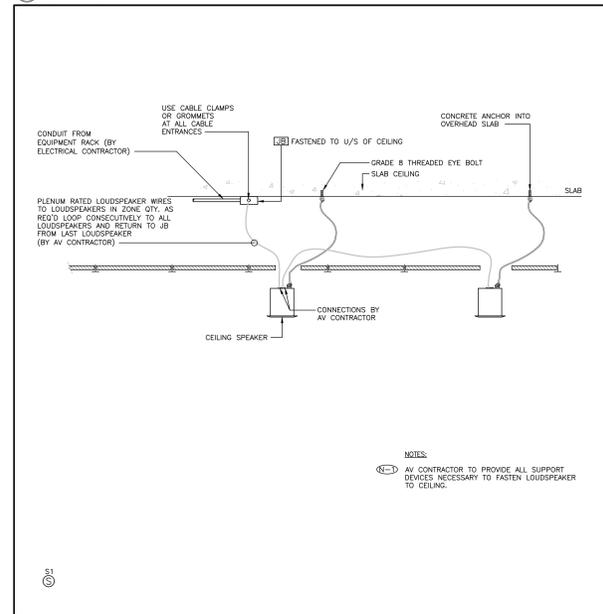
4 WALL MOUNT FLAT PANEL DISPLAY
SCALE: NTS



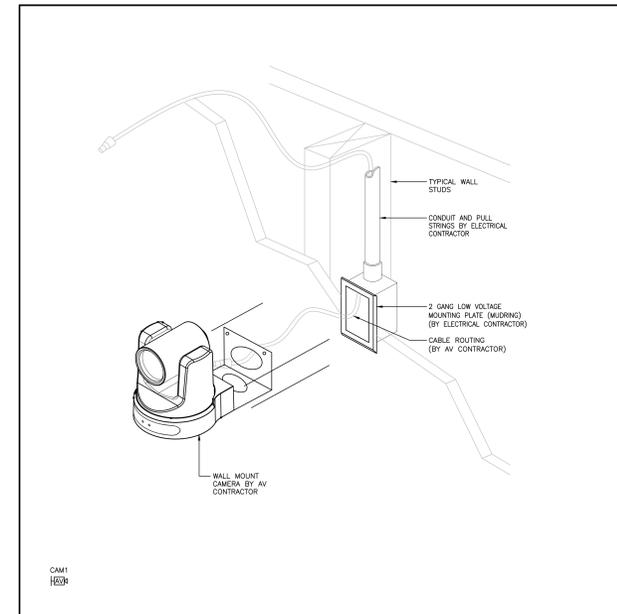
4 WALL MOUNT DISPLAY W/ SOUND BAR
SCALE: NTS



3 TYPICAL WIRELESS MICROPHONE ANTENNA
SCALE: NTS



3 TYPICAL CEILING SPEAKER INSTALLATION INTO TILE
SCALE: NTS



2 WALL MOUNT CAMERA
SCALE: NTS

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PROJECT CONTACT	
NAME:	DAT CALARDO
TEL:	416 572 8503
EMAIL:	pat.galardo@smithandandersen.com

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Smith + Andersen
1100 - 100 Sheppard Ave. East, Toronto, ON M2N 6K3
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AV DETAILS

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AV400