

AKAAN
architecture + design llc

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ST HELENS, OR 97051
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DRAWING LIST

CIVIL DRAWINGS (AKS)

ARCHITECTURAL (AKAAN)

M/E/P DRAWINGS (MKE)STRUCTURAL DRAWINGS (PSE)

S0.0 - STRUCTURAL GENERAL NOTES
S1.0 - FOUNDATION PLAN
S1.1 - FLOOR PLAN
S2.0 - FOUNDATION DETAILS
S2.1 - STRUCTURAL DETAILS
S2.2 - STRUCTURAL DETAILS

NEW 30,000 SQ. FT. PRE-ENGINEERED MANUFACTURING RESEARCH FACILITY, WITH ADDITIONAL PARKING DRIVEWAY, AND CONNECTIONS TO PUBLIC UTILITY INFRASTRUCTURE.

SUBMITTALS:

P&C CONSTRUCTION IS THE SELECTED CONSTRUCTION MANAGER / GENERAL CONTRACTOR (CM/GC) FOR THE PROJECT. THE PROJECT IS PLANNED FOR PHASED PERMIT SUBMITTALS. THE FOLLOWING INITIAL SUBMITTALS AND DEFERRED SUBMITTALS WILL BE PROVIDED:

A/E TEAM SUBMITTALS

- INITIAL GENERAL BUILDING PERMIT AND LIFE SAFETY REVIEW SUBMITTAL

DEFERRED A/E SUBMITTALS:

- STRUCTURAL: CONCRETE FOUNDATIONS AND MISCELLANEOUS STEEL, STRUCTURAL CALCULATIONS WILL BE BASED ON STEEL BUILDING MANUFACTURER'S REACTIONS AND BASE PLATE LAYOUT.

HAZARDOUS MATERIALS PLANS FOR POWDERED METAL ROOMS

DEFERRED SUBMITTALS BY OTHERS

- STEEL BUILDING MANUFACTURER SHALL PROVIDE DRAWINGS, FINAL REACTIONS AND ENGINEERING FOR PRE-ENGINEERED BUILDING SYSTEM. (EXCLUDING EXTERIOR STUD WALL AT OFFICE WING).
- METAL STUDS: METAL STUD CONTRACTOR TO SUPPLY ENGINEERING FOR METAL STUD FRAMING SYSTEMS.
- ALUMINUM STOREFRONT SUPPLIER SHALL SUPPLY DRAWINGS AND ENGINEERING OF ALUMINUM STOREFRONT SYSTEM.
- CRANES: CRANE SUPPLIER SHALL PROVIDE DESIGN AND ENGINEERING FOR THE OVERHEAD BRIDGE CRANE AND MONORAIL TROLLEY CRANE.
- FIRE SPRINKLERS: FIRE SPRINKLER INSTALLER WILL PROVIDE DRAWINGS AND OTHER INFORMATION AS REQUIRED FOR FIRE SPRINKLER SYSTEM DESIGN BY LICENSED FIRE SPRINKLER DESIGN PROFESSIONAL.
- ALARMS: ALARM SYSTEM SUPPLIER SHALL PROVIDE DRAWINGS AND OTHER INFORMATION AS REQUIRED FOR SUBMITTAL AND PERMITTING OF THE ALARM SYSTEMS INCLUDING ADA EMERGENCY NOTIFICATION DEVICES (STROBES, ALARMS, VOICE).
- LOW-VOLTAGE: LOW VOLTAGE INSTALLER SHALL PROVIDE INFORMATION AS REQUIRED FOR LOW-VOLTAGE INSTALLATION.
- SAIL SHADE: SAIL SHADE SUPPLIER SHALL PROVIDE DRAWINGS AND SPECIFICATIONS STAMPED BY A PROFESSIONAL ENGINEER FOR REVIEW BY THE ARCHITECT AND SUBMITTAL TO PERMITTING AUTHORITY.

PROJECT TEAM

CIVIL ENGINEER:
AKS ENGINEERING & FORESTRY
12965 SW Herman Road, Suite 100
Tualatin, OR 97062
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F: 503.563.6152

STRUCTURAL ENGINEER:
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Portland, OR 97225
P. 503.292.1635

MEP ENGINEER:
MKE & Associates, Inc.
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P: 503.892.1188

OWNER:
OMIC R&D / OREGON TECH.
Procurement and Contract Services
27500 SW Parkway Avenue
Wilsonville, OR 97070

OWNER'S REPRESENTATIVE:
CRAIG CAMPBELL, Executive Director
OMIC R&D
33701 Charles T. Parker Way
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503-983-0573

OMIC R&D - Building 2
Additive Manufacturing Center
33701 Charles T. Parker Way
Scappoose, Oregon 97056

SCALE: AS NOTED
DRAWN BY: KPR
CHECKED BY: -
CAD FILE: 1404_A00.DWG
DATE: Sept 8, 2020

REVISIONS	
△	DESCRIPTION

CONTENTS:

DRAWING LIST, SYMBOLS
LOCATION MAP

SHEET NO:

CS-1

PERMIT SET

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SCALE: 3/32" = 1'-0"
DRAWN BY: AP
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CAD FILE: 1503_FLS1
DATE: Sept 8, 2029

REVISIONS		
△	DATE	DESCRIPTION

CONTENTS:

FIRE / LIFE SAFETY
FLOOR PLAN

SHEET NO:

FLS-1

PERMIT SET

SCOPE OF WORK DESCRIPTION:

NEW 30,000 SQ. FT. MANUFACTURING RESEARCH FACILITY CONSISTING OF A MAIN SHOP FLOOR, AND SUPPORTING LAB SPACES, MATERIALS STORAGE AND HANDLING SPACES, OFFICE SPACE, AND MEETING & CONFERENCE ROOMS.

OCCUPANCIES:

MAIN SHOP FLOOR - MODERATE HAZARD FACTORY - F-1
OFFICE AREAS BUSINESS OCCUPANCY - B
MEETING ROOMS ASSEMBLY OCCUPANCY - A
POWDERED METAL HANDLING & STORAGE ROOMS HAZARD H-2 PER TABLE 307.1.1

OCCUPANCY SEPARATIONS PER TABLE 508.4:

BUILDING WILL BE FULLY SPRINKLERED
F-2 SEPARATION FROM B - 1 HOUR
F-2 SEPARATION FROM A - 0 HOUR (1-HOUR PROVIDED)
B SEPARATION FROM A - 1 HOUR
H-2 SEPARATED FROM B - 2 HOUR
ELECTRICAL ROOM SEPARATION - 1 HOUR

CODE SUMMARY

BUILDING CODE & DATE			
OSCCOM STRUCTURAL SPECIALTY CODE 2019			
BUILDING USE & OCCUPANCY			
GROSS FLOOR AREA	30,000 S.F.		
OCCUPANCY(S)	SEE ABOVE		
CONSTRUCTION TYPE	II-B		
OCCUPANCY SEPARATIONS	SEE ABOVE		
GENERAL BUILDING			
ALLOWABLE HEIGHT & BUILDING AREAS			
	ALLOWED	PROPOSED	CODE PROVISION
BUILDING HEIGHT	55'	4.28'	TABLE 504.3
STORIES	3	1 (S1)	TABLE 504.4
ALLOWED AREA	92,000	30,000	TABLE 506.2
SPRINKLER INCREASE	200% OR 300%	NA	NOT USED
FRONTAGE INCREASE		NA	NOT USED
TOTAL ALLOWED	92,000	30,000	
BUILDING ELEMENTS			
CONSTRUCTION TYPE	II-B		TABLE 601
EXTERIOR BUILDING CONSTRUCTION			
EXTERIOR WALLS	> 10' FROM PROPERTY LINE NOT REQUIRED TO BE RATED		TABLE 602
EXTERIOR OPENINGS	> 30' FROM PROPERTY LINE, SIZE OF OPENINGS NOT LIMITED AND NOT REQUIRED TO BE PROTECTED		TABLE 705.8
BUILDING CONSTRUCTION FIRE RATING			
FIRE RESISTANCE RATING	REQUIRED	PROPOSED	CODE PROVISION
STRUCTURAL FRAME	NOT RATED	NOT RATED	TABLE 601
BEARING WALLS			
EXTERIOR	0	NOT RATED	TABLE 602
INTERIOR	0	0	TABLE 601
NON BEARING WALLS			
EXTERIOR	0	0	TABLE 601
INTERIOR	0	0	TABLE 601
FLOOR CONSTRUCTION	0	0	TABLE 601
ROOF CONSTRUCTION	0	0	TABLE 601
OTHER ELEMENTS			
FIRE BARRIERS/PARTY WALLS	2	SEE ABOVE	706
EXIT ENCLOSURES	1	NA	
SHAFT ENCLOSURES	1 (X 2 STORIES)	NA	709
MIXED USE AREA SEPARATION	SEE ABOVE	SEE ABOVE	
FIRE PARTITIONS	1	SEE ABOVE	
CORRIDORS	0	0	TABLE 1020.1
TENANT SEPARATION	1	NA	708
DWELLING UNIT SEPARATION	1	NA	708
SMOKE PARTITIONS	1	NA	710
ROOFS			
ROOF CONSTRUCTION	0	0	TABLE 1506.1
ATTIC DRAFT STOPS	3000 SQ.FT. MAX	NA	717.4.3
FIRE PROTECTION SYSTEMS			
AUTOMATIC SPRINKLERS	REQUIRED	PROPOSED	903
ALT. EXTINGUISHING SYS.	NOT REQUIRED	NA	904
STANDPIPE SYS.	NOT REQUIRED	NA	905
FIRE ALARM & DETECTION	REQUIRED	REQUIRED	907
EMERGENCY ALARMS	REQUIRED	REQUIRED	908
MEANS OF EGRESS			
IF OR EXITS			
GROUND FLOOR	2 MIN	8 PROVIDED	1015
UPPER FLOORS	2 MIN	NA	
EXIT ACCESS STAIRWAYS	2 MIN	NA	
DEAD END CORRIDORS	20' MAX	NA	1018.4 EXCEPTION 2
EGRESS CORRIDOR WIDTH	44 MIN		1009
OTHER COMPONENTS WIDTH	36 MIN		ADA

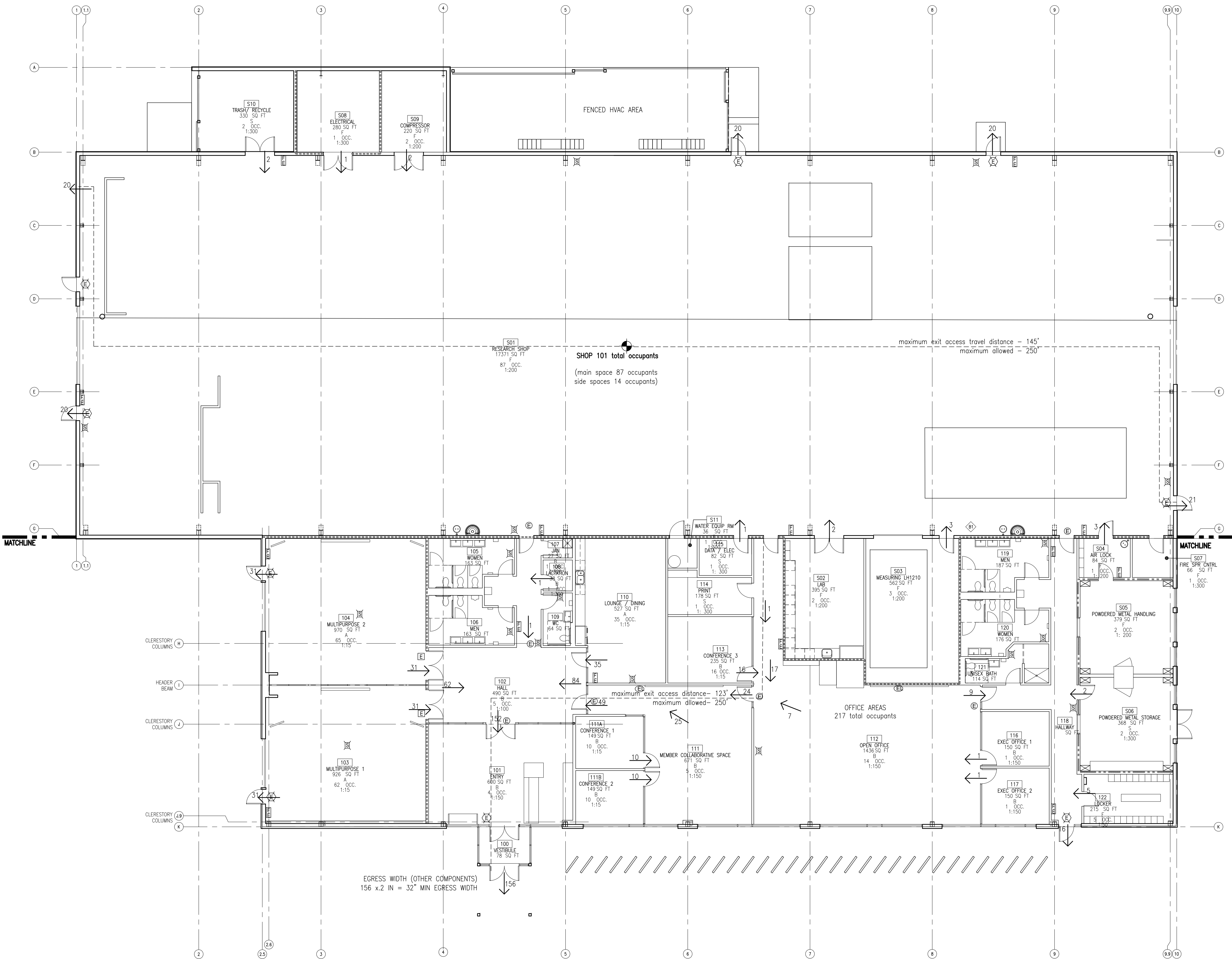
PLUMBING FIXTURE COUNT - ADMINISTRATIVE OFFICES			
TABLE 29-A - GROUP B			
234 OCCUPANTS - 117 MALE, 117 FEMALE			
	REQUIRED	TOTAL REQD.	PROVIDED
WATER CLOSETS - MALE	1:25 (to 50)	4	7 (UNISEX PER 2902.3.2)
WATER CLOSETS - FEMALE	1:40 (to 80)	3	7 (UNISEX PER 2902.3.2)
URINALS - MALE	1:1<50%	1	0
LAVATORIES - MALE	1:40	3	3 (UNISEX PER 2902.3.2)
LAVATORIES - FEMALE	1:40	3	3 (UNISEX PER 2902.3.2)
DRINKING FOUNTAINS	0	0	1
BATH/UB OR SHOWER	0	0	0

PLUMBING FIXTURE COUNT - FACTORY			
TABLE 29-A - GROUP F			
101 OCCUPANTS - 51 MALE, 51 FEMALE			
	REQUIRED	TOTAL REQD.	PROVIDED
WATER CLOSETS - MALE	1:100	1	3 (UNISEX PER 2902.3.2)
WATER CLOSETS - FEMALE	1:100	1	3 (UNISEX PER 2902.3.2)
URINALS - MALE	1:1<50%	0	0
LAVATORIES - MALE	1:100	1	3 (UNISEX PER 2902.3.2)
LAVATORIES - FEMALE	1:100	1	3 (UNISEX PER 2902.3.2)
DRINKING FOUNTAINS	0	0	1
BATH/UB OR SHOWER	0	0	1

TOTAL REQUIRED PLUMBING FIXTURE COUNT (COMBINED)		
BUSINESS + FACTORY OCCUPANCIES		
	TOTAL REQD.	PROVIDED
WATER CLOSETS - MALE	5	7 (UNISEX PER 2902.3.2)
WATER CLOSETS - FEMALE	4	7 (UNISEX PER 2902.3.2)
URINALS - MALE	2	2
LAVATORIES - MALE	4	4 (UNISEX PER 2902.3.2)
LAVATORIES - FEMALE	4	4 (UNISEX PER 2902.3.2)
DRINKING FOUNTAINS	0	2
BATH/UB OR SHOWER	0	1

EXIT LIGHTS, EMERGENCY LIGHTING, STROBES & FIRE EXTINGUISHERS	
Ⓜ DIRECTIONAL EGRESS	Ⓜ EXIT W/ EGRESS
Ⓜ EMERGENCY LIGHT	Ⓜ EXIT W/ EMERGENCY LIGHTS
Ⓜ FIRE EXTINGUISHER	Ⓜ EMERGENCY STROBE

EMERGENCY LIGHTING & ALARM GENERAL NOTES:
1. EXIT AND EMERGENCY LIGHTING SHALL BE PROVIDED AS INDICATED.
2. FIRE EXTINGUISHERS AND CABINETS SHALL BE PROVIDED AS INDICATED.
3. THE LOCATION OF EMERGENCY STROBES SHOWS THE INTENT OF THE DESIGN ONLY. THE LAYOUT AND DESIGN OF STROBES AND OTHER NOTIFICATION DEVICES SHALL BE DESIGNED AND LOCATED BY THE ALARM SYSTEM DESIGNER. IT SHALL BE THE ALARM SYSTEMS DESIGNER'S RESPONSIBILITY TO DESIGN THE SYSTEM TO MEET ALL LOCAL AND FEDERAL CODES.
4. THE ALARM AND NOTIFICATION DESIGN SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO SUBMISSION FOR PERMIT.



GROSS OCCUPANT LOADS:	
SHOP AREAS	101
OFFICE AREAS	234
TOTAL	335

NUMBER OF EXITS REQUIRED IN EACH ROOM OR AREA:
-PER OSCC TABLE 1015.1:
A-2 & B OCCUPANCY ROOMS WITH OCCUPANT LOAD OF 49 OR LESS REQUIRE MIN. ONE EXIT.
S-1 OCCUPANCY ROOMS WITH OCCUPANT LOAD OF 29 OR LESS REQUIRE MIN. ONE EXIT.
F-2 OCCUPANCY ROOMS WITH OCCUPANT LOAD OF 49 OR LESS REQUIRE MIN. ONE EXIT.

NUMBER OF EXITS PROVIDED IN EACH ROOM OR AREA:
- ONE EXIT IS PROVIDED FROM EACH ROOM WITHIN THE BUILDING.
- FOUR (4) EXITS PROVIDED TO EXTERIOR FROM OFFICES.
- FIVE (5) EXITS PROVIDED TO EXTERIOR FROM SHOP.

LONGEST EXIT PATH PER TABLE 1017.2:
- MAXIMUM EXIT PATH FOR BUSINESSES "B" IS 300'
- MAXIMUM EXIT PATH FOR FACTORY "F-1" IS 250'
- THE LONGEST EXIT PATH FROM FURTHEST OFFICE ROOM TO EXTERIOR IS 120'
- THE LONGEST EXIT PATH FROM FURTHEST LOCATION IN SHOP TO EXTERIOR IS 145'.

1 FIRE LIFE SAFETY PLAN
FLS-1
3/32" = 1'-0"





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DRAWN BY: AP
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CAD FILE: -
DATE: Sept 8, 2023

CONTENTS:

FURNITURE & EQUIPMENT

SHEET NO:

FOR COORDINATION PURPOSES

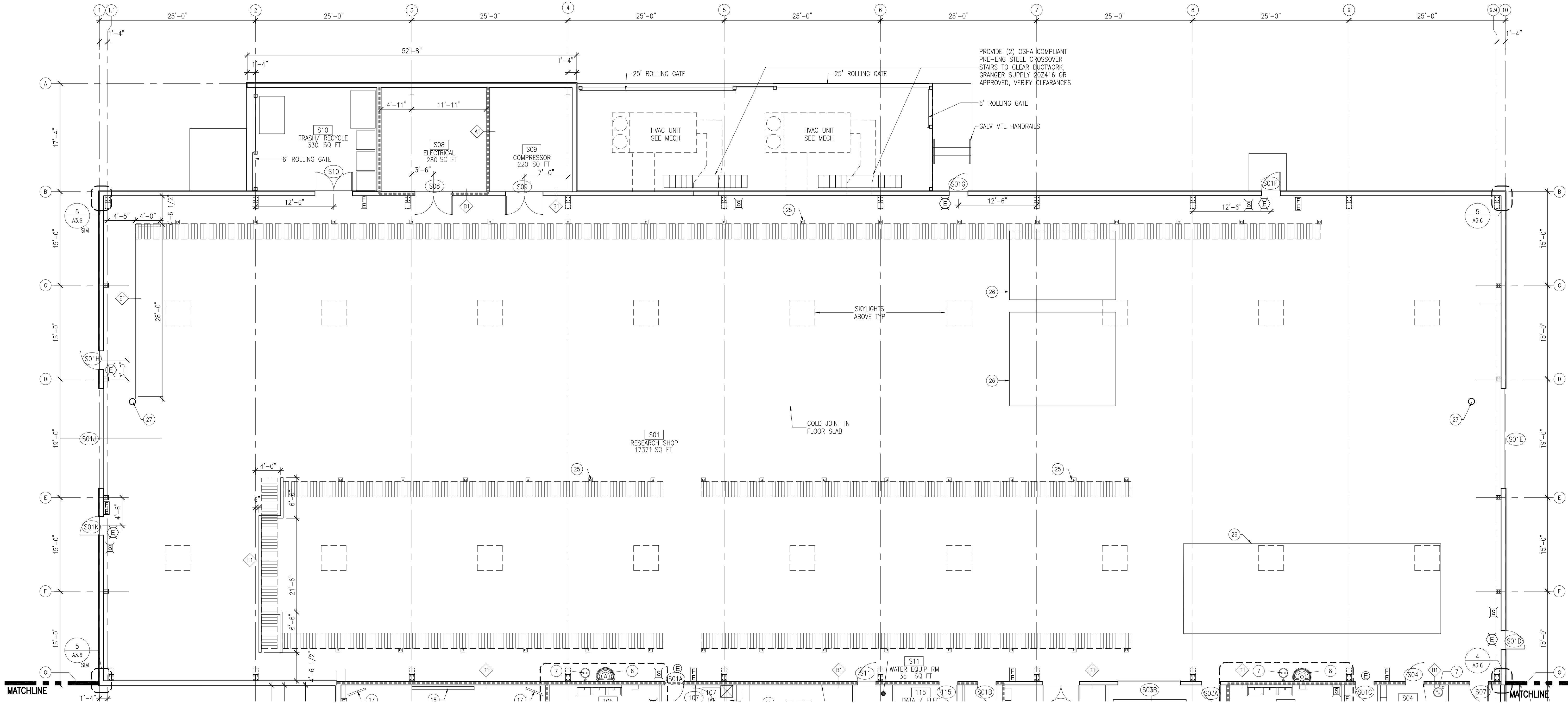
PERMIT SET

FE-1



OTHER EQUIPMENT AND FURNISHINGS ARE SHOWN FOR INFORMATION PURPOSES ONLY TO SHOW THE INTENT OF THE DESIGN. ACTUAL LOCATION OF EQUIPMENT OR FURNISHINGS MAY VARY.

1	FURNITURE & EQUIPMENT PLAN
A1.1	1'-0" = 3/32"



- KEY NOTES: (F)
- INTERIOR ALUM. PARTITION, SEE INTERIOR ELEVATIONS
 - EXTERIOR ALUM. STOREFRONT SYS.
 - PHENOLIC PANELS, SEE EXTERIOR ELEVATIONS
 - EXPLOSION VENTS, SEE ELEVATIONS
 - LOCKERS ON 4" WD BASE & WD BENCH
 - DOORS W/ AIRLOCK SEALS
 - EYEWASH, SEE PLUMB
 - HANDWASH SINK, SEE PLUMB
 - CART PASS THROUGH
 - WIRE STORAGE SHELVES
 - 24"x72" PLAM STORAGE CABINETS W/ POWER STRIP FOR CHARGING PERSONAL EQUIPMENT
 - ROOF ACCESS WALL LADDER W/ 36x36 HATCH ABOVE
 - ACOUSTICAL WALL TREATMENT SEE INT. ELEVATIONS
 - (3) WALL MTD SHELVES ABOVE MOP SINK
 - MOVABLE PARTITION
 - RETRACTABLE SCREEN W/ SHORT THROW PROJECTOR
 - 40" MONITORS TYP (4), MONITORS IN RM 103 INSTALLED W/ AUTOMATIC RETRACTABLE MOUNTS
 - 18 CUSTOM CASEWORK AT RECEPTION DESK AND WALL PANELS FOR "MEMBER BOARD"
 - GLASS DISPLAY CASE
 - ROLLING WHITEBOARD - CLAUS "GLIDE" 16"x95" OR APPROVED
 - GRAPHIC WALL ART
 - MAILBOXES
 - PHONE BOOTHS
 - FUME HOOD
 - DATA/ELEC. LADDER RACKS ON STL POSTS TYP
 - ISOLATED EQUIPMENT SLAB, SEE STRUCTURAL
 - REMOVABLE BOLLARD

1 GROUND FLOOR PLAN
A1.1 1'-0" = 3/32"

- EXIT LIGHTS, EMERGENCY LIGHTING, STROBES & FIRE EXTINGUISHERS
- | | |
|------------------------|------------------------------|
| (E) DIRECTIONAL EGRESS | (E) EXIT W/ EGRESS |
| (E) EMERGENCY LIGHT | (E) EXIT W/ EMERGENCY LIGHTS |
| (E) FIRE EXTINGUISHER | (E) EMERGENCY STROBE |
- EMERGENCY LIGHTING & ALARM GENERAL NOTES
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 - THE ALARM AND NOTIFICATION DESIGN SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO SUBMISSION FOR PERMIT.

- GENERAL FLOOR PLAN NOTES:
- ALL PARTITIONS ARE PARTITION TYPE "A2" UNLESS NOTED OTHERWISE
 - ALL PEDESTRIAN DOORS EXITING TO THE OUTSIDE FROM THE SHOP AND POWDERED METAL ROOMS SHALL BE EQUIPPED WITH PANIC HARDWARE.
 - SEE EQUIPMENT & FURNISHING PLAN FOR EQUIPMENT INSTALLED BY CONTRACTOR.

WALL LEGEND:

=====	ONE-HOUR RATED WALL
=====	TWO-HOUR RATED WALL

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REGISTERED ARCHITECT
WILLIAM ALLAN PETERSEN
ST. HELENS, OREGON
STATE OF OREGON

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SCALE: AS NOTED
DRAWN BY: KP
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CAD FILE: 1503_PLAN_E.DWG
DATE: Sept 8, 2020

REVISIONS	
△	DESCRIPTION

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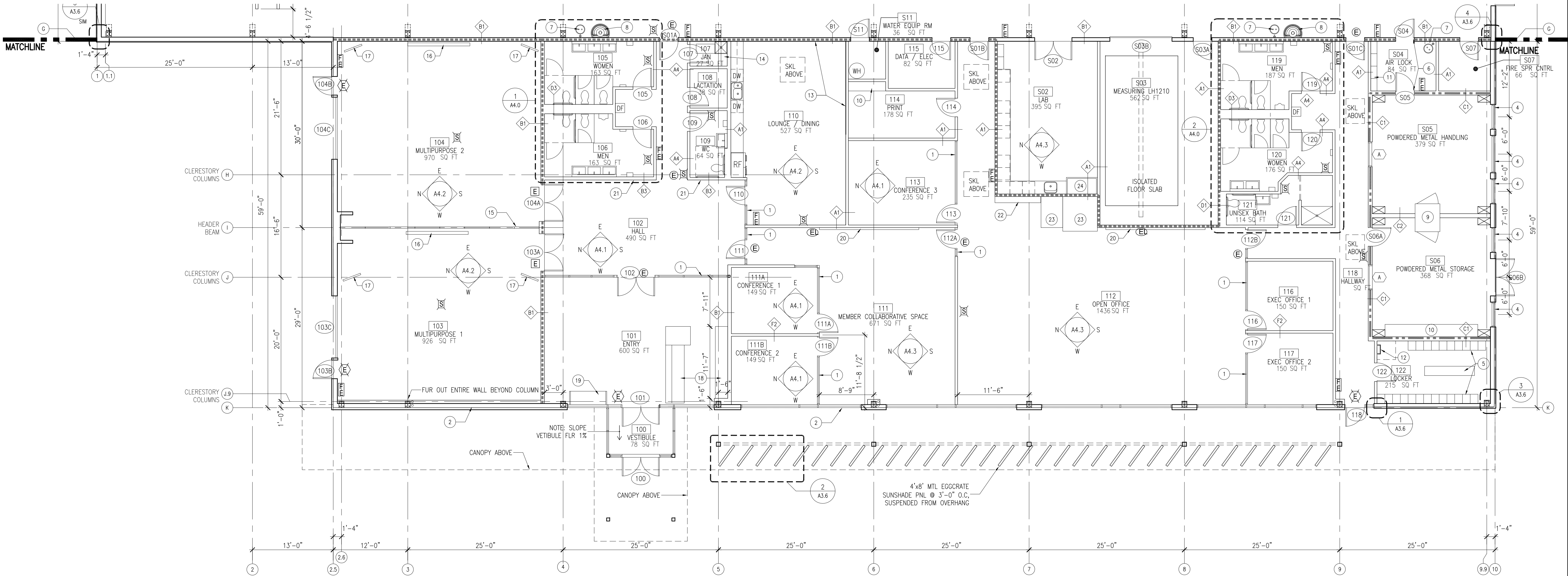
EAST FLOOR PLAN
SHOP

SHEET NO:

A1.1

PERMIT SET

101 ST HELENS ST
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- KEY NOTES:** (P)
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1 GROUND FLOOR PLAN
A1.2 1'-0" = 3/32"

EXIT LIGHTS, EMERGENCY LIGHTING, STROBES & FIRE EXTINGUISHERS

(E) DIRECTIONAL EGRESS	(E) EXIT W/ EGRESS
(E) EMERGENCY LIGHT	(E) EXIT W/ EMERGENCY LIGHTS
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=====	ONE-HOUR RATED WALL
=====	TWO-HOUR RATED WALL

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REVISIONS	
△	DATE DESCRIPTION

CONTENTS:

WEST FLOOR PLAN
OFFICE

SHEET NO:

A1.2

AKAAN
architecture + design llc

REGISTERED ARCHITECT
WILLIAM ALLAN
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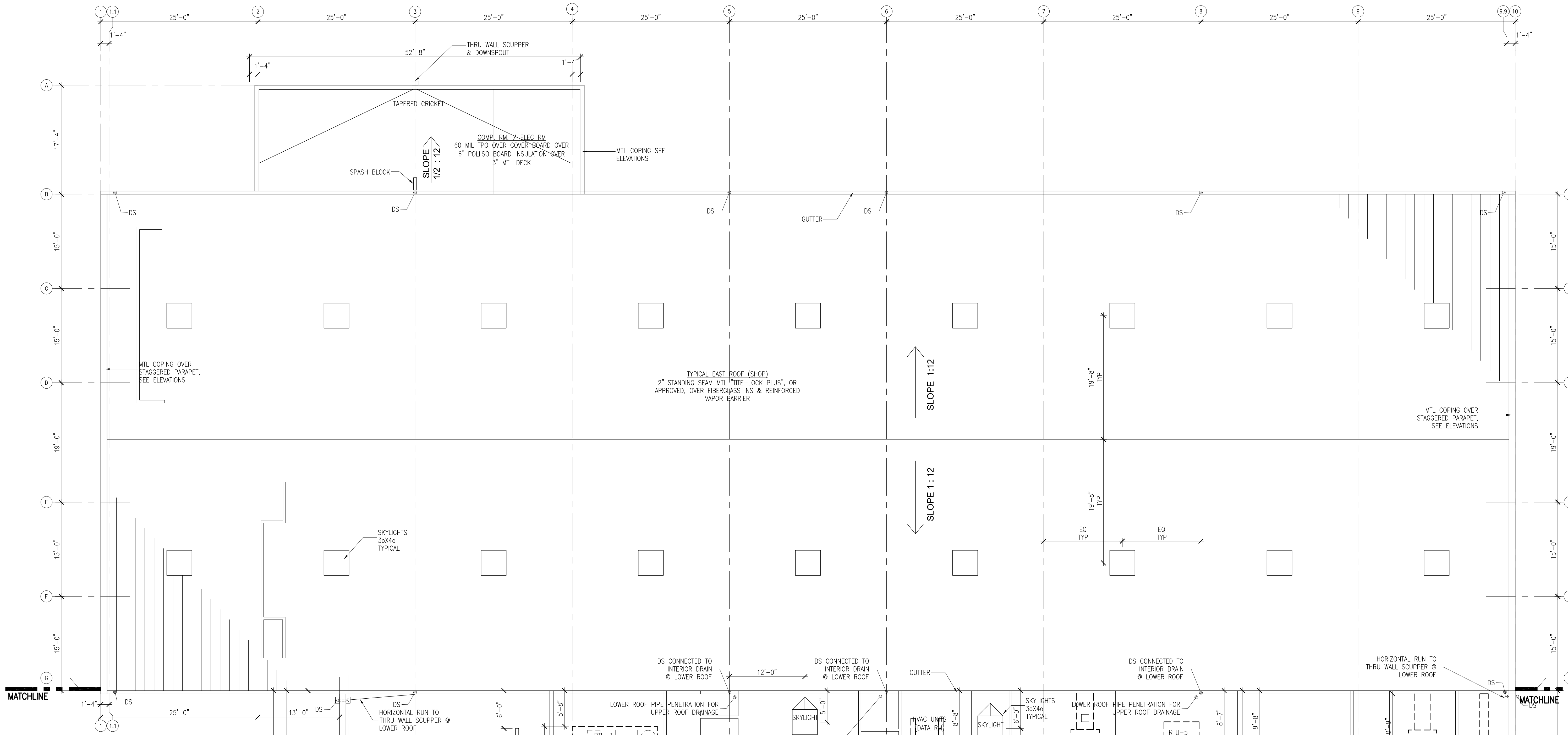
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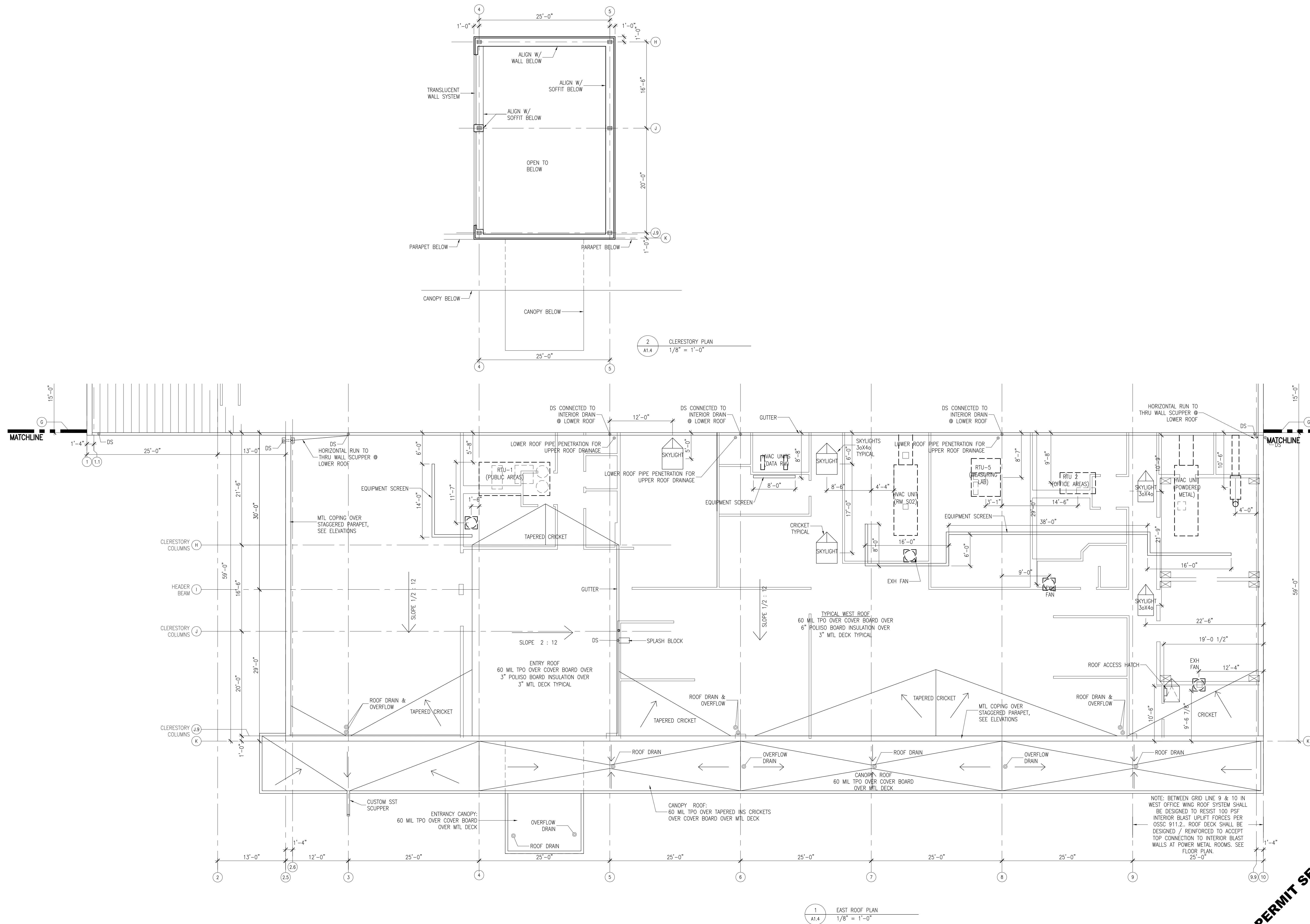
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Scappoose, Oregon 97056
503-983-0573

OMIC R&D - Building 2
Additive Manufacturing Center
33701 Charles T. Parker Way
Scappoose, Oregon 97056

SCALE: AS NOTED
DRAWN BY: AP
CHECKED BY: -
CAD FILE: 1503_ROOFPLAN
DATE: Sept 8, 2029

REVISIONS		
△	DATE	DESCRIPTION

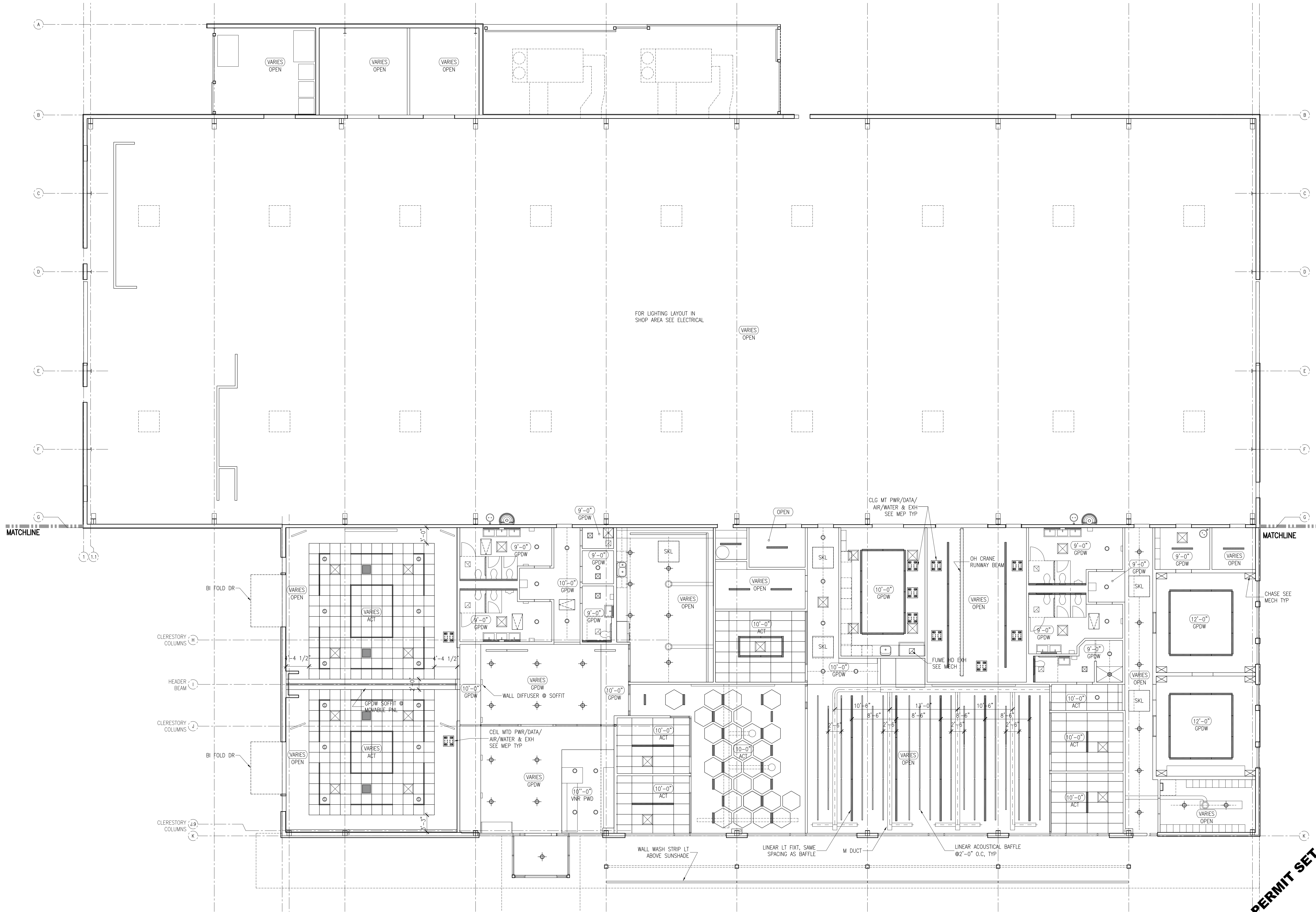
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ROOF PLAN
WEST

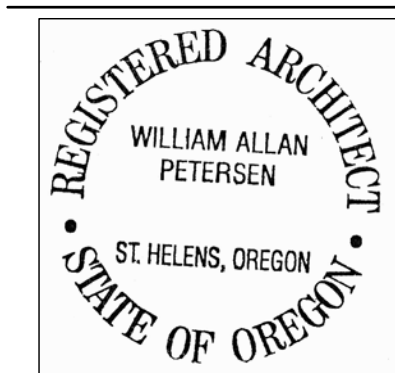
SHEET NO:

A1.4

PERMIT SET



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SCALE: 1/8" = 1'-0"
DRAWN BY: KP
CHECKED BY:
CAD FILE: 1503_RCP.DWG
DATE: Sept 8, 2029

REVISIONS	
△	DESCRIPTION

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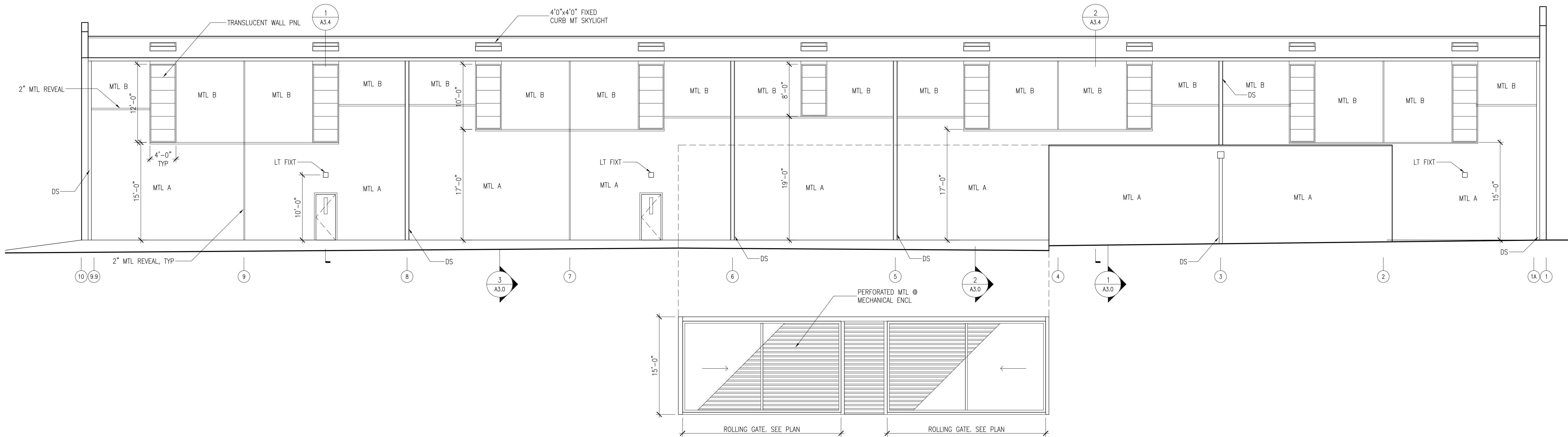
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PLAN

SHEET NO:

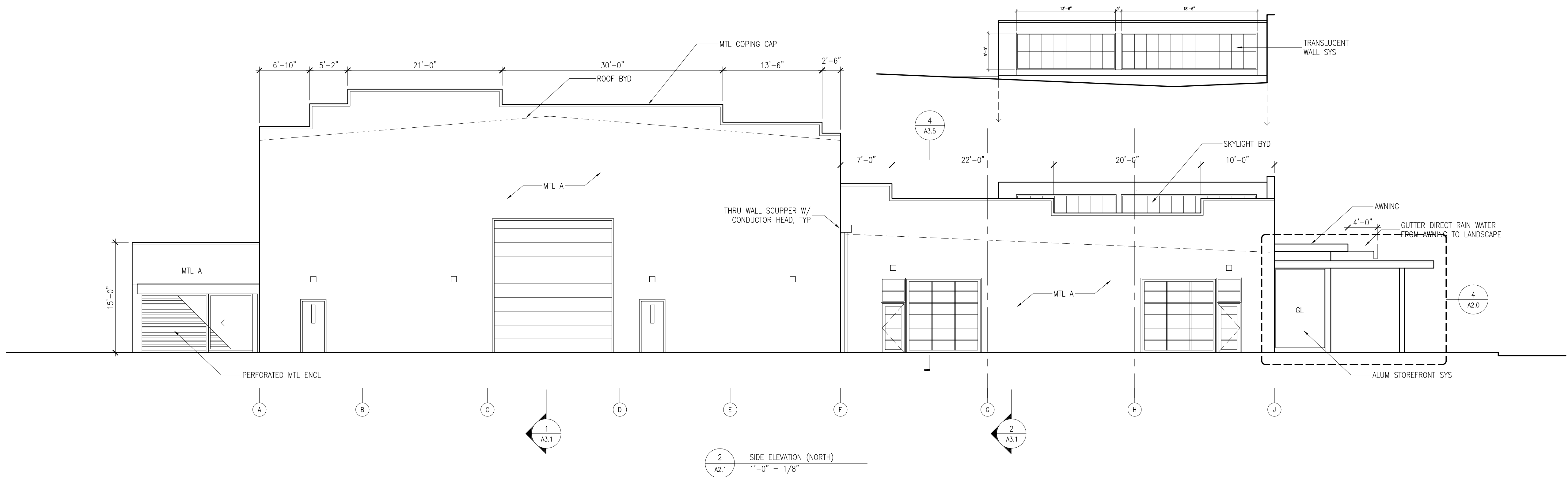
A1.5

PERMIT SET





1 REAR ELEVATION (EAST)
1'-0" = 1/8"



2 SIDE ELEVATION (NORTH)
1'-0" = 1/8"

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SCALE: AS NOTED
DRAWN BY: KP
CHECKED BY: -
CAD FILE: 1503_ELEVS-B.DWG
DATE: Sept 8, 2029

REVISIONS		
△	DATE	DESCRIPTION

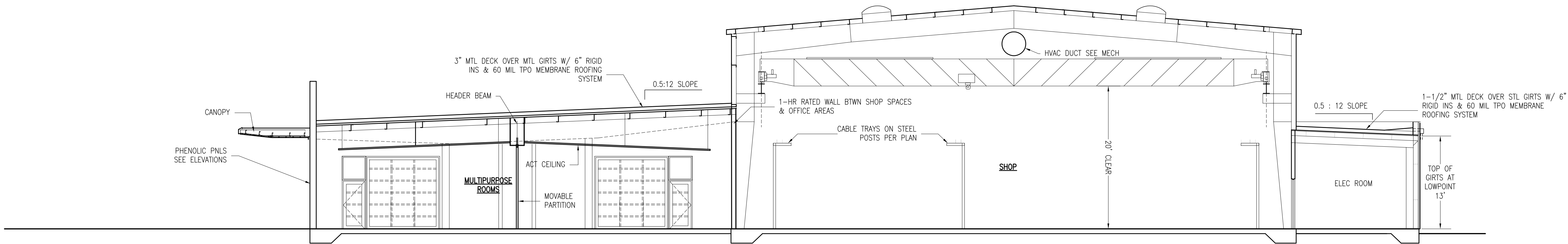
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EXTERIOR
ELEVATIONS

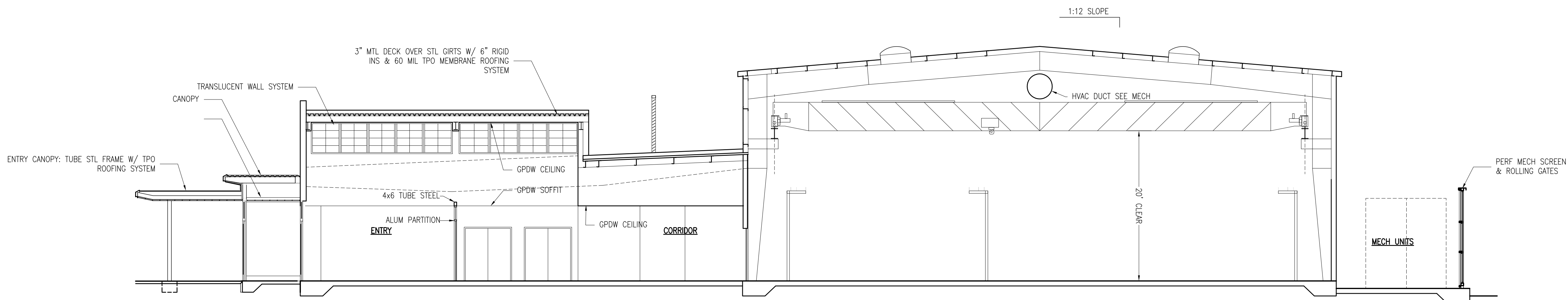
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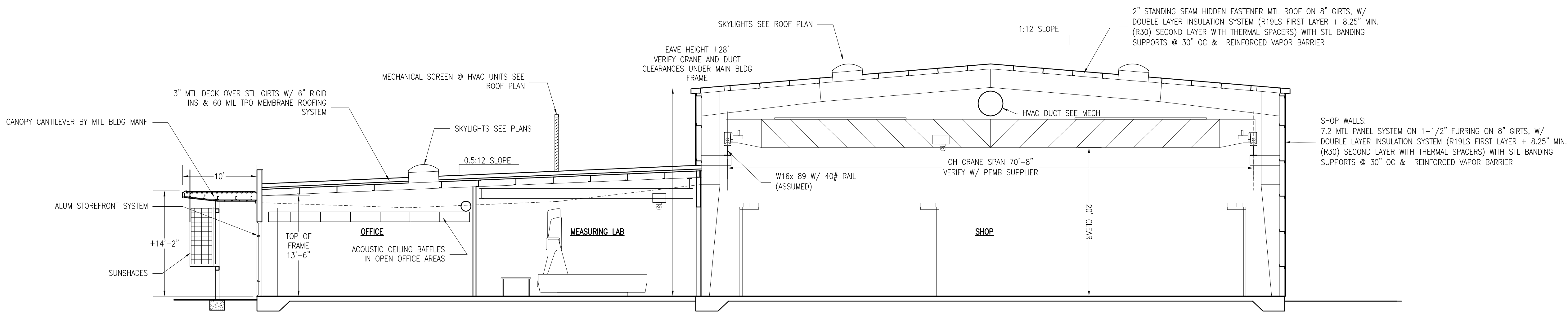
PERMIT SET



1
A3.0 BUILDING SECTION THROUGH MULTIPURPOSE ROOM
1/8" = 1'-0"



2
A3.0 BUILDING SECTION THROUGH ENTRY
1/8" = 1'-0"



3
A3.0 BUILDING SECTION THROUGH OFFICE / SHOP / COMPRESSOR SHED
1/8" = 1'-0"

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SCALE: AS NOTED
DRAWN BY: AP
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CAD FILE: 1503_Sections
DATE: Sept 8, 2029

REVISIONS		
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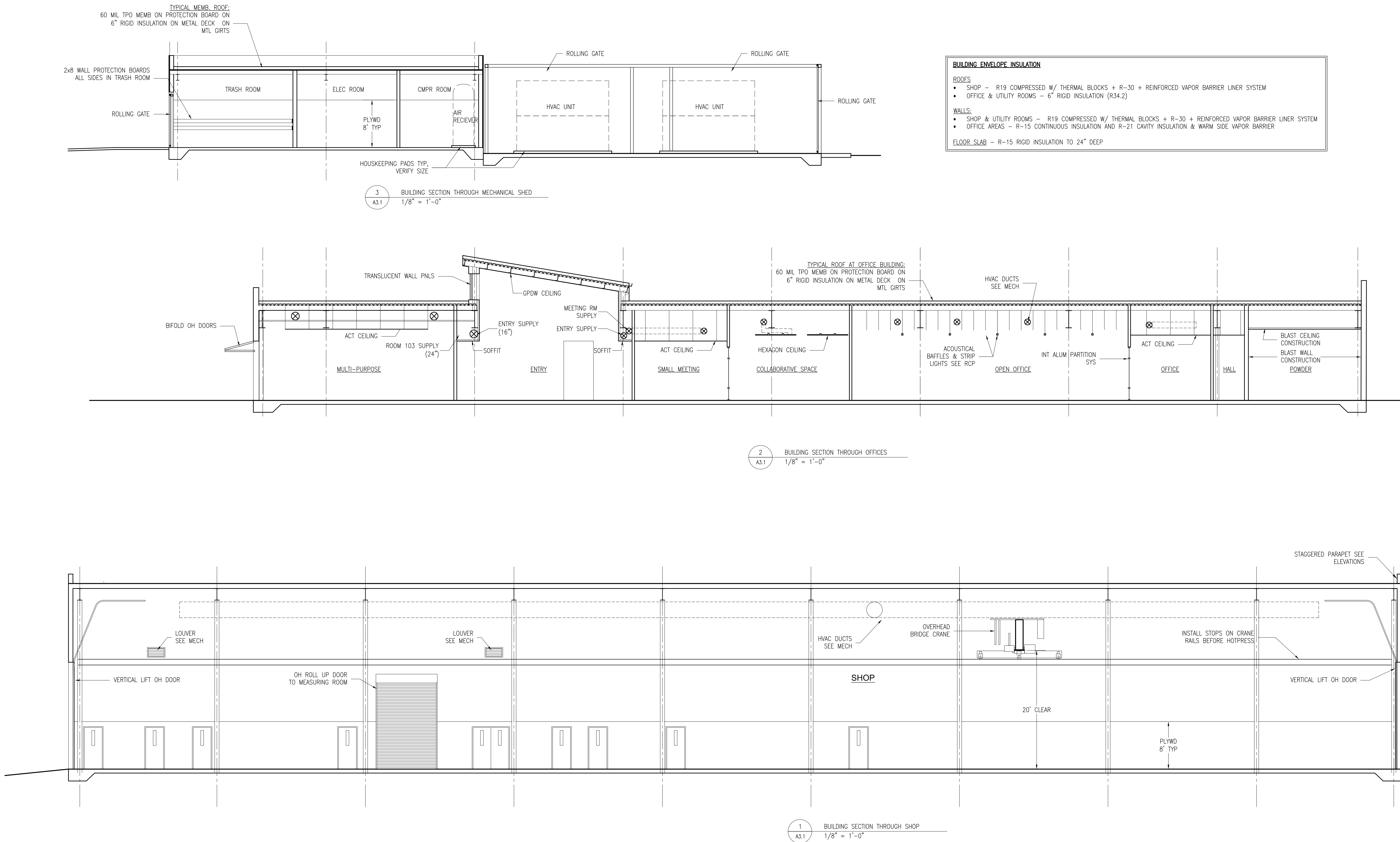
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BUILDING SECTIONS

SHEET NO:

A3.0

PERMIT SET



BUILDING ENVELOPE INSULATION	
ROOFS	
• SHOP - R19 COMPRESSED W/ THERMAL BLOCKS + R-30 + REINFORCED VAPOR BARRIER LINER SYSTEM	
• OFFICE & UTILITY ROOMS - 6" RIGID INSULATION (R34.2)	
WALLS	
• SHOP & UTILITY ROOMS - R19 COMPRESSED W/ THERMAL BLOCKS + R-30 + REINFORCED VAPOR BARRIER LINER SYSTEM	
• OFFICE AREAS - R-15 CONTINUOUS INSULATION AND R-21 CAVITY INSULATION & WARM SIDE VAPOR BARRIER	
FLOOR SLAB	- R-15 RIGID INSULATION TO 24" DEEP



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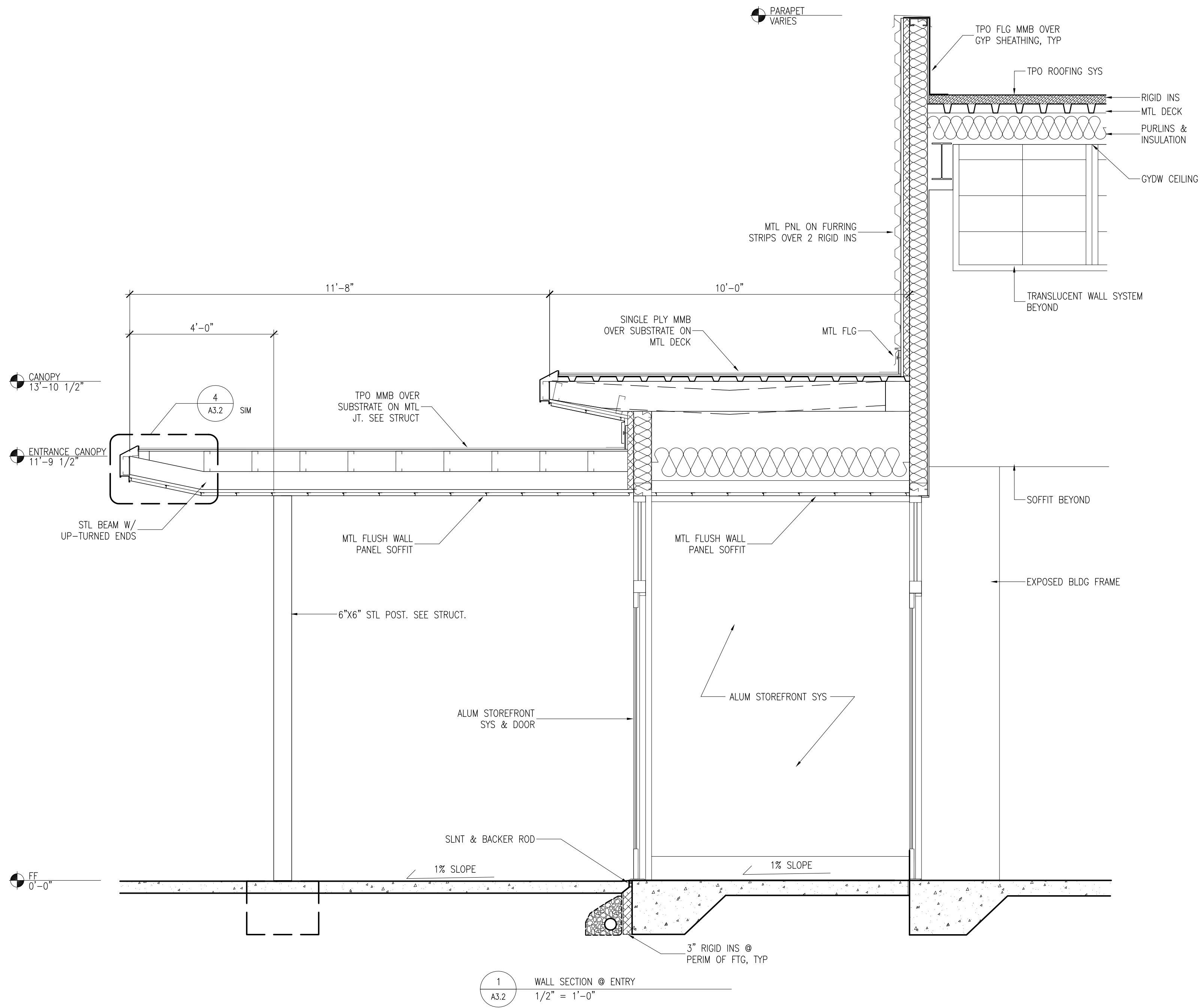
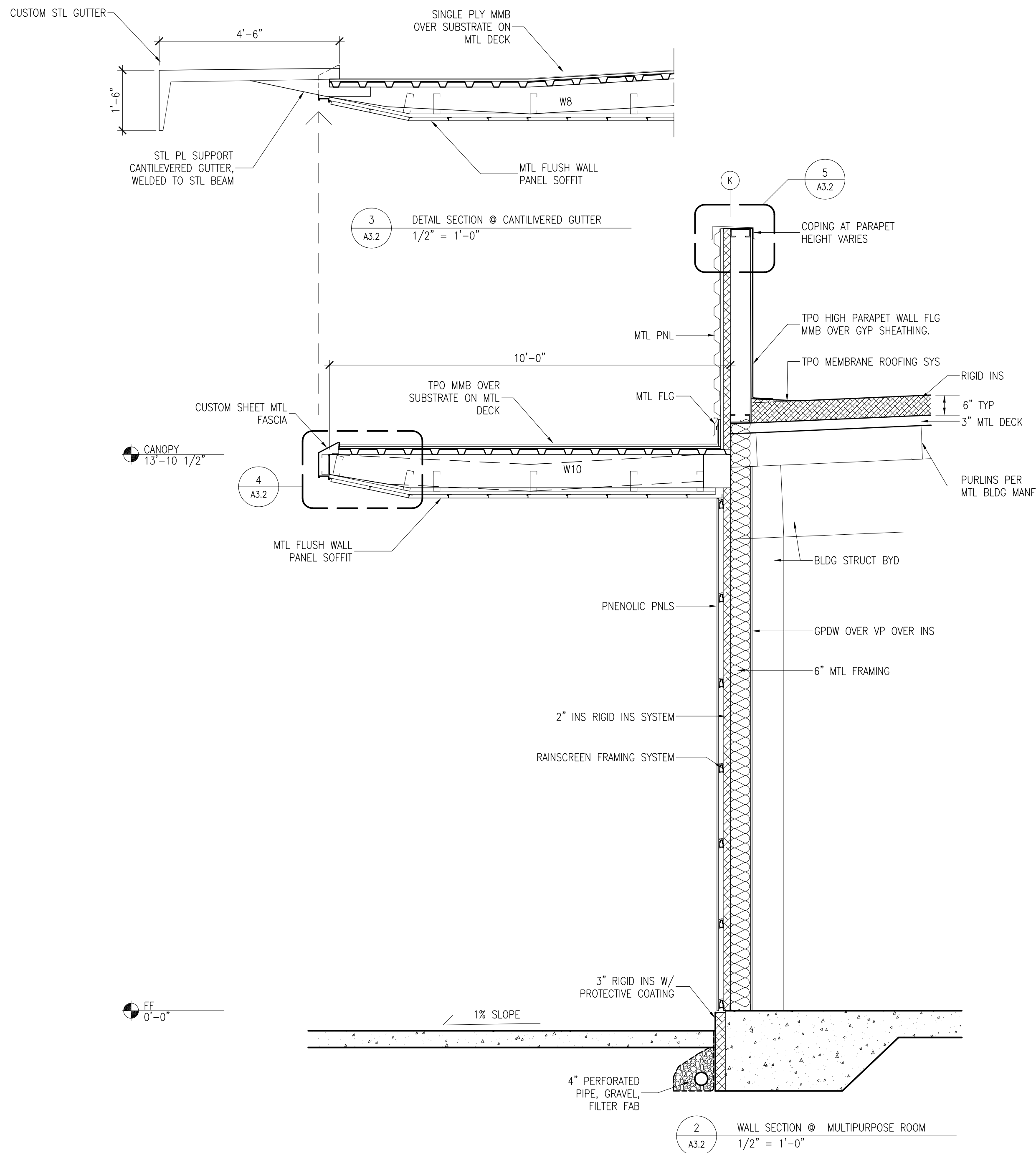
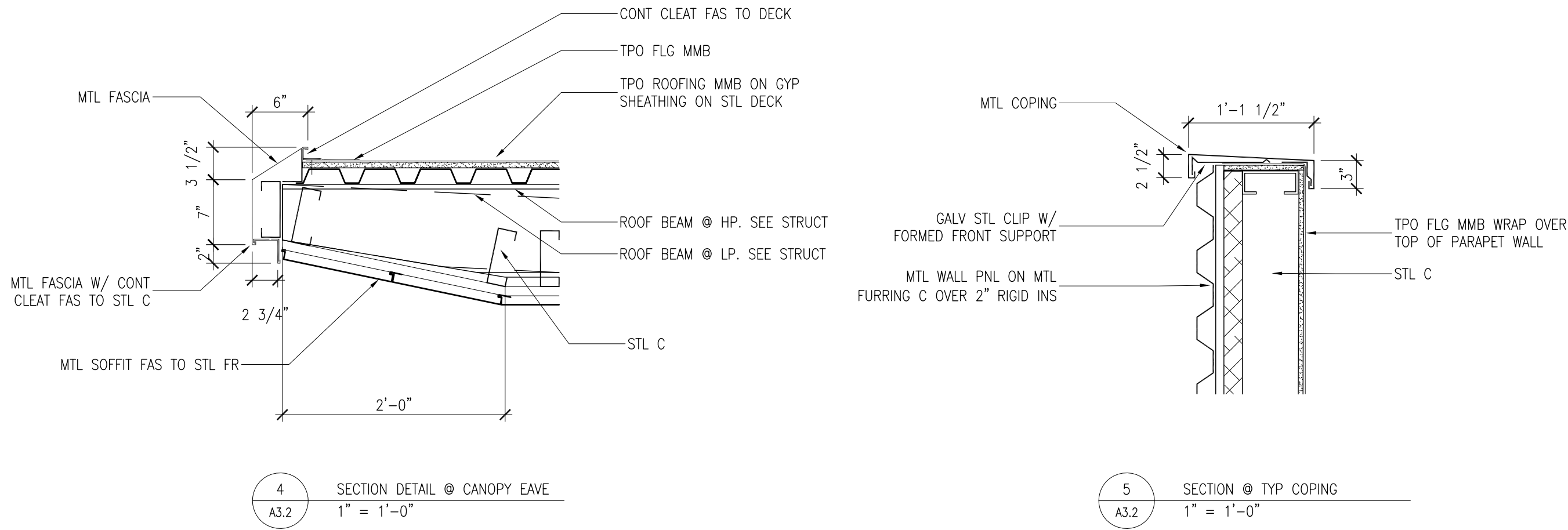
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BUILDING SECTIONS

SHEET NO:

A3.1

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CAD FILE: 1503-A3-WallSections
DATE: Sept 8, 2020

REVISIONS	
△	DESCRIPTION

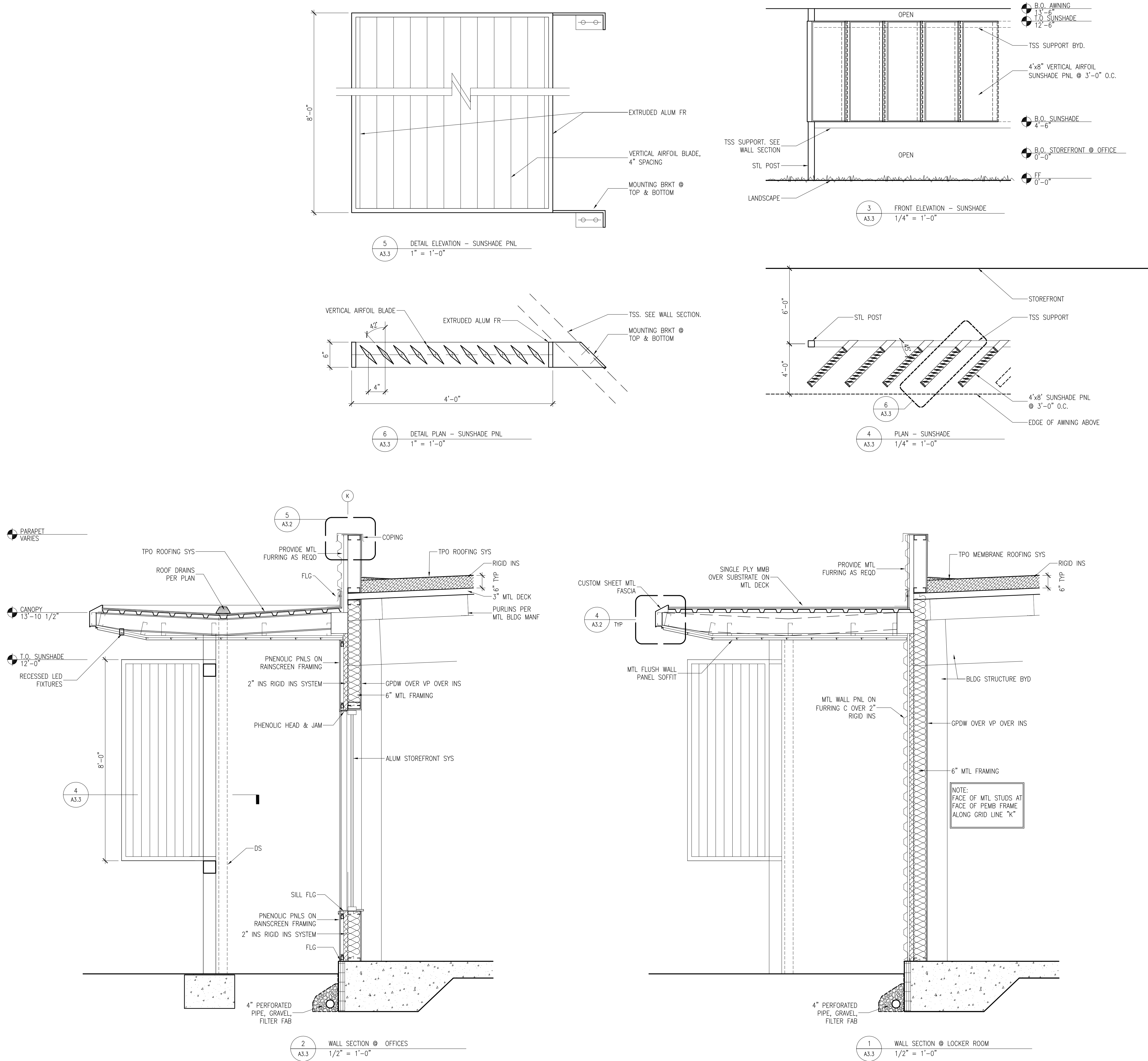
CONTENTS:

WALL SECTIONS
ENTRY AREA

SHEET NO:

A3.2

PERMIT SET



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DRAWN BY: AP
CHECKED BY: -
CAD FILE: 1503-A3-WallSections
DATE: Sept 8, 2020

REVISIONS		
△	DATE	DESCRIPTION

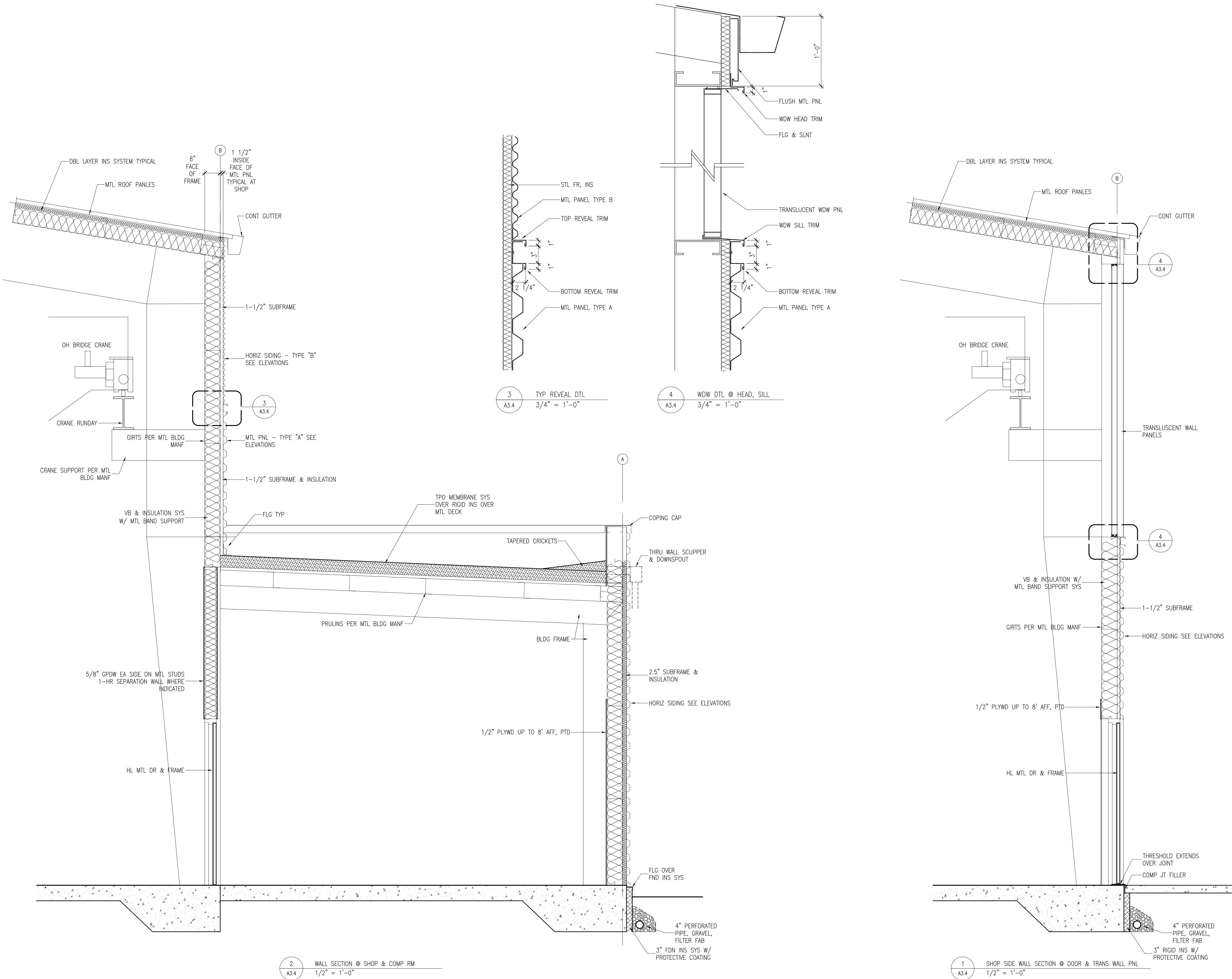
CONTENTS:

WALL SECTIONS

SHEET NO:

A3.3

PERMIT SET



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REVISIONS		
△	DATE	DESCRIPTION

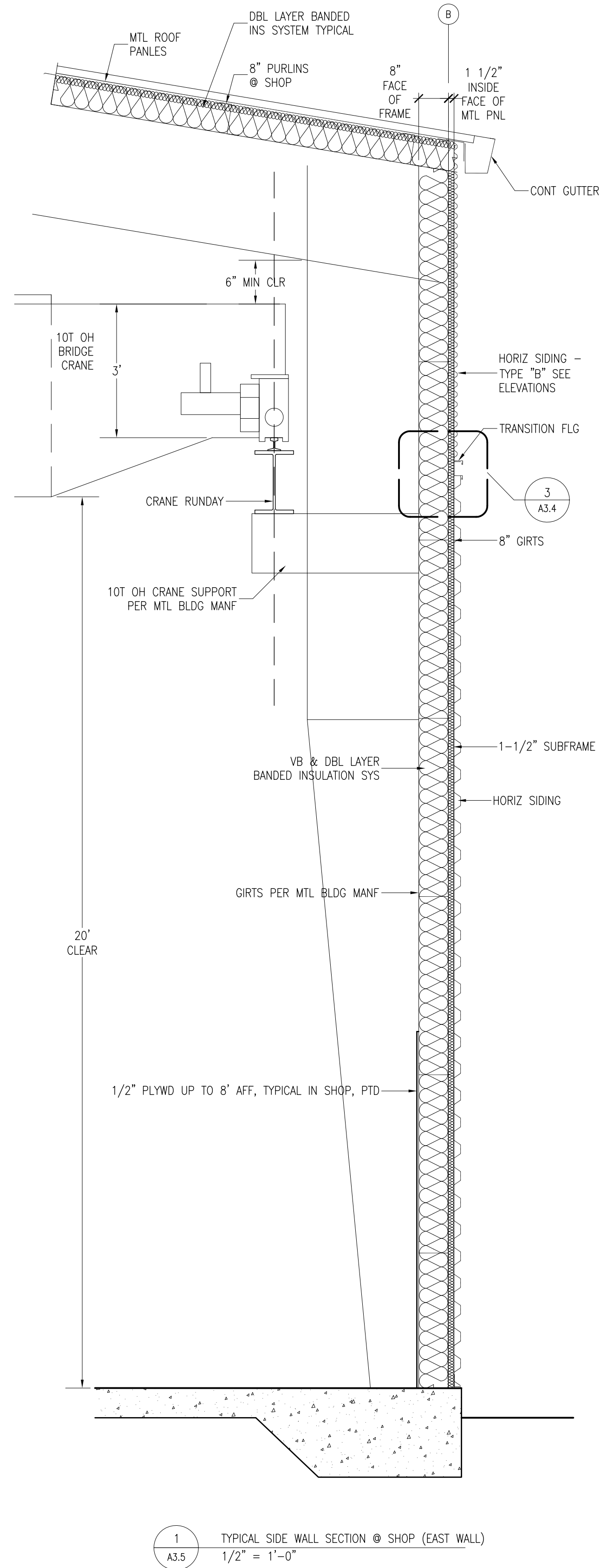
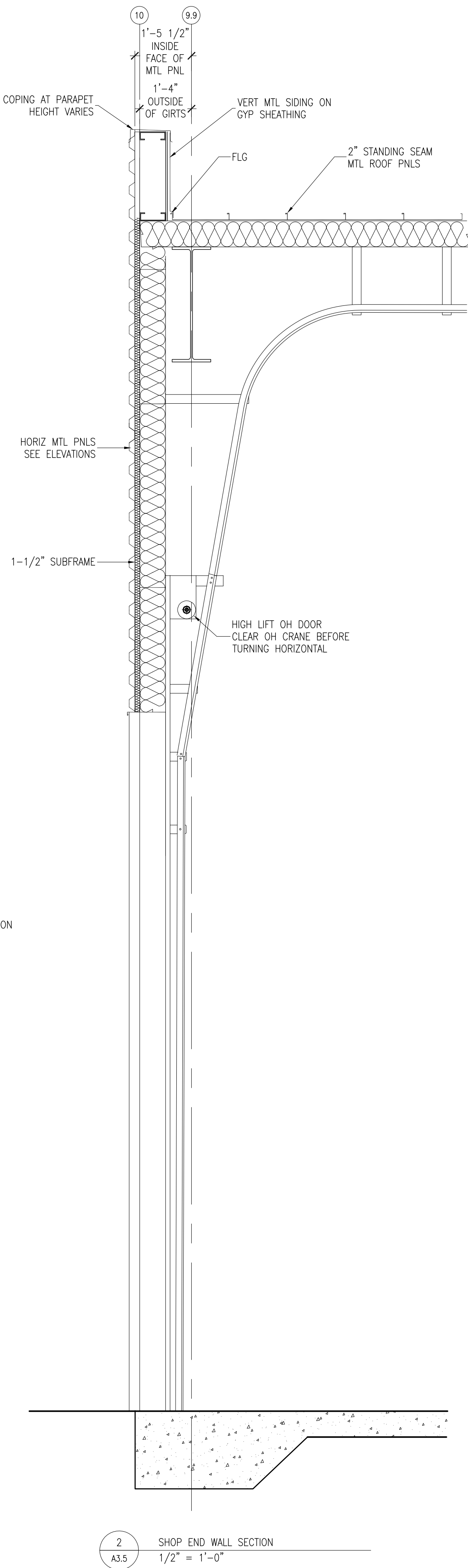
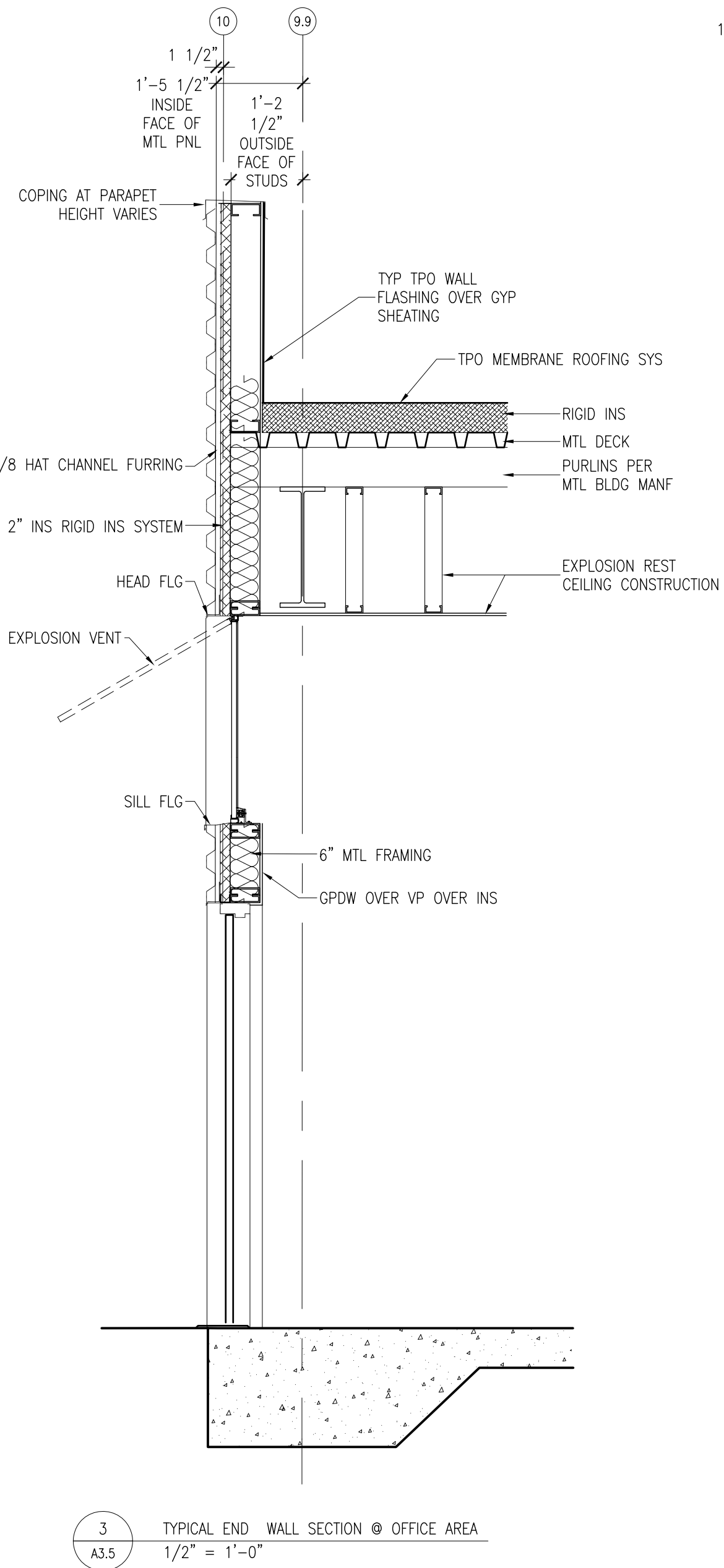
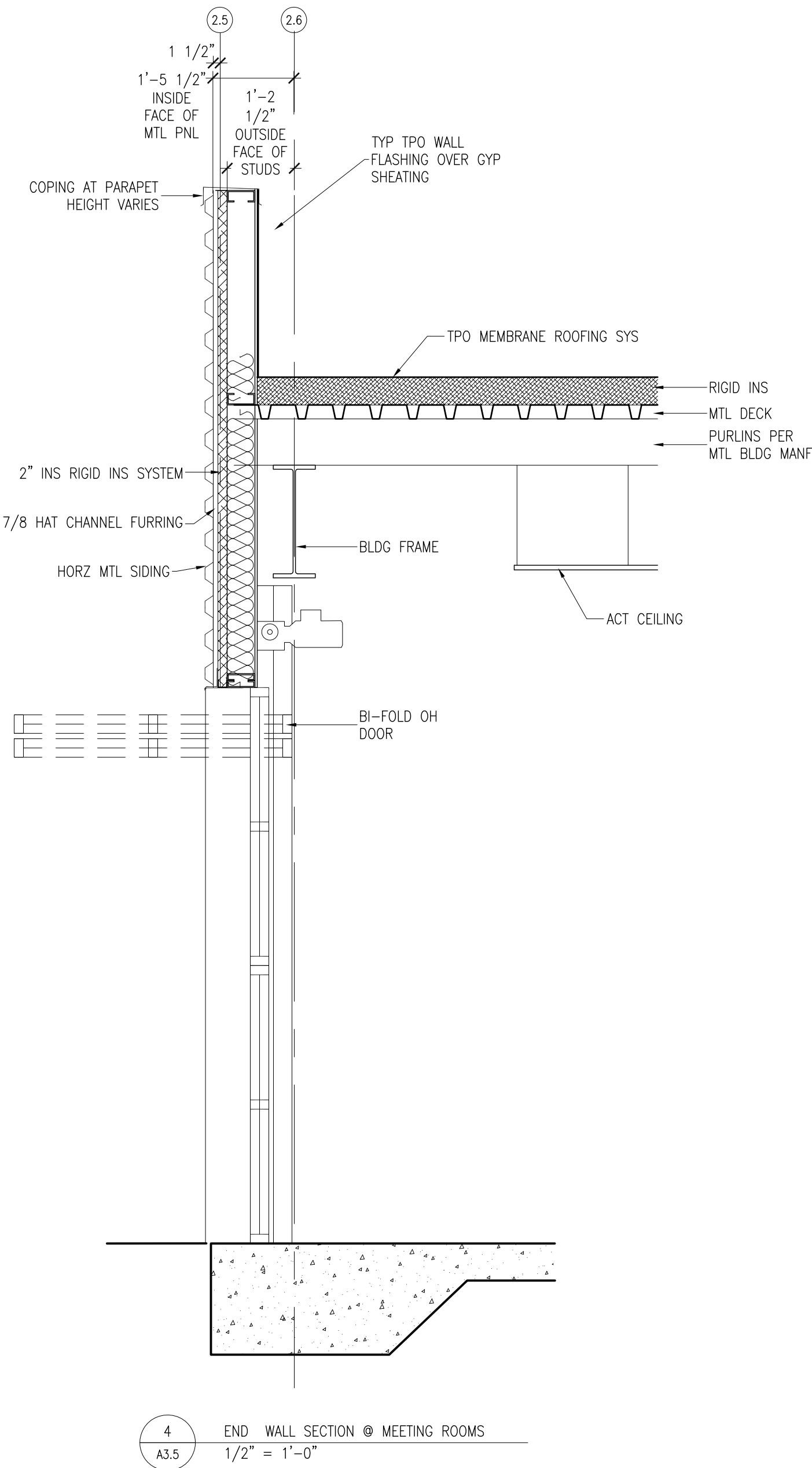
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WALL SECTIONS

SHEET NO:

A3.4

PERMIT SET



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SCALE: AS NOTED
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CAD FILE: 1503-A3-WallSections
DATE: Sept 8, 2020

REVISIONS	
△	DESCRIPTION

CONTENTS:

WALL SECTIONS

SHEET NO:

A3.5

PERMIT SET

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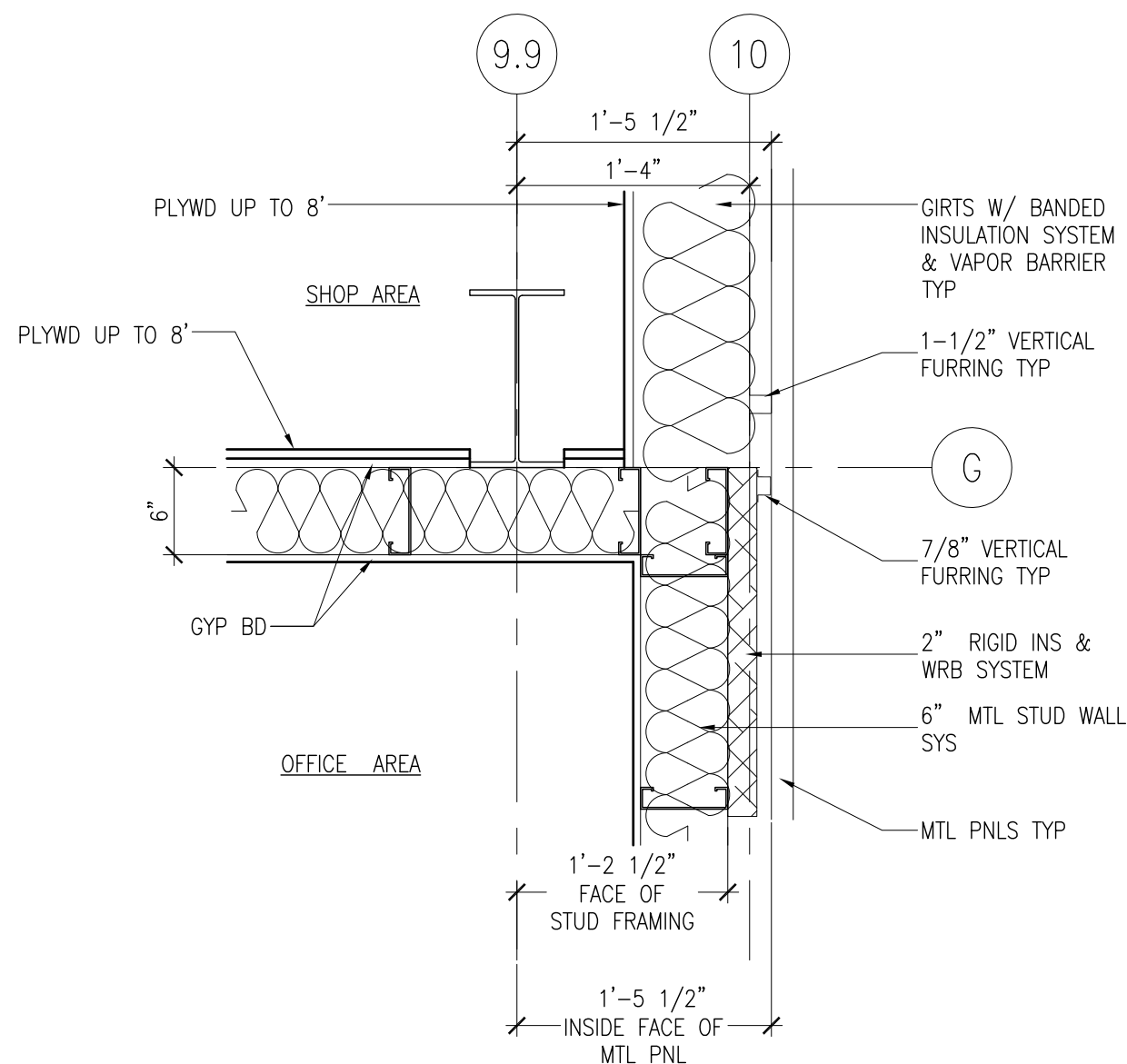
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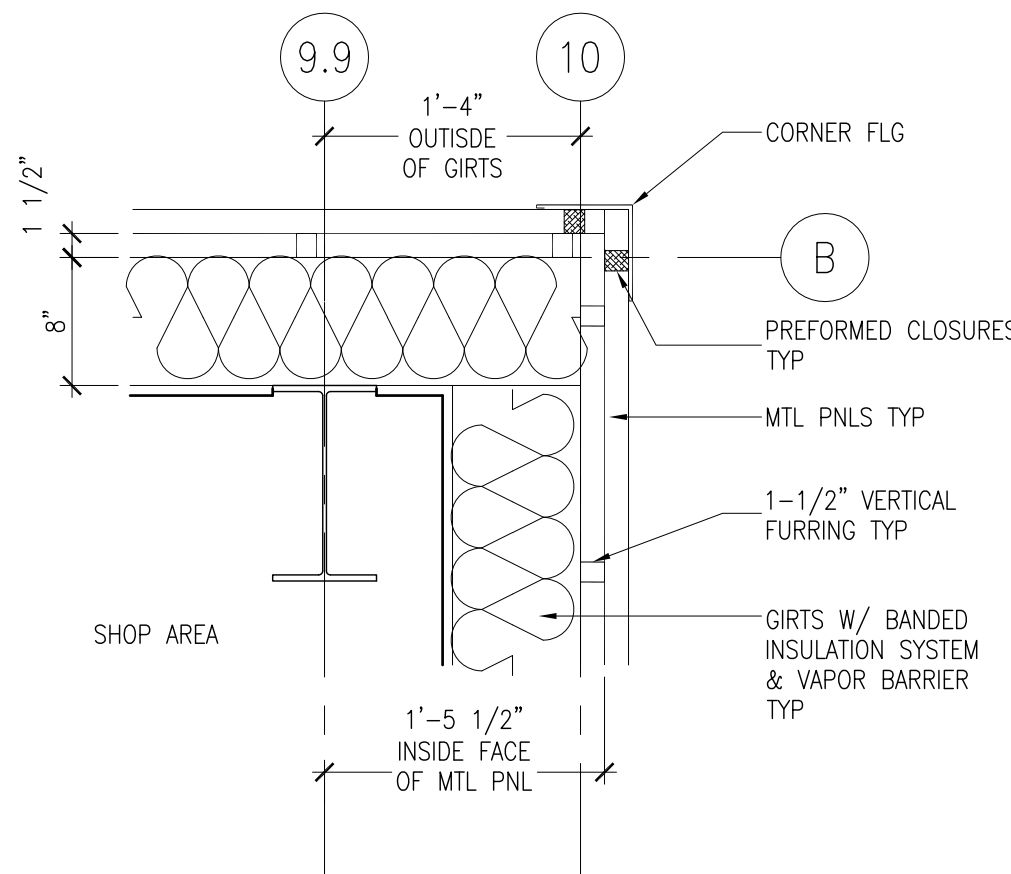
EXT DETAILS

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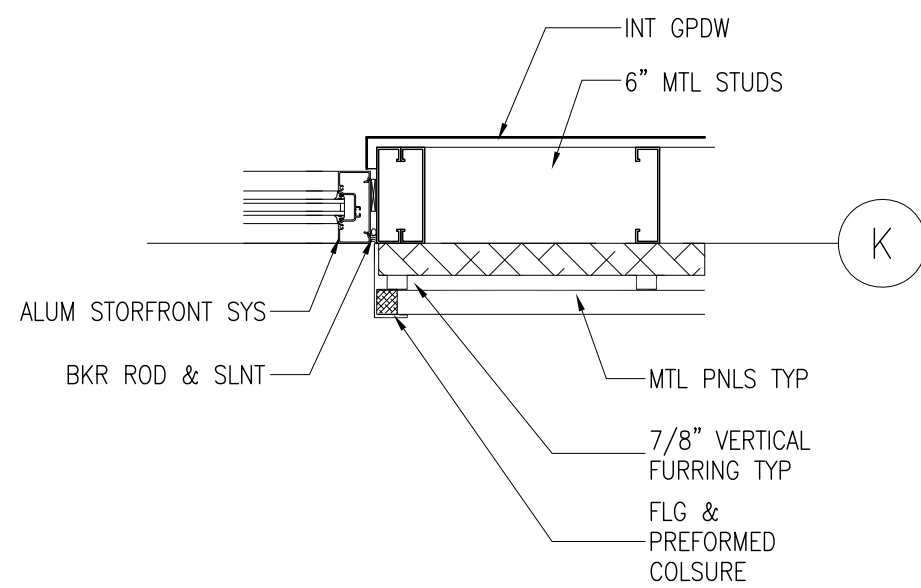
A3.6



4 PLAN DETAIL
1" = 1'-0"

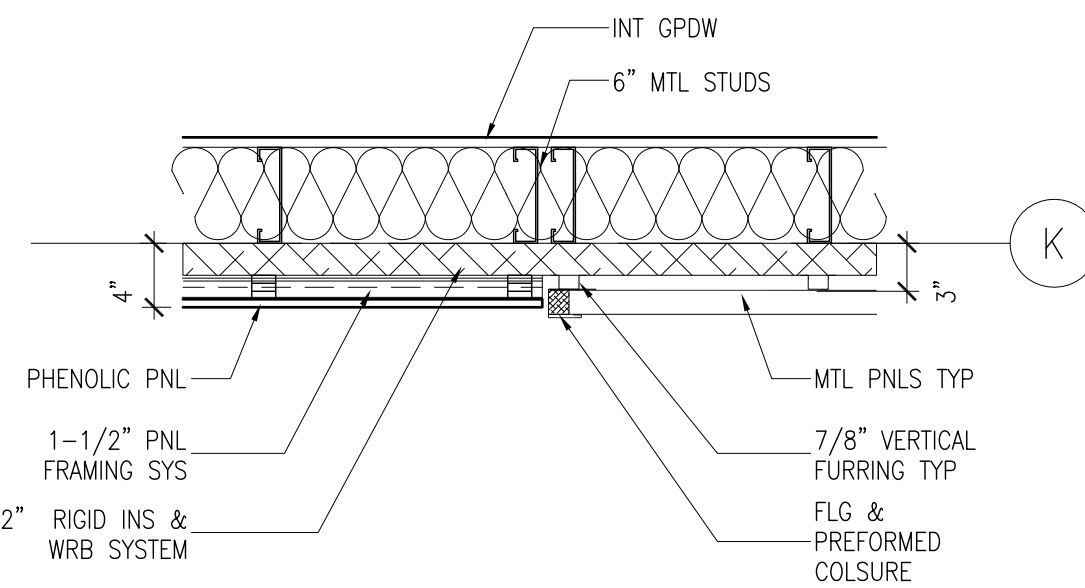


5 PLAN DETAIL
1" = 1'-0"



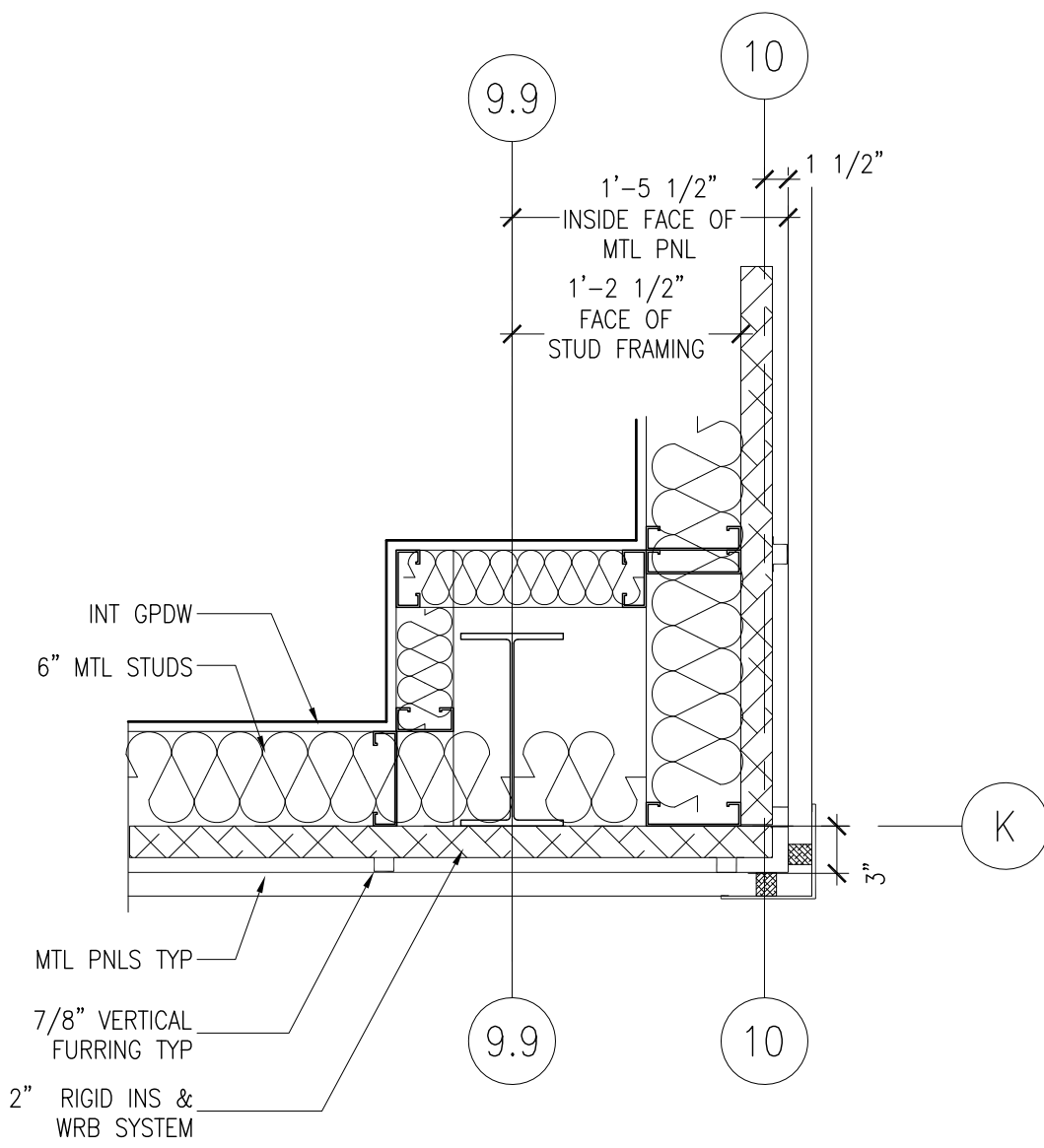
1 WALL DETAIL @ OFFICE AREA
1" = 1'-0"

TRANSITION BETWEEN METAL PANEL
& ALUM STOREFRONT



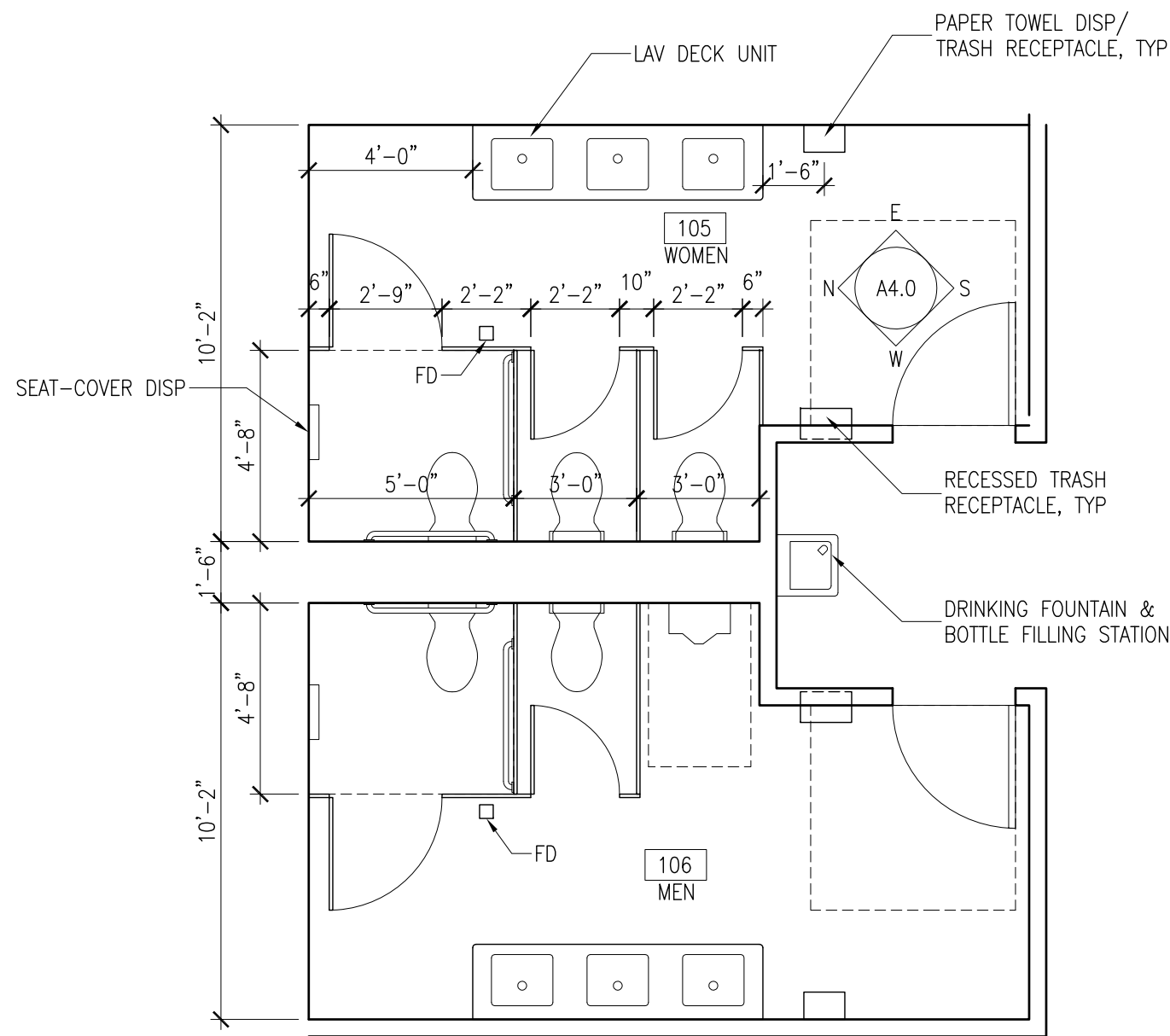
2 WALL DETAIL @ OFFICE AREA
1" = 1'-0"

TRANSITION BETWEEN METAL PANEL
& PHENOLIC PANELS

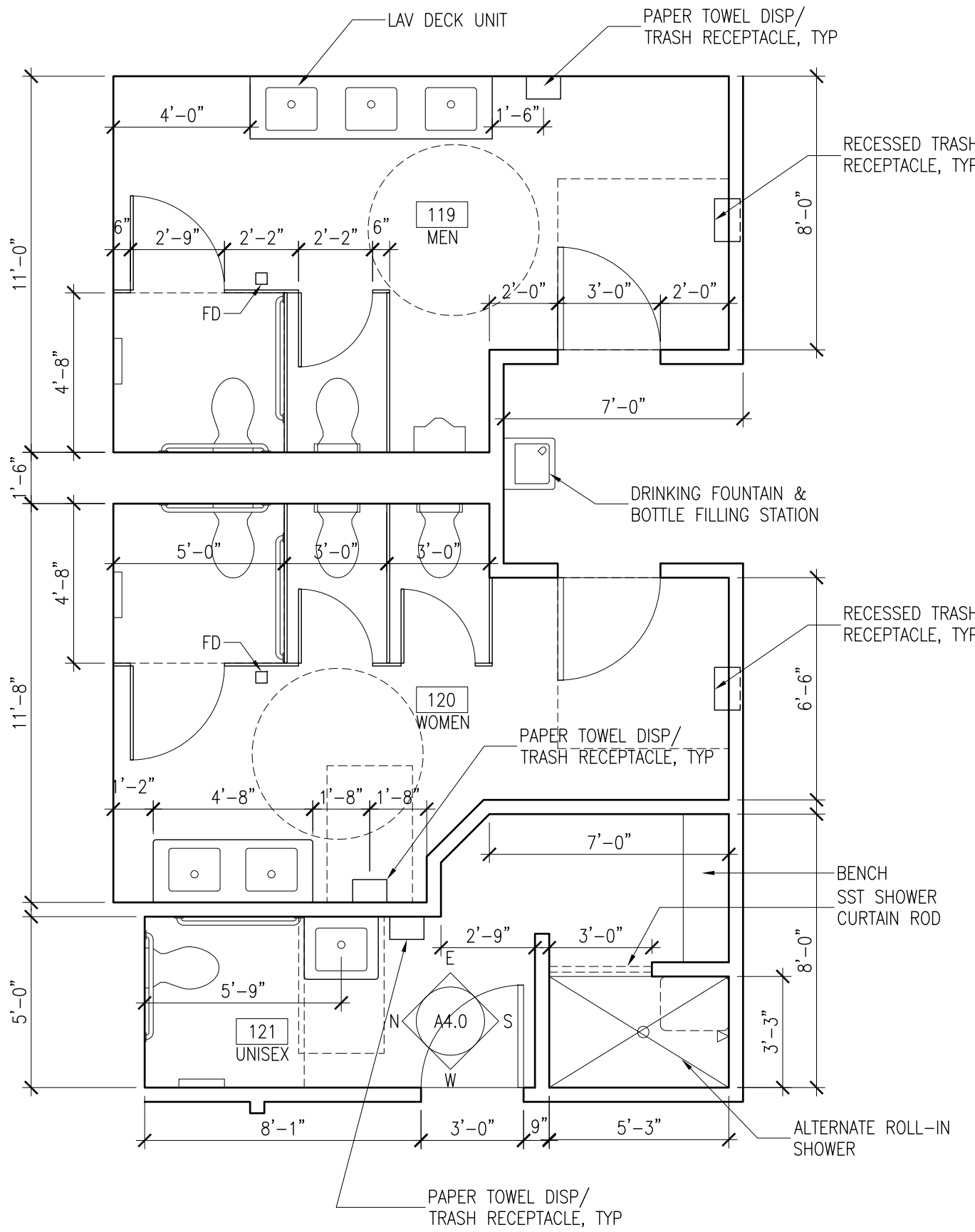


3 WALL DETAIL @ OFFICE AREA
1" = 1'-0"

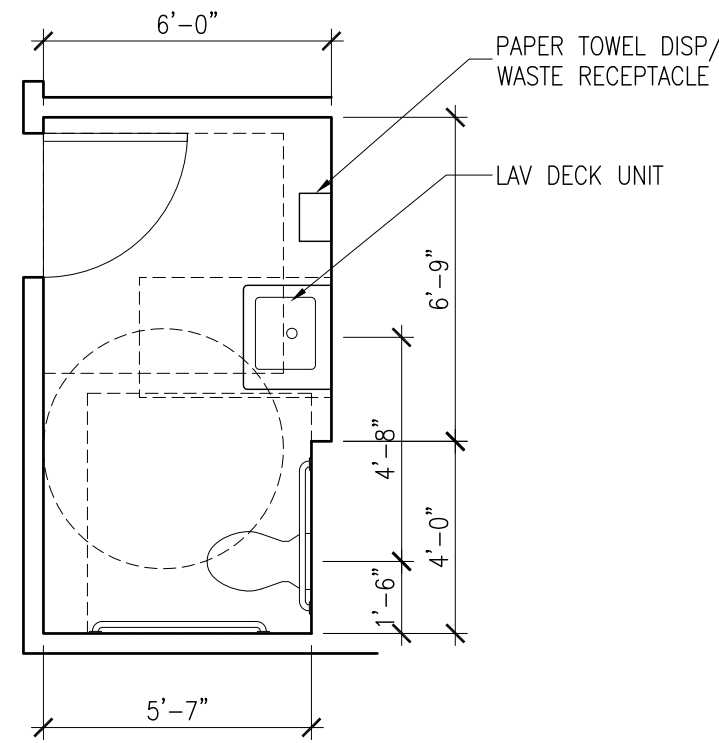
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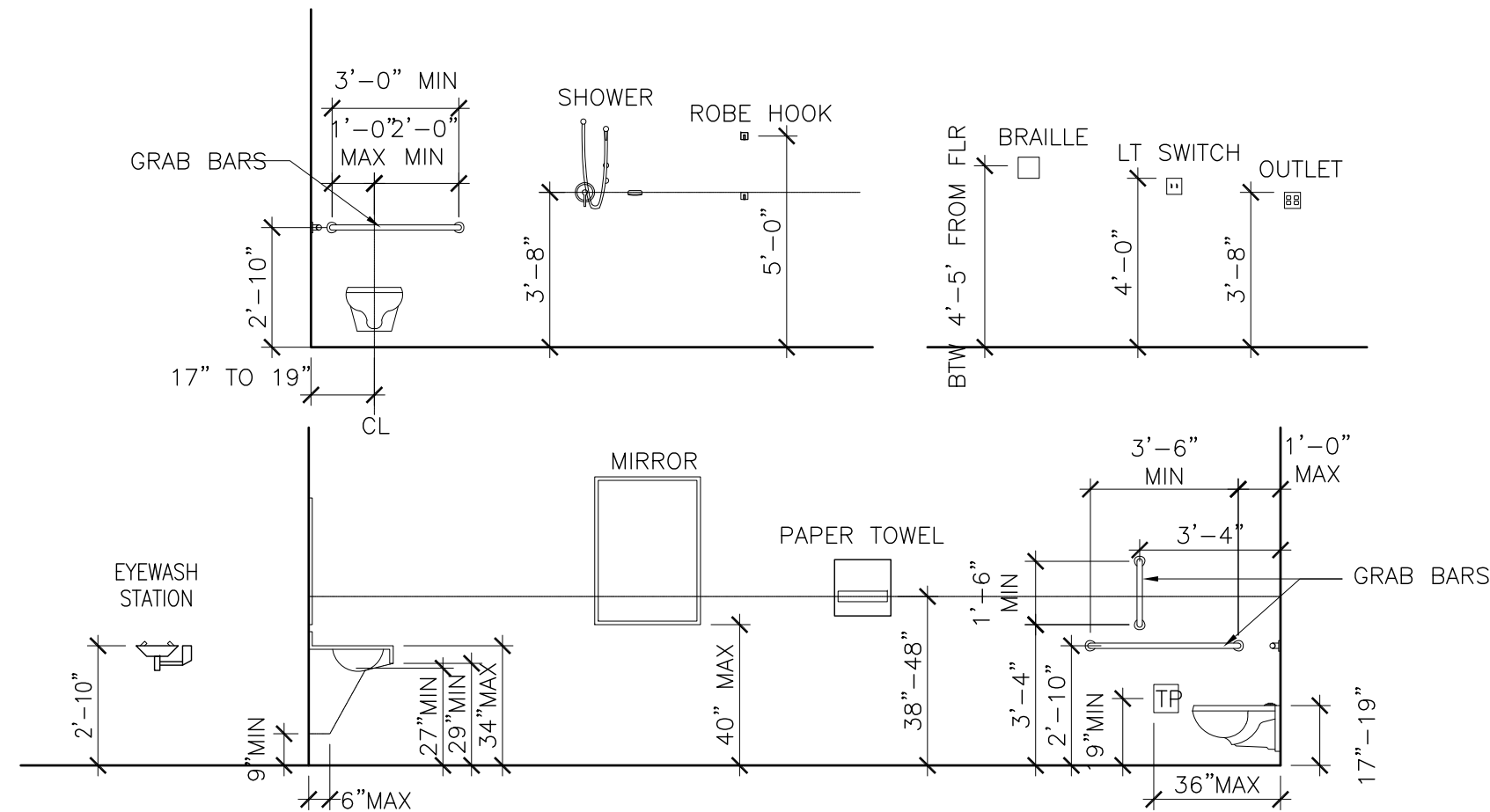
1 PLANS - RESTROOMS - 105, 106
1/4" = 1'-0"



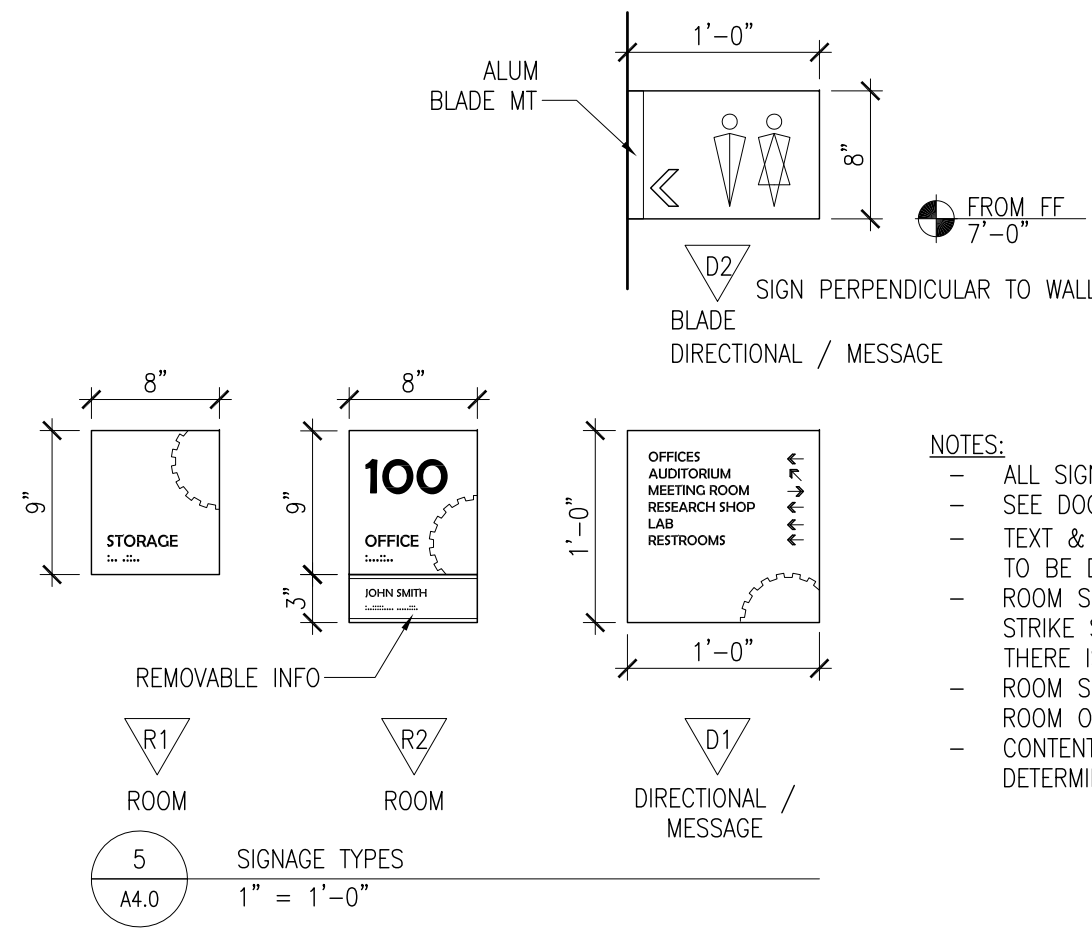
2 PLANS - STAFF RESTROOMS - 119, 120, 121
1/4" = 1'-0"



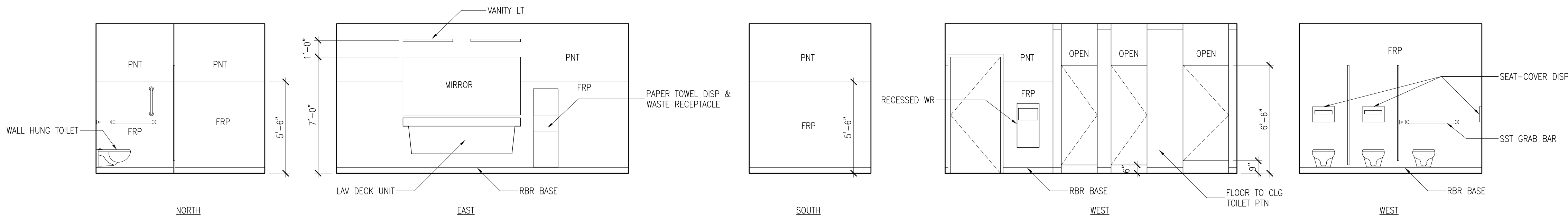
3 PLANS - RESTROOMS - 109
1/4" = 1'-0"



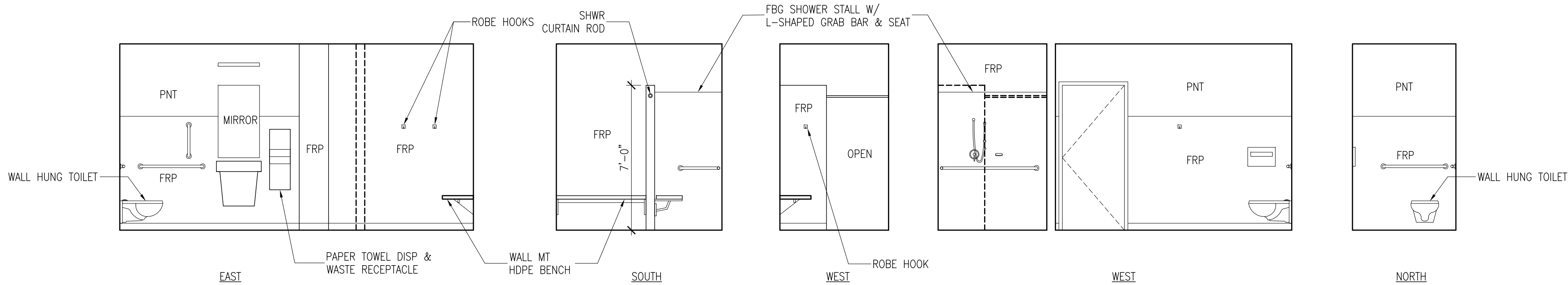
4 ACCESSIBLE MOUNTING HEIGHT DIAGRAM
1/4" = 1'-0"



- NOTES:
- ALL SIGNS TO MEET ADAAG SIGNAGE REQUIREMENTS
 - SEE DOOR SCHED FOR ROOM SIGN INFO
 - TEXT & GRAPHICS FOR DIRECTIONAL SIGNS (D) & MESSAGE SIGNS (M) TO BE DETERMINED BY ARCHITECT OR OWNER
 - ROOM SIGN TO BE PLACED ON THE WALL AND LOCATED ON DOOR STRIKE SIDE OR ON THE ONCOMING TRAFFIC SIDE OF THE OPENING IF THERE IS NO DOOR LEAF
 - ROOM SIGN TO BE PLACED ON DOOR ONLY IF THERE IS NOT ENOUGH ROOM ON THE WALL NEXT TO THE DOOR
 - CONTENTS OF DIRECTIONAL SIGNS AND MESSAGE SIGNS TO BE DETERMINED BY ARCHITECT OR OWNER



6 INT ELEVATIONS - WOMEN-105, MEN-106 (SIM), MEN-119 (SIM)
1/4" = 1'-0"



7 INT ELEVATIONS - UNISEX BATH 121
1/4" = 1'-0"

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SCALE: AS NOTED
DRAWN BY: KP
CHECKED BY: -
CAD FILE: 1503_INT_ELEVS
DATE: Sept 8, 2020

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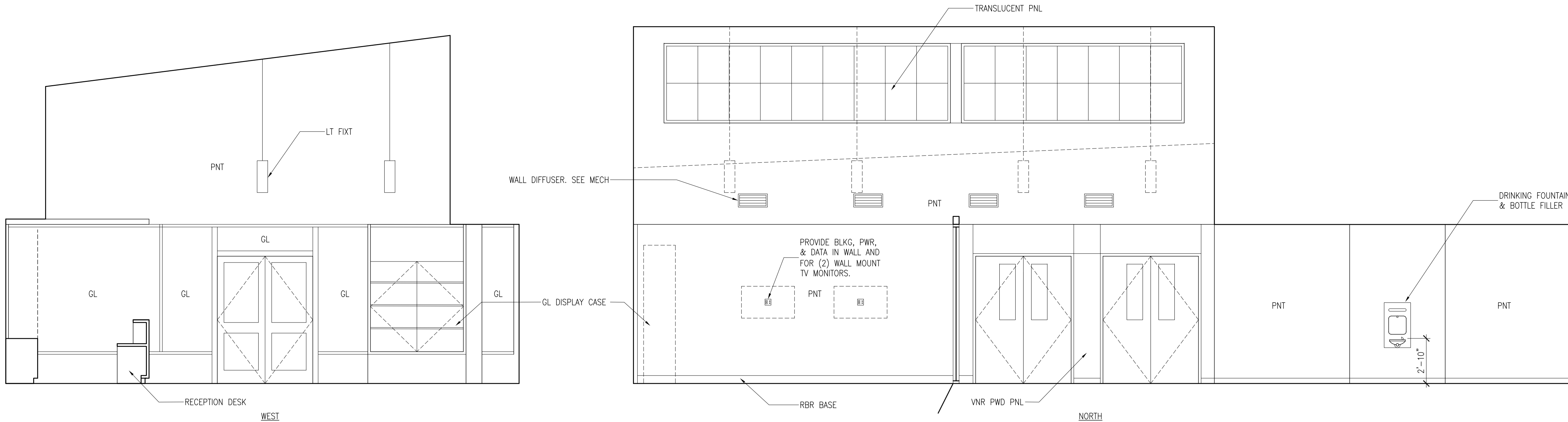
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ENLARGED PLANS
& ELEVATIONS

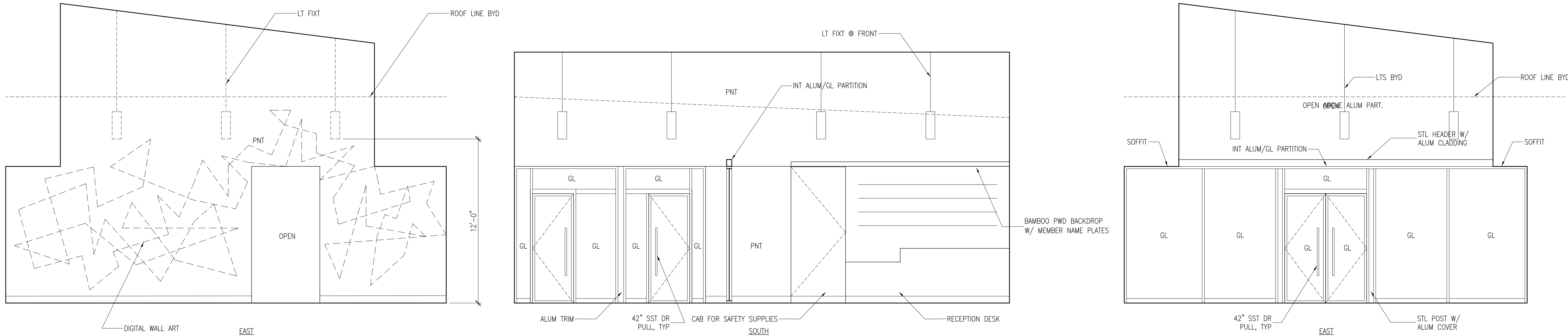
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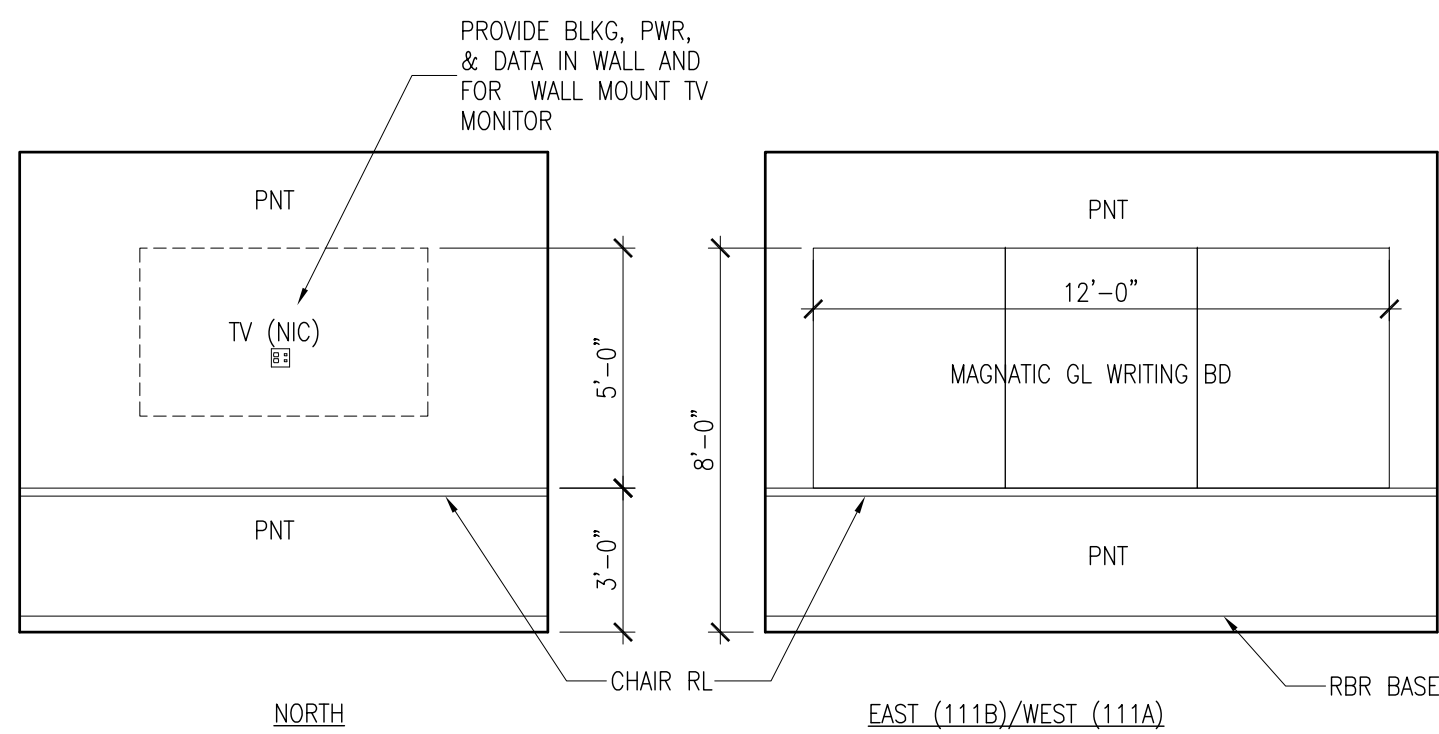
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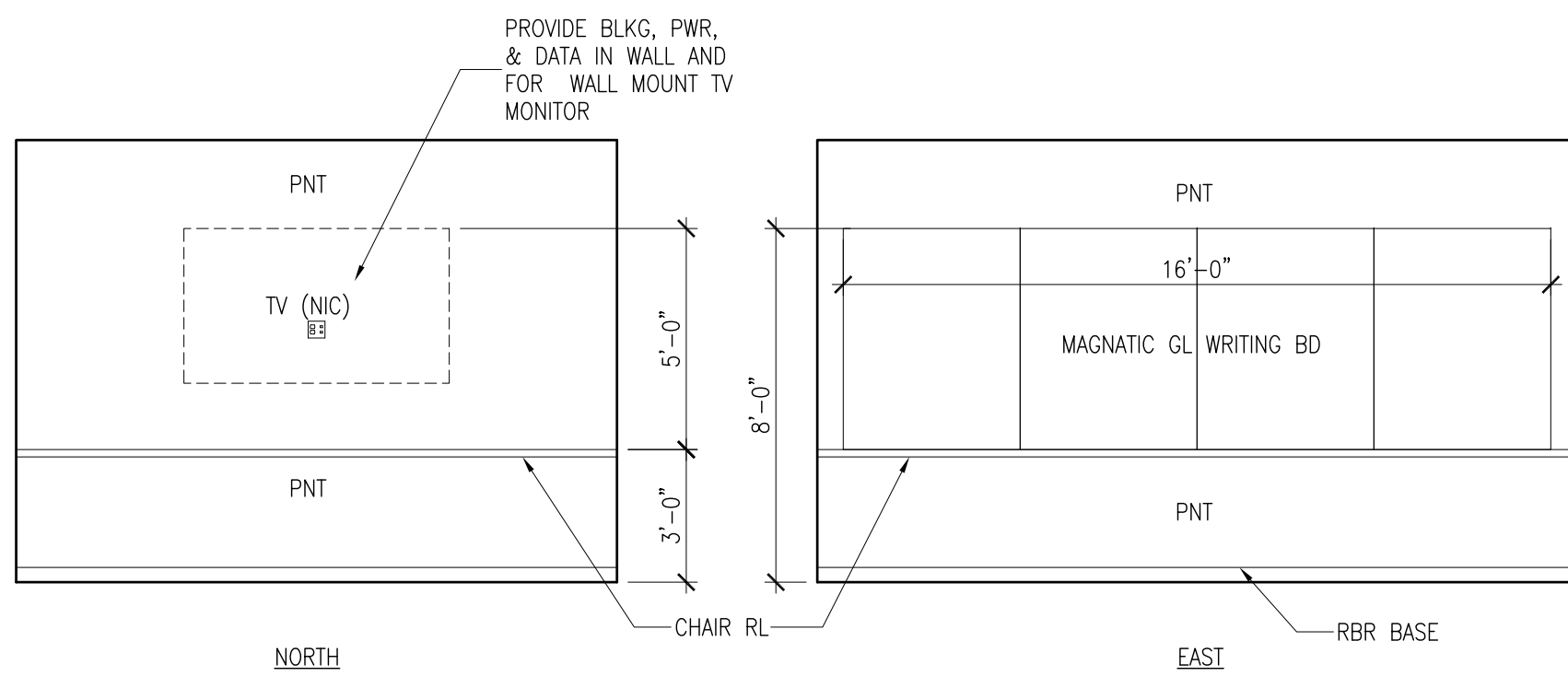
1
A4.1
INT ELEVATIONS - ENTRY/ HALL 101, 102
1/4" = 1'-0"



2
A4.1
INT ELEVATIONS - ENTRY/ HALL 101, 102
1/4" = 1'-0"



3
A4.1
INT ELEVATIONS - CONFERENCE 1,2-111A, 111B
1/4" = 1'-0"



4
A4.1
INT ELEVATIONS - CONFERENCE 3-113
1/4" = 1'-0"

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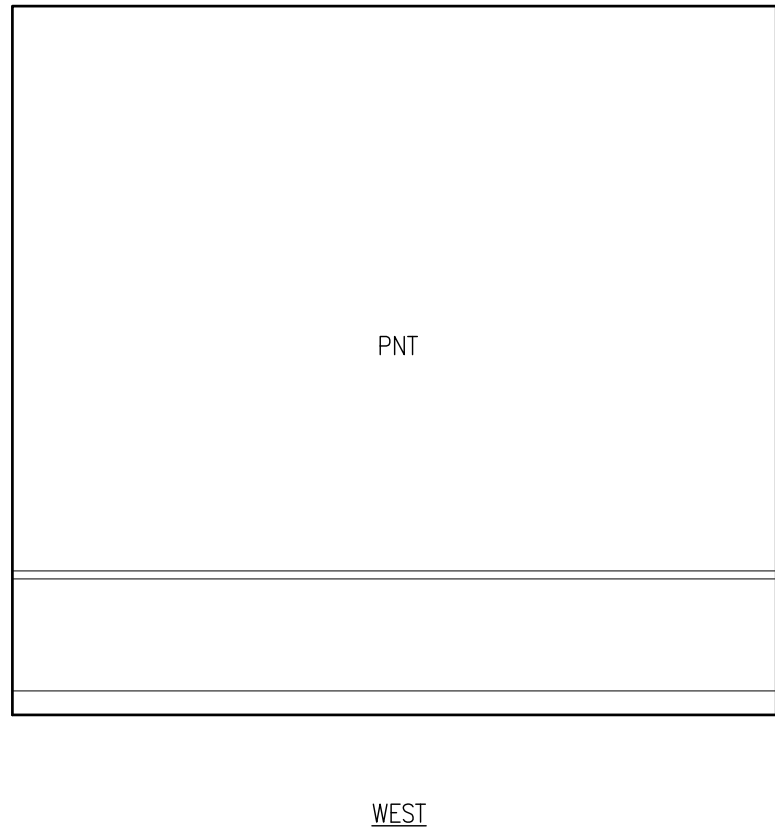
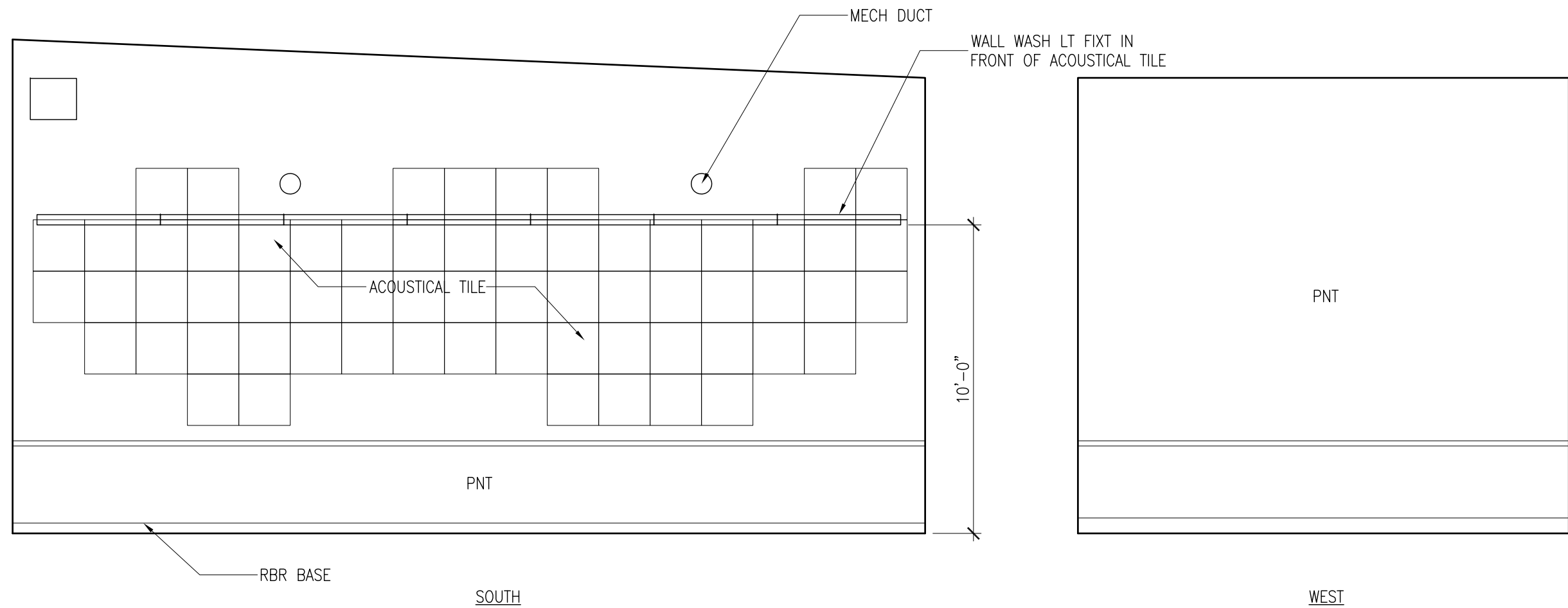
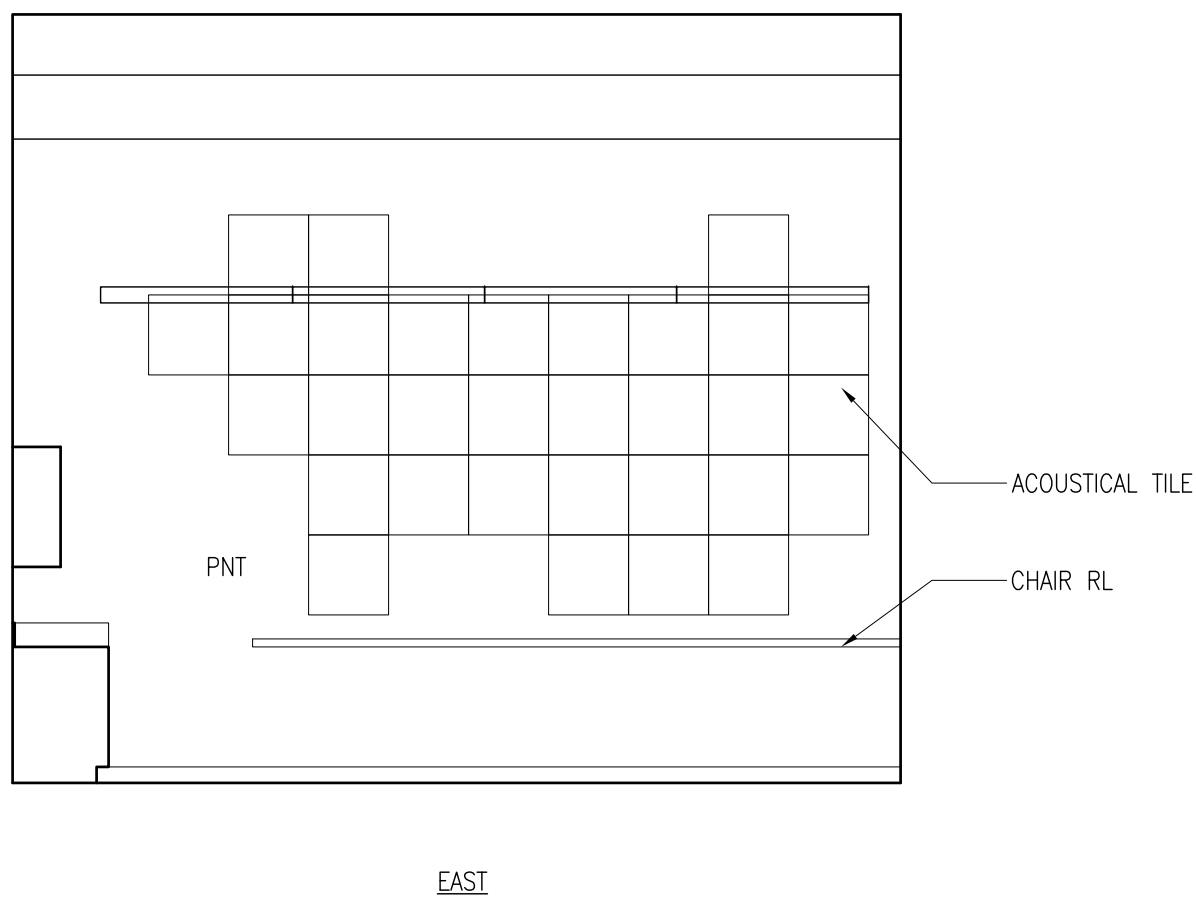
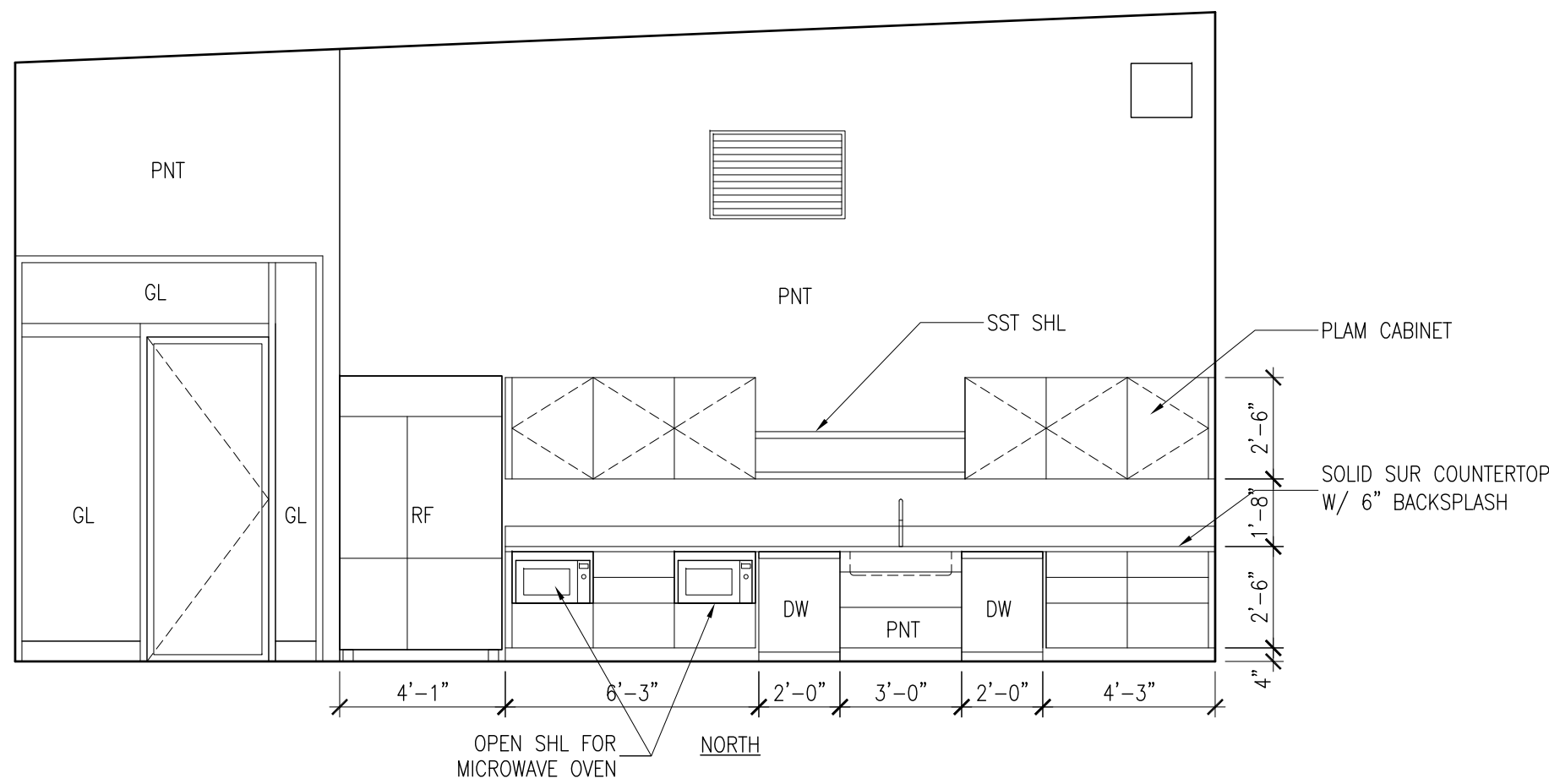
OMIC R&D - Building 2
Additive Manufacturing Center
33701 Charles T. Parker Way
Scappoose, Oregon 97056

SCALE: AS NOTED
DRAWN BY: KP
CHECKED BY: -
CAD FILE: -
DATE: Sept 8, 2020

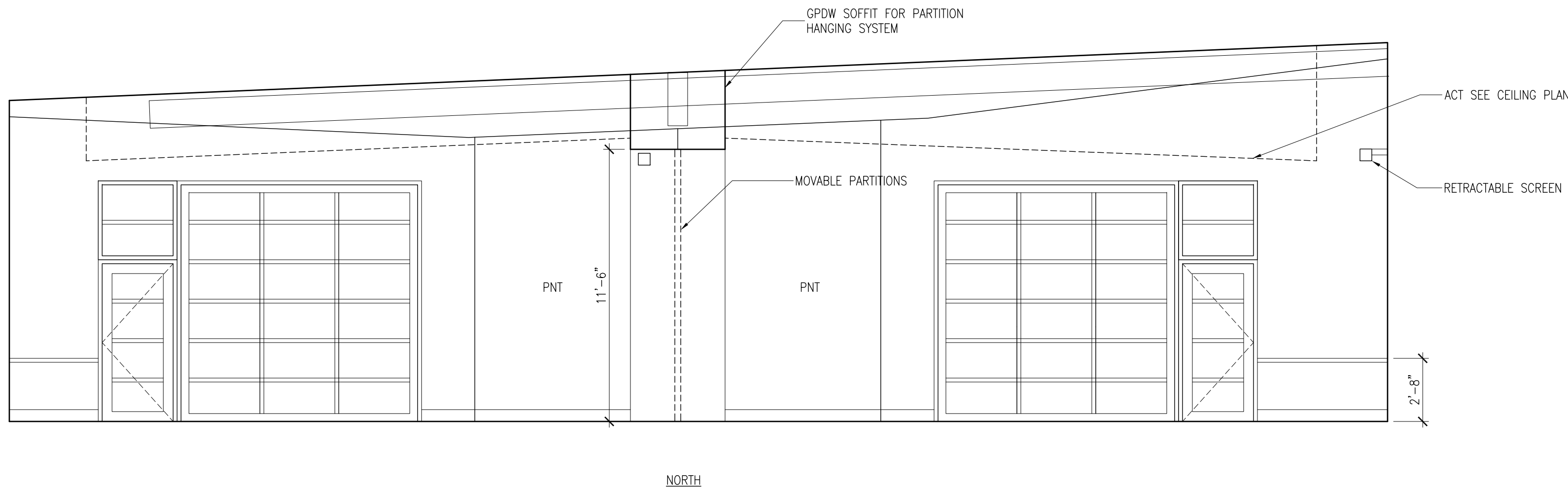
REVISIONS		
△	DATE	DESCRIPTION

CONTENTS:
INTERIOR ELEVATIONS

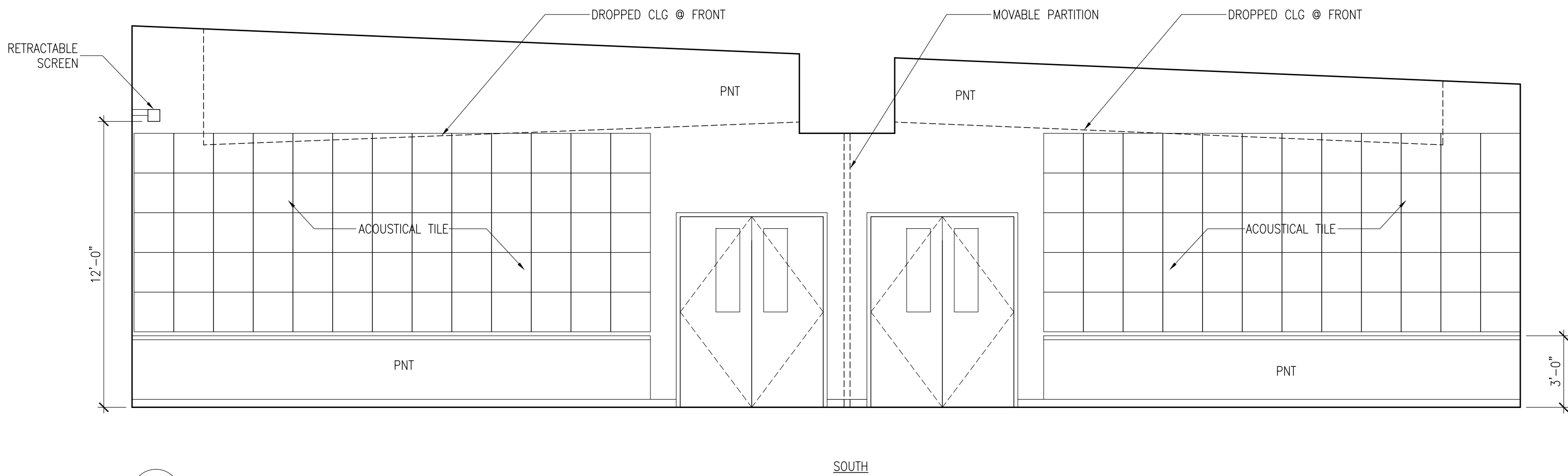
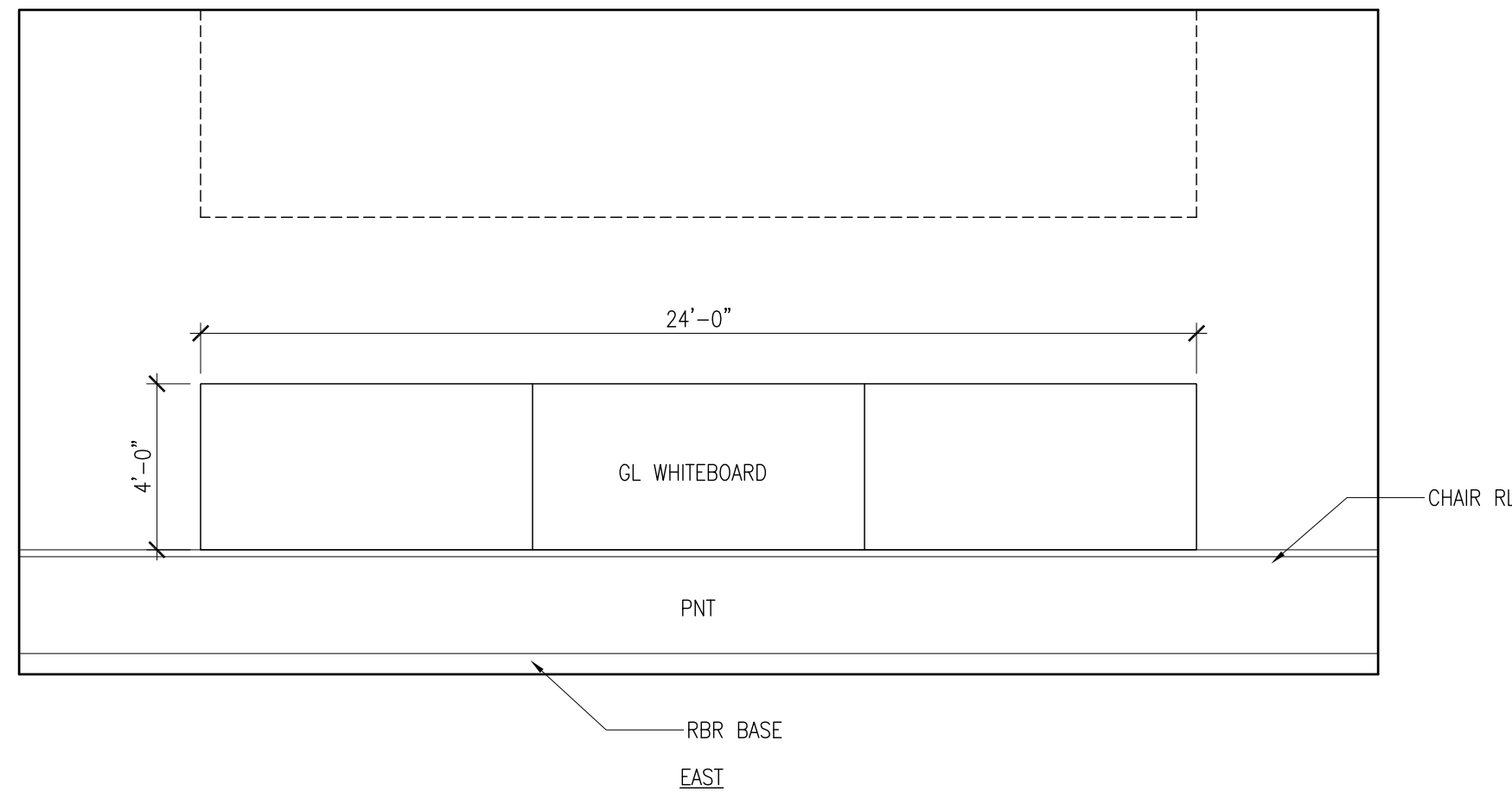
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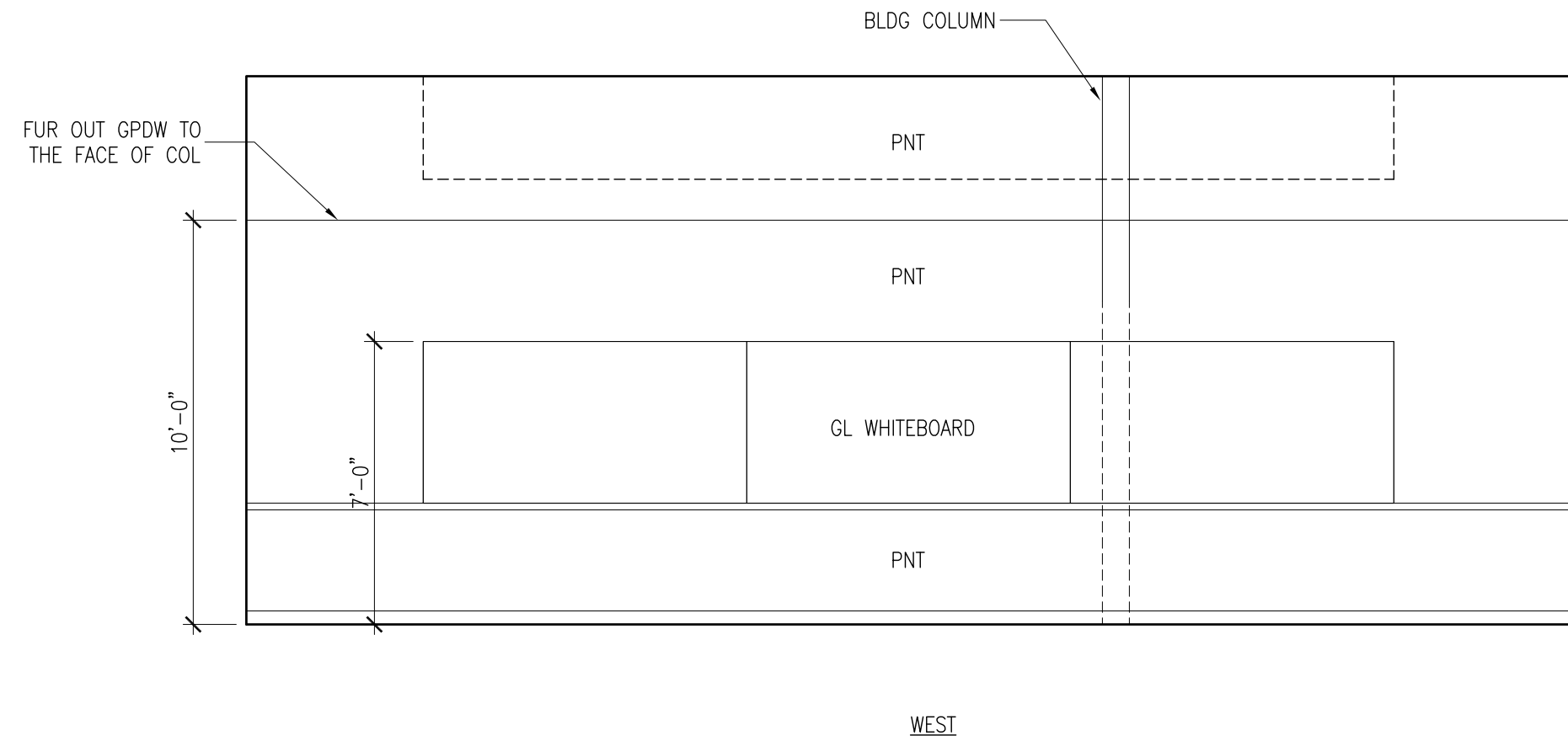
1 INT ELEVATIONS - LOUNGE / DINING
A4.2 1/4" = 1'-0"



2 INT ELEVATIONS - MULTI PURPOSE 1, 2
A4.2 1/4" = 1'-0"



3 INT ELEVATIONS - MULTI PURPOSE 1, 2
A4.2 1/4" = 1'-0"



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REGISTERED ARCHITECT
WILLIAM ALLAN
PETERSEN
ST. HELENS, OREGON
STATE OF OREGON

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CONTENTS:

INTERIOR ELEVATIONS

SHEET NO:

PERMIT SET

A4.2

CIVIL ENGINEER:
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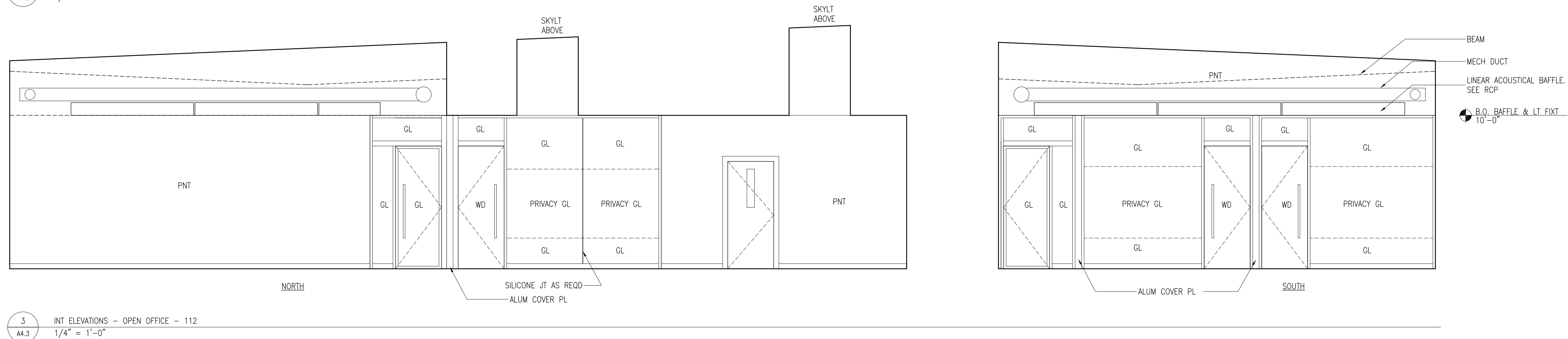
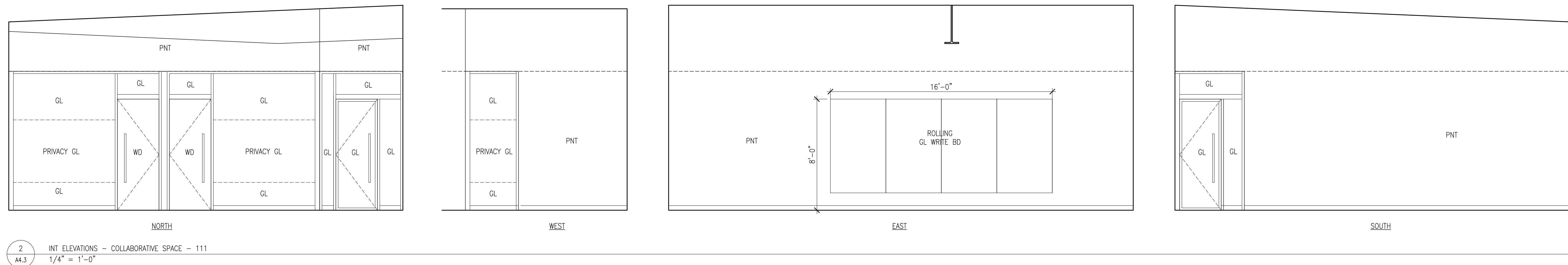
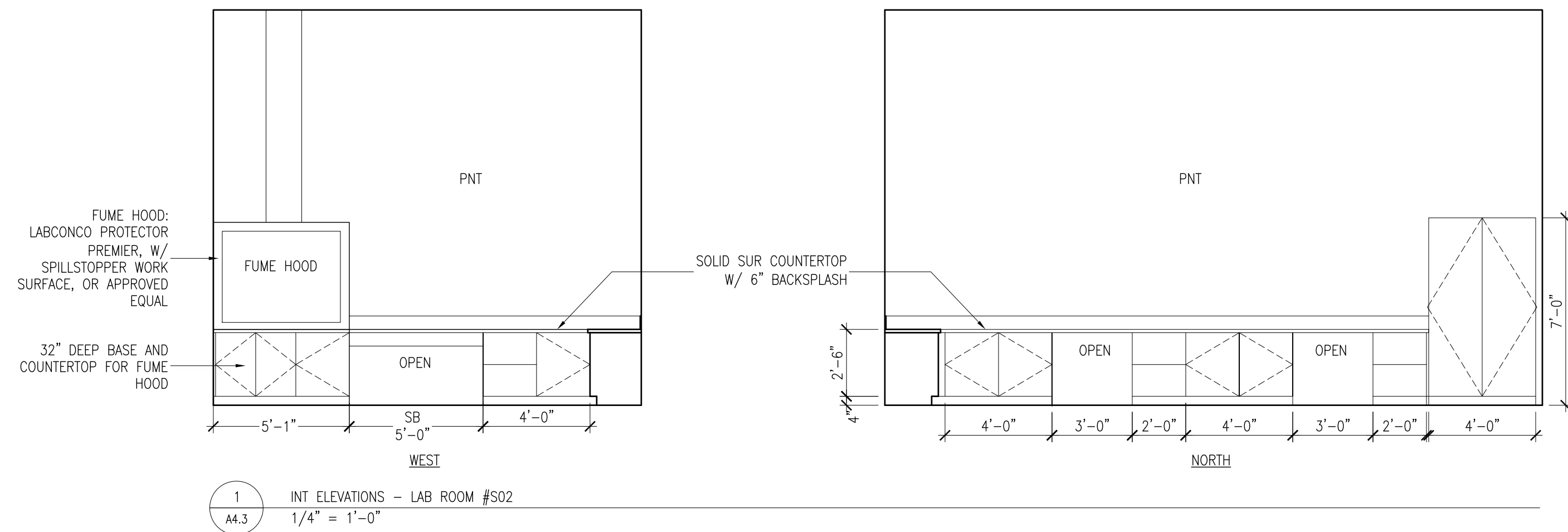
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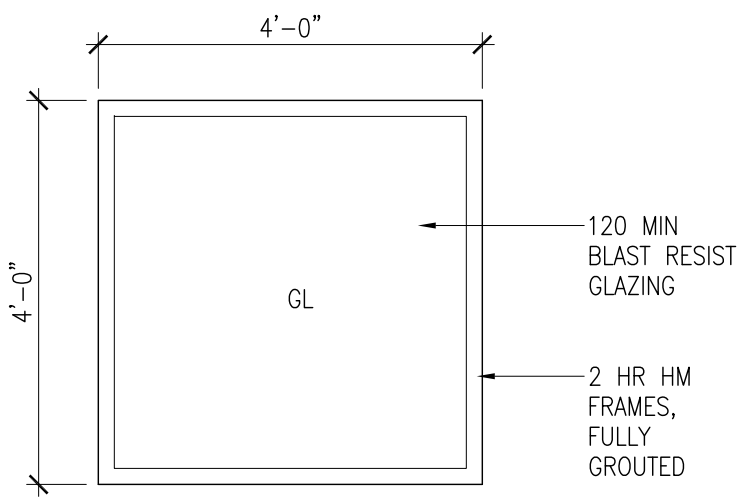
INTERIOR ELEVATIONS

SHEET NO:

A4.3

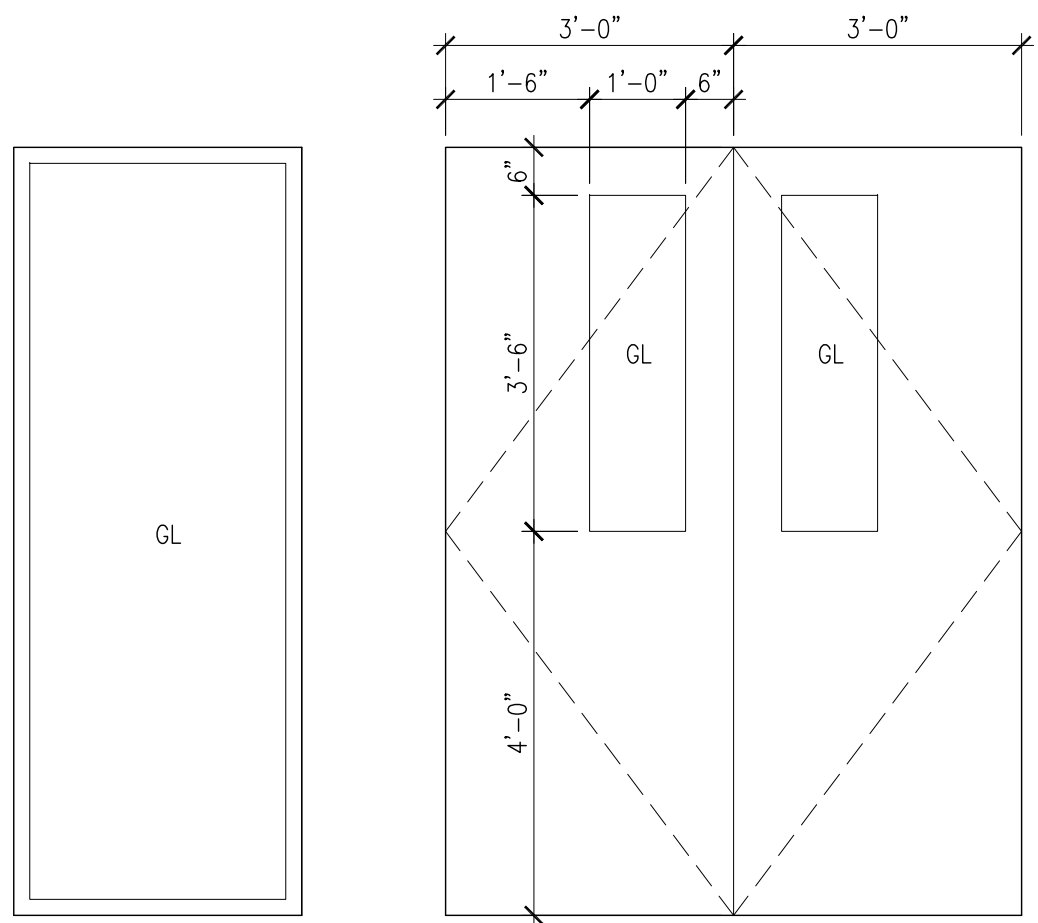
PERMIT SET



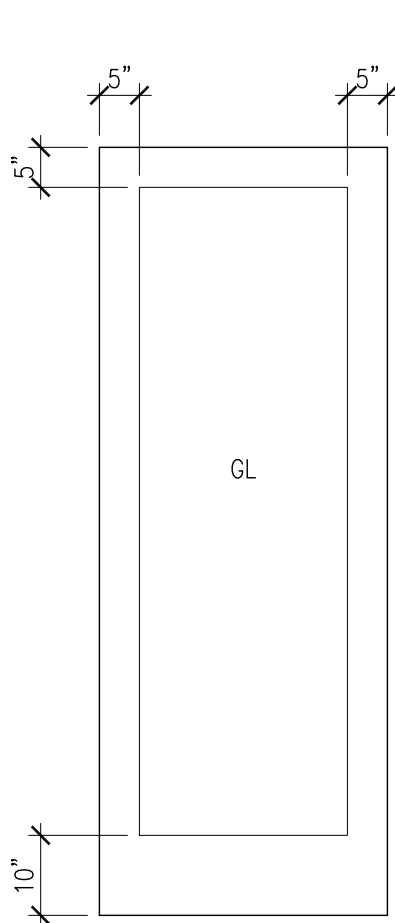


2 WINDOW TYPE - INTERIOR
A5.0 1/2" = 1'-0"

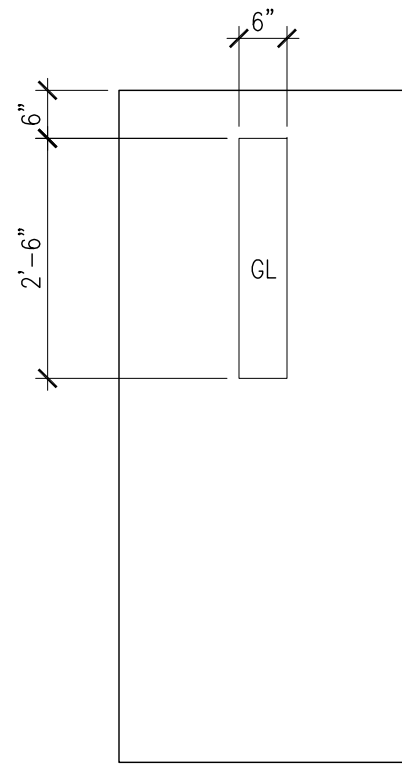
- NOTES:
- FOR INTERIOR ALUM STOREFRONT SYSTEMS SEE INTERIOR ELEVATIONS.
 - FOR EXTERIOR STOREFRONT, EXPLOSION VENTS, AND TRANSLUCENT WALL PANELS SEE EXTERIOR ELEVATIONS.



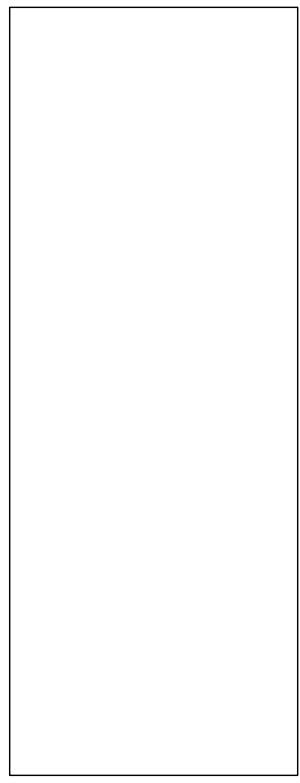
2 DOOR TYPE - INTERIOR
A5.0 1/2" = 1'-0"



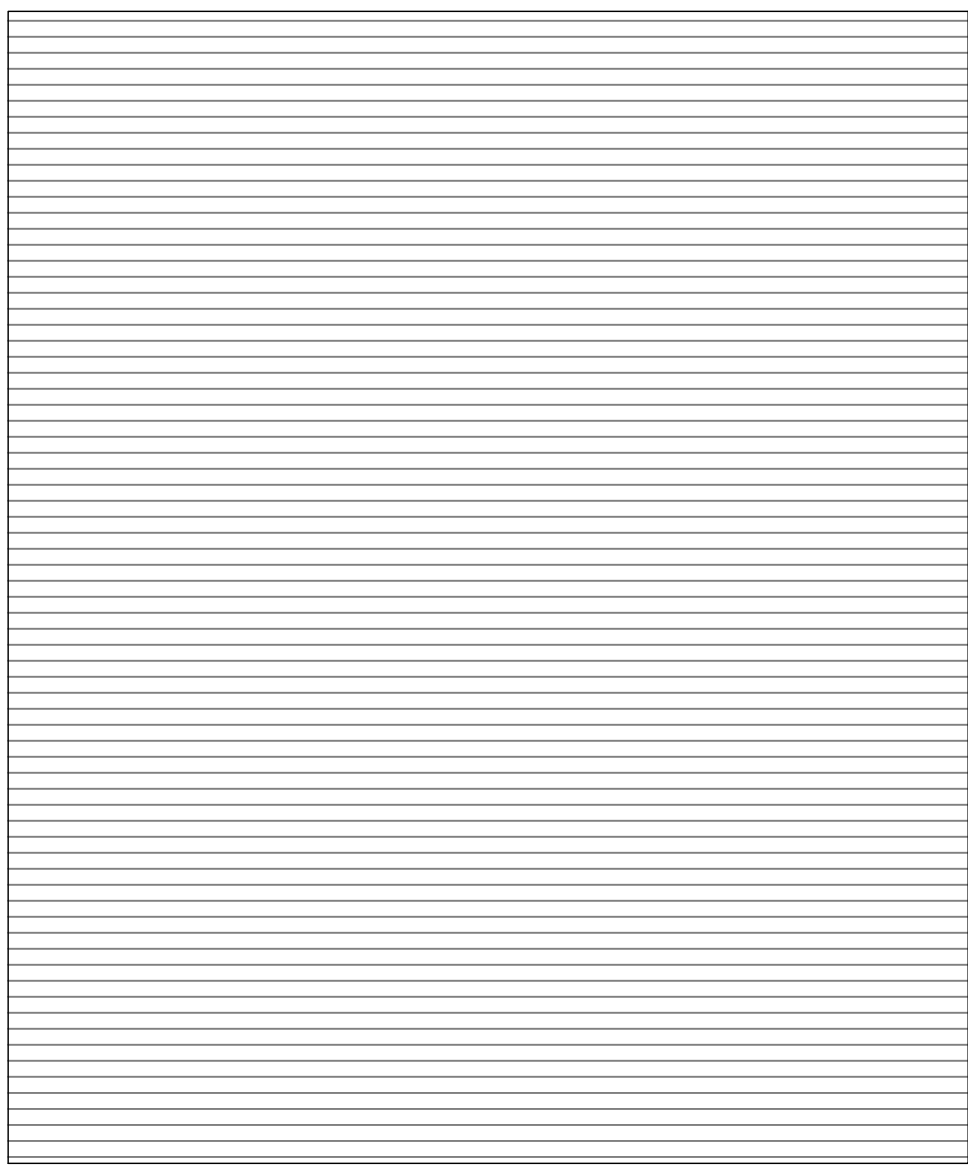
J



K

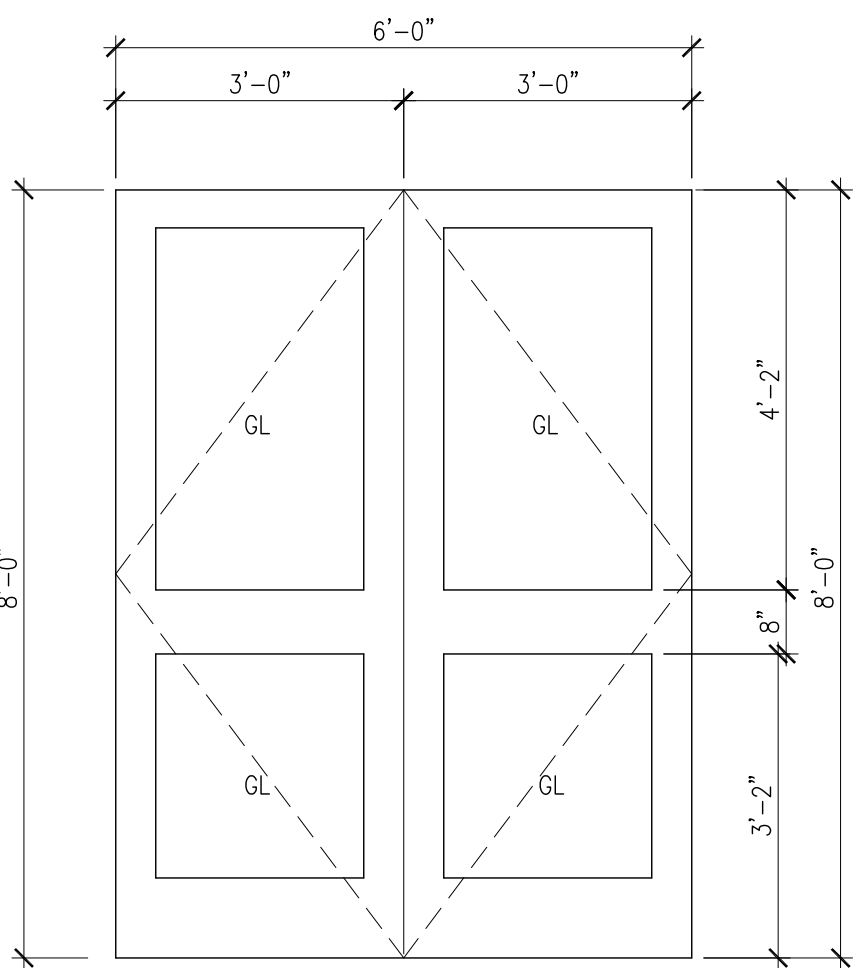


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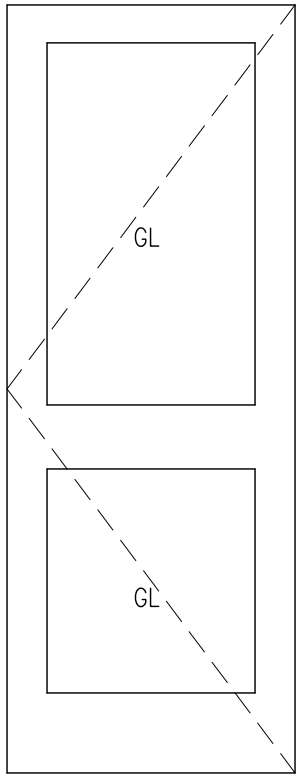


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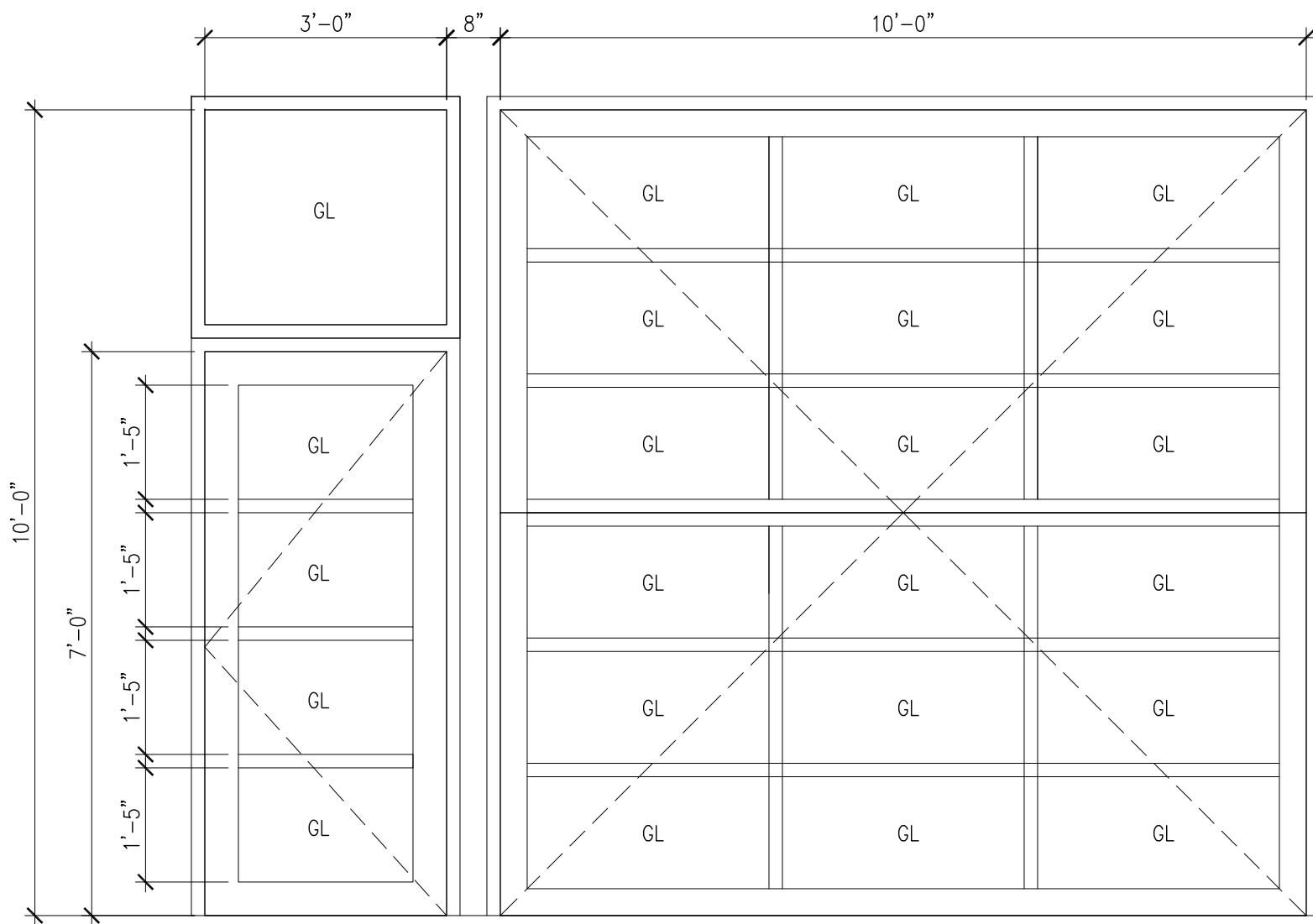
N OH COILING DOOR



ALUM DOOR @ STOREFRONT



B

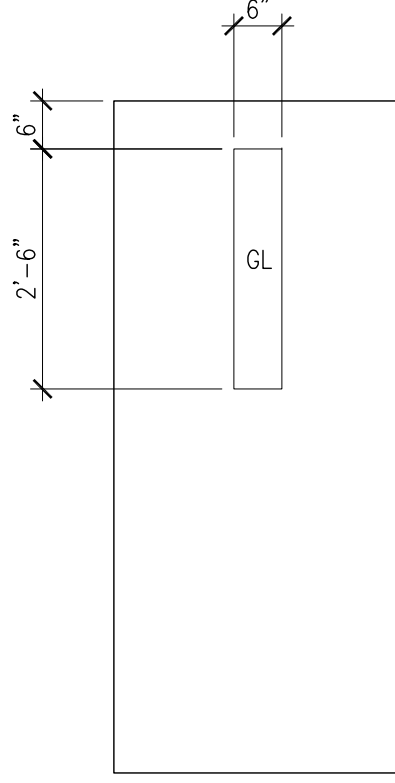


ALUM DOOR W/ OBSCURED LITE

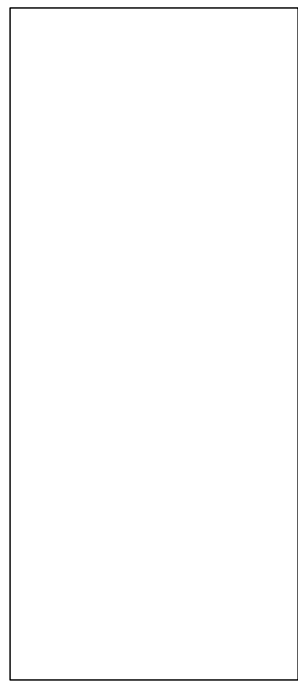
C

OVERHEAD BI-FOLD DOOR
W/ OBSCURED LITE

D



E



F



INSULATED SECTIONAL OH DOOR

G

1 DOOR TYPE - EXTERIOR
A5.0 1/2" = 1'-0"

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REVISIONS	
△	DESCRIPTION

CONTENTS:

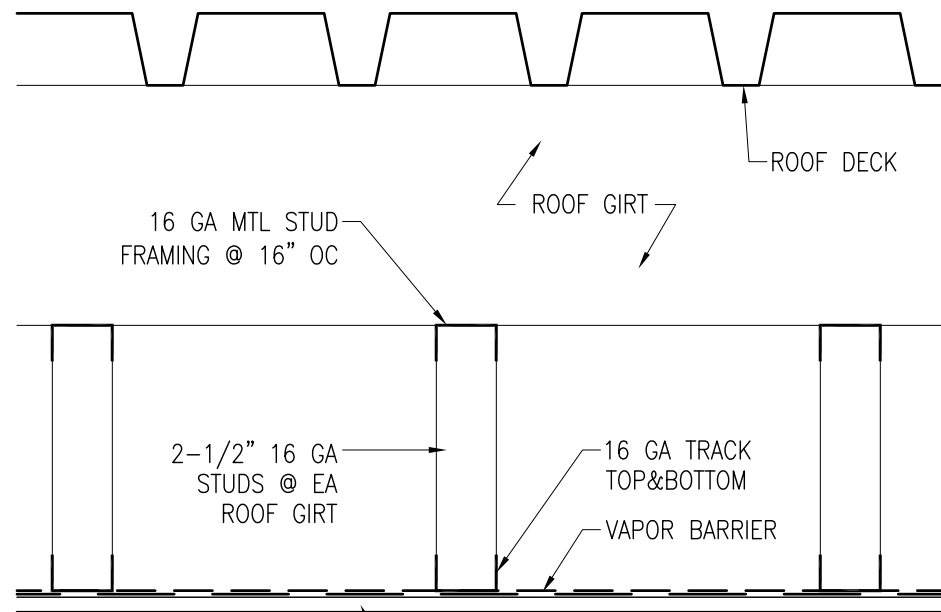
DOOR & WINDOW TYPES
& DETAILS

SHEET NO:

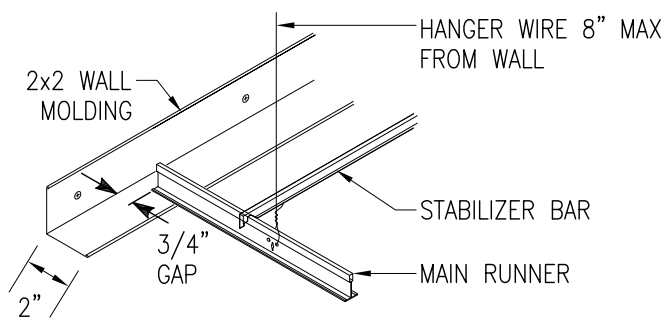
A5.0

PERMIT SET

101 ST HELENS ST
ST HELENS, OR 97051
T: 503.366.3050 F: 503.366.3055



4
A5.1
TYPICAL POWDERED METAL ROOM CEILING
1-1/2" = 1'-0"



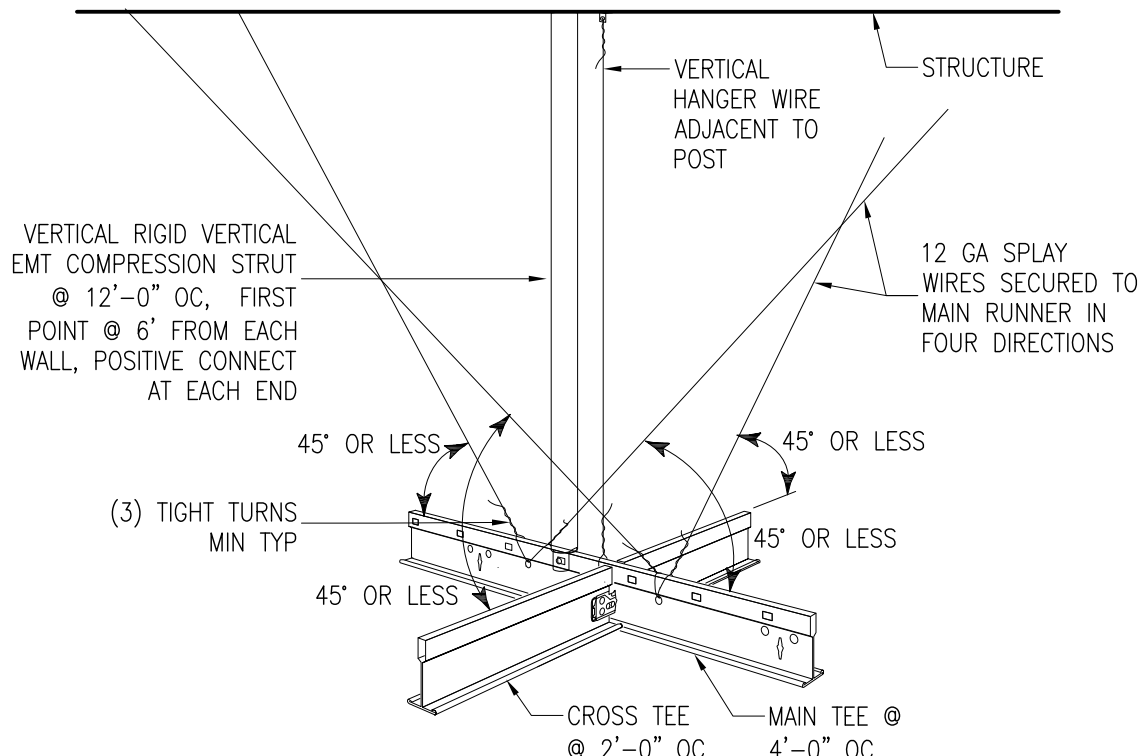
WALL MOLDINGS SHALL HAVE A 2" PERIMETER HORIZONTAL FLANGE. ONE END OF MAIN BEAMS AND CROSS RUNNERS SHALL BE ATTACHED TO THE WALL MOLDINGS W/ POP RIVETS ON TWO ADJACENT SIDES. THE OTHER END SHALL BE UNATTACHED AND PROVIDE A 3/4" GAP AT WALL.

INITIAL HANGER WIRES SHALL BE A MAXIMUM OF 8" FROM WALLS ON MAIN RUNNERS.

STABILIZER BARS SHALL BE PROVIDED AT UNATTACHED ENDS OF MAIN RUNNERS AND CROSS RUNNERS TO PREVENT SPREADING DURING SEISMIC EVENT.

SEE FIELD TECHNICAL INFORMATION #401 ISSUED BY THE STATE OF OREGON 1/07 FOR DETAILED INFORMATION REGARDING SUSPENSION SYSTEMS FOR ACOUSTICAL LAY-IN CEILINGS.

3
A5.1
ACT CEILING PERIMETER ATTACHMENT
1-1/2" = 1'-0"



NOTES:

METAL SUSPENSION SYSTEM FOR ACOUSTICAL TILE AND FOR LAY IN PANEL CEILINGS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE BUILDING CODE (LATEST EDITION)

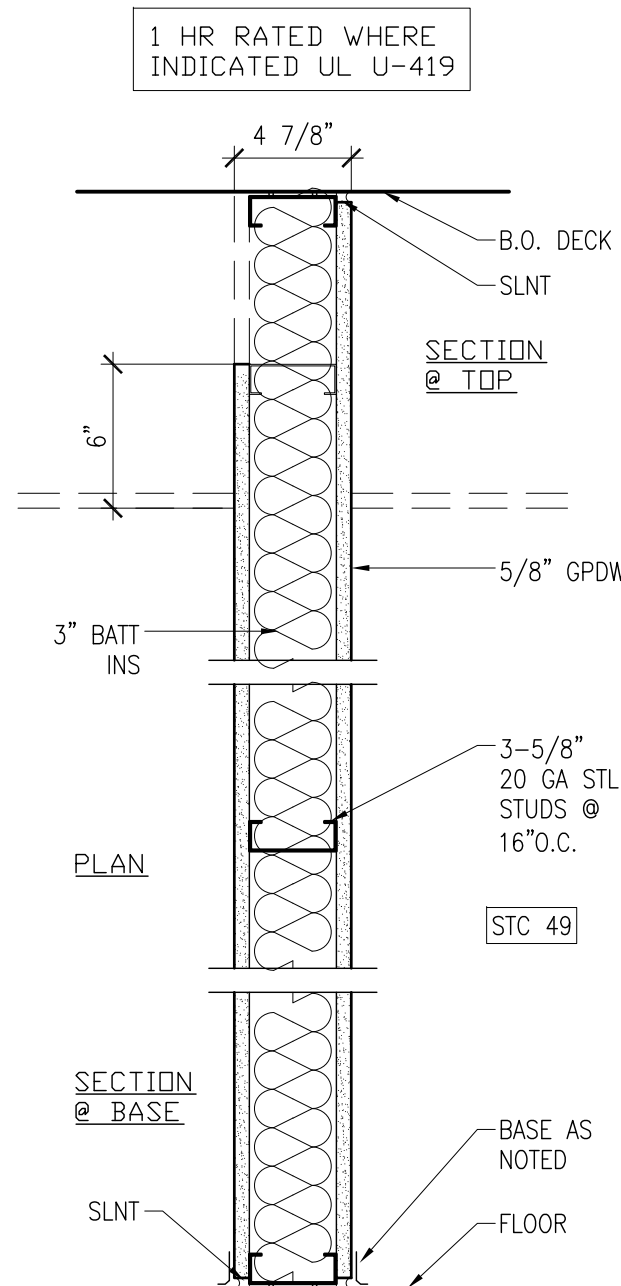
HANGERS FOR SUSPENDED CEILING SHALL NOT BE LESS THAN THE SIZES SET FORTH IN THE LATEST EDITION OF THE I.B.C. TABLE 25, FASTENED TO OR EMBEDDED IN THE STRUCTURAL FRAMING, MASONRY, OR CONCRETE.

HANGERS SHALL BE SADDLE-TIED AROUND MAIN RUNNERS TO DEVELOP THE FULL STRENGTH OF THE HANGERS. LOWER ENDS OF FLAT HANGERS SHALL BE BOLTED WITH 3/8" BOLTS TO RUNNER CHANNELS OR BENT TIGHTLY AROUND THE RUNNERS AND BOLTED TO THE MAIN PART OF THE HANGER.

VERTICAL STRUTS SHALL BE A MAXIMUM OF 12' O.C.

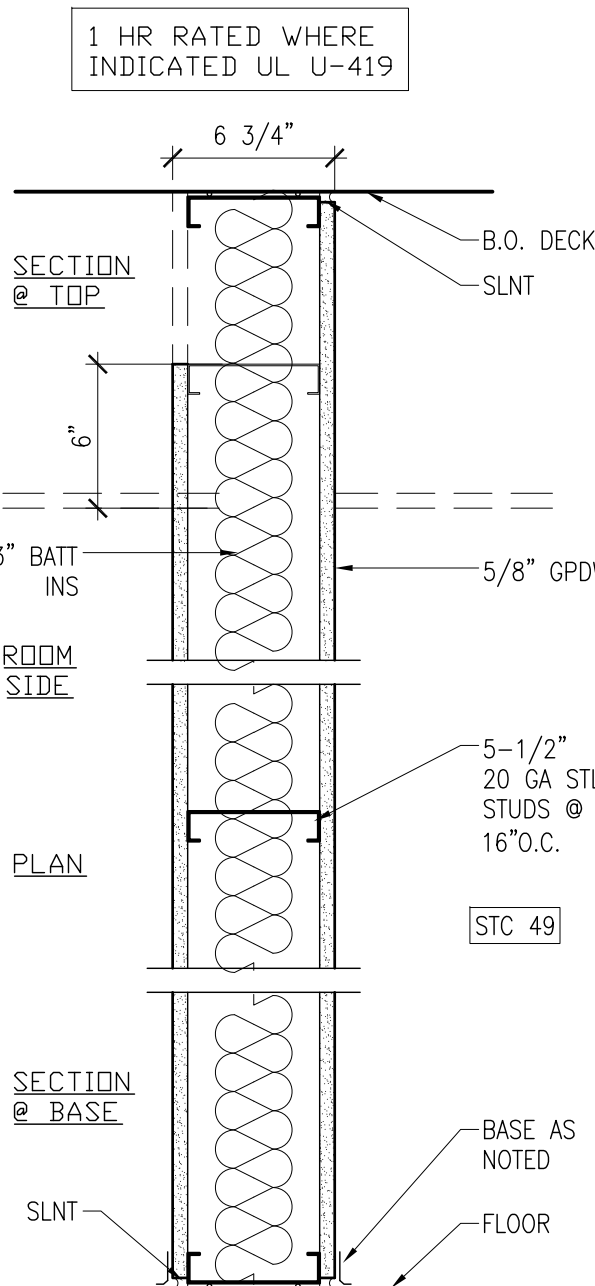
IN ROOMS SMALLER THAN 144 SQ FT WHERE WALLS ARE LATERALLY BRACED TO STRUCTURE STRUTS AND SPLAY WIRES ARE NOT REQUIRED.

2
A5.1
ACT CEILING BRACING
1-1/2" = 1'-0"



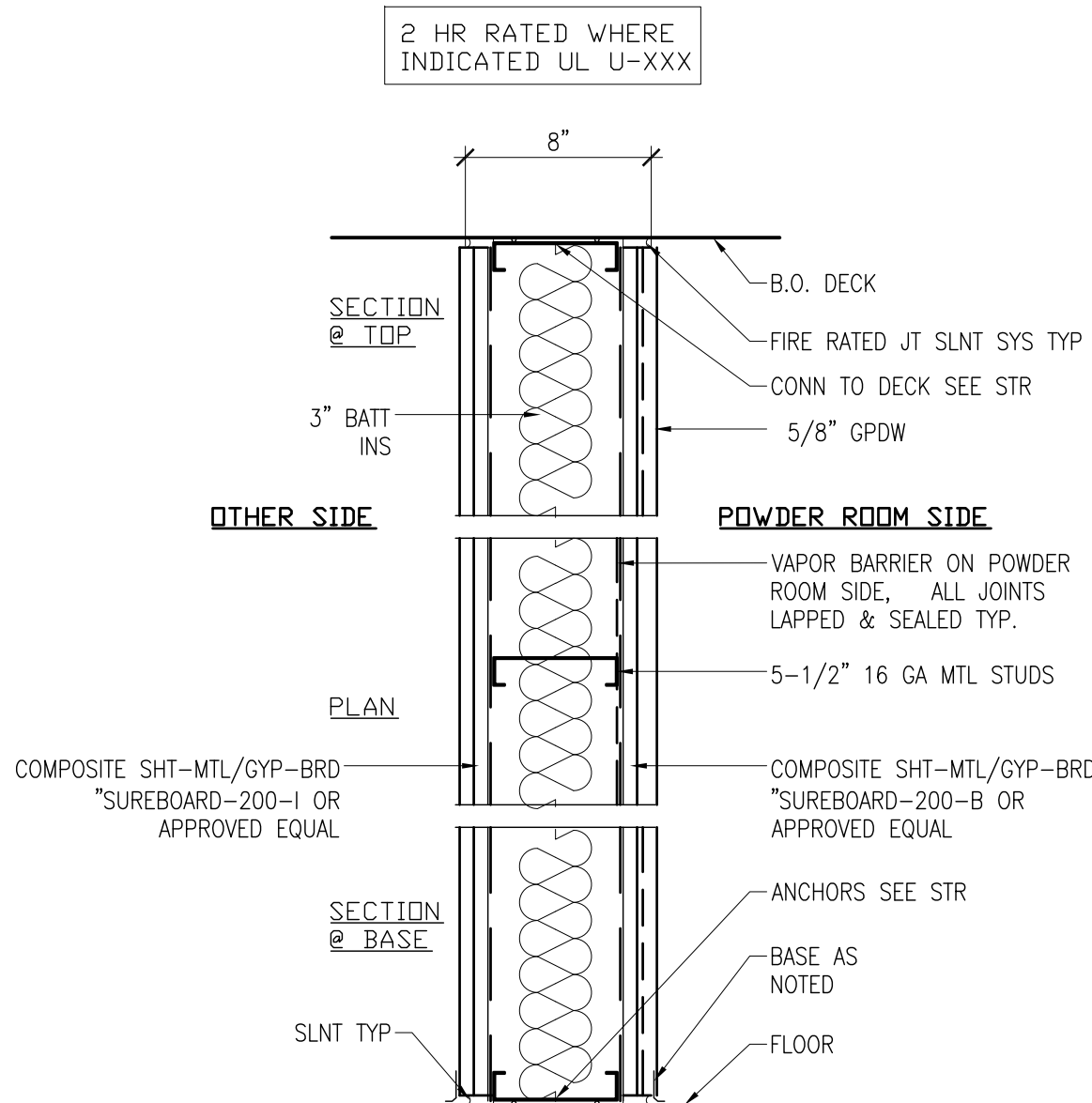
A. PARTITIONS (3-5/8 FRAMING)

- 1
A5.1
PARTITION TYPES
1-1/2" = 1'-0"
- A1 WALL TO UNDERSIDE OF DECK SINGLE LAYER GPDW (BOTH SIDES) W/ BATT INS
 - A2 SAME AS A1 - NO BATT INS
 - A3 GPDW TO 6' ABOVE CEILING ONE SIDE
 - A4 WALL FRAMING TO 6' ABOVE CEILING, SINGLE LAYER GPDW BOTH SIDES BRACE TO STRUCTURE AS REQD



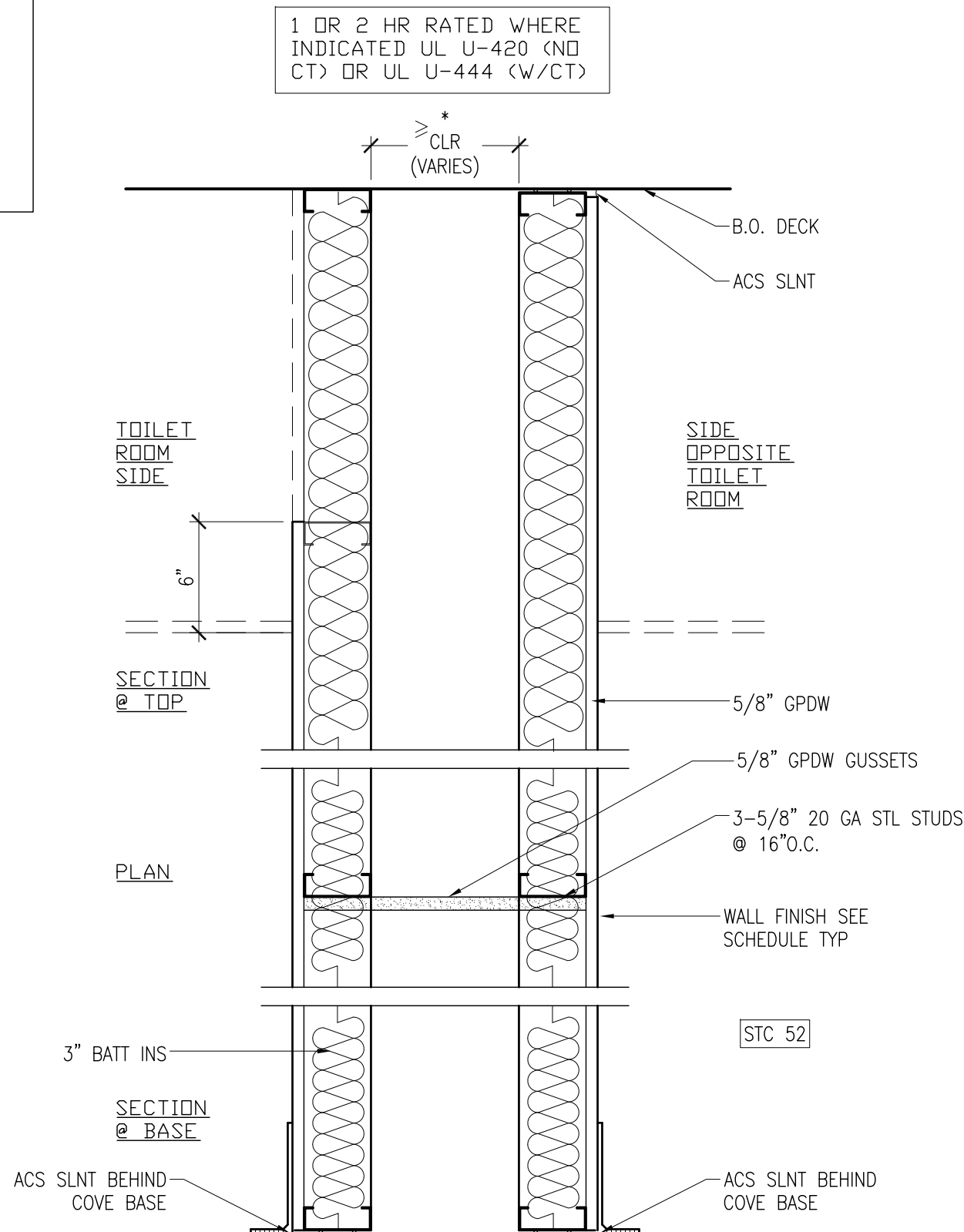
B. PARTITIONS

- B1 SINGLE LAYER GPDW (BOTH SIDES)
- B2 SAME AS B1 - NO BATT INS
- B3 GPDW TO 6' ABOVE CEILING ONE SIDE
- B4 WALL FRAMING TO 6' ABOVE CEILING, SINGLE LAYER GPDW BOTH SIDES BRACE TO STRUCTURE AS REQD



C. BLAST RESISTANT 2-HR PARTITION

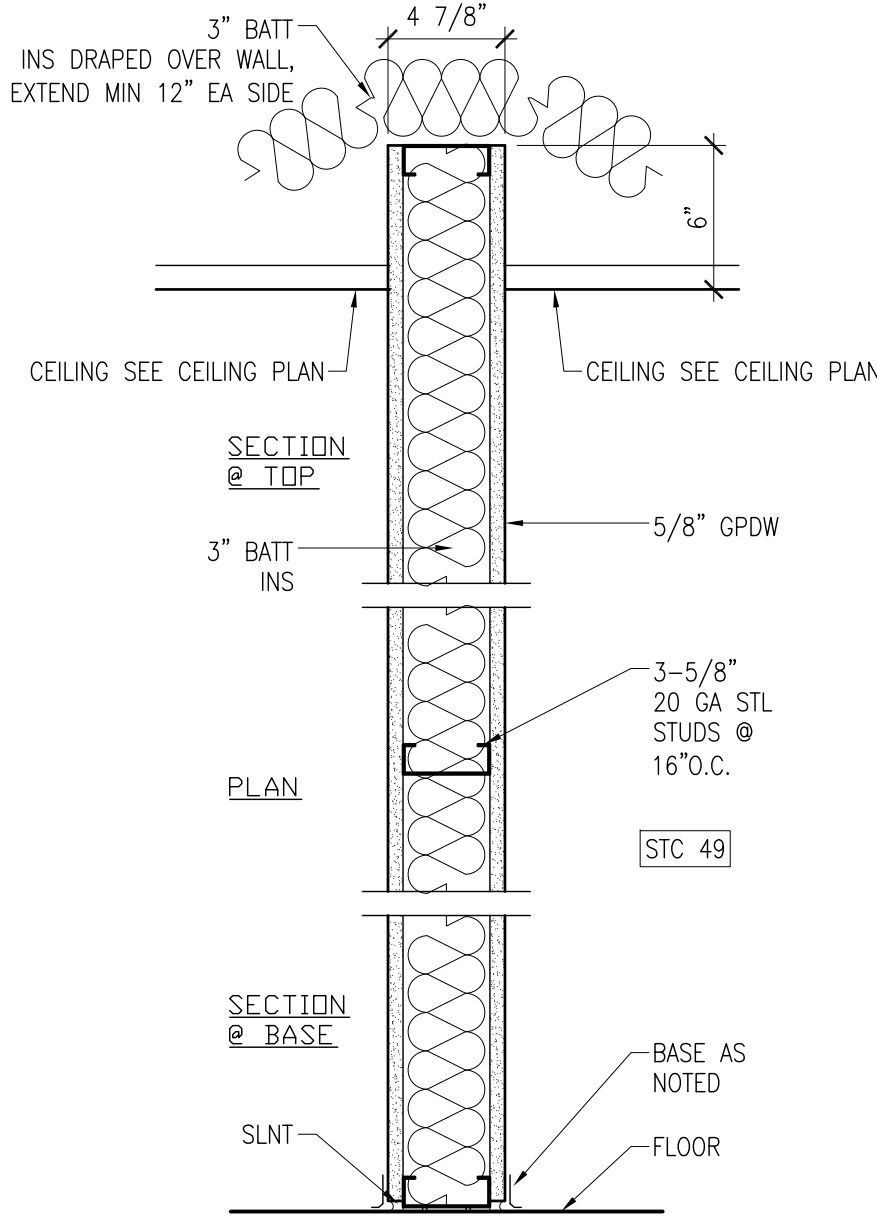
- C1 POWDER RDM SIDE: 1 LAYER "SUREBOARD"-1" & 1 LAYER GPDW OTHER SIDE: 1 LAYER "SUREBOARD"-1" & 1 LAYER GPDW
- C2 SAME CONSTRUCTION BUT NOT FIRE RATED, JOINT SEALANT NOT REQUIRED TO BE FIRE RATED



D. CHASE PIT

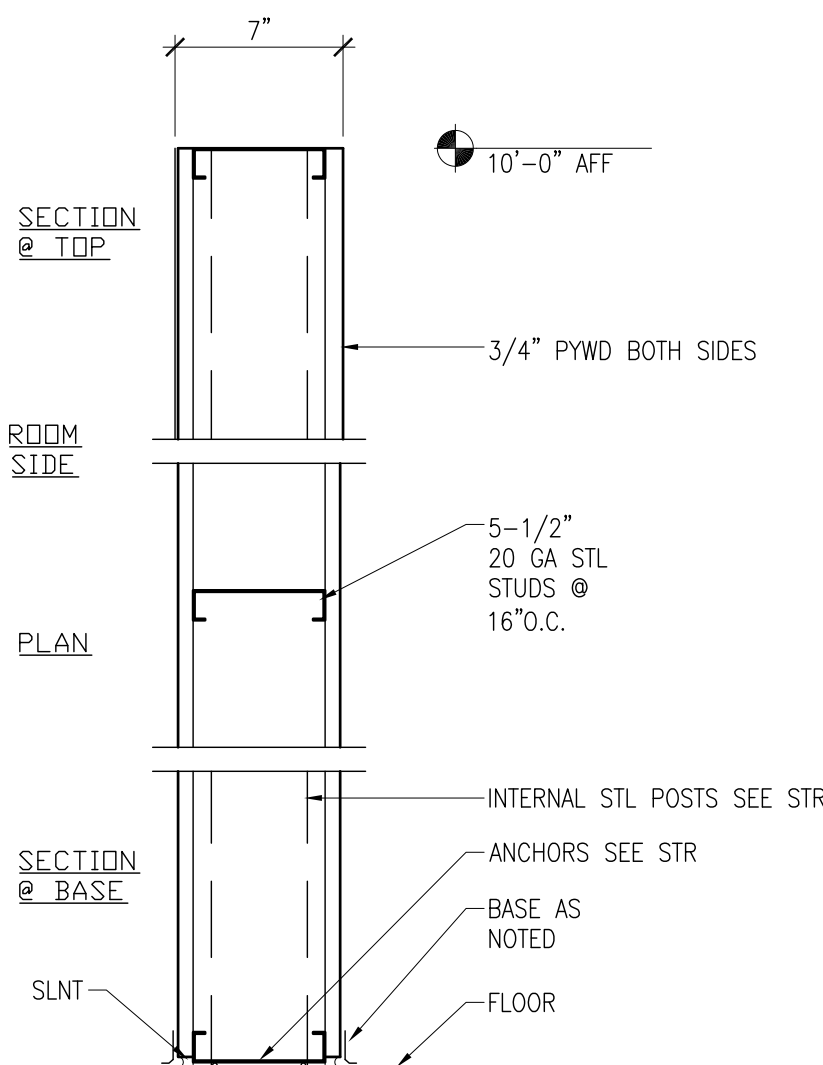
- D1 WALLS TO UNDERSIDE OF DECK BOTH SIDES GPDW FULL HEIGHT BOTH SIDES
- D2 GPDW TO 6' ABOVE CEILING ONE SIDE
- D3 WALL FRAMING TO 6' ABOVE CEILING BOTH SIDES, SINGLE LAYER GPDW BOTH SIDES BRACE TO STRUCTURE AS REQD

- 10" MIN AT BACK TO BACK TOILETS
- 7" MIN AT SINGLE TOILETS



E. PARTITIONS

- F1 SINGLE LAYER GPDW (BOTH SIDES): 4-7/8" W
- F2 NO BATT INS



F. PARTITIONS (SHOP LOW WALLS)

- F1 SINGLE LAYER 3/4" PLWD BOTH SIDES

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SCALE: AS NOTED
DRAWN BY: KP
CHECKED BY: -
CAD FILE: 1503_DoorType
DATE: Sept 8, 2020

REVISIONS	
Δ	DESCRIPTION

CONTENTS:

PARTITION TYPES
& INTERIOR DETAILS

SHEET NO:



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SCALE: AS NOTED
DRAWN BY: KP
CHECKED BY: -
CAD FILE: 1503_A52-Schedules
DATE: Sept 8, 2020

REVISIONS		
△	DATE	DESCRIPTION

CONTENTS:

SCHEDULES &
NOTES

SHEET NO:

OMIC - ADDITIVE MANUFACTURING CENTER
DOOR SCHEDULE

DOOR NO.	ROOM	TYPE	SIZE (Height/Width)	MATERIAL	FINISH	HW SET	FIRE RATING	NOTES
100	Vestibule	A	8'0"/6'0"	ALUM/GL	CLEAR	18	-	
101	Entry	A	8'0"/6'0"	ALUM/GL	CLEAR	19	-	
102	Hall	H	8'0"/6'0"	ALUM/GL	CLEAR	20	-	
103A	Multipurpose 1	J	8'0"/6'0"	WD	NAT	21	45 MIN	
103B	Multipurpose 1	C	10'0"/9'0"	ALUM/GL	CLEAR	22	-	
103C	Multipurpose 1	D	10'0"/10'0"	ALUM/GL	CLEAR	*14	-	* PER MANF
104A	Multipurpose 2	J	8'0"/6'0"	WD	NAT	21	45 MIN	
104B	Multipurpose 2	C	10'0"/9'0"	ALUM/GL	CLEAR	22	-	
104C	Multipurpose 2	D	10'0"/10'0"	ALUM/GL	CLEAR	*14	-	* PER MANF
105	Women	M	7'0"/3'0"	WD	NAT	11	-	
106	Men	M	7'0"/3'0"	WD	NAT	11	-	
107	Janitor	M	7'0"/3'0"	WD	NAT	9	-	
108	Lactation	M	7'0"/3'0"	WD	NAT	10	-	
109	WC - Unisex	M	7'0"/3'0"	WD	NAT	10	-	
110	Lounge/ Dinning	H	8'0"/3'0"	WD	NAT	16	-	
111	Collaborative	H	8'0"/3'0"	WD	NAT	7	-	
111A	Conference 1	M	8'0"/3'0"	WD	NAT	6	-	
111B	Conference 2	M	8'0"/3'0"	WD	NAT	6	-	
112A	Open Office	H	8'0"/3'0"	WD	NAT	7	-	
112B	Open Office	H	8'0"/3'0"	WD	NAT	8	-	
113	Conference 3	M	8'0"/3'0"	WD	NAT	12	-	
114	Print	L	7'0"/3'0"	WD	NAT	5	-	
115	Data/ Electrical	L	7'0"/3'0"	WD	NAT	4	45	
116	Executive Office 1	M	8'0"/3'0"	WD	NAT	15	-	
117	Executive Office 2	M	8'0"/3'0"	WD	NAT	15	-	
118	Hallway	B	8'0"/3'0"	ALUM/GL	CLEAR	13	-	
119	Men	M	7'0"/3'0"	WD	NAT	11	-	
120	Women	M	7'0"/3'0"	WD	NAT	11	-	
121	Unisex Bath	M	7'0"/3'0"	WD	NAT	10	-	
122	Locker	M	7'0"/3'0"	WD	NAT	26	-	
S01A	Reserch Shop	L	7'0"/3'0"	HMTL	PNT	3	45 MIN	
S01B	Reserch Shop	L	7'0"/3'0"	HMTL	PNT	3	45 MIN	
S01C	Reserch Shop	L	7'0"/3'0"	HMTL	PNT	3	45 MIN	
S01D	Reserch Shop	E	7'0"/3'0"	HMTL	PNT	2	-	
S01E	Reserch Shop	G	16'0"/18'0"	STL/SEC-OH	PNT	*14	-	* PER MANF
S01F	Reserch Shop	E	7'0"/3'0"	HMTL	PNT	1	-	
S01G	Reserch Shop	E	7'0"/3'0"	HMTL	PNT	2	-	
S01H	Reserch Shop	E	7'0"/3'0"	HMTL	PNT	1	-	
S01J	Reserch Shop	G	16'0"/18'0"	STL/SEC-OH	PNT	*14	-	* PER MANF
S01K	Reserch Shop	E	7'0"/3'0"	HMTL	PNT	2	-	
S01L	Roof Access	F	7'0"/3'0"	HMTL	PNT	1	-	
S02	Lab	L(2)	7'0"/6'0"	HMTL	PNT	24	-	
S03A	Measuring LH1210	L	7'0"/3'0"	HMTL	PNT	5	-	
S03B	Measuring LH1210	N	10'0"/12'0"	STL/OH-ROLL	PNT	*14	-	* PER MANF
S04	Air Lock	L	7'0"/6'0"	HMTL/GL	CLEAR	23	45 MIN	
S05	Powdered Metal Handling	L	7'0"/6'0"	HMTL/GL	CLEAR	23	90 MIN	
S06A	Powdered Metal Storage	L	7'0"/3'0"	HMTL	PNT	4	90 MIN	
S06B	Powdered Metal Storage	E(2)	7'0"/6'0"	HMTL	PNT	17	-	
S07	Fire Sprinkler Control	M	7'0"/3'0"	HMTL	PNT	9	45 MIN	
S08A	Electrical	F(2)	7'0"/6'0"	HMTL	PNT	25	60 MIN	
S09A	Compressor	F(2)	7'0"/6'0"	HMTL	PNT	25	-	
S10A	Trash/ Recycle	F(2)	7'0"/6'0"	HMTL	PNT	27	-	
S10B	Trash/ Recycle	G	10'0"/8'0"	STL	PNT	14	-	
S11	Water Equip	L	7'0"/3'0"	HMTL	PNT	9	45 MIN	

Notes:
SD-VCT = Static Disipative Vinyl Composition Tile
HET = Heterogeneous Sheet Flooring
(2) 2x8 horizontal attached at level to protect walls from dumpsters and trash bins, verify height with architect

OMIC - ADDITIVE MANUFACTURING CENTER
FINISH SCHEDULE

ROOM NO.	ROOM	FLOOR	WALLS				Base	CEILING	NOTES
			North	East	South	West			
100	Vestibule	Walk-off mat	Storefront	Storefront	Storefront	Storefront	Storefront	Mtl Pnl	
101	Entry	LVT	GPDW	ALUM/GL ptn	GPDW, Bamboo PWD	Storefront	WD	GPDW, Bamboo PWD	A4.1
102	Hall	LVT	GPDW	Custom Digital Mural, GPDW	ALUM/GL ptn/ GPDW	ALUM/GL ptn	WD	GPDW	A4.1
103	Multipurpose 1	CPT tile	GPDW	Movable ptn	GPDW, AC pnl	GPDW, AC pnl	RBR	ACT cloud	A4.2
104	Multipurpose 2	CPT tile	GPDW	GPDW	GPDW, AC pnl	Movable ptn	RBR	ACT cloud	A4.2
105	Women	Vinyl sht-HET	GPDW, FRP	GPDW, FRP	GPDW, FRP	GPDW, FRP	RBR	GPDW	A4.0
106	Men	Vinyl sht-HET	GPDW, FRP	GPDW, FRP	GPDW, FRP	GPDW, FRP	RBR	GPDW	A4.0
107	Janitor	Vinyl sht-HET	FRP	FRP	FRP	FRP	RBR	GPDW	
108	Lactation	Vinyl sht-HET	GPDW	GPDW	GPDW	GPDW	RBR	GPDW	
109	WC - Unisex	Vinyl sht-HET	GPDW, FRP	GPDW, FRP	GPDW, FRP	GPDW, FRP	RBR	GPDW	
110	Lounge/ Dinning	LVT	GPDW, PLAM	GPDW, AC pnl	GPDW, AC pnl	GPDW	RBR		A4.2
111	Collaborative	CPT tile	ALUM/GL ptn, GPDW	GPDW	ALUM/GL ptn, GPDW	Storefront	RBR	AC Pnl Hex	
111A	Conference 1	CPT tile	GPDW	GPDW	ALUM/GL ptn, GPDW	GPDW	RBR	ACT	Chair rail on GPDW @ 30"AFF
111B	Conference 2	CPT tile	GPDW	ALUM/GL ptn, GPDW	ALUM/GL ptn, GPDW	Storefront	RBR	ACT	Chair rail on GPDW @ 30"AFF
112	Open Office	CPT tile	ALUM/GL ptn, GPDW	GPDW	ALUM/GL ptn, GPDW	Storefront	RBR	AC Pnl Baffle	
113	Conference 3	CPT tile	GPDW	GPDW	ALUM/GL ptn, GPDW	GPDW	RBR	ACT	
114	Print	Vinyl sht-HET	GPDW	GPDW	GPDW	GPDW	RBR	ACT	
115	Data/ Electrical	Vinyl sht-HET	GPDW	GPDW	GPDW	GPDW	RBR	ACT	
116	Executive Office 1	CPT tile	ALUM/GL ptn, GPDW	GPDW	GPDW	GPDW	RBR	ACT	Chair rail on GPDW @ 30"AFF
117	Executive Office 2	CPT tile	ALUM/GL ptn, GPDW	GPDW	GPDW	Storefront	RBR	ACT	Chair rail on GPDW @ 30"AFF
118	Hallway	LVT	GPDW	GPDW	GPDW	Storefront	RBR		
119	Men	Vinyl sht-HET	GPDW, FRP	GPDW, FRP	GPDW, FRP	GPDW, FRP	RBR	GPDW	
120	Women	Vinyl sht-HET	GPDW, FRP	GPDW, FRP	GPDW, FRP	GPDW, FRP	RBR	GPDW	
121	Unisex Bath	Vinyl sht-HET	GPDW, FRP	GPDW, FRP	GPDW, FRP	GPDW, FRP	RBR	GPDW	
122	Locker	Vinyl sht-HET	GPDW, FRP	GPDW, FRP	GPDW, FRP	GPDW, FRP	RBR		
S01	Reserch Shop	Pol Conc	PWD (upto 8'-0" AFF)	PWD (upto 8'-0" AFF)	PWD (upto 8'-0" AFF)	PWD (upto 8'-0" AFF)	RBR		
S02	Lab	Pol Conc	GPDW	GPDW	GPDW	GPDW	RBR	GPDW	
S03	Measuring LH1210	Pol Conc	GPDW	GPDW	GPDW	GPDW	RBR	GPDW	
S04	Air Lock	VCT	GPDW	GPDW	GPDW	GPDW	RBR	GPDW	
S05	Powdered Metal Handling	SD-VCT	GPDW	GPDW	GPDW	GPDW	RBR	GPDW	
S06	Powdered Metal Storage	SD-VCT	GPDW	GPDW	GPDW	GPDW	RBR	GPDW	
S07	Fire Sprinkler Control	Pol Conc	GPDW	GPDW	GPDW	GPDW	RBR		
S08	Electrical	Pol Conc	GPDW	GPDW	GPDW	GPDW	RBR		
S09	Compressor	Pol Conc	GPDW	GPDW	GPDW	GPDW	RBR		
S10	Trash/ Recycle	Pol Conc	PWD (upto 8'-0" AFF)	PWD (upto 8'-0" AFF)	PWD (upto 8'-0" AFF)	PWD (upto 8'-0" AFF)	RBR		* 2x8 Wall protection
S11	Water Equip	Pol Conc	FRP, GPDW	FRP, GPDW	FRP, GPDW	FRP, GPDW	RBR		

PERMIT SET