

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FLUSH MOUNTED SINGLE TUB PANEL RATING AS NOTED ON SINGLE LINEPANEL SCHEDULE		FLUSH MOUNTED DOUBLE TUB PANEL RATING AS NOTED ON SINGLE LINEPANEL SCHEDULE
	SURFACE MOUNTED SINGLE TUB PANEL RATING AS NOTED ON SINGLE LINEPANEL SCHEDULE		SURFACE MOUNTED DOUBLE TUB PANEL RATING AS NOTED ON SINGLE LINEPANEL SCHEDULE
	TRANSFORMER (SIZE NOTED ON SINGLE LINE DIAGRAM)		DISCONNECT
	COMBINATION MANUAL STARTER WITH INTEGRAL DISCONNECT		COMBINATION STARTER WITH INTEGRAL DISCONNECT
	DIRECT CONNECTION		RELAY
	MOTOR AND DISCONNECT		MOTOR AND RELAY DISCONNECT
	MOTOR AND COMBINATION STARTER WITH INTEGRAL DISCONNECT		UTILITY METERING CABINET
	VARIABLE FREQUENCY DRIVE AND VFD CABLE CONNECTION TO MOTOR, LINE AND LOAD SEE WIRING OF HARMONIC FILTER AND VFD BY ELECTRICAL CONTRACTOR		CLOCK WALL MOUNTED
	VARIABLE FREQUENCY DRIVE, LINE AND LOAD SEE WIRING OF HARMONIC FILTER AND VFD BY ELECTRICAL CONTRACTOR		CLOCK CEILING MOUNTED
	HARMONIC FILTER (SUPPLIED BY MECH. CONTRACTOR UNLESS NOTED OTHERWISE) LINE AND LOAD SEE WIRING OF HARMONIC FILTER BY ELECTRICAL CONTRACTOR		PUSH BUTTON
			MOTOR

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 - DELTA/WYE UNLESS OTHERWISE NOTED		EMERGENCY GENERATOR
	LOW VOLTAGE BREAKOUT CIRCUIT BREAKER, TRIP PLUG AND FRAME SIZE AS SHOWN		GROUND CONNECTION POINT
	DRAWOUT VACUUM CIRCUIT BREAKER, PROTECTIVE RELAY FUNCTIONS AND FRAME SIZE AS SHOWN		ELECTRONIC TRIP SETTING CONTROL (GROUND FAULT)
	FUSIBLE LOAD BREAK ISOLATION SWITCH, VOLTAGE, FUSE AND FRAME SIZE AS SHOWN		GROUND LOOP
	FUSE		HIGH RESISTANCE GROUND FAULT SYSTEM
	INSULATED CASE CIRCUIT BREAKER		LIGHTNING SURGE ARRESTOR
	INTEGRAL BREAKER AND STARTER UNIT, BREAKER AND FRAME SIZE AS SHOWN		LOAD BANK
	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 BYPASS		ELECTRONIC TRIP SETTING CONTROL (LONG, SHORT, INSTANTANEOUS, GROUND FAULT)
	AUTOMATIC TRANSFER SWITCH WITHOUT BYPASS		METERING SOCKET
	FIRE PUMP AUTOMATIC TRANSFER SWITCH AND STARTER UNIT BY OTHERS		METERING CABINET
	MANUAL TRANSFER SWITCH OR DOUBLE THROW SWITCH		DIGITAL ELECTRONIC METER
	AMMETER		SURGE PROTECTION DEVICE
	AUTO TRANSFORMER		
	BATTERY		
	CONTACTOR		
	CURRENT TRANSFORMER		
	CURRENT TRANSFORMER (2:5 - 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 - N LOCKS, N+1 LOCKS UNLESS NOTED OTHERWISE
	UPS DIODE		ELECTRONIC INTERLOCK SYSTEM - N LOCKS
	VOLTAGE INDICATOR		MEDIUM VOLTAGE CABLE TERMINATION POINT WITH STRESS CONE
	DENOTES CONNECT VFD LOAD APPLIED TO DESIGNATED APPARATUS		ELECTRONIC TRANSDUCER TEMPERATURE RELAY
	AUTOMATIC POWER FACTOR CORRECTION CAPACITOR BANK, 20 AMP CSA 5-15R, DEDICATED CIRCUIT, COMPLETE WITH TUNED RPNV FILTER, HIGH RESISTANCE GROUNDING RESISTOR - MAXIMUM CONTINUOUS AMPS AS SHOWN		POWER METER
	RELAY FUNCTION NUMBER		DIGITAL TRIP UNIT WITH METERING FUNCTION
			SHUNT TRIP
			IP BASED 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, TYPE DENOTED BY 'X' REFER TO OCCUPANCY SENSOR SCHEDULE		
	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 OUTLETS, CABLE TYPE AS PER SPECIFICATION		WALL MOUNTED VOICE OUTLET FOR EMERGENCY PHONE STATION, CABLE TYPE AS PER SPECIFICATION
	WALL MOUNTED ABOVE COUNTER VOICE AND DATA OUTLETS, CABLE TYPE AS PER SPECIFICATION		COMMUNICATIONS INTERCOM
	WALL MOUNTED VOICE OUTLETS, CABLE TYPE AS PER SPECIFICATION		SERVICE POLE MOUNTED VOICE AND DATA OUTLETS, CABLE TYPE AS PER SPECIFICATION
	WALL MOUNTED ABOVE COUNTER VOICE OUTLETS, CABLE TYPE AS PER SPECIFICATION		REROUTE MOUNTED VOICE AND DATA OUTLETS, CABLE TYPE AS PER SPECIFICATION
	WALL MOUNTED ABOVE COUNTER DATA OUTLETS, CABLE TYPE AS PER SPECIFICATION		COAXIAL CATV OUTLET
	FLOOR MOUNTED VOICE AND DATA OUTLETS, CABLE TYPE AS PER SPECIFICATION		MAIN CABLE SUPPORT ROUTE FOR COMMUNICATIONS CABLING
	FLOOR MOUNTED VOICE OUTLETS, CABLE TYPE AS PER SPECIFICATION		COMMUNICATIONS BOX
	FLOOR MOUNTED DATA OUTLETS, CABLE TYPE AS PER SPECIFICATION		POWER ZONE BOX
	FURNITURE MOUNTED VOICE AND DATA OUTLETS, CABLE TYPE AS PER SPECIFICATION		TELEPHONE ZONE BOX
	FURNITURE MOUNTED VOICE OUTLETS, CABLE TYPE AS PER SPECIFICATION		
	FURNITURE MOUNTED DATA OUTLETS, CABLE TYPE AS PER SPECIFICATION		
	CEILING MOUNTED VOICE AND DATA OUTLETS, CABLE TYPE AS PER SPECIFICATION		
	CEILING MOUNTED DATA OUTLETS, 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, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED ABOVE COUNTER DUPLEX RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R (1-SLOT)		WALL MOUNTED ABOVE COUNTER DUPLEX RECEPTACLE 120 VOLT, 20 AMP, CSA 5-20R (2-SLOT)
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, DEDICATED CIRCUIT		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL
	WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-15R, REFER TO DETAIL		WALL MOUNTED DUPLEX RECEPTACLE 120 VOLT, 15 AMP, CSA 5-1

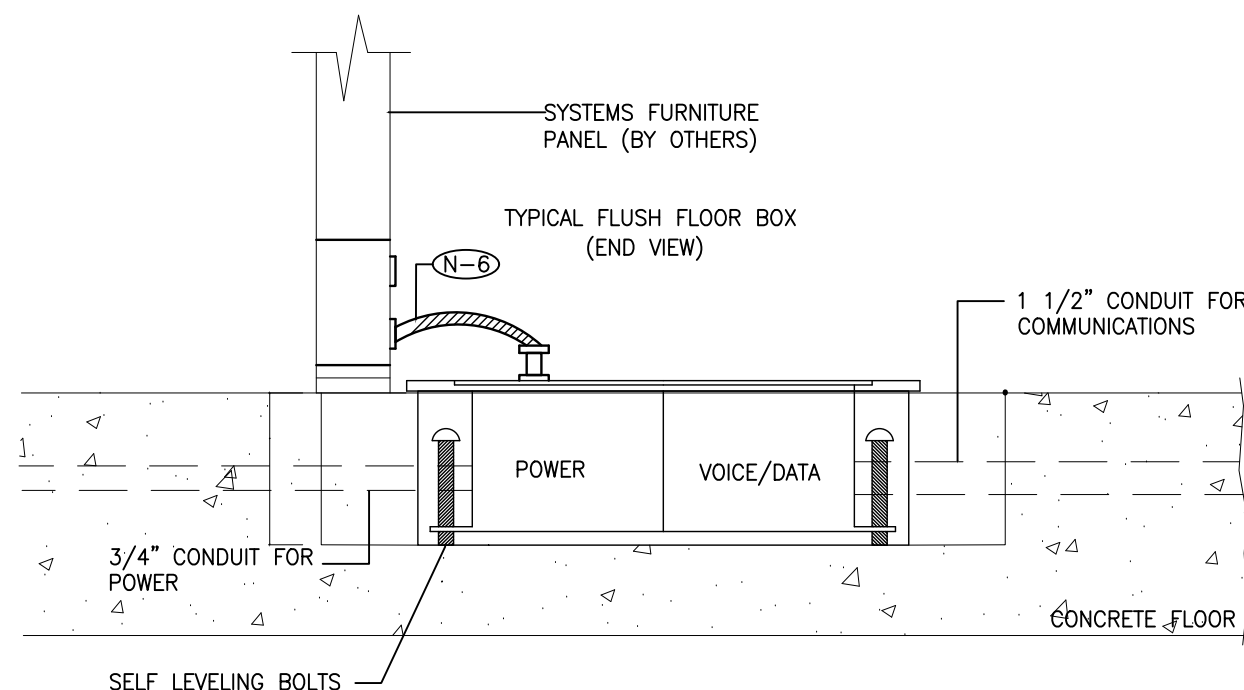
LUMINAIRE SCHEDULE			
	LAMP TYPE	VOLTAGE	DESCRIPTION
L1	26.3W LED 3500K 2000 LUMENS	120	6" LED DOWNLIGHT.
L4	11.5W/FT LED 1500 LUMENS/FT	UNV	LINEAR DIRECT/INDIRECT LED PENDANT C/W 0-10V DIMMING.
L4A	11.5W/FT LED 1500 LUMENS/FT	UNV	LINEAR DIRECT/INDIRECT LED PENDANT C/W 0-10V DIMMING.
L4B	11.5W/FT LED 1500 LUMENS/FT	UNV	LINEAR DIRECT/INDIRECT LED PENDANT C/W 0-10V DIMMING.
L5		UNV	EXISTING DOWNLIGHT RELAMPED WITH LED, MATCH CCT AND EQUIVALENT WATTAGE WITH EXISTING.
L6	40W LED 3500K 4000 LUMENS	UNV	SURFACE MOUNTED CAN LIGHT C/O 0-10V DIMMING.
L7	44W LED 3500K 4500 LUMENS	UNV	72 DEGREE CYLINDER C/W 0-10V DIMMING.
L8	22W LED 3500K 1660 LUMENS	UNV	TRACK HEAD, 35 DEGREE, C/W ELV DIMMING AND EURLITE GLOBAL PRO PLUS TRACK SYSTEM.
L9	20W LED 3500K 1125 LUMENS	UNV	TRACK MOUNTED CYLINDER, 45 DEGREE, C/W ELV DIMMING AND EURLITE GLOBAL PRO PLUS TRACK SYSTEM.
L10	4.2W X 6 LED 3500K 280 X 6 LUMENS		SUSPENDED DECORATIVE FIXTURE WITH 6 LUMINAIRES PER PENDANT.
L11	40W LED 3500K 4000 LUMENS	UNV	RECESSED 8" LINEAR FIXTURE C/W 0-10V DIMMING.
X1	2.5W LED	120-347	NEW RECESSED EDGE-LIT PICTOGRAM (RUNNING MAN) LED EXIT SIGN

#### NOTES

- (N-1) THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT FOR ALL MOUNTING HEIGHTS, COLOUR TEMPERATURES, AND FINISHED COLOURS PRIOR TO PROCUREMENT.
- (N-2) REFER TO DRAWINGS FOR EXIT SIGN QUANTITIES, FACE, LOCATION, AND CHEVRON REQUIREMENTS.

#### LUMINAIRE SCHEDULE

N.T.S



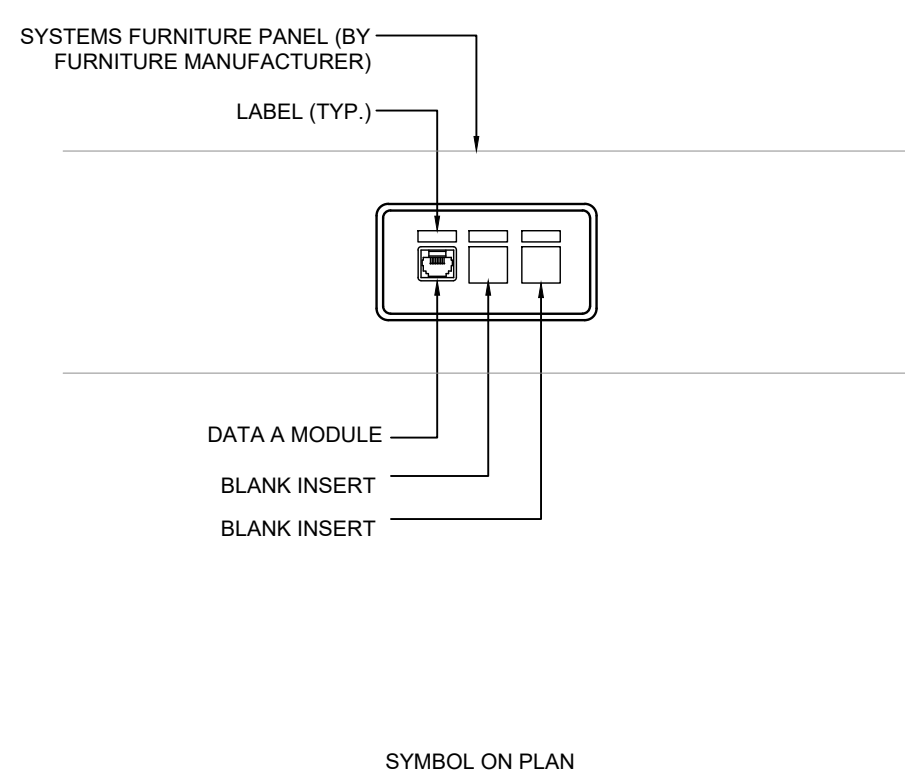
DRAWING SYMBOLS

#### NOTES

- (N-1) ALLOW FOR X-BAY, CORING, CHIPPING AND CHASING, AND PATCHING IN ACCORDANCE WITH BUILDING STANDARDS.
- (N-2) CO-ORDINATE EXACT LOCATIONS OF VP FLOOR MONUMENTS ON SITE PRIOR TO ROUGH-IN.
- (N-3) FLOOR OUTLETS SHALL BE WELLMARK 442 SERIES \*420-FRN-3/4P-1 1/2", COLOUR TO DESIGNERS SELECTION.
- (N-4) PROVIDE CONNECTOR C/W NYLON BUSHINGS FOR CONDUIT TERMINATIONS WITHIN ACCESSIBLE CEILING SPACE.
- (N-5) PROVIDE PULL STRING IN ALL EMPTY CONDUITS.
- (N-6) FURNITURE MANUFACTURER SUPPLIED WIRING HARNESS, ELECTRICAL CONTRACTOR TO TERMINATE USING VP REX CONNECTOR SIZED TO MATCH HARNESS.
- (N-7) COMMUNICATION CONTRACTOR TO PROVIDE ALL COMMUNICATION/WIRING AND COMPONENTS.

#### FURNITURE SYSTEM CONNECTION-FLOOR FEED (POWER&COMM)

N.T.S



SYMBOL ON PLAN

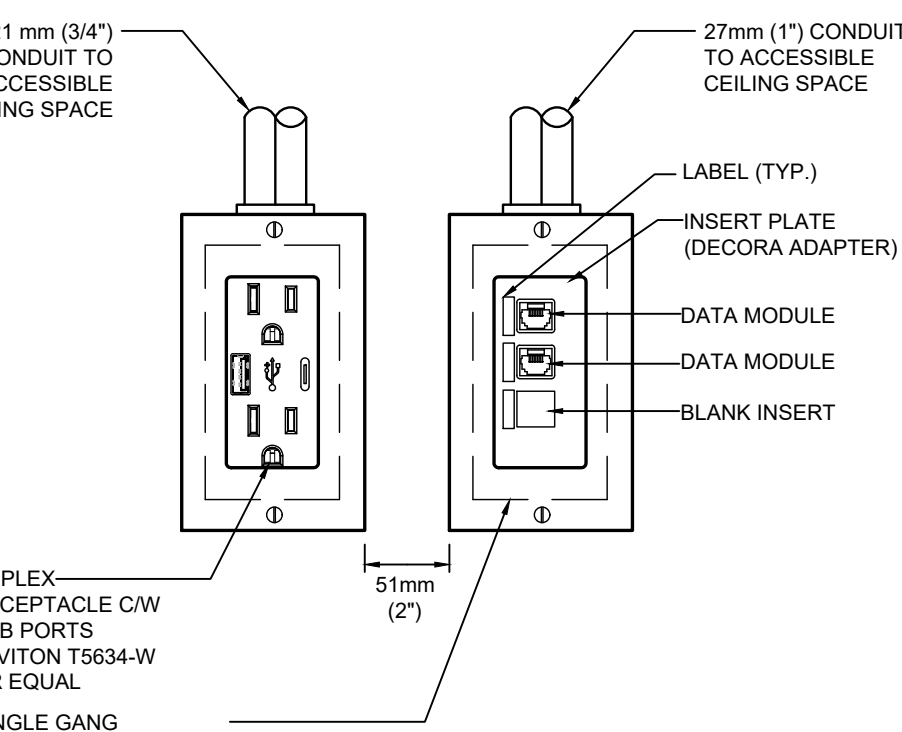
7

#### NOTES

- (N-1) REFER TO COMMUNICATIONS CABLING LAYOUT FOR EXACT DATA/VOICE OUTLET QUANTITIES.
- (N-2) FOR COMMUNICATIONS CABLING, FACEPLATE, INSERT PLATES, JACKS, BLANK INSERT AND LABELING REFER TO COMMUNICATIONS SPECIFICATION.

#### TYPICAL FURNITURE MOUNTED COMMUNICATIONS OUTLET DETAIL

N.T.S



DRAWING SYMBOLS

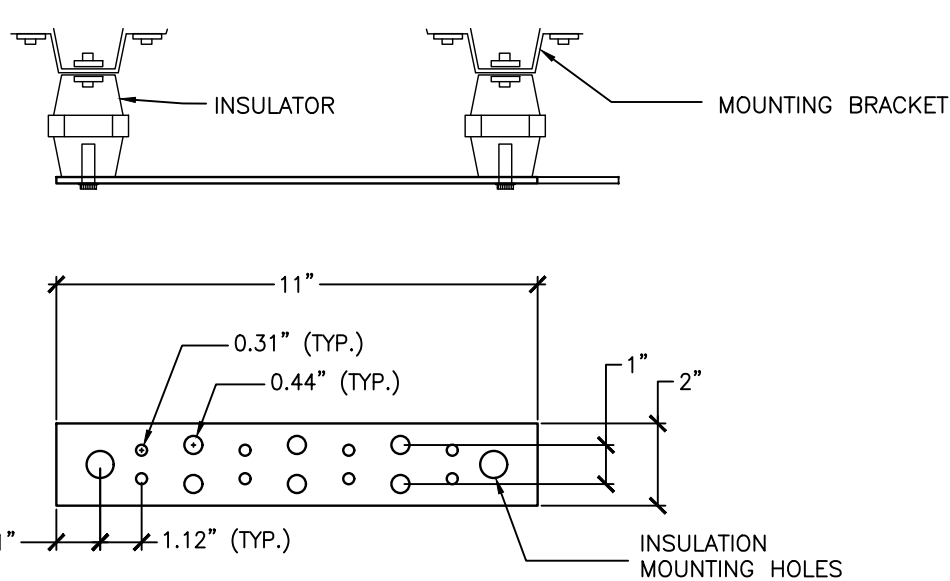
10

#### NOTES

- (N-1) PROVIDE CONNECTOR, C/W NYLON BUSHINGS FOR CONDUIT TERMINATIONS WITHIN ACCESSIBLE CEILING SPACE.
- (N-2) PROVIDE PULL STRINGS IN ALL EMPTY CONDUIT.
- (N-3) COVER PLATES BY ELECTRICAL CONTRACTOR.
- (N-4) COMMUNICATION CONTRACTOR TO PROVIDE ALL COMMUNICATION / WIRING AND COMPONENTS.

#### POWER, USB AND COMMUNICATION OUTLETS

N.T.S



BAR LENGTH (INCHES)	BAR SIZE (AWG)
LESS THAN 4 (13)	6 [4.1mm (0.16 in)]
4 TO 6 (13 TO 20)	4 [5.2mm (0.20 in)]
6 TO 8 (20 TO 26)	3 [5.8mm (0.23 in)]
8 TO 10 (26 TO 33)	2 [6.5mm (0.26 in)]
10 TO 12 (33 TO 40)	1 [7.6mm (0.29 in)]
12 TO 14 (40 TO 48)	1/2 [12.4mm (0.49 in)]
14 TO 16 (48 TO 56)	3/8 [14.3mm (0.56 in)]
16 TO 20 (56 TO 66)	3/4 [19.0mm (0.75 in)]
GREATER THAN 20 (66)	3/4 [19.0mm (0.75 in)]

DRAWING SYMBOL

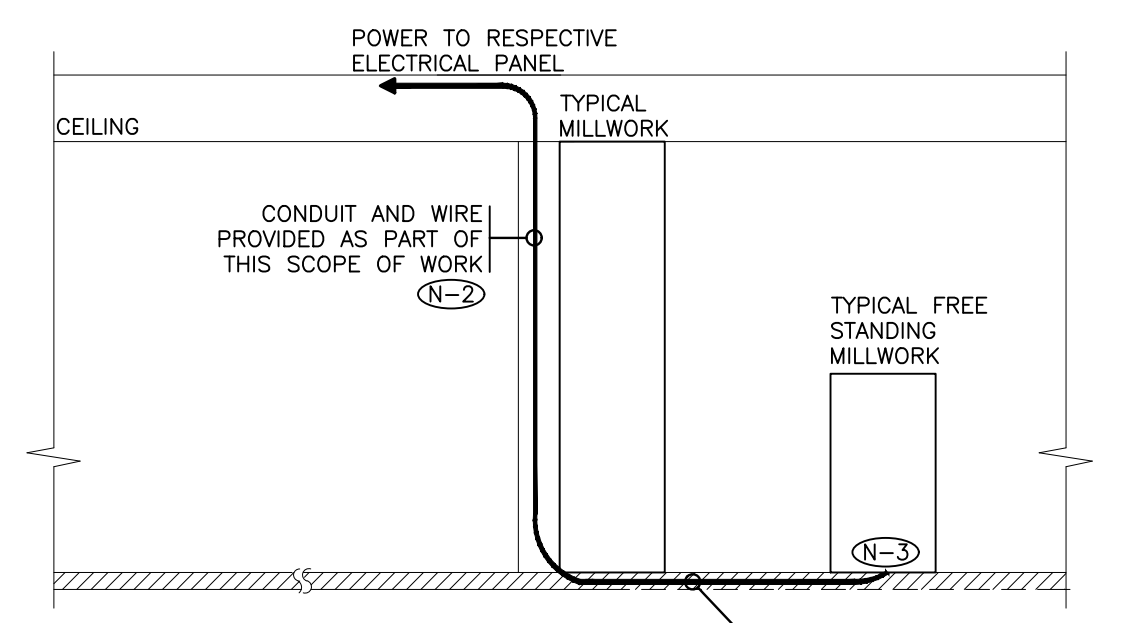
11

#### NOTES

- (N-1) GROUNDING BUS BAR SHALL BE MOUNTED ON PLYWOOD BACKBOARD OR WALL AT 80" A.F.F.
- (N-2) GROUNDING BUS BAR KIT SHALL BE PENDUIT (Q2803041) OR EQUIVALENT.
- (N-3) PENDUIT GROUNDING BUS BAR KIT COMES FULLY ASSEMBLED.
- KIT INCLUDES:  
BUSBAR - QTY. 1  
MOUNTING BRACKET QTY. 2  
INSULATORS - QTY. 2  
3/8" FLAT WASHERS - QTY. 4  
3/8" LOCK WASHERS - QTY. 4  
3/8" X 5/8" CAP SCREWS - QTY. 2  
3/8" X 3/4" CAP SCREWS - QTY. 2
- (N-4) ALL ITEMS (GROUNDING BUS BAR KIT, BONDING BACKBONE WIRE, ETC) BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
- (N-5) ELECTRICAL CONTRACTOR TO 16-in GROUND BUS BAR TO BASE BUILDING MAIN GROUND LOCATED IN THE BASE BUILDING ELECTRICAL ROOM, SIZES AS PER SCHEDULE ABOVE.

#### GROUNDING BUS BAR

N.T.S



DRAWING SYMBOLS

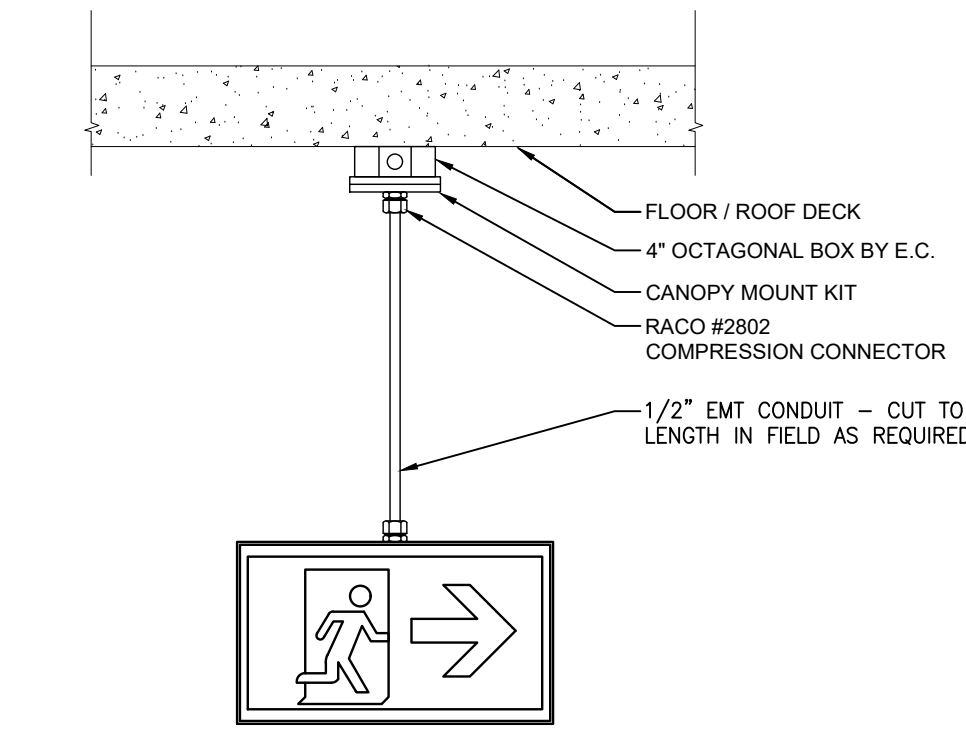
12

#### NOTES

- (N-1) POWER CONDUIT INDICATED SHALL BE INSTALLED WITHIN GROUT BED ABOVE STRUCTURAL SLAB. COORDINATE INSTALLATION ON SITE WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN. SEND RADIUS OF CONDUIT MUST BE CONCEALED WITHIN MILLWORK.
- (N-2) ROUTE CONDUIT AND WIRE WITHIN WALL CAVITY OR SURFACE MOUNTED ON COLUMN. COORDINATE INSTALLATION ON SITE WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
- (N-3) CONDUIT TO BE FLUSH WITH FLOOR. COORDINATE INSTALLATION ON SITE WITH GENERAL CONTRACTOR PRIOR TO CUTTING BACK CONDUIT.

#### FREE STANDING MILLWORK STUB UP DETAIL (TRENCHING)

N.T.S

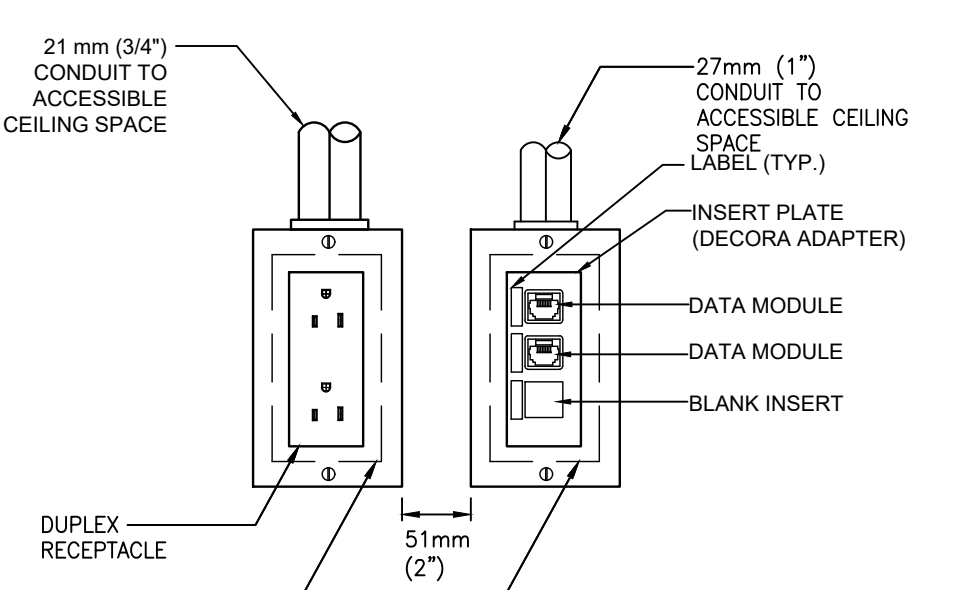


#### NOTES

- (N-1) INSTALL PENDANT EXIT SIGNS AS PER MANUFACTURER'S RECOMMENDATIONS. ALLOW FOR ALL NECESSARY COMPONENTS.
- (N-2) PENDANT EXIT SIGNS SHALL BE INSTALLED IN EXPOSED CEILING AREAS. REFER TO FLOOR PLANS FOR CEILING TYPES, QUANTITIES, FACE AND CHEVRON REQUIREMENTS. TOP OF SIGN TO BE MOUNTED BELOW UNDERSIDE OF SUSPENDED LIGHT FIXTURES AND/OR CEILING. ENSURE EXIT SIGN IS VISIBLE AND CLEAR OF VISUAL OBSTRUCTIONS.

#### PENDANT EXIT SIGN DETAIL

N.T.S



DRAWING SYMBOLS

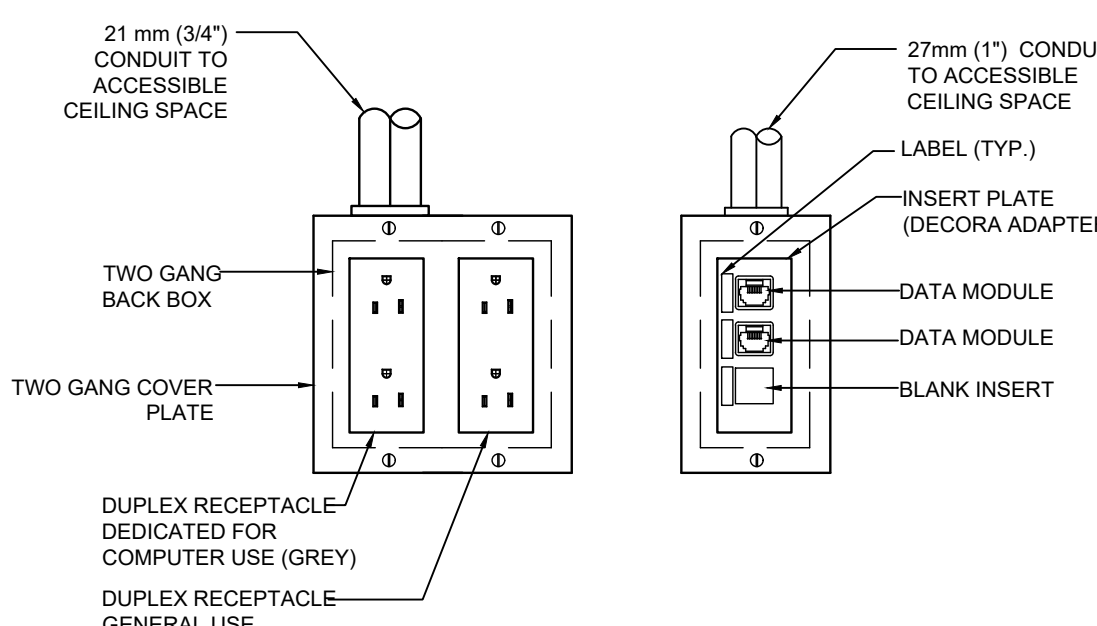
13

#### NOTES

- (N-1) PROVIDE CONNECTOR, C/W NYLON BUSHINGS FOR CONDUIT TERMINATIONS WITHIN ACCESSIBLE CEILING SPACE.
- (N-2) PROVIDE PULL STRINGS IN ALL EMPTY CONDUIT.
- (N-3) COVER PLATES BY DIVISION 16.
- (N-4) COMMUNICATION CONTRACTOR TO PROVIDE ALL COMMUNICATION / WIRING AND COMPONENTS.

#### POWER AND COMMUNICATION OUTLETS

N.T.S



DRAWING SYMBOLS

14

#### NOTES

- (N-1) PROVIDE CONNECTOR, C/W NYLON BUSHINGS FOR CONDUIT TERMINATIONS WITHIN ACCESSIBLE CEILING SPACE.
- (N-2) PROVIDE PULL STRINGS IN ALL EMPTY CONDUIT.
- (N-3) COVER PLATES BY ELECTRICAL CONTRACTOR.
- (N-4) COMMUNICATION CONTRACTOR TO PROVIDE ALL COMMUNICATION / WIRING AND COMPONENTS.

#### POWER AND COMMUNICATION OUTLETS

N.T.S

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
ACCESS CONTROL			
<b>ACCESS</b>	ACCESS CONTROL SYSTEM PANEL	<b>KEY</b>	KEY SWITCH
<b>ACCESS</b>	ACCESS CONTROL SYSTEM SERVER	<b>LATCH</b>	LATCH BOLT MONITOR
<b>ADO</b>	AUTOMATIC DOOR OPERATOR	<b>LATCH</b>	LATCH BOLT MONITOR REQUEST TO EXIT
<b>BI</b>	BIOMETRIC READER	<b>MR</b>	MAGLOCK KEY RESET SWITCH
<b>CR</b>	CARD READER	<b>MD</b>	MAGNETIC DOOR HOLD/OPEN DEVICE
<b>CM</b>	CENTRAL MANAGEMENT STATION	<b>ML</b>	MAGNETIC LOCK
<b>DA</b>	DOOR ALARM	<b>MO</b>	MOTION REQUEST TO EXIT
<b>DC</b>	DOOR CONTACT	<b>PSCU</b>	POWER SUPPLY CONTROL UNIT
<b>EDD</b>	ELECTRIC DOOR HOLD/OPEN DEVICE	<b>PB</b>	PUSH BUTTON DOOR OPERATOR
<b>ELR</b>	ELECTRIC LATCH RETRACTION	<b>PR</b>	PUSH BUTTON REQUEST TO EXIT
<b>ELM</b>	ELECTRIC MORTISE LOCK	<b>RL</b>	REMOTE RELEASE
<b>ES</b>	ELECTRIC STRIKE	<b>RF</b>	RF NODE
<b>GW</b>	GATEWAY	<b>RF</b>	RF RECEIVER
<b>ICD</b>	IP DOOR CONTROLLER	<b>SD</b>	SECURITY DOOR TAG. XX DENOTES TYPE
<b>ENC</b>	KEY ENCODER	<b>WL</b>	WIRELESS LOCK
REAL TIME LOCATING SYSTEM (RTLS)			
<b>EX</b>	LOW FREQUENCY EXCITER	<b>RF</b>	RF READER MASTER
<b>IR</b>	INFRARED READER	<b>RF</b>	RF READER
<b>RD</b>	REMOTE DISPLAY UNIT	<b>RF</b>	RF ETHERNET READER
<b>RS</b>	LOCAL AREA RECEIVER	<b>RF</b>	RF LONG RANGE READER

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

#### SECURITY LEGEND 1 OF 2

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
ELECTRONIC PERSONAL PROTECTION			
<b>EPS</b>	EMERGENCY PHONE STATION	<b>DA</b>	DURESS ALARM STATION
<b>SL</b>	STROBE LIGHT	<b>PAR</b>	PANIC ALARM RECEIVER
<b>PB</b>	PANIC BUTTON	<b>ASR</b>	ASSISTANCE REQUIRED SIGN
INTERCOM LEGEND			
<b>IC</b>	INTERCOM	<b>MC</b>	MASTER INTERCOM
<b>EN</b>	ENTRY PHONE CONSOLE		
VIDEO SURVEILLANCE			
<b>FC</b>	FIXED CAMERA	<b>VSSB</b>	VIDEO SURVEILLANCE SYSTEM SERVER
<b>PZ</b>	PAN/TILT-ZOOM CAMERA	<b>PI</b>	POWER INJECTOR
<b>PC</b>	PERSONAL COMPUTER	<b>VM</b>	VIDEO MONITOR
<b>CM</b>	COMPUTER MONITOR		FIXED VIDEO SURVEILLANCE CAMERA HORIZONTAL ANGLE OF VIEW
<b>DVR</b>	DIGITAL VIDEO RECORDER		LCD MONITOR, SIZE AS INDICATED
<b>NVR</b>	NETWORK VIDEO RECORDER		
INTRUSION DETECTION			
<b>BR</b>	BREN	<b>ISPS</b>	INTRUSION DETECTION SYSTEM PANEL
<b>BD</b>	BREAK GLASS SENSOR	<b>PS</b>	POWER SUPPLY
<b>MS</b>	MOISTURE SENSOR	<b>WS</b>	WALL MOUNTED SECURITY ACTION SENSOR
<b>K</b>	KEYPAD	<b>CS</b>	CEILING MOUNTED SECURITY 360° MOTION SENSOR

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

#### SECURITY LEGEND 2 OF 2

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
<b>AV</b>	AV EQUIPMENT RACK BY AUDIOVISUAL CONTRACTOR. REFER TO DRAWING FOR POWER REQUIREMENTS. AV-FREE STANDING EQUIPMENT RACK OR CREDENZA RACK. 12x12x4" AV PULL BOX BY ELECTRICAL CONTRACTOR. 180° RACK ON CASTERS. 12x12x4" AV PULL BOX BY ELECTRICAL CONTRACTOR.	<b>AV</b>	PROJECTOR BY AUDIOVISUAL CONTRACTOR. 60x60" AV PULL BOX ABOVE FINISHED CEILING BY ELECTRICAL CONTRACTOR. REFER TO DRAWING FOR POWER REQUIREMENTS.
<b>AV</b>	WALL MOUNTED FLAT PANEL DISPLAY BY AUDIOVISUAL CONTRACTOR. 2 GANG AV MOUNTING BY ELECTRICAL CONTRACTOR. REFER TO DRAWING FOR POWER REQUIREMENTS. 10" INDICATES DIGITAL SIGNAGE DISPLAY. REQUIRES POWER AND DATA ONLY.	<b>AV</b>	PROJECTOR ON LEFT BY AUDIOVISUAL CONTRACTOR. CONDUIT FOR LOW VOLTAGE CONTROL BY ELECTRICAL CONTRACTOR. REFER TO DRAWING FOR POWER REQUIREMENTS.
<b>AV</b>	CEILING MOUNTED FLAT PANEL DISPLAY BY AUDIOVISUAL CONTRACTOR. 2 GANG AV MOUNTING BY ELECTRICAL CONTRACTOR. REFER TO DRAWING FOR POWER REQUIREMENTS. 10" INDICATES DIGITAL SIGNAGE DISPLAY. REQUIRES POWER AND DATA ONLY.	<b>AV</b>	CEILING RECESSED SPEAKER BY AUDIOVISUAL CONTRACTOR.
<b>AV</b>	WALL MOUNTED ANTENNA BY AUDIOVISUAL CONTRACTOR. 2 GANG AV MOUNTING BY ELECTRICAL CONTRACTOR. REFER TO DRAWING FOR POWER REQUIREMENTS.	<b>AV</b>	SURFACE MOUNTED SPEAKER BY AUDIOVISUAL CONTRACTOR. 1 GANG AV BACK BOX BY ELECTRICAL CONTRACTOR. WALL MOUNTED ANTENNA BY AUDIOVISUAL CONTRACTOR. 1 GANG AV BACK BOX BY ELECTRICAL CONTRACTOR.
<b>AV</b>	CEILING MOUNTED ANTENNA BY AUDIOVISUAL CONTRACTOR. 2 GANG AV MOUNTING BY ELECTRICAL CONTRACTOR. REFER TO DRAWING FOR POWER REQUIREMENTS.	<b>AV</b>	CEILING MOUNTED ANTENNA BY AUDIOVISUAL CONTRACTOR. 1 GANG AV BACK BOX ABOVE FINISHED CEILING BY ELECTRICAL CONTRACTOR.
<b>AV</b>	BUTTON CONTROL PANEL BY AUDIOVISUAL CONTRACTOR. ELECTRICAL CONTRACTOR TO REFER TO AV COORDINATION MATRIX ON AV DRAWING SET FOR BACKBOX SIZE.	<b>AV</b>	CEILING MICROPHONE BY AV CONTRACTOR. 1 GANG AV BACK BOX MOUNTED ABOVE FINISHED CEILING BY ELECTRICAL CONTRACTOR.
<b>AV</b>	FLOOR BOX CONNECTOR WITH AV DESIGNATED COMPONENT FOR TABLETOP CONNECTIVITY. AV PULL BOX BY ELECTRICAL CONTRACTOR. FLOOR BOX BY ELECTRICAL CONTRACTOR.	<b>AV</b>	AV MOUNTING BY AV CONTRACTOR. AV MOUNTING BY ELECTRICAL CONTRACTOR. 1 GANG AV BACK BOX BY ELECTRICAL CONTRACTOR. 1 GANG AV BACK BOX BY ELECTRICAL CONTRACTOR.
<b>AV</b>	WALL MOUNTED AV CAMERA BY AUDIOVISUAL CONTRACTOR. 1 GANG AV DEEP AV BACK BOX BY ELECTRICAL CONTRACTOR. 1 GANG AV DEEP AV BACK BOX BY ELECTRICAL CONTRACTOR. SIZE DESIGNATION: 10x12x12" 12x12x12" CABLE PULL BOX.	<b>AV</b>	AV BACKBOX BY AV CONTRACTOR. 3" DEEP AV BACKBOX BY ELECTRICAL CONTRACTOR. 1 GANG AV BACK BOX BY ELECTRICAL CONTRACTOR. 1 GANG AV BACK BOX BY ELECTRICAL CONTRACTOR.

NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS. REFER TO AV COORDINATION MATRIX OR AV CONSULTANT DRAWINGS FOR BACK BOX SIZE, MOUNTING HEIGHT AND ALL INFRASTRUCTURE REQUIREMENTS.

#### AUDIOVISUAL

N.T.S

Copyright. This design and drawings are the exclusive property of the Consultant and cannot be used for any purpose without the written consent of the Consultant. This drawing is not to be used for construction until issued for that purpose by the Consultant.

Prior to commencement of the Work the contractor shall verify all drawing dimensions, datum, and levels with the Contract documents and with the conditions on site; ascertain and discrepancies between the site and the contract documents, and bring these items to the attention of the consultant for clarification.

superk

COPYRIGHT IN THIS ELECTRONIC DOCUMENT BELONGS TO SMITH AND ANDERSEN. THIS ELECTRONIC DOCUMENT MAY NOT BE FORWARDED TO OTHERS, TRANSMITTED, DOWNLOADED OR REPRODUCED IN ANY FORMAT, WHETHER PRINT OR ELECTRONIC, WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE COPYRIGHT OWNER. USE OF THIS ELECTRONIC DOCUMENT IS AT THE USER'S OWN RISK. THE USER SHALL INDEMNIFY AND SAVE HARMLESS THE ARCHITECT, HIS/HER EMPLOYEES, AGENTS AND CONSULTANTS FROM AND AGAINST ALL CLAIMS, LOSSES, DEMANDS, COSTS AND EXPENSES (INCLUDING LEGAL FEES), DAMAGES OR RECOVERIES (INCLUDING ANY AMOUNTS PAID IN SETTLEMENT) ARISING BY REASON OF, CAUSED, OR ALLEGED TO BE CAUSED, BY THE USER'S RELIANCE ON THIS ELECTRONIC DOCUMENT.

No.	Date	Revised or Construction
10	2024-02	RE ISSUED FOR CONSTRUCTION
9	2024-02	RE ISSUED FOR CONSTRUCTION
8	2024-02	ISSUED FOR CONSTRUCTION
7	2024-02	ISSUED FOR CONSTRUCTION
6	2024-02	ISSUED FOR CONSTRUCTION
5	2024-02	ISSUED FOR CONSTRUCTION
4	2024-02	ISSUED FOR CONSTRUCTION
3	2024-02	ISSUED FOR CONSTRUCTION
2	2024-02	ISSUED FOR CONSTRUCTION
1	2024-02	ISSUED FOR CONSTRUCTION

No. Date Issue/Revision

PROJECT CONTACT	
NAME:	Chris Zapp
TEL:	647 288 5479
EMAIL:	Chris.Zapp@smithandandersen.com

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

Smith + Andersen  
1109 - 100 Bloor Street East, Toronto, Ont. M4W 1A7  
Tel: 416 467 8101 Fax: 416 467 8102  
No. Date Issue/Revision

Roberts 5th Floor MDL  
Renovation

ELECTRICAL DETAILS AND  
LEGENDS

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

TE-0.2











superk<sup>2</sup>


COPYRIGHT IN THIS ELECTRONIC DOCUMENT BELONGS TO SMITH AND ANDERSEN. THIS ELECTRONIC DOCUMENT MAY NOT BE FORWARDED TO OTHERS, TRANSMITTED, REPRODUCED, COPIED, OR REPRODUCED IN ANY FORMAT, WHETHER PRINT OR ELECTRONIC, WITHOUT THE EXPRESS, WRITTEN PERMISSION OF THE COPYRIGHT OWNER. USE OF THIS ELECTRONIC DOCUMENT IS AT THE USER'S RISK. THE USER SHALL INDEMNIFY AND SAVE HARMLESS THE ARCHITECT, HIS/HER EMPLOYEES, AGENTS AND CONSULTANTS FROM AND AGAINST ALL DAMAGES, LOSSES AND EXPENSES (INCLUDING LEGAL FEES), DAMAGES OR RECOVERIES (INCLUDING ANY AMOUNTS PAID IN SETTLEMENT) ARISING BY WHATEVER CAUSE OR CAUSES CAUSED, BY THE USER'S RELIANCE ON THIS ELECTRONIC DOCUMENT.



5	2025-01-22	RE-ISSUED FOR CONSTRUCTION
4	2024-12-31	ISSUED FOR CONSTRUCTION
3	2024-08-21	ISSUED FOR TENDER
2	2024-08-16	ISSUED FOR PERMITTENDER
1	2024-08-02	ISSUED FOR 100% CD
No.	Date	Issue/Revision

PROJECT CONTACT	
NAME:	Greg Zapp
TEL:	847 288 5479
EMAIL:	Greg.Zapp@smithandandersen.com

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

 Smith + Andersen  
1100 – 100 Sheppard Ave. East, Toronto, ON, M2N 6N5  
416 487 8151 f 416 487 9104 [sv@smithandandersen.com](mailto:sv@smithandandersen.com)

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)  
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 500' (152.4 m)	POWER (TERMINALS 1&2) 1 PAIR 18 AWG (1.0 mm <sup>2</sup> )	GRX-CBL-346S (NON-PLENUM)
	DATA (TERMINALS 3-6) 1 PAIR 22 AWG (0.5 mm <sup>2</sup> ), TWISTED AND SHIELDED	GRX-CBL-346S (PLENUM)
500' (152.4 m) TO 2,000' (610 m)	POWER (TERMINALS 1&2) 1 PAIR 12 AWG (0.6 mm <sup>2</sup> )	GRX-CBL-46L (NON-PLENUM)
	DATA (TERMINALS 3-6) 1 PAIR 22 AWG (0.5 mm <sup>2</sup> ), TWISTED AND SHIELDED	GRX-CBL-46L (PLENUM)

\*ALTERNATE DATA-ONLY CABLE: USE APPROVED DATA LINK CABLE (22 AWG 0.5 mm<sup>2</sup>) TWISTED/SHIELDED FROM BELDEN (MODEL # 9491).

\*\*TOTAL LENGTH OF THE QS LINK MUST NOT EXCEED 2,000 ft (600 m).

- INPUT POWER (NORMAL-EMERGENCY)  
INPUT POWER (NORMAL)  
2 #12AWG (4 mm<sup>2</sup>)  
3 #12AWG (4 mm<sup>2</sup>)  
0-10V SIGNAL: 2 #18AWG (1.0 mm<sup>2</sup>)  
CONTACT CLOSURE SIGNAL: 2 #18AWG (1.0 mm<sup>2</sup>)  
CONTACT CLOSURE SIGNAL: 3 #18AWG (1.0 mm<sup>2</sup>)

- CLEAR CONNECT - TYPE A WIRELESS SIGNAL  
CLEAR CONNECT - TYPE A 2-WAY WIRELESS SIGNAL

- CAT5e OR BETTER CABLE FOR LUTRON NETWORK  
CAT5e OR BETTER CABLE FOR LUTRON NETWORK  
POWER OVER ETHERNET (POE) ETHERNET LINK  
CAT5e OR BETTER CABLE FOR LUTRON NETWORK  
TEMPORARY ETHERNET CONNECTION - CAT5e OR BETTER CABLE FOR LUTRON NETWORK

## WIRING NOTES:

## ATHENA QS LINK RULES

THE FOLLOWING LINK RULES MUST BE OBSERVED FOR PROPER OPERATION:

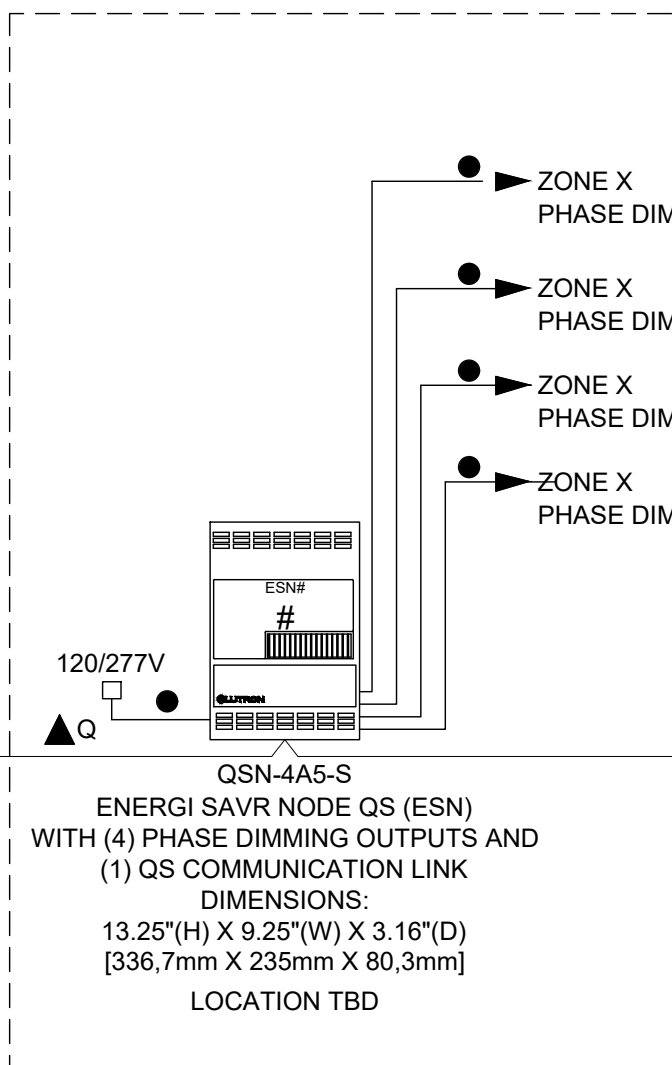
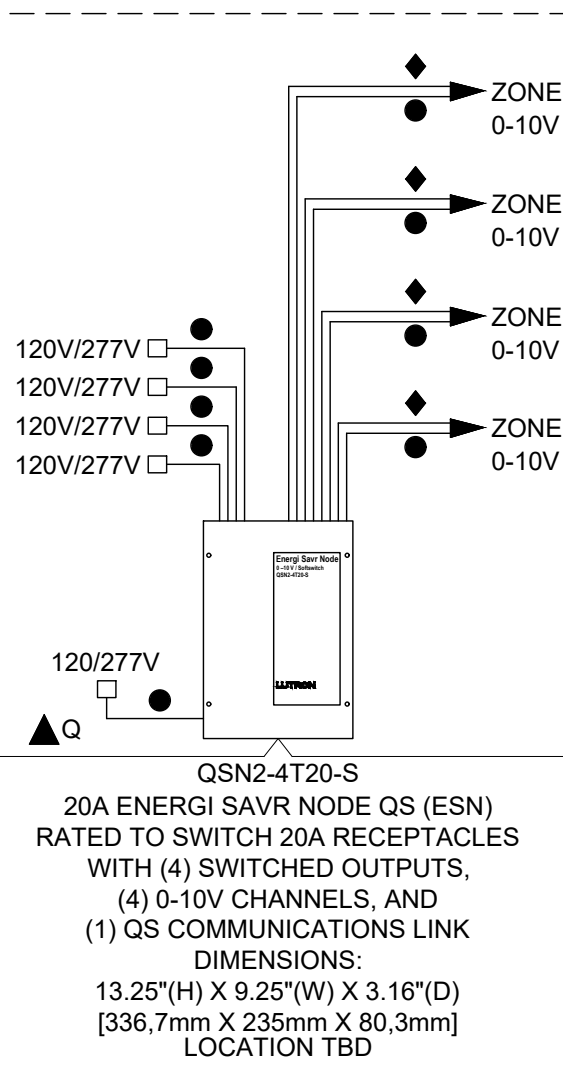
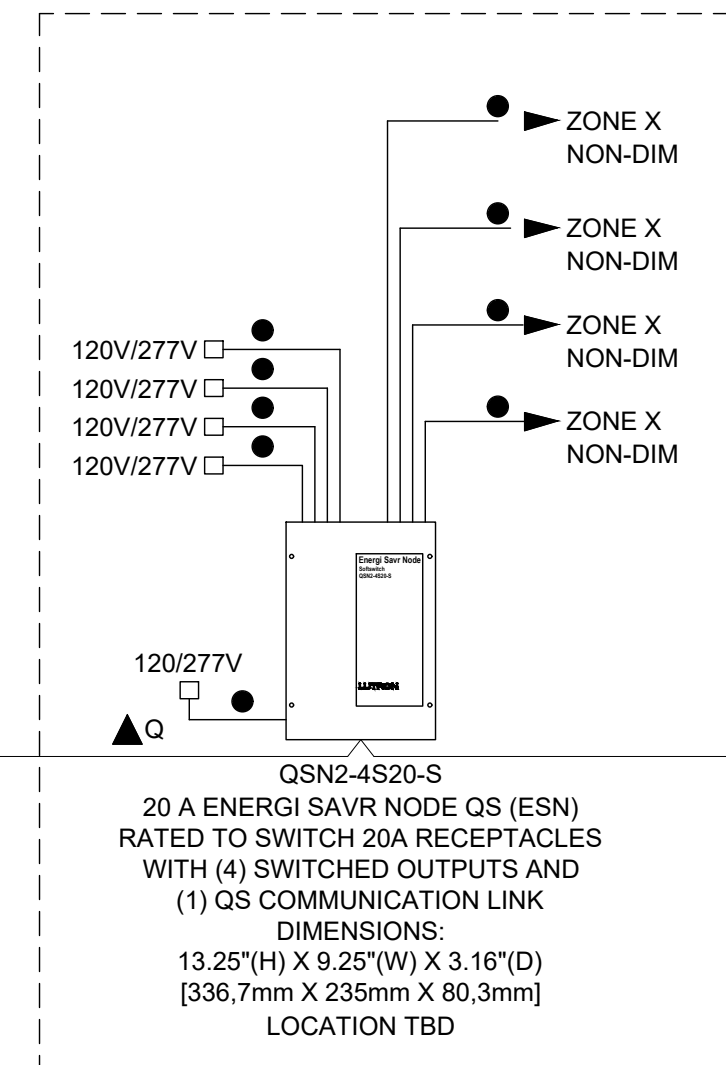
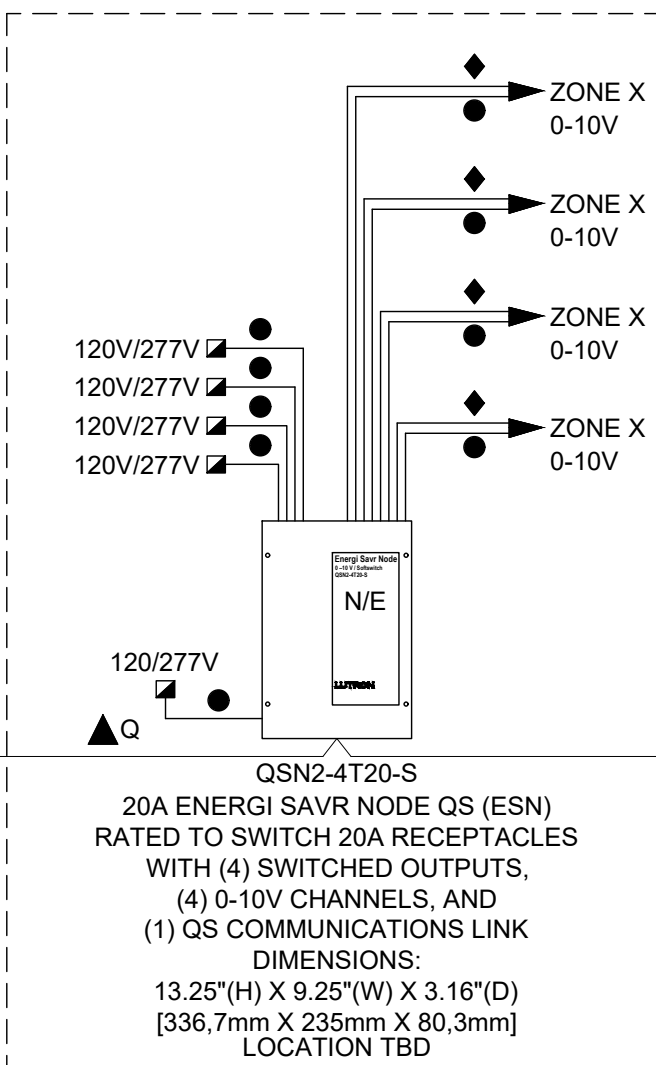
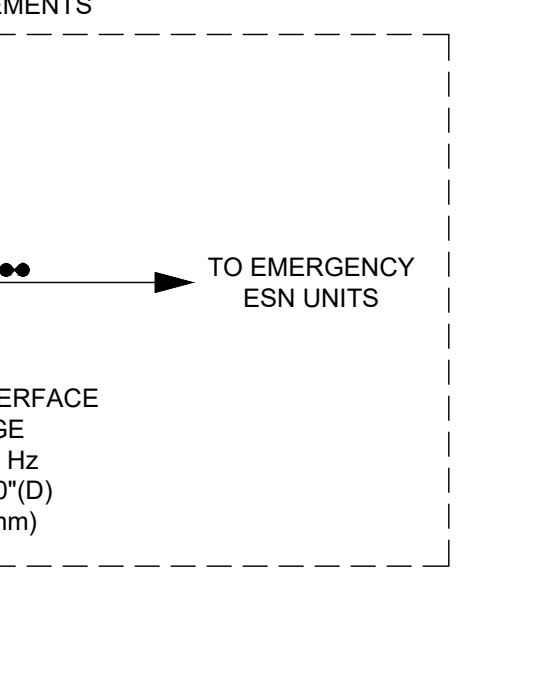
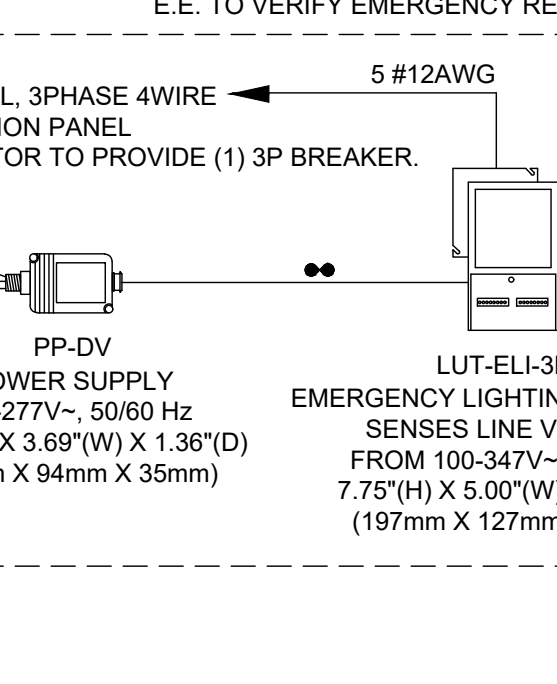
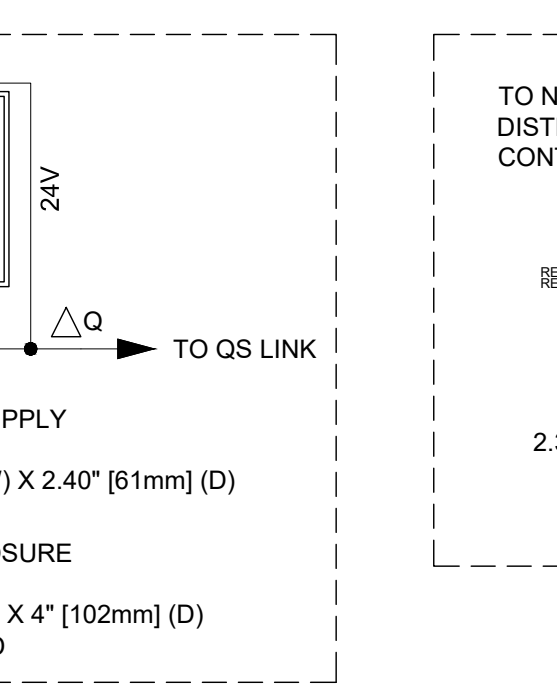
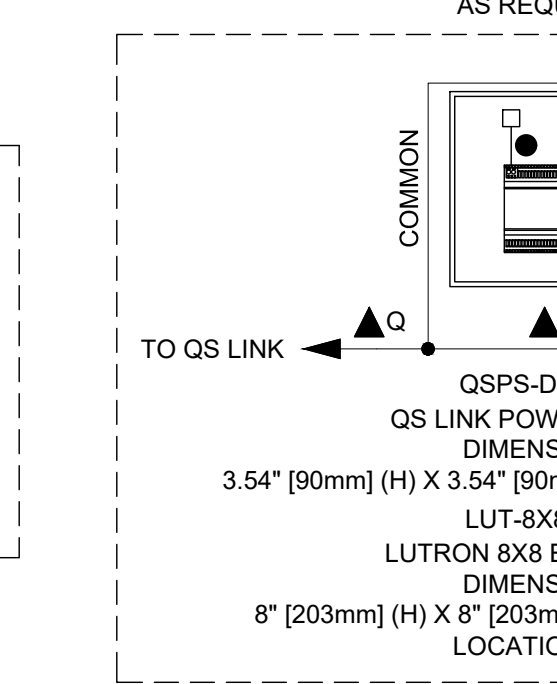
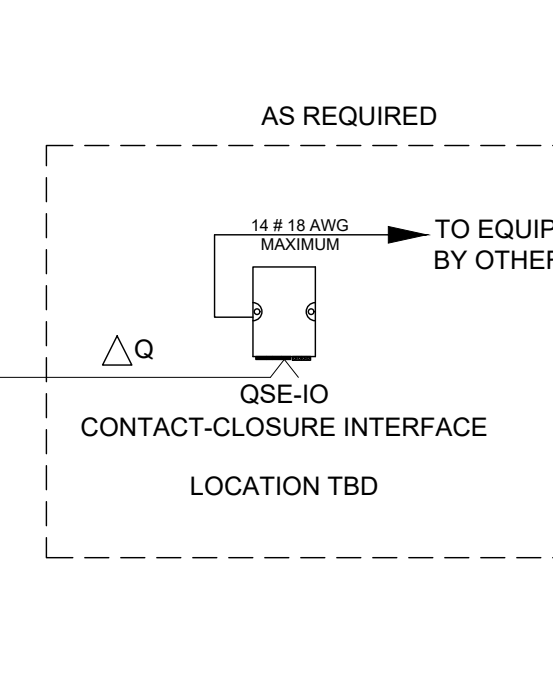
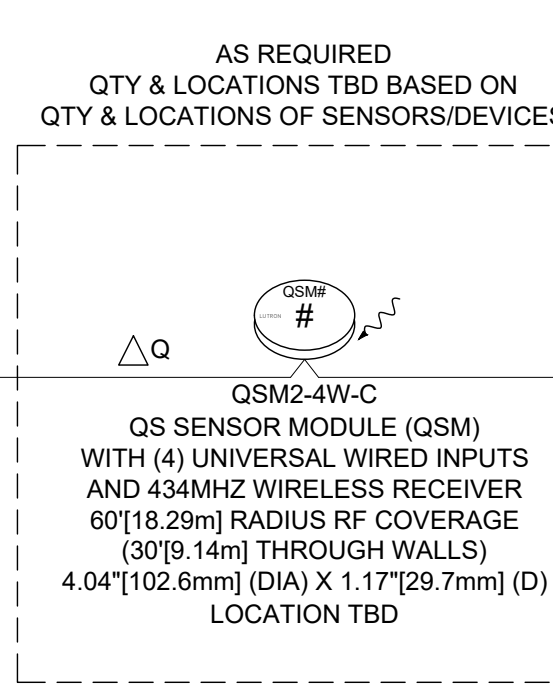
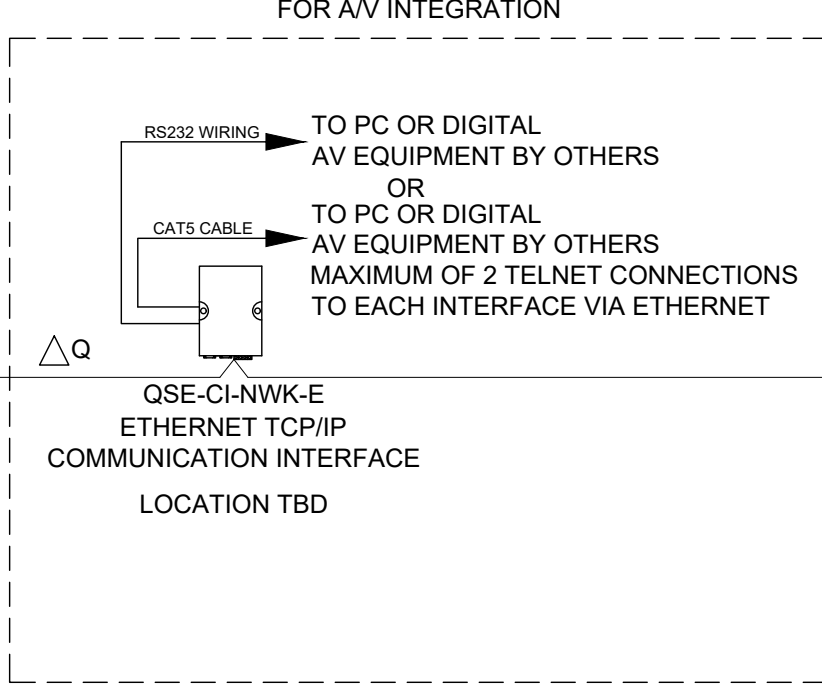
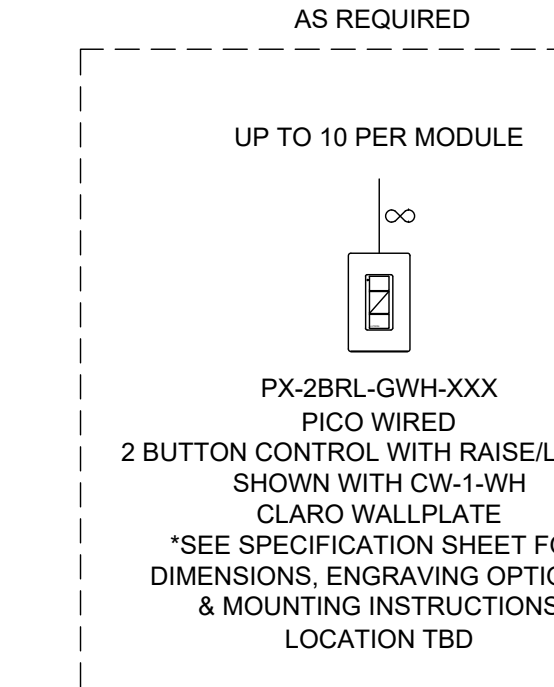
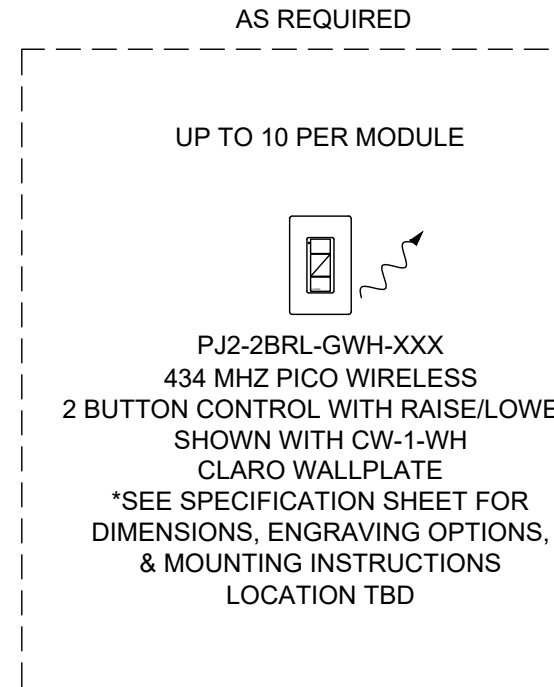
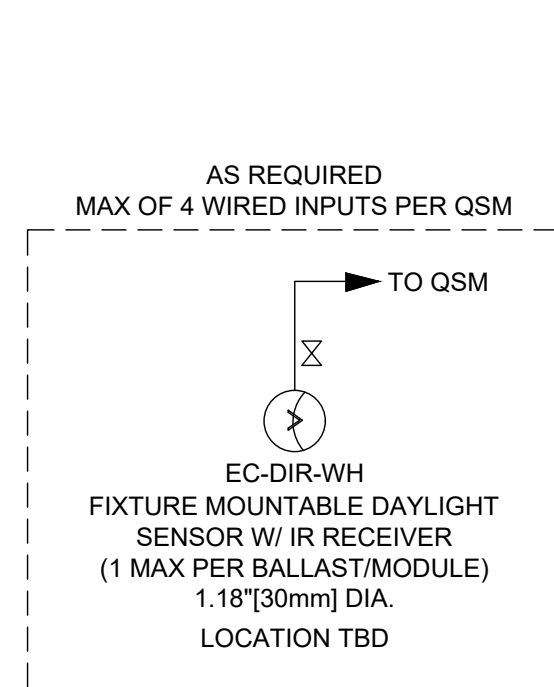
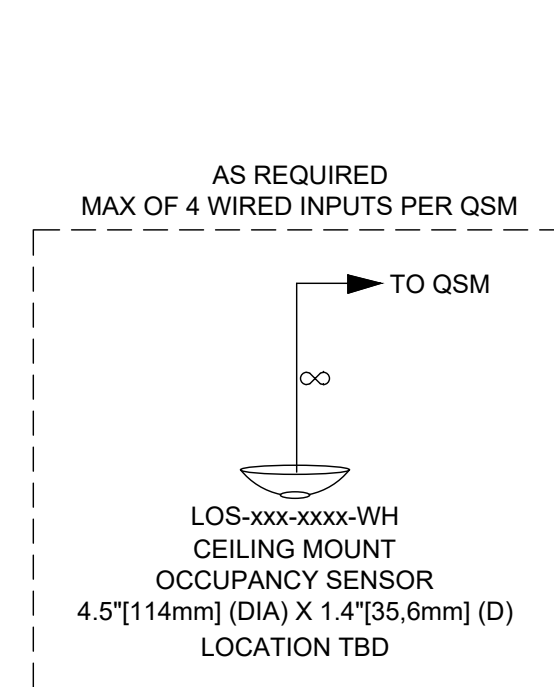
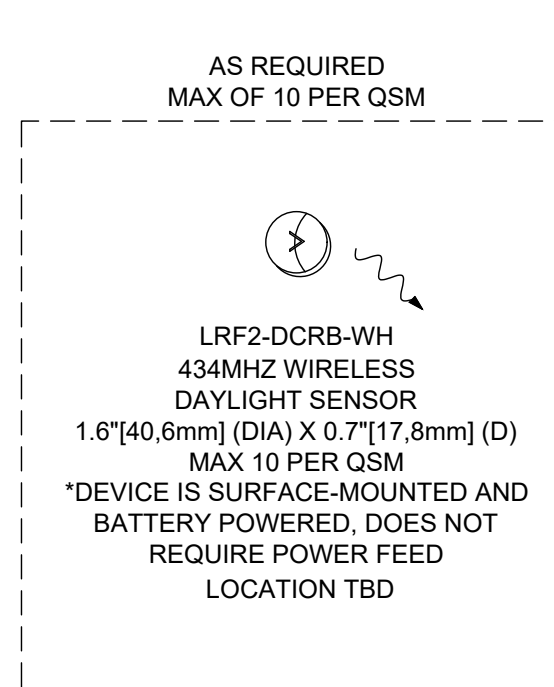
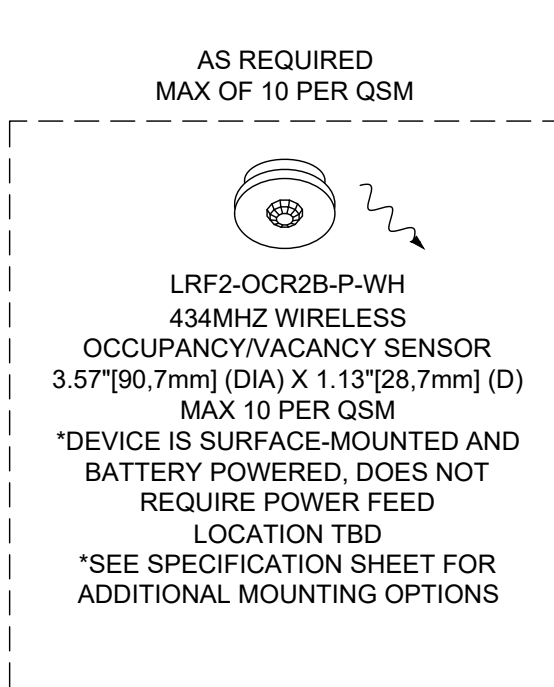
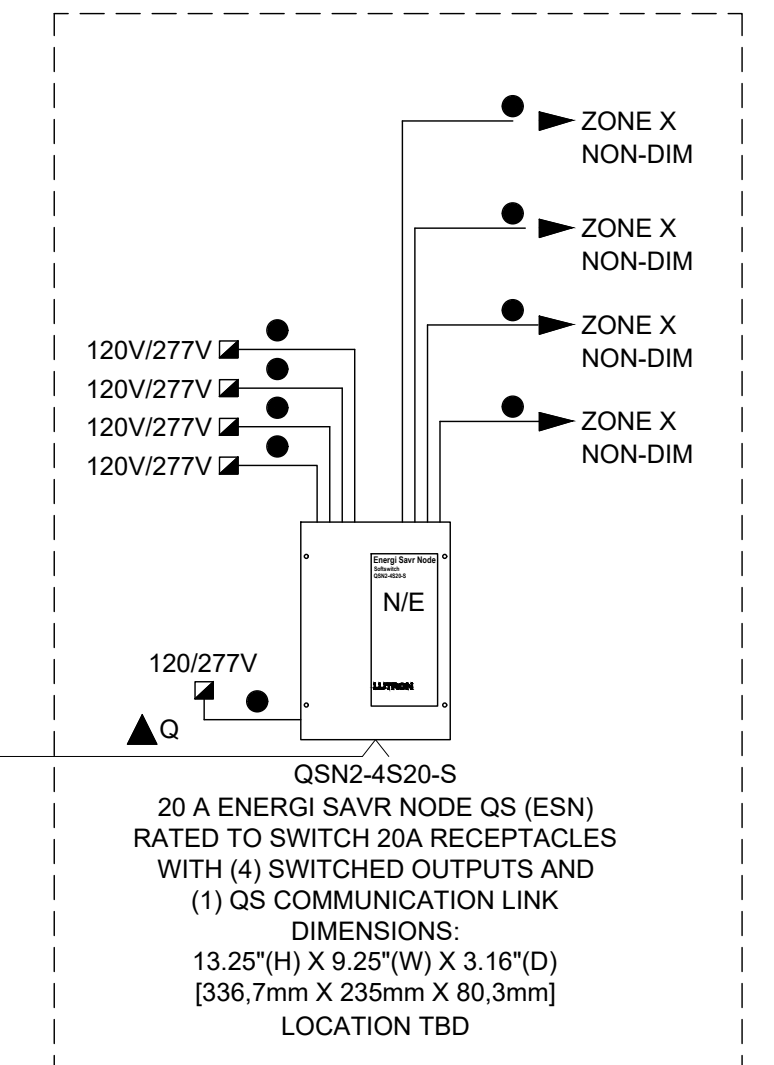
- THIS IS A TOPOLOGY-FREE LINK (T-TAP, HOME-RUN, ETC. IS OK); REFER TO TABLE IN WIRING LEGEND FOR WIRE RUN LIMITS.
- IF WIRED DIFFERENTLY THAN WHAT IS SHOWN, POWER DRAW UNIT REQUIREMENTS NEED TO BE CONFIRMED. SEE POWER DRAW UNITS (PDUs) SPECIFICATION SHEET.
- FOR LINE EDGE PROCESSORS (QPS-3, POE A QPS-4L, POE B PER LINK LIMITS ARE:
  - MAXIMUM OF 512 SWITCHLESS (DIMMED/SWITCHED) OUTPUTS, DIGITALLY ADDRESSABLE DEVICES, A SINGLE DMX CHANNEL, CONTACT CLOSURE OUTPUTS, SHADE DRIVES).
  - MAXIMUM OF 100 OCCUPANCY SENSORS, 100 DAYLIGHT SENSORS, AND 100 KEYPADS.
  - MAXIMUM OF 100 QS DEVICES (SUCH AS A SETTOUCH QS KEYPAD, SMART PANEL, POWER SUPPLY (QSPS-10PnL), ESN, OR QS SHADE / DRAPERY DRIVE UNIT).
  - PROCESSOR COUNTS AS 1 DEVICE PER LINK.
  - MAXIMUM OF 100 ZONES - SUCH AS A QS SHADE / DRAPERY DRIVE UNIT, EDGE.
  - THE 10 OUTPUTS ON A QSPS-10PnL CANNOT EXCEED A COMBINED LENGTH OF 2,000 ft (600 m).
- FOR LINE EDGE PROCESSORS (QPS-1L, POE A QPS-1L) PER LINK LIMITS ARE:
  - MAXIMUM OF 256 SWITCHLESS (DIMMED/SWITCHED) OUTPUTS, DIGITALLY ADDRESSABLE DEVICES, A SINGLE DMX CHANNEL, CONTACT CLOSURE OUTPUTS, SHADE DRIVES).
  - MAXIMUM OF 50 OCCUPANCY SENSORS, 50 DAYLIGHT SENSORS, AND 50 WALL CONTROLS.
  - MAXIMUM OF 25 QS DEVICES (SUCH AS A SETTOUCH QS KEYPAD, SMART PANEL, POWER SUPPLY (QSPS-10PnL), ESN, OR QS SHADE / DRAPERY DRIVE UNIT), EDGE PROCESSOR COUNTS AS 1 DEVICE PER LINK.
  - MAXIMUM OF 100 ZONES - SUCH AS A QS SHADE / DRAPERY DRIVE UNIT, EDGE PROCESSOR COUNTS AS 1 DEVICE PER LINK.
  - MAXIMUM OF 8 DMX INTERFACES (QSE-CLDMX).
  - THE 10 OUTPUTS ON A QSPS-10PnL CANNOT EXCEED A COMBINED LENGTH OF 2,000 ft (600 m).

## ATHENA SYSTEM ETHERNET LINK

CAT5e 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 INTERPROCESSOR COMMUNICATION AND COMMUNICATION LINES TO LUTRON ATHENA CLEAR CONNECT - TYPE X GATEWAYS. USE LUTRON'S QPOE-PnL 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 802.3ab-2009 REQUIREMENTS.

PROCESSORS CANNOT BE DASHY CHAINED. DO NOT DASHY 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.

MINIMUM OF (2) REQUIRED  
FOR CONTROL OF UP TO (4) NORMAL PHASE ZONES  
E.C. TO DETERMINE TOTAL QTYMINIMUM OF (8) REQUIRED  
FOR CONTROL OF UP TO (4) NORMAL  
0-10V OR NON-DIM ZONES  
E.C. TO DETERMINE TOTAL QTYMINIMUM OF (7) REQUIRED  
FOR CONTROL OF UP TO (4) NORMAL NON-DIM ZONES &  
GENERAL PURPOSE RECEPTACLES  
E.C. TO DETERMINE TOTAL QTYMINIMUM OF (1) REQUIRED  
FOR CONTROL OF UP TO (4) NORMAL-EMERGENCY  
0-10V OR NON-DIM ZONES  
E.C. TO DETERMINE TOTAL QTYMINIMUM OF (2) REQUIRED  
FOR CONTROL OF UP TO (4) NORMAL-EMERGENCY NON-DIM  
ZONES & GENERAL PURPOSE RECEPTACLES  
E.C. TO DETERMINE TOTAL QTY

Copyright reserved. This design and drawings are the exclusive property of the Consultant and cannot be used for any purpose without the written consent of the Consultant. This drawing is not to be used for construction until issued for that purpose by the Consultant.

Prior to commencement of the Work the contractor shall verify all drawing dimensions, datum, and levels with the Contract documents and with the conditions on site; ascertain and discrepancies between the site and the contract documents, and bring these items to the attention of the consultant for clarification.

superk

COPYRIGHT IN THIS ELECTRONIC DOCUMENT BELONGS TO SMITH AND ANDERSEN. THIS ELECTRONIC DOCUMENT MAY NOT BE FORWARDED TO OTHERS, TRANSMITTED, DOWNLOADED OR REPRODUCED IN ANY FORMAT, WHETHER PRINT OR ELECTRONIC, WITHOUT THE EXPRESS, WRITTEN PERMISSION OF THE COPYRIGHT OWNER. USE OF THIS ELECTRONIC DOCUMENT IS AT THE USER'S OWN RISK. THE USER SHALL INDEMNIFY AND SAVE HARMLESS THE ARCHITECT, HIS/HER EMPLOYEES, AGENTS AND CONSULTANTS FROM AND AGAINST ALL CLAIMS, LOSSES, DEMANDS, COSTS AND EXPENSES (INCLUDING LEGAL FEES), DAMAGES OR RECOVERIES (INCLUDING ANY AMOUNTS PAID IN SETTLEMENT) ARISING BY REASON OF, CAUSED, OR ALLEGED TO BE CAUSED, BY THE USER'S RELIANCE ON THIS ELECTRONIC DOCUMENT.

1	2024-01-25	ISSUED FOR CONSTRUCTION
2	2024-01-25	ISSUED FOR CONSTRUCTION
3	2024-01-25	ISSUED FOR ADO-01
4	2024-01-25	ISSUED FOR TENDR
5	2024-01-25	ISSUED FOR TENDR

No. Date Issue/Revision

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

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

Smith + Andersen

1100 - 100 Sheppard Ave. East, Toronto, Ont. M2H 0A5

No. Date Issue/Revision

Robarts 5th Floor MDL Renovation

ELECTRICAL DETAILS

Project: No.08086.000 (MEAYD) Scale: N.T.S.

Drawing No.

TE-0.6



10 NEW PANEL 006-ELP-05-04-FA  
TE-0.7 N.T.S.

7 EXISTING PANEL 006-NLP-05-04-AA  
TE-0.7 N.T.S.

4 NEW PANEL 006-NDP-05-04-AA  
TE-07 N.T.S.

1 NEW PANEL 006-NLP-05-02-CA  
TE-87 N.T.S.

11 NEW PANEL 006-ELP-05-04-FB  
TE-0.7 N.T.S.

8 EXISTING PANEL 006-NLP-05-04-BA  
TEQ.7 N.T.S.

5 NEW PANEL 006-NDP-05-04-BA  
TE-0.7 N.T.S.

2 NEW PANEL 006-ELP-05-02-FA  
TE-8.7 N.T.S.

12 NEW PANEL 006-ELP-05-04-FC  
TE-2.7 N.T.S.

9 EXISTING PANEL 006-NLP-05-04-CA  
TE0.7 N.T.S.

6 NEW PANEL 006-NDP-05-04-CA  
TE-07 N.T.S.

3 NEW PANEL 006-ELP-05-02-FC  
TE-4.2 N.T.S.

COPYRIGHT IN THIS ELECTRONIC DOCUMENT BELONGS TO SMITH AND ANDERSEN. THIS ELECTRONIC DOCUMENT MAY NOT BE FORWARDED TO OTHERS, TRANSMITTED, REPRODUCED, COPIED, OR REPRODUCED IN ANY FORMAT, WHETHER PRINT OR ELECTRONIC, WITHOUT THE EXPRESS, WRITTEN PERMISSION OF THE COPYRIGHT OWNER. USE OF THIS ELECTRONIC DOCUMENT IS AT THE USER'S RISK. THE USER SHALL INDEMNIFY AND SAVE HARMLESS THE ARCHITECT, HIS/HER EMPLOYEES, AGENTS AND CONSULTANTS FROM AND AGAINST ALL DAMAGES, LOSSES AND EXPENSES (INCLUDING LEGAL FEES), DAMAGES OR RECOVERIES (INCLUDING ANY AMOUNTS PAID IN SETTLEMENT) ARISING BY REASON OF ANY NEGLIGENCE OR OTHERWISE CAUSED, BY THE USER'S RELIANCE ON THIS ELECTRONIC DOCUMENT.

Project No. 08086.009.MEAVD	Scale AS NOTED
Drawing No.	

TE-0.7

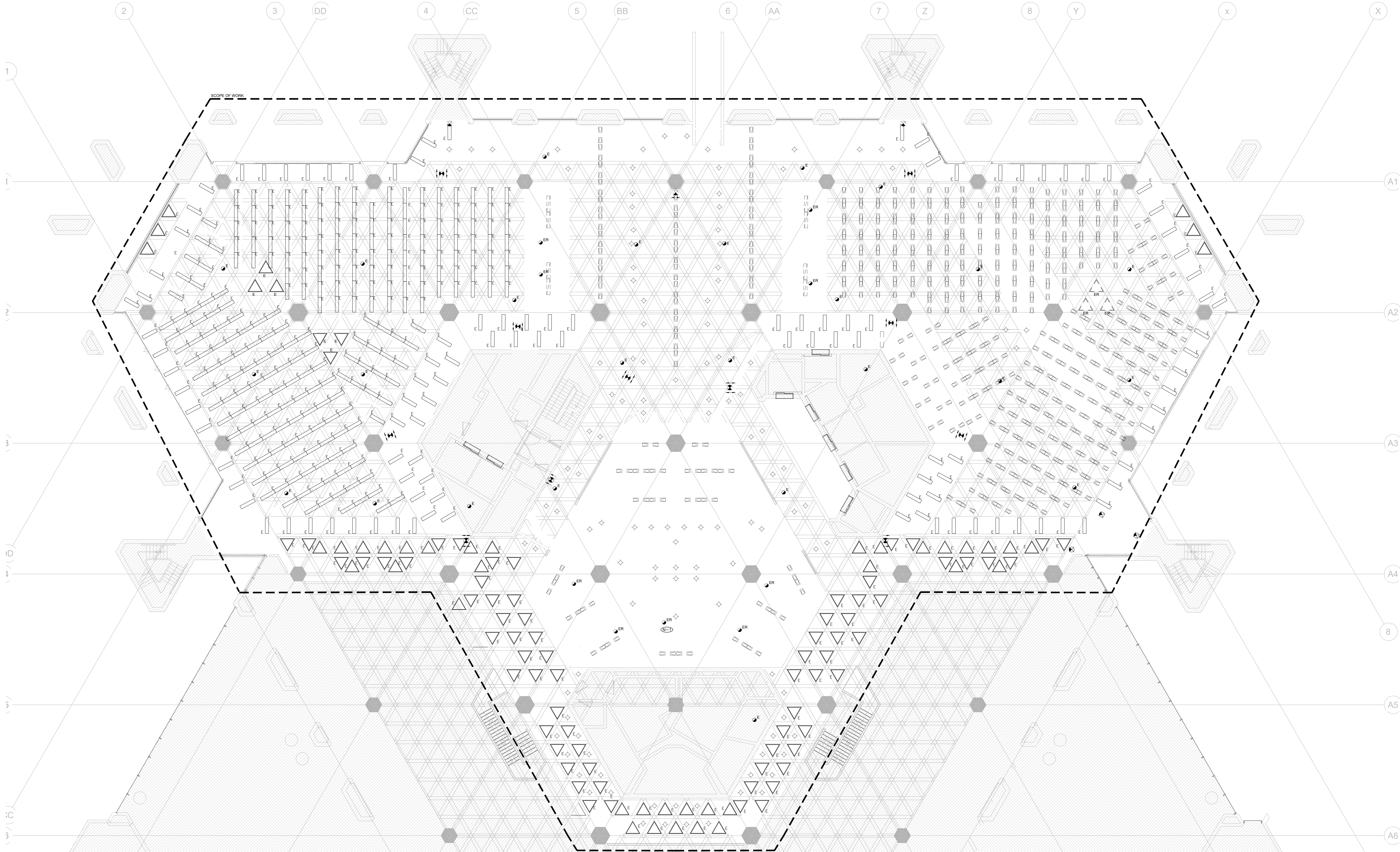












- GENERAL NOTES:
- REFER TO THE ARCHITECT'S DRAWINGS TO DETERMINE COMPLETE EXTENT OF DEMOLITION AND ALLOW FOR ALL COSTS. COMPLETE EXTENT OF DEMOLITION IS NOT SHOWN.
  - ENSURE THAT ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT AND LIGHTING WITHIN BASE BUILDING ROOMS, STAIRWELLS AND AREAS DEEMED NOT IN SCOPE, 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 BIDDING. 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 COILED 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 CHAIN HUNG AND SUPPORTED FROM THE CEILING SLAB/STRUCTURE ABOVE.
  - EXISTING EXIT SIGNS SHALL BE MAINTAINED THROUGHOUT DEMOLITION CONSTRUCTION. PROVIDE TEMPORARY SUPPORT FROM THE CEILING SLAB/STRUCTURE ABOVE. NEW EXIT SIGNS SHALL BE PROVIDED AS PART OF NEW CONSTRUCTION PHASE.

DRAWING NOTES:

TE-5 ALL DEVICES NOTED AS 'EY' TO BE RELOCATED FROM THEIR CURRENT LOCATION TO THEIR FINAL LOCATION AS SHOWN ON TE-5.1.

Copyright reserved. This design and drawings are the exclusive property of the Consultant and cannot be used for any purpose without the written consent of the Consultant. This drawing is not to be used for construction until issued for that purpose by the Consultant.

Prior to commencement of the Work the contractor shall verify all drawing dimensions, datums, and levels with the Contract documents and with the conditions on site; ascertain and discrepancies between the site and the contract documents, and bring these items to the attention of the consultant for clarification.

superk<sup>+</sup>i

COPYRIGHT IN THIS ELECTRONIC DOCUMENT BELONGS TO SMITH AND ANDERSEN. THIS ELECTRONIC DOCUMENT MAY NOT BE FORWARDED TO OTHERS, TRANSMITTED, DOWNLOADED OR REPRODUCED IN ANY FORMAT, WHETHER PRINT OR ELECTRONIC, WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE COPYRIGHT OWNER. USE OF THIS ELECTRONIC DOCUMENT IS AT THE USER'S OWN RISK. THE USER SHALL INDEMNIFY AND SAVE HARMLESS THE ARCHITECT, HIS/HER EMPLOYEES, AGENTS AND CONSULTANTS FROM AND AGAINST ALL CLAIMS, LOSSES, DEMANDS, COSTS AND EXPENSES (INCLUDING LEGAL FEES), DAMAGES OR RECOVERIES (INCLUDING ANY AMOUNTS PAID IN SETTLEMENT) ARISING BY REASON OF, CAUSED, OR ALLEGED TO BE CAUSED, BY THE USER'S RELIANCE ON THIS ELECTRONIC DOCUMENT.

No.	Date	Issue/Revision
9	2020-01-20	ISSUED FOR CONSTRUCTION
8	2020-01-16	ISSUED FOR CONSTRUCTION
7	2020-09-27	ISSUED FOR TENDER
6	2020-08-18	ISSUED FOR PERMIT/ISSUE
5	2020-08-18	ISSUED FOR WIN CO
4	2020-04-28	ISSUED FOR WIN CO COSTING
3	2020-12-12	ISSUED FOR OR REVIEW
2	2020-11-21	ISSUED FOR OR PHASING
1	2020-04-04	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 BROADVIEW AVE. EAST, TORONTO, ONT. M2H 6K5  
416 487 8101 416 487 8104 smithandandersen.com

No. Date Issue/Revision

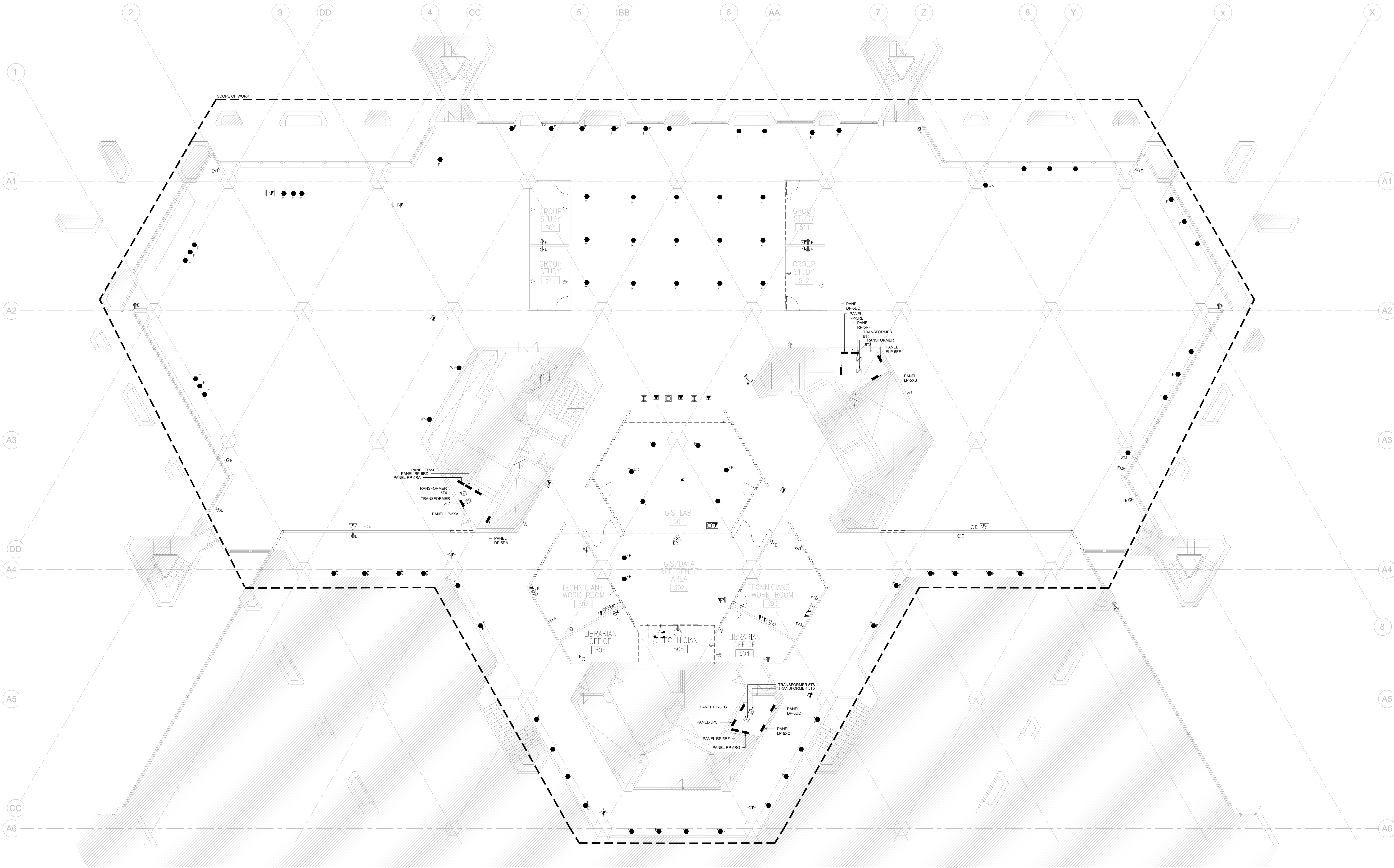
**Robarts 5th Floor MDL Renovation**

Title:  
**FIFTH FLOOR LIGHTING AND FIRE ALARM DEMOLITION 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, CHIMBELLS AND AREAS DEEMED 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.

Copyright reserved. This design and drawings are the exclusive property of the Consultant and cannot be used for any purpose without the written consent of the Consultant. This drawing is not to be used for construction until issued for that purpose by the Consultant.

Prior to commencement of the Work the contractor shall verify all drawing dimensions, datum, and levels with the Contract documents and with the conditions on site; ascertain and discrepancies between the site and the contract documents, and bring these items to the attention of the consultant for clarification.

# superk<sup>ii</sup>

COPYRIGHT IN THIS ELECTRONIC DOCUMENT BELONGS TO SMITH AND ANDERSEN. THIS ELECTRONIC DOCUMENT MAY NOT BE FORWARDED TO OTHERS, TRANSMITTED, DOWNLOADED OR REPRODUCED IN ANY FORMAT, WHETHER PRINT OR ELECTRONIC, WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE COPYRIGHT OWNER. USE OF THIS ELECTRONIC DOCUMENT IS AT THE USER'S OWN RISK. THE USER SHALL INDEMNIFY AND SAVE HARMLESS THE ARCHITECT, HIS/HER EMPLOYEES, AGENTS AND CONSULTANTS FROM AND AGAINST ALL CLAIMS, LOSSES, DEMANDS, COSTS AND EXPENSES (INCLUDING LEGAL FEES), DAMAGES OR RECOVERIES (INCLUDING ANY AMOUNTS PAID IN SETTLEMENT) ARISING BY REASON OF, CAUSED, OR ALLEGED TO BE CAUSED, BY THE USER'S RELIANCE ON THIS ELECTRONIC DOCUMENT.

No.	Date	Issue/Revision
9	2020-01-20	ISSUED FOR CONSTRUCTION
8	2020-01-16	ISSUED FOR CONSTRUCTION
7	2020-09-27	ISSUED FOR TENDER
6	2020-08-18	ISSUED FOR PERMIT/TENDER
5	2020-08-02	ISSUED FOR PERMITS
4	2020-04-28	ISSUED FOR WIN CO COSTING
3	2020-12-12	ISSUED FOR REVIEW
2	2020-11-21	ISSUED FOR BIDDING
1	2020-04-04	ISSUED FOR CO

PROJECT CONTACT

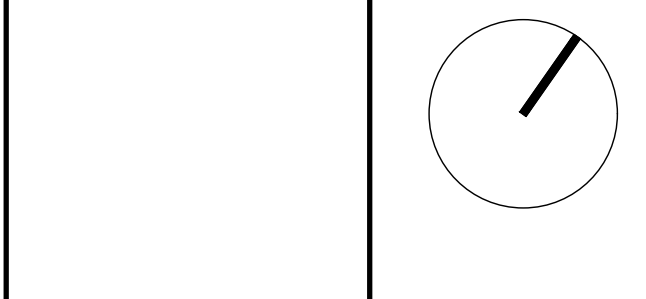
NAME:	Greg Zapp
TEL:	647 288 5479
EMAIL:	Greg.Zapp@smithandandersen.com

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

**Smith + Andersen**

1109 - 100 Bloor Street East, Toronto, Ont. M4W 1B5  
416 487 3101 • 416 487 3102 smithandandersen.com

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**

AUDIO-VISUAL SYSTEMS DRAWINGS  
ISSUED FOR AV TENDER- 2024-11-04

Prior to commencement of the Work the contractor shall verify all drawing dimensions, datums, and levels with the Contract documents and with the conditions on site; ascertain and discrepancies between the site and the contract documents, and bring these items to the attention of the consultant for clarification.

COPYRIGHT IN THIS ELECTRONIC DOCUMENT BELONGS TO SMITH AND ANDERSEN. THIS ELECTRONIC DOCUMENT MAY NOT BE REPRODUCED, COPIED, FORWARDED, TRANSMITTED, DOWNLOADED OR REDUCED IN ANY FORMAT, WHETHER PRINT OR ELECTRONIC, WITHOUT THE EXPRESS, WRITTEN PERMISSION OF THE COPYRIGHT OWNER. BY USING THIS DOCUMENT, THE USER IS AT THE USER'S OWN RISK. THE USER SHALL INDEMNIFY AND SAVE HARMLESS THE ARCHITECT, HIS/HER EMPLOYEES, AGENTS AND CONSULTANTS FROM ALL CLAIMS, LOSSES, DEMANDS, COSTS AND EXPENSES (INCLUDING LEGAL FEES), DAMAGES OR RECOVERIES (INCLUDING ANY AMOUNTS PAID IN SETTLEMENT) ARISING BY REASON OF THE USER'S RELIANCE ON THIS ELECTRONIC DOCUMENT.

THE SCOPE OF WORK OF THE TRADES AS IT RELATES TO AUDIO VISUAL SYSTEMS IS DESCRIBED IN THE TABLE ABOVE. THE TERM "PROVIDE" MEANS "SUPPLY, INSTALL, TERMINATE, TEST AND COMMISSION"

[illegible]

SYMBOL	DESCRIPTION
<b>RACK-##</b> 	AV EQUIPMENT RACK RACK "ID" DESIGNATION: "AV" = FREE STANDING EQUIPMENT RACK. "CS" = CRESCENDO RACK. "RC" = RACK ON CASTERS.
<b>WALL-##</b> 	WALL MOUNT FLAT PANEL DISPLAY.
<b>TAC-##</b> 	DISPLAY "TAG" DESIGNATION: "FSD" = FLAT PANEL DISPLAY. "ID" = INTERACTIVE DISPLAY. "DS" = DIGITAL SOURCE DISPLAY. "MW" = MEDIA WALL DISPLAY(S). SEE DRAWING FOR QUANTITIES. NOTE: "XX" DENOTES SCREEN SIZE (N INCHES)
<b>CEILING-##</b> <b>XX</b> 	CEILING MOUNT FLAT PANEL DISPLAY. DISPLAY "TAG" DESIGNATION: "FSD" = POLE MOUNT FLAT PANEL DISPLAY. "PDD" = POLE MOUNT DUAL FLAT PANEL DISPLAY. NOTE: "XX" DENOTES SCREEN SIZE (N INCHES)
<b>WALL-##</b> <b>XX</b> 	WALL MOUNT AV INTERFACE. "TAG" DESIGNATION: "RSD" = ROOM SCHEDULING DISPLAY. "MRM" = MEETING ROOM DISPLAY. "CTL" = TOUCH CONTROL PANEL. NOTE: "XX" DENOTES SCREEN SIZE (N INCHES)
<b>BTN-##</b> 	BUTTON CONTROL PANEL BY AUDIOVISUAL CONTRACTOR.
<b>FB-##</b> 	"TAG" DESIGNATION: "BP" = BUTTON PANEL. "VC" = VOLUME CONTROL. "SC" = SCREEN CONTROL. (FOR PROJECTION SCREENS).
<b>FB-##</b> 	FLOORBOX CONNECTION FOR TABLETOP CONNECTIVITY.
<b>CAM-##</b> 	WALL MOUNT AV CAMERA.
<b>CAM-##</b> 	CEILING MOUNT AV CAMERA.
<b>PROJ-##</b> 	PROJECTOR.
<b>LIFT-##</b> 	PROJECTOR ON LIFT.
<b>SCR-##</b> 	PROJECTION SCREEN. NOTE: "XX" DENOTES SCREEN SIZE (N INCHES)
<b>TAC-##</b> 	CEILING RECESSED SPEAKER.
<b>TAC-##</b> 	"TAG" DESIGNATION: "S" = AV SPEAKER. "PSS" = PAGING SPEAKER.
<b>TAC-##</b> 	SURFACE MOUNT SPEAKER. "TAG" DESIGNATION: "S" = AV SPEAKER. "PSS" = PAGING SPEAKER.
<b>TAC-##</b> 	WALL MOUNT ANTENNA.
<b>TAC-##</b> 	"TAG" DESIGNATION: "ANT" = MICROPHONE ANTENNA. "ALS" = ASSISTIVE LISTENING ANTENNA.
<b>TAC-##</b> 	CEILING MOUNT ANTENNA.
<b>TAC-##</b> 	"TAG" DESIGNATION: "ANT" = MICROPHONE ANTENNA. "ALS" = ASSISTIVE LISTENING ANTENNA.
<b>MIC-##</b> 	CEILING MOUNT MICROPHONE.
<b>OC-##</b> 	OCCUPANCY SENSORS.
<b>PT-##</b> 	PARTITION SENSORS.
<b>AV-##</b> 	AV MIXING AV INPUT PLATE. (♣ ♠ ♡ ♢) (♣ ♠ ♡ ♢) (♣ ♠ ♡ ♢) (♣ ♠ ♡ ♢)
<b>AV-##</b> 	AV BACKBOX. (♣ ♠ ♡ ♢) (♣ ♠ ♡ ♢) (♣ ♠ ♡ ♢) (♣ ♠ ♡ ♢)
<b>AV-##</b> 	AV CABLE PULL BOX BY ELECTRICAL CONTRACTOR.
<b>AV-##</b> 	SIZE DESIGNATION: "6X6" = 60X66 AV CABLE PULL BOX. "12X12" = 12X12X6 AV CABLE PULL BOX.
NOTE:	NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS FOR AV COORDINATION MATRIX OR AV CONSULTANT DRAWINGS. BACKBOX SIZE, MOUNTING HEIGHT AND ALL INFRASTRUCTURE REQUIREMENTS.

[illegible]

1.	2024.11.04	ISSUED FOR AV TENDER
No.	Date	Issue/Revision

PROJECT CONTACT	
NAME:	PAT GALARDO
TEL:	416 572 8503
EMAIL:	pat.galarDO@smithandandersen.com

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

**Smith + Andersen**  
1100 - 100 Sheppard Ave. East, Toronto, ON, M2N 6N5  
416 487 8151 f 416 487 9104 [info@smithandandersen.com](mailto:info@smithandandersen.com)

No. Date Issue/Revision

Robarts 5th Floor MDL  
Renovation
















Title:

AV DRAWING LIST,  
LEGENDS & NOTES

Project No.08086.009.MEAVD	Scale AS NOTED
Drawing No.	

# AV000



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			
55" WALL MOUNT DIGITAL SIGNAGE DISPLAY (PORTRAIT)		DS1	1500mm (59") AFF	—	1935mm (76") 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	(1)2 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	(1)2 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	(1)2 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	(1)2 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	(1)2 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	(1)2 GANG AV MIDRING	2130mm (84") AFF	—	—	—	—	—	—	—	—	
CEILING MOUNT PTZ CAMERA		CAM2	AT FINISHED CEILING	—	—	—	—	—	—	—	—	—	—	
AV WALLPLATE AV INPUT		AV1	AT RECEPTACLE HEIGHT	(1)2 GANG AV MIDRING	AT RECEPTACLE HEIGHT	120	1	120	NORMAL	5~15R	(1)DUPLEX	(2)NETWORK DROPS	409.44	
AV WALLPLATE VIDEO INPUT		AV2	917mm (36") AFF	(1)1 GANG AV MIDRING	917mm (36") AFF	120	1	120	NORMAL	5~15R	(1)DUPLEX	(2)NETWORK DROPS	409.44	
CEILING RECESSED SPEAKERS		S1	AT FINISHED CEILING	—	—	—	—	—	—	—	—	—	—	
WIRELESS MIC ANTENNA		ANT1	AT FINISHED CEILING	(1)1 GANG AV BACKBOX	AT FINISHED CEILING	—	—	—	—	—	—	—	—	
ASSISTIVE LISTENING SYSTEM ANTENNA		ANT2	AT FINISHED CEILING	(1)1 GANG AV BACKBOX	AT FINISHED CEILING	—	—	—	—	—	—	—	—	
CEILING MICROPHONE		MC	AT FINISHED CEILING	—	—	—	—	—	—	—	—	—	—	
CREDENZA RACK		RACK1	ON THE FLOOR	(1)2 GANG OPENING AT ELECTRICAL FLOORBOX	AT RECEPTACLE HEIGHT	120	10.00	1200	ISOLATED	5~20R	(2)DUPLEX	(4)NETWORK DROPS	3100	DEDICATED CIRCUITS REQUIRED. WITH ISOLATED GROUND. FIRE ALARM. LIGHTING INTERCONNECTION REQUIRED.

1 AV DEVICE MATRIX

Copyright reserved. This design and drawings are the exclusive property of the Consultant and cannot be used for any purpose without the written consent of the Consultant. This drawing is not to be used for construction until issued for that purpose by the Consultant.

Prior to commencement of the Work the contractor shall verify all drawing dimensions, datums, and levels with the Contract documents and with the conditions on site; ascertain and discrepancies between the site and the contract documents, and bring these items to the attention of the consultant for clarification.



COPYRIGHT IN THIS ELECTRONIC DOCUMENT BELONGS TO SMITH AND ANDERSEN. THIS ELECTRONIC DOCUMENT MAY NOT BE FORWARDED TO OTHERS, TRANSMITTED, DOWNLOADED OR REPRODUCED IN ANY FORMAT, WHETHER PRINT OR ELECTRONIC, WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE COPYRIGHT OWNER.

USE OF THIS ELECTRONIC DOCUMENT IS AT THE USER'S OWN RISK. THE USER SHALL INDEMNIFY AND SAVE HARMLESS THE ARCHITECT, HIS/HER EMPLOYEES, AGENTS AND CONSULTANTS FROM AND AGAINST ALL CLAIMS, LOSSES, DEMANDS, COSTS AND EXPENSES (INCLUDING LEGAL FEES), DAMAGES OR RECOVERIES (INCLUDING ANY AMOUNTS PAID IN SETTLEMENT) ARISING BY REASON OF, CAUSED, OR ALLEGED TO BE CAUSED, BY THE USER'S RELIANCE ON THIS ELECTRONIC DOCUMENT.

1. 2024.11.04 ISSUED FOR AV TENDER  
No. Date Issue/Revision


PROJECT CONTACT

NAME: DAT GALARDO

TEL: 416 572 8503

Email: pat.galardo@smithandandersen.com

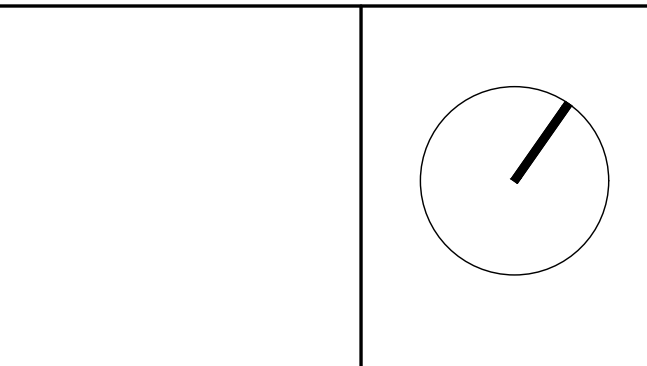
THIS DRAWING SHALL BE READ IN CONJUNCTION WITH AUDIOVISUAL SPECIFICATION SUBMITTED FOR THIS PROJECT.



Smith + Andersen

1100 — 100 Bloor Street East, Toronto, Ont. M4W 6K6  
416 497 8101 • 416 497 8104 smithandandersen.com

No. Date Issue/Revision



Robarts 5th Floor MDL  
Renovation

Title:  
AV COORDINATION  
MATRIX


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

AV001

COPYRIGHT IN THIS ELECTRONIC DOCUMENT BELONGS TO SMITH AND ANDERSEN. THIS ELECTRONIC DOCUMENT MAY NOT BE FORWARDED TO OTHERS, TRANSMITTED, DOWNLOADED OR REPRODUCED IN ANY FORMAT, WHETHER PRINT OR ELECTRONIC, WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE COPYRIGHT OWNER. USE OF THIS ELECTRONIC DOCUMENT IS AT THE USER'S OWN RISK. THE USER SHALL INDEMNIFY AND SAVE HARMLESS THE ARCHITECT, HIS/HER EMPLOYEES, AGENTS AND CONSULTANTS FROM AND AGAINST ALL CLAIMS, LOSSES, DEMANDS, COSTS AND EXPENSES (INCLUDING LEGAL FEES), DAMAGES OR RECOVERIES (INCLUDING ANY AMOUNTS PAID IN SETTLEMENT) ARISING BY REASON OF, CAUSED, OR ALLEGED TO BE CAUSED, BY THE USER'S RELIANCE ON THIS ELECTRONIC DOCUMENT.

1. 2024.11.04 ISSUED FOR AV TENDER  
No. Date Issue/Revision

PROJECT CONTACT	
NAME: DAT GALARD	
TEL: 416 572 8503	
Email: pat.galard@smithandandersen.com	
THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL SPECIFICATION SUBMITTED FOR THIS PROJECT.	

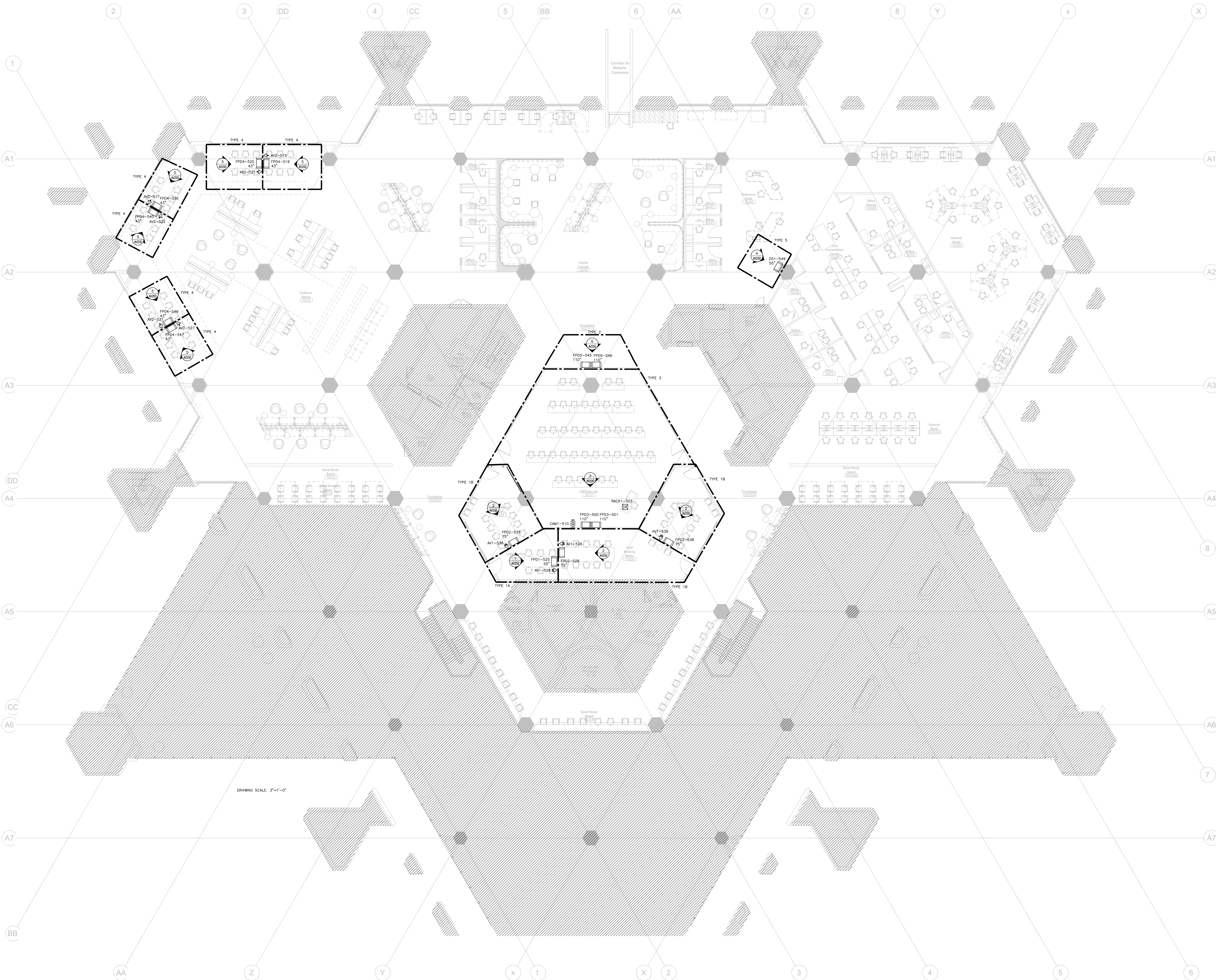
  
Smith + Andersen  
1109 - 100 Bloor Street East, Toronto, Ont. M4W 1B5  
416 497 8111 • 416 497 8116 smithandandersen.com  
No. Date Issue/Revision

Robarts 5th Floor MDL  
Renovation

Title:  
5th FLOOR AV DEVICE  
FLOOR PLAN

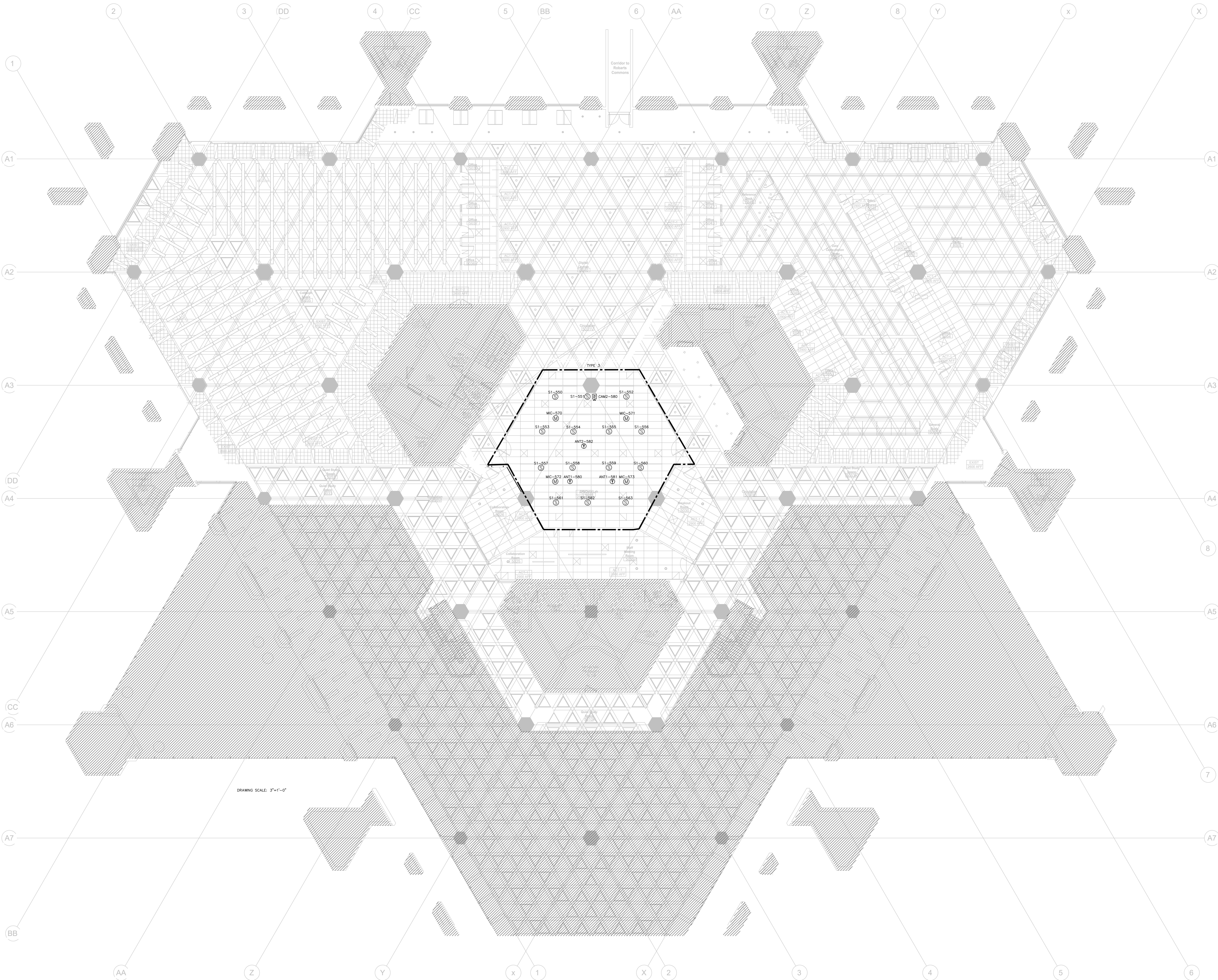
Project: No.08086.000 MEAVD | Scale: AS NOTED  
Drawing No.

AV105A



DRAWING SCALE: 3"=1'-0"





COPYRIGHT IN THIS ELECTRONIC DOCUMENT BELONGS TO SMITH AND ANDERSEN. THIS ELECTRONIC DOCUMENT MAY NOT BE FORWARDED TO OTHERS, TRANSMITTED, DOWNLOADED OR REPRODUCED IN ANY FORMAT, WHETHER PRINT OR ELECTRONIC, WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE COPYRIGHT OWNER. USE OF THIS ELECTRONIC DOCUMENT IS AT THE USER'S OWN RISK. THE USER SHALL INDEMNIFY AND SAVE HARMLESS THE ARCHITECT, HIS/HER EMPLOYEES, AGENTS AND CONSULTANTS FROM AND AGAINST ALL CLAIMS, LOSSES, DEMANDS, COSTS AND EXPENSES (INCLUDING LEGAL FEES), DAMAGES OR RECOVERIES (INCLUDING ANY AMOUNTS PAID IN SETTLEMENT) ARISING BY REASON OF, CAUSED, OR ALLEGED TO BE CAUSED, BY THE USER'S RELIANCE ON THIS ELECTRONIC DOCUMENT.

1. 2024.11.04 ISSUED FOR AV TENDER  
No. Date Issue/Revision

PROJECT CONTACT	
NAME: DAT GALARD	
TEL: 416 572 8503	
EMAIL: pat.galard@smithandandersen.com	

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

**Smith + Andersen**  
1100 - 100 Bloor Street East, Toronto, Ont. M5S 1A5  
416 497 8111 • 416 497 8114 smithandandersen.com  
No. Date Issue/Revision

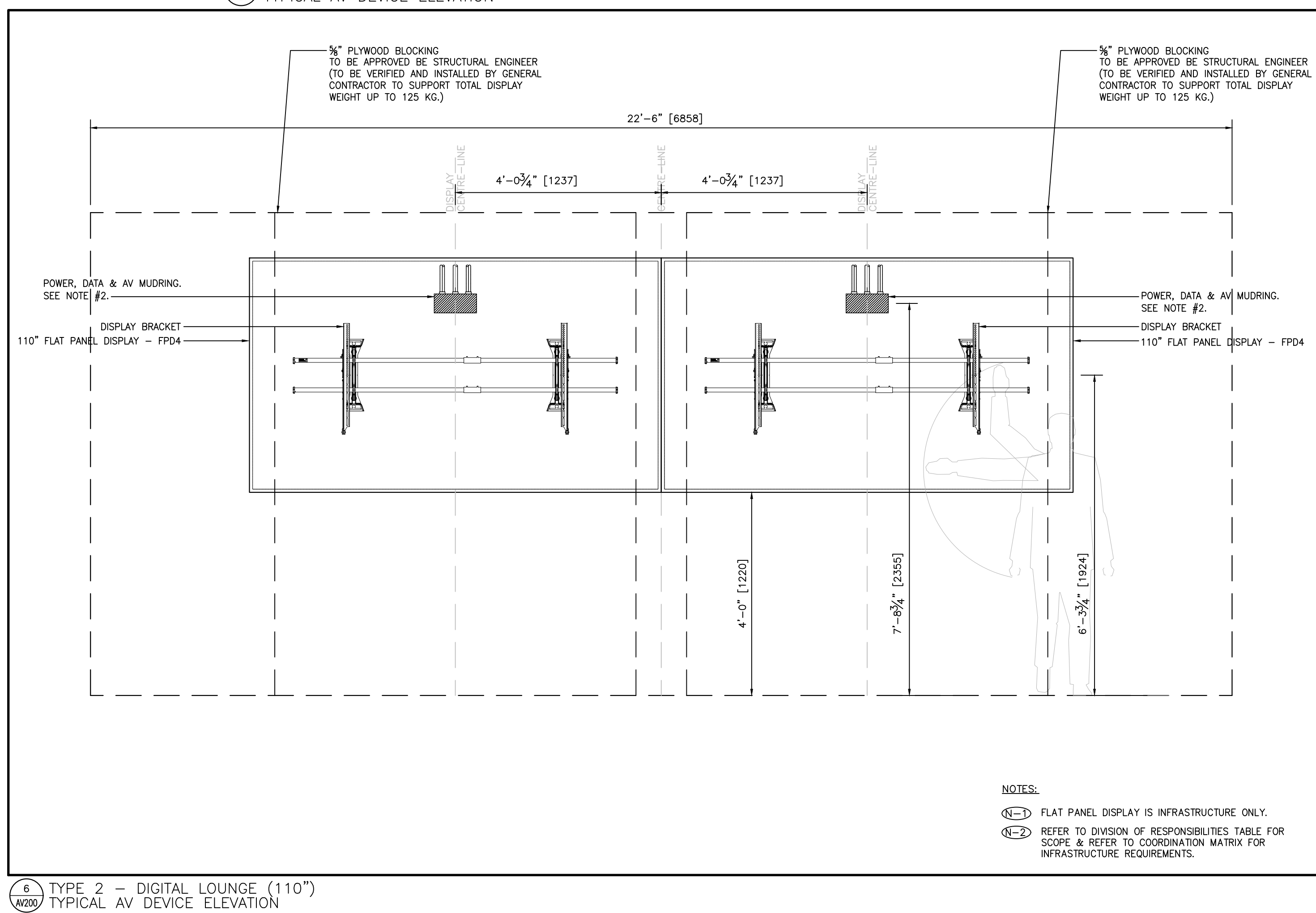
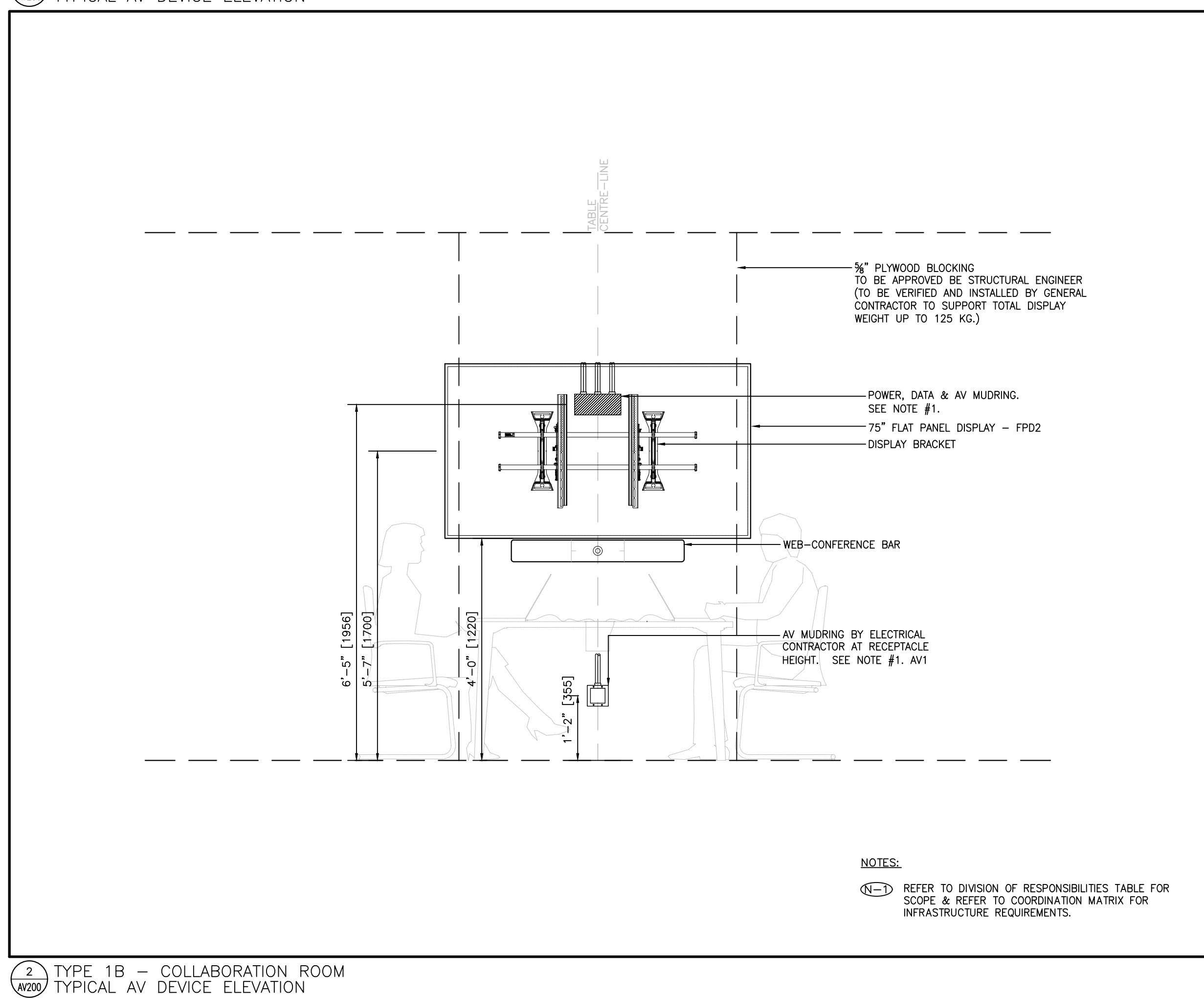
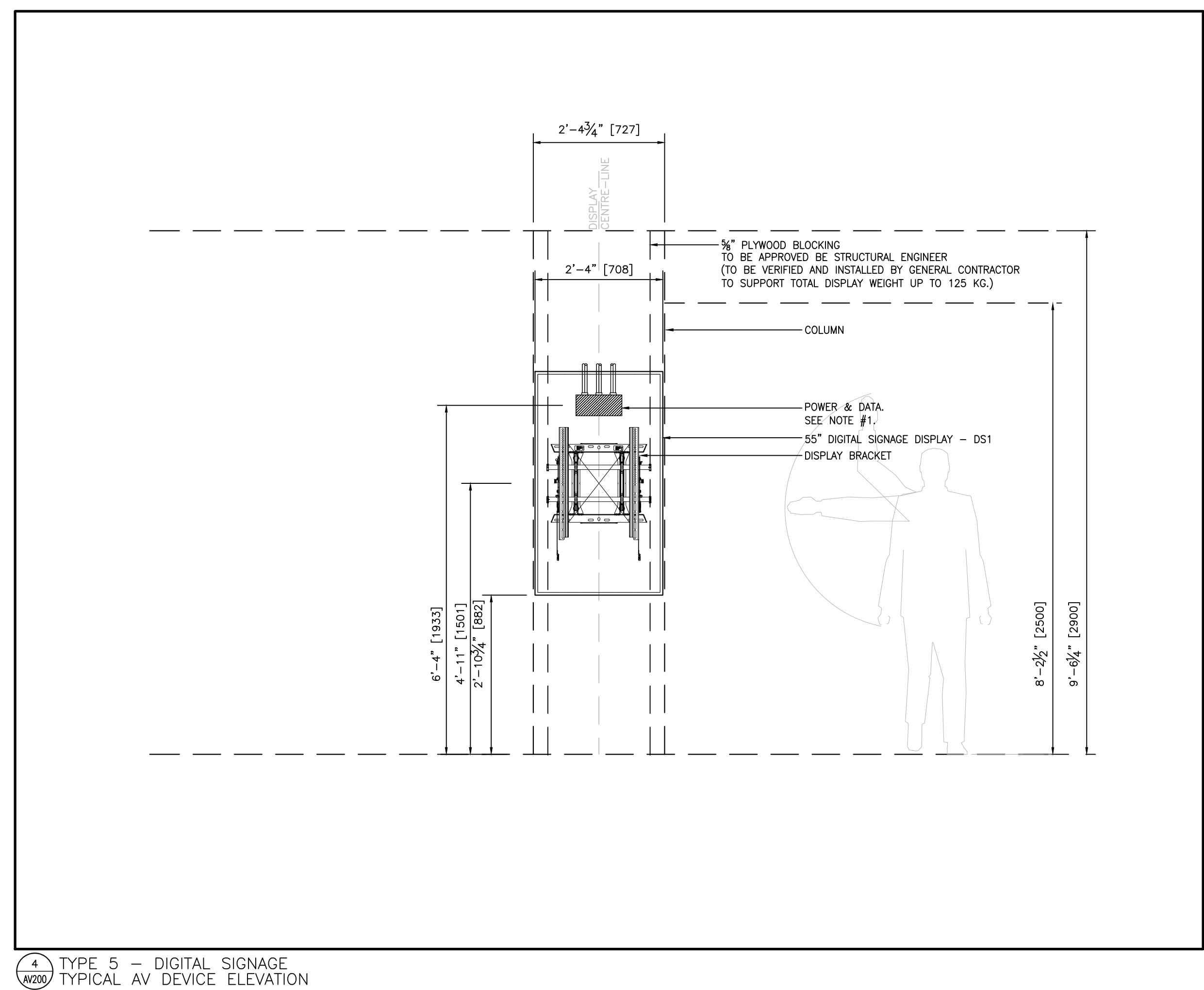
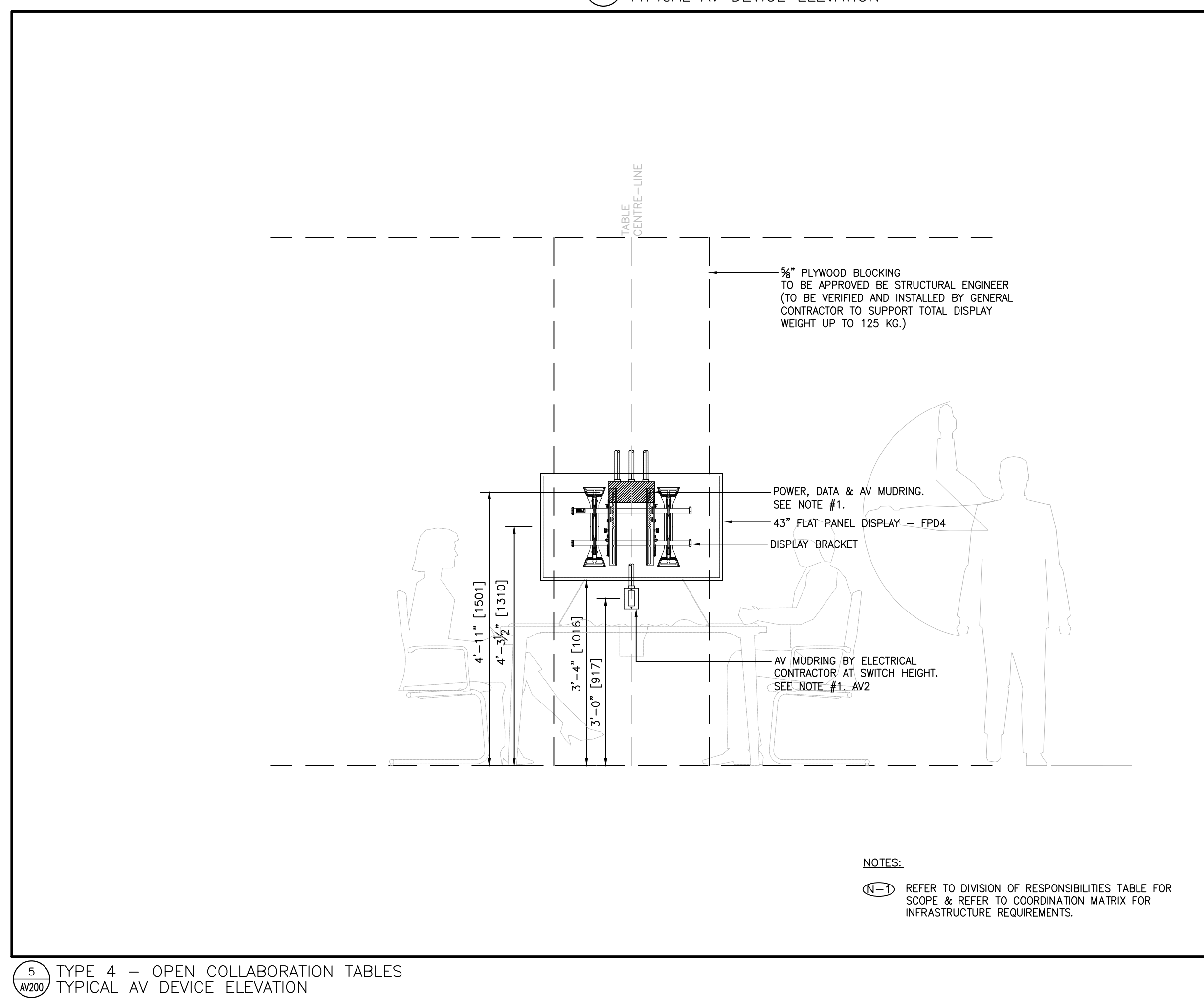
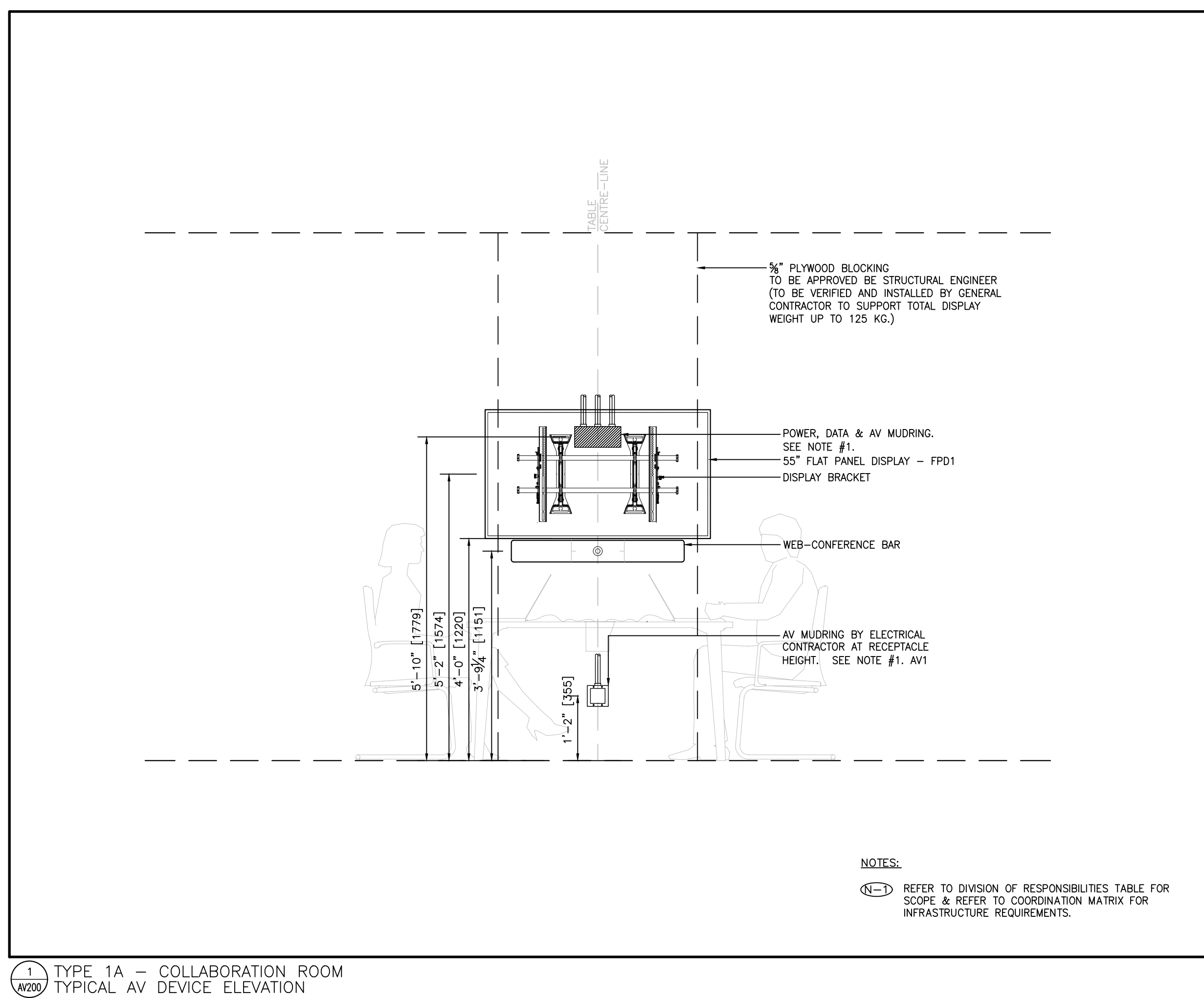
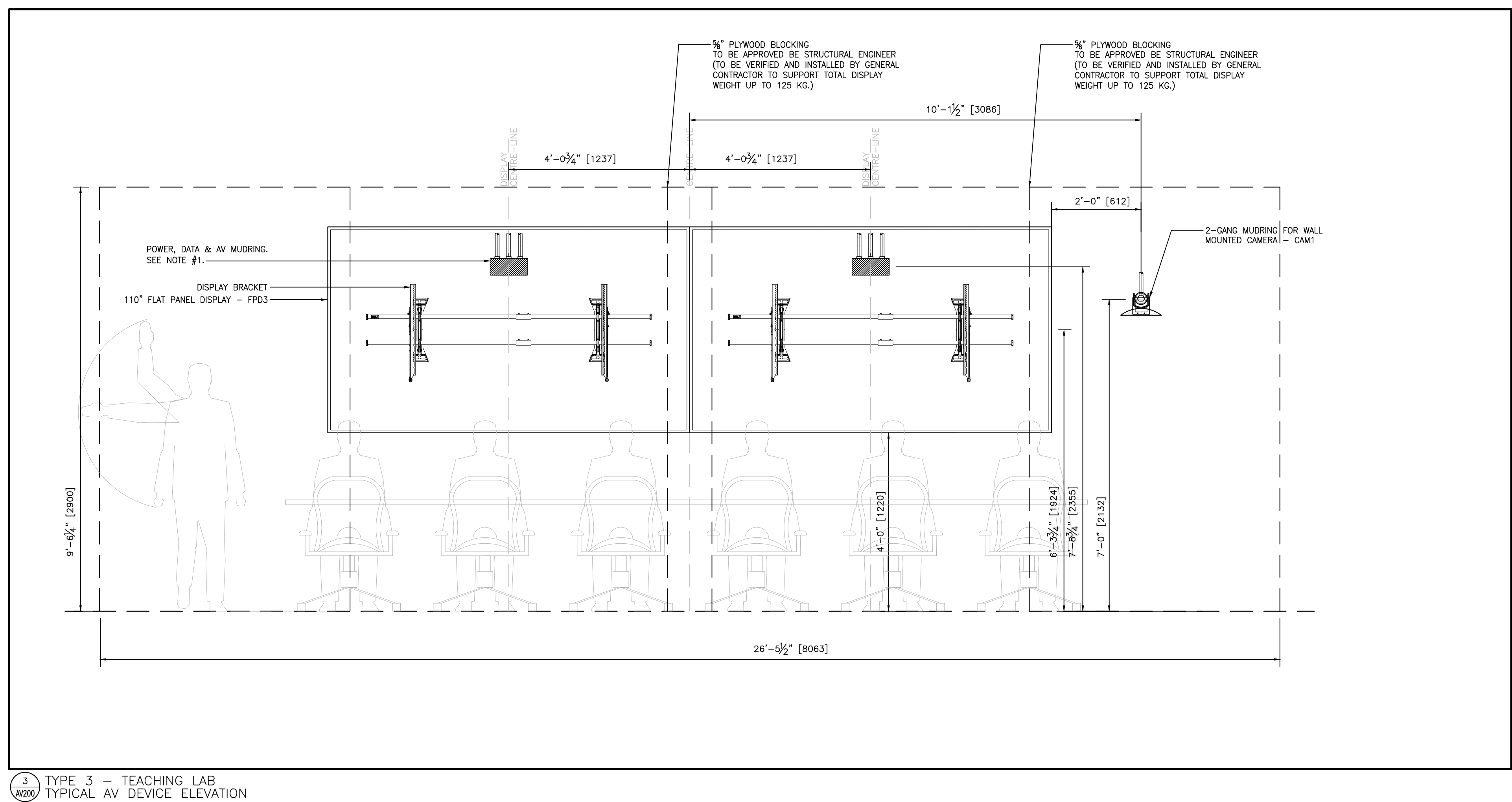
**Roberts 5th Floor MDL Renovation**

Title:  
**5th FLOOR AV DEVICE RCP**

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

## AV105B





Copyright reserved. This design and drawings are the exclusive property of the Consultant and cannot be used for any purpose without the written consent of the Consultant. This drawing is not to be used for construction until issued for that purpose by the

Prior to commencement of the Work the contractor shall verify all drawing dimensions, datums, and levels with the Contract documents and with the conditions on site; ascertain and discrepancies between the site and the contract documents, and bring these items to the attention of the consultant for clarification.

**superk™**

COPYRIGHT IN THIS ELECTRONIC DOCUMENT BELONGS TO SMITH AND ANDERSEN. THIS ELECTRONIC DOCUMENT MAY NOT BE FORWARDED TO OTHERS, TRANSMITTED, DOWN-LOADED, REPRODUCED IN ANY FORMAT, WHETHER PRINT OR ELECTRONIC, WITHOUT THE EXPRESS, WRITTEN PERMISSION OF THE COPYRIGHT OWNER. USE OF THIS ELECTRONIC DOCUMENT IS AT THE USER'S OWN RISK. THE USER SHALL INDEMNIFY AND SAVE HARMLESS THE ARCHITECT, HIS/HER EMPLOYEES, AGENTS AND CONSULTANTS FROM AND AGAINST ALL SUCH LOSSES, DAMAGES AND EXPENSES (INCLUDING LEGAL FEES), DAMAGES OR RECOVERIES (INCLUDING ANY AMOUNTS PAID IN SETTLEMENT) ARISING BY REASON OF ANY SUCH LOSS OR DAMAGE CAUSED, BY THE USER'S RELIANCE ON THIS ELECTRONIC DOCUMENT.

NOTES:

(N-1) REFER TO DIVISION OF RESPONSIBILITIES TABLE FOR SCOPE & REFER TO COORDINATION MATRIX FOR INFRASTRUCTURE REQUIREMENTS.

— POWER

— 75" FLAT PANEL DISPLAY - FPD2  
— DISPLAY BRACKET

**NOTES:**

(N-1) REFER TO DIVISION OF RESPONSIBILITIES TABLE FOR SCOPE & REFER TO COORDINATION MATRIX FOR INFRASTRUCTURE REQUIREMENTS.

**NOTES:**

(N-2) REFER TO DIVISION OF RESPONSIBILITIES TABLE FOR SCOPE & REFER TO COORDINATION MATRIX FOR INFRASTRUCTURE REQUIREMENTS.

1.	2024.11.04	ISSUED FOR AV TENDER
No.	Date	Issue/Revision

PROJECT CONTACT	
NAME:	PAT GALARDO
TEL:	416 572 8503
EMAIL:	pat.galarDO@smithandandersen.com

**Smith + Andersen**  
1102 - 100 Sheppard Ave. East, Toronto, ON, M2N  
416 487 8151 f 416 487 9104 [ar@smithandersen.com](mailto:ar@smithandersen.com)

Robarts 5th Floor MDL  
Renovation

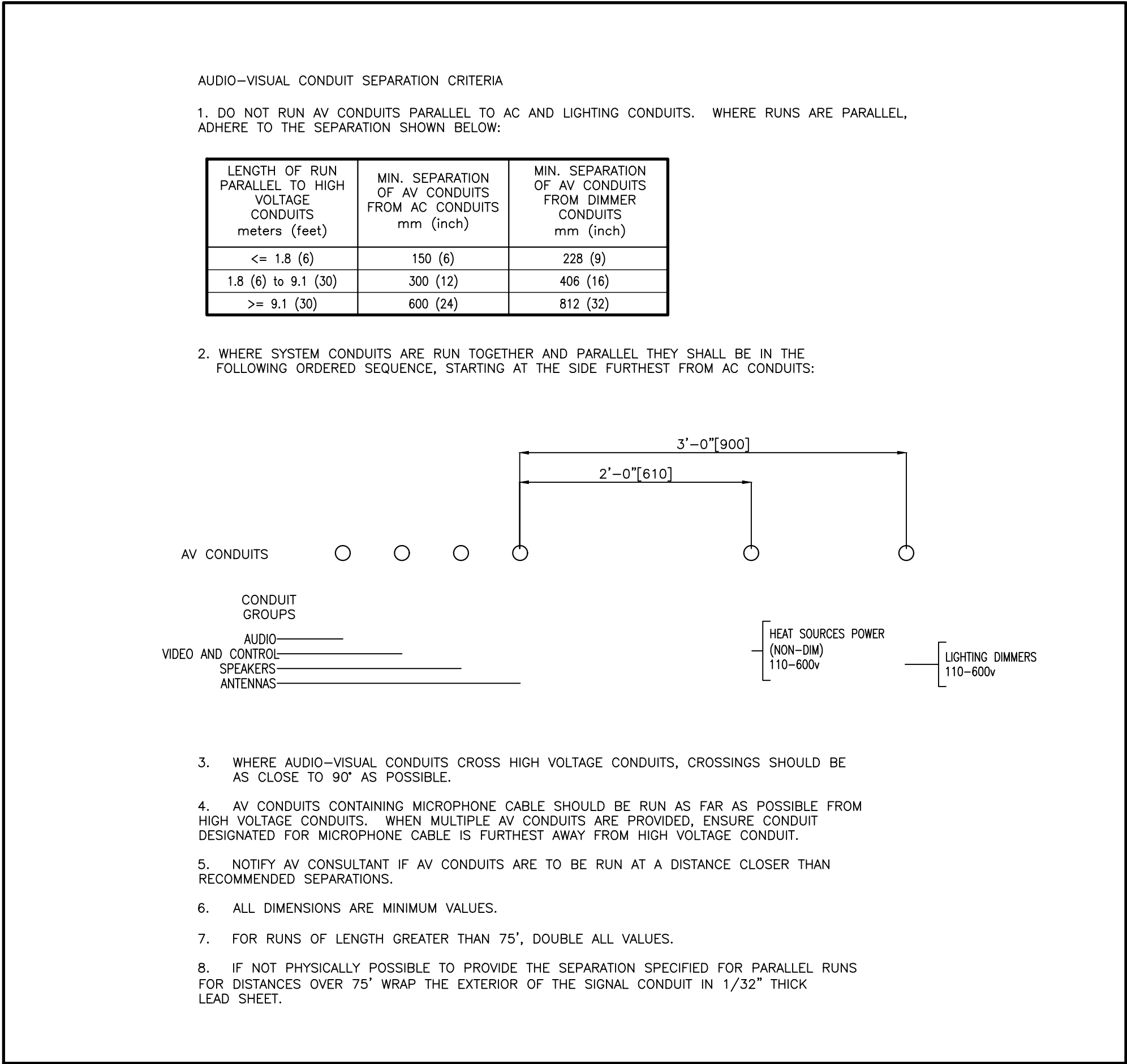
Title:

AV ELEVATIONS

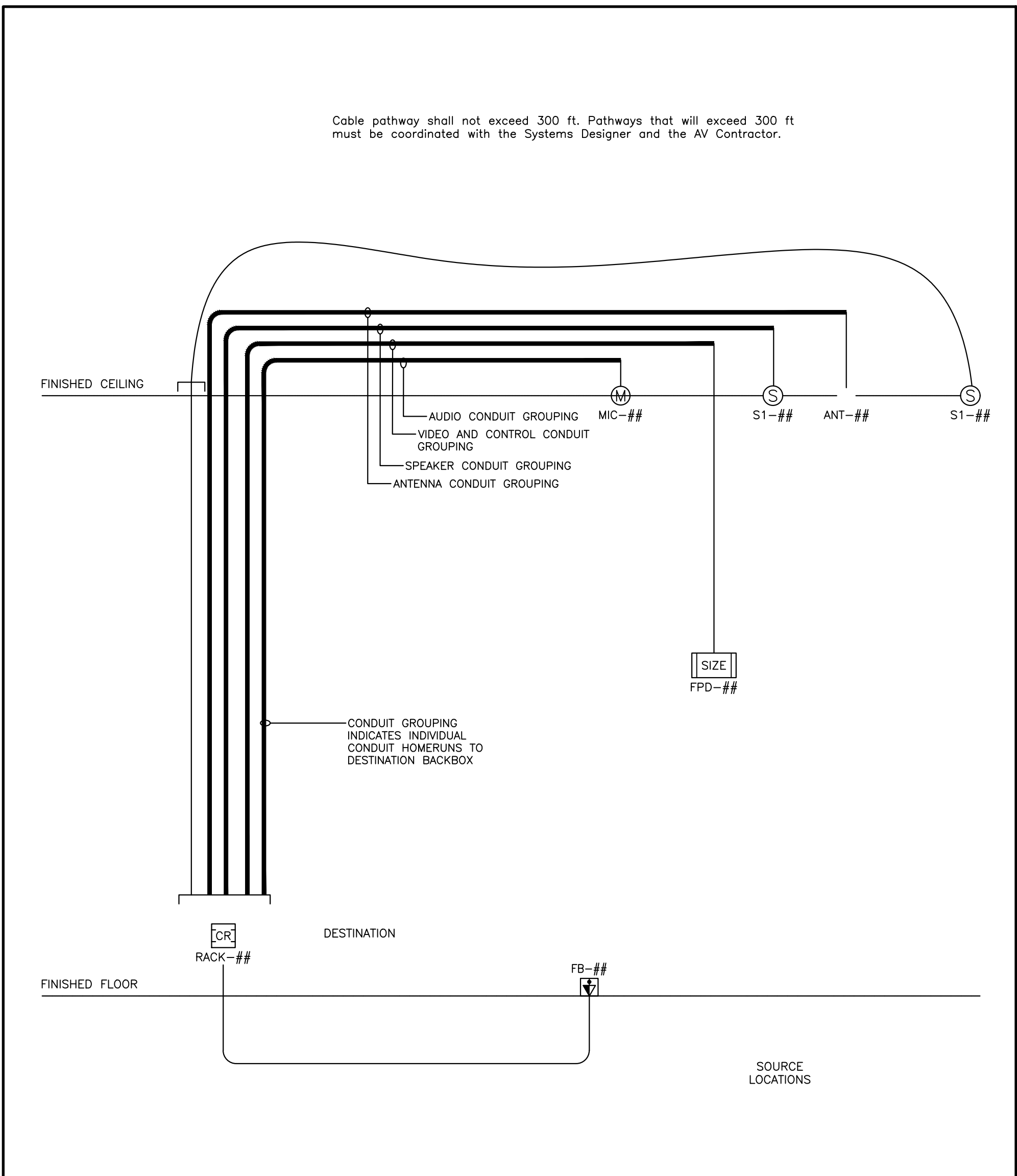
Project No.08086.009.MEAVD	Scale AS N
Drawing No.	

# AV200

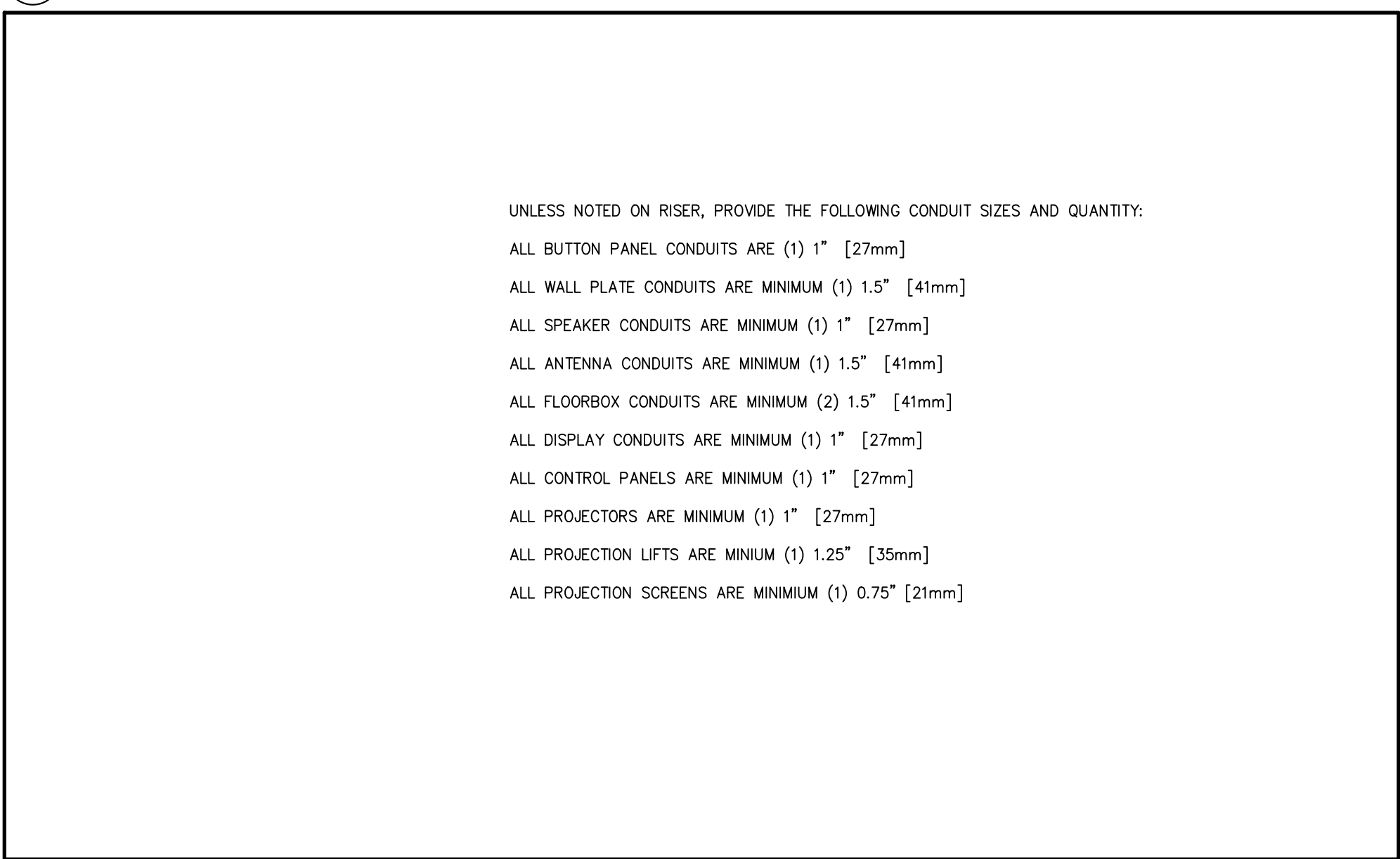




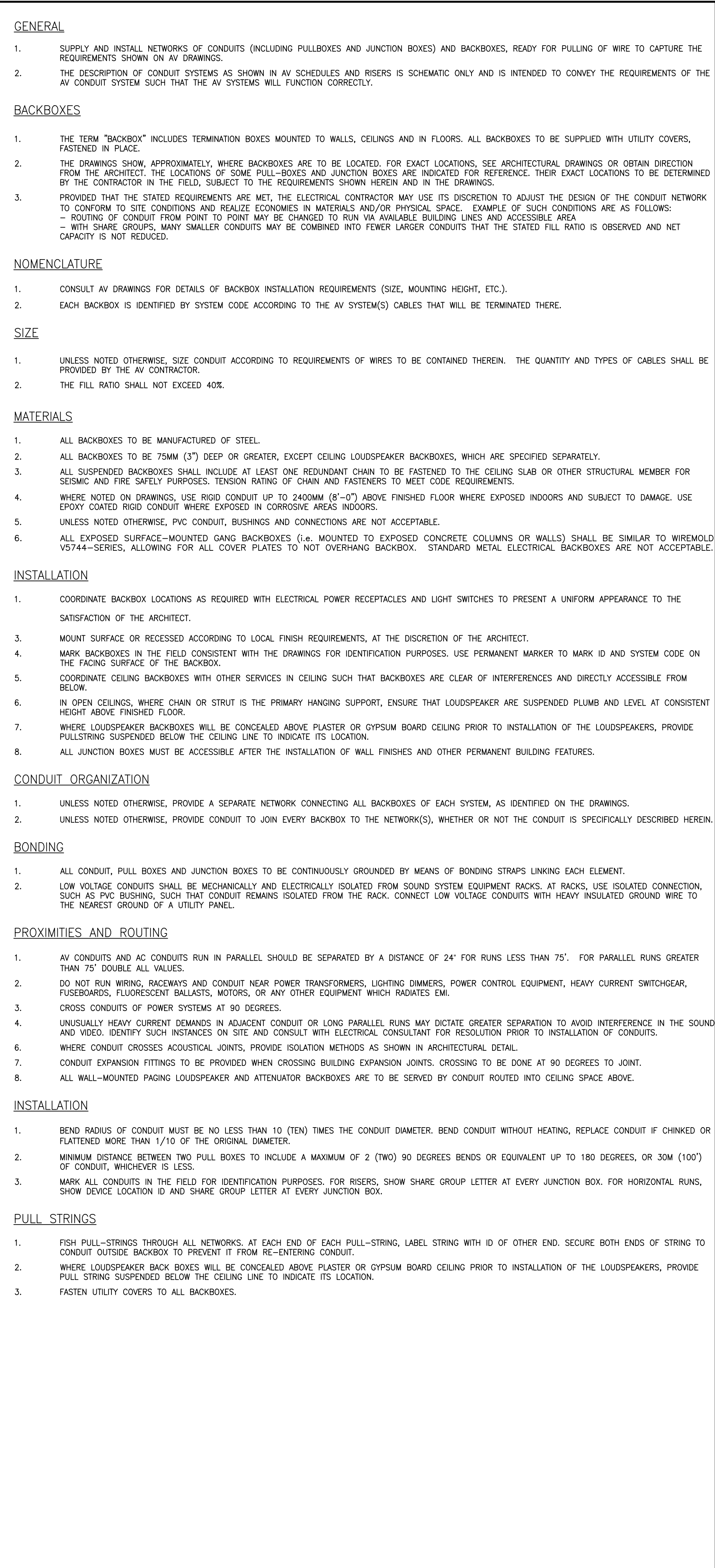
3. AUDIO-VISUAL CONDUIT SEPARATION CRITERIA  
SCALE: NTS



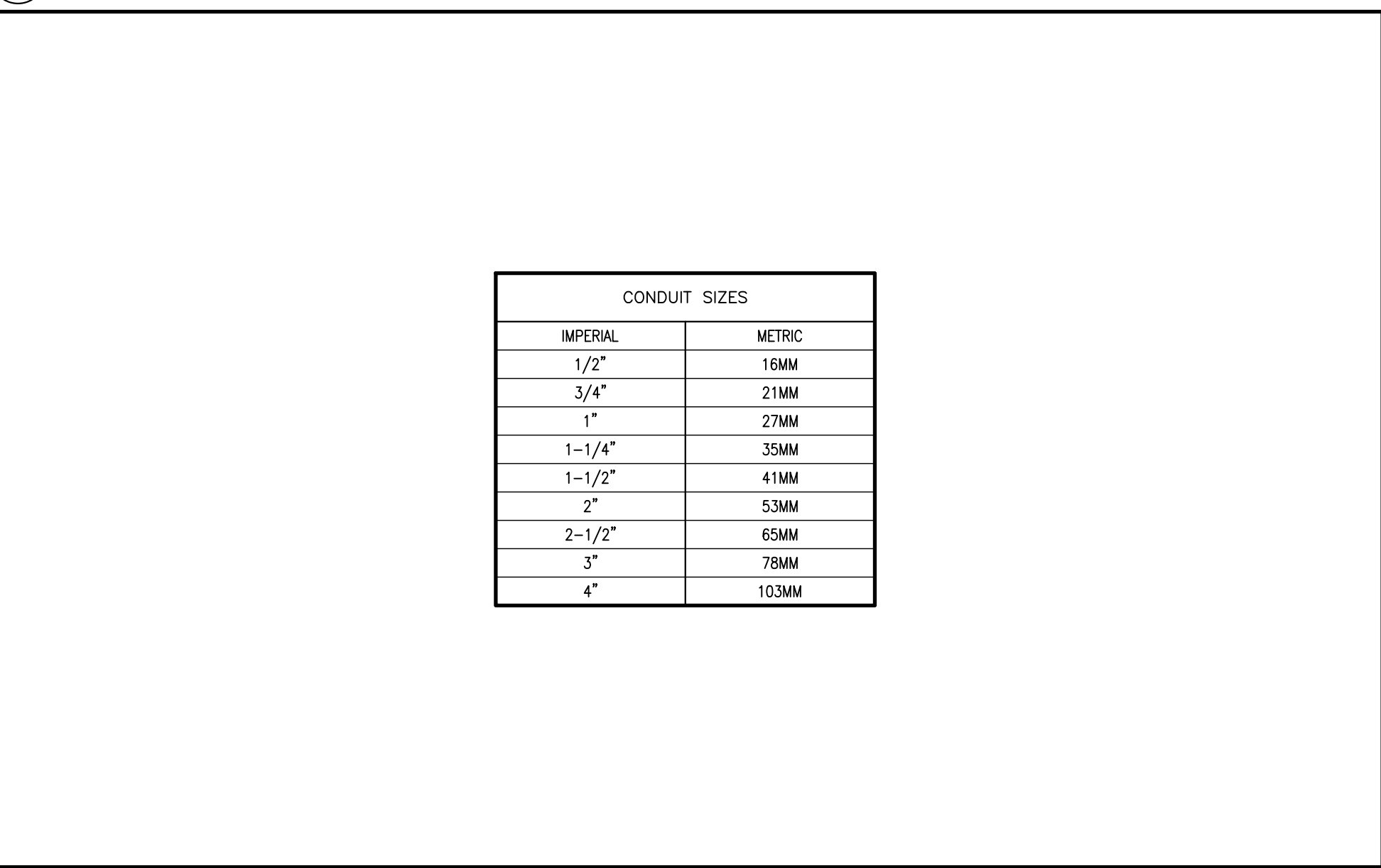
4. RISER DIAGRAM DEFINITION  
SCALE: NTS



5. CONDUIT SIZES  
SCALE: NTS



1. AV CONDUIT AND BACKBOX NETWORK  
SCALE: NTS



2. CONDUIT SIZES  
SCALE: NTS

Copyright reserved. This design and drawings are the exclusive property of the Consultant and cannot be used for any purpose without the written consent of the Consultant. This drawing is not to be used for construction until issued for that purpose by the Consultant.

Prior to commencement of the Work the contractor shall verify all drawing dimensions, datums, and levels with the Contract documents and with the conditions on site; ascertain and discrepancies between the site and the contract documents, and bring these items to the attention of the consultant for clarification.



COPYRIGHT IN THIS ELECTRONIC DOCUMENT BELONGS TO SMITH AND ANDERSEN. THIS ELECTRONIC DOCUMENT MAY NOT BE FORWARDED TO OTHERS, TRANSMITTED, DOWNLOADED OR REPRODUCED IN ANY FORMAT, WHETHER PRINT OR ELECTRONIC, WITHOUT THE EXPRESS, WRITTEN PERMISSION OF THE COPYRIGHT OWNER. USE OF THIS ELECTRONIC DOCUMENT IS AT THE USER'S OWN RISK. THE USER SHALL INDEMNIFY AND SAVE HARMLESS THE ARCHITECT, HIS/HER EMPLOYEES, AGENTS AND CONSULTANTS FROM AND AGAINST ALL CLAIMS, LOSSES, DEMANDS, COSTS AND EXPENSES (INCLUDING LEGAL FEES), DAMAGES OR RECOVERIES (INCLUDING ANY AMOUNTS PAID IN SETTLEMENT) ARISING BY REASON OF, CAUSED OR ALLEGED TO BE CAUSED, BY THE USER'S RELIANCE ON THIS ELECTRONIC DOCUMENT.

1. 2024.11.04 ISSUED FOR AV TENDER  
No. Date Issue/Revision

PROJECT CONTACT

NAME: DAI GALARDO

TEL: 416 572 8503

Email: pat.galarido@smithandandersen.com

Smith + Andersen  
1100 - 100 Bloor Street East, Toronto, Ont. M4W 1B5  
416 497 8101 • 416 497 8104 smithandandersen.com

No. Date Issue/Revision

Robarts 5th Floor MDL  
Renovation

Title:

AV CONDUIT NOTES

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

Drawing No.

AV300





Prior to commencement of the Work the contractor shall verify all drawing dimensions, datums, and levels with the Contract documents and with the conditions on site; ascertain and discrepancies between the site and the contract documents, and bring these items to the attention of the consultant for clarification.

**superk<sup>2</sup>l**

COPYRIGHT IN THIS ELECTRONIC DOCUMENT BELONGS TO SMITH AND ANDERSEN. THIS ELECTRONIC DOCUMENT MAY NOT BE FORWARDED TO OTHERS, TRANSMITTED, DOWNLOADED, REPRODUCED IN ANY FORMAT, WHETHER PRINT OR ELECTRONIC, WITHOUT THE EXPRESS, WRITTEN PERMISSION OF THE COPYRIGHT OWNER. USE OF THIS ELECTRONIC DOCUMENT IS AT THE USER'S OWN RISK. THE USER SHALL INDEMNIFY AND SAVE HARMLESS THE ARCHITECT, HIS/HER EMPLOYEES, AGENTS AND CONSULTANTS FROM AND AGAINST ALL CLAIMS, LOSSES, DAMAGES AND EXPENSES (INCLUDING LEGAL FEES), DAMAGES OR RECOVERIES (INCLUDING ANY AMOUNTS PAID IN SETTLEMENT) ARISING BY REASON OF THE USER'S MISUSE OR CAUSED BY THE USER'S RELIANCE ON THIS ELECTRONIC DOCUMENT.

No.	Date	Issue/Revision
1.	2024.11.04	ISSUED FOR AV TENDER

**PROJECT CONTACT**

NAME: PAT GALARDO

TEL: 416 572 8503

EMAIL: pat.galarado@smithandandersen.com

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

**Smith + Andersen**  
1109 - 100 Sheppard Ave. East, Toronto, ON, M2N 6N5  
416 487 8151 f 416 487 9104 [env@smithandersen.com](mailto:env@smithandersen.com)

Robarts 5th Floor MDL  
Renovation

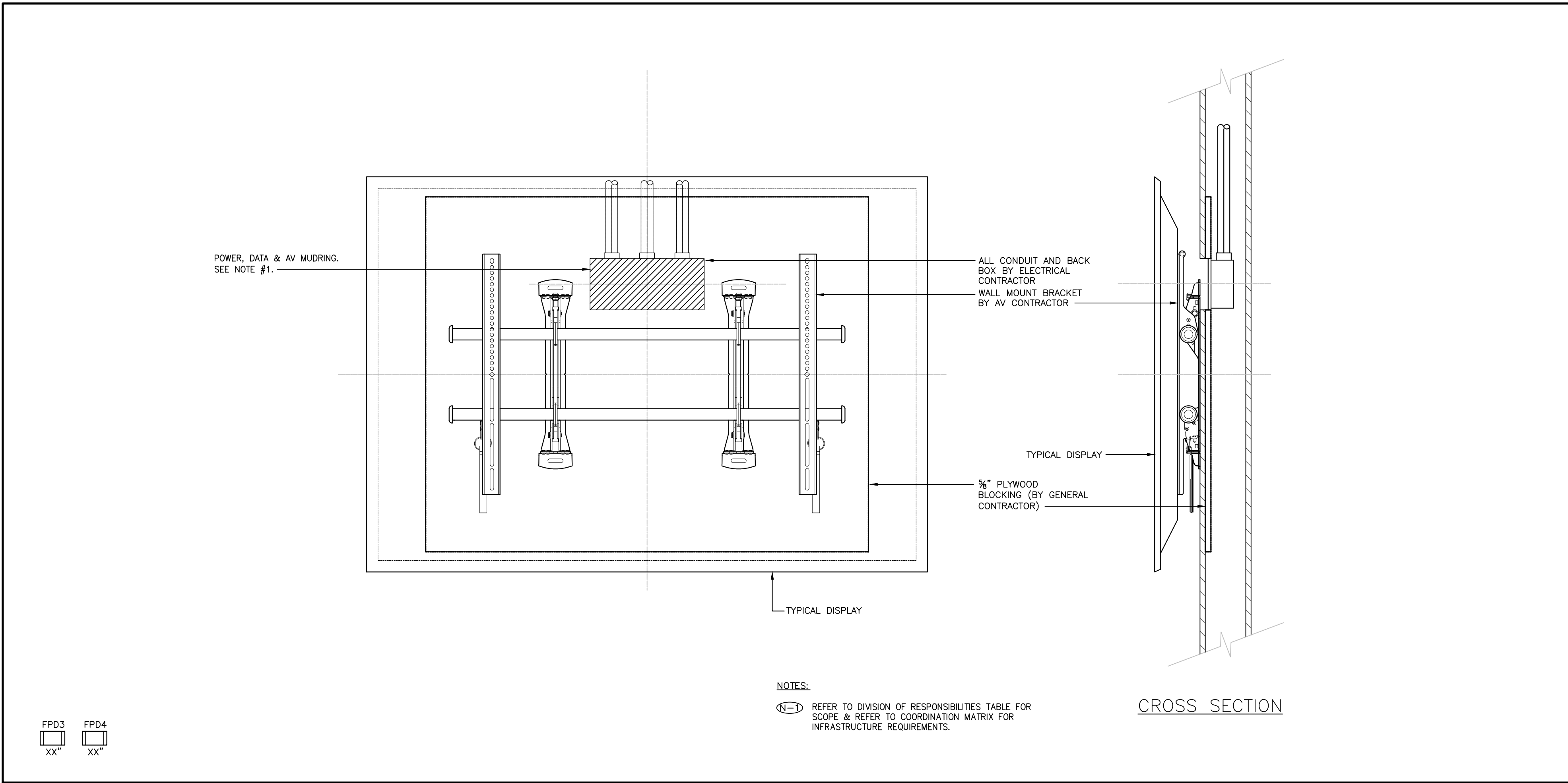
Title:

AV RISER DIAGRAMS

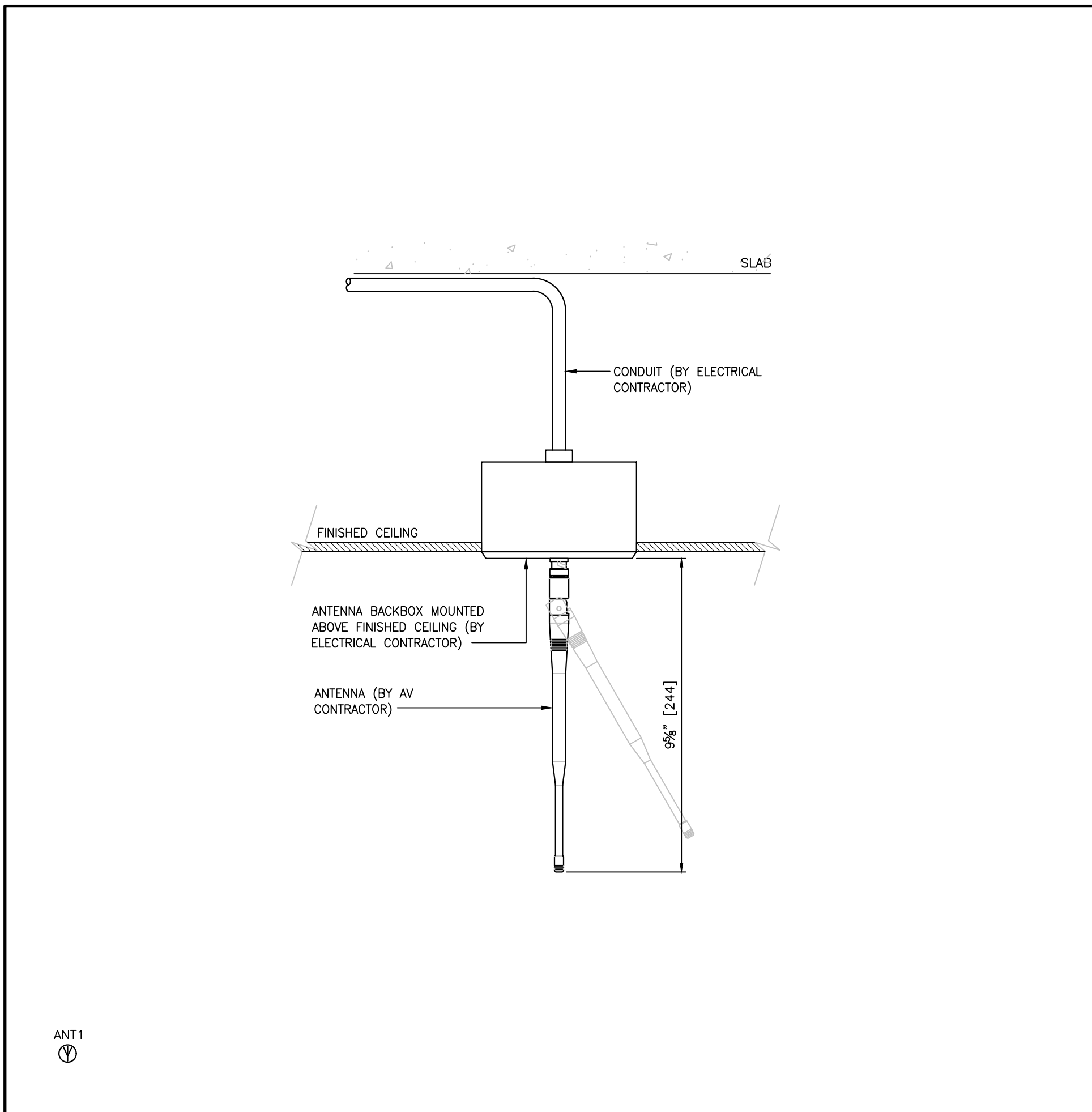
Project No.08086.009.MEAVD	Scale AS NOTED
Drawing No.	

**AV301**

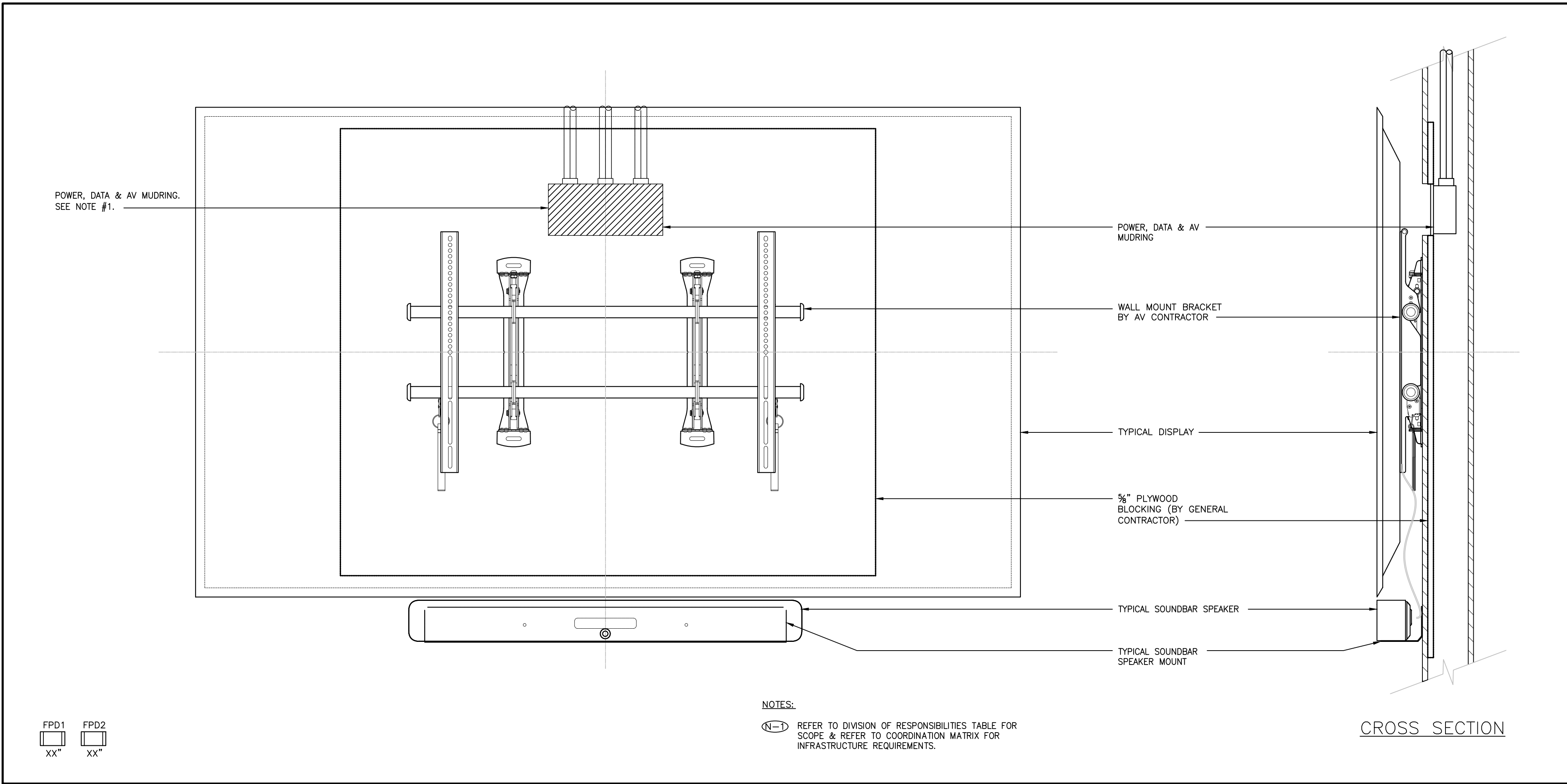




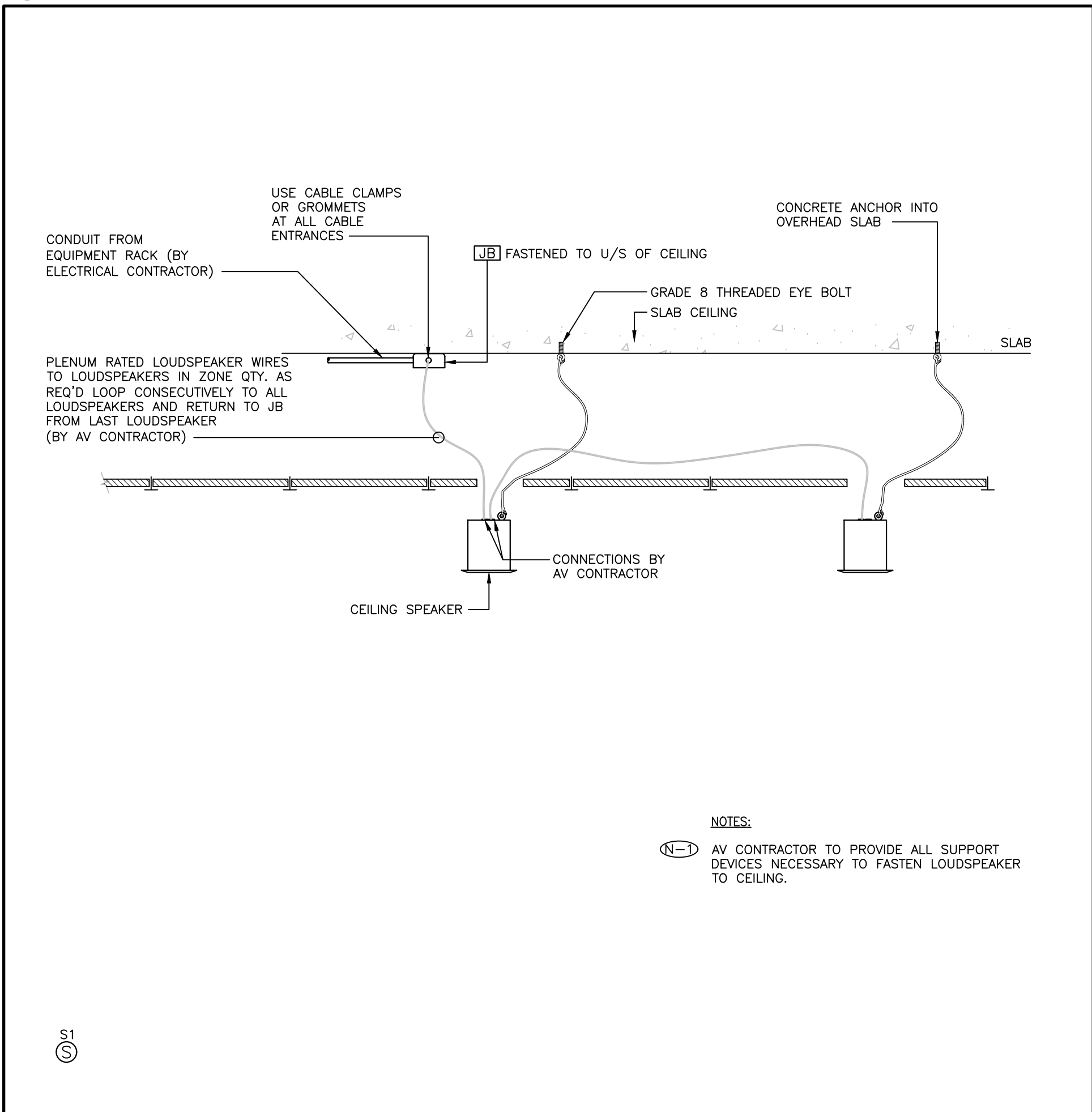
4 WALL MOUNT FLAT PANEL DISPLAY  
SCALE: NTS



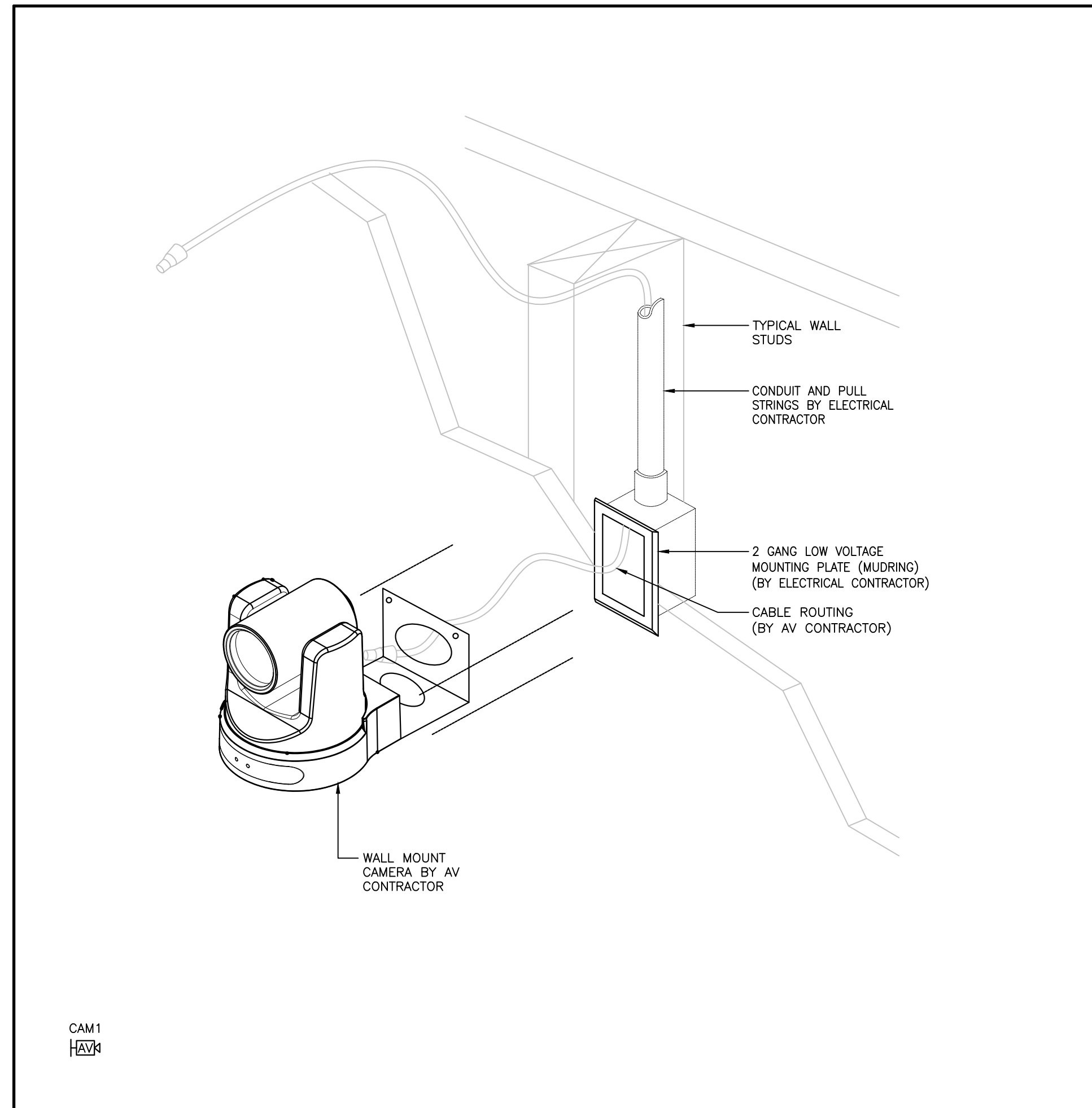
5 TYPICAL WIRELESS MICROPHONE ANTENNA  
SCALE: NTS



6 WALL MOUNT DISPLAY W/ SOUND BAR  
SCALE: NTS



7 TYPICAL CEILING SPEAKER INSTALLATION INTO TILE  
SCALE: NTS



8 WALL MOUNT CAMERA  
SCALE: NTS

Copyright reserved. This design and drawings are the exclusive property of the Consultant and cannot be used for any purpose without the written consent of the Consultant. This drawing is not to be used for construction until issued for that purpose by the Consultant.

Prior to commencement of the Work the contractor shall verify all drawing dimensions, datums, and levels with the Contract documents and with the conditions on site; ascertain and discrepancies between the site and the contract documents, and bring these items to the attention of the consultant for clarification.

superk

COPYRIGHT IN THIS ELECTRONIC DOCUMENT BELONGS TO SMITH AND ANDERSEN. THIS ELECTRONIC DOCUMENT MAY NOT BE FORWARDED TO OTHERS, TRANSMITTED, DOWNLOADED OR REPRODUCED IN ANY FORMAT, WHETHER PRINT OR ELECTRONIC, WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE COPYRIGHT OWNER. USE OF THIS ELECTRONIC DOCUMENT IS AT THE USER'S OWN RISK. THE USER SHALL INDEMNIFY AND SAVE HARMLESS THE ARCHITECT, HIS/HER EMPLOYEES, AGENTS AND CONSULTANTS FROM AND AGAINST ALL CLAIMS, LOSSES, DEMANDS, COSTS AND EXPENSES (INCLUDING LEGAL FEES), DAMAGES OR RECOVERIES (INCLUDING ANY AMOUNTS PAID IN SETTLEMENT) ARISING BY REASON OF, CAUSED, OR ALLEGED TO BE CAUSED, BY THE USER'S RELIANCE ON THIS ELECTRONIC DOCUMENT.

1. 2024.11.04 ISSUED FOR AV TENDER  
No. Date Issue/Revision

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

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

**Smith + Andersen**  
1109 - 100 Bloor Street East, Toronto, Ont. M4W 1B5  
416 497 8101 • 416 497 8104 smithandandersen.com  
No. Date Issue/Revision

Robarts 5th Floor MDL  
Renovation

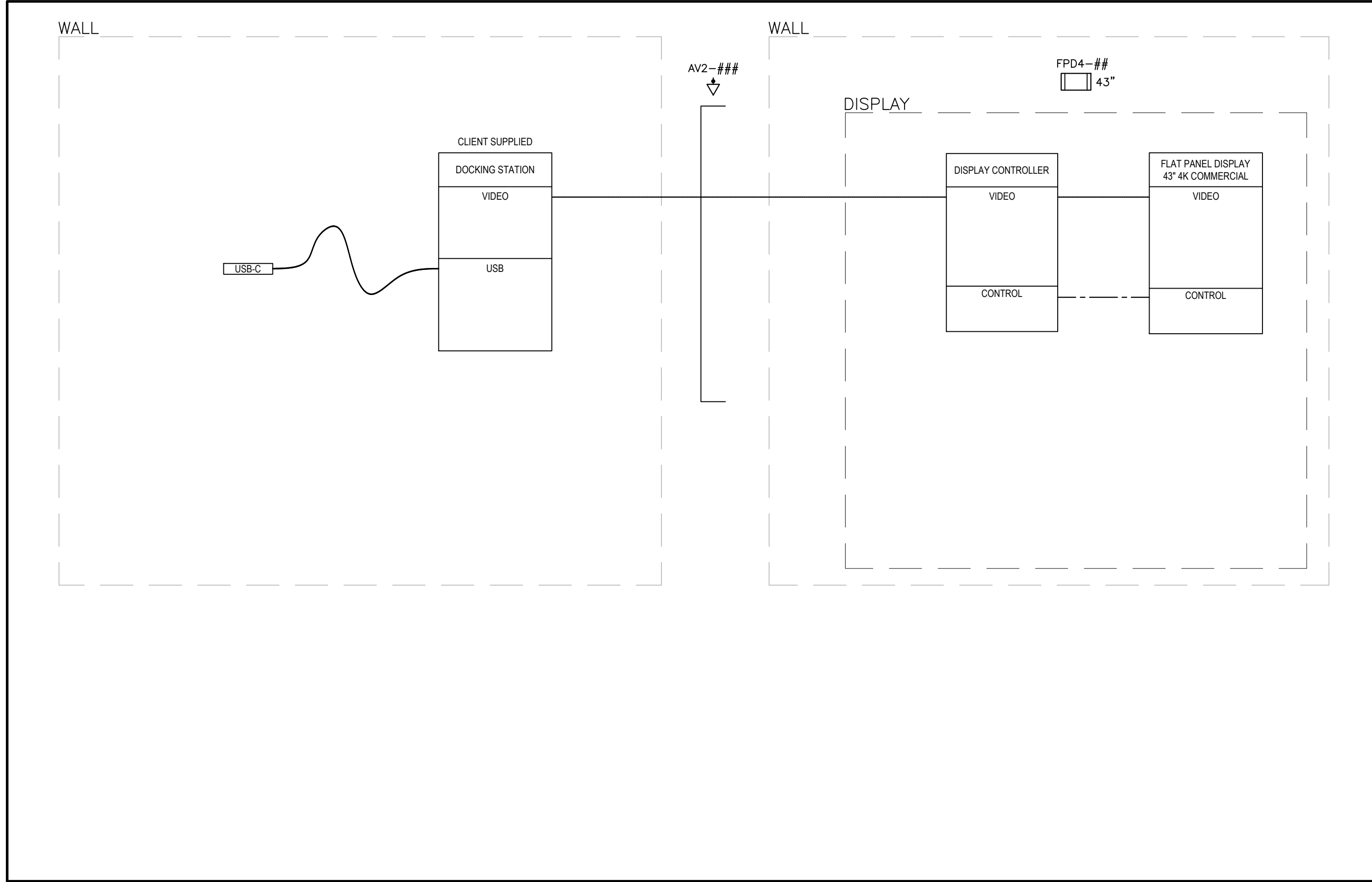
Title:  
AV DETAILS

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

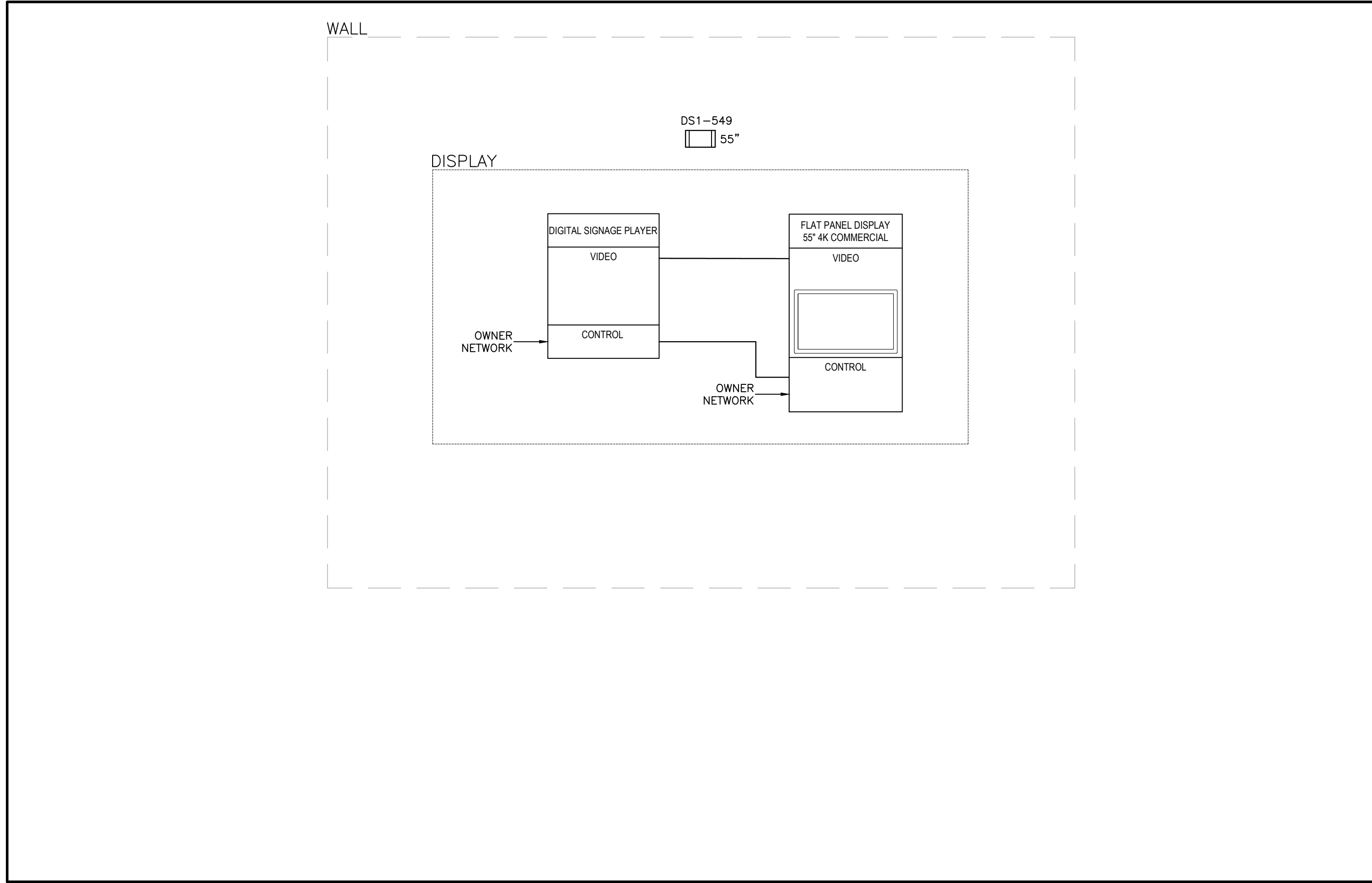
AV400



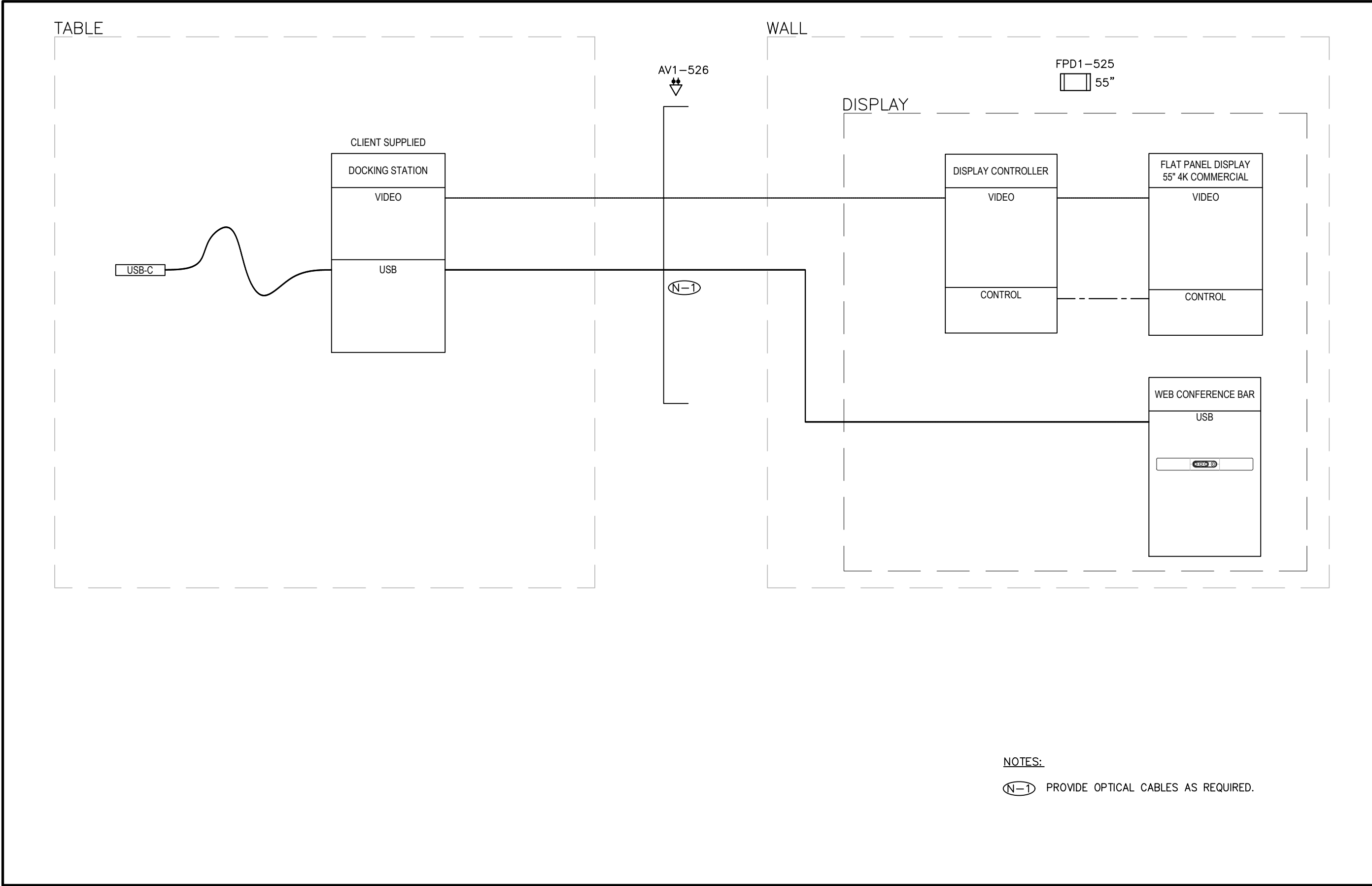
LEGEND	
HDLine*	
VIDEO	
AUDIO	
CONTROL	
USB	



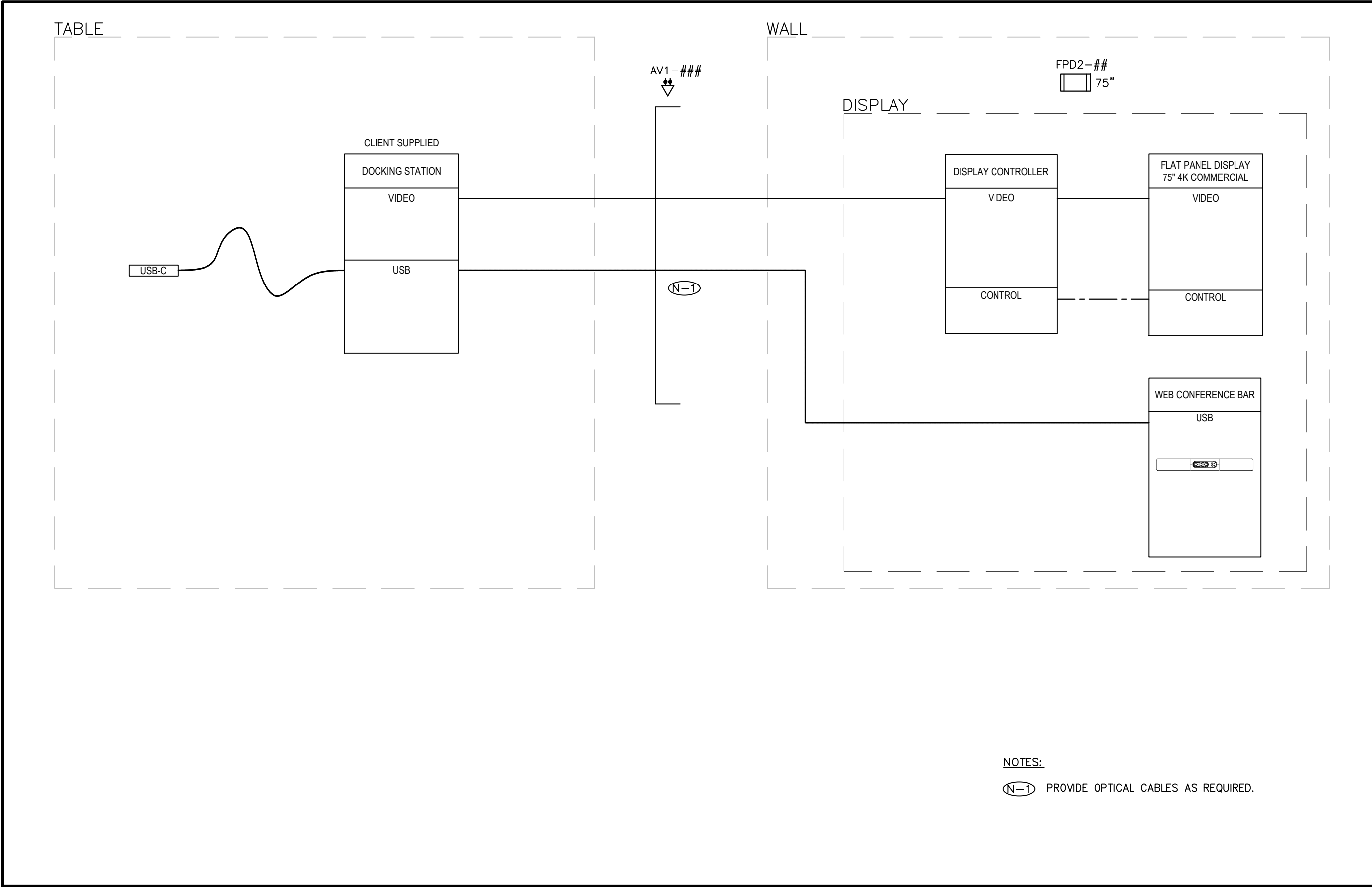
4 TYPE 4 - OPEN COLLABORATION TABLES  
AV500 AV FUNCTIONAL DIAGRAM



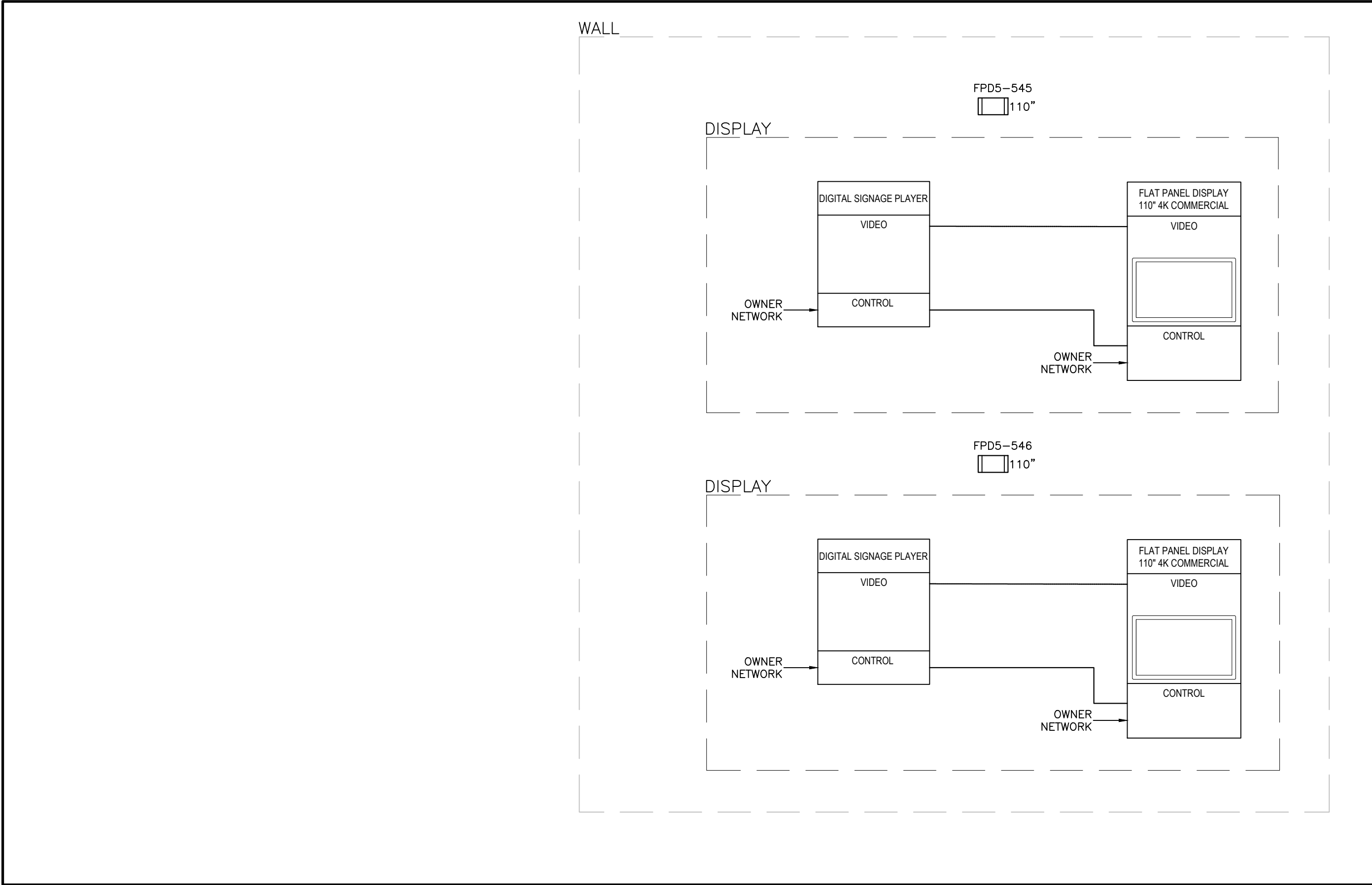
5 TYPE 5 - DIGITAL SIGNAGE  
AV500 AV FUNCTIONAL DIAGRAM



1 TYPE 1A - COLLABORATION ROOM  
AV500 AV FUNCTIONAL DIAGRAM



2 TYPE 1B - COLLABORATION ROOM  
AV500 AV FUNCTIONAL DIAGRAM



3 TYPE 2 - DIGITAL LOUNGE  
AV500 AV FUNCTIONAL DIAGRAM

Copyright reserved. This design and drawings are the exclusive property of the Consultant and cannot be used for any purpose without the written consent of the Consultant. This drawing is not to be used for construction until issued for that purpose by the Consultant.

Prior to commencement of the Work the contractor shall verify all drawing dimensions, datums, and levels with the Contract documents and with the conditions on site; ascertain and discrepancies between the site and the contract documents, and bring these items to the attention of the consultant for clarification.

superk

COPYRIGHT IN THIS ELECTRONIC DOCUMENT BELONGS TO SMITH AND ANDERSEN. THIS ELECTRONIC DOCUMENT MAY NOT BE FORWARDED TO OTHERS, TRANSMITTED, DOWNLOADED OR REPRODUCED IN ANY FORMAT, WHETHER PRINT OR ELECTRONIC, WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE COPYRIGHT OWNER. USE OF THIS ELECTRONIC DOCUMENT IS AT THE USER'S OWN RISK. THE USER SHALL INDEMNIFY AND SAVE HARMLESS THE ARCHITECT, HIS/HER EMPLOYEES, AGENTS AND CONSULTANTS FROM AND AGAINST ALL CLAIMS, LOSSES, DEMANDS, COSTS AND EXPENSES (INCLUDING LEGAL FEES), DAMAGES OR RECOVERIES (INCLUDING ANY AMOUNTS PAID IN SETTLEMENT) ARISING BY REASON OF, CAUSED, OR ALLEGED TO BE CAUSED, BY THE USER'S RELIANCE ON THIS ELECTRONIC DOCUMENT.

1. 2024.11.04 ISSUED FOR AV TENDER  
No. Date Issue/Revision

PROJECT CONTACT  
NAME: PAT GALARD  
TEL: 416 572 8503  
Email: pat.galard@smithandandersen.com  
THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL SPECIFICATION SUBMITTED FOR THIS PROJECT.

Smith + Andersen  
1100 - 100 Bloor Street East, Toronto, Ont. M4W 1A5  
416 497 8101 • 416 497 8104 smithandandersen.com  
No. Date Issue/Revision

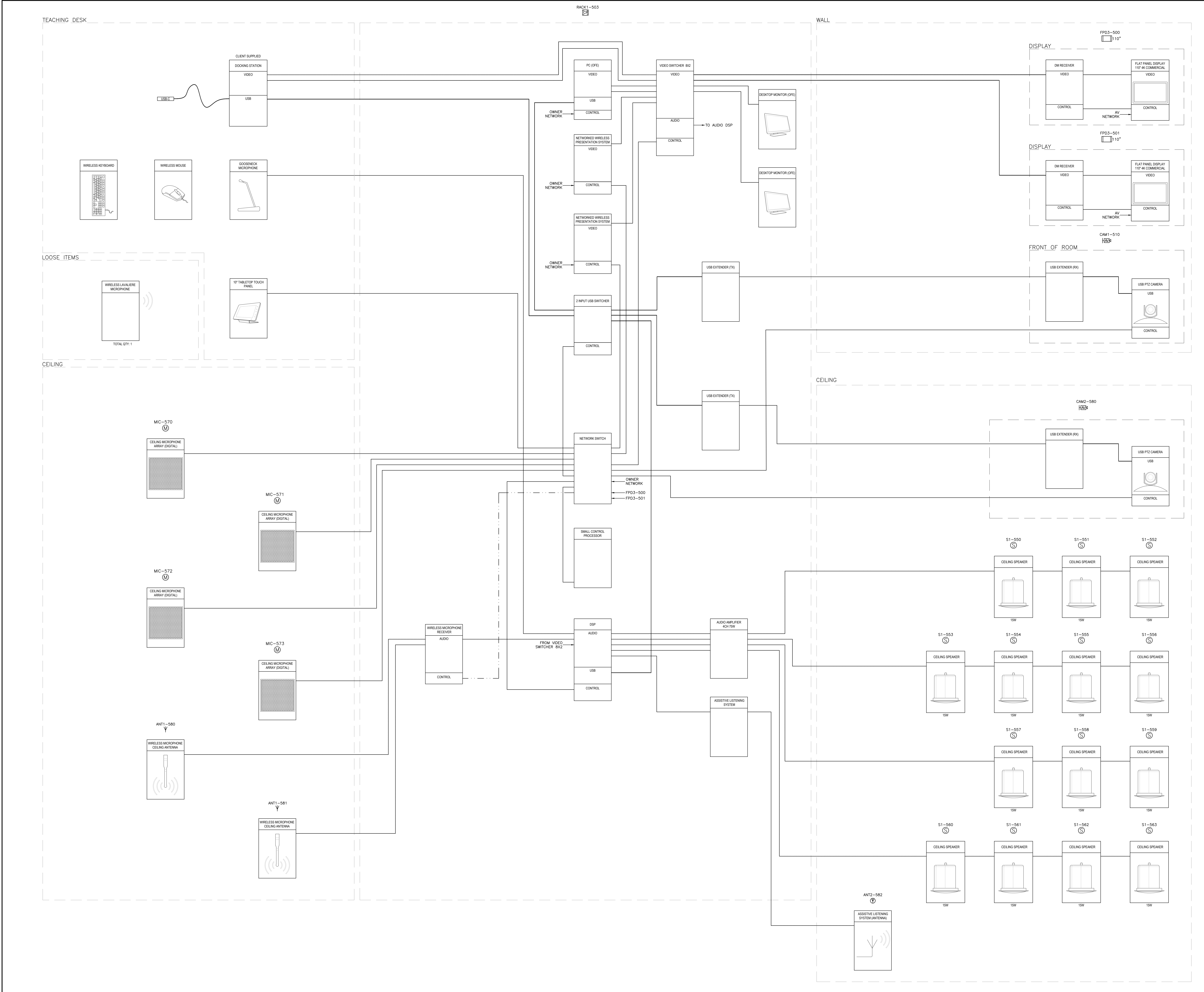
Robarts 5th Floor MDL  
Renovation

Title:  
AV FUNCTIONALS

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

AV500





3 TYPE 3 - TEACHING LAB  
AV FUNCTIONAL DIAGRAM

LEGEND	
HDLine*	
VIDEO	
AUDIO	
CONTROL	
USB	

Copyright reserved. This design and drawings are the exclusive property of the Consultant and cannot be used for any purpose without the written consent of the Consultant. This drawing is not to be used for construction until issued for that purpose by the Consultant.

Prior to commencement of the Work the contractor shall verify all drawing dimensions, datum, and levels with the Contract documents and with the conditions on site; ascertain and discrepancies between the site and the contract documents, and bring these items to the attention of the consultant for clarification.


superk'i

COPYRIGHT IN THIS ELECTRONIC DOCUMENT BELONGS TO SMITH AND ANDERSEN. THIS ELECTRONIC DOCUMENT MAY NOT BE FORWARDED TO OTHERS, TRANSMITTED, DOWNLOADED OR REPRODUCED IN ANY FORMAT, WHETHER PRINT OR ELECTRONIC, WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE COPYRIGHT OWNER. USE OF THIS ELECTRONIC DOCUMENT IS AT THE USER'S OWN RISK. THE USER SHALL INDEMNIFY AND SAVE HARMLESS THE ARCHITECT, HIS/HER EMPLOYEES, AGENTS AND CONSULTANTS FROM AND AGAINST ALL CLAIMS, LOSSES, DEMANDS, COSTS AND EXPENSES (INCLUDING LEGAL FEES), DAMAGES OR RECOVERIES (INCLUDING ANY AMOUNTS PAID IN SETTLEMENT) ARISING BY REASON OF, CAUSED, OR ALLEGED TO BE CAUSED, BY THE USER'S RELIANCE ON THIS ELECTRONIC DOCUMENT.

1. 2024.11.04 ISSUED FOR AV TENDER  
No. Date Issue/Revision

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

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

 Smith + Andersen 1109 - 100 Bloor Street East, Toronto, Ont. M4W 1B5 416 497 8101 • 416 497 8104 smithandandersen.com	
No. Date	Issue/Revision

Robarts 5th Floor MDL  
Renovation

Title:  
AV FUNCTIONALS

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

AV501