

EAST TOWN CROSSING LOT 1 COMMERCIAL



This project doesn't fall within the scope of the International Residential Code. [Reference the marked-up document: CONSTRUCTION PLAN SET, sheet AG1.0]

GENERAL PROJECT NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH THE CONTENT OF THESE DRAWINGS PRIOR TO PROCEEDING WITH THE WORK. DO NOT SCALE THE DRAWINGS.
- IN THE EVENT THE CONTRACTOR FINDS A CONFLICT OR DISCREPANCY WITH THESE DRAWINGS, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY IN WRITING. SHOULD THE CONTRACTOR PROCEED WITHOUT NOTIFYING THE ARCHITECT OF SUCH CONFLICT, THE CONTRACTOR SHALL BE PROCEEDING AT HIS OWN RISK & ASSOCIATED LIABILITY.
- THESE DRAWINGS SERVE TO REPRESENT DESIGN INTENT AS DIRECTED BY THE OWNER & COMPLIANT WITH GOVERNING JURISDICTIONAL LAW. IN NO WAY SHALL THESE DRAWINGS SERVE TO DICTATE METHODS OF CONSTRUCTION RELATIVE TO ADHERENCE TO EITHER. IT IS THE CONTRACTOR'S & OWNER'S RESPONSIBILITY TO WORK WITHIN THE PARAMETERS OF THE AGENCY APPROVED DOCUMENTS TO MAINTAIN THE INTEGRITY OF THE DESIGN INTENT AND AGENCY COMPLIANCE. ANY ERRORS, OMISSIONS OR NONCOMPLIANCE WITH GOVERNING CODES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY. CHANGES, OMISSIONS OR SUBSTITUTIONS ARE NOT PERMITTED WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
- THE DESIGN, ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE PRIOR TO THE COMPLETION OF ALL SHEAR WALLS, ROOF AND FLOOR DIAPHRAGMS AND FINISHED MATERIALS. THE CONTRACTOR SHALL PROVIDE THE NECESSARY BRACING TO PROVIDE STABILITY PRIOR TO THE APPLICATION OF THE ABOVE MENTIONED COMPONENTS.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST EDITION OF THE INTERNATIONAL RESIDENTIAL CODE (IRC).
- SPECIAL INSPECTION SHALL BE PROVIDED BY AND INDEPENDENT TESTING LABORATORY PER THE REQUIREMENTS OF IBC CHAPTER 17 AND THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION AND CONTRACT DOCUMENTS. THE SPECIAL INSPECTOR SHALL SUBMIT INSPECTION REPORTS AND A FINAL SIGNED REPORT TO THE BUILDING OFFICIAL FOR THE ITEMS LISTED IN THE QUALITY ASSURANCE/SPECIAL INSPECTION SECTION:
- THE CONTRACTOR SHALL VERIFY THE DIMENSIONS REQUIRED FOR ALL EQUIPMENT, APPLIANCES, FIXTURES, CABINETS, DUCTWORK AND OPENINGS BEFORE FRAMING BEGINS. THE CONTRACTOR SHALL COORDINATE WITH THE SUBCONTRACTORS OF ALL TRADES TO VERIFY THE SIZES AND LOCATIONS OF OPENINGS THROUGH THE FLOORS, WALLS, CEILINGS AND ROOFS FOR DUCTS, PIPES, CONDUITS AND EQUIPMENT. THE CONTRACTOR SHALL COORDINATE THE LOCATION AND INSTALLATION OF WOOD BACKING, BLOCKING, FURRING AND STRIPPING AS REQUIRED FOR THE INSTALLATION AND ATTACHMENT OF WORK OF ALL TRADES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SYSTEMS, INCLUDING, BUT NOT LIMITED TO, MECHANICAL, PLUMBING, ELECTRICAL WORK. WORK SHOWN IN THE DRAWINGS IS INTENDED TO ILLUSTRATE THE GENERAL DESIGN INTENT, SCOPE AND LOCATION OF WORK. ALL WORK NOT SPECIFICALLY DRAWN, BUT REQUIRED FOR A COMPLETE, LEGAL AND FUNCTIONING SYSTEM, SHALL BE PROVIDED AS PART OF THE WORK.
- SAFEGUARDS DURING CONSTRUCTION SHALL COMPLY WITH CHAPTER 33 OF THE INTERNATIONAL BUILDING CODE.

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SEPARATE SUBMITTALS

FIRE SPRINKLER
FIRE ALARM SYSTEM

DEFERRED SUBMITTALS

PRE-MANUFACTURED ROOF TRUSSES

Trusses cannot be deferred for this scope of work. [Reference the marked-up document: CONSTRUCTION PLAN SET, sheet AG1.0]

PROJECT SCOPE

THE OVERALL ARCHITECTURAL SCOPE OF THIS PROJECT IS CONSTRUCT ONE COMMERCIAL SHELL BUILDING WITH 2 FUTURE TENANTS AND RELATED SITE DEVELOPMENT.

REFER TO THE FOLLOWING APPLICATION NUMBER:
SITE DEVELOPMENT: **PRCCP20230970**

SYMBOL LEGEND

DETAIL SYMBOL

1	DETAIL NO. OR LETTER
A2.0	SHEET

SECTION SYMBOL

1	DETAIL NO. OR LETTER
A2.0	SHEET

INTERIOR ELEVATION SYMBOL

2	DRAWING NUMBER
A4.0	SHEET

DOOR I.D. SYMBOL

100A	DOOR NUMBER REFER TO SHEET A4.0.
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ROOM I.D. SYMBOL

ROOM	ROOM NAME
100	ROOM NUMBER

WALL TYPE SYMBOL

1A	WALL TYPE NO. REFER TO SHEET A2.0
----	--------------------------------------

FLOOR - CEILING ASSEMBLY TYPE SYMBOL

Z#	ASSEMBLY TYPE NO. REFER TO SHEET AG.03
----	---

EXTERIOR WINDOW TYPE SYMBOL

#	WINDOW TYPE NUMBER
---	--------------------

BUILDING REFERENCE NOTE SYMBOL

#	REFERENCE TYPE NUMBER
---	-----------------------

PROJECT TEAM

OWNER'S:

ASH DEVELOPMENT, LLC
PUYALLUP, WA
c/o: GREG HELLE
253-318-5711
greg.helle@absherco.com

ARCHITECT :

SYNTHESIS 9, LLC
TACOMA, WA
c/o: BRETT LINDSAY
253-468-4117
blindsay@synthesis9.com

CIVIL ENGINEER:

AHBL, INC.
TACOMA, WA
c/o: TODD SAWIN
253-383-2422
tsawin@ahbl.com

STRUCTURAL ENGINEER:

PIERUCCIONI E&C., LLC
TACOMA, WA
c/o: CHON PIERUCCINI
206-949-7866
pieruccioniengineering@gmail.com

LANDSCAPE ARCHITECT:

LYON LANDSCAPE ARCHITECTS
c/o: ERIC J. WILLIAMS
TACOMA, WA
253-678-4173
eric@lyonla.com

PLUMBING & MECHANICAL ENGINEERING

ROBISON ENGINEERING INC.
LYNNWOOD, WA 98036
c/o: JON ROBISON
206-364-3343
jrobison@robisonengineering.com

FIRE SPRINKLERS

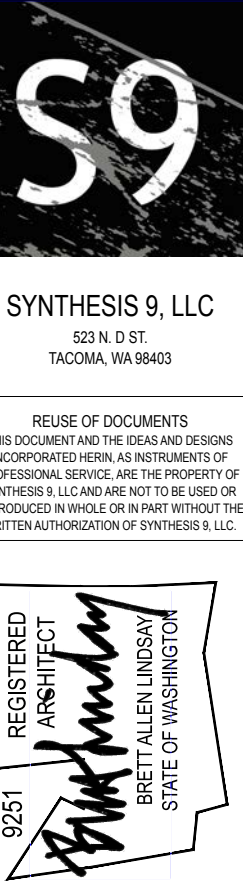
SPRINX FIRE PROTECTION, INC.
c/o: JOE FAULKNER
253-853-7780
joe@sprinxfire.com

VICINITY MAP (NOT TO SCALE)



Shell Permit Only. Separate Tenant Improvement Permit will be required prior to Occupancy.

EAST TOWN CROSSING
LOT 1 COMMERCIAL
PIONEER & SHAW PUYALLUP



REGISTERED ARCHITECT

1521 N. D ST. TACOMA, WA 98403

STATE OF WASHINGTON

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SYNTHESIS 9, LLC

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STATE OF WASHINGTON

ENVELOPE COMPLIANCE SUMMARY

Project & Applicant Information	Project Title	East Town Crossing - Lot One - 2021 WSCC	For Building Department Use:	Date:	Dec 19, 2024
	Project Address	Pioneer & Shaw Puyallup, WA 98372			
	Applicant Name	Brett Lindsay			
	Applicant Phone	253-468-4117			
	Applicant Email	blindsay@synthesis9.com			
For questions about this report, contact WSCC Commercial Technical Support at 360-539-5300 or via email at comtechsupport@waenergyodes.com					

Envelope Compliance Scope and Method	Scope	Space Conditioning Category	Compliance Method	WWR/SRR per Category	U/A Calculation Adjustment	Fenestration Alternates	Compliance Verification
	New Building	Fully Conditioned	Prescriptive	26.38% / 0%	None selected	No alternates selected	COMPLIES

Project Title	East Town Crossing - Lot One - 2021 WSEC				Date	Dec 19, 2024
Scope & Space Conditioning	NEW BUILDING - FULLY CONDITIONED			Compliance Verification	COMPLIES	
Window-to-wall Ratio	26.38%	Skylight-to-roof-ratio	0%	Vertical Penetration Alternate	No alternates selected	

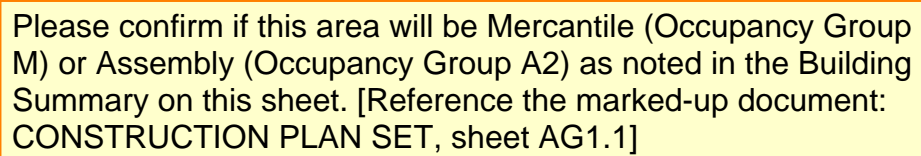
F-Factor Source Description:								
Fenestration & Opaque Door Assemblies				Insulation R-Values				
Opaque Doors	Location in Documents	Assembly ID	Assembly Location	Door Insulation		U-Factor	Rough Opening (SF)	
	Swinging	A4.0	B	Exterior		U-0.37	63	
	What percentage of this opaque door is glazing? 50% or less			U-Factor Source:				
	U-Factor Source Description:			Is this a public entrance door? Yes				
	Door enclosed within a vestibule? No vestibule							
Vertical Fenestration	Location in Documents	Assembly ID	Assembly Location	Shading (PF)	Fenestration SHGC	Fenestration U-Factor	Rough Opening (SF)	
Fixed - Class AW or site built	A4.0	01	Exterior	PF < 0.2	SHGC-0.38	U-0.34	50	
	U-Factor & SHGC Source:			U-Factor Source Description:				
Fixed - Class AW or site built	A4.0	02	Exterior	PF < 0.2	SHGC-0.38	U-0.34	130	
	U-Factor & SHGC Source:			U-Factor Source Description:				
Fixed - Class AW or site built	A4.0	03	Exterior	PF < 0.2	SHGC-0.38	U-0.34	145	
	U-Factor & SHGC Source:			U-Factor Source Description:				
Fixed - Class AW or site built	A4.0	04	Exterior	PF < 0.2	SHGC-0.38	U-0.34	608	
	U-Factor & SHGC Source:			U-Factor Source Description:				
Fixed - Class AW or site built	A4.0	05	Exterior	PF < 0.2	SHGC-0.38	U-0.34	87	
	U-Factor & SHGC Source:			U-Factor Source Description:				
Fixed - Class AW or site built	A4.0	06	Exterior	PF < 0.2	SHGC-0.38	U-0.34	115	
	U-Factor & SHGC Source:			U-Factor Source Description:				
Glazed Doors	Location in Documents	Assembly ID	Assembly Location	Shading (PF)	Fenestration SHGC	Fenestration U-Factor	Rough Opening (SF)	
Swinging entrance door	A4.0	A	Exterior	PF < 0.2	SHGC-0.33	U-0.60	144	
	U-Factor & SHGC Source:			U-Factor Source Description:				
	Is this a public entrance door? Yes			Door enclosed within a vestibule? No vestibule				

SKYLIGHTS	N/A
WOOD FRAMED WALLS	R-20 BATTS IN CAVITY + R-3.8 CONTINUOUS INSULATION
MASS WALL R-VALUE	N/A
FLOOR	R-VALUE: 30
SLAB, R-VALUE & DEPTH	R-10, TOP OF SLAB TO TOP OF FOOTING

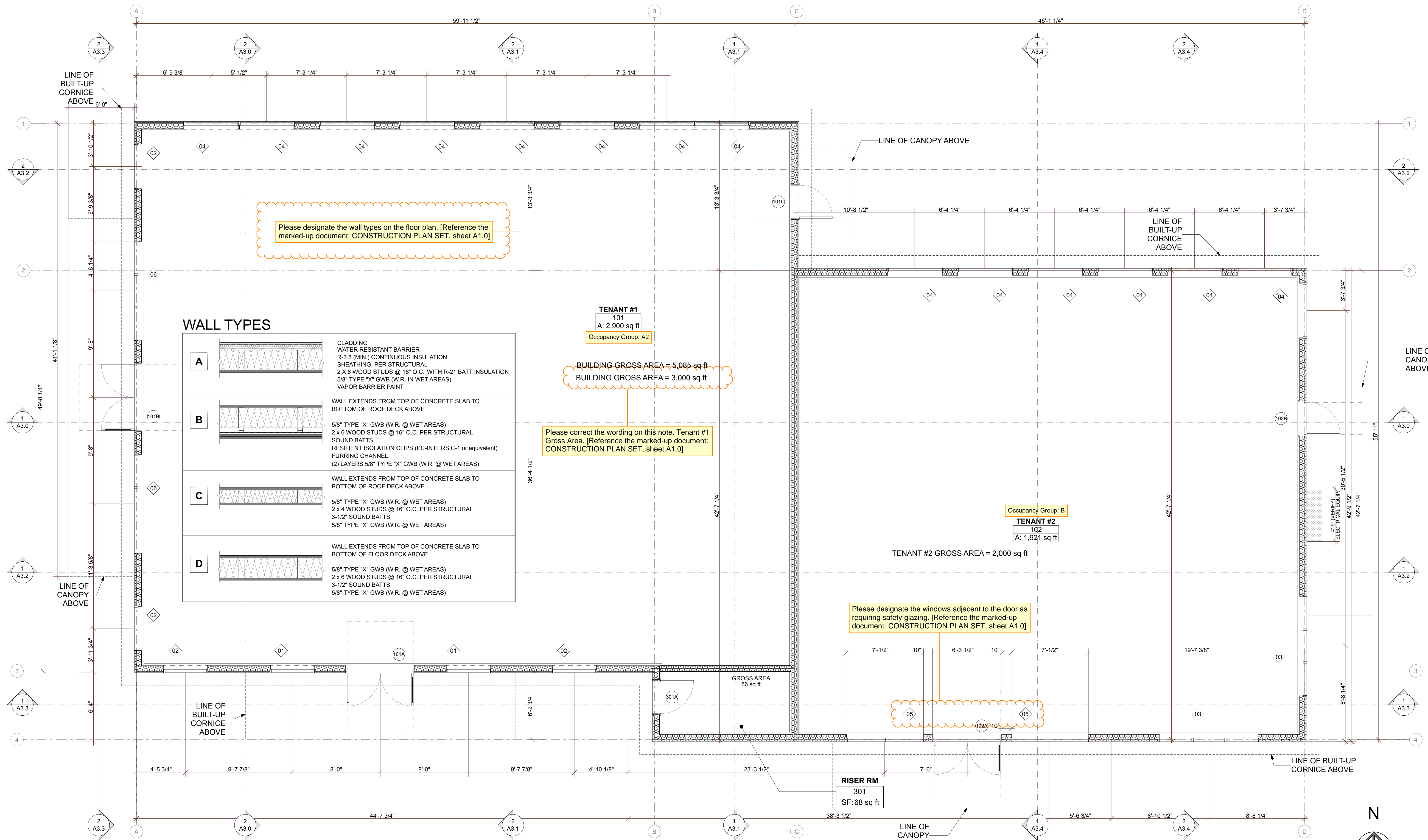
1. AN IDENTIFICATION MARK SHALL BE APPLIED TO ALL INSULATION MATERIALS PER C303.1.
2. ALL FENESTRATION PRODUCTS SHALL BE LABELED WITH RATED U-FACTOR, SHGC, VT, LEAKAGE RATING PER C303.1.3 AND C402.4.3.
3. PROJECT CLOSE OUT DOCUMENTATION IS REQUIRED INCLUDING APPLICABLE CALCULATIONS, WSEC ENVELOPE COMPLIANCE REPORTS, AND FENESTRATION NFRC RATING CERTIFICATES PER C103.6.3.

Please verify that the correct number of EV charging infrastructure is provided. This note says 4 ready and 4 future are provided, but no mention of EV Charging Stations is included. The site plan only shows six (6) parking spaces noted as "EV" or "Future EV". [Reference the marked-up document: CONSTRUCTION PLAN SET, sheet AG1.1]

BICYCLE PARKING ANALYSIS
SHORT-TERM BICYCLE PARKING:
REQUIRED: 4 STALLS
PROVIDED: 4



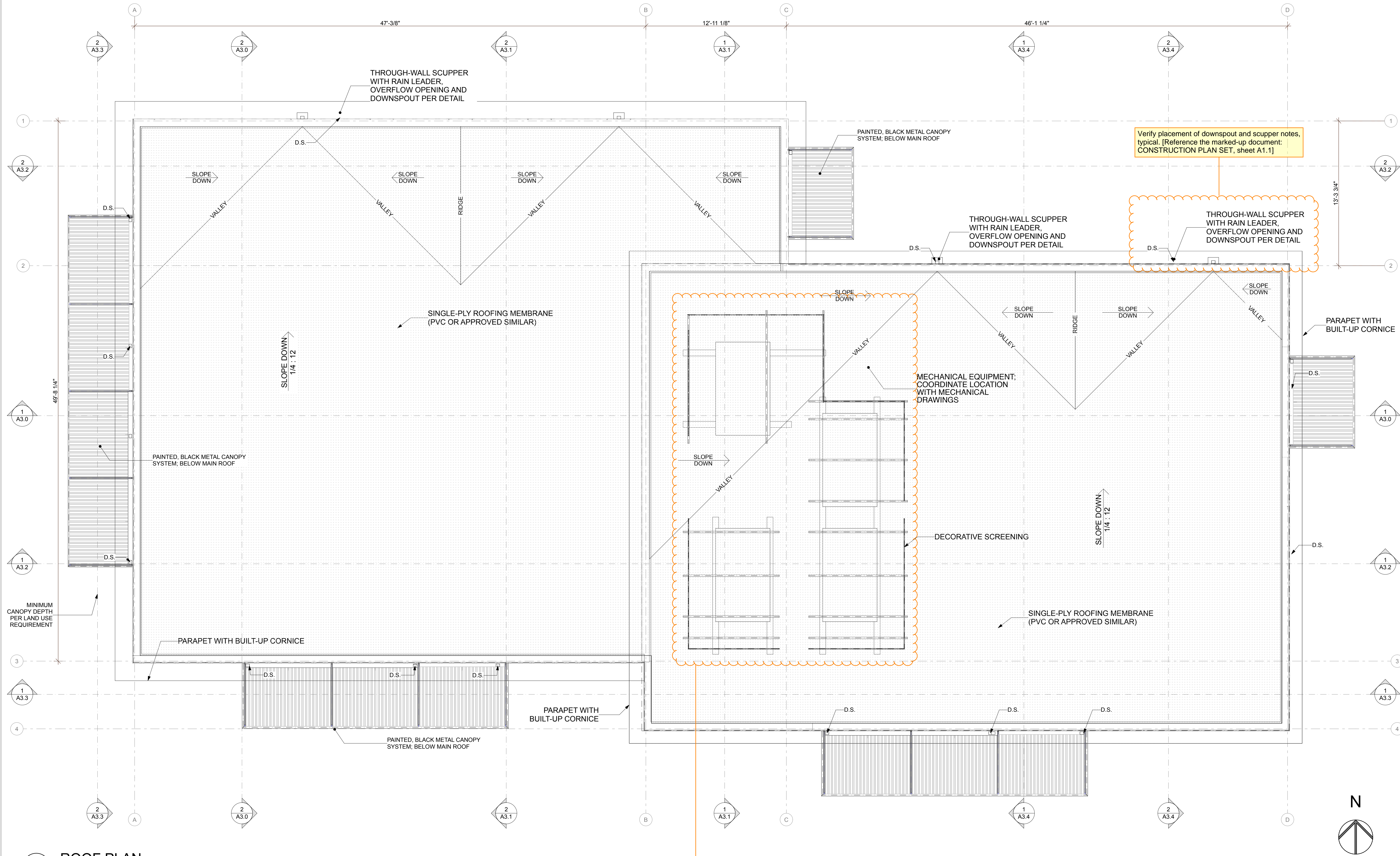
SCALE: 3/32" = 1'-0"



1 FLOOR PLAN

SCALE: 1/4" = 1'-0"

REVISIONS	
REVISIONS	
DRAWN BY:	CM / BL
CHECKED BY:	BL
DATE:	2025.01.17
TITLE:	ROOF PLAN
PROJECT #:	2016-L1
SHEET:	



The placement of the rooftop units differ between this sheet and the mechanical sheets (M2.1 and P2.02). [Reference the marked-up document: CONSTRUCTION PLAN SET, sheet A1.1]

Please clarify how access to the roof, and mechanical units, provided. Please locate the roof access hatch or ladder on the plan. [Reference the marked-up document: CONSTRUCTION PLAN SET, sheet A1.1]

Shell Permit Only. Separate Tenant Improvement Permit will be required prior to Occupancy.

1 ROOF PLAN
SCALE: 1/4" = 1'-0"

AGENCY REVIEW | 2025.01.17

S9

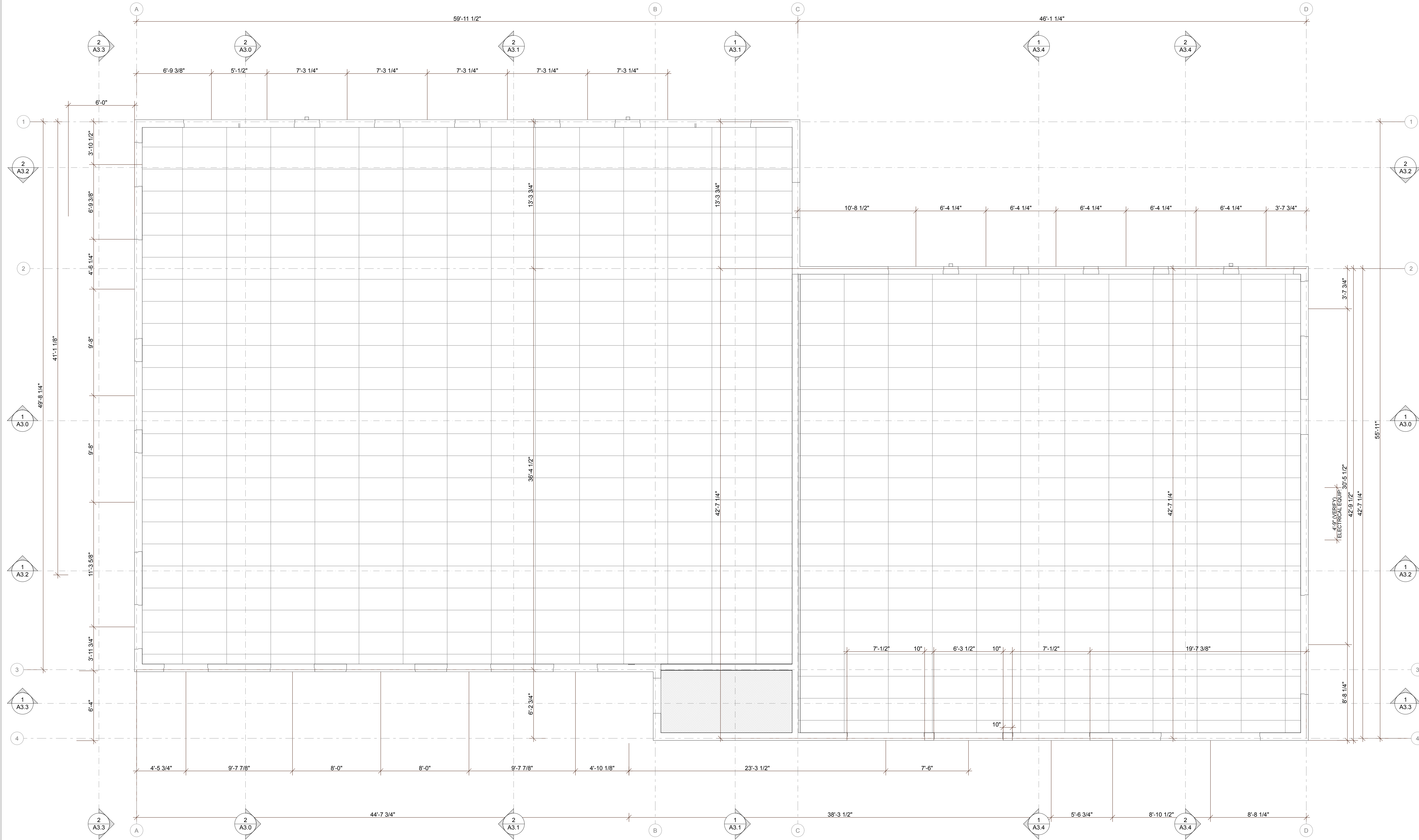
SYNTHESIS 9, LLC
633 N. D ST
TACOMA, WA 98403

REUSE OF DOCUMENTS
THIS DOCUMENT AND THE DESIGN AND DESIGN
INCORPORATED HEREIN ARE INSTRUMENTS OF
PROFESSIONAL SERVICE AND ARE THE PROPERTY OF
SYNTHESIS 9, LLC AND ARE NOT TO BE USED OR
REPRODUCED IN WHOLE OR IN PART WITHOUT THE
WRITTEN AUTHORIZATION OF SYNTHESIS 9, LLC.

9251
REGISTERED
ARCHITECT
Matthew Lindsay
STATE OF WASHINGTON

EAST TOWN CROSSING
LOT 1 COMMERCIAL
PIONEER & SHAW PUYALLUP

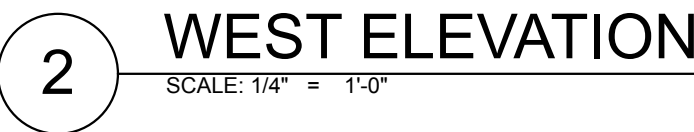
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DRAWN BY:	CM / BL
CHECKED BY:	BL
DATE:	2025.01.17
TITLE:	REFLECTED CEILING PLAN
PROJECT #:	2016-L1
SHEET:	
A1.2	



1 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

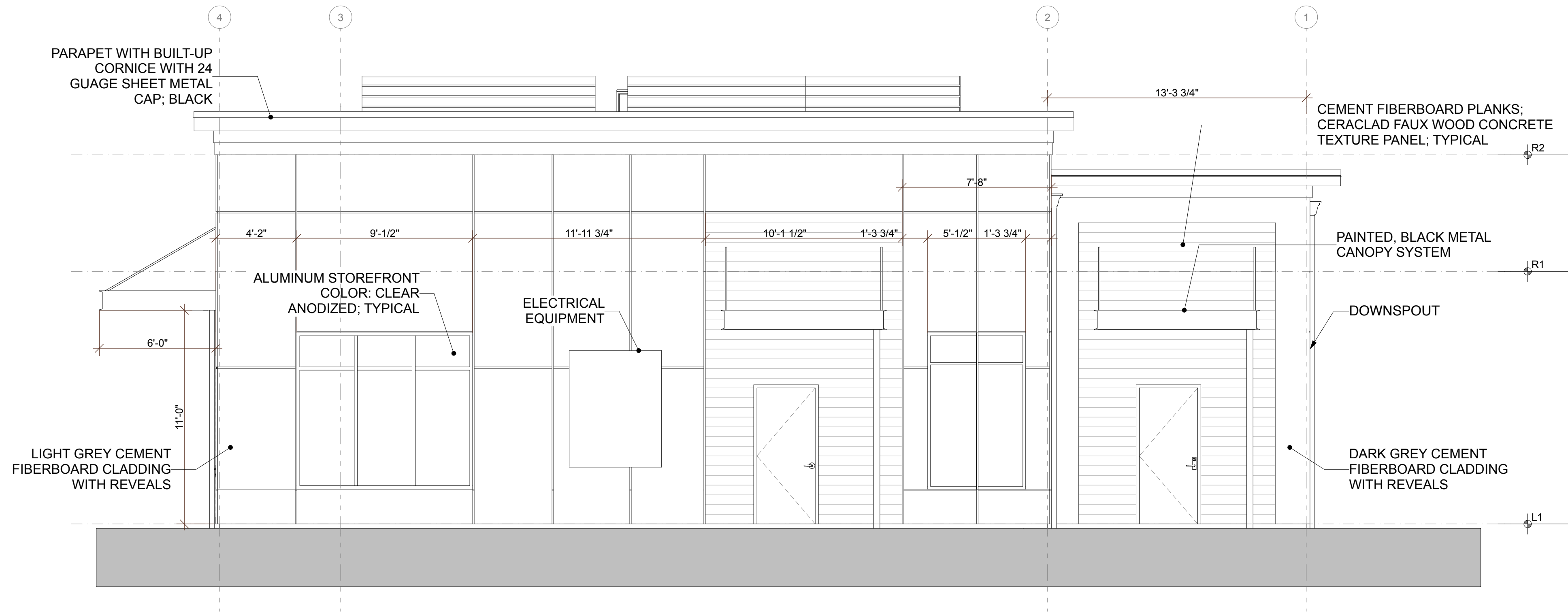
Shell Permit Only. Separate Tenant Improvement Permit will be required prior to Occupancy.

AGENCY REVIEW | 2025.01.17

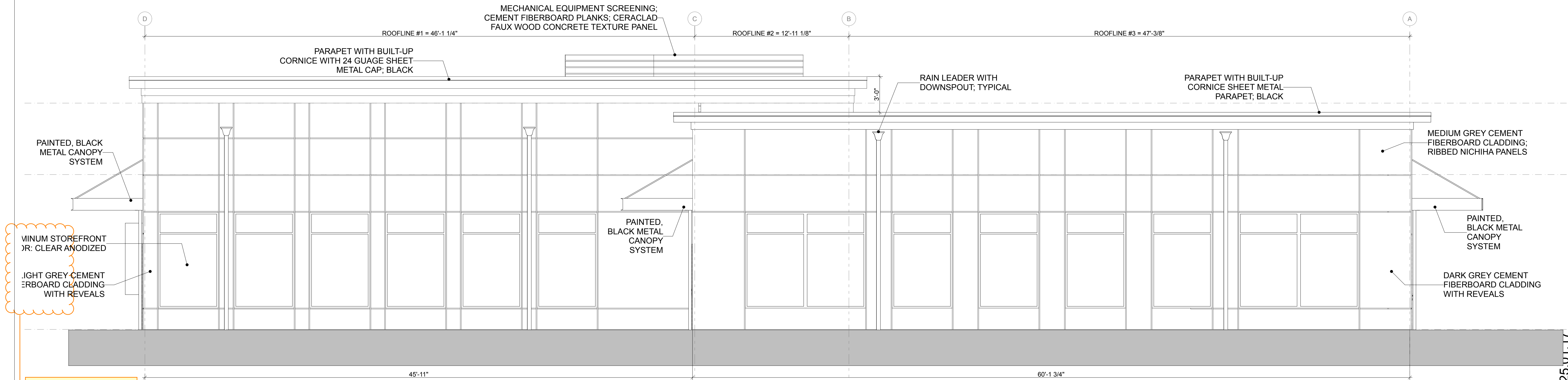


Shell Permit Only. Separate Tenant Improvement Permit will be required prior to Occupancy.

REVISIONS	
REVISIONS	
DRAWN BY:	CM / BL
CHECKED BY:	BL
DATE:	2025.01.17
TITLE:	ELEVATIONS
PROJECT #:	2016-L1
SHEET:	

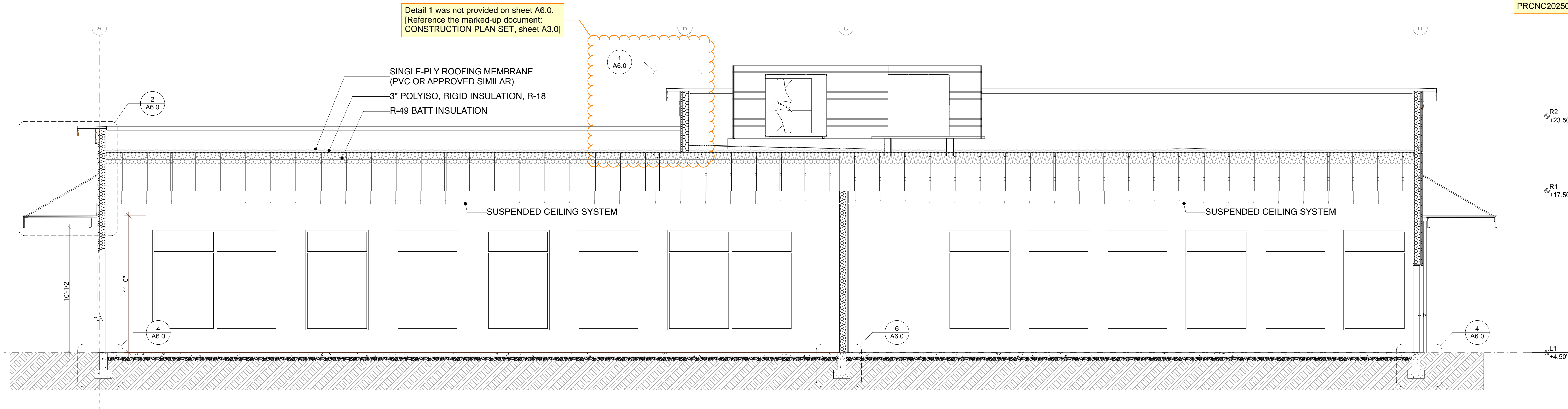


2 EAST ELEVATION
SCALE: 1/4" = 1'-0"

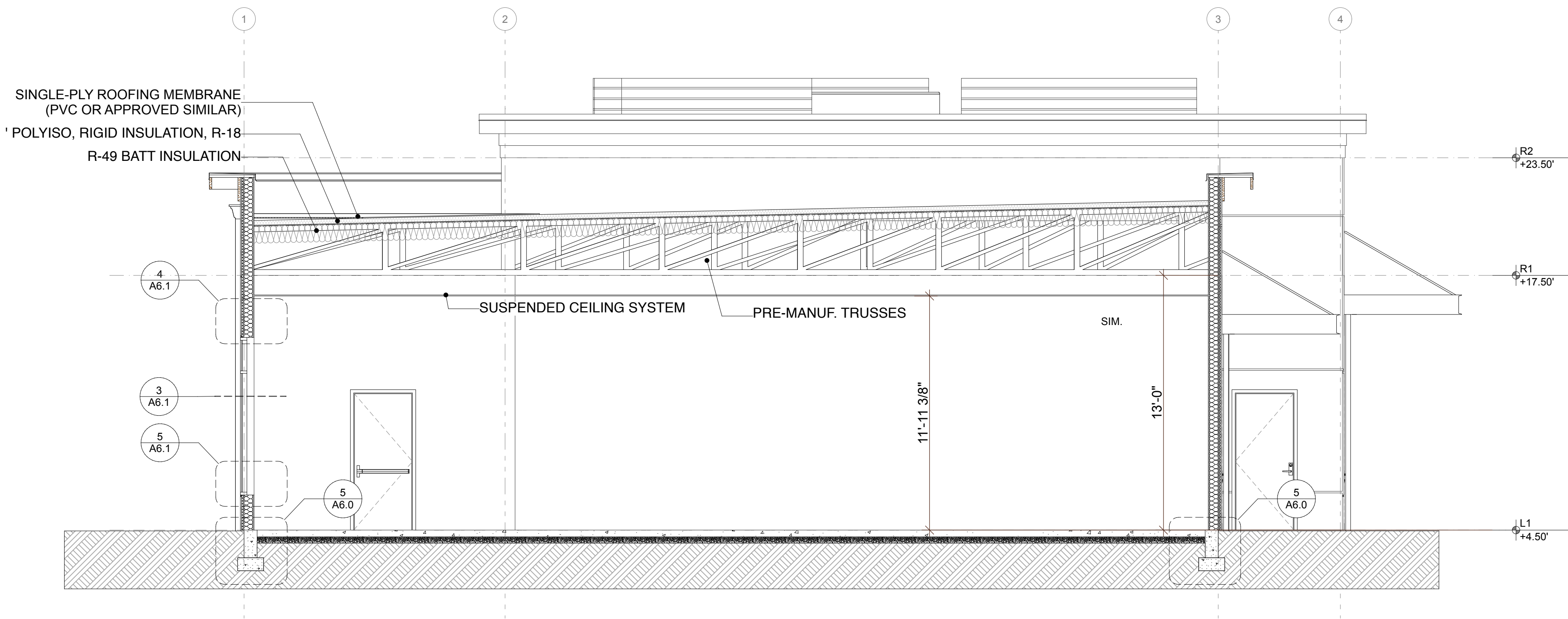


1 NORTH ELEVATION
SCALE: 1/4" = 1'-0"

Please correct the cut-off text.
[Reference the marked-up
document: CONSTRUCTION
PLAN SET, sheet A2.1]



1 BUILDING SECTION 01
SCALE: 1/4" = 1'-0"



2 BUILDING SECTION 02
SCALE: 1/4" = 1'-0"

EAST TOWN CROSSING
LOT 1 COMMERCIAL
PIONEER & SHAW PUYALLUP

REVISIONS

NO.	DESCRIPTION	DATE

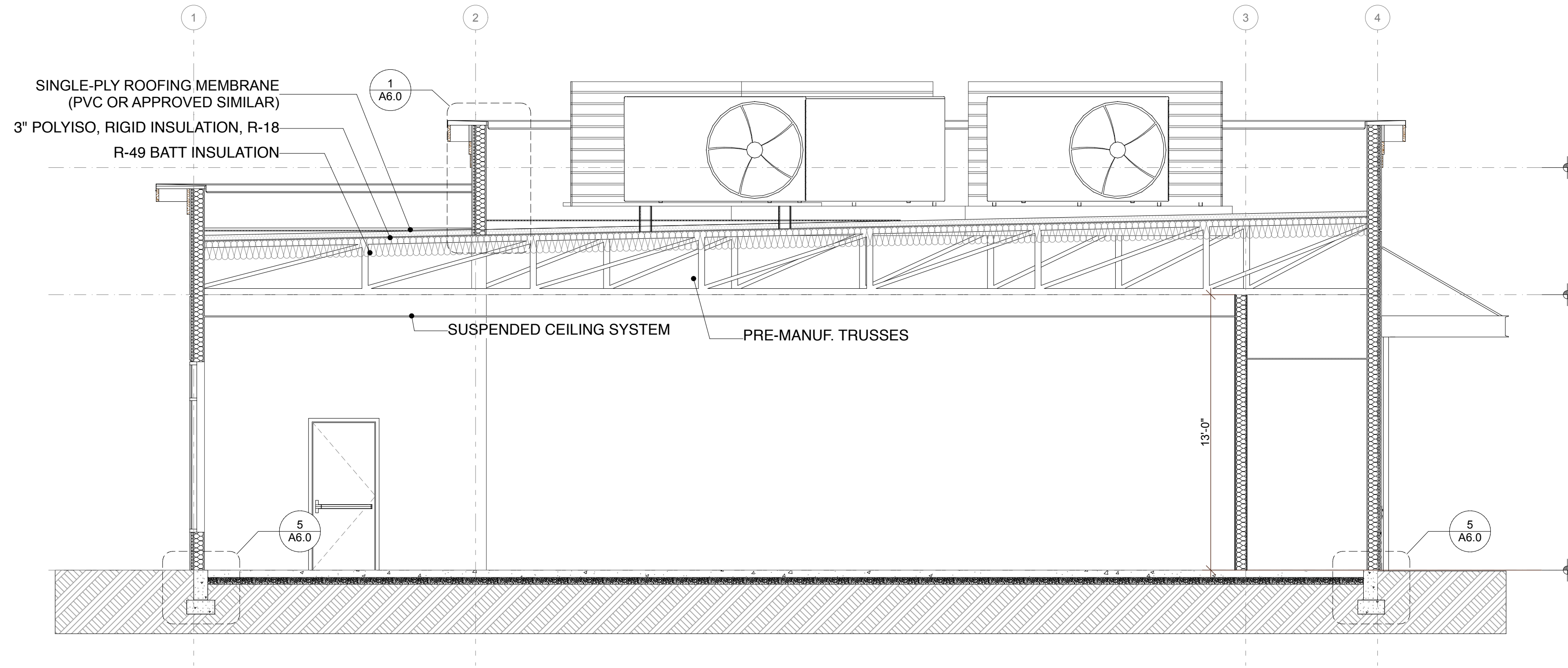
REVISIONS

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CHECKED BY:	BL
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TITLE:	BUILDING SECTIONS
PROJECT #:	2016-L1
SHEET:	

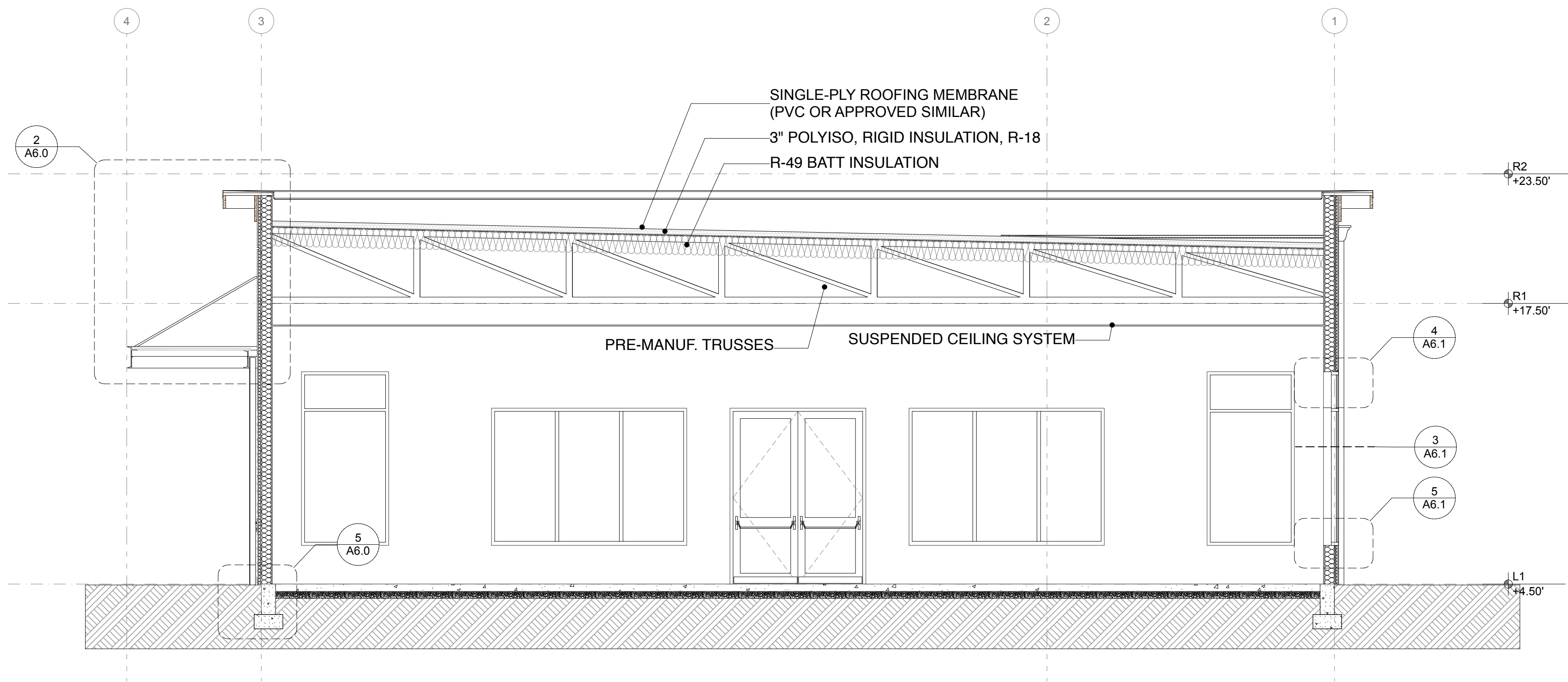
A3.0

Shell Permit Only. Separate Tenant Improvement Permit will be required prior to Occupancy.

AGENCY REVIEW | 2025.01.17



1 BUILDING SECTION 03
SCALE: 1/4" = 1'-0"



2 BUILDING SECTION 04
SCALE: 1/4" = 1'-0"

**EAST TOWN CROSSING
LOT 1 COMMERCIAL
PIONEER & SHAW PUYALLUP**

REVISIONS

NO.	DESCRIPTION	DATE

REVISIONS

DRAWN BY: CM / BL

CHECKED BY: BL

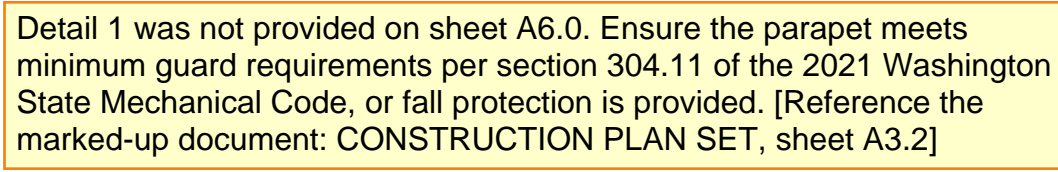
DATE: 2025.01.17

TITLE: BUILDING SECTIONS

PROJECT #: 2016-L1

SHEET:

A3.1

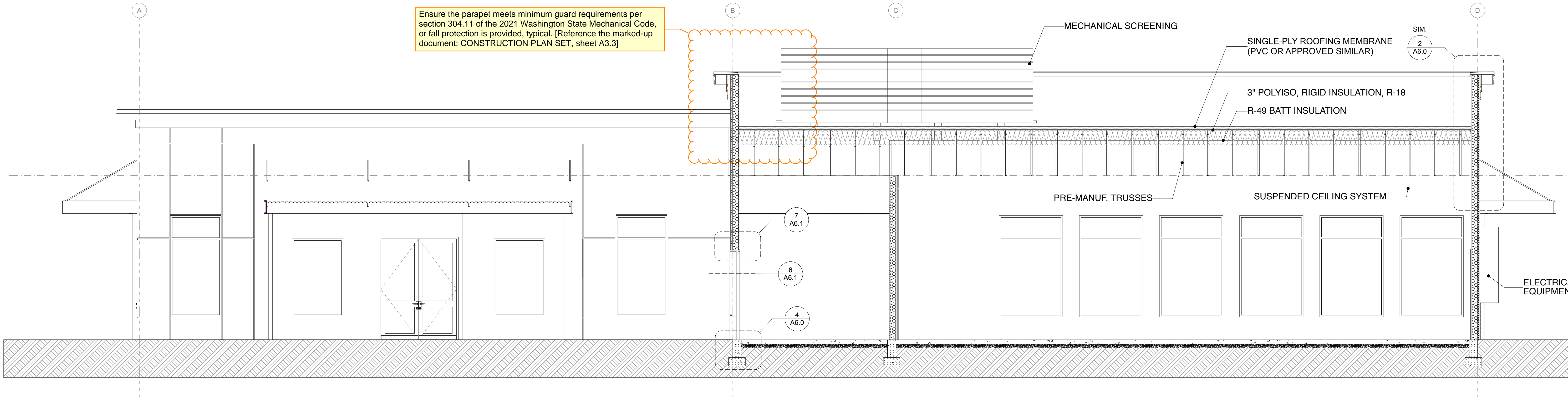


SCALE: 1/4" = 1'-0"



SCALE: 1/4" = 1'-0"

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1 BUILDING SECTION 07
SCALE: 1/4" = 1'-0"



2 BUILDING SECTION 08
SCALE: 1/4" = 1'-0"

EAST TOWN CROSSING
LOT 1 COMMERCIAL
PIONEER & SHAW PUYALLUP

REVISIONS

NO.	DESCRIPTION	DATE

REVISIONS

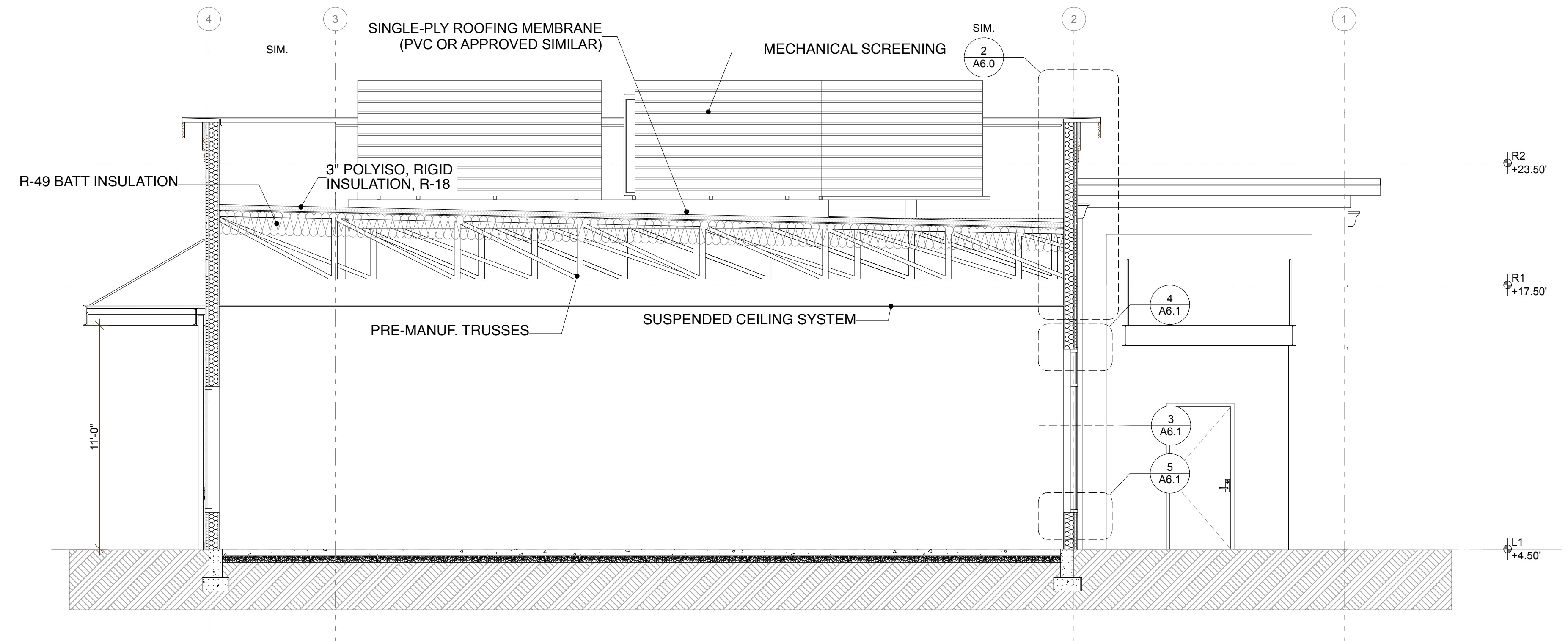
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CHECKED BY:	BL
DATE:	2025.01.17
TITLE:	BUILDING SECTIONS
PROJECT #:	2016-L1
SHEET:	

A3.3

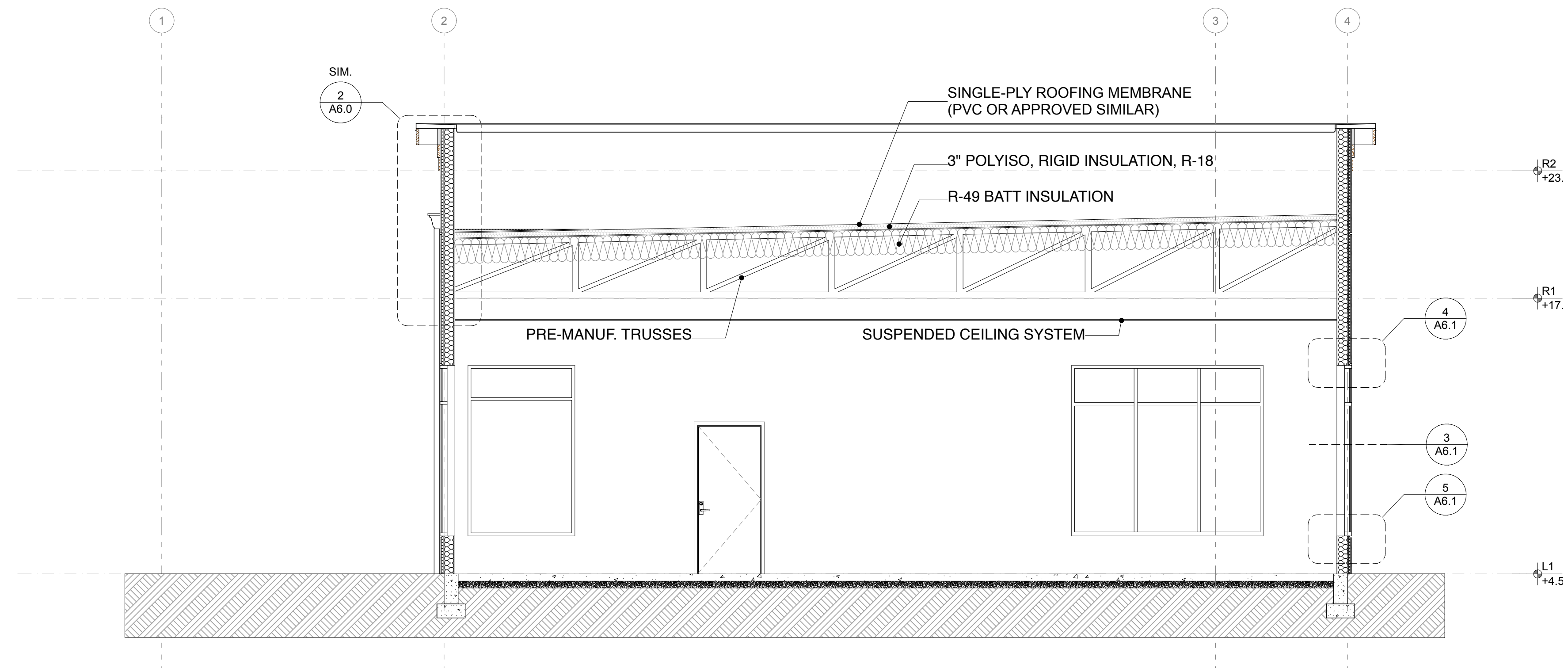
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AGENCY REVIEW | 2025.01.17

REVISIONS	
REVISIONS	
DRAWN BY:	CM / BL
CHECKED BY:	BL
DATE:	2025.01.17
TITLE:	BUILDING SECTIONS
PROJECT #:	2016-L1
SHEET:	



1 BUILDING SECTION 09
SCALE: 1/4" = 1'-0"

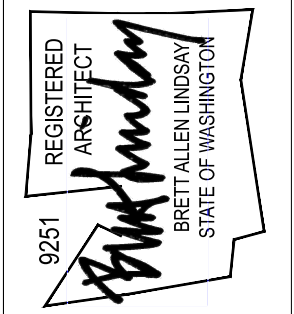


2 BUILDING SECTION 10
SCALE: 1/4" = 1'-0"



SYNTHESIS 9, LLC
652 N. D ST.
TACOMA, WA 98403

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WRITTEN AUTHORIZATION OF SYNTHESIS 9, LLC.



EAST TOWN CROSSING
LOT 1 COMMERCIAL
PIONEER & SHAW PUYALLUP

WINDOW TYPES

ELEVATION						
	TYPE	01	02	03	04	05
	SIZE (W x H)	4'-0"×6'-2"	4'-0"×8'-0"	9'-0"×8'-0"	5'-0"×8'-0"	7'-0"×6'-2"
	QUANTITY	2	4	2	15	2
	U-VALUE	0.34	0.34	0.34	0.34	0.34
	SHGC	0.38	0.38	0.38	0.38	0.38
	NOTES					

DOOR TYPES

ELEVATION		
	TYPE	A
	QUANTITY	3
	FRAME	BLACK ANODIZED ALUM. STOREFRONT
	PANEL	SAFETY GLAZED
	U-VALUE	0.60
		B
		3
		HOLLOW METAL
		INSULATED METAL
		0.37
		N/A
		NOTES

DOOR SCHEDULE

DOOR NUMBER	TYPE	ROOM	DOOR W x HT	NOTES
101A	A	SUITE 101	6'-0"×8'-0"	PANIC HARDWARE
101B	A	SUITE 101	6'-0"×8'-0"	PANIC HARDWARE
101C	B	SUITE 101	3'-0"×7'-0"	PANIC HARDWARE
102A	A	SUITE 102	6'-0"×8'-0"	PANIC HARDWARE (NOT REQUIRED WITH 'B' OCCUPANCY
102B	B	SUITE 102	3'-0"×7'-0"	PANIC HARDWARE (NOT REQUIRED WITH 'B' OCCUPANCY
301A	B	RISER ROOM	3'-0"×7'-0"	

Please revise the accessibility notes to conform to the 2017 edition of the Washington State Accessibility Code (ICC A117.1-2017). [Reference the marked-up document: CONSTRUCTION PLAN SET, sheet A4.0]

DOOR SCHEDULE NOTES:

DOOR OPERATIONS PER 1010.1.9 - EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

DOOR HARDWARE PER 1010.1.9.1 - DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE BY CHAPTER 11 SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.

HARDWARE HEIGHT PER 1010.1.9.2 - DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL BE INSTALLED 34 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FINISHED FLOOR. LOCKS USED ONLY FOR SECURITY PURPOSES AND NOT USED FOR NORMAL OPERATION ARE PERMITTED AT ANY HEIGHT.

ACCESSIBLE THRESHOLDS PER ICC A117.1-2009 SECTION 303 - THRESHOLDS AT DOORWAYS SHALL BE 1/2" MAXIMUM IN HEIGHT.

DOOR CLOSERS PER ICC A117.1-2009 - DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THROUGH THE DOOR TO AN OPEN POSITION OF 12 DEGREES SHALL BE 5 SECONDS.

DOOR-OPENING FORCE PER ICC A117.1-2009 - THE FORCE FOR PUSHING OR PULLING OPEN DOORS SHALL BE 10.0 POUNDS MAXIMUM PER WASHINGTON STATE AMMENDMENT.

DOOR HARDWARE LOCKSETS and DEFINITIONS

SECURITY LOCKSET - THE LATCHBOLT IS RETRACTED BY THE GRIP ON EITHER SIDE UNLESS THE OUTSIDE GRIP IS LOCKED BY THE OUTSIDE KEY. OPERATING THE INSIDE GRIP ALWAYS RETRACTS THE LATCHBOLT.

ACCESSIBLE SECURITY LOCKSET - THE LATCHBOLT IS RETRACTED BY THE GRIP ON EITHER SIDE UNLESS THE OUTSIDE GRIP IS LOCKED BY EITHER THE INSIDE KEY OR THE OUTSIDE KEY. OPERATING THE INSIDE GRIP ALWAYS RETRACTS THE LATCHBOLT. ALL COMPONENTS OF THE DOOR HARDWARE TO MEET ACCESSIBILITY REQUIREMENTS OF SECTION 1010.1.9 OF THE 2015 IBC.

OFFICE LOCKSET - THE LATCHBOLT IS RETRACTED BY THE GRIP ON EITHER SIDE UNLESS THE OUTSIDE GRIP IS LOCKED BY THE TOGGLE OR OUTSIDE KEY. OPERATING THE INSIDE GRIP DOES NOT UNLOCK THE OUTSIDE GRIP.

PASSAGE LOCKSET - THE LATCHBOLT IS ALWAYS RETRACTED BY THE GRIP ON EITHER SIDE. BOTH GRIPS ARE ALWAYS FREE.

PRIVACY LOCKSET - THE LATCHBOLT IS RETRACTED BY THE GRIP ON EITHER SIDE UNLESS THE OUTSIDE GRIP IS LOCKED BY THE INSIDE THUMB-TURN, BUTTON OR KEY. OPERATING THE INSIDE GRIP UNLOCKS THE OUTSIDE GRIP. AN EMERGENCY RELEASE TOOL UNLOCKS THE OUTSIDE GRIP. THE OUTSIDE GRIP IS ALSO UNLOCKED WHEN THE DOOR IS CLOSED. DOOR CAN ONLY BE LOCKED FROM THE INSIDE WHEN THE DOOR IS CLOSED.

PUBLIC RESTROOM LOCKSET - THE LATCHBOLT IS RETRACTED BY THE INSIDE GRIP OR AN OUTSIDE KEY. THE LATCHBOLT IS RETRACTED BY THE OUTSIDE GRIP INLESS THE GRIP IS LOCKED BY A KEY FROM THE INSIDE. THE LATCHBOLT / OUTSIDE GRIP CANNOT BE LOCKET BY A KEY FROM THE OUTSIDE. ALL COMPONENTS OF THE DOOR HARDWARE GROUP TO MEET ACCESSIBILITY REQUIREMENTS OF SECTION 1010.1.9 OF THE 2015 IBC.

STOREROOM LOCKSET - THE LATCHBOLT IS RETRACTED BY THE INSIDE GRIP OR OUTSIDE KEY.

CLOSET LOCKSET - THE LATCHBOLT IS RETRACTED BY THE OUTSIDE AND THE INSIDE GRIP AND THE GRIP CANNOT BE LOCKED.

GLAZING NOTES:

1. GLAZING IN ALL FIXED AND OPERABLE PANELS OF SWINGING, SLIDING AND BIFOLD DOORS SHALL BE CONSIDERED HAZARDOUS LOCATIONS.

2. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE OF THE GLAZING IS WITHIN A 24-INCH ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE WALKING SURFACE SHALL BE CONSIDERED A HAZARDOUS LOCATION.

3. GLAZING IN INDIVIDUAL FIXED OR OPERABLE PANEL OF A WINDOW THAT MEETS ALL OF THE FOLLOWING FOUR CONDITIONS SHALL BE CONSIDERED A HAZARDOUS LOCATION: 1. THE EXPOSED AREA OF AN INDIVIDUAL PANE IS GREATER THAN 9 SQAURE FEET; 2. THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18 INCHES ABOVE THE FLOOR; 3. THE TOP EDGE OF THE GLAZING IS GREATER THAN 36 INCHES ABOVE THE FLOOR; AND 4. ONE OR MORE WALKING SURFACE(S) ARE WITHIN 36 INCHES, MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE PLANE OF THE GLAZING

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AGENCY REVIEW | 2025.01.17

REVISIONS	
REVISIONS	
DRAWN BY:	CM / BL
CHECKED BY:	BL
DATE:	2025.01.17
TITLE:	DOORS & WINDOWS
PROJECT #:	2016-L1
SHEET:	
A4.0	

EXCEPTIONS:

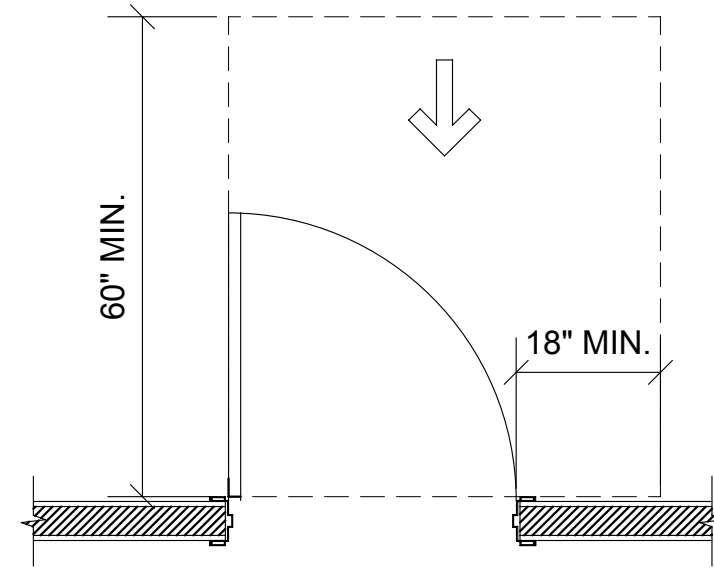
1. DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES MINIMUM ABOVE THE FLOOR.
2. IN ALTERATIONS, A PROJECTION OF 5/8" MAXIMUM INTO THE REQUIRED CLEAR OPENING WIDTH SHALL BE PERMITTED FROM THE LATCH SIDE STOP.

32" MIN.

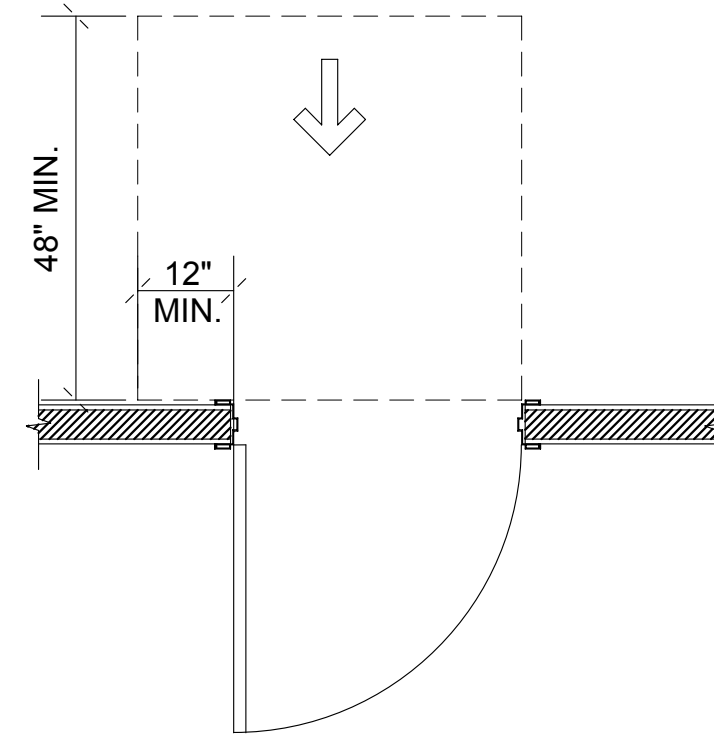
A technical drawing of a door. The door is shown in a closed position, with a curved line indicating its swing. The width of the door is labeled as 32" MIN. The door is shown in a side view, with a handle and a lock mechanism visible on the right side. The drawing is a line drawing with no shading.

32" MIN.

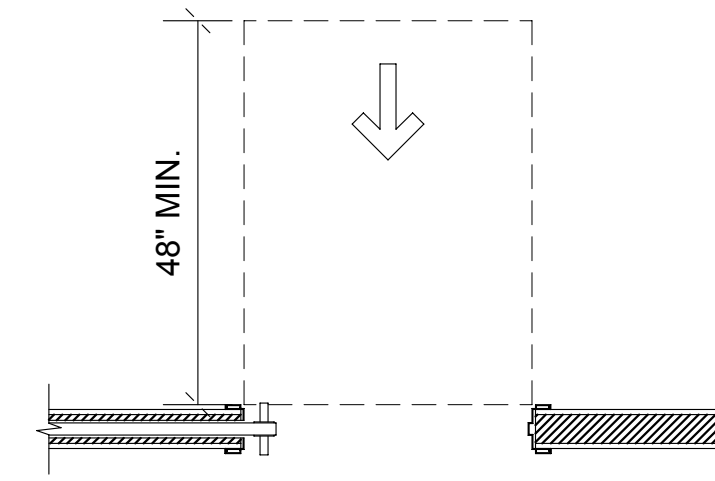
CLEAR WIDTH OF OPENINGS



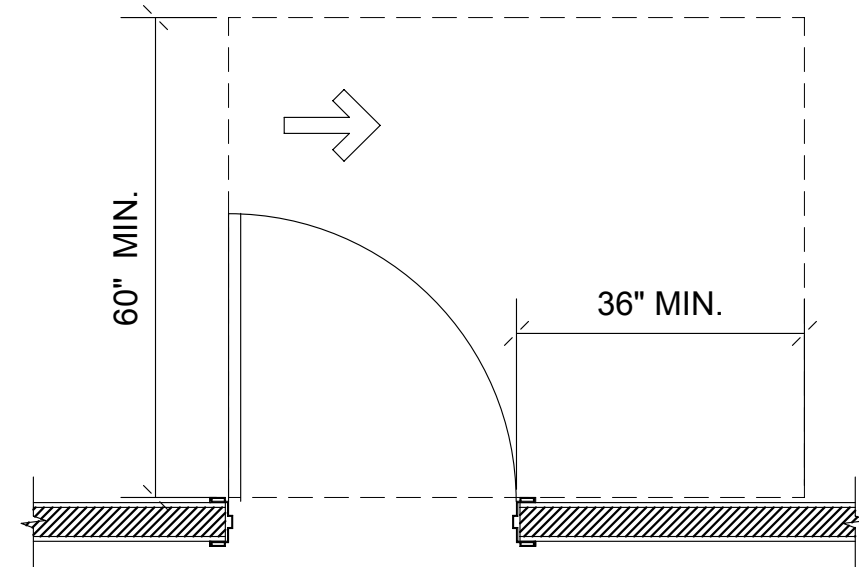
FRONT APPROACH, PULL SIDE



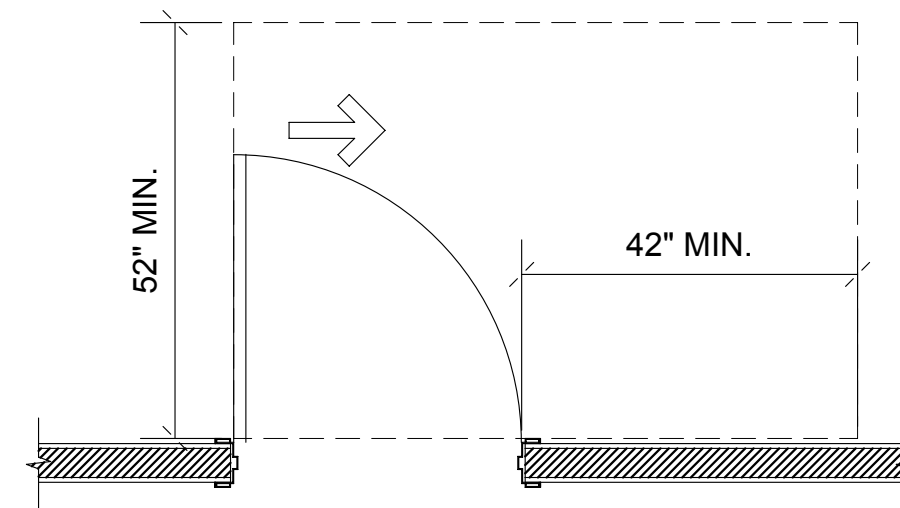
FRONT APPROACH, PUSH SIDE



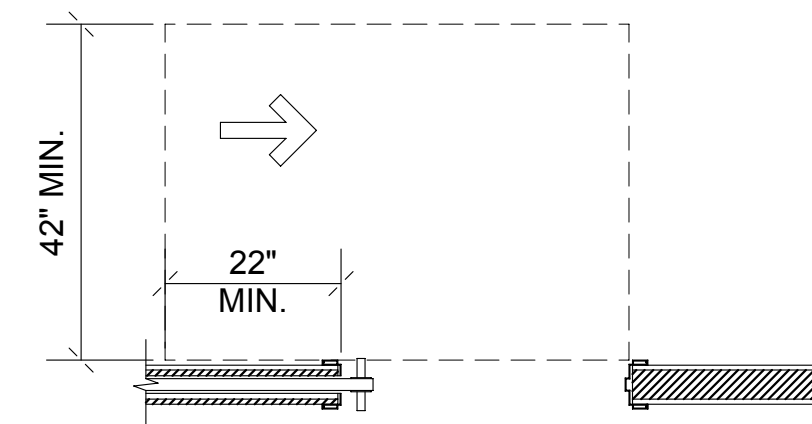
FRONT APPROACH, POCKET



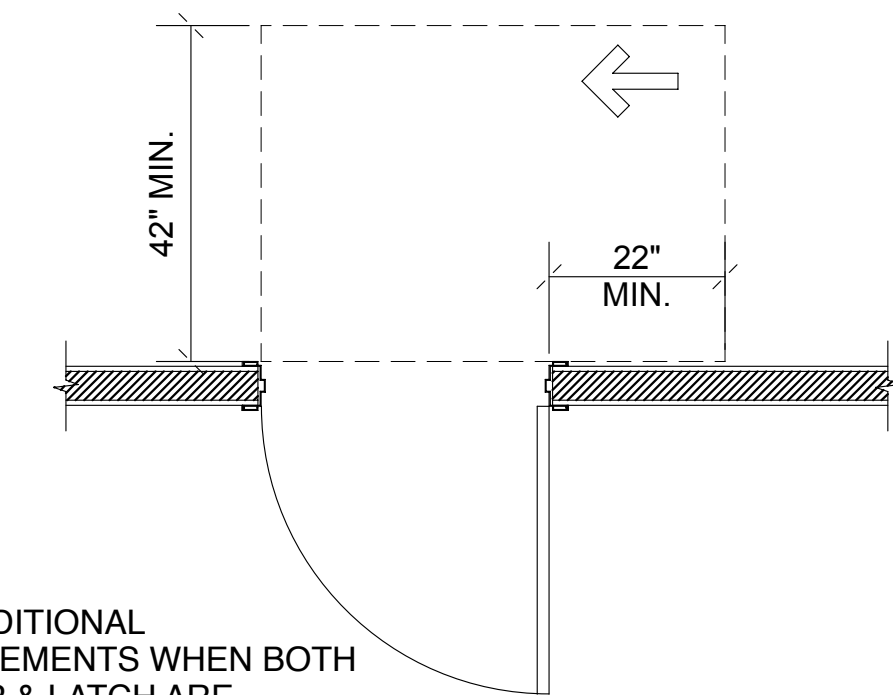
HINGE APPROACH, PULL SIDE



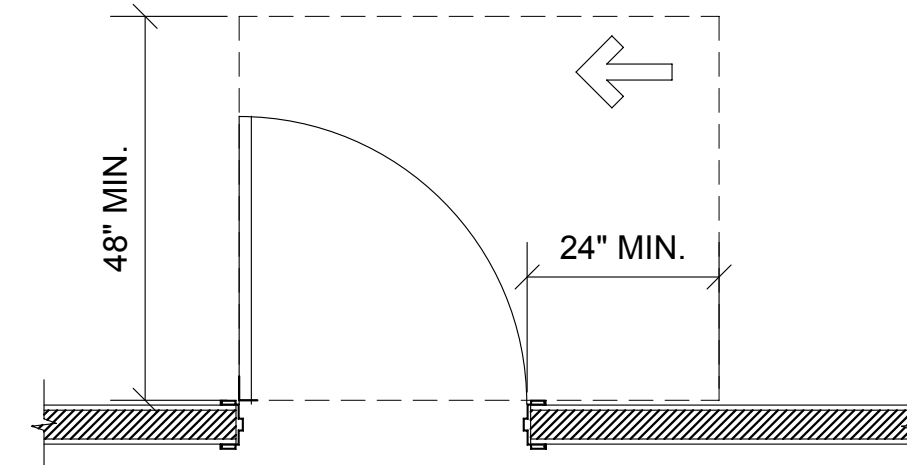
HINGE APPROACH, PULL SIDE



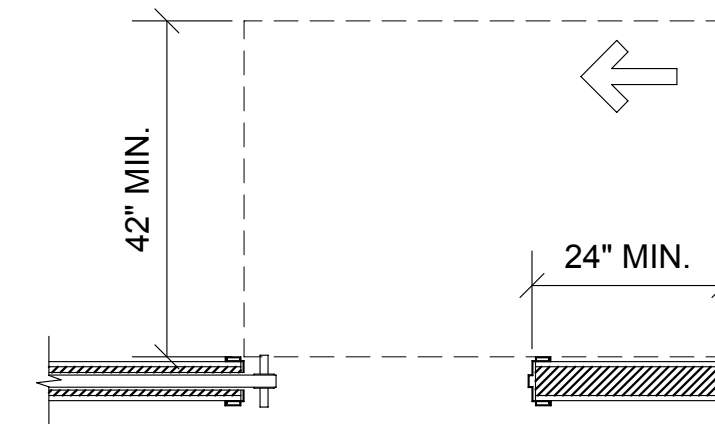
POCKET OR HINGE APPROACH



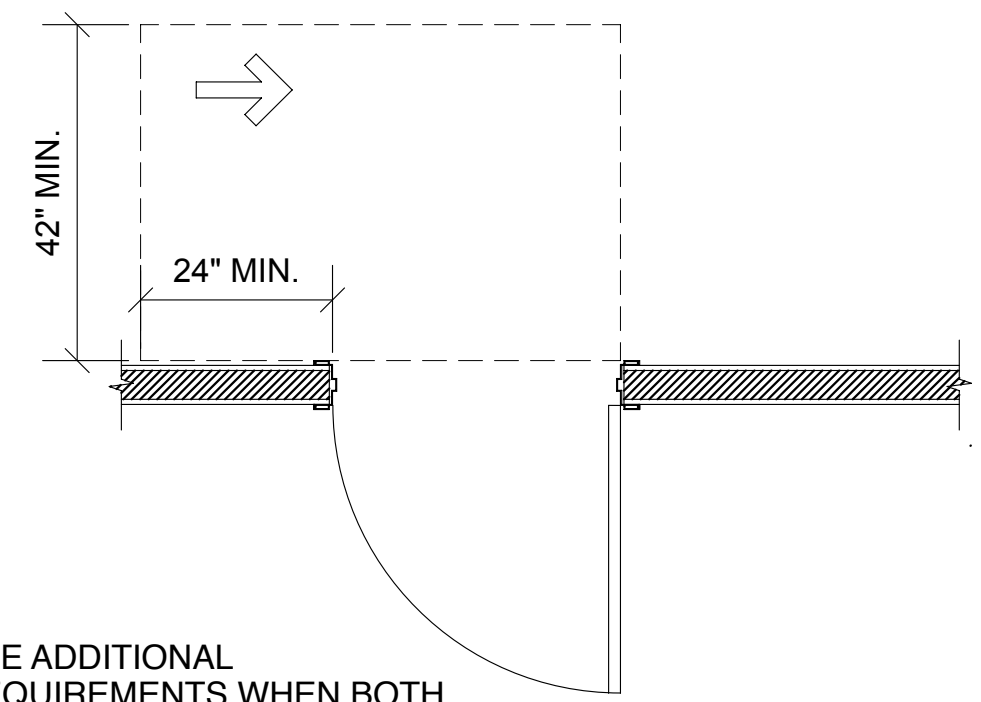
HINGE APPROACH, PUSH SIDE



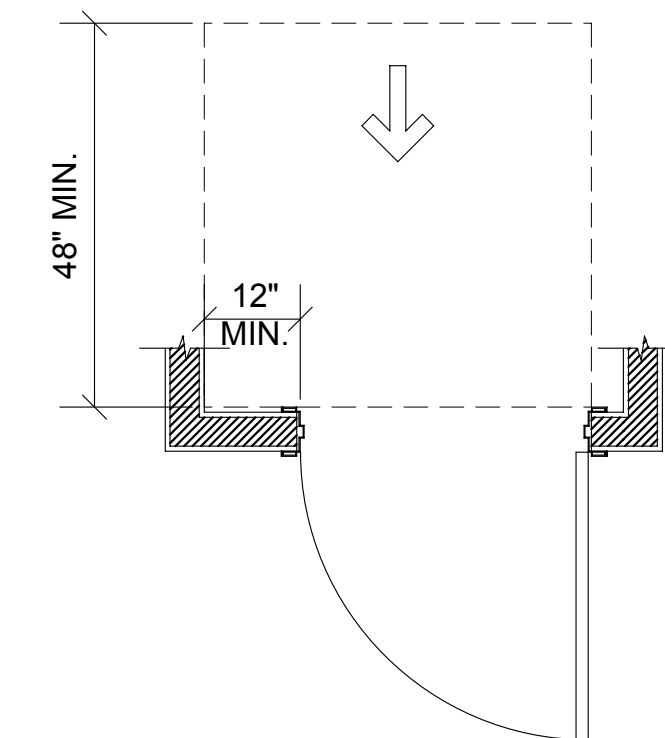
LATCH APPROACH, PULL SIDE



STOP OR LATCH APPROACH



LATCH APPROACH, PUSH SIDE



PUSH SIDE, W/ CLOSER & LATCH

1 ROOF DETAIL - 02
SCALE: 1 1/2" = 1'-0"

WALL
PER PLAN

6 MIL PLASTIC VAPOR BARRIER

R-10 RIGID INSULATION

PER STRUCT.

PER STRUCTURAL

WALL PER PLAN

SLOPE AWAY FROM BUILDING

1'-5"

4"

PER STRUCT.

PER STRUCT.

PER STRUCTURAL

8"

Technical drawing of a wall cross-section. The drawing shows a vertical wall section with various materials and structural details. At the top, a section is labeled "WALL PER PLAN". Below this, there is a sloped section labeled "SLOPE AWAY FROM BUILDING". The wall has a total height of 1'-5" and a base thickness of 4". The wall is supported by a foundation labeled "PER STRUCT." and "PER STRUCTURAL". The foundation has a depth of 8". The wall is shown with a cross-hatched pattern, indicating a specific material or structural detail. The drawing includes various structural elements such as reinforcement bars, a drainage pipe, and a foundation slab. The drawing is a technical cross-section showing the wall's profile and its connection to the foundation and ground. The wall is shown with a cross-hatched pattern, indicating a specific material or structural detail. The drawing includes various structural elements such as reinforcement bars, a drainage pipe, and a foundation slab. The drawing is a technical cross-section showing the wall's profile and its connection to the foundation and ground.

Figure 1: Typical Section Through a Wall and Floor. This cross-section diagram illustrates the construction of a wall and floor assembly. The wall features a concrete block core with a brick veneer on the exterior. The floor is shown above the wall. A vertical pipe or duct is shown passing through the wall and floor. The diagram is labeled "PER STRUCT." on the right side, indicating it is a typical section through the structure.

Technical drawing of a wall cross-section. The drawing shows a wall with a "WALL PER PLAN" label at the top. The wall is shown in cross-section, revealing internal structure and reinforcement. The drawing includes several dimensions and labels:

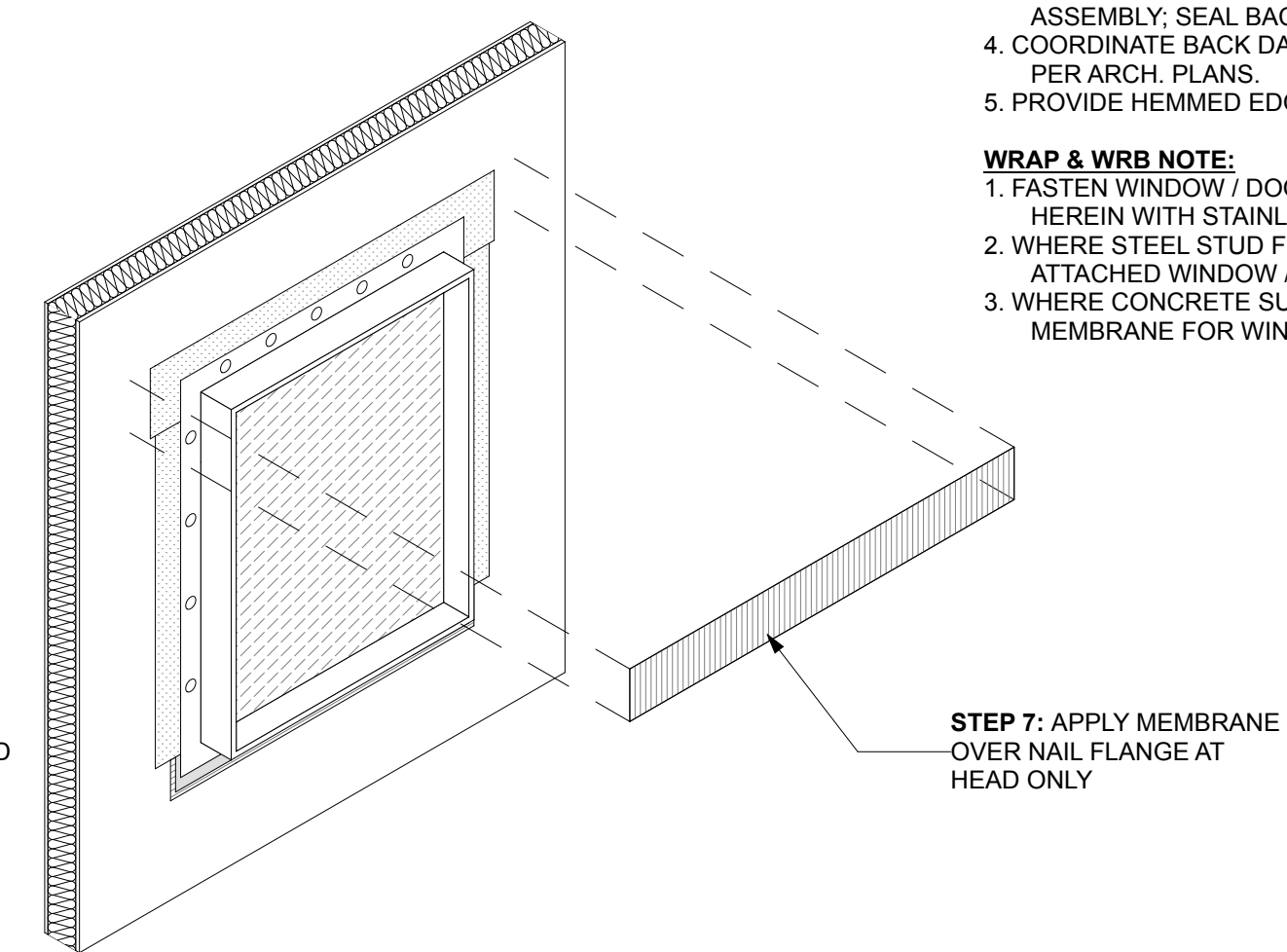
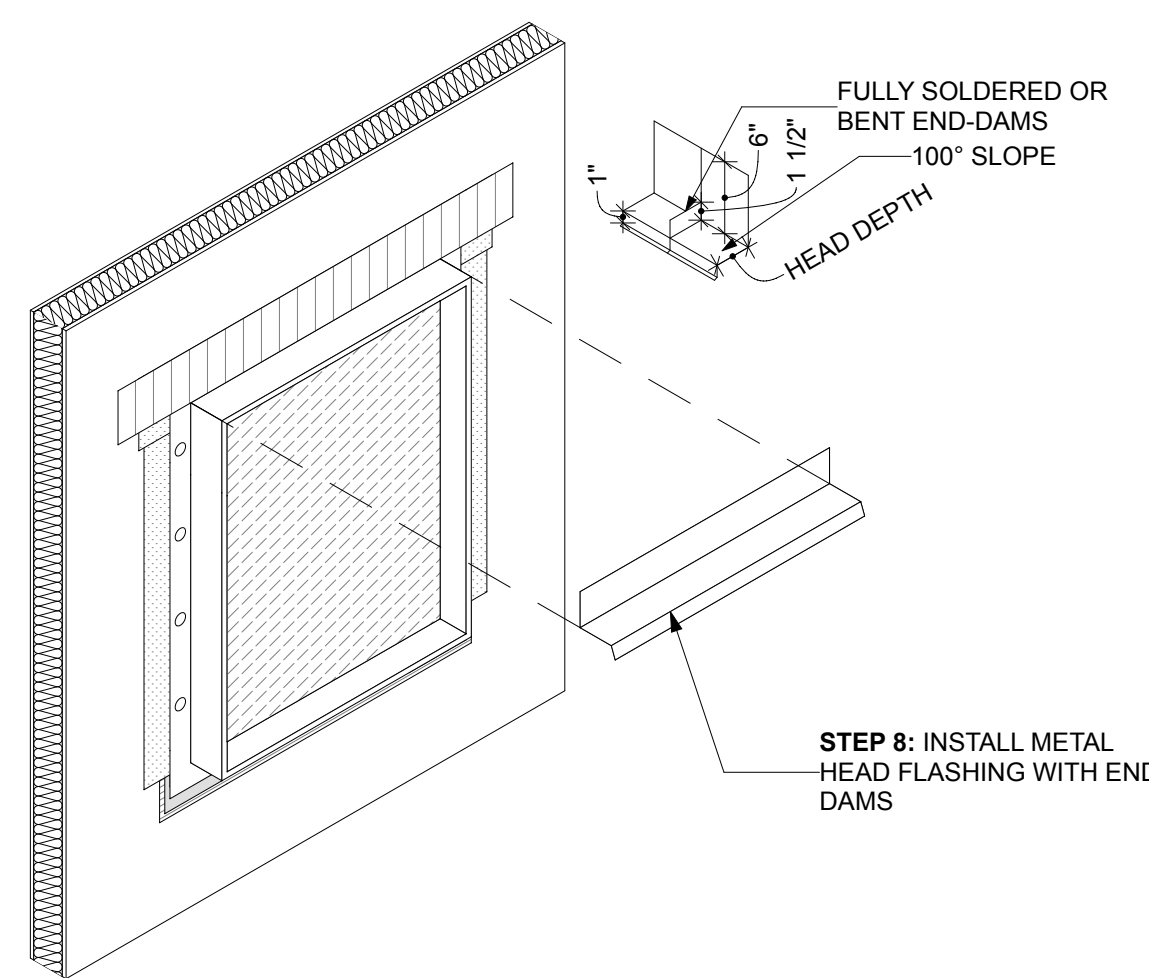
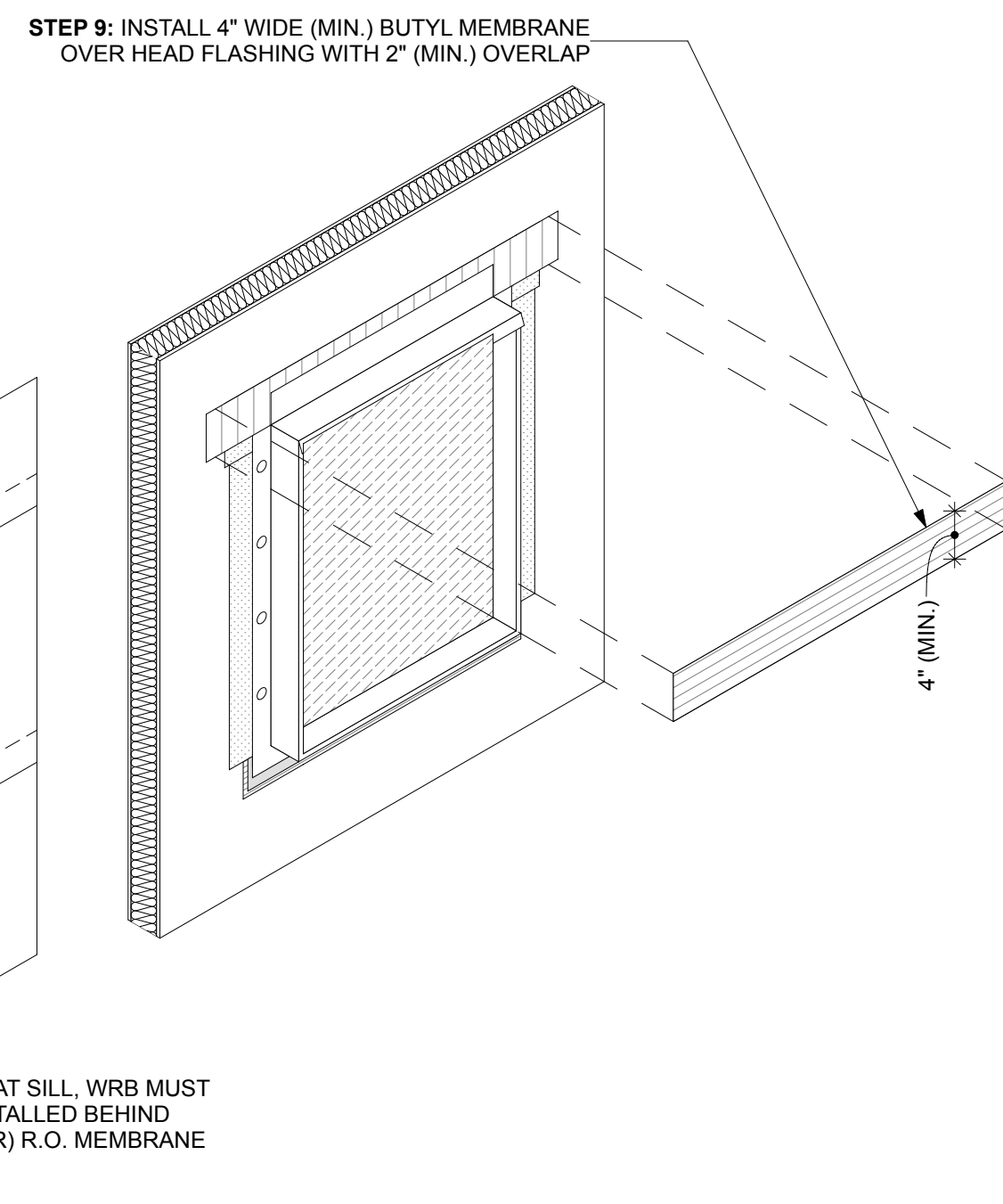
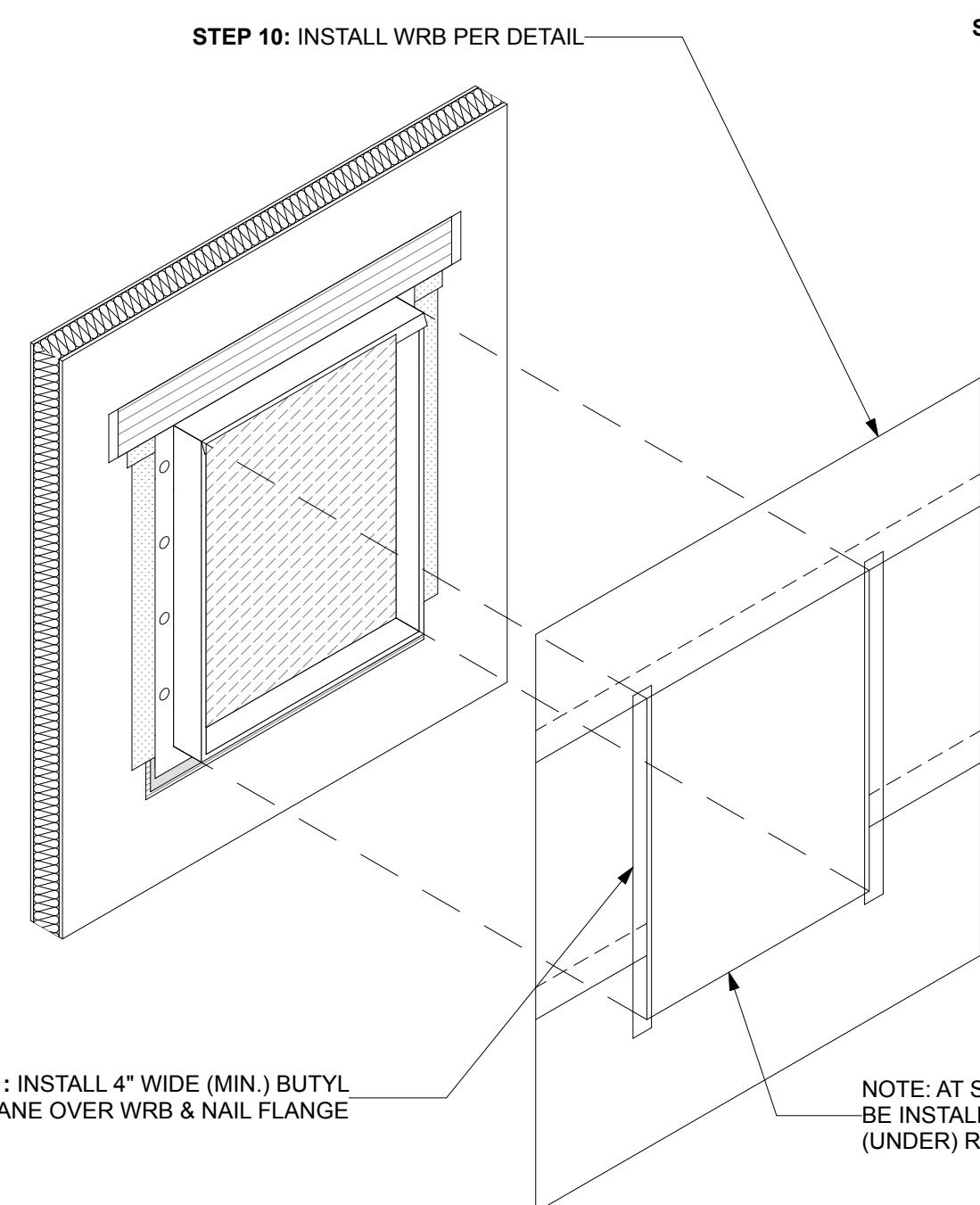
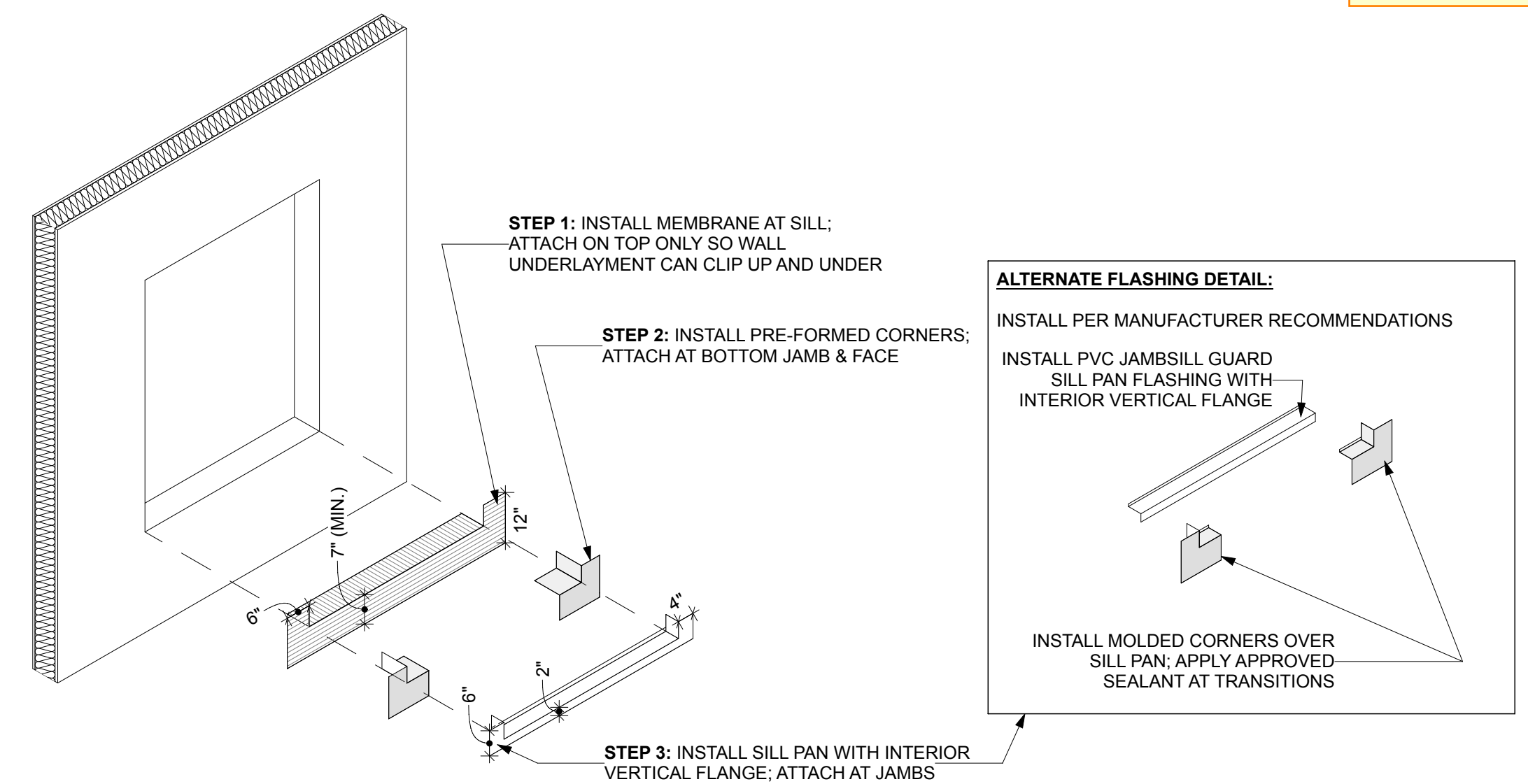
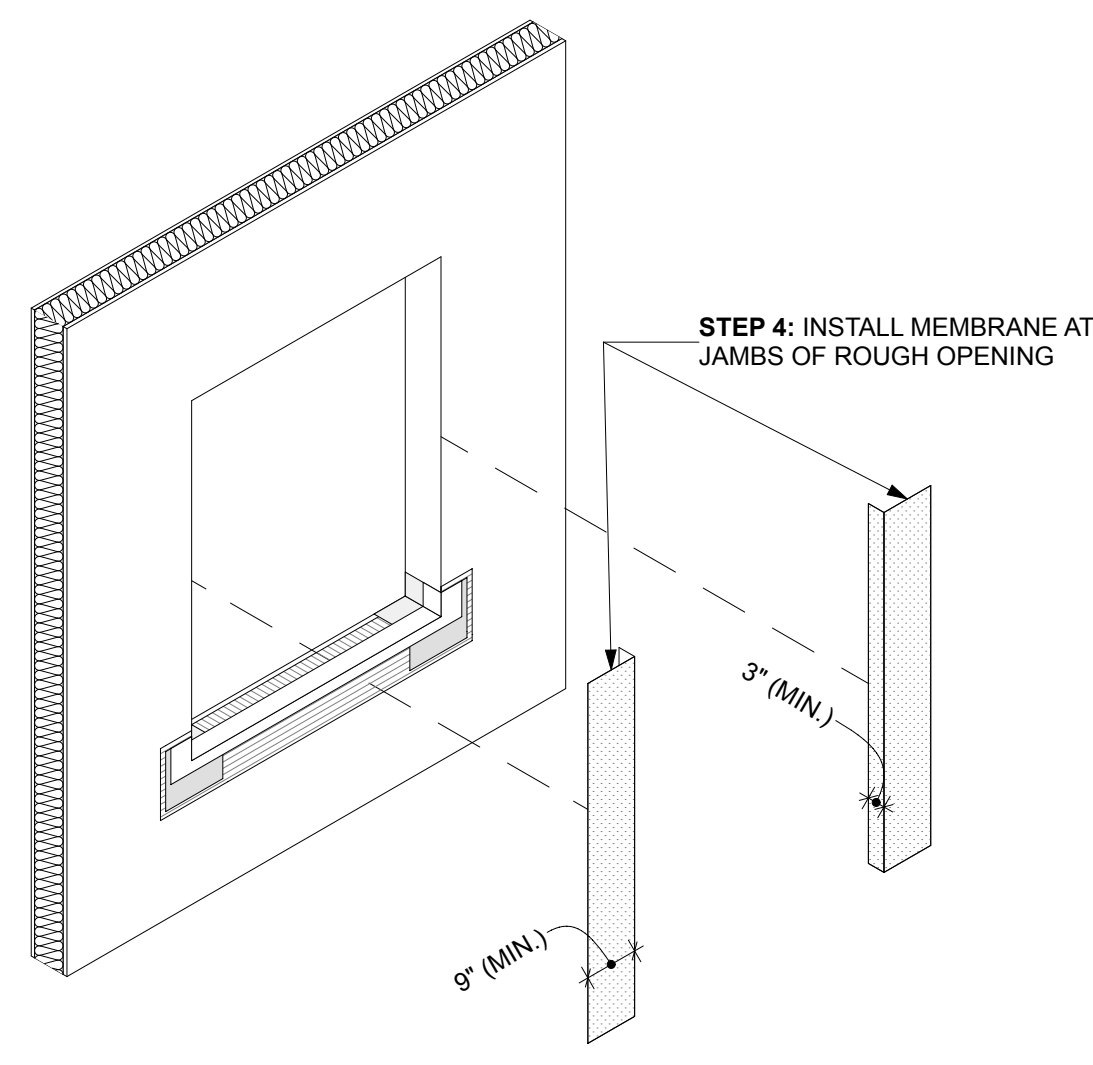
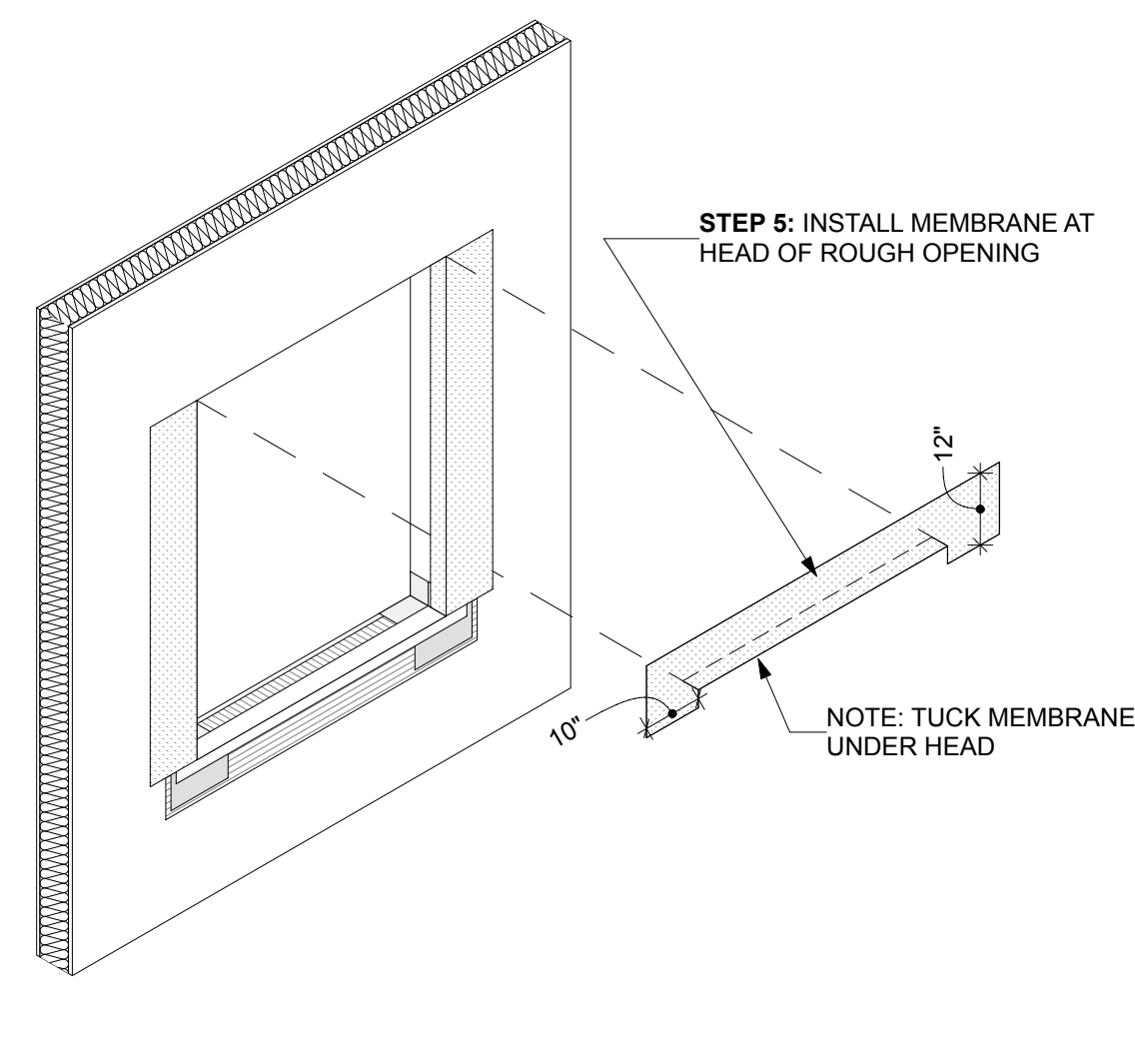
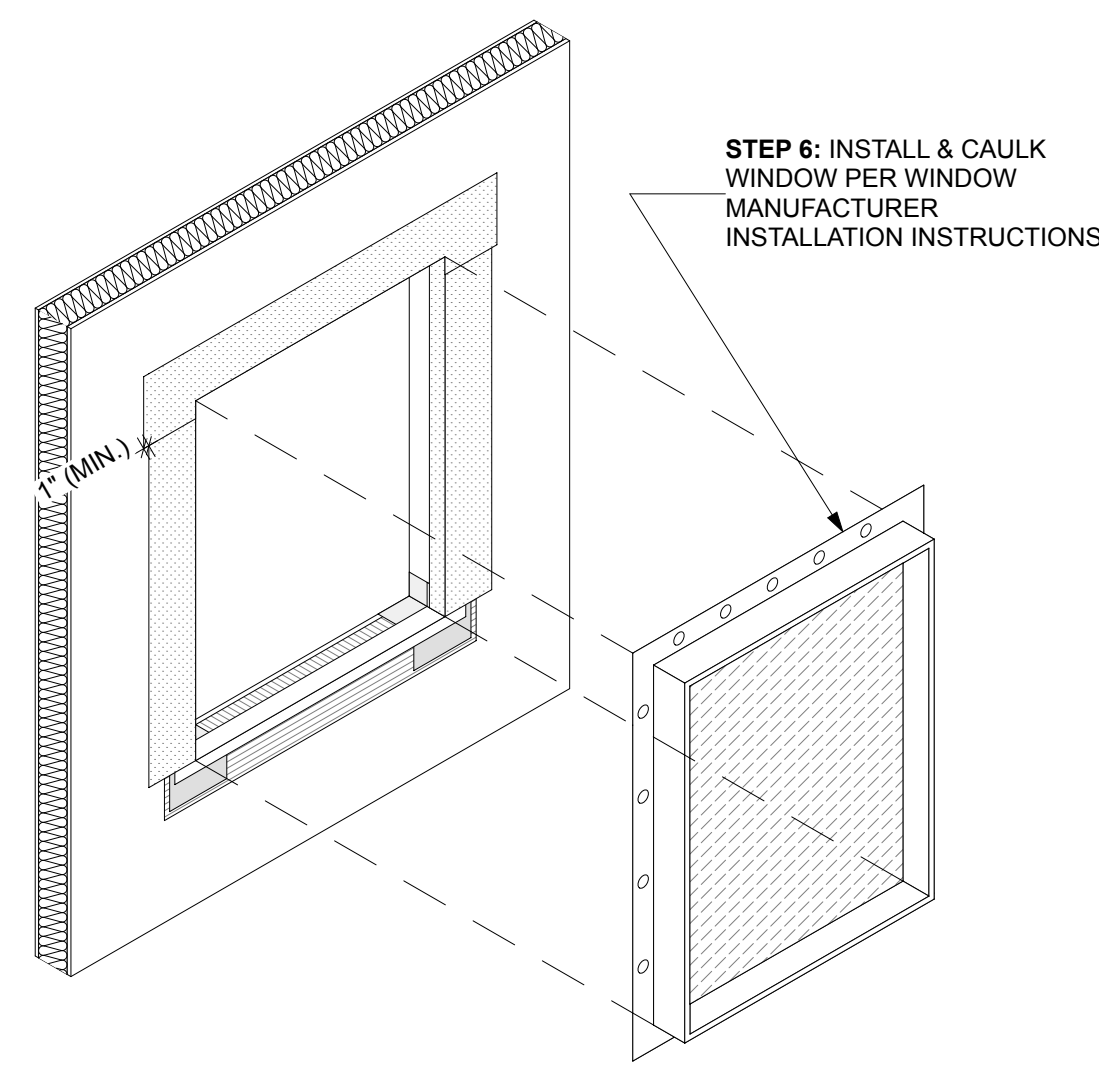
- GRID**: A circular symbol with the word "GRID" inside, located at the top center.
- WALL PER PLAN**: A label pointing to the top of the wall.
- FINISH GRADE**: A label pointing to the ground level on the left side.
- PER STRUCT.**: A label pointing to the structural wall on the right side.
- PER STRUCT.**: A label pointing to the structural wall on the bottom right side.
- PER STRUCTURAL**: A label pointing to the bottom of the wall.
- Dimensions**:
 - 18" MIN.**: A vertical dimension on the left side.
 - 8"**: A vertical dimension on the left side.
 - 1'-0"**: A vertical dimension on the left side.
 - 6" MIN.**: A vertical dimension on the left side.
 - 4"**: A horizontal dimension on the right side.

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REVISIONS	
DRAWN BY:	CM / BL
CHECKED BY:	BL
DATE:	2025.01.17
TITLE:	DETAILS
PROJECT #:	2016-L1
SHEET:	

AGENCY REVIEW | 2025.01.17

A6.0

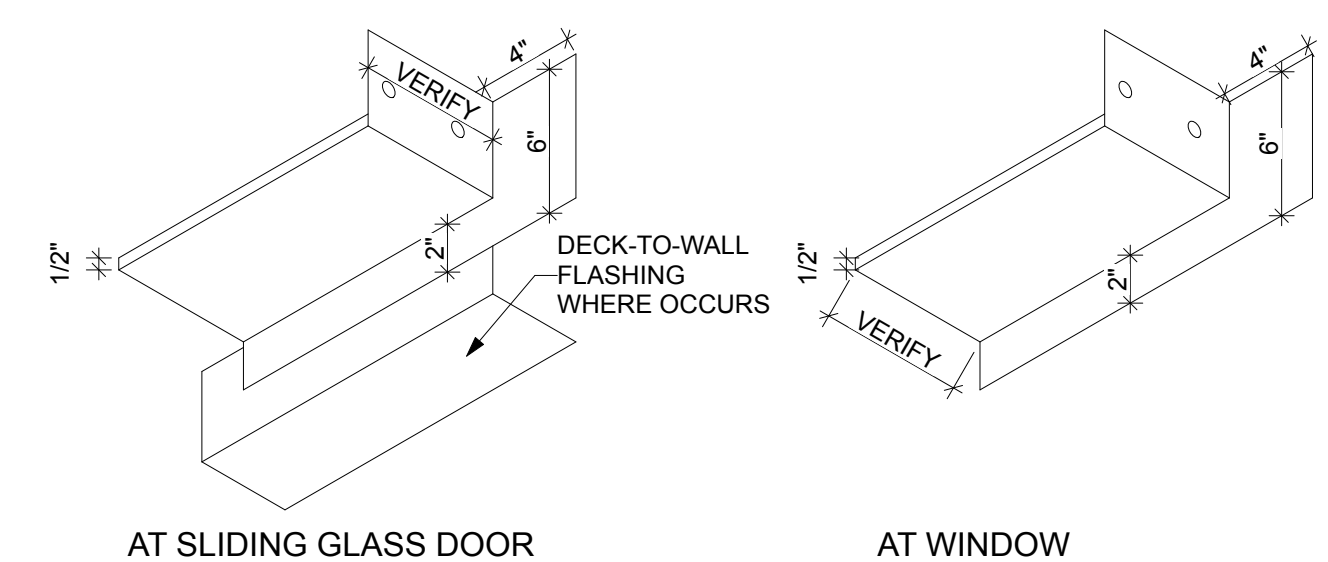


SILL PLAN NOTES:

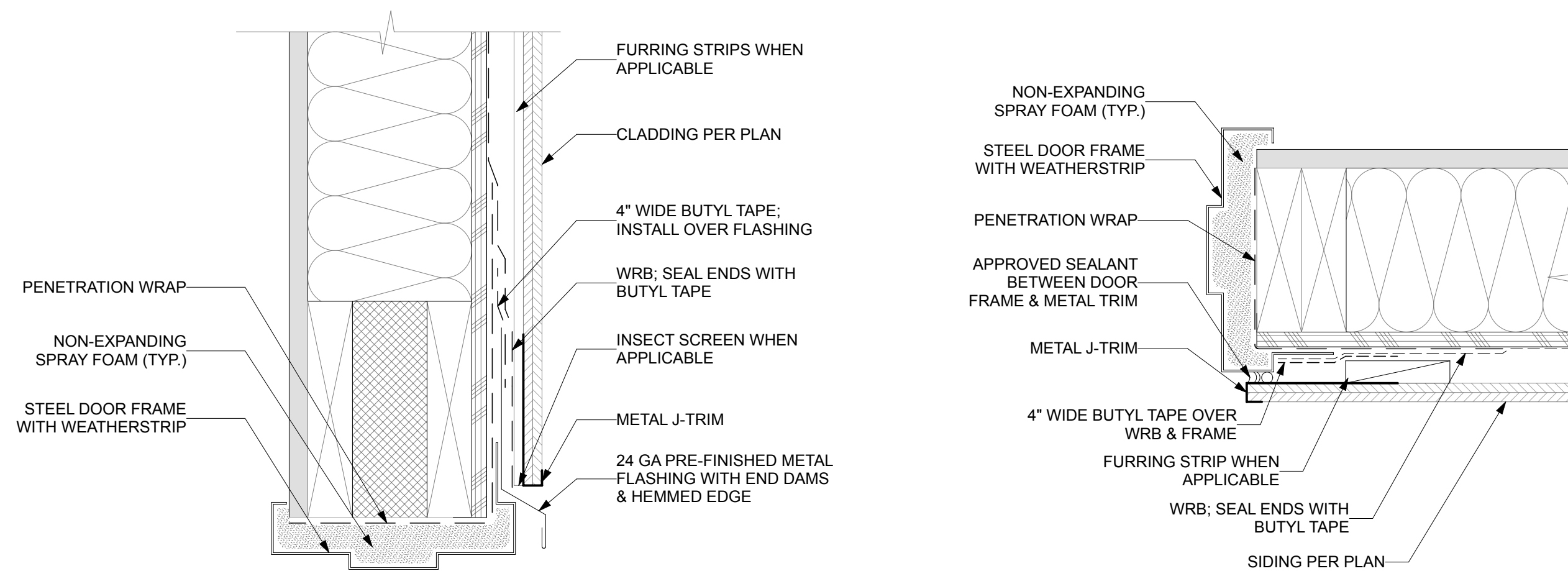
1. ALL PANS AT MASONRY TO BE STAINLESS STEEL OR 24 GA GALV. PRE-FINISHED.
2. RESIDENTIAL WINDOW WALL SYSTEMS TO HAVE ALUMINUM PANS & FLASHINGS
PER DETAILS TO MATCH WINDOW FRAME COLORS.
3. SEAL OR SOLDER JOINTS AT EAVE & BACK DAMS TO FORM A WATERTIGHT PAN
AS NEEDED. JACK TO END DAM TRANSITIONS.
4. COORDINATE BACK DAM HEIGHT WITH THRESHOLD AND/OR INTERIOR FINISHES
PER ARCH. PLANS.
5. PROVIDE HEMMED EDGE AT ALL EXPOSED EDGES.

WRAP & WRB NOTE:

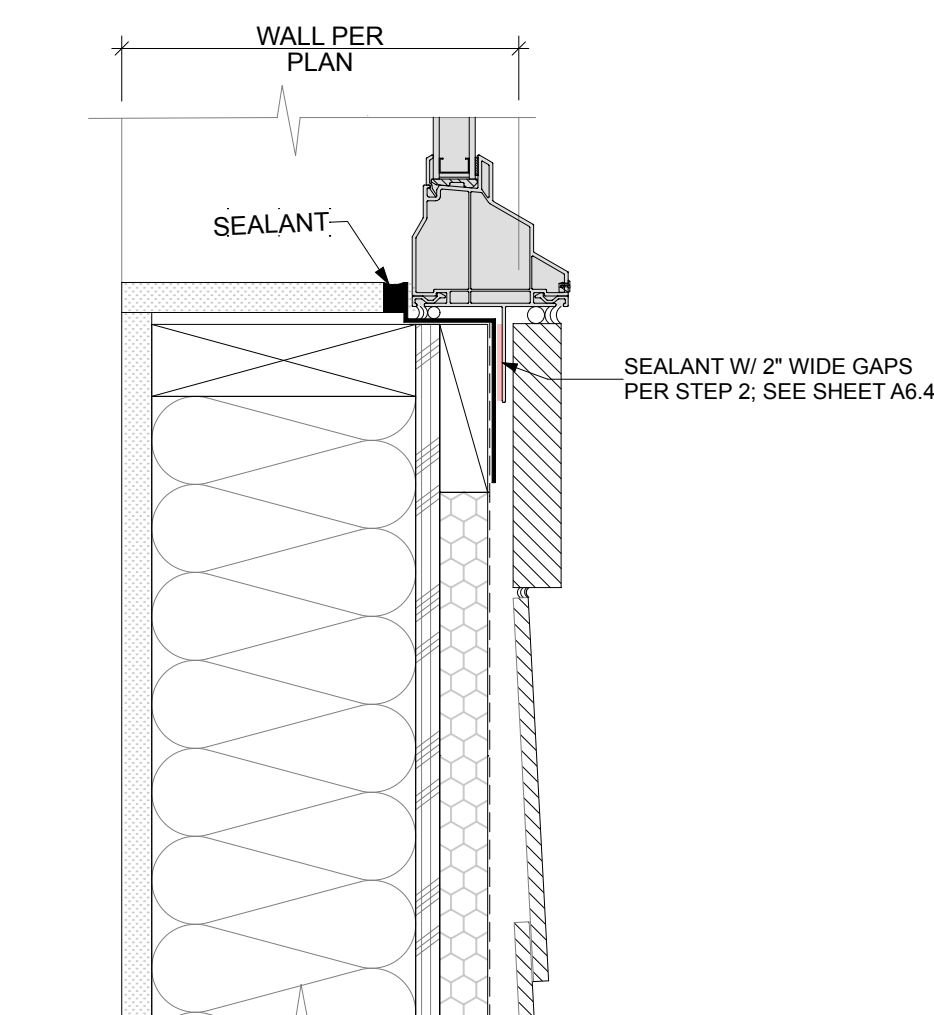
1. FASTEN WINDOW / DOOR WRAP & WRB PER WATERPROOFING DETAILS PROVIDED HEREIN WITH STAINLESS STEEL STAPLES WITH 7/16" CROWNS.
2. WHERE STEEL STUD FRAMING OCCURS, USE APPROVED ADHESIVE TO PROPERLY ATTACHED WINDOW / DOOR WRAP THERETO.
3. WHERE CONCRETE SURFACES OCCUR, USE VAPROSHIELD SELF-ADHERING MEMBRANE FOR WINDOW / DOOR WRAPS AND WRB.



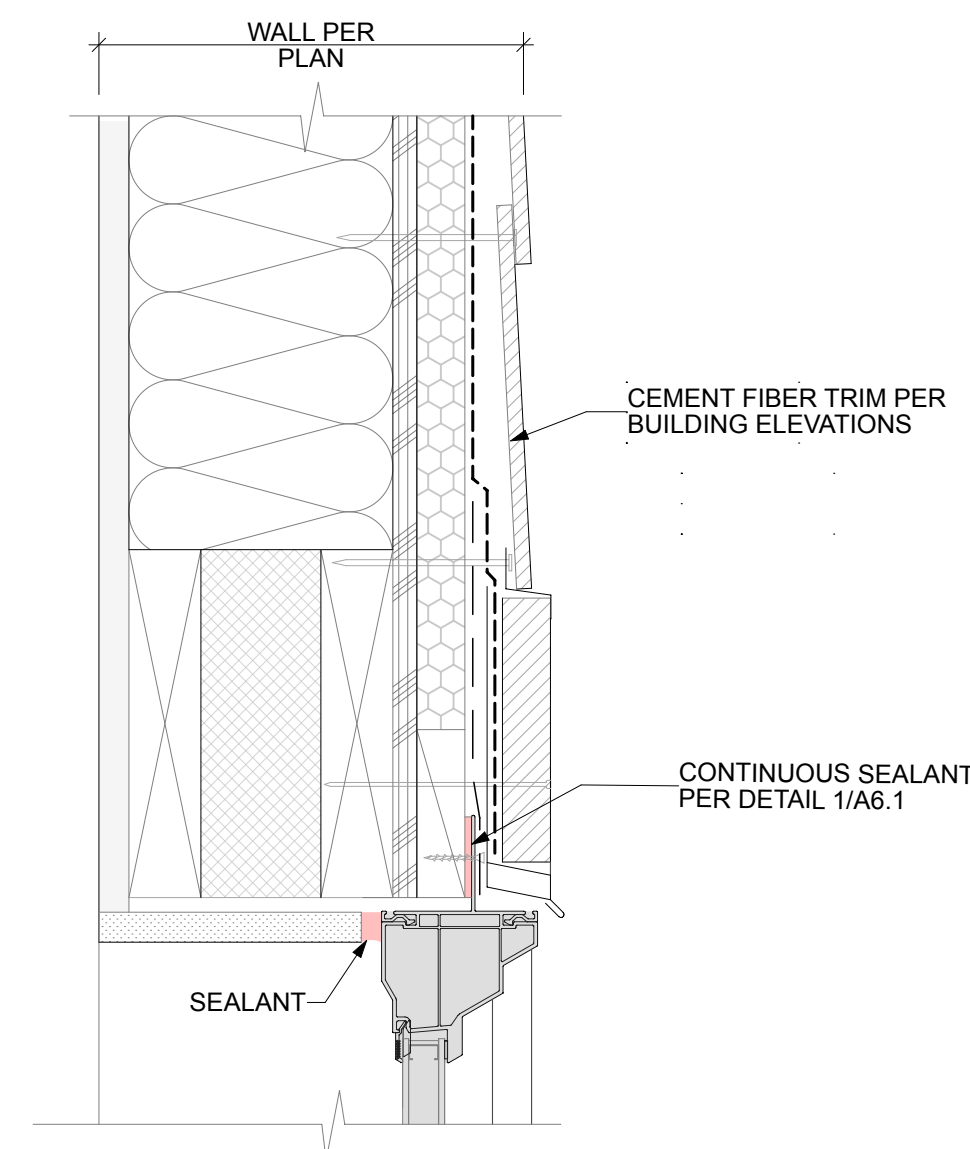
1 FLANGED WINDOW WRAP



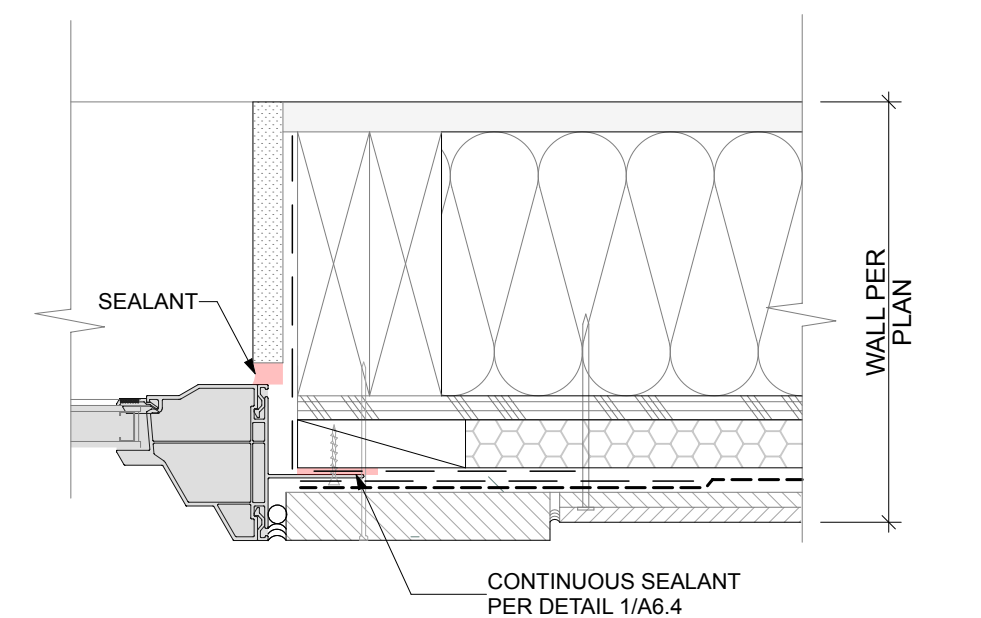
7 DOOR HEAD AT EXTERIOR WALL
SCALE: 3" = 1'-0"



5 WINDOW SILL DETAIL



4 WINDOW HEAD DETAIL

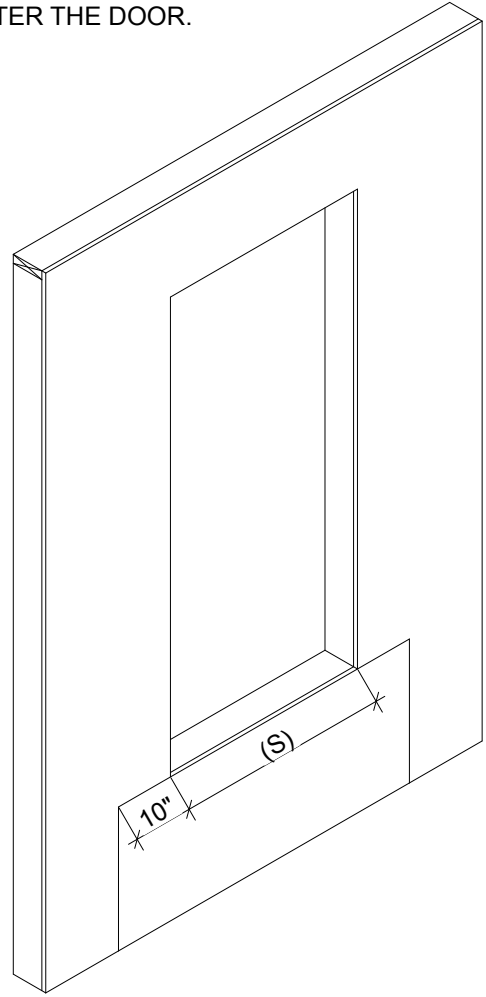


3 WINDOW JAMB DETAIL

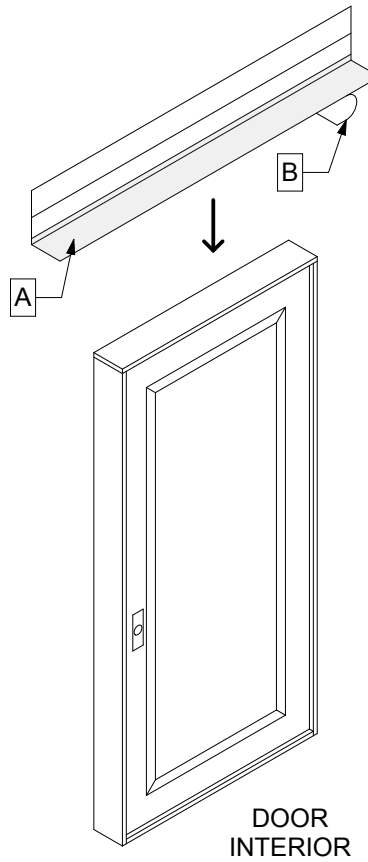
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AGENCY REVIEW | 2025.01.17

STEP 1
ATTACH APRON WRB UNDER SILL (S). APRON SHOULD EXTEND AT LEAST 10" BEYOND SIDES OF ROUGH OPENING JAMBS (OR TO FIRST STUD IN OPEN STUD CONSTRUCTION), AND FAR ENOUGH BELOW THE ROUGH OPENING TO OVERLAP THE SILL PLAN OR THE WRB BELOW. THE TOP OF THE APRON SHOULD BE SECURELY ATTACHED TO THE WALL AND THE BOTTOM OF THE APRON SHOULD BE LEFT UNSECURED SO IT CAN OVERLAP THE WRB WHICH WILL BE INSTALLED AFTER THE DOOR.

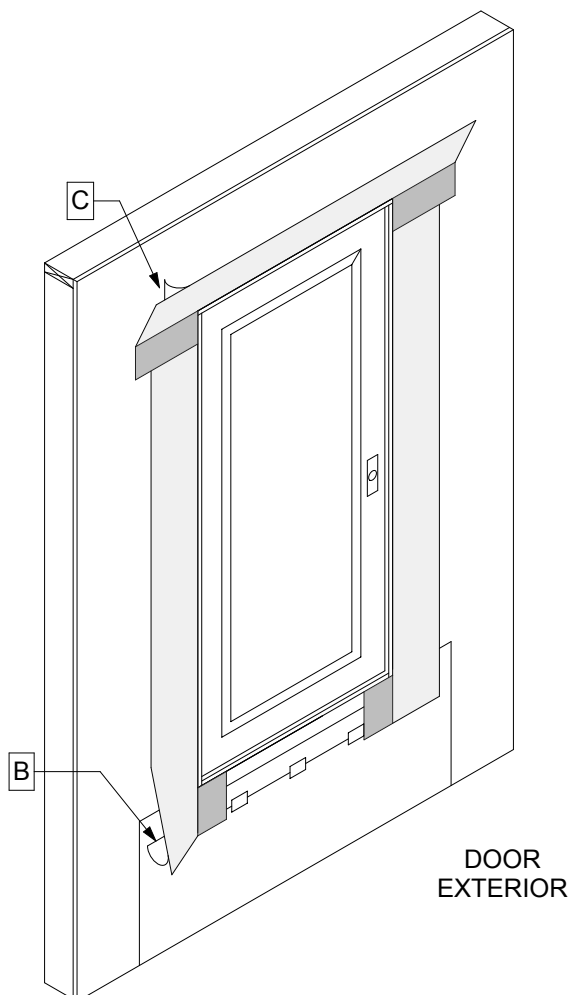


- A. PREPARE HEAD FLASHING BY CUTTING A PIECE OF STRAIGHT FLASH VF AT LEAST 12" LONGER THAN THE HEAD LENGTH.
- B. REMOVE THE RELEASE PAPER FROM ONE SIDE OF STRAIGHT FLASH VF.
- C. CENTER THE STRAIGHT FLASH VF ALONG THE LENGTH OF THE DOOR AND POSITION SO THAT IT CONTACTS THE FRAME.
- D. BEGIN AT THE JUNCTION OF THE JAMB AND HEAD AND AWAY FROM THE CORNERS CUT THE STRAIGHT FLASH VF ALONG THE CORNER AT A 45 DEGREE ANGLE.
- E. FOLD THE NEWLY CREATED FLASHING FLAPS DOWN PARALLEL TO THE DOOR FRAME.
- F. FOLD REMAINING HEAD FLASHING ONTO THE JAMB.

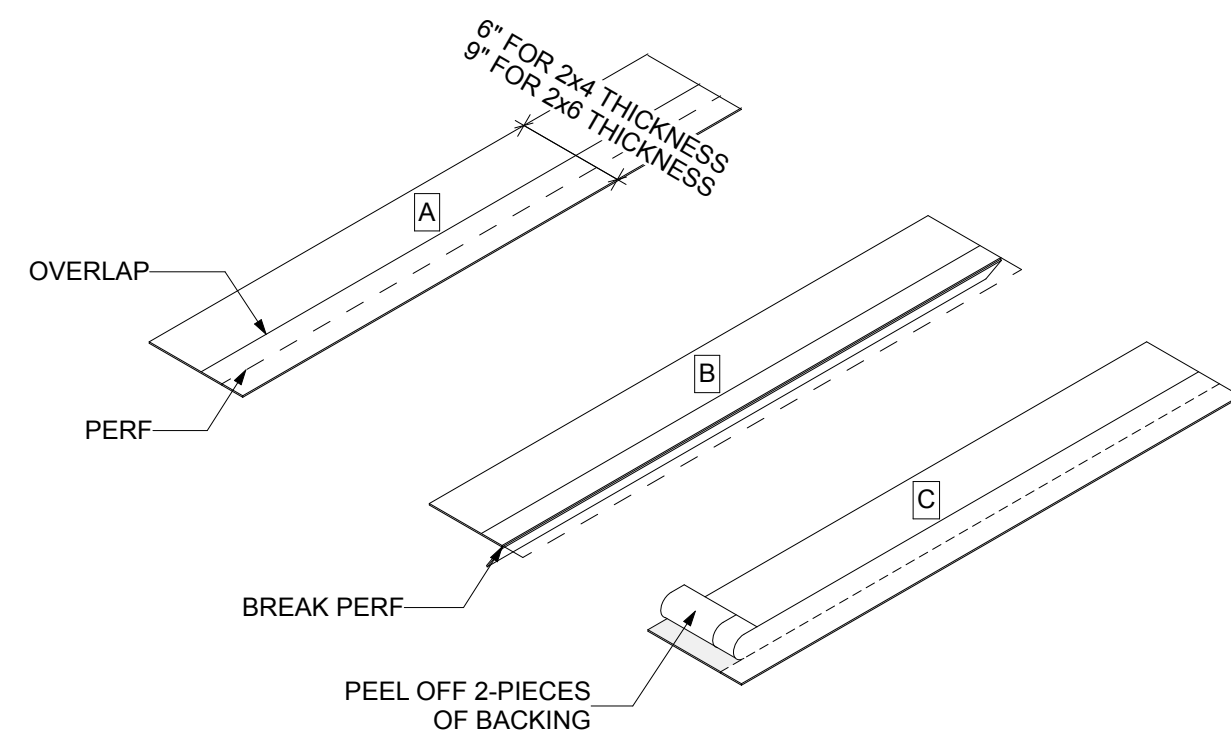


- A. INSTALL DOOR ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- B. REMOVE THE REMAINING RELEASE PAPER FROM THE STRAIGHT FLASH VF JAMB FLASHING AND PRESS FIRMLY TO ADHERE TO THE WRB.
- C. REMOVE THE RELEASE PAPER AT THE HEAD AND ADHERE IT TO THE EXTERIOR SHEATHING OR FRAMING MEMBERS.

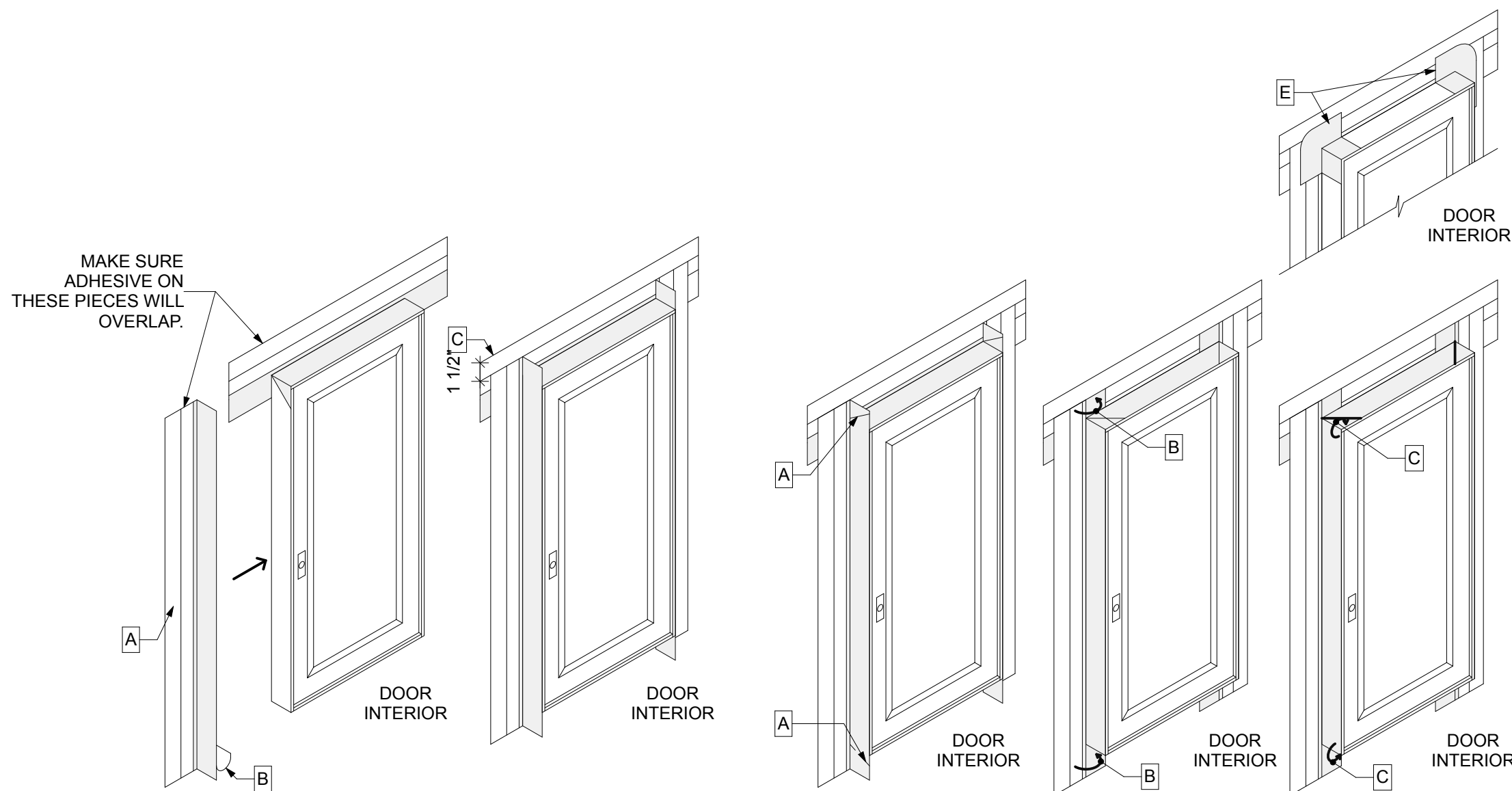
OPTIONAL: COVER EXPOSED BUTYL WITH STRAIGHT FLASH, FLASHING TAPE, OR TYVEK TAPE.



- A. CUT PIECE OF FLEX WRAP NF AT LEAST 12" LONGER THAN THE WIDTH OF THE SILL (S).
- B. FLEX WRAP NF HAS PERFORATION RELEASE PAPER TO HELP WITH THE FORMATION OF THE BACK DAM. TO ENSURE THAT THE PERFORATION TEARS CLEANLY, FOLD THE PERFORATION 180 DEGREES AND GREASE THE FLASHING.
- C. REMOVE THE TWO WIDEST PIECES OF RELEASE PAPER LEAVING THE NARROWEST RELEASE PAPER ON THE FLASHING. WHEN THE FINISHED FLOOR IS APPLIED, THE RELEASE PAPER CAN BE REMOVED AND THE BACK DAM CAN BE COMPLETED.

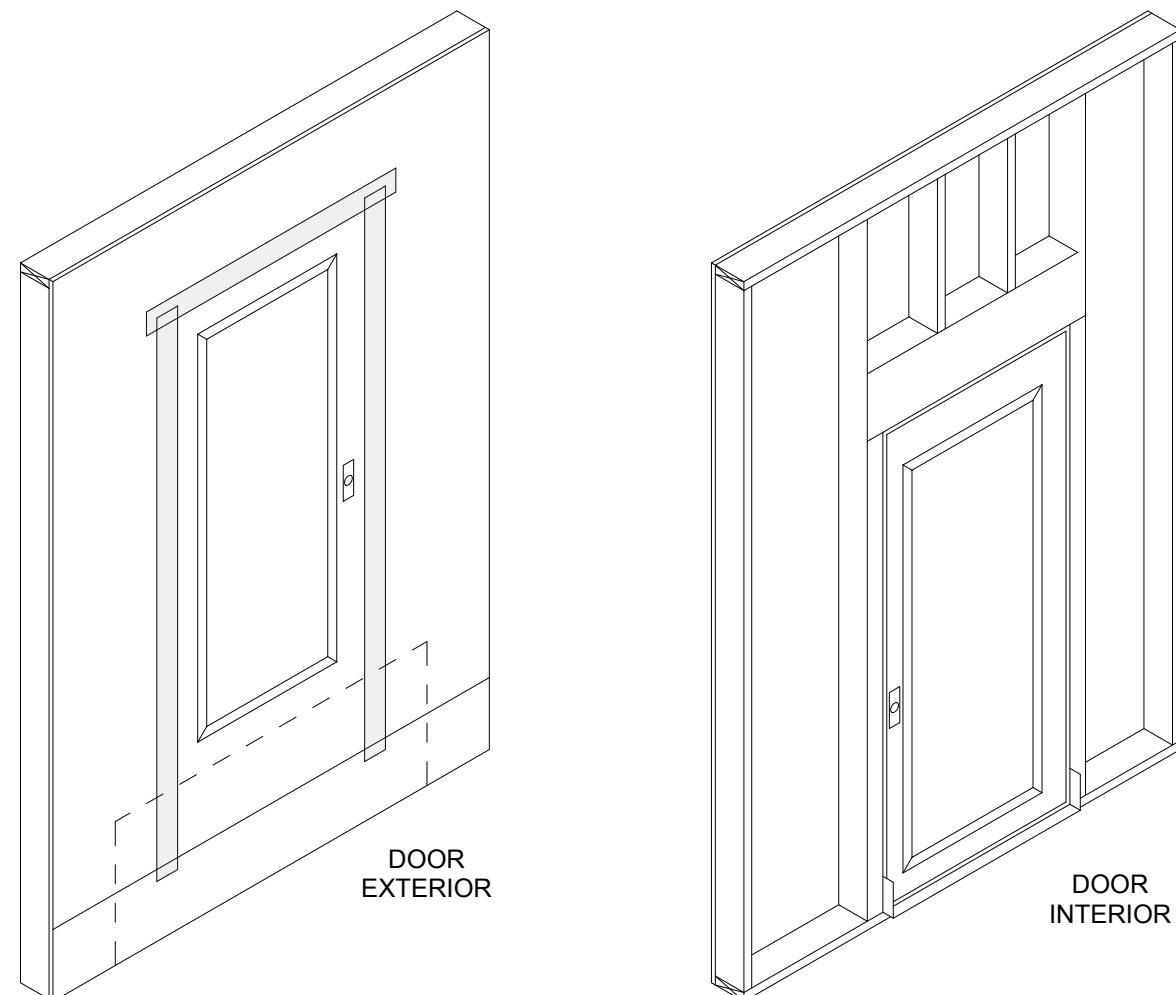


- A. BEGINNING AT THE JUNCTION OF THE JAMB AND HEAD AND AT THE SILL AND JAMB AND AWAY FROM THE CORNERS, CUT THE STRAIGHT FLASHING ALONG THE CORNERS AT A 45 DEGREE ANGLE AND FOLD IT OVER FLAT TO ADHERE IT AGAINST THE HEAD FLASHING.
- B. FOLD NEWLY CREATED FLAP DOWN PARALLEL TO THE DOOR FRAME.
- C. FOLD FLASHING FLAPS TO THE DOOR FRAME AND ADHERE.
- D. REPEAT ON OPPOSITE JAMB.
- E. CUT TWO 3" x 3 FLEX WRAP NF SQUARES AND ADD PATCHES TO CORNER OF THE DOOR. STAPLE PATCHES IN CORNERS TO SECURE THE WOODEN HEAD AND JAMBS.



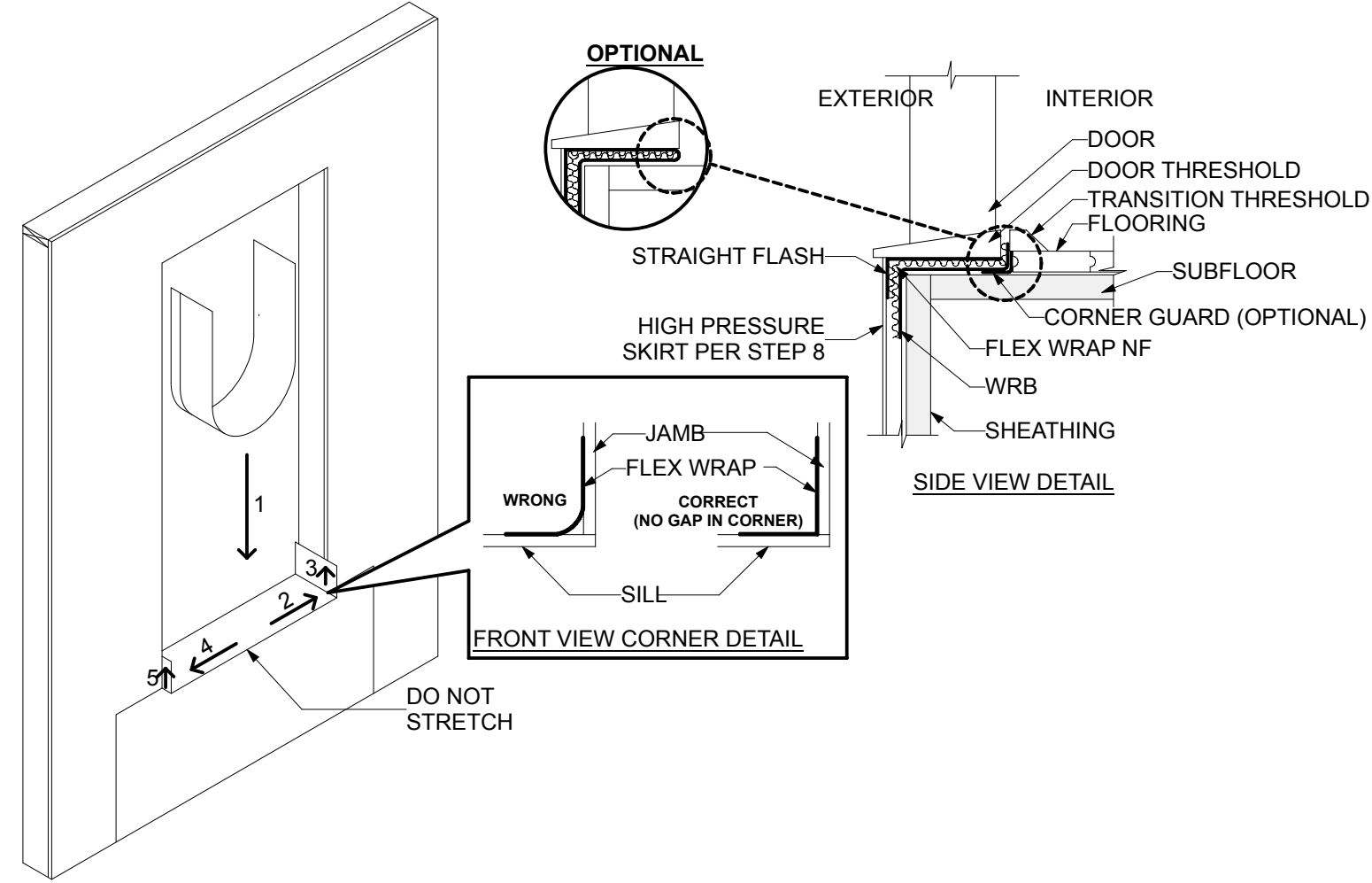
A. TAPE SEAMS AS SHOWN. **DO NOT TAPE AT BOTTOM OF OPENING.** AT THE HEAD, CONTINUOUS TAPE SEAMS AS SHOWN WITH TYVEK TAPE. SKIPTAPING AT THE HEAD IS ACCEPTABLE IF AN AIR BARRIER IS NOT REQUIRED OR IF ADDITIONAL DRAINAGE IS DESIRED.

B. LAP BOTTOM OF APRON AND THE WRB OVER BUILDING MATERIALS FOR PROPER SHINGLING.

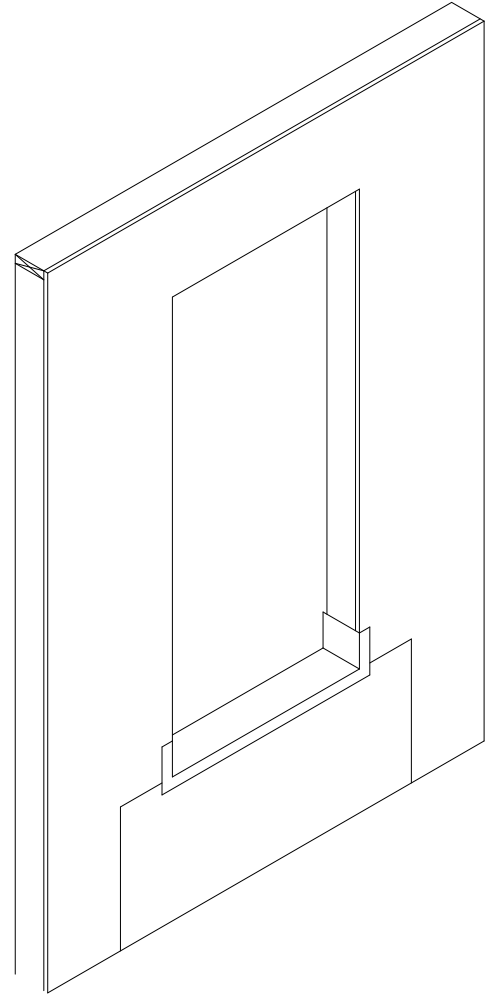


INSTALL THE SILL FLASHING AS INDICATED LEAVING 1" OF FLEX WRAP NF WITH RELEASE PAPER EXTENDING IT PAS THE DOOR THRESHOLD ON THE INSIDE. WHEN THE 1" OF RELEASE PAPER IS REMOVED, THERE SHOULD BE 3/4" OF FLASHING TO FORM THE BACK DAM.

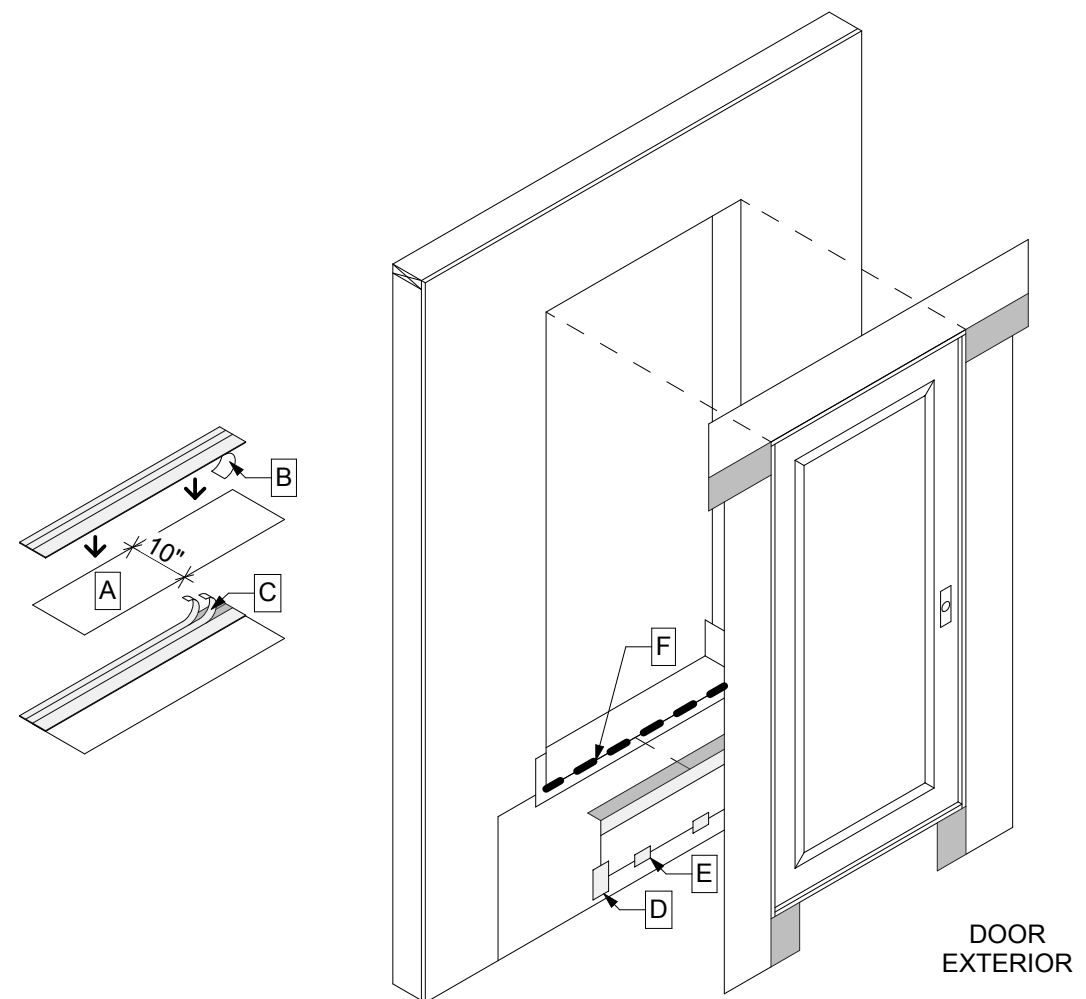
OPTION 2: SOME FLOORING CANNOT ACCOMMODATE A BACK DAM. IN THAT CASE FOLD THE 1" BACK DAM ON TOP OF FLEX WRAP NF IN THE SILL. DOOR WILL BE INSTALLED ON TOP OF THE 1" FOLD TO CREATE A BACK DAM.



FAN OUT FLEX WRAP NF AT BOTTOM CORNERS ONTO THE FACE OF THE WALL. COVERAGE OF FLEX WRAP NF SHOULD BE 2" TO 3" ONTO THE FACE OF THE WALL.

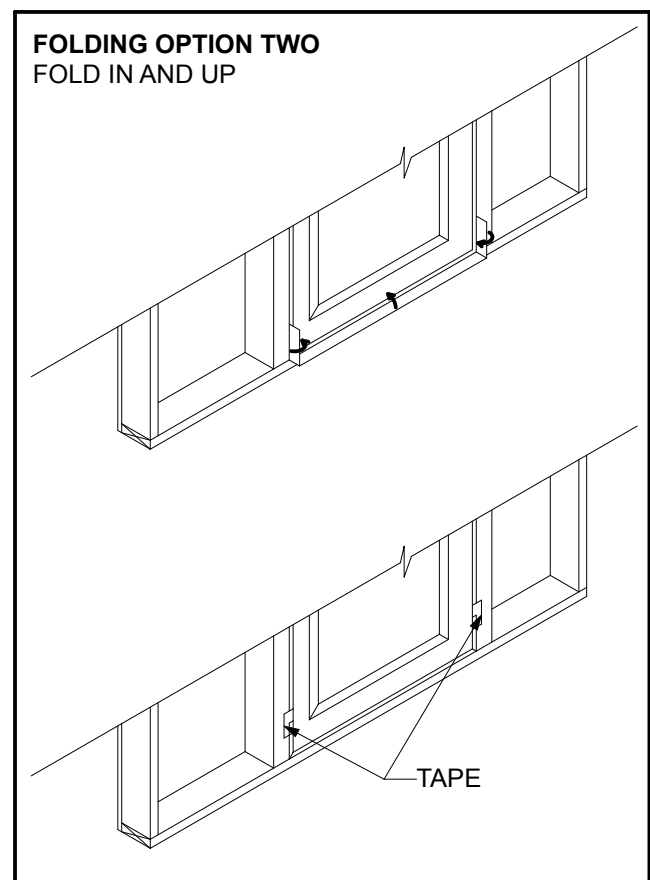
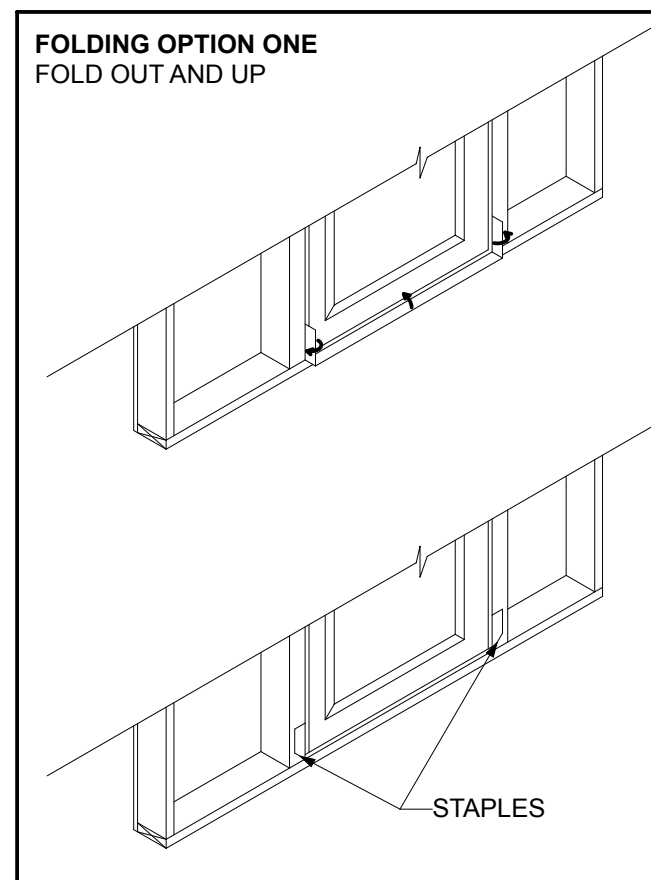


- A. CREATE THE HIGH PRESSURE SKIRT BY CUTTING A PIECE OF WRB 1" WIDER THAN THE WIDTH OF THE DOOR OPENING AND APPROXIMATELY 10" IN HEIGHT.
- B. CUT A PIECE OF STRAIGHT FLASH VF TO THE SAME WIDTH OF SKIRT. REMOVE RELEASE PAPER FROM ONE SIDE OF STRAIGHT FLASH VF AND ADHERE TO WRB. THE SKIRT MAY BE MADE WITH STRAIGHT FLASH VF OR FLASHING TAPE.
- C. REMOVE THE RELEASE PAPER FROM THE OTHER SIDE OF STRAIGHT FLASH VF AND ADHERE TO BUTYL ADHESIVE AT THE SILL SKIRT TO THE UNDERSIDE OF THE DOOR THRESHOLD BEHIND THE JAMB FLASHING.
- D. SEAM EDGES OF THE SKIRT WITH TWO 4" PIECES OF STRAIGHT FLASH OR FLASHING TAPE.
- E. TAPE BOTTOM OF THE OPTIONAL SKIRT TO ALLOW FOR DRAINAGE AND TO MINIMIZE WIND DAMAGE DURING CONSTRUCTION.
- F. IF SEALANT IS APPLIED TO THE SILL, INSURE (2) 2" GAPS TO ALLOW FOR DRAINAGE FOR EVERY 4" OF DOOR USING RECOMMENDED SEALANT.

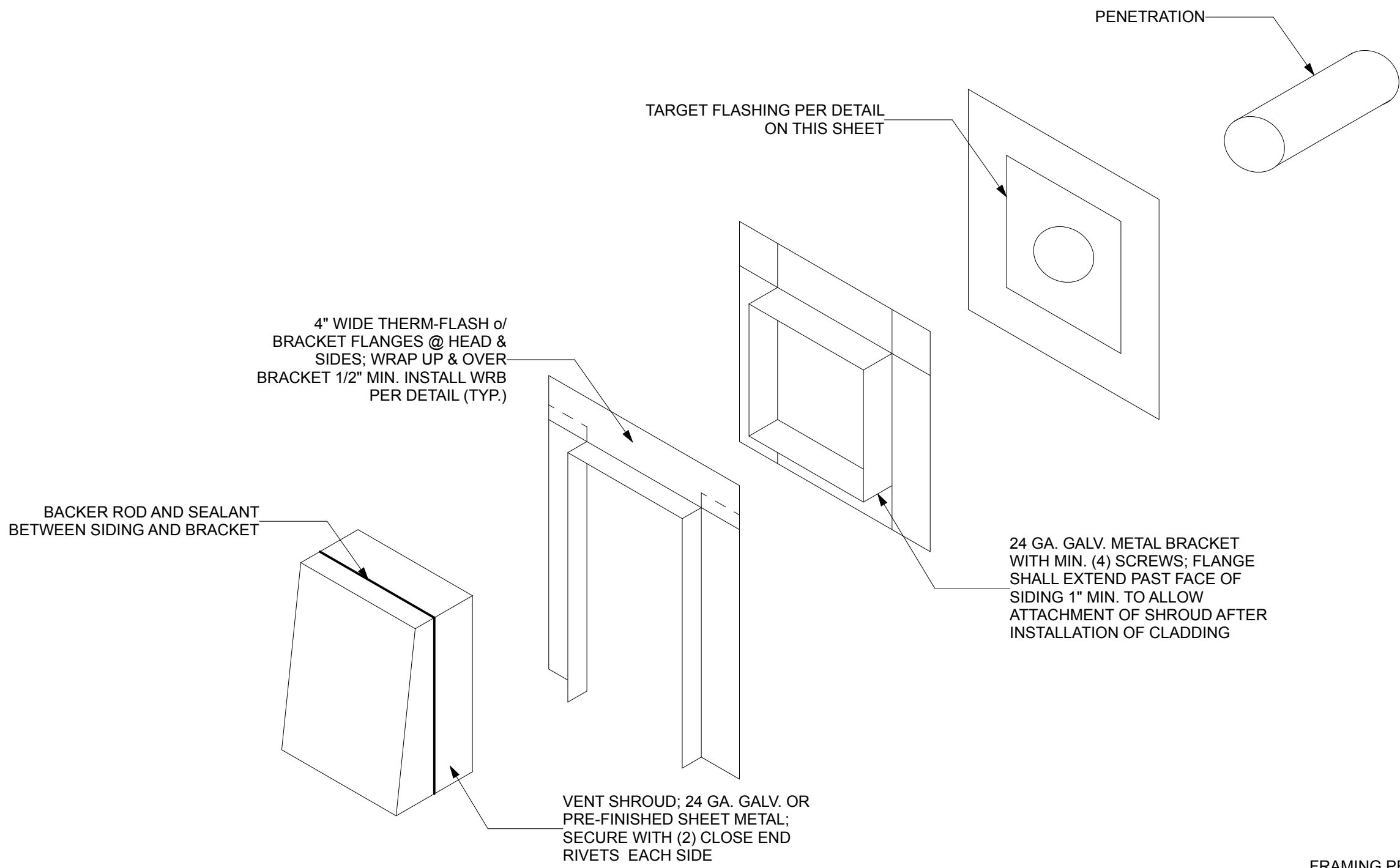


A. WHEN THE INTERIOR FLOORING IS READY TO INSTALL, REMOVE RELEASE PAPER AND USE FOLDING OPTION ONE OR TWO TO FORM THE BACK DAM.

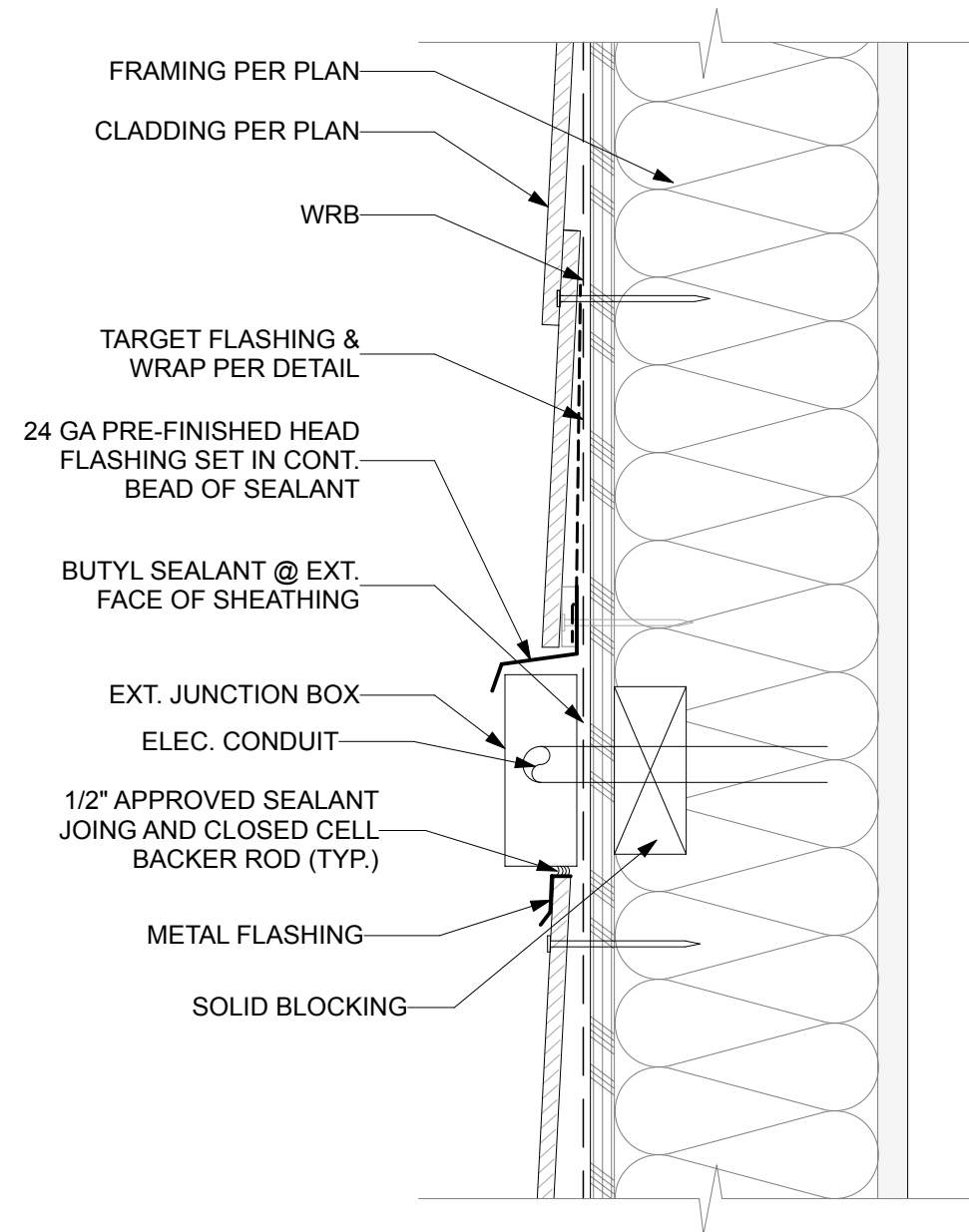
B. INSTALL RECOMMENDED SEALANT (AND BACKER ROD AS NECESSARY) AROUND THE OPENING AT THE INTERIOR. IT IS ALSO ACCEPTABLE TO USE RECOMMENDED FOAM. THE SEAL CREATED BY THE SEALANT OR BACKER ROD WILL NOT ONLY SERVE AS A BACK DAM, BUT ALSO SEALANT SHOULD BE TOOLED FLAT TO ALLOW THE NATURAL CURING PROCESS TO CREATE A CONCAVE SHAPE. BE SURE THAT THE SEALANT PENETRATES THE GROOVES OF THE FLEX WRAP NF AROUND THE SILL.



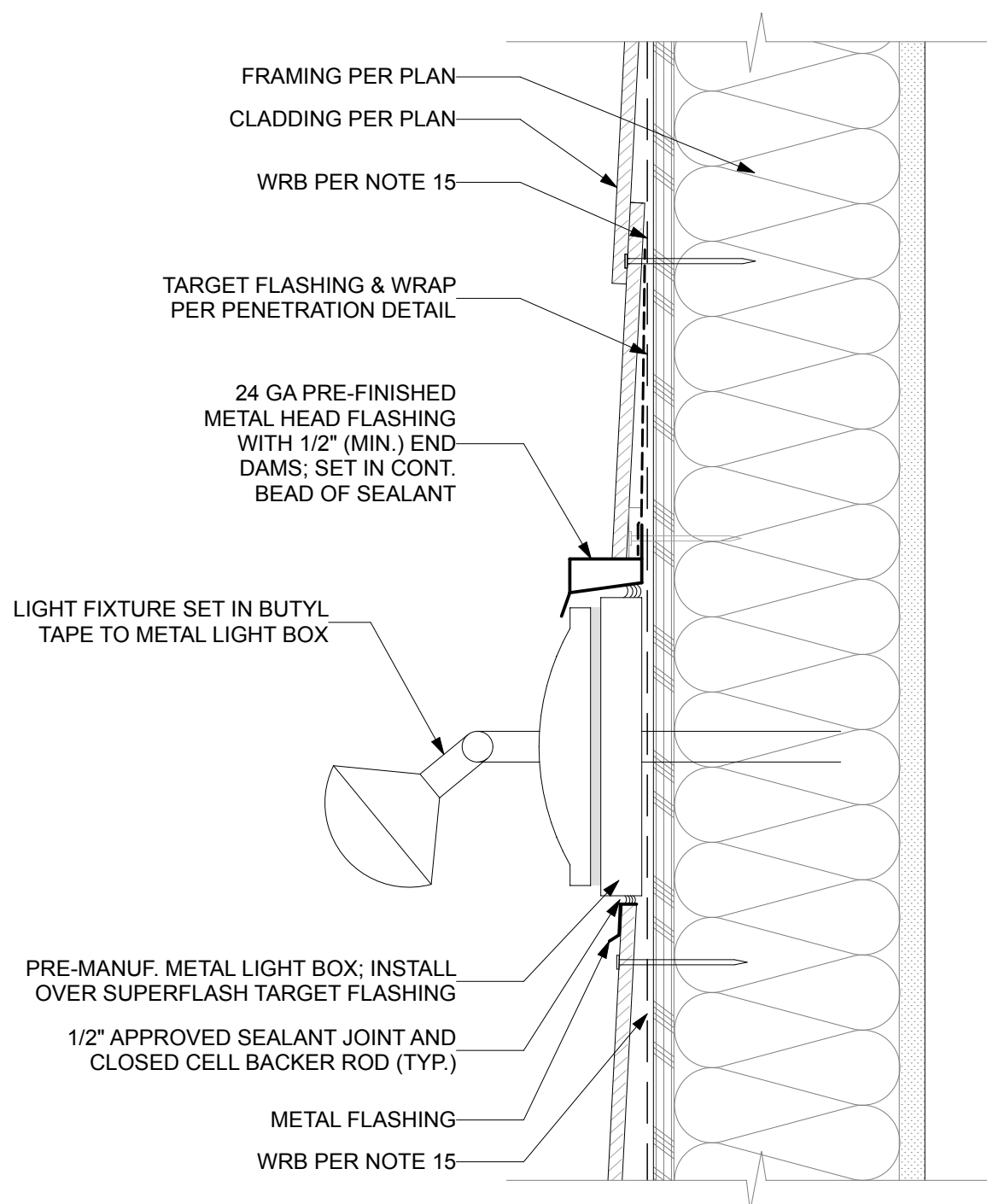
REVISIONS	
REVISIONS	
DRAWN BY:	CM / BL
CHECKED BY:	BL
DATE:	2025.01.17
TITLE:	DETAILS
PROJECT #:	2016-L1
SHEET:	
A6.3	



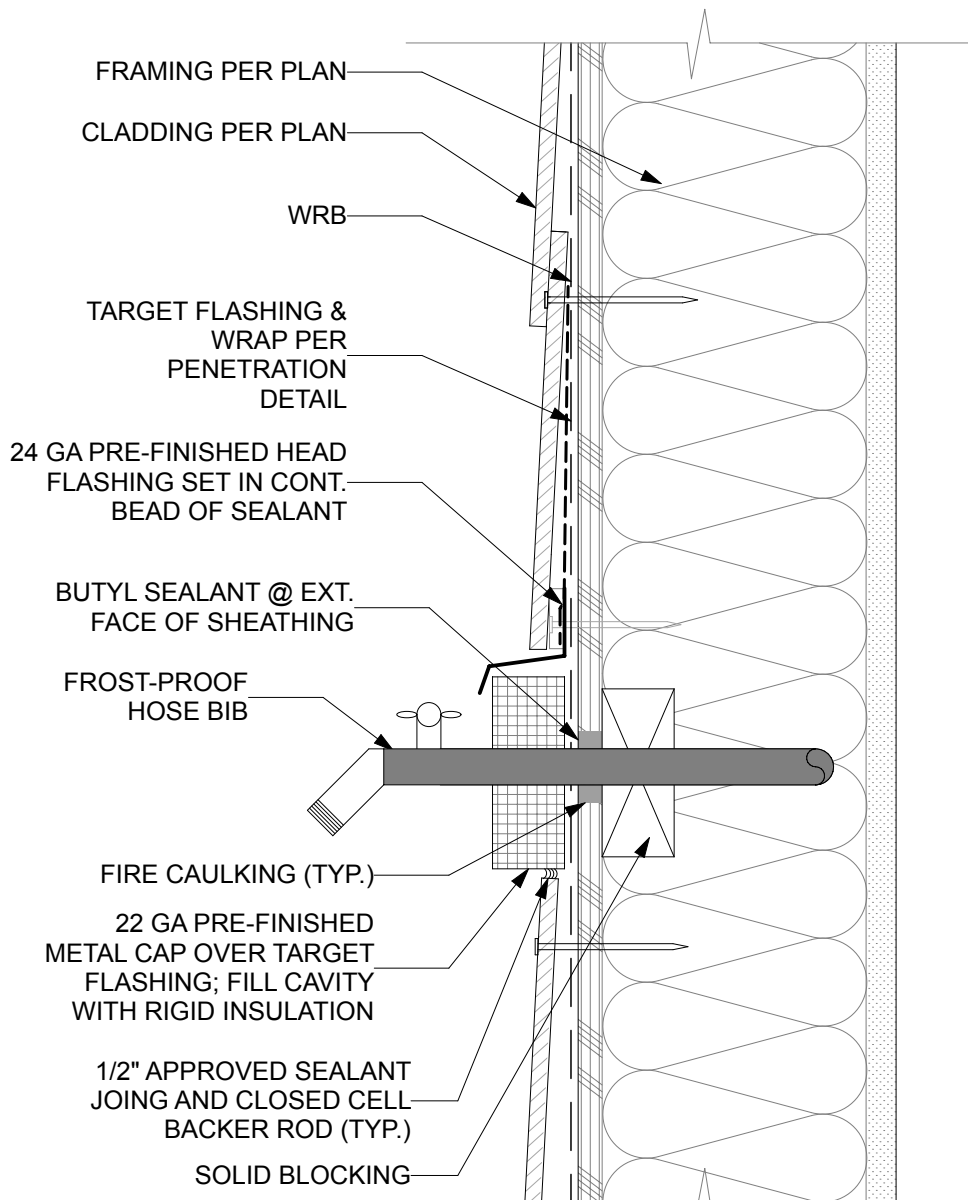
4 VENT PENETRATIONS
SCALE: 3/8\"/>



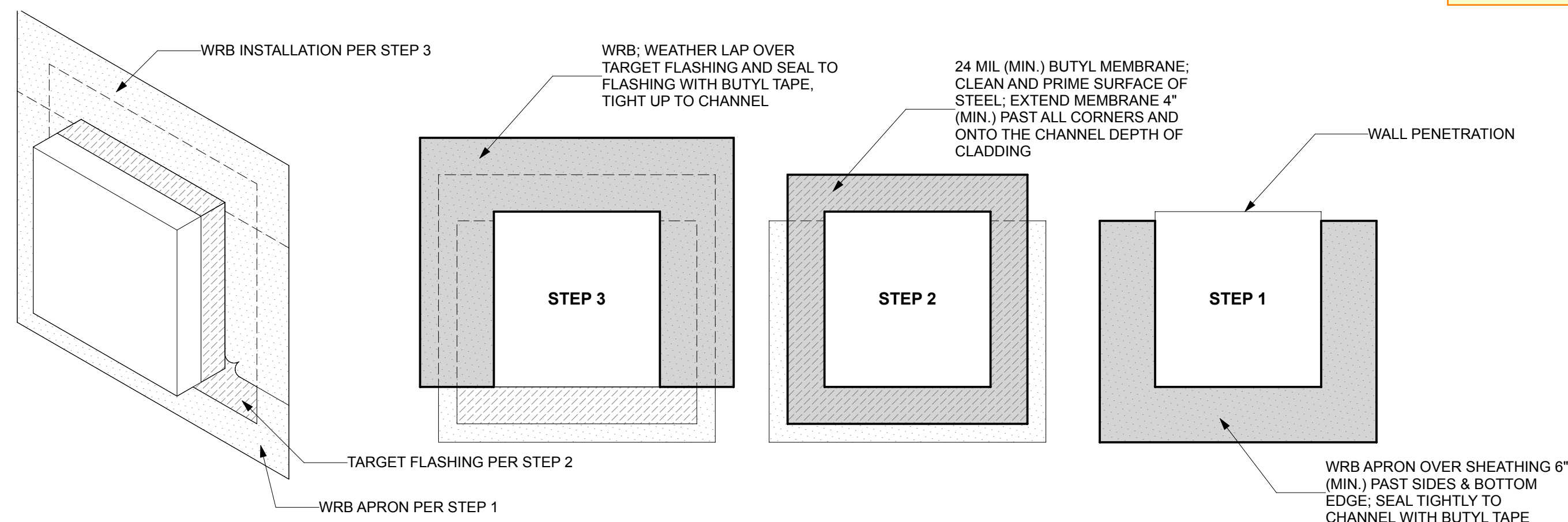
5 JUNCTION BOX PENETRATION
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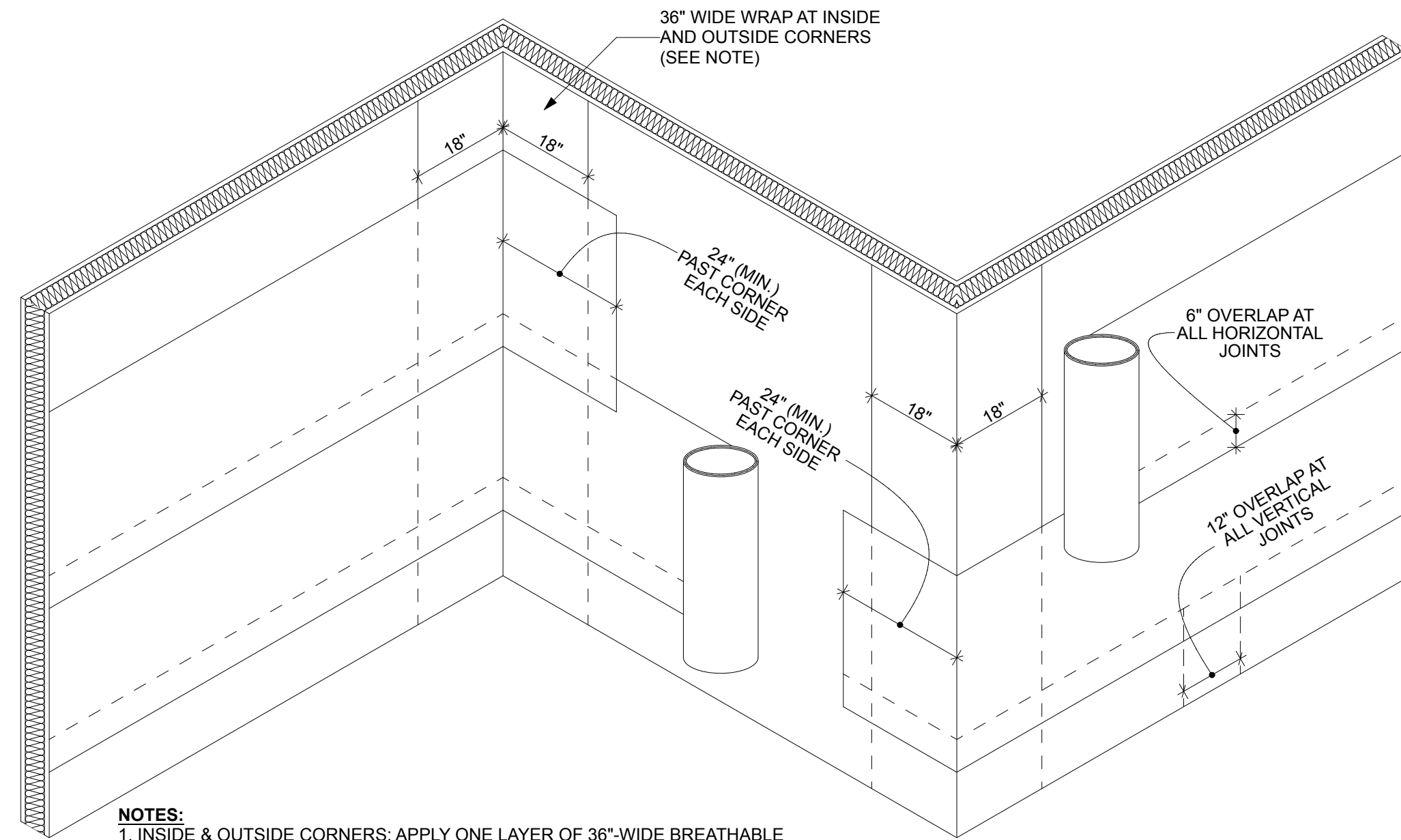
7 FLASHING @ LIGHT FIXTURE
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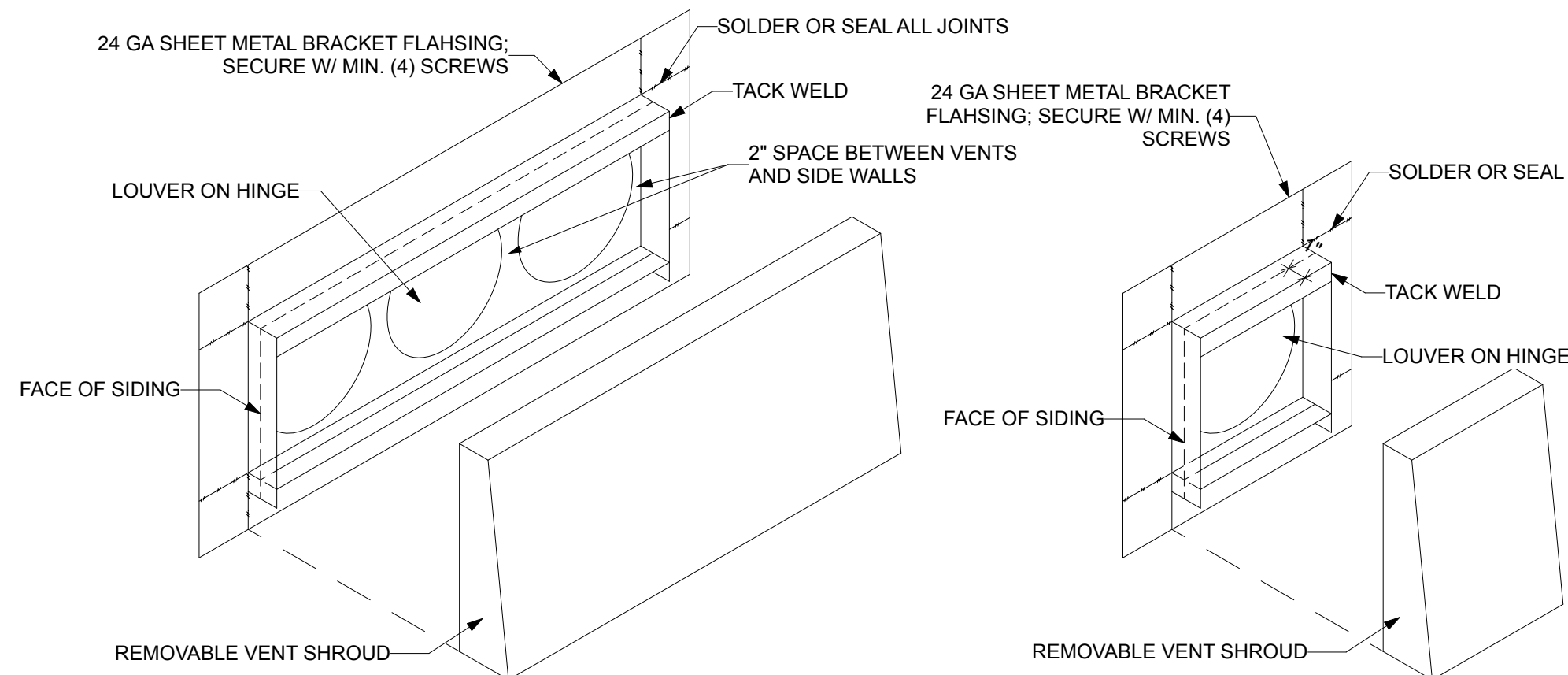
6 FLASHING AT HOSE BIB
SCALE: 3\"/>



1 TARGET FLASHING INSTALLATION FOR PENETRATIONS > 6\"/>



2 WRB INSTALLATION
SCALE: 1/2\"/>



3 VENT SHROUDS
SCALE: 1 1/2\"/>







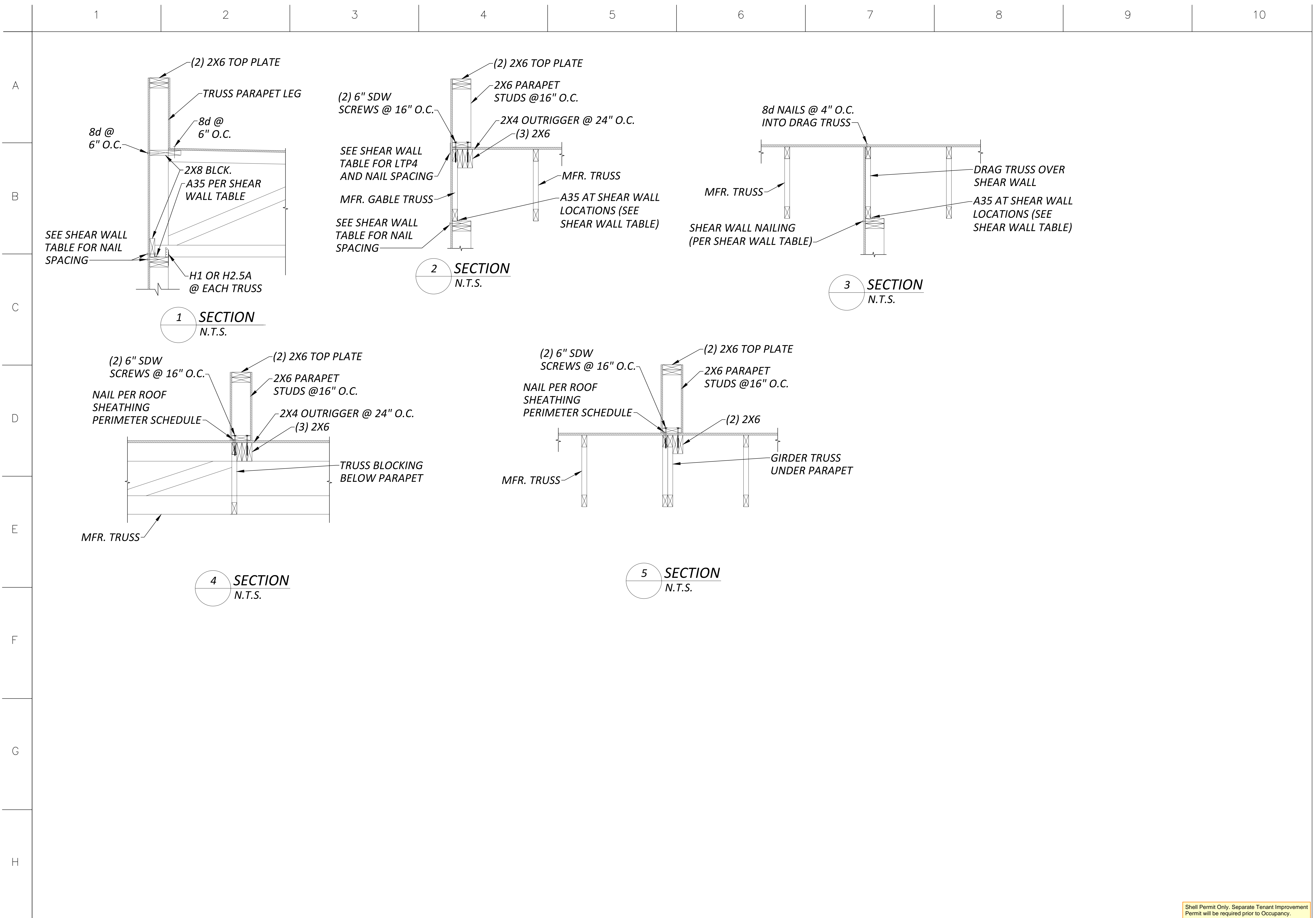
EAST TOWN CROSSING
LOT 1 COMMERCIAL
PIONEER & SHAW PUYALLUP

[illegible]

S3.2

Shell Permit Only. Separate Tenant Improvement Permit will be required prior to Occupancy.



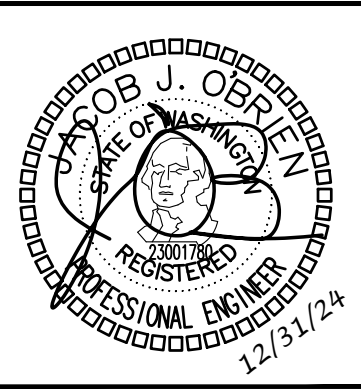


ROOFTOP HVAC UNIT SCHEDULE																
EQUIP NO.	SERVICE	DISCHARGE	SUPPLY FAN			PROVIDE 100% OSA ECONOMIZER?	COOLING		HEATING			ELECTRICAL			WEIGHT, LBS	BASIS OF DESIGN (1)
			AIRFLOW, CFM	ESP, IN WG	MOTOR HP		CAPACITY, MBH	IEER/ EER	CAPACITY @ 47F MBH	CAPACITY @ 17F MBH	COP	VOLTAGE	MCA	MOCP		
RTU-1	TENANT 1	VERTICAL	3477	0.6	3.5	YES	101.6	14.1/11.0	100	61	3.4	208V/3P	129	150	1237	DAIKIN DFH1023W000043C
RTU-2	TENANT 1	VERTICAL	3477	0.6	3.5	YES	101.6	14.1/11.0	100	61	3.4	208V/3P	129	150	1237	DAIKIN DFH1023W000043C
RTU-3	TENANT 2	VERTICAL	2464	0.6	2.3	YES	69.78	17.0/11.5	62	33	3.4	208V/3P	70.7	80	708	DAIKIN DRH0723W000114C
RTU-4	TENANT 2	VERTICAL	2464	0.6	2.3	YES	69.78	17.0/11.5	62	33	3.4	208V/3P	70.7	80	708	DAIKIN DRH0723W000114C

- ## ELECTRIC HEATERS

NOTES:(1) BROAN, KING, CADET OR EQUIVALENT.
(2) PROVIDE INTEGRAL THERMOSTAT.
(3) ALL ELECTRIC HEATERS TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.

REVISIONS



1

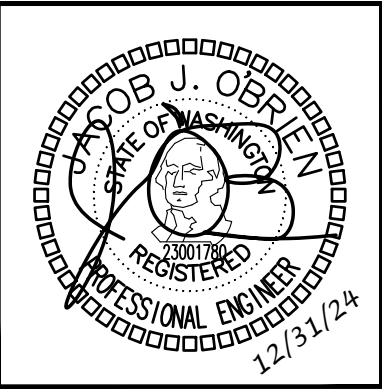
**MULTIFAMILY DEVELOPMENT
PIONEER WAY & SHAW RD. PUYALLUP. WA**

19401 40TH AVE W, SUITE 302
LYNNWOOD, WA 98036
PHONE: (206) 364-3343
REI PROJECT NO.: 810010
CONTACT: ARIK ESPINELI

ROBISON
ENGINEERING, INC.

SHEET TITLE:
MECHANICAL SCHEDULES

M0.1



DRAWN:	OP
DESIGNED:	ABE
CHECKED:	PR
APPROVED:	JMR

PROJECT: EAST TOWN CROSSING COMMERCIAL LOT 11
MIII TIEAMII Y DEVELOPMENT

PIONEER WAY & SHAW RD. PUYALLUP, WA

19401 40TH AVE W, SUITE 302
LYNNWOOD, WA 98036
PHONE: (206) 364-3343
REI PROJECT NO.: 810010
CONTACT: ARIK ESPINELI

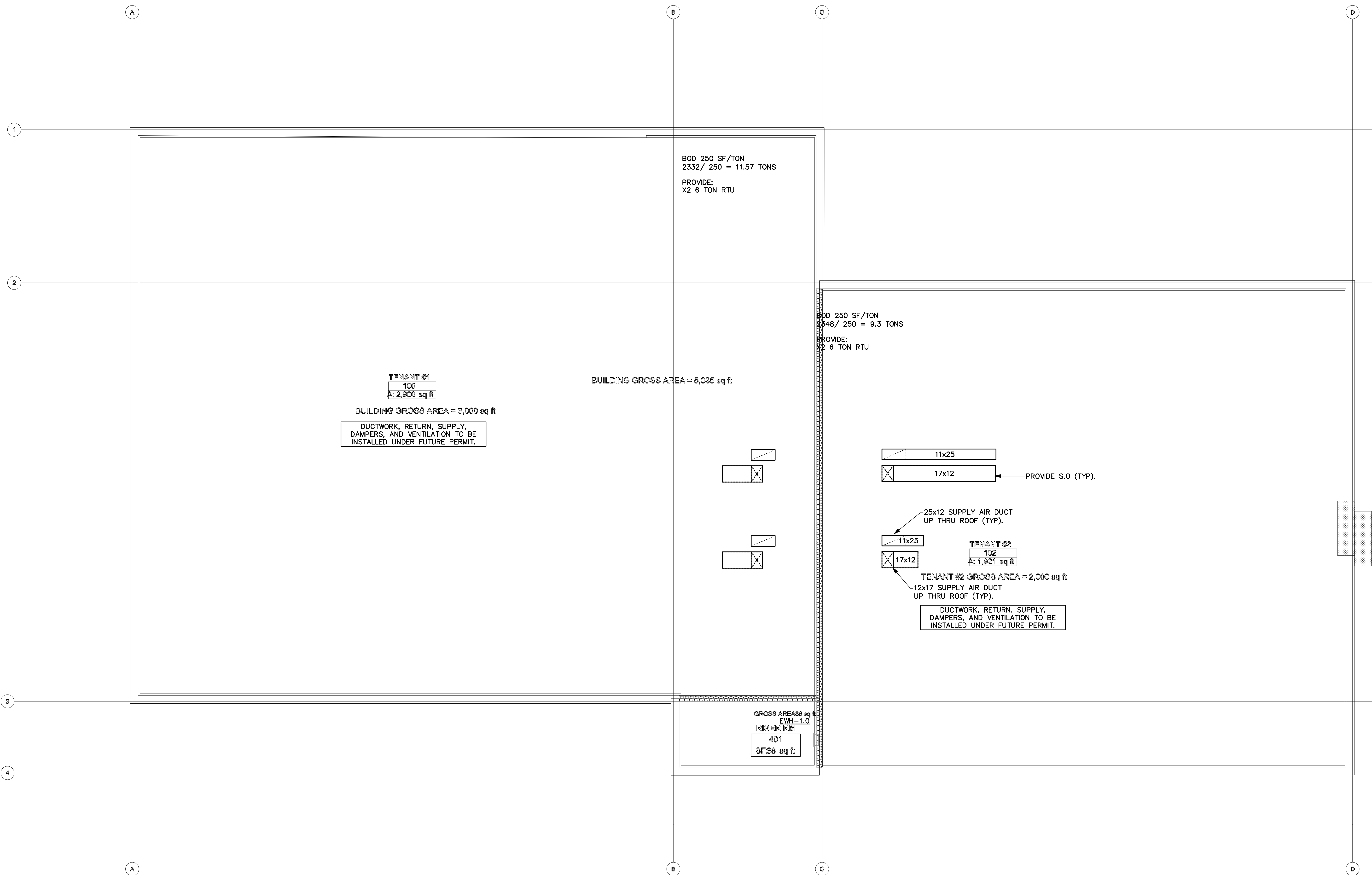
ROBISON
ENGINEERING, INC.

DATE:
12/31/2024

SHEET TITLE:
VAC PLAN FLOOR PLAN

HEET NO.

M2.0

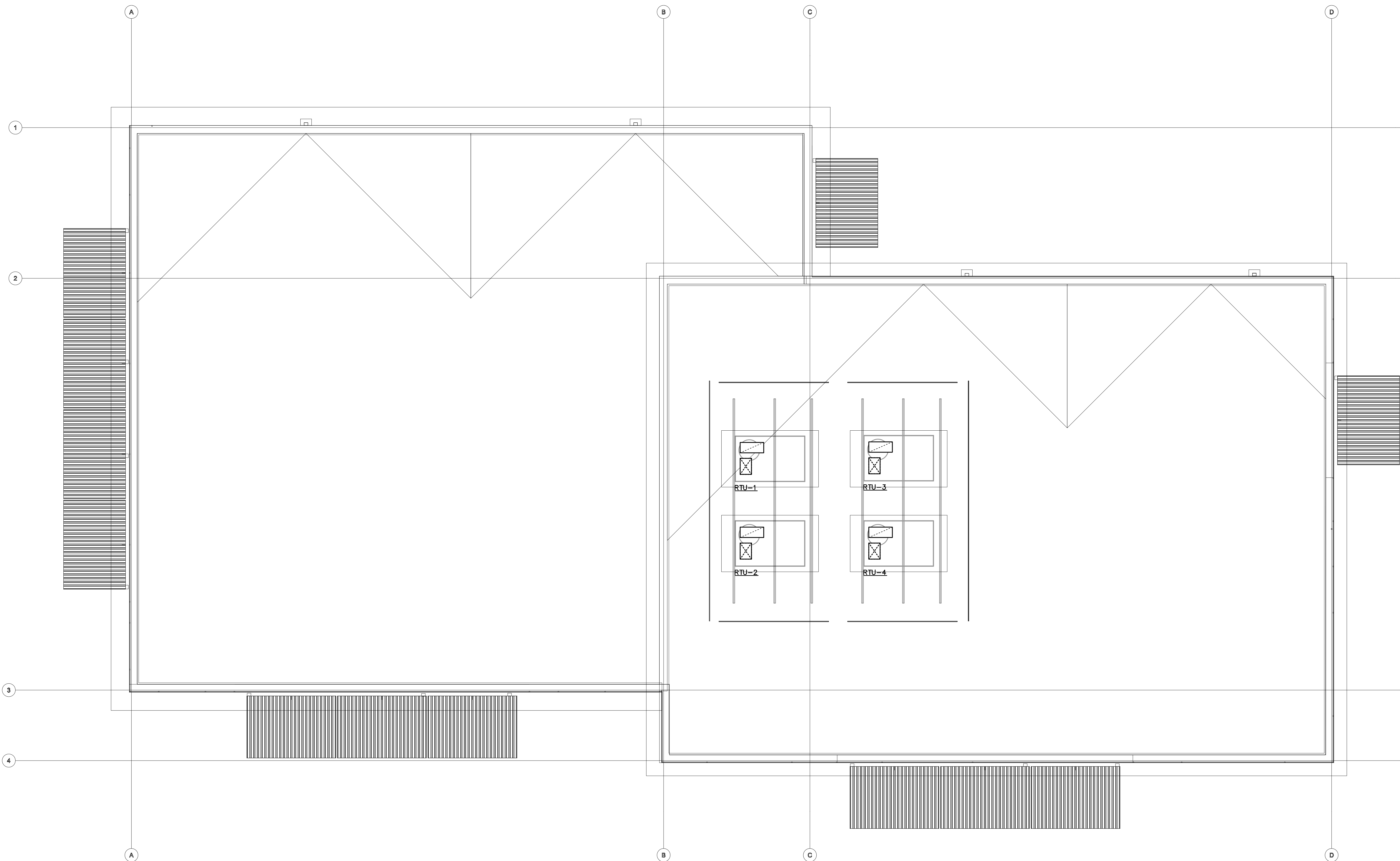


HVAC FLOOR PLAN

SCALE: $1/4" = 1'-0"$

Shell Permit Only. Separate Tenant Improvement Permit will be required prior to Occupancy.

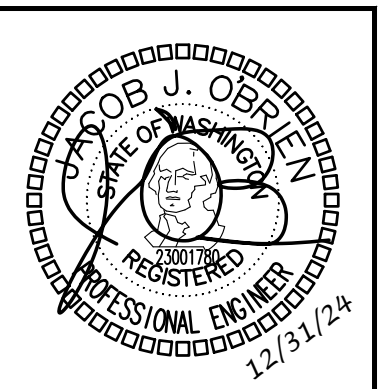
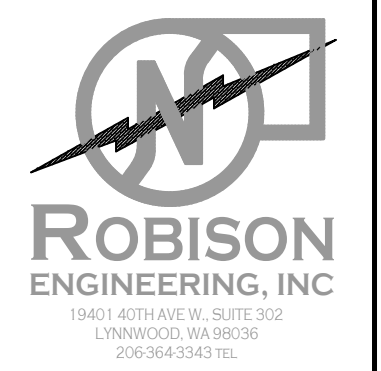
PRCNC20250094



HVAC ROOF PLAN

SCALE: $1/4" = 1'-0"$

Shell Permit Only. Separate Tenant Improvement Permit will be required prior to Occupancy.

[illegible]

DRAWN: OP
DESIGNED: ABE
CHECKED: PR
APPROVED: JMR

**PROJECT: EAST TOWN CROSSING COMMERCIAL LOT 1
MULTIFAMILY DEVELOPMENT**

PIONEER WAY & SHAW RD. PUYALLUP, WA

LYNNWOOD, WA 98036
PHONE: (206) 364-3343
REI PROJECT NO.: 810010
CONTACT: ARIK ESPINELI

ROBISON
ENGINEERING, INC.

DATE:
12/31/2024

SHEET TITLE:
HVAC PLAN ROOF PLAN

SHEET NO.

M2.1

PLUMBING TABLES

PIPE MATERIALS			
PIPE TYPE	MATERIAL	JOINT	NOTES
UNDERGROUND WATER SERVICE ENTRANCE PIPING	STAINLESS	THREADED, WELDED OR PROPPRESS	2
WATER DISTRIBUTION PIPING - MAIN DISTRIBUTION PIPING	SCHEDULE 80 CPVC	SOLVENT CEMENT	4
UNDERGROUND WASTE AND VENT PIPING	SCHEDULE 40 SOLID WALL PVC	SOLVENT CEMENT	
ABOVE GROUND WASTE AND VENT PIPING	SCHEDULE 40 ABS OR PVC	SOLVENT CEMENT	
CONDENSATE DRAIN PIPING	COPPER, TYPE M	SOLDERED	3

NOTES:

- ALL SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AN APPROVED LISTING AGENCY.
- PLASTIC WRAP UNDERGROUND WATER SUPPLY PIPING TO PREVENT CORROSION.
- CPVC IS ACCEPTABLE FOR CONDENSATE PIPING IN LIEU OF COPPER IF APPROVED BY AHJ.
- PROVIDE THERMAL EXPANSION LOOPS FOR ALL WATER PIPING PER MANUFACTURER REQUIREMENTS.

SERVICE	INSULATION		VAPOR RETARDER REQUIRED	NOTES
	CONDUCTIVITY (Btu"in/(h"ft ² "F)	THICKNESS		
DOMESTIC COLD WATER, IRRIGATION WATER, CONDENSATE DRAINS, STORM DRAIN (IN CONDITIONED SPACE)	0.21-0.27	<1" PIPE: 0.5" ALL OTHER SIZES: 1"	YES	12,13
DOMESTIC COLD WATER, IRRIGATION WATER, CONDENSATE DRAINS, WASTE (OUTSIDE THE CONDITIONED SPACE)	0.21-0.27	<1½" PIPE: 1" ALL OTHER SIZES: 1.5"	YES	1,7,8,10
DOMESTIC HOT WATER AND RECIRCULATED HOT WATER (OUTSIDE THE CONDITIONED SPACE)	0.21-0.28	<1½" PIPE: 1" ALL OTHER SIZES: 1.5"	NO	1,2
EXPOSED SANITARY DRAINS AND DOMESTIC WATER SUPPLIES AND STOPS FOR ADA FIXTURES	TRUEBRO LAV-GUARD	N/A	NO	11

Note #2 references the residential edition of the 2021 WSEC, which does not apply to this project. Please revise this note to conform to the commercial edition of the 2021 Washington State Energy Code. [Reference the marked-up document: CONSTRUCTION PLAN SET, sheet P0.01]

NOTES:

- PIPING INSULATION EXPOSED TO THE WEATHER SHALL BE PROTECTED FROM DAMAGE. CONTRACTOR SHALL PROVIDE ALUMINUM JACKET SHIELDING FROM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL. ADHESIVE TAPE SHALL NOT BE PERMITTED.
- PER 2021 WSEC SECTION R403.5.3 (RESIDENTIAL) INSULATION FOR HOT WATER PIPE SHALL HAVE A MINIMUM R-VALUE OF R-3.
- PIPING FROM WATER HEATER TO THE TERMINATION OF HEATED WATER SUPPLY PIPE SHALL BE INSULATED IN ACCORDANCE WITH TABLE C403.2.9.
- ON BOTH THE INLET AND OUTLET PIPING OF A STORAGE HOT WATER HEATER, THE FIRST 8 FEET OF PIPING OR PIPING FROM WATER HEATER TO HEAT TRAP SHALL BE INSULATED.
- HEAT TRACED PIPING SHALL BE INSULATED IN THE SAME MANNER AS NON HEAT TRACED PIPING OR PER THE HEAT TRACE MANUFACTURER'S INSTRUCTIONS.
- TUBULAR PIPING INSULATION SHALL NOT BE REQUIRED FOR THE FOLLOWING:
 - THE TUBING FROM THE CONNECTION AT THE TERMINATION OF THE FIXTURE SUPPLY PIPING TO A PLUMBING FIXTURE OR PLUMBING APPLIANCE.
 - VALVES, PUMPS, STRAINERS, AND THREADED UNIONS IN PIPING THAT IS 1 INCH OR LESS IN NOMINAL DIAMETER.
 - PIPING FROM USER-CONTROLLED SHOWER AND BATH MIXING VALVES TO THE WATER OUTLETS.
 - COLD WATER PIPING OF A DEMAND RECIRCULATION WATER SYSTEM.
 - TUBING FROM A HOT DRINKING-WATER HEATING UNIT TO THE WATER OUTLET.
 - PIPING AT LOCATIONS WHERE A VERTICAL SUPPORT OF THE PIPING IS INSTALLED.
 - PIPING SURROUNDED BY BUILDING INSULATION WITH A THERMAL RESISTANCE (R-VALUE) OF NOT LESS THAN R-3.
 - HOT WATER PIPING THAT IS PART OF THE FINAL PIPE RUN TO THE PLUMBING FIXTURE AND IS NOT PART OF THE HEATED-WATER CIRCULATION SYSTEM CIRCULATION PATH IS NOT REQUIRED TO MEET THE MINIMUM INSULATION REQUIREMENTS OF C404.6.
- PER 2021 UPC SECTION 312.6 NO WATER, SOIL, OR WASTE PIPE SHALL BE INSTALLED OR PERMITTED OUTSIDE OF A BUILDING, IN ATTICS OR CRAWL SPACES, OR IN AN EXTERIOR WALL UNLESS, WHERE NECESSARY, ADEQUATE PROVISION IS MADE TO PROTECT SUCH PIPE FROM FREEZING. ALL HOT AND COLD WATER PIPES OUTSIDE THE CONDITIONED SPACE SHALL BE PROVIDED WITH INSULATION WITH A MINIMUM R-VALUE OF R-3.
- HEAT TRACING SHALL BE PROVIDED FOR COLD WATER AND IRRIGATION WATER IN UNCONDITIONED SPACES. CONTACT ENGINEERING IF NECESSARY. PER 2021 WSEC SECTION C403.12.3 FREEZE PROTECTION SYSTEMS, SUCH AS HEAT TRACING OF OUTDOOR PIPING, SHALL INCLUDE AUTOMATIC CONTROLS CONFIGURED TO SHUT OFF THE SYSTEMS WHEN OUTDOOR AIR TEMPERATURES ARE ABOVE 40°F.
- PER 2021 WSEC TABLE C403.2.9 INSULATION FOR HOT WATER AND HOT WATER RECIRCULATION SHALL HAVE A THERMAL CONDUCTIVITY OF 0.21-0.28 (BTU/INH.FT.².F) AT OPERATING TEMPERATURE.
- INSULATION R-VALUE SHALL MEET THE MINIMUM REQUIREMENT. THICKNESS IS BASED ON GRAINGER SAMPLE DATA FOR K-FLEX(PVC/NBR) AND OWENS CORNING(FIBER GLASS).
- ALL ADA P-TRAPS, HOT WATER SUPPLY TUBING, AND SHUT-OFF COCKS SHALL BE PROTECTED WITH APPROVED COVERS TO PREVENT SCALDING.
- REQUIRED BY ENGINEERING BASED ON BEST PRACTICE.
- INSULATION IS NOT REQUIRED ON PLASTIC COLD WATER PIPING.

HANGER SPACING FOR WATER PIPING		
ALL SUSPENDED WATER SUPPLY PIPE SHALL BE SUPPORTED AS FOLLOWS PER 2021 UPC TABLE 313.3:		
	MAX. HORIZONTAL SPACING	MAX. VERTICAL SPACING
CPVC PIPE ≤1"	3 FT.	10 FT.
CPVC PIPE >1½"	4 FT.	10 FT.
STEEL GAS ½"	6 FT.	6 FT.
STEEL GAS ¾"-1"	8 FT.	8 FT.
STEEL GAS > 1½"	10 FT.	10 FT.
PEX ≤ 1"	32 IN.	10 FT.
PEX ≥ 1½"	4 FT.	10 FT.

HANGER SPACING FOR WASTE AND VENT PIPING		
ALL SUSPENDED SANITARY AND VENT PIPE SHALL BE SUPPORTED AS FOLLOWS PER 2021 UPC TABLE 313.3:		
	MAX. HORIZ. SPACING	MAX. VERT. SPACING
ABS	4 FT.	10 FT.
PVC (TYPE DWV)	4 FT.	10 FT.
CAST-IRON HUBLESS*	EVERY OTHER JOINT	15 FT.
*CAST-IRON OVER 4" SHALL BE SUPPORTED AT EVERY JOINT		

PLUMBING FIXTURE FLOW RATES PER 2021 UPC CH. 4		
FIXTURE TYPE	FLOW RATE	NOTES
SHOWERHEADS	1.8 GPM @ 80 PSI	
LAVATORY FAUCETS, RESIDENTIAL	1.2 GPM @ 60 PSI	1
LAVATORY FAUCETS, NON-RESIDENTIAL	0.5 GPM @ 60 PSI	2
KITCHEN FAUCETS	1.8 GPM @ 60 PSI	3
GRAVITY TANK-TYPE WATER CLOSETS	1.28 GALLONS/FLUSH	4
FLUSHOMETER TANK WATER CLOSETS	1.28 GALLONS/FLUSH	4
FLUSHOMETER VALVE WATER CLOSETS	1.28 GALLONS/FLUSH	4
ELECTROMECHANICAL HYDRAULIC WATER CLOSETS	1.28 GALLONS/FLUSH	4
URINALS	0.125 GALLONS/FLUSH	

NOTES:

- LAVATORY FAUCETS SHALL NOT HAVE A FLOW RATE LESS THAN 0.8 GPM AT 20 PSI.
- WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS RATED AT 0.35 GPM OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.
- KITCHEN FAUCETS MAY TEMPORARILY INCREASE FLOW ABOVE THE MAXIMUM RATE, BUT NOT ABOVE 2.2 GPM @ 60 PSI AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GPM @ 60 PSI.
- INCLUDES SINGLE AND DUAL FLUSH WATER CLOSETS WITH AN EFFECTIVE FLUSH OF 1.6 GALLONS OR LESS. SINGLE FLUSH TOILETS – THE EFFECTIVE FLUSH VOLUME SHALL NOT EXCEED 1.6 GALLONS. THE EFFECTIVE FLUSH VOLUME IS THE AVERAGE FLUSH VOLUME WHEN TESTED IN ACCORDANCE WITH ASME A112.19.2 DUAL FLUSH TOILETS – THE EFFECTIVE FLUSH VOLUME SHALL NOT EXCEED 1.6 GALLONS. THE EFFECTIVE FLUSH VOLUME IS DEFINED AS THE COMPOSITE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH. FLUSH VOLUMES WILL BE TESTED IN ACCORDANCE WITH ASME A112.19.2 AND ASME A112.19.14.

PLUMBING NOTES

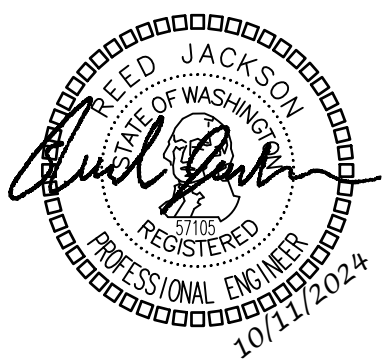
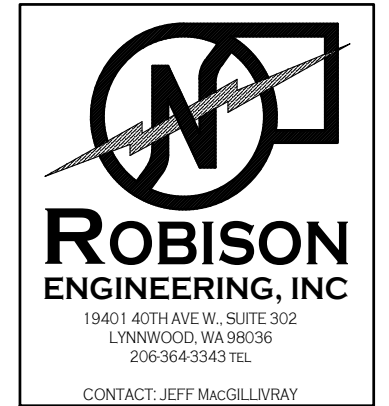
PRCNC20250094

- CONNECTIONS: PROVIDE PLUMBING FIXTURE CONNECTIONS TO BUILDING WASTE, VENT, COLD WATER, AND HOT WATER SYSTEM IN ACCORDANCE WITH DRAWINGS, MANUFACTURER'S RECOMMENDATIONS, AND LOCAL CODES. CONNECT TO EACH FIXTURE, EQUIPMENT, ETC. WITH ALL ACCESSORIES, VALVES, VACUUM BREAKERS, REGULATORS, UNIONS, ETC. AS REQUIRED AND AS RECOMMENDED BY THE MANUFACTURERS. REFER TO PLUMBING FIXTURE CONNECTION SCHEDULE ON PLANS.
- HOT AND COLD: WATER PIPING CONNECTION TO EACH FIXTURE SHALL BE COLD WATER ON THE RIGHT HAND SIDE AND HOT WATER ON THE LEFT HAND SIDE.
- HOT WATER: NON-CIRCULATING HOT WATER PIPE SHALL NOT EXCEED 10' UNLESS OTHERWISE SHOWN ON DRAWINGS.
- VENT STACKS: COORDINATE VENT STACK WITH HVAC EQUIPMENT TO MAINTAIN MINIMUM 10' CLEARANCE FROM OUTSIDE AIR INTAKES.
- CLEANOUTS: PROVIDE CLEANOUTS PER CURRENT UPC AND AS REQUIRED BY LOCAL JURISDICTIONS. CLEANOUTS SHALL BE LOCATED IN WALLS/FLOORS WHERE THEY ARE NOT HIGHLY VISIBLE. FLOOR CLEANOUTS IN CARPETED AREAS TO BE FITTED WITH CARPET INSERTS. LOCATIONS SHALL BE SUBMITTED TO ARCHITECT FOR APPROVAL. NOTE: NOT ALL CLEANOUTS ARE SHOWN ON THE PLUMBING DRAWINGS.
- SUDS RELIEF: PROVIDE SUDS RELIEF IN ACCORDANCE WITH 2021 UPC SECTION 711.0, STATE AND LOCAL CODES.
- SHUT-OFFS: PROVIDE 1/4 TURN BALL VALVE ANGLE STOP SHUT-OFF VALVES AND BRAIDED STAINLESS STEEL FLEX CONNECTORS AT HOT AND COLD WATER SUPPLY TO EACH FIXTURE. EXCEPTION: PROVIDE SCREWDRIVER STOPS AT BATHSHOWERS.
- TUB SPOUTS SHALL BE THREADED (NO PUSH-ON FITTINGS).
- TRAP ARMS: PROVIDE TRAP ARMS SUCH THAT THE MAXIMUM LENGTH WILL NOT EXCEED CODE REQUIREMENTS.
- ADA INSULATION: AT PLUMBING PIPING EXPOSED UNDER LAVATORIES, INSULATE THE EXPOSED PIPING AND TRAPS WITH PRODUCT SPECIFICALLY DESIGNED FOR THIS APPLICATION MEETING ADA REQUIREMENTS. PROVIDE HANDI-LAV GUARD OR EQUIVALENT. OFFSET P-TRAPS TO CLEAR WHEELCHAIR ACCESS.
- GAS EQUIPMENT: GAS EQUIPMENT SHALL BE INSTALLED PER EQUIPMENT LISTINGS, APPLICABLE SFGC, SPC, LOCAL CODES & NFPA STANDARDS.
- GAS CONNECTIONS: INSTALL FLEXIBLE QUICK DISCONNECT ASSEMBLIES FOR ALL GAS FIRED KITCHEN EQUIPMENT PER APPLICABLE SFGC, SPC, LOCAL CODES & NFPA STANDARDS. PROVIDE LOCKABLE GAS SHUT-OFF VALVES FOR FIREPLACES & BBQS IN UNATTENDED PUBLIC LOCATIONS IN THE BUILDING.
- GAS PIPING CONNECTIONS TO WATER HEATERS, BOILERS AND FURNACES SHALL HAVE DIRT LEGS AND UNIONS PROVIDED ON APPLIANCE SIDE OF SHUTOFF VALVE.
- GAS PIPING INSTALLATION: STEEL OR MALLEABLE IRON FUEL LINES 2" OR SMALLER SHALL BE ASSEMBLED USING THREAD SEALANT SUITABLE FOR NATURAL GAS. GAS PIPING LARGER THAN 2" SHALL HAVE WELDED FITTINGS.
- GAS PIPING UNDERGROUND: WHERE INSTALLED BELOW GRADE THROUGH THE OUTER FOUNDATION OR BASEMENT WALL OF A BUILDING, SHALL BE ENCASED IN A PROTECTIVE PIPE SLEEVE. THE ANNULAR SPACE BETWEEN THE GAS PIPING AND THE SLEEVE SHALL BE SEALED.
- GAS PIPING ABOVE GROUND: WHERE PASSING THROUGH AN OUTSIDE WALL, GAS PIPING SHALL BE PROTECTED AGAINST CORROSION BY COATING OR WRAPPING WITH AN INERT MATERIAL. WHERE PIPING IS ENCASED IN A PROTECTIVE PIPE SLEEVE, THE ANNULAR SPACE BETWEEN THE PIPING AND THE SLEEVE SHALL BE SEALED.
- GAS PIPE SUPPORT: FUEL LINES SHALL BE SUPPORTED OR STRAPPED, AND SHALL BE PLUMB AND SQUARE.
- GAS PIPING ON ROOFTOPS SHALL BE SUPPORTED AND ANCHORED TO THE ROOF.
- GAS PIPING SHALL NOT BE BURIED UNDER A BUILDING, SLAB OR OTHER STRUCTURE.
- GAS PIPING PROTECTIVE COATING: PAINT ALL EXTERIOR EXPOSED GAS PIPING WITH TWO COATS OF ROOF INHIBITIVE PAINT. COLOR: GRAY.
- WATER HAMMER ARRESTORS: PROVIDE AT THE END OF HOT AND COLD WATER LINES SERVING TWO OR MORE FIXTURES; SIZE IN ACCORDANCE WITH PLUMBING AND DRAINAGE INSTITUTE (PDI) REQUIREMENTS. WATER HAMMER ARRESTORS ARE REQUIRED FOR QUICK CLOSING VALVES, SUCH AS LAUNDRY WASHERS, FLUSH VALVES (PUBLIC TOILETS), ETC.
- TRAP PRIMERS AS SPECIFIED: PROVIDE TRAP PRIMERS AND PIPING FOR FLOOR DRAINS, FLOOR SINKS, AREA DRAINS & HUB DRAINS. ARRANGE PIPING TO ACHIEVE EQUAL FLOW TO EACH DRAIN AND FLOOR SINK FOR TRAP PRIMERS SERVING MULTIPLE DRAINS AND FLOOR SINKS. COORDINATE EXACT LOCATIONS WITH ARCHITECT & ELECTRICAL ENGINEER.
- P-TRAPS: ALL EXPOSED P-TRAPS SHALL BE CHROME-PLATED BRASS. P-TRAPS SERVING HANDICAPPED COUNTER TOP LAVATORIES SHALL BE INSULATED.
- THROUGHOUT THE PROJECT PROVIDE BALL VALVES. GATE VALVES SHALL NOT BE USED. NO EXCEPTIONS.
- HOT WATER RECIRCULATING BALANCING VALVES SHOULD BE BELL & GOSSETT CIRCUIT SETTER (WATTS OR EQUAL) WITH INTEGRAL READOUT PORTS, ADJUSTMENT KNOB, DRAIN CONNECTION, AND POSITIVE SHUTOFF.
- DISASSEMBLY PROVISIONS: PROVIDE UNIONS OR FLANGES AT PIPING CONNECTIONS TO EQUIPMENT, COILS, TRAPS, CONTROL VALVES, AND OTHER COMPONENTS TO ALLOW DISASSEMBLY FOR MAINTENANCE.
- REDUCERS: PROVIDE AS REQUIRED FROM LINE PIPE SIZE TO EQUIPMENT, TRAP, COIL, AND CONTROL VALVE CONNECTION SIZES.
- VALVE TAGS: PROVIDE VALVE TAGS PER SPECIFICATIONS TO IDENTIFY VALVE AND THE AREA IT SERVES.
- OFFSETS: PROVIDE FOR BRANCH LINES TO EQUIPMENT.
- ALL TEMPERATURE MIXING VALVES SHALL COMPLY WITH ASSE-1070 SAFETY STANDARDS.
- PROVIDE PIPE MARKER WITH DIRECTION OF FLOW. LABEL "NON-POTABLE WATER DO NOT DRINK" CLEARLY ON NON-POTABLE WATER PIPING.
- PROVIDE EXPANSION LOOPS/EXPANSION JOINTS IN PIPING PER 2021 UPC TABLE 313.3 AND MANUFACTURER INSTALLATION INSTRUCTIONS.
- PROVIDE APPROVED PIPE HANGERS & PIPE SUPPORTS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND 2021 UPC TABLES 313.3 & 313.6. SUBMIT FOR APPROVAL.
- DIELECTRIC UNIONS: PROVIDE AT CONNECTIONS OF DISSIMILAR PIPE.
- REFRIGERANT PIPING: PROVIDE SIZING & INSTALLATION IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- CONDENSATE DRAIN: PROVIDE A P-TRAP FOR EACH HVAC UNIT CONDENSATE PAN WITH PLUG TEES FOR CLEANING. CONDENSATE DRAINS SHALL BE DISCHARGED TO AN INDIRECT WASTE OR OUTSIDE.
- PIPING & EQUIPMENT SUPPORTS/HANGERS & SEISMIC RESTRAINTS TO BE DESIGNED BY DESIGN BUILT CONTRACTOR.
- IF NEEDED, PROVIDE VACUUM BREAKERS AT ALL HOSE BIBBS.
- FLOOR DRAINS OR SIMILAR TRAPS DIRECTLY CONNECTED TO THE DRAINAGE AND SUBJECT TO INFREQUENT USE SHALL BE PROVIDED WITH AN APPROVED AUTOMATIC MEANS OF MAINTAINING THEIR WATER SEALS IN ACCORDANCE WITH 2021 UPC 1007.0.
- INSULATION MATERIAL SHALL MEET CITY OF PUYALLUP QUALITY STANDARDS.
- ALL PIPING AND DUCTWORK SHALL BE INSULATED CONSISTENT WITH THE 2021 WASHINGTON STATE ENERGY CODE.
- BUILDING DRAIN AND VENT PIPING MATERIALS SHALL COMPLY WITH 2021 UPC 701.0 AND 903.0.
- ALL SANITARY SYSTEM MATERIAL SHALL BE LISTED BY AN APPROVED LISTING AGENCY.
- ALL STORAGE WATER HEATING EQUIPMENT SHALL BE PROVIDED WITH AN APPROVED, LISTED EXPANSION TANK OR OTHER DEVICE DESIGNED FOR INTERMITTENT OPERATION FOR THERMAL EXPANSION CONTROL PER 2021 UPC 608.3.
- WATER HEATERS SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENTS DUE TO SEISMIC MOTION PER 2021 UMC 507.2.
- MATERIAL EXPOSED WITHIN A DUCT OR PLENUM SHALL COMPLY WITH 2021 IMC 602.2.1.
- HVAC EQUIPMENT AND WATER HEATERS SHALL COMPLY WITH 2021 IMC CHAPTER 3.
- BOILERS SHALL COMPLY WITH ALL THE REQUIREMENTS OF 2021 UPC 505.4.
- PROVIDE EXPANSION TANKS FOR BOILERS PER 2021 UPC SECTION 608.3.
- SHOWERS AND TUB/SHOWER COMBINATIONS SHALL BE PROVIDED WITH MIXING VALVES PER 2021 UPC 408.0.
- PLUMBING FIXTURES AND FITTINGS SHALL COMPLY WITH CITY OF PUYALLUP WATER CONSERVATION STANDARDS.
- CONTRACTOR SHALL PROVIDE FIRESTOPPING AT PENETRATIONS AS NECESSARY TO RETAIN THE FIRE RATING OF ALL ASSEMBLIES. ALL WORK SHALL BE IN COMPLIANCE WITH CODE REQUIREMENTS FOR THE BUILDING CONSTRUCTION TYPE.
- ALL GARAGE DRAINS, TRASH ROOMS DRAINS & GARAGE TRENCH DRAINS SHALL BE TAKEN TO SAND/OIL INTERCEPTOR(S) BEFORE CONNECTING TO THE SANITARY SEWER SYSTEM.
- PLUMBING CONTRACTOR SHALL PROVIDE REDUCED PRESSURE BACKFLOW PREVENTERS OR OTHER APPROVED BACKFLOW PREVENTION DEVICE WHERE REQUIRED BY HEALTH AUTHORITIES, FOOD SERVICE DRAWINGS, APPLIANCE MANUFACTURER INSTRUCTIONS AND BY CODE.

PROVIDE REQUIRED & PROPER BACK FLOW PREVENTERS AS SPECIFIED FOR THE APPLIANCES INCLUDING, BUT NOT LIMITED TO: THE FOLLOWING:

- ICE MACHINES AND ICE MAKERS
- CARBONATED BEVERAGE DISPENSING SYSTEMS
- COFFEE BREWERS
- ESPRESSO MACHINES
- WATER FILTERS
- STEAM OR HOT WATER BOILERS
- IRRIGATION SYSTEM
- FIRE PROTECTION SYSTEM
- CHEMICAL TREATMENT SYSTEM
- SOAP/CHEMICAL DISPENSER SYSTEM
- COMMERCIAL WASHER

REVIEWS	DESCRIPTION	NO.	DATE				



DRAWN: JM	DESIGNED: JM	CHECKED: RJ	APPROVED: RJ
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PROJECT: EAST TOWN CROSSING
MULTIFAMILY DEVELOPMENT
PIONEER WAY & SHAW RD. PUYALLUP, WA

19401 40TH AVE W. SUITE 302
LYNNWOOD, WA 98036
PHONE: (206) 864-3343



ROBISON
ENGINEERING, INC

PERMIT PLANS	
12/31/2024	
SHEET TITLE: PLUMBING NOTES AND TABLES	
SHEET NO. P0.01	

Shell Permit Only. Separate Tenant Improvement Permit will be required prior to Occupancy.

PLUMBING CALCULATIONS

PRCNC20250094

DOMESTIC WATER PRESSURE CALCULATIONS		PRESSURE CHANGE (PSI)	RESIDUAL PRESSURE (PSI)
BASED ON 2021 UPC APPENDIX A			
(PVC) WATER ENTRY TO BOOSTER PUMP			
STREET PRESSURE, PSI <small>PER CALL WITH PUYALLUP WATER DIVISION. PRESSURE RANGE IS 55-60 PSI.</small>			55
HIGH-FLOW PRESSURE LOSS ALLOWANCE		-4	51
EQUIPMENT LOSSES, PSI			
CIVIL WATER METER		-5	46
CIVIL BACKFLOW PREVENTER		-12	34
SITE SERVICE LINE FRICTION LOSSES(ESTIMATE)			
PIPING SYSTEM LENGTH, FEET	60		
FITTING ALLOWANCE, FEET	20		
AVERAGE FRICTION LOSS FACTOR, PSI/100'	7.0		
TOTAL PIPING FRICTION LOSS		-5.6	28.4
STATIC HEAD, PSI			
TOTAL ELEVATION GAIN, FEET	3	-1.299	27.1
FROM UNDERGROUND WATER SERVICE TO BUILDING WATER ENTRY POINT			
MIN. PRESSURE AT BOOSTER PUMP INLET			27.1
(CPVC) BOOSTER PUMP TO FURTHEST TENANT SUB-METER			
BOOSTER PUMP GAIN			
MINIMUM PRESSURE AT BOOSTER PUMP INLET, PSI			27.1
BOOSTER PUMP PRESSURE GAIN, PSI			52.9
BOOSTER PUMP DISCHARGE PRESSURE, PSI			80.0
STATIC HEAD, PSI			
TOTAL ELEVATION GAIN, FEET	8	-3.464	76.5
PIPING FRICTION LOSSES			
PIPING SYSTEM LENGTH, FEET	110		
FITTING ALLOWANCE, FEET	27.5		
AVERAGE FRICTION LOSS FACTOR, PSI/100'	7.0		
PIPING FRICTION LOSS		-9.625	66.9
MIN. PRESSURE AT FURTHERST UNIT SUB-METER			66.9
(CPVC) FURTHEST ANTICIPATED FIXTURE IN TI			
EQUIPMENT LOSSES PSI			
TENANT SUB-METER		-5	61.9
PEX PIPING FRICTION LOSSES			
PIPING SYSTEM LENGTH, FEET	100		
FITTING ALLOWANCE, FEET	25		
ZONE FRICTION LOSS FACTOR, PSI/100'	7.0		
PIPING FRICTION LOSS		-8.75	53.2
MINIMUM PRESSURE AT FURTHEST FIXTURE, PSI			53.2

FIXTURE UNIT CALCULATIONS - LOT 1											
CALCULATIONS BASED ON 2021 UPC TABLES A103.1 AND 702.1.											
PUBLIC SPACES / MISC.											
FIXTURE	FIXTURE UNITS				FLOOR		TOTAL QTY OF FIXTURES	TOTAL FIXTURE UNITS			
	TOTAL	CW	HW	W/V	1	R		SERVICE	CW ONLY	HW ONLY	W/V ONLY
SUITE 1 COMMERCIAL	30	30	0	40	1	0	1	30	30	0	40
SUITE 2 COMMERCIAL	30	30	0	40	1	0	1	30	30	0	40
HUB DRAIN - 4"	0	0	0	8	1	0	1	0	0	0	8
FLOOR DRAIN - 4"	0	0	0	8	1	0	1	0	0	0	8
HOSE BIB	2.5/1	2.5/1	0	0	2	0	2	3.5	3.5	0	0
								63.5	63.5	0	96
TOTAL		CW	HW	W/V							
TOTAL FIXTURE UNITS:		63.5	63.5	0	96						
DOMESTIC WATER PEAK FLOW:		34.2 GPM									
REQUIRED SERVICE SIZES IN BUILDING:		DOMESTIC WATER				SEWER SIZE					
		SERVICE SIZE:				4"					
						1/4" PER FT					

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REVISED	DESCRIPTION								
		DATE							
NO.									



**ROBISON
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19401 40TH AVE W, SUITE 302
LYNNWOOD, WA 98036
206-864-3343 TEL
CONTACT: JEFF MACGILLIVRAY



DRAWN:	JM
DESIGNED:	JM
CHECKED:	RJ
APPROVED:	RJ

PROJECT: **EAST TOWN CROSSING**
MULTIFAMILY DEVELOPMENT
PIONEER WAY & SHAW RD. PUYALLUP, WA



**ROBISON
ENGINEERING, INC**

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PERMIT PLANS
12/31/2024

SHEET TITLE:
PLUMBING
CALCULATIONS

SHEET NO.
P0.02

PLUMBING SCHEDULES

PRCNC20250094

SUPPLY PIPE SIZING SCHEDULE - CPVC											
PIPE SIZE	FRICTION LOSS FACTOR:						7.0 PSI/100 FT				
	COLD WATER, FLUSH TANK			COLD WATER, FLUSH VALVE			HOT WATER			HOT WATER RECIRCULATION	
	FIXTURE UNITS	FLOW, GPM	VELOCITY, FPS	FIXTURE UNITS	FLOW, GPM	VELOCITY, FPS	FIXTURE UNITS	FLOW, GPM	VELOCITY, FPS	FLOW, GPM	VELOCITY, FPS
1/2"	1.8	2.80	3.90	---	---	---	3.2	3.20	4.40	1.50	2.00
3/4"	7.5	6.50	4.80	---	---	---	7.7	6.70	5.00	2.70	2.00
1"	15.2	11.20	5.00	---	---	---	15.2	11.20	5.00	4.50	2.00
1-1/4"	30.0	20.00	5.00	---	---	---	30.0	20.00	5.00	8.00	2.00
1-1/2"	46.3	27.50	5.00	10.5	27.50	5.00	46.3	27.50	5.00	11.00	2.00
2"	108.1	46.00	5.00	38.4	46.00	5.00	108.1	46.00	5.00	18.40	2.00
2-1/2"	205.3	66.10	5.00	93.5	66.10	5.00	205.3	66.10	5.00	26.40	2.00
3"	389.7	102.90	5.00	264.7	102.90	5.00	389.7	102.90	5.00	41.20	2.00
4"	807.3	179.20	5.00	779.8	179.20	5.00	807.3	179.20	5.00	71.7	2.0
6"	2738.5	406.20	5.00	2738.5	406.20	5.00	2738.5	406.20	5.00	162.5	2.0

EXPANSION TANK							
EQUIP NO.	SERVICE	CAPACITY (GAL)	TANK SIZE		OPERATING WEIGHT (LBS)	BASIS OF DESIGN	NOTES
			DIAMETER (INCHES)	HEIGHT (INCHES)			
ET-1	BOOSTER PUMP	53	24	45	734	AMTROL WX-447C	1,2

- NOTES:
- INSTALL IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS.
 - ALL DOMESTIC WATER EQUIPMENT SHALL BE NSF-61 LISTED.

PACKAGED BOOSTER PUMP										
EQUIP NO.	SERVICE	TYPE	FLOW PER PUMP, GPM	TOTAL FLOW, GPM	SUCTION PRESSURE / DISCHARGE PRESSURE (PSI)	MOTOR HP (PER PUMP)	ELECTRICAL	WEIGHT, LBS	BASIS OF DESIGN	NOTES
BP-1	DOMESTIC WATER	TRIPLEX	25.6	76.8	27 / 80	2	208V/15.3A	860	FLOWTHERM FMV3-1 NW	1,2,3,4,5

- NOTES:
- SINGLE POINT CONNECTION.
 - PROVIDE ALL REQUIRED VALVES, PIPING, CONTROLS, ETC. FOR A COMPLETE SYSTEM.
 - PROVIDE VFD'S FOR EACH PUMP.
 - ALL CLEAR WATER PUMPS OVER 2 HORSEPOWER SHALL COMPLY WITH US DEPARTMENT OF ENERGY (DOE) PUMP EFFICIENCY REQUIREMENTS. APPLICABLE PUMPS SHALL BEAR A PUMP EFFICIENCY INDEX (PEI) LABEL.
 - INSTALL PER MANUFACTURER'S RECOMMENDATION AND STATE AND LOCAL AHJ REQUIREMENTS.

GREASE INTERCEPTOR				
EQUIP NO.	SERVICE	LIQUID CAPACITY (GAL)	BASIS OF DESIGN	NOTES
GI-1	COMMERCIAL SPACES	1,588	SCHIER GB-1000	1,2

- NOTES:
- PROVIDE TRAFFIC RATED COVER AND CLEAN OUT OUTSIDE OF INTERCEPTOR.
 - PROVIDE HEAT TRACE FOR ALL EXPOSED GREASE WASTE PIPING.

The gravity grease interceptor sizing shall comply with UPC Section and Table 1014.3.6. If each tenant has 20 DFUs as labeled on sheet P2.00, a minimum 1,250 gallon grease interceptor is required, so the 1,588 gallon interceptor listed herein would be adequately sized.

REVISONS	DESCRIPTION	DATE	NO.						



ROBISON ENGINEERING, INC.
19401 40TH AVE W, SUITE 302
LYNNWOOD, WA 98036
206-864-5345 TEL
CONTACT: JEFF MACGILLIMRAY



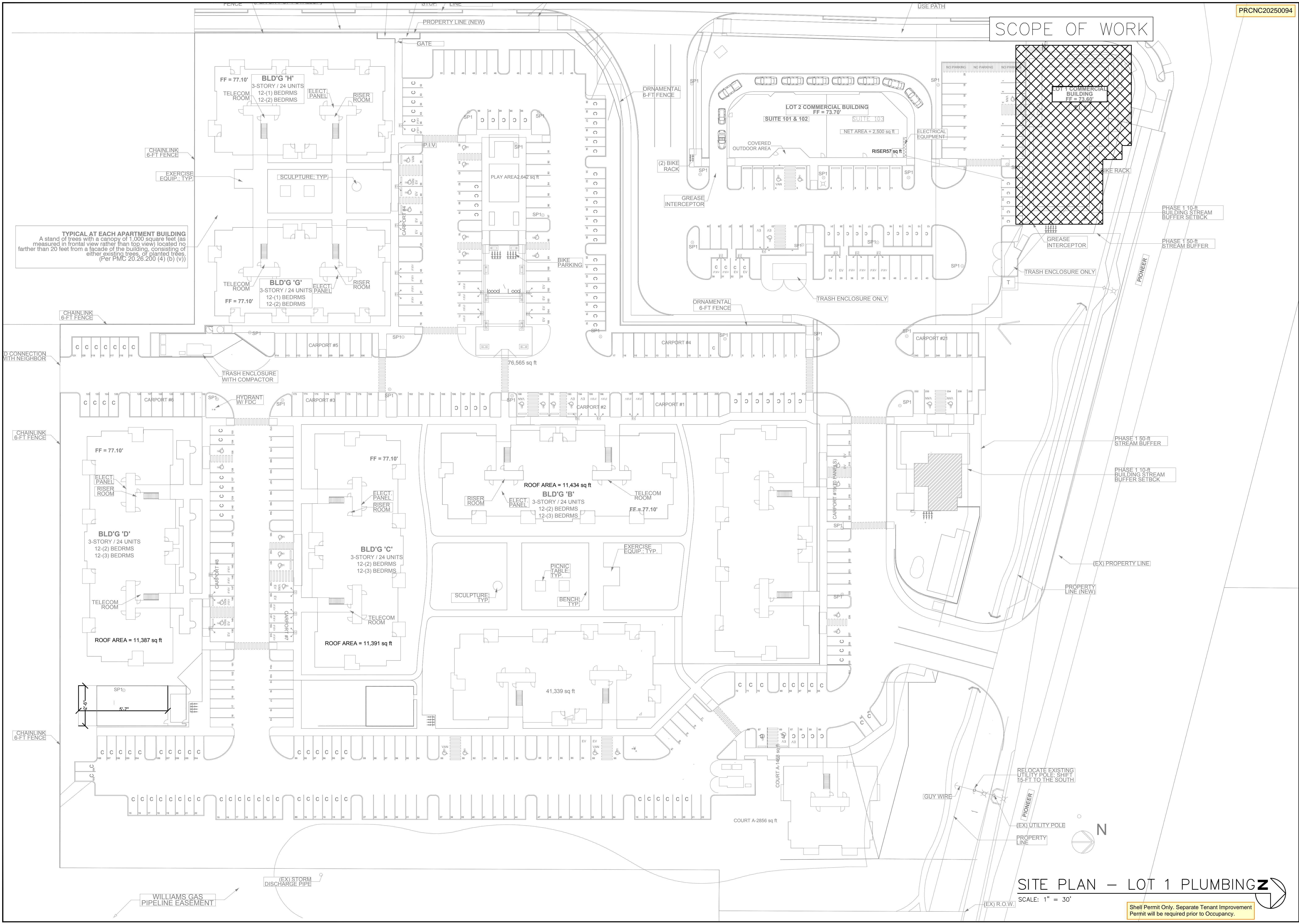
DRAWN:	JM
DESIGNED:	JM
CHECKED:	RJ
APPROVED:	RJ

PROJECT:
EAST TOWN CROSSING
MULTIFAMILY DEVELOPMENT
PIONEER WAY & SHAW RD. PUYALLUP, WA



ROBISON ENGINEERING, INC.
19401 40TH AVE W, SUITE 302
LYNNWOOD, WA 98036
PHONE: 206-864-5343

PERMIT PLANS
12/31/2024
SHEET TITLE: PLUMBING SCHEDULES
SHEET NO. P0.03




PRCNC20250094

REVISIONS		DESCRIPTION	
NO.	DATE	NO.	DATE



**ROBISON
ENGINEERING, INC.**
19401 40TH AVE. W. SUITE 302
LYNNWOOD, WA 98036
206-864-3343 TEL
CONTACT: JEFF MACGILLIVRAY



JEFF MACGILLIVRAY
REGISTERED PROFESSIONAL ENGINEER
STATE OF WASHINGTON
LICENSE NO. 10172
EXPIRES 10/17/2024

DRAWN:	JM
DESIGNED:	JM
CHECKED:	RJ
APPROVED:	RJ

PROJECT: **EAST TOWN CROSSING**
MULTIFAMILY DEVELOPMENT
PIONEER WAY & SHAW RD. PUYALLUP, WA

19401 40TH AVE. W. SUITE 302
LYNNWOOD, WA 98036
PHONE: 206-864-3343



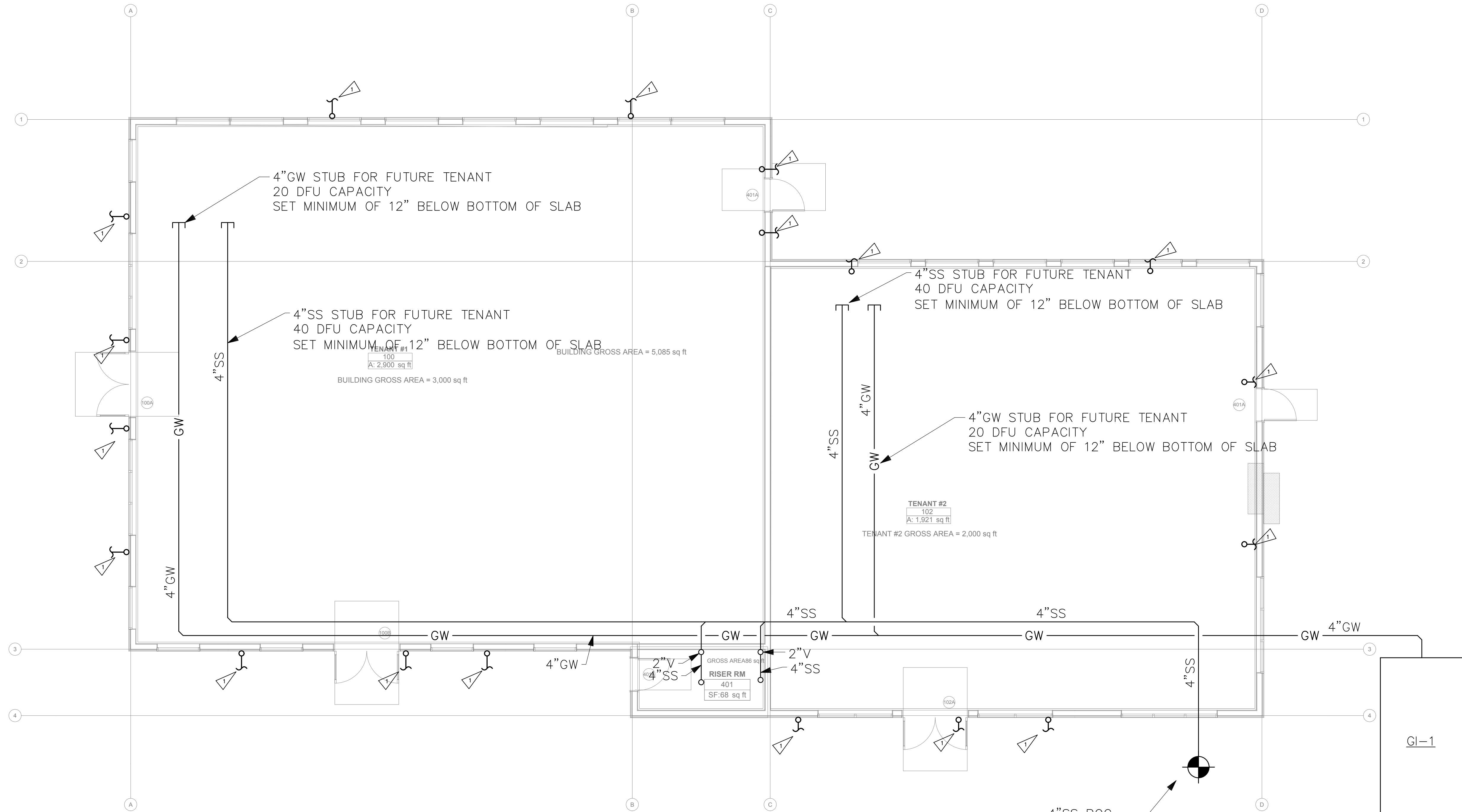
**ROBISON
ENGINEERING, INC.**

PERMIT PLANS
12/31/2024

SHEET TITLE:
SITE PLAN -
PLUMBING

SHEET NO.
P1.00

Shell Permit Only. Separate Tenant Improvement Permit will be required prior to Occupancy.



GENERAL NOTES

- PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS AND HUB DRAINS PER 2021 UPC 1007.1.
- WASTE & VENT SIZING: WASTE & VENT PIPING IS SIZED PER 2021 UPC TABLE 703.2. DRAINAGE PIPING SHALL BE SLOPED AT 1/4" PER FOOT OR 2% WHERE IT IS IMPRACTICAL TO OBTAIN A SLOPE OF 2% DUE TO THE DEPTH OF THE STREET SEWER OR TO STRUCTURAL FEATURES OF THE BUILDING, DRAINAGE PIPING MAY BE SLOPED AT 1/8" PER FOOT OR 1% WITH APPROVAL FROM THE AHJ.

PIPE SIZE	VERTICAL	HORIZONTAL	VENT
1 1/2"	2 DFU	1 DFU	8 DFU
2"	16 DFU	8 DFU	24 DFU
3"	48 DFU	35 DFU	84 DFU
4"	256 DFU	172 DFU	256 DFU
6"	1,380 DFU	576 DFU	1,380 DFU
8"	3,600 DFU	2,112 DFU	3,600 DFU

FLAG NOTES

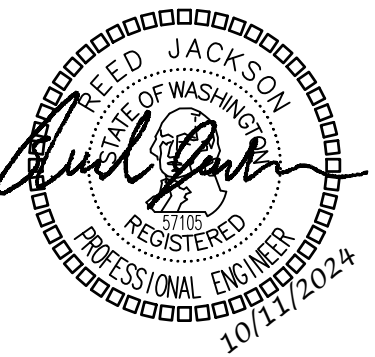
- 3"DOWNSPOUT - SEE CIVIL FOR CONTINUATION.

UNDERSLAB WASTE & VENT PLAN

SCALE: 3/16" = 1'-0"



REV	NO.	DESCRIPTION	
		DATE	BY



DRAWN:	JM
DESIGNED:	JM
CHECKED:	RJ
APPROVED:	RJ

PROJECT: **EAST TOWN CROSSING**
MULTIFAMILY DEVELOPMENT
PIONEER WAY & SHAW RD. PUYALLUP, WA

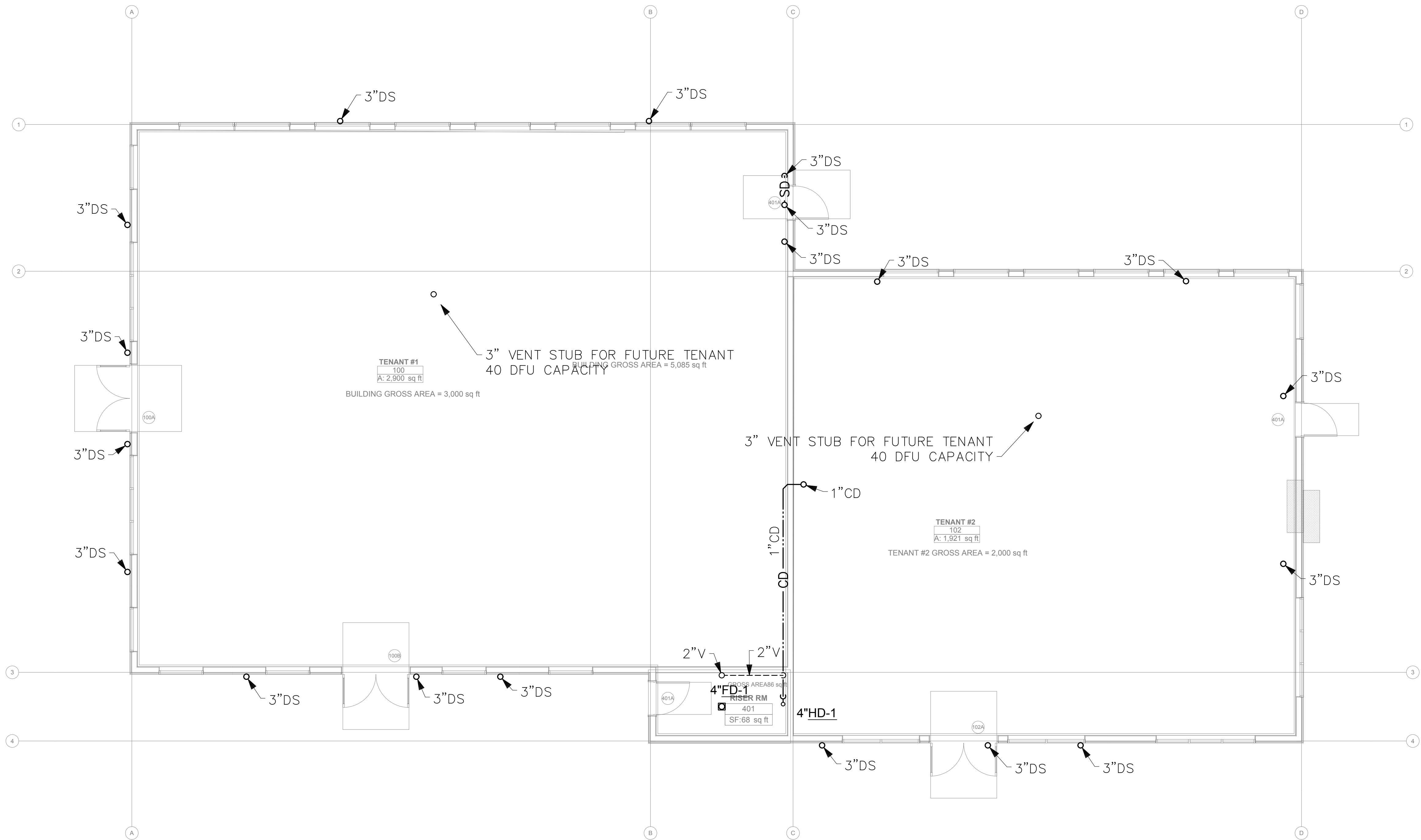
19401 40TH AVE W, SUITE 302
LYNNWOOD, WA 98036
PHONE: 206.364.5343

ROBISON ENGINEERING, INC.

PERMIT PLANS
12/31/2024

SHEET TITLE:
LOT 1 -
UNDERSLAB
WASTE & VENT
PLAN

SHEET NO.
P2.00



GENERAL NOTES

- PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS AND HUB DRAINS PER 2021 UPC 1007.1.
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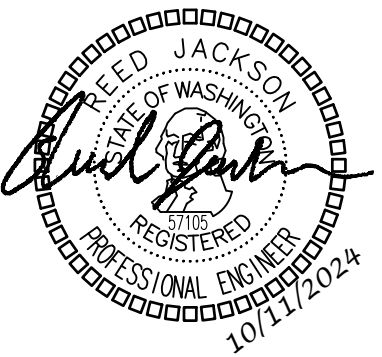
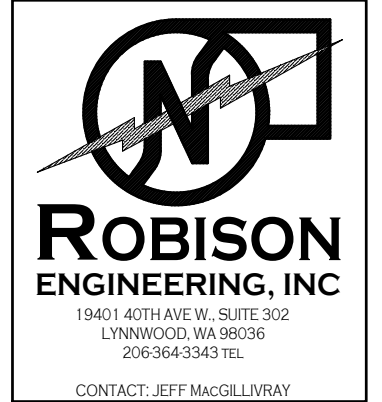
PIPE SIZE	VERTICAL	HORIZONTAL	VENT
1 1/2"	2 DFU	1 DFU	8 DFU
2"	16 DFU	8 DFU	24 DFU
3"	48 DFU	35 DFU	84 DFU
4"	256 DFU	172 DFU	256 DFU
6"	1,380 DFU	576 DFU	1,380 DFU
8"	3,600 DFU	2,112 DFU	3,600 DFU

LEVEL 1 WASTE & VENT PLAN

SCALE: 3/16" = 1'-0"



REVISIONS	DESCRIPTION	DATE	NO.



DRAWN:	JM
DESIGNED:	JM
CHECKED:	RJ
APPROVED:	RJ

PROJECT: **EAST TOWN CROSSING**
MULTIFAMILY DEVELOPMENT
PIONEER WAY & SHAW RD. PUYALLUP, WA

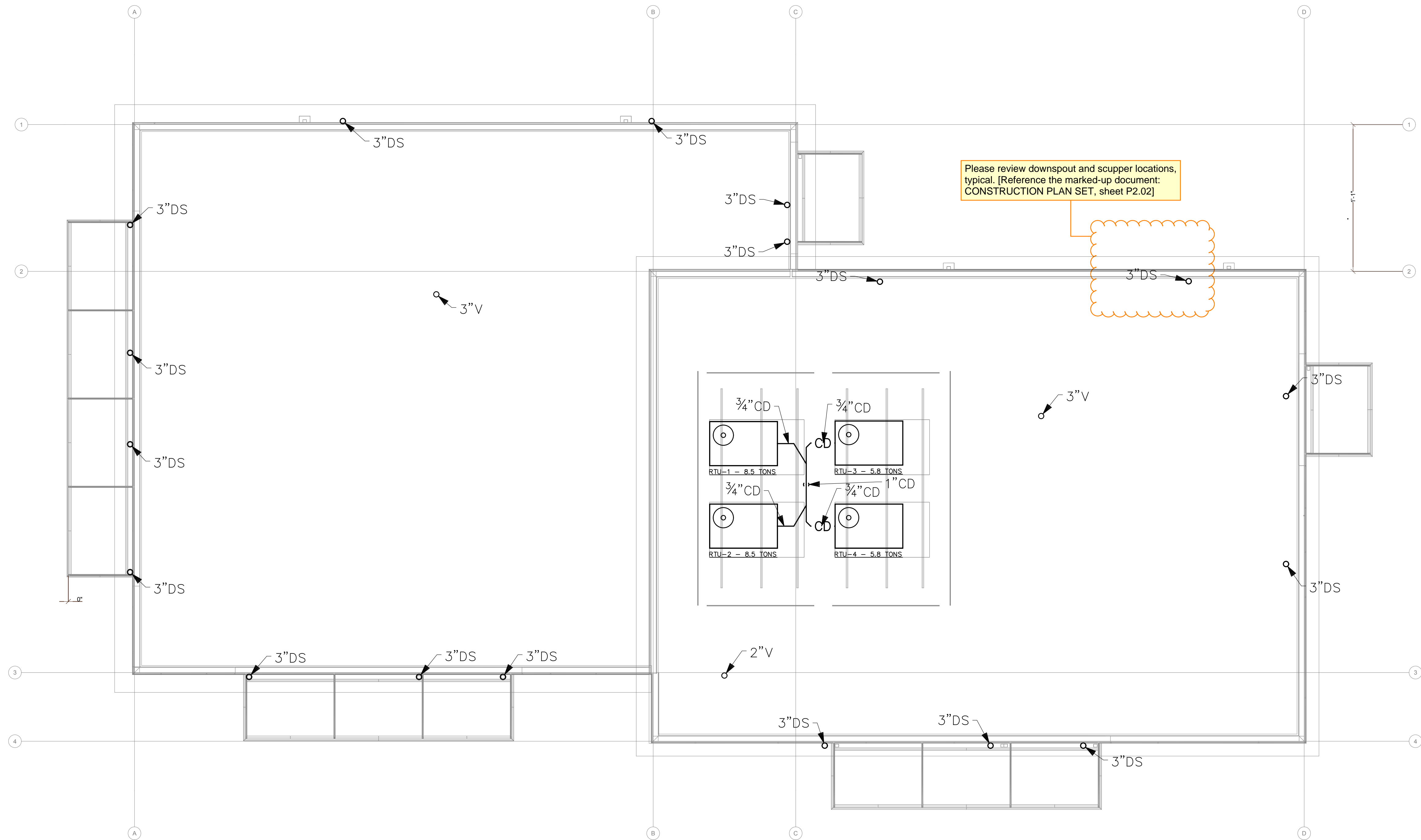
19401 40TH AVE W, SUITE 302
LYNNWOOD, WA 98036
PHONE: 206-864-3343

ROBISON ENGINEERING, INC.

PERMIT PLANS
12/31/2024

SHEET TITLE:
LOT 1 - LEVEL 1
WASTE & VENT
PLAN

SHEET NO.
P2.01



GENERAL NOTES

1. PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS AND HUB DRAINS PER 2021 UPC 1007.1.
2. WASTE & VENT SIZING: WASTE & VENT PIPING IS SIZED PER 2021 UPC TABLE 703.2. DRAINAGE PIPING SHALL BE SLOPED AT 1/4" PER FOOT OR 2%. WHERE IT IS IMPRACTICAL TO OBTAIN A SLOPE OF 2% DUE TO THE DEPTH OF THE STREET SEWER OR TO STRUCTURAL FEATURES OF THE BUILDING, DRAINAGE PIPING MAY BE SLOPED AT 1/8" PER FOOT OR 1% WITH APPROVAL FROM THE AHJ.

PIPE SIZE	VERTICAL	HORIZONTAL	VENT
1½"	2 DFU	1 DFU	8 DFU
2"	16 DFU	8 DFU	24 DFU
3"	48 DFU	35 DFU	84 DFU
4"	256 DFU	172 DFU	256 DFU
6"	1,380 DFU	576 DFU	1,380 DFU
8"	3,600 DFU	2,112 DFU	3,600 DFU

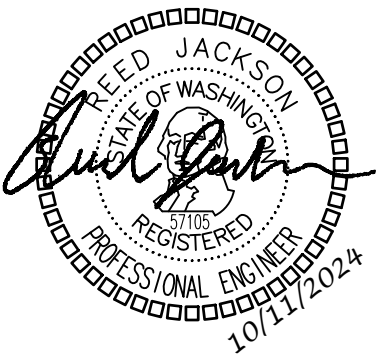
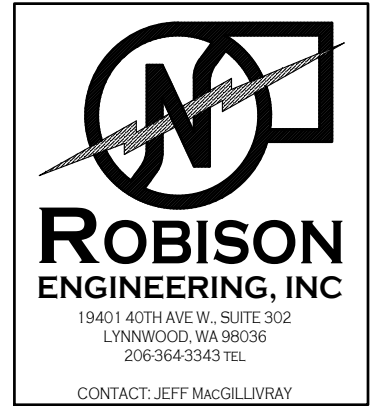
ROOF WASTE & VENT PLAN

SCALE: 3/16" = 1'-0"



Shell Permit Only. Separate Tenant Improvement Permit will be required prior to Occupancy.

REVISONS	DESCRIPTION	NO.	DATE



DRAWN: JM	DESIGNED: JM	CHECKED: RJ	APPROVED: RJ
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PROJECT:
EAST TOWN CROSSING
MULTIFAMILY DEVELOPMENT
PIONEER WAY & SHAW RD. PUYALLUP, WA

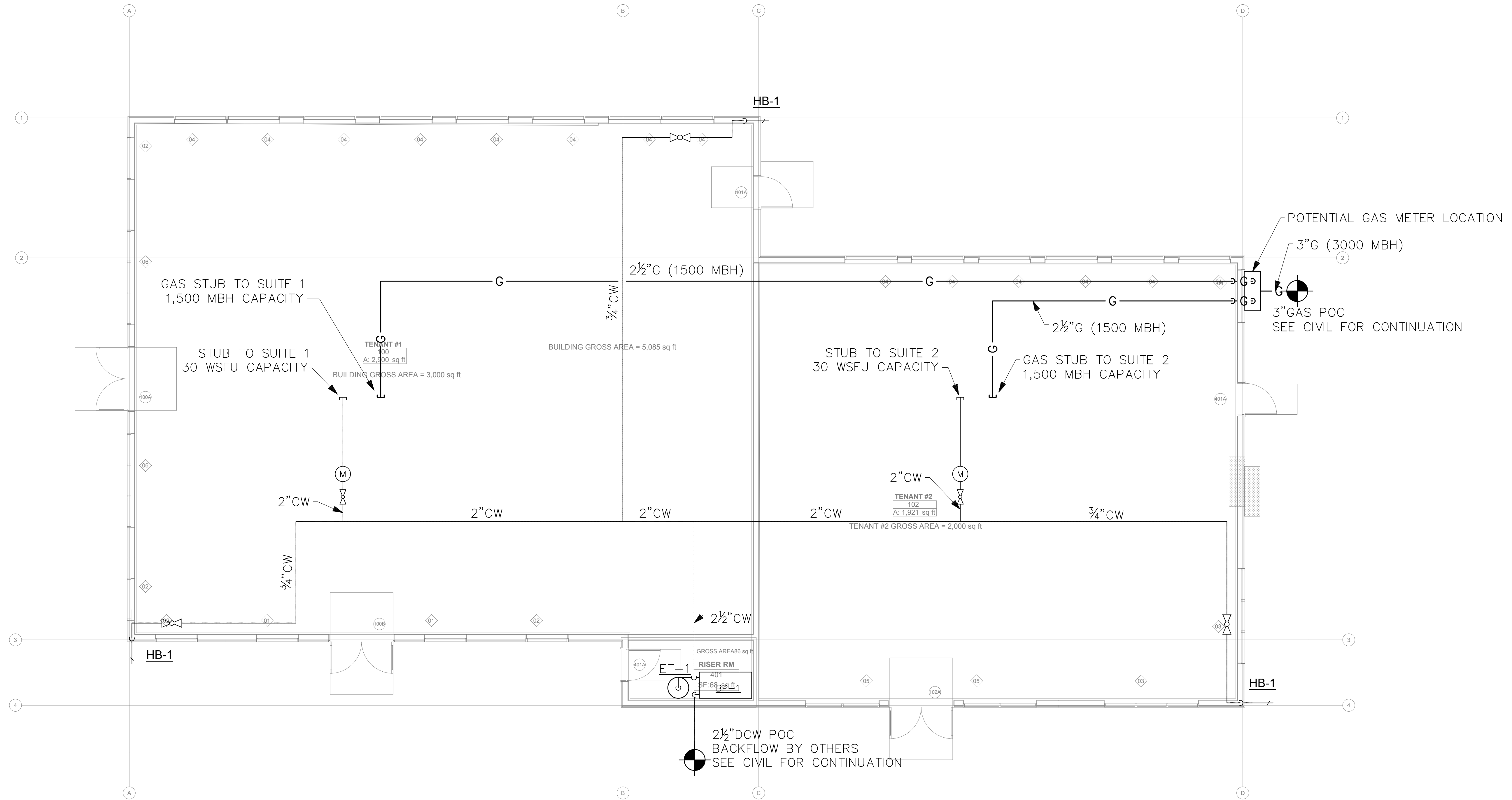
ROBISON
ENGINEERING, INC

19401 40TH AVE W, SUITE 302
LYNNWOOD, WA 98036
PHONE: 206-864-3343

PERMIT PLANS
12/31/2024

SHEET TITLE:
LOT 1 - ROOF
WASTE & VENT
PLAN

SHEET NO.
P.02

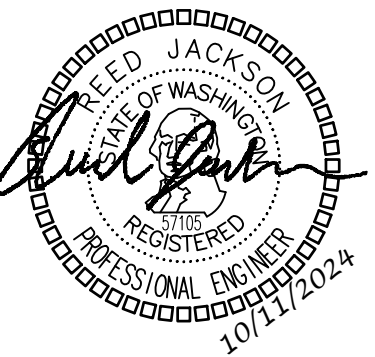
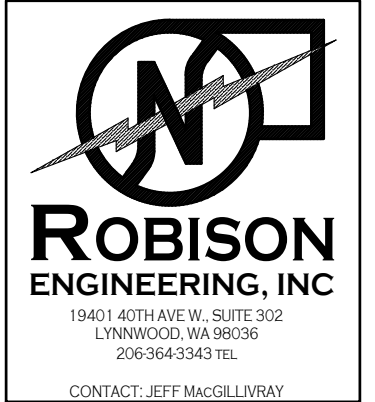


GENERAL NOTES

1. PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS AND HUB DRAINS PER 2021 UPC 1007.1.
2. PROVIDE EXPANSION LOOPS FOR ALL SUPPLY PIPING AND INSTALL PER MANUFACTURES RECOMMENDATIONS.

SUPPLY PLAN
SCALE: 3/16" = 1'-0"

REVISIONS		DESCRIPTION	
NO.		DATE	



DRAWN:	JM
DESIGNED:	JM
CHECKED:	RJ
APPROVED:	RJ

PROJECT:

EAST TOWN CROSSING
MULTIFAMILY DEVELOPMENT
PIONEER WAY & SHAW RD. PUYALLUP, WA

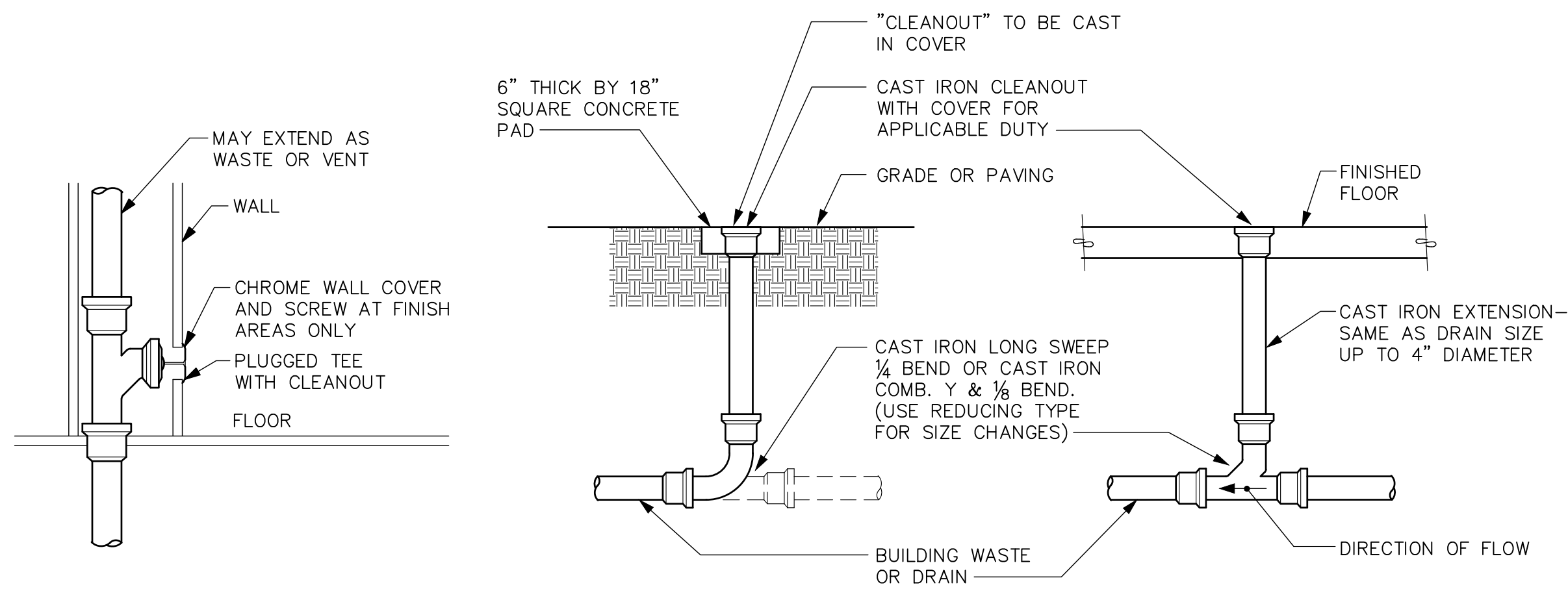
19401 40TH AVE W, SUITE 302
LYNNWOOD, WA 98036
PHONE: 206-864-3343

ROBISON ENGINEERING, INC.

PERMIT PLANS
12/31/2024

SHEET TITLE:
LOT 1 - FLOOR 1
SUPPLY PLAN

SHEET NO.
P3.01



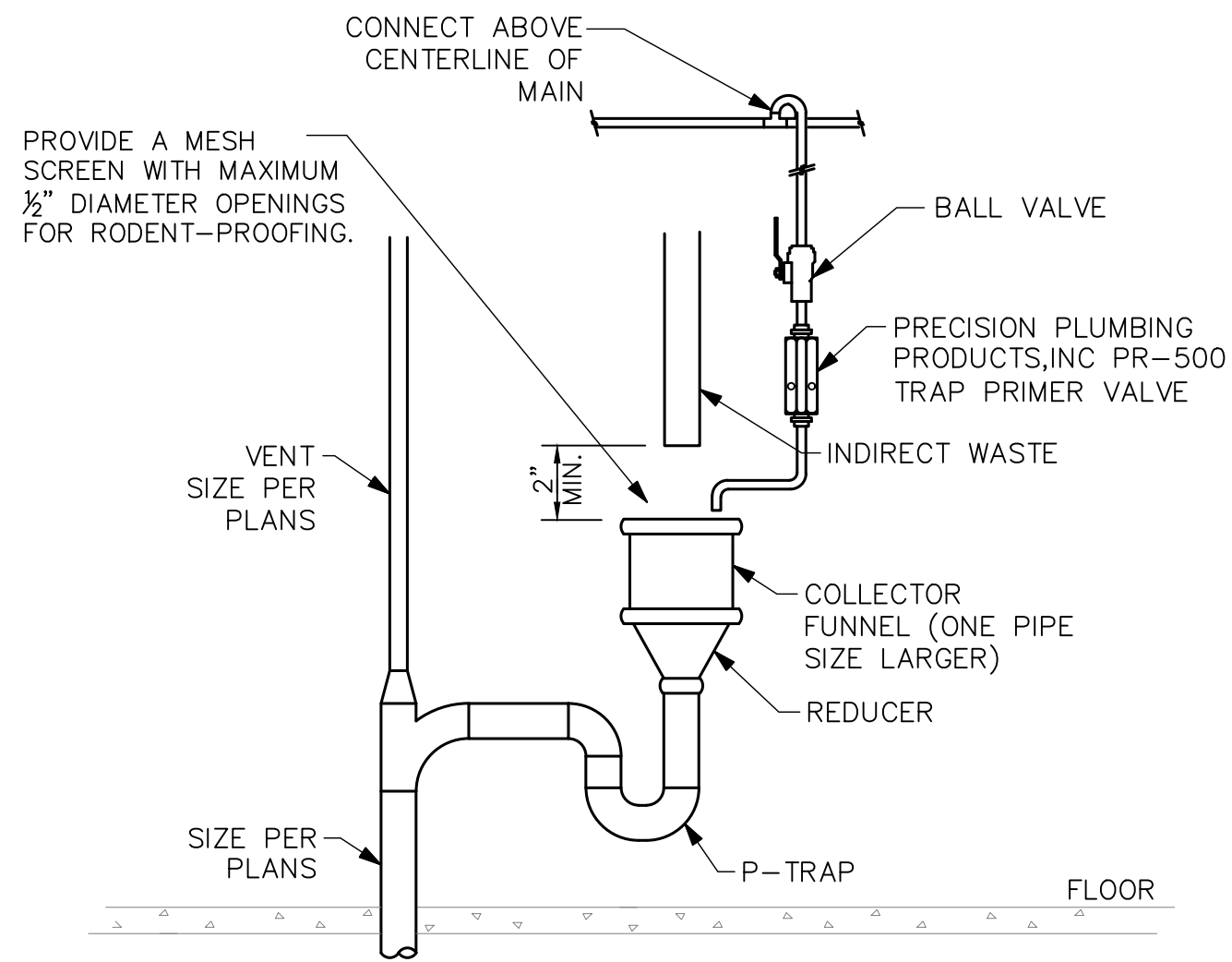
INTERIOR WALL CLEANOUT (WCO) EXTERIOR CLEANOUT TO GRADE (COTG) (LIGHT TRAFFIC AREA) INTERIOR FLOOR CLEANOUT (FCO)

CLEANOUTS

DETAIL

SCALE: NONE

6
P4.00

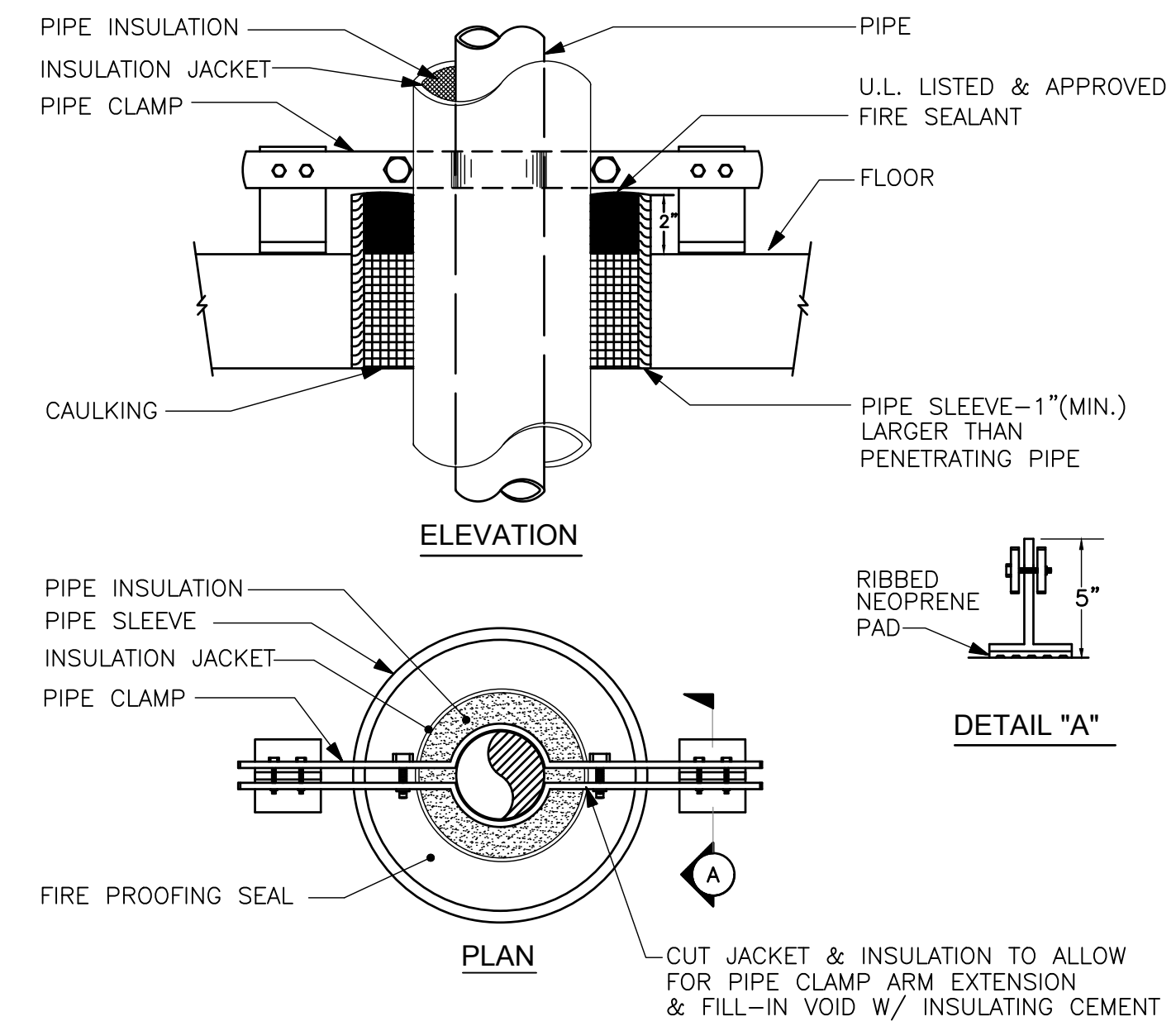


HUB DRAIN

DETAIL

SCALE: NONE

5
P4.00

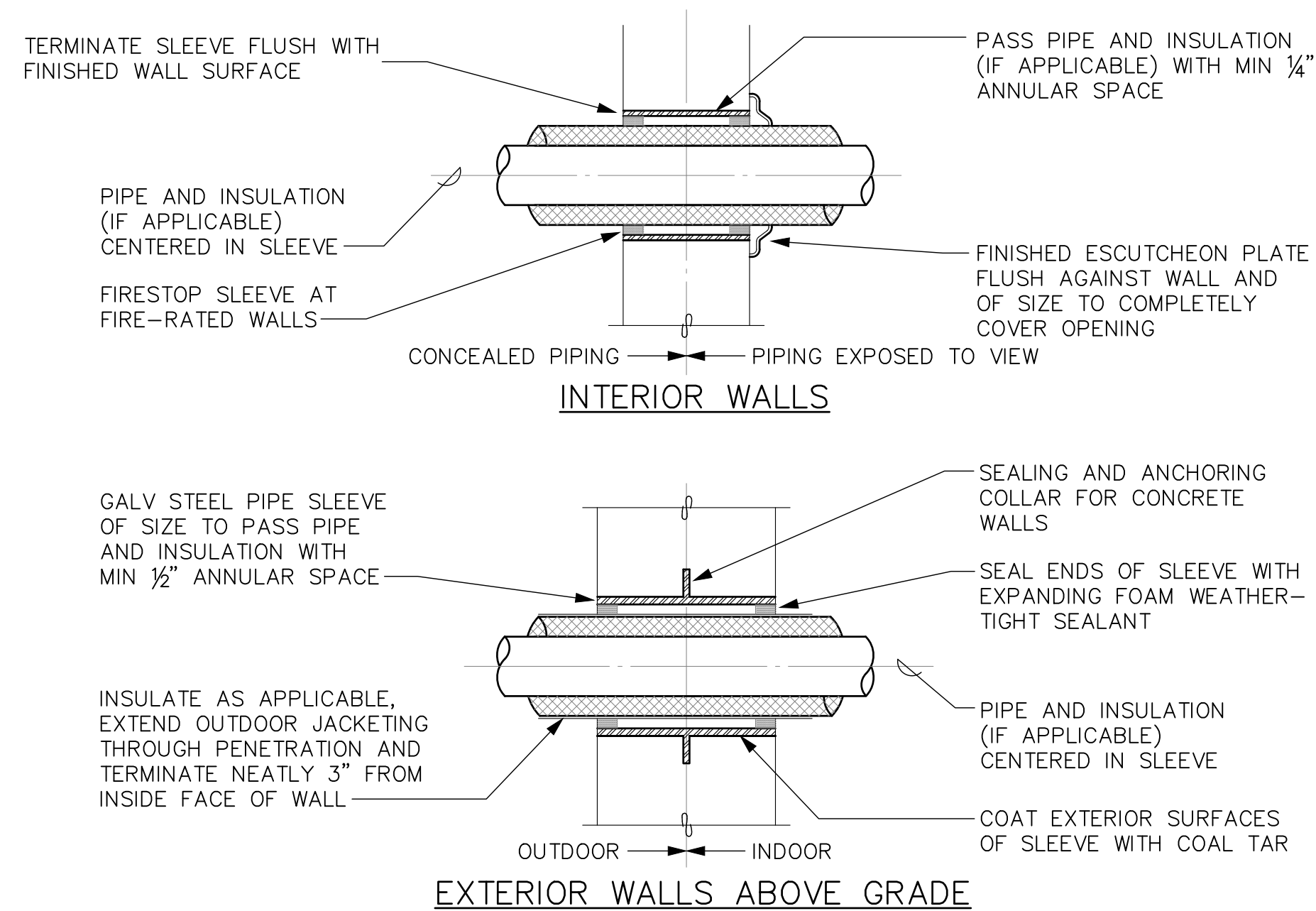


RISER PIPE SUPPORT

DETAIL

SCALE: NONE

4
P4.00

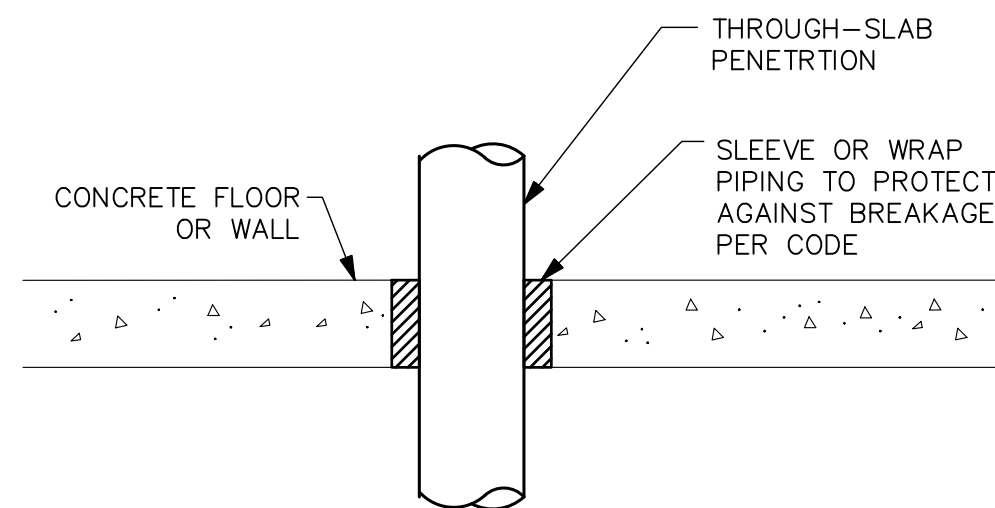


PIPE SLEEVES THROUGH WALLS

DETAIL

SCALE: NONE

3
P4.00

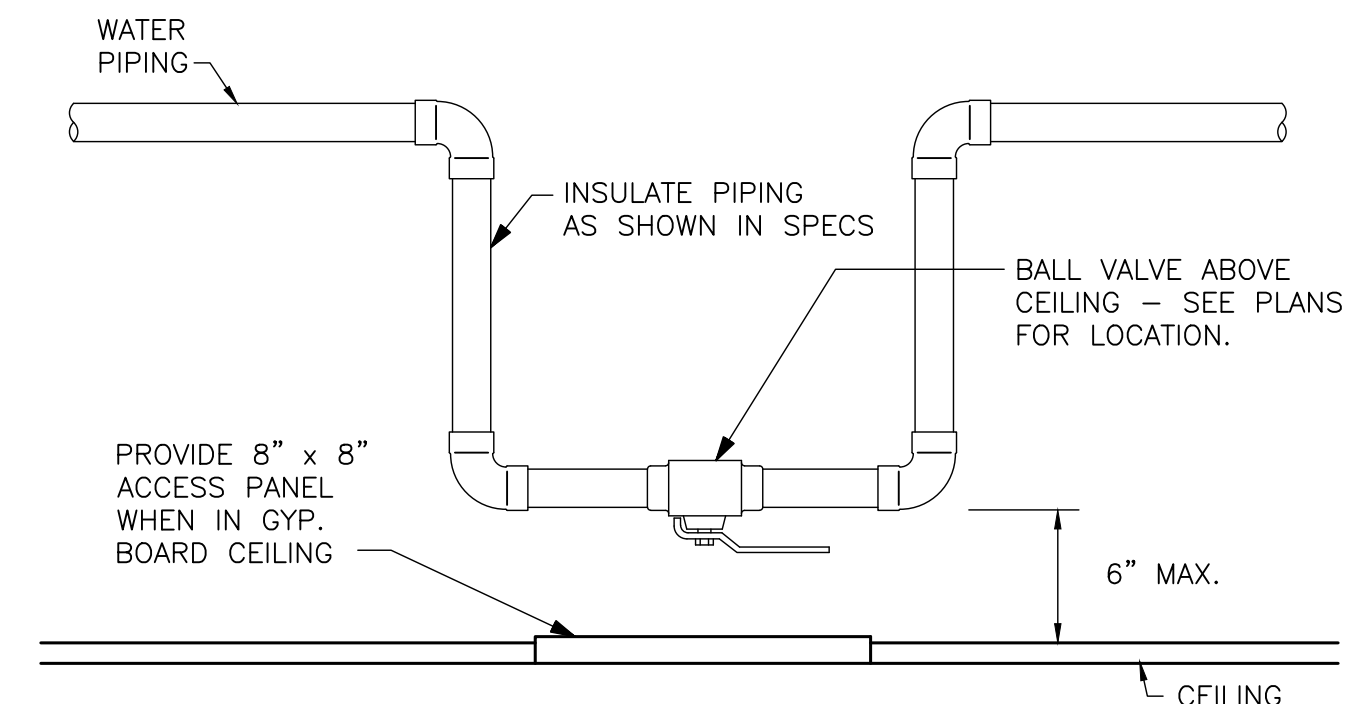


PIPE SLAB PENETRATION

DETAIL

SCALE: NONE

2
P4.00



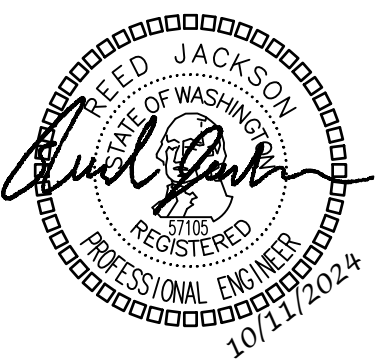
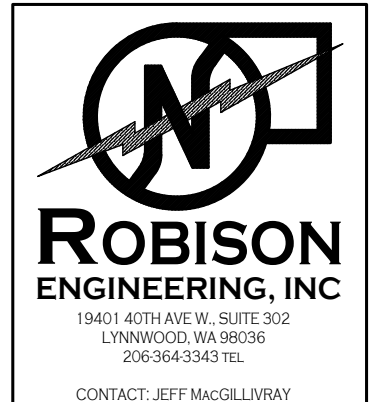
TYPICAL VALVE PLACEMENT

DETAIL

SCALE: NONE

1
P4.00

REVIEWS	DESCRIPTION	DATE	NO.



JM	JM	RJ	RJ
DRAWN:	DESIGNED:	CHECKED:	APPROVED:

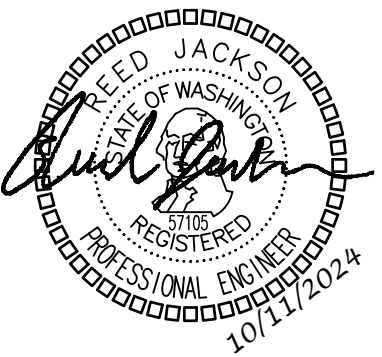
PROJECT: EAST TOWN CROSSING
MULTIFAMILY DEVELOPMENT
PIONEER WAY & SHAW RD. PUYALLUP, WA

19401 40TH AVE. W. SUITE 302
LYNNWOOD, WA 98036
PHONE: 206-864-3343

ROBISON ENGINEERING, INC.

PERMIT PLANS
12/31/2024
SHEET TITLE: DETAILS
SHEET NO. P4.00

REVISIONS	
NO.	DATE DESCRIPTION



DRAWN:	JM
DESIGNED:	JM
CHECKED:	RJ
APPROVED:	RJ

PROJECT: **EAST TOWN CROSSING**
MULTIFAMILY DEVELOPMENT
PIONEER WAY & SHAW RD. PUYALLUP, WA

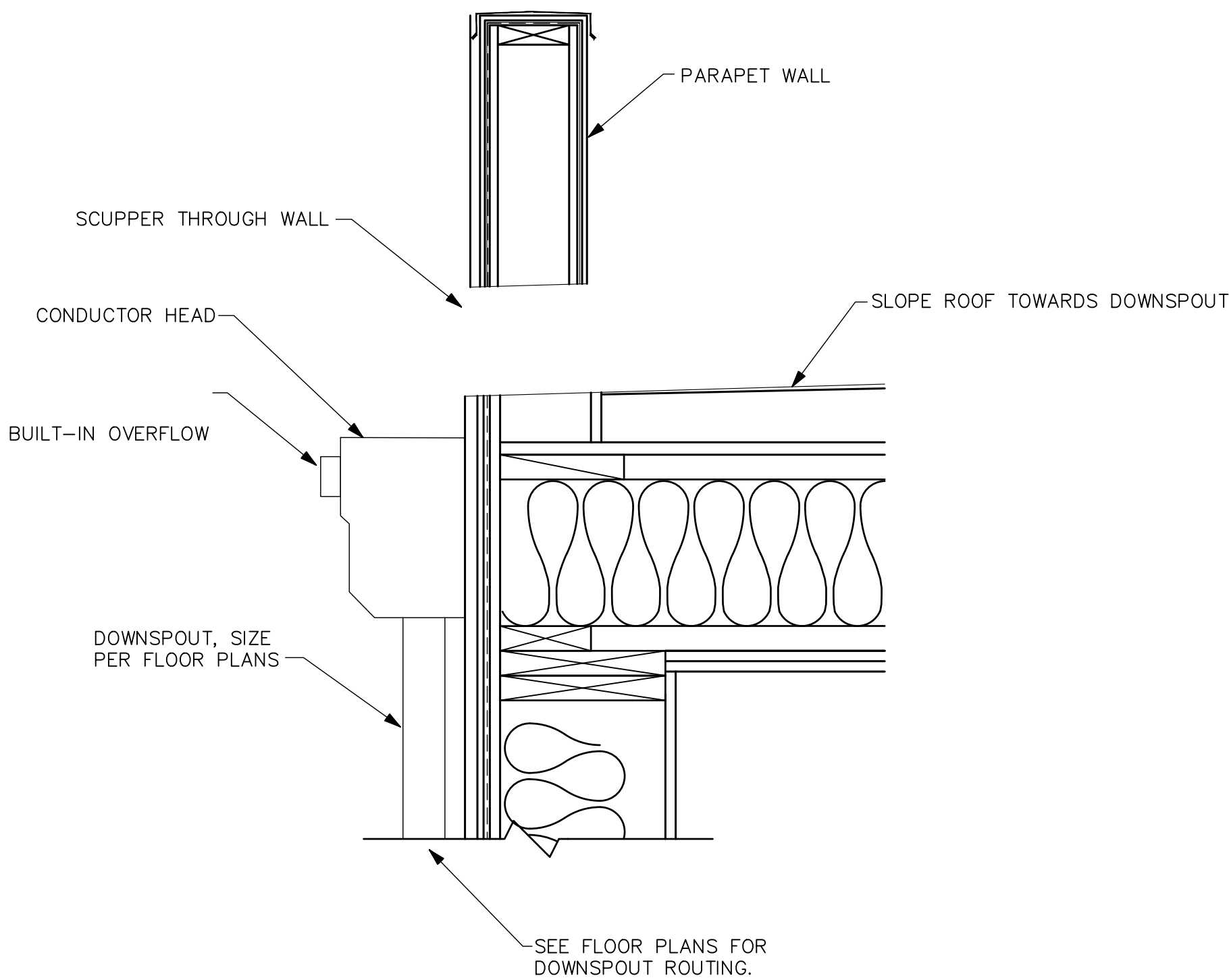
19401 40TH AVE W, SUITE 302
LYNNWOOD, WA 98036
PHONE: 206-864-5343

**ROBISON**
ENGINEERING, INC

PERMIT PLANS
12/31/2024

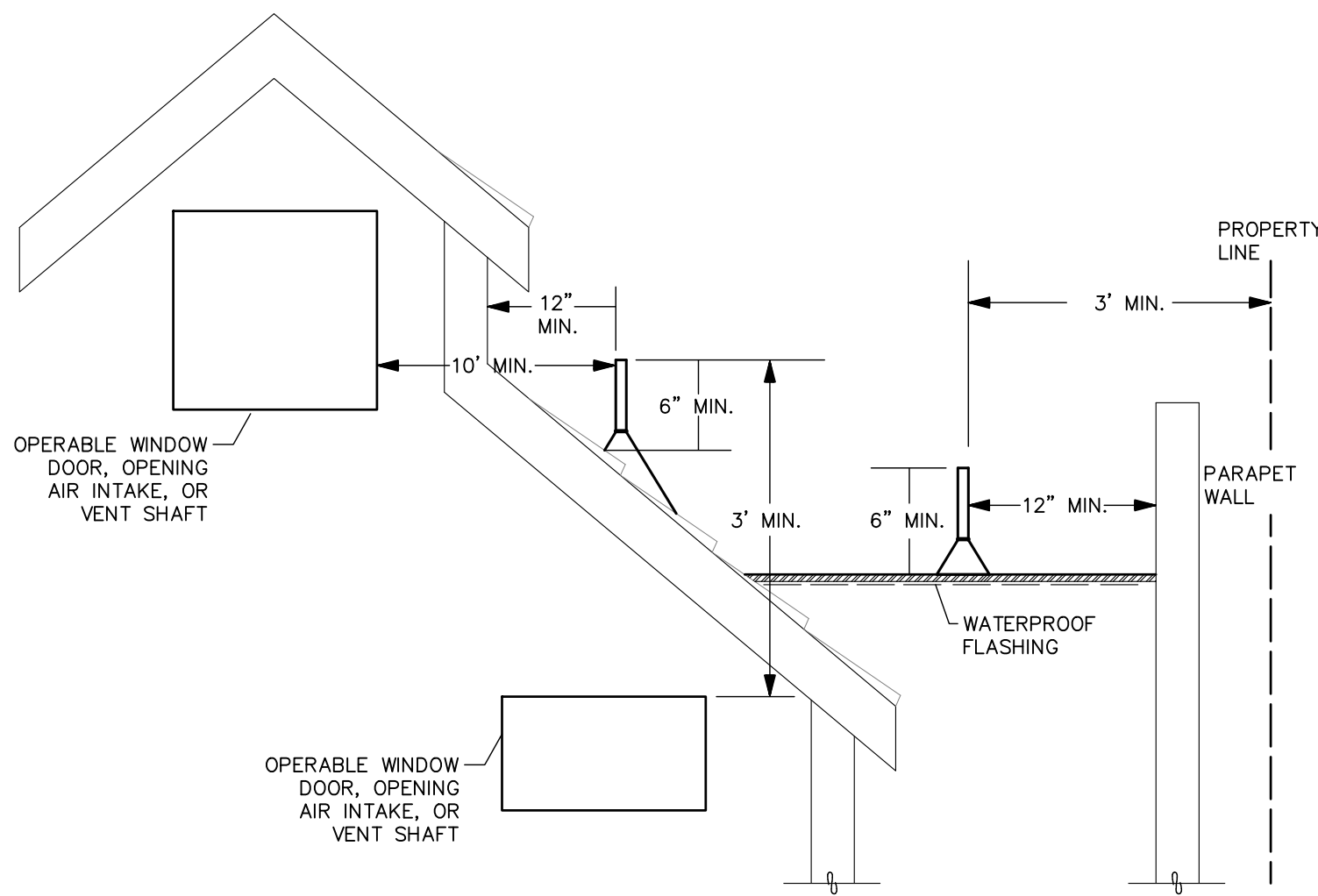
SHEET TITLE:
DETAILS

SHEET NO.
P4.01



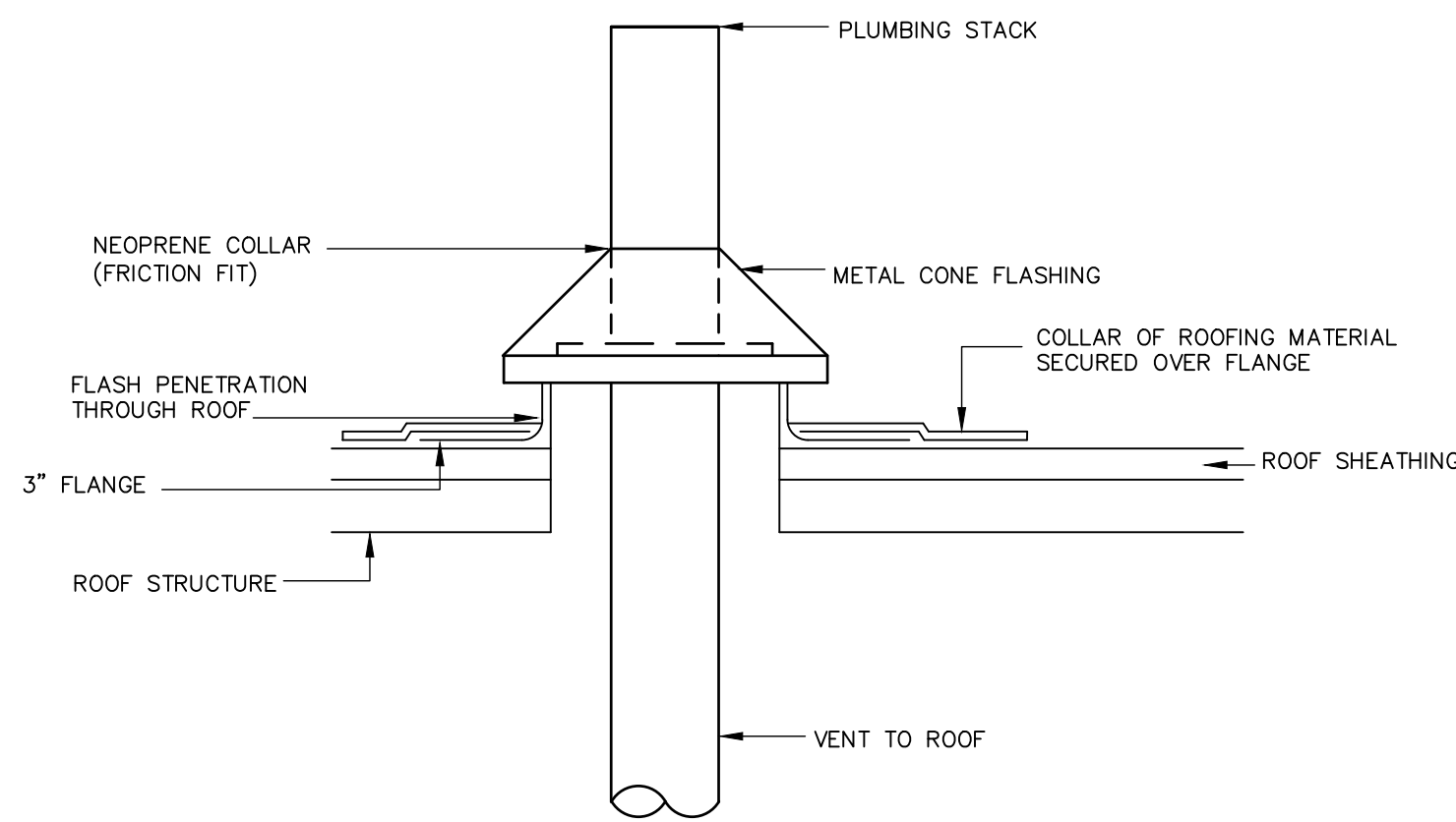
VENT TERMINATION
DETAIL
SCALE: NONE

3
P4.01



VENT TERMINATION
DETAIL
SCALE: NONE

2
P4.01



VENT THROUGH ROOF
DETAIL
SCALE: NONE

1
P4.01

[illegible]

L1S1

ROOM MOUNTING FLUSH FED FROM LOT1-MTR-1 NOTE				VOLTS 208Y/120V 3P 4W BUS AMPS 400 NEUTRAL 100%				AIC 22,000 MAIN BKR MLO LUGS STANDARD			
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION				
1	125/3	37.5	RTU-1	a 2	20/1	1.2	SIGN				
3				b 4	20/1	1.2	SIGN				
5				c 6	20/1	0.18	RECEPTACLE				
7	125/3	37.5	RTU-2	a 8	20/1	0.18	RECEPTACLE				
9				b 10	20/1	0.19	LIGHTING				
11				c 12	-/1	0	SPACE				
13	-/1	0	SPACE	a 14	-/1	0	SPACE				
15	-/1	0	SPACE	b 16	-/1	0	SPACE				
17	-/1	0	SPACE	c 18	-/1	0	SPACE				
19	-/1	0	SPACE	a 20	-/1	0	SPACE				
21	-/1	0	SPACE	b 22	-/1	0	SPACE				
23	-/1	0	SPACE	c 24	-/1	0	SPACE				
25	-/1	0	SPACE	a 26	-/1	0	SPACE				
27	-/1	0	SPACE	b 28	-/1	0	SPACE				
29	-/1	0	SPACE	c 30	-/1	0	SPACE				
31	-/1	0	SPACE	a 32	-/1	0	SPACE				
33	-/1	0	SPACE	b 34	-/1	0	SPACE				
35	-/1	0	SPACE	c 36	-/1	0	SPACE				
37	-/1	0	SPACE	a 38	-/1	0	SPACE				
39	-/1	0	SPACE	b 40	-/1	0	SPACE				
41	-/1	0	SPACE	c 42	-/1	0	SPACE				
								CONN KVA	CALC KVA		
LIGHTING								0.19	0.238	(125%)	
LARGEST MOTOR								37.5	9.37	(25%)	
								0.36	0.36	(50%>10)	
								CONN KVA	CALC KVA		
								0.36	0.36	(50%>10)	
								2.4	3	(125%)	
								74.9	74.9	(100%)	
								74.9	0	(0%)	
								87.9			
								244 A			
								102%			
								102%			
								96.9%			

L1S2

ROOM MOUNTING FLUSH FED FROM LOT1-MTR-2 NOTE				VOLTS 208Y/120V 3P 4W BUS AMPS 400 NEUTRAL 100%				AIC 22,000 MAIN BKR MLO LUGS STANDARD			
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION				
1	80/3	20.4	RTU-3	a 2	20/1	1.2	SIGN				
3				b 4	20/1	0.18	RECEPTACLE				
5				c 6	20/1	0.209	LIGHTING				
7	80/3	20.4	RTU-4	a 8	-/1	0	SPACE				
9				b 10	-/1	0	SPACE				
11				c 12	-/1	0	SPACE				
13	-/1	0	SPACE	a 14	-/1	0	SPACE				
15	-/1	0	SPACE	b 16	-/1	0	SPACE				
17	-/1	0	SPACE	c 18	-/1	0	SPACE				
19	-/1	0	SPACE	a 20	-/1	0	SPACE				
21	-/1	0	SPACE	b 22	-/1	0	SPACE				
23	-/1	0	SPACE	c 24	-/1	0	SPACE				
25	-/1	0	SPACE	a 26	-/1	0	SPACE				
27	-/1	0	SPACE	b 28	-/1	0	SPACE				
29	-/1	0	SPACE	c 30	-/1	0	SPACE				
31	-/1	0	SPACE	a 32	-/1	0	SPACE				
33	-/1	0	SPACE	b 34	-/1	0	SPACE				
35	-/1	0	SPACE	c 36	-/1	0	SPACE				
37	-/1	0	SPACE	a 38	-/1	0	SPACE				
39	-/1	0	SPACE	b 40	-/1	0	SPACE				
41	-/1	0	SPACE	c 42	-/1	0	SPACE				
								CONN KVA	CALC KVA		
LIGHTING								0.209	0.261	(125%)	
LARGEST MOTOR								20.4	5.09	(25%)	
								0.18	0.18	(50%>10)	
								1.2	1.5	(125%)	
								40.8	40.8	(100%)	
								40.8	0	(0%)	
								47.8			
								133 A			
								105%			
								97.5%			
								97.7%			

LOT1-MTR-1

ROOM MOUNTING SURFACE FED FROM LOT1-PULL NOTE			VOLTS 208Y/120V 3P 4W BUS AMPS 400 NEUTRAL 100%			AIC 42,000 MAIN BKR MLO LUGS STANDARD		
CKT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION	LOAD KVA			FEEDER RACEWAY AND CONDUCTORS		
			A	B	C			
1	400/3	PANEL L1S1	26.4	26.4	25.2	(2)2-1/2"C,3#250kcmil AL,#250kcmil AL N,#1 AL G		
TOTAL CONNECTED KVA BY PHASE			26.4	26.4	25.2			

LOT1-MTR-2

ROOM MOUNTING SURFACE FED FROM LOT1-PULL NOTE			VOLTS 208Y/120V 3P 4W BUS AMPS 400 NEUTRAL 100%			AIC 42,000 MAIN BKR MLO LUGS STANDARD				
CKT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION	LOAD KVA			FEEDER RACEWAY AND CONDUCTORS				
			A	B	C					
1	400/3	PANEL L1S2	14.8	13.8	13.8	(2)2-1/2"C,3#250kcmil AL,#250kcmil AL N,#1 AL G				
TOTAL CONNECTED KVA BY PHASE			14.8	13.8	13.8					
			CONN KVA		CALC KVA	CONN KVA		CALC KVA		
LIGHTING			0.209	0.261	(125%)	CONTINUOUS		1.2	1.5	(125%)
LARGEST MOTOR			20.4	5.09	(25%)	HEATING		40.8	40.8	(100%)
RECEPTACLES			0.18	0.18	(50%>10)	COOLING		40.8	0	(0%)
						TOTAL LOAD		47.8		
						BALANCED 3-PHASE LOAD		133 A		

LOT1-MTR-H

ROOM MOUNTING SURFACE FED FROM LOT1-PULL NOTE			VOLTS 208Y/120V 3P 4W BUS AMPS 200 NEUTRAL 100%			AIC 42,000 MAIN BKR MLO LUGS STANDARD		
CKT #	BREAKER TRIP /POLES	CIRCUIT DESCRIPTION	LOAD KVA			FEEDER RACEWAY AND CONDUCTORS		
			A	B	C			
1	200/3	PANEL LOT1-HOUSE	6	5.36	0.86	2-1/2"C,3#250kcmil AL,#250kcmil AL N,#4 AL G		
TOTAL CONNECTED KVA BY PHASE			6	5.36	0.86			
			CONN KVA		CALC KVA	CONN KVA		CALC KVA
LIGHTING	1.04	1.3	(125%)	MOTORS		8.64	8.64	(100%)
LARGEST MOTOR	2.88	0.72	(25%)	RECEPTACLES		1.54	1.54	(50%>10)
				HEATING		1	1	(100%)
			TOTAL LOAD		13.2			
			BALANCED 3-PHASE LOAD		36.6 A			

LOT1-PULL

RETAIL INTERIOR LUMINAIRE SCHEDULE								
CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	INPUT VA	VOLTS
C1E		(1) 17W LED	8" SURFACE DOWNLIGHT – CORRIDORS – EMERGENCY DRIVER BACKUP	0–10V DIMMING	SURFACE	DMF: DRDHNJ0150SEMS / DRD5S8R159300A	17	120V 1P 2W
S1		(1) 19W LED	4' LED LINEAR STRIP	0–10V DIMMING	SURFACE	LITHONIA: CLX L48 3000LM HEF RDL 120 GZ10 35K 80CRI WH	19	120V 1P 2W
X1		(1) 5W EM	EXIT SIGN – EMERGENCY BATTERY BACKUP – HATCH INDICATES LIT FACE	EM	SURFACE	LSI: EMS WB SERIES (OR EQUAL)	5	MULTIPLE

GENERAL LIGHTING NOTES

1. LIGHTING CONTROLS SHALL BE INSTALLED WHICH MEET ALL REQUIREMENTS OF LOCAL ENERGY CODES.
2. EMERGENCY LIGHT FIXTURES: PROVIDE UNSWITCHED HOT.
3. LOCATIONS OF OCCUPANCY SENSORS, PHOTO SENSORS, DIMMERS (FOR COMMON AREA INTERIOR LUMINAIRES ONLY), AND SWITCHES ARE DIAGRAMMATIC. CONTRACTOR TO FIELD–IDENTIFY OPTIMAL LOCATIONS AND QUANTITIES.
4. ASSURE COMPATIBILITY OF DIMMERS WITH CONTROLLED LUMINAIRES PRIOR TO PURCHASING.
5. AUTOMATIC LIGHTING SHUT–OFF CONTROLS SHALL BE PROVIDED BY LOCAL OCCUPANCY SENSORS UNLESS OTHERWISE NOTED. PUBLIC SPACES ARE ACTIVE 24/7 AND THEREFORE EXEMPT FROM AUTOMATIC LIGHTING SHUT–OFF REQUIREMENTS.
6. DAYLIGHT ZONES ARE REFERRED TO AS ‘PRIMARY’ AND ‘SECONDARY’ ON PLANS AND DENOTED BY DASHED LINES.
7. FOR CUSTOM FF&E FIXTURES, IT IS THE MANUFACTURER’S RESPONSIBILITY TO FURNISH PRODUCTS WHICH ARE COMPLIANT WITH ALL REQUIREMENTS OF LOCAL ENERGY CODES, AS WELL AS MATCH THE ELECTRICAL SPECIFICATIONS PROVIDED IN THE LUMINAIRE SCHEDULES. PROVIDE SUBMITTAL SHOP DRAWINGS WITHIN 30 DAYS OF RECEIVING FIXTURE ORDER. SUBMITTALS SHALL CLEARLY INDICATE LAMPING AND MAXIMUM WATTAGE RATING OF LAMP SOCKETS. NON–COMPLIANT FIXTURES REJECTED BY ELECTRICAL INSPECTOR SHALL BE RETURNED TO THE MANUFACTURER FOR REWORKING AND/OR RE–LABELING.
8. ALL FIXTURES SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER’S INSTRUCTIONS.
9. CONTRACTOR SHALL BE RESPONSIBLE TO ORDER ALL NECESSARY HARDWARE, ELECTRICAL CABLE, TIMERS, TRANSFORMERS, ETC., AS REQUIRED FOR COMPLETION OF INSTALLATION OF A FULLY FUNCTIONING SYSTEM.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR EQUIPPING ALL FIXTURES WITH THE EXACT LAMPS SPECIFIED IN THE FIXTURE SCHEDULE.
11. WHERE FIXTURES REQUIRE REMOTE TRANSFORMERS OR BALLASTS, THE CONTRACTOR SHALL DETERMINE LOCATIONS AS REQUIRED FOR EVEN LOAD DISTRIBUTION, SERVICE ACCESS, AND VENTILATION.
12. THE CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL ENGINEER FOR EXACT LOCATIONS OF TIMERS AND/OR PHOTO CELLS, IF ANY.
13. (FOR COMMON AREA INTERIOR LUMINAIRES ONLY) THE CONTRACTOR SHALL VERIFY THE COMPATIBILITY OF DIMMING AND CONTROL MODULES WITH THE FIXTURE TYPES PRIOR TO INSTALLATION.
14. WHERE APPLICABLE, THE CONTRACTOR SHALL AIM AND ADJUST LIGHTING FIXTURES AS DIRECTED BY THE LIGHTING DESIGNER UPON COMPLETION OF THE INSTALLATION.

SPECIAL NOTE TO THE CONTRACTOR:

1. FIXTURE SUBMITTALS THAT DO NOT INCLUDE LAMP SPECIFICATIONS WILL BE CONSIDERED INCOMPLETE AND WILL NOT BE REVIEWED.

EXTERIOR & SITE LIGHTING CONTROL SYSTEM REQUIREMENTS

1. CONTRACTOR TO PROVIDE A FULLY OPERATIONAL LIGHTING CONTROL SYSTEM.
2. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH A LIGHTING CONTROLS VENDOR TO OBTAIN LIGHTING CONTROL SYSTEM PACKAGE COMPLETE WITH DEVICES, WIRING DIAGRAMS, ANNOTATED PLANS INDICATING WHICH DEVICE TO BE USED IN EACH LOCATION, CONNECTION REQUIREMENTS, SET UP INSTRUCTIONS, COMMISSIONING AND CHECK–OUT FOLLOWING COMPLETION. PROVIDE ALL LOW VOLTAGE WIRING AS REQUIRED FOR CONTROL DEVICE INTERCONNECTIONS.
3. INSTALLER QUALIFICATIONS: TECHNICIAN INSTALLING AND WIRING THE LIGHTING CONTROL SYSTEM SHALL HAVE INSTALLED THIS SAME SYSTEM AT LEAST ONCE PREVIOUSLY. TECHNICIAN SHALL HAVE RECEIVED TRAINING BY FACTORY REPRESENTATIVE ON THE SYSTEM BEING INSTALLED.
4. PROVIDE LIGHTING CONTROL SYSTEM TO PERFORM THE FUNCTIONS DESCRIBED BELOW:
 - 4.1. CONTROL EXTERIOR LIGHTING BASED ON ASTRONOMIC TIME–CLOCK SCHEDULING OR PHOTOCELL DETECTION.
5. DURING EMERGENCY CONDITIONS EMERGENCY LIGHTING CIRCUITS SHALL BYPASS ALL LIGHTING CONTROLS IN ORDER TO ENERGIZE ALL CONNECTED LUMINAIRES AT FULL CAPACITY. PROVIDE UL924 RELAYS AS REQUIRED TO BYPASS AREA CONTROLS.
6. CONTRACTOR SHALL VERIFY THE COMPATIBILITY OF CONTROL MODULES WITH FIXTURE TYPES PRIOR TO INSTALLATION.

REVISIONS		DATE	DESCRIPTION
NO.		12/31/24	PERMIT SET



DRAWN: AJS	DESIGNED: AJS	CHECKED: STEINKE M.	APPROVED: STEINKE M.
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PROJECT: EAST TOWN CROSSING
MULTIFAMILY DEVELOPMENT
PIONEER WAY & SHAW RD. PUYALLUP, WA

ROBISON
ENGINEERING, INC

19401 40TH AVE W, SUITE 302
LYNNWOOD, WA 98036
PHONE: 206-864-3343

DATE:
12-31-2024

SHEET TITLE:
LIGHTING NOTES &
SCHEDULE

SHEET NO.
E0.4



DRAWN: AJS
DESIGNED: AJS
CHECKED: STEINKE M.
APPROVED: STEINKE M.

PROJECT: **EAST TOWN CROSSING**
MULTIFAMILY DEVELOPMENT
PIONEER WAY & SHAW RD. PUYALLUP, WA

ROBISON
 ENGINEERING, INC.



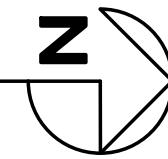
19401 40TH AVE W. SUITE 302
 LYNNWOOD, WA 98036
 PHONE: (206) 664-3343

DATE:
12-31-2024

SHEET TITLE:
TI SITE LIGHTING
AND POWER PLAN

SHEET NO.

E1.0



Shell Permit Only. Separate Tenant Improvement Permit will be required prior to Occupancy.



DRAWN: AJS
DESIGNED: AJS
CHECKED: STEINKE M.
APPROVED: STEINKE M.

PROJECT: **EAST TOWN CROSSING**
MULTIFAMILY DEVELOPMENT
PIONEER WAY & SHAW RD. PUYALLUP, WA

ROBISON
 ENGINEERING, INC.

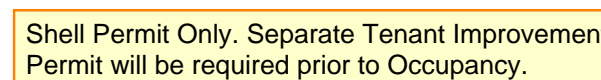
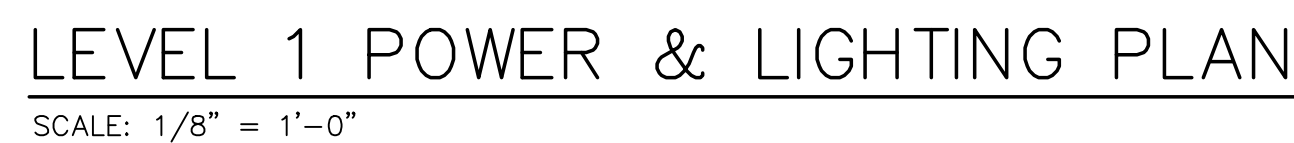
19401 40TH AVE W. SUITE 302
 LYNNWOOD, WA 98036
 PHONE: (206) 364-3343

SHEET TITLE:

**LEVEL 1
LIGHTING
AND POWER**

SHEET NO.

E3.0



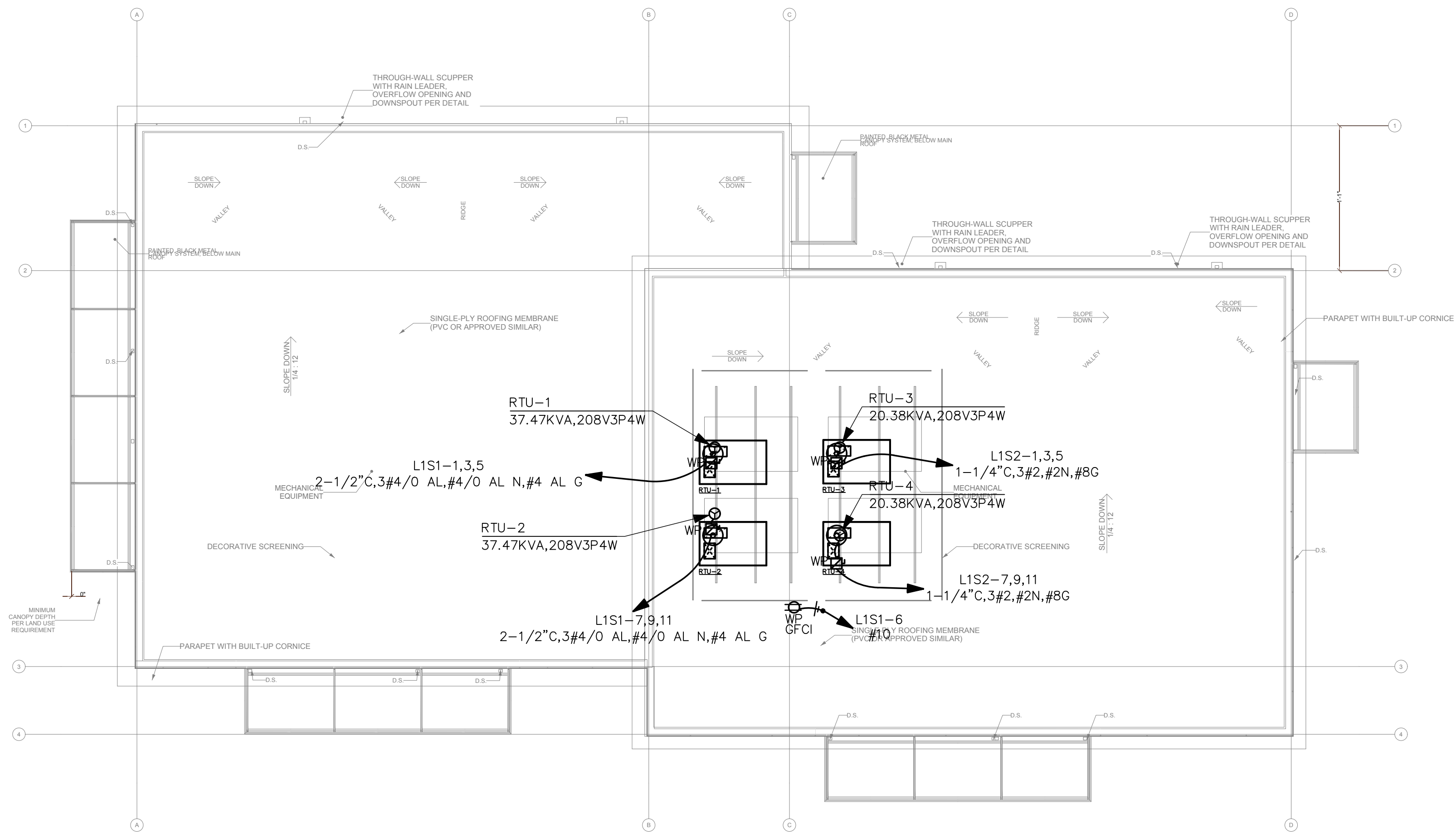
NO.	DATE	REVISIONS
	12/31/24	DESCRIPTION
		PERMIT SET



DRAWN:	AJS
DESIGNED:	AJS
CHECKED:	STEINKE M.
APPROVED:	STEINKE M.

PROJECT:	EAST TOWN CROSSING MULTIFAMILY DEVELOPMENT PIONEER WAY & SHAW RD. PUYALLUP, WA
DATE:	12-31-2024
SHEET TITLE:	LEVEL 2/ ROOF POWER AND LIGHTING
SHEET NO.	E3.1

DATE:	12-31-2024
SHEET TITLE:	LEVEL 2/ ROOF POWER AND LIGHTING
SHEET NO.	E3.1



ROOF POWER PLAN

SCALE: 1/8" = 1'-0"