PROJECT TEAM

PUYALLUP, WA

253-318-5711

TACOMA, WA

253-468-4117

CIVIL ENGINEER:

AHBL, INC.

TACOMA, WA

253-383-2422

TACOMA, WA

206-949-7866

TACOMA, WA 253-678-4173

c/o:TODD SAWIN

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c/o: CHON PIERUCCINI

LANDSCAPE ARCHITECT:

c/: ERIC J. WILLIAMS

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SPRINX FIRE PROTECTION, INC.

ROBISON ENGINEERING INC.

LYNNWOOD, WA 98036

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HOTWORX AUBURN WA

TENANT #2 FRANCHISE OWNER

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c/o: JON ROBISON

206-364-3343

FIRE SPRINKLERS

c/o: JOE FAULKNER 253-853-7780

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c/io: GREG HELLE

SYNTHESIS 9, LLC

c/o: BRETT LINDSAY

ASH DEVELOPMENT, LLC

greg.helle@absherco.com

blindsay@synthesis9.com

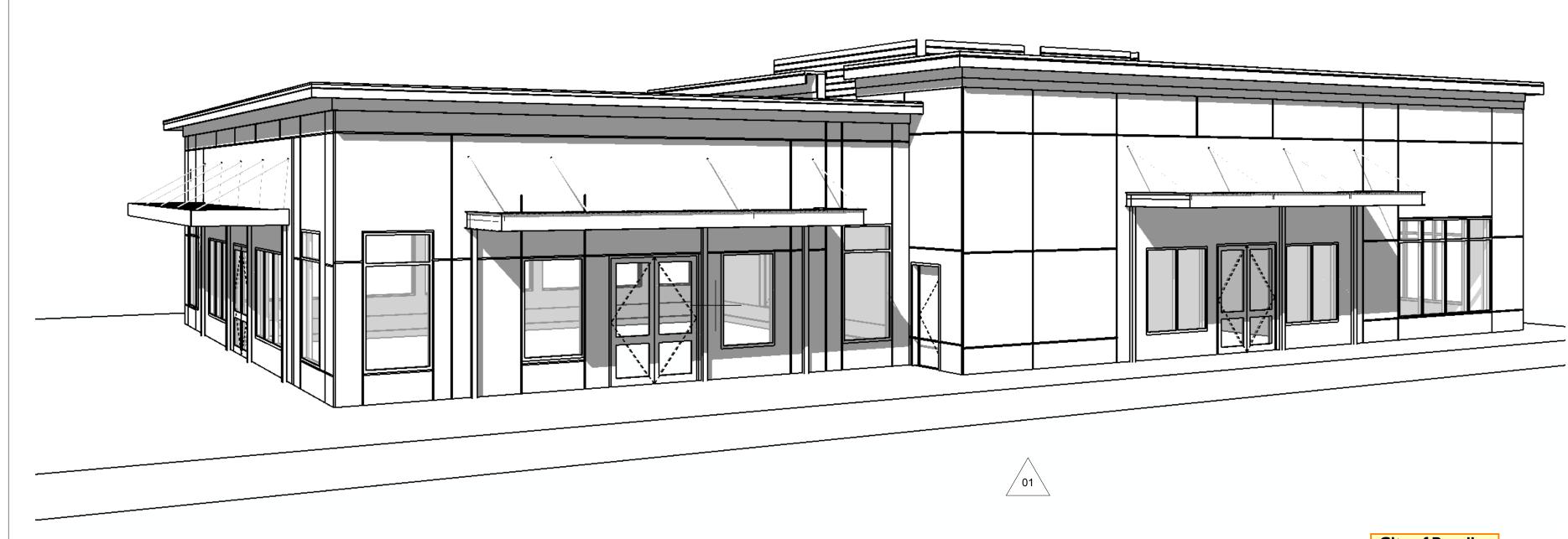
OWNER:

DRAWN BY: CHECKED BY:

PROJECT#: 2016-L1 SHEET:

EAST TOWN CROSSING

COMMERCIAL LOT 1



City of Puyallup Building **REVIEWED FOR COMPLIANCE** BSnowden 08/20/2025 7:55:02 AM

The approved construction plans, documents, and all engineering must be posted on the job at all inspections in a visible and readily accessible location.

Full sized legible color plans are required to be provided by the permitee on site for inspection.

Approval of submitted plans is not an approval of omissions of versights by this office or non compliance with any applicable egulations of local government. The contractor is responsible for making sure that the building complies with all applicable codes and regulations of the local government.

GENERAL PROJECT NOTES:

- 1. THE CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH THE CONTENT OF THESE DRAWINGS PRIOR TO PROCEEDING WITH THE WORK. DO NOT SCALE THE DRAWINGS.
- 2. 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.
- 5. 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.
- 6. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE (IBC).
- 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 ABD 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.
- 9. 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.
- 10. SAFEGUARDS DURING CONSTRUCTION SHALL COMPLY WITH CHAPTER 33 OF THE INTERNATIONAL BUILDING CODE.

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ADDITIONAL DOCUMENTS

WSEC C407 ENERGY REPORT PRE-MANUFACTURED ROOF TRUSS LAYOUT PRE-MANUFACTURED ROOF TRUSS CALCULATIONS

ENERGY COMPLIANCE FORMS

SEPARATE SUBMITTALS

FIRE SPRINKLER FIRE ALARM SYSTEM

ROOM I.D. SYMBOL

WALL TYPE SYMBOL

ROOM — ROOM NAME

100 ——ROOM NUMBER

1A ——WALL TYPE NO.

EXTERIOR WINDOW TYPE SYMBOL

/#> ——WINDOW TYPE NUMBER

REFER TO SHEET A1.0

PROJECT SCOPE

THE OVERALL ARCHITECTURAL SCOPE OF THIS PROJECT IS CONSTRUCT ONE COMMERCIAL SHELL BUILDING WITH 3 FUTURE

REFER TO THE FOLLOWING APPLICATION NUMBER:

TENANTS AND RELATED SITE DEVELOPMENT.

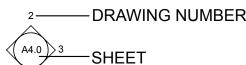
SITE DEVELOPMENT: PRCCP20230970

SYMBOL LEGEND

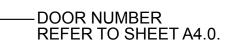
DETAIL SYMBOL — DETAIL NO. OR LETTER \ A2.0 / SHEET

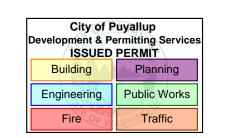
SECTION SYMBOL DETAIL NO. OR LETTER -SHEET

INTERIOR ELEVATION SYMBOL



DOOR I.D. SYMBOL





VICINITY MAP (NOT TO SCALE)



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

REVISIONS

2

REVISIONS

TITLE: COVER SHEET

ENCY AG1.

SSING T 1 LLUP WA

RO.

2 ___

PROJECT #:

AG1.2

PLUMBING FIXTURE REQUIREMENTS (01)

SUITE	OCCUPANCY	OCCUPANT LOAD	MALE WC	FEMALE WC	MALE LAV
1	A-2	100	1 PER 100		1 PER 100
		BASED ON ASSUMED NET AREA	1	1	1
2	В	14	1 per 25 for per 50 for t excee	first 50 and 1 he remainder eding 50	1 per 40 for first 80 and 1 per 80 for remainder exceeding 80
		14	1	1	1

PLUMBING FIXTURE SUMMARY

2902.5.1 Drinking fountain number. Occupant loads over 30 shall have one drinking fountain for the first 150 occupants, then one per each additional 500 occupants. ** NONE REQUIRED.

EXCEPTION: A drinking fountain need not be provided in a drinking or dining establishment.

2902.2 Separate facilities. Where plumbing fixtures are required, separate facilities shall be provided for each sex.

EXCEPTIONS: 1. Separate facilities shall not be required for dwelling units and sleeping units. 2. Separate facilities shall not be required in structures or tenant spaces with a total occupant load, including both employees and customers, of 15 or less.

3. Separate facilities shall not be required in mercantile occupancies in which the maximum occupant load is 100 or less.

4. Separate facilities shall not be required in spaces primarily used for drinking or dining with a total occupant load, including both employees and customers, of 30 or fewer.

5. Separate facilities shall not be required when gender-neutral facilities are provided in accordance with Section 2902.2.2.

2902.2.2 Gender-neutral facilities. Gender-neutral toilet facilities, when provided, shall be in accordance with the following:

1. There is no reduction in the number of fixtures required to be provided for male and female in the type of occupancy and in the minimum number shown in Table 2902.1.

2. Gender-neutral multiuser toilet rooms shall have water closets and urinals located in toilet compartments in accordance with ICC A117.1.

3. Gender-neutral multiuser toilet room water closet and urinal compartments shall have full-height walls and a door enclosing the fixture to ensure privacy.

4. Gender-neutral toilet room water closet and urinal compartment doors shall be securable from

within the compartment. 5. Gender-neutral toilet rooms provided for the use of multiple occupants, the egress door from the room shall not be lockable from the inside of the room.

6. Compartments shall not be required in a single-occupant toilet room with a lockable door.

W.S.E.C. BUILDING ENVELOPE SUMMARY

ZONE 4C - MARINE PATH TOTAL BUILDING PERFORMANCE

**REFER TO BUILDING ENERGY MODEL IN SEPARATE DOCUMENT

ROOFS - ATTIC AND OTHER R-VALUE = 30 FENESTRATION U-FACTOR = PER A4.0 FENESTRATION SHGC PER A4.0 U-FACTOR = N/A SKYLIGHTS WOOD FRAMED WALLS R-VALUE = 21 INT MASS WALL R-VALUE **FLOOR** R-VALUE: 30

APPLICABLE 2021 WSEC BUILDING ENVELOPE NOTES:

AN IDENTIFICATION MARK SHALL BE APPLIED TO ALL INSULATION MATERIALS PER

ALL FENESTRATION PRODUCTS SHALL BE LABELED WITH RATED U-FACTOR,

PROJECT CLOSE OUT DOCUMENTATION IS REQUIRED INCLUDING APPLICABLE

SLAB, R-VALUE & DEPTH

10, 2-FT

SHGC, VT, LEAKAGE RATING PER C303.1.3 AND C402.4.3.

CALCULATIONS, WSEC ENVELOPE COMPLIANCE REPORTS, AND FENESTRATION NFRC RATING CERTIFICATES PER C103.6.3.

T.I. #2 OCCUPANT LOAD FUNCTION OF SPACE: EXERCISE OCCUPANT LOAD FACTOR: 50 GROSS OCCUPANT LOAD: 2000/50 = 40 TRAVEL DISTANCE = 90'-3"-TENANT #2 -TRAVEL DISTANCE = 74'-8" TRAVEL DISTANCE = 74'-0" TENANT #1 -TRAVEL DISTANCE = 87'-0" T.I. #1 OCCUPANT LOAD FUNCTION OF SPACE: N.Y.D. OCCUPANT LOAD FACTOR: N.Y.D. OCCUPANT LOAD: = N.Y.D.

BUILDING SUMMARY

OCCUPANCY:

TENANT #1: A2: ASSEMBLY OPTION (NYD) TENANT #1: M: MERCANTILE OPTION (NYD)

TENANT #2: B: OFFICE (EXERCISE WITH LESS THAN 50 OCCUPANTS)

TYPE OF CONSTRUCTION: VB SEPARATED OCCUPANCIES: NO FIRE SPRINKLERS: YES, PER NFPA 13 FIRE ALARM SYSTEM AND SMOKE ALARM: YES **ELEVATOR**: NO **NUMBER OF TENANT SPACES: 2**

'A2' OCCUPANCY (TENANT #1 OPTION - NYD) BASE ALLOWABLE BUILDING AREAS, HEIGHT AND STORIES: ('A2' OCCUPANCY MOST RESTRICTIVE)

ALLOWABLE AREA PER FLOOR: 24,000 sq ft ALLOWABLE MAXIMUM HEIGHT: 60 ft ALLOWABLE STORIES: 2

'M' OCCUPANCY (TENANT #1 OPTION - NYD) BASE ALLOWABLE BUILDING AREAS. HEIGHT AND STORIES:

ALLOWABLE AREA PER FLOOR: 36,000 sq ft ALLOWABLE MAXIMUM HEIGHT: 60 ft

ALLOWABLE STORIES: 2

'B' OCCUPANCY (TENANT #2) BASE ALLOWABLE BUILDING AREAS, HEIGHT AND STORIES:

ALLOWABLE AREA PER FLOOR: 36,000 sq ft ALLOWABLE MAXIMUM HEIGHT: 60 ft

ALLOWABLE STORIES: 3

PROPOSED BUILDING AREAS, HEIGHT AND STORIES:

PROPOSED AREA PER FLOOR: LEVEL 1: 5103 sq ft PROPOSED HEIGHT: 22 ft PROPOSED STORIES: 1

CONDITIONED AREAS: TENANT 1: 2,914 sq ft 1,922 sq ft TENANT 2: RISER ROOM: 74 sq ft

GROSS AREAS: TENANT 1:

2,972 sq ft TENANT 2: 2,043 sq ft RISER ROOM: 88 sq ft TOTAL: 5,103 sq ft

OCCUPANT LOAD & EGRESS ANALYSIS

TENANT #1 (A2 - OPTION) USE: ASSEMBLY - UNCONCENTRATED TABLES & CHAIRS (ASSUMED) OCCUPANT LOAD FACTOR: 15 NET **OCCUPANT LOAD: 2914/15** = 194 NUMBER OF EXITS REQUIRED: 2

MAXIMUM EXIT ACCESS TRAVEL DISTANCE with SPRINKLERS: 250-ft MAXIMUM COMMON PATH OF TRAVEL: 75-ft

TENANT #1 (M - OPTION) **USE: MERCANTILE** OCCUPANT LOAD FACTOR: 60 GROSS **OCCUPANT LOAD: 2914/60 = 49** NUMBER OF EXITS REQUIRED: 2 MAXIMUM EXIT ACCESS TRAVEL DISTANCE with SPRINKLERS: 250-ft

MAXIMUM COMMON PATH OF TRAVEL: 75-ft

TENANT #2 **USE: EXERCISE** OCCUPANT LOAD FACTOR: 50 GROSS OCCUPANT LOAD: 12043/50 = 41 NUMBER OF EXITS REQUIRED: 1 MAXIMUM EXIT ACCESS TRAVEL DISTANCE with SPRINKLERS: 100-ft MAXIMUM COMMON PATH OF TRAVEL: 100-ft

FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS PER IBC (2021) TABLES 601 AND 602:

PRIMARY STRUCTURAL FRAME: **EXTERIOR BEARING WALLS: 0-HR** INTERIOR BEARING WALLS: 0-HR NONBEARING EXTERIOR WALL AND PARTITIONS: 0-HR

> NONBEARING INTERIOR WALL AND PARTITIONS: 0-HR FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS: 0-HR ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS: 0-HR

MINIMUM LOT WIDTH: 50 FT MINIMUM LOT DEPTH: 100 FT

MINIMUM LOT AREA: NONE

LAND USE SUMMARY

JURISDICTION: CITY OF PUYALLUP

CG - GENERAL COMMERCIAL

USE: RESTAURANT & RETAIL (PERMITTED)

SHAW-EAST PIONEER OVERLAY

P/N: 0420264021, LOT 1

ZONING DESIGNATION:

PARCEL AREA: 50,886 sq ft

THE NORTH

MINIMUM SETBACKS: 12 FT STREET, 0 FT SIDE, 0 FT REAR MAXIMUM SETBACK: 20 FT WITH PLAZA MAXIMUM HEIGHT: 50 FT (FOUR STORIES) MAXIMUM FLOOR AREA: F.A.R. 4.0 MAXIMUM LOT COVERAGE: 75%

SURROUNDING PARCELS: CG TO THE SOUTH AND EAST. CB

ACROSS SHAW TO THE WEST, CMX ACROSS PIONEER TO

VEHICLE PARKING ANALYSIS FOR BOTH COMMERCIAL LOTS

STALL DIMENSIONS: STANDARD: 9' x 20' 8' x 18' COMPACT: 8' x 17' 7' x 15'

REQUIRED: 1 STALL PER 300 sq ft GROSS RETAIL 1 STALL PER 100 sq ft GROSS RESTAURANT

> TENANT #1: 2972 sq ft/ 100 = 30 TENANT #2: 2043 sq ft/ 300 = 7

TOTAL REQUIRED: 37 ON-SITE VEHICLE STALLS PROVIDED: 37

COMPACT MIN.: 30% OF REQUIRED (37 x 0.3 = 11) COMPACT MAX.: 50% (37 x 0.5 = 19) COMPACT STALLS PROVIDED: 19

ACCESSIBLE STALLS REQ'D: 2 (1 MUST BE A VAN STALL) ACCESSIBLE STALLS PROVIDED: 2, WITH 1 VAN

ELECTRIC VEHICLE CHARGING INFRASTRUCTURE (PER SECTION 429 OF 2021 WABC)

REQUIREMENTS:

EV CHARGING: 10% = 4 (10% MUST BE ADA) EV READY = 10% = 4 (10% MUST BE ADA)

PROVIDED:

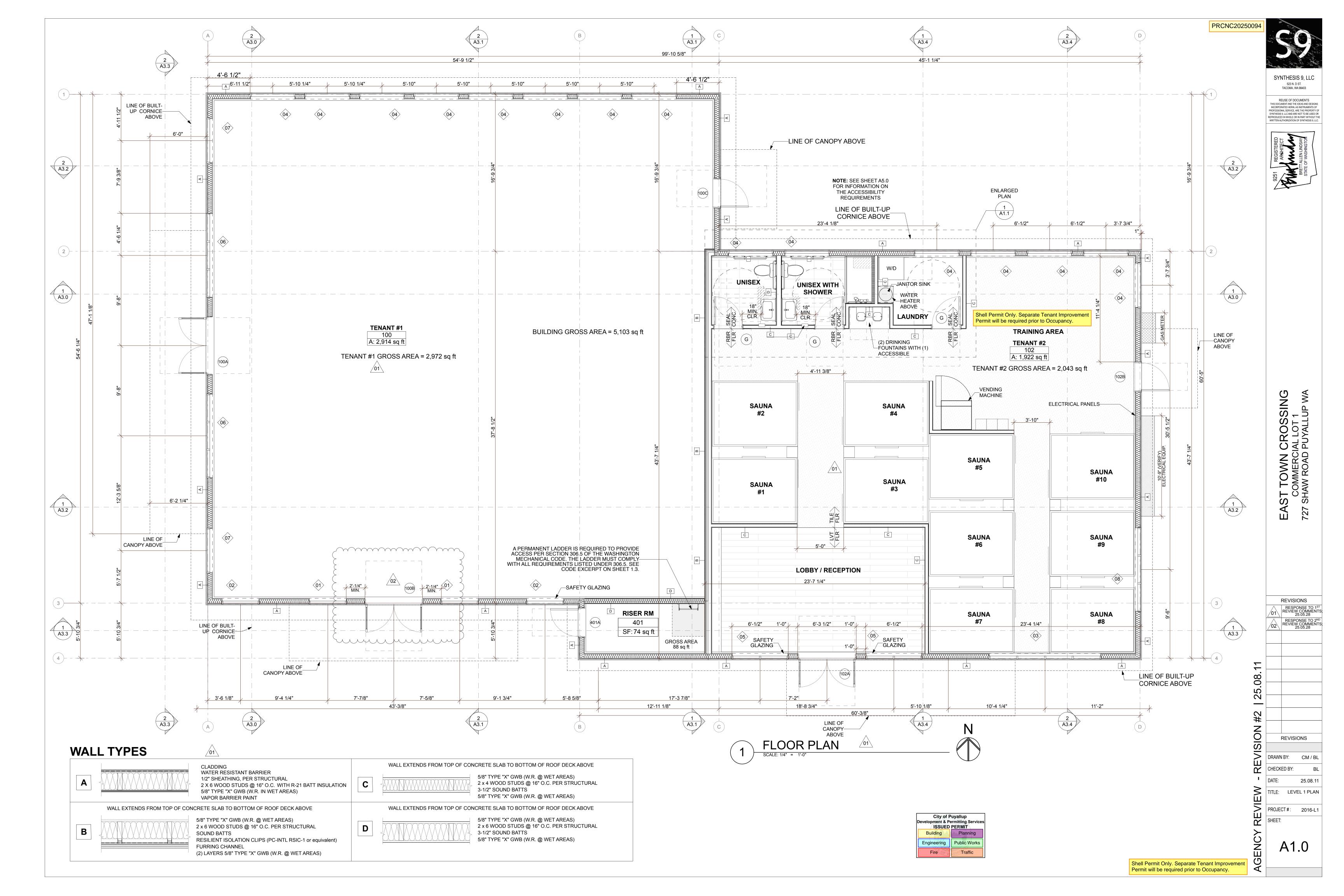
EV CHARGING: 4 (1 PER ADA) EV READY: 4 (1 PER ADA)

BICYCLE PARKING ANALYSIS SHORT-TERM BICYCLE PARKING: REQUIRED: 5 STALLS PROVIDED: 5

EV CAPABLE:

opment & Permitting Service ISSUED PERMIT Planning Building Engineering Public Works Fire Traffic

Permit will be required prior to Occupancy.



T.I. #2 - WATER HEATER WALL MOUNT PLATFORM



Product Description

DESCRIPTION

The HoldRite 50-SWHP-W is a wall mounted water heater platform designed to support water heaters up to 50 gallons or 600 pounds. This preassembled and galvanized steel platform features a diameter of 26.5 inches and includes necessary installation components.

- Durable construction of cold rolled steel
- Includes hanger rods and hardware for easy installation
- Compatible with standard one-inch PVC drain fittings

Product Highlights

This platform is suitable for both residential and commercial applications, providing stable support for water heaters while ensuring safety and ease of maintenance.

Product Information

Standard Information

- Brand: HoldRite
- MPN: 50-SWHP-W



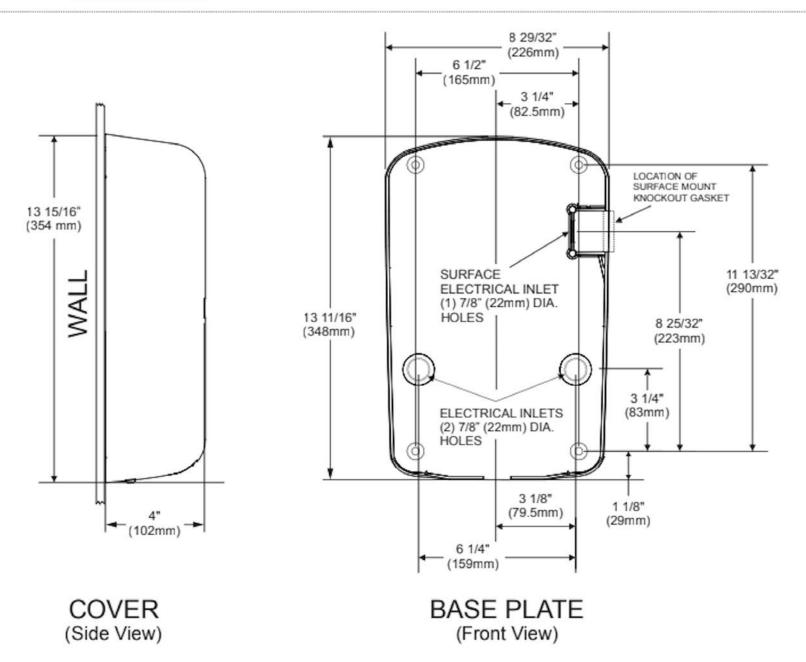
- Material: Cold Rolled Steel
- Finish: Galvanized
- Size: 26.5 inches width x 26.5 inches depth x 2.5 inches height
- Load Capacity: 50 gallons or 600 pounds
- Applicable Standard: BAA
- Type: Wall Mount, Suspended, Pre-Assembled, Square
- Used On Item: Water Heater

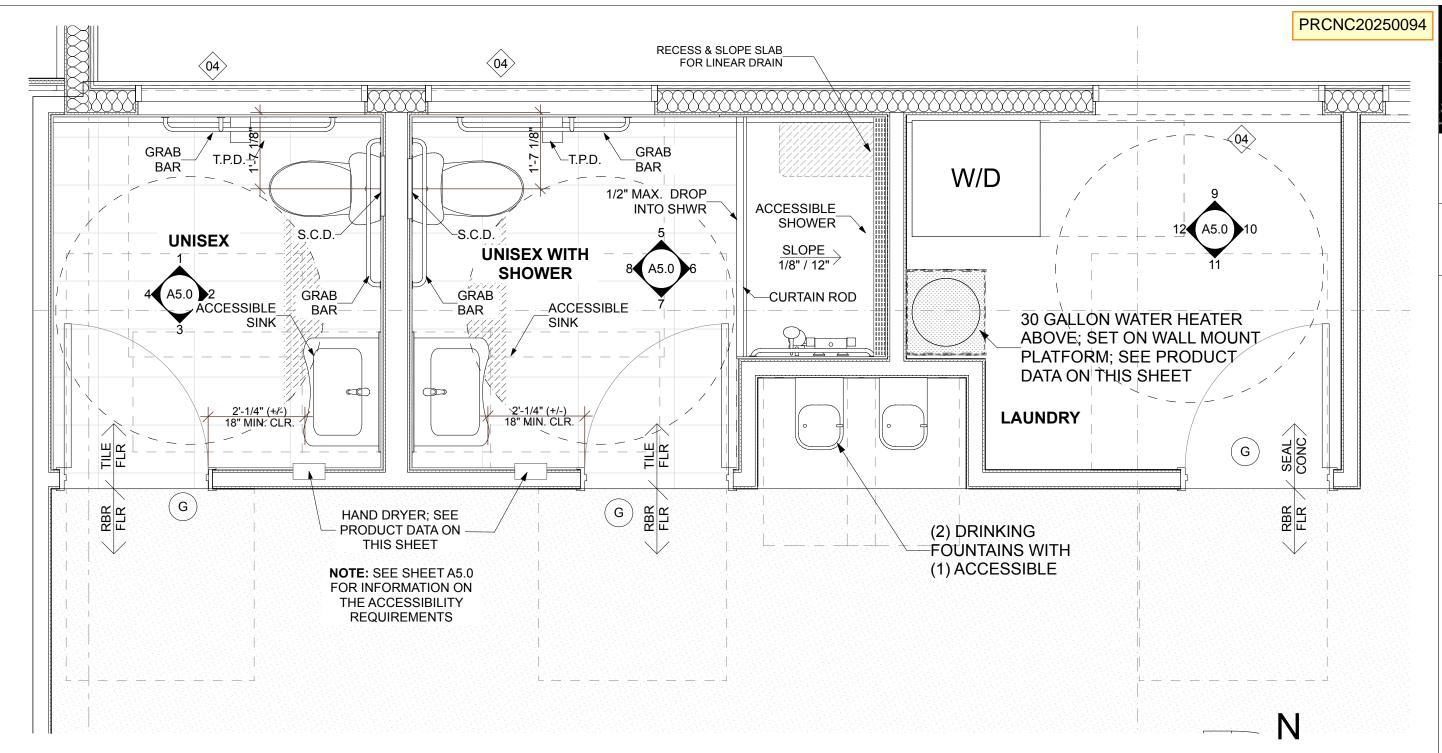
T.I. #2 - HAND DRYER

ThinAir® HAND DRYER

MODELS: TA - ABS SB -VOLTAGE (See Chart)







ENLARGED FLOOR PLAN

SCALE: 1/2" = 1'-0"



EAST TOWN CROSSING COMMERCIAL LOT 1 727 SHAW ROAD PUYALLUP WA

SYNTHESIS 9, LLC

523 N. D ST. TACOMA, WA 98403

REUSE OF DOCUMENTS

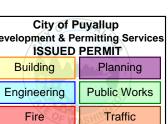
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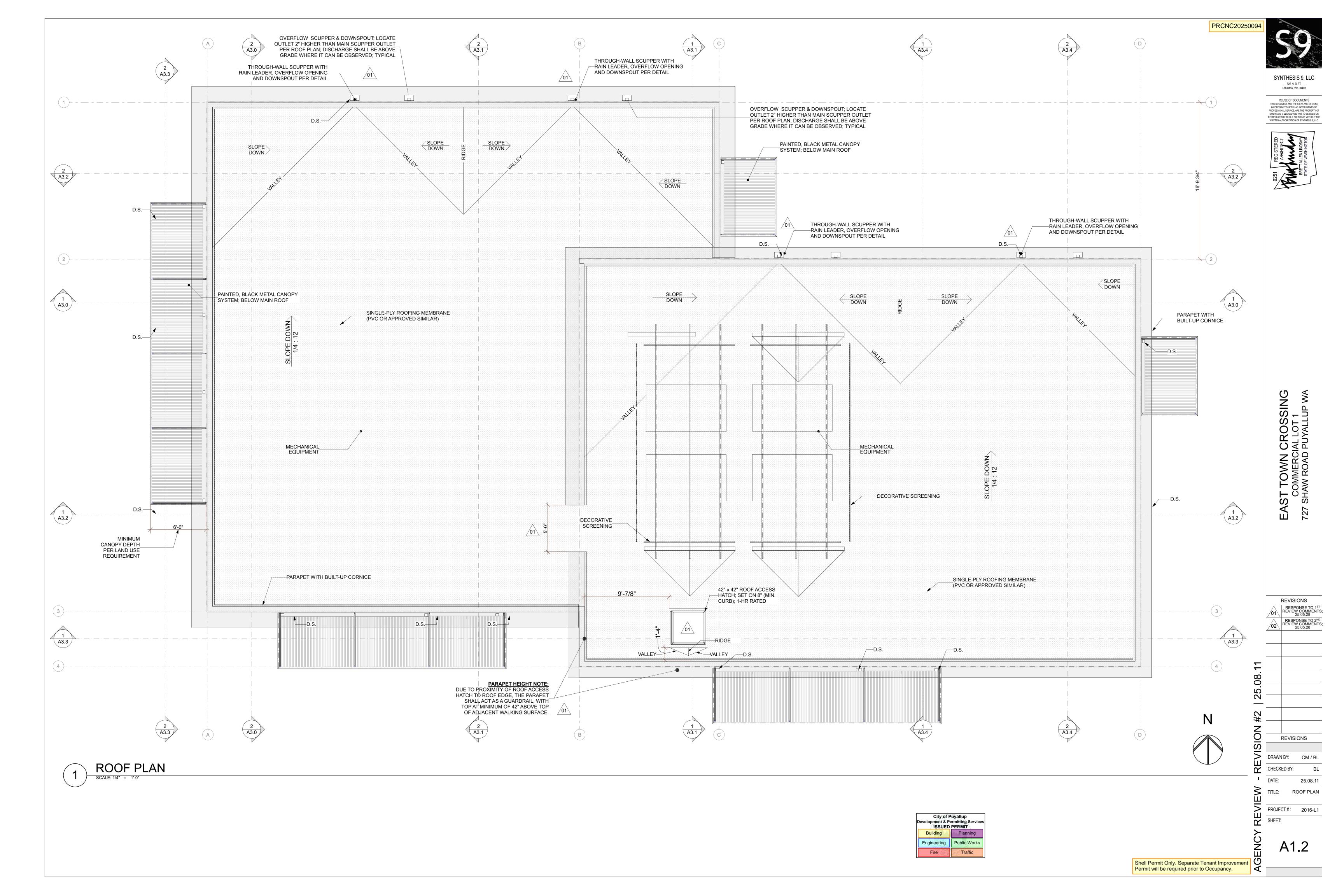
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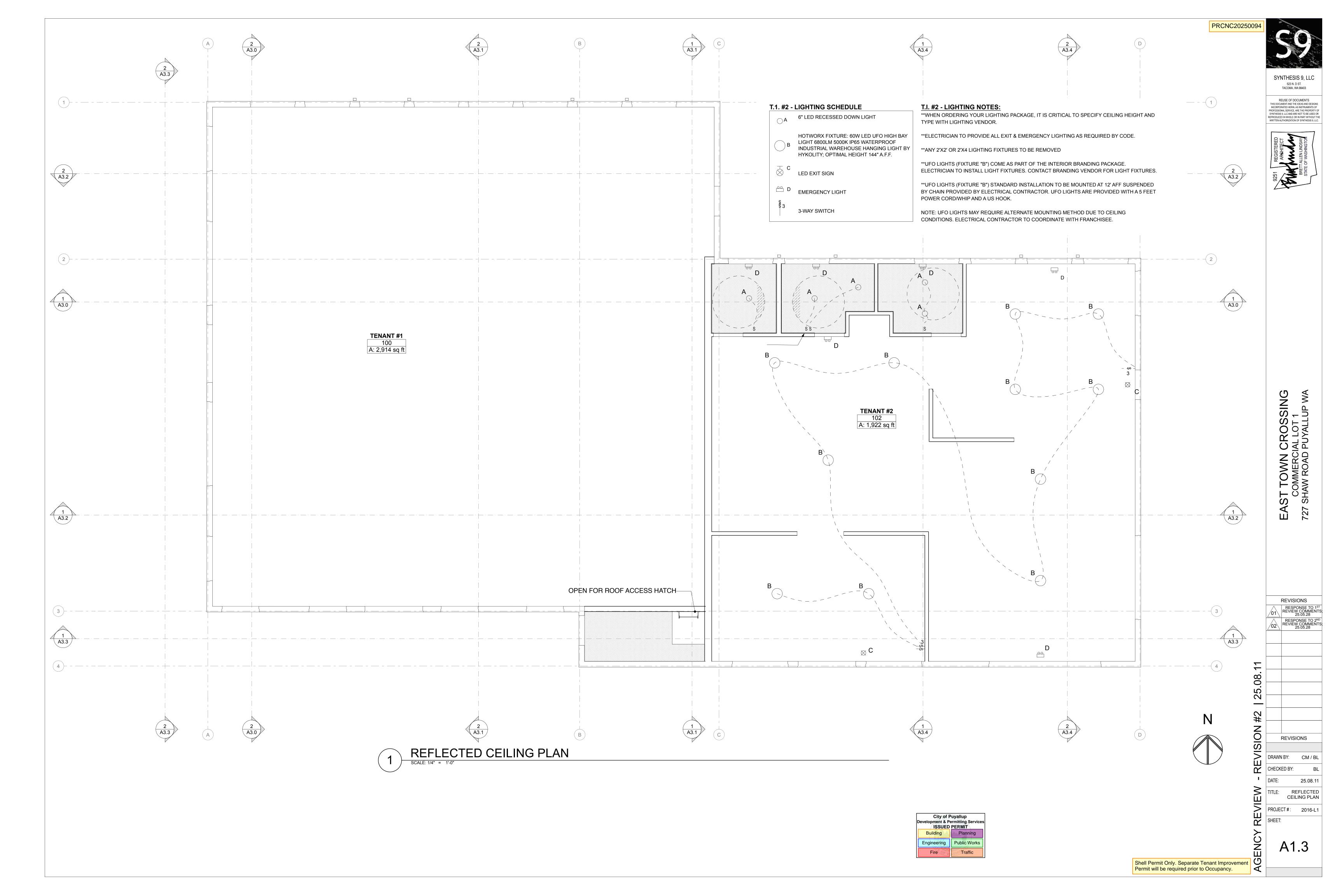
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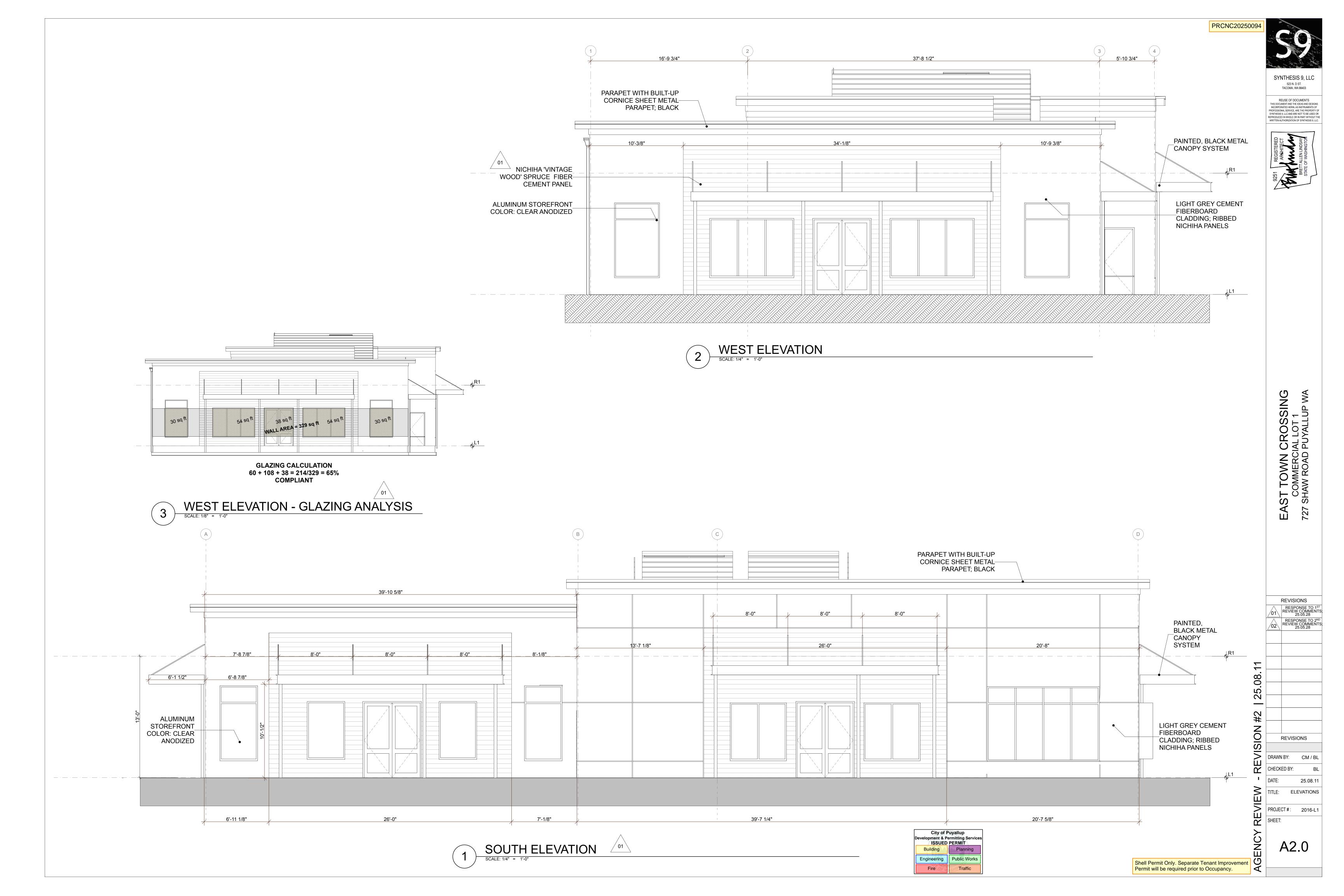
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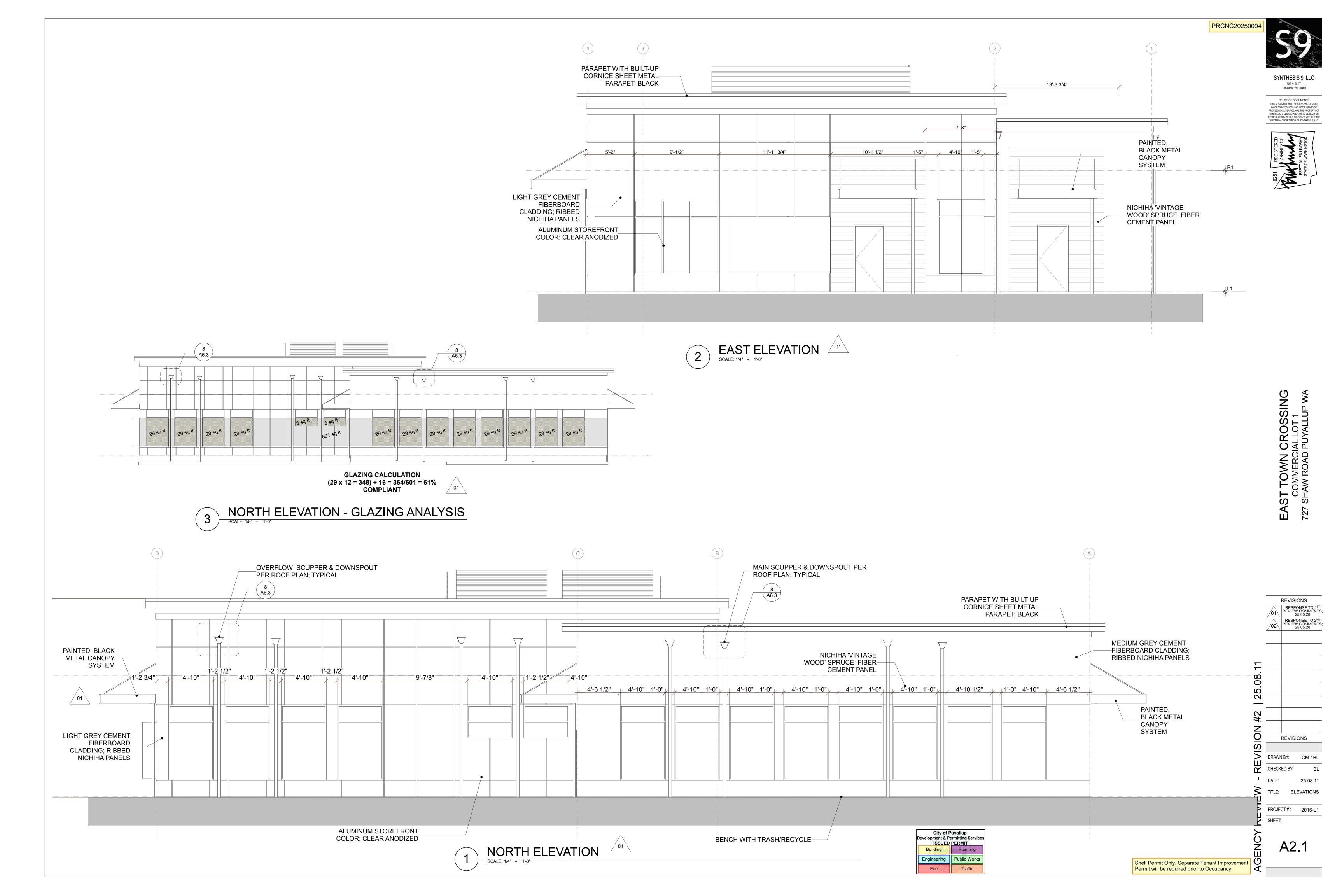
AGENCY A1.1

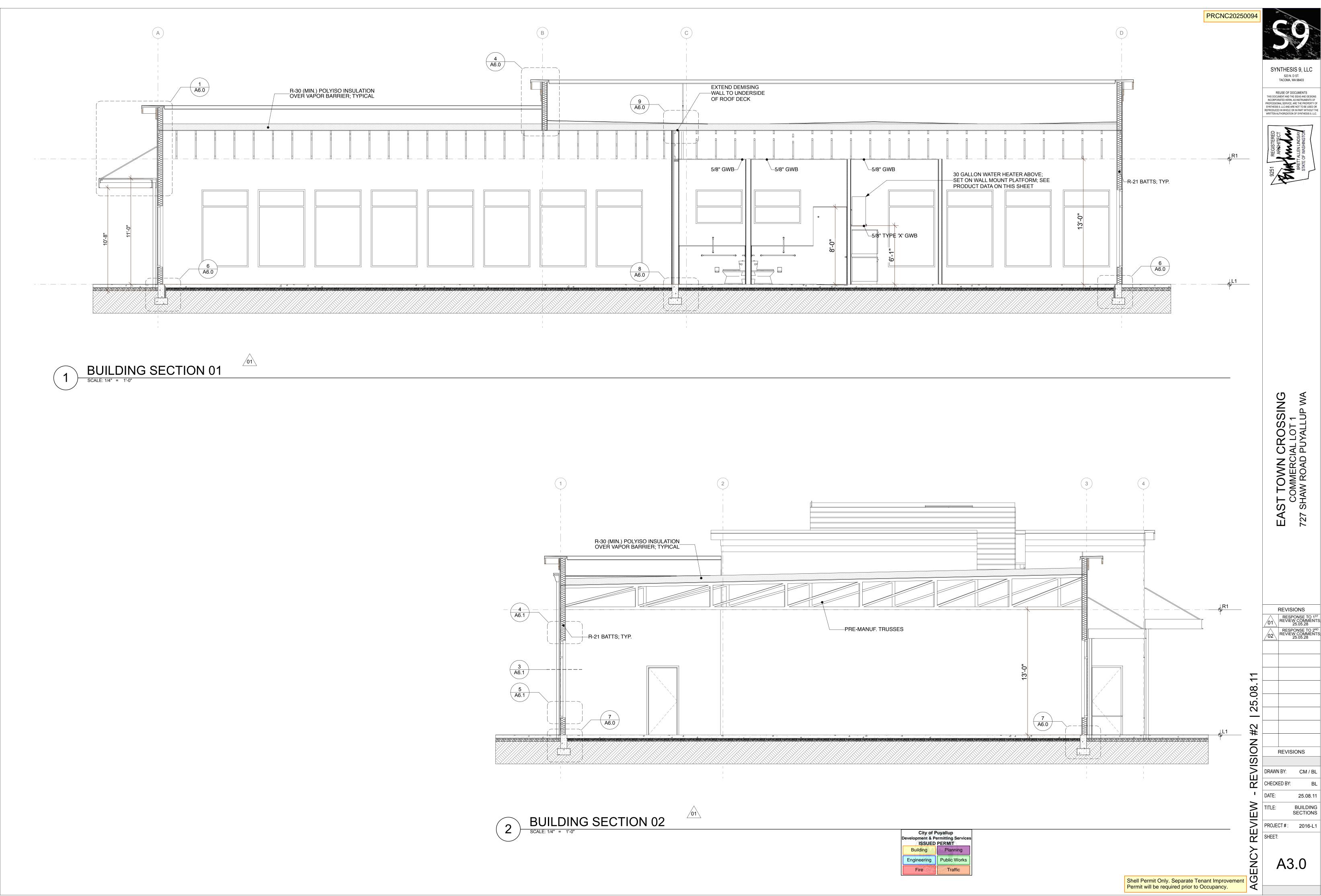




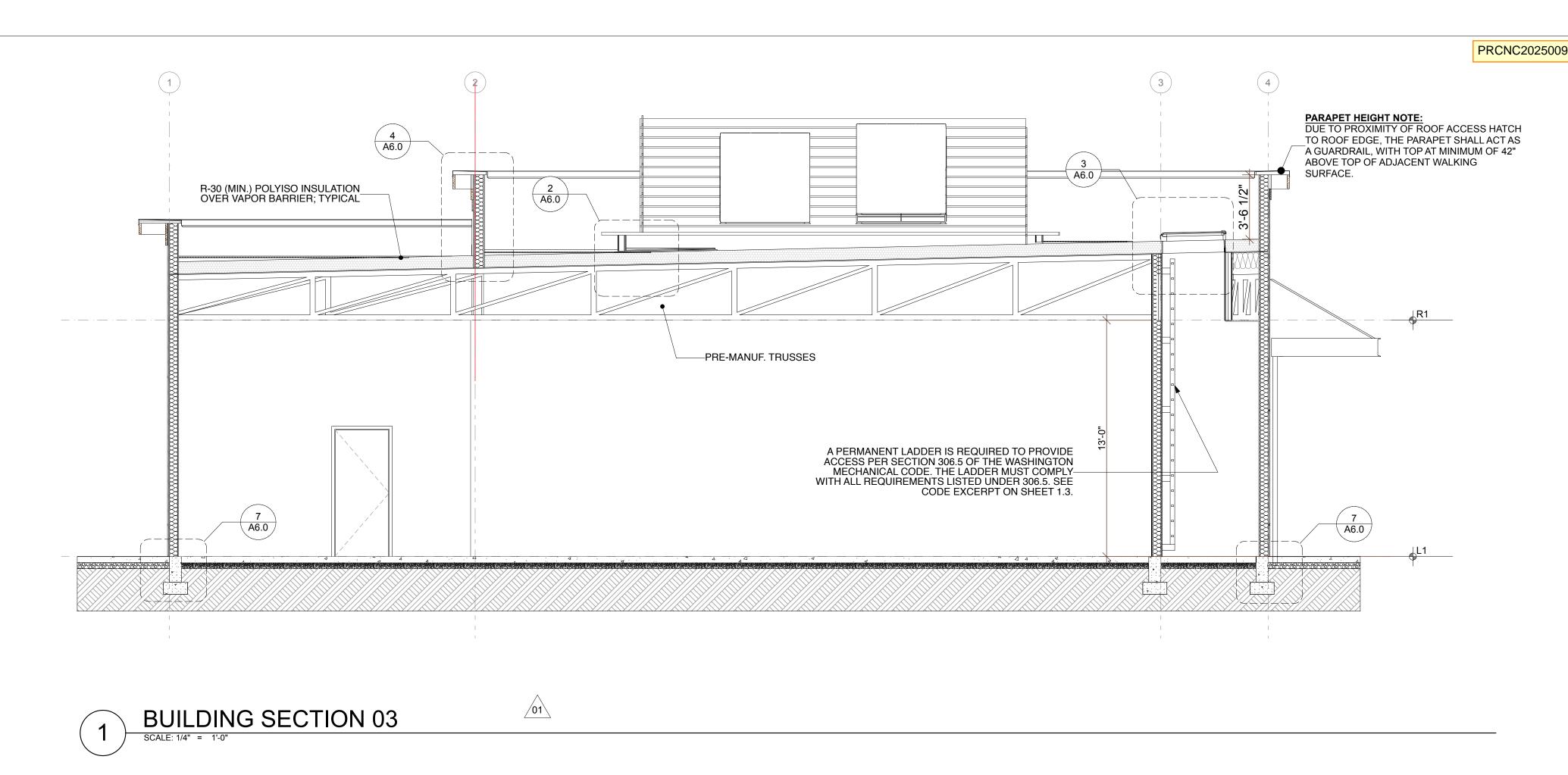


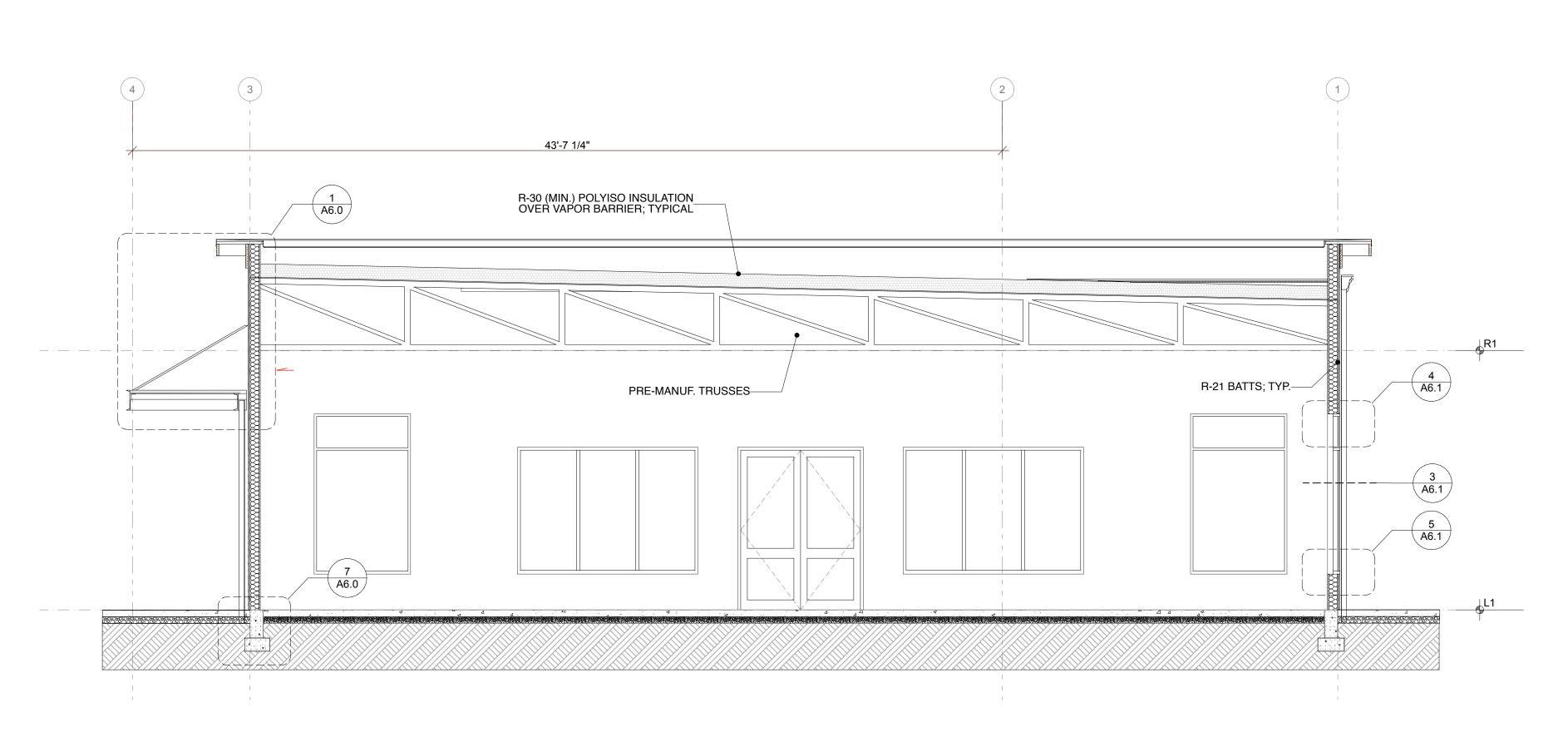






BUILDING SECTIONS





BUILDING SECTION 04

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

City of Puyallup elopment & Permitting Services ISSUED PERMIT Building Planning Engineering Public Works Traffic Fire

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

SYNTHESIS 9, LLC 523 N. D ST. TACOMA, WA 98403

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EAST TOWN CROSSING COMMERCIAL LOT 1 727 SHAW ROAD PUYALLUP WA

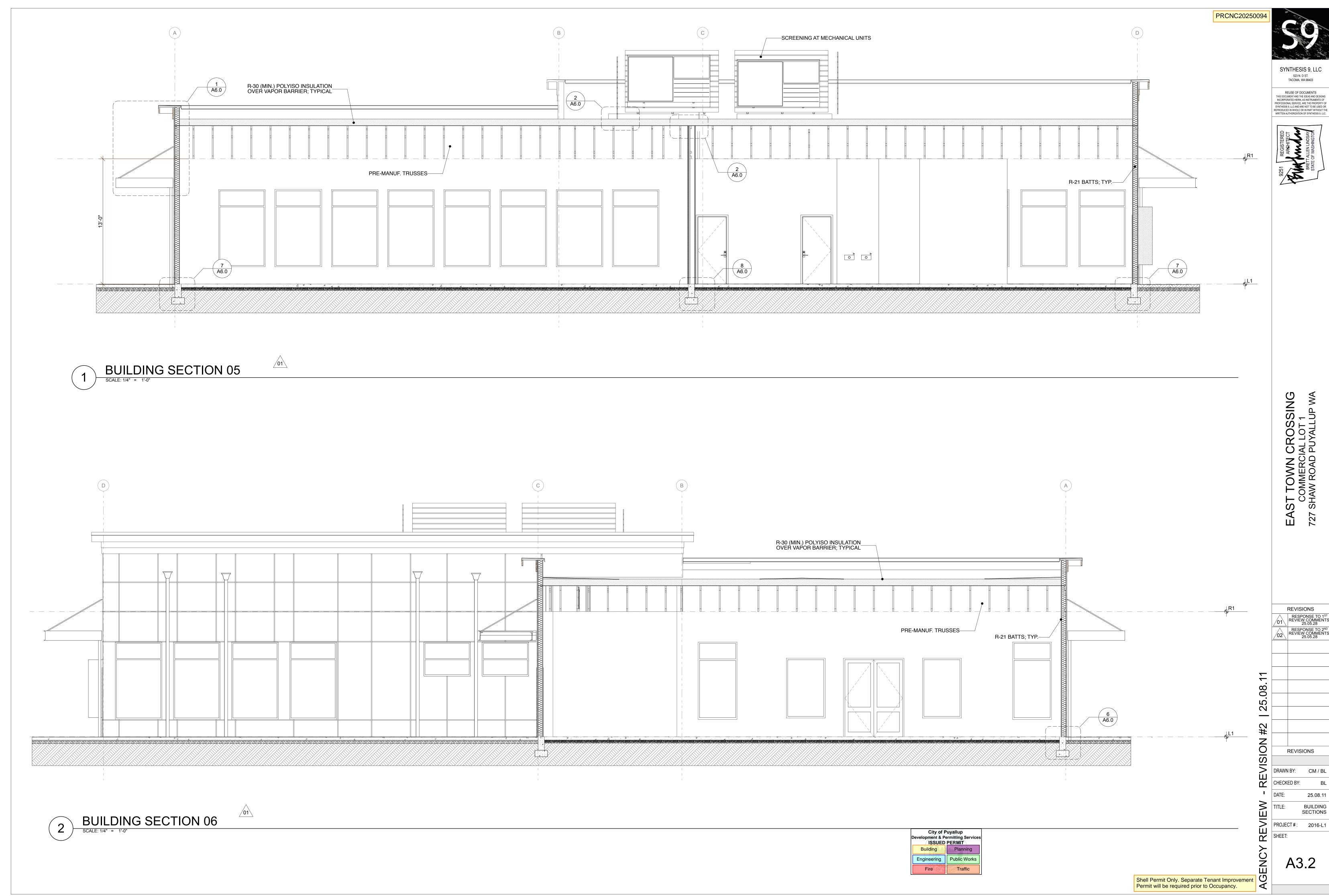
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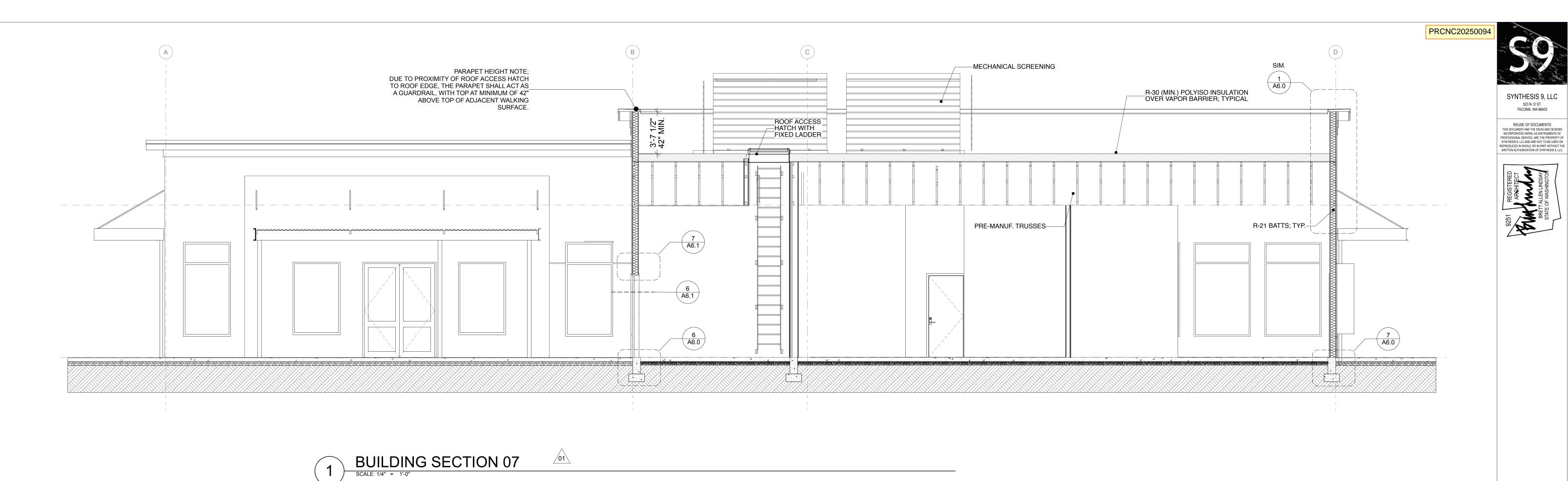
REVISION #2 REVISIONS DRAWN BY: CHECKED BY:

BUILDING SECTIONS

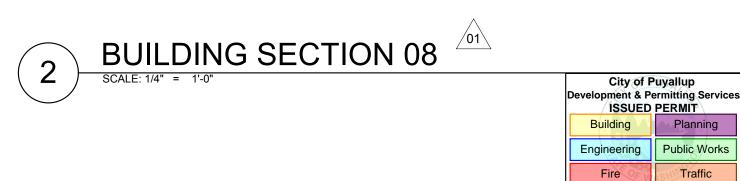
PROJECT#: 2016-L1



BUILDING SECTIONS







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

TITLE: BUILDING SECTIONS

PROJECT #: 2016-L1

SHEET:

A

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

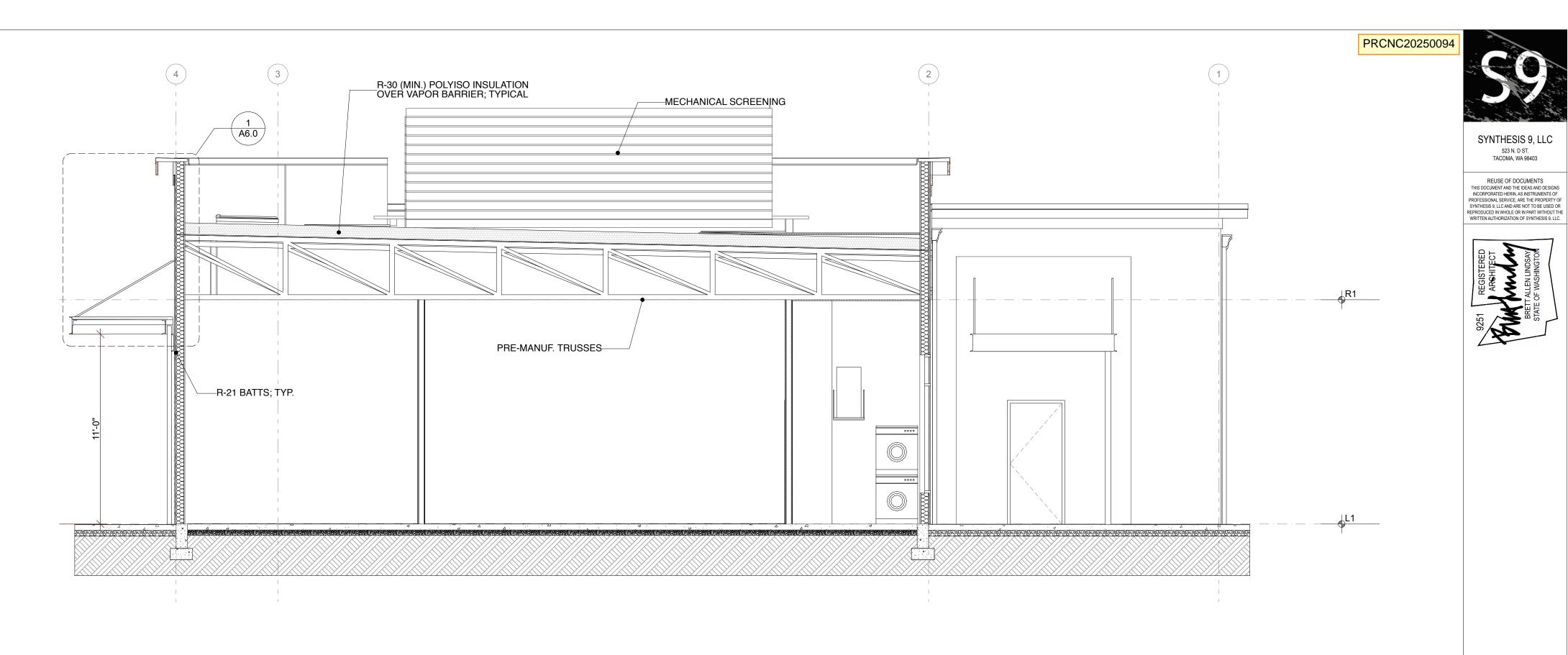
EAST TOWN CROSSING COMMERCIAL LOT 1 727 SHAW ROAD PUYALLUP WA

REVISIONS

| 25.08.11

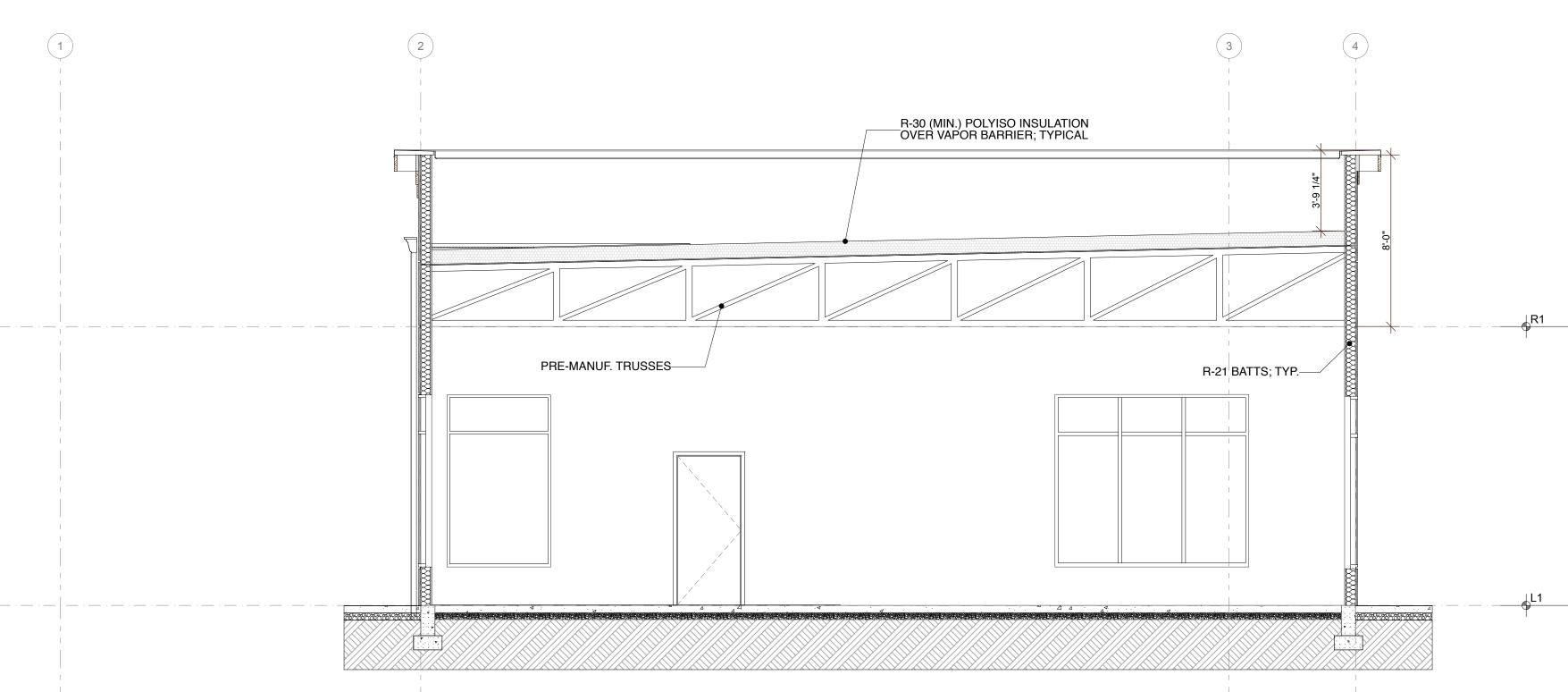
REVISIONS

CHECKED BY:



BUILDING SECTION 09

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



BUILDING SECTION 10

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

City of Puyallup elopment & Permitting Services ISSUED PERMIT Building Planning Engineering Public Works Traffic Fire

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

EAST TOWN CROSSING COMMERCIAL LOT 1 727 SHAW ROAD PUYALLUP WA

SYNTHESIS 9, LLC 523 N. D ST. TACOMA, WA 98403

REVISIONS

| 25.08.11

REVISIONS CHECKED BY: 25.08.11

BUILDING SECTIONS PROJECT #: 2016-L1

ST TOWN CROSSING COMMERCIAL LOT 1 SHAW ROAD PUYALLUP WA

REVISIONS

DOOR TYPES

01

4'-0"×6'-2"

2

0.30

0.38

WINDOW TYPES

ELEVATION

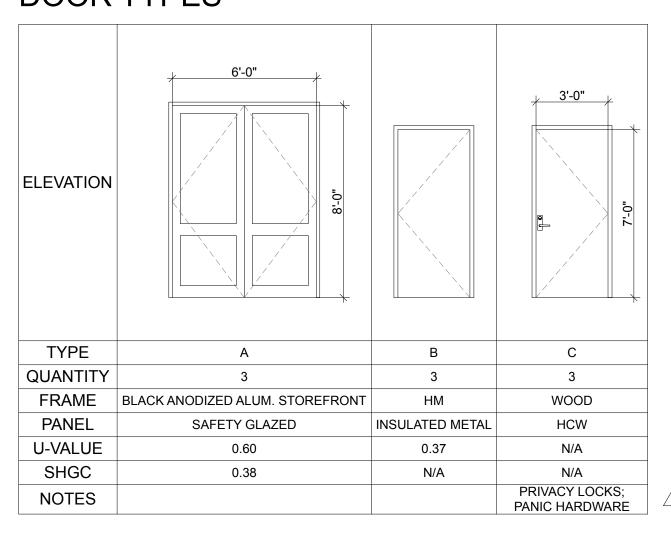
TYPE

SIZE (W x H) QUANTITY

U-VALUE

SHGC

NOTES



02

4'-0"×8'-0"

2

0.30

0.38

DOOR SCHEDULE

04

4'-10"×3'-6"

2

0.30

0.38

DOOR NUMBER	TYPE	ROOM	DOOR W x HT	NOTES
100A	А	SUITE 100	6'-0"×8'-0"	PANIC HARDWARE
100B	А	SUITE 100	6'-0"×8'-0"	PANIC HARDWARE
100C	В	SUITE 100	3'-0"×7'-0"	PANIC HARDWARE
102A	А	SUITE 102	6'-0"×8'-0"	PANIC HARDWARE
102B	В	SUITE 102	3'-0"×7'-0"	PANIC HARDWARE
401A	В	RISER ROOM	3'-0"×7'-0"	PANIC HARDWARE
G	С	BATHROOMS	3'-0"×7'-0"	PRIVACY LOCK; PANIC HARDWARE

05

6'-0"×6'-2"

2

0.30

0.38

SAFETY GLAZING

04

4'-10"×8'-0"

13

0.30

0.38

9'-0"

06

9'-0"×6'-3 3/4"

2

0.30

0.38

07

4'-10"×8'-0"

2

0.30

0.38

80

9'-0"×8'-0"

1

0.30

0.38

01

DOOR SCHEDULE NOTES:

DOOR OPERATIONS PER IBC 1010.2.10 - EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

DOOR HARDWARE PER IBC 1010.2.2 - 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 IBC 1010.2.3 - 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.

03

12'-0"×8'-0"

0.30

0.38

ACCESSIBLE THRESHOLDS PER ICC A117.1-2017 SECTION 303 - THRESHOLDS AT DOORWAYS SHALL BE 1/2" MAXIMUM IN HEIGHT.

DOOR CLOSERS PER ICC A117.1-2017 - 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 A117.1-2017 - 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 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 / OUSIDE 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.

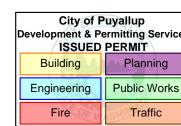
CLOSET LOCKSET - THE LATCHBOLT IS RETRACTED BY THE OUTSIDE AND THE INSIDE GRIP AND THE GRIP CANNOT BE LOCKED.

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 THAT 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

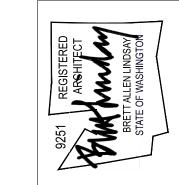


25.08.11

DOORS & WINDOWS

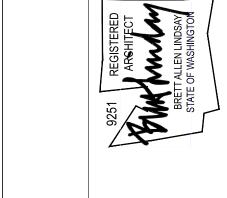
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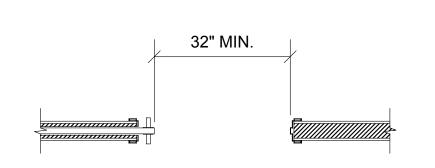


EAST TOWN CROSSING
COMMERCIAL LOT 1
727 SHAW ROAD PUYALLUP WA

REVISIONS



(A) HINGE DOOR



DOORWAYS SHALL HAVE A CLEAR OPENING WIDTH OF 32 INCHES MINIMUM. CLEAR

OPENING WIDTH OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN

MORE THAN 24 INCHES IN DEPTH AT DOORS AND DOORWAYS WITHOUT DOORS SHALL PROVIDE A CLEAR OPENING WIDTH OF 36 INCHES MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE CLEAR OPENING WIDTH LOWER THAN 34 INCHES ABOVE THE

FLOOR. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES AND 80

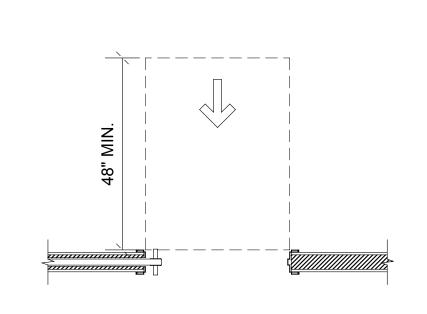
2. IN ALTERATIONS, A PROJECTION OF 5/8" MAXIMUM INTO THE REQUIRED CLEAR OPENING WIDTH SHALL BE PERMITTED FROM THE LATCH SIDE STOP.

1. DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES

INCHES ABOVE THE FLOOR SHALL NOT EXCEED 4 INCHES.

(B) SLIDING DOOR

CLEAR WIDTH OF OPENINGS

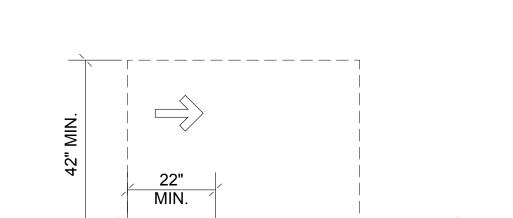


FRONT APPROACH, PULL SIDE

36" MIN.



42" MIN.

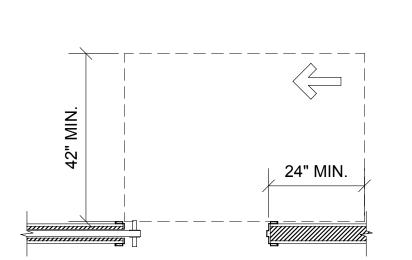


FRONT APPROACH, POCKET

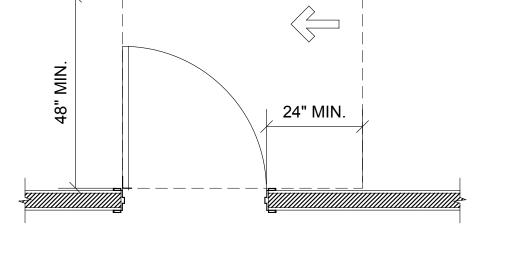
HINGE APPROACH, PULL SIDE







22" MIN. SEE ADDITIONAL REQUIREMENTS WHEN BOTH CLOSER & LATCH ARE PROVIDED PER FIGURE 404.2.3.2 (ON THIS SHEET) HINGE APPROACH, PUSH SIDE



REQUIREMENTS WHEN BOTH CLOSER & LATCH ARE PROVIDED PER FIGURE 404.2.3.2 (ON THIS SHEET)

LATCH APPROACH, PULL SIDE

PUSH SIDE, W/ CLOSER & LATCH

SEE ADDITIONAL

STOP OR LATCH APPROACH

TABLE 404.2.3.2—MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS

TYPE OF US	E	MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS						
Approach Direction	Door Side	Perpendicular to Doorway	Parallel to Doorway (beyond latch unless noted)					
From front	Pull	60 inches (1525 mm)	18 inches (455 mm)					
From front	Push	48 inches (1220 mm)	0 inches (0 mm) ³					
From hinge side	Pull	60 inches (1525 mm)	36 inches (915 mm)					
From hinge side	Pull	54 inches (1370 mm)	42 inches (1065 mm)					
From hinge side	Push	42 inches (1065 mm) ¹	22 inches (560 mm) ^{3 & 4}					
From latch side	Pull	48 inches (1220 mm) ²	24 inches (610 mm)					
From latch side	Push	42 inches (1065 mm) ²	24 inches (610 mm)					

¹Add 6 inches (150 mm) if closer and latch provided. ²Add 6 inches (150 mm) if closer provided. ³Add 12 inches (305 mm) beyond latch if closer and latch provided. ⁴Beyond hinge side.

City of Puyallup opment & Permitting Services ISSUED PERMIT Building Planning Engineering Public Works Fire

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

SEE ADDITIONAL

CLOSER & LATCH ARE

PROVIDED PER FIGURE

REQUIREMENTS WHEN BOTH

24" MIN.

ACCESSIBLE DOOR CLEARANCE

LATCH APPROACH, PUSH SIDE

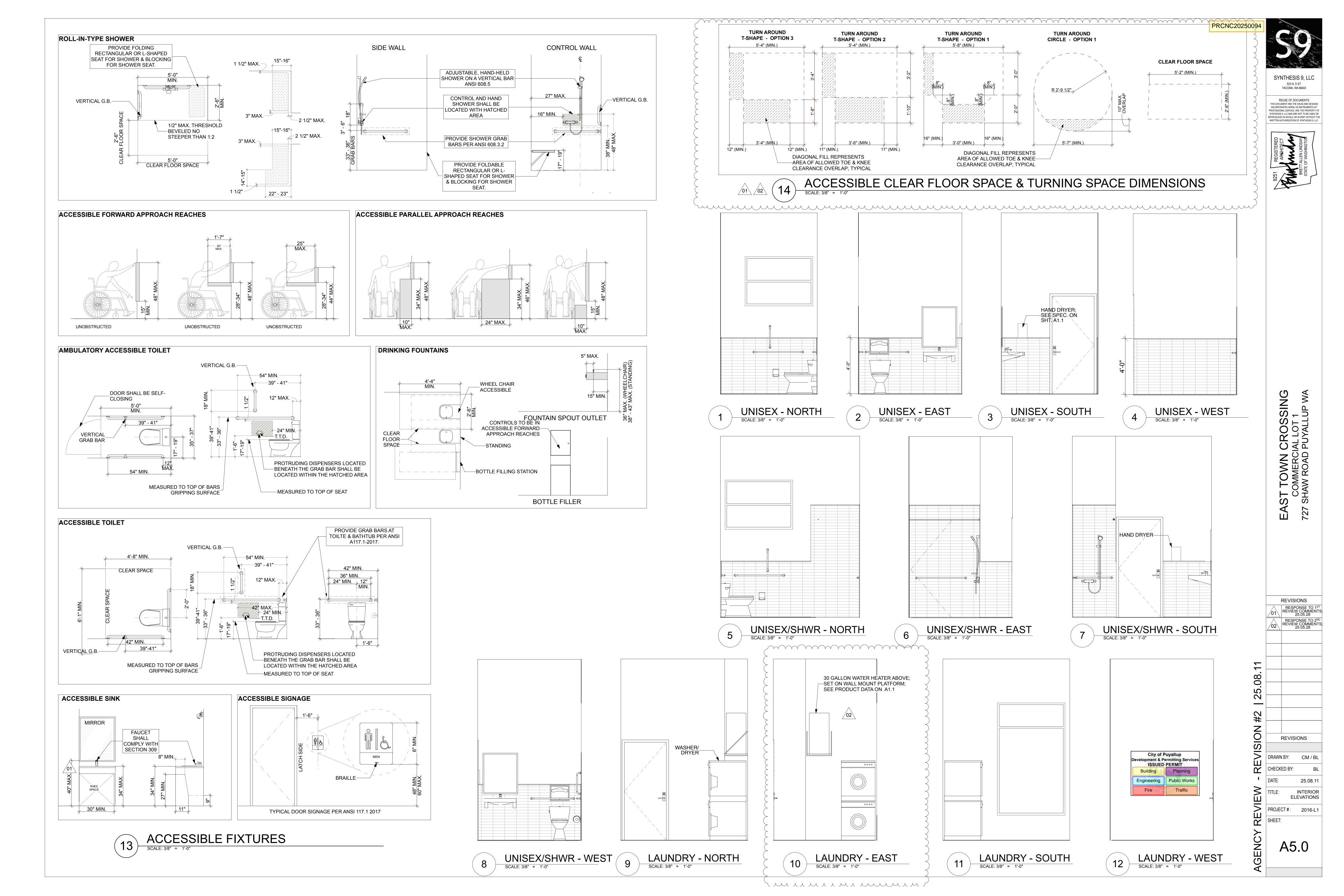
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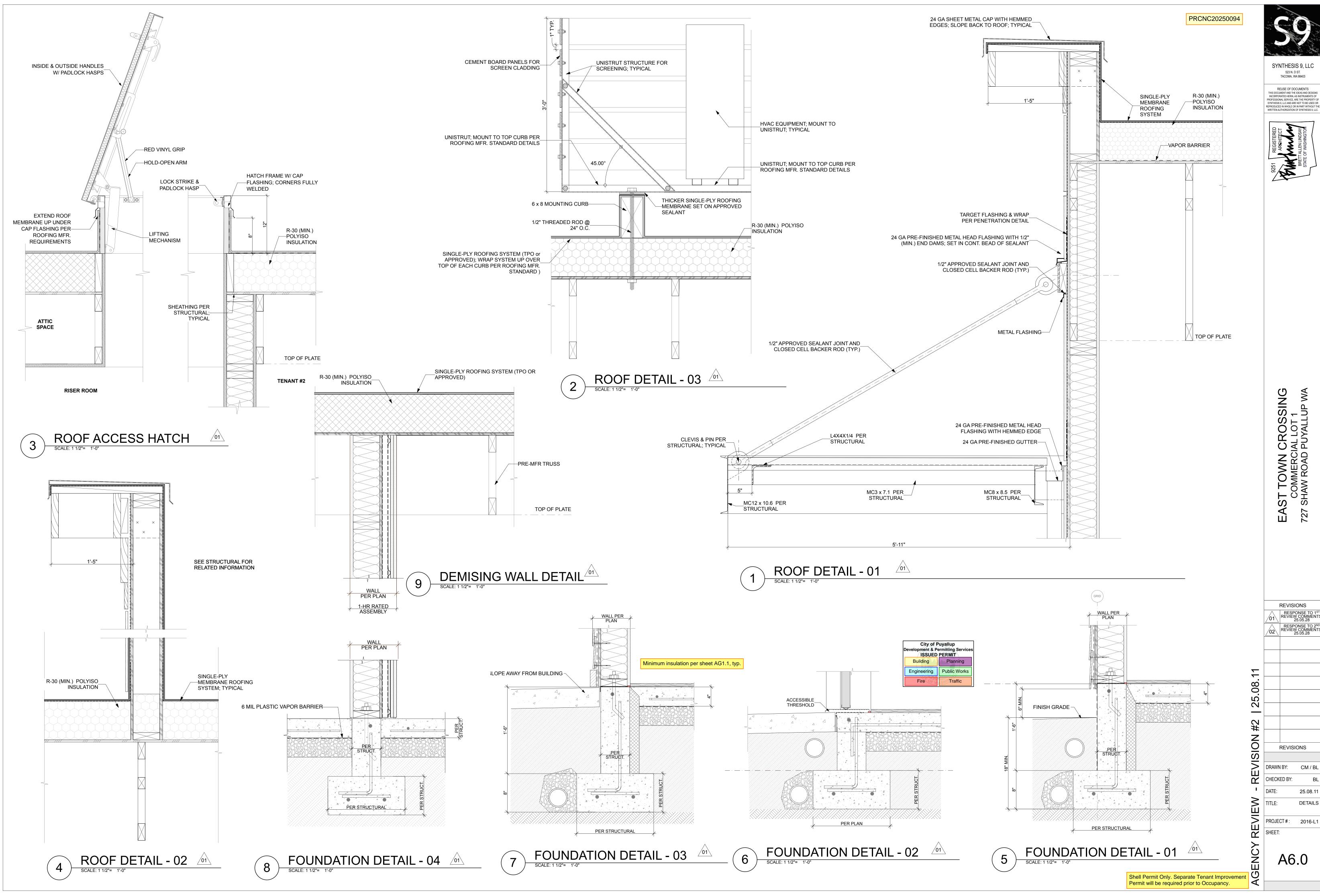
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A4.1

REVISIONS

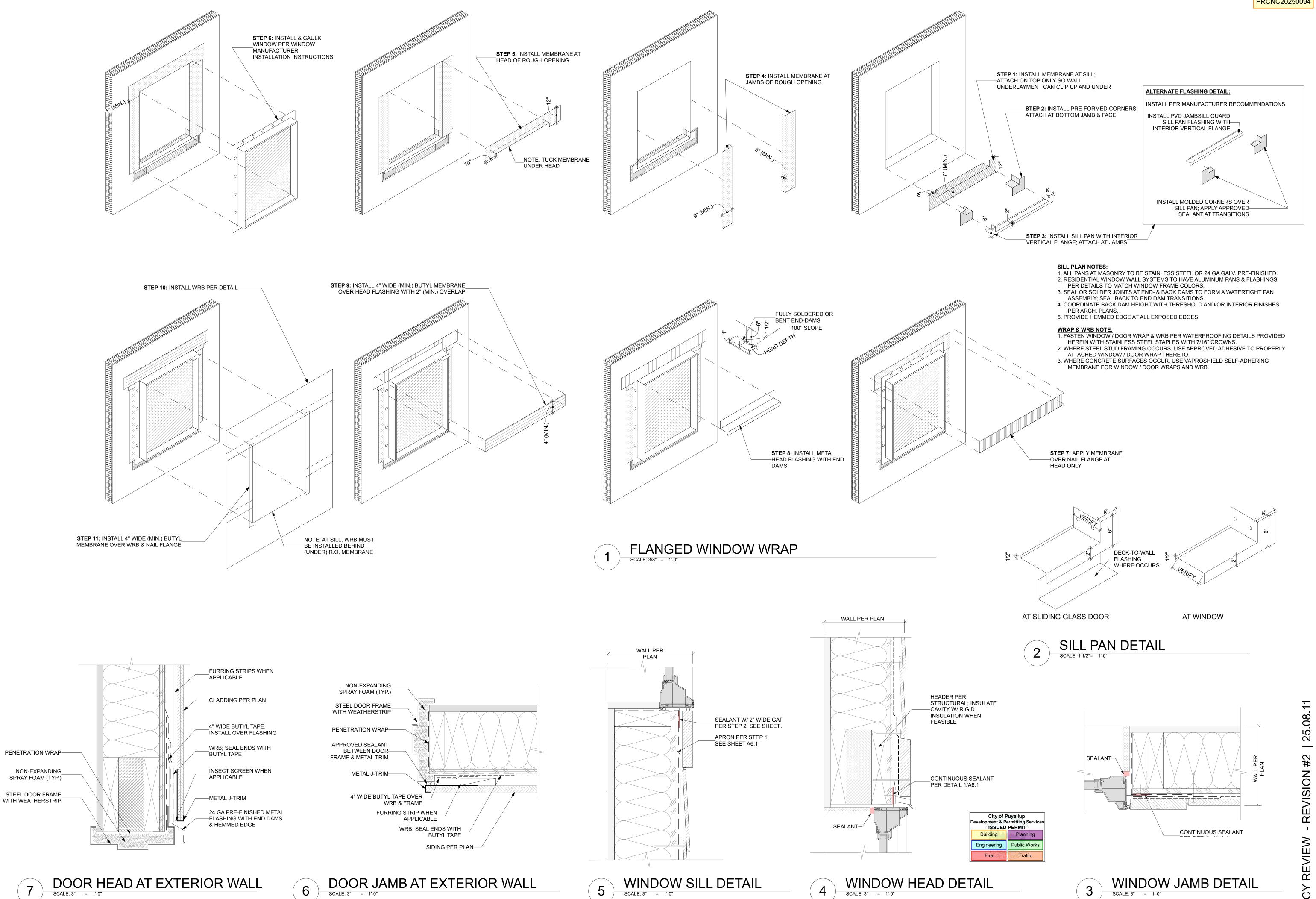
ACCESSIBLE





DETAILS

PROJECT#: 2016-L1

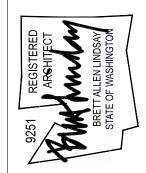


SCALE: 3" = 1'-0"

SYNTHESIS 9, LLC 523 N. D ST. TACOMA, WA 98403

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REVISIONS

REVISIONS

DRAWN BY: CM / BL

CHECKED BY: 25.08.11 DETAILS

PROJECT#: 2016-L1 SHEET:

A6.1

ENCY

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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

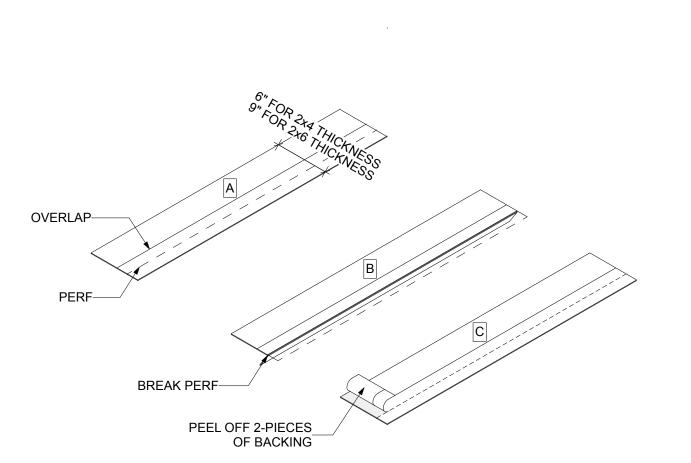
TOP OF THE APRON SHOULD BE SECURELY ATTACHED TO THE WALL AND THE BOTTOM OF THE APRON SHOULD BE LEFT UNSECURED SO IT CAN OVERLAP THE WRB WHICH WILL BE

INSTALLED AFTER THE DOOR.

STEP 2 A. CUT PIECE OF FLEX WRAP NF AT LEAST 12" LONGER THAN THE WIDTH OF THE SILL (S). B. FLEX WRAP NF HAS PERFORATED RELEASE PAPER TO HELP WITH THE FORMATION OF THE BACK DAM. TO ENSURE THAT THE PERFORATION TEARS CLEANLY, FOLD THE PERFORATION 180

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

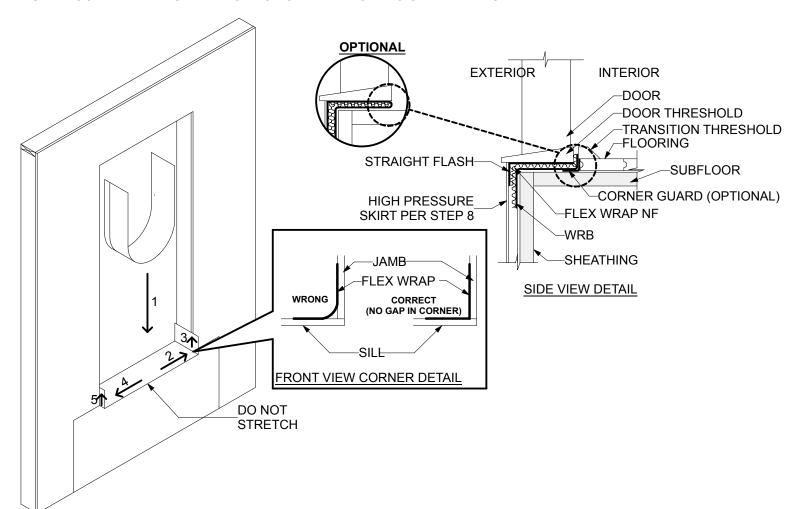
DEGREES AND CREASE THE FLASHING. REMOVED AND THE BACK DAM CAN BE COMPLETED.



STEP 3 (OPTIONAL BACK DAM)

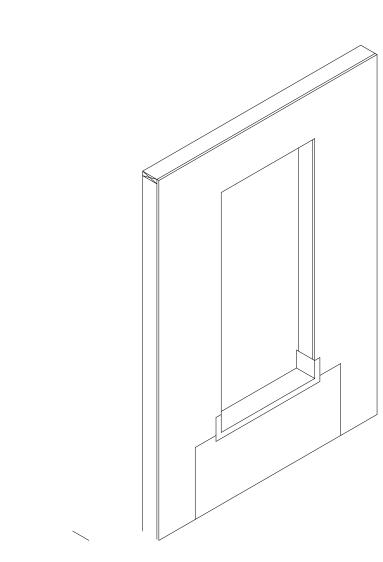
INSTALL THE SILL FLASHING AS INDICATED LEAVING 1" OF FLEX WRAP NF WITH RELEASE PAPER EXTENDING IT PAS THE DOOR THRESHOLD ON THE INSIDE. WHEN THE 1" OF RELEASE PAPER IS REMOVED, THERE SHOULD BE 3/4" OF FLASHING TO FORM THE

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.



STEP 4

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

B. CUT A PIECE OF STRAIGHT FLASH VF TO THE SAME WIDTH OF SKIRT. REMOVE RELEASE PAPER FROM ONE

C. REMOVE THE RELEASE PAPER FROM THE OTHER SIDE OF STRAIGHT FLASH VF AND ADHERE TO BUTYL

D. SECURE EDGES OF THE OPTIONAL SKIRT WITH TWO 4" PIECES OF STRAIGHT FLASH OR FLASHING TAPE.

E. TAPE THE BOTTOM OF THE OPTIONAL SKIRT TO ALLOW FOR DRAINAGE AND TO MINIMIZE WIND DAMAGE

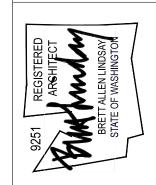
F. IF SEALANT IS APPLIED TO THE SILL, INSURE (2) 2" GAPS TO ALLOW FOR DRAINAGE FOR EVERY 4' OF DOOR

SIDE OF STRAIGHT FLASH VF AND ADHERE TO WRB. THE SKIRT MAY BE MADE WITH STRAIGHT FLASH VF OR

ADHESIVE AT THE SILL SKIRT TO THE UNDERSIDE OF THE DOOR THRESHOLD BEHIND THE JAMB FLASHING.

523 N. D ST. TACOMA, WA 98403

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STEP 5 FOR NON-FLANGED DOORS

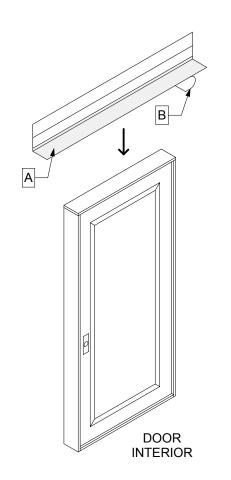
A. PREPARE HEAD FLASHING BY CUTTING A PIECE OF STRAIGHT FLASH VF AT LEAST 12" LONGER THAN THE HEAD LENGTH.

B. REMOVE THE RELEASE PAPER FROM ONE SIDE OF STRAIGHT FLASH VF. C. CENTER THE STRAIGHT FLASH VF ALONG THE

CONTACTS THE DOOR FRAME. D. BEGINNING 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.

LENGTH OF THE DOOR AND POSITION SO THAT IT

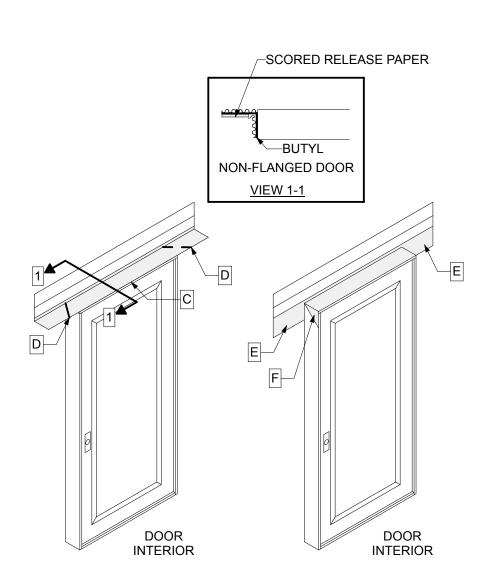
E. FOLD THE NEWLY CREATED FLASHING FLAPS DOWN PARALLEL TO THE DOOR FRAME. F. FOLD REMAINING HEAD FLASHING ONTO THE JAMB.



A. PREPARE JAMB FLASHING BY CUTTING A PIECE OF STRAIGHT FLASH VF

AT LEAST 6" LONGER THAN THE JAMB LENGTH. B. REMOVE THE RELEASE PAPER FROM ONE SIDE OF STRAIGHT FLASH VF. C. POSITION SO THAT THE STRAIGHT FLASH VF CONTACTS THE DOOR FRAME UP TO THE EXTERIOR FACE OF THE DOOR. ENSURE THAT THE JAMB FLASHING IS POSITIONED 1 1/2" BELOW TOP OF HEAD FLASHING. JAMB FLASHING ADHESIVE MUST COME IN CONTACT WITH HEAD FLASHING ADHESIVE AND OVERLAP BY ONE INCH.

D. REPEAT ON OPPOSITE JAMB.

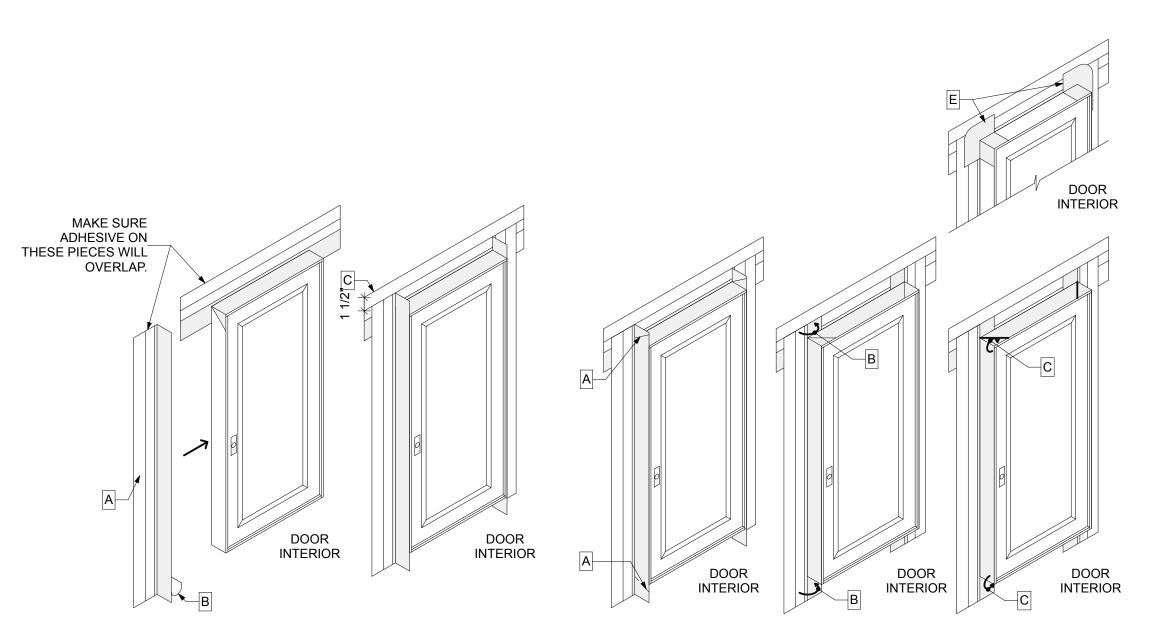


A. BEGINNING AT THE JUNCTION OF THE JAMB AND HEAD AND AT THE SILL AND JAMB AND AWAY FROM THE CORNERS, CUT THE STRAIGHT FLASH VF ALONG THE CORNERS AT A 45 DEGREE ANGLE AND FOLD IT OVER FLAT TO ADHERE IT AGAINST THE HEAD FLASHING.

B. FOLD NEWLY CREATED FLAP DOWN PARALLEL TO THE DOOR FRAME. C. FOLD FLASHING FLAPS TO THE DOOR FRAME AND ADHERE.

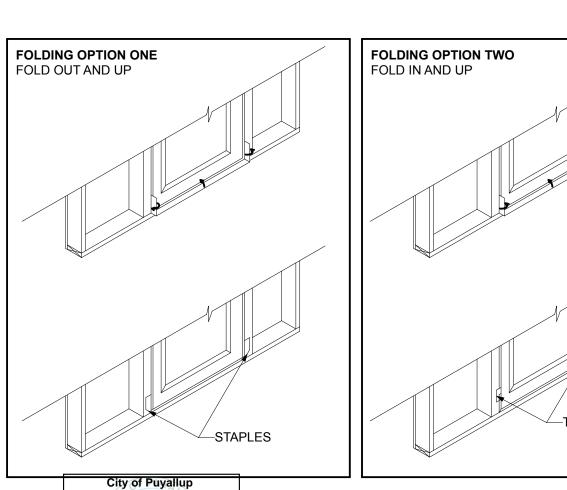
D. REPEAT ON OPPOSITE JAMB.

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. WHEN THE INTERIOR FLORING IS READY TO INSTALL, REMOVE RELEASE PAPER AND USE FOLDING OPTION

ONE OR TWO TO FORM THE BACK DAM. B. INSTALL RECOMMENDED SEALAND (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 (AND BACKER ROD AS NECESSARY) OR FOAM WILL ALSO SERVE AS A BACK DAM. SEALANT SHOULD BE TOOLED FLAT TO ALLOW THE NATURAL URING PROCESS TO CREATE A CONCAVE SHAPE. BE SURE THAT HTE SEALANT PENETRATES THE GROVES OF THE FLEX WRAP NF AROUND THE SILL



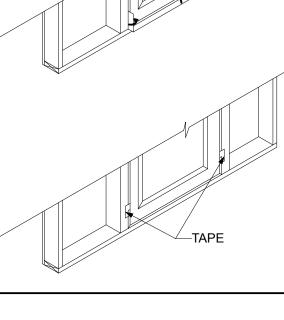
STEP 8 (OPTIONAL - HIGH PRESSURE SKIRT)

FLASHING TAPE.

DURING CONSTRUCTION.

USING RECOMMENDED SEALANT.

OPENING AND APPROXIMATELY 10" IN HEIGHT.

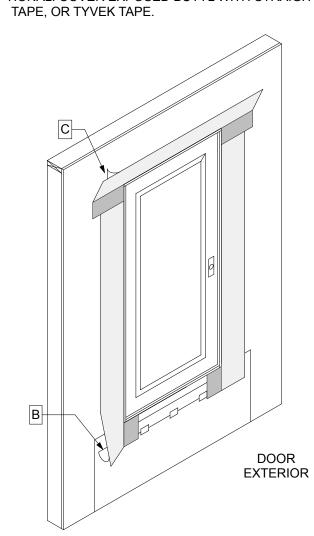


EXTERIOR

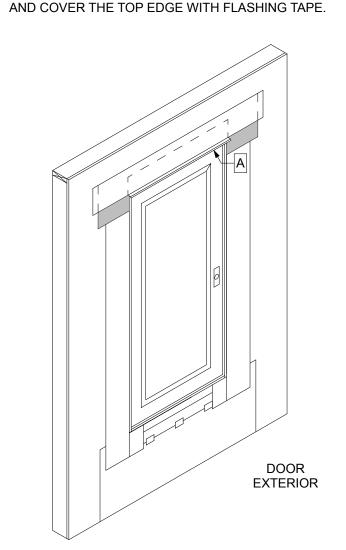
A. INSTALL DOOR ACCORDING TO MANUFACTURER'S INSTALLATION

INSTRUCTIONS. B. REMOVE THE REMAINING RELEASE PAPER FROM THE STRAIGHT FLASH VF JAMB FLASHING AND PRESS FIRMLY TO ADHERE TO THE

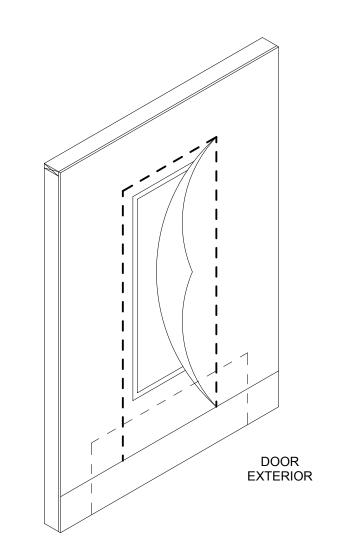
C. REMOVE THE RELEASE PAPER AT THE HEAD AND ADHERE IT TO THE EXTERIOR SHEATHING OR FRAMING MEMBERS. OPTIONAL: COVER EXPOSED BUTYL WITH STRAIGHT FLASH, FLASHING



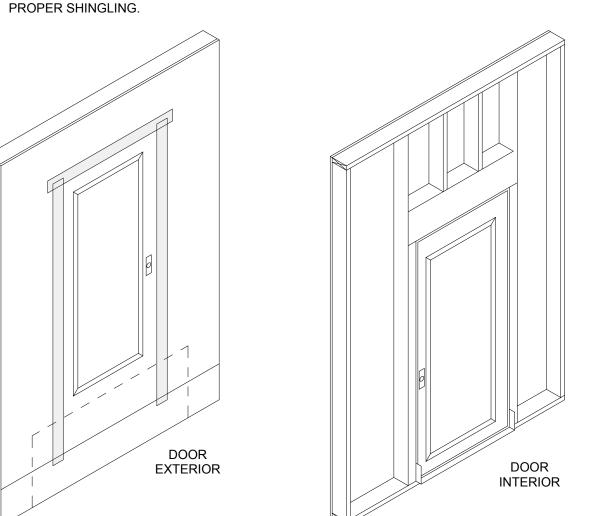
STEP 10 (OPTIONAL - RECOMMENDED BEST PRACTICE) A. CUT A PIECE OF METAL OR VINYL DRIP CAP SLIGHTLY LONGER THAN THE WIDTH OF THE DOOR AND PLACE A BEAD OF RECOMMENDED SEALANT ON THE REAR SIDE INSTALL THE DRIP CAP TIGHT AGAINST THE DOOR HEAD



AFTER INSTALLING WRB, CUT AS SHOWN TO EXPOSE DOOR AND APRON. **DO NOT CUT THROUGH THE** FLASHING SYSTEMS PRODUCTS OR APRON.



A. TAPE SEAMS AS SHOWN. DO NOT TAPE AT BOTTOM OF OPENING. AT THE HEAD, CONTINUOUS TAPE SEAMS AS SHOWN WITH TYVEK TAPE. SKIP-TAPING 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



ISSUED PERMIT

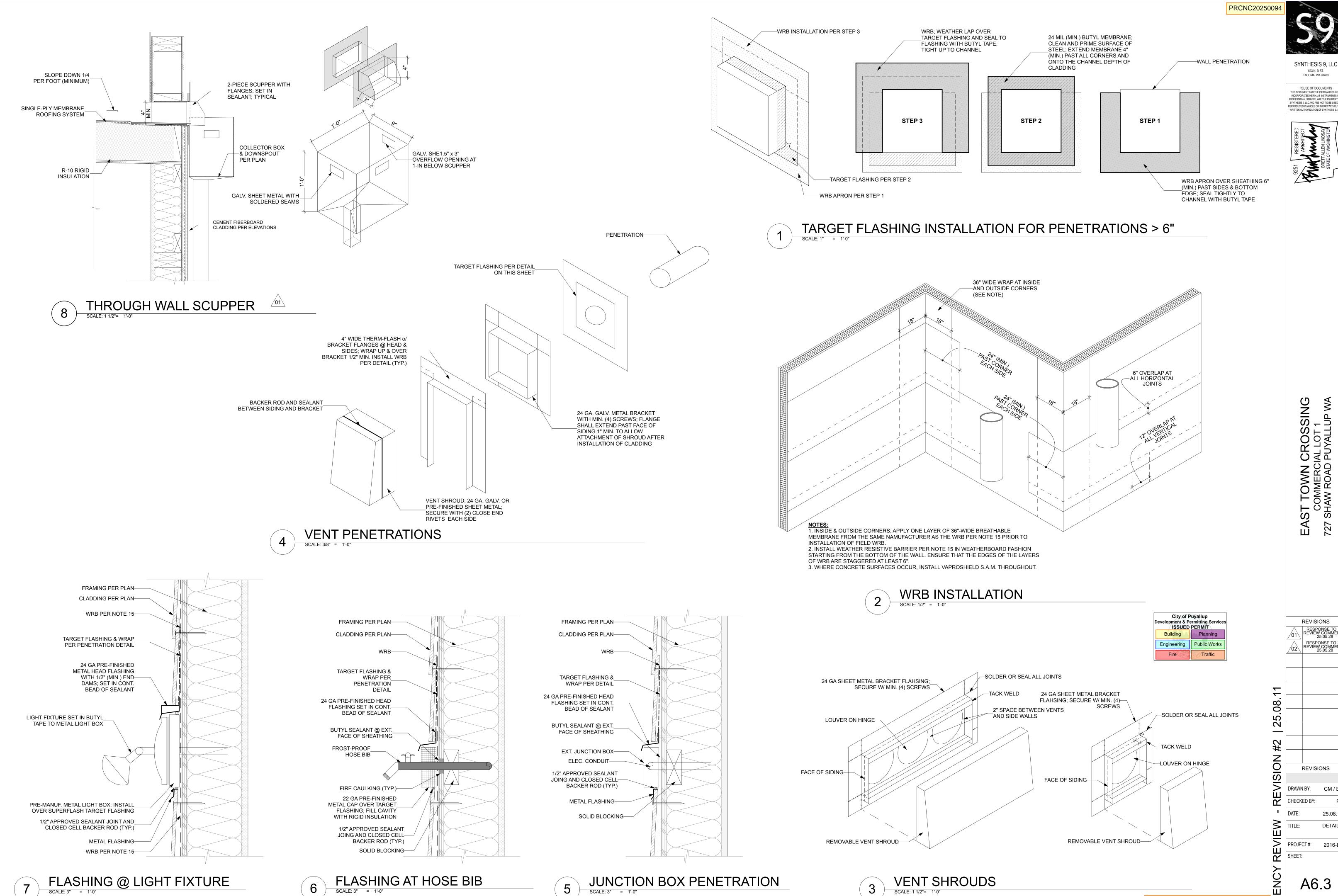
REVISIONS CHECKED BY: PROJECT #:

REVISIONS

DOOR INSTALLATION DETAILS

SCALE: 3/8" = 1'-0"

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



SCALE: 3" = 1'-0"

PROJECT #:

25.08.11

DETAILS

2016-L1

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

BEAM/HEADER

2 STUDS # OF BUILT-UP STUDS

MIN.

MTL.

N.T.S.

MINIMUM

NOT TO SCALE

METAL

U.N.O.

UNLESS NOTED OTHERWISE

10

PIERUCCIONI E&C, LLC CHON PIERUCCIONI, PE 3128 N. BENNETT ST. TACOMA, WA 9840

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REVISIONS 01\ CITY REVIEW

CHECKED BY: DATE: 2025.04.28 STRUCTURAL NOTES PROJECT#

REVISIONS

DRAWN BY:

SHEET:

Traffic

Shell Permit Only. Separate Tenant Improvement

Permit will be required prior to Occupancy.

1704.2.5

E. SINGLE-PASS FILLET WELDS < =5/16"

F. FIELD INSTALLED WELDED STUDS

G. WELDING OF STAIRS AND RAILING SYSTEM.

S1.0

SECTION

REFERENCE

BEAM/HEADER

HANGER

• 16D SINKER (0.148" DIA., 3-1/4" LENGTH

• 5D COOLER (0.086" DIA., 1-5/8" LENGTH

• 6D COOLER (0.092" DIA., 1-7/8" LENGTH

SHEAR WALL LENGTH

SHEAR WALL TYPE

HOLD DOWN/STRAP

2 STUDS # OF BUILT-UP STUDS

SYMBOL LEGEND

X'-X"

\ wx /

CONTRACT DOCUMENTS. THESE LIMITED OBSERVATIONS SHOULD NOT BE

IS IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. THE GENERAL

WITH THE CONSTRUCTION DOCUMENTS.

ABOVE FINISHED FLOOR

ABBREVIATIONS

CLEAR

CENTERLINE

CONTINUOUS

CONTROL JOINT

GLULAM BEAM

MANUFACTURER

HOLD DOWN

NOT TO SCALE

MINIMUM

METAL

LOAD BEARING WALL

CONCRETE

EACH WAY

A.F.F.

CONC

CONT

C.J.

E.W.

GLB

LBW

HD

MFR.

MIN.

MTL.

N.T.S.

CLR.

CONSTRUED AS CONTINUOUS OR EXHAUSTIVE TO VERIFY THAT ALL CONSTRUCTION

CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL WORK IN COMPLIANCE

N.T.S.

REINF.

S.O.G.

STL.

T&G

TYP.

U.N.O.

O.C.

PΤ

NOT TO SCALE

PRESSURE TREATED

REINFORCEMENT

SQUARE FEET

SLAB ON GRADE

TONGUE AND GROOVE

UNLESS NOTED OTHERWISE

ON CENTER

SIMILAR

STEEL

TYPICAL

- ASTM A992 ASTM A36
- ASTM A36 ASTM A36 ASTM A36 . ASTM A500, GRADE B . ASTM A53 (TYPE E OR S), GRADE B . *ASTM A325* . *ASTM A307* ..ASTM F1554, GRADE 55 TYPE S1(UNO)
- ASTM A108 **ASTM A496** AWS D1.1, E70 SERIES
- FACTORY PREMIX GROUT. SEE SPECIFICATIONS FOR TESTING REQUIREMENTS. 4. ENGINEER SHALL BE CONTACTED FOR APPROVAL OF ANY FIELD MODIFICATIONS OF
- 5. TEMPORARY BRACING OF STRUCTURAL STEEL ELEMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR. STRUCTURAL STABILITY SHALL BE MAINTAINED AT ALL TIMES
- FOUNDATION AND SUPPORTING WALLS HAVE ATTAINED SUFFICIENT STRENGTH TO SUPPORT THE STEEL TO BE ERECTED BEFORE ERECTING STRUCTURAL STEEL.
- PROVIDE ONE SHOP COAT OF PRIMER (TT-P-636) ON ALL STEEL EXCEPT FOR ITEMS TO BE HOT DIPPED GALVANIZED OR SPRAY FIREPROOFED. DO NOT PAINT PORTIONS
- FROM THOSE DETAILED, SHALL BE DESIGNED BY SUPPLIER FOR THE END REACTION SHOWN ON THE PLAN. IF NO REACTION IS PROVIDED, DESIGN FOR 1/2 THE BEAM MAXIMUM UNIFORM LOAD PER AISC MANUAL FOR STEEL CONSTRUCTION. SUBMIT
- 8. ALL WELD OPERATORS SHALL BE CURRENTLY AWS QUALIFIED
- 9. SHOP CONNECTIONS SHALL BE WELDED OR HIGH STRENGTH BOLTED. USE 3/16" FILLET
- 10. FIELD CONNECTIONS SHALL BE WELDED OR HIGH STRENGTH BOLTED AS DETAILED. NO FIELD WELDING OF HOT DIPPED GALVANIZED MEMBERS WILL BE ALLOWED. USE 3/16"
- 11. DURING THE ERECTION OF STEEL BEAMS AND DIAGONAL BRACING, ALL BOLTING AND FIELD WELDING SHALL BE COMPLETE BEFORE RELEASING HOISTING CABLES.
- 12. SUBMIT FOR REVIEW SHOP DRAWINGS OF STEEL DETAILS PRIOR TO FABRICATING
- 13. ALL EXTERIOR ELEMENTS AND THOSE ELEMENTS NOTED TO BE GALVANIZED SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 AFTER SANDBLAST CLEANING PER SSPC-SP10. USE ASTM A325 BOLTS HOT DIPPED GALVANIZED WITH GALVANIZED HARDENED WASHERS AND GALVANIZED HEAVY HEX NUTS FOR BOLTING
- 14. STEEL COLUMNS, BASE PLATES AND ALL STEEL BELOW GRADE SHALL HAVE A
- 15. MEMBERS NOTED AS "CONTINUOUS" SHALL BE FULLY WELDED AT ALL BUTT SPLICES OR CONNECTIONS SHALL BE DETAILED TO PROVIDE CONTINUITY.

STRUCTURAL INSPECTION	VERIFICATION/INSPECTION	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES
SOILS	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		Х		IBC 1505.6
	VERIFY EXCAVATIONS ARE PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		Х		
	PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS		Х		
	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF FILL MATERIAL	Х			
	PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		Х		
WOOD CONSTRUCTION	INSPECTION IS REQUIRED TO VERIFY NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF SHEAR WALLS WITH NAIL SPACING 4" AND LESS, DRAG STRUTS, BRACES AND HOLD DOWNS.		Х		IBC 1705.5 IBC 1705.12.1 IBC 1705.12.3
STEEL CONSTRUCTION	MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS		Х		AISC 360 N5
	HIGH STRENGTH BOLTING A. SNUG TIGHT CONNECTIONS		Х		AISC 360 N5
	MATERIAL VERIFICATION OF STRUCTURAL STEEL A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM WITH AISC 360 B. MANUFACTURERS CERTIFIED MILL TEST REPORTS		X X	MANUFACTURE'S TO PROVIDE CERTIFIED MILL TEST REPORTS	AISC 360 N5 AISC 341 J6
	MATERIAL VERIFICATION OF WELD FILLER MATERIALS A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATIONS LISTED IN GENERAL NOTES. B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE		X X	MANUFACTURE'S TO PROVIDE CERTIFICATE OF COMPLIANCE	AISC 360 N5
	INSPECTION OF WELDING A. COMPLETE AND PARTIAL JOINT PENETRATION B. MULTI-PASS FILLET WELDS C. SINGLE-PASS FILLET WELDS > $\frac{5}{16}$ " D. PLUG AND SLOT WELDS E. SINGLE-PASS FILLET WELDS < $=\frac{5}{16}$ " F. FIELD INSTALLED WELDED STUDS G. WELDING OF STAIRS AND RAILING SYSTEM.	X X X X	X X X	SPECIAL INSPECTIONS IN THIS SECTION ARE WAIVED WHERE FABRICATION IS PERFORMED ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED IN ACCORDANCE WITH IBC SECTION 1704.2.5	AISC 360 N5 AISC 341 J6 AWS D1.1

City of Puyallup lopment & Permitting Serv Building Planning Engineering Public Works

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

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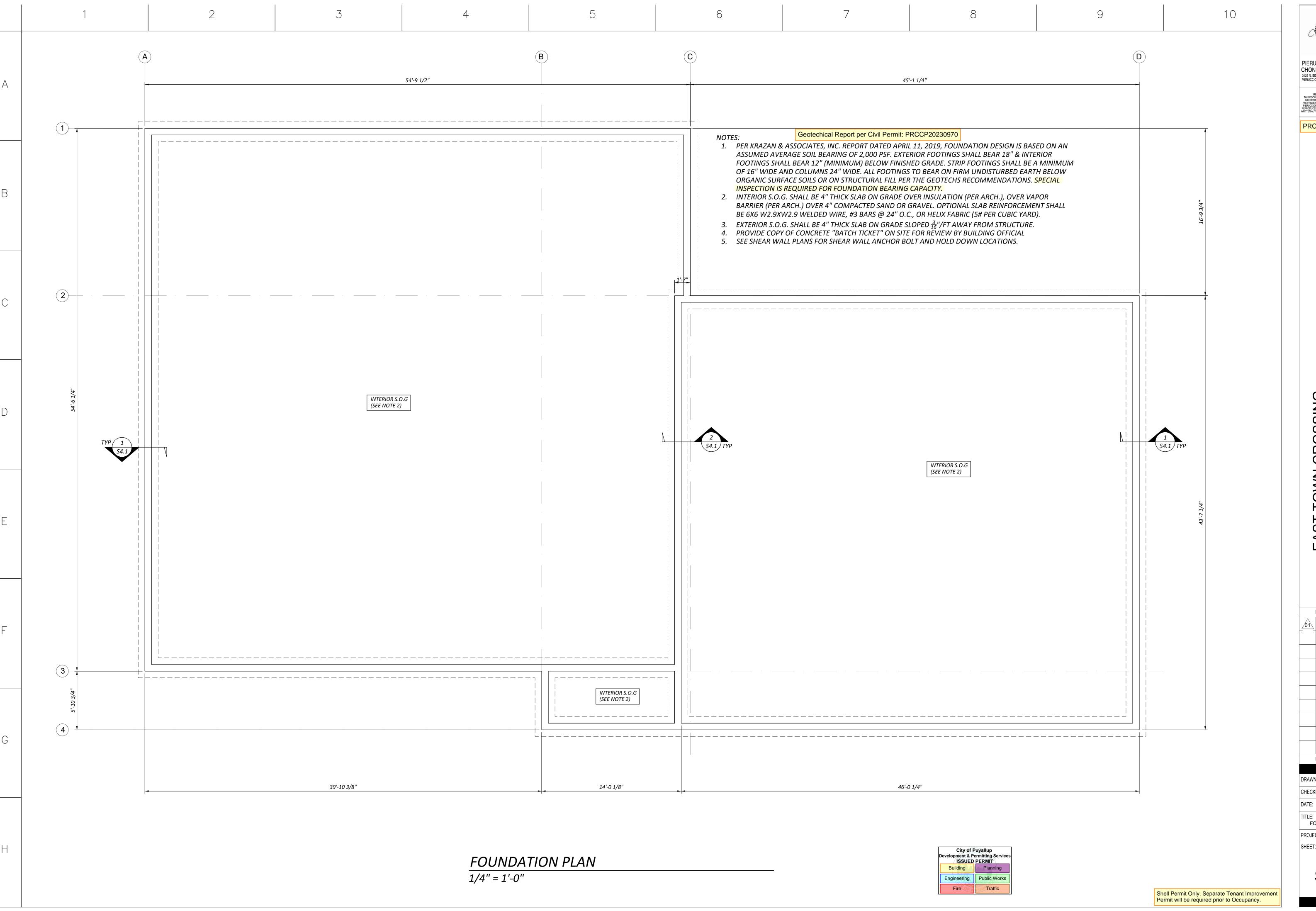
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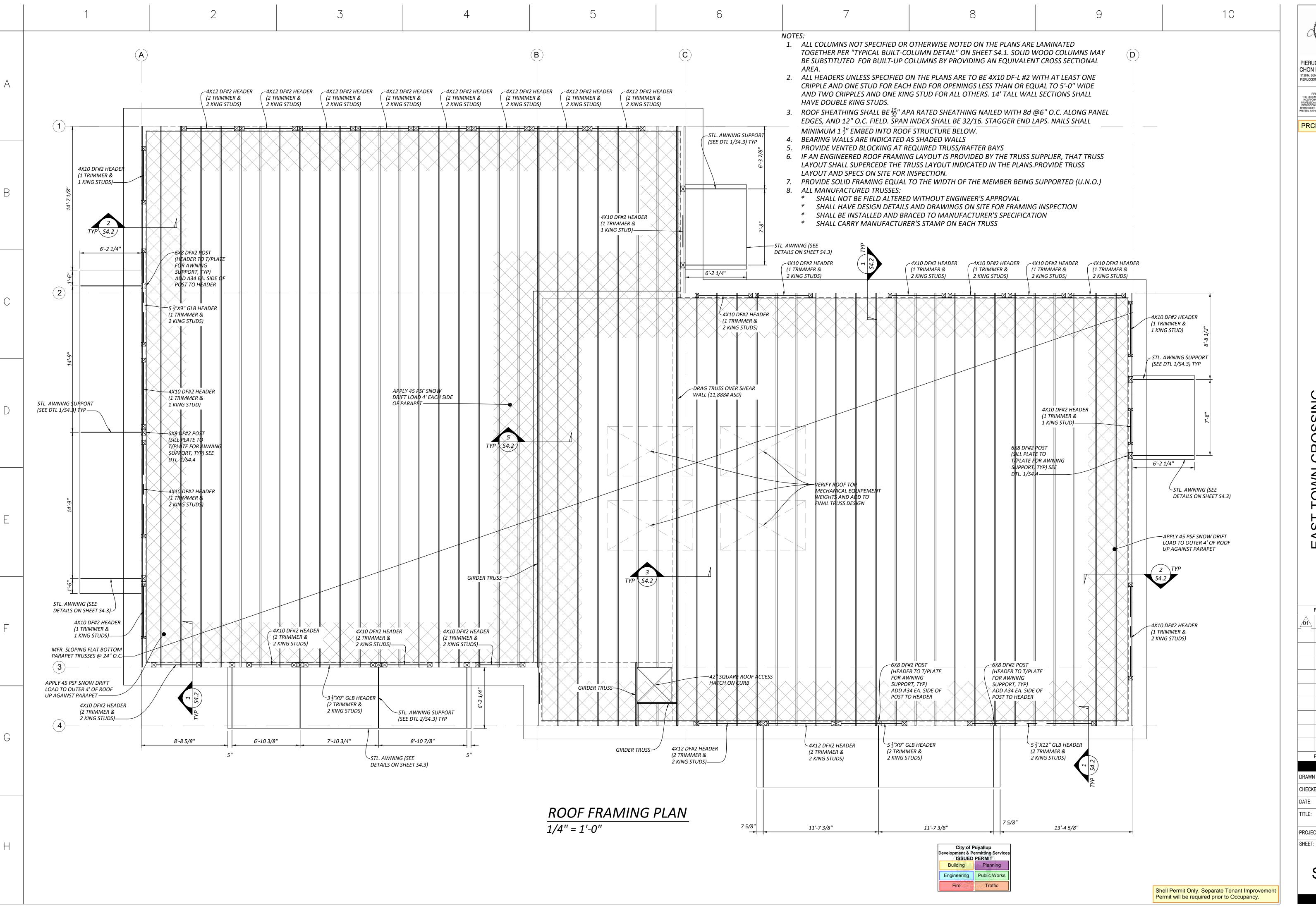
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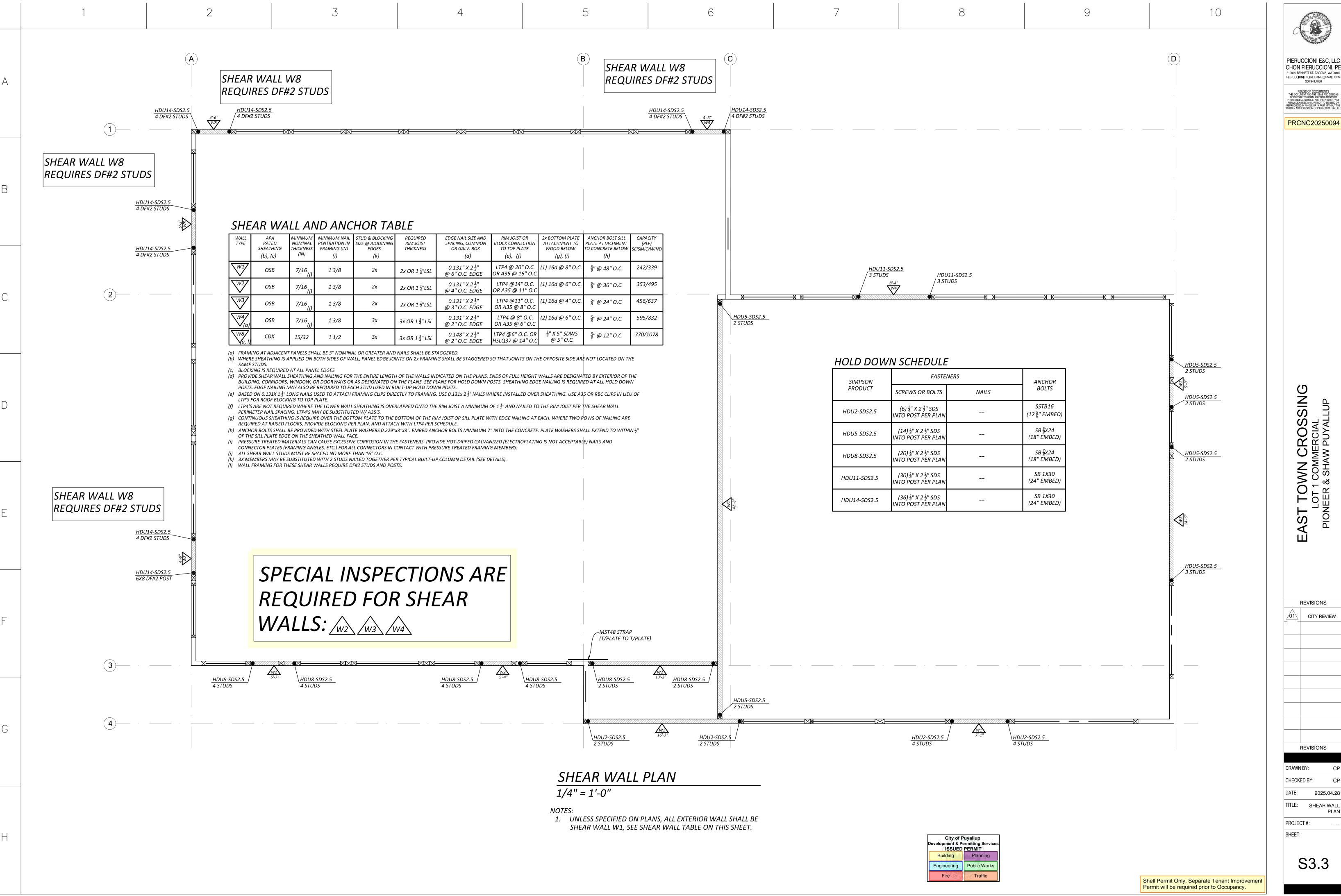
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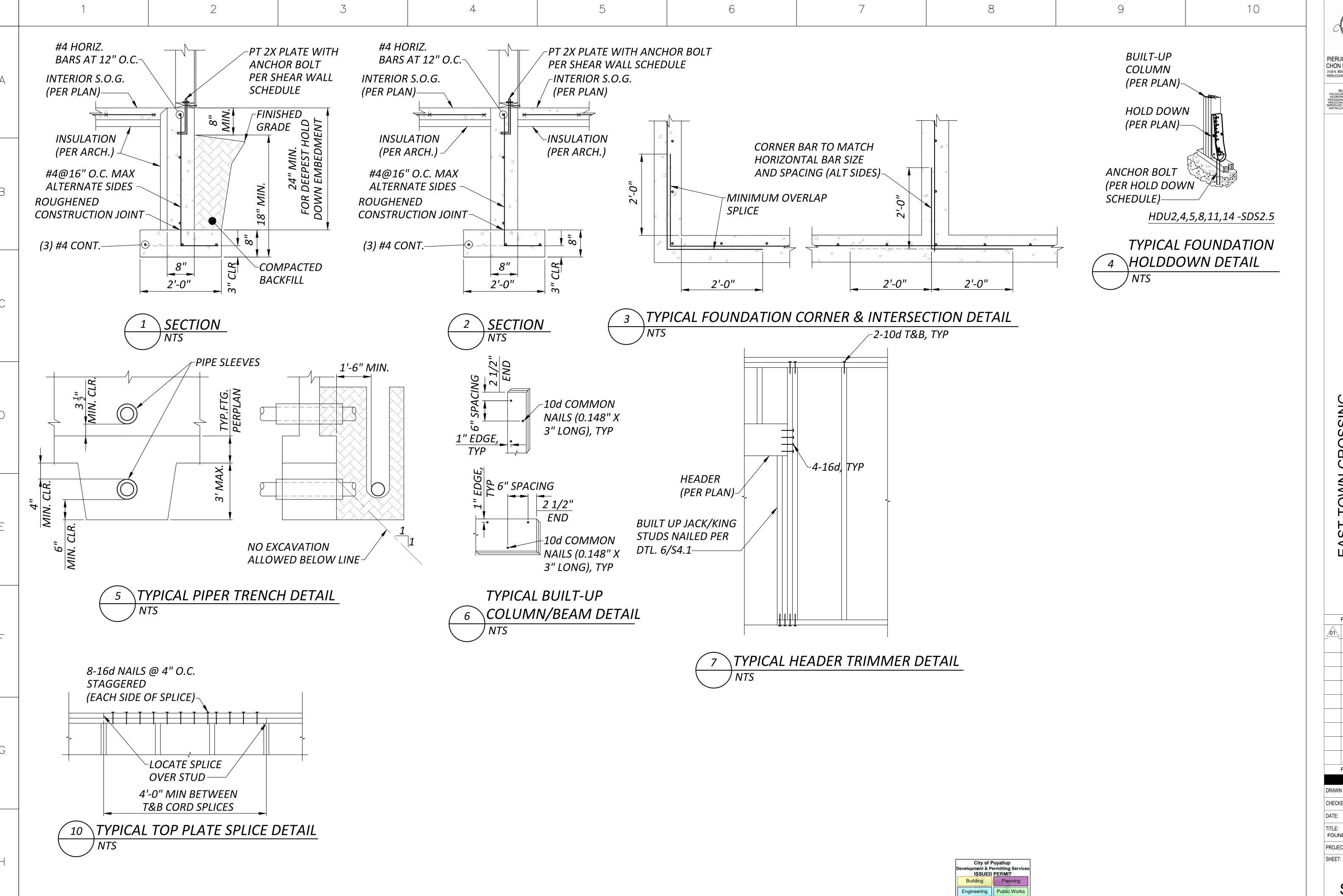
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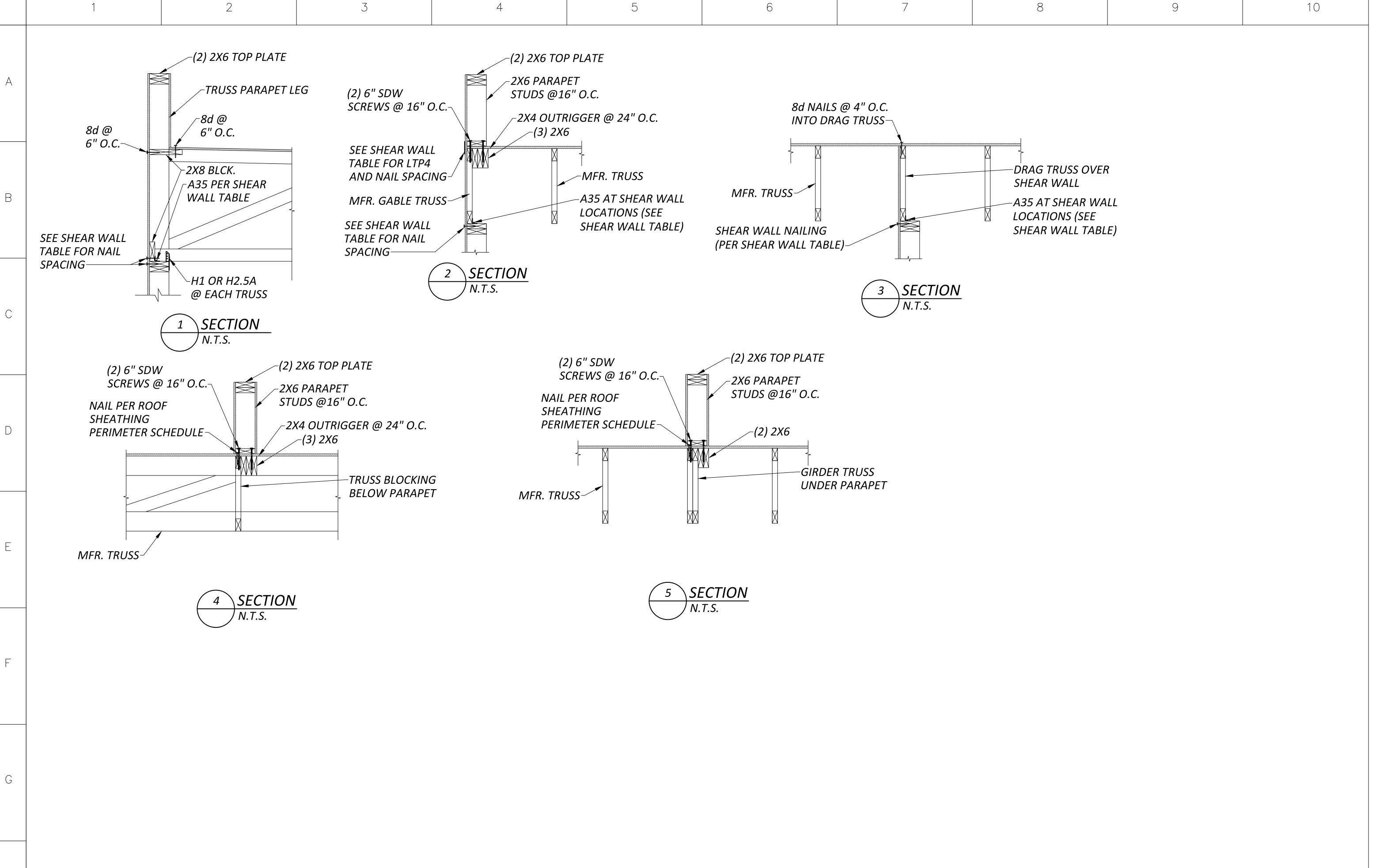
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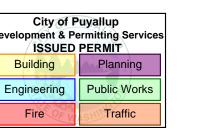
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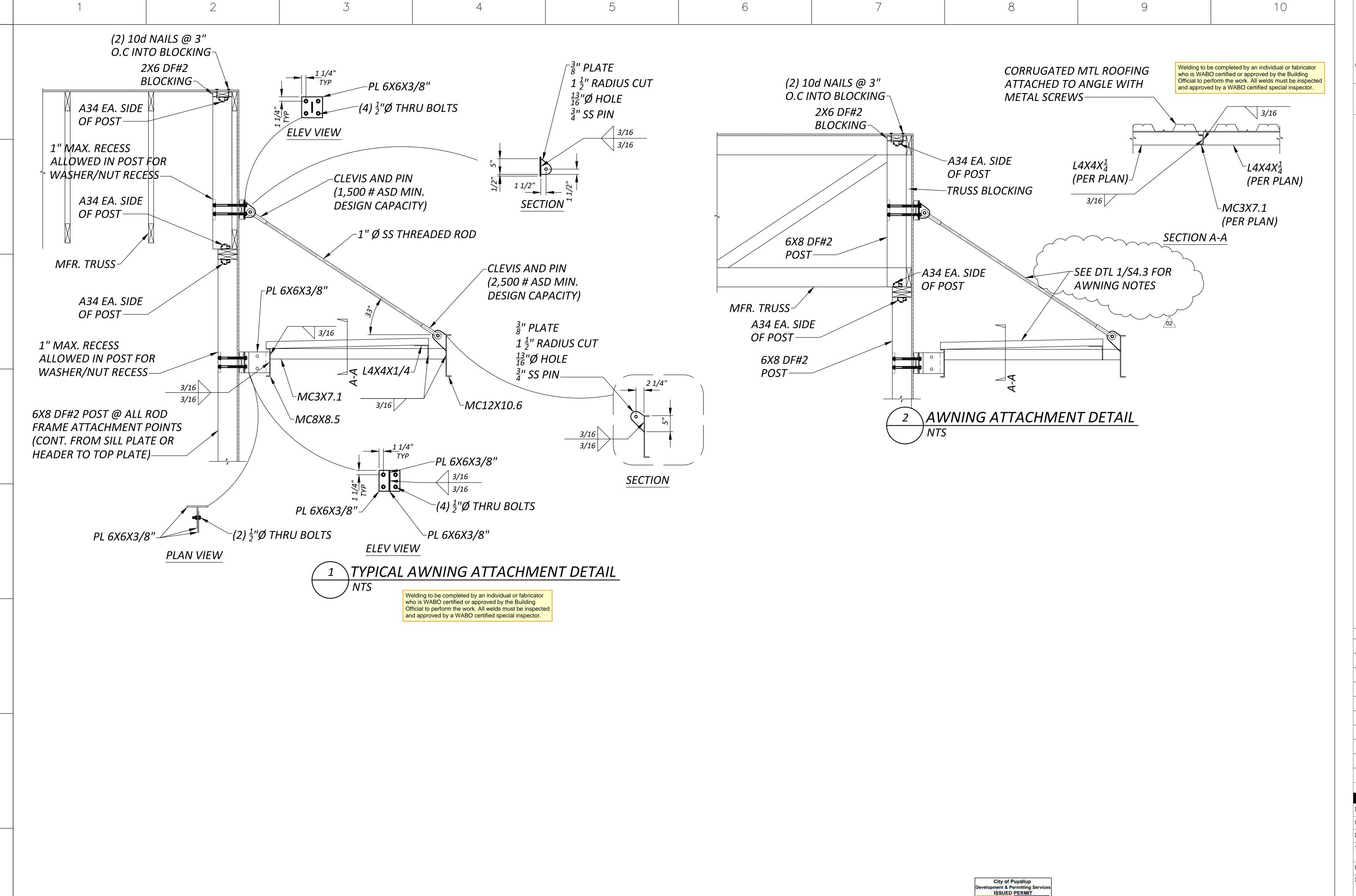
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GENERAL NOTES

GENERAL NOTES - MECHANICAL

- REFERENCE TO RELATED WORK: "REF" INDICATIONS DENOTE WORK COVERED ELSEWHERE (ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL, LANDSCAPE, OR KITCHEN), OR ITEM BASED ON A SPECIFIC MANUFACTURER'S DIMENSIONS (VERIFY).
- ELECTRICAL CHARACTERISTICS: REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS (VOLTAGES. ETC. OF MECHANICAL EQUIPMENT, UNLESS OTHERWISE INDICATED.
- CODES: COMPLETE INSTALLATION OF THE MECHANICAL SYSTEM SHALL BE PER THE APPLICABLE BUILDING, MECHANICAL, ENERGY, PLUMBING, FIRE, AND HEALTH CODES AND REGULATIONS AS ADOPTED BY THE LOCAL AHJ.
- PREPARE AND SUBMIT FOR REVIEW A SHOP DRAWING BASED ON FINAL STRUCTURAL SHOP DRAWINGS FOR LOCATING AND ROUTING ALL DUCTWORK, DAMPERS, EQUIPMENT, PIPING, ETC.
- A. COORDINATE FLOOR AND BEAM PENETRATIONS WITH STRUCTURAL
- B. COORDINATE FINAL LOCATION AND ROUTING WITH CEILING, LIGHTS, WALLS, FIRE SPRINKLER PIPING, AND OTHER TRADES WORK. C. INCLUDE ADDITIONAL OFFSETS, ELBOWS, ROUTING
- AS REQUIRED FOR A COMPLETE OPERATING MECHANICAL SYSTEM. D. PROVIDE SHOP DRAWINGS AT NO ADDITIONAL COST TO THE OWNER.

EQUIVALENT DUCT SIZING EXCHANGE, RELOCATING, ETC.

- MECHANICAL CONTRACTOR SHALL LOCATE AND COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITHIN THE STRUCTURE.
- ACCESS DOORS: COORDINATE WITH ARCHITECT AND LOCATE ALL ACCESS DOORS ON SHOP DRAWINGS PRIOR TO BEGINNING OF CONSTRUCTION. ACCESS DOORS IN FIRE RATED STRUCTURE SHALL BE FIRE RATED. VERIFY ACCESS DOOR LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO BIDDING.
- RATED PENETRATION: DUCT PENETRATIONS THROUGH RATED ENCLOSURES SHALL BE FIRE/SMOKE DAMPERED PER THE LATEST EDITION OF THE UNDERWRITERS LABORATORIES(UL) FIRE RESISTANCE WITH HOURLY RATINGS FOR THROUGH-PENETRATION FIRE STOPS SYSTEM VOLUME #2, OR SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S UL LISTINGS (3M OR EQUIVALENT). DETERMINE REQUIREMENTS WITH GENERAL CONTRACTOR PRIOR TO BID.
- EXHAUST OUTLETS: SOURCE-SPECIFIC FANS SHALL BE VENTED TO OUTDOORS WITH A MINIMUM 3' CLEARANCE BETWEEN VENT OUTLETS AND BUILDING OPENINGS, AND 10' MINIMUM BETWEEN VENT OUTLETS AND MECHANICAL AIR INTAKES.
- ROOF PENETRATIONS: SEE ARCHITECTURAL DRAWINGS FOR ROOF CAP, ROOF CURB, ROOF DRAIN, AND VTR DETAILS.
- EXPOSED PIPING: PROVIDE CHROME PLATING FOR EXPOSED PIPING IN FINISHED ROOMS.
- PENETRATIONS: PROVIDE ESCUTCHEON PLATES FOR EXPOSED PIPING PENETRATIONS AND SHEET METAL FLASHING FOR EXPOSED DUCTWORK PENETRATIONS.
- 12. SHAFT AND PLENUM CONNECTIONS: SEAL CONNECTIONS TO AIR SHAFTS AIRTIGHT. PROVIDE AIRTIGHT SEAL AROUND PENETRATIONS IN AIR PLENUMS.
- 13. LIGHT FIXTURE CLEARANCE: COORDINATE LOCATIONS OF MECHANICAL WORK TO PROVIDE CLEARANCES OVER LIGHTING FIXTURES FOR REMOVAL AND REPLACEMENT.
- 14. MOTORS: COMPLY WITH ENERGY CODE ENFORCED BY AHJ FOR MINIMUM EFFICIENCIES UNDER FULL LOAD.
- 15. ACCESS CLEARANCES FOR MAINTENANCE AND REPLACEMENT: VERIFY PHYSICAL DIMENSIONS OF EQUIPMENT TO ENSURE THAT ACCESS CLEARANCES CAN BE MET. COORDINATE LOCATIONS OF MECHANICAL WORK AND WORK OF OTHER TRADES TO PROVIDE ACCESS CLEARANCES FOR SERVICE AND MAINTENANCE.

COORDINATION REQUIREMENTS

- PIPING: COORDINATE WITH STRUCTURAL FOR EXACT LOCATION OF ALL STRUCTURAL FRAMING AND FOOTINGS AND FINALIZE THE EXACT ROUTING OF ALL PIPES WITH STRUCTURAL AND AT THE SITE PRIOR AND DURING THE CONSTRUCTION.
- DUCTWORK: LOCATE AND COORDINATE THE EXACT LOCATION OF DUCTWORK WITH STRUCTURAL PLANS AND WITH THE GENERAL CONTRACTOR PRIOR TO INSTALLATION OF ANY STRUCTURE OR EQUIPMENT. COORDINATE WITH FRAMING CONTRACTOR TO ASSURE JOIST SPACES LINE UP WHEN DUCTWORK MUST PASS THROUGH DIFFERENT JOIST SPACES.
- ADJUSTMENTS: ALL EQUIPMENT, MOTORS, FANS GAS BURNERS, IGNITION DEVICES, DRIVES, ETC. SHALL BE ADJUSTED AND BALANCED TO OPERATE AT SPECIFIED RATINGS AS REQUIRED FOR THIS PROJECT SITE AND ACCOUNTING FOR ELEVATION ABOVE SEA LEVEL.
- APPROVALS: MECHANICAL AND PLUMBING EQUIPMENT SHALL BE APPROVED FOR INSTALLATION IN THE PROJECT LOCATION AND SHALL HAVE ALL CERTIFICATIONS AND RATINGS TO MEET ALL ENERGY, POLLUTION, ENVIRONMENTAL, SEISMIC, ETC. CODES AND REGULATIONS. THE CONTRACTOR SHALL COORDINATE WITH HIS MANUFACTURE SUPPLIERS AND SHALL INCLUDE ALL COSTS REQUIRED TO MEET THESE REQUIREMENTS IN HIS BID.
- FIRE PROTECTION: CONTRACTOR SHALL PROVIDE A FULLY DESIGNED FIRE PROTECTION SPRINKLER SYSTEM IN COMPLIANCE WITH NFPA AND LOCAL CODES. PROVIDE DESIGN, PERMITS, MATERIALS, INSTALLATION, TESTING AND ALL OTHER FOR A FULLY OPERATIONAL SYSTEM. LOCATION OF ALL PIPING TO BE COORDINATED WITH OTHER TRADES.

PIPING NOTES

- 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.
- 3. OFFSETS: PROVIDE FOR BRANCH LINES TO EQUIPMENT.
- 4. DIELECTRIC UNIONS: PROVIDE AT CONNECTIONS OF DISSIMILAR PIPE.
- 5. 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.

INSULATION/LINING NOTES

- ENERGY CODE: AS A MINIMUM, COMPLY WITH THICKNESSES AND TYPES LISTED IN ENERGY CODE ENFORCED BY AHJ.
- EXTENT OF INTERNAL DUCT LINING: A. GRILLE AND DIFFUSER BOXES AND BOOTS.
- B. TRANSFER DUCTS. C. THE FIRST 10 FEET OF SUPPLY AND RETURN DUCTWORK FROM THE AIR HANDLER.
- EXTENT OF EXTERNAL DUCT INSULATION: A. SUPPLY AND RETURN AIR IN UNCONDITIONED SPACES, MECHANICAL ROOMS, ELECTRICAL ROOMS, AND EQUIPMENT ROOMS NOT SPECIFIED TO BE INTERNALLY
- B. SUPPLY AIR ABOVE CEILINGS OR EXPOSED NOT SPECIFIED TO BE INTERNALLY LINED. C. OUTDOOR AIR INTAKE.
- MISCELLANEOUS DUCT FITTINGS (CONICAL TAKEOFFS, ETC.): WRAP WITH INSULATION FOR CONDENSATION CONTROL.

PLAN NOTES

- DUCTWORK SHALL BE METALLIC DUCTWORK
- 2. TEST AND BALANCE WORK SHALL BE PERFORMED BY AN INDEPENDENT TEST AND BALANCE AGENCY. PROVIDE (3) COPIES OF TEST AND BALANCE REPORT TO OWNER.
- COORDINATE DUCTWORK WITH MISCELLANEOUS OBSTRUCTIONS IN CEILING SPACE.
- RESTROOM EXHAUST SHALL BE A MINIMUM OF 10' FROM ANY MECHANICAL OUTSIDE AIR INTAKES.
- 5. ROUTE DUCTWORK UNDERNEATH JOISTS UON.
- TRANSITION DUCT UNDER BEAMS AND DUCTS. FIELD VERIFY AVAILABLE CEILING CAVITY DIMENSIONS.
- 7. COORDINATE MOUNTING HEIGHT OF DIFFUSERS WITH ARCHITECTURAL PLANS.

SHEET METAL NOTES

- REFERENCE: SMACNA HVAC DUCT CONSTRUCTION STANDARDS. METAL AND FLEXIBLE. CURRENT EDITION.
- 2. CLEARANCE: COORDINATE DUCTWORK WITH MISCELLANEOUS OBSTRUCTIONS IN CEILING SPACE.
- 3. ROUND ELBOWS AND OFFSETS: FULL RADIUS (R/D = 1.5). 5-PIECE SEGMENTED OR STAMPED. REFER TO SMACNA HVAC FIG 2-7, 3-3. DO NOT USE ANGLED OFFSET (TYPE 1). MITERED OFFSET (TYPE 2) MAY BE USED UP TO 30 DEGREE OFFSET ANGLE.
- ROUND TEES AND LATERALS: CONICAL TEE PER SMACNA HVAC FIG 3-5; DO NOT USE STRAIGHT TEE; DO NOT USE CONICAL SADDLE TAP FOR EXPOSED DUCTWORK IN FINISHED SPACES. 90-DEGREE TEE WITH OVAL TO ROUND TAP, LATERAL, AND 45-DEGREE RECTANGULAR LEAD-IN PER SMACNA HVAC FIG 3-4.
- 5. RECTANGULAR ELBOWS AND OFFSETS: FULL RADIUS WHERE SPACE PERMITS, R/W = 1.5; OTHERWISE USE SQUARE CORNER ELBOW WITH TURNING VANES.
- RECTANGULAR DIVIDED FLOW FITTINGS: USE GENERALLY, EXCEPT BRANCHES TO TERMINALS; SMACNA HVAC FIG 2-5, TYPES 1, 2, 4A, AND 4B. DO NOT USE TYPE 3.
- TURNING VANES: H.E.P. MANUFACTURER OR APPROVED HIGH EFFICIENCY PROFILE AIRFOIL TYPE FOR RECTANGULAR SQUARE THROAT ELBOWS. ACOUSTICAL TYPE FOR RETURN AIR MITERED ELBOWS.
- 8. TAKEOFFS TO OPENINGS: CONICAL TYPE WITH VOLUME DAMPER FOR ROUND DUCT BRANCHES PER SMACNA HVAC FIG 2-6, MINIMUM INLET DIAMETER 2 INCHES LARGER THAN DUCT SIZE. 45 DEGREE ENTRY FITTING FOR RECTANGULAR DUCT BRANCHES PER SMACNA HVAC FIG 2-6.
- FLEXIBLE CONNECTIONS: PROVIDE AT EACH DUCT CONNECTION TO FANS, PACKAGED HVAC EQUIPMENT, EXTERNALLY ISOLATED AIR HANDLING UNITS, FAN COIL UNITS, AND SIMILAR EQUIPMENT. EXCEPTION: EQUIPMENT IN CORRIDOR CEILING SPACES WHERE FIRE RATING IS REQUIRED.
- ALL DUCT WORK SHALL BE CLASSIFIED FOR LOW PRESSURE SYSTEMS PER IMC SECTION 603.
- 11. ALL DUCTS AND JOINTS SHALL BE SEALED PER IMC SECTION 603.

HVAC NOTES

ATTACHMENTS: AIR DISTRIBUTION OUTLETS AND LOUVERS

SHALL HAVE ALL REQUIRED ACCESSORIES AND ATTACHMENTS FOR A COMPLETE CONNECTION TO THE SPECIFIC TYPE OF STRUCTURE THAT THEY ARE BEING ATTACHED TO. THIS INCLUDES, BUT IS NOT LIMITED TO EXTERIOR BRICKS, GWB WALLS, GWB CEILING, ETC.

- DUCTWORK: DUCTWORK SHALL BE SMOOTH SHEET METAL (CLASS-1), DUCTWORK THROUGH FIRE RATED STRUCTURE AND FLOOR SHALL BE MIN. 26 GA. STEEL. MAXIMUM LENGTH OF FLEXIBLE DUCTS SHALL BE 5'-0", UNLESS OTHERWISE NOTED ON DRAWINGS. DUCTWORK SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
- SEISMIC: PROVIDE SEISMIC RESTRAINTS FOR MECHANICAL EQUIPMENT, PIPING, AND DUCTWORK PER SMACNA AND LOCAL REGULATIONS.
- FILTER CLEARANCE: PROVIDE ADEQUATE CLEARANCE FOR CHANGING AIR FILTERS.
- DUCTWORK AND PIPING OUTSIDE OF MECHANICAL ROOMS SHALL BE CONCEALED, COORDINATE WITH THE GENERAL CONTRACTOR TO FUR-OUT AS REQUIRED.
- 6. FIRE RATINGS: RATED FLOOR/CEILING JOINT SPACES HAVING DUCTWORK INSIDE THEM SHALL BE FIRE/SMOKE PROTECTED TO MAINTAIN THE 1-HOUR FLOOR/CEILING RATING PER LOCAL JURISDICTIONS. EXHAUST DUCTWORK PENETRATING THE 1-HOUR ROOF/CEILING OR FLOOR/CEILING ASSEMBLY SHALL HAVE ACCESSIBLE CEILING FIRE DAMPERS. ALTERNATIVELY, THE EXHAUST DUCTWORK SHALL BE ROUTED INSIDE A RATED SHAFT TO PROTECT THE CEILING/ROOF RATING PER THE LOCAL JURISDICTIONS
- FIRESTOP: PIPE, DUCT AND CONDUIT PENETRATIONS THROUGH RATED ASSEMBLIES SHALL BE FIRE AND SMOKE STOPPED PER CODE.
- DUCTWORK: DUCTWORK SHALL BE SMOOTH SHEET METAL (CLASS-1). DUCTWORK THROUGH FIRE RATED STRUCTURE AND FLOOR SHALL BE MIN. 26 GA. STEEL. MAXIMUM LENGTH OF FLEXIBLE DUCTS SHALL BE 5'-0" UNLESS OTHERWISE NOTED ON DRAWINGS. DUCTWORK SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
- VOLUME DAMPERS: PROVIDE AN ACCESSIBLE MANUAL VOLUME DAMPER FOR EACH SUPPLY, RETURN, OSA AND EXHAUST OPENING, LOCATED AS FAR UPSTREAM AS POSSIBLE FROM THE OPENING. PROVIDE A MANUAL VOLUME DAMPER FOR BRANCH MAINS SERVING MORE THAN ONE OPENING. VOLUME DAMPERS IN NON-ACCESSIBLE CEILING SHALL HAVE A CONTROL ARM EXTENDED TO AN ACCESSIBLE LOCATION. PROVIDE "YOUNG" REGULATOR OR EQUAL. EXACT LOCATION OF CONTROL DEVICES VISIBLE IN FINISHED SPACES SHALL BE COORDINATED WITH THE ARCHITECT.
- 10. CORRIDOR THERMOSTAT: PROVIDE TAMPERPROOF THERMOSTATS IN CORRIDORS. DO NOT PROVIDE PLASTIC GUARDS TO MAKE THE THERMOSTATS TAMPERPROOF. PROVIDE BLANK SECURABLE THERMOSTAT COVERS.

APPLICABLE CODE

BUILDING CODE:

2021 WASHINGTON STATE ENERGY CODE—COMMERCIAL PROVISIONS

2021 WASHINGTON STATE MECHANICAL CODE

DRAWINGS ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A

PRE-CON MEETING NOTES

COMPLETE SYSTEM.

CONTRACTORS SHALL ATTEND A PRE-CONSTRUCTION MEETING WITH THE ENGINEER FOR THE PURPOSE OF REVIEWING THE WORK PRIOR TO ORDERING ANY EQUIPMENT OR PERFORMING ANY WORK. THE MEETING SHALL BE LOCATED AT THE PROJECT SITE ON A DATE AND TIME TO BE MUTUALLY AGREED. THE MEETING WILL BE A WORKING SESSION. THE MEETING WILL BE FACILITATED BY THE ENGINEER AND THE AGENDA WILL INCLUDE A DETAILED REVIEW OF THE PLANS AND SPECIFICATIONS, CROSS CHECK WITH OTHER TRADES FOR COORDINATION ISSUES, REVIEW OF PROPOSED PRODUCTS, REVIEW OF PLANNED MEANS AND METHODS, AND ON-SITE INVESTIGATION OF FIELD CONDITIONS RELATIVE TO EXISTING CONDITIONS THAT COULD AFFECT THE WORK. PERSONS ATTENDING THE MEETING SHALL BE KNOWLEDGEABLE OF THE PROJECT AND SHALL BE THE SPECIFIC PERSONS INTENDED TO CONTINUE WITH THE PROJECT THROUGH TO COMPLETION. IF REQUIRED, REVISED PLANS WILL BE ISSUED THROUGH OFFICIAL CHANNELS. CHANGES IN THE BID PRICE WILL BE DISCUSSED, BUT NO CHANGE ORDERS WILL BE ISSUED UNLESS PROCESSED THOUGH OFFICIAL CHANNELS. IT SHALL BE UNDERSTOOD THAT THE ENGINEER HAS NO AUTHORITY TO ISSUE CHANGE ORDERS.

THE FOLLOWING TRADES SHALL BE REPRESENTED FOR THE MINIMUM TIME INDICATED:

4 HOURS MECHANICAL SHEET METAL PLUMBING / PIPING 4 HOURS 4 HOURS ELECTRICAL SPRINKLER 2 HOURS GENERAL CONTRACTOR ALL SESSIONS **ANNOTATIONS** AIR CONDITIONING UNIT ABOVE FINISHED FLOOR AUTHORITY HAVING JURISDICTION AIR HANDLING UNIT BACKDRAFT DAMPER BRAKE HORSEPOWER BRITISH THERMAL UNIT PER HOUR COMMON CAPACITY COOLING COIL CEILING DIFFUSER CUBIC FEET PER MINUTE CEILING, COOLING

CO CLEANOUT COMB COMBUSTION CONT CONTINUE. CONTROL CONTR CONTRACTOR COP COEFFICIENT OF PERFORMANCE CWS CHILLED WATER SUPPLY CWR CHILLED WATER RETURN DIAMETER DRY BULB, DECIBEL DEG DEGREE DIM DIMENSION

BDD

BHP

CAP

CFM

CLG

BTUH

DISCH DISCHARGE EXHAUST AIR ENTERING AIR TEMPERATURE EER ENERGY EFFICIENCY RATIO EXHAUST FAN EFF EFFICIENCY EXHAUST GRILLE, ENGINE **GENERATOR** ELEC ELECTRIC **EQUIV EQUIVALENT**

ESP EXTERNAL STATIC PRESSURE EXH EXHAUST EXT EXTERIOR, EXTERNAL **FAHRENHEIT** FD FIRE DAMPER FCU FAN COIL UNIT FLR FLOOR FPM FEET PER MINUTE FPS FEET PER SECOND FSD FIRE/SMOKE DAMPER

GRILLES, REGISTERS, AND GRD DIFFUSERS GYPSUM WALLBOARD HORIZ HORIZONTAL HORSEPOWER. HEAT PUMP HRU HEAT RECOVERY UNIT

HVAC HEATING, VENTILATING, AND AIR CONDITIONING HEATING AND VENTILATION UNIT HIGH WALL RETURN, HOT WATER RETURN

HIGH WALL SUPPLY, HOT WATER SUPPLY HEAT EXCHANGER INDIRECT DRAIN, INSIDE DIAMETER ID

IN KILOWATT LONG, LENGTH LOW WALL RETURN LWR LOW WALL SUPPLY LWS THOUSAND BTU PER HOUR MRH MECH MECHANICAL MCA MINIMUM CIRCUIT AMPACITY

MAXIMUM OVER CURRENT MOCP **PROTECTION** MTD MOUNTED OSA OUTDOOR AIR OBD OPPOSED BLADE DAMPER OD OUTSIDE DIMENSION OR DIAMETER OPNG OPENING

PDPRESSURE DROP POC POINT OF CONNECTION PRV PRESSURE REDUCING VALVE **PSIG** POUNDS PER SQUARE INCH GAUGE RA RETURN AIR REF REFERENCE RELIEF FAN RG RETURN GRILLE RPM REVOLUTIONS PER MINUTE

SUPPLY AIR SCH SCHEDULE SUPPLY FAN, SQUARE FOOT SENS SENSIBLE SUPPLY GRILLE

SMACNA SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL **ASSOCIATION** SCREENED OPENING STATIC PRESSURE SS STAINLESS STEEL, SANITARY SEWER

SQUARE TRANSFER GRILLE TYP TYPICAL UH UNIT HEATER UON UNLESS OTHERWISE NOTED VENTILATION, VENTILATOR VENT VTR VENT THRU ROOF WASTE, WATT, WIDE WET BULB (TEMPERATURE)

SYMBOLS

DUCTWORK

PRESSURE

OR ROOF

RATED, UON

TURNING VANES

90° TAKE-OFF OR TEE

90° CONICAL TAKE-OFF

45° LATERAL TAKE-OFF

FLAT ON TOP, FOB = FLAT ON

45° TAPER

TRANSITION OR REDUCER (FOT =

90° RECTANGULAR TAKE-OFF WITH

90° DIVERGING RECTANGULAR TEE,

CONNECTION, EITHER RADIUS OR

PARALLEL FLOW BRANCH

ROUND DUCT INDICATOR

TURNING VANES

FLEXIBLE DUCT

City of Puyallup

ISSUED PERMIT

Engineering Public Works

Building

Fire

opment & Permitting Service

Planning

Traffic

EITHER RADIUS OR TURNING VANES

18x12

DOWN

UP

 \searrow

UP

DUCT (1ST FIGURE = SIDE SHOWN,

2ND FIGURE = SIDE NOT SHOWN)

DUCT SECTION, POSITIVE PRESSURE

DUCT PENETRATION THRU FLOOR

90° ELBOW, R/D OR R/W=1.5

SQUARE CORNER ELBOW WITH

DUCT SECTION, NEGATIVE

ROUND DUCT SECTION

EQUIPMENT TYPICAL EQUIPMENT DESIGNATION (EXHAUST FAN SHOWN) DUCT SMOKE DETECTOR ROOM THERMOSTAT OR TEMPERATURE TRANSMITTER

> ROOM HUMIDISTAT OR HUMIDITY TRANSMITTER CARBON MONOXIDE SENSOR SMOKE DETECTOR

CD-12x12 OR CD-1 DIFFUSER/GRILLE TYPE, AND VOLUME DAMPER FIRE/SMOKE DAMPER $(-- \blacktriangleleft =$ 400 DESIGN CFM (WHERE APPLICABLE) 400 FSD HORIZ DUCT, -- = VERT DUCT), CEILING DIFFUSER (FLOW ARROWS 2-HR RATED, UON SHOWN FOR NON SYMMETRICAL FIRE DAMPER $(--\blacktriangleleft = HORIZ)$ AIRFLOW) FD DUCT, -- = VERT DUCT), 2-HR

CEILING RETURN/EXHAUST GRILLE LINEAR DIFFUSER, CEILING OR WALL MOUNTED (FLOW ARROWS SHOWN

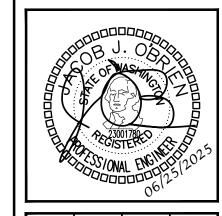
FOR NON SYMMETRICAL AIRFLOW)

PRCNC20250094

WALL SUPPLY GRILLE (SG) WALL RETURN/EXHAUST GRILLE (RG, EG)

TRANSFER GRILLE (TG), DUCT CONNECTED, WALL MOUNTED W/ OPTIONAL CFM SHOWN TRANSFER GRILLE. CEILING MOUNTED WITH FULL-SIZED LINED DUCT CONNECTION





COMMERCIAL

06/25/2025

SHEET TITLE: LEGEND, GENERAL NOTES & DRAWING INDEX

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

DRAWING INDEX

Sheet Number Sheet Title LEGEND, GENERAL NOTES, & DRAWING INDEX Χ MECHANICAL SCHEDULES & WSEC FORMS **HVAC PLAN FLOOR PLAN** Χ **HVAC PLAN ROOF PLAN** Χ M2.1

	ROOFTOP HVAC UNIT SCHEDULE																		
FOUR NO.		SEDVICE DISCULADOS		COURT NO SERVICE DISCUARDS		SUPPLY FAN		FINOVIDE		COOLING HEATING			ELECTRICAL		WEIGHT,	BASIS OF DESIGN (1)			
EQUIP NO. SERVICE	SERVICE	DISCHARGE	DISCHARGE	DISCHARGE	DISCHARGE	AIRFLOW, CFM	ESP, IN WG	MOTOR HP	100% OSA ECONOMIZERS	CAPACITY, MBH	IEER/ EER	CAPACITY @ 47F MBH	CAPACITY @ 17F MBH	COP	VOLTAGE	МСА	моср	LBS	DASIS OF DESIGN (1)
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			

NOTES: (1) PROVIDE FACTORY INSTALLED TWO STAGE COOLING MODES

(2) PROVIDE FACTORY INSTALLED ELECTRO-MECHANICAL CONTROLS

(3) PROVIDE FACTORY INSTALLED RETURN AIR SMOKE DETECTOR

(4) PROVIDE FACTORY INSTALLED ULTRA LOW-LEAK DOWNFLOW ECONOMIZER W/ DRY BULB SENSOR

(5) PROVIDE FACTORY INSTALLED NON FUSED DISCONNECT SWITCH

(6) PROVIDE FACTORY INSTALLED HINGED PANELS

(7) PROVIDE FIELD INSTALLED 14" ROOF CURB

(8) PROVIDE FIELD INSTALLED OVERFLOW SWITCH

(9) PROVIDE FIELD INSTALLED LOW AMBIENT CONTROL

(10) PROVIDE FIELD INSTALLED FILTRATION-MERV13

(11) PROVIDE FIELD INSTALLED 4H/2C COMMERCIAL 7DAY PROGRAMMABLE WI-FI CAPABLE HUM/DEHUM THERMOSTAT

(12) REFRIGERANT TO BE R-410A.

(13) FOR PRICING, CALL KATE HOWE, 425-213-1178, OR EMAIL <KATEH@AIRREPS.COM>.

	FAN SCHEDULE										
EQUIP NO.	EQUIP NO. SERVICE TYPE AIRFLOW, CFM ESP. IN WG VOLTAGE HP							WEIGHT, LBS	BASIS OF DESIGN (1)		
EF-1	BATHROOM	ROOFTOP	350	0.5	115V/1P	1/10	CONTINIOUS	30	GREENHECK CUE-090-VG		

PROVIDE BACKDRAFT DAMPERS ON EXHAUST FANS.

PUBLIC SPACES OUTSIDE AIR VENTILATION CALCULATIONS (1)									
ROOM	ROOM SQUARE FOOTAGE	ROOM OCCUPANTS	MINIMUM CFM PER SQUARE FOOT	MINIMUM CFM PER PERSON	MINIMUM REQUIRED CFM BY AREA	MINIMUM REQUIRED CFM BY PERSON	TOTAL REQUIRED OSA CFM (AREA + PEOPLE)	TOTAL OSA CFM PROVIDED	
LOBBY/ RECEPTION	308	10	0.06	5	18	50	68	100	
TRAINING AREA	378	10	0.06	20	23	200	223	250	

NOTES: (1) VENTILATION RATES ARE PER THE 2018 IMC, TABLE 403.4.2.

(2) OUTSIDE AIR TO ROOM PROVIDED VIA ENERGY RECOVERY VENTILATOR (ERV-4).

(3) OUTSIDE AIR TO ROOM PROVIDED VIA ENERGY RECOVERY VENTILATOR (ERV-5).

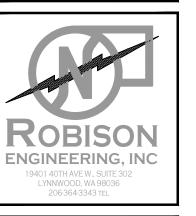
	ELECTRIC HEATERS										
EQUIP NO.	SERVICE	MOUNTING/ DISCHARGE	HEATING	ELECTRICAL	BASIS OF DESIGN (3)						
EQUIP NO.	SERVICE	MOONTING/ DISCHARGE	KW	VOLTAGE	BASIS OF DESIGN (3)						
EWH-1.0	RISER ROOM	WALL	1.0	208V/1P	(1)(2)						

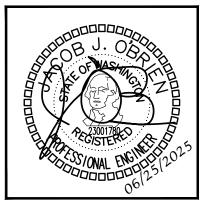
NOTES:(1) BROAN, KING, CADET OR EQUIVALENT.

(2) PROVIDE INTEGRAL THERMOSTAT.

(3) ALL ELECTRIC HEATERS TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.

Fire



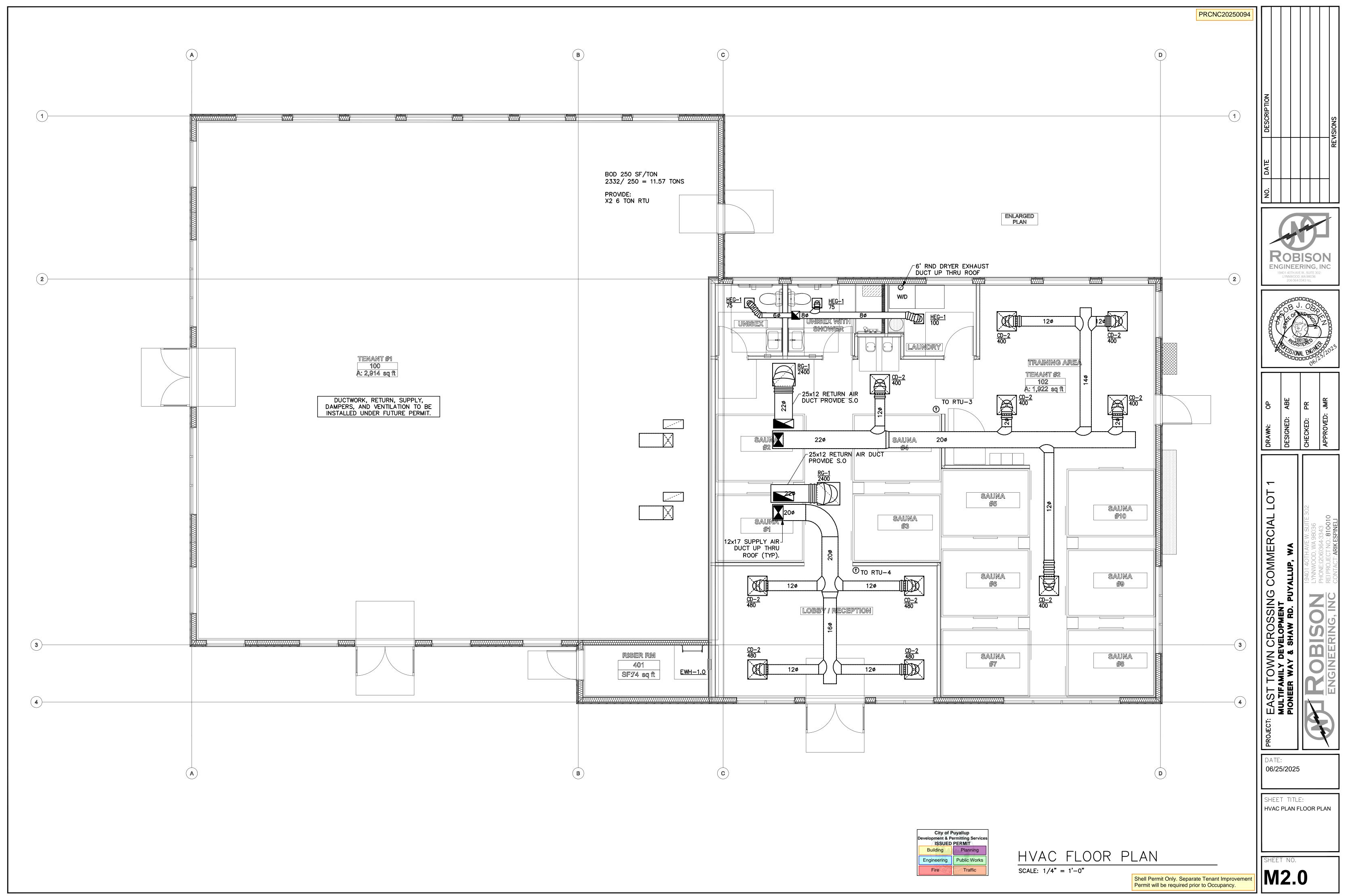


CROSSING COMMERCIAL LOT SHAW RD. PUYALLUP. WA

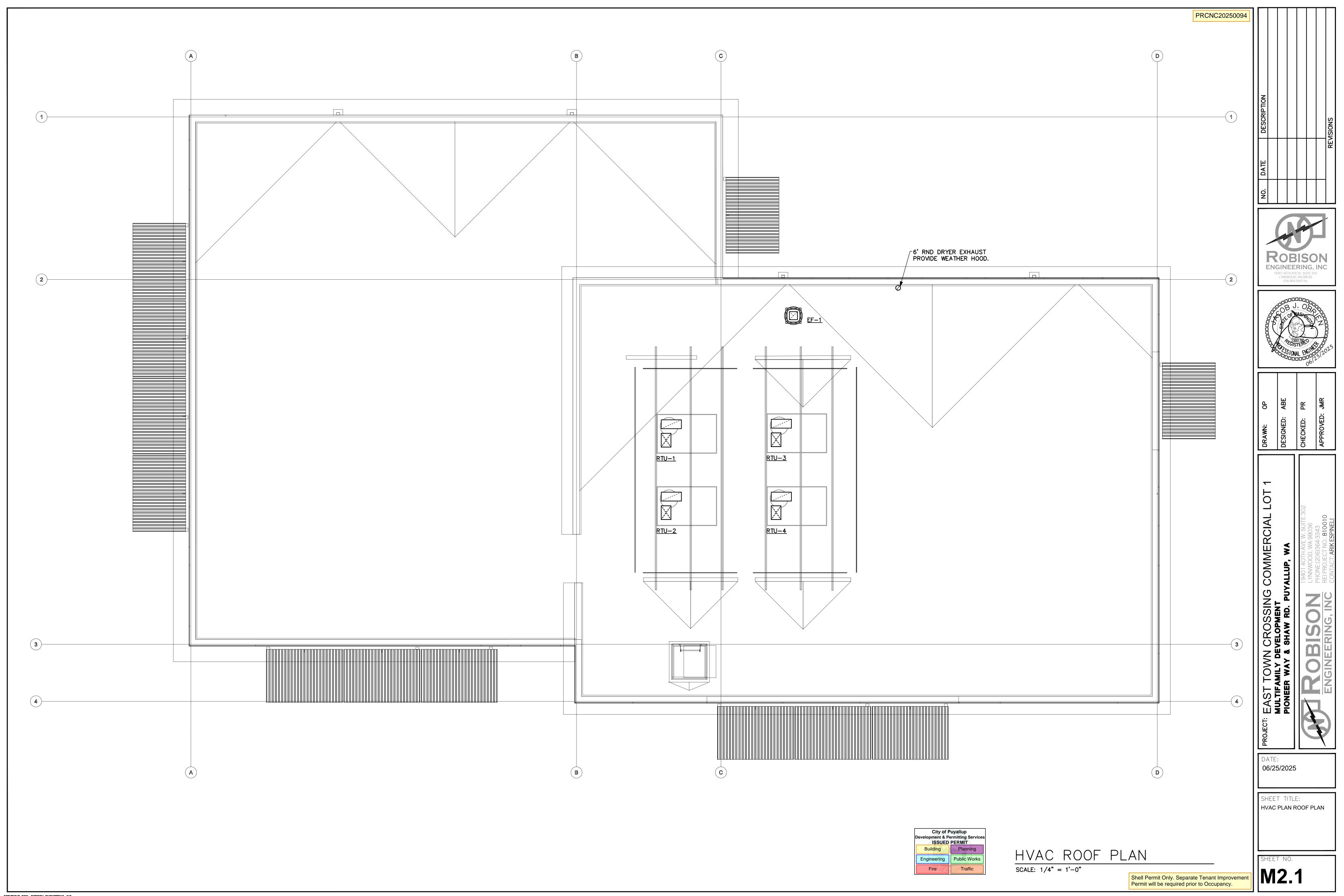
06/25/2025

MECHANICAL SCHEDULES

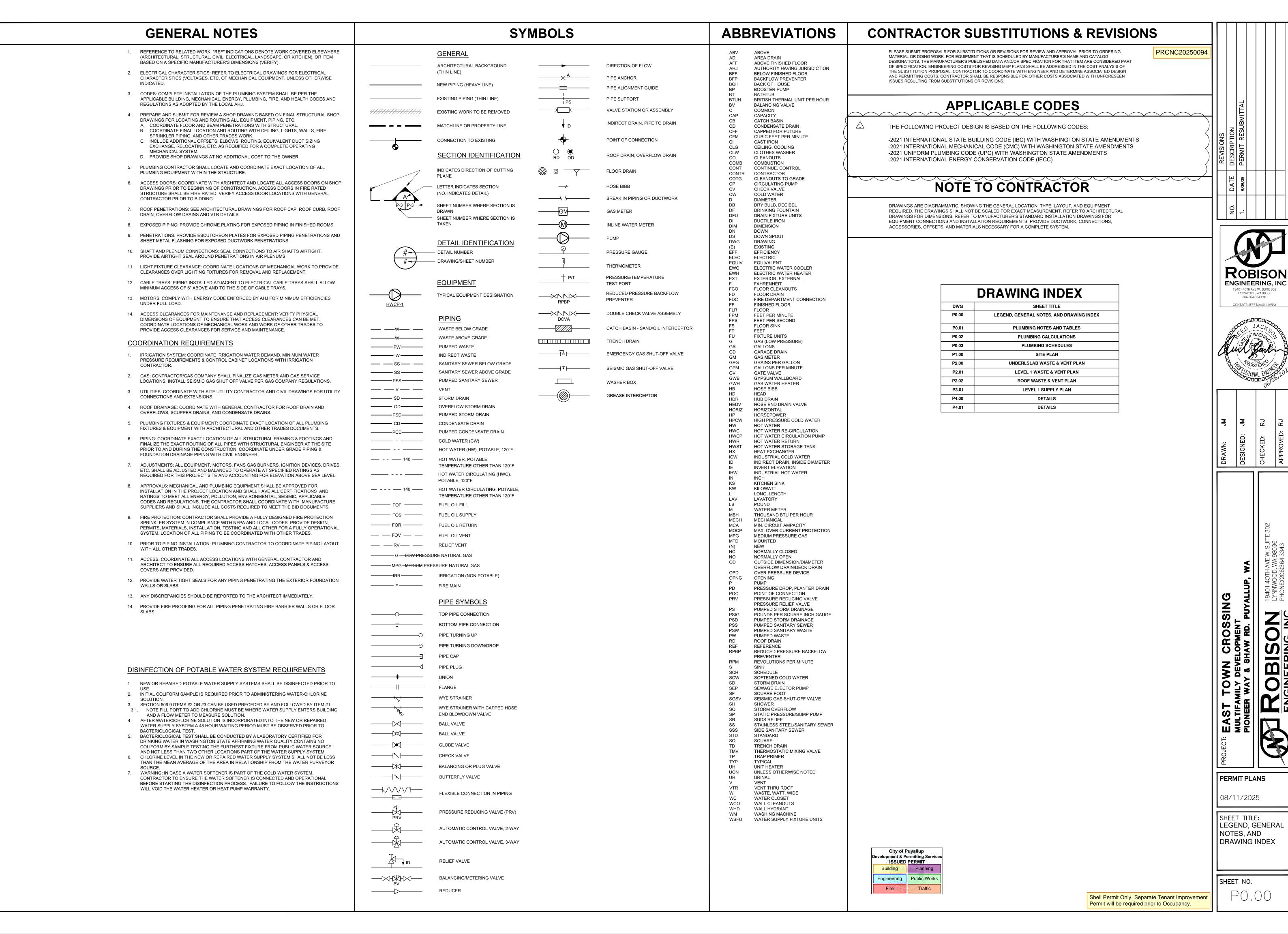
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PIPE MATERIALS									
PIPE TYPE	MATERIAL	JOINT	NOTES						
UNDERGROUND WATER SERVICE ENTRANCE PIPING	STAINLESS	THREADED, WELDED OR PROPRESS	2						
WATER DISTRIBUTION PIPING - MAIN DISTRIBUTION PIPING	SCHEDULE 80 CPVC	SOLVENT CEMENT	4						
UNDERGROUND 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						

- 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.

PIPE INSULATION SCHEDULE

THE INCOLATION CONEDCE											
SERVICE		INSULATION	VAPOR RETARDER REQUIRED	NOTES							
SERVICE	CONDUCTIVITY (Btu*in./(h*ft²*°F)	THICKNESS	VAFOR RETARDER REQUIRED	NOTES							
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							

<u>^1</u>	NOTES:
	1. 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.
(:	2. PER 2021 WSEC SECTION C404.6 (COMMERCIAL) INSULATION FOR HOT WATER PIPE SHALL HAVE A MINIMUM R-VALUE OF R-3.
\rightarrow	3. PIPING FROM WATER HEATER TO THE TERMINATION OF HEATED WATER SUPPLY PIPE SHALL BE INSULATED IN ACCORDANCE WITH TABLE C403.2.9.
(4	4. 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.
>:	5. HEAT TRACED PIPING SHALL BE INSULATED IN THE SAME MANNER AS NON HEAT TRACED PIPING OR PER THE HEAT TRACE MANUFACTURER'S INSTRUCTIONS.
(6. TUBULAR PIPING INSULATION SHALL NOT BE REQUIRED FOR THE FOLLOWING:
	6.1. THE TUBING FROM THE CONNECTION AT THE TERMINATION OF THE FIXTURE SUPPLY PIPING TO A PLUMBING FIXTURE OR PLUMBING APPLIANCE.
	6.2. VALVES, PUMPS, STRAINERS, AND THREADED UNIONS IN PIPING THAT IS 1 INCH OR LESS IN NOMINAL DIAMETER.
	6.3. PIPING FROM USER-CONTROLLED SHOWER AND BATH MIXING VALVES TO THE WATER OUTLETS. 6.4. COLD WATER PIPING OF A DEMAND RECIRCULATION WATER SYSTEM.
	6.5. TUBING FROM A HOT DRINKING-WATER HEATING UNIT TO THE WATER OUTLET.
	6.6. PIPING AT LOCATIONS WHERE A VERTICAL SUPPORT OF THE PIPING IS INSTALLED.
>	6.7. PIPING SURROUNDED BY BUILDING INSULATION WITH A THERMAL RESISTANCE (R-VALUE) OF NOT LESS THAN R-3.
	6.8. 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.
	7. 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.
	8. 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.
>	9. 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.IN/H.FT².°F) AT OPERATING TEMPERATURE.

HANGER SPA ALL SUSPENDED WATER S AS FOLLOWS PER 2021 UP		
		E SUPPORTED
		E SUPPORTED
AS FOLLOWS PER 2021 UP	C TABLE 313.3:	
	MAX. HORIZONTAL	MAX. VERTICAL
	SPACING	SPACING
CPVC PIPE ≤1"	3 FT.	10 FT.
CPVC PIPE ≥1¼"	4 FT.	10 FT.
STEEL GAS ½"	6 FT.	6 FT.
STEEL GAS ¾"-1"	8 FT.	8 FT.
STEEL GAS > 11/4"	10 FT.	10 FT.
PEX <u><</u> 1"	32 IN.	10 FT.
PEX ≥ 1¼"	4 FT.	10 FT.

REQUIRED BY ENGINEERING BASED ON BEST PRACTICE.

INSULATION IS NOT REQUIRED ON PLASTIC COLD WATER PIPING.

HANGER SPACING FOR WASTE AND VENT PIPING										
ALL SUSPENDED SANITARY AND TOLLOWS PER 2021 UPC TABLE 3		HALL BE SU	JPPORTED AS							
		X. HORIZ. PACING	MAX. VERT. SPACING							
ABS		4 FT.	10 FT.							
PVC (TYPE DWV)		4 FT.	10 FT.							
CAST-IRON HUBLESS*		RY OTHER JOINT	15 FT.							
*CAST-IRON OVER 4' SHALL BE S	SUPPORTED A	T 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					

10. 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).

11. ALL ADA P-TRAPS, HOT WATER SUPPLY TUBING, AND SHUT-OFF COCKS SHALL BE PROTECTED WITH APPROVED COVERS TO PREVENT SCALDING.

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
- 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

- 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 CONNECTION SCHEDULE ON PLANS.
- 2. HOT AND COLD: WATER PIPING CONNECTION TO EACH FIXTURE SHALL BE 31. COLD WATER ON THE RIGHT HAND SIDE AND HOT WATER ON THE LEFT HAND
- 3. HOT WATER: NON-CIRCULATING HOT WATER PIPE SHALL NOT EXCEED 10' UNLESS OTHERWISE SHOWN ON DRAWINGS.
- 4. 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 34. DIELECTRIC UNIONS: PROVIDE AT CONNECTIONS OF DISSIMILAR PIPE. LOCAL JURISDICTIONS. CLEANOUTS SHALL BE LOCATED IN WALLS/FLOORS WHERE THEY ARE NOT HIGHLY VISIBLE. FLOOR CLEANOUTS IN CARPETED 35. REFRIGERANT PIPING: PROVIDE SIZING & INSTALLATION IN STRICT 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.
- 6. 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 38. IF NEEDED, PROVIDE VACUUM BREAKERS AT ALL HOSE BIBBS.
- 8. TUB SPOUTS SHALL BE THREADED (NO PUSH-ON FITTINGS).
- 9. TRAP ARMS: PROVIDE TRAP ARMS SUCH THAT THE MAXIMUM LENGTH WILL NOT EXCEED CODE REQUIREMENTS.
- 10. ADA INSULATION: AT PLUMBING PIPING EXPOSED UNDER LAVATORIES. INSULATE THE EXPOSED PIPING AND TRAPS WITH PRODUCT SPECIFICALLY 41. DESIGNED FOR THIS APPLICATION MEETING ADA REQUIREMENTS. PROVIDE HANDI-LAV GUARD OR EQUIVALENT. OFFSET P-TRAPS TO CLEAR WHEELCHAIR
- 11. GAS EQUIPMENT: GAS EQUIPMENT SHALL BE INSTALLED PER EQUIPMENT LISTINGS, APPLICABLE SFGC, SPC, LOCAL CODES & NFPA STANDARDS.
- 12. 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.
- 13. GAS PIPING CONNECTIONS TO WATER HEATERS, BOILERS AND FURNACES SHALL HAVE DIRT LEGS AND UNIONS PROVIDED ON APPLIANCE SIDE OF SHUTOFF VALVE.
- SMALLER SHALL BE ASSEMBLED USING THREAD SEALANT SUITABLE FOR NATURAL GAS. GAS PIPING LARGER THAN 2" SHALL HAVE WELDED FITTINGS.
- 15. 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.
- 16. 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.
- 17. GAS PIPE SUPPORT: FUEL LINES SHALL BE SUPPORTED OR STRAPPED, AND SHALL BE PLUMB AND SQUARE.
- 18. GAS PIPING ON ROOFTOPS SHALL BE SUPPORTED AND ANCHORED TO THE
- 19. GAS PIPING SHALL NOT BE BURIED UNDER A BUILDING, SLAB OR OTHER
- 20. GAS PIPING PROTECTIVE COATING: PAINT ALL EXTERIOR EXPOSED GAS PIPING WITH TWO COATS OF RUST INHIBITIVE PAINT. COLOR: GRAY.
- 21. 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.
- 22. 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.
- 24. THROUGHOUT THE PROJECT PROVIDE BALL VALVES. GATE VALVES SHALL NOT BE USED. NO EXCEPTIONS.

SERVING HANDICAPPED COUNTER TOP LAVATORIES SHALL BE INSULATED.

- 25. 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. 26. DISASSEMBLY PROVISIONS: PROVIDE UNIONS OR FLANGES AT PIPING CONNECTIONS TO EQUIPMENT. COILS, TRAPS, CONTROL VALVES, AND OTHER
- COMPONENTS TO ALLOW DISASSEMBLY FOR MAINTENANCE. 27. REDUCERS: PROVIDE AS REQUIRED FROM LINE PIPE SIZE TO EQUIPMENT, TRAP, COIL, AND CONTROL VALVE CONNECTION SIZES.

opment & Permitting Service ISSUED PERMIT

Engineering Public Works

Building

Fire

Planning

Traffic

- CONNECTIONS: PROVIDE PLUMBING FIXTURE CONNECTIONS TO BUILDING 28. VALVE TAGS: PROVIDE VALVE TAGS PER SPECIFICATIONS TO IDENTIFY VALVE AND THE AREA IT SERVES.
 - 29. OFFSETS: PROVIDE FOR BRANCH LINES TO EQUIPMENT.
- AS RECOMMENDED BY THE MANUFACTURERS. REFER TO PLUMBING FIXTURE 30. ALL TEMPERATURE MIXING VALVES SHALL COMPLY WITH ASSE-1070 SAFETY
 - PROVIDE PIPE MARKER WITH DIRECTION OF FLOW. LABEL "NON-POTABLE WATER DO NOT DRINK" CLEARLY ON NON-POTABLE WATER PIPING.
 - 32. PROVIDE EXPANSION LOOPS/EXPANSION JOINTS IN PIPING PER 2021 UPC

TABLE 313.3 AND MANUFACTURER INSTALLATION INSTRUCTIONS.

- 33. PROVIDE APPROVED PIPE HANGERS & PIPE SUPPORTS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND 2021 UPC TABLES 313.3 & 313.6. SUBMIT FOR APPROVAL.

- 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.

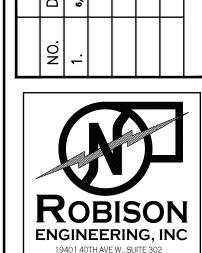
ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

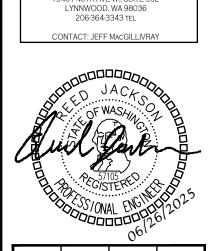
- 39. FLOOR DRAINS OR SIMILAR TRAPS DIRECTLY CONNECTED TO THE DRAINAGE AND SUBJECT TO INFREQUENT USE SHALL BE PROVIDED WITH AN APPROVED AUTOMATIC MEANS OF MAINTAINING THEIR WATER SEALS IN ACCORDANCE WITH 2021 UPC 1007.0.
- 40. INSULATION MATERIAL SHALL MEET CITY OF PUYALLUP QUALITY STANDARDS.
- ALL PIPING AND DUCTWORK SHALL BE INSULATED CONSISTENT WITH THE 2021 WASHINGTON STATE ENERGY CODE.
- BUILDING DRAIN AND VENT PIPING MATERIALS SHALL COMPLY WITH 2021 UPC
- ALL SANITARY SYSTEM MATERIAL SHALL BE LISTED BY AN APPROVED LISTING
- 44. 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
- WATER HEATERS SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENTS DUE TO SEISMIC MOTION PER 2021 UMC 507.2.
- 14. GAS PIPING INSTALLATION: STEEL OR MALLEABLE IRON FUEL LINES 2" OR 46. MATERIAL EXPOSED WITHIN A DUCT OR PLENUM SHALL COMPLY WITH 2021 IMC
 - 47. HVAC EQUIPMENT AND WATER HEATERS SHALL COMPLY WITH 2021 IMC
 - 48. BOILERS SHALL COMPLY WITH ALL THE REQUIREMENTS OF 2021 UPC 505.4.
 - 49. 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.
 - 54. 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 23. P-TRAPS: ALL EXPOSED P-TRAPS SHALL BE CHROME-PLATED BRASS. P-TRAPS IRRIGATION SYSTEM
 - FIRE PROTECTION SYSTEM CHEMICAL TREATMENT SYSTEM
 - SOAP/CHEMICAL DISPENSER SYSTEM COMMERCIAL WASHER

PRCNC20250094





NIS

PERMIT PLANS

08/11/2025

SHEET TITLE: PLUMBING NOTES AND TABLES

SHEET NO.

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

PLUMBING CALCULATIONS			
	DOMESTIC WATER PRESSURE CALCULATIONS	PRESSURE CHANGE (PSI)	RESIDUAL PRESSURE (PSI)
	BASED ON 2021 UPC APPENDIX A	, ,	
	(PVC) WATER ENTRY TO BOOSTER PUMP		T
	STREET PRESSURE, PSI, PER CALL WITH PUYALLUP WATER DIVISION, PRESSURE RANGE IS 55-60 PSI.		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.		
	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 SUI	-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 11		
	FITTING ALLOWANCE, FEET 27.		
	AVERAGE FRICTION LOSS FACTOR, PSI/100'		
	PIPING FRICTION LOSS	-9.625	66.9
	MIN. PRESSURE AT FURTHERST UNIT SUB-METER		66.9
	(CPVC) FURTHEST ANTICIPATED FIXTURE IN	 []	

EQUIPMENT LOSSES PSI TENANT SUB-METER

PIPING FRICTION LOSS

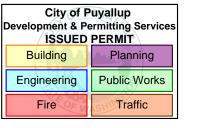
PEX PIPING FRICTION LOSSES
PIPING SYSTEM LENGTH, FEET
FITTING ALLOWANCE, FEET

ZONE FRICTION LOSS FACTOR, PSI/100'

MINIMUM PRESSURE AT FURTHEST FIXTURE, PSI

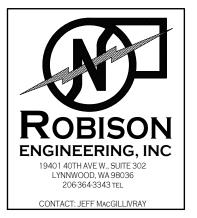
		FIXTU	RE UN	IT CAL	CULA	TIONS	S - LOT 1				
	(CALCULATI	ONS BASI	ED ON 2021	UPC TA	BLES A10	03.1 AND 702.1.				
PUBLIC SPACES / MISC.											
FIXTURE	FIXTURE UNITS				FLOOR		TOTAL QTY	TOTAL FIXTURE UNITS			
FIXTURE	TOTAL	CW	HW	W/V	1	R	OF FIXTURES	SERVICE	CW ONLY	HW ONLY	W/V ONLY
SUITE 1 COMMERCIAL	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							
DOEMSTIC WATER PEAK FLOW:	34.2 GPM										
REQUIRED SERVICE SIZES IN BUILDING:	DOMESTIC WATER				s	SEWER SIZE					
_	SER	SERVICE SIZE: 2"		4"							
							1/4" PER FT				

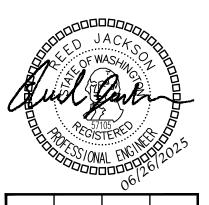
7.0



NO. DATE DESCRIPTION

1. 6/26/25 PERMIT RESUBMITTAL





DRAWN:	MU	
DESIGNED:	MU	
снескер:	RJ	00.
APPROVED: RJ	RJ	

1 40TH AVE W. SUITE 302 WOOD, WA 98036

DEVELOPMENT

NY & SHAW RD. PUYALLUP, WA

DBISON

LYNNWOOD, WA

LYNNWOOD,

MULTIFAMILY DEVELO
PIONEER WAY & SHA

PERMIT PLANS

SHEET TITLE:

SHEET TITLE:
PLUMBING
CALCULATIONS

SHEET NO.

P0.02

61.9

53.2



	SUPPLY PIPE SIZING SCHEDULE - CPVC											
								FRICTION L	OSS FACTOR:	7.0 P	SI/100 FT	
PIPE SIZE	COL	WATER, FLU	SH TANK	COLD	WATER, FLUS	SH 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	

FIXTURE SCHEDULE														
PLAN MARK	FIXTURE TYPE -	SERVICE SIZE - INCHES				LOCATION	FINISH	MANUFACTURER	BASIS OF DESIGN	FLOW RATE,	NOTES			
		CW	HW	W	V	200,111011			MODEL	GPM				
	SHOWER						TBD	TBD	TBD					
-	IN-WALL VALVE	1/2	1/2	2	1-1/2	2 PER DWGS.	TBD	TBD	TBD	1.8 GPM	1-5,7			
	TRIM KIT						TBD	TBD	TBD					
11/4	LAVATORY	4/0	1/0	4.4/0	4.4/0	DED DWGG	TBD	TBD	TBD	0.5.0004	4.5			
LV-1	FAUCET	1/2	1/2	1-1/2	1-1/2	PER DWGS.	TBD	TBD	TBD	0.5 GPM	1-5			
WO 4	WATER CLOSET (VALVE)	4 4/4"		0	1				DED DWGG	TBD	TBD	TBD	4.00.005	4.0
WC-1	SEAT	1 1/4"		3	2	PER DWGS.	TBD	TBD	TBD	1.28 GPF	1-6			
WB-1	WASHER BOX	3/4	3/4	2	1-1/2	PER DWGS.	TBD	TBD	TBD	N/A	1-5			
HB-1	WALL HYDRANT	3/4				PER DWGS.	N/A	WOODFORD	B65	N/A	1-3,5,8			

- REFER TO ARCH PLANS FOR MOUNTING HEIGHT.
- CONTRACTOR SHALL CONFIRM MAKE, MODEL, AND FINISH OF ALL FIXTURES WITH OWNER, ARCHITECT, AND INTERIOR DESIGNER PRIOR TO ORDERING.
- PROVIDE RED/HOT AND BLUE/COLD WATER INDICATORS TO ALL FIXTURES.
- ALL FIXTURE P-TRAPS SHALL BE CHROME-PLATED BRASS.
- PROVIDE DAHL 1/4-TURN BALL VALVE ANGLE STOPS WITH BRAIDED STAINLESS STEEL FLEX CONNECTORS AT HOT AND COLD WATER SUPPLY TO EACH FIXTURE EXCEPT SHOWERS AND BATHS.
- PROVIDE SCREWDRIVER STOPS AT SHOWERS AND BATHS. 6. FLUSH TRIGGER SHALL BE ON WIDE SIDE OF ROOM.
- SHOWERS AND TUB-SHOWER COMBINATIONS SHALL BE PROVIDED WITH MIXING VALVES PER UPC SECTION 408.3.
- 8. PROVIDE LOCKABLE BOX.

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

1. INSTALL IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS.

2. ALL DOMESTIC WATER EQUIPMENT SHALL BE NSF-61 LISTED.

					PACKAGE	D BOOSTER PU	MP				
	QUIP 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
E	3P-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.
- 2. PROVIDE ALL REQUIRED VALVES, PIPING, CONTROLS, ETC. FOR A COMPLETE SYSTEM.
- 3. PROVIDE VFD'S FOR EACH PUMP.
- 4. 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.
- 5. 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

1. PROVIDE TRAFFIC RATED COVER AND CLEAN OUT OUTSIDE OF INTERCEPTOR.

2. 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 need, so the 1,588 gallon interceptor listed herein would be adequately sized.

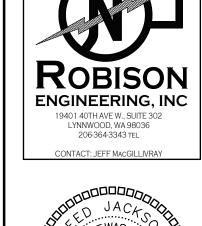
ELECTRIC WATER HEATER									
EQUIP NO.	SERVICE	GPH RECOVERY AT STORAGE (GAL)	STORAGE	INLET/OUTLET CONNECTION	OPERATING WEIGHT (LBS)	ELECTRICAL		BASIS OF DESIGN	NOTES
			(GAL)			VOLTAGE	HEATER KW	BASIS OF DESIGN	NOILS
WH-1	HOT WATER	49	30	3/4"	470	208V/3P	12	A.O. SMITH	1,2

- 1. ELECTRICAL REQUIREMENTS ARE BASED ON NON-SIMULTANEOUS OPERATION.
- 2. FOR WATER HEATER PIPING DIAGRAM SEE DETAIL 1/P4.0.

HOT WATER CIRCULATION PUMP										
EQUIP NO.	SERVICE	TYPE	FLOW, GPM	HEAD, FT	PUMP RPM	ELECTRIC VOLTAGE	CAL HP	WEIGHT, LBS	BASIS OF DESIGN	NOTES
HWCP-1	HOT WATER	INLINE	0.5	2	VARIABLE	208/1P	0.1	40	ECOCIRC 20-18	1,2

NOTES:

- 1. STAINLESS STEEL, SUITABLE FOR POTABLE WATER APPLICATION.
- 2. ALL DOMESTIC WATER EQUIPMENT SHALL BE NSF-61 LISTED.



PRCNC20250094



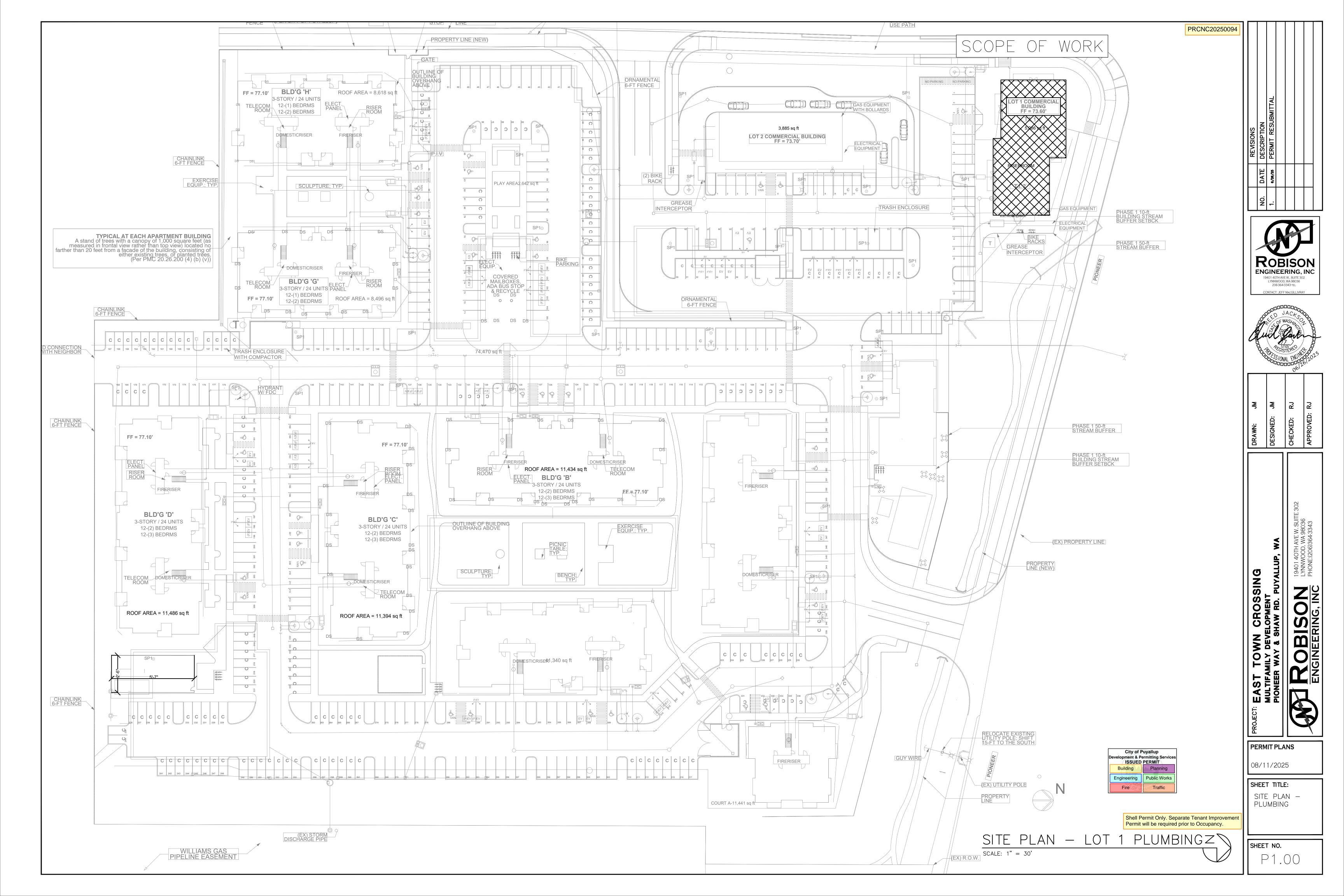
Ψ	MC	RJ	RJ
DRAWN:	DESIGNED:	снескер:	APPROVED: RJ

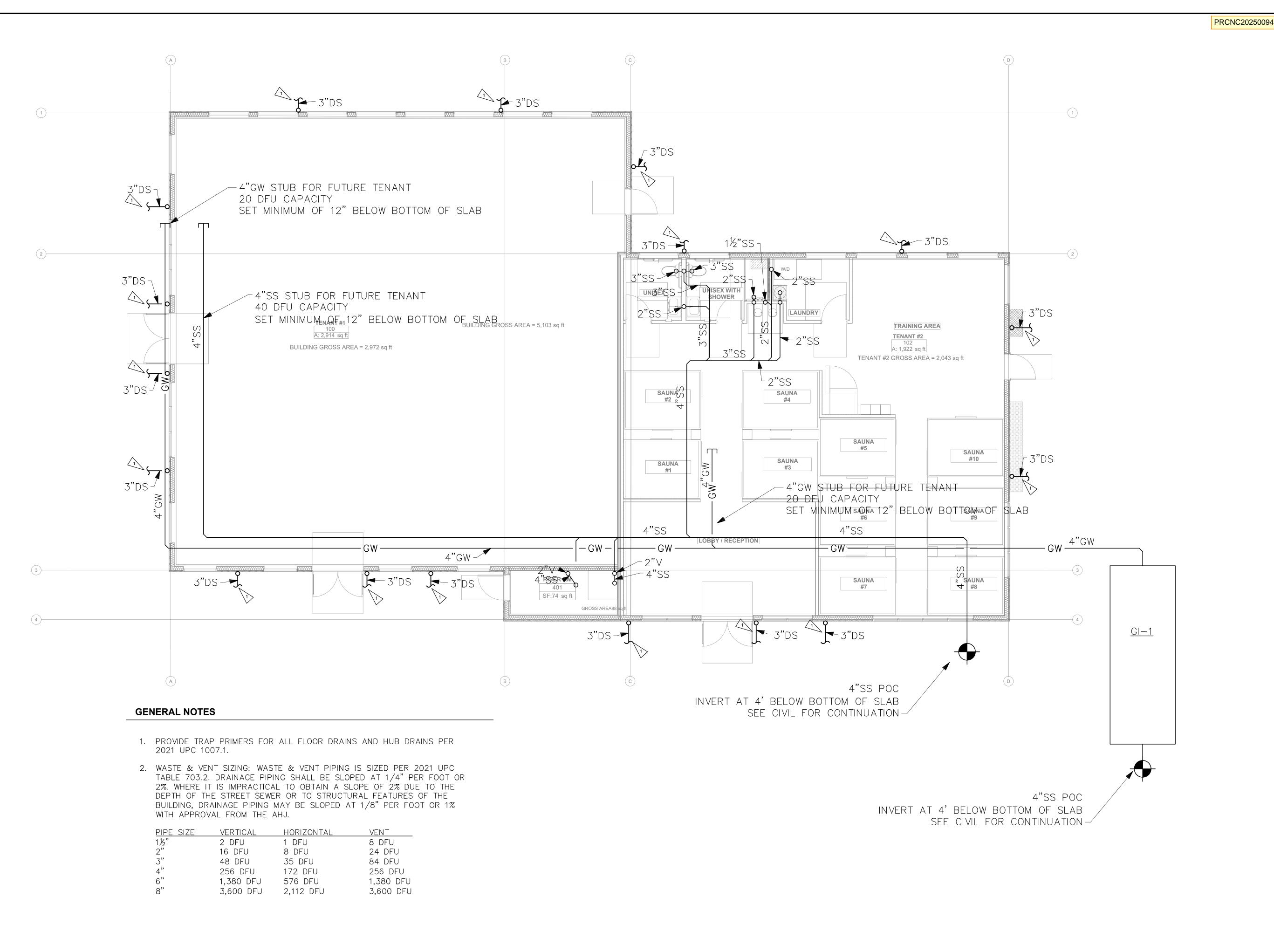
SHEET TITLE: SCHEDULES

08/11/2025

SHEET NO.

City of Puyallup elopment & Permitting Services Engineering Public Works Fire



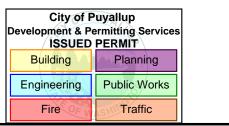


FLAG NOTES #

1. 3"DOWNSPOUT - SEE CIVIL FOR CONTINUATION.

UNDERSLAB WASTE & VENT PLAN

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





SHEET NO.

PLAN

CROSSING LOPMENT HAW RD. PUYALL

P2.00

WASTE & VENT

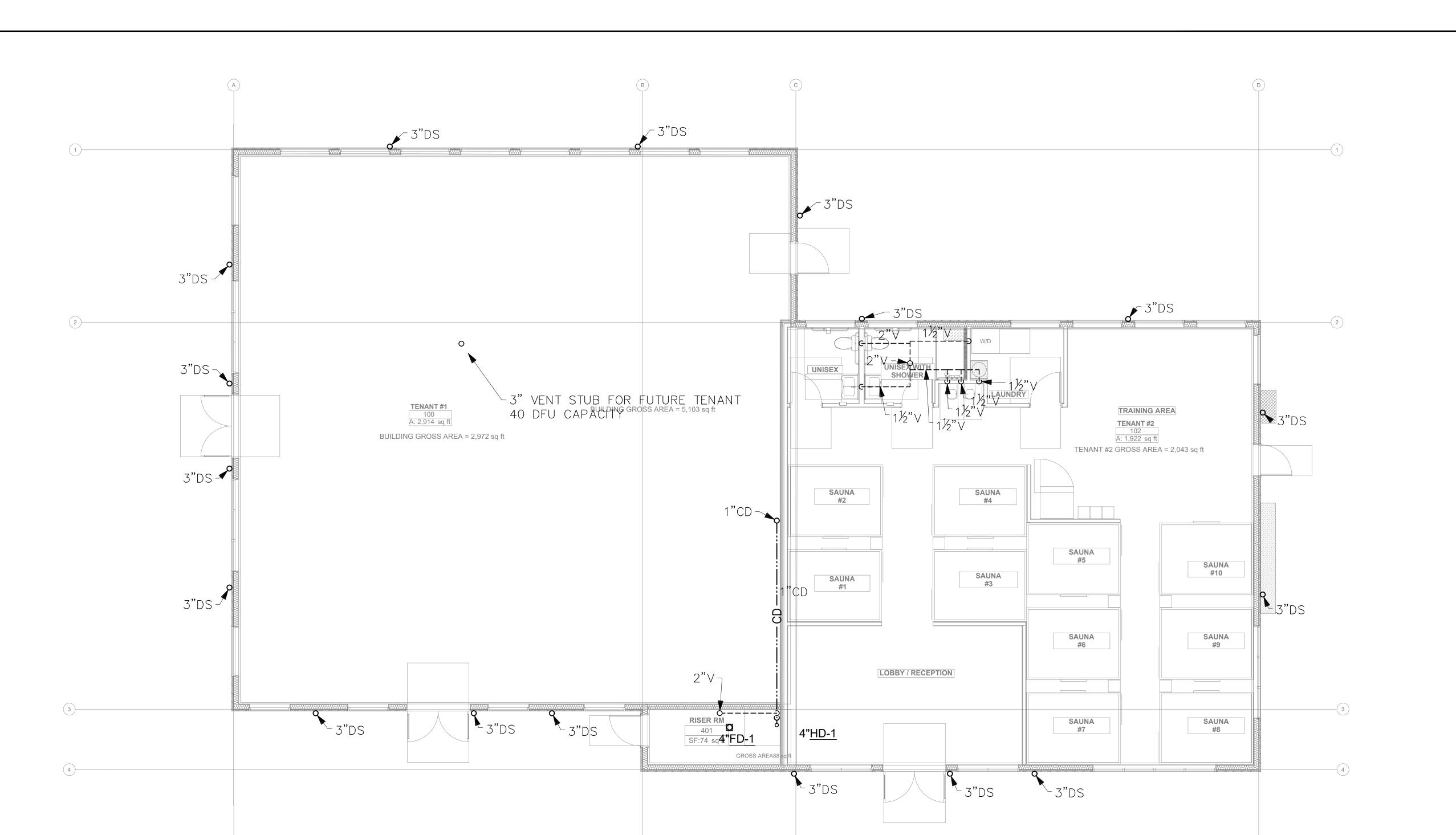
PERMIT PLANS

08/11/2025

SHEET TITLE: LOT 1 — UNDERSLAB

ROBISON

ENGINEERING, INC
19401 40TH AVE W., SUITE 302
LYNNWOOD, WA 98036
206:364:3343 TEL

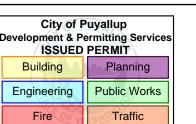


GENERAL NOTES

- 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.

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	I
6" 1,380 DFU 576 DFU 1,380 DF	. U
8" 3,600 DFU 2,112 DFU 3,600 D	-U







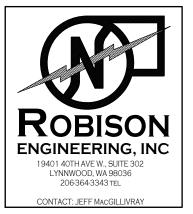
SHEET NO.

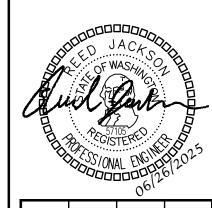
Shell Permit Only. Separate Tenant Improvement Permit will be required prior to Occupancy.

NO. DATE DESCRIPTION

1. 6/26/25 PERMIT RESUBMITTAL

PRCNC20250094





≥	M	RJ	RJ
DRAWN:	DESIGNED:	снескер:	APPROVED: RJ

40TH AVE W. SUITE 302
MOOD, WA 98036

TOWN CROSSING
MILY DEVELOPMENT

NAY & SHAW RD. PUYALLUP,

NAY & SHAW RD. PUYALLUP,

NAY & SHAW RD. PUYALLUP,

SHONE:CENTRE STANG, INC.

PIONEER WAY

ROOF

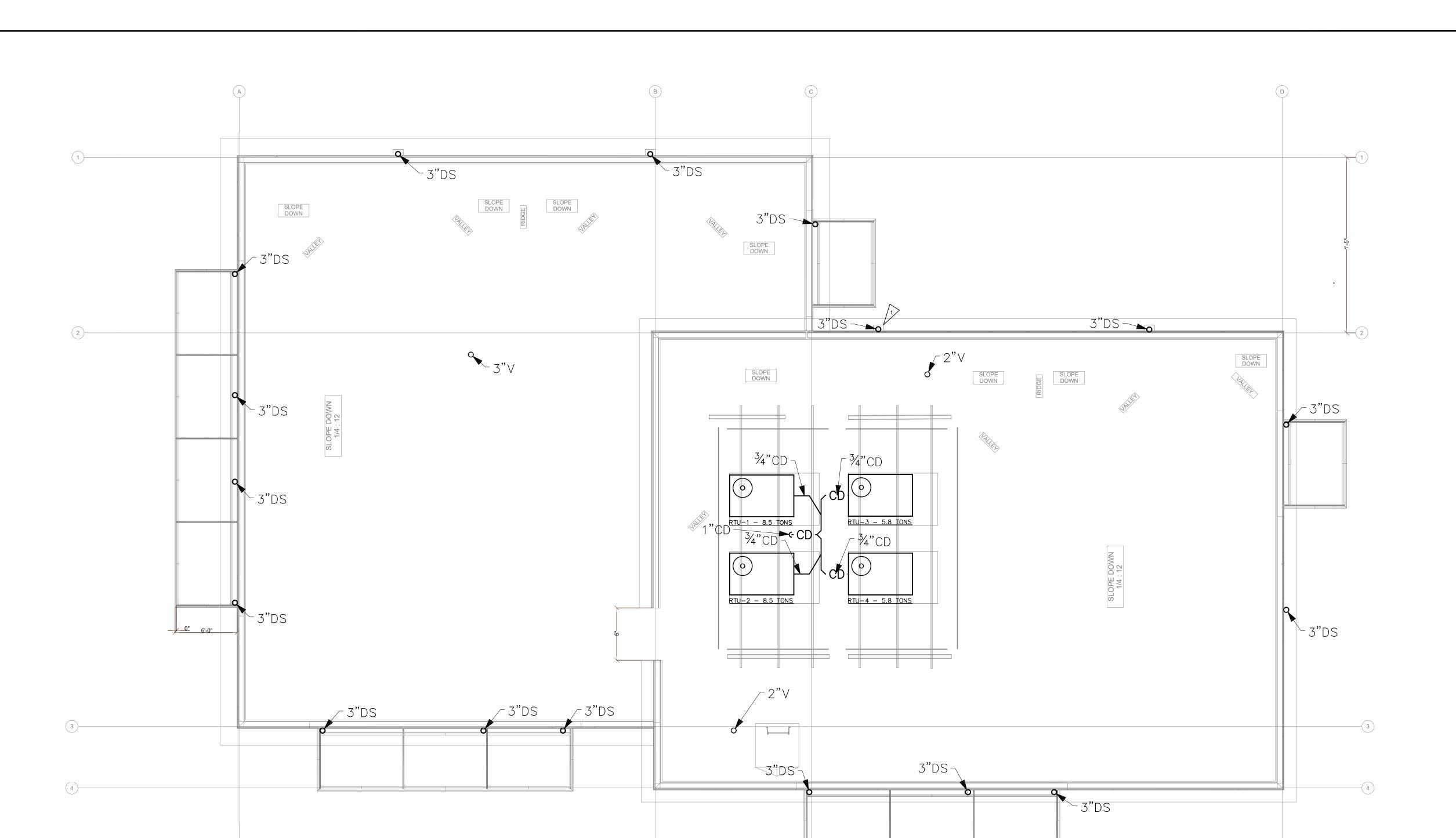
ENGINE

PERMIT PLANS

08/11/2025

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

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.

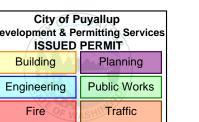
PIPE SIZE	VERTICAL	HORIZONTAL	VENT
1½"	2 DFU	1 DFU	8 DFU
2"	16 DFU	8 DFU	24 DFU
3"	48 DFU	35 DFU	84 DFU
4"	256 DFU	172 DFU	256 DFU
6"	1,380 DFU	576 DFU	1,380 DFU
8"	3,600 DFU	2,112 DFU	3,600 DFU

DOWNSPOUTS LOCATIONS COORDINATED WITH ARCH.

ROOF WASTE & VENT PLAN

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

City of Puyallup

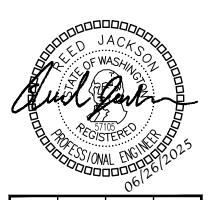


NO. DATE DESCRIPTION

1. 6/26/25 PERMIT RESUBMITTAL

PRCNC20250094





MC	RJ	RJ
DESIGNED:	CHECKED:	APPROVED: RJ

N. SUITE 302)8036

19401 40TH AVE W. SUITE LYNNWOOD, WA 98036

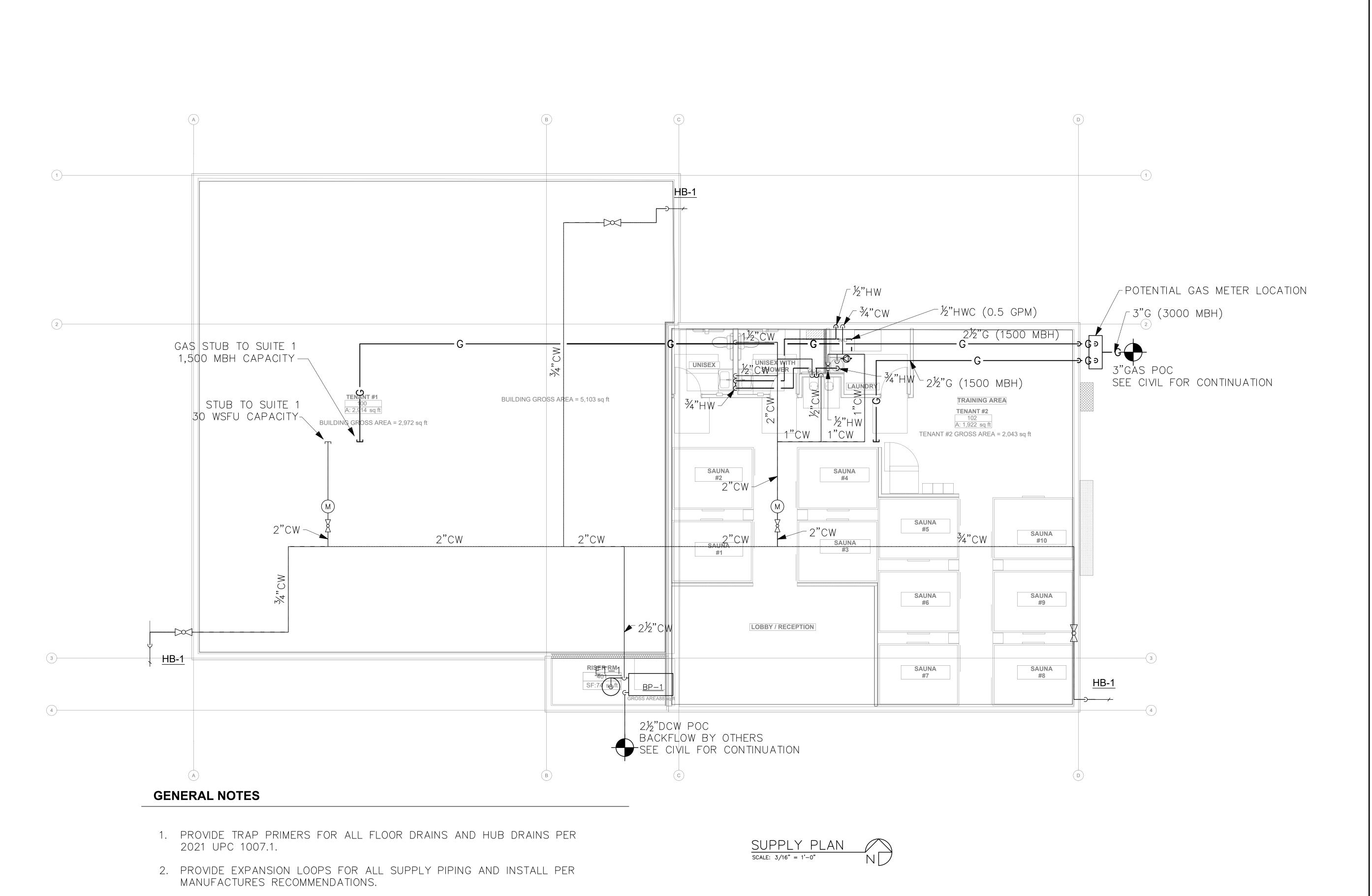
IFAMILY DEVELOPMENT
SER WAY & SHAW RD. PUYALLU
ROBERT STATEMENT
PHONE THE PRINCE INC.
PHONE THE PRINCE INC.

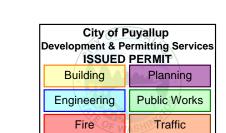
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PERMIT PLANS

08/11/2025

SHEET TITLE: LOT 1 — ROOF WASTE & VENT PLAN





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

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

PRCNC20250094

ST TOWN CROSSING
TIFAMILY DEVELOPMENT
NEER WAY & SHAW RD. PUYALLUP,
READ BOOK 19401 401
ROBISON 19401 401
PHONE: 20

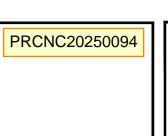
FRMIT PLANS

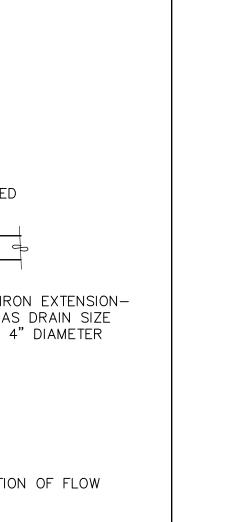
PERMIT PLANS

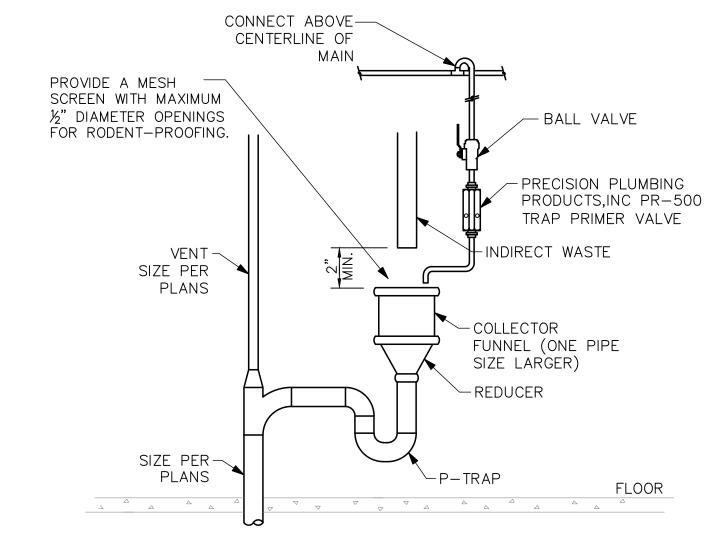
08/11/2025

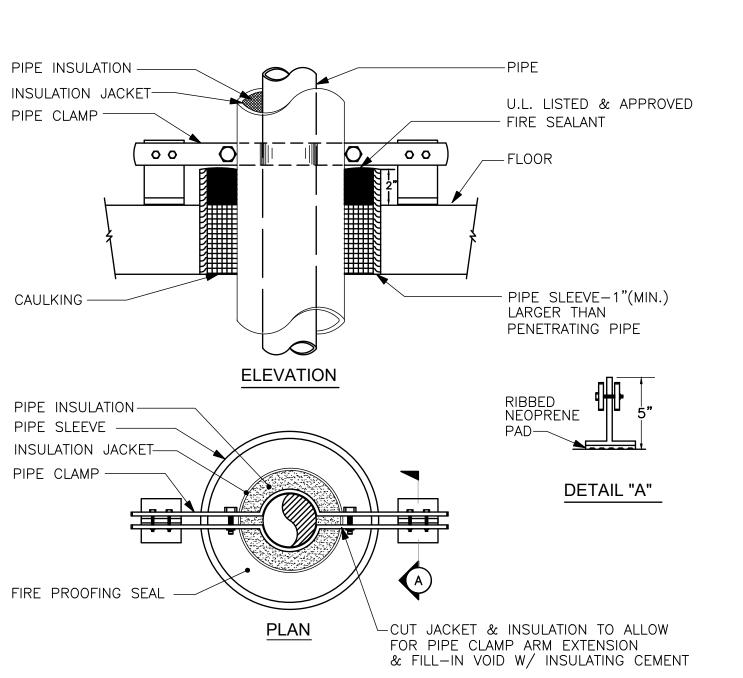
SHEET TITLE:

LOT 1 — FLOOR SUPPLY PLAN









RISER PIPE SUPPORT

DETAIL

SCALE: NONE

\P4.00,



P4.00/

\P4.00

Shell Permit Only. Separate Tenant Improvement

Permit will be required prior to Occupancy.

ROBISON

ENGINEERING, INC

19401 40TH AVE W., SUITE 302

LYNNWOOD, WA 98036 206-364-3343 TEL

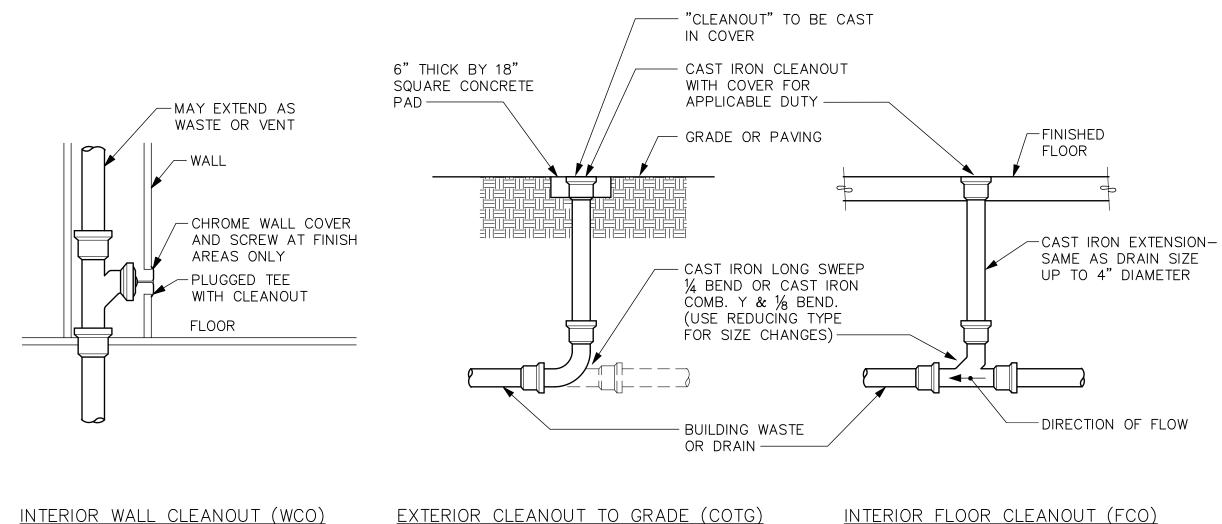
CROSSING LOPMENT HAW RD. PUYALL

PERMIT PLANS

08/11/2025

SHEET TITLE: DETAILS

SHEET NO.



(LIGHT TRAFFIC AREA)

<u>CLEANOUTS</u>

TERMINATE SLEEVE FLUSH WITH

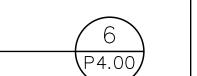
PIPE AND INSULATION (IF APPLICABLE) CENTERED IN SLEEVE —

FIRESTOP SLEEVE AT FIRE-RATED WALLS-

FINISHED WALL SURFACE

DETAIL

SCALE: NONE



FLUSH AGAINST WALL AND OF SIZE TO COMPLETELY COVER OPENING CONCEALED PIPING — PIPING EXPOSED TO VIEW INTERIOR WALLS -SEALING AND ANCHORING COLLAR FOR CONCRETE

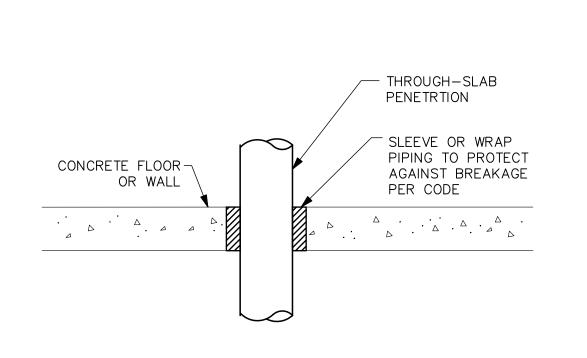
PASS PIPE AND INSULATION
(IF APPLICABLE) WITH MIN 1/4"
ANNULAR SPACE

FINISHED ESCUTCHEON PLATE

GALV STEEL PIPE SLEEVE WALLS OF SIZE TO PASS PIPE AND INSULATION WITH -SEAL ENDS OF SLEEVE WITH MIN 1/2" ANNULAR SPACE-EXPANDING FOAM WEATHER-TIGHT SEALANT INSULATE AS APPLICABLE, EXTEND OUTDOOR JACKETING PIPE AND INSULATION (IF APPLICABLE) THROUGH PENETRATION AND CENTERED IN SLEEVE TERMINATE NEATLY 3" FROM INSIDE FACE OF WALL--COAT EXTERIOR SURFACES OF SLEEVE WITH COAL TAR OUTDOOR ──── INDOOR EXTERIOR WALLS ABOVE GRADE

PIPE SLEEVES THROUGH WALLS

DETAIL P4.00 SCALE: NONE



PIPE SLAB PENETRATION

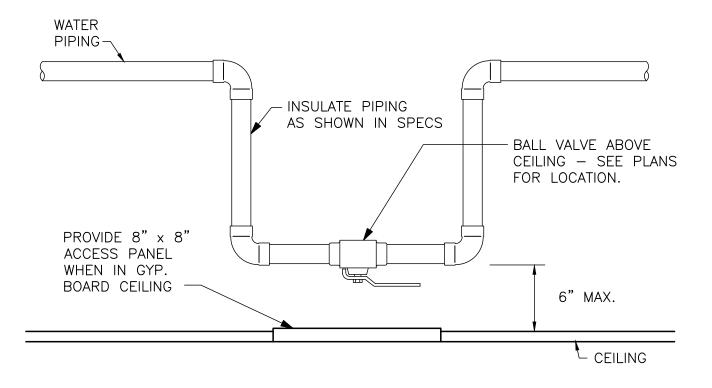
HUB DRAIN

DETAIL

SCALE: NONE

DETAIL

SCALE: NONE

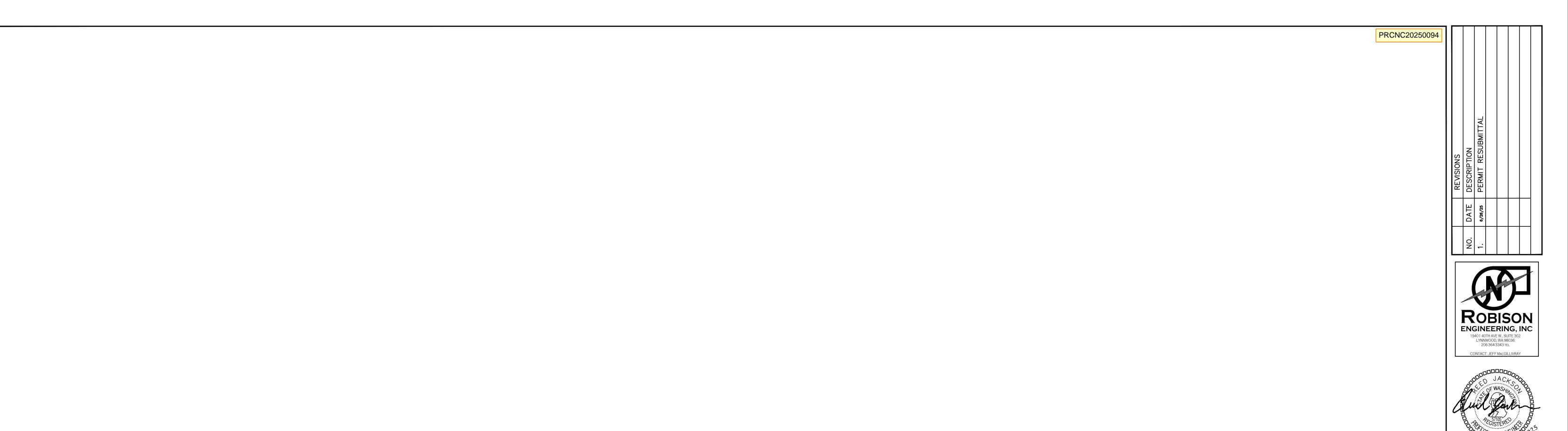


TYPICAL VALVE PLACEMENT

DETAIL SCALE: NONE

City of Puyallup elopment & Permitting Services ISSUED PERMIT Planning Building Engineering Public Works Traffic Fire





PROPERTY

WATERPROOF FLASHING

- PARAPET WALL

SEE FLOOR PLANS FOR DOWNSPOUT ROUTING.

SLOPE ROOF TOWARDS DOWNSPOUT

P4.01

OPERABLE WINDOW —/
DOOR, OPENING
AIR INTAKE, OR
VENT SHAFT

VENT TERMINATION

DETAIL

SCALE: NONE

OPERABLE WINDOW— DOOR, OPENING AIR INTAKE, OR VENT SHAFT

SCUPPER THROUGH WALL -

DOWNSPOUT, SIZE PER FLOOR PLANS —

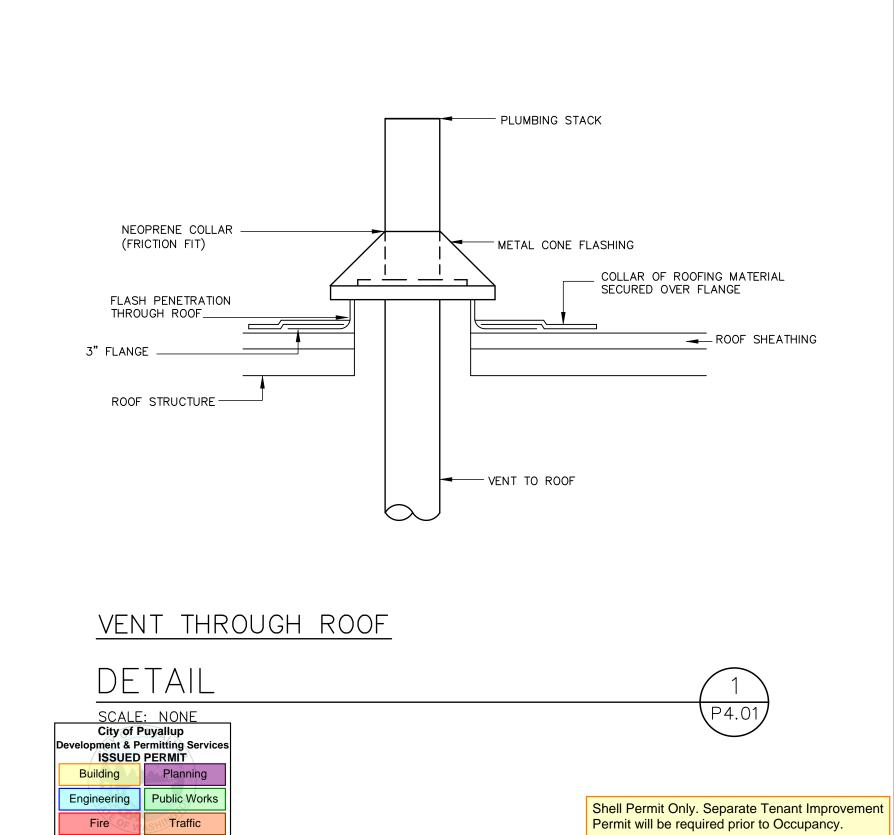
VENT TERMINATION

DETAIL

SCALE: NONE

CONDUCTOR HEAD

BUILT-IN OVERFLOW





		00,	
M	MΩ	RJ	RJ
DRAWN:	DESIGNED:	CHECKED:	APPROVED: RJ

TOWN CROSSING
MILY DEVELOPMENT
WAY & SHAW RD. PUYALLUP, WA

PERMIT PLANS 08/11/2025

SHEET TITLE: DETAILS

ABBREVIATIONS ALTERNATING CURRENT, ABOVE COUNTER ABOVE FINISHED FLOOR AMPS INTERRUPTING CAPACITY ALUMINUM AMPERE AMERICAN WIRE GAUGE BREAKER BUILDING COIL or CONDUIT CIRCUIT CONDUIT/RACEWAY ONLY

AWG BKR BLDG CKT CO CURRENT TRANSFORMER COPPER CW COOL WHITE DIMMER DED DEDICATED EC

ELECTRICAL CONTRACTOR EXHAUST FAN **ELEC** ELECTRICAL EMT ELECTRICAL METALLIC TUBING **EQUIP EQUIPMENT** EXIST EXISTING FAA FIRE ALARM ANNUNCIATOR FACP FIRE ALARM CONTROL PANEL

FLUOR **FLUORESCENT** GC GENERAL CONRACTOR GFCI GROUND FAULT CIRCUIT INTERRUPTER GND GROUND GRS GALVANIZED RIGID STEEL HIGH INTENSITY DISCHARGE HID HORSEPOWER ISOLATED GROUND

KCMIL THOUSAND CIRCULAR MILLS KVA KILOVOLT AMPERES ΚW KILOWATT LTG LIGHTING LV LOW VOLTAGE MFR MANUFACTURER MIN MINIMUM MLO MAIN LUGS ONLY

NEUTRAL NEC NATIONAL ELECTRICAL CODE (NFPA-70) NEMA NATIONAL ELECTRICAL MANUFACTURERS **ASSOCIATION** NTS NOT TO SCALE

PNL PANEL POC POINT OF CONNECTION РΤ POTENTIAL TRANSFORMER PVC POLYVINYL CLORIDE PWR POWER QTY QUANTITY

RECEPTACLE REF REFERENCE ROUGH-IN RM ROOM RO RACEWAY ONLY SHT SHEET **SPEC SPECIFICATIONS** SW SWITCH SWBD **SWITCHBOARD** SWGR **SWITCHGEAR** TYP TYPICAL UG UNDERGROUND

UNDERWRITERS LABORATORIES UNLESS OTHERWISE NOTED UON **VOLTS** WATTS WARM WHITE WP WEATHERPROOF W/ WITH WITHOUT W/O **XFMR TRANSFORMER** TRANSFER

IMPEDANCE OR ZONE

EQUIPMENT REQUIRED.

AND INSTALLATION REQUIREMENTS.

<u>GENERAL</u>

PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH THE GOVERNING ELECTRICAL CODE, LOCAL CODES, ORDINANCES AND REQUIREMENTS OF UTILITY COMPANIES FURNISHING SERVICES TO INSTALLATION.

PROVIDE ALL WORK AND ITEMS NECESSARY FOR COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEMS. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY SHOW EVERY CONDUIT, BOX, CONDUCTOR OR SIMILAR ITEMS FOR A COMPLETE INSTALLATION.

3. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND DETERMINE CONDITIONS WHICH MAY AFFECT BID. ANY ITEMS NOT FULLY UNDERSTOOD

SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.

+. "REF" INDICATIONS DENOTE WORK COVERED ELSEWHERE (ARCHITECTURAL, STRUCTURAL, OR MECHANICAL).

. REFERENCE ARCHITECTURAL DRAWING FOR EXACT LOCATION OF DEVICES. QUESTIONS CONCERNING THE LOCATION OF DEVICES AND EQUIPMENT SHALL BE DIRECTED TO THE ARCHITECT. FAILURE TO COORDINATE REQUIREMENTS SHALL IN NO WAY RESULT IN ADDITIONAL COMPENSATION BEING PROVIDED TO THE CONTRACTOR.

6. WHEREVER THE WORD "PROVIDE" IS USED, IT MEANS, "FURNISH AND INSTALL COMPLETE AND READY FOR USE."

7. COORDINATE LOCATION OF ELECTRICAL WITH OTHER TRADES.

3. REFER TO EQUIPMENT DRAWINGS FOR MECHANICAL CHARACTERISTICS (SIZE, LOCATION, ETC.) OF MECHANICAL EQUIPMENT, UNLESS OTHERWISE INDICATED. COORDINATE INSTALLATION AND LOCATION OF ALL EQUIPMENT WITH MECHANICAL CONTRACTOR. VERIFY ALL FUSE RATINGS, WIRE SIZES AND DISCONNECT SIZES PRIOR TO INSTALLATION.

MATERIALS AND METHODS

PROVIDE RACEWAY AND WIRING ROUTED CONCEALED WITHIN BUILDING STRUCTURE WHERE POSSIBLE. WHERE RACEWAY CANNOT BE CONCEALED, IT SHALL BE INSTALLED PER PROJECT MANAGER'S DIRECTION. ALL CONDUIT SHALL BE INSTALLED IN NEAT SYMMETRICAL LINES HORIZONTAL OR PERPENDICULAR TO BUILDING COLUMNS AND ROOF LINES. CONDUITS SHALL BE GROUPED ON COMMON SUPPORTS WHEREVER POSSIBLE.

EXPOSED CONDUIT ROUTING: CONDUITS MAY BE ROUTED EXPOSED IN MECHANICAL AND ELECTRICAL ROOMS ONLY. EXPOSED CONDUITS SHALL BE SECURED A MINIMUM OF 6" ABOVE FLOOR.

3. OUTDOOR EXPOSED CONDUIT ROUTING: CONDUITS ROUTED ON ROOF OR EXPOSED TO WEATHER SHALL BE GRC, PVC OR LIQUID-TIGHT FLEX. PROVIDE WATER-TIGHT CONNECTIONS AND FITTINGS.

1. CLEARANCES: VERIFY PHYSICAL DIMENSIONS OF EQUIPMENT TO ENSURE THAT ACCESS CLEARANCES CAN BE MET.

5. CONNECTIONS: PROVIDE GRS, METALLIC FLEX, OR LIQUIDTITE FLEX CONDUITS FOR CONNECTIONS TO MOTORS OR MOTORIZED EQUIPMENT.

6. WIRING: PROVIDE MINIMUM #12 AWG WIRE SIZE. IF CONDUIT IS TO BE USED MINIMUM IS TO BE 1/2". FLEXIBLE CONDUIT AND FLEXIBLE CABLE IS PERMISSIBLE THROUGHOUT THE BUILDING.

7. WIRING: PROVIDE MINIMUM #10 AWG COPPER CONDUCTOR SIZE IN 120V BRANCH CIRCUIT RUNS OVER 75' IN LENGTH.

SITE ELECTRICAL

GENERAL NOTES

- 1. TRENCHING: COORDINATE ALL TRENCHING WORK WITH OTHER UTILITY LOCATIONS AND DRAINAGE TRENCHES.
- 2. UNDERGROUND CONDUITS: PROVIDE PVC, SCHEDULE 40, 3/4" MINIMUM. PROVIDE GRC CONDUIT TRANSITION ELBOW WHEN TURNING UP TO ABOVE
- 3. DIRECT-BURIED CONDUITS: CONDUIT FOR BRANCH CIRCUITS OUTSIDE BUILDINGS NOT BENEATH DRIVEWAYS OR PARKING AREAS SHALL BE DIRECTLY BURIED WITHOUT CONCRETE ENCASEMENT. THE DEPTH TO THE TOP OF BURIED CONDUITS SHALL BE 36". PROVIDE MARKER TAPE 12" BELOW GRADE.

PRCNC20250094

- 4. BELOW SLAB: CONDUIT ROUTED BELOW ON-GRADE FLOOR SLABS SHALL BE INSTALLED PRIOR TO FLOOR SLAB POUR. ROUTE CONDUITS BELOW SLAB AS STRAIGHT AS POSSIBLE TO MINIMIZE BENDS.
- 5. ALL CONDUITS PENETRATING THE BUILDING ENVELOPE BELOW GRADE SHALL FOLLOW WATERPROOFING REQUIREMENTS IN THE ARCHITECTURAL DRAWINGS.

NEUTRALS

1. AT CONTRACTORS OPTION, NEUTRALS MAY BE SHARED ON COMBINED HOMERUNS UNLESS THE CIRCUIT HAS A GFCI BREAKER, AN ISOLATED GROUND, OR IS FROM A PANEL WITH TVSS PROTECTION. ANY NEUTRAL DOWNSTREAM FROM A DIMMER SHALL BE DEDICATED TO THE DIMMED LOAD.

2. NEUTRAL WIRES SHOWN FOR TWO AND THREE POLE MECHANICAL AND KITCHEN EQUIPMENT MAY BE OMITTED UPON VERIFICATION THAT THEY ARE NOT REQUIRED EITHER FOR OPERATION OR CONTROL CIRCUITS PER MANUFACTURER'S SPECIFICATIONS.

<u>LIGHTING</u>

1. PROVIDE LIGHT FIXTURES WITH PROPER FITTING FLANGES, MOUNTING SUPPORTS. AND ACCESSORY ITEMS, UL LISTED FOR CONDITIONS OF USE.

LOW VOLTAGE LIGHTING

- 1. PROVIDE LOW VOLTAGE TRANSFORMERS IN NEARBY ACCESSIBLE CEILING SPACE.
- 2. PROVIDE LOW VOLTAGE CONDUCTORS SIZED PER MANUFACTURER'S GUIDELINES TO MINIMIZE VOLTAGE DROP.

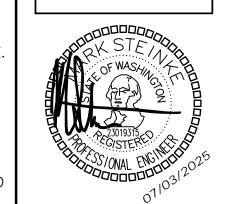
LIGHTING CONTROL

1. THE MAXIMUM LIGHTING POWER THAT MAY BE CONTROLLED FROM A SINGLE SWITCH OR AUTOMATIC CONTROL SHALL NOT EXCEED THAT WHICH IS PROVIDED BY A TWENTY AMPERE CIRCUIT LOADED TO NOT MORE THAN EIGHTY PERCENT. A MASTER CONTROL MAY BE INSTALLED PROVIDED THE INDIVIDUAL SWITCHES RETAIN THEIR CAPABILITY TO FUNCTION INDEPENDENTLY.

2. EMERGENCY FIXTURES: EMERGENCY BATTERY/CHARGER SHALL BE CONNECTED TO AN UNSWITCHED LEG OF THE DESIGNATED CIRCUIT.

INCLUDED IN SET





W. SUI 98036 -3343

10

07-03-2025

SHEET TITLE: LEGEND, GENERAL NOTES & DRAWING

INDEX

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

DRAWING INDEX

Χ

CONTRACTOR SUBSTITUTIONS & REVISIONS 1. PLEASE SUBMIT PROPOSALS FOR SUBSTITUTIONS OR REVISIONS FOR REVIEW AND APPROVAL PRIOR TO

4. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS

5. PROVIDE CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE

GENERAL REQUIREMENTS

1. DRAWINGS ARE DIAGRAMMATIC. SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND

THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT.

REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.

ORDERING MATERIAL OR DOING WORK. 2. FOR EQUIPMENT THAT IS SCHEDULED BY MANUFACTURER'S NAME AND CATALOG DESIGNATIONS, THE MANUFACTURER'S PUBLISHED DATA AND/OR SPECIFICATION FOR THAT ITEM ARE CONSIDERED PART OF

ENGINEERING COSTS FOR REVISING MEP PLANS SHALL BE ADDRESSED IN THE COST ANALYSIS OF THE SUBSTITUTION PROPOSAL.

CONTRACTOR TO COORDINATE WITH ENGINEER AND DETERMINE ASSOCIATED DESIGN AND PERMITTING COSTS. CONTRACTOR SHALL BE RESPONSIBLE FOR OTHER COSTS ASSOCIATED WITH UNFORESEEN ISSUES RESULTING FROM SUBSTITUTIONS OR REVISIONS.

PRE-CON MEETING NOTES

CONTRACTORS SHALL ATTEND A PRE-CONSTRUCTION MEETING WITH THE ENGINEER FOR THE PURPOSE OF REVIEWING THE WORK PRIOR TO ORDERING ANY EQUIPMENT OR PERFORMING ANY WORK. THE MEETING SHALL BE LOCATED AT THE PROJECT SITE ON A DATE AND TIME TO BE MUTUALLY AGREED. THE MEETING WILL BE A WORKING SESSION. THE MEETING WILL BE FACILITATED BY THE ENGINEER AND THE AGENDA WILL INCLUDE A DETAILED REVIEW OF THE PLANS AND SPECIFICATIONS, CROSS CHECK WITH OTHER TRADES FOR COORDINATION ISSUES, REVIEW OF PROPOSED PRODUCTS, REVIEW OF PLANNED MEANS AND METHODS, AND ON-SITE INVESTIGATION OF FIELD CONDITIONS RELATIVE TO EXISTING CONDITIONS THAT COULD AFFECT THE WORK. PERSONS ATTENDING THE MEETING SHALL BE KNOWLEDGEABLE OF THE PROJECT AND SHALL BE THE SPECIFIC PERSONS INTENDED TO CONTINUE WITH THE PROJECT THROUGH TO COMPLETION. IF REQUIRED. REVISED PLANS WILL BE ISSUED THROUGH OFFICIAL CHANNELS. CHANGES IN THE BID PRICE WILL BE DISCUSSED, BUT NO CHANGE ORDERS WILL BE ISSUED UNLESS PROCESSED THOUGH OFFICIAL CHANNELS. IT SHALL BE UNDERSTOOD THAT THE ENGINEER HAS NO AUTHORITY TO ISSUE CHANGE ORDERS.

THE FOLLOWING TRADES SHALL BE REPRESENTED FOR THE MINIMUM TIME INDICATED:

MECHANICAL SHEET METAL 4 HOURS 4 HOURS PLUMBING/PIPING ELECTRICAL 4 HOURS SPRINKLER 2 HOURS GENERAL CONTRACTOR ALL SESSIONS Separate Electrical Permit is required with the Washington State Department of

https://lni.wa.gov/licensing-permits/electrical/electrical-permits-fees-and-inspections

ENERGY COMPLIANCE FORMS

SCHEDULES
PANEL SCHEDULES
LIGHTING NOTES & SCHEDULE
LIGHTING NOTES

SITE PLAN - ELECTRICAL

PROJECT NOTES

DESCRIPTION

LEGEND, GENERAL NOTES, DRAWING INDEX

ONE-LINE DIAGRAM, FEEDER, & FAULT

LEVEL 1 LIGHTING AND POWER
LEVEL 2/ROOF LIGHTING AND POWER

City of Puyallup opment & Permitting Services ISSUED PERMIT Planning Building Engineering Public Works Fire Traffic

or call for Licensing Information: 1-800-647-0982

DWG

E0.0

E0.1

E0.2

Labor & Industries.

MLEAVENS F:\810-010 EAST TOWN CROSSING\DWG\ELECTRICAL\PRESENTATION SHEETS\A-E4.0.DWG 05-03-2021 11:47

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APPLICABLE CODES

THE FOLLOWING PROJECT DESIGN IS BASED ON THE FOLLOWING CODES:

- -2021 INTERNATIONAL ENERGY CONSERVATION CODE, COMMERCIAL AND WA AMENDMENT (WSEC)
- -2021 INTERNATIONAL ENERGY CONSERVATION CODE, RESIDENTIAL AND WA AMENDMENT (WSEC)
- -2021 INTERNATIONAL BUILDING CODE AND WA AMENDMENT (IBC) -2021 INTERNATIONAL MECHANICAL CODE AND WA AMENDMENT (IMC)
- -2021 INTERNATIONAL FIRE CODE AND WA AMENDMENT (IFC)
- -2021 UNIFORM PLUMBING CODE AND WA AMENDMENT (UPC)
- -2023 NEC (NEC)

VIBRATION AND ACOUSTICAL **ISOLATION**

PRCNC20250094

THE FOLLOWING MEASURES SHALL BE TAKEN TO MINIMIZE VIBRATION AND NOISE TRANSMISSION FROM MECHANICAL AND ELECTRICAL EQUIPMENT TO THE INTERIOR SPACES:

TRANSFORMERS:

A) PROVIDE FLEXIBLE CONDUIT OR MC CABLE AT EQUIPMENT

B) MOUNT TRANSFORMERS ON NEOPRENE GROMMET ISOLATORS.

SUBDUCT EXHAUST FANS:

A) PROVIDE FLEXIBLE CONDUIT OR MC CABLE AT EQUIPMENT CONNECTION.

ENCLOSED GARAGE EXHAUST FANS:

A) PROVIDE FLEXIBLE CONDUIT OR MC CABLE AT EQUIPMENT CONNECTION.

ROOFTOP AIR HANDLERS:

A) PROVIDE FLEXIBLE CONDUIT OR MC CABLE AT EQUIPMENT CONNECTION.

FAN COIL UNITS:

A) PROVIDE FLEXIBLE CONDUIT OR MC CABLE AT EQUIPMENT CONNECTION.

ROOF MOUNTED CONDENSERS:

A) PROVIDE FLEXIBLE CONDUIT OR MC CABLE AT EQUIPMENT CONNECTION.

FLEXIBLE CONDUIT OR MC CABLE CONNECTIONS FOR VIBRATION ISOLATION SHALL BE A MINIMUM OF TWO FEET LONG.

STRUCTURAL PENETRATIONS

THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL COORDINATION OF EDGE OF SLAB DRAWINGS AND OTHER PENETRATIONS OF STRUCTURAL SLABS AND SHEAR WALLS FOR ALL ITEMS RELATED TO THE ELECTRICAL SCOPE OF WORK.

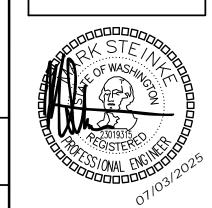
IRRIGATION NOTES

COORDINATE WITH LANDSCAPE CONTRACTOR FOR CONDUIT PATHWAY WITHIN THE BUILDING FOR ANY IRRIGATION CONTROLS FOR UPPER FLOORS.

CONDUIT & CONDUCTOR FIRE RATING

- 1. CONDUIT FOR ELECTRICAL CONDUCTORS BY THE FACP OR FIRE ALARM SYSTEM SHALL BE IN 2 HOUR RATED ENCLOSURES OR ENCASED IN 2-INCH OF CONCRETE AND RATED CABLE ASSEMBLIES, OR BE CONDUCTORS IN 2 HOUR-RATED RACEWAYS PER NFPA 72.
- 2. THE EQUIPMENT AND CONTROL WIRING SHALL BE ENCLOSED BY FIRE BARRIERS CONSTRUCTED IN ACCORDANCE WITH IBC SECTION 707 OR HORIZONTAL ASSEMBLIES CONSTRUCTED IN ACCORDANCE WITH IBC SECTION 711. OR USING A 2 HR RATED CABLE SYSTEM OR ENCLOSED WITHIN 2" OF CONCRETE.
- 3. FIRE ALARM WIRING SHALL COMPLY WITH IBC 907.6.1. WIRING SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 70.
- 4. RACEWAYS FOR THE DEDICATED BRANCH CIRCUIT(S) REQUIRED FOR PRIMARY POWER TO THE FIRE ALARM CONTROL PANEL (FACP) SHALL BE IN 2 HOUR RATED ENCLOSURES OR ENCASED IN 2-INCH OF CONCRETE AND RATED CABLE ASSEMBLIES, OR BE CONDUCTORS IN 2 HOUR-RATED RACEWAYS PER IBC 907 AND NFPA 72 SECTION 10.6.11.3.1.3
- 5. ALL WIRING USED FOR SMOKE CONTROL, REGARDLESS OF THE VOLTAGE SHALL HAVE FIRE-RESISTANCE RATED PROTECTION OF AT LEAST 2 HOURS OR AS REQUIRED IN RULES PROMULGATED BY THE BUILDING OFFICIAL. IFC 909.11.2





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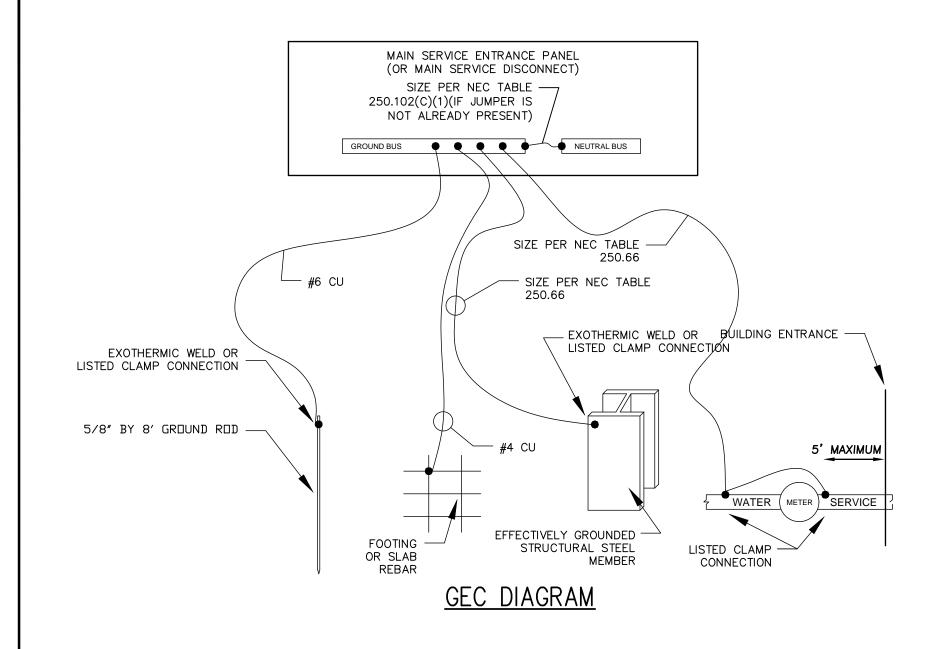
CROS

07-03-2025

SHEET TITLE:

PROJECT NOTES



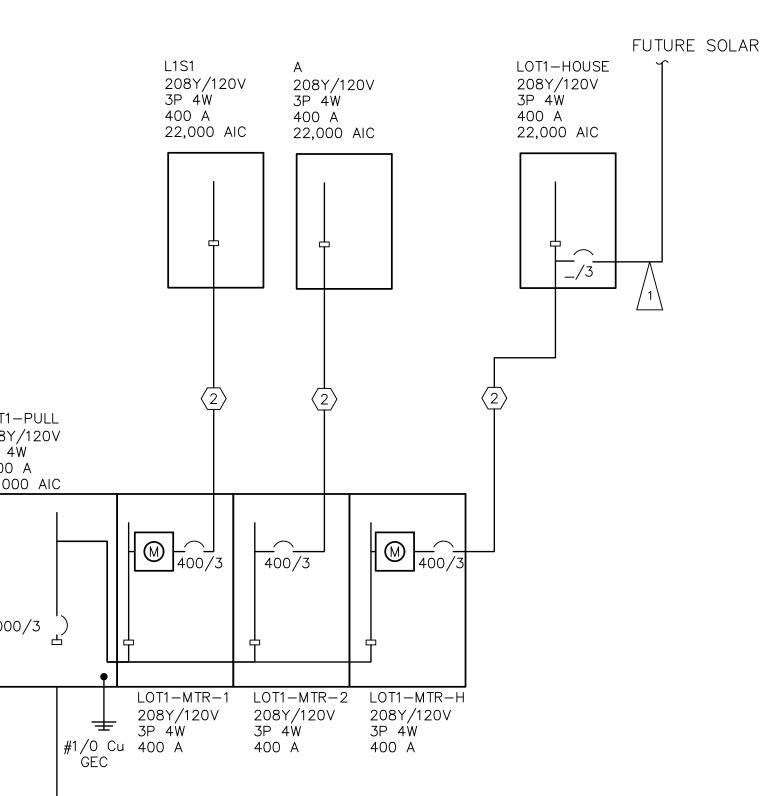


$\int FEEL$	DER SO	CHEDULE	
ID	FEEDER AMPS	CONDUIT AND FEEDER	FEEDING THESE DEVICES
1	200	2-1/2"C,3#250kcmil AL,#250kcmil AL N,#4 AL G	S3B
2	400	(2)2-1/2"C,3#250kcmil AL,#250kcmil AL N,#1 AL G	A, L1S1, LOT1-HOUSE, LOT2-HOUSE, S1, S2A, S3A
3	1000	(4)3"C,3#350kcmil AL,#350kcmil AL N	LOT1-PULL
4	1200	(4)3"C,3#500kcmil AL,#500kcmil AL N	LOT2-PULL

SIZING	METHOD:	COPPER,	60°C	#12	THROUGH	#1,	75℃ 1	/0	AND	ABOVE

DEVICE	FAULT	AIC	L-N	UTILITY	FED F	ROM	FEEDE	CR	TOTAL
		RATING	VOLTS	FAULT	DEVICE	FAULT	SIZE	LENGTH	MOTOF FAULT
TI VEND	40.007	40.000	100)/	70.700					+
TI XFMR	40,907	42,000	120V	39,700					1,207
LOT2-PULL	28,472	42,000	120V	27,390	TI XFMR	39,700	(4)#500kcmil AL	108'	1,082
LOT2-MTR-1	28,463	42,000	120V	27,390	LOT2-PULL	27,390		13'	1,073
S1	11,210	22,000	120V	10,840	LOT2-MTR-1	27,390	(2)#250kcmil AL	139'	370
LOT2-MTR-2	28,463	42,000	120V	27,390	LOT2-PULL	27,390		16'	1,073
S2A	11,737	22,000	120V	11,355	LOT2-MTR-2	27,390	(2)#250kcmil AL	129'	382
LOT2-MTR-3	28,462	42,000	120V	27,390	LOT2-PULL	27,390		19'	1,072
S3A	15,431	22,000	120V	14,940	LOT2-MTR-3	27,390	(2)#250kcmil AL	79'	491
S3B	13,470	22,000	120V	13,121	S3A	14,940	#250kcmil AL	12'	349
LOT2-MTR-H	28,462	42,000	120V	27,390	LOT2-PULL	27,390		22'	1,072
LOT2-HOUSE	24,864	42,000	120V	23,993	LOT2-MTR-H	27,390	(2)#250kcmil AL	15'	871

/208Y/120V 3P/4W/ 400/A LOT1-PULL 208Y/120V 3P 4W 1000 A 42,000 AIC 1000/3



FLAG NOTES

PROVISIONAL BREAKER SPACE AND CONDUIT FOR FUTURE PV SYSTEM. LOCATE BREAKER SPACE AT OPPOSITE END OF BUS AS MAIN POWER SOURCE.

2 CONTRACTOR SHALL VERIFY AVAILABLE FAULT CURRENT WITH PSE SERVICE LETTER PRIOR TO ORDERING EQUIPMENT.

3 ALL GEAR SHALL BE REVIEWED AND APPROVED BY PSE PRIOR TO ORDERING

GROUNDING NOTES AND REQUIREMENTS:

THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR, POWER COMPANY, PHONE COMPANY, INTERNET COMPANY, CABLE TV COMPANY, AND THE SATELLITE TV COMPANY TO ENSURE REQUIRED GROUNDING IS INSTALLED FOR EACH SYSTEM.

THIS SHALL BE DONE PRIOR TO AND DURING INSTALLATION OF FOUNDATION RE-BAR AND CONTINUE DURING THE CONSTRUCTION PHASES, TO ENSURE EACH SYSTEM HAS IT'S REQUIRED GROUNDING INSTALLED FOR PROPER OPERATION OF THE SYSTEM.

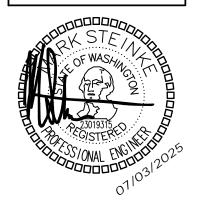
- 1. THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND PROVIDE WHAT IS REQUIRED TO DO THE FOLLOWING:
- 2. FOOTING GROUND RE-BAR COMES UP IN THE ELECTRICAL ROOM AND THE RE-BAR IS SNUGLY SECURED TO THE FOOTING RE-BAR PER OWNER DETAIL.
- 3. THE MC GROUNDING TIES TO THE FOOTING RE-BAR, COUNTERPOISE, BUILDING STEEL, AND WATER PIPING.
- 4. THE GROUND WIRE FOR THE COUNTERPOISE SHALL BE STRANDED, INSULATED WIRE IN CONDUIT UNTIL IT REACHES THE FIRST BAR OF THE COUNTERPOISE. BETWEEN THE COUNTERPOISE BARS IT SHALL BE A STRANDED BARE COPPER WIRE.

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building Planning
Engineering Public Works
Fire Traffic

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

0. DATE DESCRIPTION
12/31/24 PERMIT SET
02/20/25 STREET LIGHTING REVISIONS
04/22/25 PERMIT SET 3
07/03/25 PERMIT SET 4





DESIGNED: KAS
CHECKED: STEINKE M.
APPROVED: STEINKE M.

OD, WA 98036 206)364-3343

19401 40TH AVE W. S LYNNWOOD, WA 9800

TOWN CROSSING
R WAY & SHAW RD. PUYALL

AOBISON 19407

AOBISON LYNN
RANGE IN COMMENT
R WAY & SHAW RD. PUYALL

R WAY & SHAW RD. PUYALL

R WAY & SHAW RD. PUYALL



DATE: **07-03-2025**

SHEET TITLE:

ONE-LINE DIAGRA

ONE-LINE DIAGRAM, FEEDER & FAULT SCHEDULES

SHEET NO.

SCALE: NONE

ONE-LINE DIAGRAM

M(FE	DOM DUNTING	1 1	<u> </u>	VOLTS 20 BUS AMPS NEUTRAL	S 40	0	3P 4W		1	AIC 22,00 MAIN BKR LUGS ST/	MLO
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESC	:RIPTION		CKT #	CKT BKR	LOAD KVA	CIRC	CUIT DESC	CRIPTION
7 1 3 5 7 9 11 3 5 7 9 12 3 5 7 9 12 3 5 7 9 13 5 7 9 13 5 7 9 13 5 7 9 13 13 13 13 13 13 13 13 13 13 13 13 13	20/1 20/1 20/1 20/1 20/1 20/2 20/1 40/2 40/2 40/2 40/2 40/2 40/2	0.5 0.5 0.18 0.5 0.017 1 0.019 6.6 6.6 6.6 6.6 6.6	SITE LIGHTING SITE LIGHTING RECEPTACLE FACP LIGHTING EWH-1.0 LIGHTING DUAL EV CHA DUAL EV REAL	RGER RGER RGER RGER	д в о д в о д	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36	20/1 20/1 20/1 60/2 40/2 -/2 -/2 -/2 -/2 -/2	0.18 0.5 0.18 8.64 6.6 6.6 6.6 6.6 6.6 0	RECE FACE RECE BP- DUAI DUAI DUAI	EPTACLE EPTACLE 1 L EV REA L EV CAP L EV CAP L EV CAP CE	DY DY ABLE ABLE ABLE
L	GHTING ARGEST MOTOR		CONN KVA KVA 1.04 1.3 2.88 0.72			REC EV HEA TOT. BAL LO PHA	ORS EPTACLE TING AL LOAD ANCED 3 AD ASE A ASE B ASE C	8.0 S 1.5 79 1).2	8.64 1.54 99 1 112 311 A 106% 104% 89.3%	- (100%) (50%>10) (125%) (100%)

M(FE		FLUSH LOT1-N	MTR-1		BUS AN	208Y/1 MPS 40 AL 100 %	0	3P 4W		٨	AIC 22,0 Main bkf .ugs st	R MLO
CKT #	CKT BKR	LOAD KVA	CIRCUIT	DESCRIF	PTION		CKT #	CKT BKR	LOAD KVA	CIRC	UIT DES	CRIPTION
1 3 5 7 9 11 13 15 17 19 12 13 13 13 13 13 13 13 13 13 13 13 13 13	125/3 125/3 -/1 -/1 -/1 -/1 -/1 -/1 -/1 -/1	37.5 37.5 0 0 0 0 0 0 0 0 0	RTU-1 RTU-2 SPACE			ο σο ο σο ο σο ο σο ο σο ο σο	16 18 20 22 24	20/1 20/1 20/1 20/1 20/1 -/1 -/1 -/1 -/1 -/1 -/1 -/1 -/1 -/1 -	1.2 1.2 0.18 0.19 0 0 0 0 0 0 0 0 0 0 0	1		
LA	GHTING ARGEST MOTOR		CONN KVA D.19 37.5	CALC KVA 0.238 9.37	(125%) (25%)		CON HEA	EPTACLES TINUOUS TING PLING	K	9	CALC KVA 0.36 3 74.9 0	(50%>10) (125%) (100%) (0%)
							BAL LO PH	AL LOAD ANCED 3- AD ASE A ASE B ASE C	-PHASE		87.9 244 A 102% 102% 96.9%	_

/	4												
M(FE	DOM DUNTING ED FROM DTE				VOLTS 20 8 BUS AMPS NEUTRAL	40	0	3P 4W		M	AIC 22,00 MAIN BKR UGS STA	MLO	
CKT #	CKT BKR	LOAD KVA	CIRCUIT	DESCRIP	TION		CKT #	CKT BKR	LOAD KVA	CIRCI	UIT DESC	RIPTION	
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35	80/3 80/3 40/2 40/2 40/2 40/2 40/2 1	20.4 20.4 5.26 5.26 5.26 5.26 5.26 5.26	RTU-4 SAUNA SAUNA SAUNA SAUNA SAUNA SAUNA	DESCRIP		сарсарсарс	2 4 6 8 10 12 14 16 18 20 22 4 26 28 32 34 36	30/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 2	2.4 0.18 0.18 0.18 5 0.54 0.18 0.36 1.85 1 1.5 5 0.25 0.72 0.9 5.26	SIGN RECE RECE RECE RECE RECE HAND DRINI WASH DRYE	PTACLE PTACLE PTACLE PTACLE PTACLE PTACLE O DRYER KING FOUL HER R	R NTAIN SIGN	
37 39 41 43 45 47 49 51 53 55 57 61 63	40/2 40/2 20/1 -/1 -/1 -/1 -/1 -/1	5.26 5.26 0.5 0 0 0 0 0	SAUNA SAUNA RECEPT SPACE	ACLE		р с а р с а р с а	38 40 44 46 46 46 46 52 54 56 66 66 66	 40/2 20/1 -/1 -/1 -/1 -/1 -/1 -/1 -/1	5.26 0.18 0 0 0 0 0 0 0	SAUN TV SPAC SPAC SPAC SPAC SPAC SPAC SPAC SPAC	- — — — — — — — — — — — — — — — — — — —		
L	J GHTING ARGEST MOTOR ECEPTACI	2	CONN KVA 0.25 20.4 1	CALC KVA 0.313 5.09 4.1	(125%) (25%) (50%>10)		NON HEA COO TOT. BAL LO PHA	TINUOUS CONTINUE TING LING AL LOAD ANCED 3 AD ASE A ASE B ASE C	2.4 0US 12.9 95. 40.	5 2	CALC KVA 3 12.5 95.2 0 120 334 A 105% 104% 91.3%	(125%) (100%) (100%) (0%)	

#> FLAG NOTES

1 HOTWORX TO PROVIDE BUCKBOOSTER FOR SAUNAS MOUNTED TO THE WALL.

	NTING SURFAC		Bi	OLTS 208Y, US AMPS 4 EUTRAL 10 0	-00	SP 4W		MA	: 42,000 In BKR M GS STAND		
CKT	BREAKER				L	OAD KV	A				
#	TRIP/POLES	CIRCUIT DESCRIP	IION		Α	В	С	FEEDER RACE	VAY AND CO	ONDUCTORS	
1	400/3	PANEL L1S1			26.4	26.4	25.2	(2)2-1/2°C,	3#250kcm	il AL,#250kcm	nil AL N,#1 AL G
		TOTAL CONNE	ECTED KVA	BY PHASE	26.4	26.4	25.2				
		CONN KVA	CALC KV	A	-			С	ONN KVA	CALC KVA	
LAR	HTING RGEST MOTOR CEPTACLES	0.19 37.5 0.36	0.238 9.37 0.36	— (125%) (25%) (50%>10))		TINUOUS TING LING	74	4 1.9 1.9	3 74.9 0	(125%) (100%) (0%)
							AL LOAD ANCED 3) 3—PHASE LOA	D	87.9 244 A	

_()T1-1	MTR-2) -								
MOUNTING SURFACE BUS			DLTS 208Y/120V 3P 4W US AMPS 400 CUTRAL 100%			AIC 42,000 Main BKR MLO LUGS STANDARD					
KT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION			LOAD KVA A B C			FEEDER RACEWAY AND CONDUCTORS			
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 CONNE	ECTED KVA	BY PHASE	14.8	13.8	13.8				
		CONN KVA	CALC KVA	4					CONN KVA	CALC KVA	
LIGHTING LARGEST MOTOR RECEPTACLES		0.209 20.4 0.18	0.261 5.09 0.18	(125%) (25%) (50%>10))	CONTINUOUS HEATING COOLING		S	1.2 40.8 40.8	1.5 40.8 0	(125%) (100%) (0%)
							AL LOAI ANCED) 3-PHASE L	.OAD	47.8 133 A	

ROOM MOUNTING SURFACE FED FROM LOT1-PULL NOTE			В	VOLTS 208Y/120V 3P 4W BUS AMPS 400 NEUTRAL 100%			AIC 42,000 Main BKR MLO Lugs standard				
CKT BREAKER				LOAD KVA			<u>——</u>				
#	TRIP/POLES	CIRCUIT DESCRIP	TION	Α	В	С	FEEDER RA	FEEDER RACEWAY AND CONDUCTORS			
1	400/3	PANEL LOT1-HOL	JSE		32.4	31.8	27.3	(2)2-1/2	"C,3#250kcmi	1 AL,#250kcm	il AL N,#1 AL (
		TOTAL CONNE	CTED KVA	BY PHASE	32.4	31.8	27.3				
		CONN KVA	CALC KV	′A		•		•	CONN KVA	CALC KVA	
LIGHTING LARGEST MOTOR MOTORS		1.04 2.88 8.64	1.3 0.72 8.64	(125%) (25%) (100%)		EV	EPTACLE TING	ES	1.54 79.2 1	1.54 99 1	(50%>10) (125%) (100%)
							AL LOA[ANCED) 3-PHASE L	_OAD	112 311 A	

EV CHARGING INFRASTRUCTURE CALCS (2021):

TOTAL PARKING SPACES PROVIDED: 37

PER WAC 51-50-0429 TABLE 429.2, 10% OF TOTAL PARKING SPACES SHALL BE PROVIDED WITH EV CHARGING STATIONS:

 $37 \times 10\% = 4 EV CHARGING SPACES$

PER WAC 51-50-0429 TABLE 429.2, 25% OF TOTAL PARKING SPACES SHALL BE EV READY PARKING SPACES:

 $4 \times 10\% = 4$ EV READY PARKING SPACES

PER WAC 51-50-0429 TABLE 429.2, 10% OF TOTAL PARKING SPACES SHALL BE EV CAPABLE PARKING SPACES:

4 x 10% = 4 EV CAPABLE PARKING SPACES TOTAL EV SPACES: 12

City of Puyallup velopment & Permitting Services ISSUED PERMIT Building Planning Engineering Public Works Fire Traffic

AUTOMATIC LOAD MANAGEMENT SYSTEM (ALMS) WILL BE UTILIZED TO ADJUST THE MAXIMUM ELECTRICAL CAPACITY REQUIRED FOR EV-READY AND EV-CAPABLE SPACES. THE ALMS SHALL BE DESIGNED TO ALLOCATE CHARGING CAPCITY AMONG MULTIPLE FUTURE EV CHARGING STATIONS AT MINIMUM OF 16 AMPERES PER EV CHARGER, PER WAC 51-50-0429.3

ALL EV CHARGING STATIONS, EV READY, EV CAPABLE WILL BE PROVIDED WITH A DEDICATED 40AMP BRANCH CIRCUIT.

EV LOAD CALCS WITH ALMS:

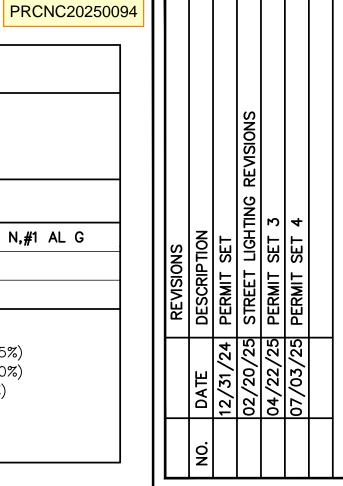
= 320A @208V/2P

4 EV CHARGING STATIONS x 40A EACH + 4 EV READY x 20A EACH + 4 EV CAPABLE x 20A EACH

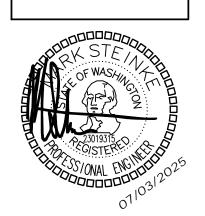
= 67KVA

MINIMUM ELECTRICAL CAPACITY FOR EV WITH ALMS IS 67KVA.

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







CROSSING IENT HAW RD. PUYALL

||-|-

07-03-2025

SHEET TITLE: PANEL SCHEDULES

RETAIL INTERIOR LUMINAIRE SCHEDULE								
CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	INPUT VA	VOLTS
А	0	(1) 12W LED	6" DOWNLIGHT	0-10V DIMMING	RECESSED	LITELINE: SLMB6 12 C [FINISH]	12	120V 1P 2W
В	\bigcirc	(1) 60W LED	UFO HIGH BAY LIGHT	0-10V DIMMING	CEILING	HYKOLITY: HBB-0072 ELITE PLUS SERIES	60	120V 1P 2W
С	\otimes	(1) 5W EM	EXIT SIGN — EMERGENCY BATTERY BACKUP — HATCH INDICATES LIT FACE	ЕМ	SURFACE	LSI: EMS WB SERIES (OR EQUAL)	5	120V 1P 2W
CE1		(1) 17W LED	8" SURFACE DOWNLIGHT — CORRIDORS — EMERGENCY DRIVER BACKUP	0-10V DIMMING	SURFACE	DMF: DRDHNJ0150SEMS / DRD5S8R159300A	17	MULTIPLE
D		(1) 5W EM	EMERGENCY LIGHT — WET LISTED — EMERGENCY BATTERY BACKUP	ЕМ	SURFACE	LSI: CWL SERIES (OR EQUAL)	5	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	\otimes	(1) 5W EM	EXIT SIGN — EMERGENCY BATTERY BACKUP — HATCH INDICATES LIT FACE	ЕМ	SURFACE	LSI: EMS WB SERIES (OR EQUAL)	5	MULTIPLE

LIGHTING CONTROLS LEGEND						
SYMBOL	CONTROL TYPE	CONTROL FUNCTION				
\$ \$ \$	TOGGLE SWITCH	MANUAL ON/OFF LIGHTING CONTROL. SUBSCRIPT INDICATES WHICH FIXTURES ARE TO BE CONTROLLED BY WHICH SWITCH (WSEC C405.2.3). SUBSCRIPT 'k' INDICATES TAMPER RESISTANT KEYED SWITCH FOR USE BY AUTHORIZED PERSONNEL ONLY.				
ФФ	DIMMER SWITCH	MANUAL LIGHT REDUCTION CONTROLS. CONTROL SHALL ALSO HAVE MANUAL ON/OFF FUNCTIONALITY. SUBSCRIPT INDICATES WHICH FIXTURES ARE TO BE CONTROLLED BY WHICH DIMMER. (C405.2.3, C405.2.4)				
vs vs os os \$	TOGGLE/DIMMER SWITCH WITH OCCUPANCY SENSOR	SWITCHES LABELED 'os' OR 'vs' SHALL TURN OFF ALL CONNECTED LUMINAIRES WITHIN 20 MINUTES OF SPACE BEING VACANT. (C405.2.1, C405.2.3)				
(OS)	SURFACE MOUNTED OCCUPANCY SENSOR	AUTOMATIC LIGHTING CONTROL SHALL TURN OFF ALL CONNECTED LUMINAIRES WITHIN 20 MINUTES OF SPACE BEING VACANT. (C404.2.1)				
PS	MULTIZONE PHOTOSENSOR	AUTOMATIC LIGHTING CONTROL SHALL AUTOMATICALLY ADJUST THE LIGHT OUTPUT OF ALL CONNECTED LUMINAIRES BASED ON AVAILABLE DAYLIGHT (C405.2.5).				

EXIT SIGN NOTES

DURING CONSTRUCTION UPON COMPLETION OF A TYPICAL FLOOR FRAMING AND BEFORE WALL COVER, ELECTRICAL CONTRACTOR SHALL WALK THE EGRESS PATHS WITH THE LOCAL INSPECTOR (AHJ) TO CONFIRM THAT ALL THE EXIT SIGNS ARE LOCATED PER THE AHJ'S SATISFACTION AND IDENTIFY ANY ADDITIONAL EXIT SIGNS THAT THE AHJ WISHES TO BE INSTALLED (IBC 1013.1). CONTRACTOR SHALL PROVIDE UP TO 10% ADDITIONAL EXIT SIGNS AT NO ADDITIONAL COST.

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
DESCRIPTION
PERMIT SET
STREET LIGHTING REVISIO
PERMIT SET 3
PERMIT SET 4





ESIGNED: KAS
:HECKED: STEINKE M.

W. SUITE 302 98036

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

LOT

OWN CROSSING
PROVEMENT
AY & SHAW RD. PUYALLI
OBISON
INFERING INC. PHOP

PIONEER WAY

DATE: 07-03-2025

SHEET TITLE:
LIGHTING NOTES &
SCHEDULE

SHEET NO.

Shell Pern Permit will

City of Puyallup
Development & Permitting Service
ISSUED PERMIT

Building Planning

Engineering Public Works

Fire Traffic

LIGHTING CONTROL SYSTEM REQUIREMENTS

- 1. CONTRACTOR TO PROVIDE FULLY OPERATIONAL LIGHTING CONTROL SYSTEM(S).
- 2. LIGHTING CONTROLS SHALL BE INSTALLED WHICH MEET ALL REQUIREMENTS OF LOCAL ENERGY CODES.
- 3. CONTRACTOR SHALL VERIFY THE COMPATIBILITY OF DIMMING AND CONTROL MODULES WITH FIXTURE TYPES PRIOR TO INSTALLATION.
- 4. LOCATIONS OF OCCUPANCY SENSORS, PHOTO SENSORS, AND MANUAL LIGHTING CONTROLS ARE DIAGRAMMATIC. CONTRACTOR TO COORDINATE QUANTITIES AND OPTIMAL LOCATIONS WITH LIGHTING CONTROL MANUFACTURER AND ARCH/OWNER.
- 5. THE CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL ENGINEER FOR EXACT LOCATIONS OF EXTERIOR PHOTO CELLS, IF ANY.

AUTOMATIC LIGHTING CONTROLS

6. OCCUPANCY SENSORS (WSEC C405.2.1) SHALL BE CONFIGURED PER THE FOLLOWING (UON):

- 6.1. AUTOMATICALLY TURN OFF LIGHT WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE.
 6.2. AUTOMATICALLY TURN ON LIGHTING TO NOT MORE THAN 50 PERCENT POWER WHEN OCCUPANT ENTERS THE SPACE
- 6.3. SHALL INCORPORATE A MANUAL CONTROL TO ALLOW OCCUPANTS TO TURN LIGHTS ON/OFF.
- 7. DAYLIGHT ZONES ARE SHOWN ON PLANS AS DEFINED BY C405.2.5.2-C405.2.5.4. DAYLIGHT ZONES ARE REFERRED TO AS 'PRIMARY', 'SECONDARY', AND 'TOPLIT' ON
- PLANS AND DENOTED BY DASHED 'DZ' LINES.
 7.1. DAYLIGHT RESPONSIVE CONTROLS SHALL PROVIDE CONTINUOUS AUTOMATIC DIMMING BASED ON DAYLIGHT CONTRIBUTION OF THE GENERAL LIGHTING WITHIN
- DAYLIGHT ZONES. CONTROLS SHALL BE CONFIGURED PER THE FOLLOWING (UON):
 7.1.1. LIGHTS IN PRIMARY, SECONDARY, AND TOPLIGHT DAYLIGHT ZONES SHALL EACH BE CONTROLLED INDEPENDENTLY OF EACH OTHER.
- 7.1.2. CALIBRATION MECHANISMS SHALL BE IN A LOCATION WITH READY ACCESS AND SHALL BE CALIBRATED BY AUTHORIZED PERSONNEL ONLY.
 7.1.3. DAYLIGHT RESPONSIVE CONTROLS SHALL DIM LIGHTS CONTINUOUSLY FROM FULL LIGHT OUTPUT TO 15 PERCENT OF FULL LIGHT OR LOWER; TIME DELAY
- CIRCUITS SHALL BE INCORPORATED TO PREVENT CYCLING OF LIGHT LEVEL CHANGES LESS THAN THREE MINUTES.

8. EXTERIOR LIGHTING SHALL BE CONFIGURED PER THE FOLLOWING (UON):

- 8.1. LIGHTS SHALL BE CONFIGURED TO AUTOMATICALLY TURN OFF WHEN DAYLIGHT IS PRESENT AND SATISFIES THE LIGHTING NEEDS. (C405.2.9.1)
- 8.2. BUILDING FACADE AND LANDSCAPE LIGHTING SHALL BE CONFIGURED TO AUTOMATICALLY SHUT OFF FOR A MINIMUM OF 6 HOURS OR FROM ONE HOUR AFTER BUSINESS CLOSING TO NOT EARLIER THAN ONE HOUR BEFORE BUSINESS OPENING PER NIGHT EXCEPT WHERE AUTOMATIC SHUTOFF WOULD ENDANGER SAFETY OR SECURITY. (C405.2.9.2)
- 8.3. LIGHTING SETBACK (C405.2.9.3) SHALL COMPLY WITH THE FOLLOWING:
- 8.3.1. LUMINIARES SERVING OUTDOOR PARKING AREAS WITH A WATTAGE GREATER THAN 40 WATTS AND A MOUNTING HEIGHT OF LESS THAN 24 FEET ABOVE GROUND SHALL BE CONTROLLED SO THE TOTAL WATTAGE IS REDUCED BY NOT LESS THAN 50 PERCENT DURING ANY TIME WHERE ACTIVITY HAS NOT BE DETECTED FOR 15 MINUTES OR MORE.
- 8.3.2. ALL OTHER LIGHTING SHALL BE CONTROLLED SO THAT THE TOTAL WATTAGE IS AUTOMATICALLY REDUCED BY NOT LESS THAN 50 PERCENT FROM NOT LATER THAN 12 MIDNIGHT TO 6AM, FROM NOT LATER THAN ONE HOUR AFTER BUSINESS CLOSING TO NOT EARLIER THAN ON HOUR BEFORE BUSINESS OPEN, OR DURING ANY PERIOD WHEN NO ACTIVITY HAS BEEN DETECTED FOR 15 MINUTES OR MORE.

NETWORKED LIGHTING CONTROLS

- 9. 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, AND SET UP INSTRUCTIONS.
 9.1. PROVIDE ALL LOW VOLTAGE WIRING AS REQUIRED FOR CONTROL DEVICE INTERCONNECTIONS.
- 10. 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.
- 11. SEQUENCE OF OPERATIONS SHALL BE CODE MINIMUM UON ON PLANS.

GENERAL LIGHTING NOTES

LUMINAIRES

- 1. ALL FIXTURES SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- 2. 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.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR EQUIPPING ALL FIXTURES WITH THE EXACT LAMPS SPECIFIED IN THE FIXTURE SCHEDULE OR AN EQUIVALENT APPROVED BY ELECTRICAL DESIGNER.
- 4. WHERE FIXTURES REQUIRE REMOTE TRANSFORMERS OR BALLASTS, THE CONTRACTOR SHALL DETERMINE LOCATIONS AS REQUIRED FOR EVEN LOAD DISTRIBUTION, SERVICE ACCESS. AND VENTILATION.
- 5. WHERE APPLICABLE, THE CONTRACTOR SHALL AIM AND ADJUST LIGHTING FIXTURES AS DIRECTED BY THE LIGHTING DESIGNER UPON COMPLETION OF THE INSTALLATION.
- 6. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. REFERENCE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FIXTURES AND DEVICES. QUESTIONS CONCERNING THE LOCATION OF FIXTURES AND DEVICES SHALL BE DIRECTED TO THE ARCHITECT.

DECORATIVE LIGHTING:

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.

EXIT SIGNS, EGRESS, AND EMERGENCY LIGHTING:

- 8. EXIT SIGNS: PROVIDE UNSWITCHED HOT. EXIT SIGN LETTERS SHALL NOT BE DIMMED OR RESPOND TO AUTOMATIC LIGHTING CONTROLS.
- 9. EMERGENCY LIGHTING FIXTURES: IN ADDITION TO SWITCH-LEG, PROVIDE UNSWITCHED HOT TO SERVE INTERNAL BATTERY AND CHARGER.

10. MEANS OF EGRESS ILLUMINATION DURING NORMAL OPERATION SHALL COMPLY WITH IBC 1008.2.1:

- 10.1. AT ANY TIME THE BUILDING IS OCCUPIED, THE MEANS OF EGRESS SHALL BE ILLUMINATED AT AN INTENSITY OF NOT LESS THAN 1 FOOTCANDLE AT THE WALKING SURFACE.
- 10.2. ALONG EXIT ACCESS STAIRWAYS, EXIT STAIRWAYS AND AT THEIR REQUIRED LANDINGS, THE ILLUMINATION SHALL NOT BE LESS THAN 10 FOOTCANDLES AT THE WALKING SURFACE WHEN THE STAIRWAY IS IN USE.

11. MEANS OF EGRESS ILLUMINATION DURING EMERGENCY OPERATION SHALL COMPLY WITH IBC 1008.3:

- 11.1. EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS NOT LESS THAN AN AVERAGE OF 1 FOOTCANDLE AND A MINIMUM AT ANY POINT OF 0.1 FOOTCANDLE.
- 11.2. THE EMERGENCY POWER SYSTEM SHALL PROVIDE POWER FOR A DURATION OF NOT LESS THAN 90 MINUTES.
- 12. DURING EMERGENCY CONDITIONS EMERGENCY LIGHTING CIRCUITS/UNIT EQUIPMENT SHALL BYPASS ALL LIGHTING CONTROLS AND ENERGIZE ALL CONNECTED LUMINAIRES
 TO PROVIDE ILLUMINATION AT FULL POWER OR TO A PRESET LOAD SHEDDING DIMMED OUTPUT. PROVIDE UL924 RELAYS/DEVICES AS REQUIRED TO BYPASS AREA
 CONTROLS. WHEN NORMAL POWER IS RESTORED, CONTROLS SHALL AUTOMATICALLY RESUME NORMAL OPERATION.
- 13. EMERGENCY LIGHTING POWER SHALL BE PROVIDED BY CONTRACTOR.

SPECIAL NOTE TO THE CONTRACTOR

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

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building Planning
Engineering Public Works
Fire Traffic

NO. DATE DESCRIPTION
12/31/24 PERMIT SET
02/20/25 STREET LIGHTING REVISIONS
04/22/25 PERMIT SET 3
07/03/25 PERMIT SET 4





DESIGNED: KAS
CHECKED: STEINKE M.
APPROVED: STEINKE M

OTH AVE W. SUITE 302 DOD, WA 98036

ROBISON 1940 PHOY ENGINEERING, INC

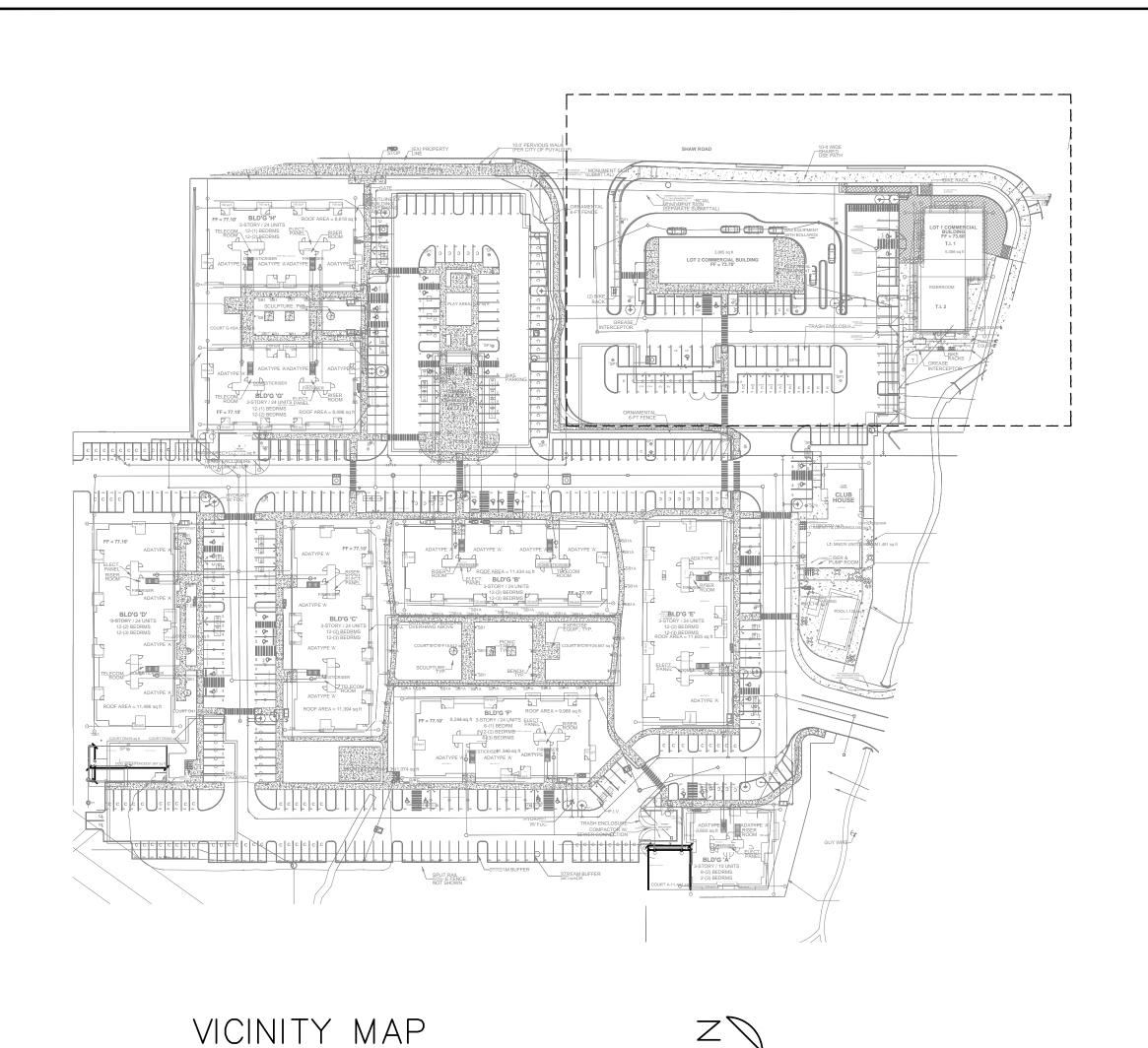
DATE: 07-03-2025

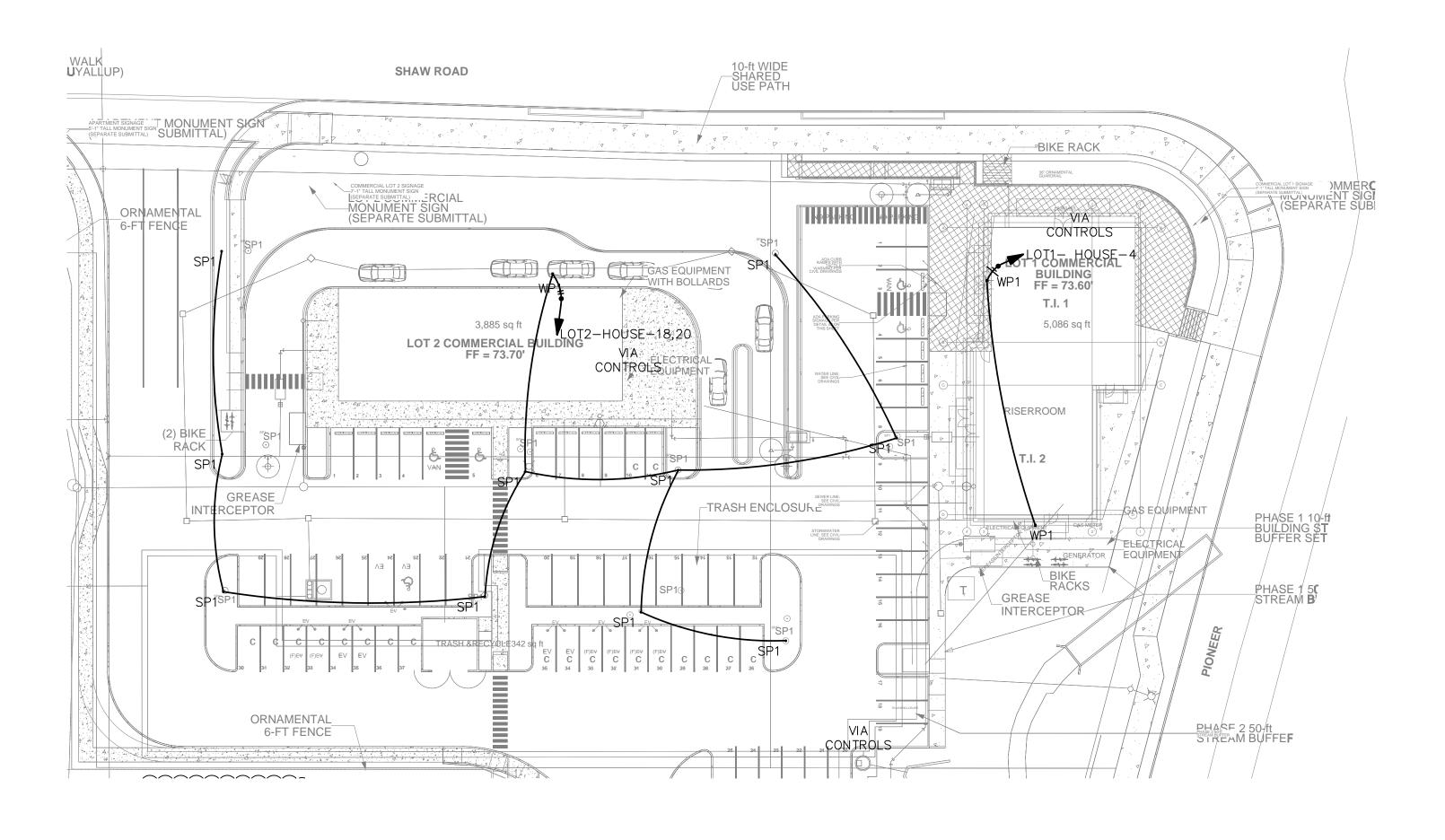
CROSSING

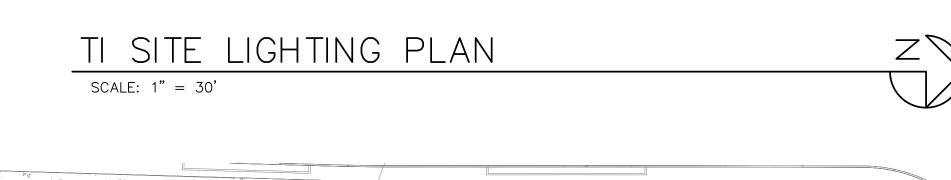
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LIGHTING NOTES

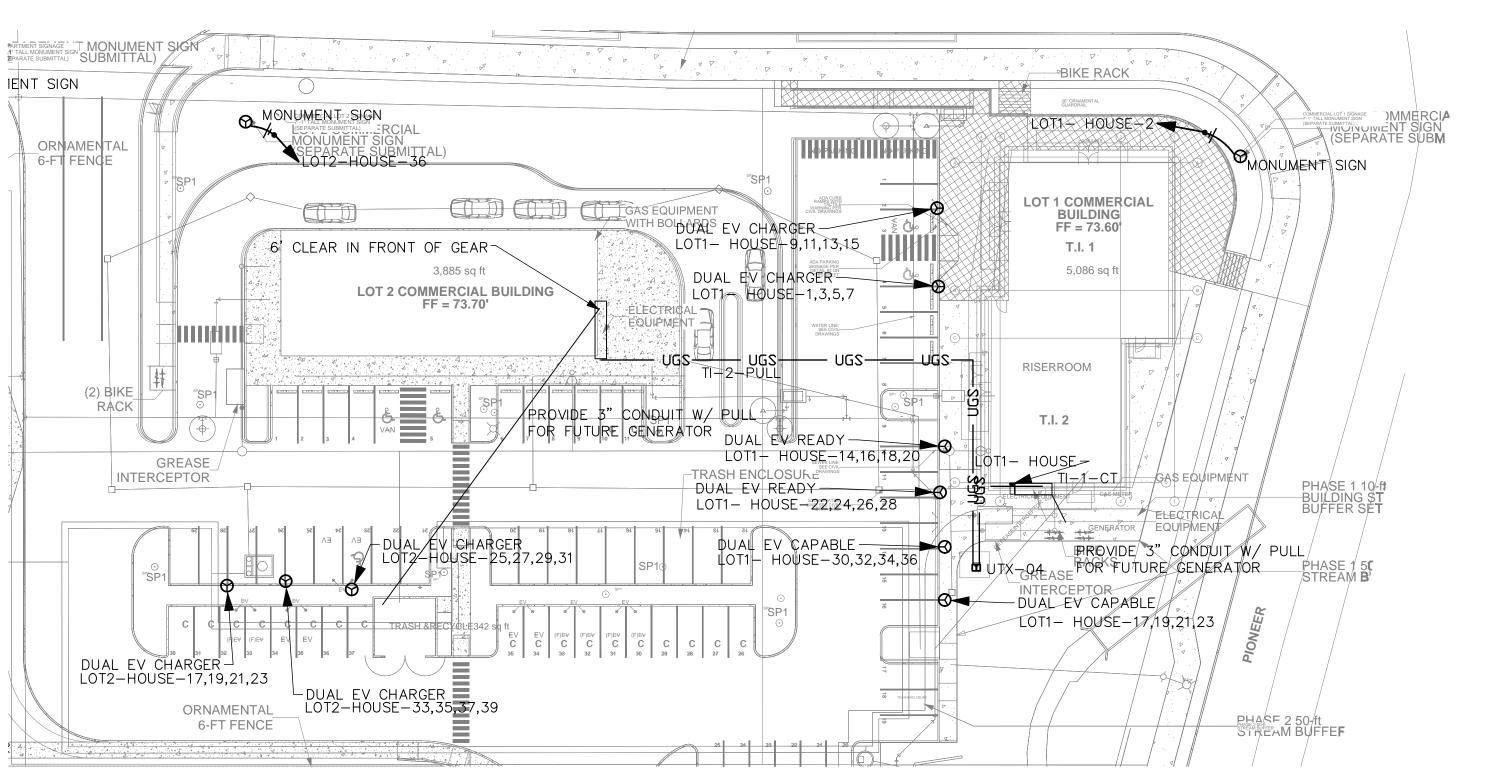
SHEET NO.

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









City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building Planning

SCALE: 1" = 30'

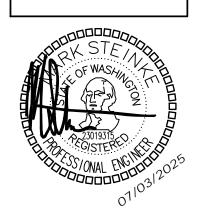
Engineering Public Works
Fire Traffic

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

DATE DESCRIPTION
12/31/24 PERMIT SET
02/20/25 STREET LIGHTING REVISIONS
04/22/25 PERMIT SET 3
07/03/25 PERMIT SET 4

PRCNC20250094





DESIGNED: KAS
CHECKED: STEINKE M.
APPROVED: STEINKE M.

19401 4OTH AVE W. SUITE 302 LYNNWOOD, WA 98036 PHONE:(206)364-3343

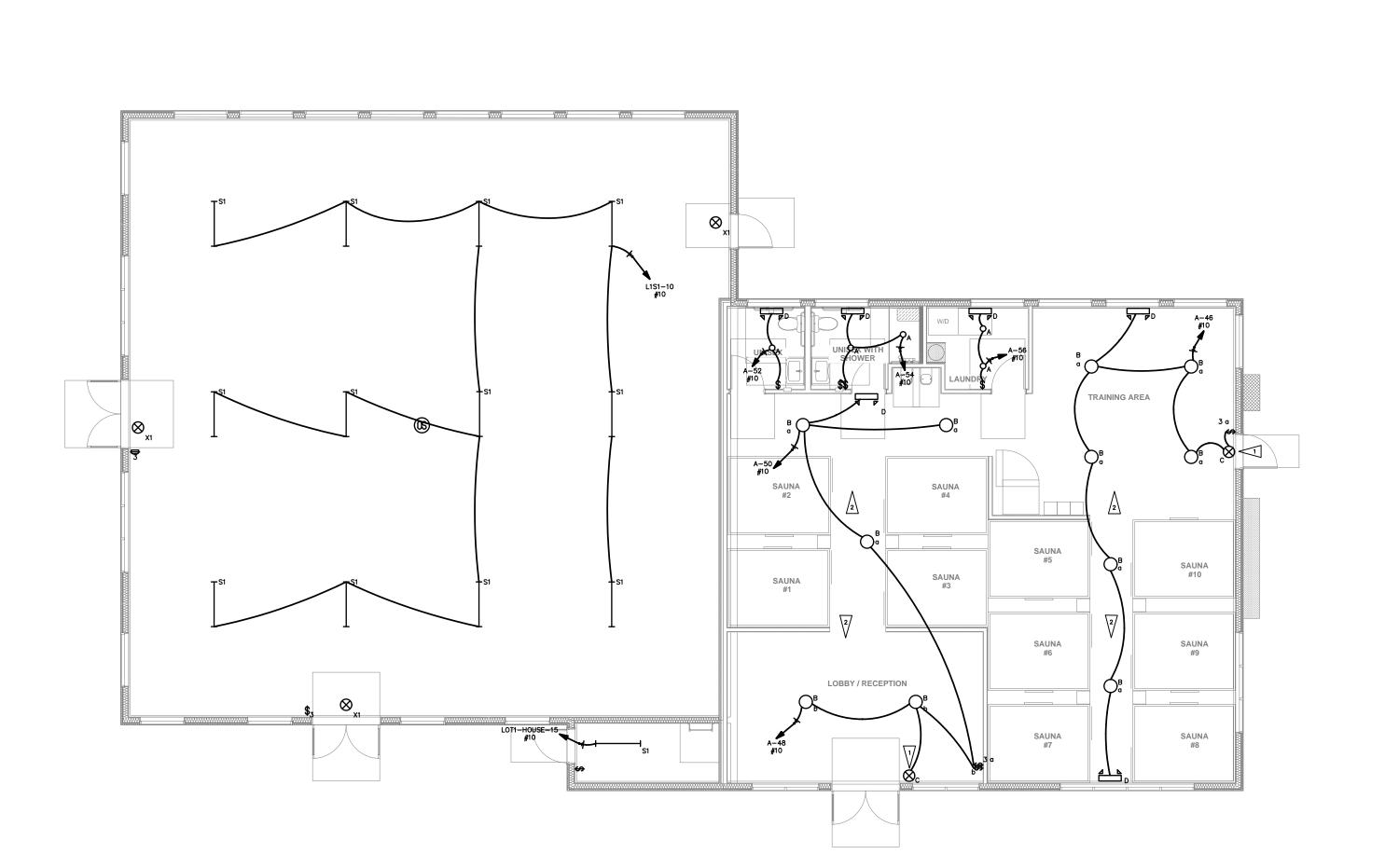
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CROSSING

ROBISON LYNNW ENGINEERING, INC

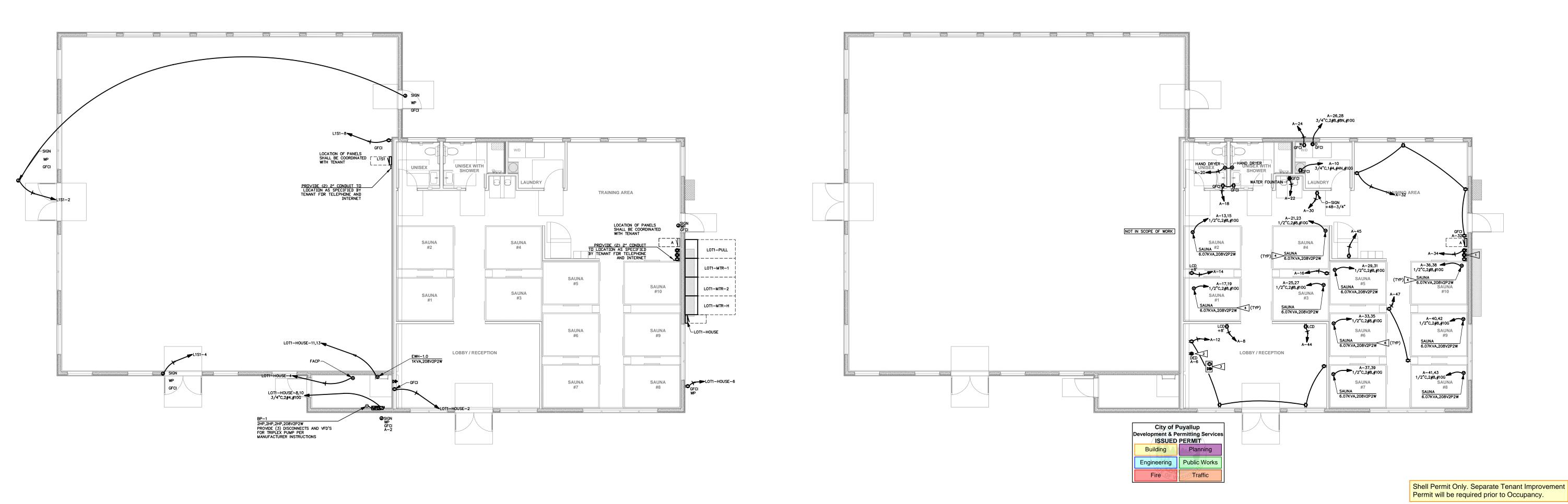
DATE: 07-03-2025

SHEET TITLE:
TI SITE LIGHTING
AND POWER PLAN

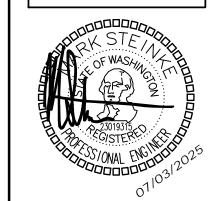


LEVEL 1 POWER & LIGHTING PLAN

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







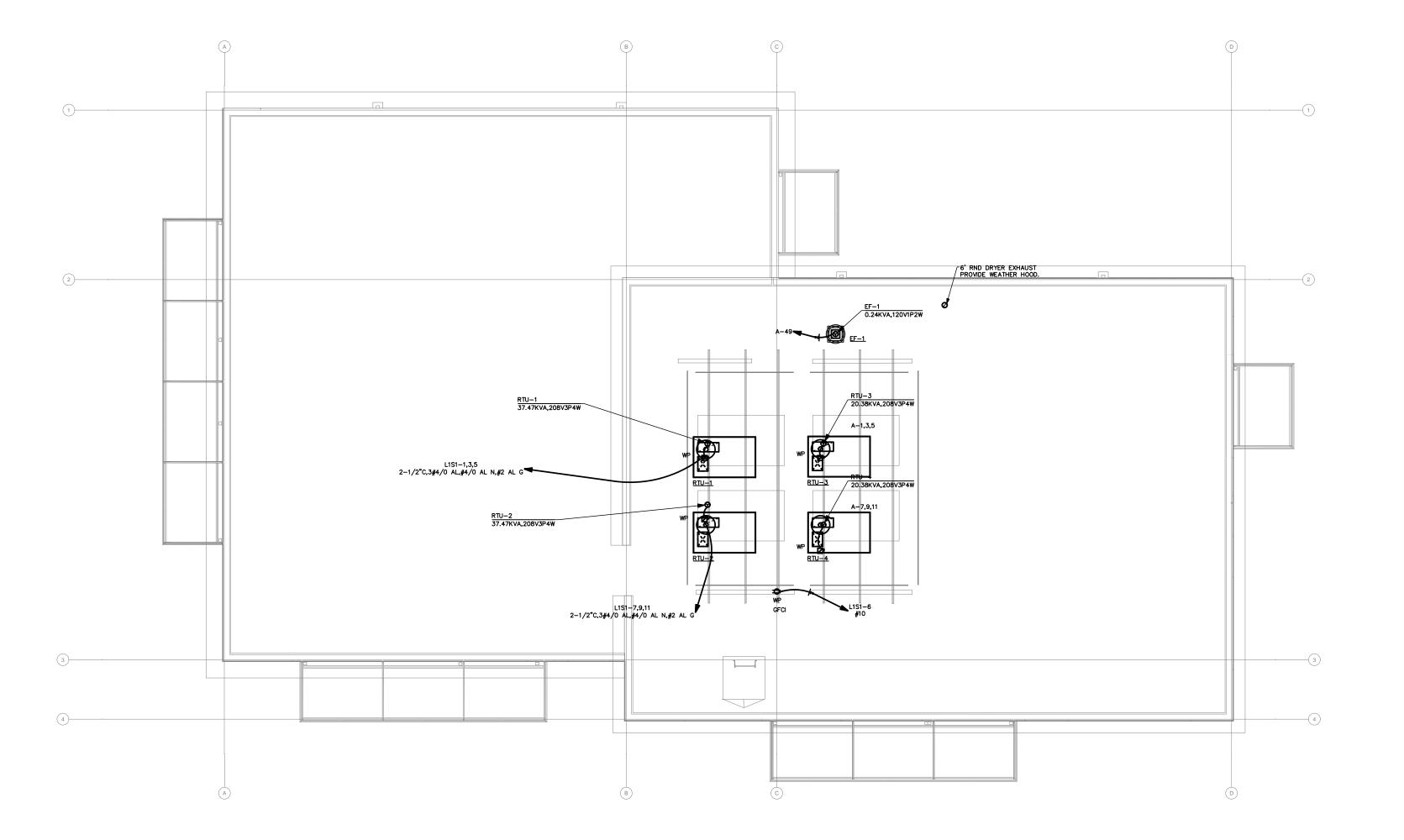
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CROSSING

07-03-2025

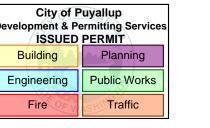
SHEET TITLE: LEVEL 1 LIGHTING AND POWER

COPYRIGHT 2022, ROBISON ENGINEERING, INC.
MSTEINKE G:_RESOURCE FOLDER\STEINKE LEAVENS TEMPLATES\APARTMENT 30X42\E1.00 LIGHTING.DWG 09-26-2022 11:30



ROOF POWER PLAN

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





07-03-2025

CROSSING LOT

SHEET TITLE: LEVEL 2/ ROOF LIGHTING AND POWER

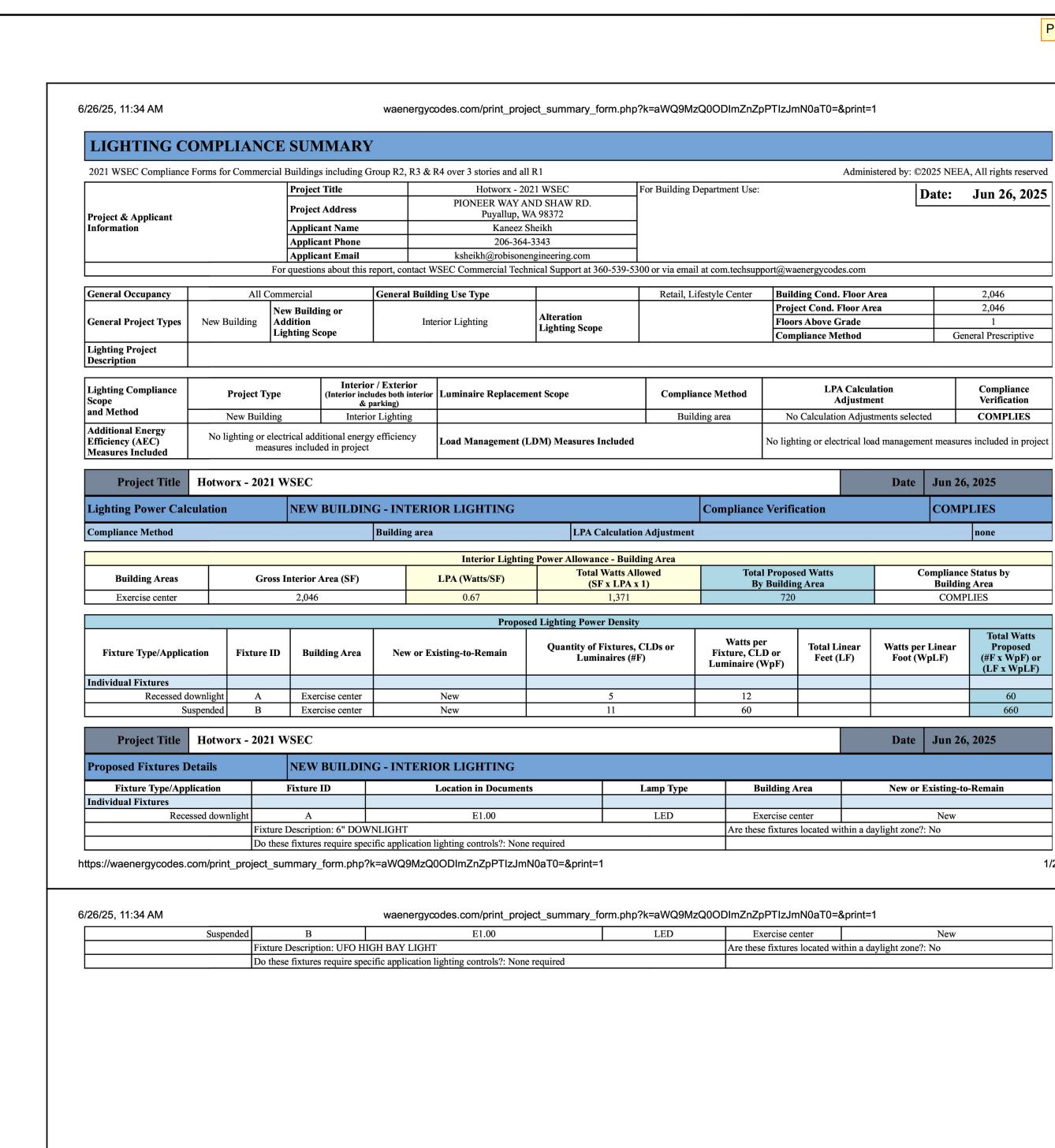
Shell Permit Only. Separate Tenant Improvement Permit will be required prior to Occupancy.



07-03-2025

CROSSING

ENERGY FORMS



Description Interior / Exterior LPA Calculation Compliance Lighting Compliance Interior includes both interior | Luminaire Replacement Scope **Compliance Method** Adjustment Verification & parking) and Method Reduced lighting power density option - 20% COMPLIES Shell & Core Interior Lighting Space by space Additional Energy Reduced lighting power density - 10% lower than LPA Efficiency (AEC) Load Management (LDM) Measures Included No lighting or electrical load management measures included in project Reduced lighting power density - 20% lower than LPA Measures Included Date | May 31, 2024 East Town Crossing - TI Lot 1 - 2021 WSEC SHELL & CORE - INTERIOR LIGHTING Compliance Verification COMPLIES lighting Power Calculation LPA Calculation Adjustment LPA x 0.8 Space by space **Interior Lighting Power Allowance - Space by Space** Total Proposed Watts (LPD + Display LPD) LPA (Watts/SF) General Space Type Specific Space Type **Gross Interior Area (SF) Compliance Status** (SF x LPA x 0.8) Electrical/mechanical 4,897 Proposed Total LPD 399 COMPLIES Totals Calculation Adjustment Applied - LPA x 0.8 3,935 **Proposed Lighting Power Density Total Watts** Proposed (#F x WpF) or Wattage Limit **Total Linear** Watts per Linear Quantity of Fixture ID Fixture Type Fixtures (#F) Feet (LF) Foot (WpLF) per Fixture (WpF) (LF x WpLF) **Individual Fixtures** 399 Horizontal surface-mount Proposed Total LPD Date | May 31, 2024 **Project Title** East Town Crossing - TI Lot 1 - 2021 WSEC roposed Fixtures Details SHELL & CORE - INTERIOR LIGHTING Fixture Type/Application Fixture ID Lamp Type New or Existing-to-Remain **Individual Fixtures** https://waenergycodes.com/print_project_summary_form.php?k=Y29tYm9fdGZ2X3B0PWx0Z19zY29wZV9uZXdfaW50ZXJpb3llN0NwZF9zaGVsbF9jb3JlJnRmdj1sdGdfc2NvcGVfbmV3X2ludGVyaW9y... 5/31/24, 1:15 PM waenergycodes.com/print_project_summary_form.php?k=Y29tYm9fdGZ2X3B0PWx0Z19zY29wZV9uZXdfaW50ZXJpb3llN0NwZF9zaGVsbF9jb3JlJnRmdj1sdGdfc2NvcGVfbmV3X2l. ixture Description: 4' LED LINEAR STRIP Are these fixtures located within a daylight zone?: Yes, controls provided Do these fixtures require specific application lighting controls?: None required Daylight zone location(s): Sidelit daylight zones (primary and/or secondary)

https://waenergycodes.com/print_project_summary_form.php?k=Y29tYm9fdGZ2X3B0PWx0Z19zY29wZV9uZXdfaW50ZXJpb3llN0NwZF9zaGVsbF9jb3JlJnRmdj1sdGdfc2NvcGVfbmV3X2ludGVyaW9y... 2/2

waenergycodes.com/print_project_summary_form.php?k=Y29tYm9fdGZ2X3B0PWx0Z19zY29wZV9uZXdfaW50ZXJpb3llN0NwZF9zaGVsbF9jb3JlJnRmdj1sdGdfc2NvcGVfbmV3X2l...

For Building Department Use:

Floors Above Grade

East Town Crossing - TI Lot 1 - 2021 WSEC

Pioneer Way & Shaw Rd.

Puyallup, WA 98372

Nick Nagy

206-364-3343

Interior Lighting

For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

Lighting Scope

Administered by: ©2024 NEEA, All rights reserved

Date: May 31, 2024

4,715

General Prescriptive

LIGHTING COMPLIANCE SUMMARY

Shell & Core

Project & Applicant

General Occupancy

General Project Types

Lighting Project

Information

2021 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1

Project Address

Applicant Name

Applicant Phone

Applicant Email

New Building or

Lighting Scope

Building Engineering Public Works https://waenergycodes.com/print_project_summary_form.php?k=aWQ9MzQ0ODImZnZpPTIzJmN0aT0=&print=1

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

2/2

1/2