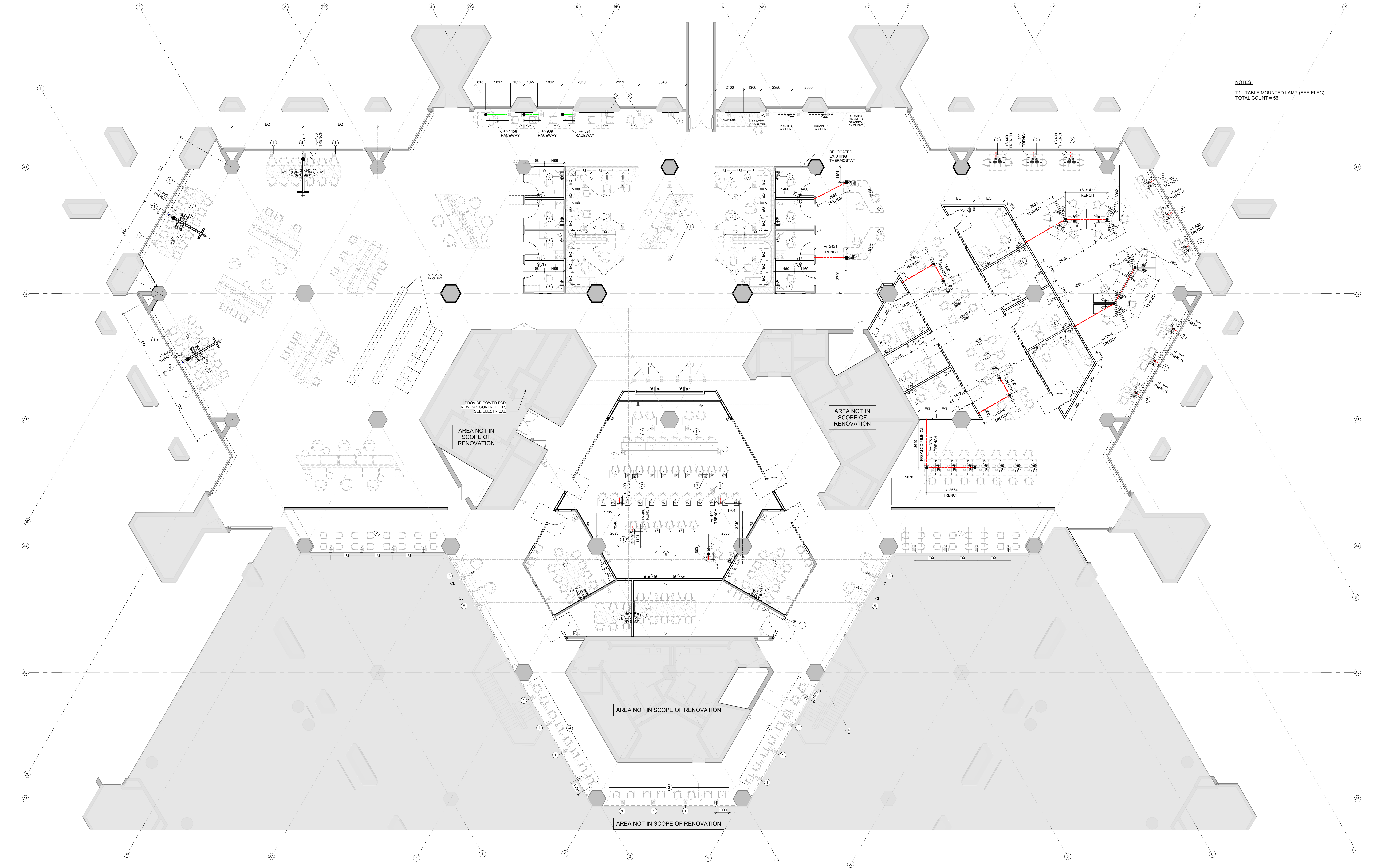


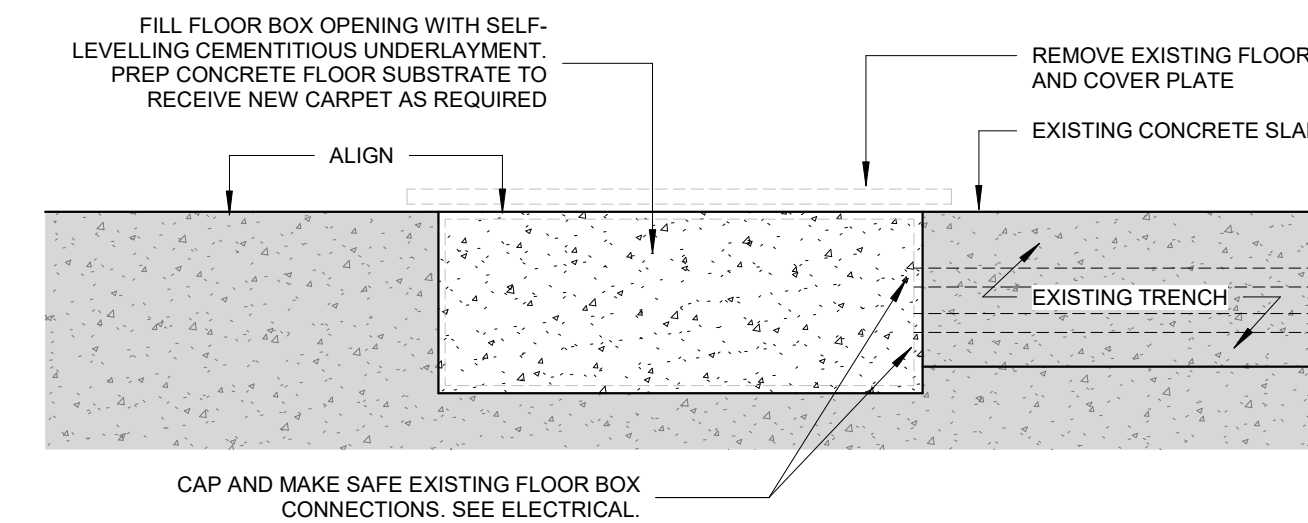




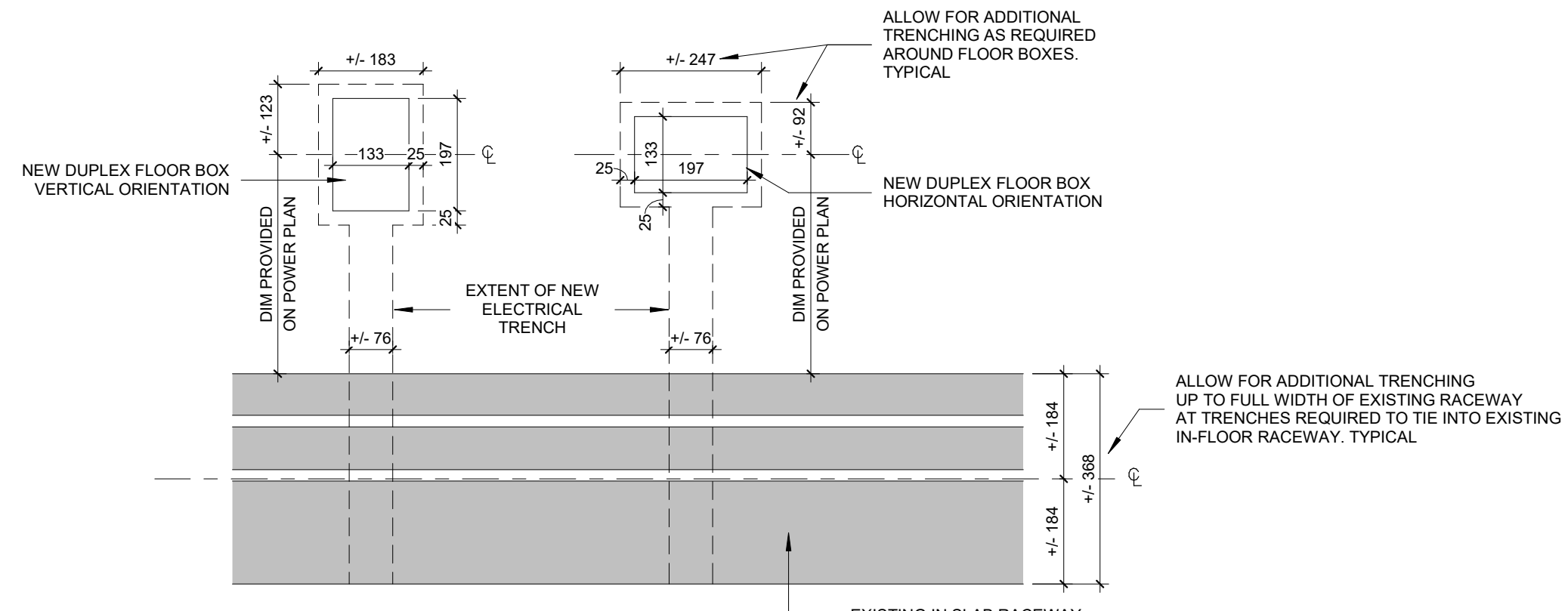
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1 L05 Power Plan  
1:100



3 Plan Detail - Typical Decommissioned Electrical Floor Box  
1:10



2 Plan Detail - Typical Electrical Trench  
1:10

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**POWER PLAN LEGEND:**

- 1 FURNITURE/MILLWORK MOUNTED POWER RECEPTACLE, REFER TO ELEC.  
**NOTE:** ALL RECEPTACLES TO BE COORDINATED WITH EXISTING RACEWAY SYSTEM & MILLWORK.
- 2 ELECTRICAL BOX W/ AIRPWR COMBO RECEPTACLE FOR PLUG-IN POWER, REFER TO ELEC.  
**NOTE:** ALL RECEPTACLES TO BE COORDINATED WITH EXISTING RACEWAY SYSTEM & MILLWORK.
- 3 RECESSED FLOOR BOX FOR HARDWARE POWER CONNECTION & DATA CABLING, REFER TO ELEC.  
**NOTE:** ALL RECEPTACLES TO BE COORDINATED WITH EXISTING RACEWAY SYSTEM & MILLWORK.
- 4 EXISTING RECESSED FLOOR BOX FOR HARDWARE POWER CONNECTION & DATA CABLING, REFER TO ELEC.  
**NOTE:** ALL RECEPTACLES TO BE COORDINATED WITH EXISTING RACEWAY SYSTEM & MILLWORK.
- 5 CONDUIT STUBS FOR HARDWARE POWER CONNECTIONS  
**NOTE:** ALL TO BE COORDINATED WITH EXISTING RACEWAY SYSTEM & MILLWORK.
- 6 WALL MOUNTED RECEPTACLE, REFER TO ELECTRICAL FOR RECEPTACLE TYPE.
- 7 EXISTING WALL MOUNTED RECEPTACLE, REFER TO ELECTRICAL.
- 8 WALL MOUNTED VOICEDATA RECEPTACLE, REFER TO ELECTRICAL.
- 9 EXISTING WALL MOUNTED VOICEDATA RECEPTACLE, REFER TO ELECTRICAL.
- 10 LIGHT SWITCH, SEE ELECTRICAL.
- 11 POWER DOOR OPERATOR ACTUATOR, SEE HARDWARE SCHEDULE & ELECTRICAL.

**NOTE:**  
Y DENOTES RECEPTACLE/ELECTRICAL BOXES PROVIDED AS PART OF FURNITURE PACKAGE. CONNECT FURNITURE RECEPTACLES AS REQUIRED. SEE ELEC.

- 12 APPROXIMATE LOCATION OF EXISTING IN-SLAB RACEWAY SYSTEM. SEE ELEC.
- 13 APPROX EXTENT OF TRENCHING REQUIRED FOR POWER, DATA, OR AV WIRING. SEE ELEC.
- 14 APPROX EXTENT OF ELEC AND/OR AV WIRING INSTALLED WITHIN EXISTING PERIMETER GRILLES. SEE ELEC.
- 15 APPROX EXTENT OF CEILING MOUNTED WIRING. SEE ELEC.
- 16 APPROX EXTENT OF SURFACE RACEWAY. SEE ELEC.

**POWER PLAN GENERAL NOTES**

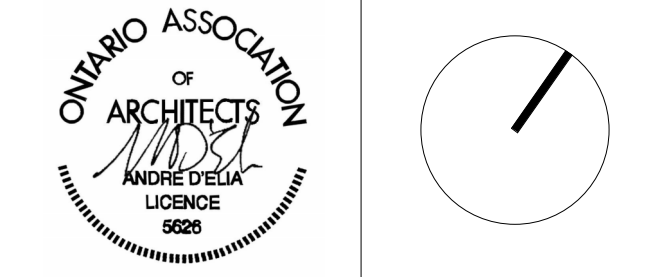
- 1) ALL POWER AND DATA REQUIREMENTS ARE TO BE COORDINATED WITH ELECTRICAL AND AV CONSULTANTS.
- 2) GO TO REVIEW EXACT LOCATION OF FLOOR BOXES AND RACEWAY OUTLETS W/ CONSULTANT TEAM PRIOR TO TRENCHING CONCRETE OR CUTTING WIREMOLD.
- 3) REFER TO ENLARGED PLANS AND INTERIOR ELEVATIONS FOR SWITCHES, PDQ, AND THERMOSTAT LOCATING DIMENSIONS.

**POWER PLAN NOTES**

- 1 DEMOLISH EXISTING DECOMMISSIONED ELECTRICAL FLOOR BOXES, ALL ASSOCIATED WIRING AND EXPOSED CONDUIT. FILL FLOOR BOX OPENING WITH SELF-LEVELING CEMENTITIOUS UNDERLAYMENT. REFER TO TYPICAL DETAIL.
- 2 HARDWARE NEW FURNITURE INTO EXISTING ELECTRICAL FLOOR BOXES.
- 3 HARDWARE MILLWORK INTO EXISTING ELECTRICAL FLOOR BOXES. MODIFY FLOOR BOXES AS REQUIRED TO RECEIVE AV/ATA CONNECTIONS FROM ADJACENT PERIMETER FLOOR GRILLES. ALLOW FOR TRENCHING TO CONNECT FLOOR BOXES TO ADJACENT PERIMETER GRILLES AS REQUIRED.
- 4 DEMOLISH EXISTING FLOOR BOXES. RE-USE EXISTING POWER CONDUIT RUNNING THROUGH PERIMETER FLOOR GRILLES. PROVIDE TRENCHING FROM PERIMETER FLOOR GRILLES AS REQUIRED FOR NEW COMMUNICATIONS CONDUIT. PROVIDE POWER AND COMMUNICATIONS STUB UPS TERMINATING IN NEW MILLWORK AS REQUIRED. SEE ELECTRICAL & AV.
- 5 MODIFY EXISTING FLOOR BOXES FOR HARDWIRED POWER AS REQUIRED TO EXTEND OUTLETS TO THE FACE OF MILLWORK. SEE ELECTRICAL.
- 6 SEE INTERIOR ELEVATIONS FOR WALL POWER & COMMUNICATIONS RECEPTACLES LOCATING DIMENSIONS. REFER TO ELECTRICAL, AV, AND TYPICAL MOUNTING HEIGHTS.
- 7 REPLACE EXISTING FLOOR BOX FOR HARDWIRED POWER WITH ELECTRICAL FLOOR BOX FOR PLUG-IN POWER. PROVIDE ADDITIONAL TRENCHING AS REQUIRED. REFER TO 2/104 AND SEE ELEC.

7	20241021	ISSUED FOR ADDENDUM A-02
6	20240927	ISSUED FOR TENDER
5	20240816	ISSUED FOR BUILDING PERMIT
4	20240806	ISSUED FOR 100% CD
3	20240429	ISSUED FOR 80% CD COSTING
2	20231213	ISSUED FOR DD CLIENT REVIEW
1	20231128	ISSUED FOR DD COSTING & REVIEW

No. Date Issue/Revision



**Robarts 5th Floor  
Renovation**

Title:  
**L05 Power Plan**

Project No. 2322 Scale As Indicated  
Drawing No.

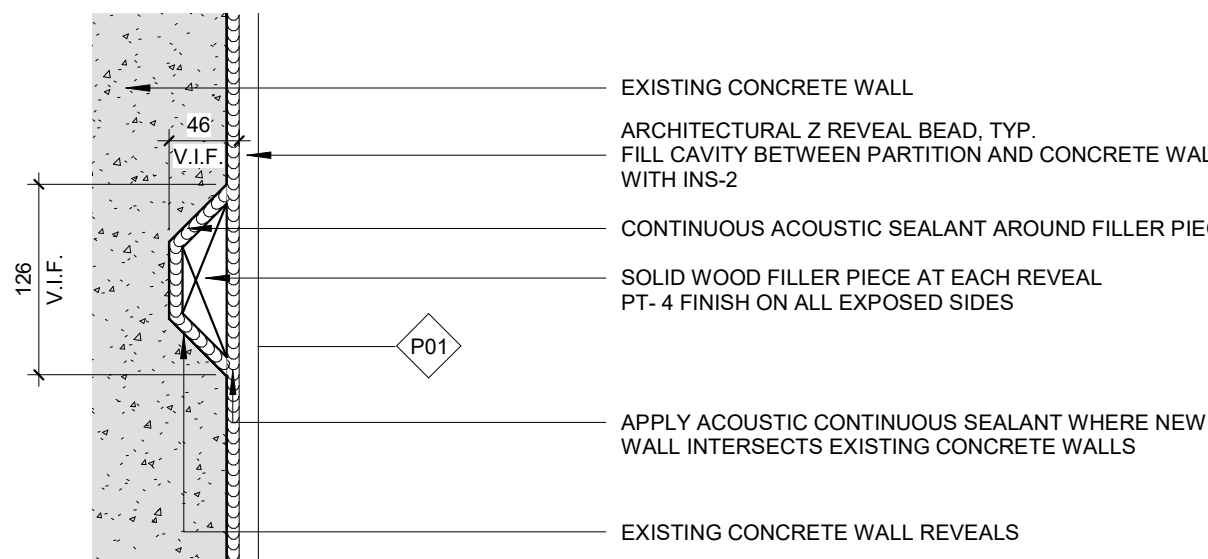


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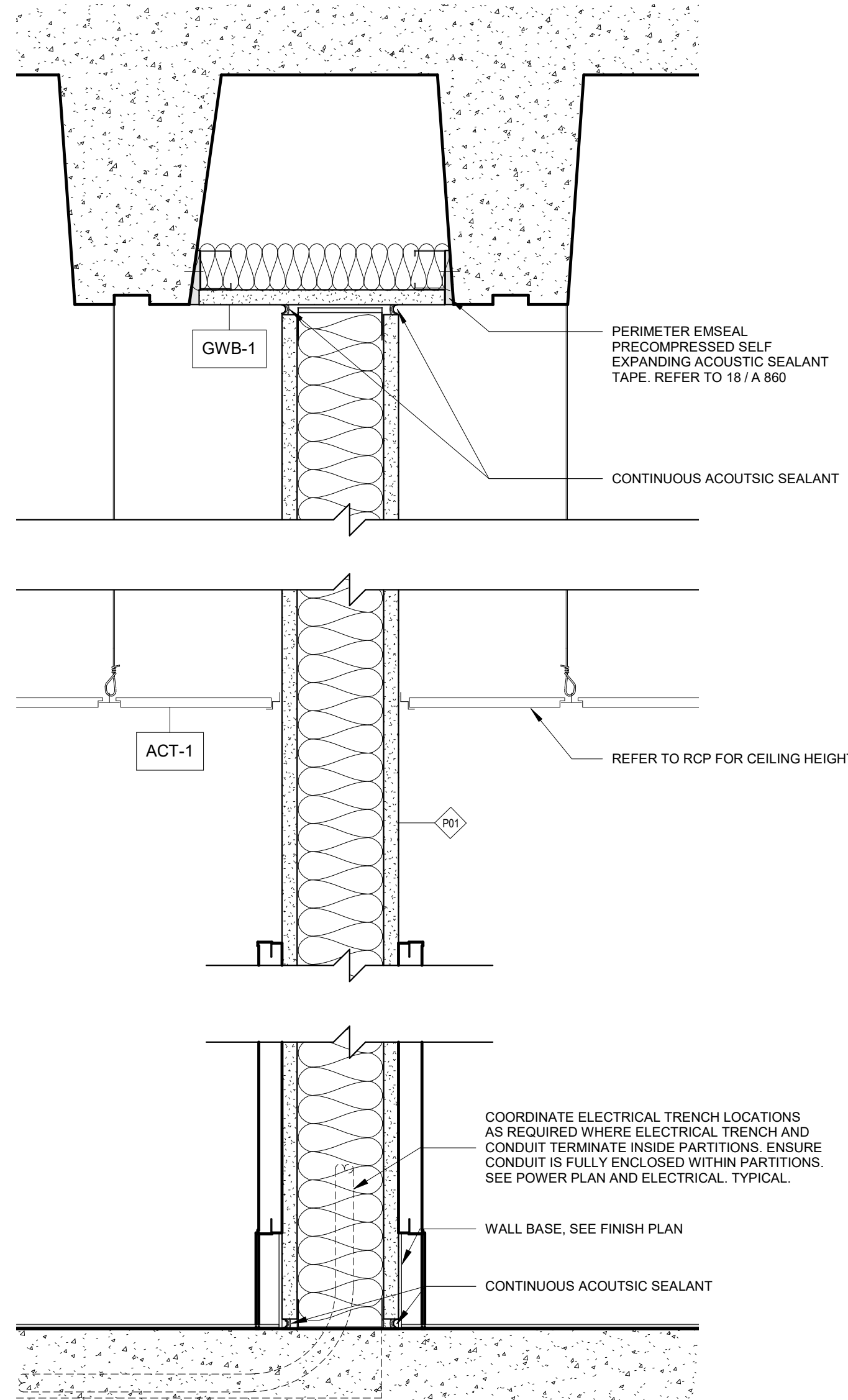
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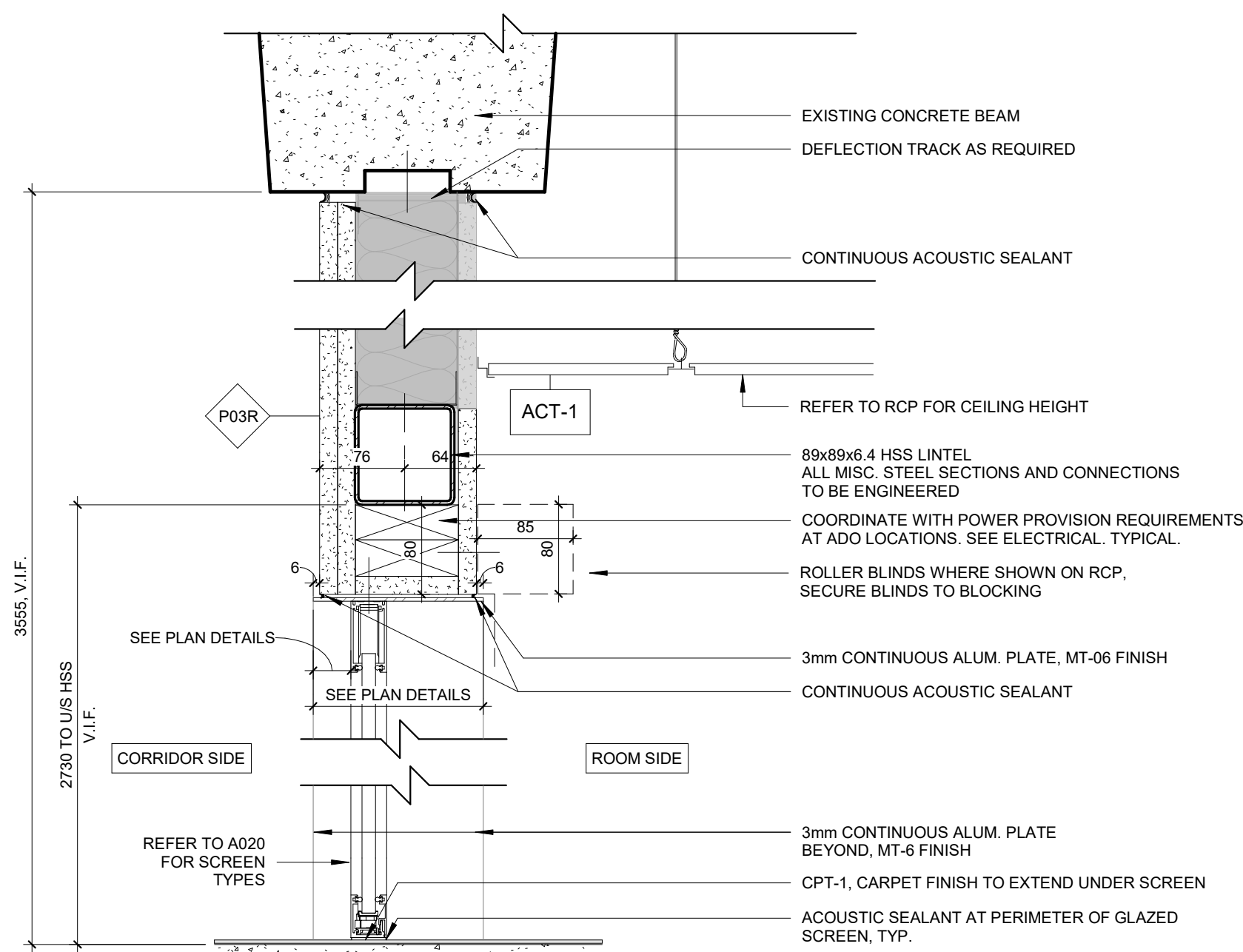
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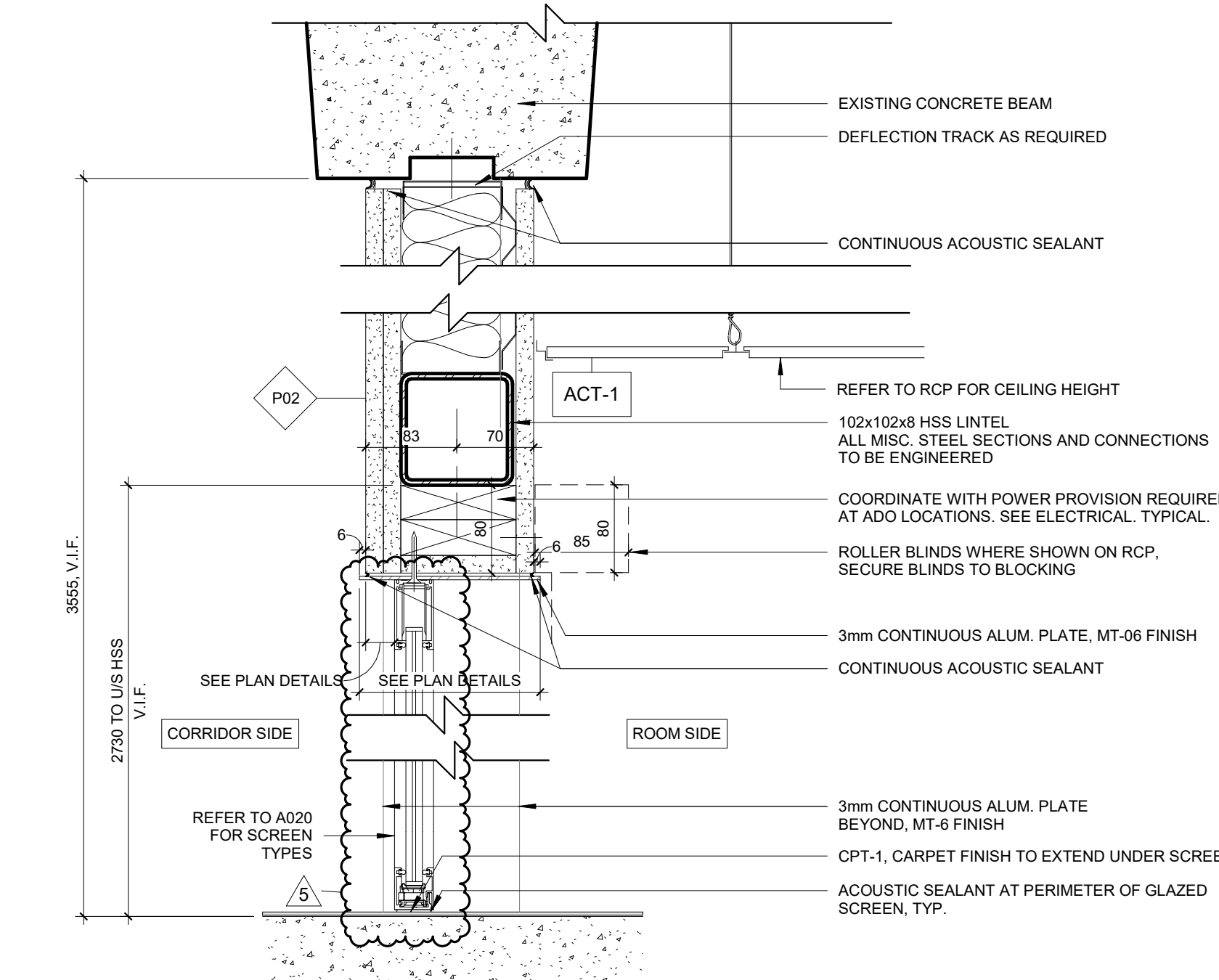
3 New Partition Meets Existing Concrete Wall Section Detail  
1:5



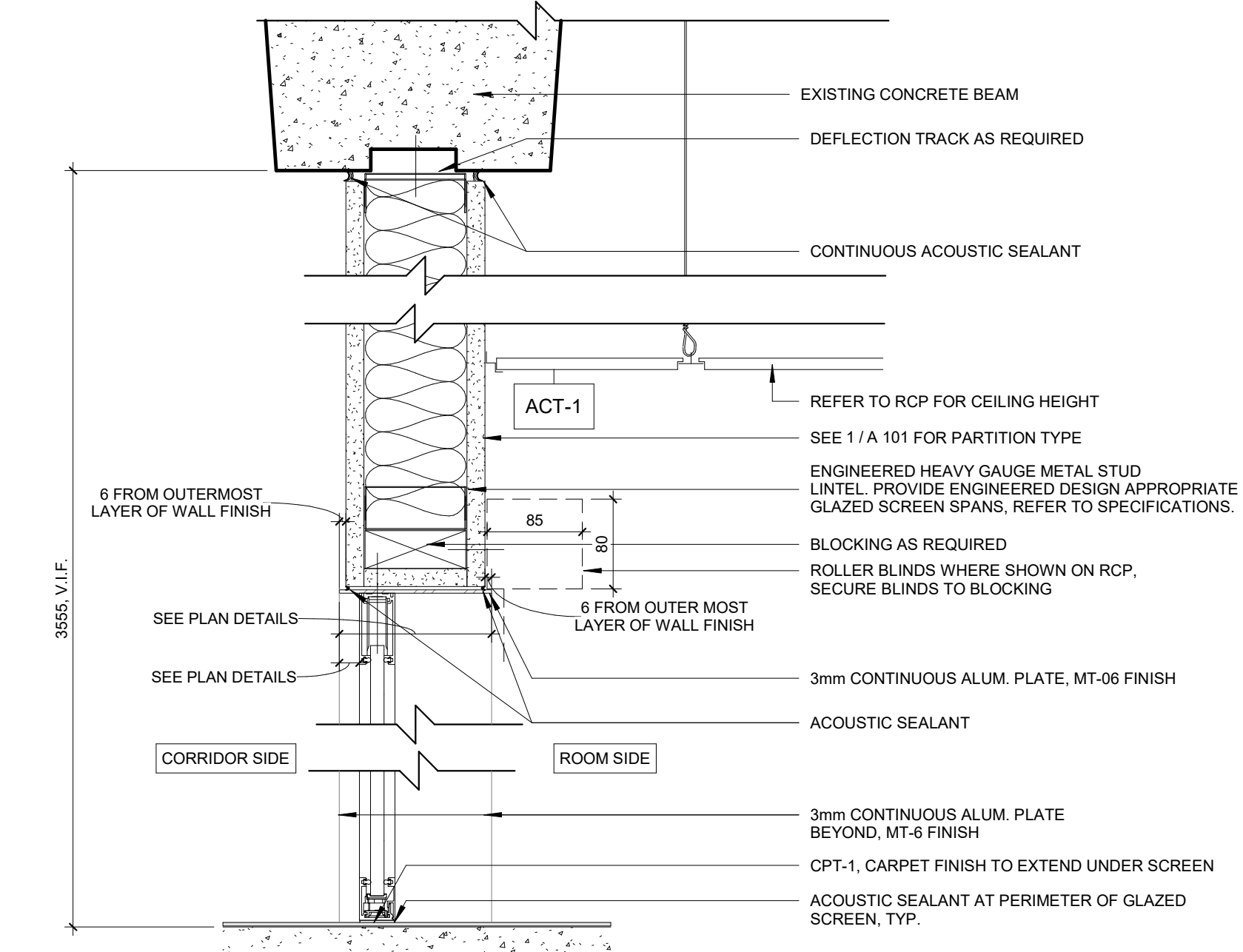
7 Typical Section at Top of HSS Column  
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6 Typical Interior SH & Header Steel Support  
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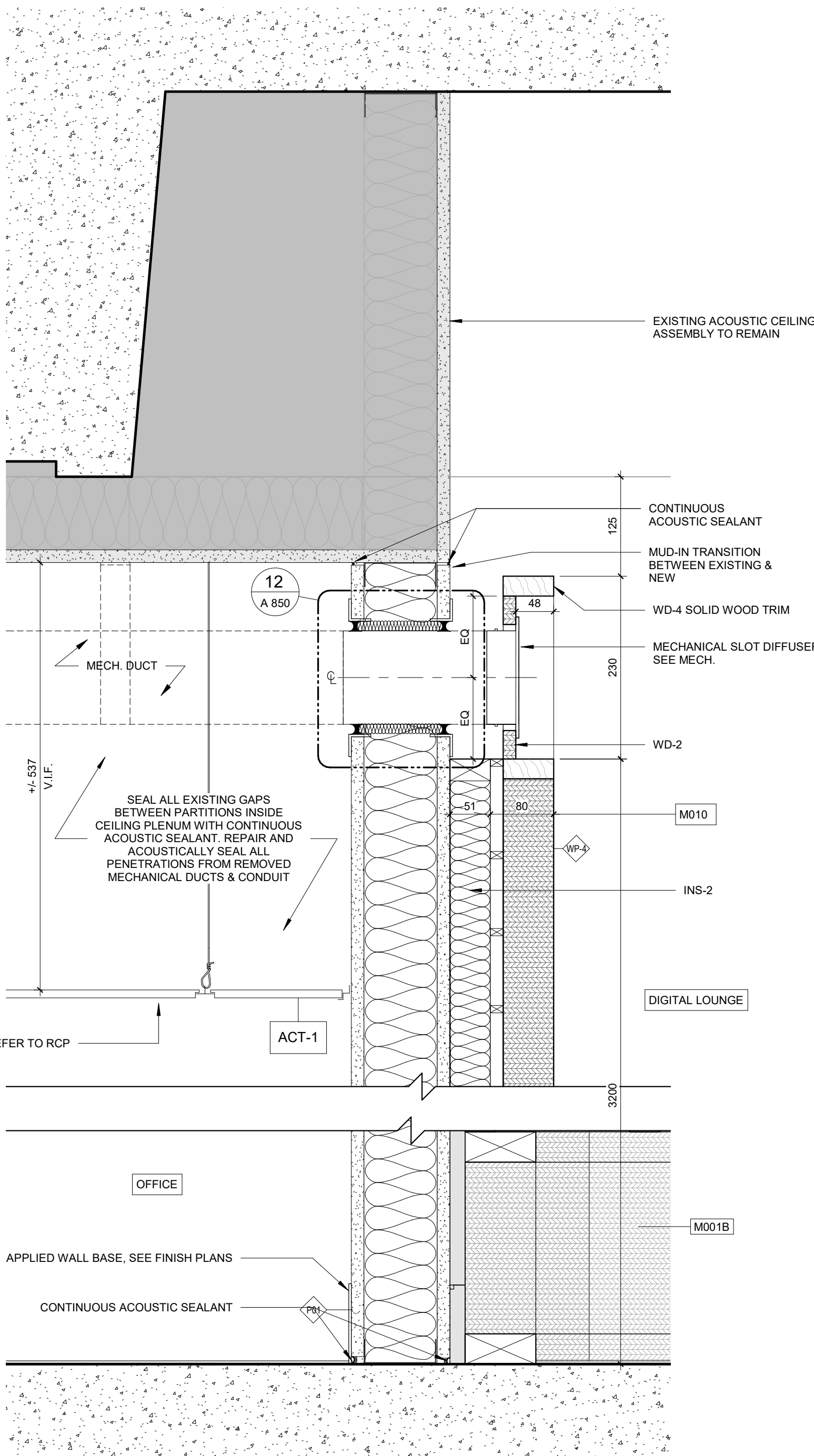


5 Typical Interior SH & Header Steel Support  
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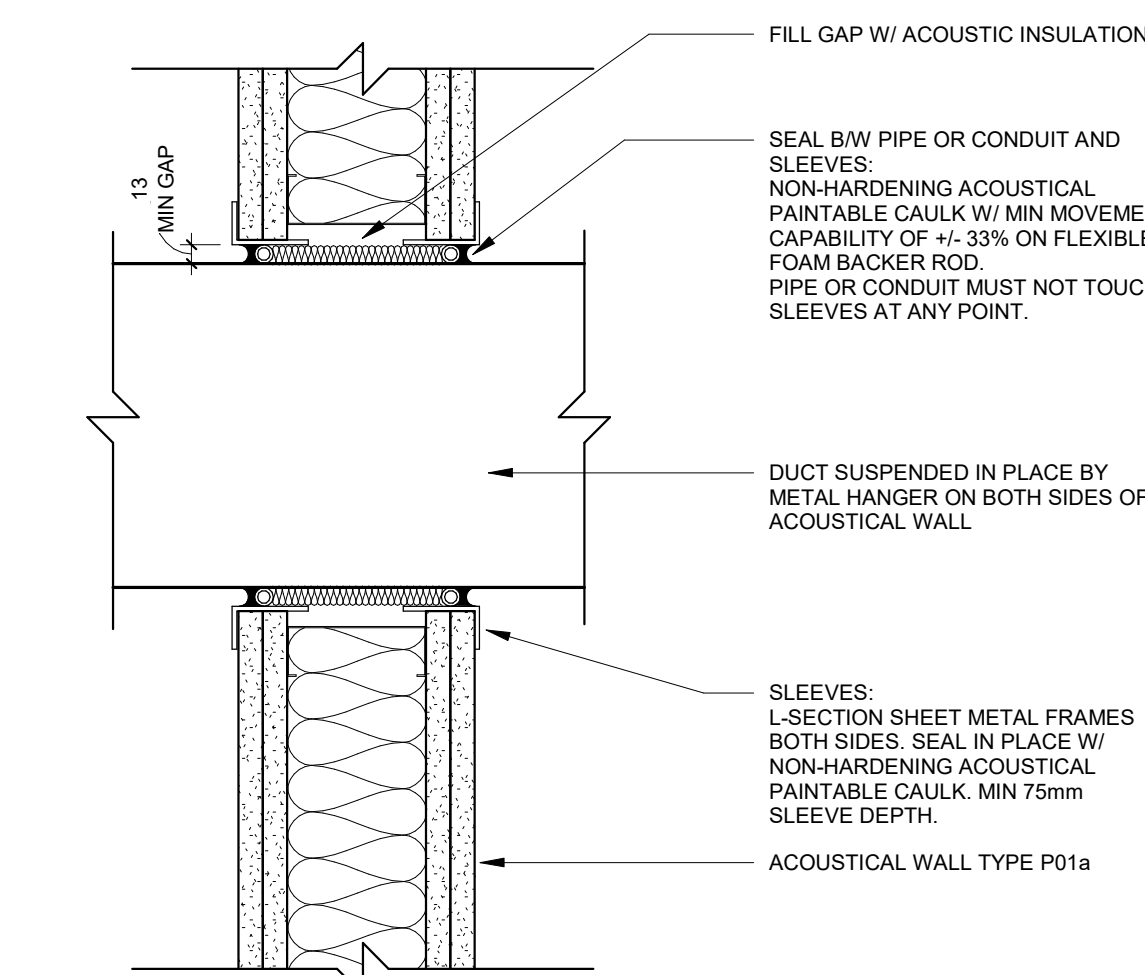


4 Typical Interior Screen SH and Header  
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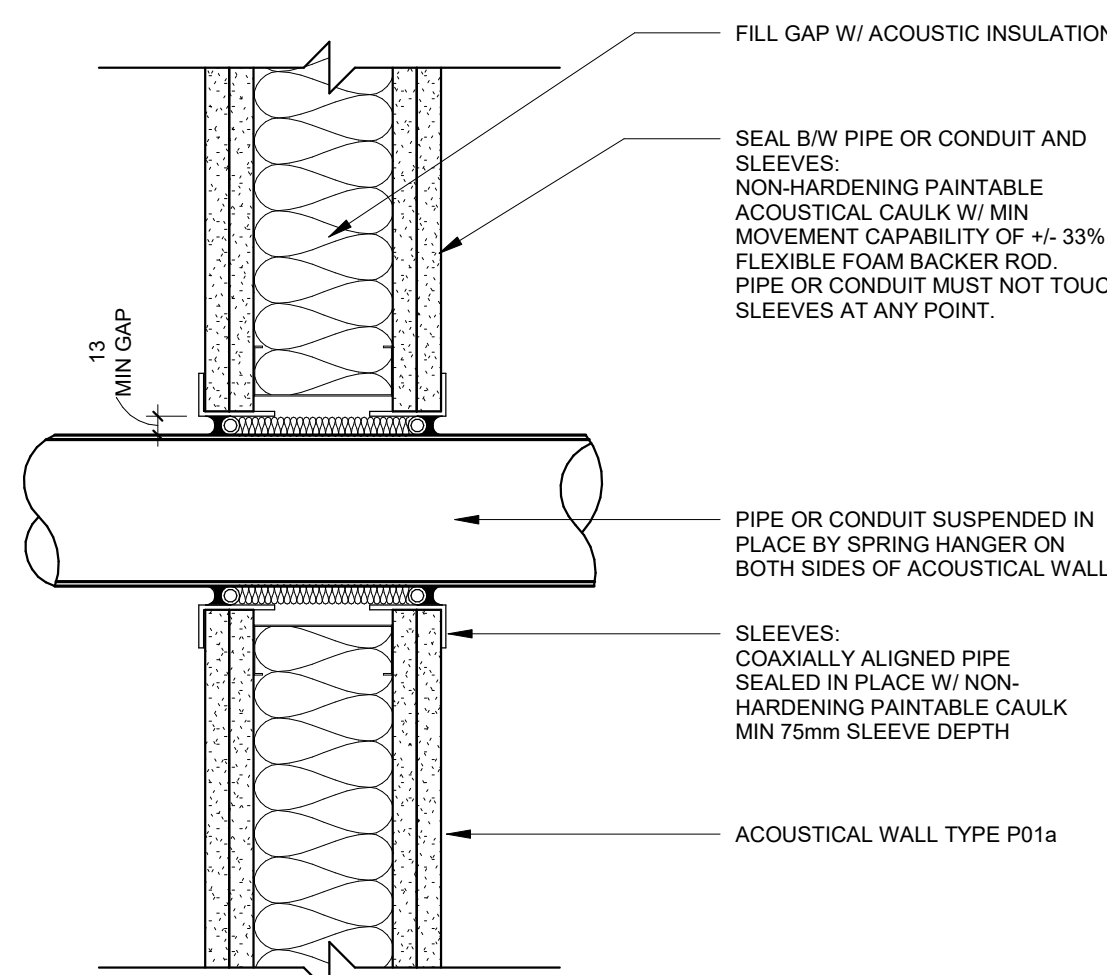
2 Typical Section Detail: Interior Acoustic Panel  
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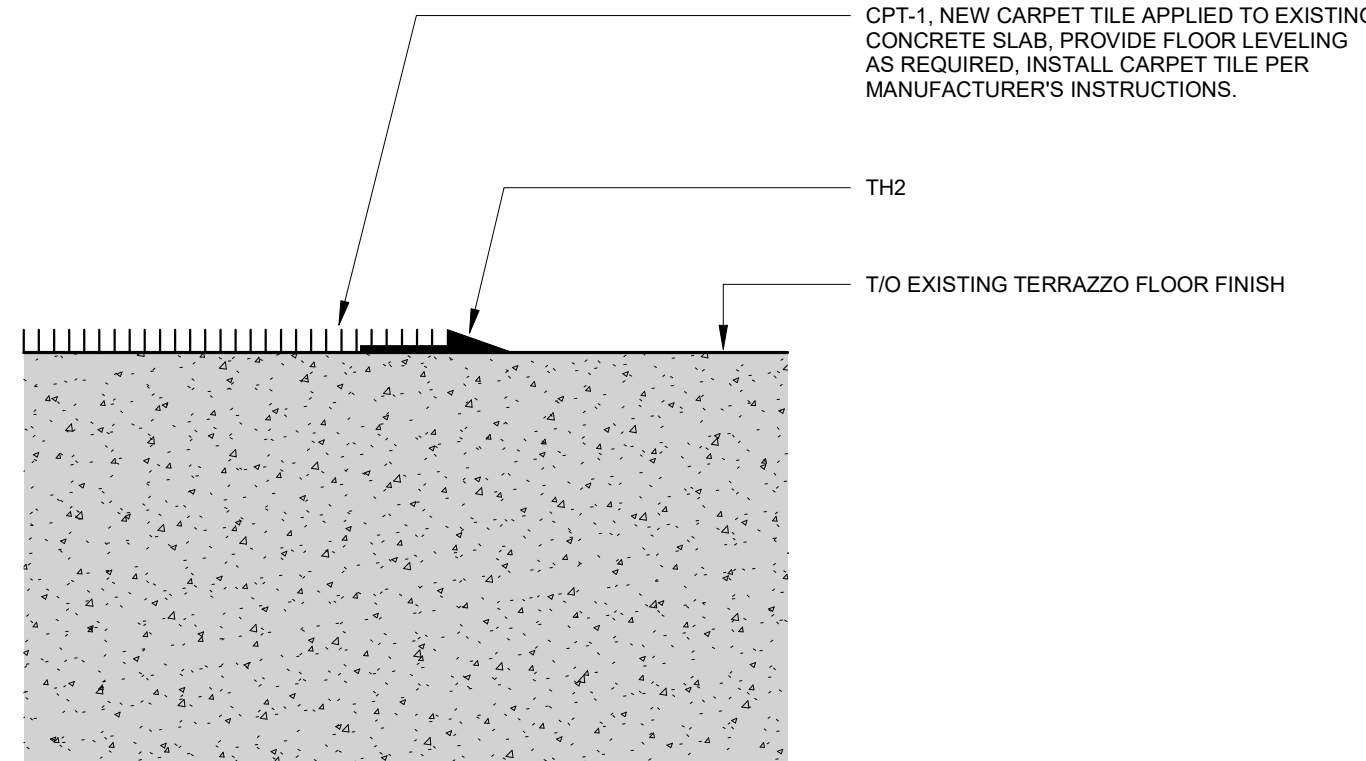
1 Section Detail - Acoustic Partition at Existing Offices  
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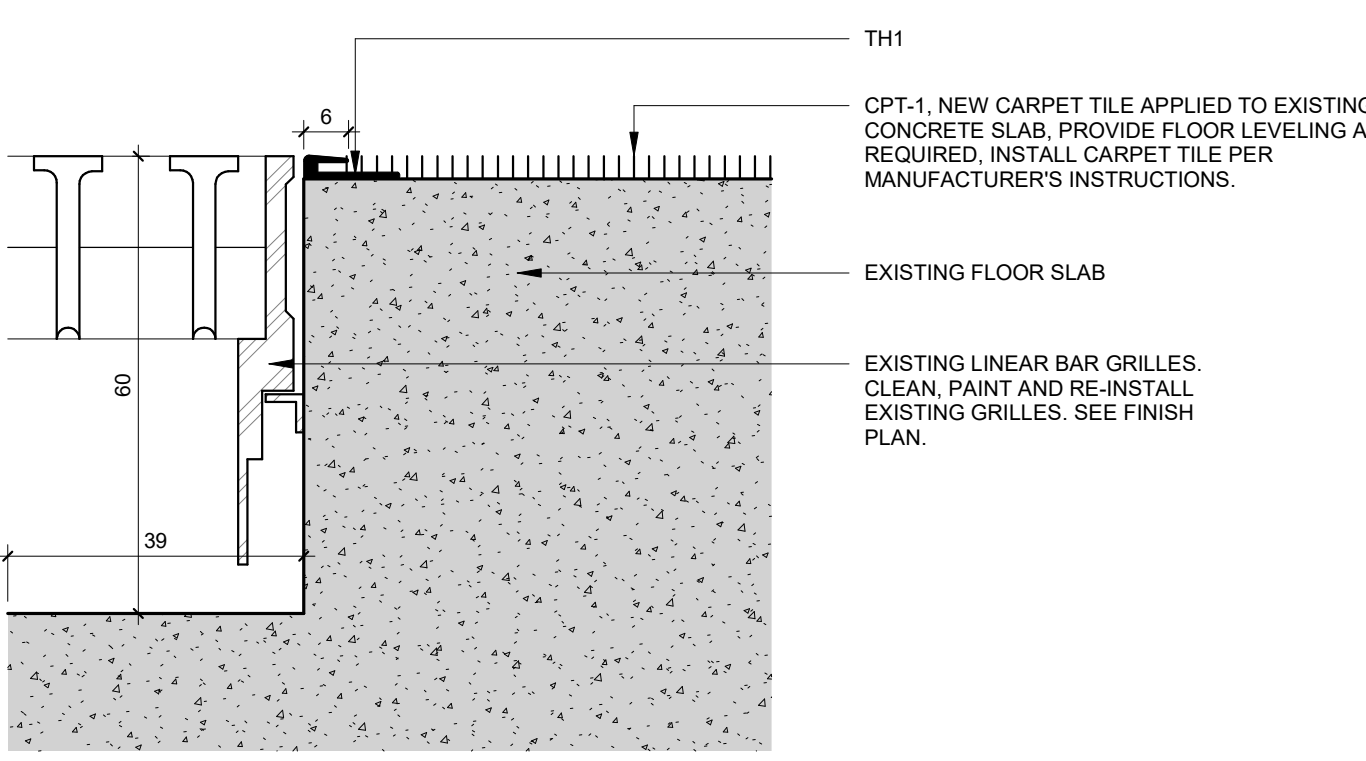
12 Section Detail - Duct Penetration  
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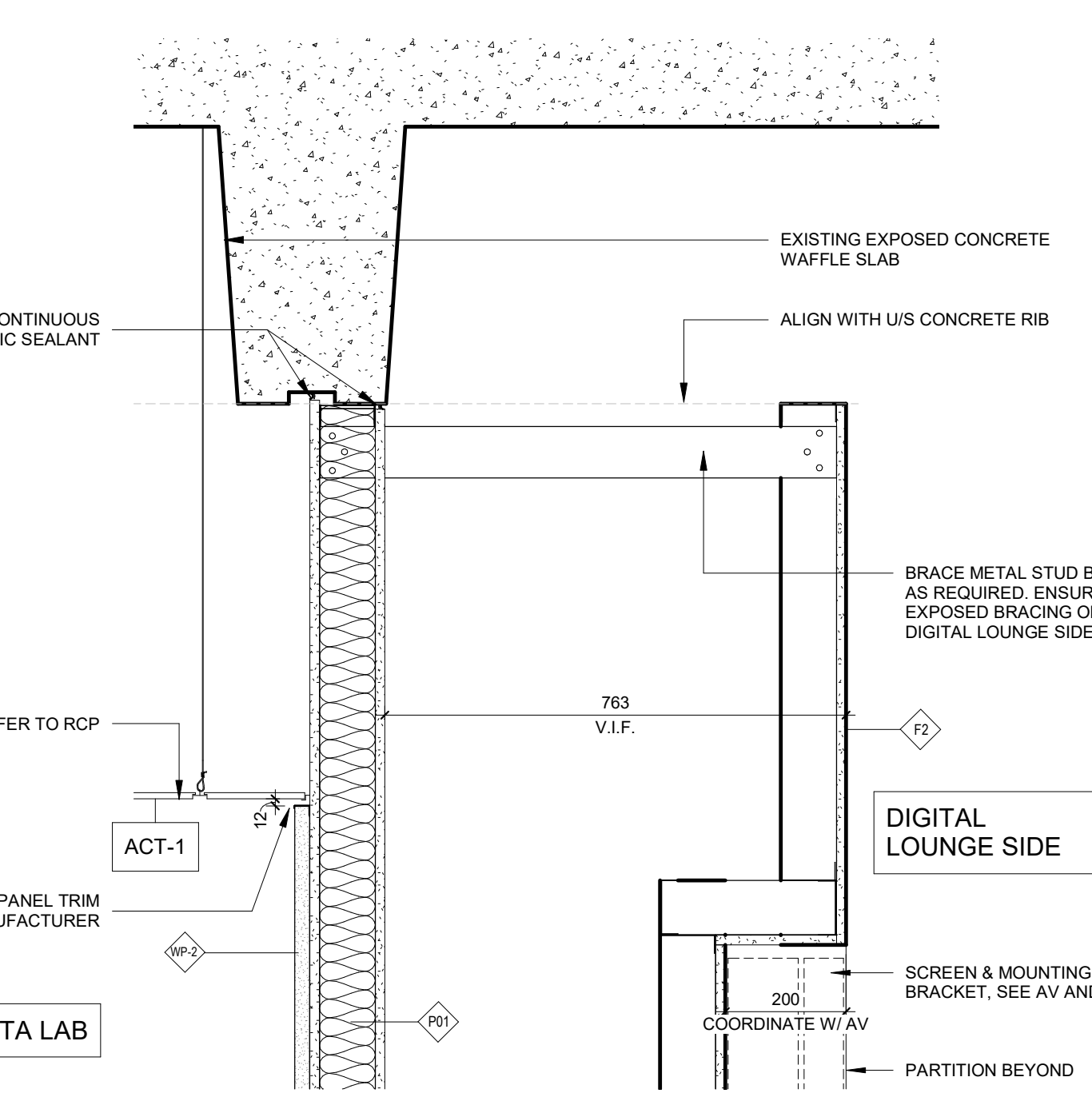
11 Section Detail - Pipe Penetration  
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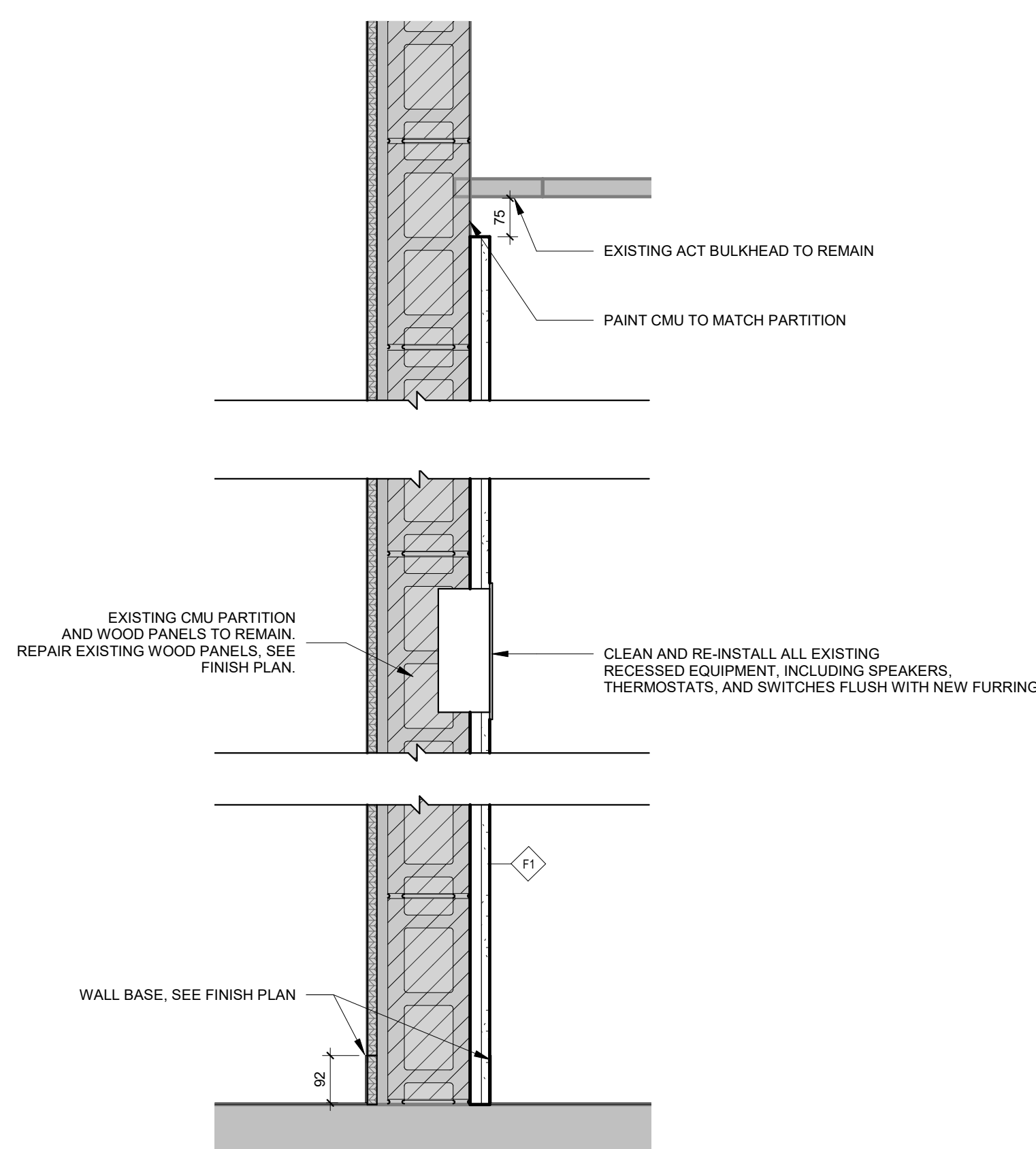
10 Floor Transition TH2  
1:1



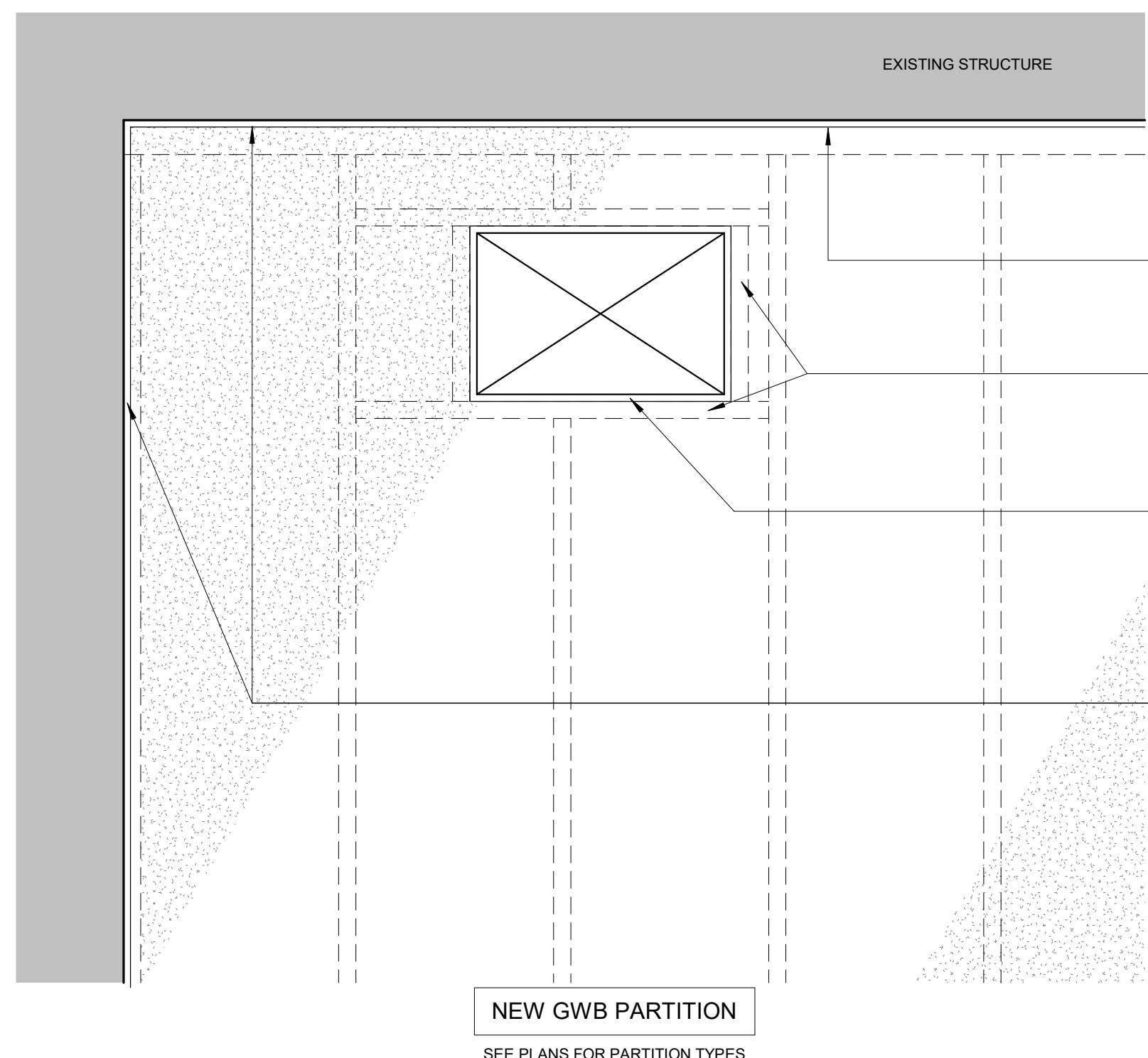
9 Floor Transition TH1  
1:1



8 Section Detail - GIS Lab Partition Header  
1:10



14 Typical Section Detail at Existing CMU Walls  
1:10



13 Elevation - Duct Penetration in GWB  
1:10

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4	20240927	ISSUED FOR TENDER
3	20240816	ISSUED FOR BUILDING PERMIT
2	20240806	ISSUED FOR 100% CD
1	20240429	ISSUED FOR 80% CD COSTING

No.	Date	Issue/Revision

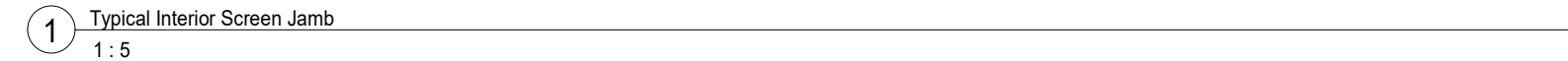
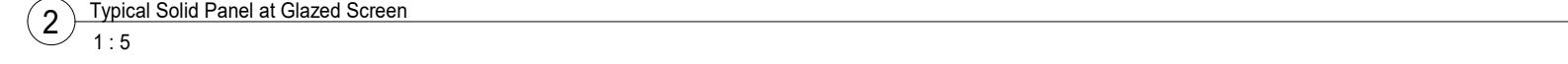
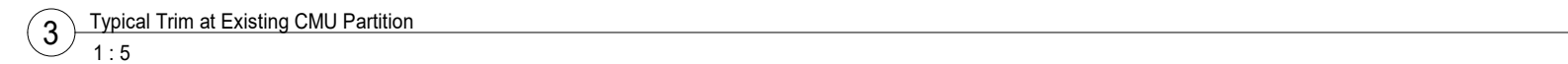
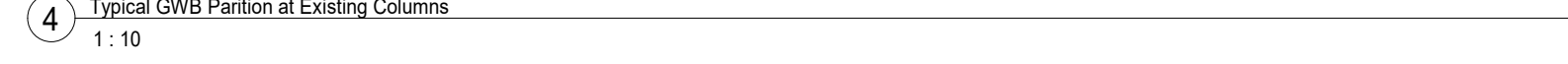
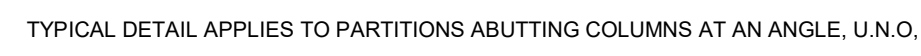
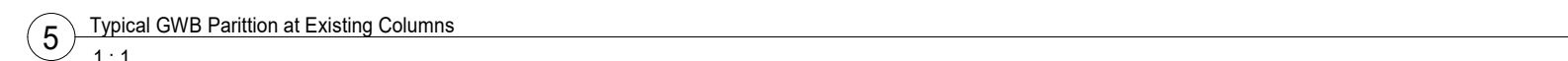
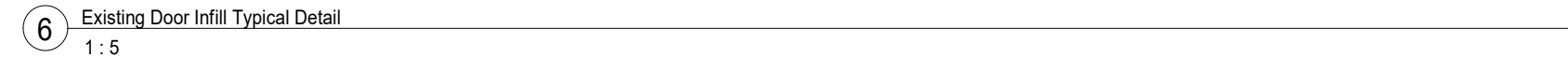
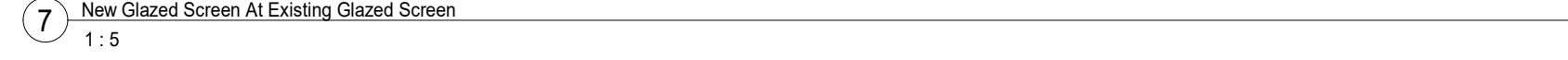
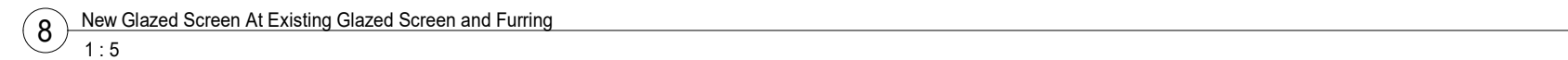
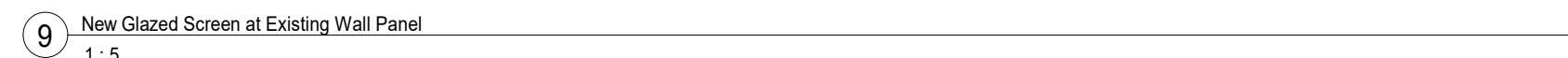
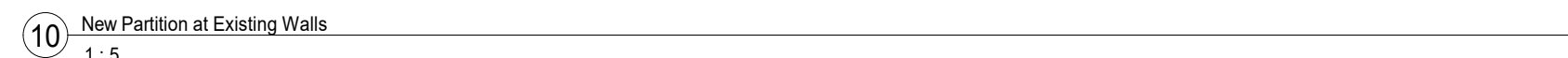
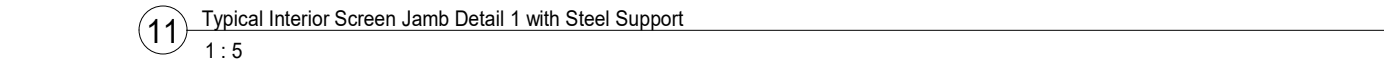
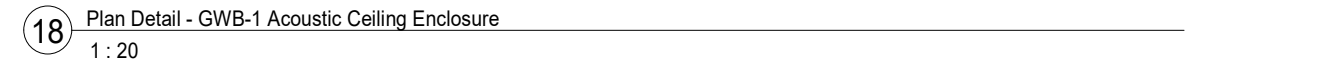
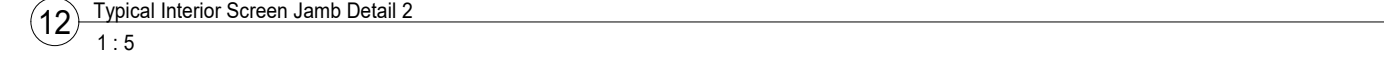
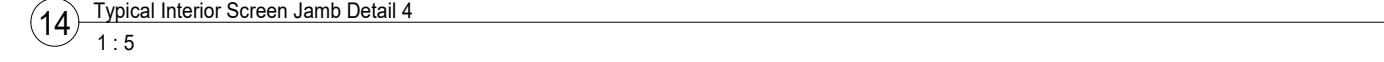
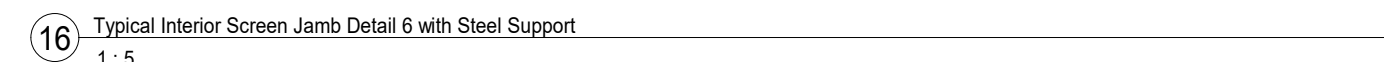
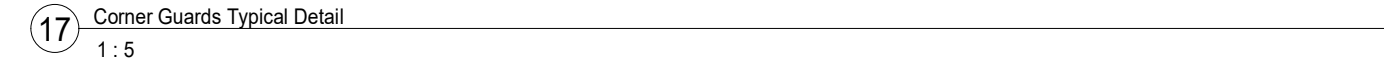
Robarts 5th Floor  
Renovation

Title:  
Section Details

Project No. 2322 Scale As indicated  
Drawing No.

A 850





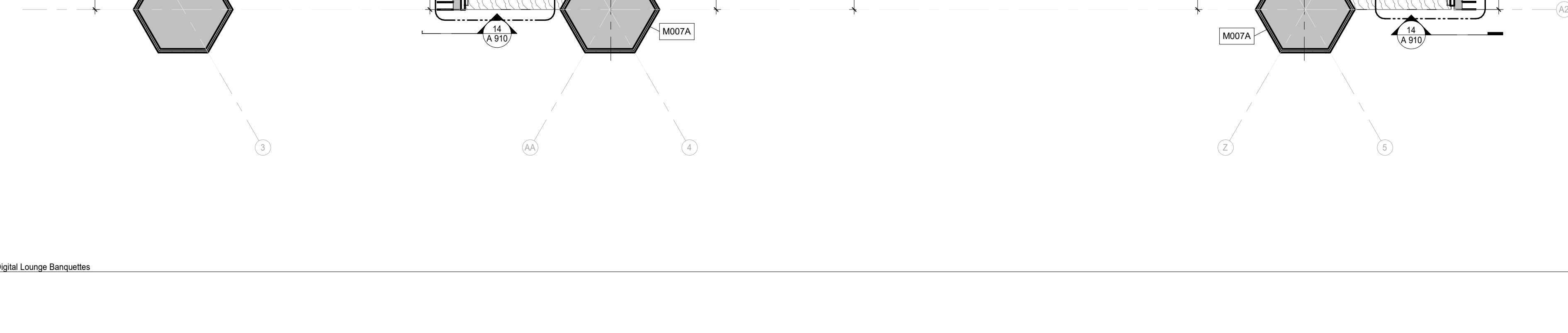
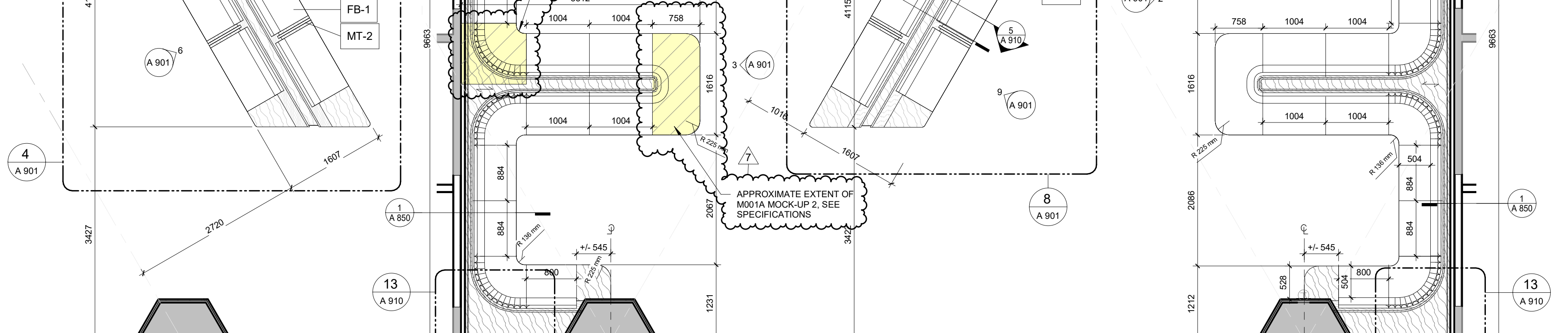
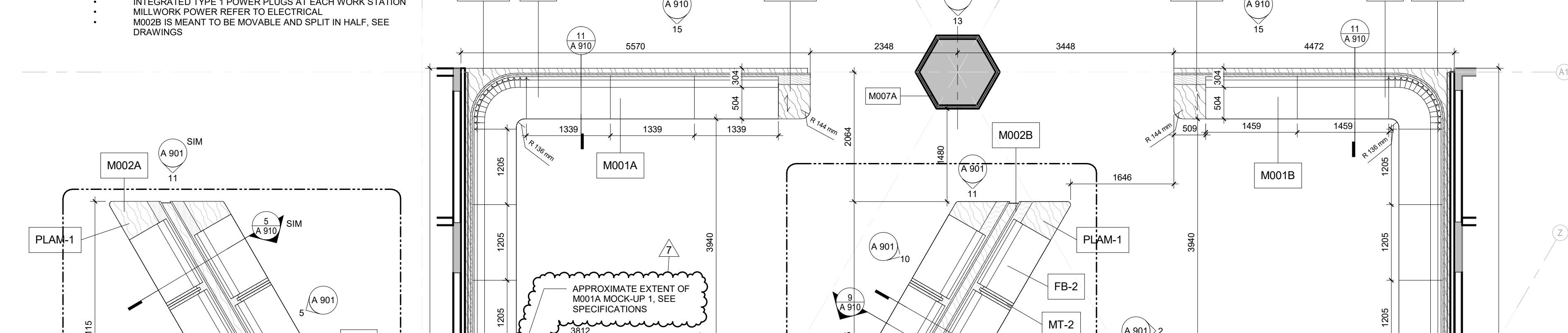
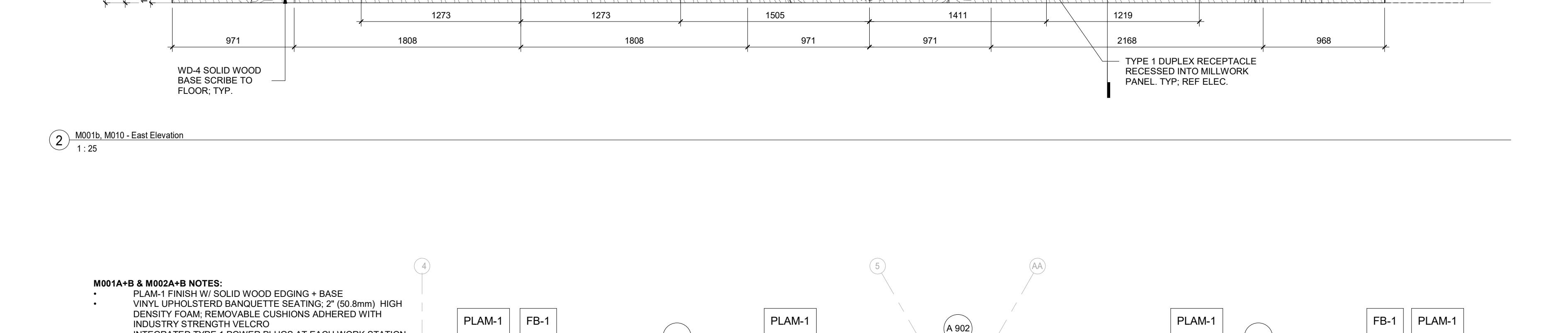
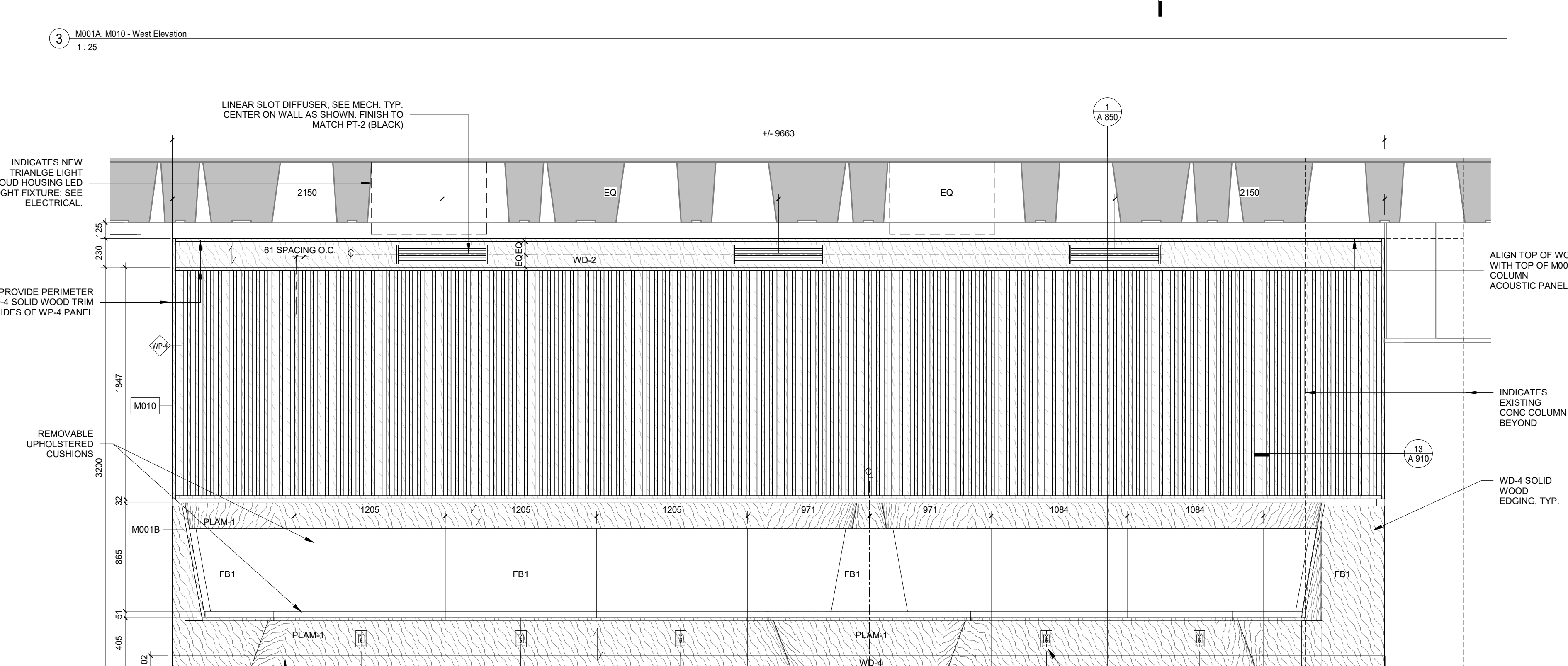
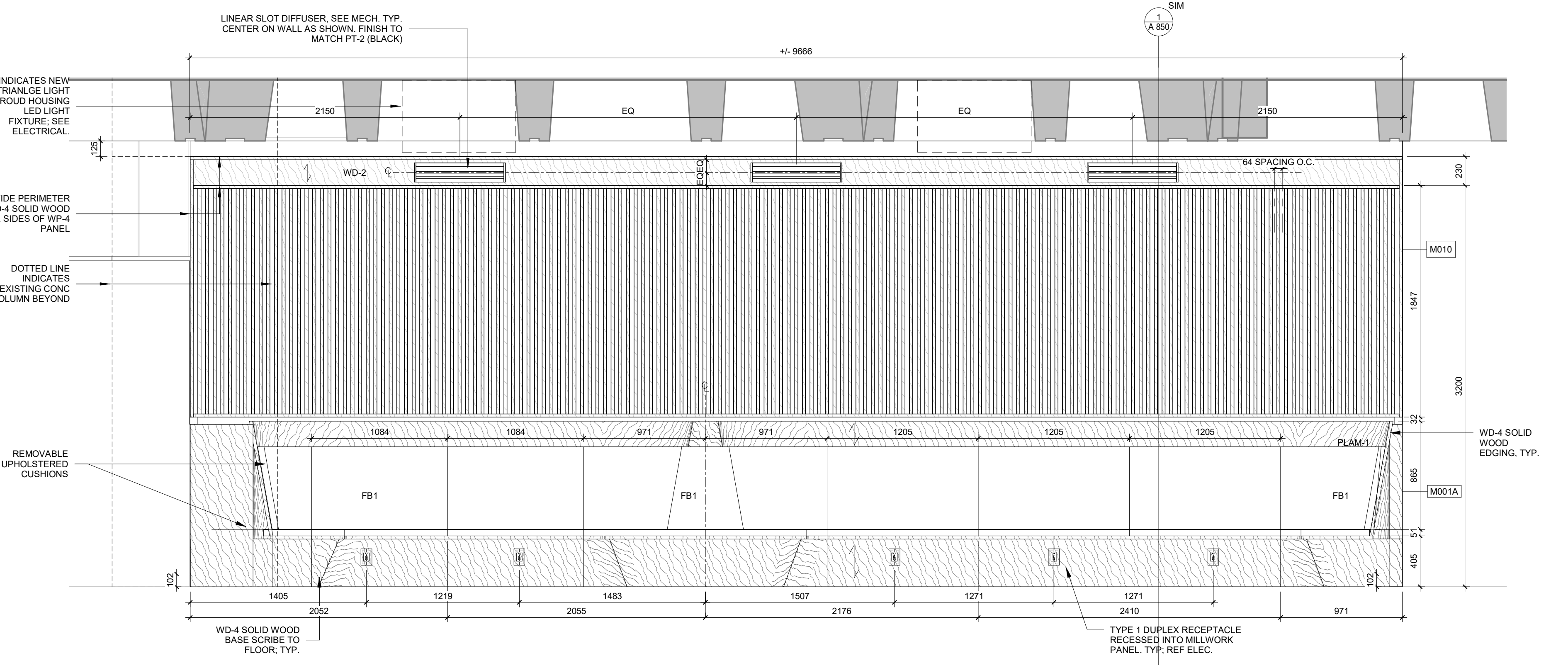
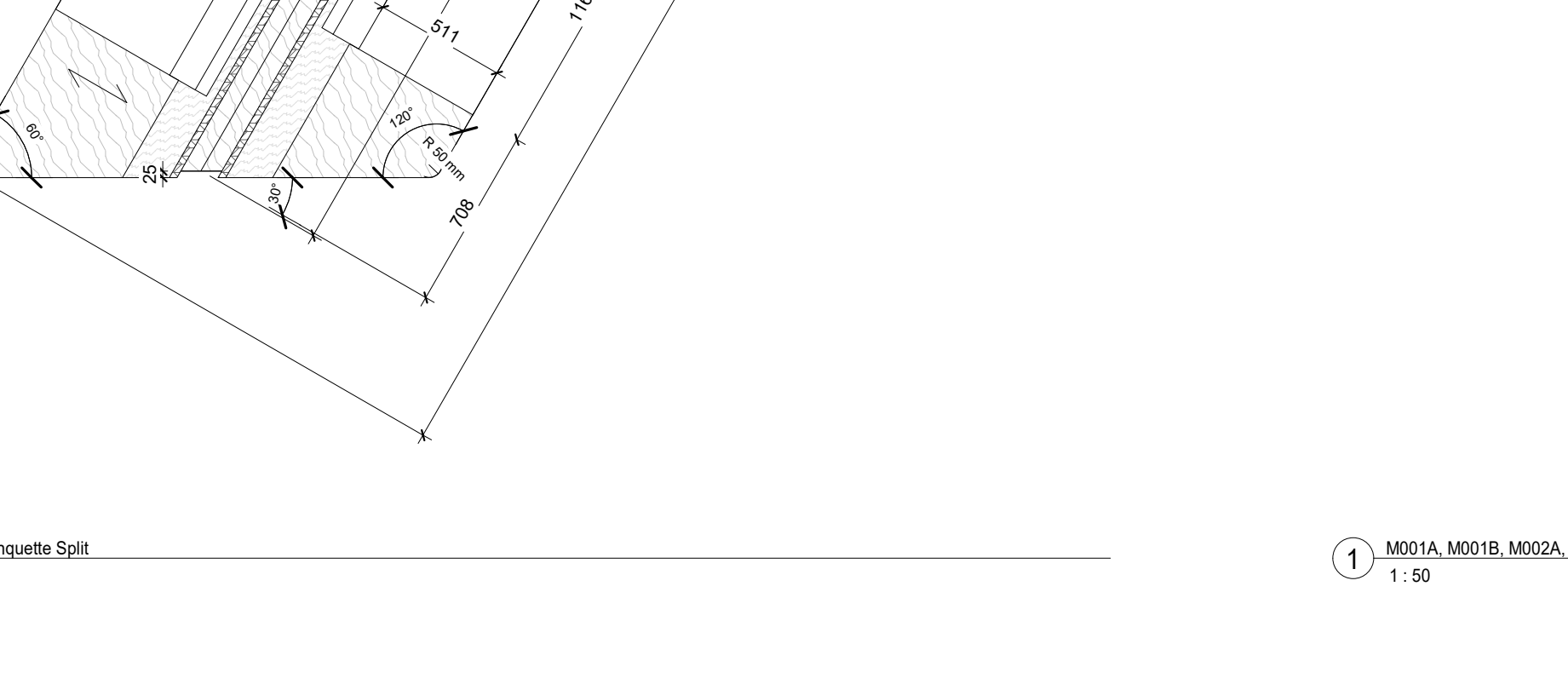
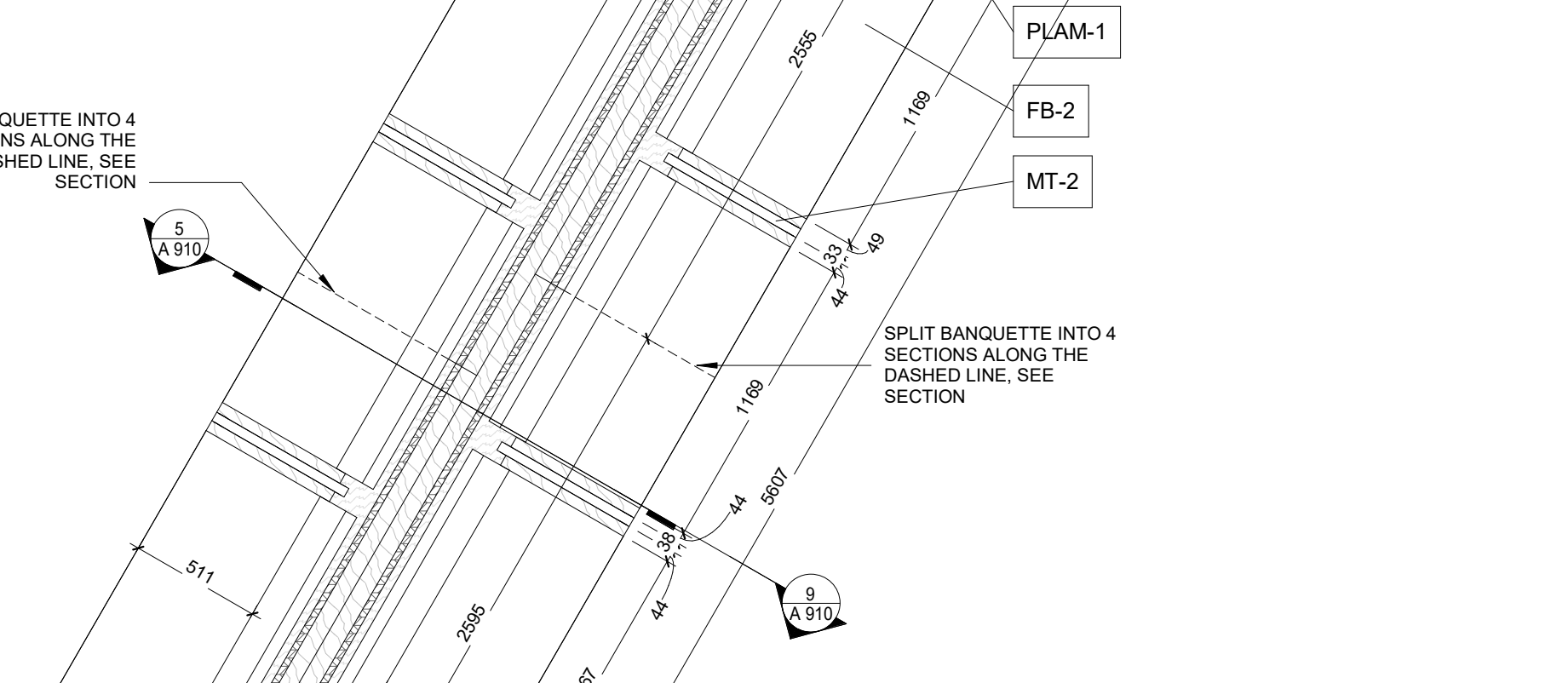
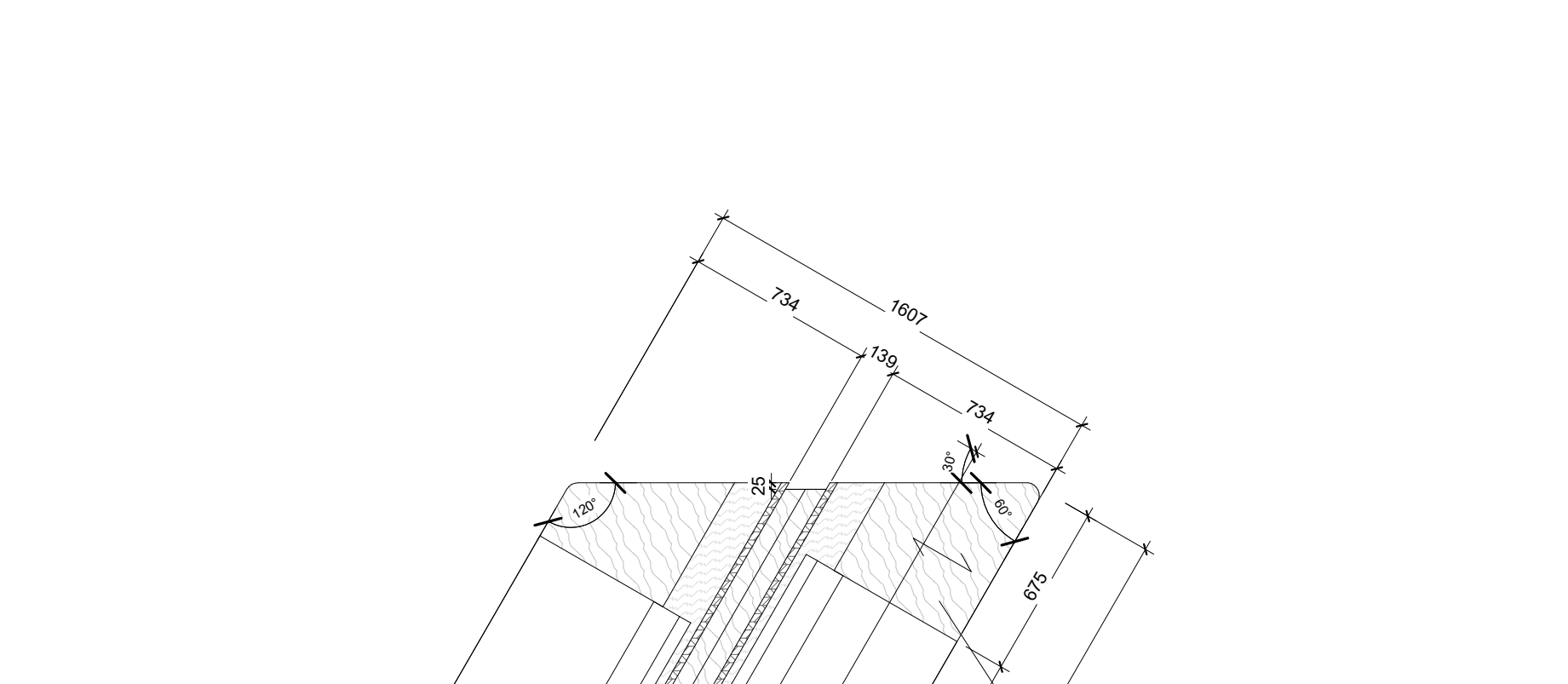
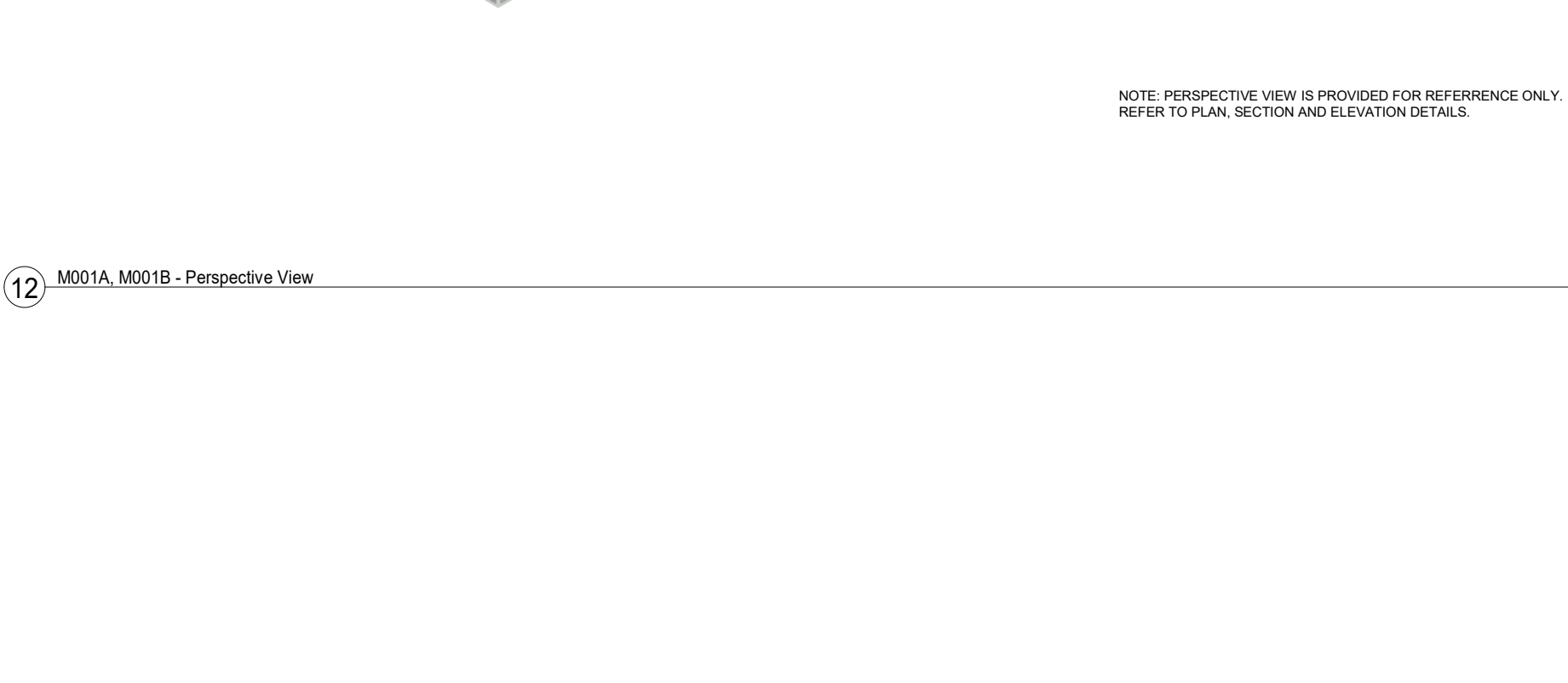
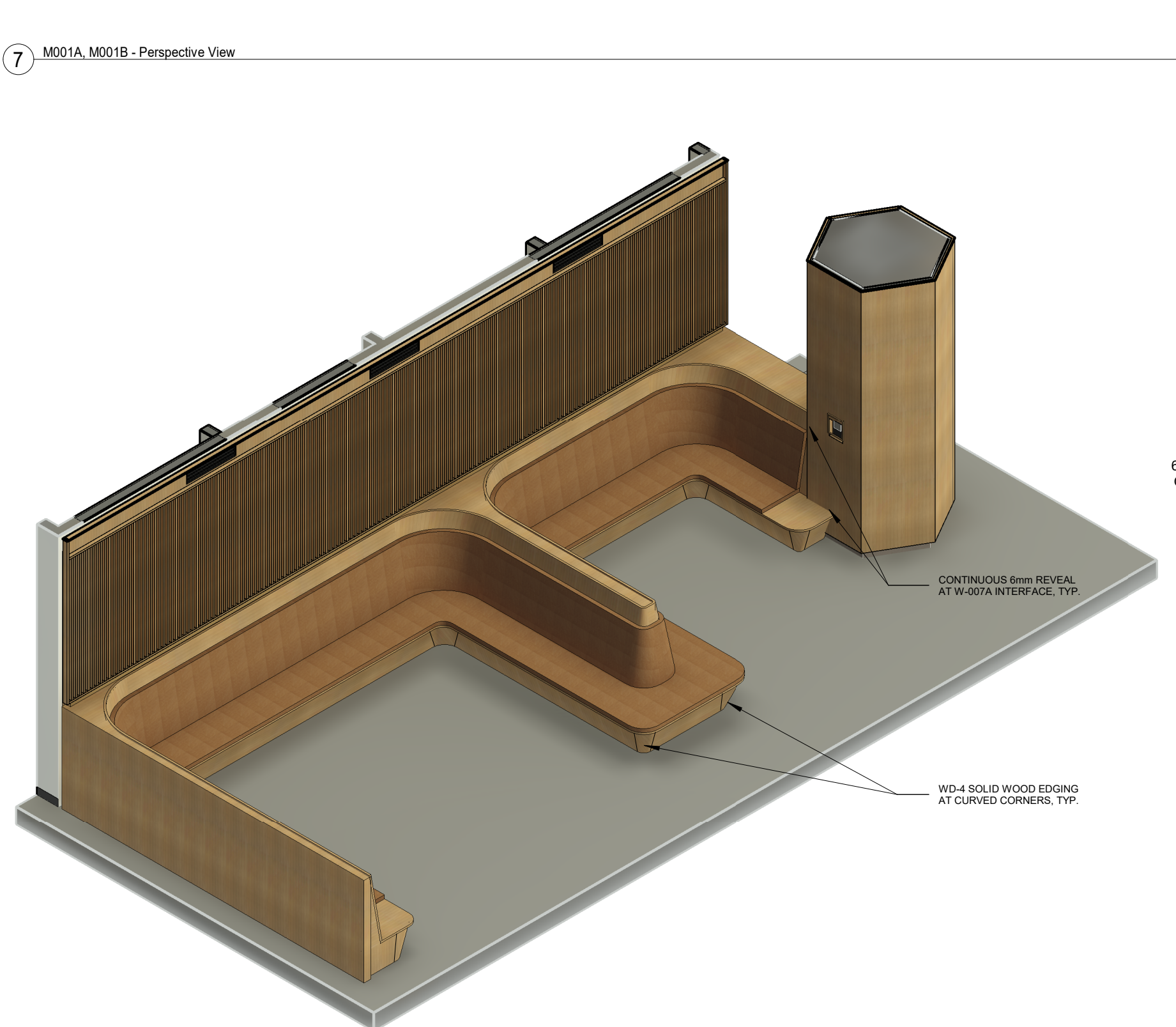
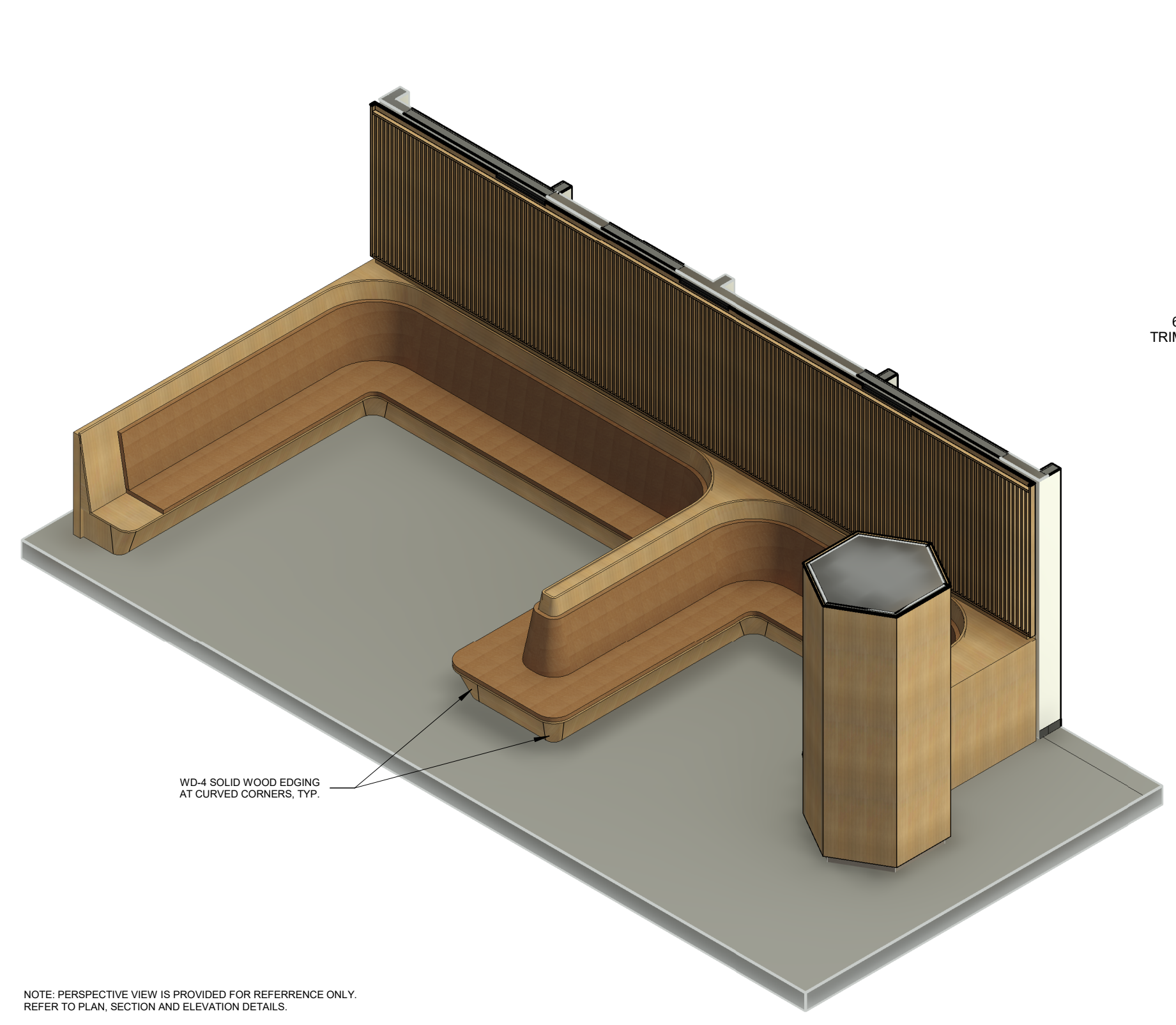
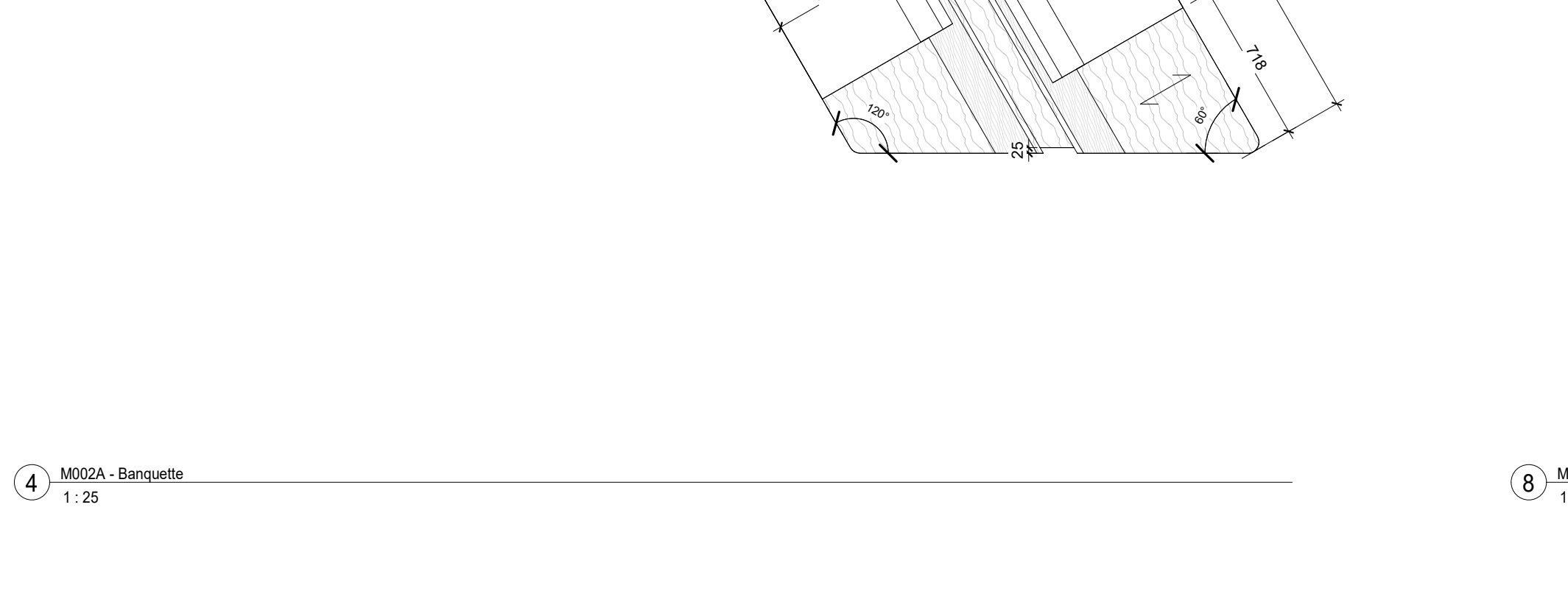
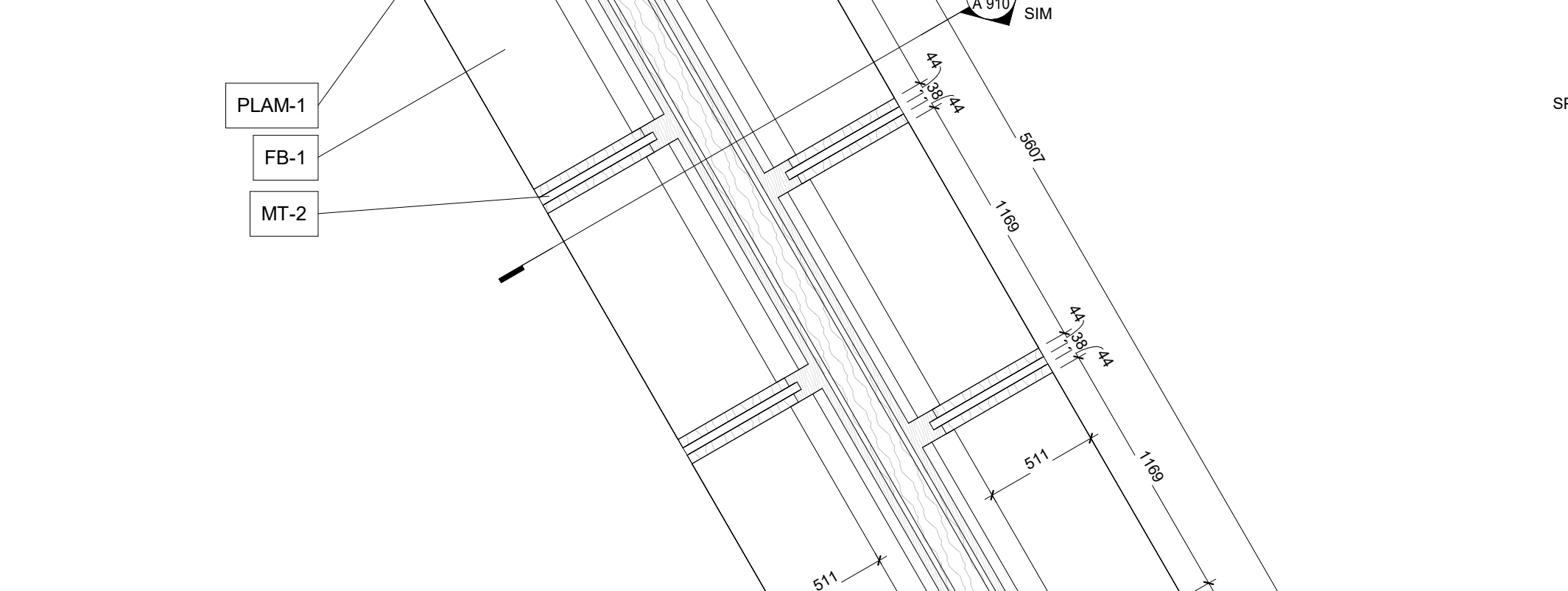
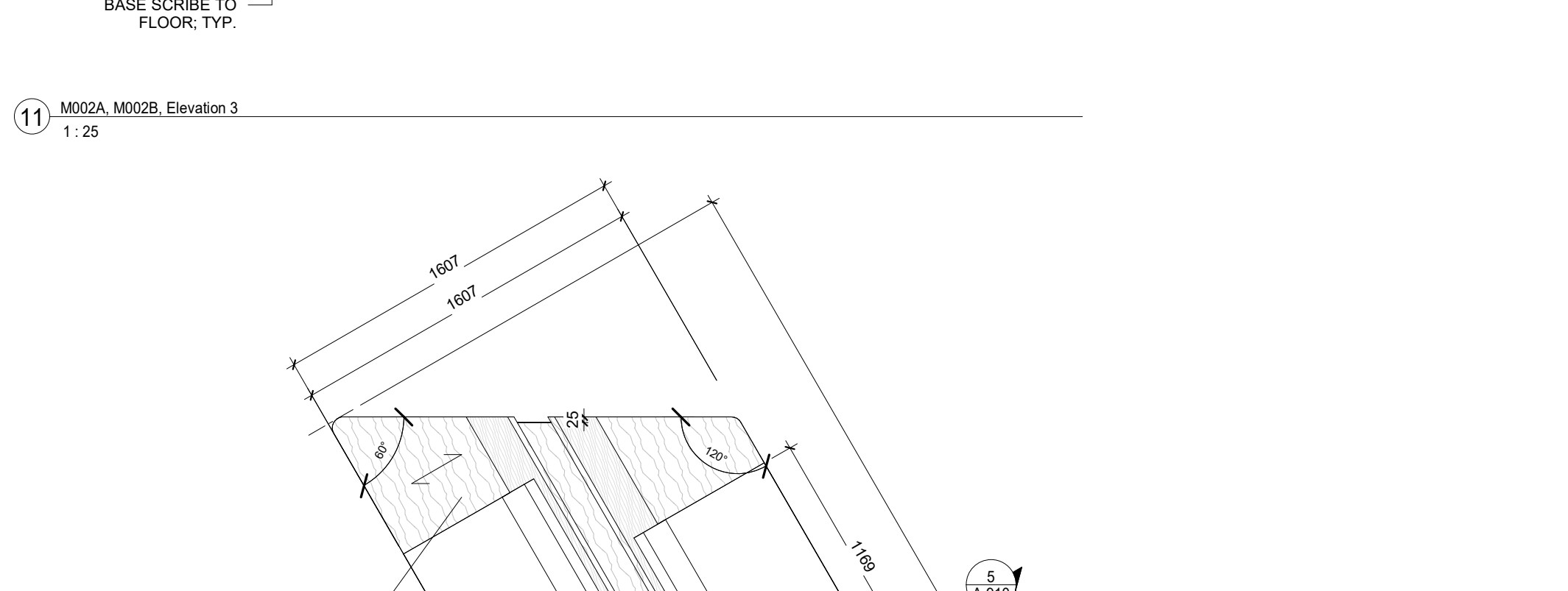
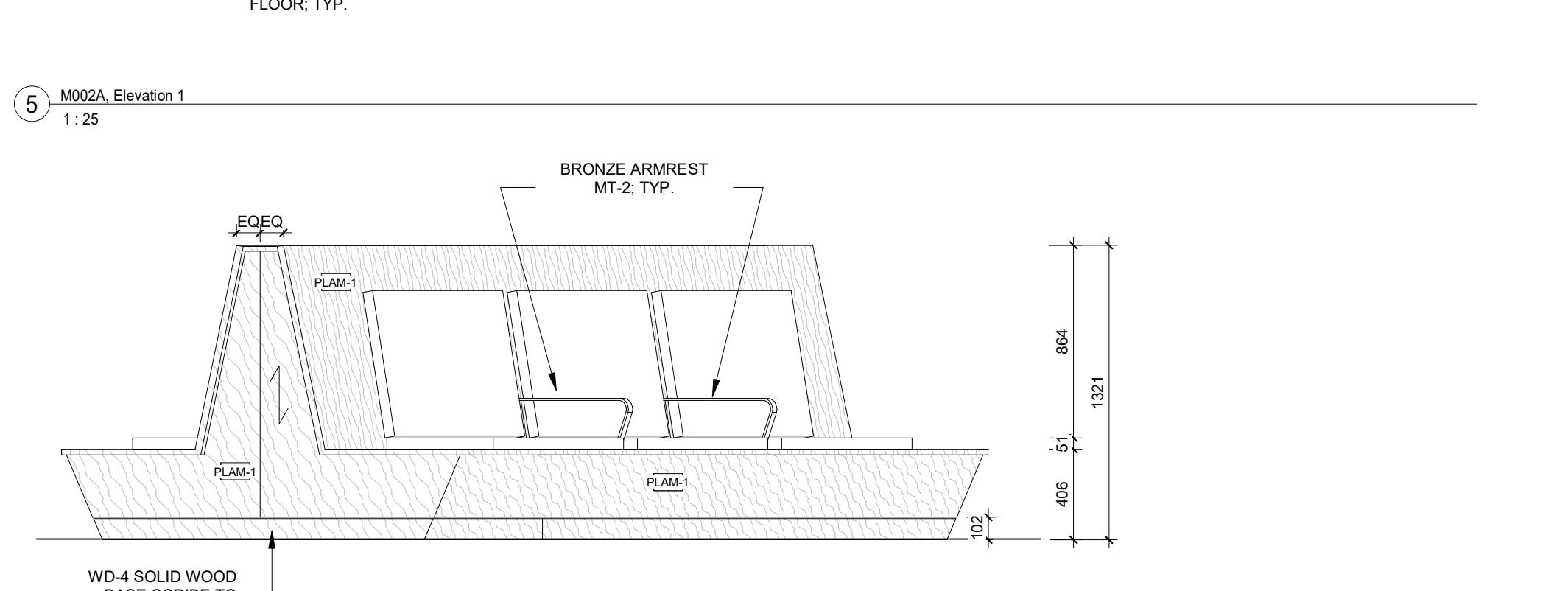
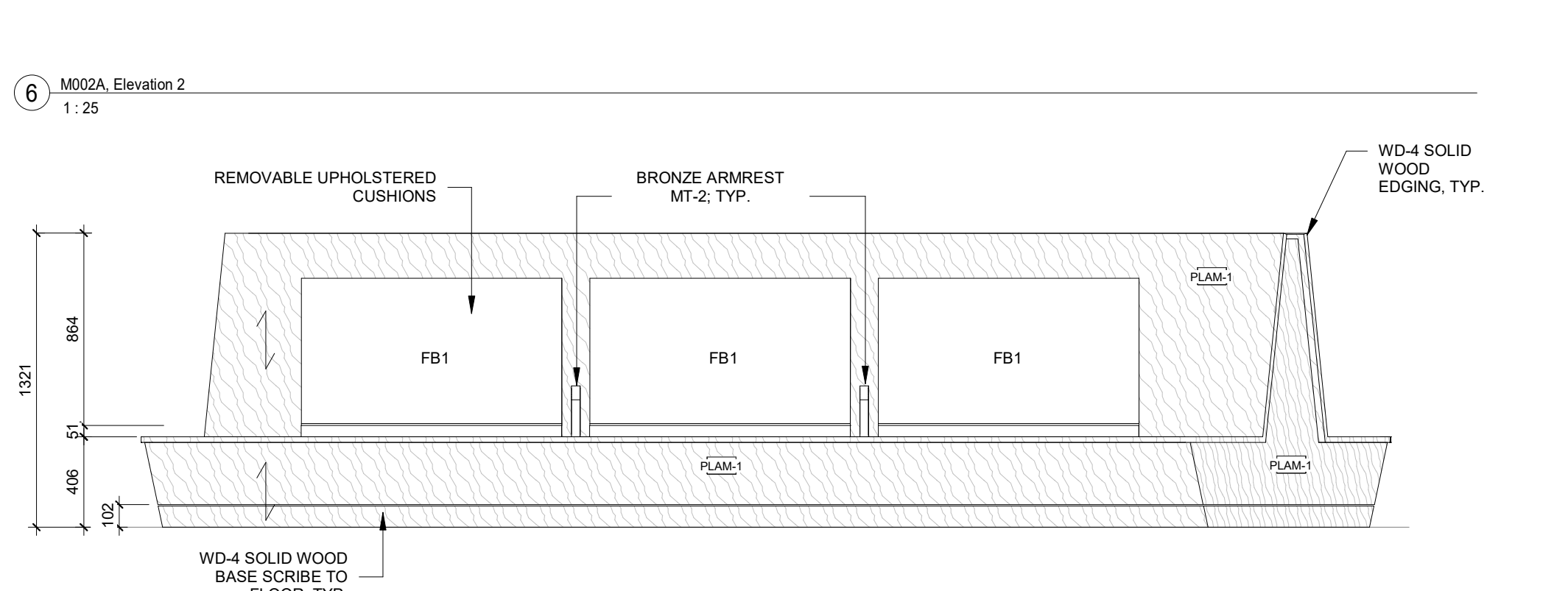
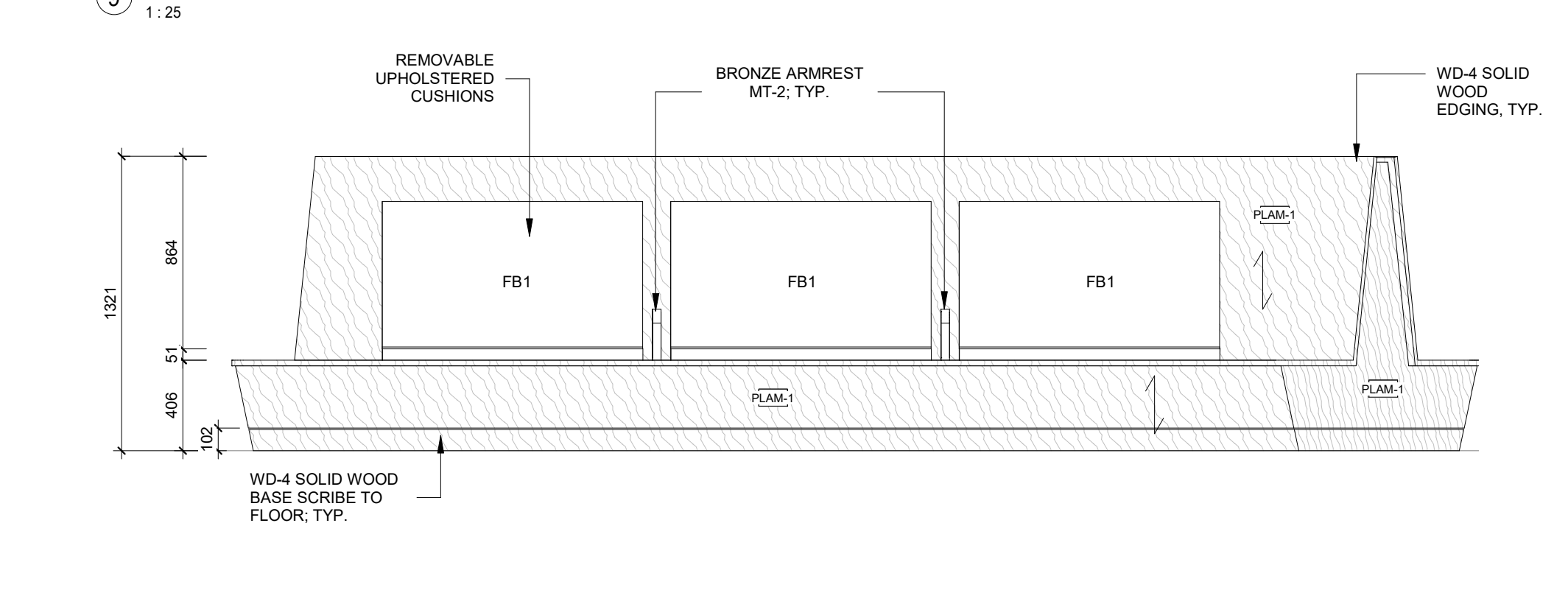
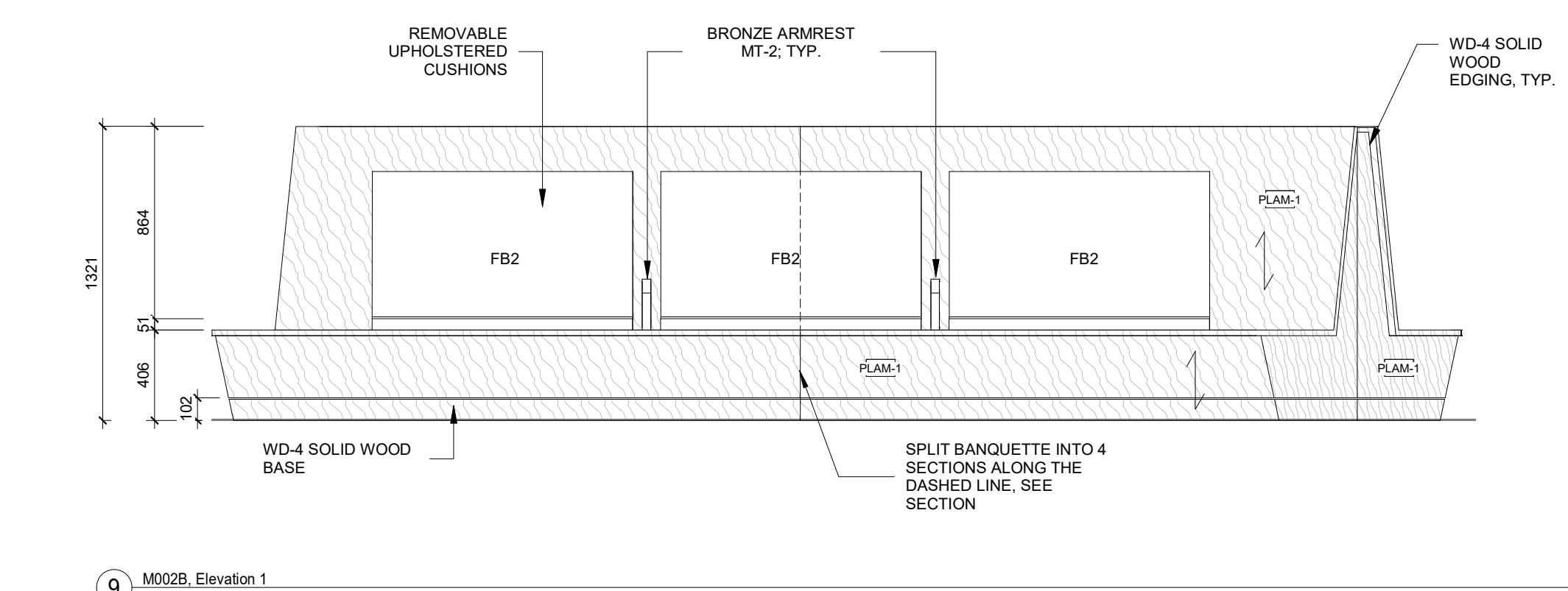
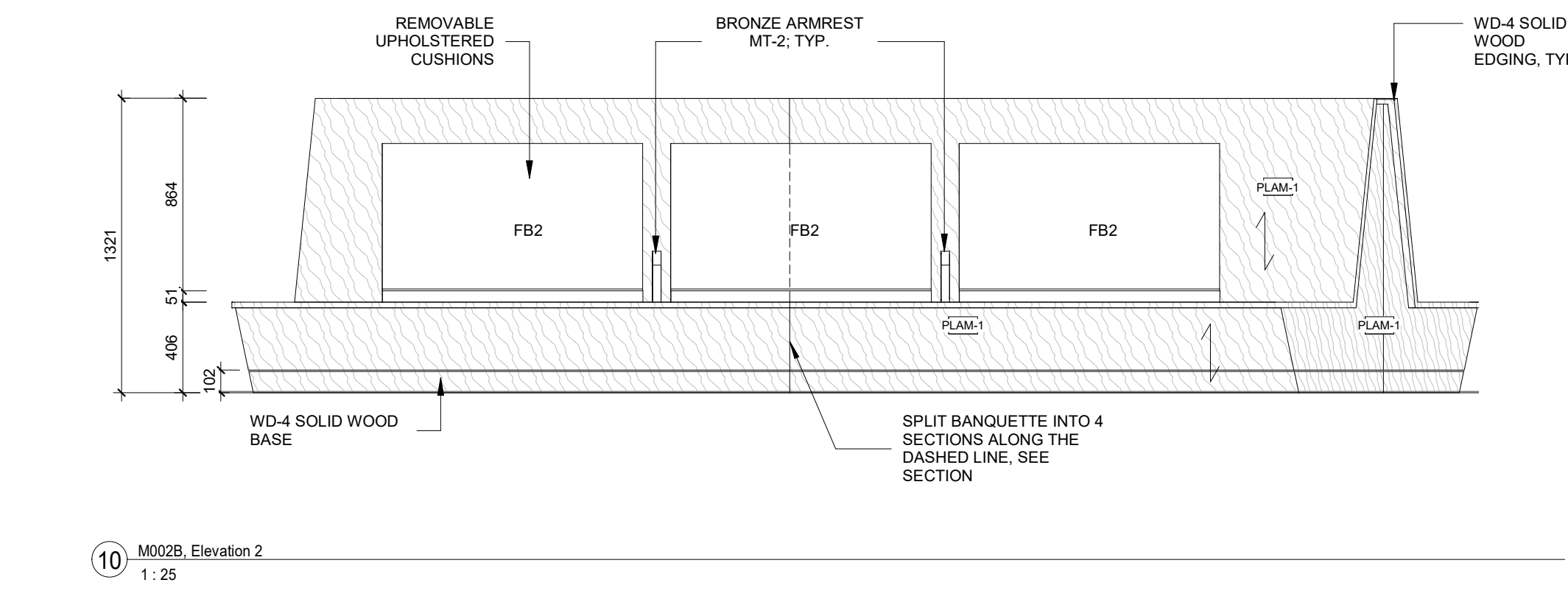
No.	Date	Issue/Revision

Title: Plan Details

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2	20231213	ISSUED FOR DD CLIENT REVIEW
1	20231122	ISSUED FOR DD COSTING & REVIEW

Robarts 5th Floor  
Renovation

Title:  
Millwork Drawings -  
M001A+B, M002A+B,  
M010

Project No. 2322 Scale As indicated  
Drawing No.

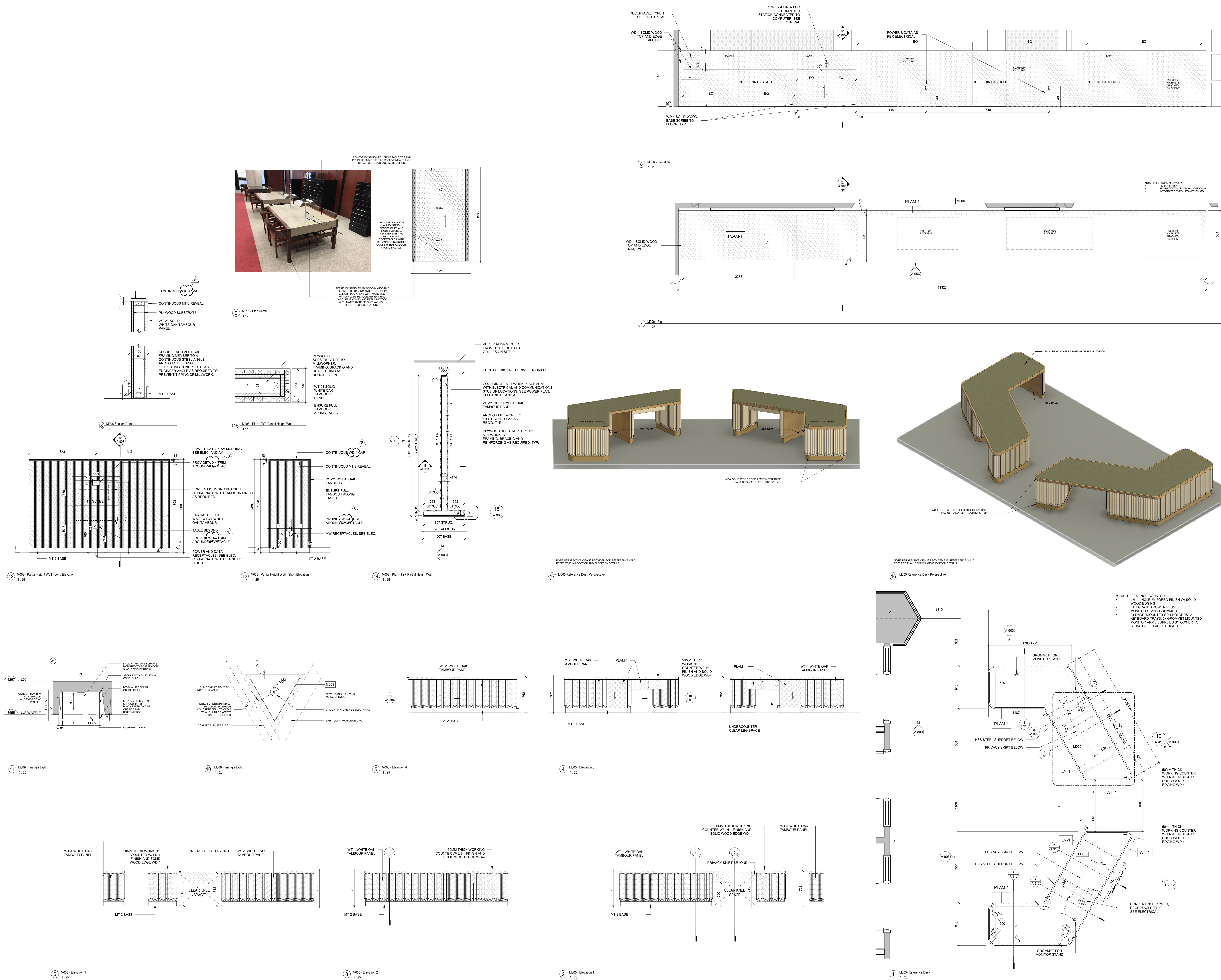
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Title: Millwork Drawings - M005, M006, M008, M009, M011

# A 903





## Pneumatic Wireless Thermostats

Designation _____ Qty _____ Part Number _____ Description _____		
Field Device:	044	WPT-040-T24D-C Express Thermostat
	113	WPT-040-R24A-LIB Express Repeater
	16	CRC-000-001 Green Box
	16	WPT-000-K20R WPT Cable Kit

The diagram illustrates a pneumatic wireless thermostat system. It features two identical sections, each containing a REPEATER connected via AIR LINE to a T STAT unit. The T STAT unit is further connected via AIR LINE to an HTG-VLV valve, which is controlled by a pressure switch symbol. Radiating lines around the repeaters indicate their wireless communication range.

FLOOR	# OF TSTAT	# OF DDC TSTAT	# OF REPEATERS	# BACNET ROUTER
14	11	0	11	1
13	18	0	6	1
12	17	0	6	1
11	17	0	6	1
10	17	0	6	1
9	20	0	8	1
8	23	0	9	1
7	16	0	7	1
6	20	0	7	1
5	13	0	6	1
4	18	14	6	1
3	13	0	6	1
2	22	0	7	1
1	10	0	9	1
B1	9	0	4	1
B2	8	0	6	1
TOTAL	254	14	110	16

**4.21 SPACE THERMOSTATS – MAIN LIBRARY**  
 4.21.1 Space temperature will be replaced with new wireless to pneumatic local thermostats and will control re-heat coils valves as before. Wireless communication signals will be done through the Express "green box" to adjust setpoint, read current temperature and pneumatic position. Refer to points list for more detail.

Doing Title  
**RTT Wireless Pneumatic Thermostats**

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Project Title  
**U of T Robarts Library**

Version	Date	Description	By	Check By
0000	7	Initial		
0000	1	Issued for Submittal		

Revised To	Revised From	Reason for Change	By	Check By
0000	0000	Initial		

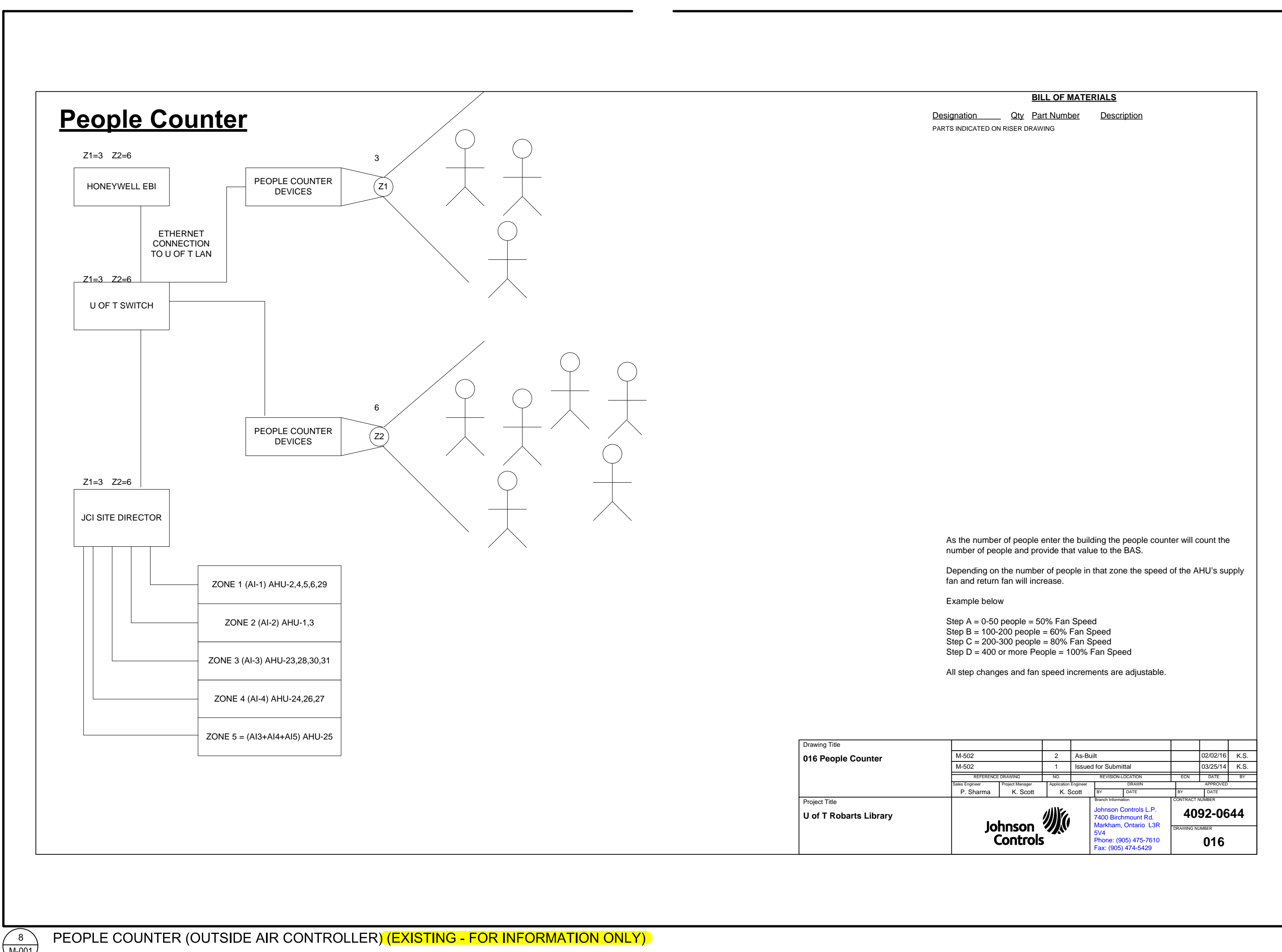
  

Project Title	Client	Contract No.	Drawn By	Checked By
U of T Robarts Library	Johannes Controls Ltd. 1400 Burnham Rd. Scarborough, Ontario M1V 5K6 Phone: (416) 491-2641 Fax: (416) 491-0420			

**4092-0644**

**017**

7 WIRELESS THERMOSTATS (EXISTING - FOR INFORMATION ONLY)



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Box Location				Required
				JCI Code
Bldg./Ftr.	Name	System Name	Mesh	NC/NAD
Floor	006_5010_CYP-WP12	WIRELESS PN TSTAT	M110-M111	4
Floor	006_5008_CYP-WP12	WIRELESS PN TSTAT	M110-M111	4
Floor	006_5008_CYP-WP15	WIRELESS PN TSTAT	M110-M111	4
Floor	006_5008_CYP-WP16	WIRELESS PN TSTAT	M110-M111	4
Floor	006_5040_CYP-WP17	WIRELESS PN TSTAT	M110-M111	4
Floor	006_5040_CYP-WP18	WIRELESS PN TSTAT	M110-M111	4
Floor	006_5052_CYP-WP18	WIRELESS PN TSTAT	M110-M111	4
Floor	006_5052_CYP-WP18	WIRELESS PN TSTAT	M110-M111	4
Floor	006_5052_CYP-WP11	WIRELESS PN TSTAT	M110-M111	4
Floor	006_5062_CYP-WP12	WIRELESS PN TSTAT	M110-M111	4
Floor	006_5090K_CYP-WP13	WIRELESS PN TSTAT	M110-M111	4
Floor	006_5090K_CYP-WP13	WIRELESS PN TSTAT	M110-M111	4

Room Schedule					
Box Location					Required
Bldg./Flr.	Name	System Name	Mech. Dwg. No.	JCI Cnt Dwg No.	N/C/ NAE Addr
Fifth Floor	006_5010_CVP_WPT2	WIRELESS PN TSTAT	M110/M111	18	4
Fifth Floor	006_5038_CVP_WPT3	WIRELESS PN TSTAT	M110/M111	18	4
Fifth Floor	006_5038_CVP_WPT5	WIRELESS PN TSTAT	M110/M111	18	4
Fifth Floor	006_5038_CVP_WPT6	WIRELESS PN TSTAT	M110/M111	18	4
Fifth Floor	006_5040_CVP_WPT7	WIRELESS PN TSTAT	M110/M111	18	4
Fifth Floor	006_5040_CVP_WPT8	WIRELESS PN TSTAT	M110/M111	18	4
Fifth Floor	006_5052_CVP_WPT9	WIRELESS PN TSTAT	M110/M111	18	4
Fifth Floor	006_5052_CVP_WPT10	WIRELESS PN TSTAT	M110/M111	18	4
Fifth Floor	006_5052_CVP_WPT11	WIRELESS PN TSTAT	M110/M111	18	4
Fifth Floor	006_5052_CVP_WPT12	WIRELESS PN TSTAT	M110/M111	18	4
Fifth Floor	006_5010K_CVP_WPT13	WIRELESS PN TSTAT	M110/M111	18	4
Fifth Floor	006_5057_CVP_WPT14	WIRELESS PN TSTAT	M110/M111	18	4

# AHU-1.3.4.5.7.23.24.25.26.27.28.30.31 Flow Drawing & Sequence

## AHU-1.3.4.5.7.23.24.25.26.27.28.30.31 Flow Drawing & Sequence

The flow drawing illustrates the air handling process for AHU-1.3.4.5.7.23.24.25.26.27.28.30.31. It shows the supply air path (RA) and return air path (EA) with various dampers (RA-D, EA-D, RA-T, EA-T) and control points (RA-O, EA-O). The drawing also indicates the location of the AHU and the associated ductwork.

### 4.3.3.1 This mode is initiated by loss of supply or return fan status or by time schedule from BAS.

### 4.3.3.2 Outdoor air and exhaust dampers are closed, recirculation air damper is open. Supply and return fans are off.

### 4.3.3.3 Start-up:

### 4.3.3.4 Start-up is initiated by time schedule from the BAS.

### 4.3.3.5 Outdoor air and exhaust dampers open to prevent minimum position. Supply and return fans start.

### 4.3.3.6 Modulate the outdoor air and exhaust dampers between great minimum and supply air positions, and the recirculation air damper to closed position based on comparison of indoor air and outdoor air temperature and of supply air temperature set point (air-side free cooling).

### 4.3.3.7 When the supply air temperature is above set point and the outdoor air demand is in great extension position, the cooling coil water shall be enabled and modulated to maintain set point.

### Safety Shutdown Relay Coil Wiring Detail

The wiring detail shows the connection of the safety shutdown relay coil to the 24 VDC power source. It includes the connection points for the relay coil, the 24 VDC supply, and the safety shutdown relay.

**For Wiring of Safety Shutdown Relay Coil:**  
 1. Connect the relay coil to the 24 VDC supply.  
 2. Connect the relay coil to the safety shutdown relay.

### BILL OF MATERIALS

Designation	Qty./31	Part Number	Description
Fan/Driver:	1	TE-400R	AIR HANDLING ELEMENT HOLDER
RA-D	1	TE-400R-1	RAHNDL DUCT AIRWAY IN FLEET
EA-D	1	TE-400R-1	EAHNDL DUCT AIRWAY IN FLEET
RA-T	1	TE-400R-1	RAHNDL DUCT AIRWAY IN FLEET
EA-T	1	TE-400R-1	EAHNDL DUCT AIRWAY IN FLEET
RA-O	1	TE-400R-1	RAHNDL DUCT AIRWAY IN FLEET
EA-O	1	TE-400R-1	EAHNDL DUCT AIRWAY IN FLEET
RA-T	1	TE-400R-1	RAHNDL DUCT AIRWAY IN FLEET
EA-T	1	TE-400R-1	EAHNDL DUCT AIRWAY IN FLEET
RA-O	1	TE-400R-1	RAHNDL DUCT AIRWAY IN FLEET
EA-O	1	TE-400R-1	EAHNDL DUCT AIRWAY IN FLEET
RA-T	1	TE-400R-1	RAHNDL DUCT AIRWAY IN FLEET
EA-T	1	TE-400R-1	EAHNDL DUCT AIRWAY IN FLEET
RA-O	1	TE-400R-1	RAHNDL DUCT AIRWAY IN FLEET
EA-O	1	TE-400R-1	EAHNDL DUCT AIRWAY IN FLEET
RA-T	1	TE-400R-1	RAHNDL DUCT AIRWAY IN FLEET
EA-T	1	TE-400R-1	EAHNDL DUCT AIRWAY IN FLEET
RA-O	1	TE-400R-1	RAHNDL DUCT AIRWAY IN FLEET
EA-O	1	TE-400R-1	EAHNDL DUCT AIRWAY IN FLEET
RA-T	1	TE-400R-1	RAHNDL DUCT AIRWAY IN FLEET
EA-T	1	TE-400R-1	EAHNDL DUCT AIRWAY IN FLEET
RA-O	1	TE-400R-1	RAHNDL DUCT AIRWAY IN FLEET
EA-O	1	TE-400R-1	EAHNDL DUCT AIRWAY IN FLEET
RA-T	1	TE-400R-1	RAHNDL DUCT AIRWAY IN FLEET
EA-T	1	TE-400R-1	EAHNDL DUCT AIRWAY IN FLEET
RA-O	1	TE-400R-1	RAHNDL DUCT AIRWAY IN FLEET
EA-O	1	TE-400R-1	EAHNDL DUCT AIRWAY IN FLEET
RA-T	1	TE-400R-1	RAHNDL DUCT AIRWAY IN FLEET
EA-T	1	TE-400R-1	EAHNDL DUCT AIRWAY IN FLEET
RA-O	1	TE-400R-1	RAHNDL DUCT AIRWAY IN FLEET
EA-O	1	TE-400R-1	EAHNDL DUCT AIRWAY IN FLEET
RA-T	1	TE-400R-1	RAHNDL DUCT AIRWAY IN FLEET
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EA-T	1	TE-400R-1	EAHNDL DUCT AIRWAY IN FLEET
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EA-O	1	TE-400R-1	EAHNDL DUCT AIRWAY IN FLEET
RA-T	1	TE-400R-1	RAHNDL DUCT AIRWAY IN FLEET
EA-T	1	TE-400R-1	EAHNDL DUCT AIRWAY IN FLEET
RA-O	1	TE-400R-1	RAHNDL DUCT AIRWAY IN FLEET
EA-O	1	TE-400R-1	EAHNDL DUCT AIRWAY IN FLEET
RA-T	1	TE-400R-1	RAHNDL DUCT AIRWAY IN FLEET
EA-T	1	TE-400R-1	EAHNDL DUCT AIRWAY IN FLEET
RA-O	1	TE-400R-1	RAHNDL DUCT AIRWAY IN FLEET
EA-O	1	TE-400R-1	EAHNDL DUCT AIRWAY IN FLEET
RA-T	1	TE-400R-1	RAHNDL DUCT AIRWAY IN FLEET
EA-T	1	TE-400R-1	EAHNDL DUCT AIRWAY IN FLEET
RA-O	1	TE-400R-1	RAHNDL DUCT AIRWAY IN FLEET
EA-O	1	TE-400R-1	EAHNDL DUCT AIRWAY IN FLEET
RA-T	1	TE-400R-1	RAHNDL DUCT AIRWAY IN FLEET
EA-T	1	TE-400R-1	EAHNDL DUCT AIRWAY IN FLEET
RA-O	1	TE-400R-1	RAHNDL DUCT AIRWAY IN FLEET
EA-O	1	TE-400R-1	EAHNDL DUCT AIRWAY IN FLEET
RA-T	1	TE-400R-1	RAHNDL DUCT AIRWAY IN FLEET
EA-T	1		

4  
14-001

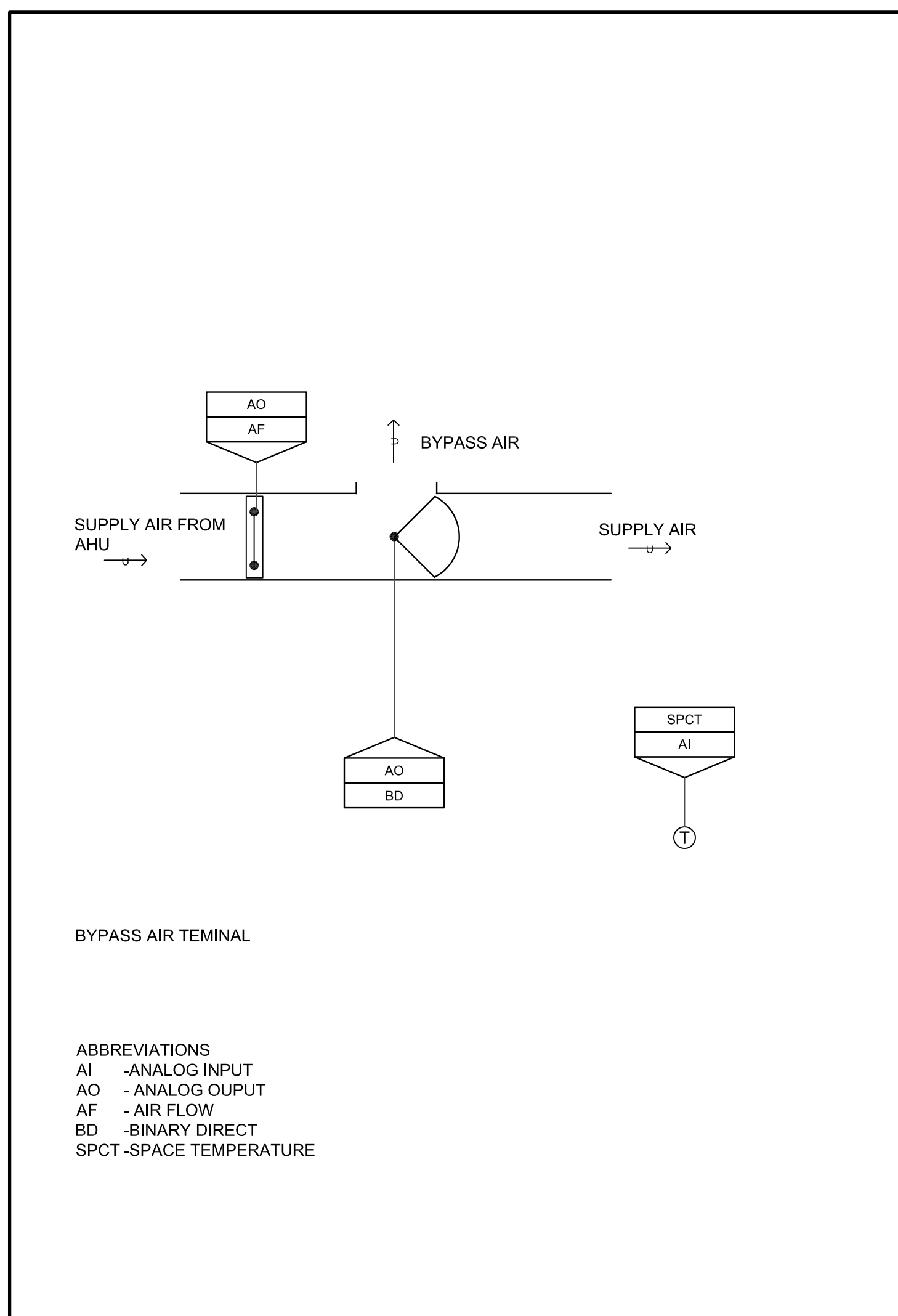
AIR HANDLING UNITS (EXISTING - FOR INFORMATION ONLY)

[illegible]

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[illegible]

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1  
M-001 BY PASS VAV TERMINAL

BAS GRAPHICS SHALL SHOW THE FOLLOWING:

- SPACE TEMPERATURE SET POINT
- SPACE TEMPERATURE PRESENT TEMPERATURE
- DAMPER COMMAND
- DAMPER FEED BACK
- HIGH SPACE TEMPERATURE ALARM
- LOW SPACE TEMPERATURE ALARM
- UPS OPERATING ON BATTERY ALARM
- UPS LOW BATTERY ALARMS

REFER TO NOTE # 2

REFER TO NOTE # 4

REFER TO NOTE # 1

REFER TO NOTE # 3

5TH FLOOR UTILITY ROOM # 5057A

5TH FLR

REFER TO NOTE # 5

120V UPS

BLAI  
DI

DI  
BST1

**DRAWING NOTES:**

1. PROVIDE NEW BACNET BUILDING CONTROLLER.
2. PROVIDE NEW LOCAL EQUIPMENT CONTROLLERS (QUANTITY TO BE DETERMINED BY BAS CONTRACTOR TO SUIT INSTALLATION AND SEQUENCE OF OPERATION REQUIREMENTS).
3. PROVIDE NEW BACNET MS/TP COMMUNICATIONS CABLE AND ASSOCIATED CONDUIT BETWEEN CONTROLLER AND NETWORK CONTROLLER.
4. PROVIDE NEW CAT6 CABLE AND ASSOCIATED CONDUIT FROM NETWORK CONTROLLER TO EXISTING FAS SWITCH.  
CABLE BOTH ENDS INSTALLED F&S SWITCH LOCATION. F&S TERMINATION MUST BE MODULAR FEMALE.
5. PROVIDE NEW UPS FOR NEW NETWORK CONTROLLER
6. CONTROL CONTRACTOR TO PROVIDE PHOTOGRAPHS OF INSTALLATION TO F&S IT GROUP PER U OF T F&S STANDARD.

**ISSUED FOR REFERENCE ONLY**

2  
M/03/1

5TH FLOOR BAS NET WORK CABINET SCHEMATIC

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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.


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9.	24.10.22	ISSUED FOR ADDENDUM A-02
8.	24.09.27	ISSUED FOR TENDER
7.	24.08.16	ISSUED FOR PERMIT
6.	24.08.02	ISSUED FOR 100% CD COSTING
5.	24.04.29	ISSUED FOR 80% CD COSTING
4.	23.12.08	ISSUED FOR DD REVIEW
3.	23.11.17	ISSUED FOR DD COSTING
2.	23.10.24	ISSUED FOR 100% DD
1.	23.08.30	ISSUED FOR DRAFT SD REVIEW
No. Date		Issue/Revision

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

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