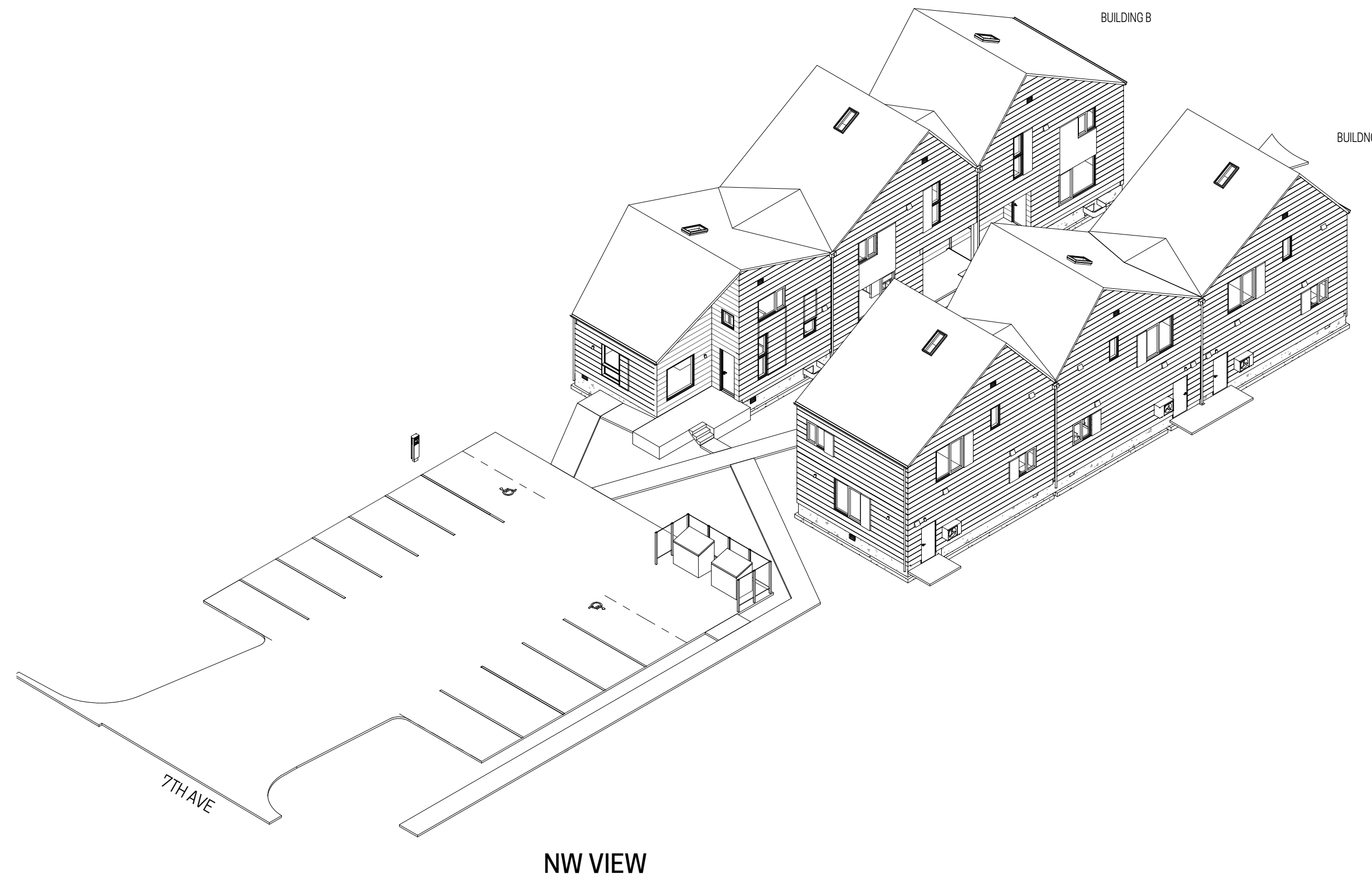
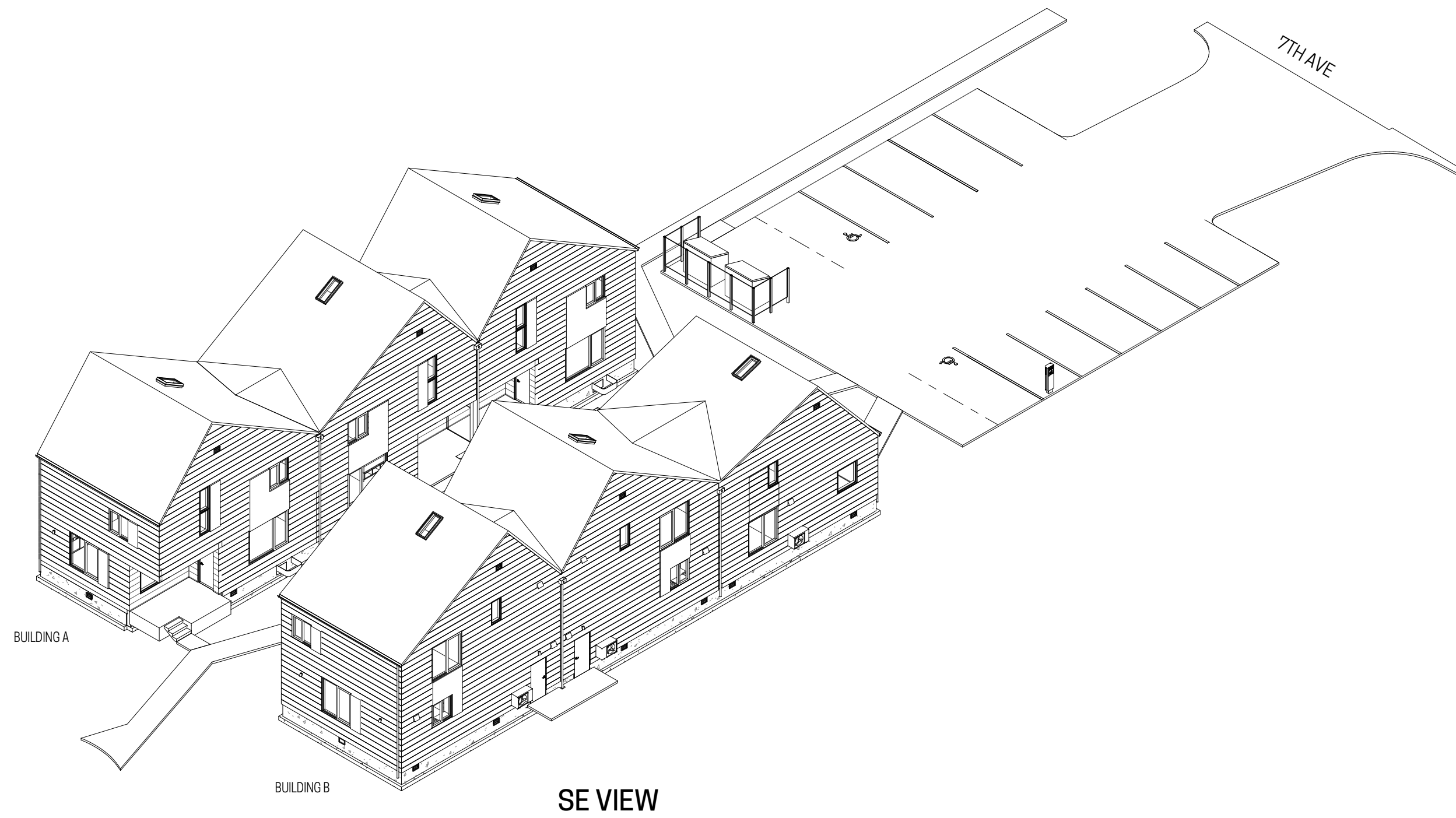


FOR AGENCY REVIEW



LAND USE CODE INFORMATION

APPLICABLE CODE	PUYALLUP MUNICIPAL CODE, TITLE 20
ZONING	RM10 (RESIDENTIAL MULTIFAMILY)
LOT AREA	20,799 SF (0.47 ACRES)
DENSITY	MINIMUM 8 UNITS/ACRE MAXIMUM 10 UNITS/ACRE
MAX. BUILDING COVERAGE	60%
MAX. BUILDING HEIGHT	28' (GRADE PLANE TO MIDPOINT OF PITCHED ROOF)
REQUIRED SETBACKS	SEE A1.0
***REFER TO A0.2 AND A1.0 FOR CALCULATIONS & DIAGRAMS	

BUILDING CODE INFORMATION

JURISDICTION	CITY OF PUYALLUP
APPLICABLE CODES	2021 INTERNATIONAL BUILDING CODE W/ WASHINGTON STATE AMENDMENTS
OCCUPANCY TYPES	R3 - RESIDENTIAL (TOWNHOUSE)
IBC CONSTRUCTION TYPE	V-B / NO SPRINKLERS
# OF ABOVE-GRADE STORIES	2
# OF DWELLING UNITS	6 TOTAL (3 UNITS IN EACH STRUCTURE)
TOTAL FLOOR AREA	BLDG A = 4,392 SF BLDG B = 3,624 SF

ARCHITECTURAL DRAWING INDEX

BUILDING B

A0.0	COVER SHEET
A0.1	GENERAL NOTES + SYMBOLS, ENERGY CODE COMPLIANCE
A0.2	ACCESSIBILITY NOTES
A0.3	FOUNDATION DIAGRAM
A1.0	SITE PLAN
A2.3	BUILDING B - MAIN LEVEL PLAN
A2.4	BUILDING B - UPPER LEVEL PLAN
A2.5	BUILDING B - ROOF PLAN
A2.11	BUILDING B - REFLECTED CEILING PLANS
A3.2	BUILDING B - EXTERIOR ELEVATIONS
A3.3	BUILDING B - EXTERIOR ELEVATIONS
A4.1	BUILDING B - SECTION
A7.2	BUILDING B - DOOR SCHEDULE
A7.3	BUILDING B - WINDOW SCHEDULE
A8.0	DETAILS FOUNDATION
A8.1	DETAILS SIDING & WINDOWS
A8.2	DETAILS SIDING & DOORS
A8.3	DETAILS FRAMING
A9.2	BUILDING B - ENLARGED PLANS + INTERIOR ELEVATIONS
A9.3	BUILDING B - ENLARGED PLANS + INTERIOR ELEVATIONS

PROJECT INFORMATION

SITE ADDRESS
1200 7TH AVE SE
PUYALLUP, WA 98372

PARCEL NUMBERS
7845001330

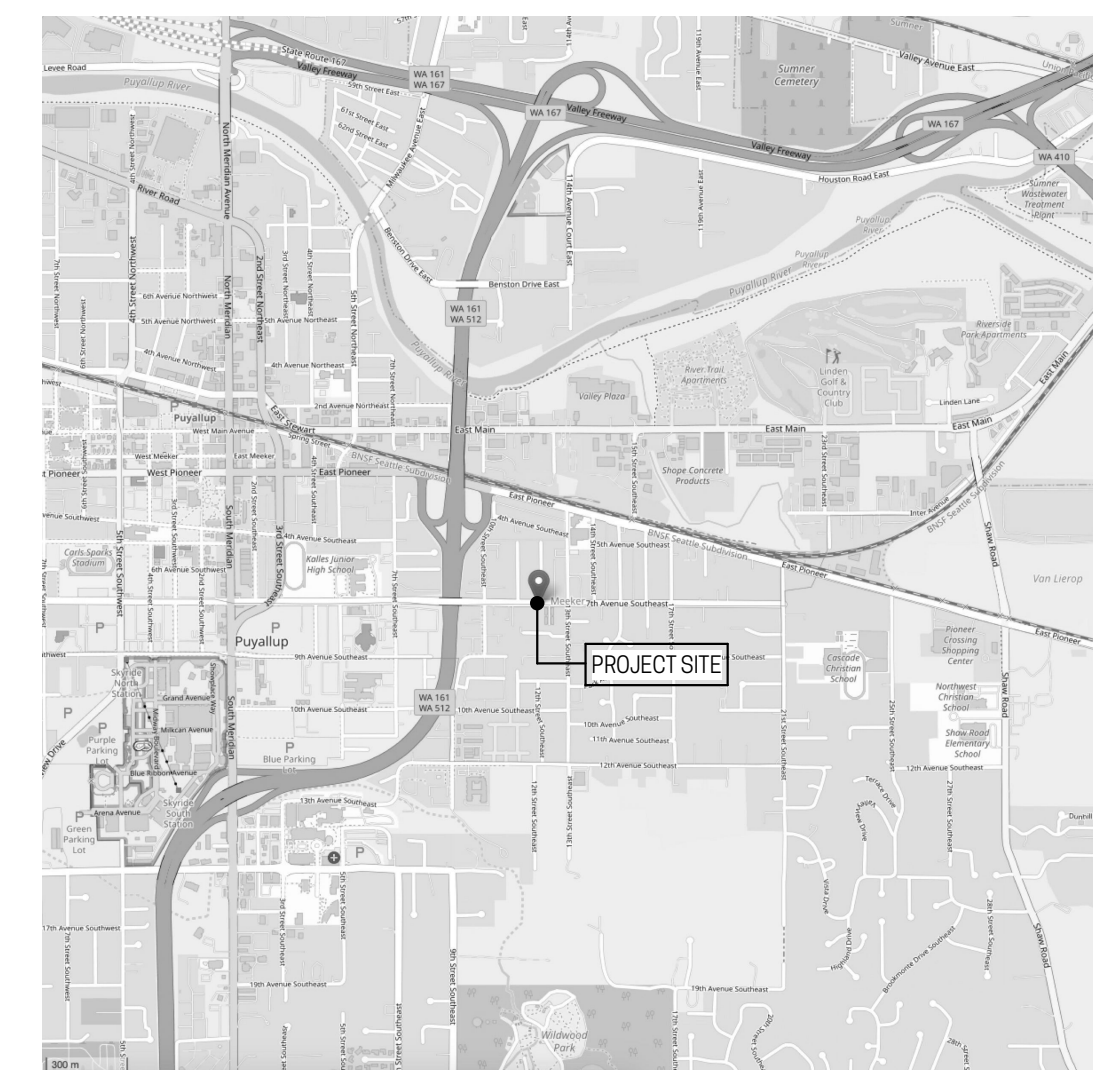
LEGAL DESCRIPTION
(PER STATUTORY WARRANTY DEED FILED UNDER RECORDING NUMBER 201910110806),
THE WEST 33 FEET OF BLOCK 77, AND THE EAST 50 FEET OF BLOCK 78, FRANK R. SPINNING'S
FIRST ADDITION TO THE TOWN OF PUYALLUP, ACCORDING TO THE PLAT THEREOF RECORDED IN
BOOK 4 OF PLATS, PAGE 86, IN PIERCE COUNTY, WASHINGTON.

SITUATE IN THE COUNTY OF PIERCE, STATE OF WASHINGTON.

PROJECT DESCRIPTION

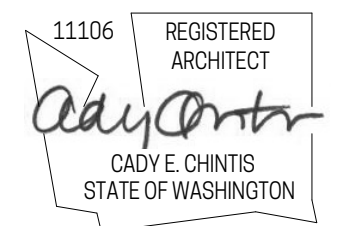
CONSTRUCT SIX TOWNHOUSE DWELLING UNITS, COMPRISED OF TWO THREE-UNIT BUILDINGS
WITH SURFACE PARKING FOR 12 VEHICLES. DWELLING UNIT TYPES INCLUDE FIVE 2-STORY
UNITS OF APPROX. 1,463 SF EACH AND ONE SINGLE-STORY TYPE 'A' ACCESSIBLE UNIT, OF
APPROXIMATELY 696 SF.

VICINITY MAP



PROJECT TEAM

OWNER VITALY KRAVCHISHIN / SEATAC ENTERPRISE LLC 10019 SE 226TH PLACE KENT, WA 98031 PHONE: 253-932-7303	SURVEYOR & CIVIL ENGINEER C.E.S. NW, INC. 429 29TH STREET NE, SUITE D PUYALLUP, WA 98372 PHONE: 253-848-4282
ARCHITECT WC STUDIO PLLC 1522 6TH AVENUE #1 TACOMA, WA 98405 PHONE: 734-834-5509	GEOTECHNICAL ENGINEER EARTH SOLUTIONS NS 15365 NE 90TH STREET, SUITE 100 REDMOND, WA 98052 PHONE: 425-449-4704
STRUCTURAL ENGINEER PB STRUCTURES PO BOX 354 MAPLE VALLEY, WA 98038 PHONE: 425-691-0443	LANDSCAPE PROFESSIONAL THE CREATIVE GARDENER TACOMA, WA PHONE: 253-225-5187
ELECTRICAL ENGINEER CROSS ENGINEERS 923 MARTIN LUTHER KING JR. WAY TACOMA, WA 98405 PHONE: 253.759.0118	MECHANICAL & PLUMBING ENGINEER HV ENGINEERING, INC. 6912 220TH STREET SW, SUITE 103 MOUNTLAKE TERRACE, WA 98043 PHONE: 206-706-9669



1522 6th Avenue #1
Tacoma, WA 98405
206-371-5152

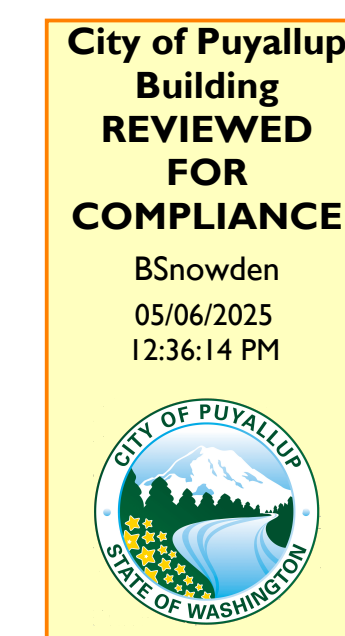
**7TH AVE TOWNHOMES
BUILDING B**

1200 7TH AVE SE
PUYALLUP, WA 98371

ISSUE	DATE
BLDG PERMIT APPLICATION	03/06/2025
PERMIT COMMENTS	04/29/2025

COVER SHEET

A0.0



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

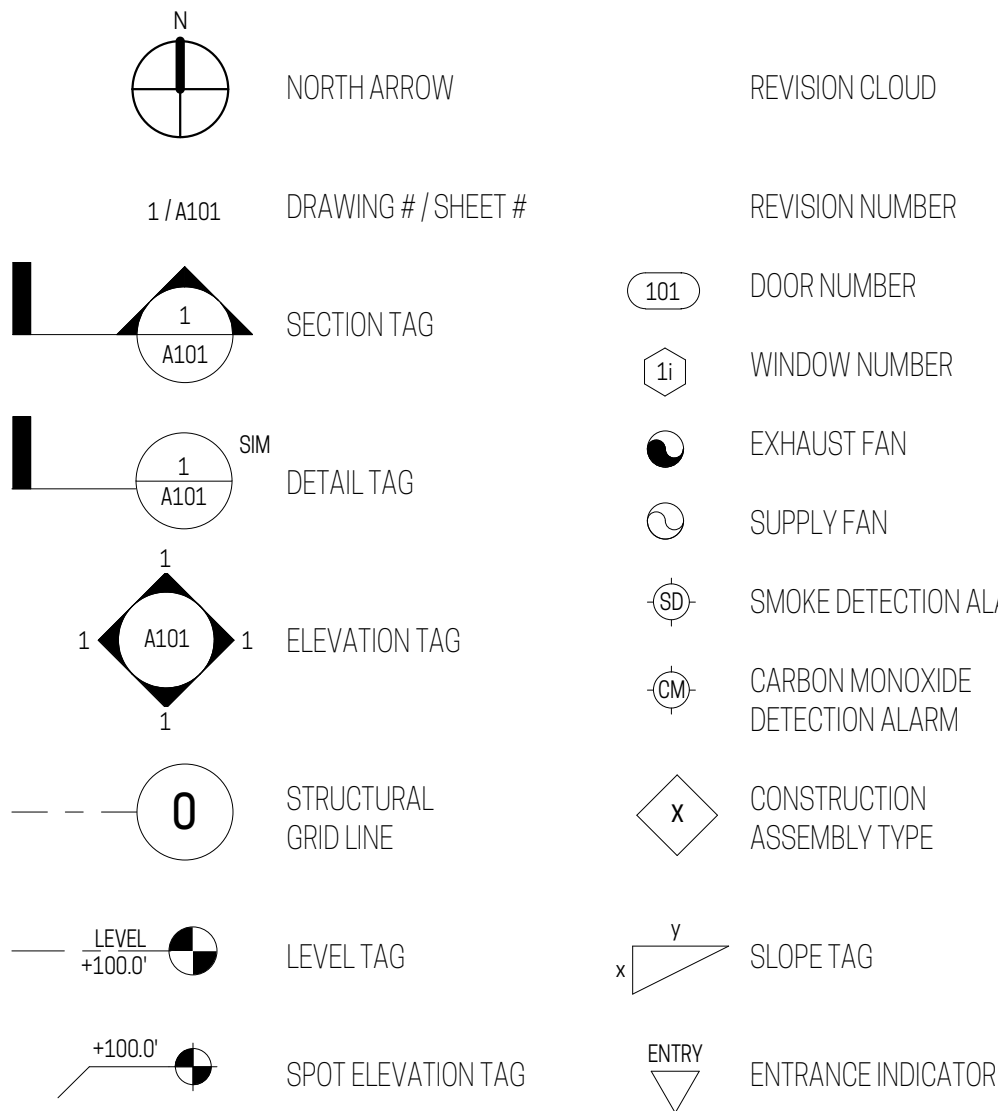
Full sized legible color plans are required to be provided by the permittee on site for inspection.

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

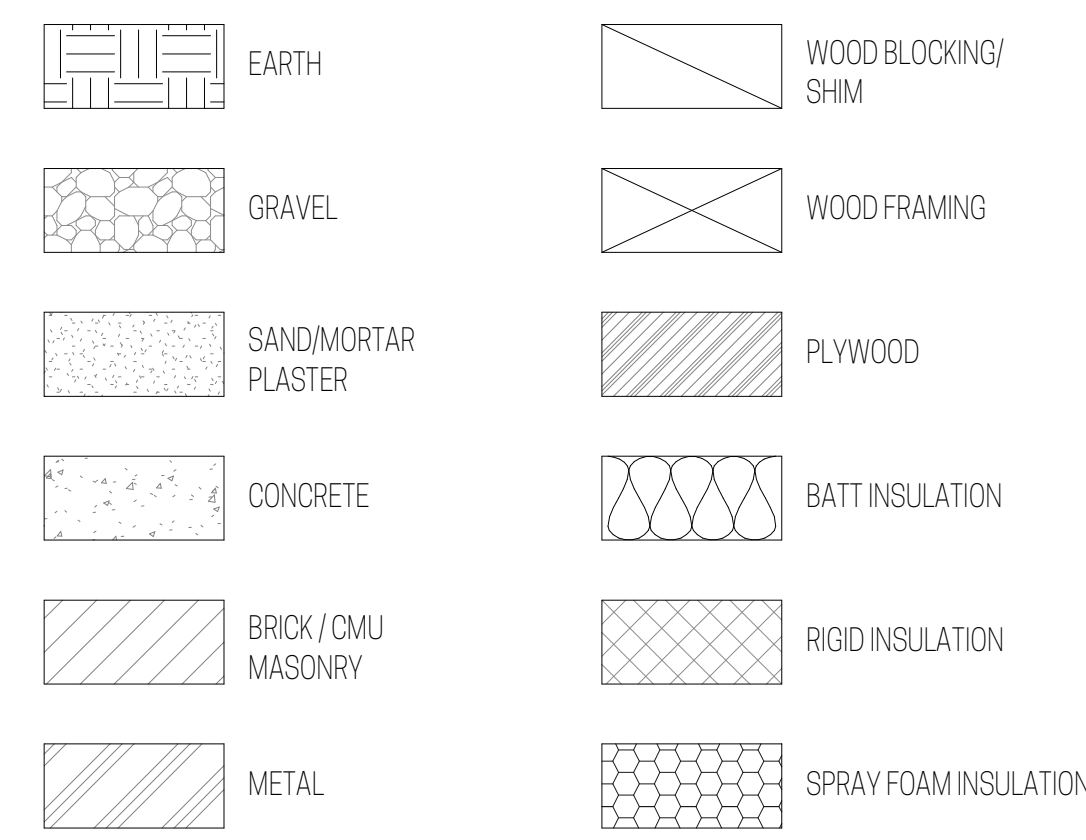
ABBREVIATIONS

AB	ANCHOR BOLT	N/A	NOT APPLICABLE
ADJ	ADJUSTABLE	NOM	NOMINAL
AFF	ABOVE FINISH FLOOR	NIC	NOT IN CONTRACT
ALT	ALTERNATE	NTS	NOT TO SCALE
AVG	AVERAGE		
		O/	OVER
BD	BOARD	OC	ON CENTER
BSMT	BASEMENT	OH	OVERHANG
BLDG	BUILDING	OD	OUTSIDE DIAMETER
		O.A.	OVERALL
CAB	CABINET	PNL	PANEL
CB	CATCH BASIN	PERF	PERFORATED
CLG	CEILING	P-LAM	PLASTIC LAMINATE
CTRD	CENTERED	PWD	PLYWOOD
CLR	CLEAR	PT	PRESSURE TREATED
CLD	CLOSET	PTD	PAINTED
CMU	CONCRETE MASONRY UNIT	PL	PLACES, PLATE
COL	COLUMN		
CONST	CONSTRUCTION	QTR	QUARTER
CONC	CONCRETE		
CONT	CONTINUOUS		
CPT	CARPET	R	RISER
		RAD	RADIUS
		RECT	RECTANGLE
DET,DTL	DETAIL	REFR	REFRIGERATOR
DIA	DIAMETER	REINF	REINFORCEMENT
DIM	DIMENSION	REPL	REPLACE
DBL	DOUBLE	REQD	REQUIRED
DH	DOUBLE HUNG	RH	RIGHT HAND
DN	DOWN	RM	ROOM
DS	DOWNSPOUT	RO	ROUGH OPENING
DW	DISHWASHER	R/R	RISE OVER RUN (STAIR)
		R&S	ROD & SHELF
EA	EACH	SC	SOLID CORE
ELEC	ELECTRICAL	SF	SQUARE FEET
EL,ELEV	ELEVATION	SG	SAFETY GLAZING
EQ	EQUAL	SEP	SEPARATE
EX, EXIST	EXISTING	SEW	SEWER
EXP	EXPOSURE	SDG	SIDING
EXT	EXTERIOR	SHT	SHEET
		SIM	SIMILAR
FFL	FINISH FLOOR LEVEL	SK	SINK
FD	FLOOR DRAIN	SOG	SLAB ON GRADE
FDN	FOUNDATION	SPEC	SPECIFICATION
FIN	FINISH	STD	STANDARD
FLR	FLOOR	SQ	SQUARE
FOB	FACE OF BRICK	SS	STAINLESS STEEL
FOC	FACE OF CONCRETE	STL	STEEL
FOCMU	FACE OF CMU	STRUCT	STRUCTURAL
FOF	FACE OF FRAMING	SUBFLR	SUBFLOOR
FOIC	FURNISHED BY OWNER & INSTALLED BY CONTRACTOR	SW	SHEAR WALL
FB	FLUSH BEAM	S4S	SURFACED 4 SIDES
FP	FIREPLACE	S1S	SURFACED 1 SIDE
FTG	FOOTING	S1S1E	SURFACED 1 SIDE 1 EDGE
GA	GALVE	T	TREAD
GALV	GALVANIZED	TEL	TELEPHONE
GFI	GROUND FAULT INTERRUPTER	TEMP	TEMPERED
GL	GLASS	T&B	TOP AND BOTTOM
GLB	GLUE-LAM BEAM	T&G	TONGUE AND GROOVE
GWB	GYPSUM WALL BOARD	TOW	TOP OF WALL
		TOS	TOP OF SLAB
H	HIGH	TPH	TOILET PAPER HOLDER
HB	HOSE BIB	TYP	TYPICAL
HC	HOLLOW CORE		
HD	HOLDDOWN	UNO	UNLESS NOTED OTHERWISE
HDW	HEADWARE		
HDR	HEADER	VB	VAPOR BARRIER
HORIZ	HORIZONTAL	VERT	VERTICAL
HR	HOUR	VG	VERTICAL GRAIN
HT	HEIGHT	VIF	VERIFY IN FIELD
HTR	HEATER	VOL	VOLUME
HWT	HOT WATER TANK		
		WC	WATER CLOSET
ID	INSIDE DIAMETER	WD	WOOD
INSUL	INSULATION	WDW	WINDOW
INT	INTERIOR	W/	WITH
		W/O	WITHOUT
JST	JOIST	WASHER & DRYER	WASHER & DRYER
		WP	WATERPROOF
LAV	LAVATORY	WHF	WHOLE HOUSE FAN
LH	LEFT HAND	WRB	WEATHER-RESISTIVE BARRIER
LL	LIVE LOAD	WWF	WELDED WIRE FABRIC
MBR	MASTER BEDROOM	#	NUMBER
MAX	MAXIMUM	@	AT
MECH	MECHANICAL		
MEMB	MEMBRANE		
MFR	MANUFACTURER		
MIN	MINIMUM		
MISC	MISCELLANEOUS		
MLDG	MOULDING		
MLT	METAL		

TYPICAL DRAWING SYMBOLS



TYPICAL MATERIAL SYMBOLS



RESIDENTIAL BUILDING CODE NOTES

EXTERIOR LIGHTING

EXTERIOR LIGHTING SHALL BE SHIELDED AND DIRECTED AWAY FROM ADJACENT PROPERTIES

SMOKE ALARMS

SMOKE DETECTORS ARE REQUIRED WHEN A PERMIT IS REQUIRED, OR WHEN ONE OR MORE BEDROOMS ADDED.
 -SMOKE DETECTORS BY 110 V INTERCONNECTED BUILDING WIRING, AND HAVE BATTERY BACK-UP IN NEW CONSTRUCTION AND ADDITIONS.
 -MAY BE BATTERY-POWERED IN ALTERATIONS OR REPAIRS EXCEPT WHEN WIRING CAN BE INSTALLED WITHOUT REMOVAL OF INTERIOR FINISHES.
 -SHEAR WALL IN SLEEPING ROOMS, OUTSIDE SLEEPING AREAS, AND ON OTHER FLOORS (INCLUDING BASEMENTS).
 -ANY ALARM MUST BE CLEARLY AUDIBLE IN ALL BEDROOMS. LOCATE ON PLANS PER CODE.

FOUNDATION DRAINS

PROVIDE DRAINS AROUND ALL CONCRETE OR MASONRY FOUNDATIONS THAT RETAIN EARTH AND ENCLOSE HABITABLE OR USABLE SPACES LOCATED BELOW GRADE.
 -DRAINAGE TILES, GRAVEL OR CRUSHED STONE DRAINS, PERFORATED PIPE OR OTHER APPROVED SYSTEMS OR MATERIALS SHALL BE INSTALLED AT OR BELOW THE AREA TO BE PROTECTED.
 -DISCHARGE SYSTEM BY GRAVITY OR MECHANICAL MEANS INTO AN APPROVED DRAINAGE SYSTEM.
 -GRAVEL OR CRUSHED STONE DRAINS SHALL EXTEND AT LEAST 1 FOOT (305 MM) BEYOND THE OUTSIDE EDGE OF THE FOOTING AND 6 INCHES (152 MM) ABOVE THE TOP OF THE FOOTING AND BE COVERED WITH AN APPROVED FILTER MEMBRANE MATERIAL. PROTECT THE TOP OF OPEN JOINTS OF DRAIN TILES WITH STRIPS OF BUILDING PAPER.
 -PERFORATED DRAINS SHALL BE SURROUNDED WITH MEMBRANE OR THE FILTER MEMBRANE SHALL COVER THE WASHED GRAVEL OR CRUSHED ROCK COVERING THE DRAIN.
 -PLACE DRAINAGE TILES OR PERFORATED PIPE ON 2 INCHES OF WASHED GRAVEL OR CRUSHED ROCK AT LEAST ONE SIEVE SIZE LARGER THAN THE TILE JOINT OPENING OR PERFORATION AND COVER WITH NOT LESS THAN 6 INCHES OF THE SAME MATERIAL.

SOUND TRANSMISSION

AIRBORNE SOUND INSULATION: SEPARATING WALLS & CLGS SHALL BE INSULATED TO STC 45 (SOUND TRANSMISSION CLASS).
 IMPACT SOUND INSULATION: ALL SEPARATING FLOOR-CLG ASSEMBLIES SHALL BE INSULATED TO IIC 50 (IMPACT INSULATION CLASS).
 JOINTS IN THE PERIMETER OF SEPARATING WALLS AND FLOOR-CEILING ASSEMBLIES SHALL BE ACOUSTICALLY SEALED WITH A PERMANENT RESILIENT MATERIAL APPROVED FOR SUCH PURPOSE.
 CONDUITS, PIPES, AND VENTS IN SUCH WALL OR FLOOR-CEILING ASSEMBLIES CAUSING VIBRATIONS SHALL BE REASONABLY ISOLATED FROM THE BUILDING CONSTRUCTION AT POINTS OF SUPPORT BY MEANS OF RESILIENT SLEEVES AND MOUNTS. ALL OTHER OPENINGS THROUGH WHICH SUCH ITEMS PASS SHALL HAVE THE EXCESS OPENING FULLY SEALED WITH INSULATING AND PERMANENTLY RESILIENT MATERIALS APPROVED FOR BOTH SOUND AND REQUIRED FIRE-RESISTANCE.
 ELECTRICAL BOXES SHALL NOT BE PLACED BACK TO BACK AND SHALL BE OFFSET BY NOT LESS THAN 12" FROM OUTLETS ON OPPOSITE WALL SURFACE. BACK AND SIDES OF BOXES SHALL BE SEALED WITH ONE-EIGHTH INCH RESILIENT SEALANT AND BACKED BY A MINIMUM OF 2" THICK MATERIAL FIBER INSULATION OR APPROVED EQUIVALENT.

GUARDS + HANDRAILS

GUARDS OR HANDRAILS SHALL BE PROVIDED ON ALL OPEN SIDES OF STAIRS OR ELEVATED PLATFORMS. GUARDS SHALL NOT BE LESS THAN 36" HIGH UNO.
 HANDRAILS SHALL BE BETWEEN 34" AND 38" ABOVE STAIR NOSING.
 OPENINGS SHALL RESTRICT A 4" DIAMETER SPHERE FROM PASSING THROUGH.
 HANDGRIP SHALL BE NOT LESS THAN 1 1/4" NOR MORE THAN 2" IN CROSS-SECTIONAL DIMENSION WITH 1-1/2" CLEARANCE FROM WALL. RETURN HANDRAILS AT ENDS.

WATER HEATER

PROVIDE SEISMIC STRAPPING AT WATER HEATER PER UPC 510.

INSULATION

ALL THERMAL AND ACOUSTIC BATT INSULATION SHALL HAVE A MAX. FLAME-SPREAD RATING OF 25 AND SMOKE DENSITY TEST OF 450 PER UBC 707. FOAM PLASTIC INSULATION SHALL HAVE A MAX. FLAME-SPREAD RATING OF 75 AND SMOKE DENSITY TEST OF 450.

FLASHING

PROVIDE ALL NECESSARY FLASHING OF MIN. 26 GA (0.019 IN.) CORROSION-RESISTANT METAL VALLEY FLASHING SHALL EXTEND 8" FROM C.L. EACH WAY AND LAP A MINIMUM OF 4" OVER AN UNDERLAYMENT OF 36" WIDE #15 BLDG. FELT.

EXHAUST OPENINGS

AIR EXHAUST OPENINGS SHALL TERMINATE AS FOLLOWS:
 -NOT LESS THAN 3' FROM PROPERTY LINES, GRAVITY AIR INTAKE OPENINGS, AND OPERABLE WINDOWS/DOORS
 -NOT LESS THAN 10' FROM MECHANICAL AIR INTAKE OPENINGS EXCEPT WHERE PART OF A FACTORY BUILT INTAKE/EXHAUST COMBINATION TERMINATION FITTING

BALANCED WHOLE HOUSE VENTILATION

SYSTEM SHALL CONSIST OF ONE OR MORE SUPPLY FANS, ONE OR MORE EXHAUST FANS, OR AN ERV/HRV WITH INTEGRAL FANS, ASSOCIATED DUCTS & CONTROLS.
 ERV/HRV SYSTEMS SHALL MEET THE REQUIREMENTS OF HVI 920.
 SYSTEM SHALL BE TESTED AND VERIFIED TO PROVIDE A TOTAL MECHANICAL SUPPLY AND EXHAUST AIRFLOW RATES SHALL BE WITHIN 10% OR 5 CFM OF EACH OTHER AND MINIMUM FLOW RATE AS FOLLOWS:

DWELLING UNITS 501 - 1000 SF SF WITH 0-1 BEDROOMS: 30 CFM CONTINUOUS
 DWELLING UNITS 1,501-2,000 SF WITH 3 BEDROOMS: 50 CFM CONTINUOUS

MINIMUM LOCAL EXHAUST RATES

KITCHENS: 100 CFM INTERMITTENT / 30 CFM CONTINUOUS
 BATH/TOILET ROOMS: 50 CFM INTERMITTENT / 20 CFM CONTINUOUS

DUCTS

EXHAUST DUCTS: EXHAUST DUCTS SHALL BE EQUIPPED WITH BACK-DRAFT DAMPERS. ALL EXHAUST DUCTS IN UNCONDITIONED SPACES SHALL BE INSULATED TO A MINIMUM OF R-4.

UNDER-FLOOR VENTILATION

THE MINIMUM NET AREA OF VENTILATION OPENINGS SHALL NOT BE LESS THAN 1 SF FOR EACH 300 SF OF UNDER FLOOR AREA. REQUIRED OPENINGS SHALL BE EVENLY PLACED TO PROVIDE CROSS-VENTILATION AND COVERED BY AN APPROVED MATERIAL.

UNDERFLOOR AREA PER DWELLING UNIT: 624 SF
 REQUIRED VENTILATION AREA PER DWELLING UNIT: 624 / 300 = 2.08 SF = 300 SQ. IN.

ROOF VENTILATION

ENCLOSED ATTICS WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE. VENTILATING OPENINGS SHALL:
 -OPEN DIRECTLY TO THE OUTSIDE
 -BE PROTECTED AGAINST THE ENTRANCE OF RAIN, SNOW, BIRDS, RODENTS, AND OTHER PESTS
 -HAVE A MINIMUM DIMENSION OF 1/16 INCH. OPENINGS WITH A MINIMUM DIMENSION LARGER THAN 1/4 INCH SHALL BE COVERED BY AN APPROVED MATERIAL.

THE TOTAL MINIMUM NET FREE VENTILATING AREA SHALL BE 1/150 OF THE VENTED SPACE.

ENCLOSED ATTIC AREA PER DWELLING UNIT: 708 SF
 REQUIRED VENTILATION AREA PER DWELLING UNIT: 708/150 = 4.72 SF

RESIDENTIAL ENERGY EFFICIENCY OPTIONS

APPLICABLE CODE: WSEC 2021

CLIMATE ZONE: 4C PIERCE

BUILDING THERMAL ENVELOPE MINIMUM REQUIREMENTS (PER TABLE R402.1.3)

MAX. U-VALUE VERTICAL GLAZING: (NFRC Rating) 0.30
 MAX. U-VALUE SKYLIGHTS: (NFRC Rating) 0.50
 MIN. R-VALUE ABOVE GRADE WALLS 20 CAVITY + 5 CONTINUOUS
 MIN. R-VALUE CEILINGS W/ ATTIC 60
 MIN. R-VALUE FLOORS OVER UNHEATED SPACE 30
 MIN. R-VALUE SLAB ON GRADE 10, 4' DEPTH

ADDITIONAL ENERGY EFFICIENCY REQUIREMENTS (WSEC R406.3)

EACH DWELLING UNIT IN A RESIDENTIAL BUILDING SHALL COMPLY WITH SUFFICIENT OPTIONS FROM TABLE R406.2 SO AS TO ACHIEVE THE FOLLOWING MINIMUM NUMBER OF CREDITS:

R-3 SMALL DWELLING UNITS < 1500 SF CONDITIONED FLOOR AREA AND < 800 SF FENESTRATION AREA REQUIRE 5.0 CREDITS

TO BE ACHIEVED USING THE FOLLOWING OPTIONS:

ENERGY EQUALIZATION CREDIT, SYSTEM TYPE 5 2.0 CREDITS
 INVERTER-DRIVEN DUCTLESS MINI-SPLIT HEAT PUMP SYSTEM IN LARGEST ZONE
 OPTION 3.5, HIGH EFFICIENCY HVAC EQUIPMENT 1.5 CREDITS
 DUCTLESS SPLIT-SYSTEM HEAT PUMP, MIN. HSPF OF 10.0
 PROVIDES HEATING TO LARGEST ZONE
 OPTION 5.6, EFFICIENT WATER HEATING 2.0 CREDITS
 NEA TIER III HEAT PUMP WATER HEATER

RESIDENTIAL ENERGY CODE NOTES

CERTIFICATE (R401.3)

A PERMANENT CERTIFICATE SHALL BE COMPLETED AND POSTED ON OR WITHIN THREE FEET OF THE ELECTRICAL DISTRIBUTION PANEL BY THE BUILDER OR REGISTERED DESIGN PROFESSIONAL.
 -THE CERTIFICATE SHALL BE COMPLETED BY THE BUILDER OR REGISTERED DESIGN PROFESSIONAL AND SHALL NOT COVER OR OBSTRUCT THE VISIBILITY OF THE CIRCUIT DIRECTORY LABEL, SERVICE DISCONNECT LABEL, OR OTHER REQUIRED LABELS.
 -THE CERTIFICATE SHALL LIST THE PREDOMINANT R-VALUES OF INSULATION INSTALLED IN OR ON CEILING/ROOF, WALLS, FOUNDATION (SLAB, BELOW-GRADE WALL, AND/OR FLOOR) AND DUCTS OUTSIDE CONDITIONED SPACES; U-FACTORS FOR FENESTRATION AND THE RESULTS FROM ANY REQUIRED DUCT SYSTEM AND BUILDING ENVELOPE AIR LEAKAGE TESTING DONE ON THE BUILDING.
 -WHERE THERE IS MORE THAN ONE VALUE FOR EACH COMPONENT, THE CERTIFICATE SHALL LIST THE VALUE COVERING THE LARGEST AREA.
 -THE CERTIFICATE SHALL LIST THE TYPES AND EFFICIENCIES OF HEATING, COOLING AND SERVICE WATER HEATING EQUIPMENT.

SLAB ON GRADE FLOORS (WSEC R402.2.9)

THE MINIMUM THERMAL RESISTANCE (R-VALUE) OF THE INSULATION AROUND THE PERIMETER OF SLAB-ON-GRADE FLOORS SHALL BE AS SPECIFIED IN TABLE R402.1.1.
 -THE INSULATION SHALL BE PLACED ON THE OUTSIDE OF THE FOUNDATION OR ON THE INSIDE OF THE FOUNDATION WALL. EXTEND INSULATION DOWNWARD FROM THE TOP OF THE SLAB FOR A MINIMUM DISTANCE AS SHOWN IN THE TABLE OR TO THE TOP OF THE FOOTING, WHICHEVER IS LESS, OR DOWNWARD TO AT LEAST THE BOTTOM OF THE SLAB AND THEN HORIZONTALLY TO THE INTERIOR OR EXTERIOR FOR THE TOTAL DISTANCE SHOWN IN THE TABLE.
 -A TWO-INCH BY TWO-INCH (MAXIMUM) PRESSURE TREATED NAILER MAY BE PLACED AT THE FINISHED FLOOR ELEVATION FOR ATTACHMENT OF INTERIOR FINISH MATERIALS.
 -INSULATION EXTENDING AWAY FROM THE BUILDING SHALL BE PROTECTED BY PAVEMENT OR BY A MINIMUM OF 10 INCHES (254 MM) OF SOIL.
 THE ENTIRE AREA OF HEATED SLAB-ON-GRADE FLOORS SHALL BE THERMALLY ISOLATED FROM THE SOIL WITH A MINIMUM OF R-10 INSULATION.

AIR LEAKAGE TESTING (WSEC R402.4)

THE BUILDING OR DWELLING UNIT SHALL BE TESTED AND VERIFIED AS HAVING AN AIR LEAKAGE RATE OF NOT EXCEEDING 4.0 AIR CHANGES PER HOUR.
 -TESTING SHALL BE CONDUCTED WITH A BLOWER DOOR AT A PRESSURE OF 0.2 INCHES W.G. (50 PASCALES).
 -WHERE REQUIRED BY THE CODE OFFICIAL, TESTING SHALL BE CONDUCTED BY AN APPROVED THIRD PARTY. A WRITTEN REPORT OF THE RESULTS OF THE TEST SHALL BE SIGNED BY THE PARTY CONDUCTING THE TEST AND PROVIDED TO THE CODE OFFICIAL.
 -TESTING SHALL BE PERFORMED AT ANY TIME AFTER CREATION OF ALL PENETRATIONS OF THE BUILDING THERMAL ENVELOPE. DURING TESTING, FOLLOW PROCEDURES AS OUTLINED IN R402.4.1.2.

CONTROLS (WSEC R403.1)

-AT LEAST ONE THERMOSTAT SHALL BE PROVIDED FOR EACH SEPARATE HEATING AND COOLING SYSTEM.

PROGRAMMABLE THERMOSTAT (WSEC R403.1.1)

WHERE THE PRIMARY HEATING SYSTEM IS A FORCED-AIR FURNACE, AT LEAST ONE THERMOSTAT PER DWELLING UNIT SHALL BE ENERGY STAR CERTIFIED AND CAPABLE OF CONTROLLING THE HEATING AND COOLING SYSTEM ON A DAILY SCHEDULE TO MAINTAIN DIFFERENT TEMPERATURE SET POINTS AT DIFFERENT TIMES OF THE DAY.
 -THE THERMOSTAT SHALL ALLOW FOR, AT A MINIMUM, A 5-2 PROGRAMMABLE SCHEDULE (WEEKDAYS/WEEKENDS) AND BE CAPABLE OF PROVIDING AT LEAST TWO PROGRAMMABLE SETBACK PERIODS PER DAY. SEE WSEC 2018 FOR SPECIFICS AND EXCEPTIONS.

ELECTRIC WATER HEATER INSULATION (WSEC R403.4.3)

ALL ELECTRIC WATER HEATERS IN UNHEATED SPACES OR ON CONCRETE FLOORS SHALL BE PLACED ON AN INCOMPRESSIBLE, INSULATED SURFACE WITH A MINIMUM THERMAL RESISTANCE OF R-10.

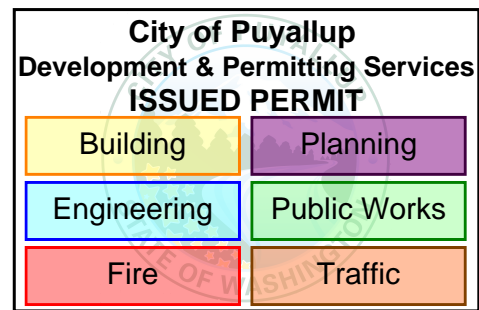
LIGHTING EQUIPMENT (WSEC R404.1)

A MINIMUM OF 90 PERCENT OF PERMANENTLY INSTALLED LAMPS IN LIGHTING FIXTURES SHALL BE HIGH-EFFICACY LAMPS.
 -FUEL GAS LIGHTING SYSTEMS SHALL NOT HAVE CONTINUOUSLY BURNING PILOT LIGHTS.

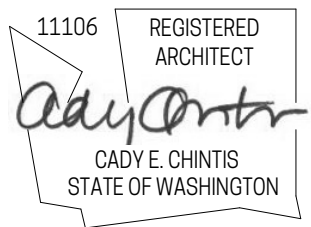
RECESSED LIGHTING (WSEC R402.4.5)

RECESSED LUMINAIRES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE TYPE IC-RATED, CERTIFIED UNDER ASTM E283 AS HAVING AN AIR LEAKAGE RATE NOT MORE THAN 2.0 CFM WHEN TESTED AT 75 PA PRESSURE DIFFERENTIAL, AND BEAR A LABEL SHOWING COMPLIANCE WITH THIS TEST METHOD. ALL RECESSED LUMINAIRES SHALL BE SEALED WITH A GASKET OR CAULK BETWEEN THE HOUSING AND THE INTERIOR WALL OR CEILING COVERING.

PRRNTH20250333



FOR AGENCY REVIEW



WC STUDIO
architects

1522 6th Avenue #1
Tacoma, WA 98405
206-371-5152

7TH AVE TOWNHOMES BUILDING B

1200 7TH AVE SE
PUYALLUP, WA 98371

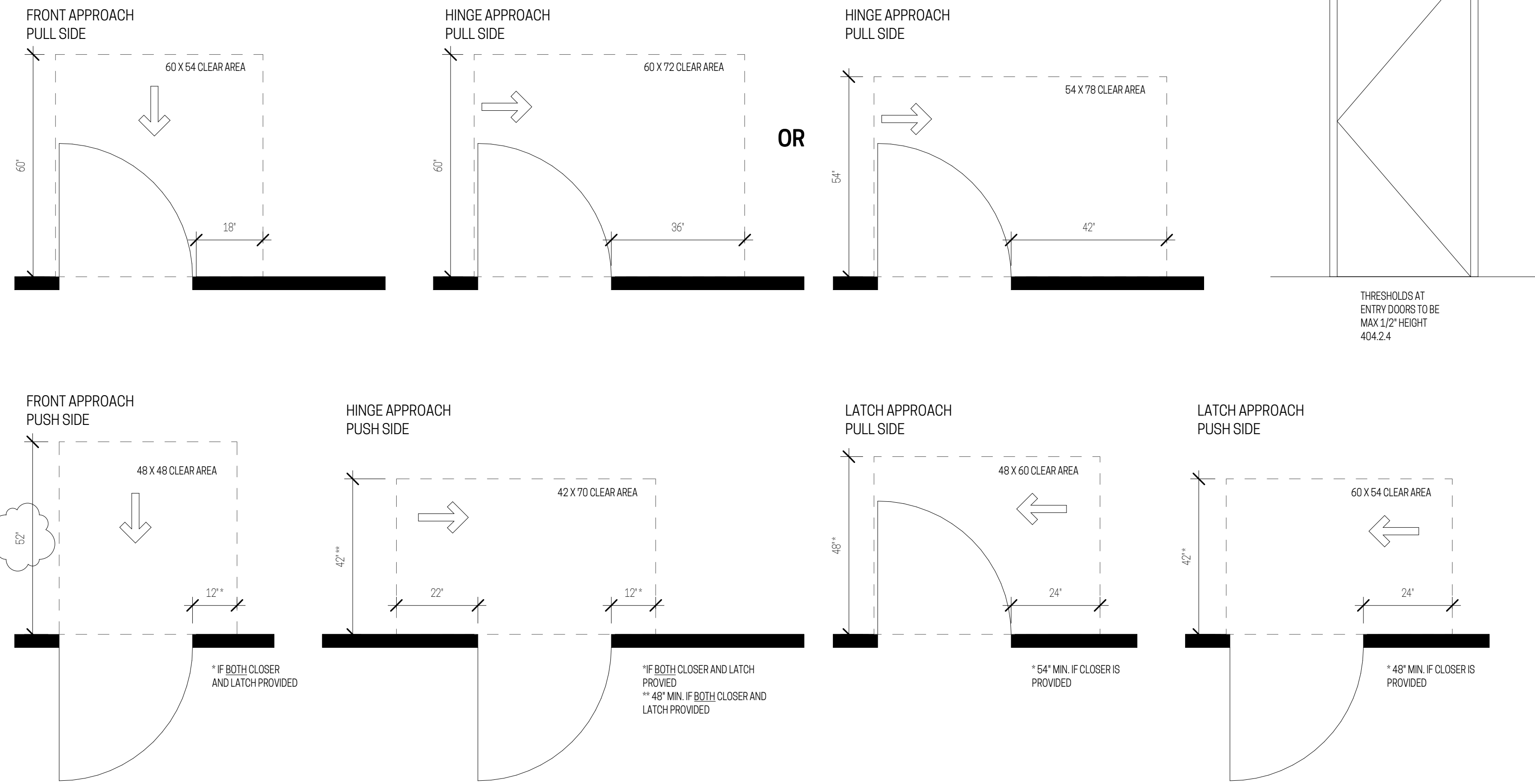
ISSUE DATE
 BLDG PERMIT APPLICATION 03/06/2025
 PERMIT COMMENTS 04/29/2025

GENERAL NOTES + SYMBOLS, ENERGY CODE COMPLIANCE

A0.1

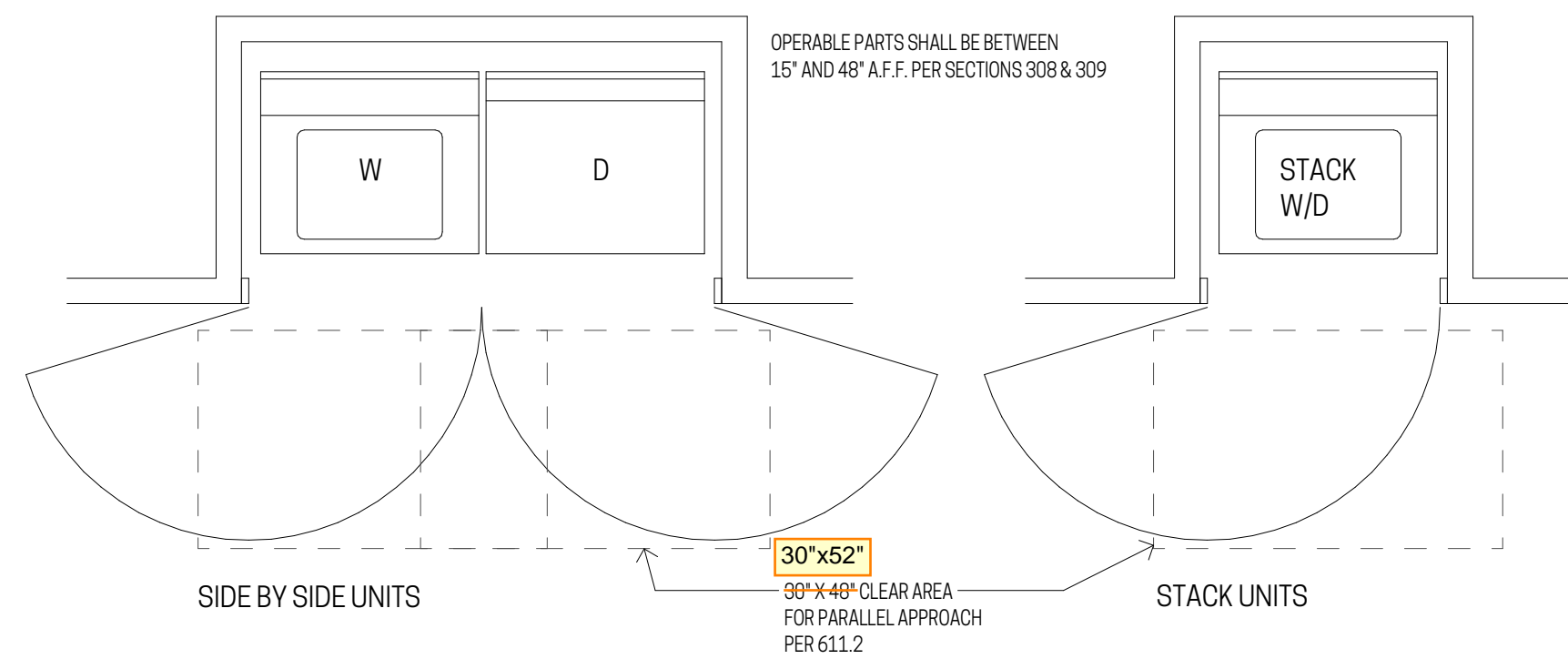
DWELLING UNIT ACCESSIBILITY NOTES - APPLIES TO UNIT B1 ONLY

1. THE ACCESSIBLE PRIMARY ENTRANCE SHALL BE ON AN ACCESSIBLE ROUTE FROM PUBLIC AND COMMON AREAS. WITHIN THE UNIT, AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ALL SPACES AND ELEMENTS. AN ACCESSIBLE ROUTE IS NOT REQUIRED TO UNFINISHED ATTICS.
2. THE MINIMUM CLEAR WIDTH OF AN INTERIOR ACCESSIBLE ROUTE SHALL BE 36 INCHES.
3. THE MINIMUM CLEAR WIDTH OF AN EXTERIOR ACCESSIBLE ROUTE SHALL BE 48 INCHES, EXCEPT THE MINIMUM CLEAR WIDTH OF AN EXTERIOR RAMP SHALL BE 36" PER 405.5.
4. RAMP SHALL HAVE LANDINGS AT THE BOTTOM AND TOP OF EACH RAMP RUN. LANDINGS SHALL HAVE A MAXIMUM SLOPE OF 1:48 AND MINIMUM CLEAR LENGTH OF 60". LANDINGS BETWEEN A RAMP DIRECTION CHANGE SHALL HAVE A MINIMUM DIMENSION OF 60" X 60".
5. IN TYPE A UNITS, TURNING SPACES SHALL BE REQUIRED IN ALL ROOMS, WITH THE EXCEPTION OF BATHROOMS IN A UNIT THAT ALREADY HAS AT LEAST ONE BATHROOM MEETING ALL THE REQUIREMENTS OF A117.1-2017 SECTION 1103.11.
6. TURNING SPACE SHALL BE EITHER CIRCULAR OR T-SHAPED SPACE. CIRCULAR SPACE SHALL BE 67" IN DIAMETER, T-SHAPED SPACE SHALL BE 64" WIDE X 60" DEEP, WITH TWO ARMS AND ONE BASE 40" MINIMUM IN WIDTH. EACH ARM SHALL EXTEND 12" MINIMUM FROM EACH SIDE OF THE BASE AND THE BASE SHALL EXTEND 20" MINIMUM FROM EACH ARM.
7. *CLEAR FLOOR SPACE IS 30" X 52" PER A117.1-2017 SECTION 305.3.
8. BOTH SIDES OF PRIMARY ENTRANCE DOORS TO ALL UNITS SHALL HAVE MANEUVERING CLEARANCES COMPLYING WITH A117.1-2017 SECTION 404.
9. IN TYPE A UNITS, ALL DOORWAYS INTENDED FOR PASSAGE SHALL HAVE MANEUVERING CLEARANCES COMPLYING WITH A117.1-2017 SECTION 404.
10. IN TYPE A UNITS, LIGHTING CONTROLS, ELECTRICAL SWITCHES AND RECEPTACLE OUTLETS, ENVIRONMENTAL CONTROLS, APPLIANCE CONTROLS, OPERATING HARDWARE FOR OPERABLE WINDOWS, PLUMBING FIXTURE CONTROLS, AND USER CONTROLS FOR SECURITY OR INTERCOM SYSTEMS SHALL BE PROVIDED WITH A CLEAR FLOOR SPACE AND BE PLACED WITHIN ONE OF THE REACH RANGES SPECIFIED IN A117.1-2017 SECTION 308. THEY SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE MAXIMUM FORCE REQUIRED TO ACTIVATE THE PARTS SHALL BE 5 POUNDS.
11. IN TYPE A UNITS OPERABLE PARTS SHALL BE PLACED BETWEEN 15" AND 48" ABOVE THE FLOOR IN AN AREA WITH UNOBSTRUCTED FORWARD OR SIDE REACH, INCLUDING APPLIANCES. WHEN THERE IS AN OBSTRUCTION OF 24" MAX WIDTH AND 34" MAX HEIGHT, OPERABLE PARTS SHALL BE NO HIGHER THAN 46" ABOVE THE FLOOR. WHEN THERE IS AN OBSTRUCTION OF 25" MAX WIDTH IN A SPACE ALLOWING A FORWARD APPROACH, THE OPERABLE PARTS SHALL BE NO HIGHER THAN 44" ABOVE THE FLOOR. OUTLETS OVER COUNTERS SHALL BE 46" MAXIMUM AFF TO THE TOP OF BOX.
12. BATHROOMS REQUIRE CLEAR FLOOR SPACES, CLEARANCES AROUND, BETWEEN, AND ADJACENT TO FIXTURES, REINFORCING FOR GRAB BARS, AND OTHER ITEMS SHOWN IN THE DRAWINGS. THE CONTRACTOR OR OWNER SHALL NOT MAKE DIMENSIONAL CHANGES TO ANY BATHROOM WITHOUT THE APPROVAL OF THE ARCHITECT.
13. BATHTUB ENCLOSURES SHALL NOT HAVE TRACKS INSTALLED ON THE RIM OF THE BATHTUB.
14. KITCHENS REQUIRE CLEAR FLOOR SPACES, CLEARANCES AROUND, BETWEEN, AND ADJACENT TO FIXTURES, APPLIANCES, CABINETS, COUNTERS AND WALLS, AND OTHER ITEMS SHOWN IN THE DRAWINGS. THE CONTRACTOR OR OWNER SHALL NOT MAKE DIMENSIONAL CHANGES TO ANY KITCHEN WITHOUT THE APPROVAL OF THE ARCHITECT.
15. IN TYPE A UNITS, WASHING MACHINES AND CLOTHES DRYER REQUIRE A CLEAR FLOOR SPACE, POSITIONED FOR PARALLEL APPROACH, CENTERED ON EACH APPLIANCE. ALL OPERABLE PARTS SHALL COMPLY WITH A117.1-2017 SECTION 309, INCLUDING THE REACH RANGES SPECIFIED IN A117.1-2017 SECTION 308. TOP LOADING MACHINES SHALL HAVE THE BOTTOM OF THE OPENING TO THE LAUNDRY COMPARTMENT BETWEEN 15" AND 34" ABOVE THE FLOOR.
16. PROVIDE BLOCKING IN ALL TYPE A & B UNITS AS INDICATED IN PLANS AND DETAILS PER A117.1-2017 SECTION 1103.11.1
17. TYPE A UNITS WITH OPERABLE WINDOWS MUST HAVE AT LEAST ONE WINDOW IN EACH LIVING, DINING AND SLEEPING SPACE WITH CONTROLS WITHIN REACH RANGE, CLEAR FLOOR SPACE TO APPROACH THE CONTROLS AND EASILY OPERABLE WITH ONE HAND AND WITH 5 POUNDS OF FORCE OR LESS.
18. TYPE A UNIT STORAGE, SUCH AS SHELVING OR RODS IN CLOSETS, SHALL HAVE CLEAR FLOOR SPACE FOR APPROACH AT EACH FACILITY, HEIGHT AND CONTROLS SHALL BE WITHIN THE REACH RANGE AND UNDER THE REQUIRED FORCE.



2 MANEUVERING CLEARANCES

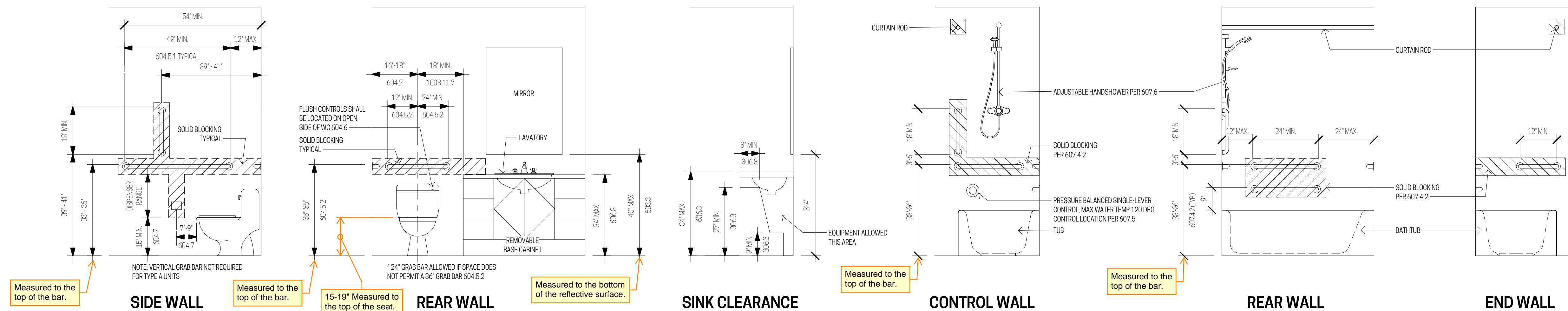
SCALE: 1/2" = 1'-0"



3 LAUNDRY FACILITIES

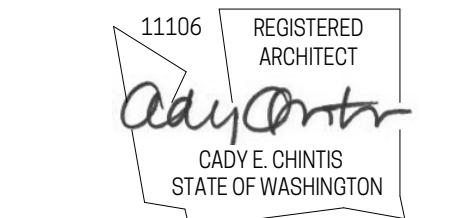
SCALE: 1/2" = 1'-0"

Note: red-lines approved by project design professional.



1 TYP. REINFORCING & MOUNTING HEIGHTS

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



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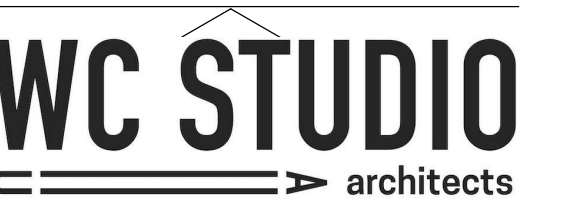
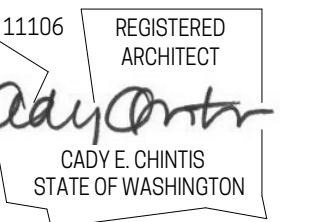
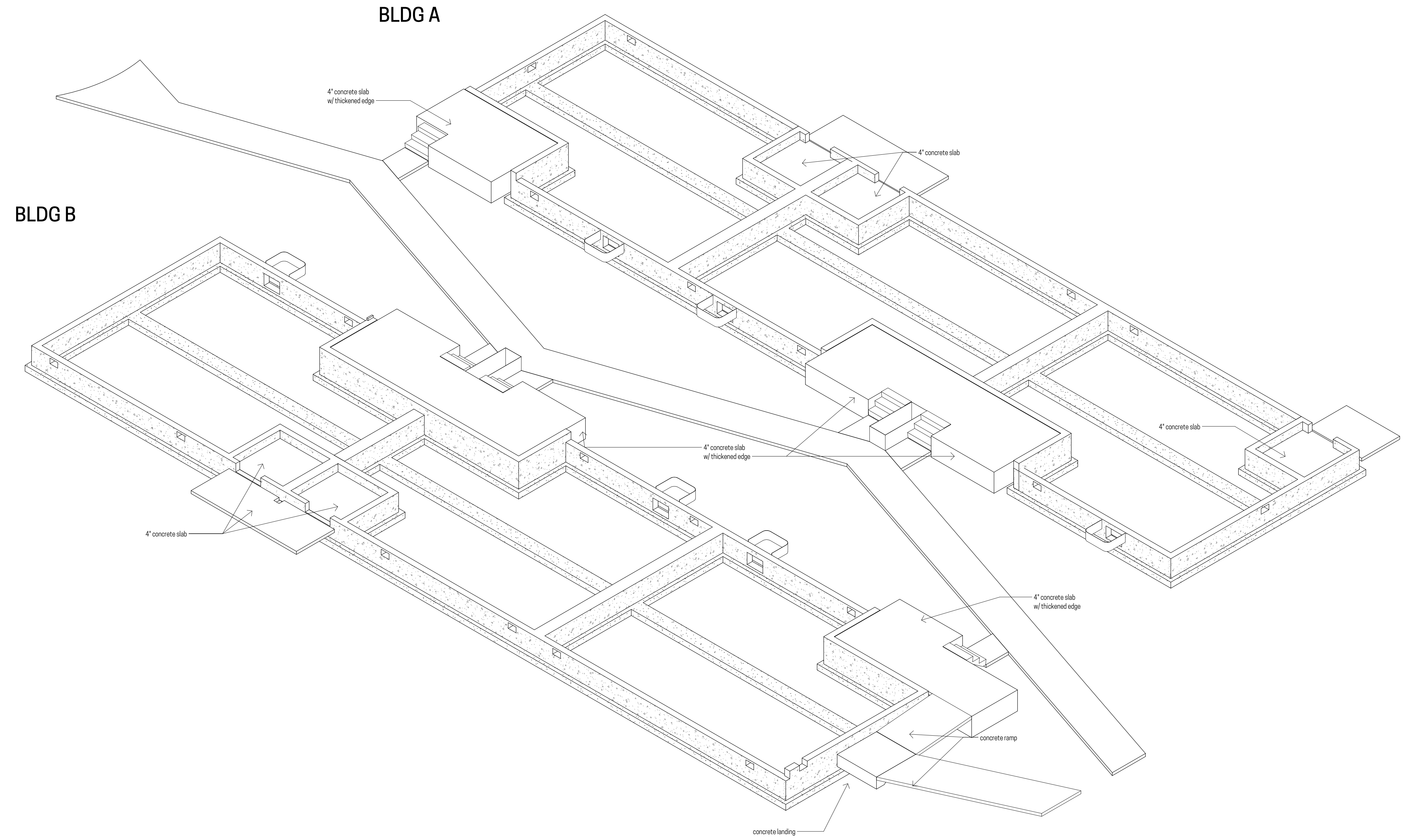
7TH AVE TOWNHOMES BUILDING B

1200 7TH AVE SE
PUYALLUP, WA 98371

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ACCESSIBILITY NOTES

A0.2



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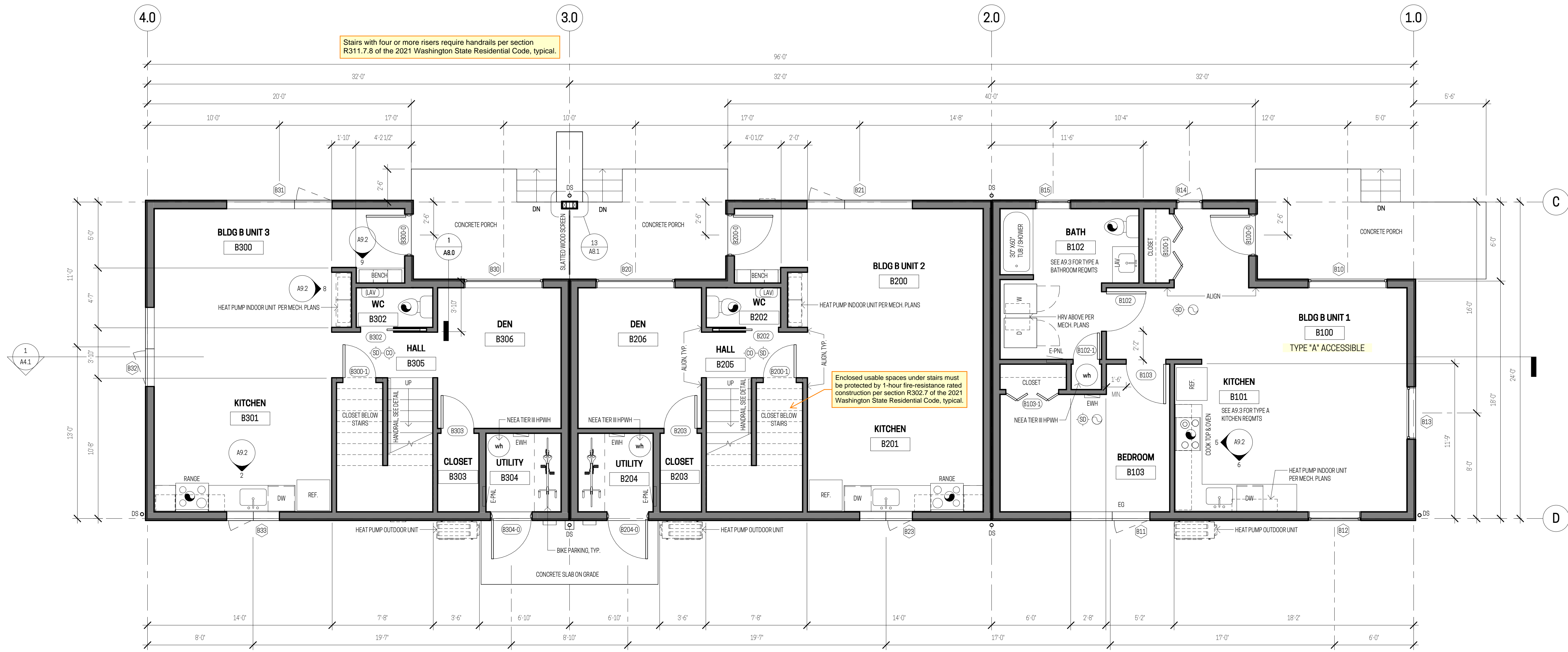
**7TH AVE TOWNHOMES
BUILDING B**

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FOUNDATION DIAGRAM

A0.3



11106 REGISTERED ARCHITECT
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Cady E. Chintis
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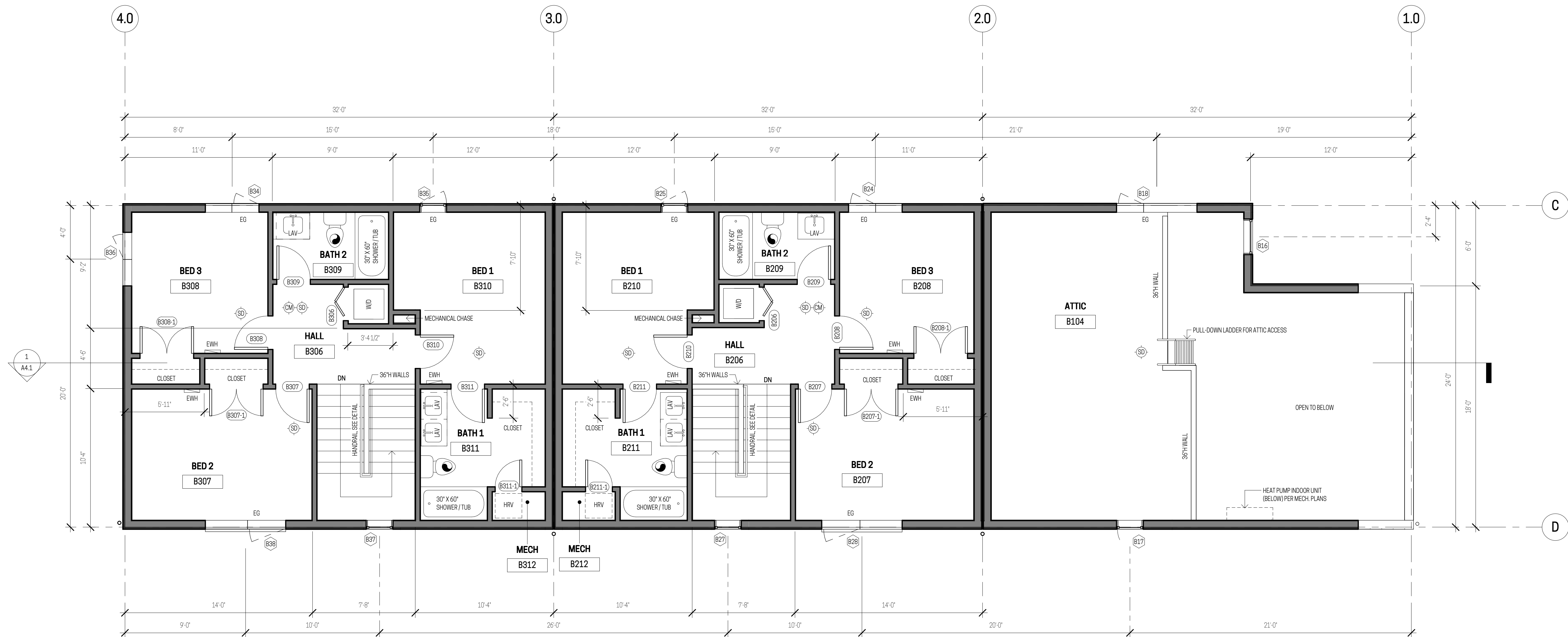
7TH AVE TOWNHOMES BUILDING B

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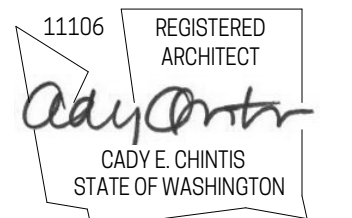
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BUILDING B - MAIN LEVEL PLAN

1 BLDG B - MAIN LEVEL
SCALE: 1/4" = 1'-0"



Fall protection will be required at the upper floor operable windows if the sill height is 24" or less above the finished floor, per section R312.2.1 of the 2021 Washington State Residential Code, typical at similar.



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7TH AVE TOWNHOMES BUILDING B

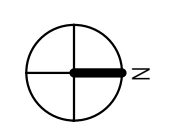
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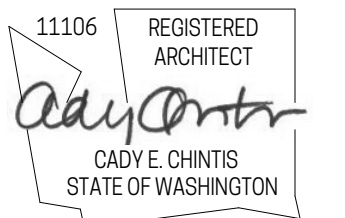
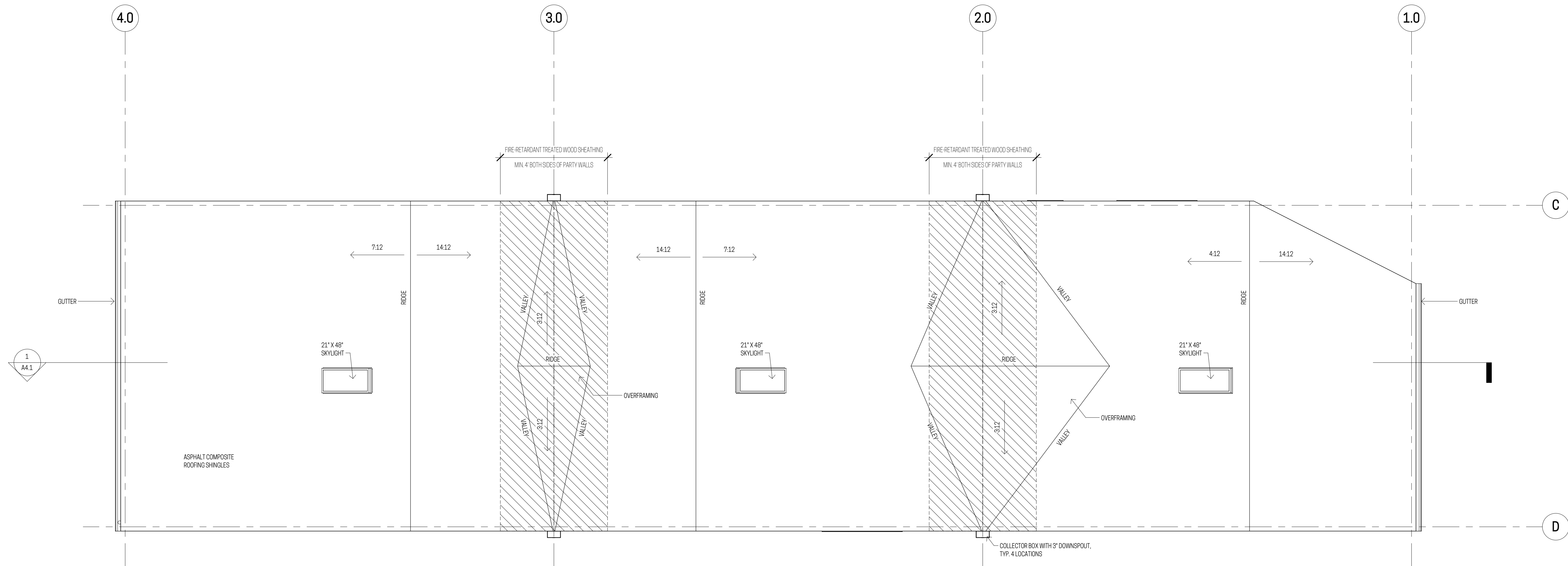
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BUILDING B - UPPER LEVEL PLAN

A2.4

1 BLDG B - UPPER LEVEL
SCALE: 1/4" = 1'-0"





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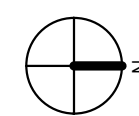
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BUILDING B**

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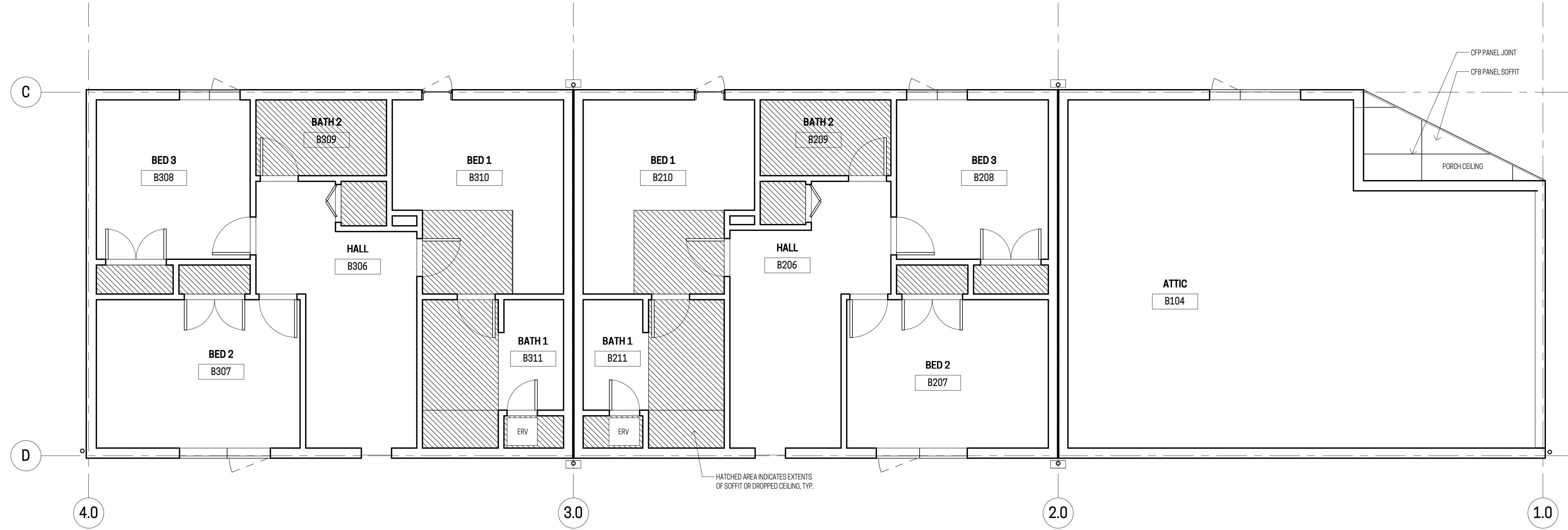
ISSUE	DATE
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1 BLDG B - ROOF PLAN
SCALE: 1/4" = 1'-0"

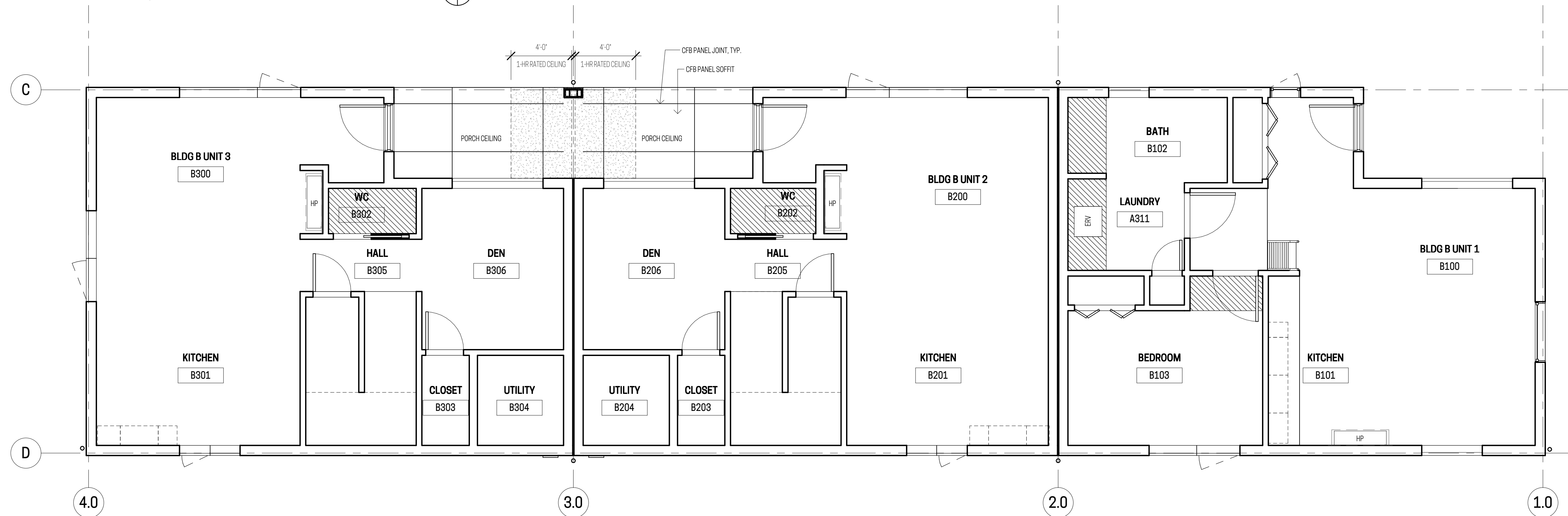


**BUILDING B - ROOF
PLAN**

A2.5

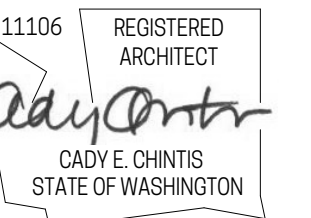


2 BLDG B - UPPER LEVEL
SCALE: 1/4" = 1'-0"



1 BLDG B - MAIN LEVEL
SCALE: 1/4" = 1'-0"

SOFFIT LEGEND



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**BUILDING B - REFLECTED
CEILING PLANS**

A2.11



1 BLDG B EAST
SCALE: 1/4" = 1'-0"

EXT. FINISH SCHEDULE

PT-1	BENJAMIN MOORE 2146-70 'BAVARIAN CREAM' EXTERIOR
PT-2	BENJAMIN MOORE CO-968 'BASIC BLUE' EXTERIOR
PT-3	BENJAMIN MOORE 2077-20 'GYPSY PINK' EXTERIOR
PT-4	BENJAMIN MOORE 2010-10 'TOMATO RED' EXTERIOR
PT-5	BENJAMIN MOORE 2023-30 'SUN PORCH' EXTERIOR
PT-6	BENJAMIN MOORE 2026-30 'SNOW CONE GREEN' EXT.
PT-7	BENJAMIN MOORE 2056-30 'SURF BLUE' EXTERIOR



2 BLDG B WEST
SCALE: 1/4" = 1'-0"

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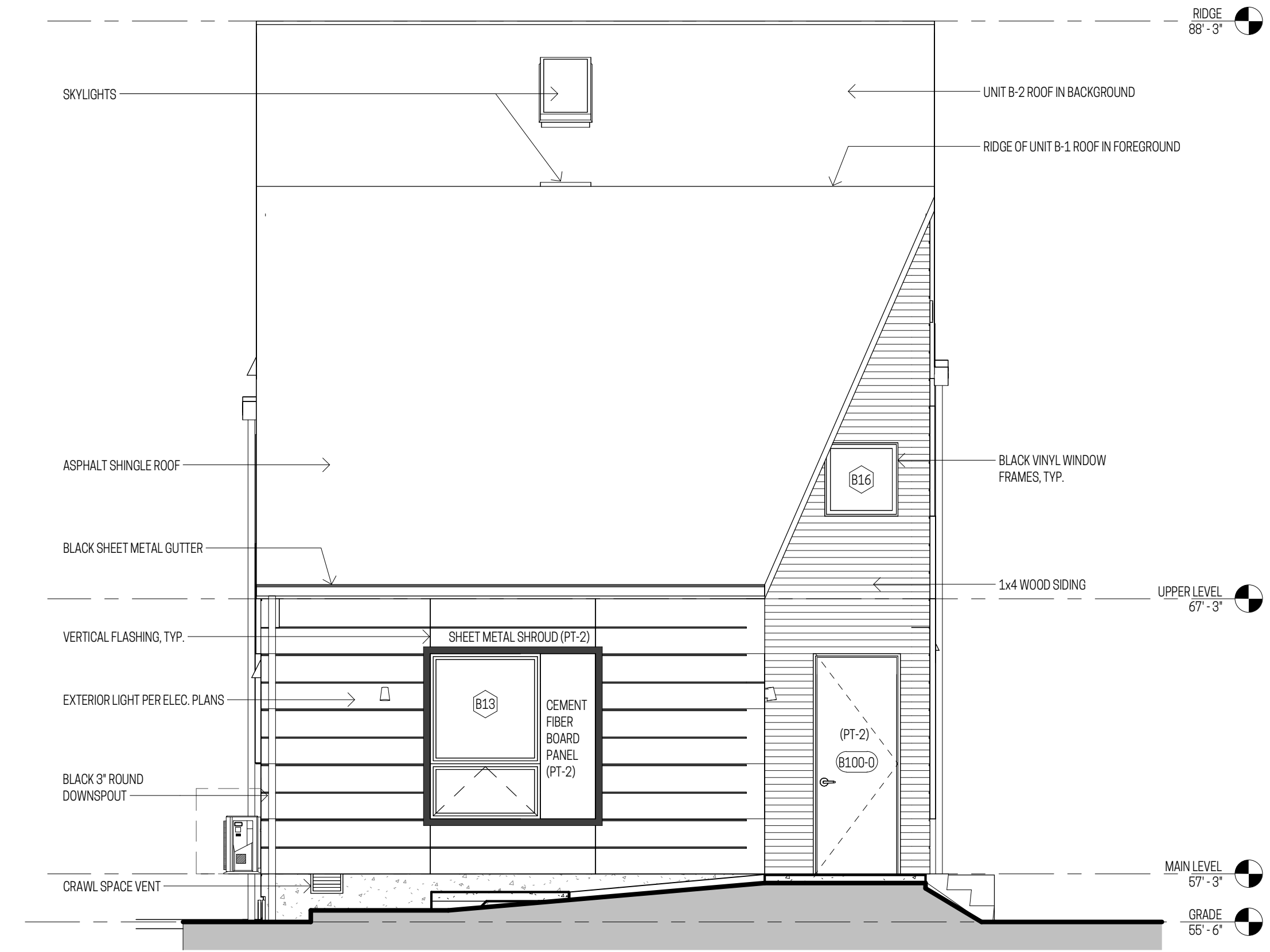
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7TH AVE TOWNHOMES
BUILDING B

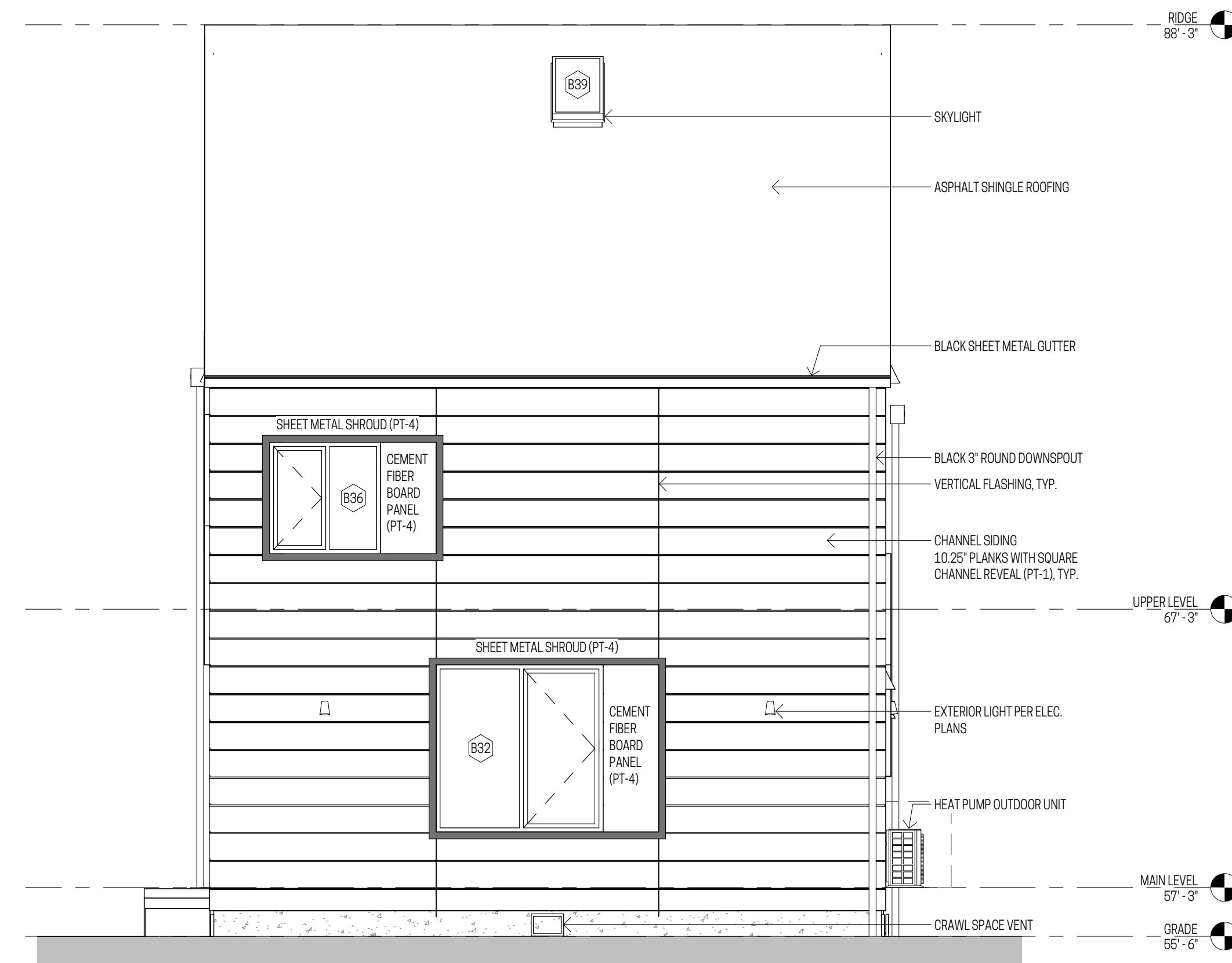
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BUILDING B - EXTERIOR
ELEVATIONS



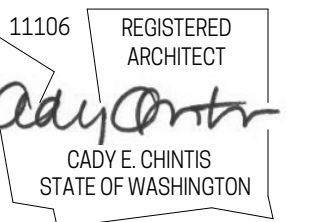
1 NORTH
SCALE: 1/4" = 1'-0"



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

EXT. FINISH SCHEDULE

PT-1	BENJAMIN MOORE 2146-70 "BAVARIAN CREAM" EXTERIOR
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BUILDING B**

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**BUILDING B - EXTERIOR
ELEVATIONS**

A3.3

SECTION KEYNOTES

- A. TYPICAL SLAB ON GRADE**
- SLAB ON GRADE PER STRUCTURAL PLANS
- R-10 INSULATION UNDER ENTIRE SLAB
- B. TYPICAL FLOOR CONSTRUCTION**
- SHEATHING PER STRUCTURAL PLANS
- FLOOR JOISTS PER STRUCTURAL PLANS
- 5/8" GYPSUM WALL BOARD AT CEILING
- R-38 BATT FIBERGLASS INSULATION OVER UNHEATED SPACE

C: NOT USED

- D. TYPICAL UNRATED EXTERIOR WALL**
- SIDING PER ELEVATIONS
- WEATHER RESISTIVE BARRIER
- R-5 INSULATED SHEATHING, TAPED SEAMS
- 2X6 ADVANCED FRAMING PER STRUCTURAL PLANS
- R-21 BATT INSULATION, R-10 AT HEADERS
- (1) LAYER 1/2" GYPSUM WALL BOARD

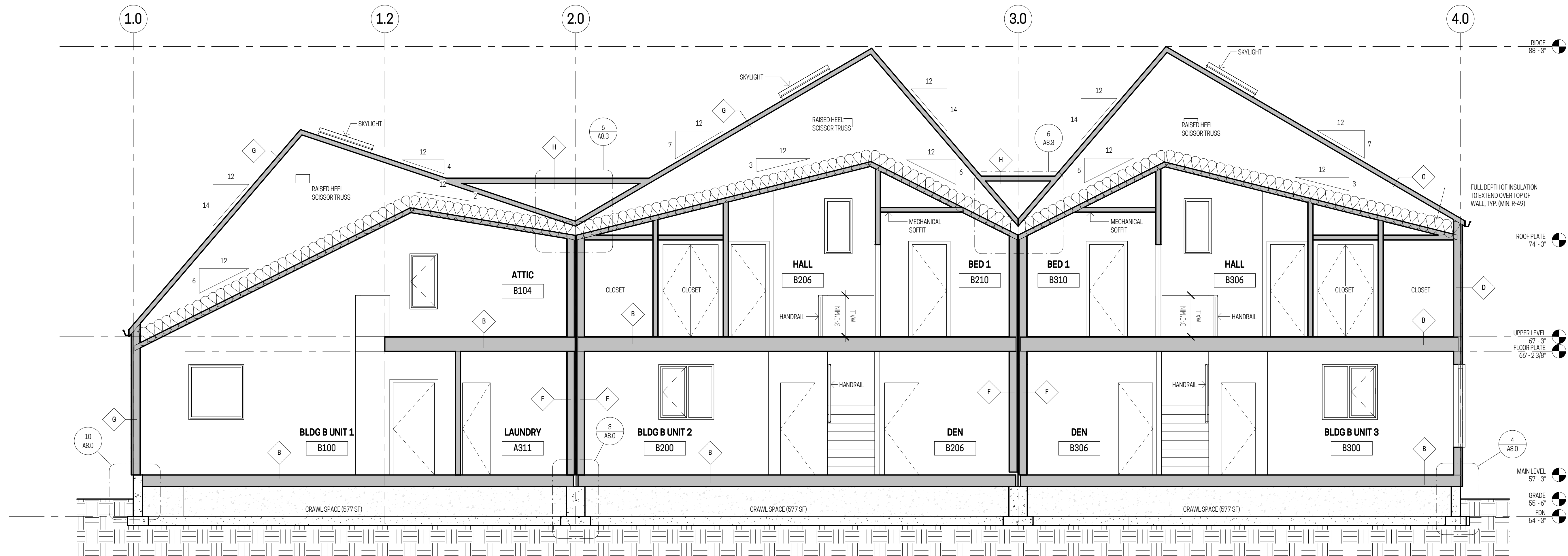
- E. TYPICAL INTERIOR WALL**
- 1/2" GYPSUM WALL BOARD
- 2X4 OR 2X6 STUDS @ 16" O.C.

- F. TYPICAL DOUBLE 1-HOUR PARTY WALL (STC 55) PER GA FILE NO. WP 3820**
- 2X4 STUDS @ 24" O.C. EACH SIDE PER STRUCTURAL PLANS
- 2X4 SILL AND (2) 2X4 TOP PLATE EACH SIDE
- (1) LAYER 5/8" TYPE X GWB EACH SIDE. (4) LAYERS TOTAL APPLIED VERTICALLY OR HORIZONTALLY

- G. TYPICAL ROOF CONSTRUCTION**
- ROOFING PER BUILDING ELEVATIONS
- ROOF UNDERLAYMENT
- PLYWOOD PER STRUCTURAL PLANS
- RAISED HEEL SCISSOR TRUSSES PER STRUCTURAL PLANS
- MIN. R-49 BLOWN-IN CELLULOSE INSULATION
- AIR BARRIER SHEATHING ATTACHED TO BOTTOM CHORD, ALL SEAMS TAPED
- 2X FLOORING (UTILITY RACEWAY)
- (1) LAYER 5/8" GWB TO BE TYPE X FOR 4 FT ON EITHER SIDE OF PARTY WALLS
- PRIMER & PAINT

- H. ROOF CRICKET CONSTRUCTION**
- ROOFING PER BUILDING ELEVATIONS
- ROOF UNDERLAYMENT
- PLYWOOD PER STRUCTURAL PLANS
- OVERFRAMING PER STRUCTURAL

FOR AGENCY REVIEW



11106 REGISTERED ARCHITECT
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BUILDING B - SECTION

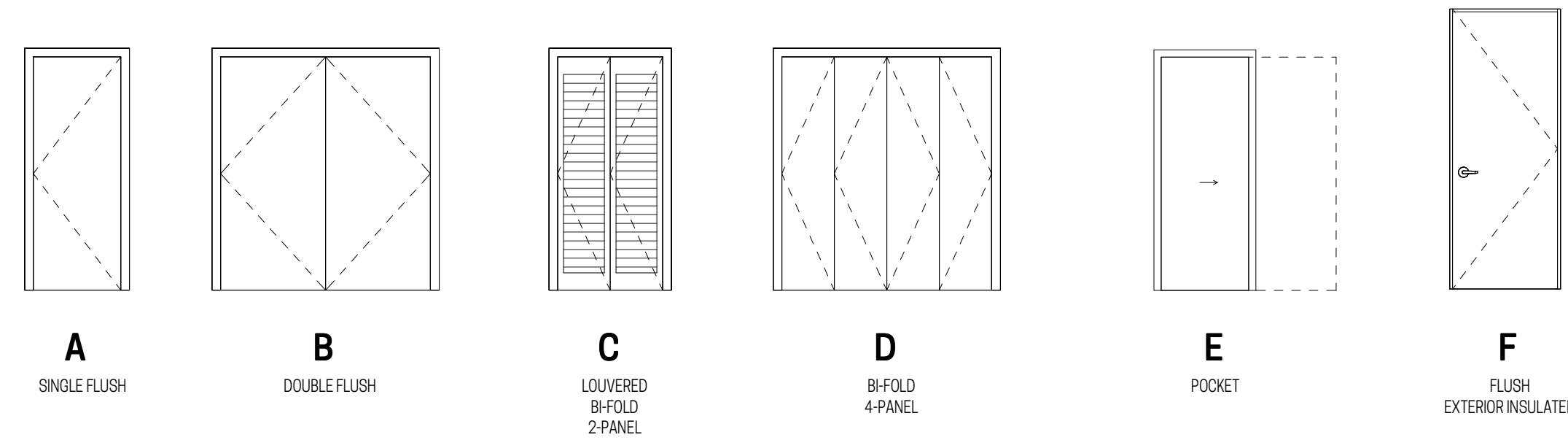
1 BUILDING B - SECTION
SCALE: 1/4" = 1'-0"

A4.1

EXTERIOR DOOR SCHEDULE - BUILDING B								
DOOR NUMBER	WIDTH	HEIGHT	TYPE	OPERATION	MATERIAL	FINISH	GLAZING AREA	COMMENTS
B100-0	3'-0"	8'-0"	F	SWING	FIBERGLASS	PT-2	0 SF	
B200-0	3'-0"	8'-0"	F	SWING	FIBERGLASS	PT-3	0 SF	
B204-0	3'-0"	6'-8"	F	SWING	FIBERGLASS	PT-3	0 SF	
B300-0	3'-0"	8'-0"	F	SWING	FIBERGLASS	PT-4	0 SF	
B304-0	3'-0"	6'-8"	F	SWING	FIBERGLASS	PT-4	0 SF	

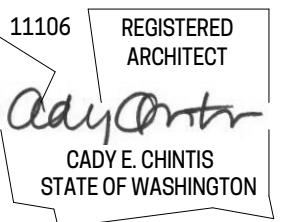
INTERIOR DOOR SCHEDULE - BUILDING B				
DOOR NUMBER	WIDTH	HEIGHT	TYPE	COMMENTS
B100-1	5'-0"	6'-8"	D	
B102	3'-0"	6'-8"	A	
B102-1	2'-0"	6'-8"	A	
B103	3'-0"	6'-8"	A	
B103-1	4'-0"	6'-8"	B	
B200-1	2'-6"	6'-8"	A	
B202	2'-6"	6'-8"	E	
B203	2'-6"	6'-8"	A	
B206	2'-6"	6'-8"	C	
B207	2'-6"	6'-8"	A	
B207-1	4'-0"	6'-8"	B	
B208	2'-6"	6'-8"	A	
B208-1	4'-0"	6'-8"	B	
B209	2'-6"	6'-8"	A	
B210	2'-6"	6'-8"	A	
B211	2'-6"	6'-8"	A	
B211-1	2'-0"	6'-8"	A	
B300-1	2'-6"	6'-8"	A	
B302	2'-6"	6'-8"	E	
B303	2'-6"	6'-8"	A	
B306	2'-6"	6'-8"	C	
B307	2'-6"	6'-8"	A	
B307-1	4'-0"	6'-8"	B	
B308	2'-6"	6'-8"	A	
B308-1	4'-0"	6'-8"	B	
B309	2'-6"	6'-8"	A	
B310	2'-6"	6'-8"	A	
B311	2'-6"	6'-8"	A	
B311-1	2'-0"	6'-8"	A	

BLDG B DOOR TYPES



DOOR NOTES

- ALL DOOR GLAZING TO BE TEMPERED LOW-E WARGON GAS.
- VERIFY ALL DIMENSIONS IN FIELD.
- PROVIDE ALL EXTERIOR DOORS WITHIN 10' OF GRADE WITH DEAD BOLTS OR OTHER APPROVED LOCKING DEVICES.
- ENTRY DOORS SHALL HAVE MIN. 1/2" THROW OR DEAD BOLT AND VIEWPORT. ALL LOCKS, INCLUDING DOOR LOCKS, MUST BE ABLE TO BE OPENED WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
- ALL EXT DOORS TO BE 1-3/4" THICK UNO
- ALL INT DOORS TO BE 1-3/8" THICK UNO
- POCKET DOORS TO HAVE JOHNSON HEAVY DUTY TRACK
- ALL GLAZING UNITS TO BEAR FACTORY LABELS AND CERTIFICATIONS PER WSEC R303.1.3



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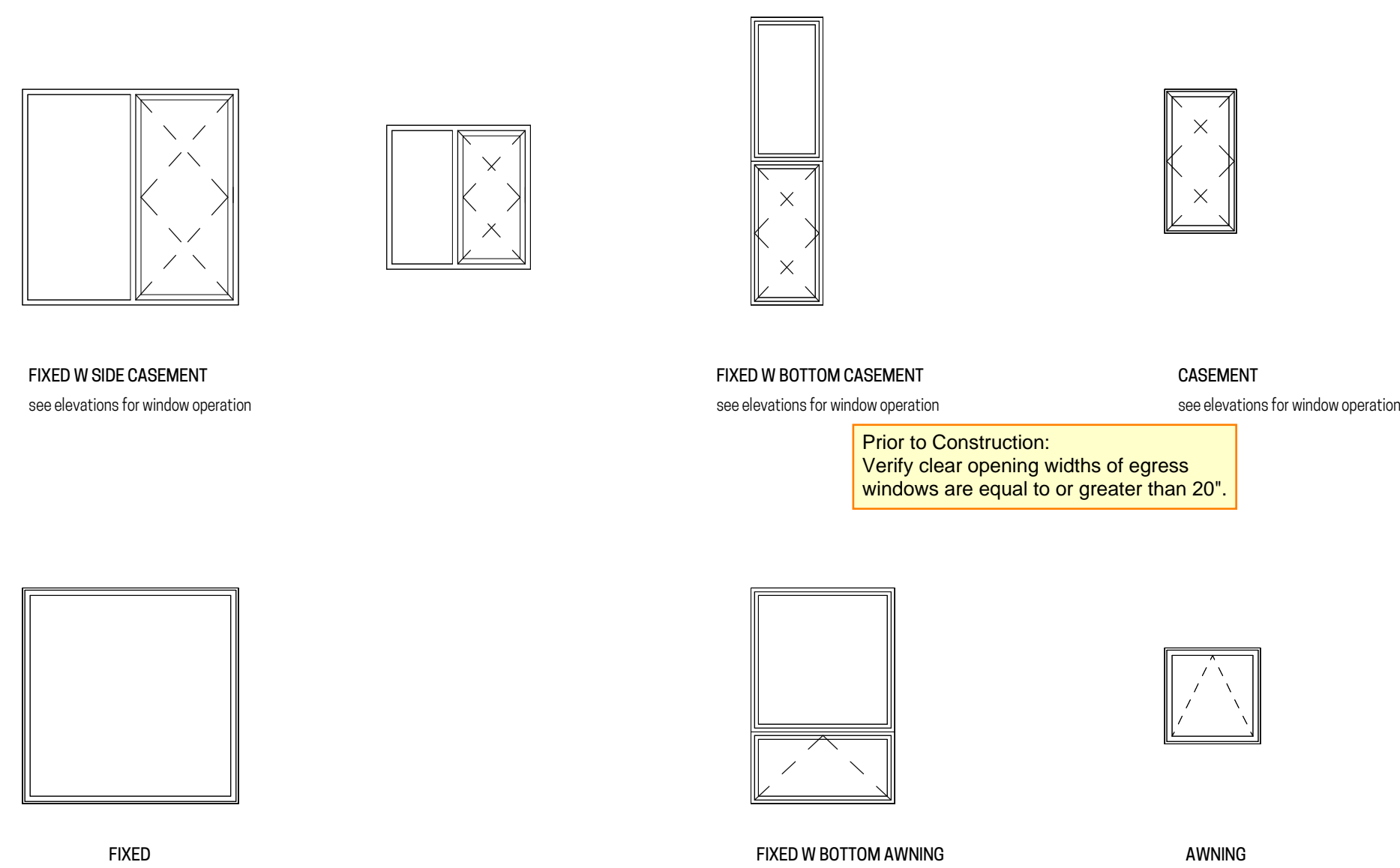
**BUILDING B - DOOR
SCHEDULE**

A7.2

WINDOW NOTES

- PROVIDE SAFETY GLAZING AT THE FOLLOWING LOCATIONS:
 - ALL DOORS
 - ALL BATH TUB AND SHOWER ENCLOSURES WHICH SHALL BE OUTSWING AND LABELLED CATEGORY II.
 - IN WINDOWS LOCATED IN STAIRWELLS
 - IN WINDOWS LOCATED IN SHOWER OR TUB AREAS
 - IN WINDOWS WITH GLAZING SURFACE WITHIN A 24" ARC OF A DOOR AND LESS THAN 60" ABOVE THE FLOOR.
 - IN WINDOWS LESS THAN 18" ABOVE THE FLOOR OR GROUND.
 - EACH LIGHT SHALL BE PERMANENTLY MARKED AS TEMPERED.
- CONTRACTOR TO VERIFY ALL ROUGH OPENINGS AFTER FRAMING IS COMPLETE AND PRIOR TO ORDERING WINDOWS.
- WINDOWS ARE REFERENCED ON EXTERIOR ELEVATIONS.
- WINDOWS MARKED EGRESS SHALL FULFILL THE FOLLOWING REQUIREMENTS:
 - 5.7 SF MIN. NET OPEN AREA
 - 20" MIN. CLEAR OPEN WIDTH
 - 24" MIN. CLEAR OPEN HEIGHT
 - 44" MAX. SILL HEIGHT
 - OPERATIONAL FROM THE INSIDE WITHOUT ANY SPECIAL KNOWLEDGE, KEYS, OR TOOLS
- ALL GLAZING TO BE 3/4" INSULATED LOW-E/ARGON FILLED WITH SIMULATED DIVIDED LIGHTS WHERE SHOWN, UNO.
-
- PROVIDE OBSCURE GLASS AT ALL BATHROOM LOCATIONS.
- ALL GLAZING OPENINGS PROVIDED SHALL BE NFRC CERTIFIED. REFER TO NFRC CPD# LISTED IN THE WINDOW SCHEDULE.
- AIR LEAKAGE FOR SWINGING ENTRANCE DOORS SHALL NOT EXCEED 1.0 CFM PER SQUARE FOOT.
 AIR LEAKAGE FOR STOREFRONT FENESTRATION SHALL NOT EXCEED 0.04 CFM PER SQUARE FOOT.
 AIR LEAKAGE FOR ALL OTHER PRODUCTS INCLUDING VINYL WINDOWS SHALL NOT EXCEED 0.2 CFM PER SQUARE FOOT.

WINDOW TYPES



WINDOW SCHEDULE - BLDG B UNIT 1

Mark	ROUGH OPENING		OPERATION	GLAZING AREA	U-VALUE	EGRESS	HEAD HEIGHT	COMMENTS
	WIDTH	HEIGHT						
B10	6'-0"	6'-0"	Fixed	36 SF	0.28		8'-0"	
B11	6'-0"	6'-0"	Fixed w Side Casement	36 SF	0.28	Yes	8'-0"	
B12	4'-0"	4'-0"	Fixed	16 SF	0.28		8'-0"	
B13	4'-0"	6'-0"	Fixed with Bottom Awning	24 SF			8'-0"	
B14	2'-0"	8'-0"	Fixed w Bottom Casement	16 SF	0.28	No	10'-0"	
B15	2'-8"	2'-8"	Fixed	7 SF	0.28		7'-8"	
B16	2'-8"	2'-8"	Fixed	7 SF	0.28		5'-8"	
B17	2'-0"	4'-0"	Casement	8 SF			6'-0"	
B18	6'-0"	4'-0"	Fixed w Side Casement	24 SF	0.28	Yes	7'-0"	
B19	1'-9"	4'-0"	Skylight	7 SF				U-VALUE 0.50
Grand total: 10				181 SF				

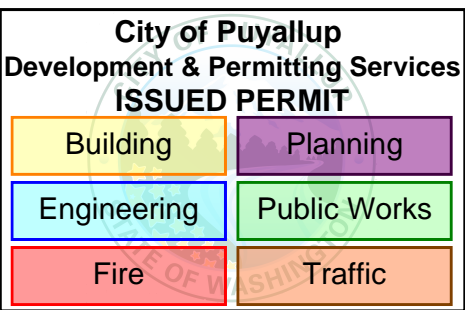
WINDOW SCHEDULE - BLDG B UNIT 2

Mark	ROUGH OPENING		OPERATION	GLAZING AREA	U-VALUE	EGRESS	HEAD HEIGHT	COMMENTS
	WIDTH	HEIGHT						
B20	6'-0"	6'-0"	Fixed	36 SF	0.28		8'-0"	
B21	8'-0"	6'-0"	Fixed w Side Casement	48 SF	0.28	No	8'-0"	
B23	4'-0"	4'-0"	Fixed w Side Casement	16 SF	0.28	No	8'-0"	
B24	4'-0"	4'-0"	Fixed w Side Casement	16 SF	0.28	Yes	7'-0"	
B25	2'-0"	8'-0"	Fixed w Bottom Casement	16 SF	0.28	Yes	10'-0"	
B27	2'-0"	4'-0"	Fixed	8 SF	0.28		10'-0"	
B28	6'-0"	6'-0"	Fixed w Side Casement	36 SF	0.28	Yes	8'-0"	
B29	1'-9"	4'-0"	Skylight	7 SF				U-VALUE 0.50
Grand total: 8				183 SF				

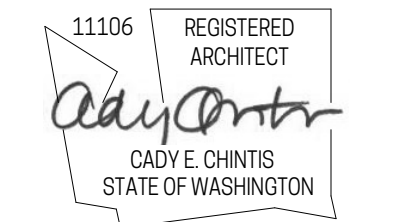
WINDOW SCHEDULE - BLDG B UNIT 3

Mark	ROUGH OPENING		OPERATION	GLAZING AREA	U-VALUE	EGRESS	HEAD HEIGHT	COMMENTS
	WIDTH	HEIGHT						
B30	6'-0"	6'-0"	Fixed	36 SF	0.28		8'-0"	
B31	8'-0"	6'-0"	Fixed w Side Casement	48 SF	0.28	No	8'-0"	
B32	6'-0"	6'-0"	Fixed w Side Casement	36 SF	0.28	No	8'-0"	
B33	4'-0"	4'-0"	Fixed w Side Casement	16 SF	0.28	No	8'-0"	
B34	4'-0"	4'-0"	Fixed w Side Casement	16 SF	0.28	Yes	7'-0"	
B35	2'-0"	8'-0"	Fixed w Bottom Casement	16 SF	0.28	Yes	10'-0"	
B36	4'-0"	4'-0"	Fixed w Side Casement	16 SF	0.28	No	6'-0"	
B37	2'-0"	4'-0"	Fixed	8 SF	0.28		10'-0"	
B38	6'-0"	6'-0"	Fixed w Side Casement	36 SF	0.28	Yes	8'-0"	
B39	1'-9"	4'-0"	Skylight	7 SF				U-VALUE 0.50
Grand total: 10				235 SF				

PRRNTH20250333



FOR AGENCY REVIEW



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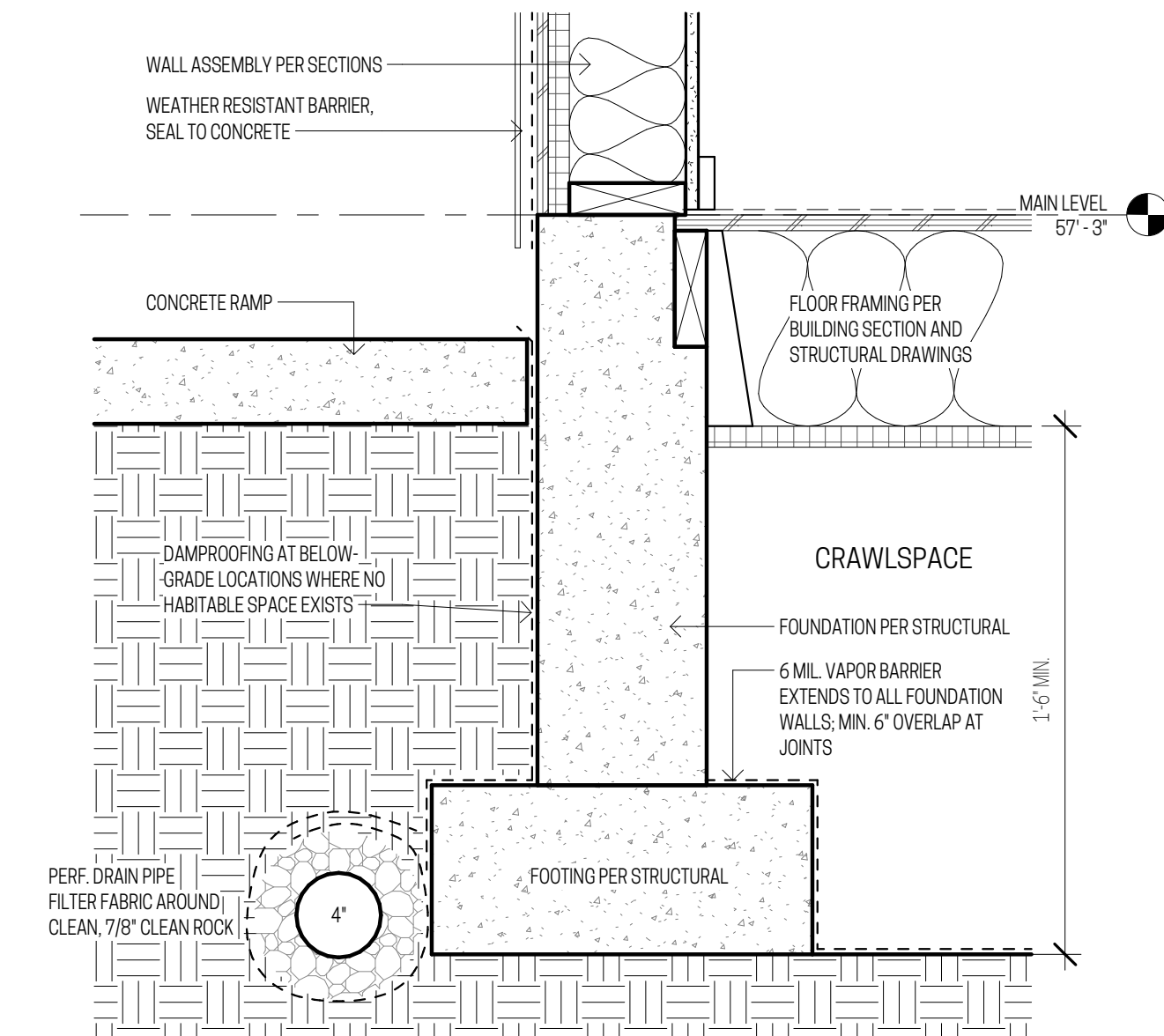
7TH AVE TOWNHOMES BUILDING B

1200 7TH AVE SE
PUYALLUP, WA 98371

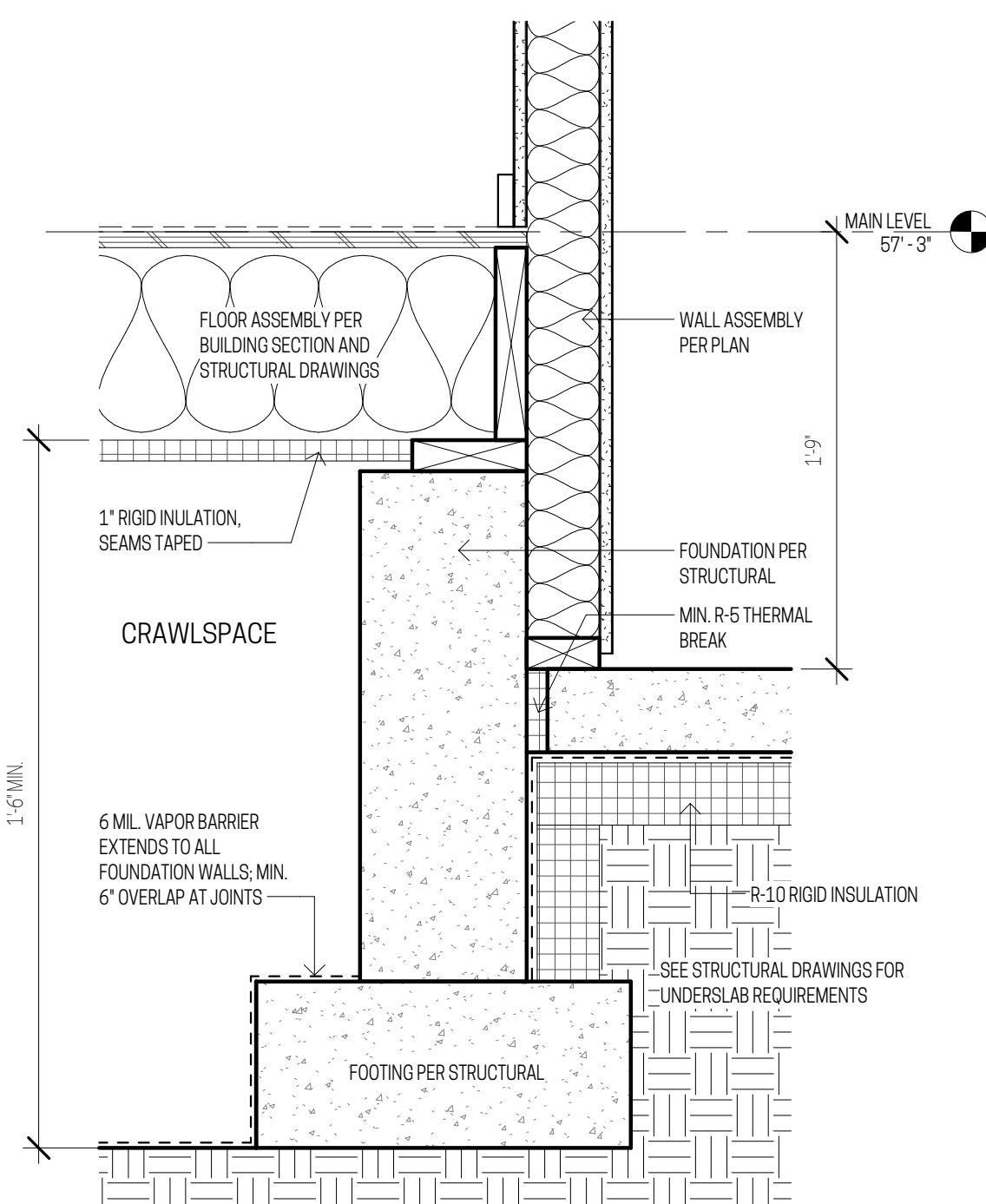
ISSUE	DATE
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PERMIT COMMENTS	04/29/2025

BUILDING B - WINDOW SCHEDULE

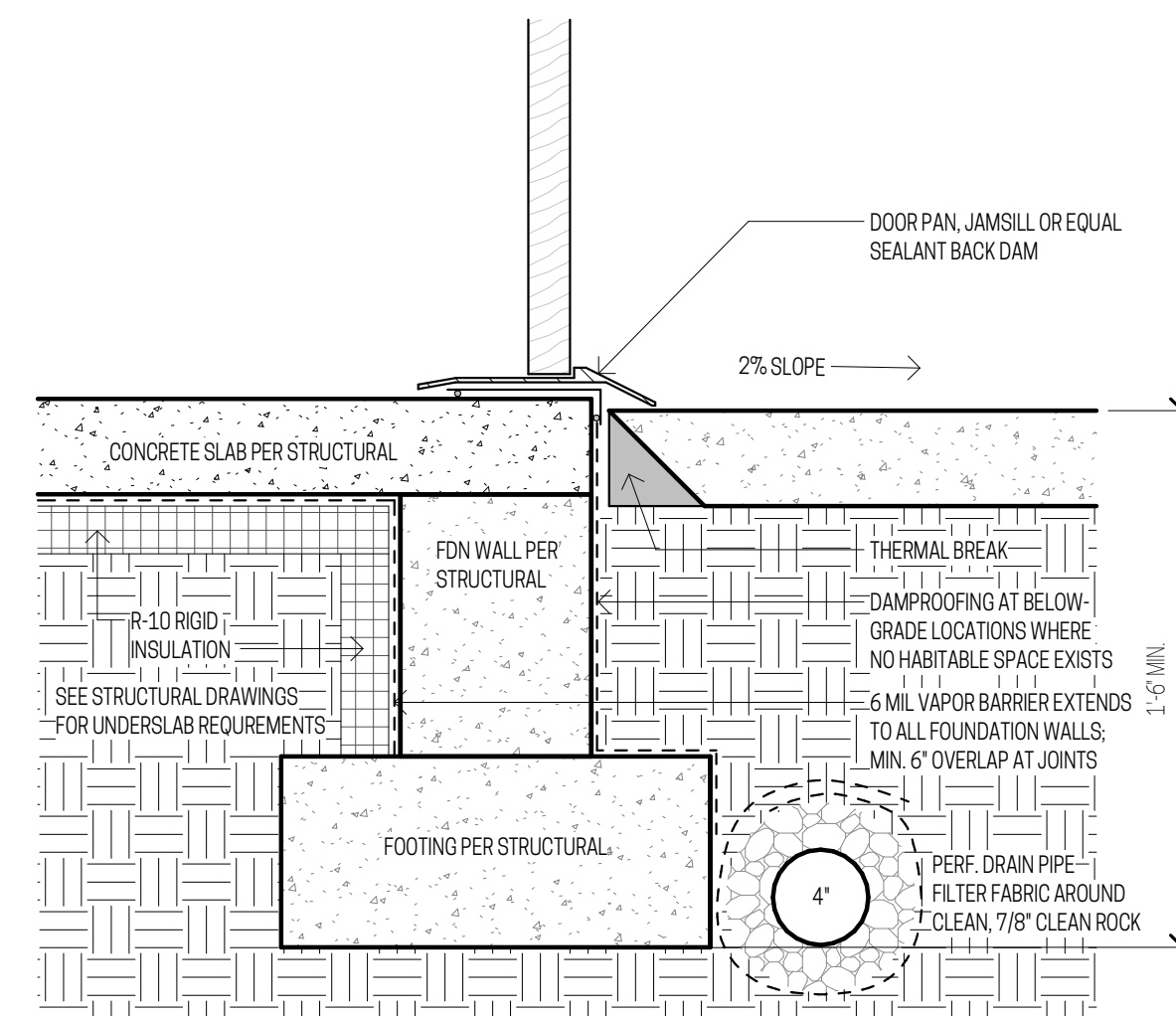
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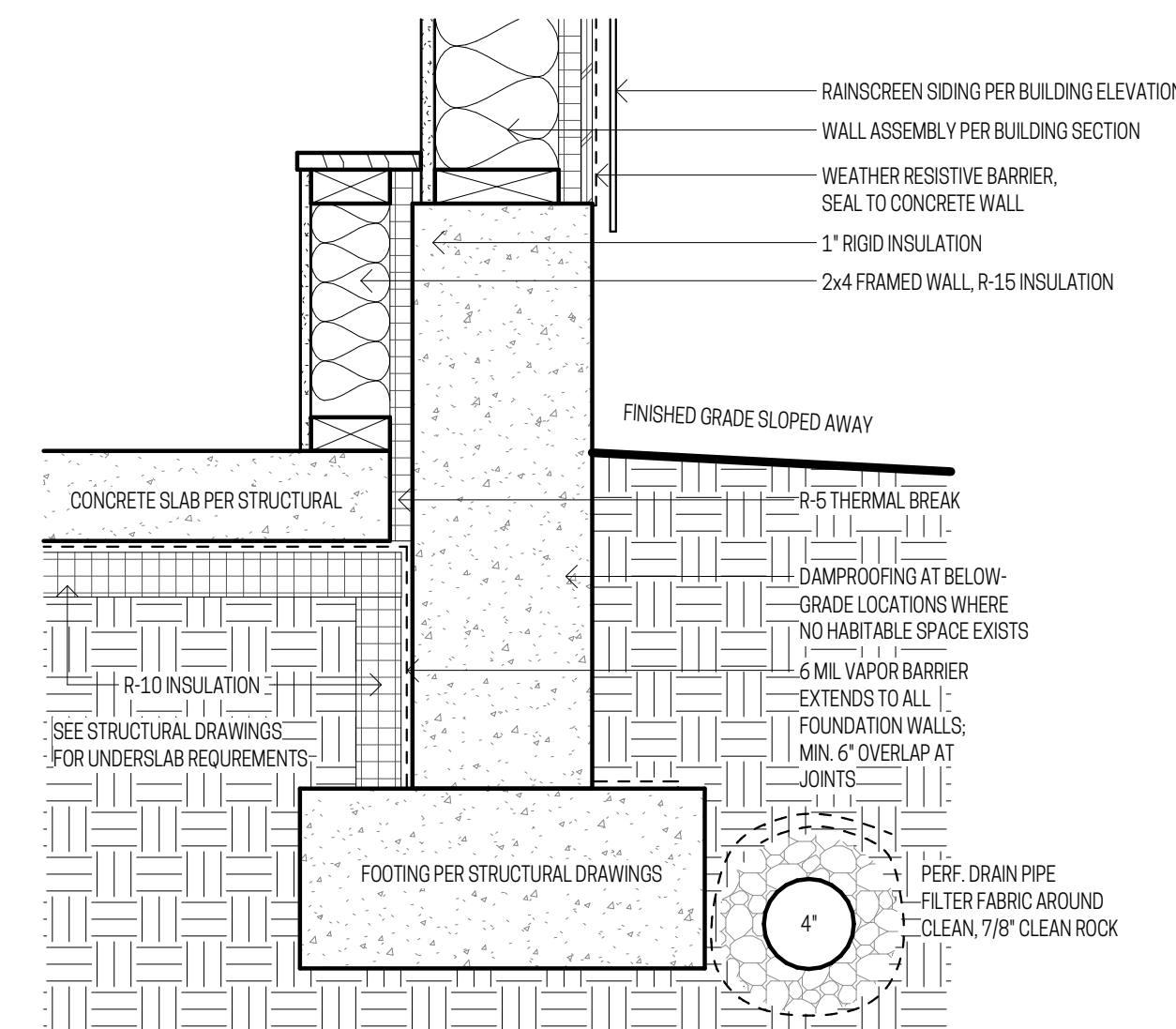
10 FOUNDATION @ ACCESSIBLE RAMP
SCALE: 1 1/2" = 1'-0"



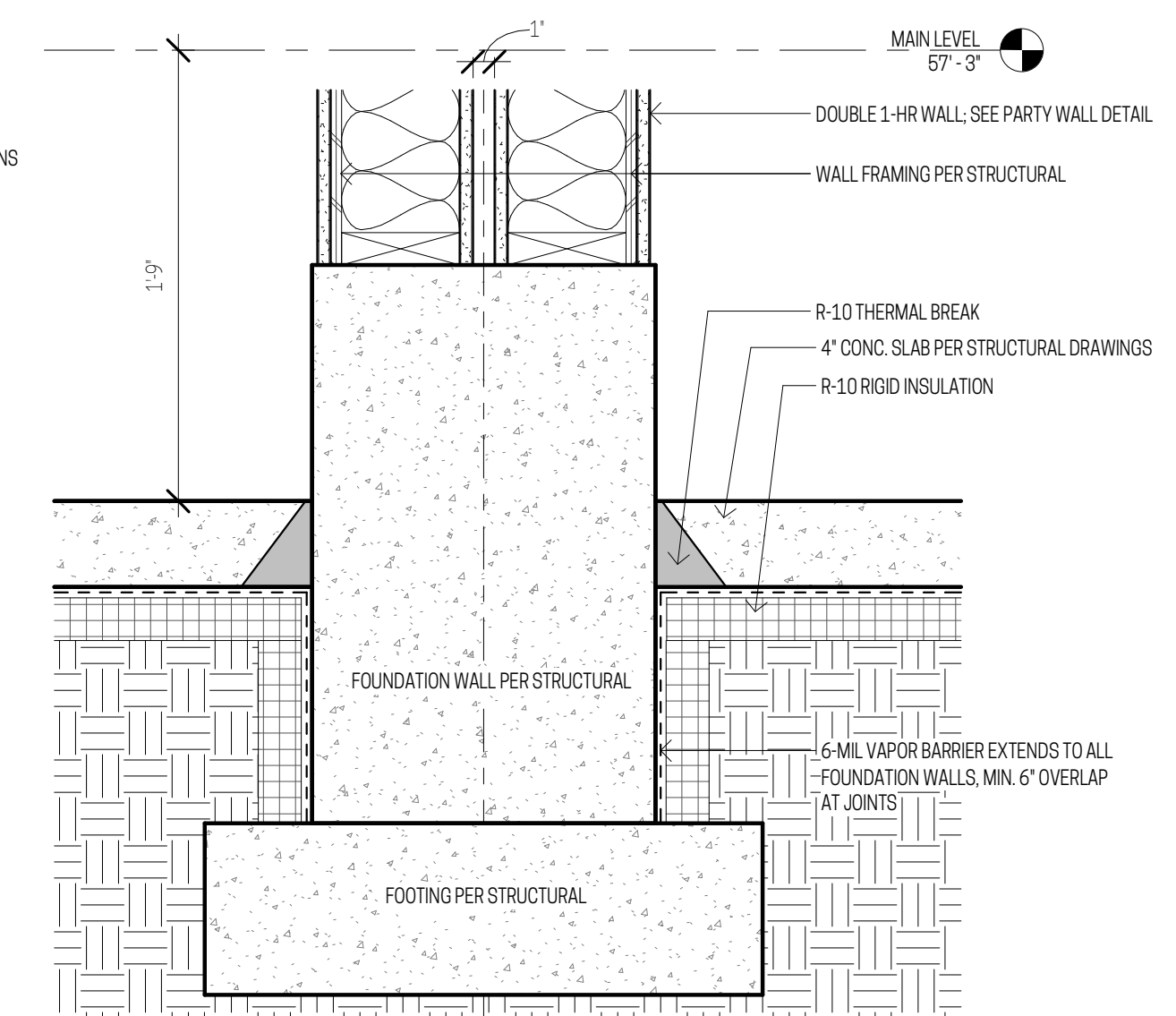
9 FOUNDATION @ UNIT/UTILITY ROOM
SCALE: 1 1/2" = 1'-0"



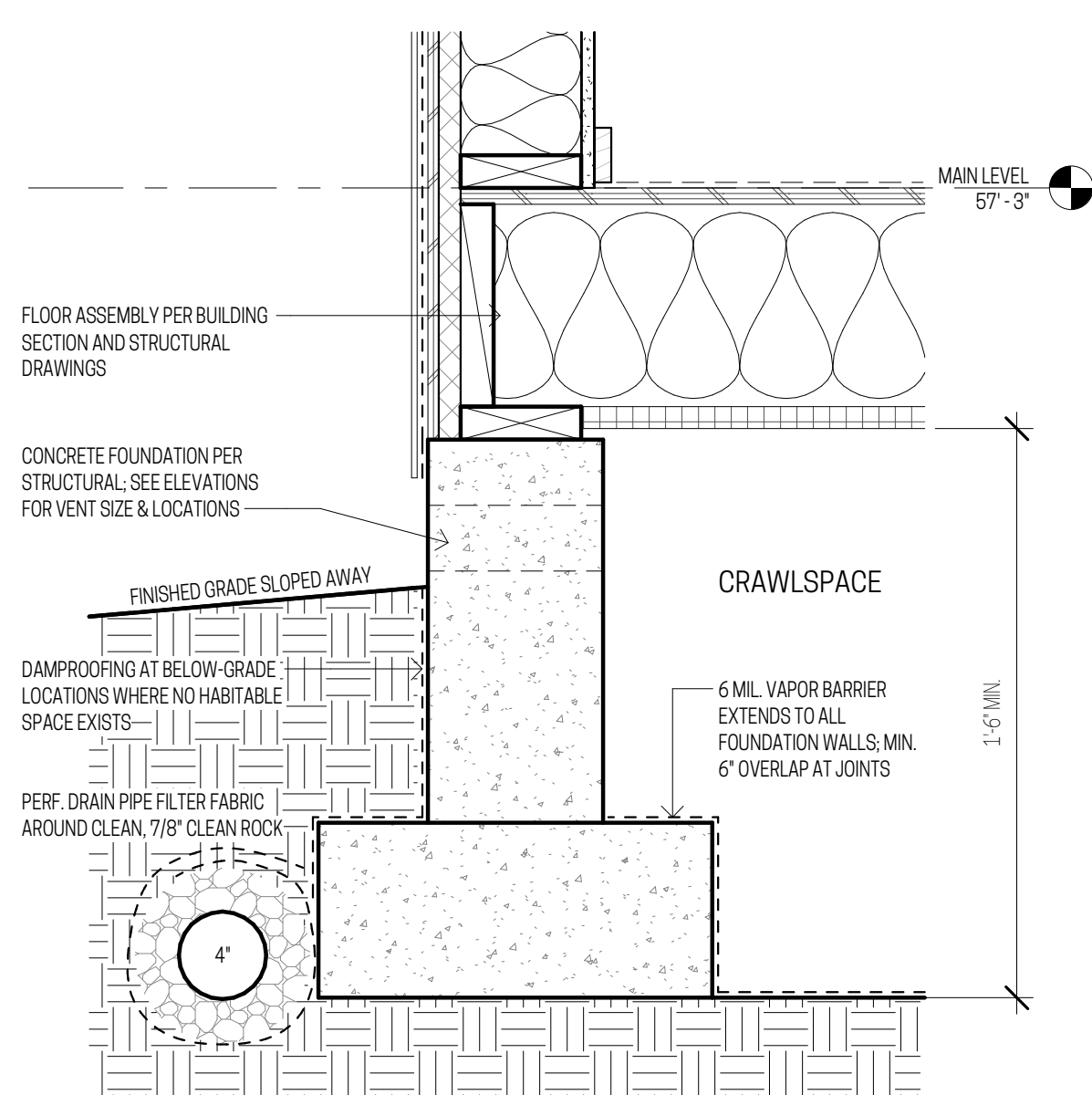
8 FOUNDATION @ UTILITY ROOM DOOR
SCALE: 1 1/2" = 1'-0"



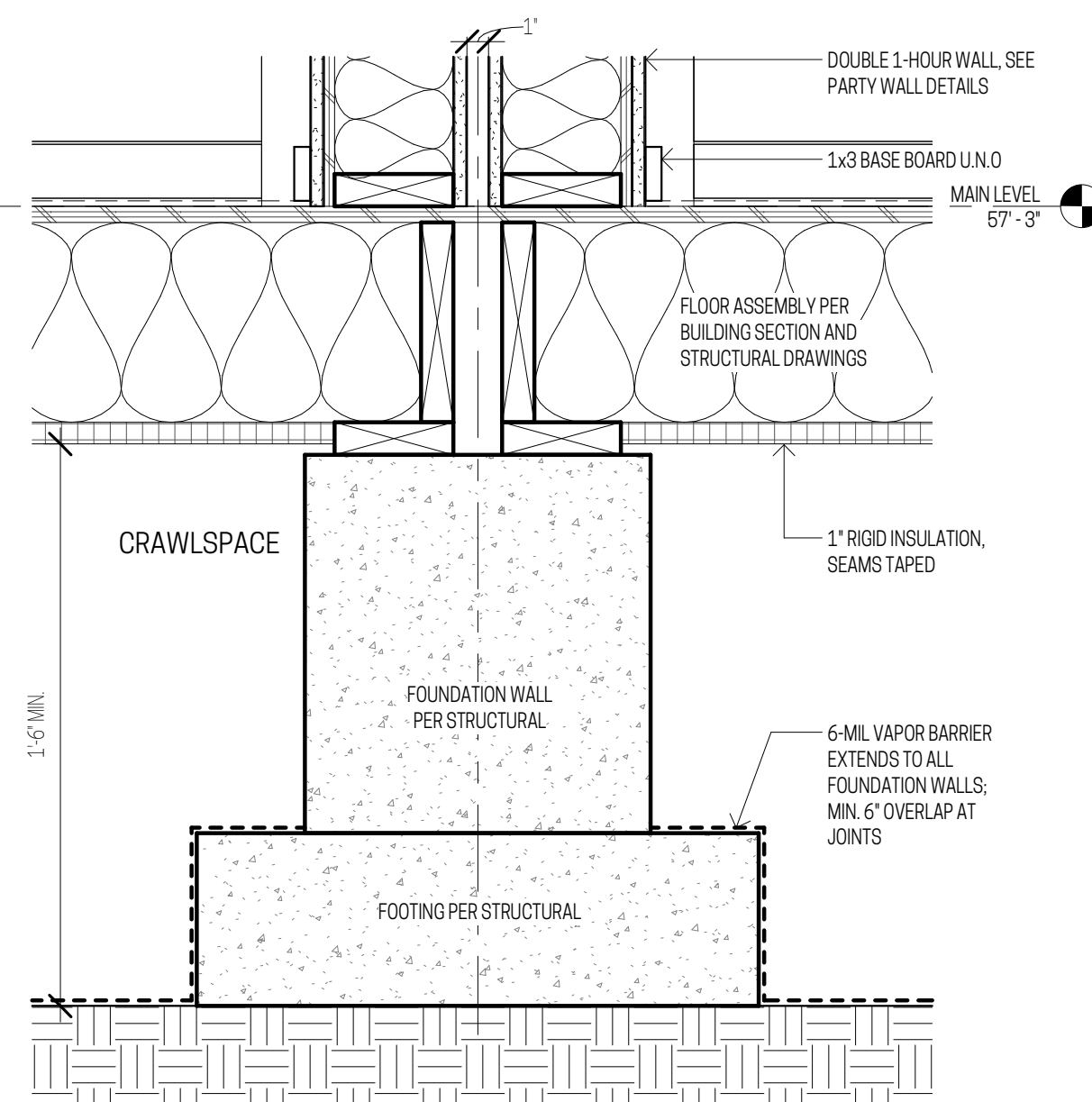
6 FOUNDATION @ UTILITY ROOM
SCALE: 1 1/2" = 1'-0"



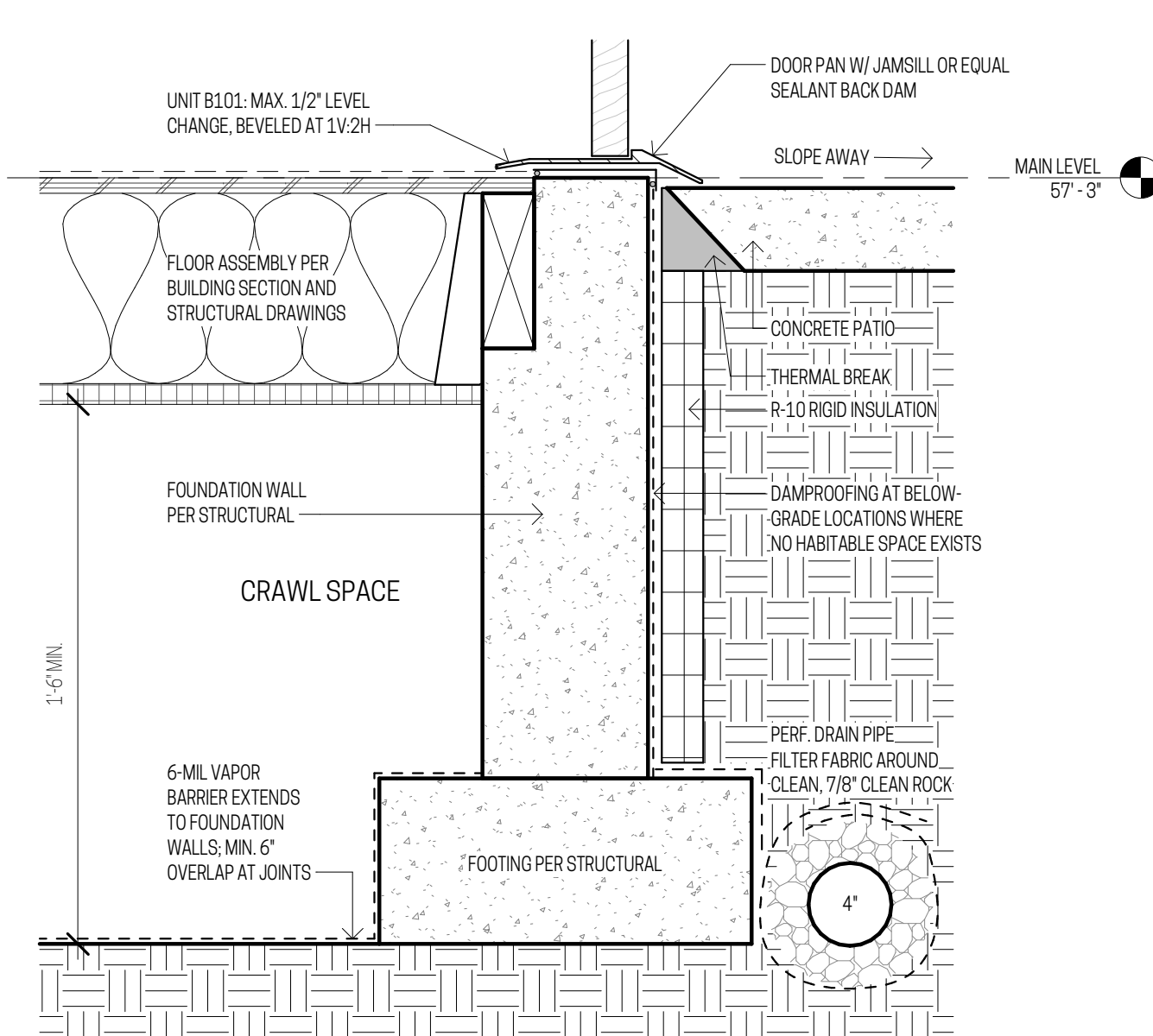
5 PARTY WALL @ UTILITY ROOMS
SCALE: 1 1/2" = 1'-0"



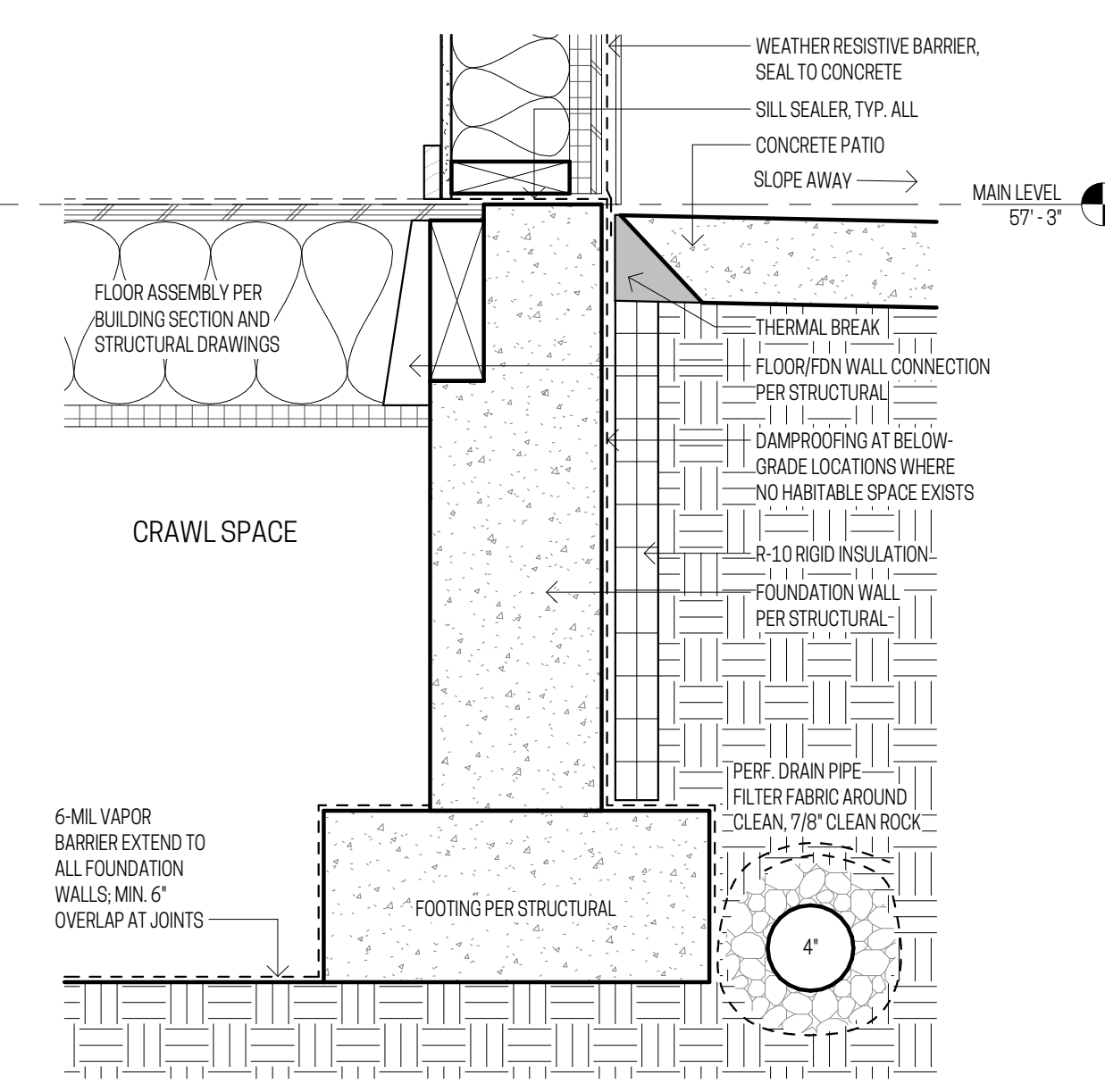
4 TYPICAL FOUNDATION @ CRAWL SPACE
SCALE: 1 1/2" = 1'-0"



3 PARTY WALL @ TYPICAL GROUND FLOOR
SCALE: 1 1/2" = 1'-0"



2 FOUNDATION @ ENTRY DOOR
SCALE: 1 1/2" = 1'-0"



1 FOUNDATION @ PORCH
SCALE: 1 1/2" = 1'-0"

11106 REGISTERED
ARCHITECT
Ady Chintis
Cady E. Chintis
STATE OF WASHINGTON

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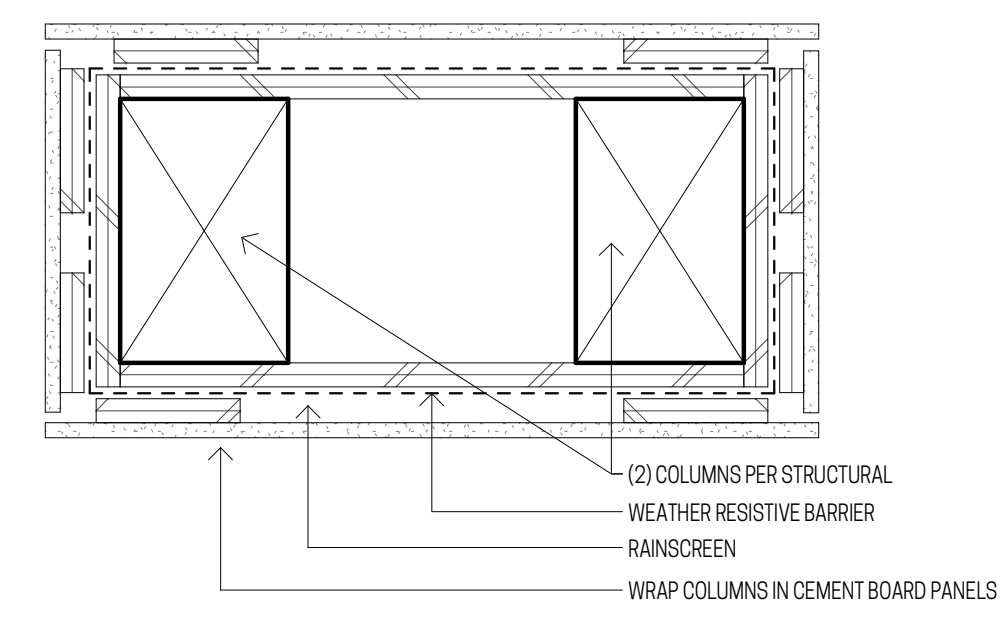
**7TH AVE TOWNHOMES
BUILDING B**

1200 7TH AVE SE
PUYALLUP, WA 98371

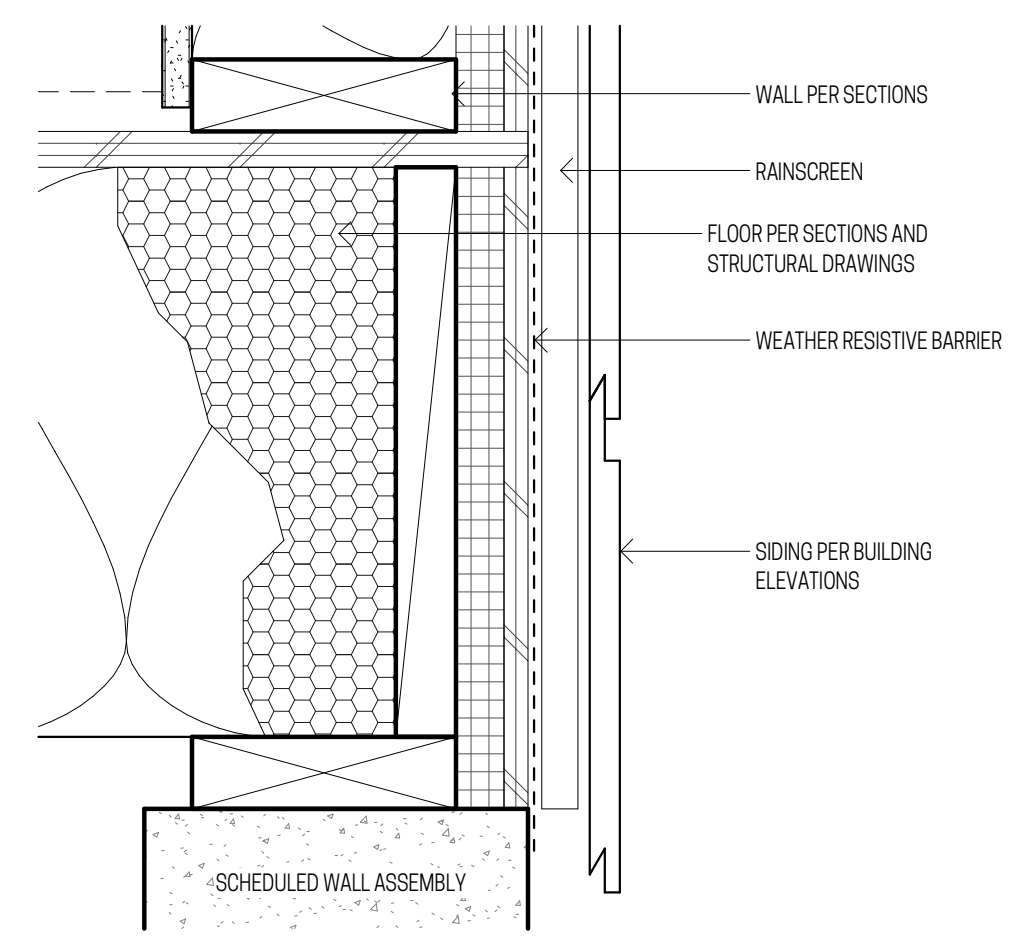
ISSUE	DATE
BLDG PERMIT APPLICATION	03/06/2025
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DETAILS FOUNDATION

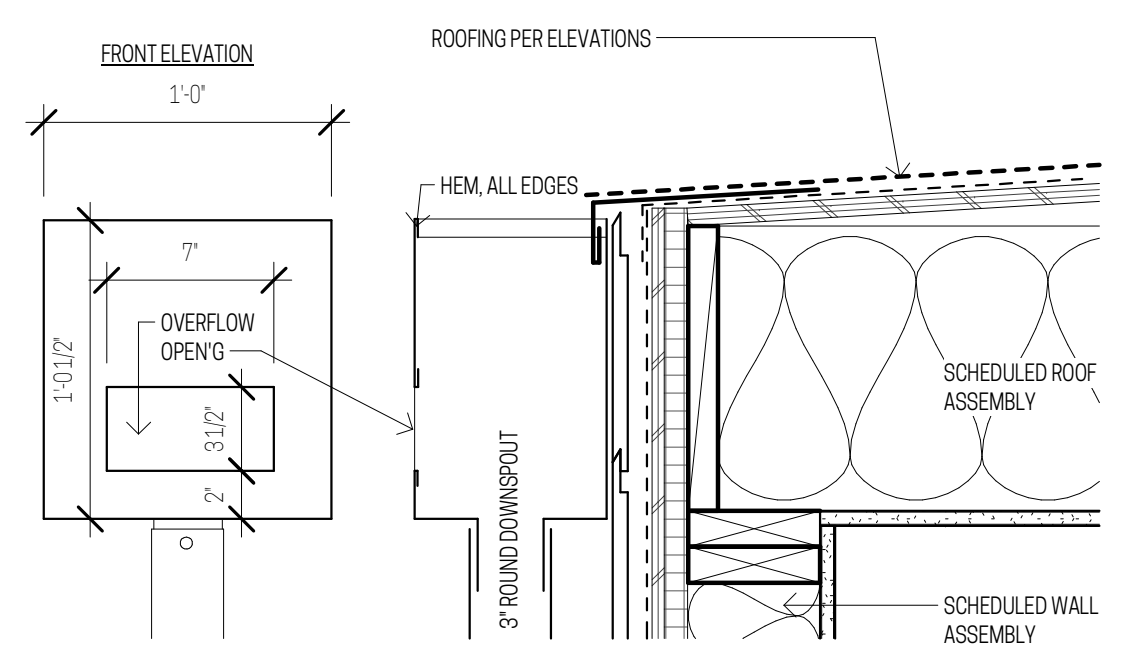
A8.0



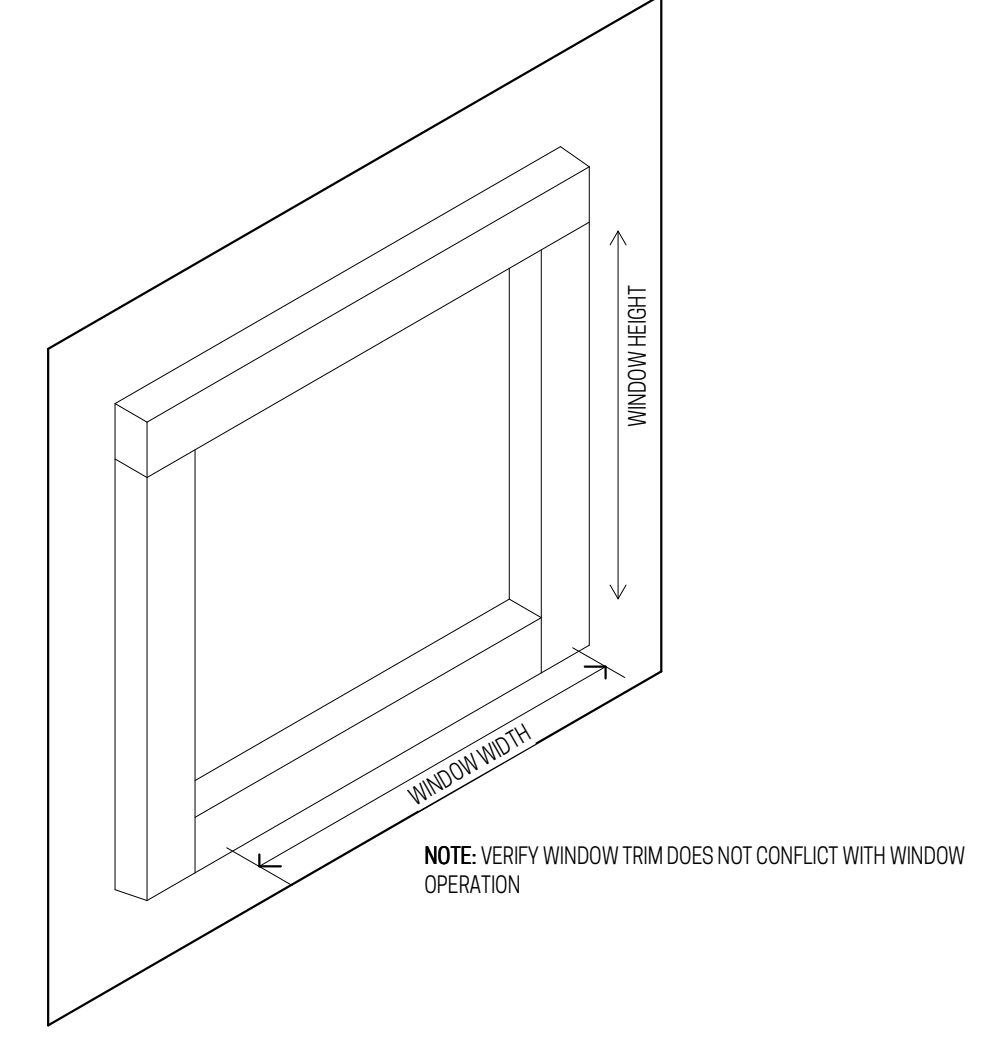
13 SIDING AT COLUMNS
SCALE: 3"=1'-0"



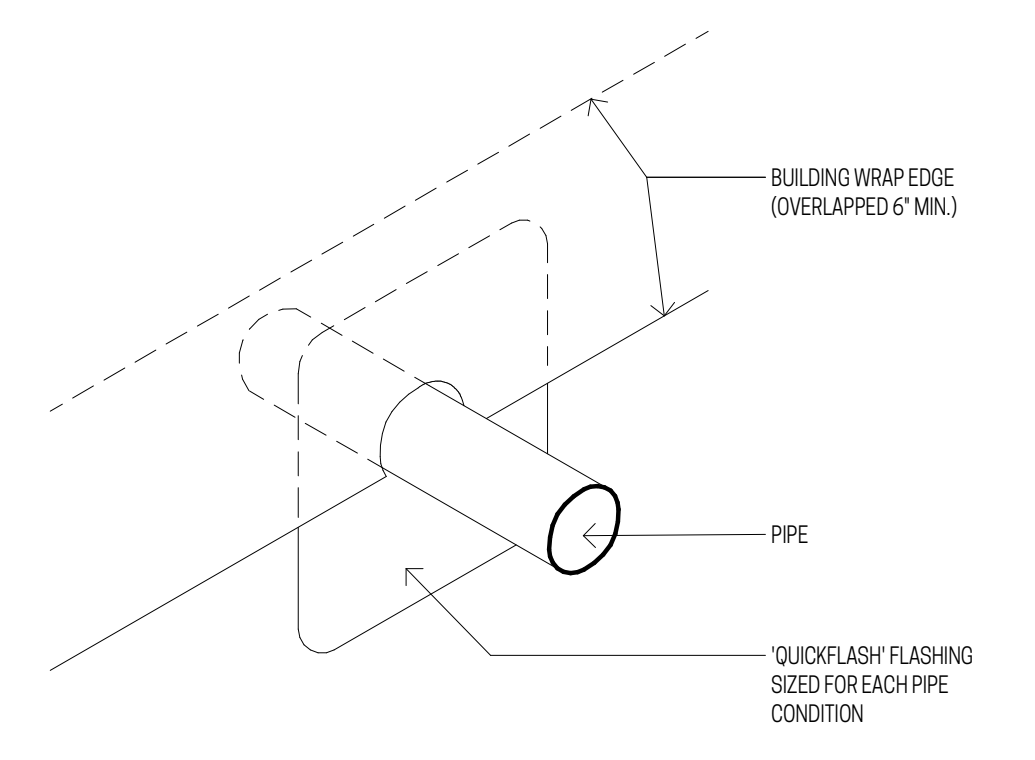
12 BASE DETAIL @ CHANNEL SIDING
SCALE: 3"=1'-0"



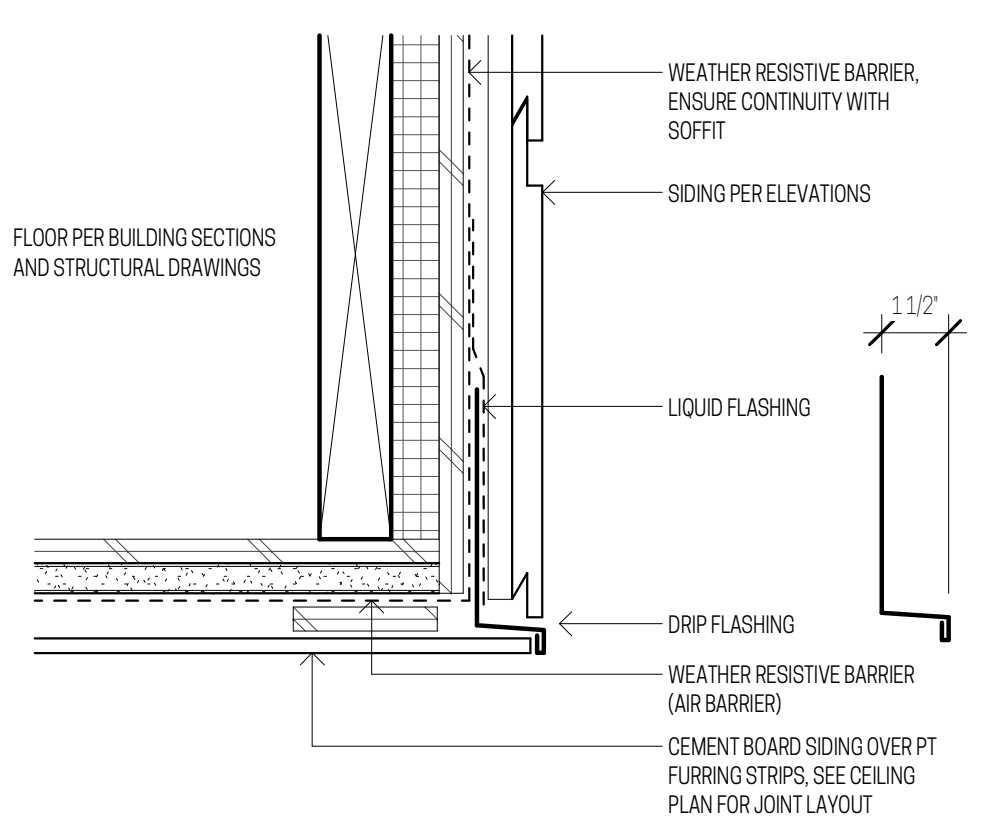
11 LEADER BOX
SCALE: 1 1/2"=1'-0"



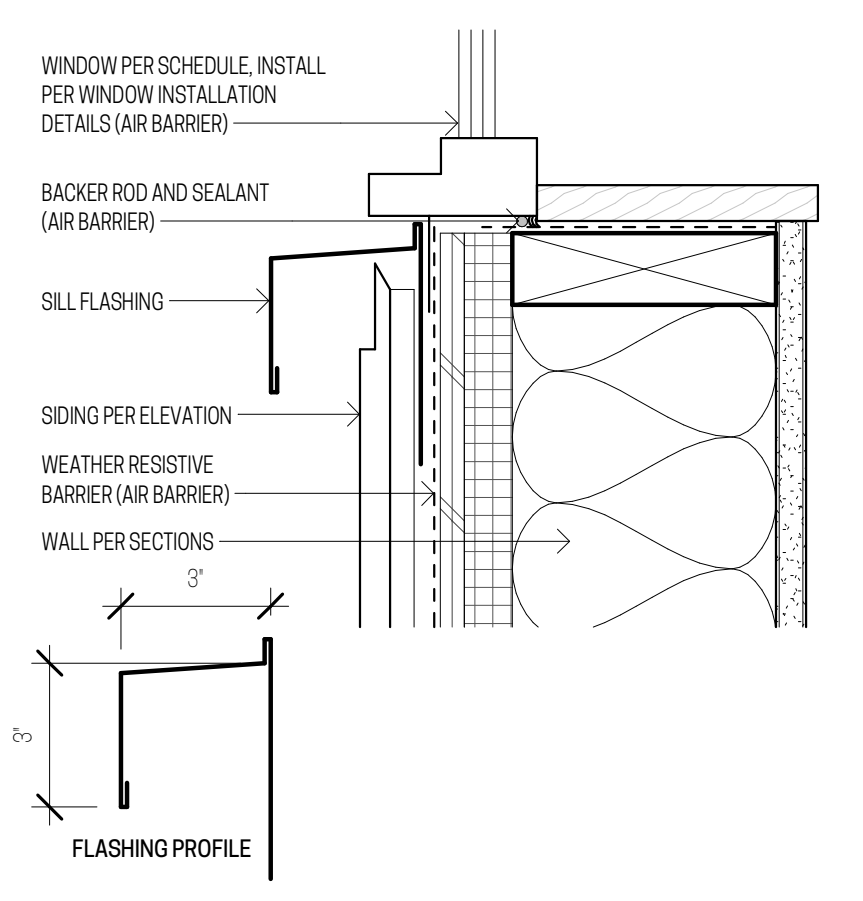
10 WINDOW SHROUD 3D
SCALE: 1"=1'-0"



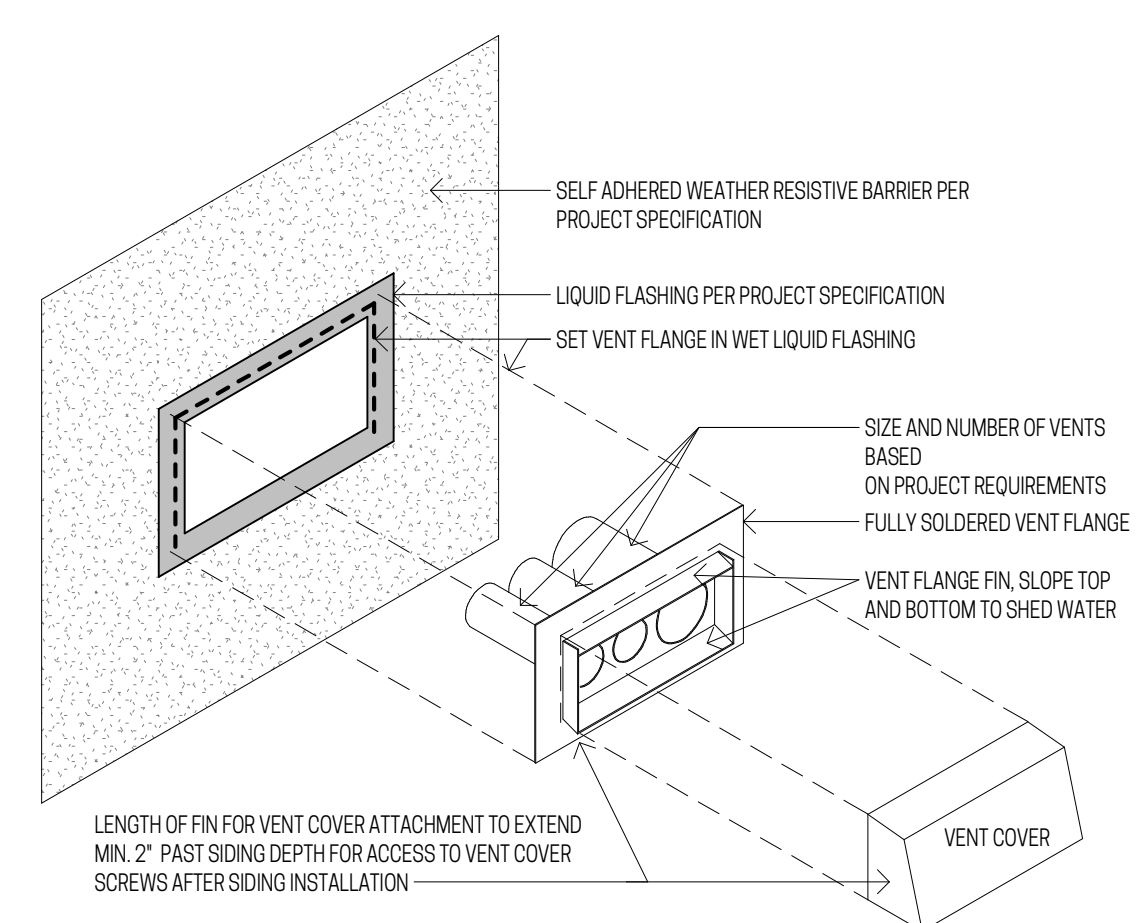
9 PIPE PENETRATION
SCALE: 3"=1'-0"



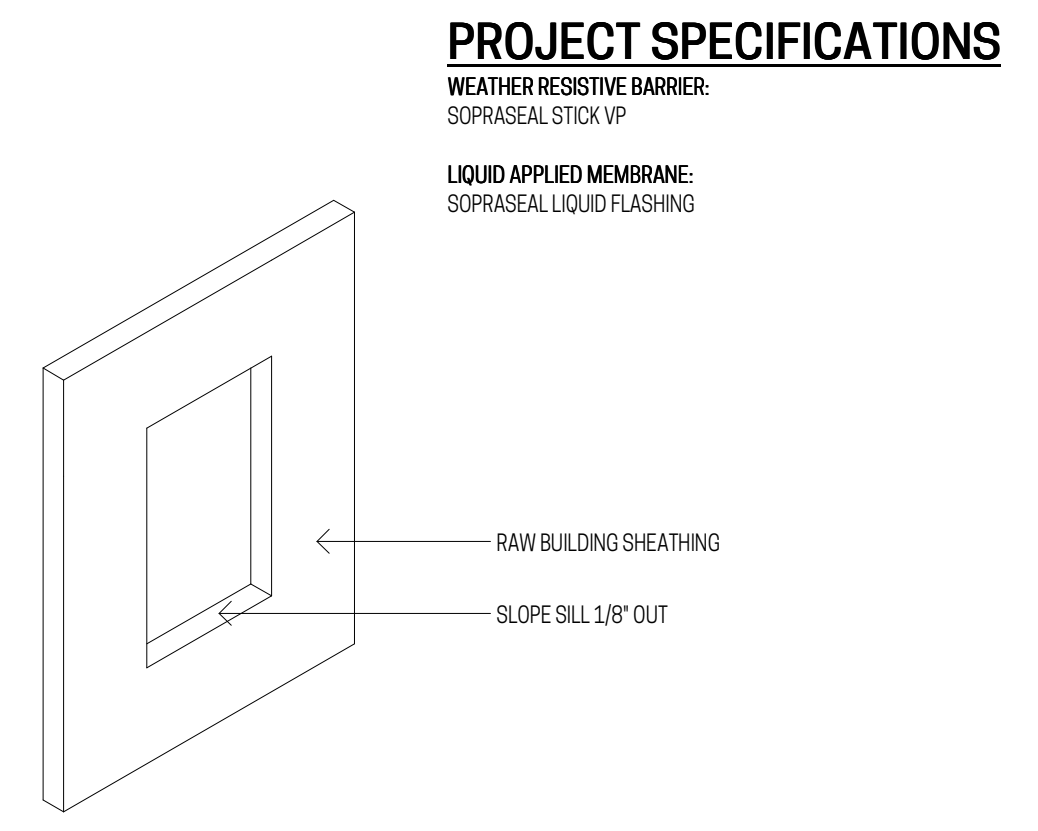
8 SOFFIT FLASHING
SCALE: 3"=1'-0"



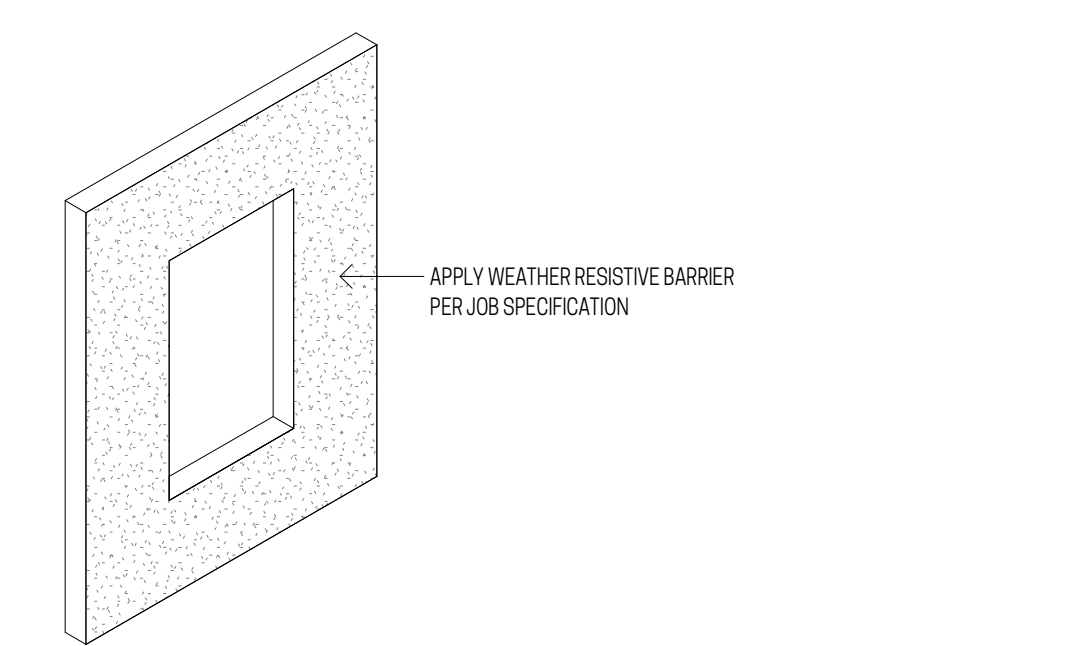
7 WINDOW SILL
SCALE: 3"=1'-0"



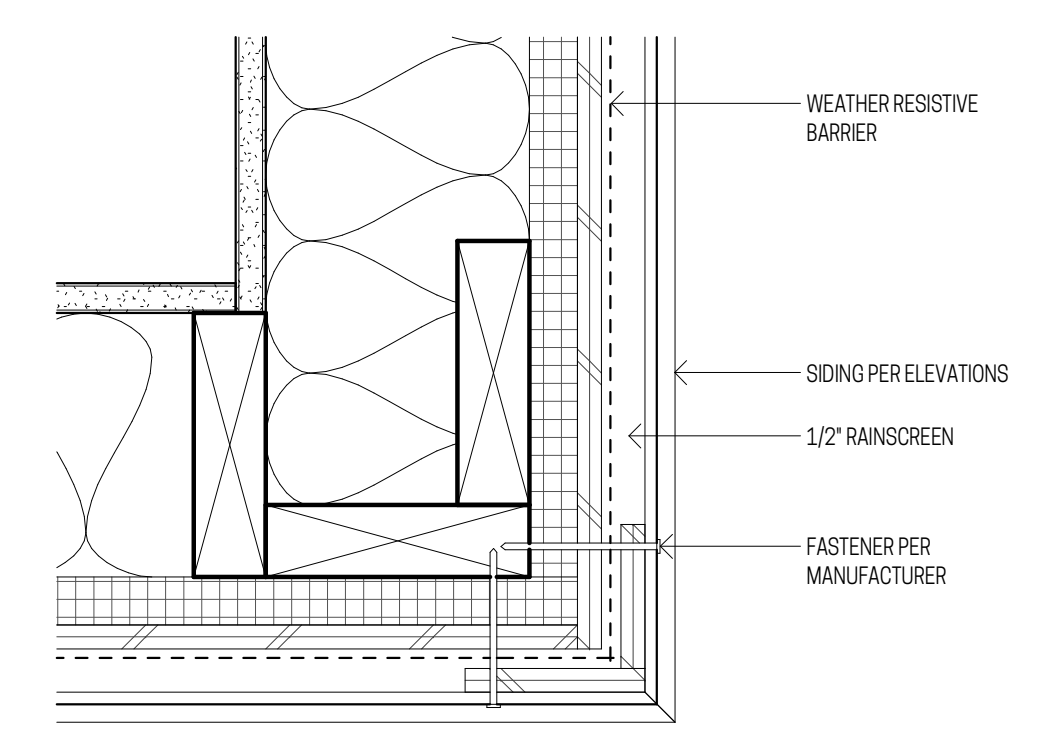
STEP 1: APPLY LIQUID FLASHING



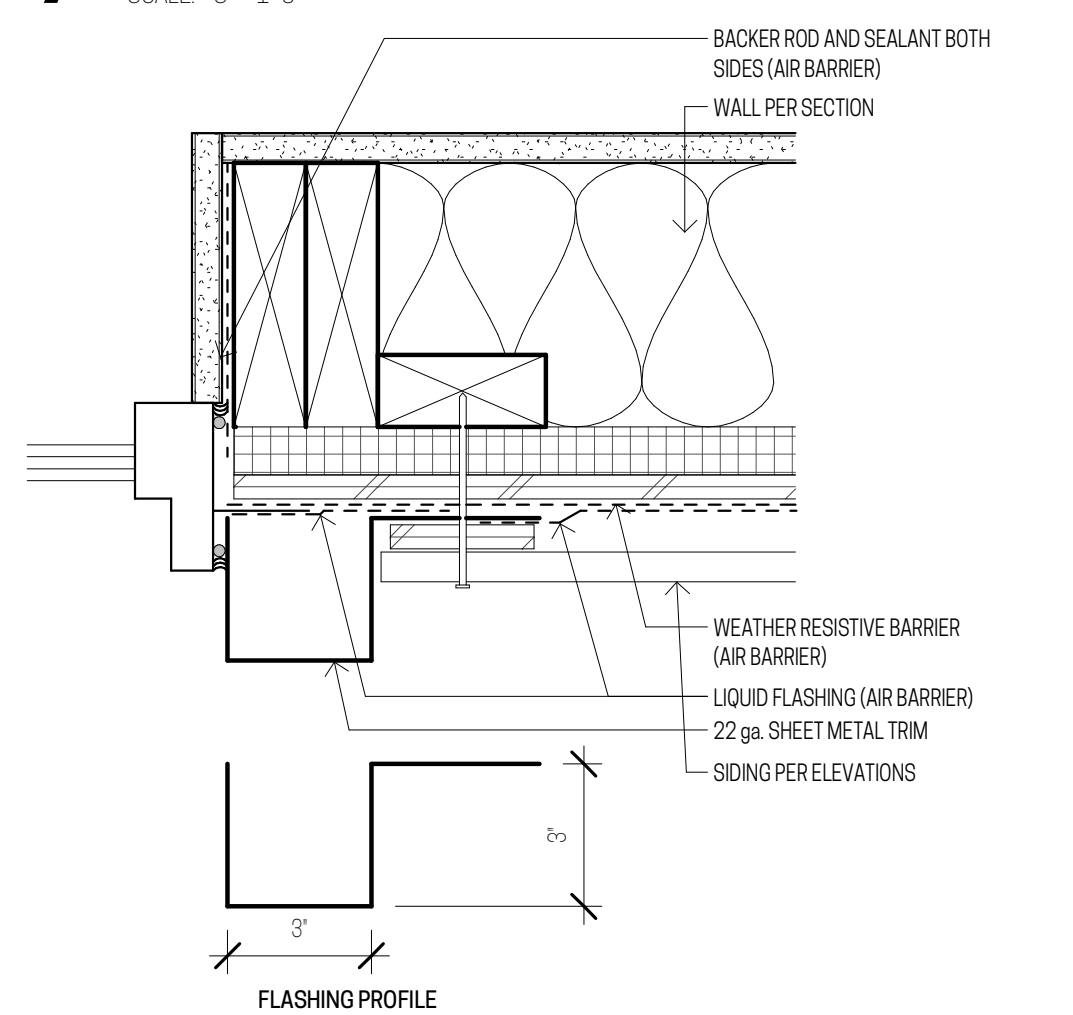
STEP 1: PREPARE OPENING



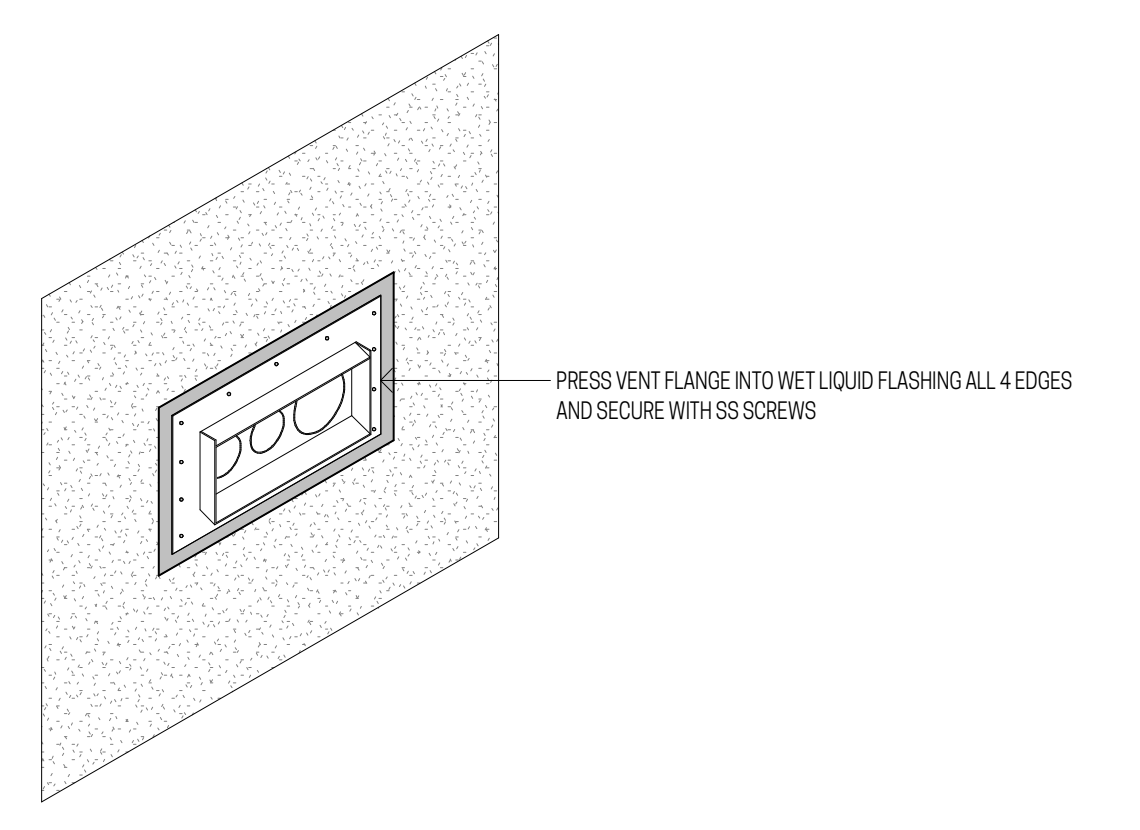
STEP 2: INSTALL BUILDING PAPER



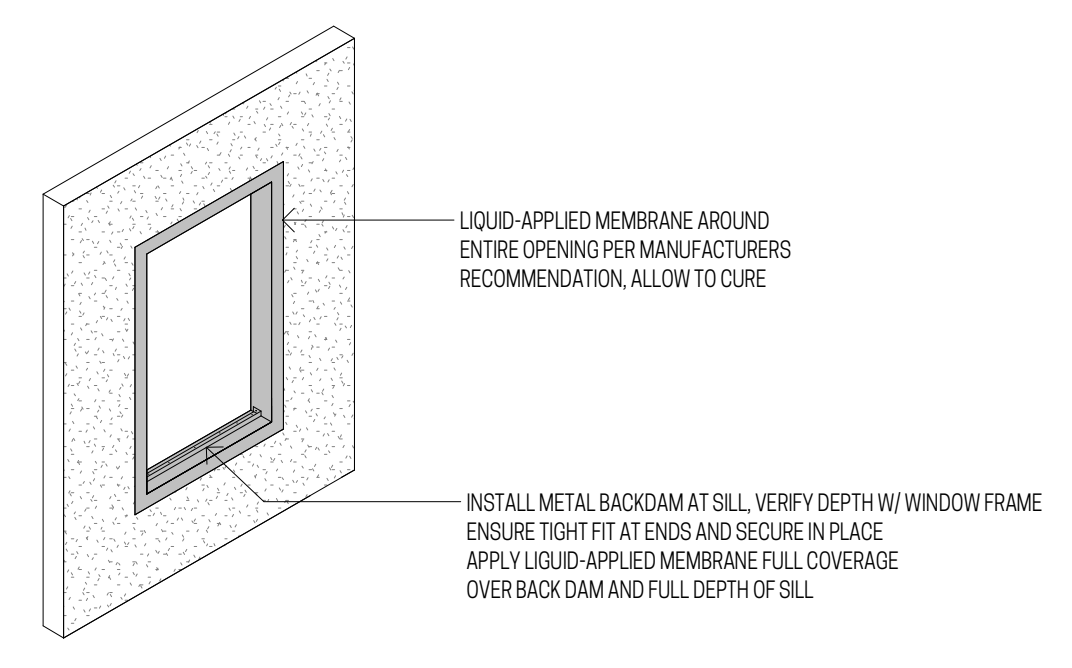
6 CHANNEL SIDING CORNER
SCALE: 3"=1'-0"



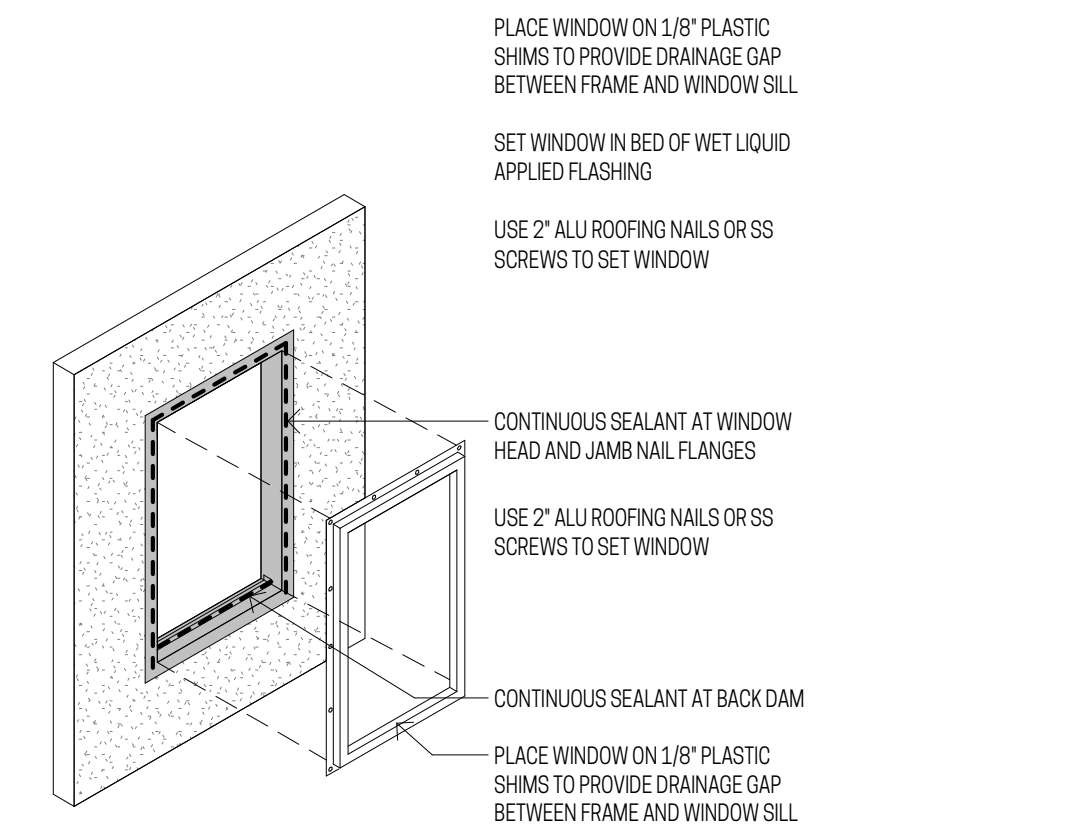
5 WINDOW JAMB
SCALE: 3"=1'-0"



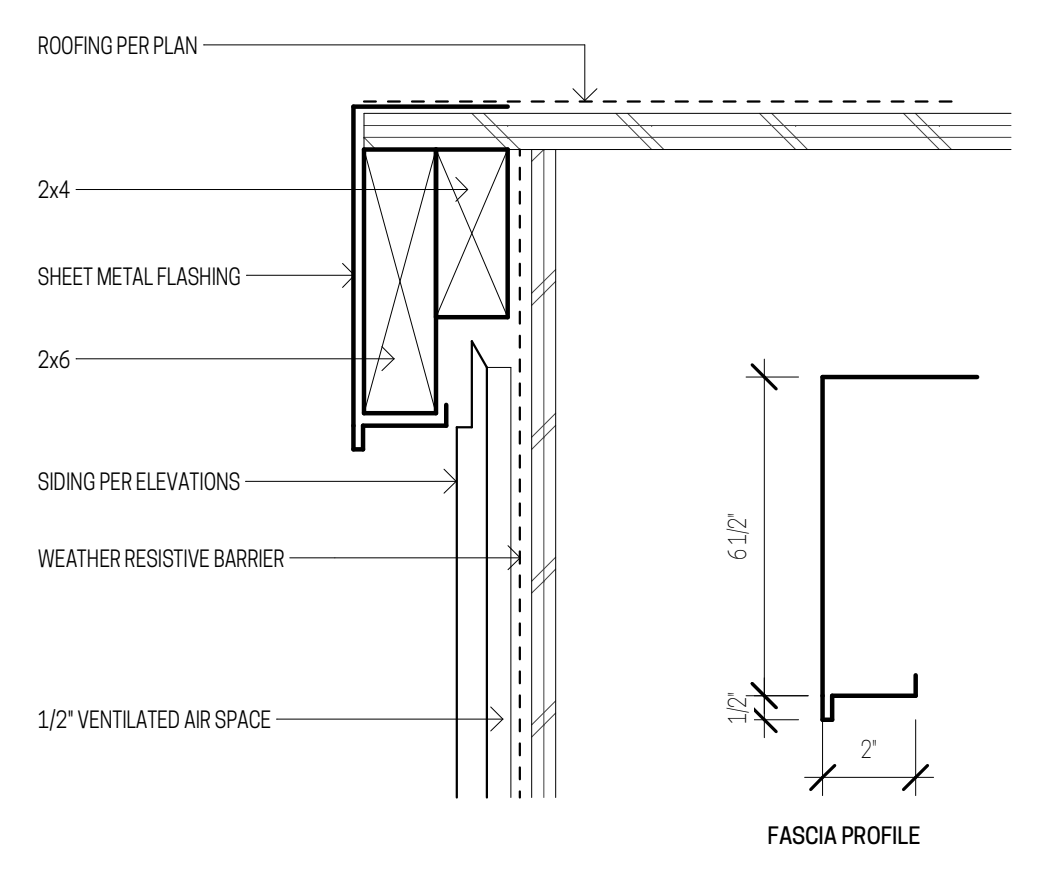
STEP 2: SET VENT FLANGE



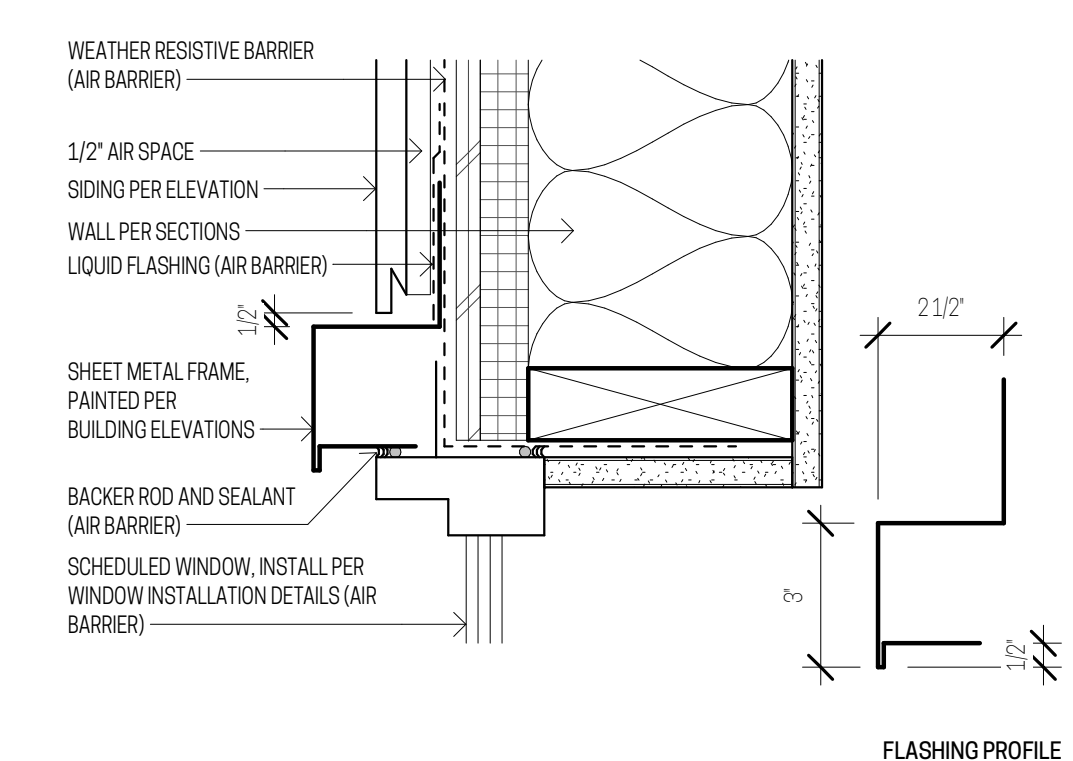
STEP 3: APPLY LIQUID FLASHING



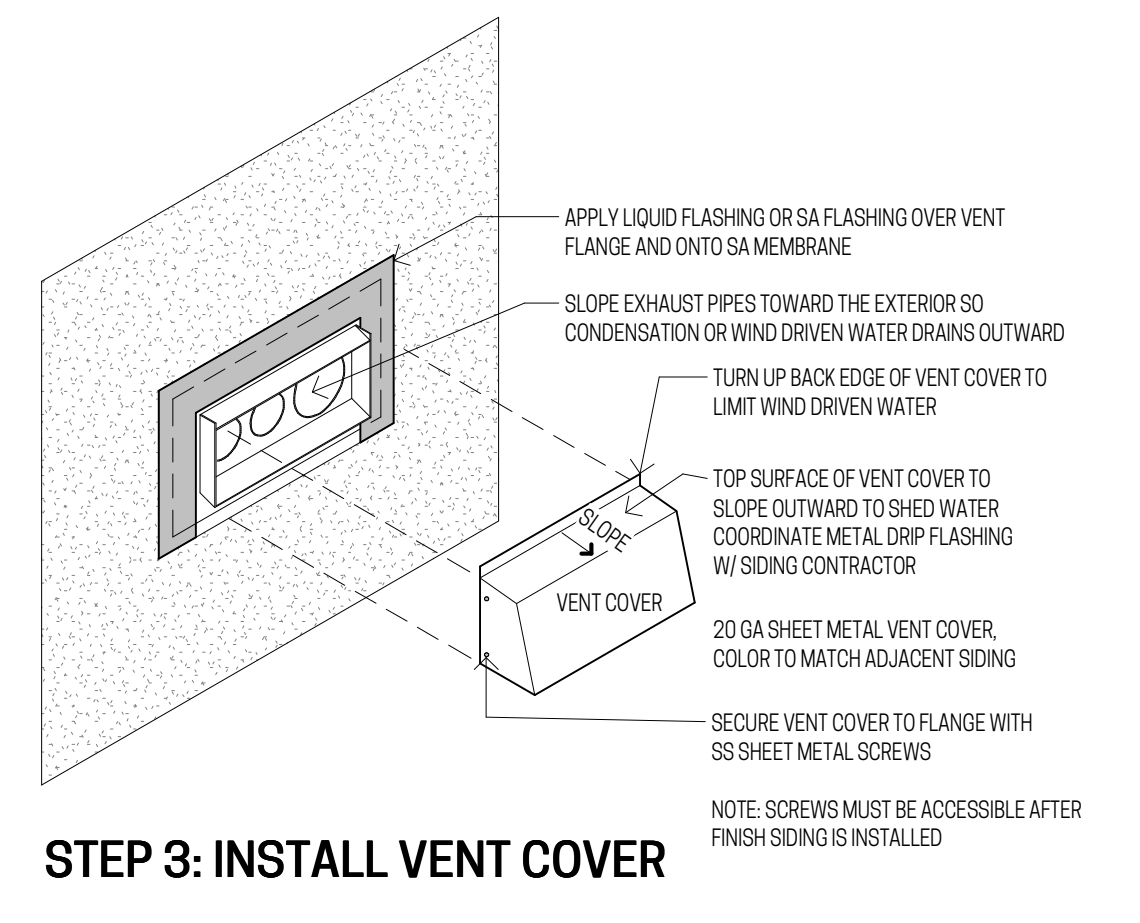
STEP 4: INSTALL WINDOW



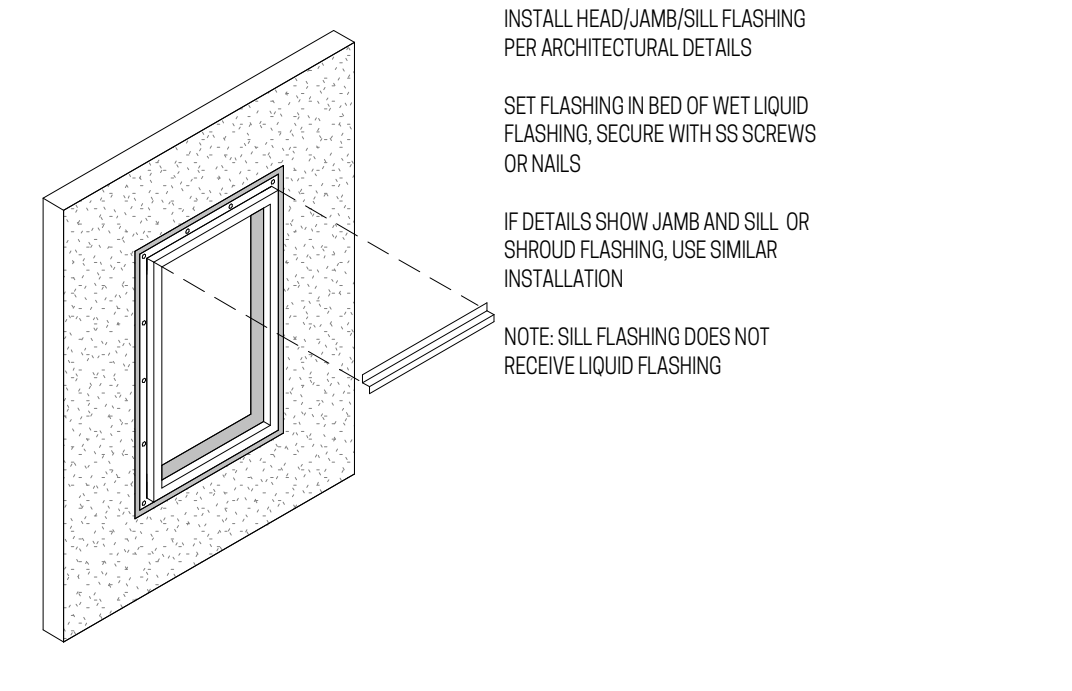
4 CHANNEL SIDING @ EAVE
SCALE: 3"=1'-0"



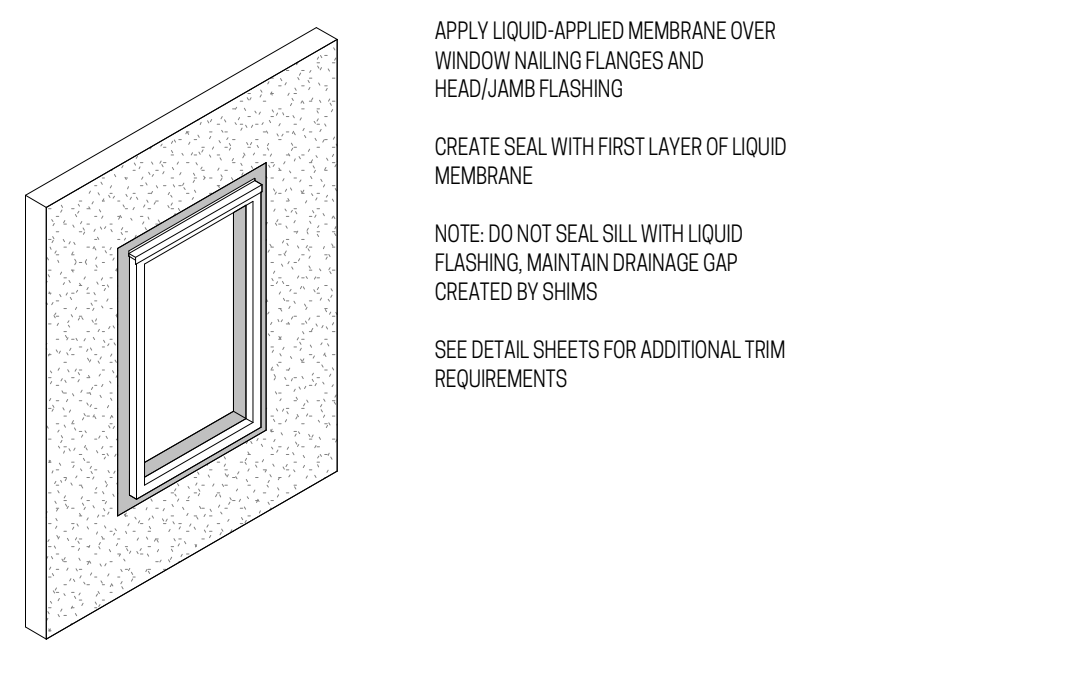
3 WINDOW HEAD
SCALE: 3"=1'-0"



2 EXHAUST TERMINATION
SCALE: 1/4"=1'-0"



STEP 5: INSTALL WINDOW FLASHING



STEP 6: APPLY LIQUID FLASHING

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

11106 REGISTERED ARCHITECT
Cady Chintis
CADY E. CHINTIS
STATE OF WASHINGTON

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7TH AVE TOWNHOMES BUILDING B

1200 7TH AVE SE
PUYALLUP, WA 98371

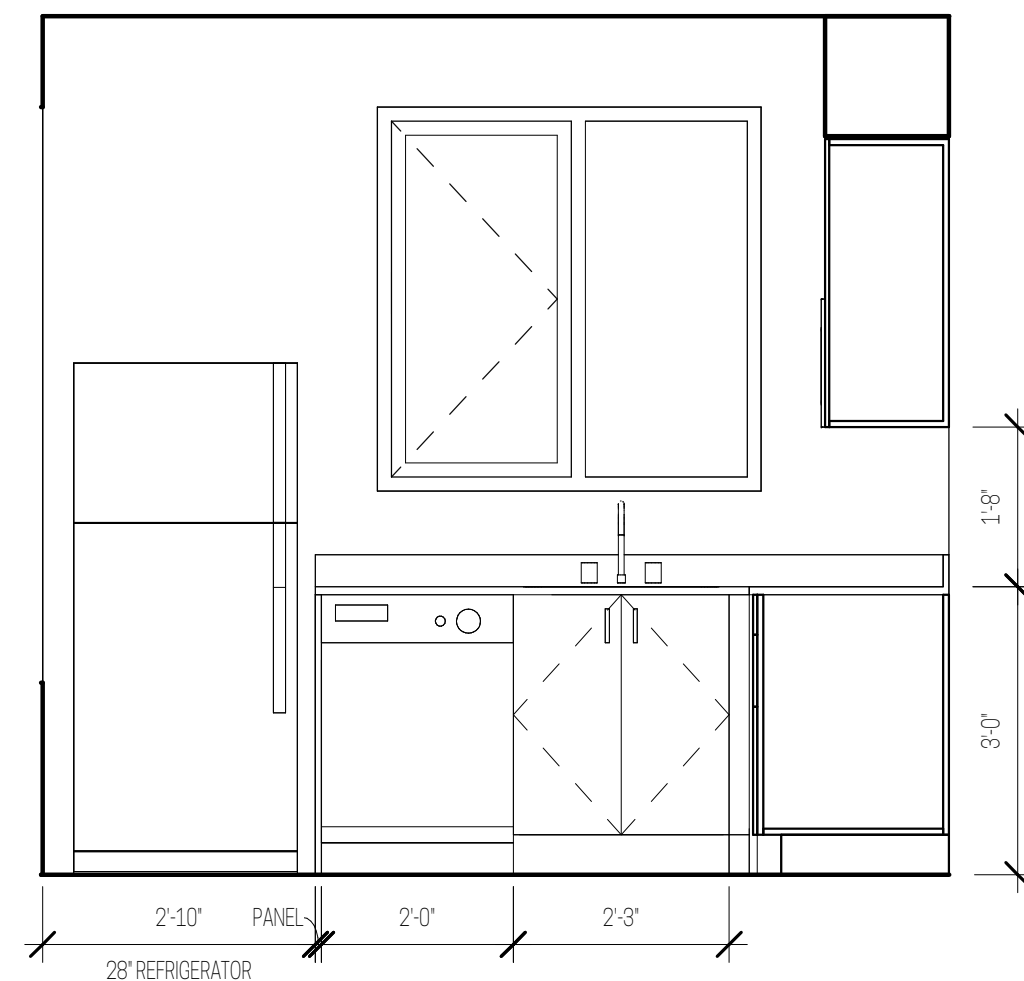
ISSUE	DATE
BLDG PERMIT APPLICATION	03/06/2025
PERMIT COMMENTS	04/29/2025

DETAILS SIDING & WINDOWS

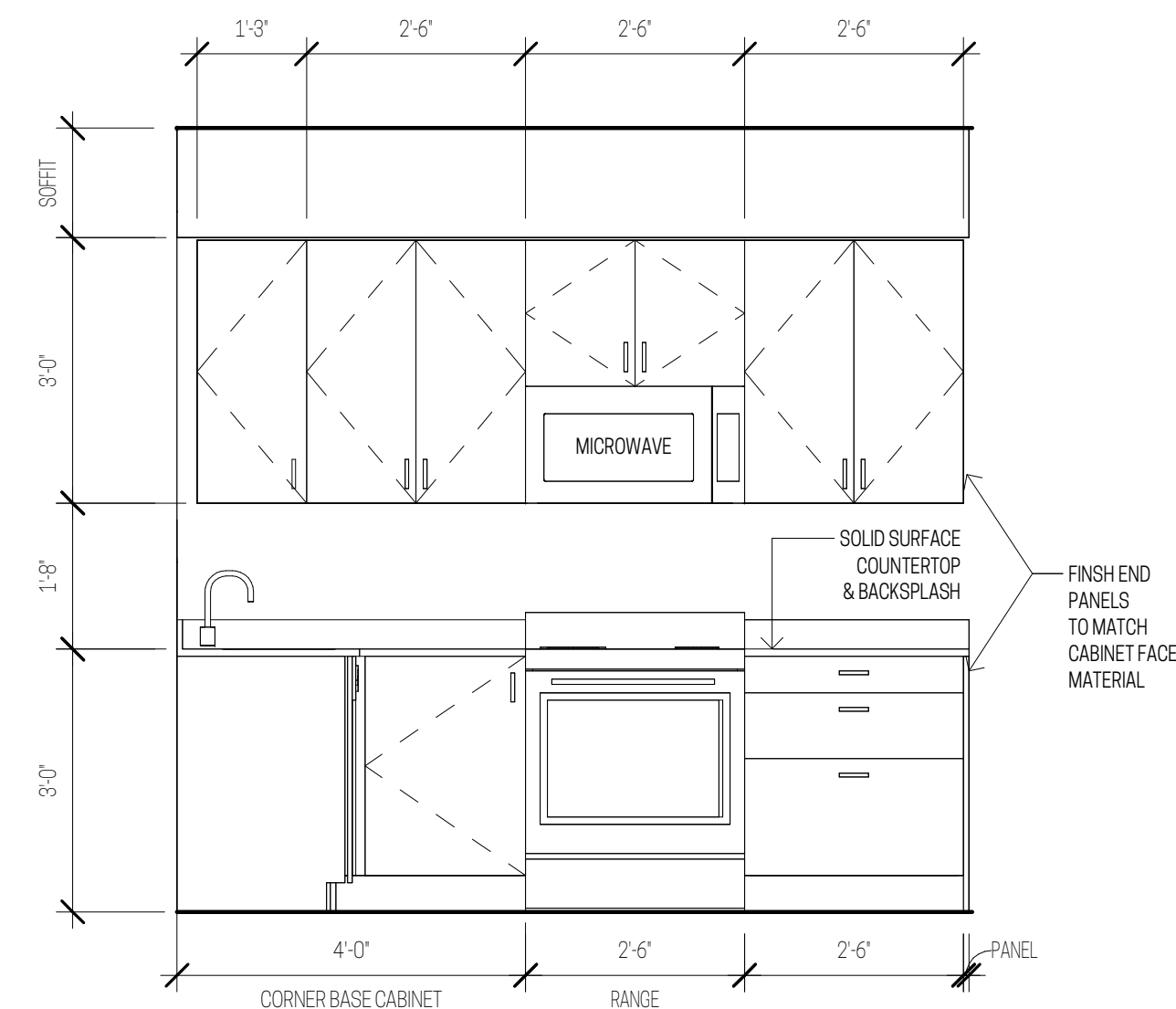
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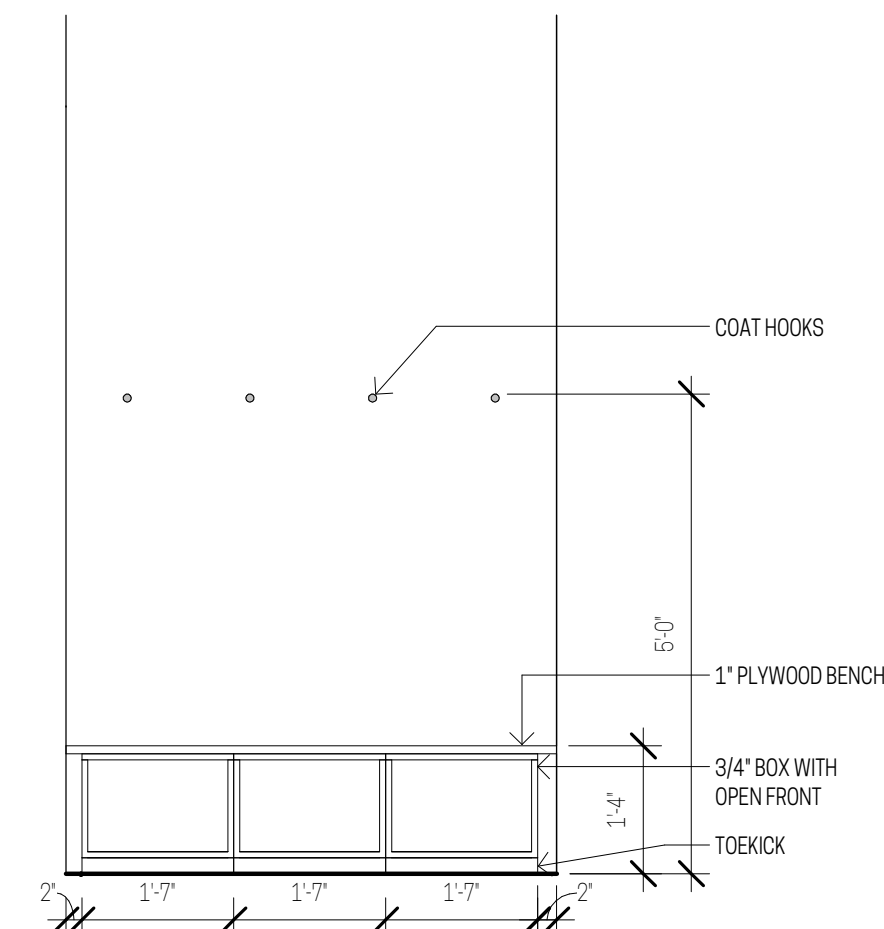
4 KITCHEN A101, A201, A301 VIEW
SCALE: 1/2" = 1'-0"



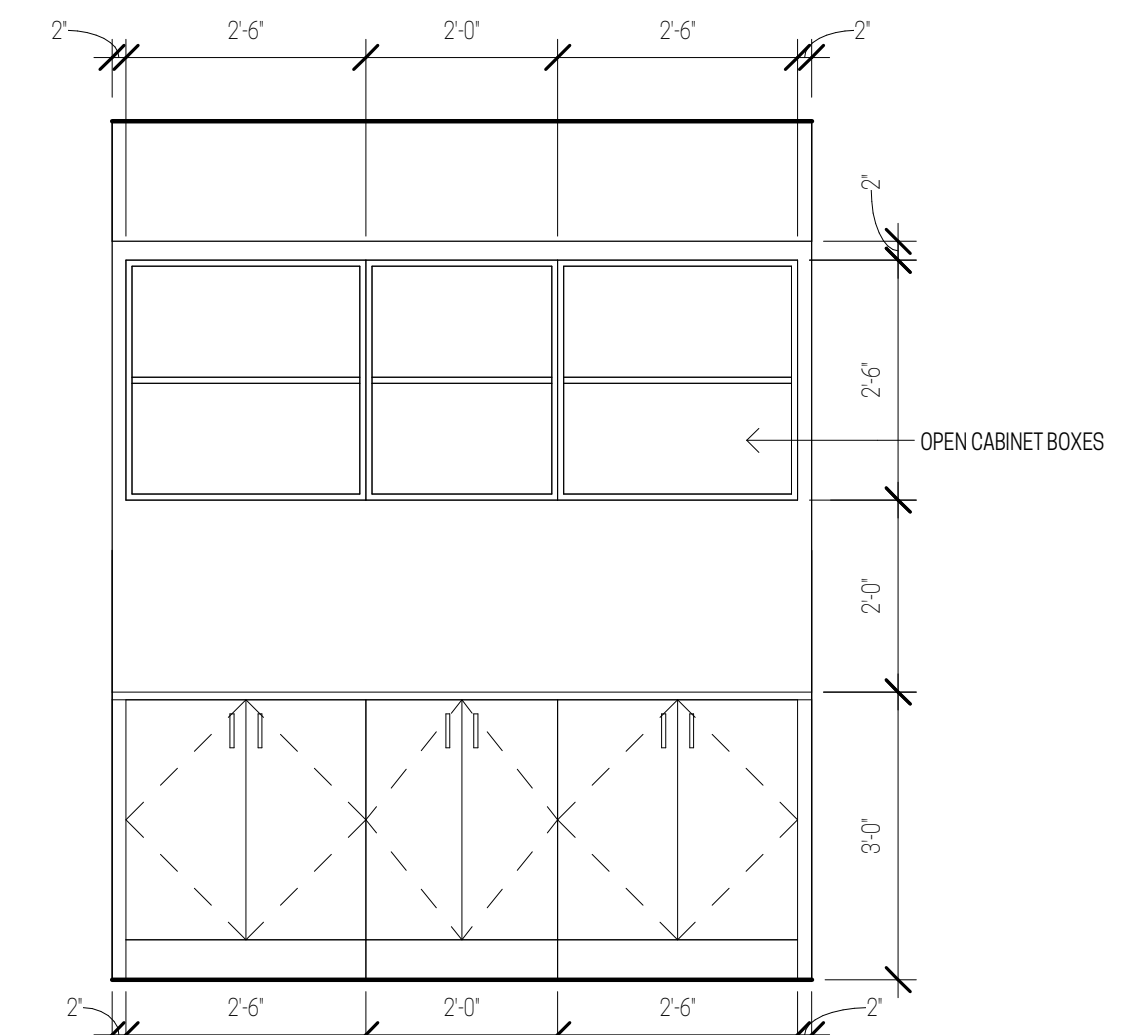
3 KITCHEN A101/A201/A301
SCALE: 1/2" = 1'-0"



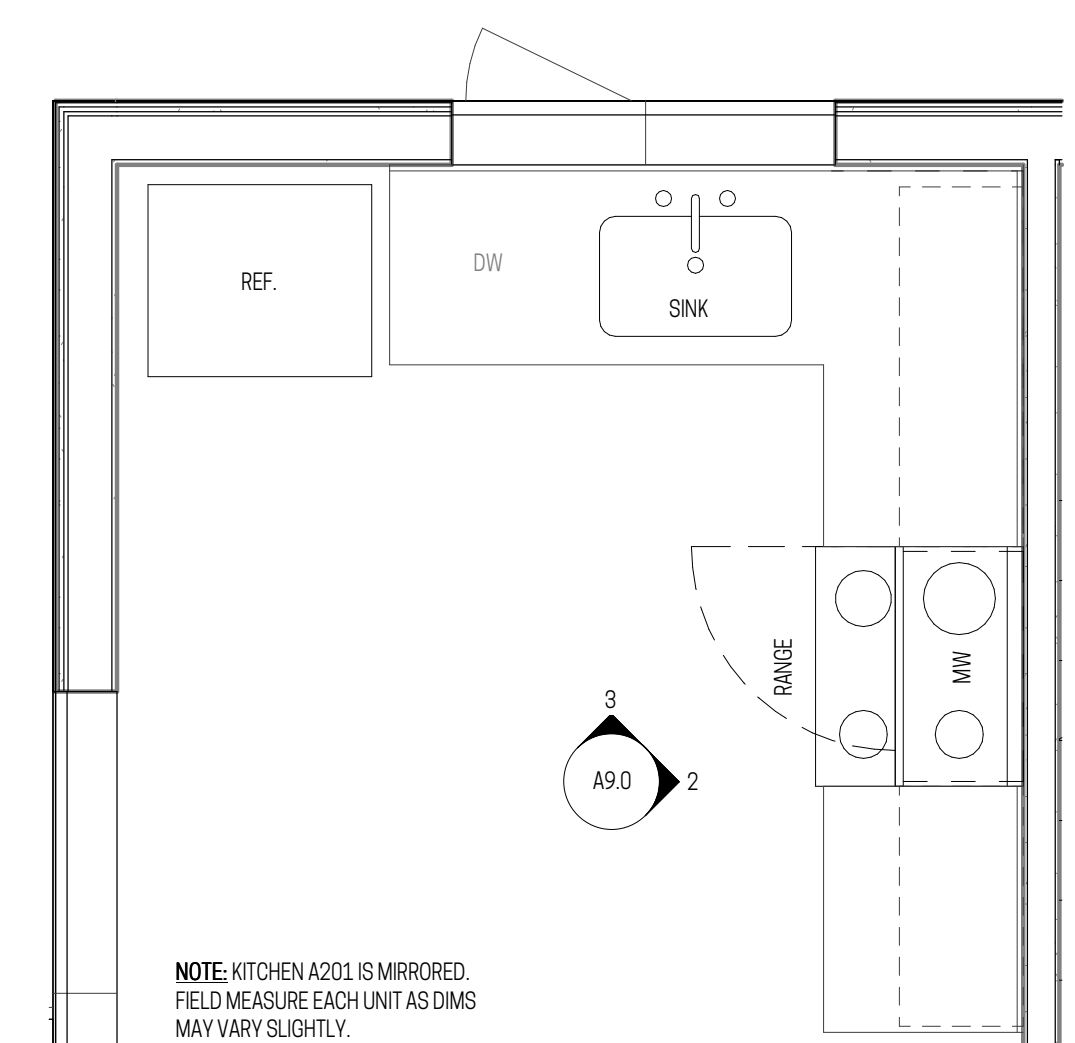
2 KITCHEN A101/A201/A301
SCALE: 1/2" = 1'-0"



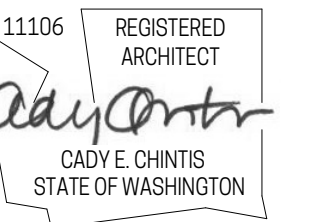
6 A101, A102, A103 ENTRY BENCH
SCALE: 1/2" = 1'-0"



5 A101, A102, A103 HALL CABINETS
SCALE: 1/2" = 1'-0"



1 KITCHEN A101/A201/A301
SCALE: 1/2" = 1'-0"



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**7TH AVE TOWNHOMES
BUILDING B**

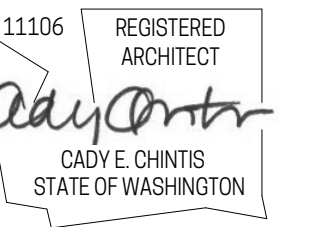
1200 7TH AVE SE
PUYALLUP, WA 98371

ISSUE	DATE
BLDG PERMIT APPLICATION	03/06/2025
PERMIT COMMENTS	04/29/2025

**BUILDING A - ENLARGED
PLANS + INTERIOR
ELEVATIONS**

A9.0

This sheet for reference only. See permit application PRRNTH20250328 for Building A.
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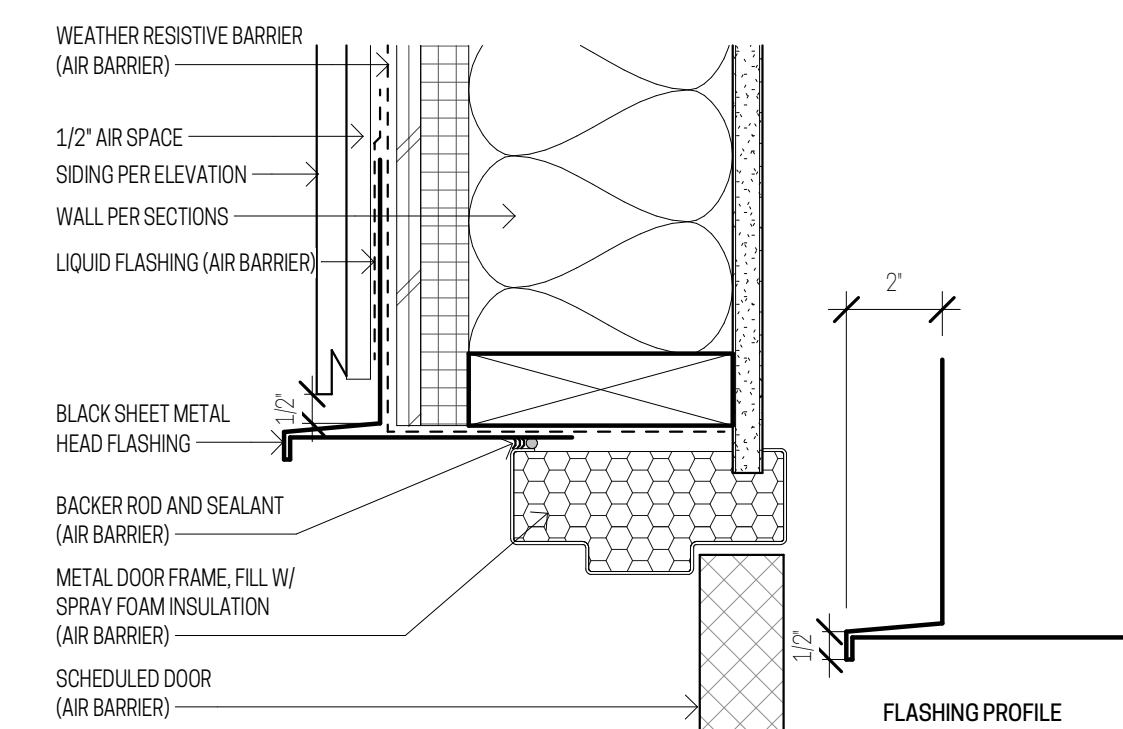
7TH AVE TOWNHOMES BUILDING B

1200 7TH AVE SE
PUYALLUP, WA 98371

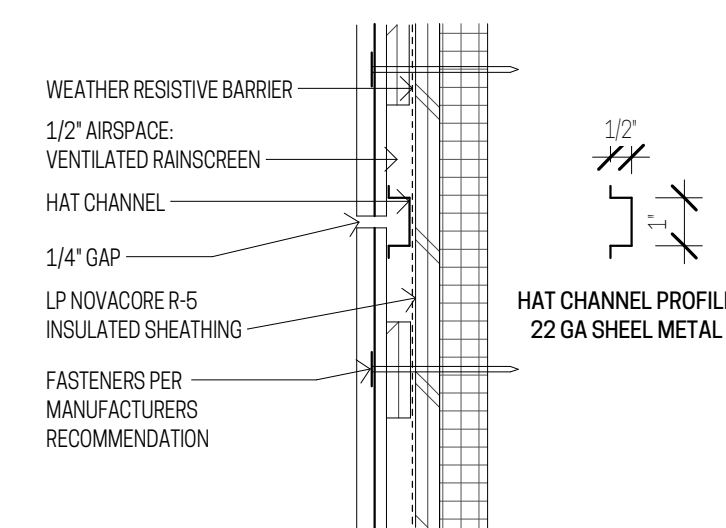
ISSUE	DATE
BLDG PERMIT APPLICATION	03/06/2025
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DETAILS SIDING & DOORS

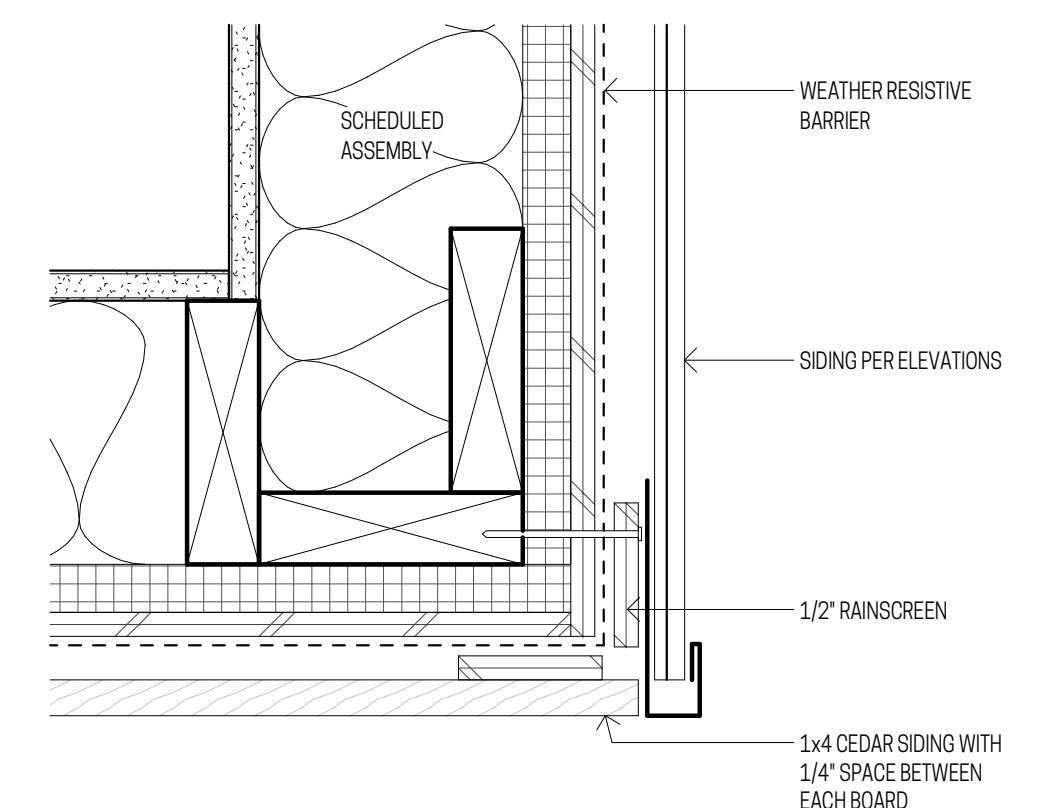
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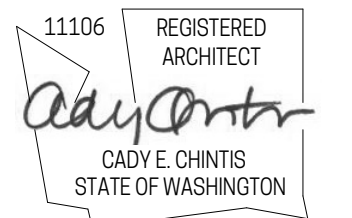
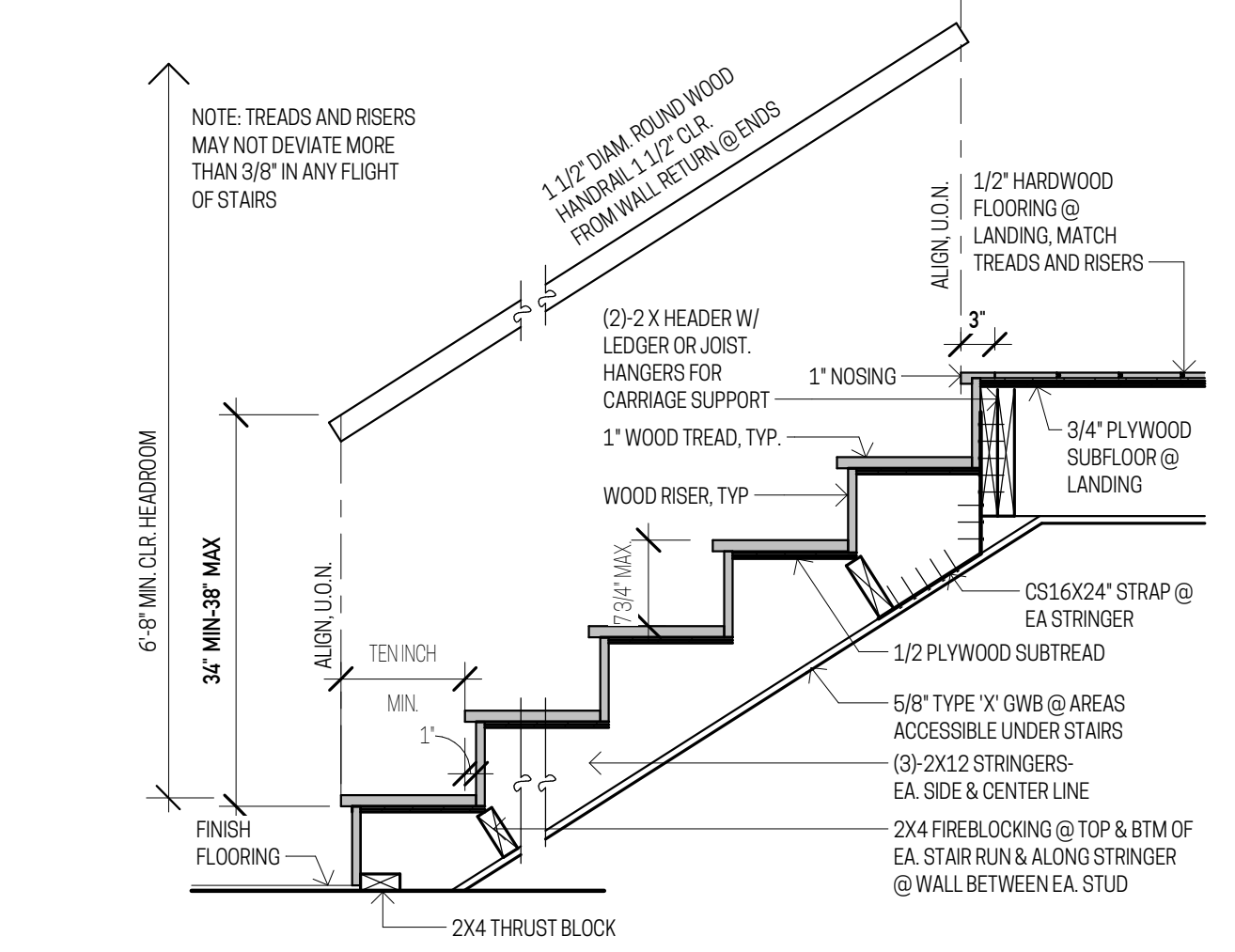
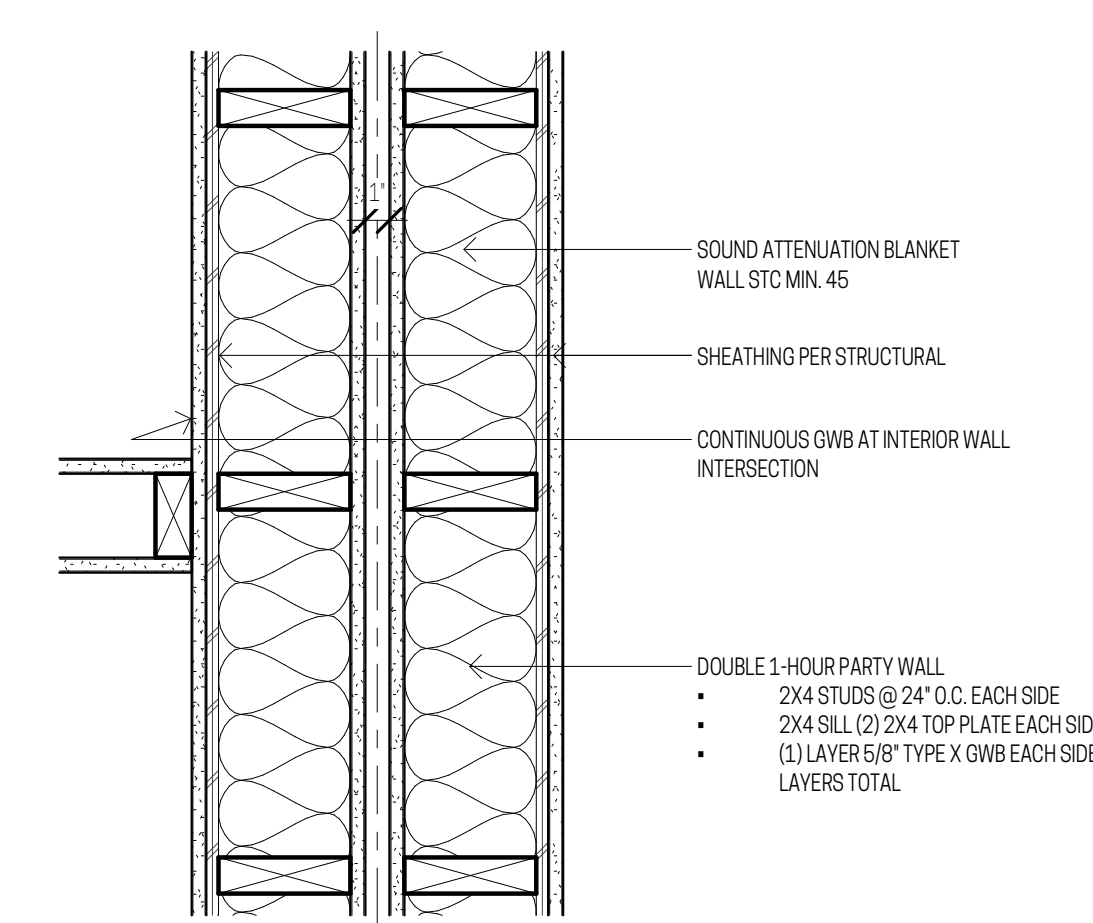
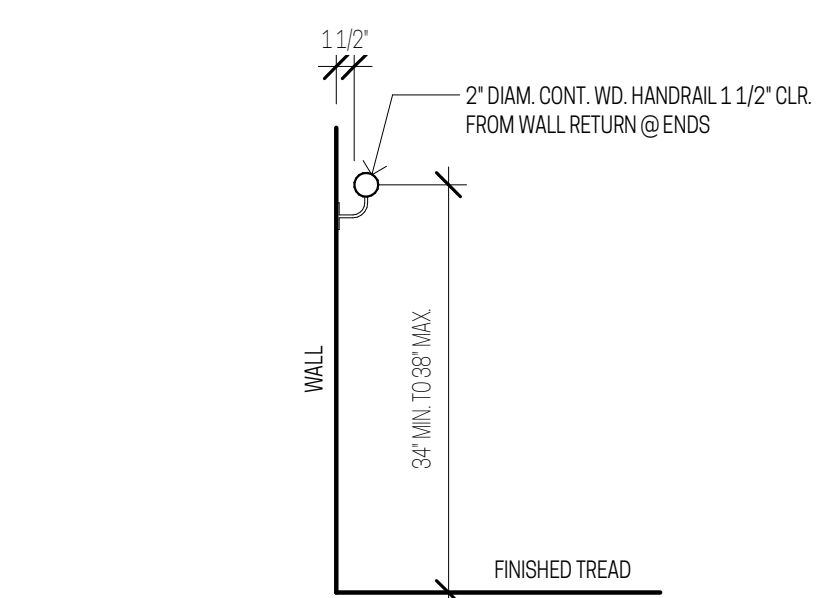
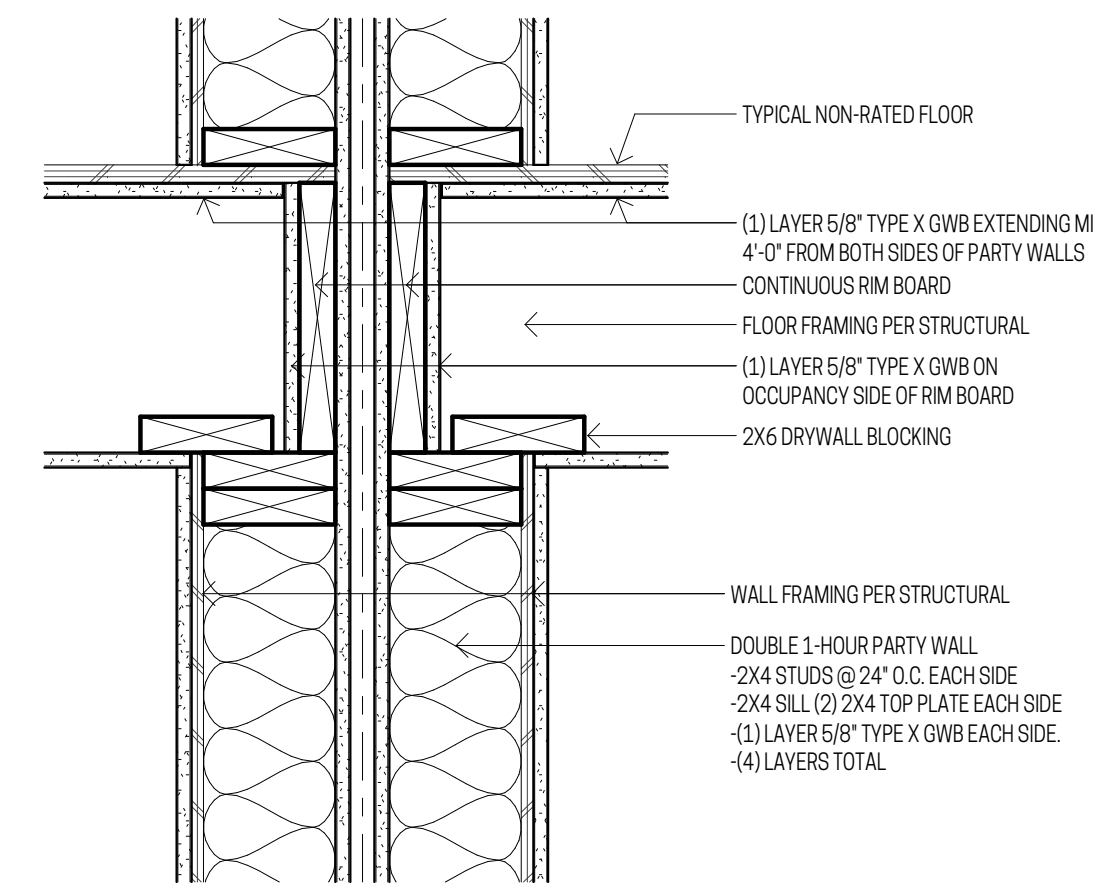
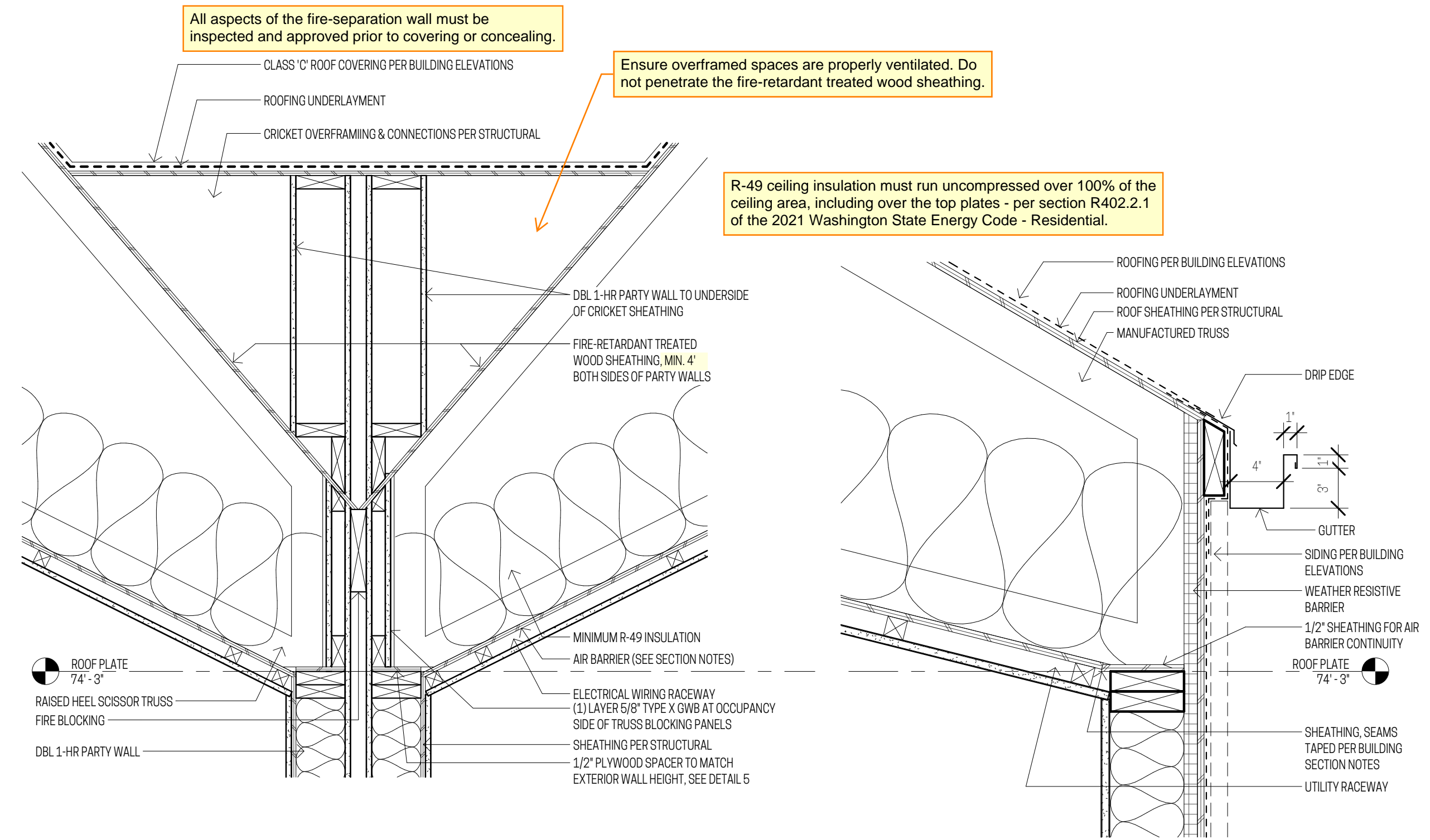
3 DOOR HEAD
SCALE: 3" = 1'-0"



2 CHANNEL VERTICAL PANEL JOINT
SCALE: 3" = 1'-0"



1 CHANNEL AND 1x4 WOOD CORNER
SCALE: 3" = 1'-0"



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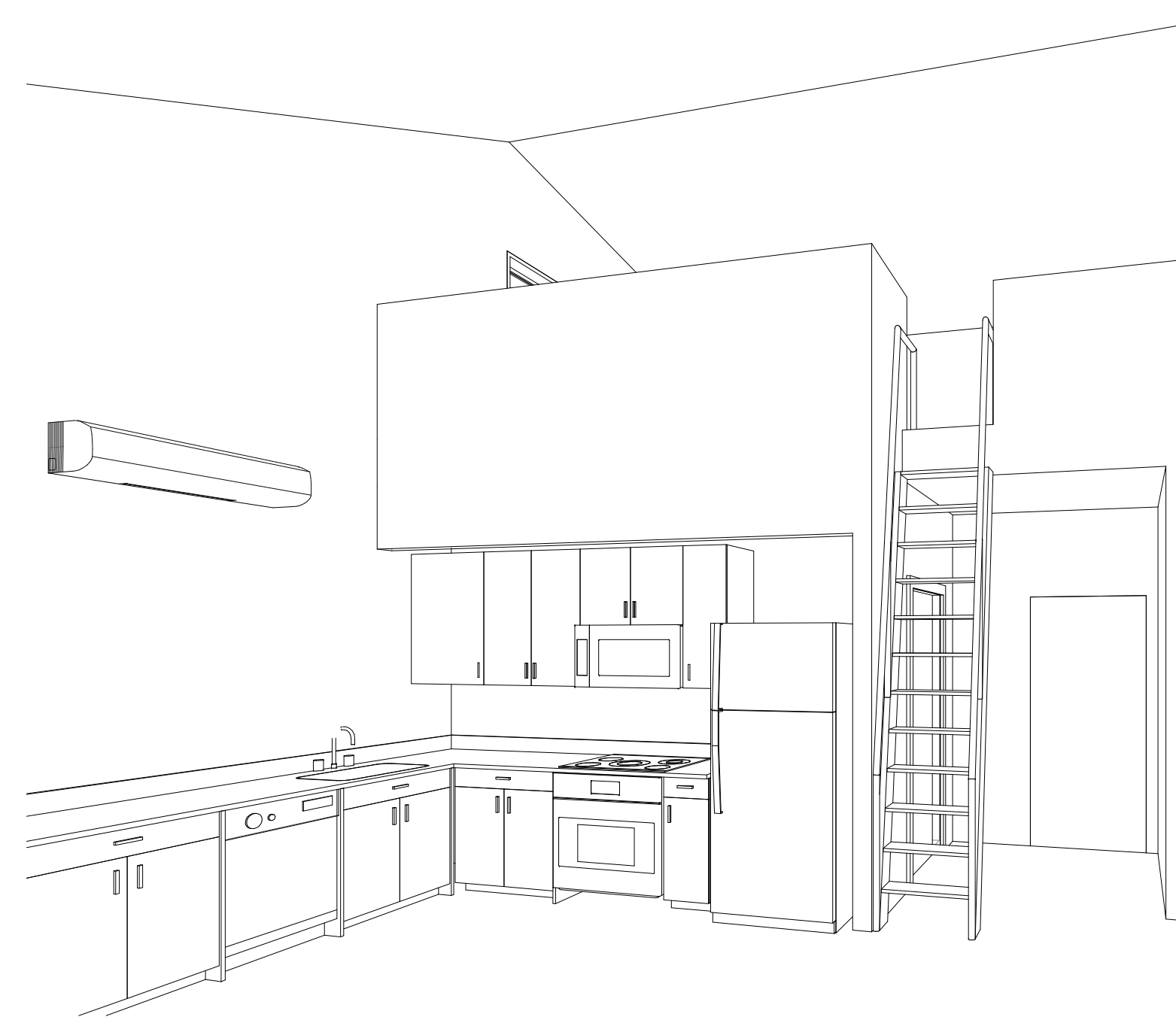
**7TH AVE TOWNHOMES
BUILDING B**

1200 7TH AVE SE
PUYALLUP, WA 98371

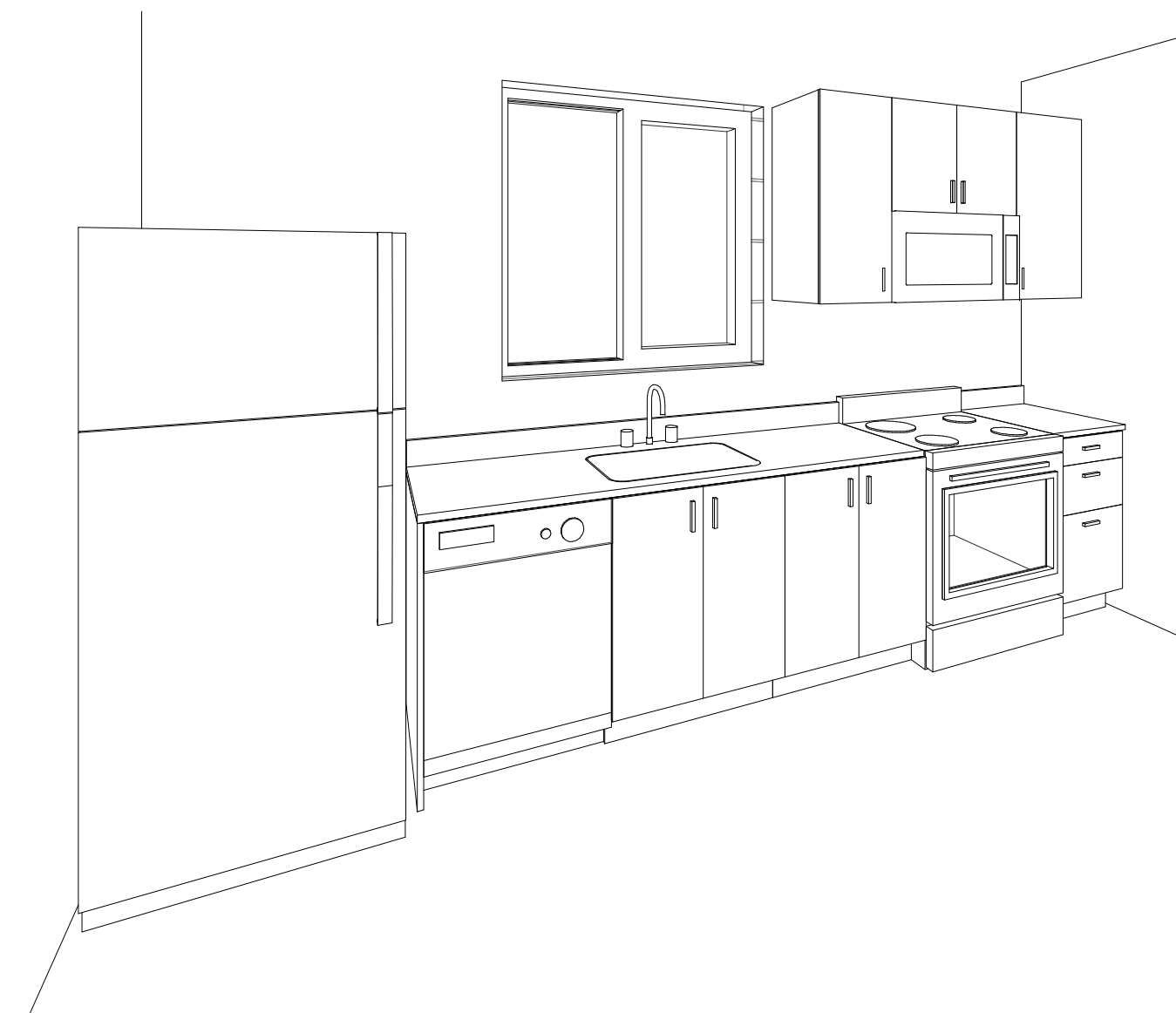
ISSUE	DATE
BLDG PERMIT APPLICATION	03/06/2025
PERMIT COMMENTS	04/29/2025

DETAILS FRAMING

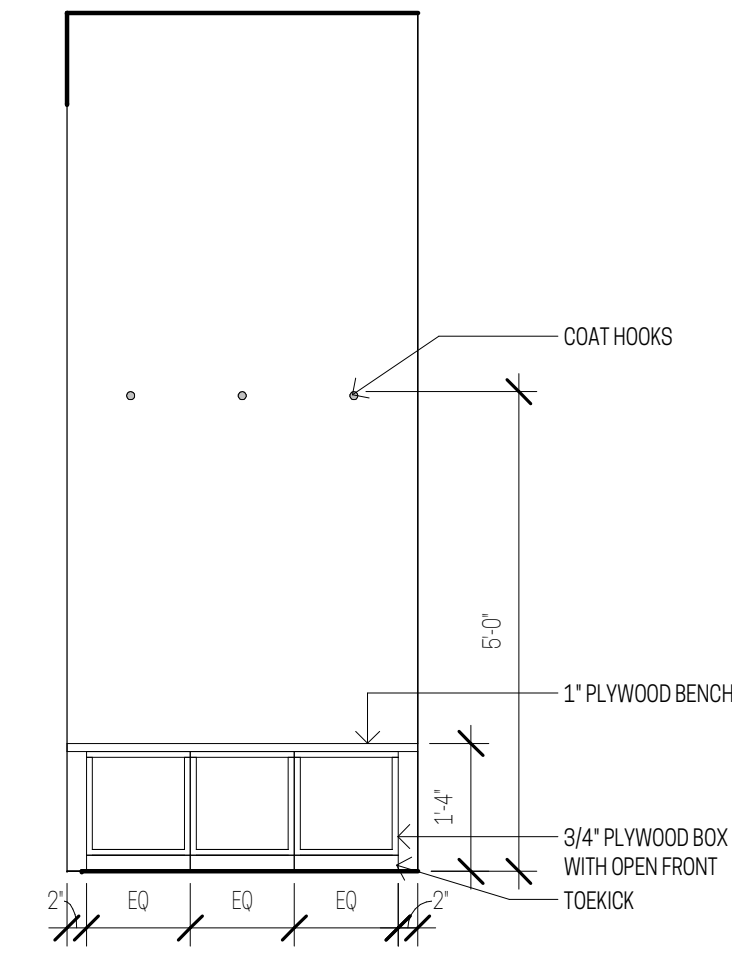
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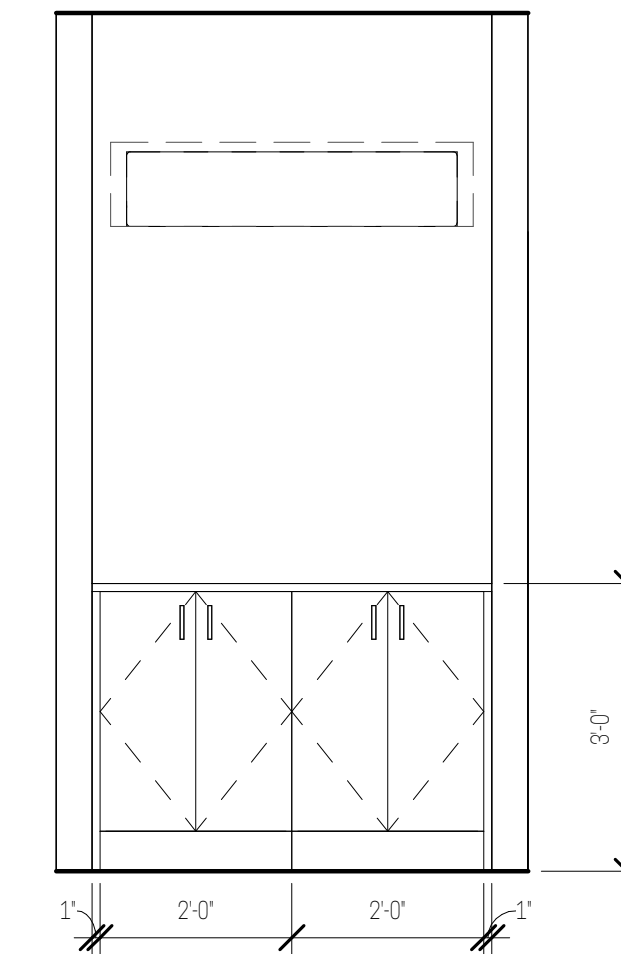
7 KITCHEN B101
SCALE:



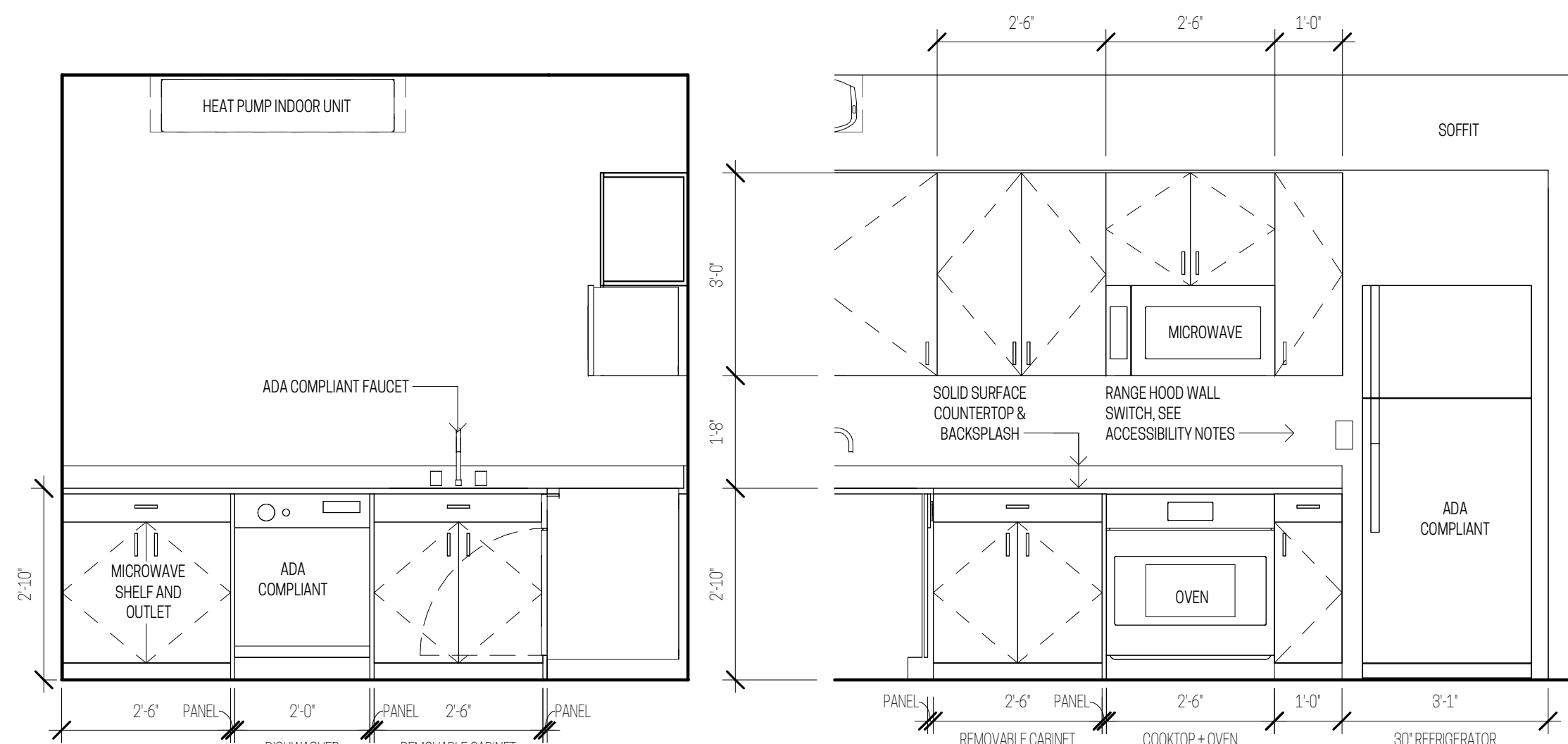
3 KITCHEN B201, B301 VIEW
SCALE:



9 B201/301 ENTRY BENCH
SCALE: 1/2" = 1'-0"

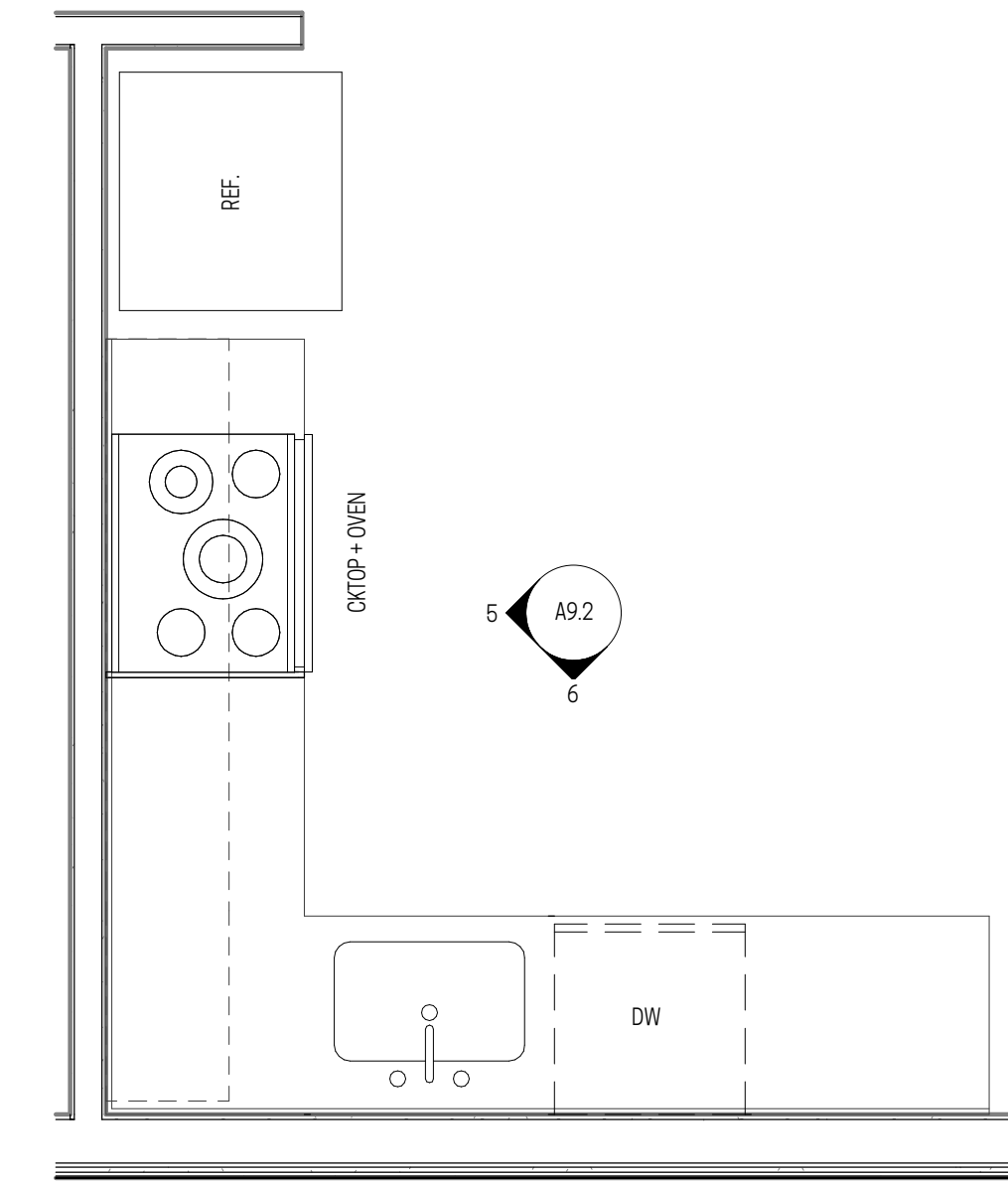


8 B201/B301 HALL CABINETS
SCALE: 1/2" = 1'-0"

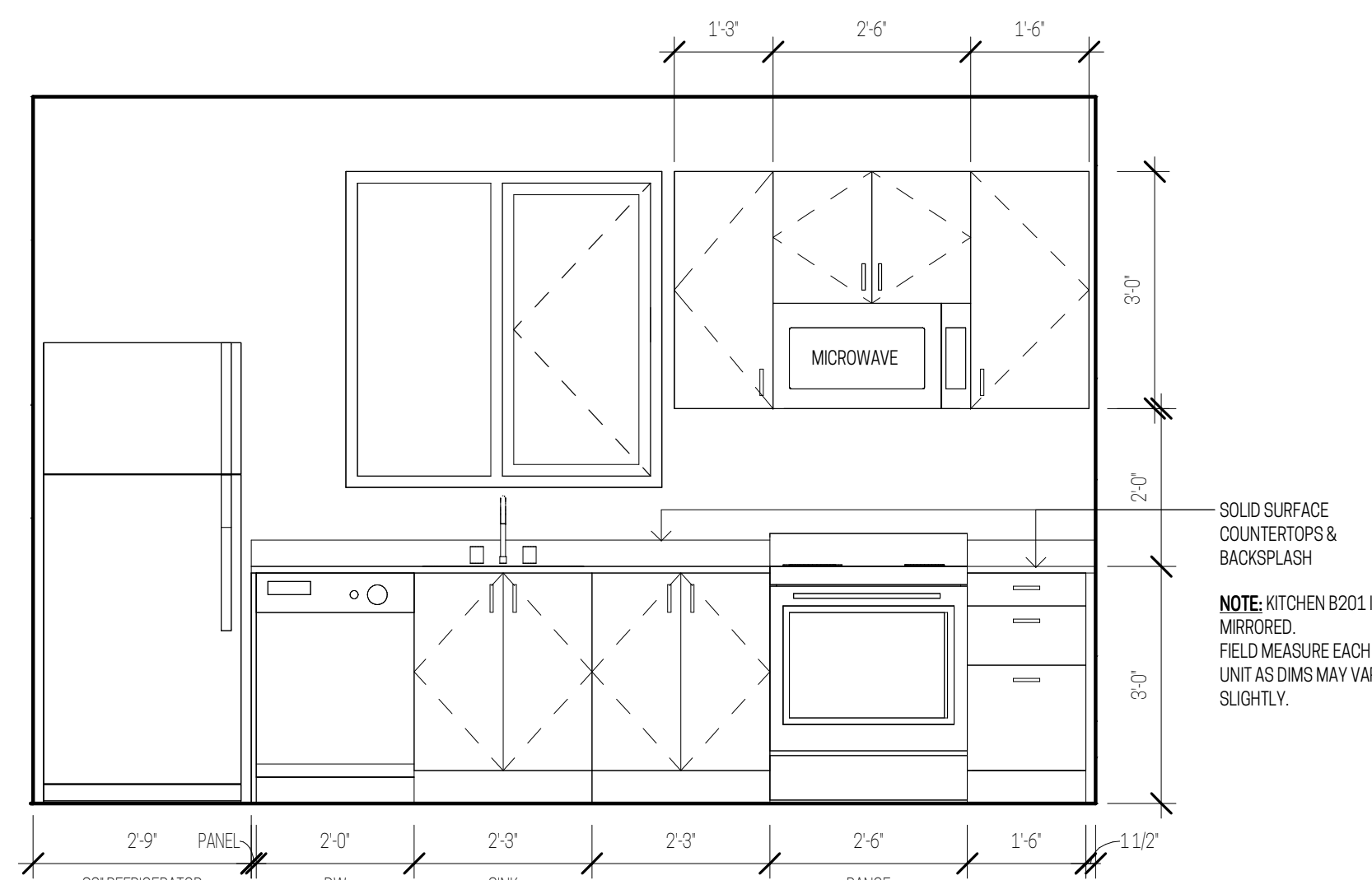


6 KITCHEN B101 EAST
SCALE: 1/2" = 1'-0"

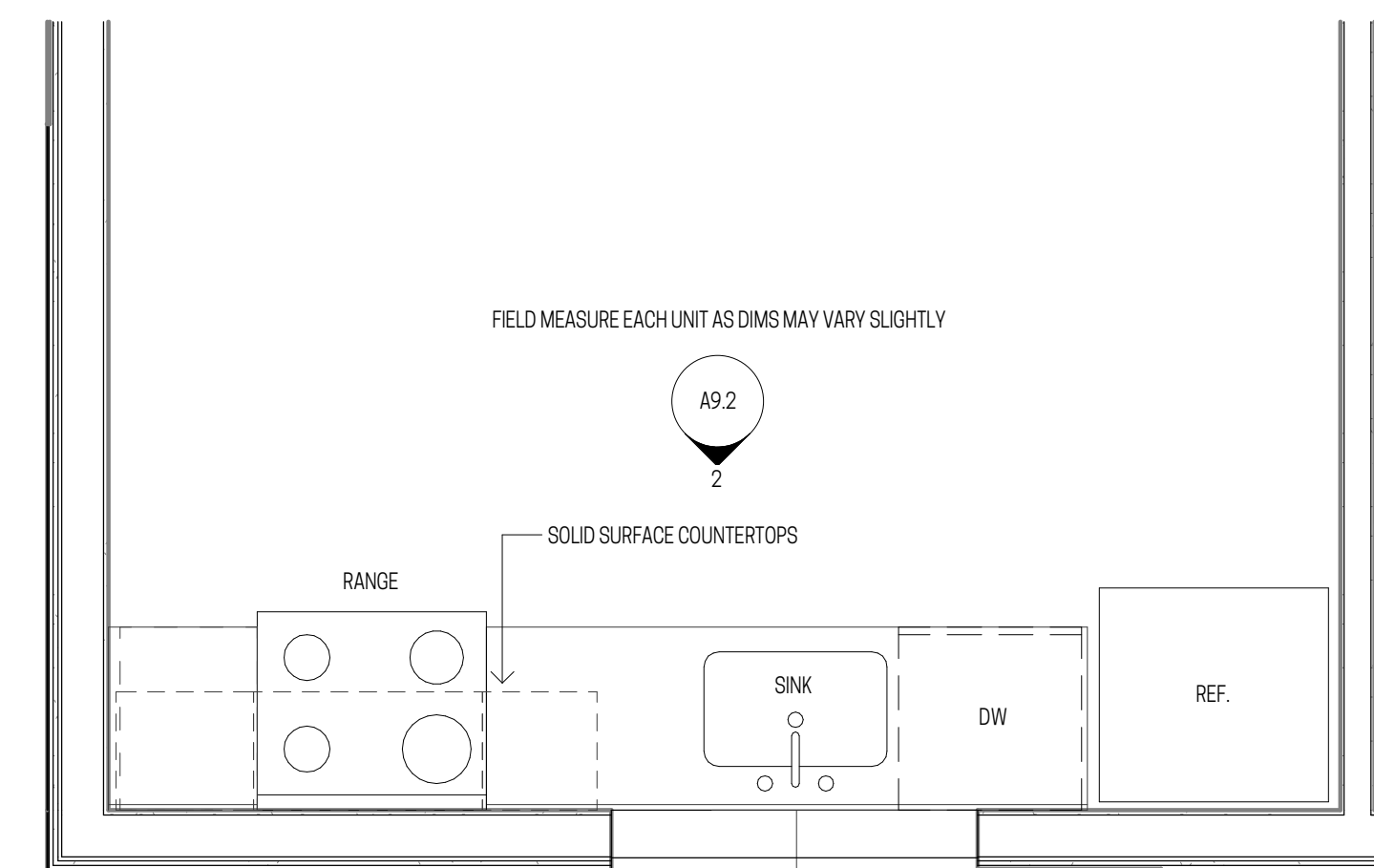
5 KITCHEN B101 SOUTH
SCALE: 1/2" = 1'-0"



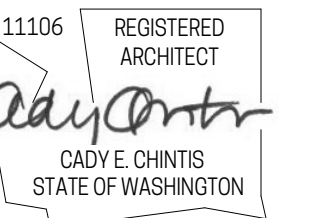
4 KITCHEN B101
SCALE: 1/2" = 1'-0"



2 KITCHEN B201/B301
SCALE: 1/2" = 1'-0"



1 KITCHEN B201/B301
SCALE: 1/2" = 1'-0"



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7TH AVE TOWNHOMES
BUILDING B

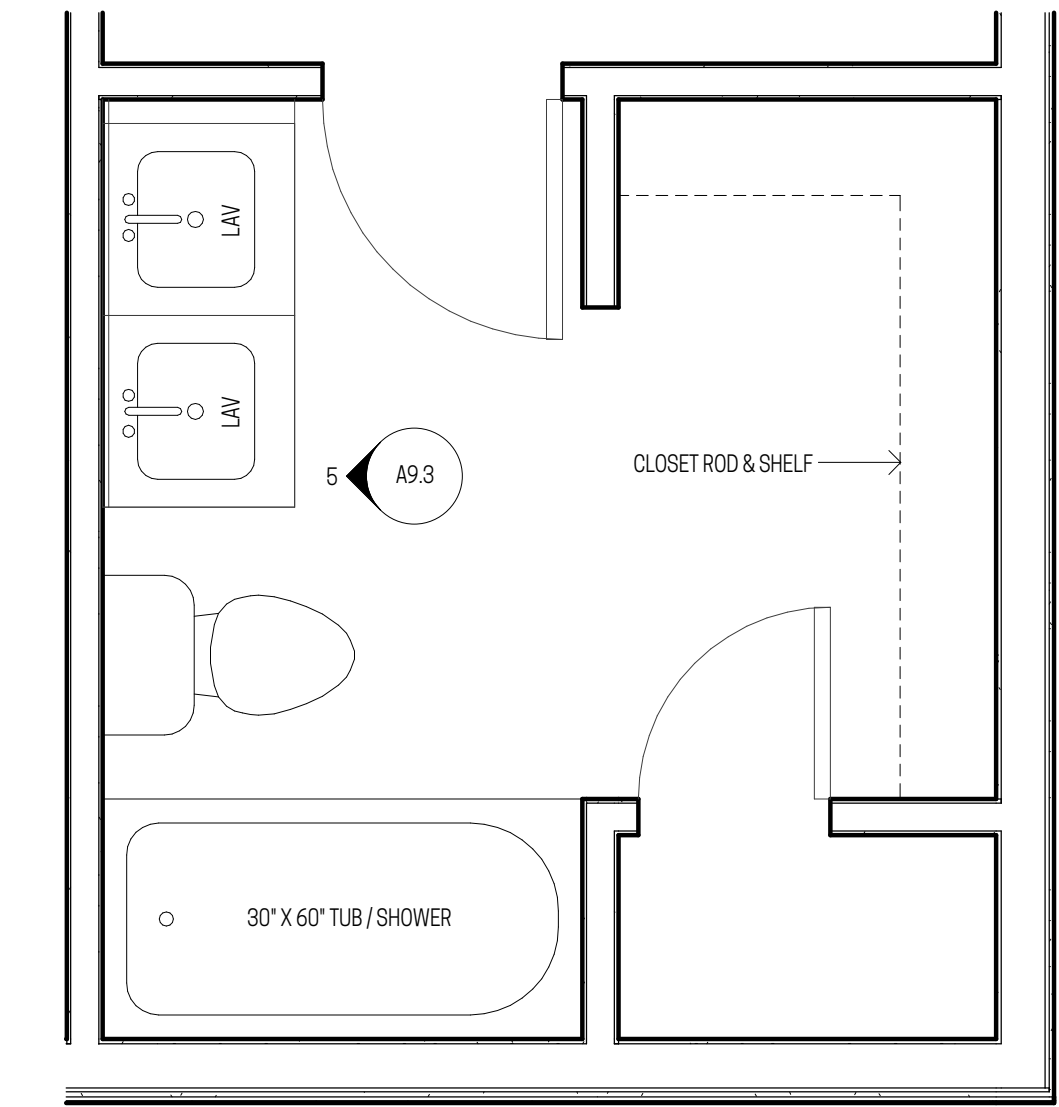
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PERMIT COMMENTS	04/29/2025

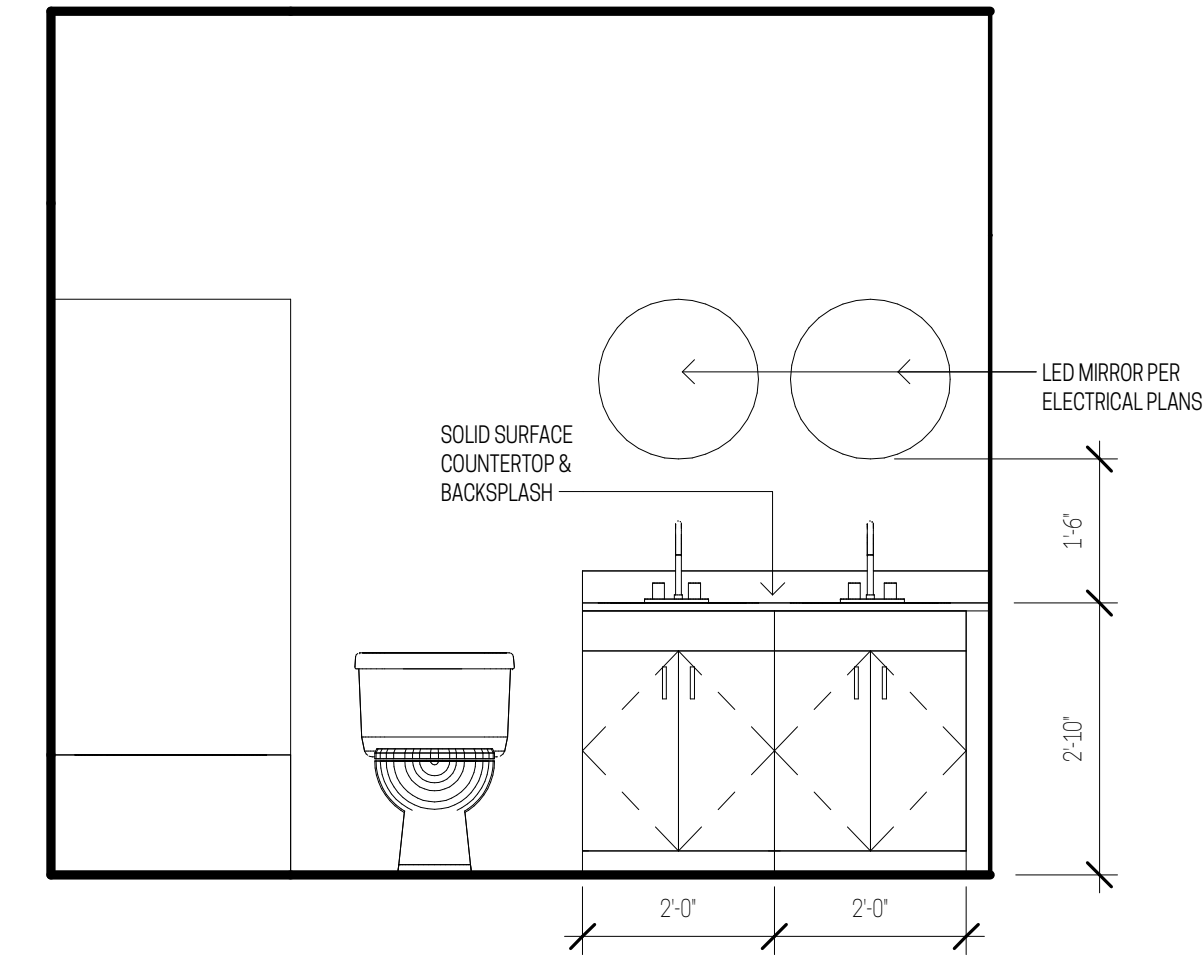
BUILDING B - ENLARGED
PLANS + INTERIOR
ELEVATIONS

A9.2

NOTE: PLAN ORIENTATION FOR BATH A111 & A311 SHOWN. BATH A211, B211 & B311 SIMILAR (MIRRORED) DIMENSIONS MAY VARY SLIGHTLY BETWEEN UNITS

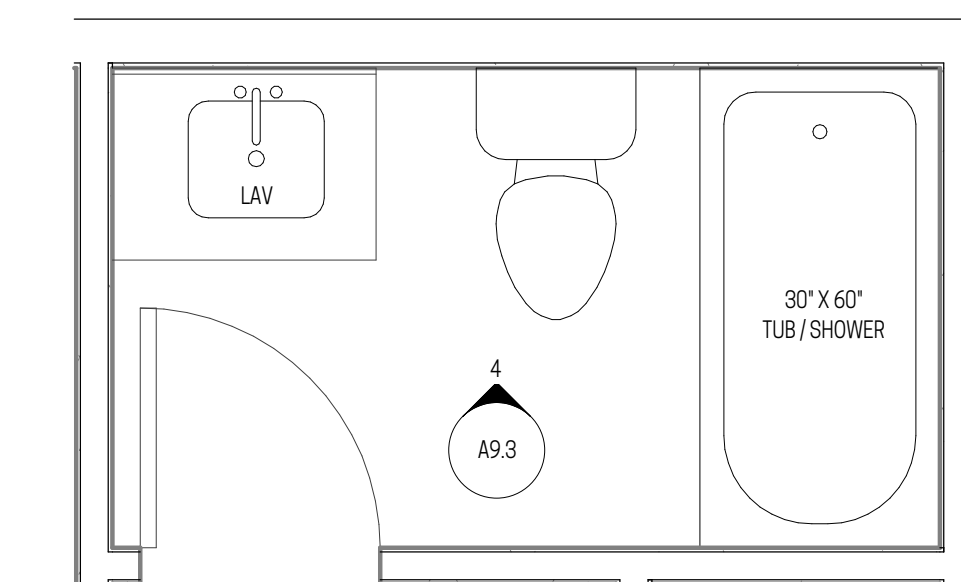


6 BATHROOM B - UPPER LEVEL PLAN
SCALE: 1/2" = 1'-0"

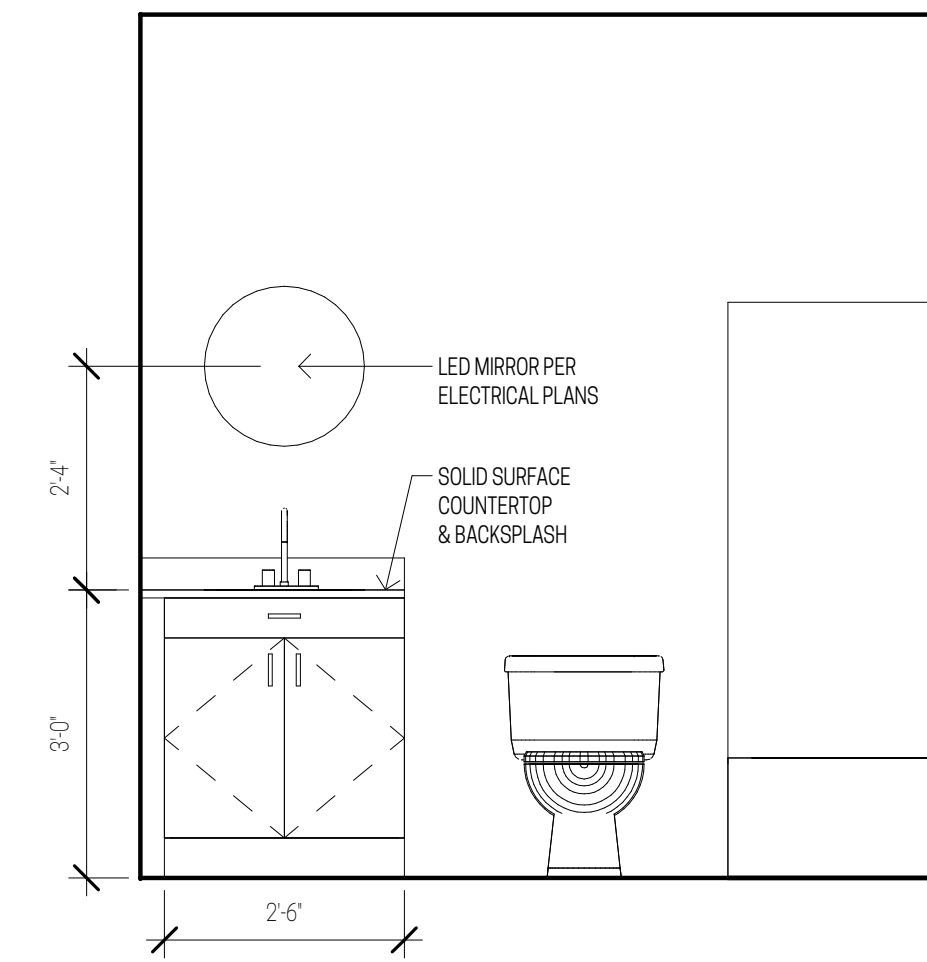


5 BATH 1 ELEVATION
SCALE: 1/2" = 1'-0"

NOTE: PLAN ORIENTATION FOR BATH 2 B309 SHOWN. BATH B209 SIMILAR (MIRRORED) DIMENSIONS MAY VARY SLIGHTLY BETWEEN UNITS



3 BATH 2 PLAN - BLDG B
SCALE: 1/2" = 1'-0"



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

11106 REGISTERED ARCHITECT
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7TH AVE TOWNHOMES BUILDING B

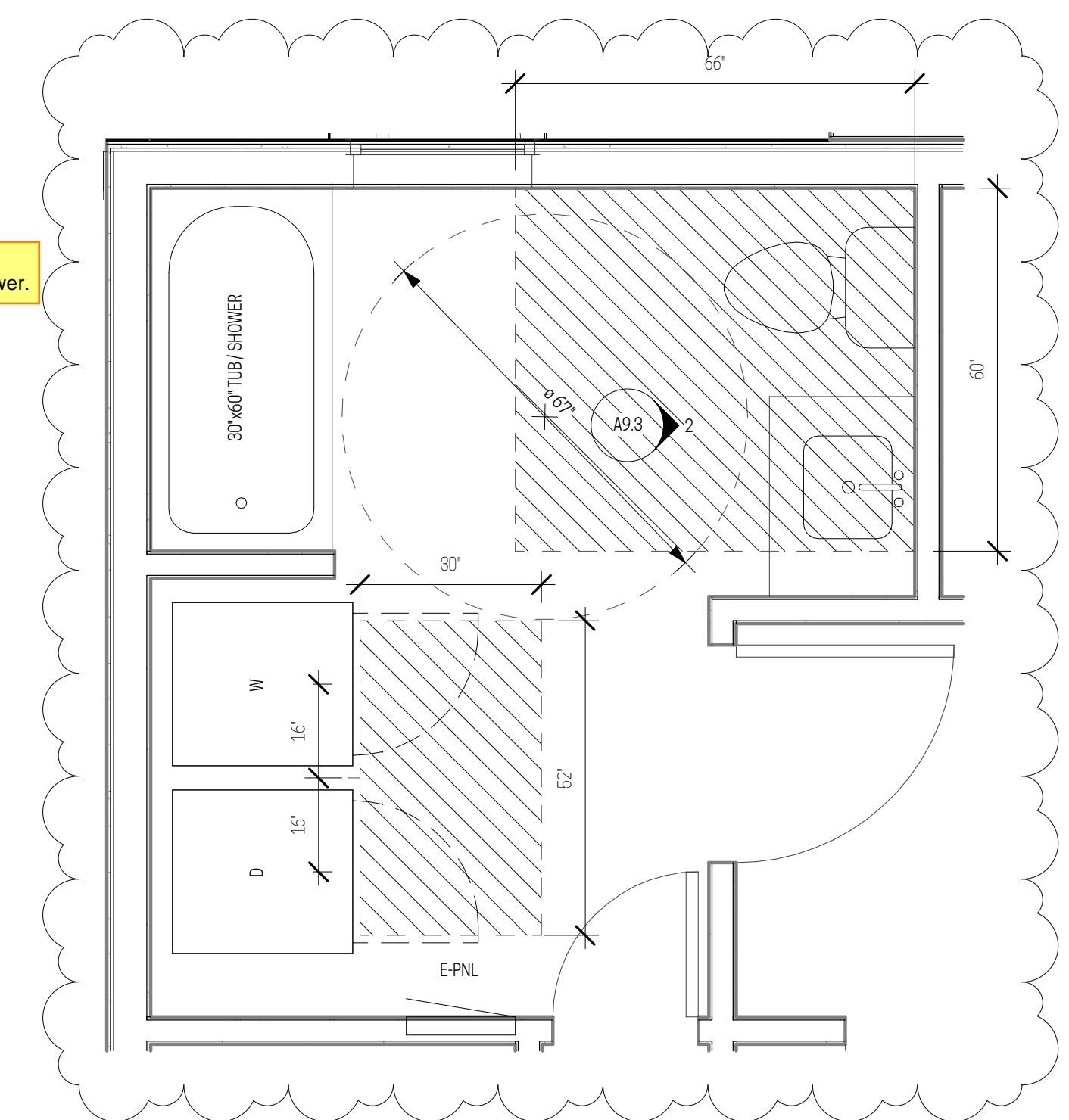
1200 7TH AVE SE
PUYALLUP, WA 98371

ISSUE	DATE
BLDG PERMIT APPLICATION	03/06/2025
PERMIT COMMENTS	04/29/2025

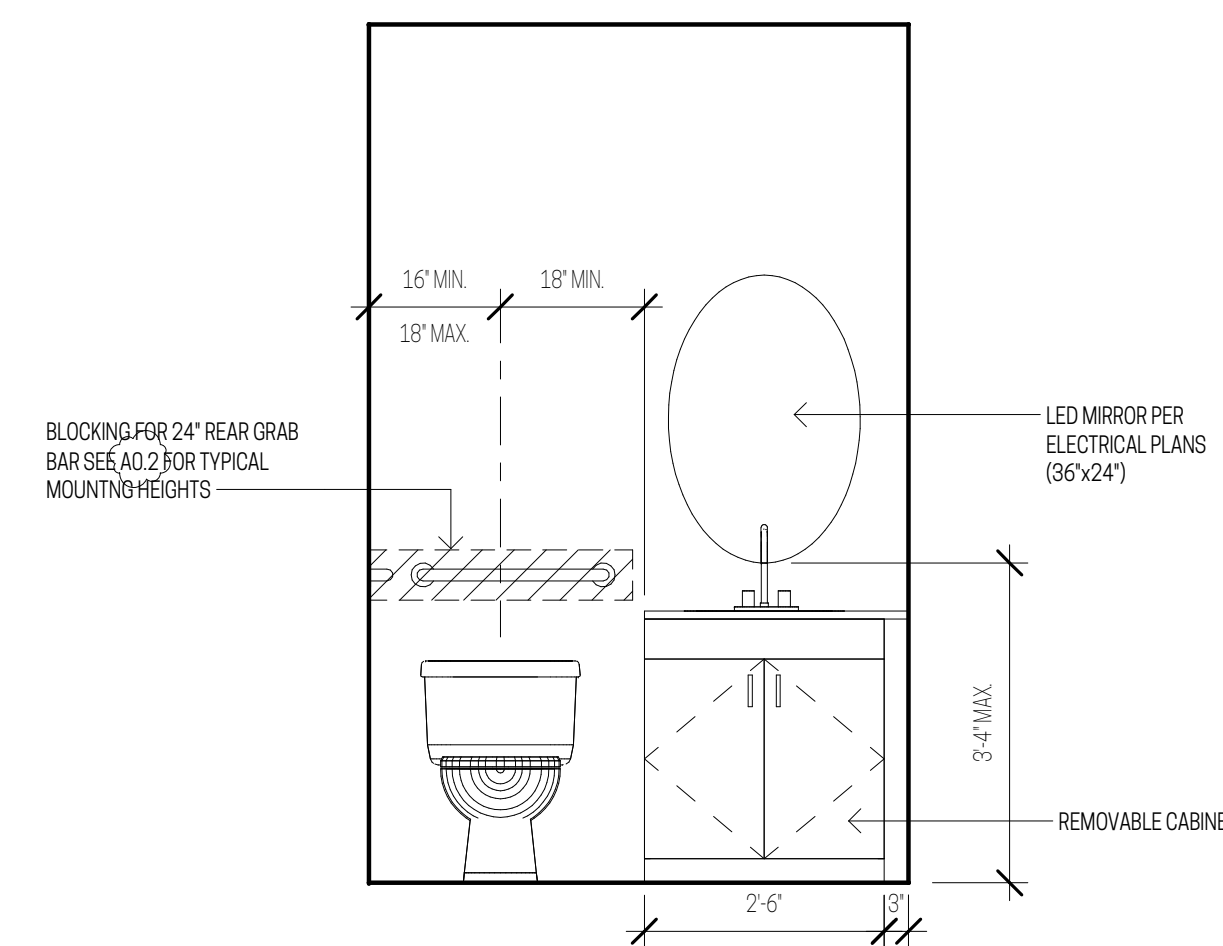
BUILDING B - ENLARGED PLANS + INTERIOR ELEVATIONS

A9.3

See sheet A0.2 for requirements at tub/shower.



1 BATH B102
SCALE: 1/2" = 1'-0"



2 BATH B102 NORTH
SCALE: 1/2" = 1'-0"

GENERAL STRUCTURAL NOTES

DESIGN LOADS

ALL DESIGN SHALL CONFORM TO THE REQUIREMENTS OF THE 2021 WA STATE BUILDING CODE (2021 INTERNATIONAL BUILDING CODE WITH STATE OF WASHINGTON AMENDMENTS) AS ADOPTED BY THE PROJECT JURISDICTION AS OF PROJECT SUBMITTAL DATE. DESIGN BY ASD UNO.

VERTICAL LOADS: IN ADDITION TO THE STRUCTURE DEAD LOADS (15 PSF ROOF, 12 PSF FLOORS), THE FOLLOWING LIVE LOADS WERE USED FOR DESIGN.

GROUND SNOW	25 PSF
ROOF SNOW LOAD	25 POUNDS PER SQUARE FOOT (PSF)*
FLOOR LIVE LOAD	40 PSF
STAIRS AND EXIT CORRIDORS	100 PSF
DECKS AND BALCONIES	60 PSF LIVE LOAD

ROOF SNOW LOADS: ROOF SNOW LOAD IS CALCULATED IN ACCORDANCE WITH CHAPTER 7 OF ASCE 7 AND PER IBC SECTION 1808. MINIMUM DESIGN ROOF SNOW LOAD IS 25 PSF. PG = 25 PSF, IS = 1.0, PF = 25 PSF, CE = 0.9, CT = 1.0.

FOUNDATION DESIGN: FOUNDATIONS ARE DESIGNED IN ACCORDANCE WITH REQUIREMENTS OF IBC, CHAPTER 18, TABLE 1806.2 MINIMUMS. FOUNDATION SYSTEM COMPOSED OF CONVENTIONAL CONCRETE SPREAD AND STRIP FOOTINGS. ALLOWABLE BEARING = 1,500 PSF, LATERAL BEARING = 100 PSF/FT, COF = 0.25. FPASSIVE = 150 PCF, FACTIVE = 35 PCF, FAT REST = 50 PCF.

WIND LOADS: WIND LOADS ARE CALCULATED ACCORDING TO CHAPTER 28 PART 2 OF ASCE 7. RISK CATEGORY = II, EXPOSURE CATEGORY = B, V = 98 MPH, KZT = 1.0, 16 PSF USD, 10 PSF ASD MIN.

SEISMIC DESIGN CRITERIA:

SITE CLASS D1	
IE = 1.0	SDS = 1.011
R = 6.5 SHEAR WALL	OMEGA = 3

GENERAL NOTES

STRUCTURAL DRAWINGS INDICATE THE BUILDING IN ITS FINAL, CONSTRUCTED CONDITION. TEMPORARY SHORING AND ERECTION METHODS PRIOR TO FINAL COMPLETION ARE THE RESPONSIBILITY OF THE CONTRACTOR.

STRUCTURAL DRAWINGS INDICATE A PORTION OF THE COMPLETED PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR INCORPORATING AND COORDINATING THE REQUIREMENTS OF THE OTHER TRADES.

CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCY BETWEEN THE STRUCTURAL DRAWINGS AND THE EXISTING CONDITIONS FOR RESOLUTION PRIOR TO PROCEEDING.

STRUCTURAL DRAWINGS SHOW TYPICAL CONDITIONS. WHERE NO DETAIL IS SPECIFICALLY INDICATED, CONSTRUCTION SHALL BE IN ACCORDANCE WITH SIMILAR CONSTRUCTION ON THE PROJECT.

SPECIAL INSPECTION: NONE REQUIRED
STRUCTURAL OBSERVATION: NONE REQUIRED

CONCRETE: CONCRETE CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 19 OF THE IBC AND WITH ACI 318. UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL CONCRETE SHALL BE 3,000 PSI, 5 1/2" MIN SACK, 4" MAXIMUM SLUMP, 0.50 W/C RATIO, 3/4" MAXIMUM AGGREGATE SIZE WITH UNIFORM GRADATION. EXTERIOR CONCRETE SHALL BE AIR ENTRAINED, 5% PLUS OR MINUS 1% AIR.

REINFORCING STEEL: ALL REINFORCING STALL SHALL COMPLY WITH ASTM A615, GRADE 60 FOR DEFORMED BARS AND ASTM A185 FOR SMOOTH WELDED WIRE FABRIC (WWF) UNO.

REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315). LAP ALL REINFORCING BARS AS DETAILED ON THE DRAWINGS. MINIMUM LAP LENGTH SHALL BE 40D UNO.

REINFORCING STEEL SHALL HAVE THE FOLLOWING MINIMUM COVER:
BARS EXPOSED TO EARTH OR WEATHER - 3"
MAIN REINFORCING BARS, - 1 1/2"
TIES AND STIRRUPS - 1"

EPOXY ADHESIVE SHALL CONFORM TO ASTM C881 AND SHALL BE A TWO COMPONENT LIQUID EPOXY WITH NON-SAG CONSISTENCY AND A LONG POT LIFE. EPOXY SHALL BE SUITABLE FOR USE ON DRY OR DAMP SURFACES WITH MINIMUM SHEAR STRENGTH 5000 PSI AND MINIMUM TENSILE STRENGTH OF 4000 PSI. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

STRUCTURAL STEEL CONSTRUCTION SHALL BE IN CONFORMANCE WITH AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE CODE OF STANDARD PRACTICE.

STRUCTURAL STEEL SHAPES AND PLATES SHALL COMPLY WITH ASTM A572 GRADE 50 OR ASTM A992 GRADE 50. HOLLOW STRUCTURAL SECTIONS (HSS) SECTIONS SHALL COMPLY WITH ASTM A500, GRADE B.

TYPICAL BOLTS SHALL CONFORM TO ASTM A307. HIGH STRENGTH BOLTS (HSB) SHALL CONFORM TO ASTM A325-N UNO.

WELDING SHALL CONFORM TO AWS CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION. WELDS SHALL BE MADE WITH E70XX ELECTRODES AND SHALL BE 1/4" MINIMUM FILLET WELDS UNO.

TIMBER CONSTRUCTION REQUIREMENTS

SAWN LUMBER SHALL CONFORM TO WEST COAST LUMBER INSPECTION BUREAU OR WESTERN WOOD PRODUCTS ASSOCIATION GRADING RULES. LUMBER SHALL BE 16% MAXIMUM MOISTURE CONTENT AT THE TIME OF INSTALLATION AND SHALL CONFORM TO THE SPECIES AND GRADES NOTED BELOW.

DESCRIPTION	GRADE
2" AND 4" DIM LUMBER JOISTS, RAFTERS, STUDS	HEM FIR #2 OR BETTER
2" AND 4" DIM LUMBER BEAMS AND HEADERS	DOUG FIR #1 OR BETTER
4" AND 6" DIM LUMBER POSTS, BEAMS, GIRDERS	DOUG FIR #1 OR BETTER
PRESSURE TREATED MATERIAL	DOUG FIR #1 OR BETTER

ALL LUMBER IN CONTACT WITH CONCRETE OR CMU SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWWA U1 (SHOP OR PLANT TREATMENT) AND M4 (FIELD TREATMENT) STANDARDS.

FRAMING ACCESSORIES AND STRUCTURAL FASTENERS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE OR APPROVED EQUAL AND OF THE SIZE AND TYPE SHOWN ON THE DRAWINGS. FRAMING ACCESSORIES AND STRUCTURAL FASTENERS WHICH WILL BE IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE G90 GALVANIZED OR STAINLESS STEEL. ALL NAIL HOLES SHALL BE FILLED WITH STRUCTURAL FASTENERS UNO ON THE DRAWINGS AND FASTENERS SHALL BE INSTALLED FOLLOWING ALL MANUFACTURER'S REQUIREMENTS. IF MANUFACTURER PROVIDES MULTIPLE FASTENER POSSIBILITIES, THE FASTENERS WHICH ACHIEVE THE HIGHEST LOAD RATING SHALL BE UTILIZED UNO.

ALL FRAMING NAILS SHALL BE OF THE SIZE AND NUMBER INDICATED ON THE DRAWINGS AND SHALL CONFORM TO ASTM F1667 "STANDARD SPECIFICATION OF DRIVEN FASTENERS: NAILS, SPIKES AND STAPLES" AND NER-272 "POWER DRIVEN STAPLES AND NAILS FOR USE IN ALL TYPES OF BUILDING CONSTRUCTION." NAILS SHALL BE IDENTIFIED BY LABELS ATTACHED TO THEIR CONTAINERS THAT SHOW THE MANUFACTURER'S NAME AND NES REPORT NUMBER, NAIL SHANK DIAMETER AND LENGTH. NAILING NOT SHOWN SHALL BE AS INDICATED IN IRC TABLE R602.3(1) AND/OR IBC TABLE 2304.10.1 OR NER-272. THE FOLLOWING NAIL SIZES SHALL BE USED:

NAIL TYPE	SHANK DIAMETER	MINIMUM PENETRATION
6D	0.1113"	1.25"
8D	0.131"	1.50"
10D	0.148"	1.625"
12D	0.148	1.625
16D	0.148	1.625"

BOLTS AND LAG SCREWS SHALL CONFORM TO ANSI/ASTM STANDARD B18.2.1-1981. ALL BOLTS AND LAG SCREWS SHALL HAVE CUT THREADS.

CUTTING AND NOTCHING OF JOISTS AND STUDS SHALL CONFORM TO IBC SECTIONS 2320.8.2, 2308.9.1 AND 2308.10.4.

WOOD STRUCTURAL PANELS
WOOD STRUCTURAL PANELS SHALL CONFORM TO THE REQUIREMENTS OF "US PRODUCT STANDARD PS-1 FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD", "US PRODUCT STANDARD PS-2 PERFORMANCE STANDARDS FOR WOOD-BASED STRUCTURAL USE PANELS", OR "APA PER-108 PERFORMANCE STANDARDS" UNO. UNO, PANELS SHALL BE APA RATED SHEATHING, EXPOSURE 1, OF THE THICKNESS AND SPAN RATING SHOWN ON THE DRAWINGS. APA 24/0TYP ROOF AND WALLS UNO, APA 24/0 TYP FLOOR UNO.

WOOD STRUCTURAL PANEL INSTALLATION SHALL BE IN CONFORMANCE WITH APA RECOMMENDATIONS. ALLOW 1/8" SPACING AT PANEL ENDS AND EDGES UNLESS OTHERWISE RECOMMENDED BY THE MANUFACTURER.

ALL ROOF AND FLOOR SHEATHING SHALL BE INSTALLED WITH FACE GRAIN PERPENDICULAR TO SUPPORTS UNO ON DRAWINGS. ROOF SHEATHING SHALL BE BLOCKED, TONGUE AND GROOVE OR SHALL HAVE PLY-CLIPS. FLOOR SHEATHING SHALL BE TONGUE AND GROOVE AND SHALL BE GLUED AND NAILED UNO. T&G JOINTS SHALL ALSO BE GLUED.

SHEAR WALL SHEATHING SHALL BE INSTALLED EITHER HORIZONTALLY OR VERTICALLY AND ALL PANELS EDGES SHALL BE BLOCKED WITH 2X FRAMING.

MINIMUM NAILING FOR ALL STRUCTURAL SHEATHING SHALL BE 10D AT 6" OC AT PANEL EDGES AND 10D AT 12" OC IN THE FIELD. NAILS SHALL BE "COMMON" EXCEPT ROOF SHEATHING SHALL BE NAILED WITH RING SHANK NAILS.

GLUED LAMINATED MEMBERS
GLUED LAMINATED MEMBER (GLB) SHALL BE FABRICATED IN CONFORMANCE WITH ANSI STANDARD A190.1, AMERICAN NATIONAL STANDARD FOR GLUED LAMINATED TIMBER OR OTHER CODE APPROVED DESIGN, MANUFACTURING AND/OR QUALITY ASSURANCE PROCEDURES. EACH MEMBER SHALL BEAR AND AITC OR APA-EWS IDENTIFICATION MARK. ENDS SHALL BE SEALED IMMEDIATELY IN THE SHOP OR IMMEDIATELY UPON FIELD TRIMMING. BEAMS SHALL BE WESTERN SPECIES INDUSTRIAL (HIDDEN) OR ARCHITECTURAL (EXPOSED) APPEARANCE CLASSIFICATION AND SHALL BE 24F-V4 FOR SIMPLE SPANS AND 24F-V8 FOR MULTIPLE SPAN OR CONTINUOUS MEMBERS. FB SHALL BE 2,400 PSI, E SHALL BE 1,800,000 PSI AND FV SHALL BE 300 PSI.

GLB HANGERS SHALL BE SIMPSON GLT UNO. ADHESIVE SHALL BE WET USE EXTERIOR WATERPROOF GLUE. FLIED NOTCHING OR BORING OF GLB IS NOT ALLOWED UNLESS APPROVED IN WRITING BY STRUCTURAL ENGINEER OF RECORD (SER).

ENGINEERED COMPOSITE LUMBER
ENGINEERED COMPOSITE LUMBER SHALL BE AS MANUFACTURED BY WEYERHAUSER TRUS JOIST ENGINEERED WOOD PRODUCTS OR APPROVED EQUAL. TIMBERSTRAND LSL LUMBER SHALL BE 1.55E FOR BEAMS AND HEADERS, AND 1.3E FOR POSTS AND COLUMNS. MICROLAM LVL LUMBER SHALL BE 2.0E. PARALLAM PSL LUMBER SHALL BE 2.2E FOR BEAMS AND HEADERS, 1.8E FOR POSTS AND COLUMNS.

CONCRETE MASONRY
CONCRETE MASONRY UNITS (CMU) SHALL COMPLY WITH ASTM C90. LINEAL SHRINKAGE FOR UNITS SHALL NOT EXCEED 0.065%. ASSEMBLIES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1500 PSI. ALL CMU CONSTRUCTION SHALL BE REINFORCED AS SHOWN ON PLANS OR AS NOTED BELOW.

MORTAR
ALL MORTAR SHALL BE TYPE S WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 1800 PSI AND SHALL CONFORM TO IBC CHAPTER 21 REQUIREMENTS.

MASONRY GROUT
GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI AND SHALL CONFORM TO IBC CHAPTER 21 REQUIREMENTS. GROUT SHALL CONSIST OF A MIXTURE OF CEMENTITIOUS MATERIALS, AGGREGATE AND WATER. WATER SHALL BE SUFFICIENT TO ALLOW THE GROUT TO FLOW WITHOUT SEGREGATION. ALL CUM SHALL BE FULLY GROUTED.

MASONRY REINFORCING STEEL
REINFORCING FOR CMU SHALL CONFORM TO IBC CHAPTER 21. DEFORMED BARS SHALL BE GRADE 60 AND SHALL BE FIRMLY TIED INTO POSITION PRIOR TO PLACEMENT OF GROUT IN ACCORDANCE WITH ACI 530. MINIMUM CMU WALL REINFORCEMENT FOR 8" CMU SHALL BE #5 BARS AT 24" OC EACH WAY. MINIMUM CMU WALL REINFORCEMENT FOR 12" CMU SHALL BE #5 EACH FACE, EACH WAY AT 32" OC. ALL MASONRY WALLS SHALL HAVE (2) #5 CONTINUOUS HORIZONTAL ALL ROOF LINES, FLOOR LINES AND TOP OF WALLS. IN ADDITION, PROVIDE (2) #5 TRIM BARS EACH SIDE, TOP AND BOTTOM OF ALL OPENINGS. VERTICAL TRIM BARS SHALL EXTEND FULL HEIGHT OF THE WALL. HORIZONTAL TRIM BARS SHALL EXTEND 24" MINIMUM BEYOND OPENING. AT CORNERS AND INTERSECTIONS, PROVIDE CORNER BARS THAT LAP 24" MINIMUM EACH WAY WITH TYPICAL HORIZONTAL REINFORCEMENT. IN ADDITION, PROVIDE ADDITIONAL (2) #5 VERTICAL TRIM BARS. PROVIDE FOOTING DOWELS TO MATCH ALL VERTICAL WALL REINFORCEMENT. FOOTING DOWELS SHALL BE HOOKED INTO FOUNDATION WITH A STANDARD 90 DEGREE HOOK 3" CLEAR OF BOTTOM AND SHALL LAP 40 DIAMETERS MINIMUM WITH WALL REINFORCEMENT.

CONCRETE PENETRATIONS
WHERE PIPES OR CONDUITS PENETRATE CONCRETE WALLS OR FOOTINGS, PROVIDE OVERSIZE SLEEVE. ALL PENETRATIONS SHALL BE WITHIN THE MIDDLE 1/3 OF FOOTING OR WALL DEPTH. DO NOT CORE OPENINGS WITHOUT WRITTEN PERMISSION FROM ENGINEER. WHERE PIPES OR CONDUITS OCCUR WITHIN 12" OF BOTTOM OF FOOTING, THICKEN FOOTING TO EXTEND 6" MINIMUM BELOW TO PROVIDE 3" MINIMUM COVER BELOW PIPE OR CONDUIT
WHERE PIPES AND FOOTINGS ARE PARALLEL TO FOOTINGS, LOCATE FOOTINGS TO FALL ABOVE 2H : 1V LINE EXTENDING FROM BOTTOM OF FOOTING

ROOF TRUSS NOTES AND DESIGN CRITERIA

- MANUFACTURED WOOD ROOF TRUSSES SHALL BE DESIGNED BY THE TRUSS MANUFACTURER AND DRAWINGS AND CALCULATIONS SHALL BE STAMPED AND SIGNED BY A WASHINGTON LICENSED CIVIL ENGINEER.
- TRUSSES SHALL BE DESIGNED FOR CONFORMANCE WITH THE 2015 INTERNATIONAL BUILDING CODE AND THE FOLLOWING MINIMUM DESIGN LOADS
DEAD LOAD = 13 PSF + SELF WEIGHT
ROOF LIVE LOAD = 20 PSF
ROOF SNOW LOAD = 25 PSF
WIND UPLIFT = 7 PSF NET UPLIFT FIELD
10 PSF NET UPLIFT WITHIN 6 FEET OF EDGES OR DISCONTINUITIES.
- PROVIDE VENTED BLOCKING AS REQUIRED AT TRUSS OR RAFTER BEARINGS
- TRUSSES SHALL NOT BE FIELD ALTERED WITHOUT ENGINEER'S AND TRUSS MANUFACTURER'S WRITTEN APPROVAL.
- TRUSS LAYOUT, SPECIFICATIONS, DESIGN DETAILS AND DRAWINGS SHALL BE ON SITE FOR INSPECTION DURING CONSTRUCTION
- TRUSSES SHALL BE INSTALLED AND BRACED PER MANUFACTURER'S REQUIREMENTS.
- EACH TRUSS SHALL CARRY MANUFACTURER'S STAMP.
- IF ENGINEERED TRUSS LAYOUT PROVIDED BY MANUFACTURER VARIES FROM TRUSS LAYOUT SHOWN ON THESE DOCUMENTS, MANUFACTURER'S LAYOUT SHALL GOVERN PROVIDED THAT EOR REVIEWS AND APPROVES REVISED LAYOUT.
- IN ADDITION TO LOADS INDICATED ABOVE, ALL TRUSSES SHALL BE DESIGNED TO SUPPORT LIVE LOADS AS SPECIFIED IN IRC TABLE R301.5. IN PARTICULAR, BOTTOM CHORDS WITH CLEAR HEIGHT LESS THAN 42" VERTICAL CLEARANCE SHALL BE DESIGNED FOR 10 PSF LIVE LOAD AND BOTTOM CHORDS WITH 42" OR MORE VERTICAL CLEARANCE SHALL BE DESIGNED FOR 20 PSF LIVE LOAD.
- IN ADDITION TO ALL OTHER TRUSS DESIGN REQUIREMENTS, TRUSS DESIGN SHALL CONFORM TO IRC SECTIONS 502.11.1 AND 802.10.2, ESPECIALLY INDICATING THE TRUSS DESIGN AND MANUFACTURER SHALL BE PER ANSIT/PI 1.
- TRUSS TEMPORARY AND PERMANENT BRACING SHALL BE PER IRC SECTIONS 2002.11.2 AND 802.10.3 AS WELL AS THE TRUSS PLATE INSTITUTES BUILDING COMPONENT SAFETY INFORMATION.

ABBREVIATIONS

AB	ANCHOR BOLT	LB	POUND
ACI	AMERICAN CONCRETE INSTITUTE	LBS	POUNDS
ADD'L	ADDITIONAL	LL	LIVE LOAD
AESS	ARCHITECTURALLY EXPOSED	LLH	LONG LEG HORIZONTAL
STRUCTURAL	STEEL	LLV	LONG LEG VERTICAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LOC	LOCATION
ALT	ALTERNATE OR ALTERNATING	LONG	LONGITUDE OR LONGITUDINAL
ALUM	ALUMINUM	LVF	LOW VELOCITY FASTENER
ARCH'L	ARCHITECTURAL	MAX	MAXIMUM
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	MECH	MECHANICAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MFR	MANUFACTURER
AWS	AMERICAN WELDING SOCIETY	MIN	MINIMUM
BLDG	BUILDING	MISC	MISCELLANEOUS
BOC	BOTTOM OF CONCRETE	NF	NEAR FACE
BOF	BOTTOM OF FRAMING	NIC	NOT IN CONTRACT
BOP	BOTTOM OF PLYWOOD / SHEATHING	NIP	NOT A PART
BO	BOTTOM	NOM	NOMINAL
BO	BLOCK OUT	NO OR #	NUMBER
CG	CENTER OF GRAVITY	NTS	NOT TO SCALE
CIP	CAST IN PLACE	OC	ON CENTER
C.J.	CONTROL JOINT	OD	OUTSIDE DIAMETER
CJ	CONSTRUCTION JOINT	OF	OUTSIDE FACE
CL	CENTERLINE	OPNG	OPENING
CLR	CLEAR	OPP	OPPOSITE
CMU	CONCRETE MASONRY UNIT	OWL	OPEN WEB JOIST
CONC	CONCRETE	PART	PARTITION
CONN	CONNECTION	PC	PRECAST
CONT	CONTINUOUS	PCF	POUNDS PER CUBIC FOOT
CP	COMPLETE PENETRATION	PERIM	PERIMETER
DBL	DOUBLE	PERP	PERPENDICULAR
DET	DETAIL	PL	PLATE
DIA	DIAMETER	PSF	POUNDS PER SQUARE FOOT
DWL	DEAD LOAD	PSI	POUNDS PER SQUARE INCH
DWG	DRAWING	P.T.	POST-TENSIONED
EA	EACH	PT	PRESSURE TREATED
EE	EACH END	RET	RETURN
EF	EACH FACE	REIN	REINFORCEMENT
EL	ELEVATION	REQ'D	REQUIRED
EMBED	EMBEDMENT	SCHED	SCHEDULE
EQ	EQUAL	SC	SLIP CRITICAL
EX OR (E)	EXISTING	SEC	SECTION
EXP	EXPANSION	SHT	SHEET
EXT	EXTERIOR	SIM	SIMILAR
EW	EACH WAY	SOG	SLAB ON GRADE
FDN	FOUNDATION	SPEC	SPECIFICATION
FF	FINISHED FLOOR	SQ	SQUARE
FIG	FIGURE	STD	STANDARD
FLR	FLOOR	STRUCT	STRUCTURAL
FP	FULL PENETRATION	SYM	SYMMETRICAL
FT	FOOT	THRU	THROUGH
FTG	FOOTING	TOF	TOP OF
GAUGE	GAUGE	TOD	TOP OF DECK
GALV	GALVANIZED	TOP	TOP OF FRAMING
GB	GRADE BEAM	TOP	TOP OF PLYWOOD
GLU-LAM	GLU-LAM BEAM	TOS	TOP OF STEEL
HDR	HEADER	T&G	TONGUE AND GROOVE
HOR	HORIZONTAL	TJ	TRUS JOIST
HSB	HIGH STRENGTH BOLT	TYP	TYPICAL
HSS	HOLLOW STRUCTURAL STEEL	UNO	UNLESS NOTED OTHERWISE
IBC	INTERN'L BUILDING CODE (LATEST EDITION UNO)	VERT	VERTICAL
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS	W/	WITH
ID	INSIDE DIAMETER	WF	WIDE FLANGE
IF	INSIDE FACE	W/O	WITHOUT
IN	INCH	WP	WORK POINT
INT	INTERIOR	WWF	WELDED WIRE FABRIC
JOINT	JOINT		
KIPS	KILO (1000) POUNDS		
KSF	KIPS PER SQUARE FOOT		
KSI	KIPS PER SQUARE INCH		

MARK	SHEATHING	EDGE NAILING	SHEAR TRANS NAILING	ANCHOR BOLTS
	1/2" STRUCT 1	8D @ 6" OC	16D AT 6" OC OR A35 AT 16" OC	8" @ 32" OC
	1/2" STRUCT 1	8D @ 4" OC	16D AT 4" OC OR A35 AT 12" OC	8" @ 24" OC
	0.5" STRUCT 1	8D @ 3" OC	16D @ 3" OC OR A35 @ 8" OC	7" @ 32" OC
	1/2" STRUCT 1	8D @ 2" OC	(2) ROWS 16D @ 4" OC OR A35 @ 6" OC	7" @ 24" OC
	0.5" STRUCT 1 EACH SIDE	8D @ 3" OC STAGGERED	(2) ROWS 16D @ 4" OC OR A35 @ 4" OC	1" AT 24" OC
	0.5" STRUCT 1 EA SIDE	8D @ 2" OC STAGGERED	(2) ROWS 16D AT 2" OC OR A35 @ 4" OC	1" AT 16" OC

NOTES:

- PANELS MAY BE INSTALLED HORIZONTALLY OR VERTICALLY. MINIMUM PANEL DIMENSION SHALL BE 32". ALL PANEL EDGES SHALL BE BLOCKED.
- ALL SHEAR PANELS REQUIRE NAILS SPACED AT 12" MAX OC AT ALL INTERMEDIATE SUPPORTS.
- SHEAR WALL MK1 & MK2 REQUIRE 2X MIN FRAMING AT 24" MAX OC AND PT 2X SILL PLATES.
- SHEAR WALL MK3 & MK4 REQUIRE 2X MIN FRAMING IN FIELD AT 24" MAX OC WITH 3X MEMBERS AT ABUTTING PANEL JOINTS AND PT 2X SILL PLATES.
- SHEAR WALL MK5 & MK6 SHALL HAVE PANEL JOINTS STAGGERED ON OPPOSITE SIDES OF THE WALL AND 3X MIN FRAMING AT ALL PANEL JOINTS AND PT 3X SILL PLATES.
- ANCHOR BOLTS SHALL BE ASTM A307 WITH 8" MIN EMBEDMENT. ALL ANCHOR BOLTS SHALL HAVE 1/4" X 3" X3" PLATE WASHERS AND SHALL BE CENTERED 2" MAX FROM SHEATHED SIDE OF WALL.
- ALL NAILS TO BE HOT DIP GALVANIZED 8D COMMON OR 10D COMMON AS NOTED.
- PROVIDE DBL KING STUD CONNECTED WITH 16D @ 4" OC OR 4X AT EA END EA SHEAR WALL UNO

1 SHEAR WALL SCHEDULE

S1.0 SCALE: NOT APPLICABLE

NOTES:

- INDICATES PLYWOOD SHEAR WALL. SEE 1/S1.0 FOR INFORMATION. REQUIREMENTS FOR SHEAR WALLS SHOWN APPLY TO WALLS ABOVE LEVEL INDICATED. FOR REQUIREMENTS BELOW LEVEL INDICATED, SEE PLAN BELOW. SHEAR WALL REQTS APPLY FULL LENGTH OF WALLS. EXT WALLS TO MEET MARK 3 REQUIREMENTS IN ALL LOCATIONS UNLESS HEAVIER SHEAR WALL REQUIREMENTS ARE INDICATED.
- FTG4 INDICATES PAD FOOTING. SEE 4/SS.1 FOR DETAILS
- INDICATES 4X4 POST TYP UNO. POSTS SHALL HAVE BC BASES AND AC OR LCE CAPS AS APPROPRIATE UNO. POSTS IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
- INDICATES 4X6 POST TYP UNO. POSTS SHALL HAVE BC BASES AND AC OR LCE CAPS AS APPROPRIATE UNO. POSTS IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
- INDICATES 6X6 DFF#1 POST TYP UNO. POSTS SHALL HAVE BC BASES AND AC OR LCE CAPS AS APPROPRIATE UNO. POSTS IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
- SEE 5/SS.1 FOR WALL FRAMING DETAILS, TYP HEADER SIZES AND OTHER STANDARD FRAMING REQUIREMENTS

2 TYPICAL FRAMING PLAN NOTES

S1.0 SCALE: NOT APPLICABLE

SPECIAL INSPECTION REQUIREMENTS

SPECIAL INSPECTION ITEM	CONTINUOUS	PERIODIC	NOT APPLICABLE	COMMENTS
SOILS				
GRADING EXCAVATION AND BACKFILL			X	BY SOILS ENGINEER
FINAL GRADING			X	
MICRO-PILE INSTALLATION			X	
AUGER PILE INSTALLATION			X	
CONCRETE				
MIX DESIGNS				SUBMIT TO STRUCTURAL ENGINEER
REINFORCEMENT PLACEMENT			X	
REINFORCEMENT WELDING			X	
REINFORCEMENT COUPLERS			X	
ANCHOR BOLTS AND INSERTS			X	
MATERIAL VERIFICATION			X	
PREPARATION OF TEST SPECIMENS			X	
CONCRETE PLACEMENT			X	
EPOXY ANCHOR INSTALLATION		X		
EXPANSION ANCHOR INSTALLATION		X		
STRUCTURAL STEEL				
HIGH STRENGTH BOLTING			X	
FIELD WELDING			X	
WELDING OF STUDS AND ANCHORS			X	
METAL DECK WELDING			X	
MASONRY				PER IBC SECTION 1704, LEVEL 1
REINFORCEMENT PLACEMENT			X	
GROUTING			X	
PREPARATION OF TEST SPECIMENS			X	
ANCHOR BOLT AND EMBED PLACEMENT			X	
TIMBER				
DIAPHRAGM NAILING			X	
SHEAR WALL NAILING			X	
MATERIAL AND GRADE VERIFICATION			X	

NOTES:

- SPECIAL INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE (IBC) CHAPTER 17 REQUIREMENTS.
- ITEMS MARKED WITH AND "X" SHALL BE INSPECTED BY A CERTIFIED INSPECTOR IN ACCORDANCE WITH IBC CHAPTER 17 REQUIREMENTS.
- CONTINUOUS



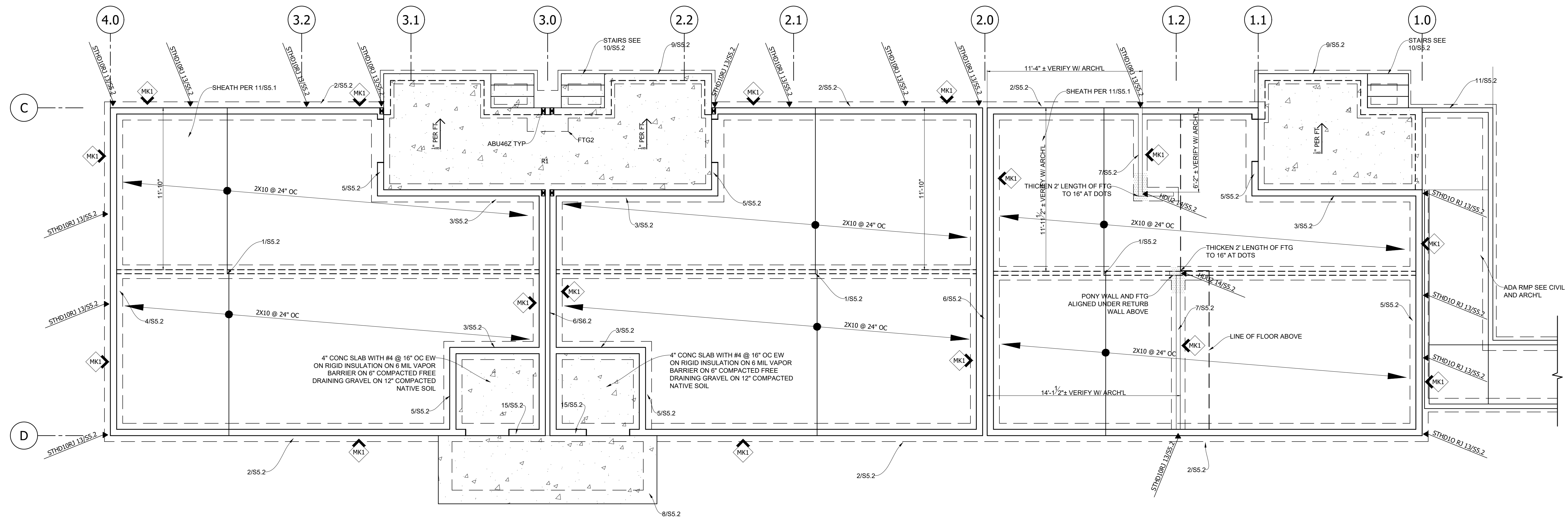
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Development & Permitting Services	Development & Permitting Services
ISSUED PERMIT	ISSUED PERMIT
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ARCHITECT:
 WC STUDIO PLLC
 1522 6TH AVE #1
 TACOMA, WA 98405

PROJECT NAME / ADDRESS:
 7TH AVE TOWNHOMES
 1200 7TH AVE SE
 PUYALLUP, WA 98371

Project Number:	24146
Date:	JAN 2025
Scale:	AS NOTED
Sheet:	S2.1



BLDG B - FOUNDATION & FIRST FLOOR FRAMING
 SEE 2/S1.0 FOR TYP FRAMING NOTES

0 1' 2' 3' 4'
 SCALE 1/4" = 1'



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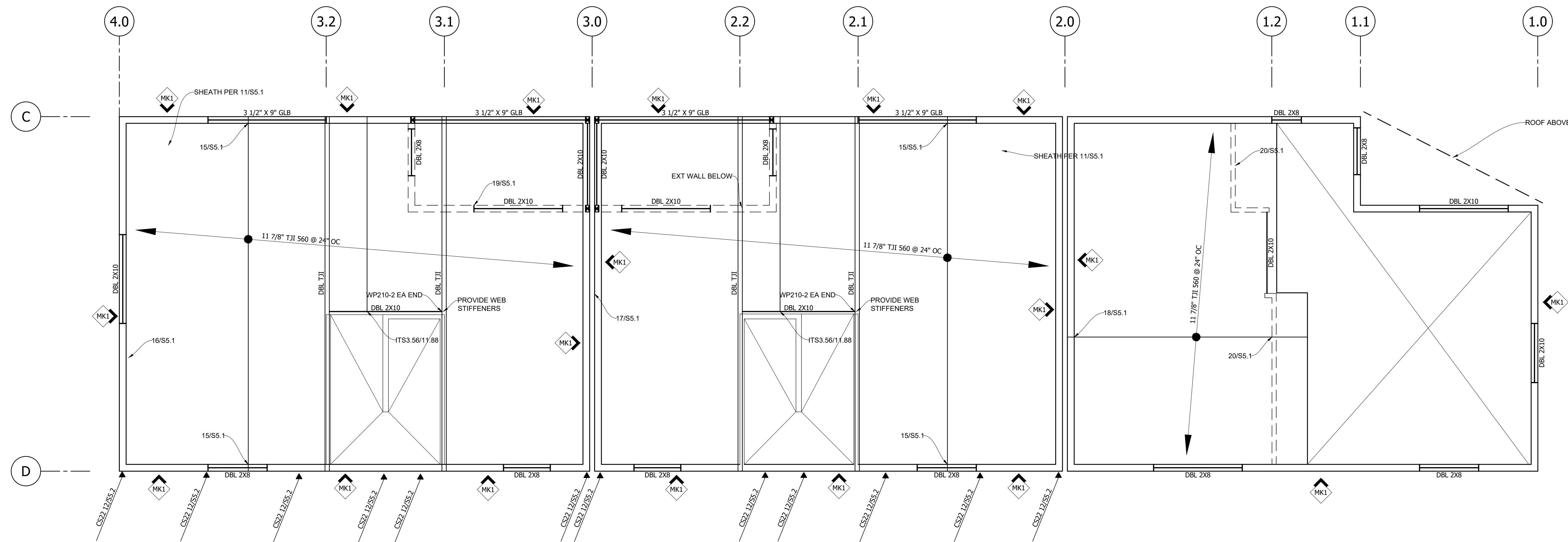
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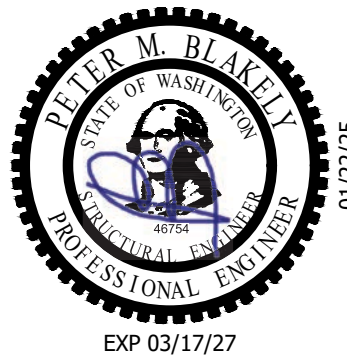
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S2.2



BLDG B - SECOND FLOOR FRAMING
 SEE 2/S1.0 FOR TYP FRAMING NOTES
 SCALE 1/4" = 1'



City of Puyallup	
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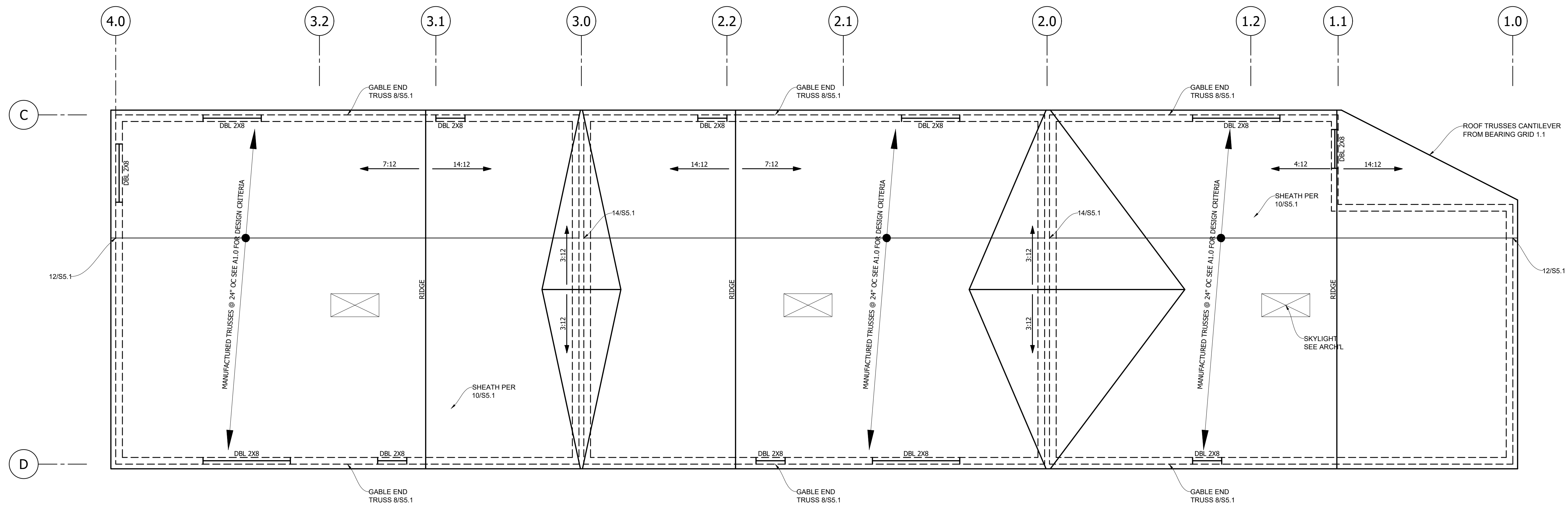
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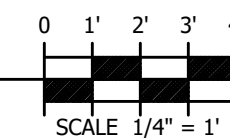
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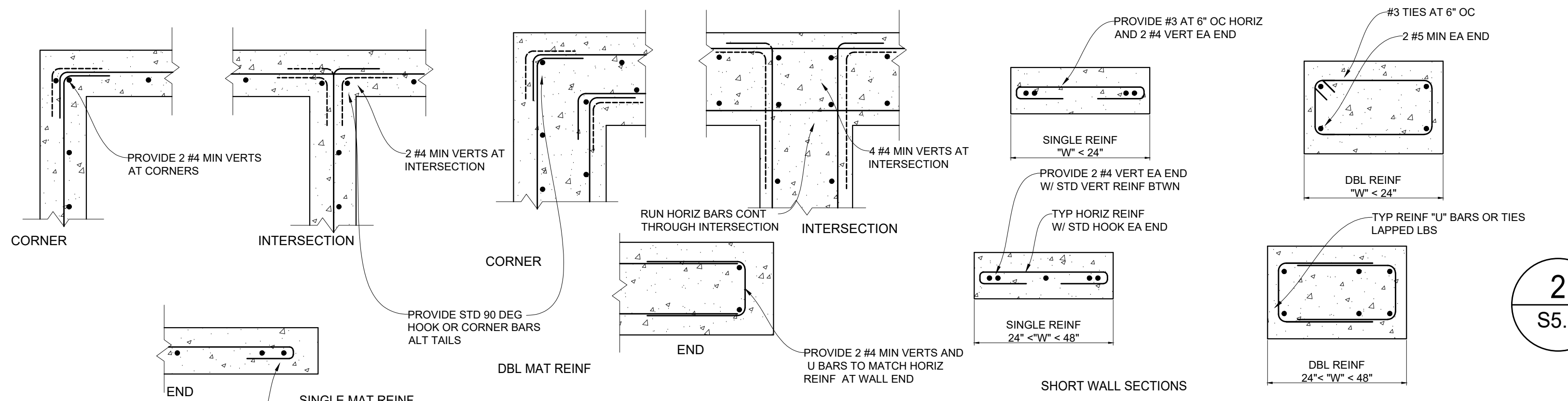
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S2.3



BLDG B - ROOF FRAMING

SEE 2/S1.0 FOR TYP FRAMING NOTES





BAR SIZE	DBL	LD	LSB	LST	LDH
#3	17"	24"	22"	28"	18"
#4	21"	29"	27"	34"	22"
#5	26"	36"	34"	42"	28"
#6	32"	43"	41"	50"	34"
#7	40"	53"	51"	62"	42"
#8	50"	67"	64"	78"	52"
#9	62"	81"	78"	96"	64"

UNLESS OTHERWISE NOTED, ALL CONCRETE WALLS SHALL BE REINFORCED PER THE FOLLOWING TABLE

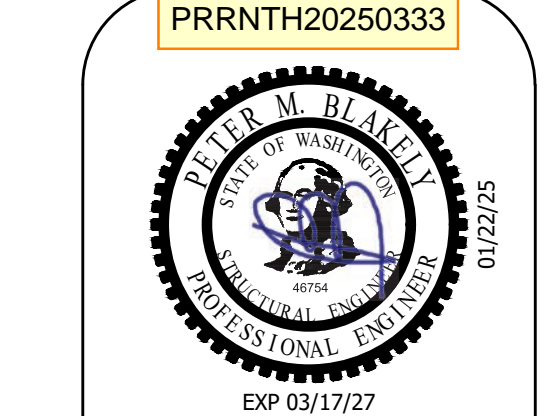
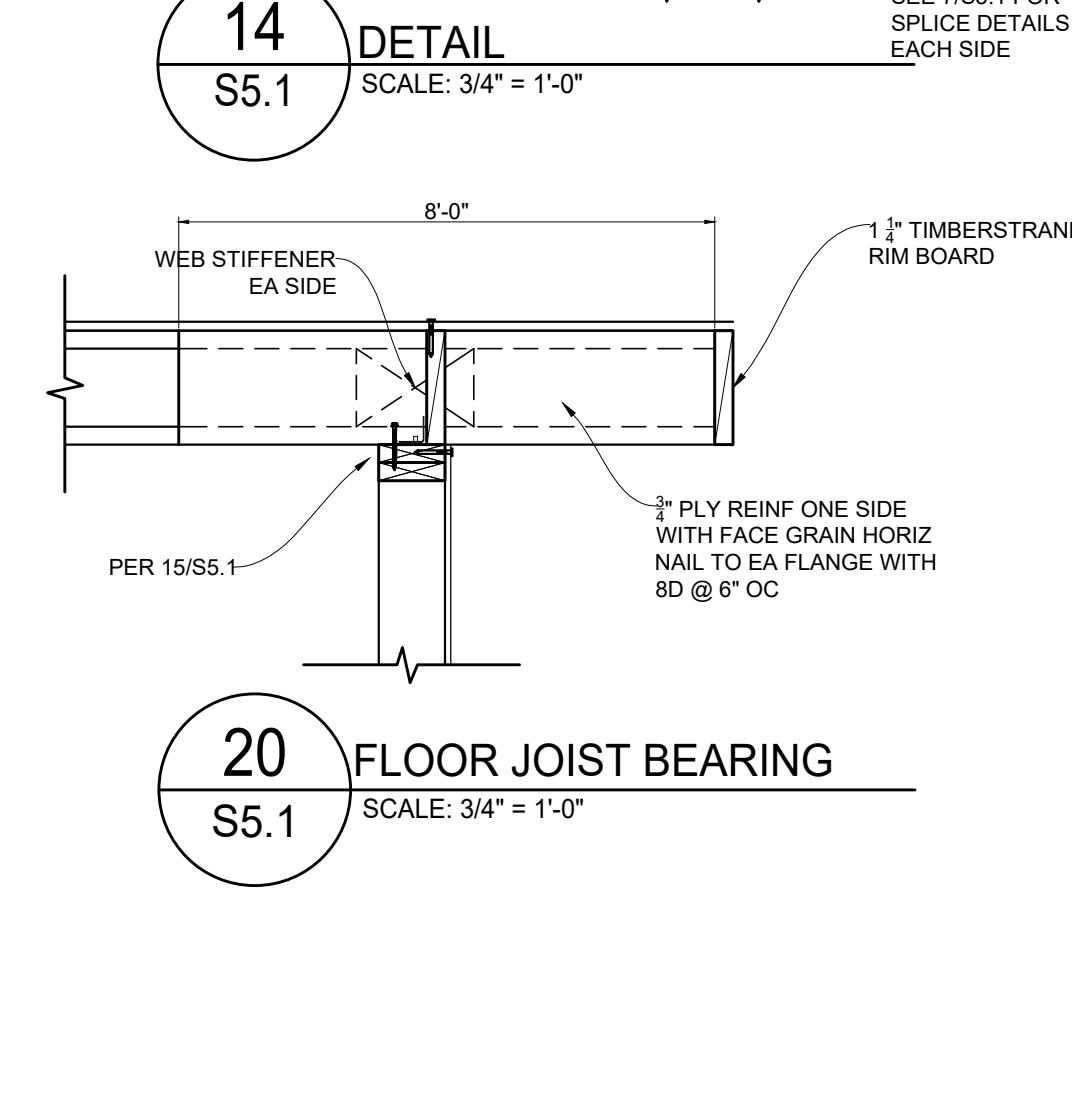
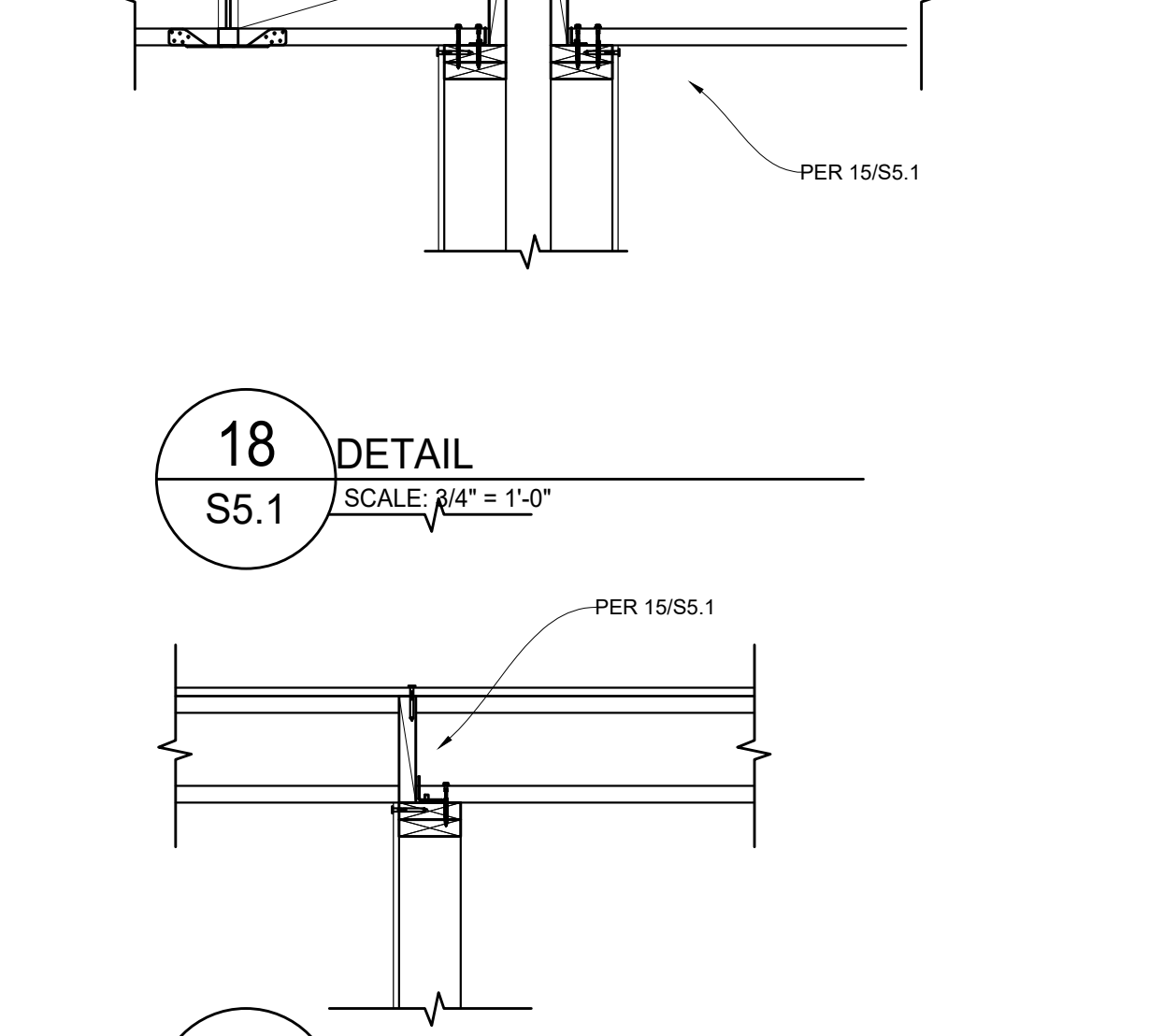
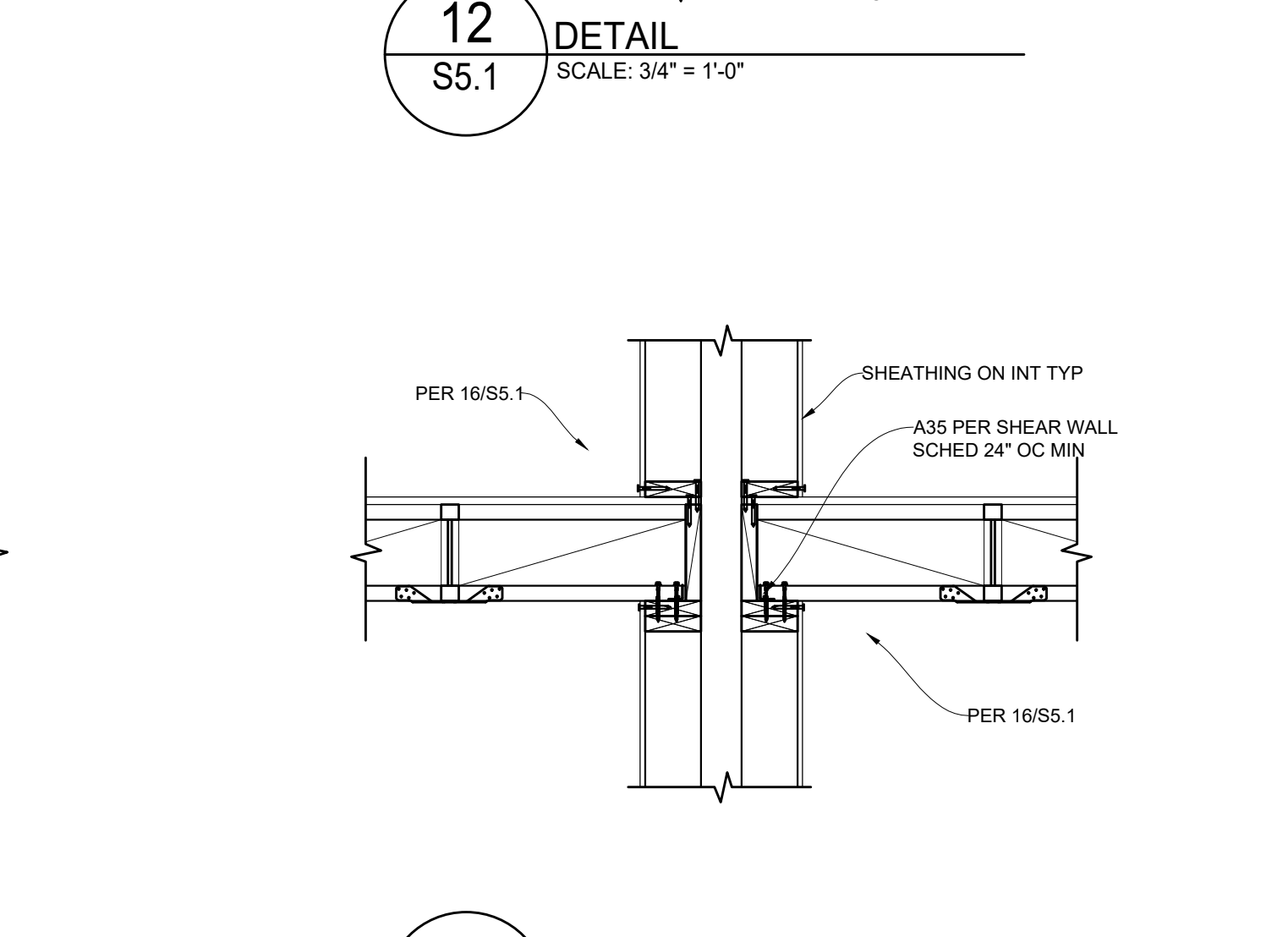
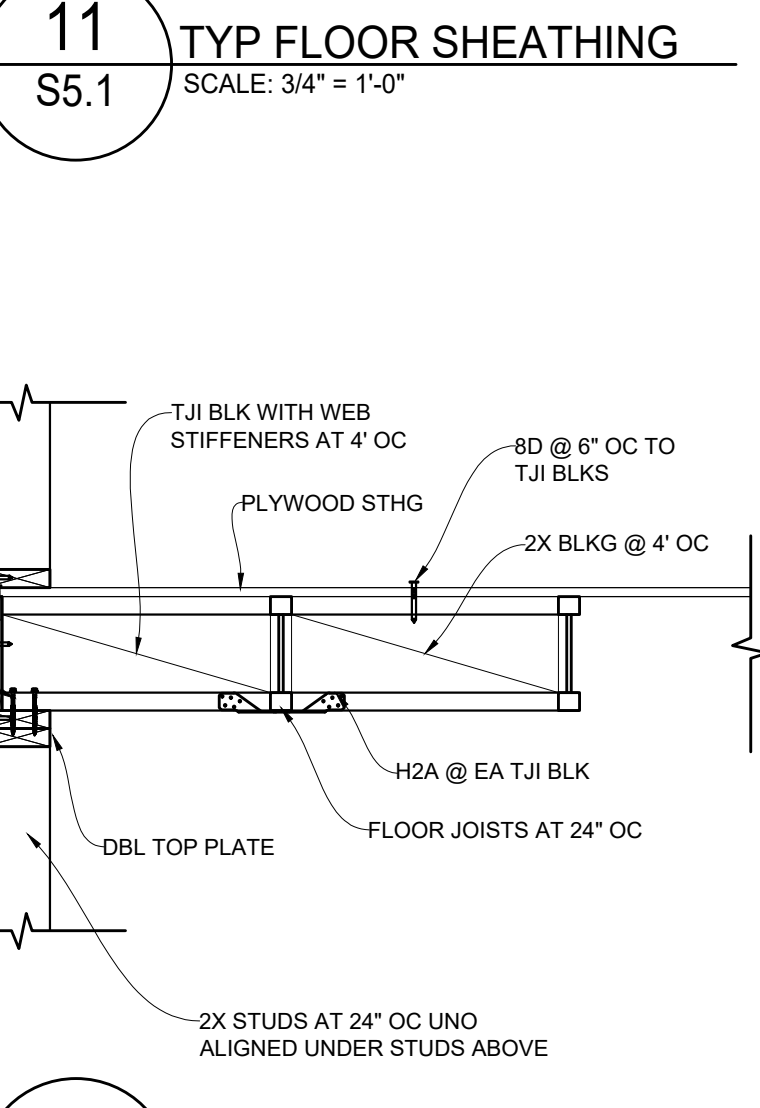
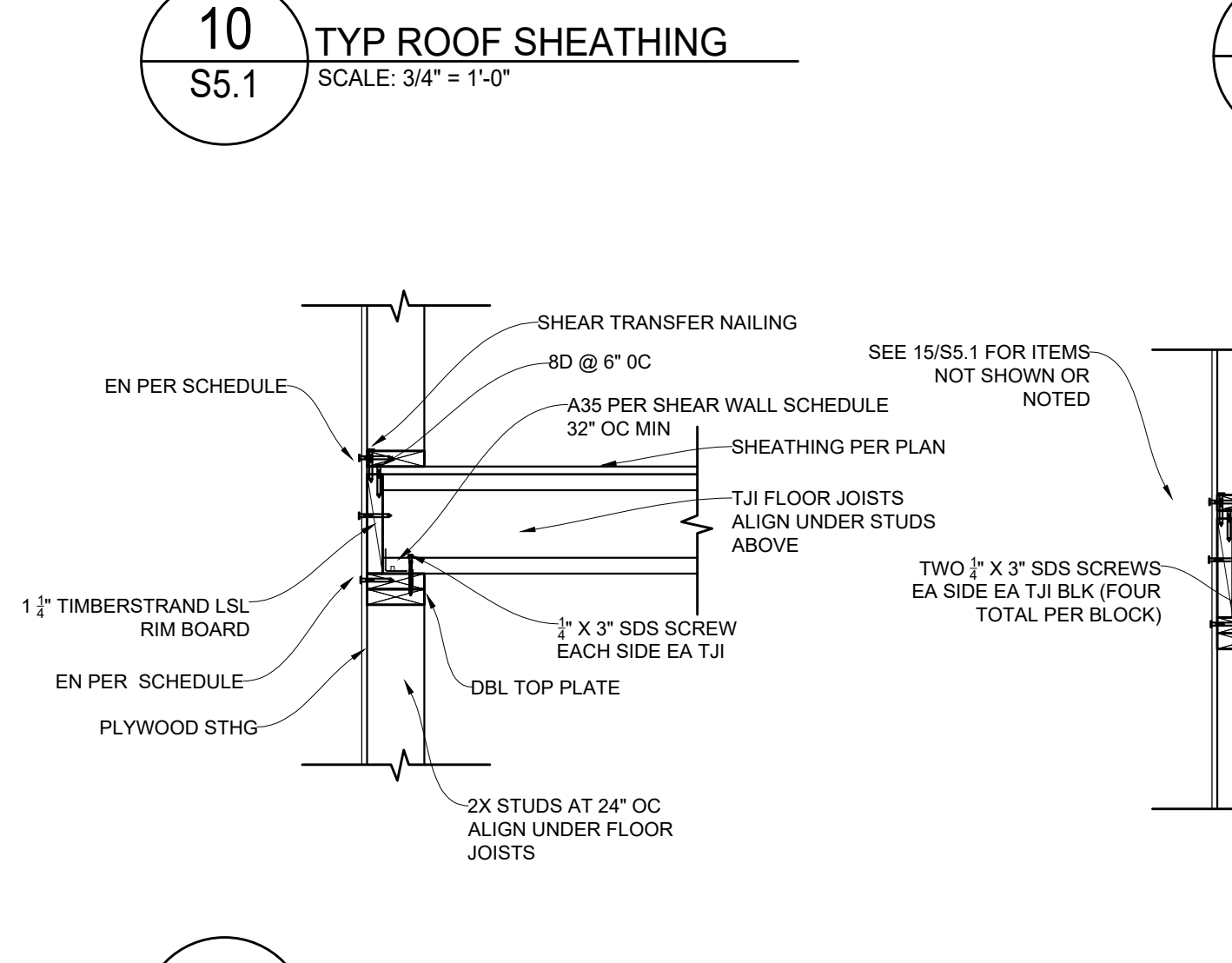
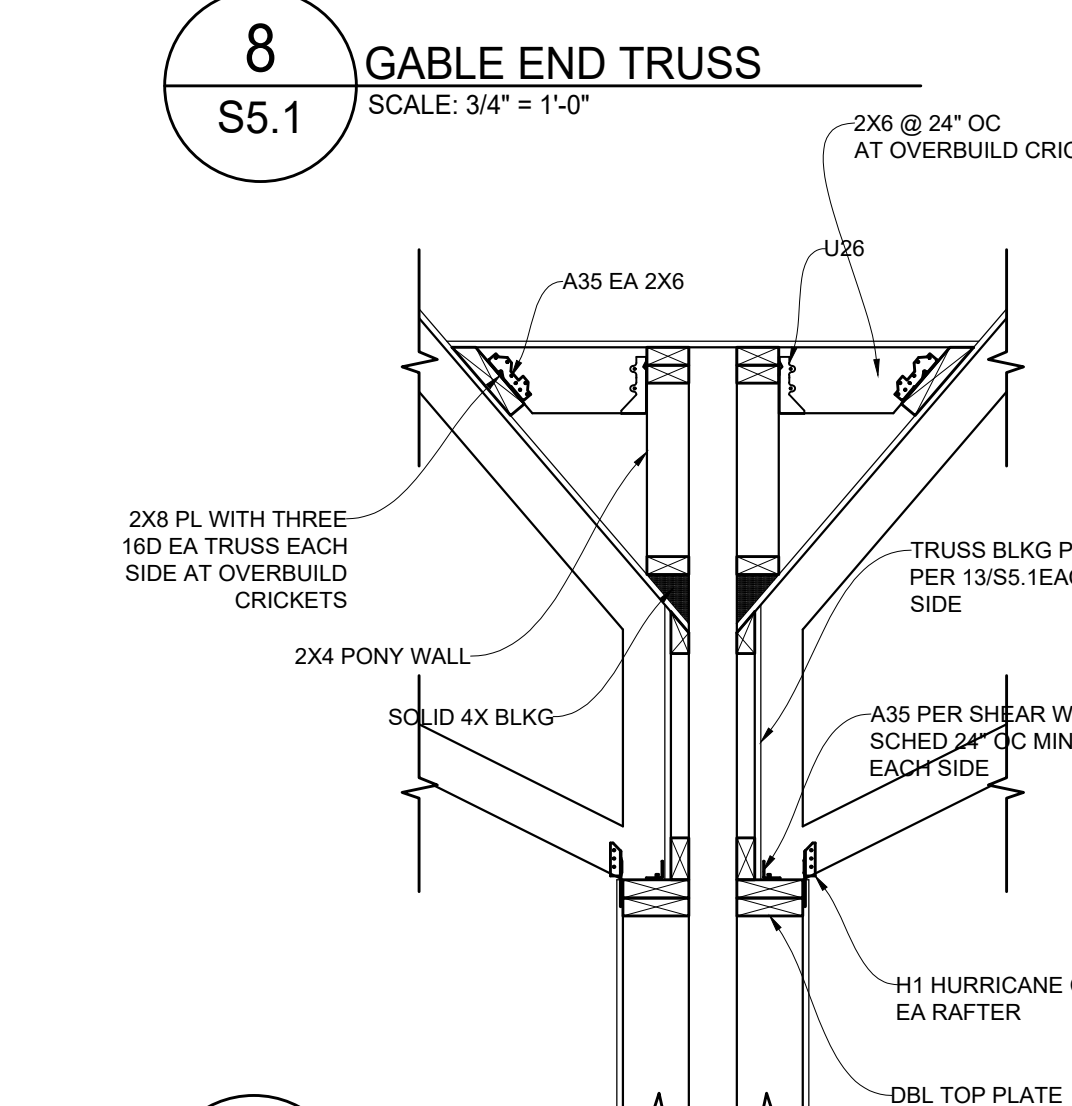
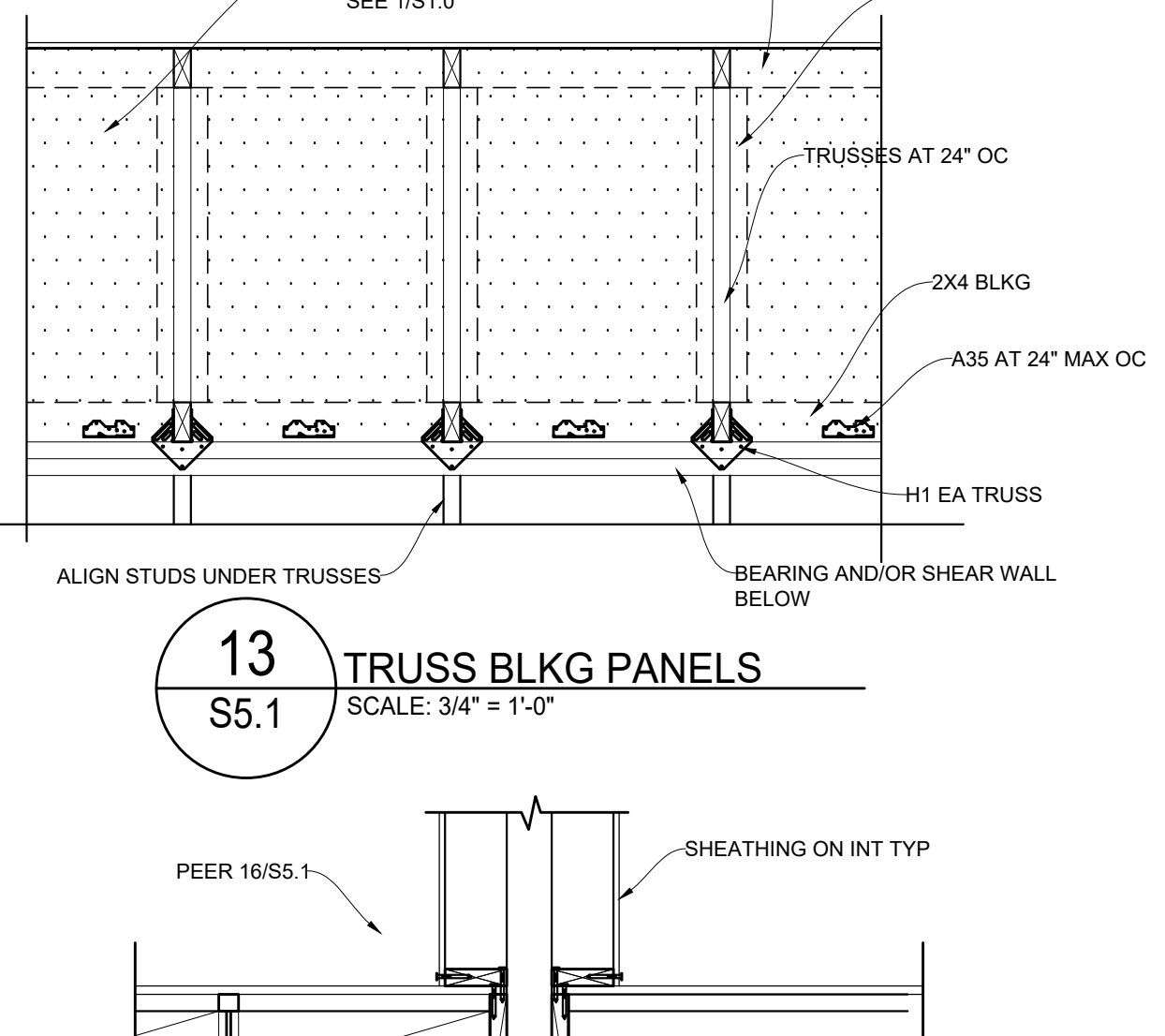
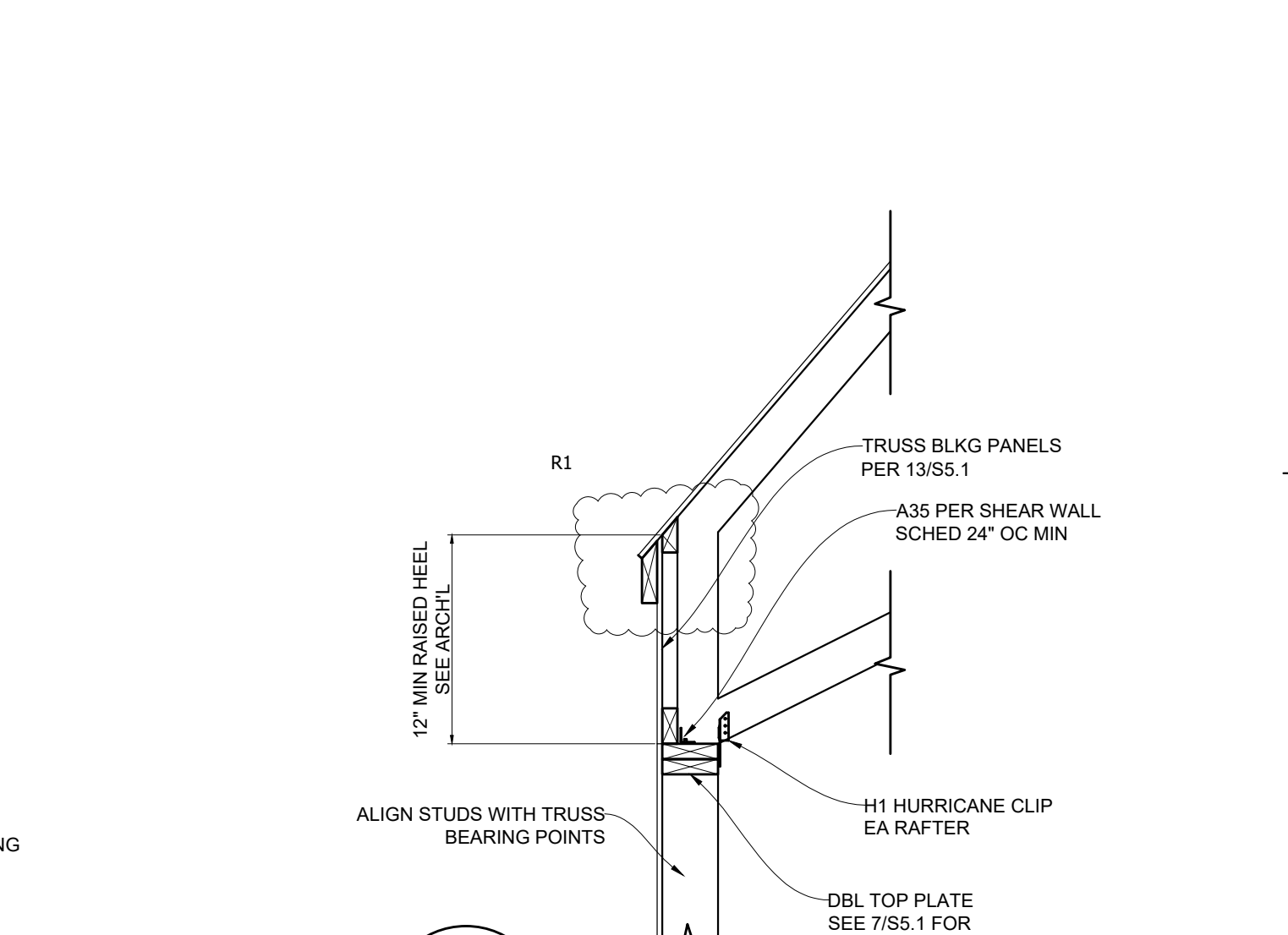
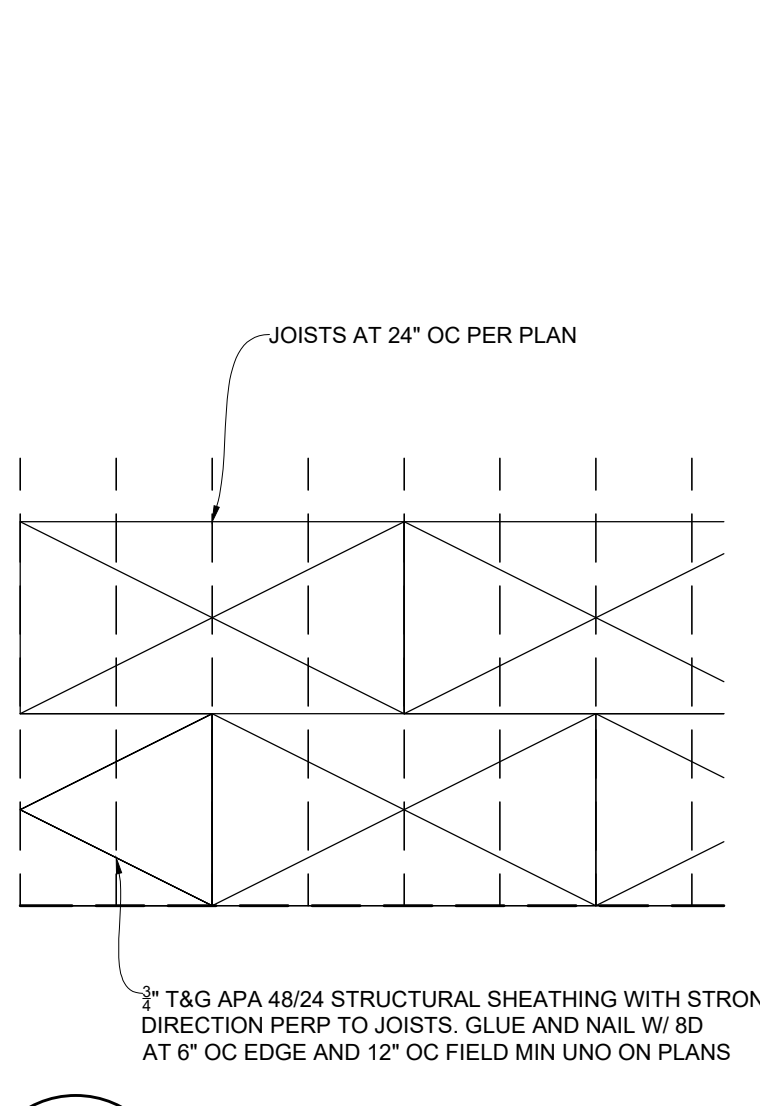
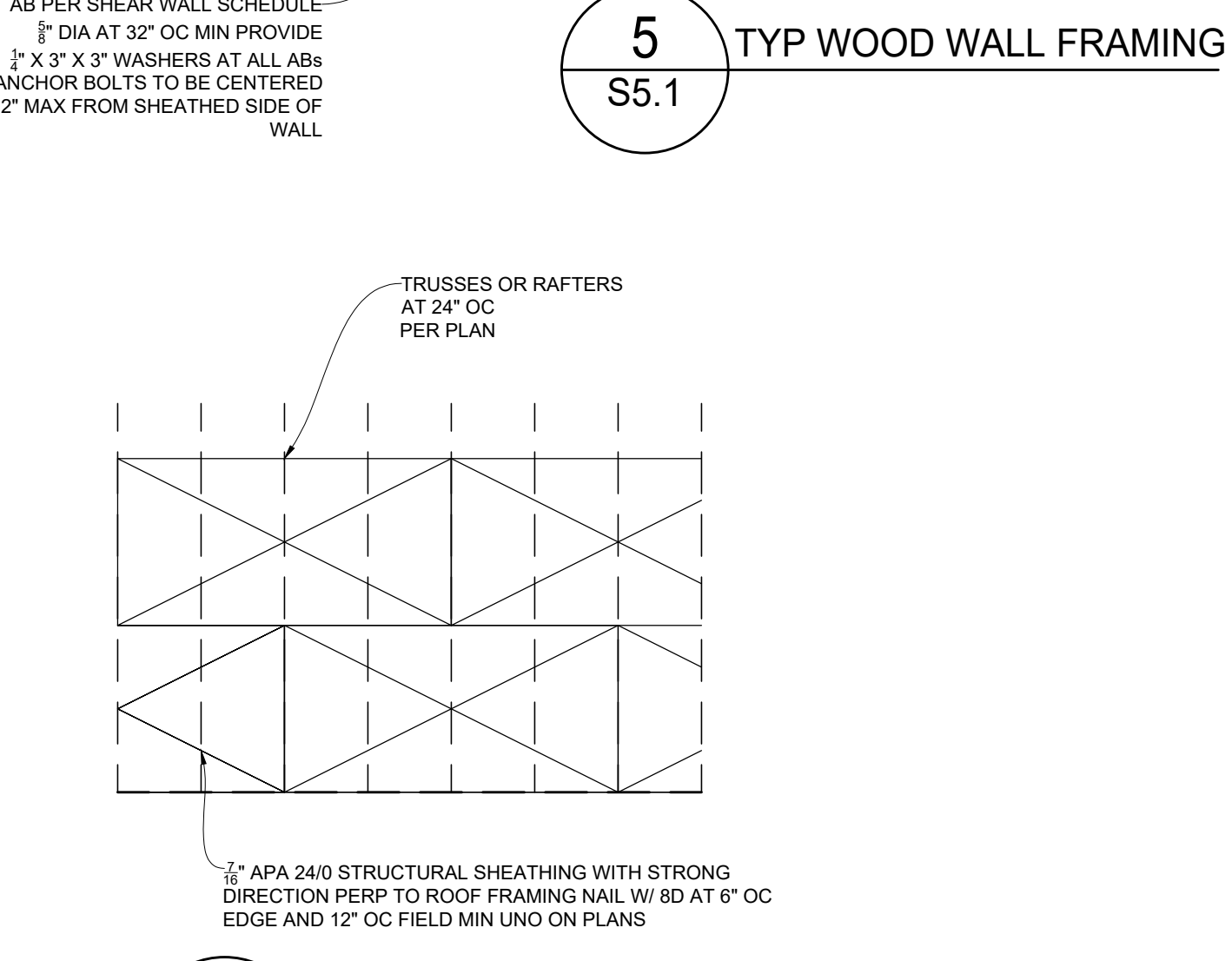
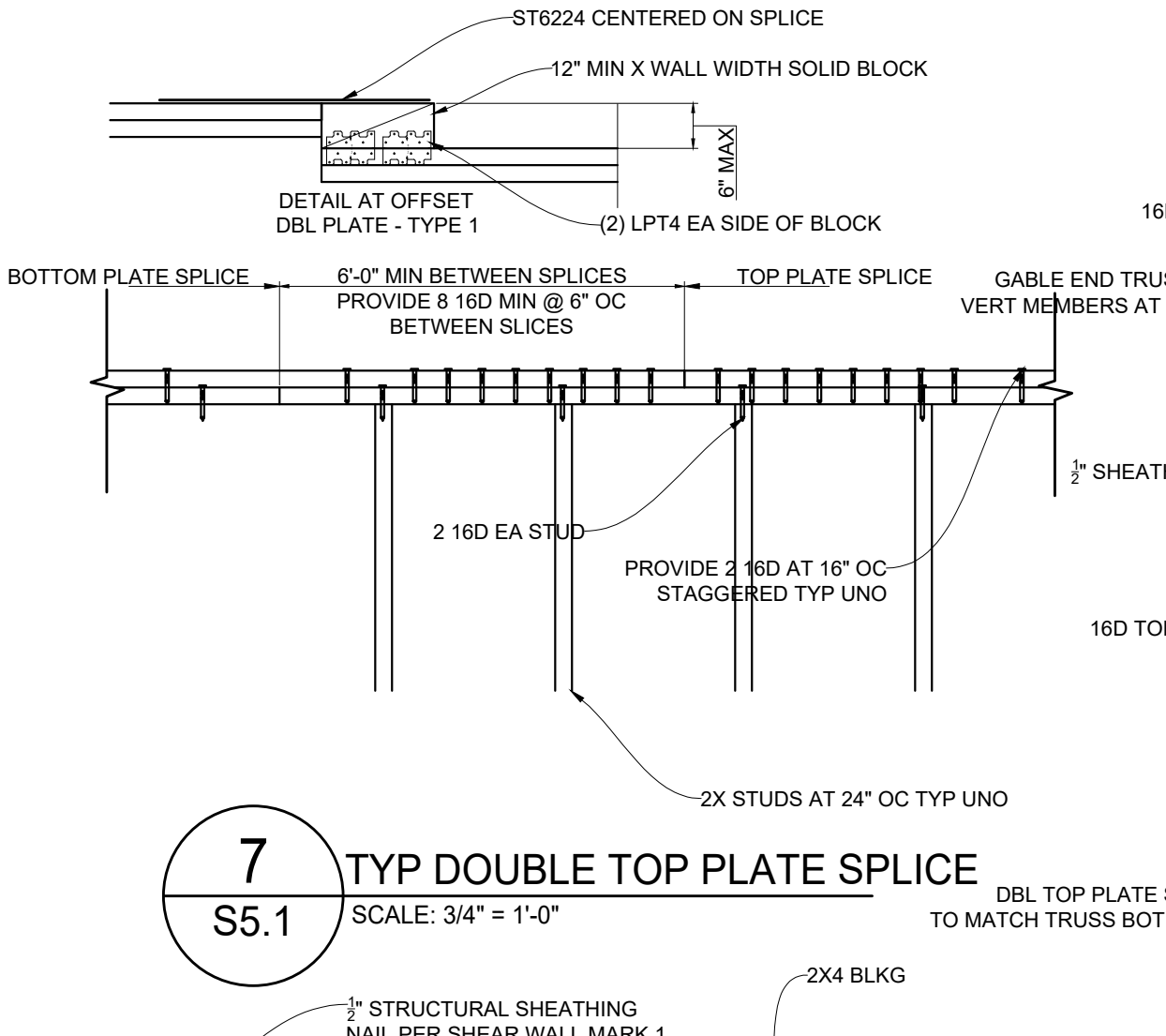
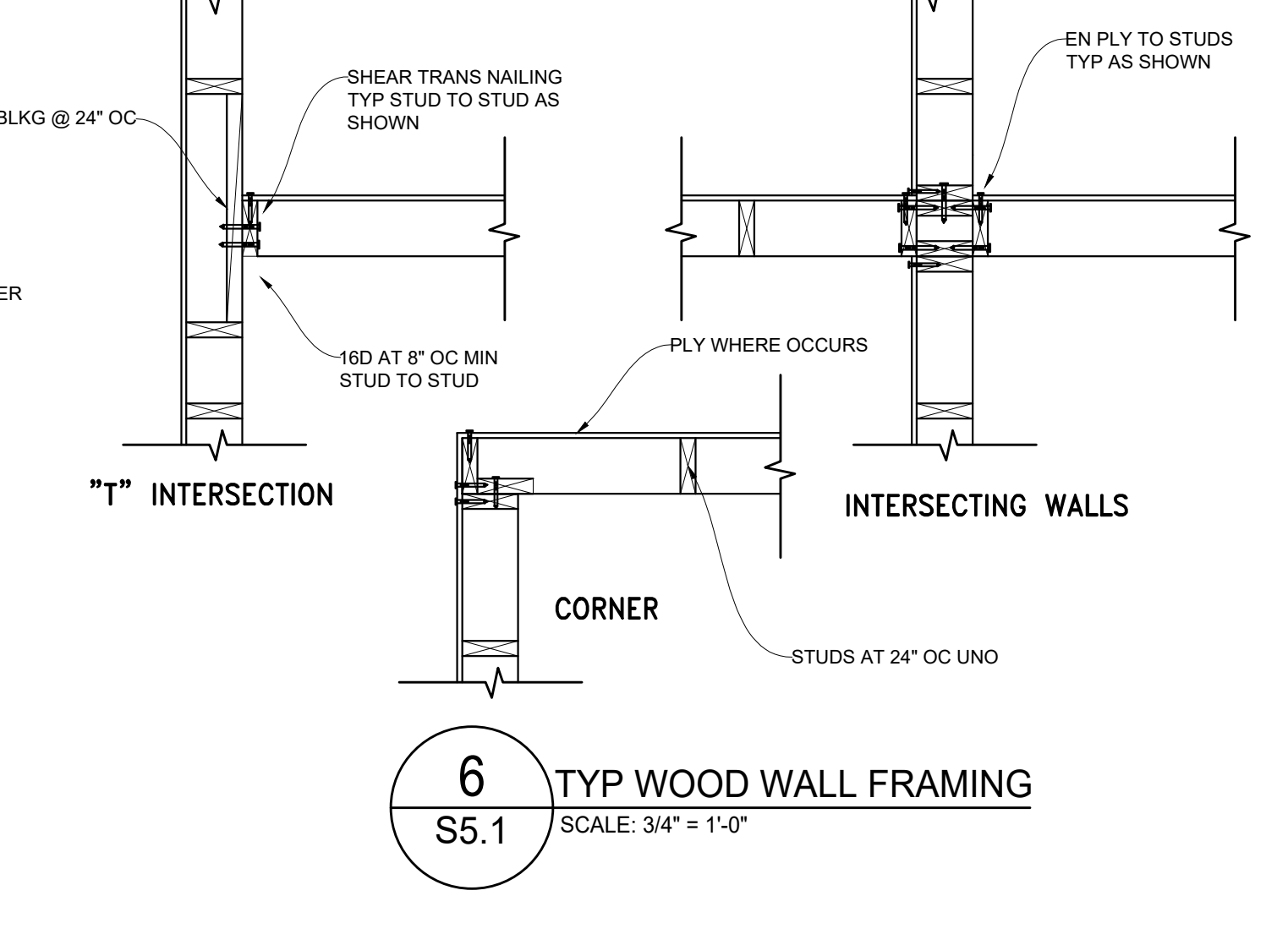
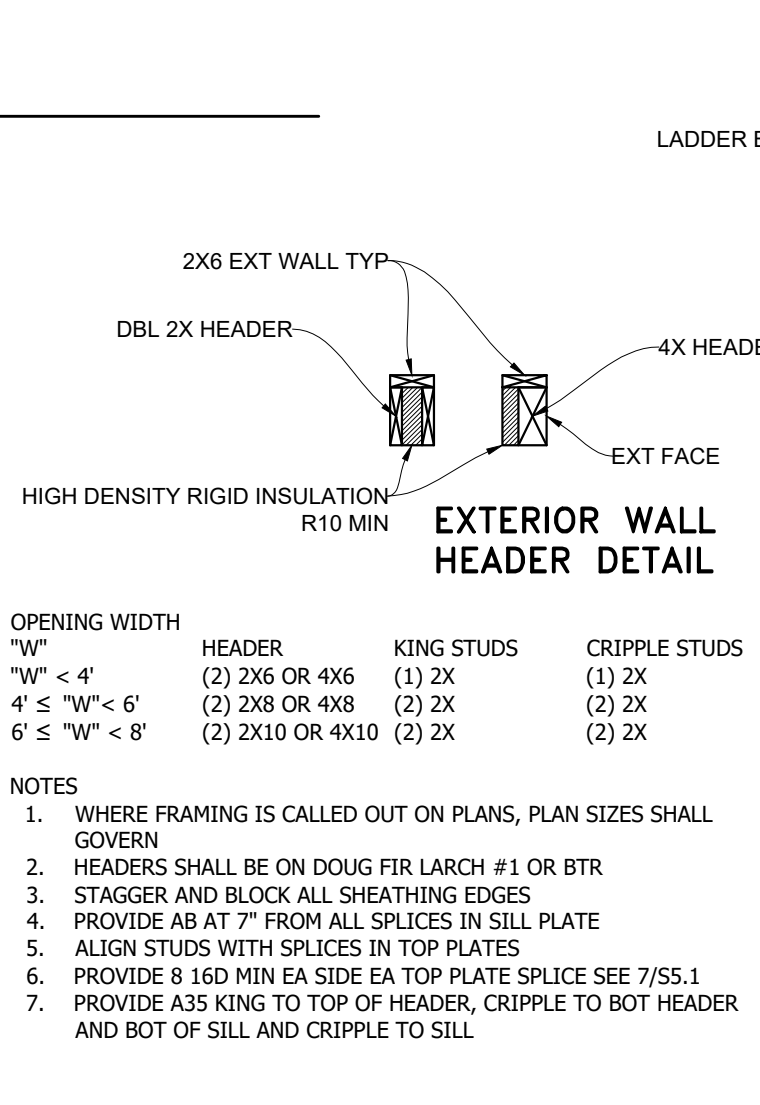
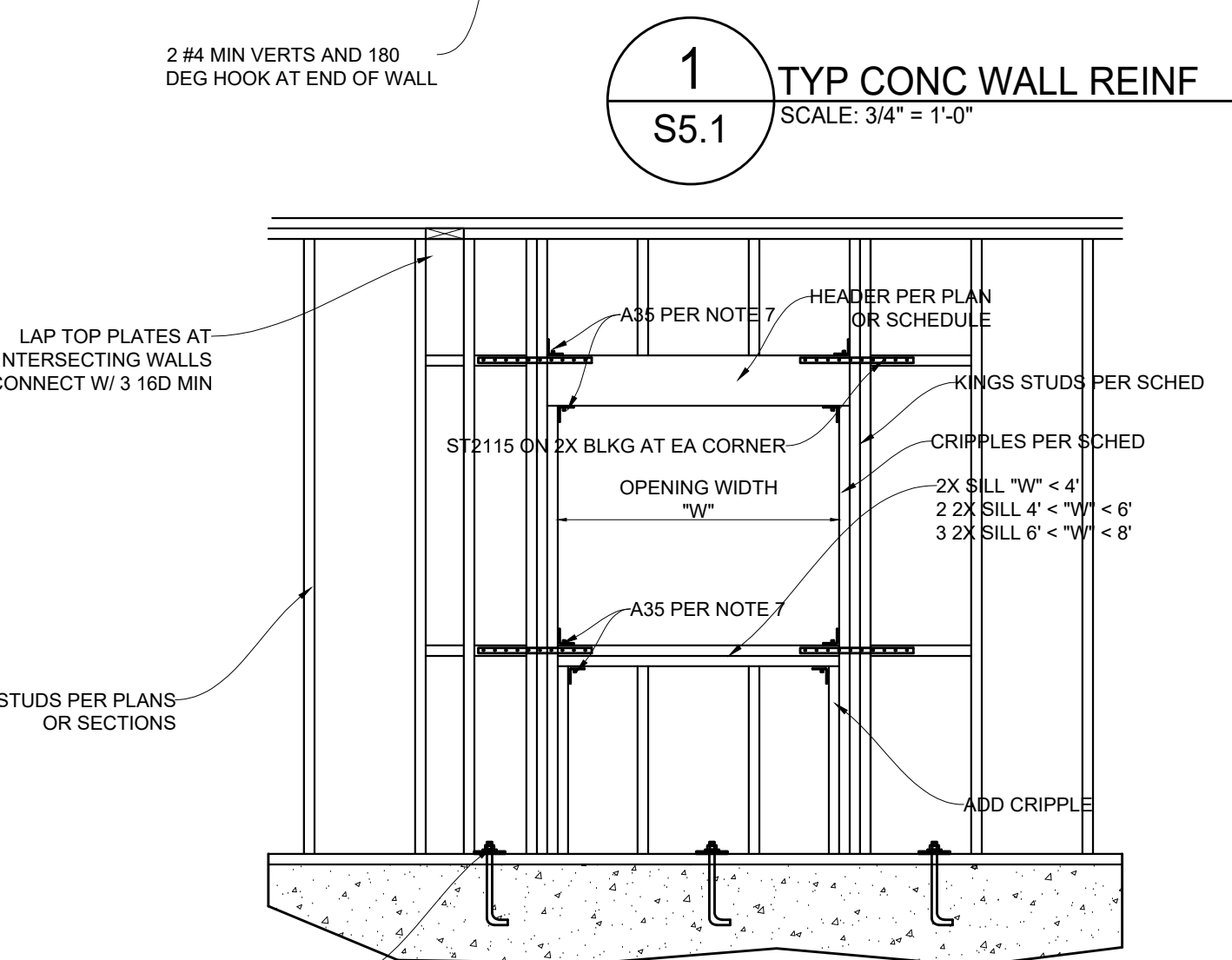
WALL THICKNESS	HORIZ BARS	VERT BARS	LOCATION
UP TO 6"	#4 @ 12" OC	#4 @ 12" OC	CENTERLINE
OVER 6" TO 8"	#5 @ 16" OC	#5 @ 16" OC	CENTERLINE
OVER 8" TO 10"	#5 @ 12" OC	#5 @ 12" OC	CENTERLINE
OVER 10" TO 12"	#4 @ 12" OC	#4 @ 12" OC	EACH FACE
OVER 12" TO 14"	#5 @ 16" OC	#5 @ 16" OC	EACH FACE
OVER 14" TO 18"	#5 @ 12" OC	#5 @ 12" OC	EACH FACE

NOTES:
 1. LSB = BOTTOM BAR DEVELOPMENT LENGTH
 2. LD = TOP BAR DEVELOPMENT LENGTH
 3. LS = BOT BAR SPLICE LENGTH
 4. LST = TOP BAR SPLICE LENGTH
 5. LDH = HOOKED BAR DEVELOPMENT LENGTH
 6. BARS LARGER THAN #9 SHALL USE MECHANICAL COUPLERS
 7. TOP BARS HAVE MORE THAN 12" CONC BELOW
 8. INCREASE LENGTHS BY 50% WHERE BAR COVER IS LESS THAN BAR DIAM
 9. WHEN SPLICING DIFFERENT BAR SIZES USE LARGER BAR LENGTHS

FOOTING SCHEDULE

MARK	SIZE	REINFORCEMENT
FTG1	2' X 2' X 10"	(3) #4 BARS EACH WAY
FTG2	3' X 3' X 10"	(4) #4 BARS EACH WAY
FTG3	4' X 4' X 12"	(5) #4 BARS EACH WAY
FTG4	4' X 4' X 24"	(5) #5 BARS EACH WAY TOP AND BOTTOM
FTG5	5' X 5' X 12"	(6) #5 BARS EACH WAY
FTG6	6' X 6' X 24"	(7) #6 BARS EACH WAY TOP AND BOTTOM
FTG7	16" DIA X 18" EMBED	W/ (4) #3 VERT AND #3 TIES AT 6" OC

NOTES:
 1. SPREAD FOOTINGS SHALL BE CENTERED UNDER WALL OR POST AS APPLICABLE. EXTERIOR FOOTINGS SHALL BE BASED 18" MINIMUM BELOW LOWEST ADJACENT GRADE.
 2. FOUNDATION CONCRETE SHALL BE 3000 PSI, 3/4" MAX AGGREGATE, NORMAL WEIGHT, 4" MAX SLUMP, 0.5 MAX W/C RATIO.
 3. BOTTOM REINFORCEMENT SHALL BE 3" CLEAR OF BOTTOM OF FOOTING. TOP REINFORCEMENT SHALL BE 2" CLEAR OF TOP.
 4. BOTTOM OF PAD FTGS SHALL BE FLUSH WITH BOTTOM OF ADJACENT WALL FTGS



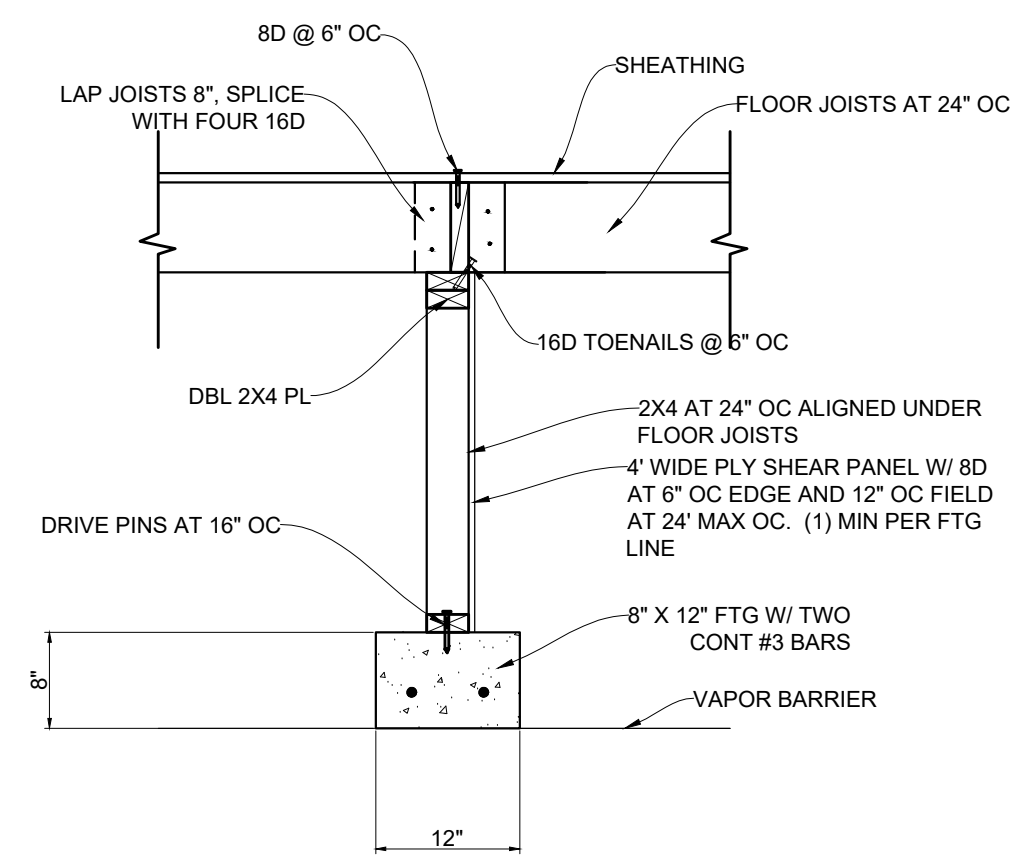
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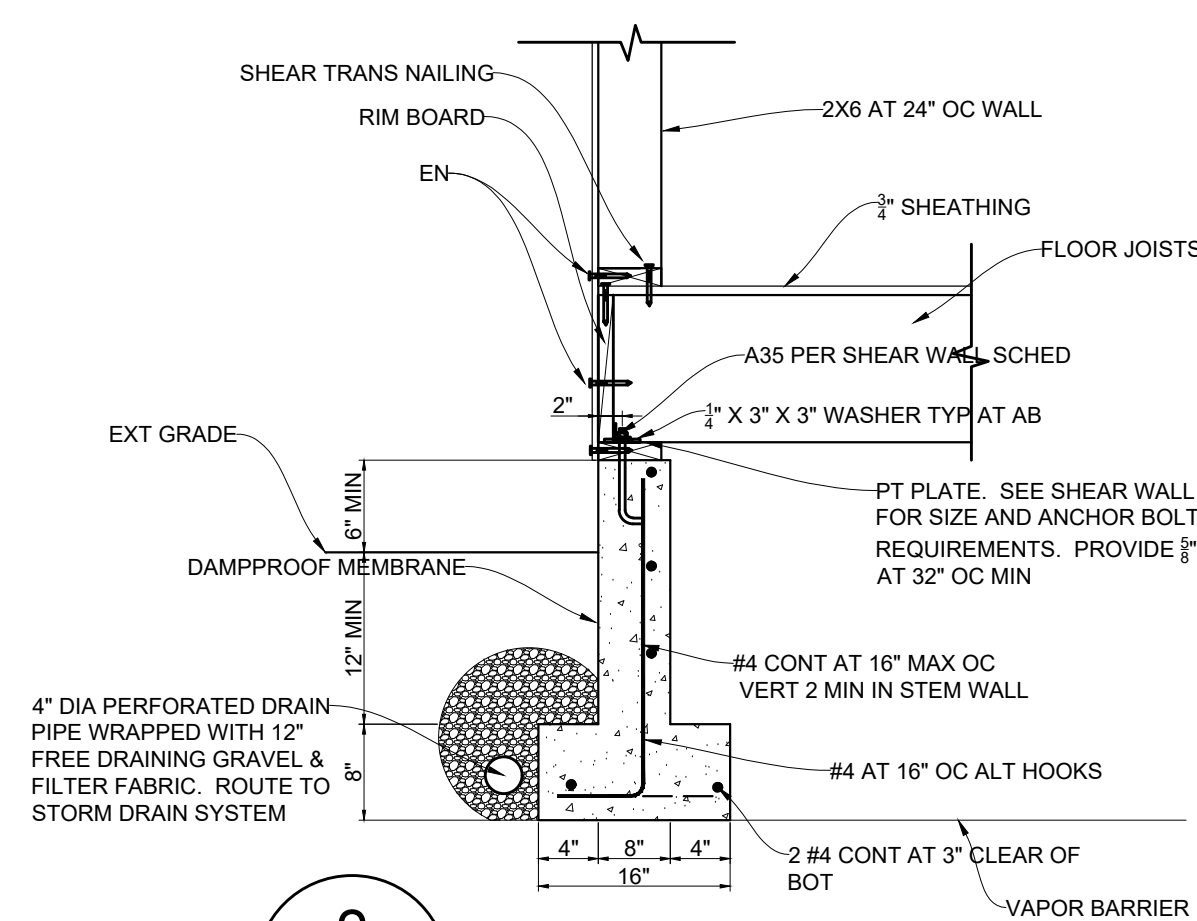
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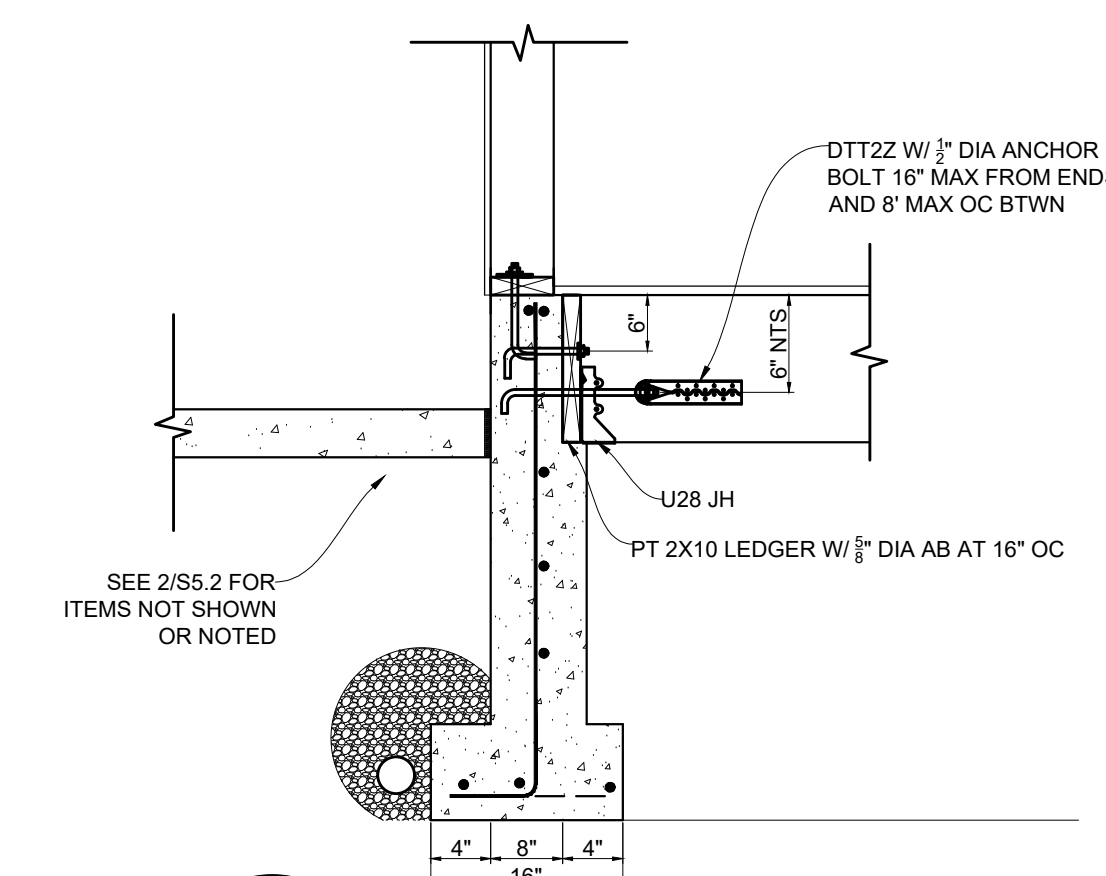
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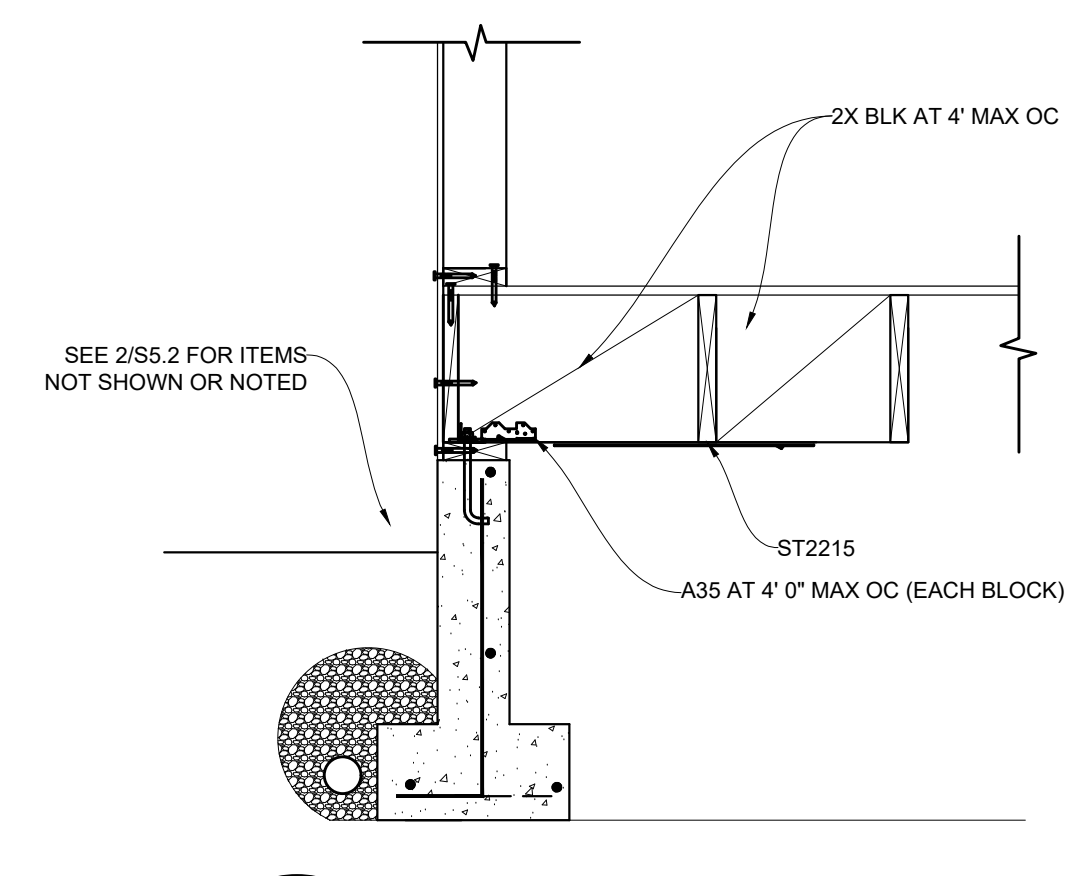
1 INT FOOTING
S5.2 SCALE: 3/4" = 1'-0"



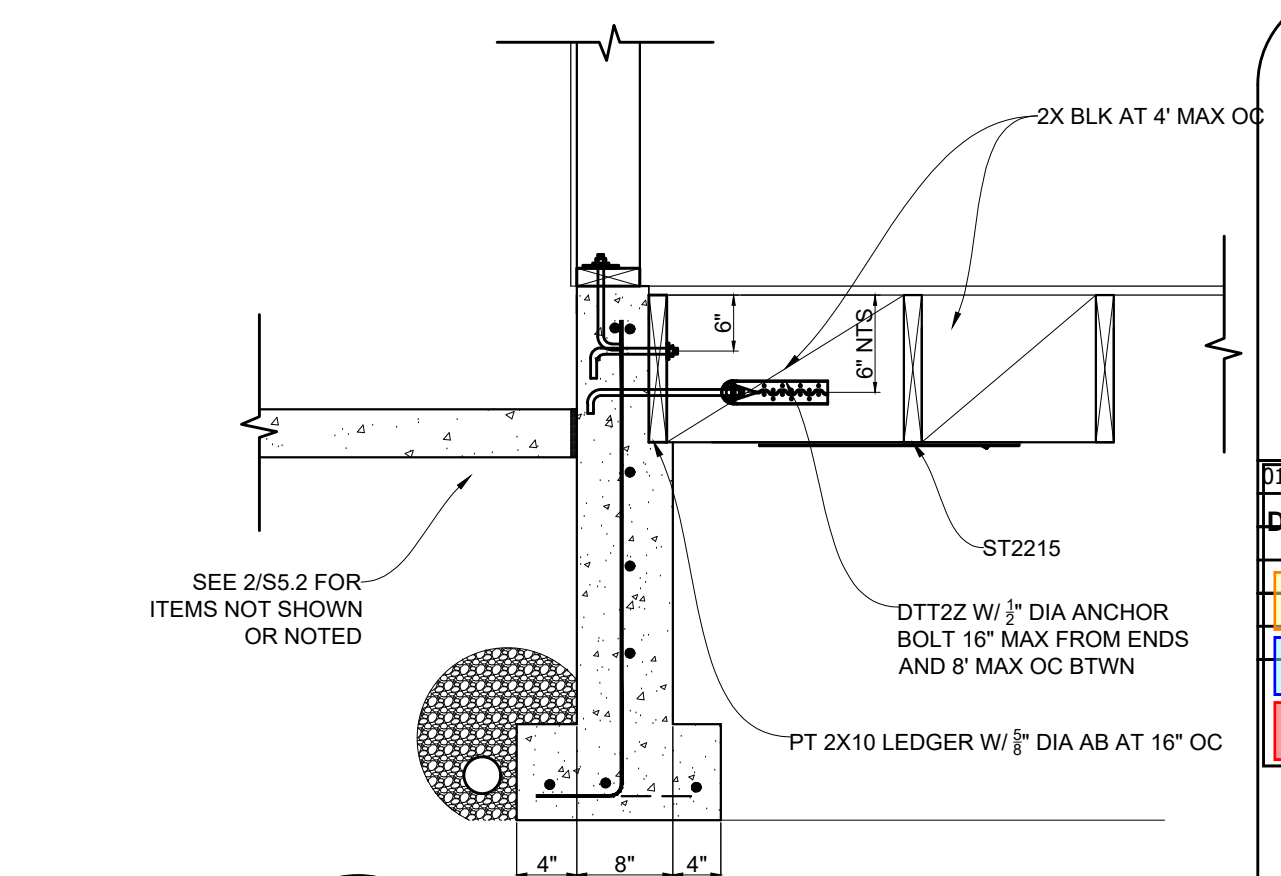
2 EXT FOOTING
S5.2 SCALE: 3/4" = 1'-0"



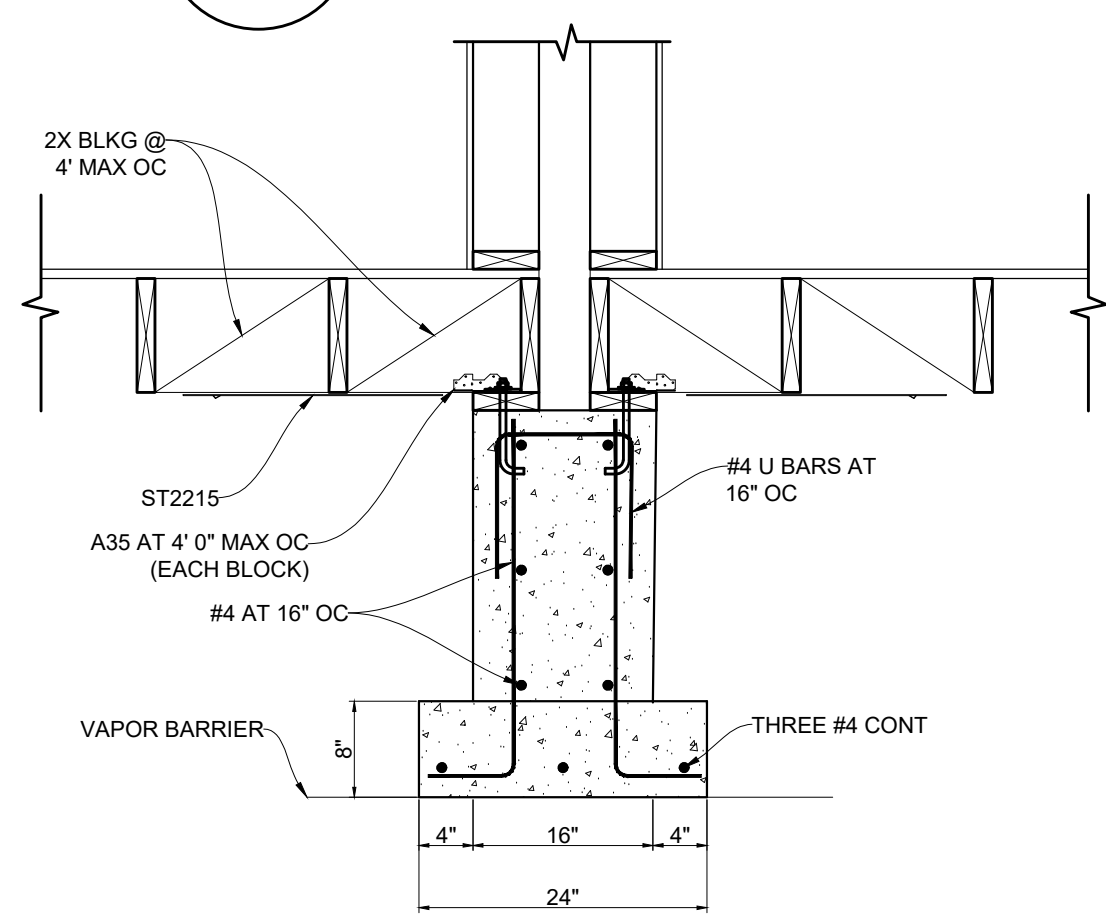
3 EXT FOOTING
S5.2 SCALE: 3/4" = 1'-0"



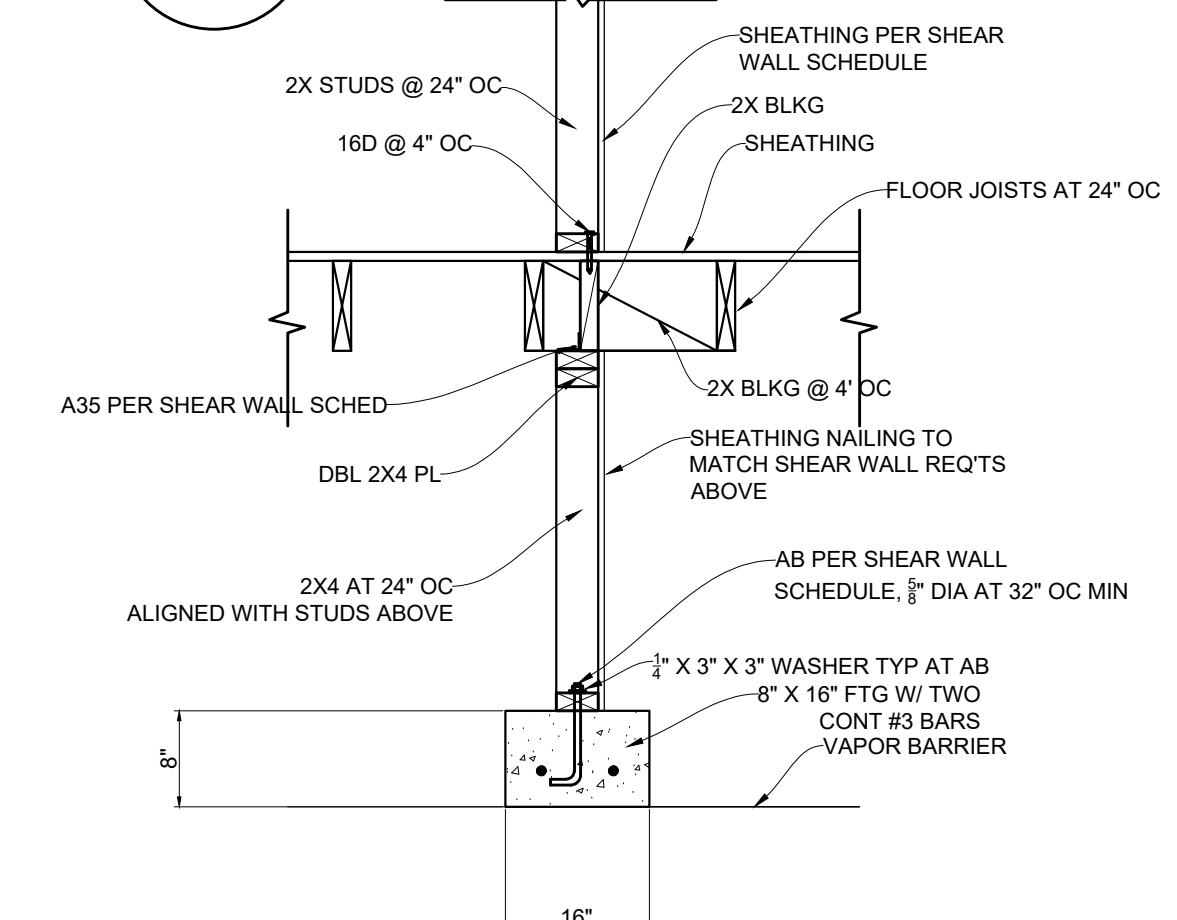
4 EXT FOOTING
S5.2 SCALE: 3/4" = 1'-0"



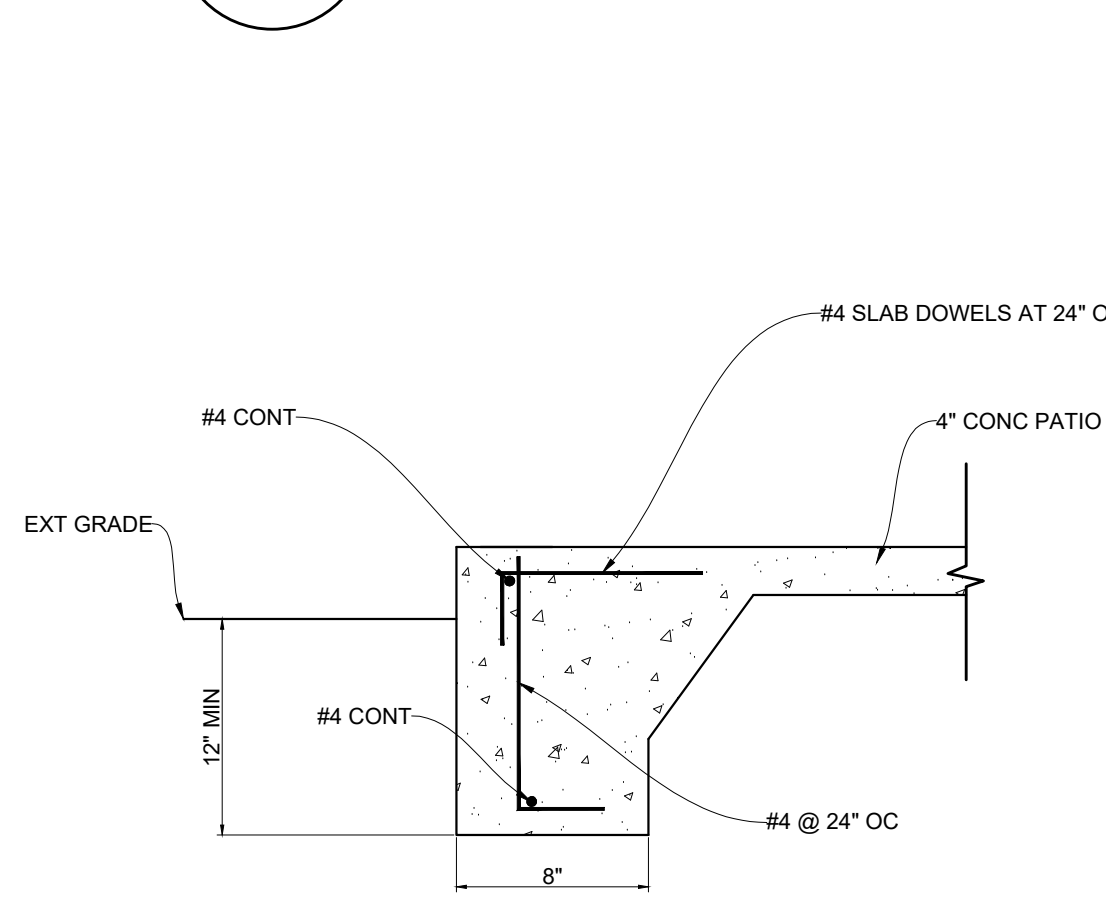
5 EXT FOOTING
S5.2 SCALE: 3/4" = 1'-0"



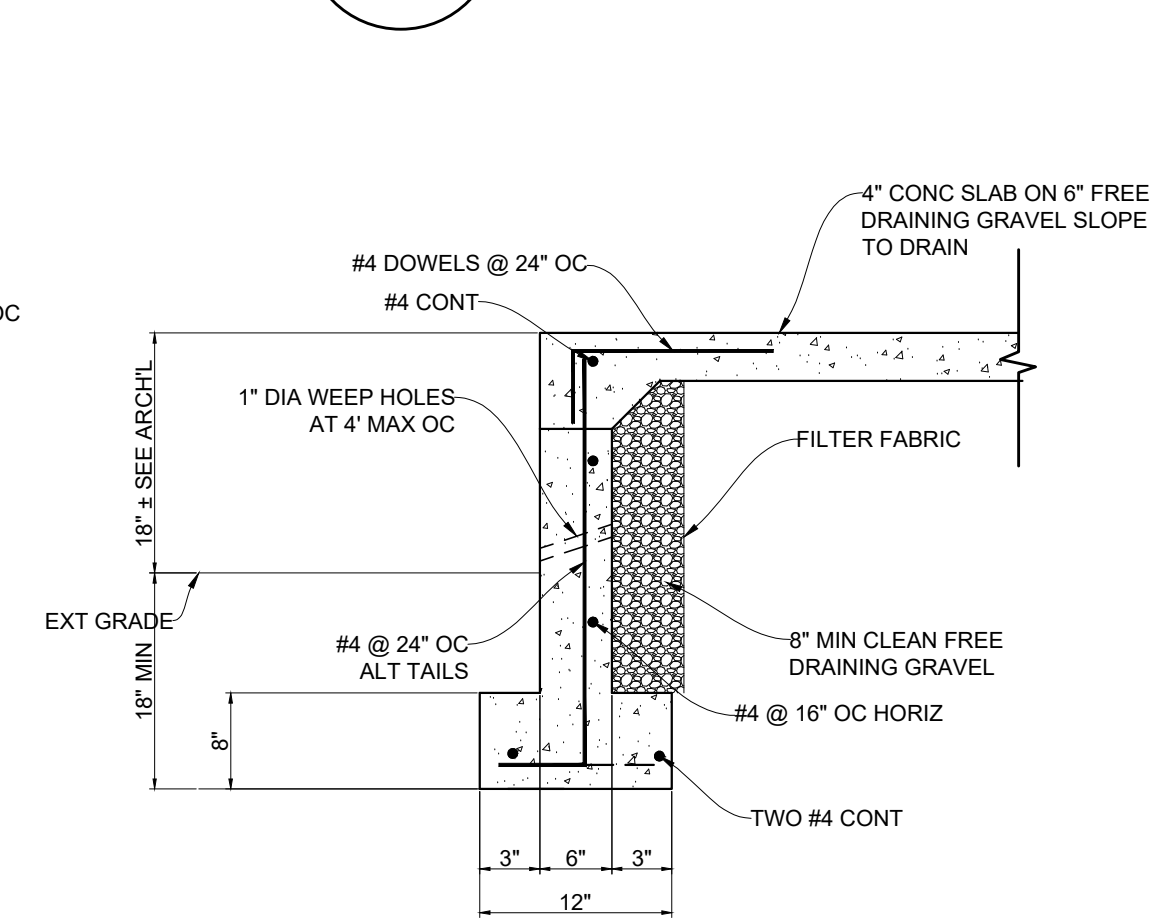
6 INT FOOTING
S5.2 SCALE: 3/4" = 1'-0"



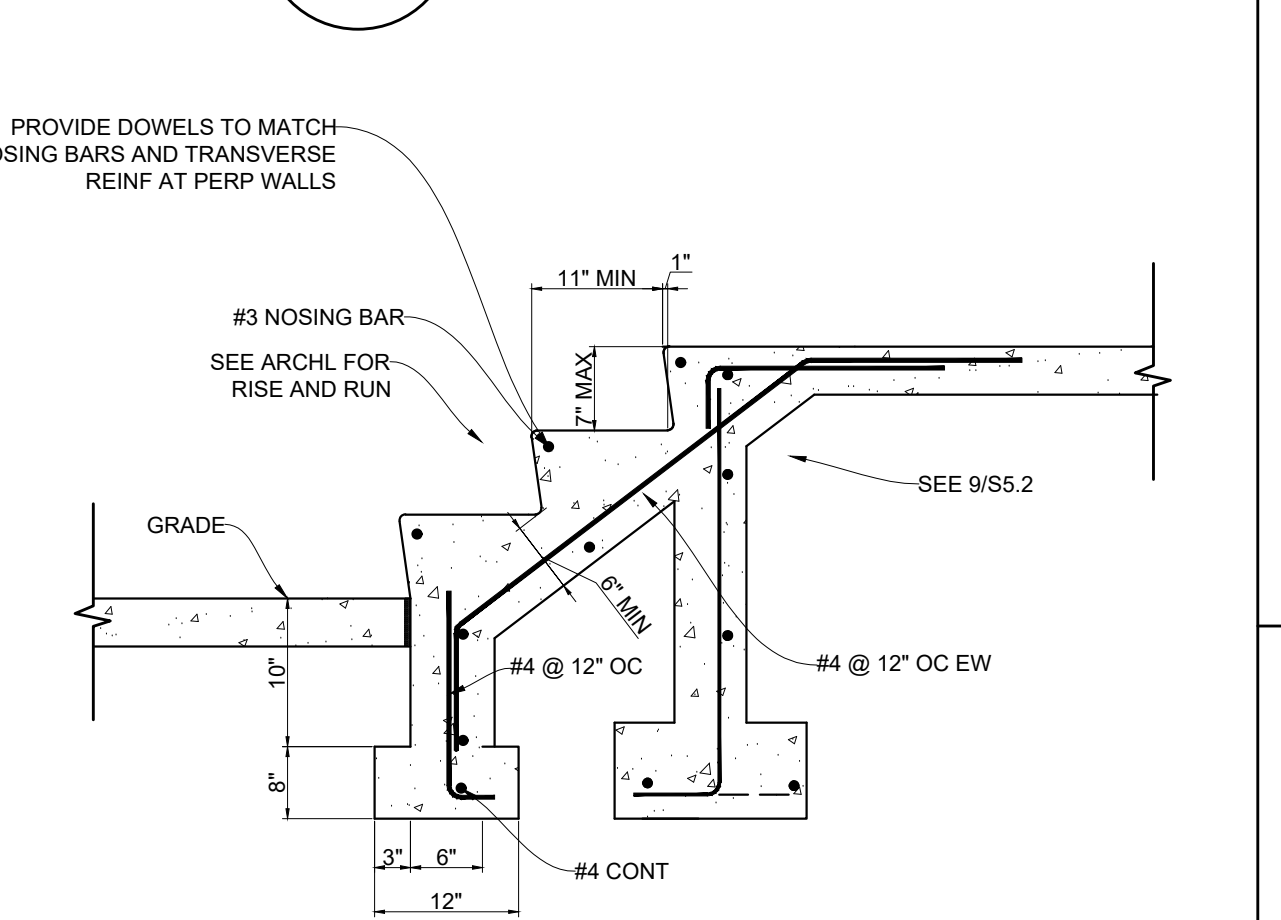
7 INTERIOR FOOTING
S5.2 SCALE: 3/4" = 1'-0"



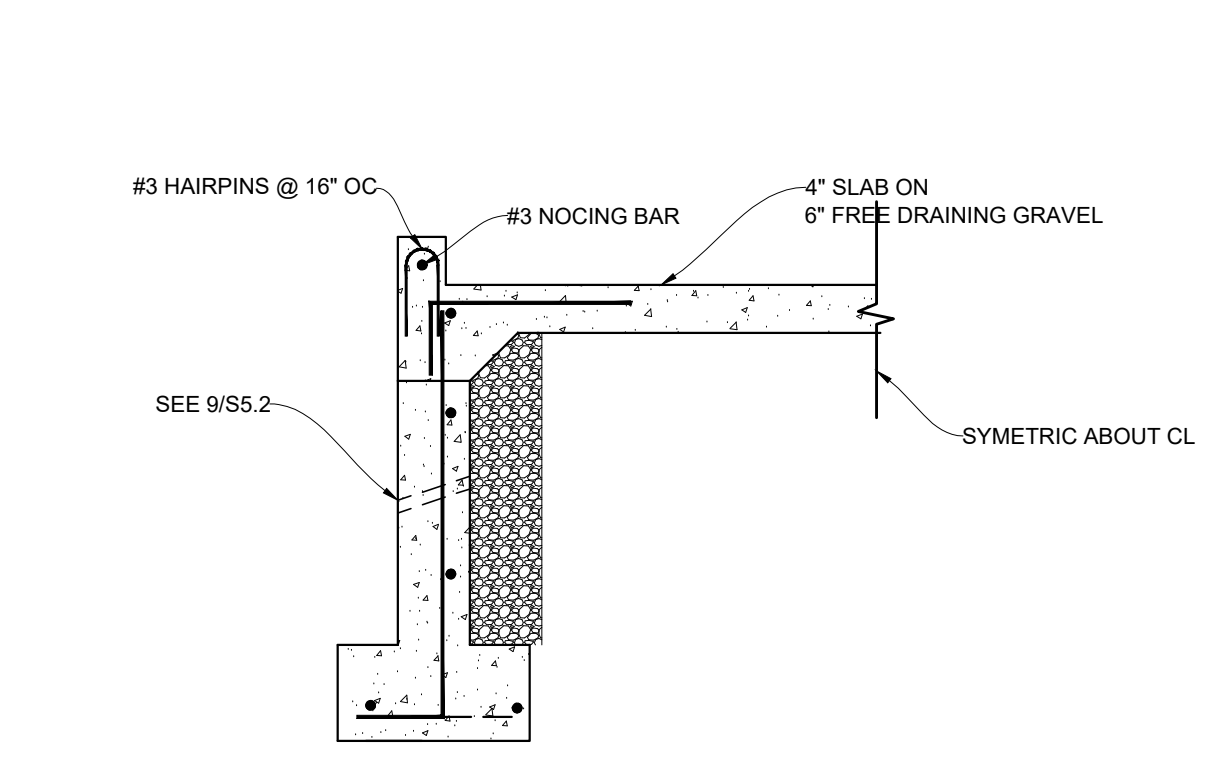
8 THICKENED SLAB EDGE
S5.2 SCALE: 3/4" = 1'-0"



9 DETAIL
S5.2 SCALE: 3/4" = 1'-0"



10 DETAIL
S5.2 SCALE: 3/4" = 1'-0"

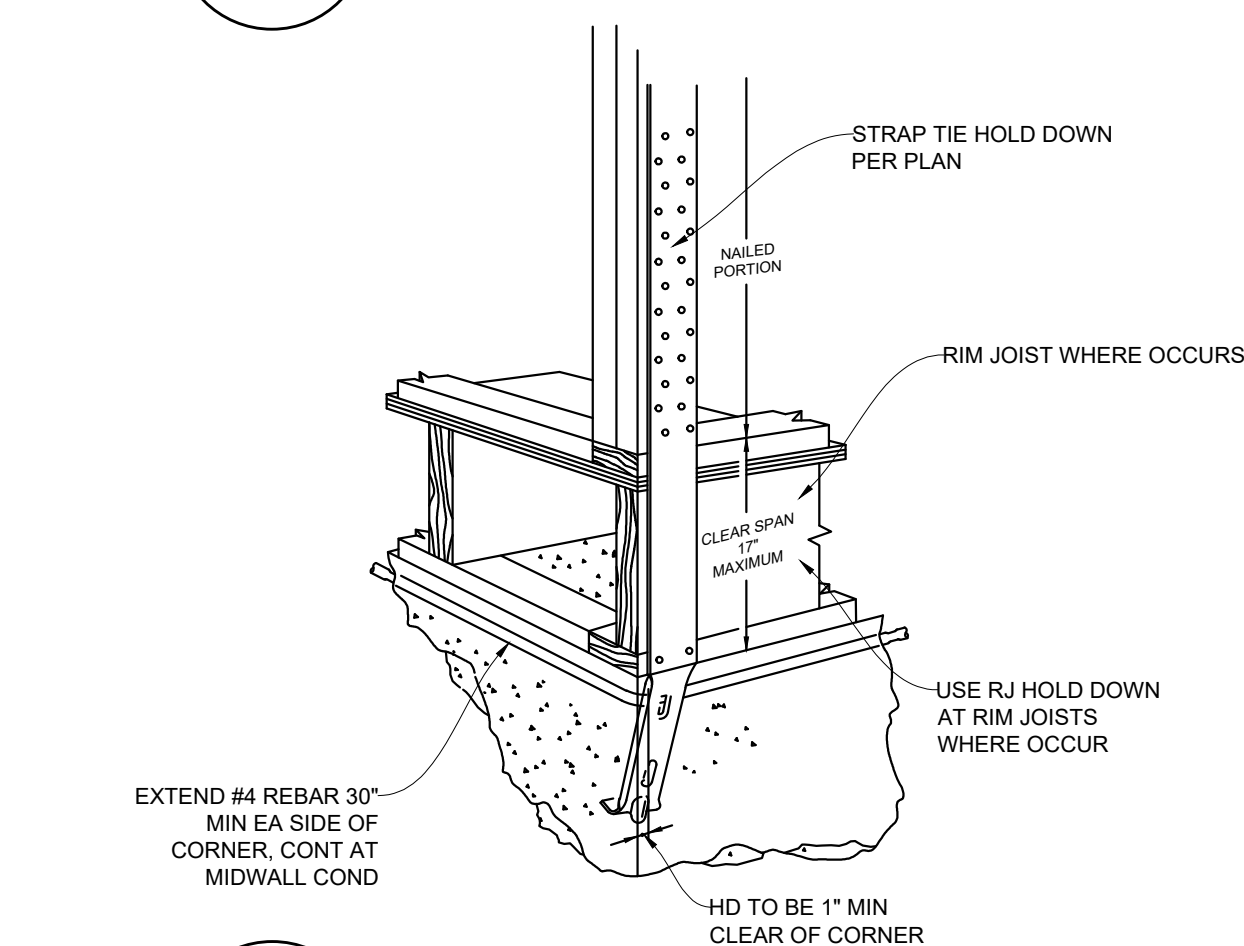


11 DETAIL
S5.2 SCALE: 3/4" = 1'-0"

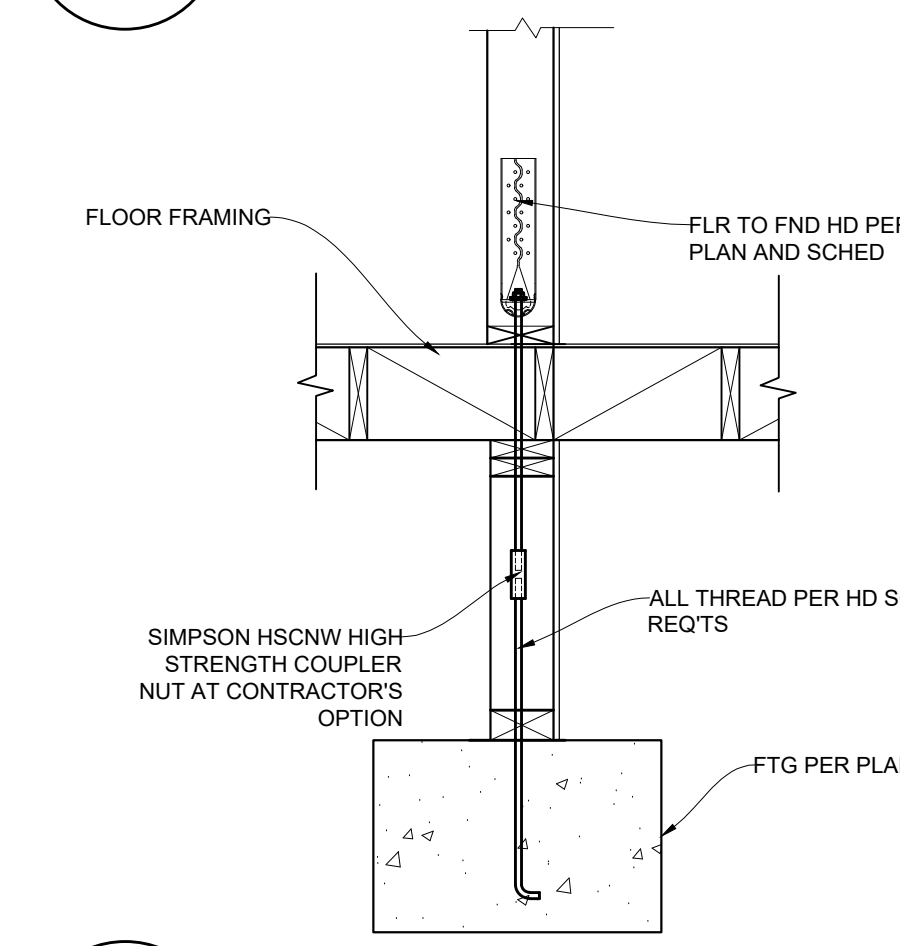
COIL STRAP PER PLAN

STRAP	DOUG FIR		HEM FIR	
	END L.	NAILS	END L.	NAILS
CS22	6"	12-8D	8"	14-8D
CS20	9"	14-8D	9"	16-8D
CS18	11"	18-8D	12"	22-8D
CS16	13"	22-8D	14"	26-8D
CS14	16"	30-8D	19"	36-8D
CMSTC16	20"	50-16D	25"	58-16D
CMST14	30"	65-10D	34"	76-10D
CMST12	33"	74-16D	38"	84-16D

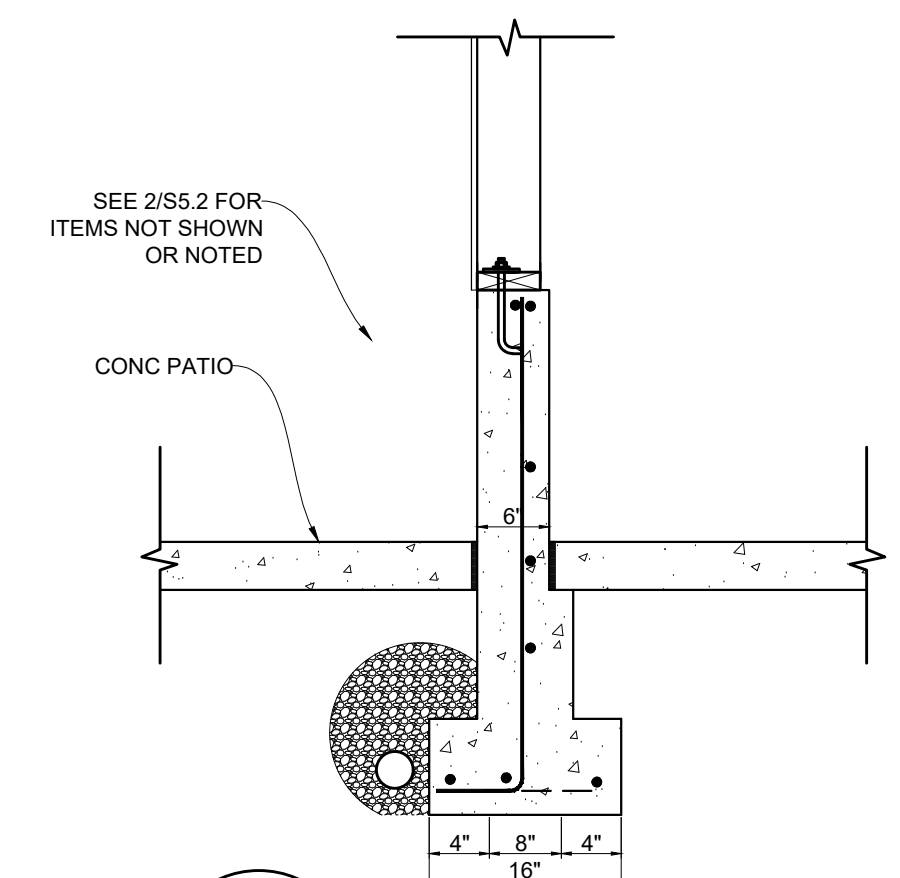
12 COIL STRAP DETAIL
S5.2 SCALE: 3/4" = 1'-0"



13 FOUNDATION HOLD DOWN
S5.2 SCALE: 3/4" = 1'-0"



14 HD DETAIL & SCHEDULE
S5.2 SCALE: 3/4" = 1'-0"



15 EXT FOOTING
S5.2 SCALE: 3/4" = 1'-0"



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GENERAL PLUMBING NOTES

- 1 THE FOLLOWING NOTES APPLY TO ALL PLUMBING DRAWINGS. ADDITIONAL PLUMBING NOTES MAY BE INDICATED ON EACH PLUMBING DRAWING. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2 INSTALLATION SHALL COMPLY WITH ALL GOVERNING CODES AND REGULATIONS (LOCAL AND STATE). NOTHING ON THE DRAWINGS OR SPECIFICATIONS SHALL BE CONSTRUED AS ALLOWING DEVIATION FROM THIS REQUIREMENT. IF A CONFLICT SHOULD OCCUR BETWEEN DRAWINGS AND REGULATIONS, THE REGULATIONS SHALL TAKE PRECEDENT AND CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING OF SUCH CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION.
3 INSTALL ALL WASTE LINE CLEANOUTS IN ACCORDANCE WITH CHAPTER SEVEN OF THE UNIFORM PLUMBING CODE:
A. 3" WASTE PIPE - 3" CLEANOUT WITH 2.5" PLUG
B. 4" WASTE PIPE - 4" CLEANOUT WITH 3.5" PLUG
C. 6" WASTE PIPE - 4" CLEANOUT WITH 3.5" PLUG
4 WASTE, VENT AND SUPPLY PIPING SIZES TO INDIVIDUAL PLUMBING FIXTURES SHALL BE AS SHOWN ON PLUMBING FIXTURE SCHEDULES. BELOW GRADE SANITARY WASTE PIPING SIZES SHALL BE AS SHOWN ON PLANS AND FIXTURE SCHEDULES AND SHALL NOT BE LESS THAN 2" DIAMETER.
5 ALL SANITARY SEWER PIPING BELOW SLAB SHALL BE INSTALLED AT A MINIMUM OF 1/4" PER FT SLOPE UNLESS APPROVAL IS PROVIDED BY THE "ADMINISTRATIVE AUTHORITY" IN WRITING FOR A SHALLOWER SLOPE. IN NO CASES SHALL SEWER PIPING BE INSTALLED AT LESS THAN 1/8" PER FT SLOPE. IN NO CASES WILL PIPING SMALLER THAN 4" BE INSTALLED AT SLOPES SHALLOWER THAN 1/4" PER FOOT. PIPING INSTALLED AT 1/8" FT SHALL BE RESIZED PER CHAPTER 7 OF THE UNIFORM PLUMBING CODE AND SUPPORTING CALCULATION SUBMITTED TO ENGINEER FOR REVIEW.
6 PROVIDE STOPS PRIOR TO ALL PLUMBING EQUIPMENT. THIS SHALL ALSO INCLUDE PROVIDING INTEGRAL STOPS ON ALL SHOWER AND TUB/SHOWER VALVES (WHETHER SPECIFIED OR NOT). PROVIDE WASTE TRAPS AT ALL DIRECT CONNECTED EQUIPMENT IN ACCORDANCE WITH CODE AND THE SPECIFICATIONS.
7 PROVIDE TRAP PRIMERS AT ALL FLOOR DRAINS UNLESS NOTED OTHERWISE. PROVIDE UNION ON UPSTREAM AND DOWNSTREAM SIDE OF ALL TRAP PRIMERS. TRAP PRIMER BRANCH TAKEOFF SHALL BE FROM TOP OF MAIN DISTRIBUTION PIPE.
8 INSULATE P-TRAPS EXPOSED IN UNHEATED SPACES.
9 SEE ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE ROUGH-IN DIMENSIONS AND OTHER DETAILS. ALSO SEE ARCHITECTURAL DRAWINGS FOR FINISH REQUIREMENTS OF ALL PLUMBING FIXTURES INCLUDING REQUIREMENTS FOR FLUSH LEVER LOCATION AT ADA COMPLIANT TOILETS AND VALVE LOCATIONS OF ADA SHOWERS. REPORT ALL DISCREPANCIES TO ENGINEER PRIOR TO ANY WORK.
10 REFER TO ARCHITECTURAL DRAWING FOR ROOM ELEVATIONS. LOCATE PLUMBING FIXTURES AT HEIGHTS SHOWN ON ARCHITECTURAL ROOM ELEVATIONS.
11 PLUMBING DRAWINGS SHOW APPROXIMATE LOCATIONS OF PLUMBING FIXTURES. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS. COORDINATE FLOOR DRAINS FOR MECHANICAL SPACES WITH MECHANICAL EQUIPMENT BEING SERVED.
12 REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR GENERAL CONSTRUCTION INCLUDING CONCRETE EQUIPMENT PADS, FLASHING DETAILS, ETC.
13 REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL ELECTRICAL CHARACTERISTICS OF PLUMBING EQUIPMENT (VOLTAGES, ETC.).
14 ELECTRICAL CHARACTERISTICS OF LISTED EQUIPMENT SHALL BE VERIFIED BY CONTRACTOR DURING SUBMITTAL PROCESS. ANY ELECTRICAL CHARACTERISTICS THAT DEViate FROM THOSE LISTED SHALL BE IDENTIFIED BY THE CONTRACTOR, SUBMITTED TO THE ENGINEER FOR APPROVAL AND COORDINATED WITH DIVISION 26 ELECTRICAL PRIOR TO INSTALLATION OF EQUIPMENT AS REQUIRED TO PROPERLY SERVE EQUIPMENT.
15 SECURE WATER HEATERS AND STORAGE TANKS AND PLUMBING EQUIPMENT TO STRUCTURE AS REQUIRED BY CODE. REFER TO THE STRUCTURAL DRAWINGS FOR ADDITIONAL SPECIAL REQUIREMENTS RELATED TO THE PLUMBING INSTALLATION.
16 PROVIDE PLUMBING ANCHORAGE AND EXPANSION EVERY 100' PIPE LENGTH PER CODE.
17 ACCESS PANELS ARE REQUIRED AT ALL CONCEALED VALVES AND EQUIPMENT. COORDINATE LOCATION AND SIZE WITH ARCHITECT.
18 STUB OUT TO SITE SERVICES 5' OUTSIDE BUILDING FOUNDATION. PIPE SIZE, FIXTURE UNITS, AREA DRAINED, INVERT ELEVATION, SIZES, AND SQUARE FOOTAGES AS INDICATED. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.
19 INSULATE HORIZONTAL RAIN WATER LEADER PIPING FROM ROOF DRAIN TO VERTICAL RISER.
20 INSULATE PIPING PER WSEC C404.6 AND PER DIVISION 22 SPECIFICATIONS (WHICHEVER IS GREATER).
21 GENERALLY DUCTWORK PLANNED TO BE TIGHT TO STRUCTURE WITH PIPING BELOW DUCTWORK AND BETWEEN LIGHT FIXTURES. ADJUST AS NECESSARY.
22 PIPING INSTALLED ADJACENT TO ELECTRICAL CABLE TRAYS SHALL ALLOW MINIMUM ACCESS OF 6" IF RUNNING PARALLEL AND ABOVE CABLE TRAYS, ALLOW 18" TO THE SIDE OF CABLE TRAYS.
23 COORDINATE LOCATIONS OF PLUMBING EQUIPMENT TO PROVIDE CLEARANCES OVER LIGHTING FIXTURES FOR REMOVAL AND SERVICE ACCESS DUE TO EQUIPMENT MAINTENANCE.
24 REFER TO PIPING DIAGRAMS AND DETAILS FOR REQUIRED FITTINGS, VALVES, ETC. FLOOR PLANS AND SECTIONS INDICATE EQUIPMENT LOCATIONS AND GENERAL PIPE ROUTING ONLY.
25 PROVIDE FABRICATED STEEL MEMBER SUPPORTS AS REQUIRED BY MANUFACTURER'S INSTALLATION INSTRUCTIONS, AS INDICATED ON DRAWINGS, OR IN SPECIFICATIONS FOR INSTALLATION OF EQUIPMENT. REQUIRED STRUCTURAL MEMBERS, BOLTS, AND WELDS SHALL BE IN ACCORDANCE WITH AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL.
26 IF REQUIRED FOR INSTALLATION OF PIPES AND EQUIPMENT, PROVIDE ADDITIONAL STRUCTURAL MEMBERS BETWEEN COLUMNS, JOISTS, AND STRUCTURAL FRAME TO MEET SUPPORT REACTIONS (FORCES, MOMENTS, DEFLECTIONS). STRUCTURAL MEMBERS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER.
27 DO NOT CORE DRILL OR DRILL THROUGH BEAMS, COLUMNS, AND SHEAR WALLS, UNLESS INDICATED ON STRUCTURAL DRAWINGS OR AS APPROVED BY THE STRUCTURAL ENGINEER.
28 PIPES INDICATED WITHOUT DIMENSIONS SHALL BE SIZED PER PRECEDING UPSTREAM PIPE SECTIONS.
29 DRAWINGS ARE SCHEMATIC IN SOME AREAS AND MAY NOT SHOW PIPING OFFSETS WHICH MAY BE REQUIRED.
30 COORDINATE ALL PLUMBING WORK WITH ARCHITECTURAL PHASING DRAWINGS.
31 COORDINATE DEMOLITION WORK WITH ARCHITECTURAL DEMOLITION AND PHASING DRAWINGS.
32 PATCH ALL FLOOR, WALL, CEILING AND ROOF OPENINGS CREATED/CAUSED BY THE DEMOLITION OF EXISTING PIPES, FIXTURES, ETC. IN ACCORDANCE WITH DIVISION 1 OF THE SPECIFICATIONS 33 ALL WATER, SOIL, AND WASTE PIPING IN AREAS SUBJECT TO FREEZING SHALL BE PROTECTED FROM FREEZING PER THE REQUIREMENTS OF THE UPC 312.6.
34 WHERE PIPE SIZES ARE NOT SHOWN ON DRAWINGS, SIZE PIPING PER THE UNIFORM PLUMBING CODE.
35 PRIOR TO SUBMITTING ALL PLUMBING FIXTURES THE CONTRACTOR SHALL VERIFY COMPATIBILITY OF THE SPECIFIED FIXTURE WITH THE SIZES OF FINISH CABINERY AS IDENTIFIED IN GENERAL CONTRACTOR'S SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN THE SIZE OF THE FIXTURES SPECIFIED AND THE FINISH CABINERY SIZES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING BEFORE SUBMITTAL.
36 PLUMBING VENTS SHALL TERMINATE MINIMUM 10' FROM FRESH AIR INTAKES PER CODE.
37 LABEL ALL PIPING SYSTEMS PER THE IMC AND UPC.
38 SUPPORT AND BRACE PIPING SYSTEMS IN ACCORDANCE WITH UPC AND AS REQUIRED IN THE SPECIFICATIONS.
39 ALL MATERIALS IN CONTACT WITH PIPING SYSTEMS SHALL BE COMPATIBLE FOR USE WITH AND FOR CONTACT WITH THE PIPING MATERIAL. CONTRACTORS AND TRADES SHALL VERIFY COMPATIBILITY OF THEIR PRODUCTS WITH THE PIPING SYSTEMS. THIS INCLUDES, BUT IS NOT LIMITED TO, FIRE STOPPING SEALANTS, FIRE STOPPING COLLARS, VIBRATION ISOLATION ELEMENTS, THERMAL INSULATION, EXPANSION JOINTS AND ANY MATERIAL IN CONTACT WITH PIPES.
40 ALL CAST IRON SOIL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE (CISPI) AND BE LISTED BY NSF INTERNATIONAL.
41 PIPE BURIAL METHODS FOR BELOW GRADE PIPING SHALL COMPLY WITH MFR INSTALLATION INSTRUCTIONS, ASTM D 2321 AND ASTM F1668. FAILURE TO FOLLOW THESE REQUIREMENTS CAN LEAD TO PIPE FAILURE.
42 ROOF MOUNTED PIPING SHALL BE INSTALLED ON FREE FLOATING, PREFABRICATED SUPPORTS SIMILAR TO MIRO MODEL 24-R OR ROOF TOP BLOX ON WALKWAY TREAD PADS. THE USE OF WOOD FOR SUPPORTS IS PROHIBITED.

43 ALL ITEMS IN CONTACT WITH POTABLE WATER SHALL COMPLY WITH THE NATIONAL "REDUCTION OF LEAD IN DRINKING WATER ACT" S.3874.

44 WHERE MANUFACTURERS HAVE RECOMMENDED OR REQUIRED TRAINING PROGRAMS FOR THE INSTALLATION OF THEIR PRODUCT, THEN ALL CONTRACTOR EMPLOYEES INSTALLING THAT PRODUCT SHALL BE TRAINED AND HAVE WRITTEN DOCUMENTATION CONFIRMING THAT TRAINING, AND SHALL FURNISH A COPY OF THE TRAINING DOCUMENTATION WITHIN THE PROJECT SUBMITTAL FOR EACH INSTALLING INDIVIDUAL SHOWING CURRENT INSTALLATION TRAINING WITHIN TWO (2) YEARS OF START OF THIS PROJECT.

45. PROVIDE PIPING PROTECTION PER IRC M1308.2

PLUMBING CALCULATIONS - BUILDING B

2021 UPC PLUMBING CODE PER TABLE 702.1 AND TABLE A-103.1. BUILDING SUMMARY table with columns for MIN. SIZE TRAP/ARM, IN., QTY, DOMESTIC WATER WSFU (PER, HW PER, TOTAL), and SEWER DFU (PER, TOTAL).

PLUMBING CALCULATIONS - 2.5 BATH UNIT

2021 UPC PLUMBING CODE PER TABLE 702.1 AND TABLE A-103.1. BUILDING SUMMARY table for 2.5 Bath Unit with columns for MIN. SIZE TRAP/ARM, IN., QTY, DOMESTIC WATER WSFU, and SEWER DFU.

PLUMBING CALCULATIONS - 1 BATH UNIT

2021 UPC PLUMBING CODE PER TABLE 702.1 AND TABLE A-103.1. BUILDING SUMMARY table for 1 Bath Unit with columns for MIN. SIZE TRAP/ARM, IN., QTY, DOMESTIC WATER WSFU, and SEWER DFU.

2021 UPC APPENDIX A WATER SERVICE CALCULATIONS - 2.5 BATH UNIT

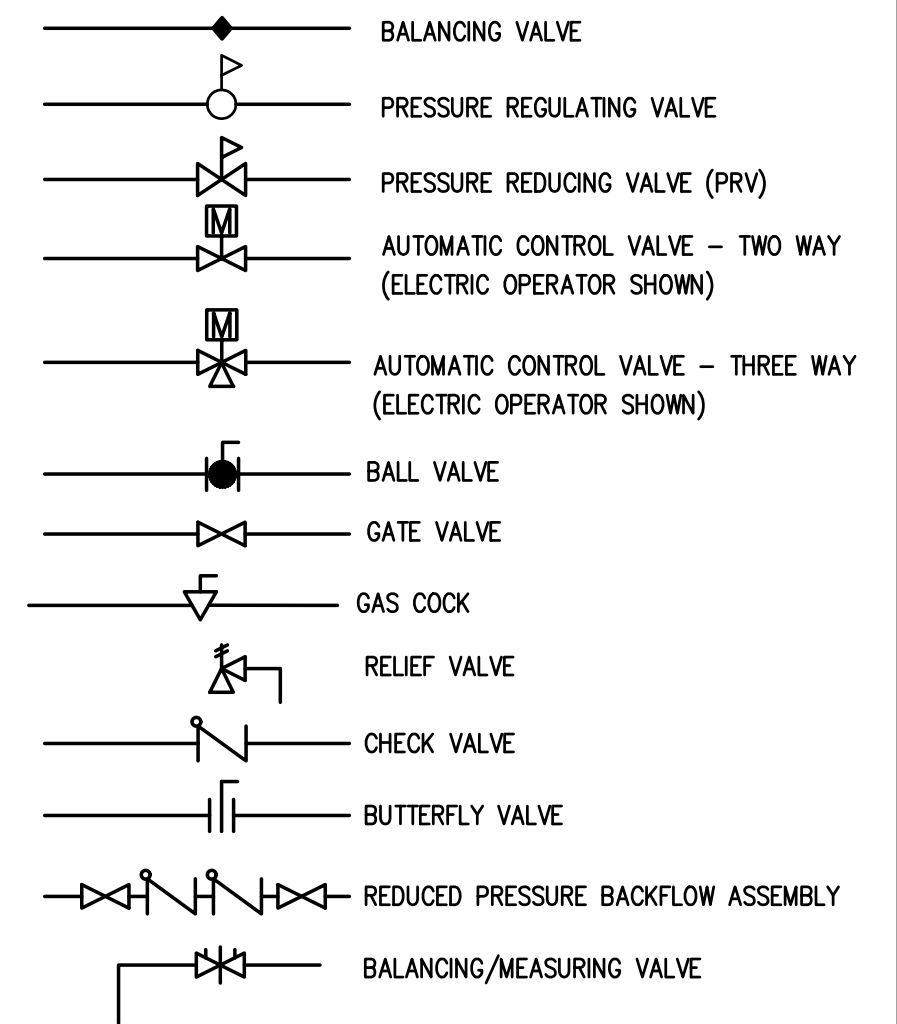
Water service calculation table for 2.5 Bath Unit. Includes static water pressure (54.0 PSI), pipe loss calculations, and available pressure (8.5 PSI).

2021 UPC APPENDIX A WATER SERVICE CALCULATIONS - 1 BATH UNIT

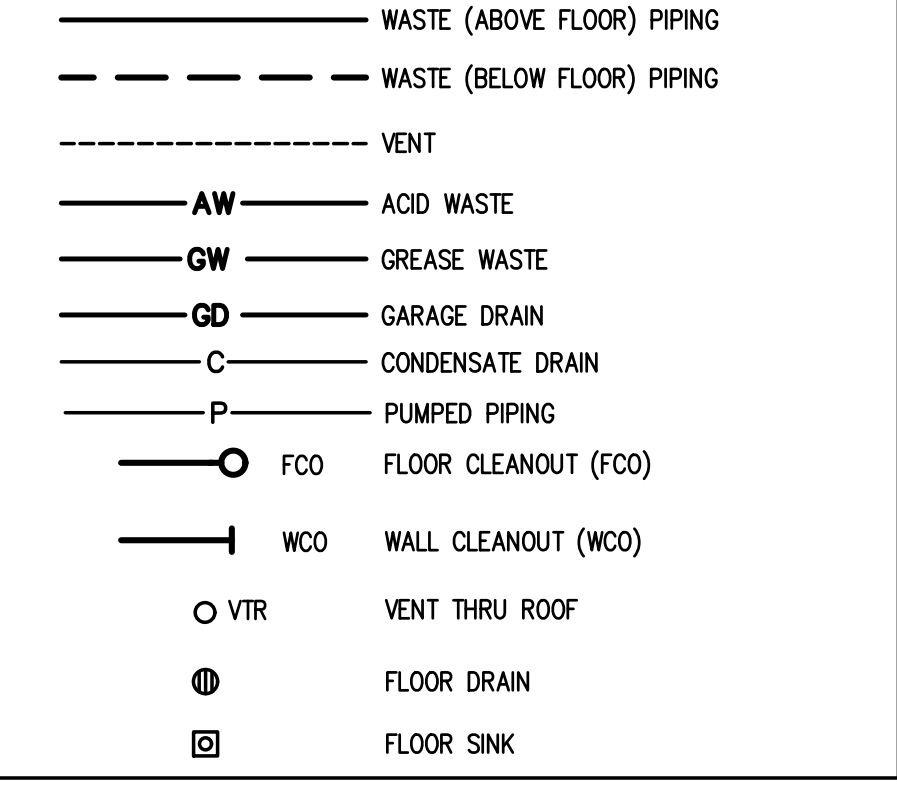
Water service calculation table for 1 Bath Unit. Includes static water pressure (54.0 PSI), pipe loss calculations, and available pressure (8.5 PSI).

PLUMBING LEGEND SYMBOL DESCRIPTION

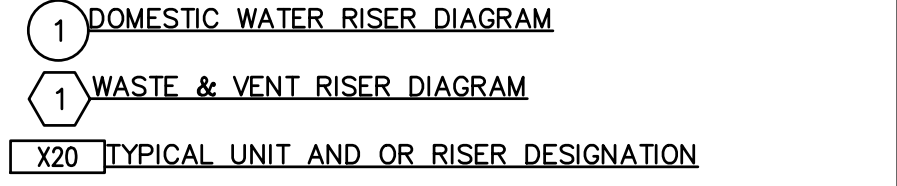
VALVES



DRAIN WASTE & VENT PIPING



PLUMBING RISER DIAGRAMS



REFERENCE CODES

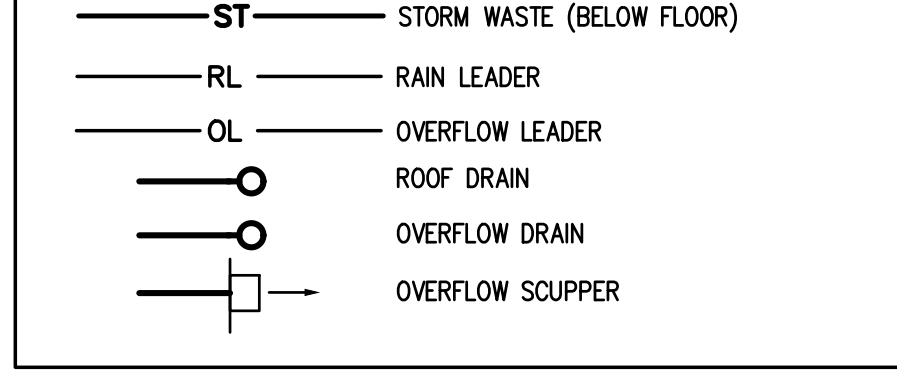
- IRC INTERNATIONAL RESIDENTIAL CODE - 2021
IMC INTERNATIONAL MECHANICAL CODE - 2021
UPC UNIFORM PLUMBING CODE - 2021
IFGC INTERNATIONAL FUEL GAS CODE - 2021
IFC INTERNATIONAL FIRE CODE - 2021
NEC NATIONAL ELECTRICAL CODE - 2017
WSECR WASHINGTON STATE ENERGY CODE RESIDENTIAL - 2021
ADA AMERICAN DISABILITY ACT STANDARDS - 2010
ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS - A17.1 - 2007 W/ 2008 ADDENDA SAFETY CODE FOR ELEVATORS AND ESCALATORS
NFPA NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS 13D, 13R, OR 13 (AS APPLICABLE) - 2016

BUILDING B PLUMBING SHEET INDEX

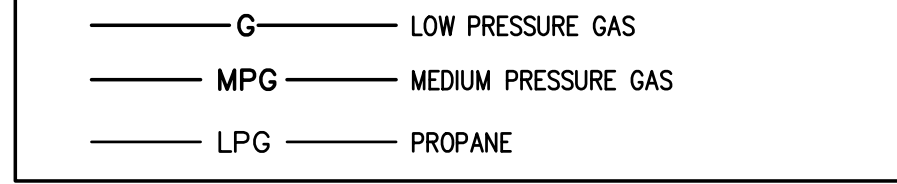
Sheet Index table with columns for Sheet Number and Sheet Title. Includes sheets for P0.01 (BLDG B PLUMBING NOTES & LEGENDS), P0.02 (BLDG B PLUMBING ABBREVIATIONS, CALCS, & SCHEDULES), P2.01 (BLDG B UNDERGROUND & MAIN LEVEL PLUMBING PLANS), P2.01 (BLDG B UPPER LEVEL & ROOF PLUMBING PLANS), and P3.00 (BLDG B PLUMBING DETAILS & DIAGRAMS).

PLUMBING LEGEND SYMBOL DESCRIPTION

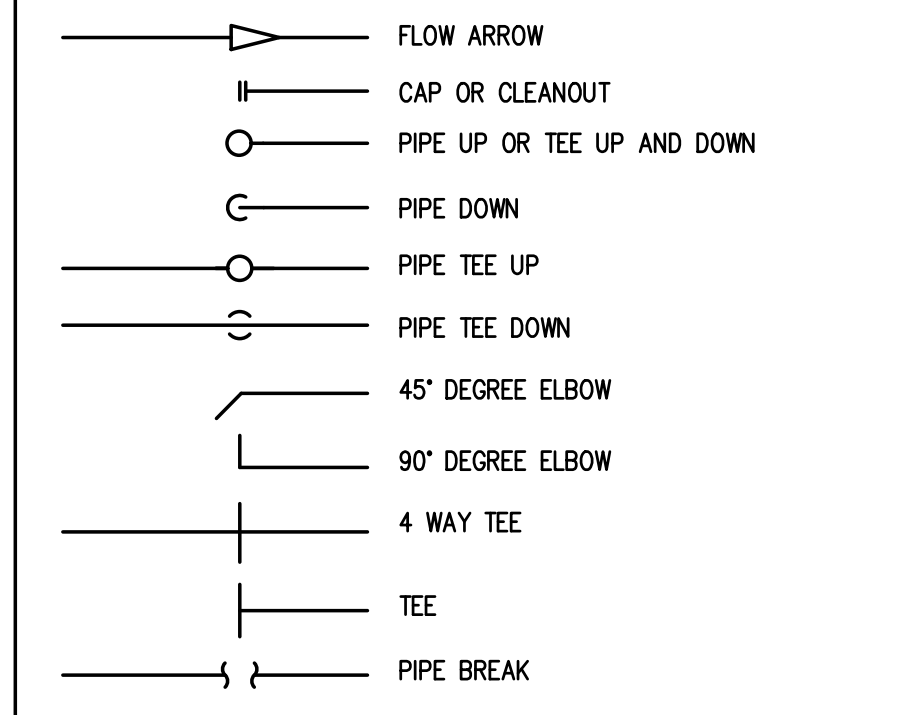
STORM PIPING SYSTEMS



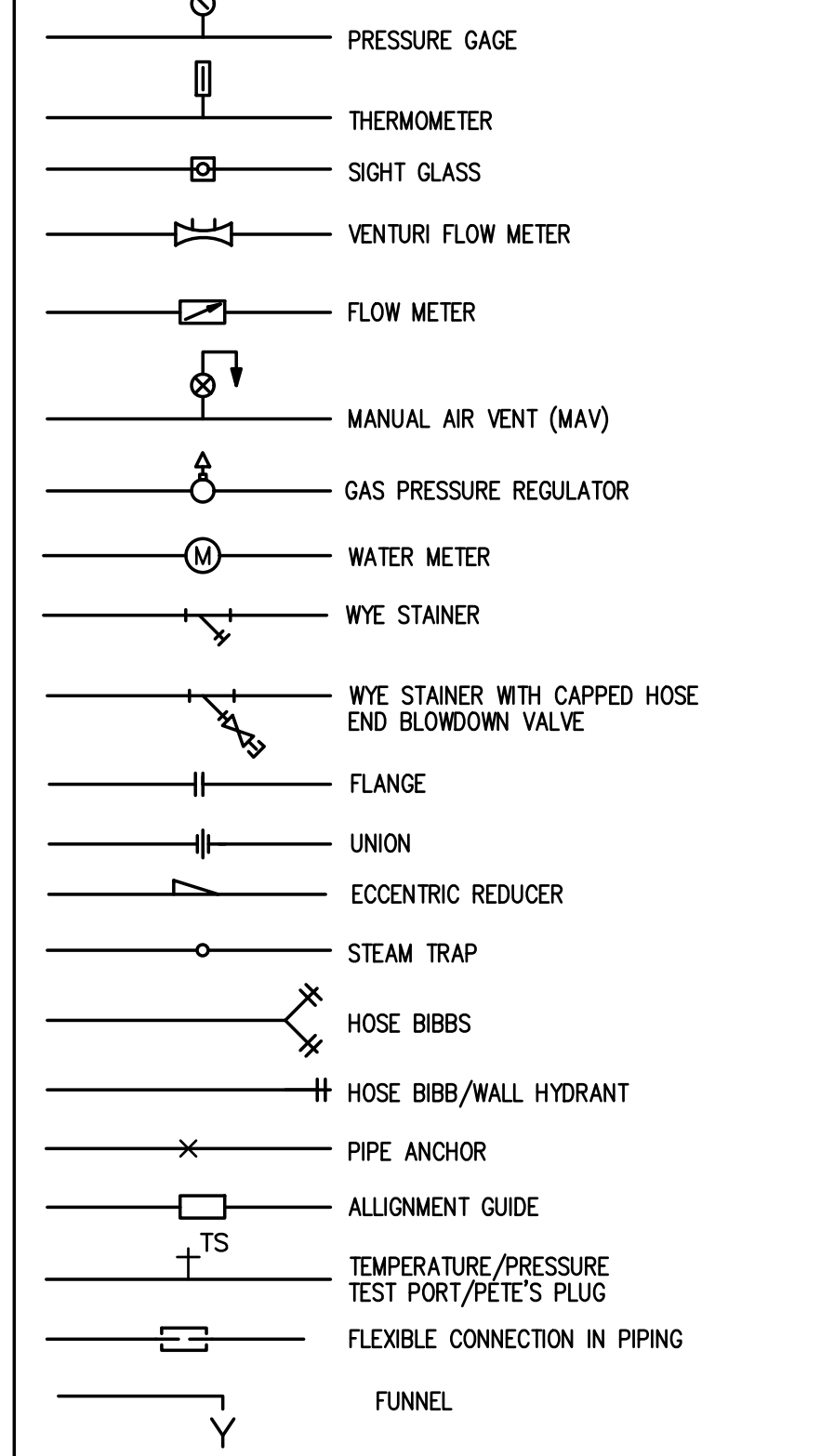
GAS PIPING SYSTEMS



PIPING

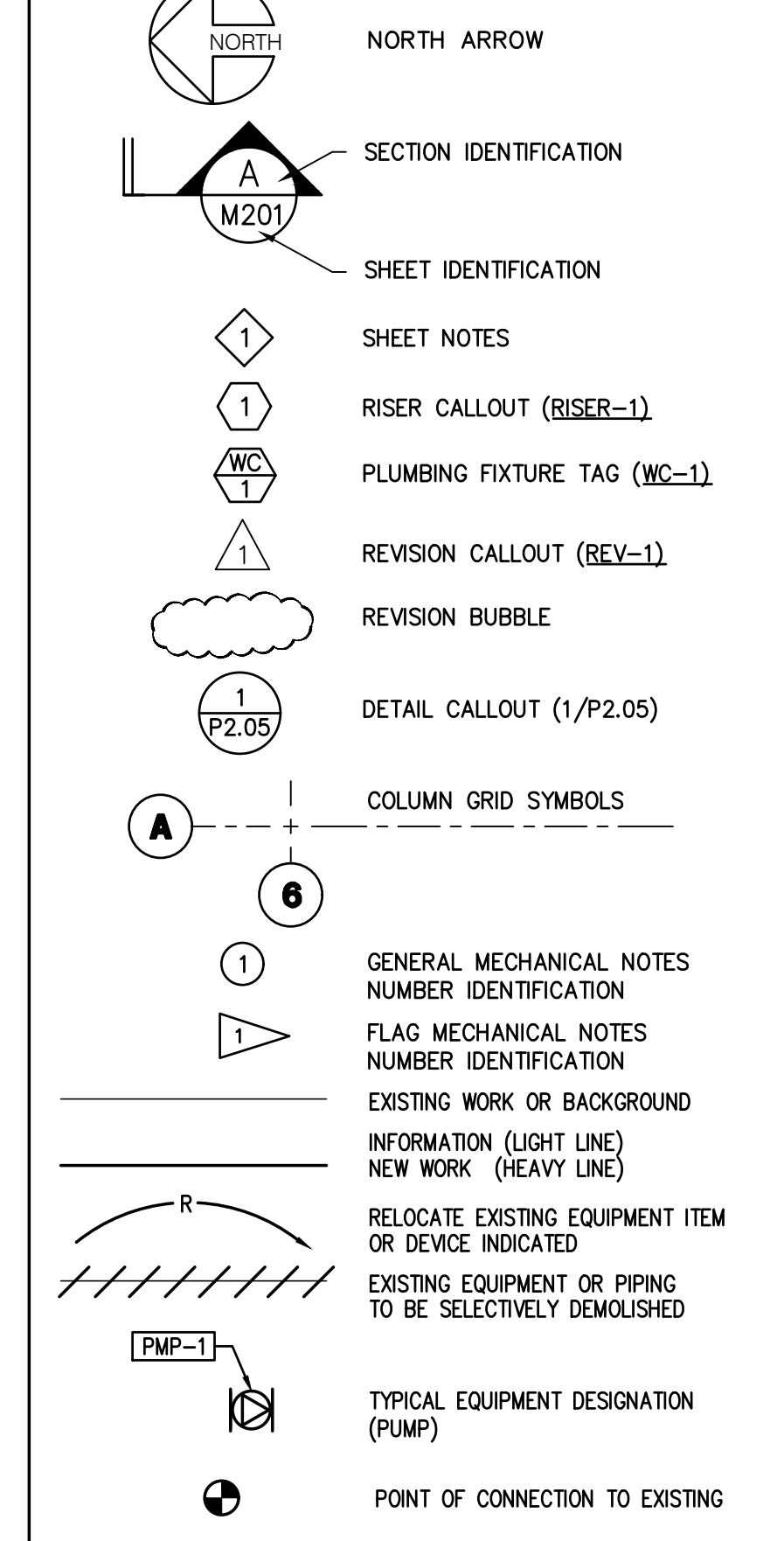


PIPING SPECIALTIES

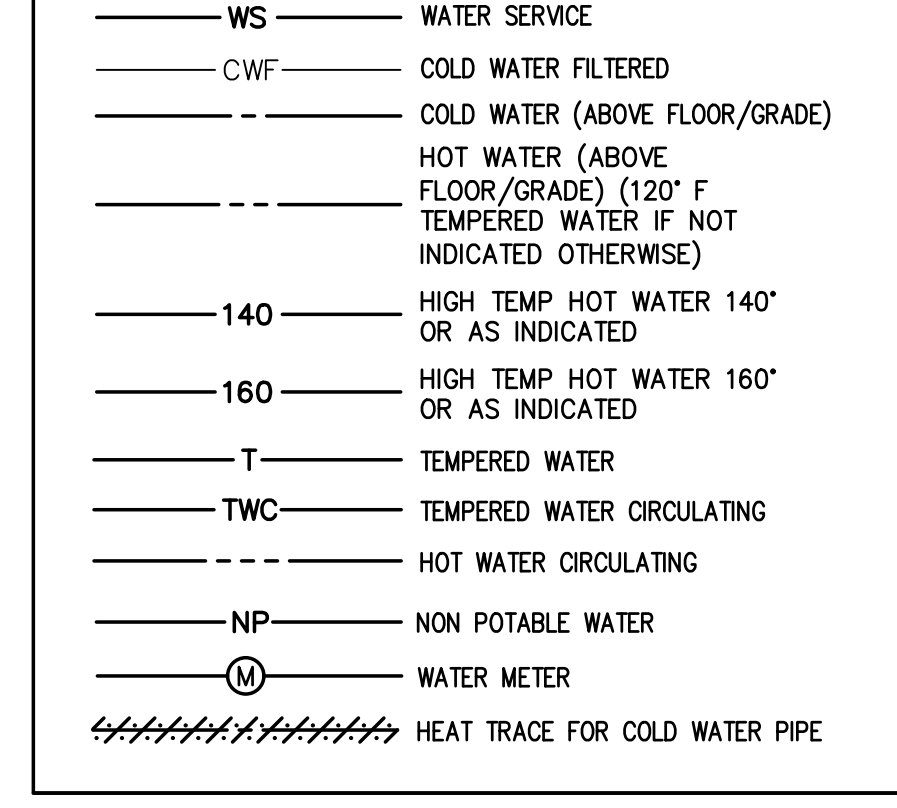


PLUMBING LEGEND SYMBOL DESCRIPTION

GENERAL



WATER PIPING SYSTEMS



City of Puyallup Development & Permitting Services ISSUED PERMIT. Includes Building, Planning, Engineering, Public Works, Fire, and Traffic icons.



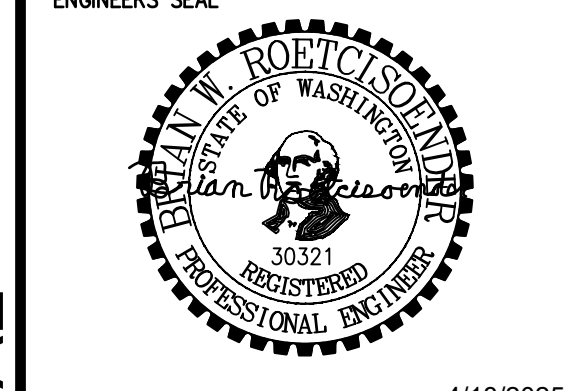
HV Engineering, Inc. Consulting Engineers. Hall Creek Office Park 6912 220th St. SW, Suite 303 Mountlake Terrace, WA 98043. Phone: (206) 706-9669 www.hvengineering.biz

Project 7TH AVE TOWNHOMES. Location 1200 7th Ave. SE Puyallup, WA 98371

Prepared For WC STUDIO

1522 6th Avenue #1 Tacoma, WA 98405 206-371-5152

Revision table with columns for NO., DATE, and REVISION. Includes Partner in Charge (BWR), Project Manager (BWR), Project Engineer (BWR), Project Team Members (BWR), and Check (BWR).



4/18/2025. TITLE BLDG B PLUMBING NOTES & LEGENDS. PROJECT NO. 2021-007. DATE APRIL 18, 2025. PROJECT NETWORK PATH.

SHEET NUMBER P0.01

01/28/2025 PERMIT RESUBMITTAL

REUSE OF DOCUMENTS and VERIFY SCALE. Includes text about document reuse and scale verification.



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Location
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Puyallup, WA 98371

Prepared For
WC STUDIO

1522 6th Avenue #1
Tacoma, WA 98405
206-371-5152

NO.	DATE	REVISION

PARTNER IN CHARGE

BWR
PROJECT MANAGER
BWR
PROJECT ENGINEER
BWR
PROJECT TEAM MEMBERS
BWR
CHECK
BWR

ENGINEERS SEAL



4/18/2025

TITLE
BLDG B UNDERGROUND & MAIN LEVEL PLUMBING

PROJECT NO. 2021-007
DATE APRIL 18, 2025
PROJECT NETWORK PATH

SHEET NUMBER

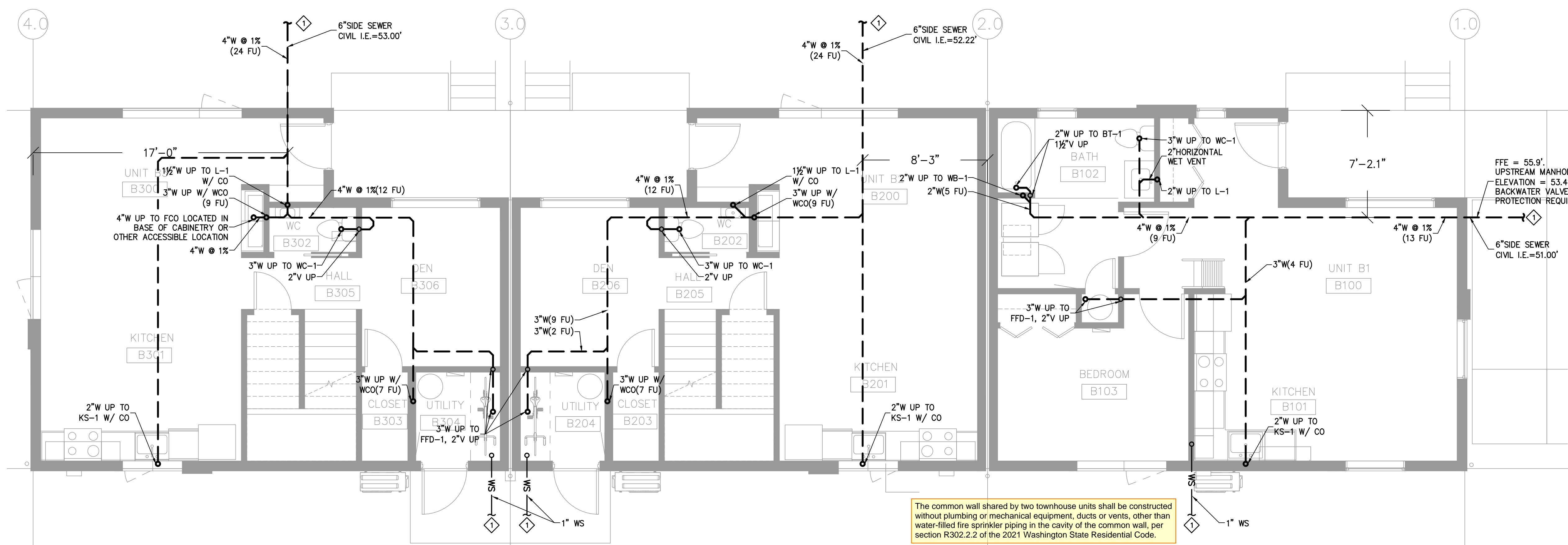
P2.00

GENERAL NOTES:

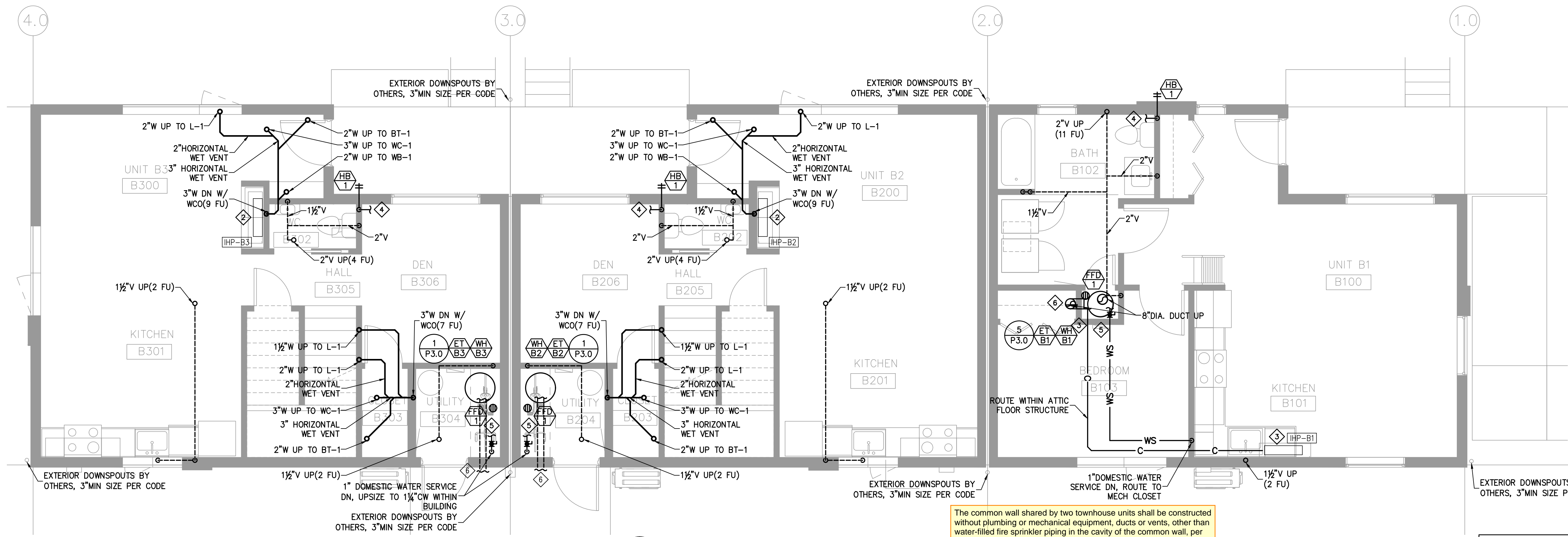
- AT TRANSITIONS FROM VERTICAL TO HORIZONTAL AT THE BASE OF A WASTE STACK PROVIDE TO PIPE DIAMETERS OF LENGTH BETWEEN ELBOW AND NEXT FIXTURE CONNECTION TO ABATE HYDRAULIC JUMP.
- UPSTREAM MH RIM ELEVATION = 53.41'. NO PLUMBING FIXTURES REQUIRE BACKWATER VALVE PROTECTION.

SHEET NOTES:

- COORDINATE FINAL CONNECTIONS WITH CIVIL DRAWINGS FIVE FEET OUTSIDE THE BUILDING FOUNDATION. PIPE SIZE, INVERT DEPTH, FIXTURE UNITS, AND DRAINED AREA AS NOTED. IDENTIFY ANY DISCREPANCIES TO ENGINEER BEFORE COMMENCING WORK.
- GRAVITY DRAIN 3/4" CONDENSATE LINE FROM INDOOR HEAT PUMP (SHOWN FOR REFERENCE) TO ADJACENT LAV TAILPIECE. DISCHARGE VIA DIRECT CONNECTION TO LAV TAILPIECE PER UPC 814.6.
- GRAVITY DRAIN 3/4" CONDENSATE LINE FROM INDOOR HEAT PUMP (SHOWN FOR REFERENCE) TO FFD-1 IN UTILITY ROOM & DISCHARGE VIA 2" AIR GAP PER UPC SECTION 814.
- 3/4" CW SUPPLY FOR HB-1, TEE OFF CW SUPPLY UPSTREAM OF PEX MANIFOLD.
- SEE DETAIL 1-P3.00 FOR DOMESTIC WATER DIAGRAM (5-P3.00 FOR ONE BATH UNIT). FIELD ROUTE 1/2" HW & CW HOMERUNS TO FIXTURE CONNECTIONS. MINIMIZE HW RUNNOUT LENGTHS.
- ROUTE INTAKE AND DISCHARGE DUCT TO EXTERIOR. THIS PROCESS AIRFLOW HEAT TRANSFER DUCT DOES NOT REQUIRE CLEARANCE TO OPERABLE OPENINGS. PROVIDE R7 INSULATION



UNDERGROUND PLUMBING PLAN
SCALE: 1/4" = 1'-0"



MAIN LEVEL PLUMBING PLAN
SCALE: 1/4" = 1'-0"

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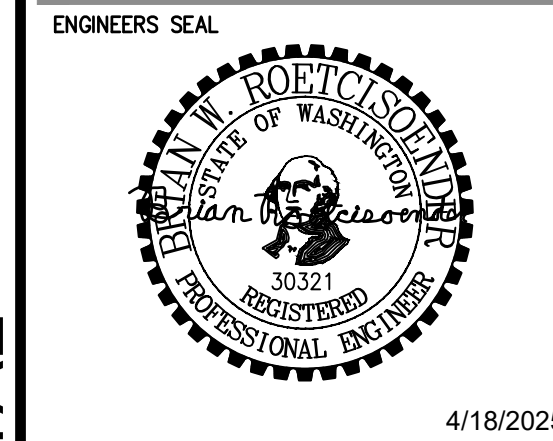
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WC STUDIO
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NO.	DATE	REVISION

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BWR
PROJECT ENGINEER
BWR
PROJECT TEAM MEMBERS
BWR
CHECK
BWR

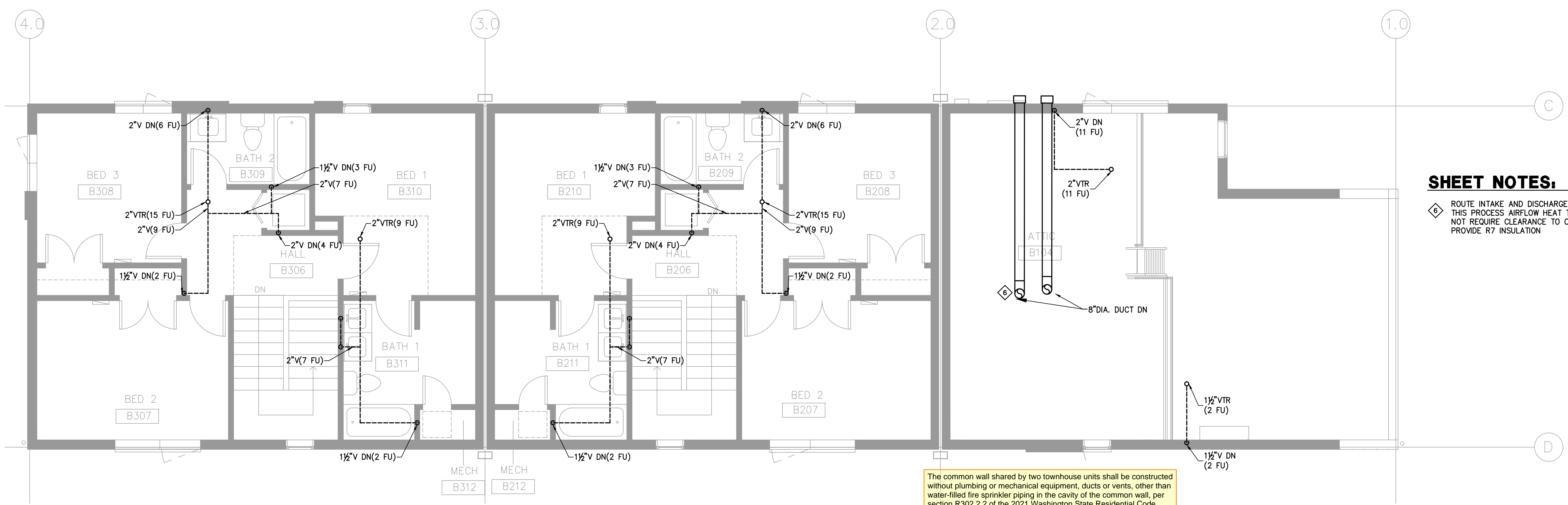


4/18/2025

TITLE
BLDG B UPPER LEVEL & ROOF PLUMBING PLANS

PROJECT NO. _____
DATE _____
PROJECT NETWORK PATH _____

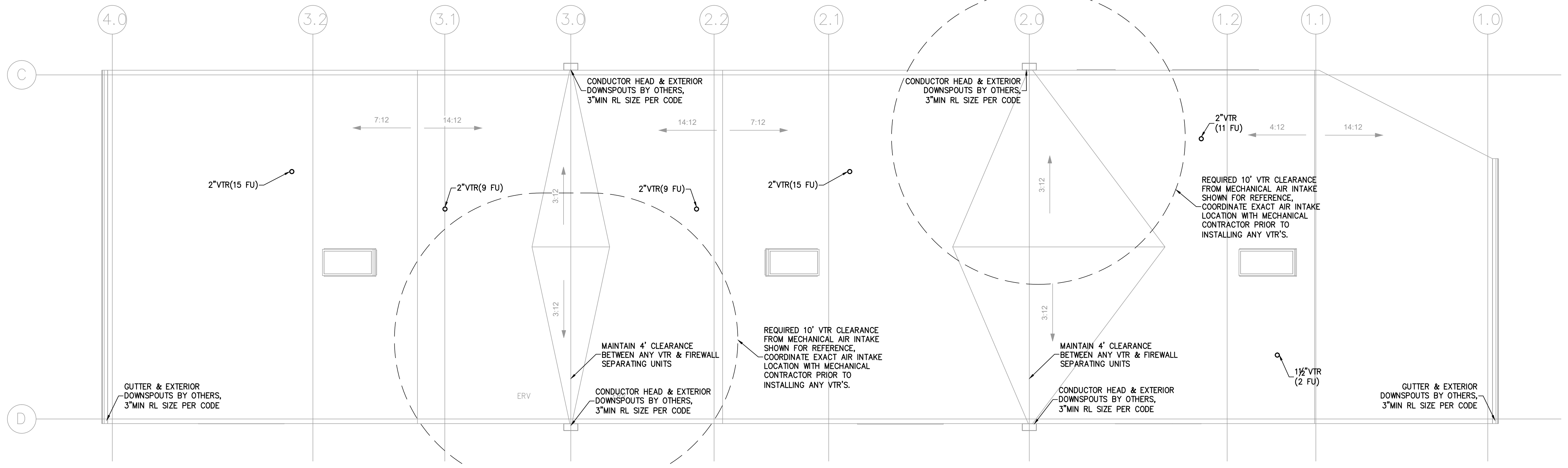
SHEET NUMBER
P2.01



SHEET NOTES:
6 ROUTE INTAKE AND DISCHARGE DUCT TO EXTERIOR. THIS PROCESS AIRFLOW HEAT TRANSFER DUCT DOES NOT REQUIRE CLEARANCE TO OPERABLE OPENINGS. PROVIDE R7 INSULATION

The common wall shared by two townhouse units shall be constructed without plumbing or mechanical equipment, ducts or vents, other than water-filled fire sprinkler piping in the cavity of the common wall, per section R302.2.2 of the 2021 Washington State Residential Code.

UPPER LEVEL PLUMBING PLAN
SCALE: 1/4" = 1'-0"



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

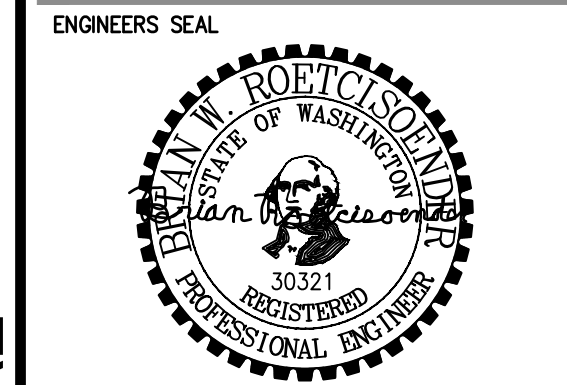
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BWR	_____
PROJECT ENGINEER	_____
BWR	_____
PROJECT TEAM MEMBERS	_____
BWR	_____
CHECK	_____
BWR	_____



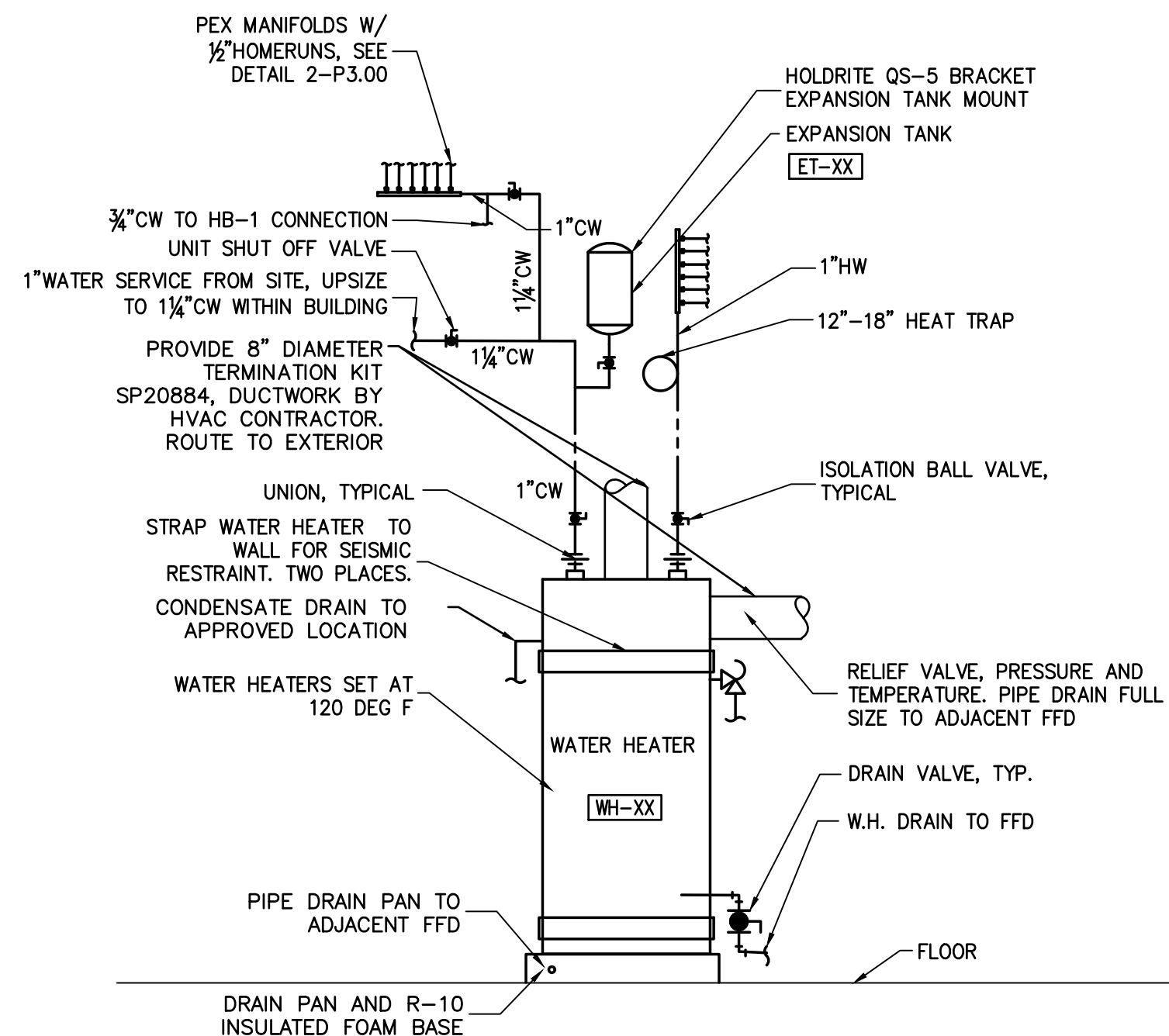
4/18/2025

TITLE
**BLDG B PLUMBING
DETAILS & DIAGRAMS**

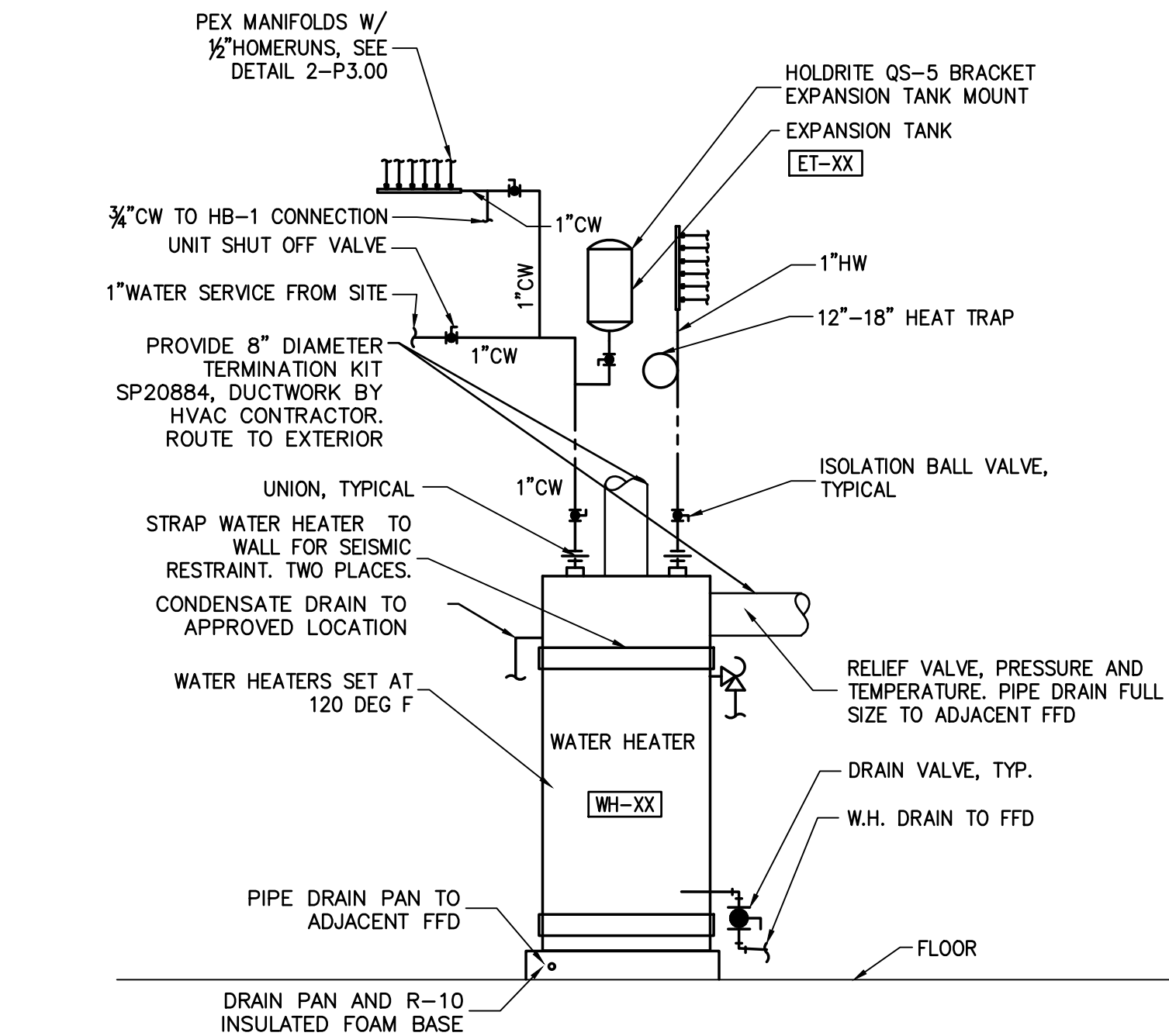
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2021-007
DATE
APRIL 18, 2025
PROJECT NETWORK PATH _____

SHEET NUMBER

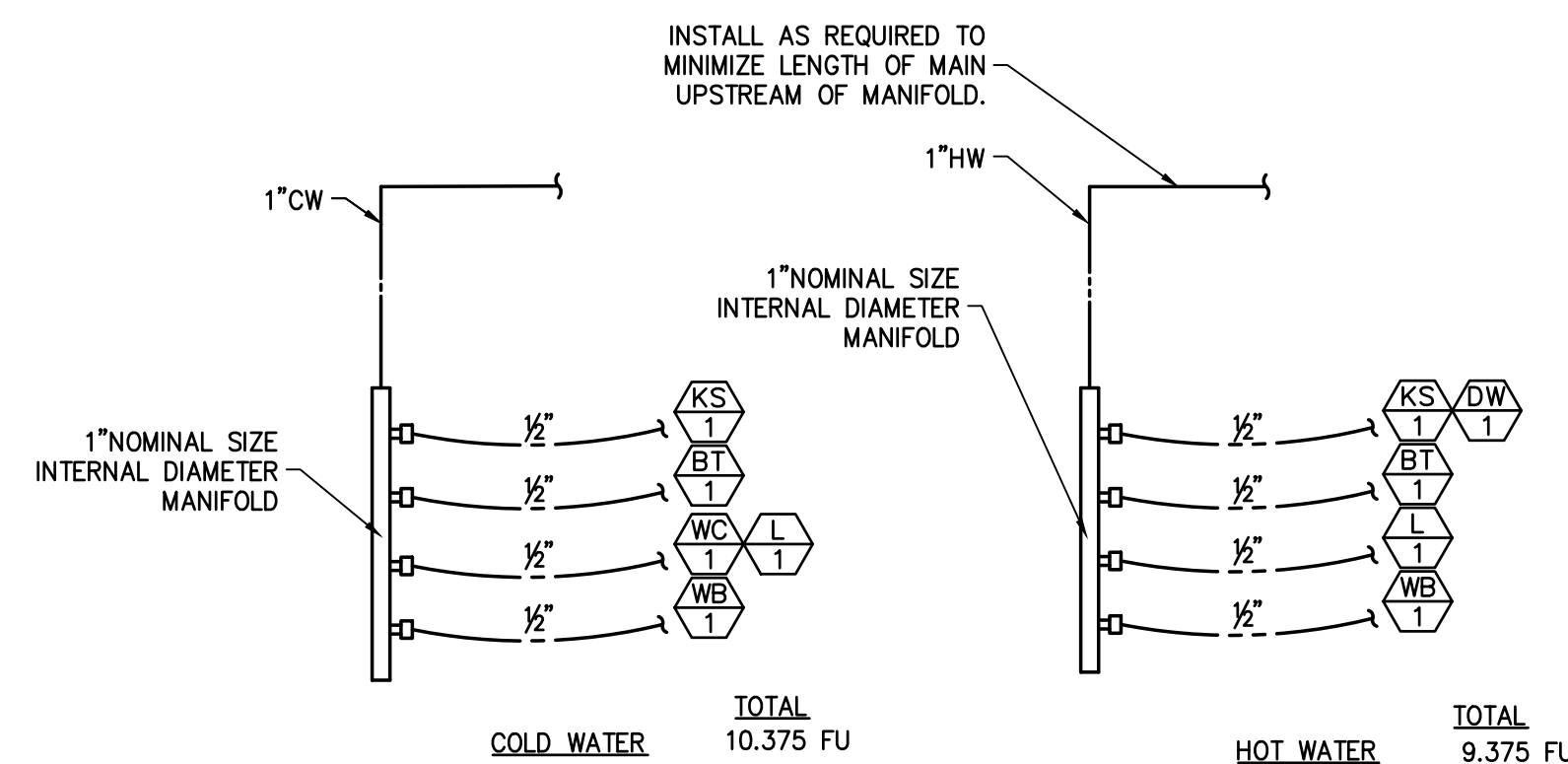
P3.00



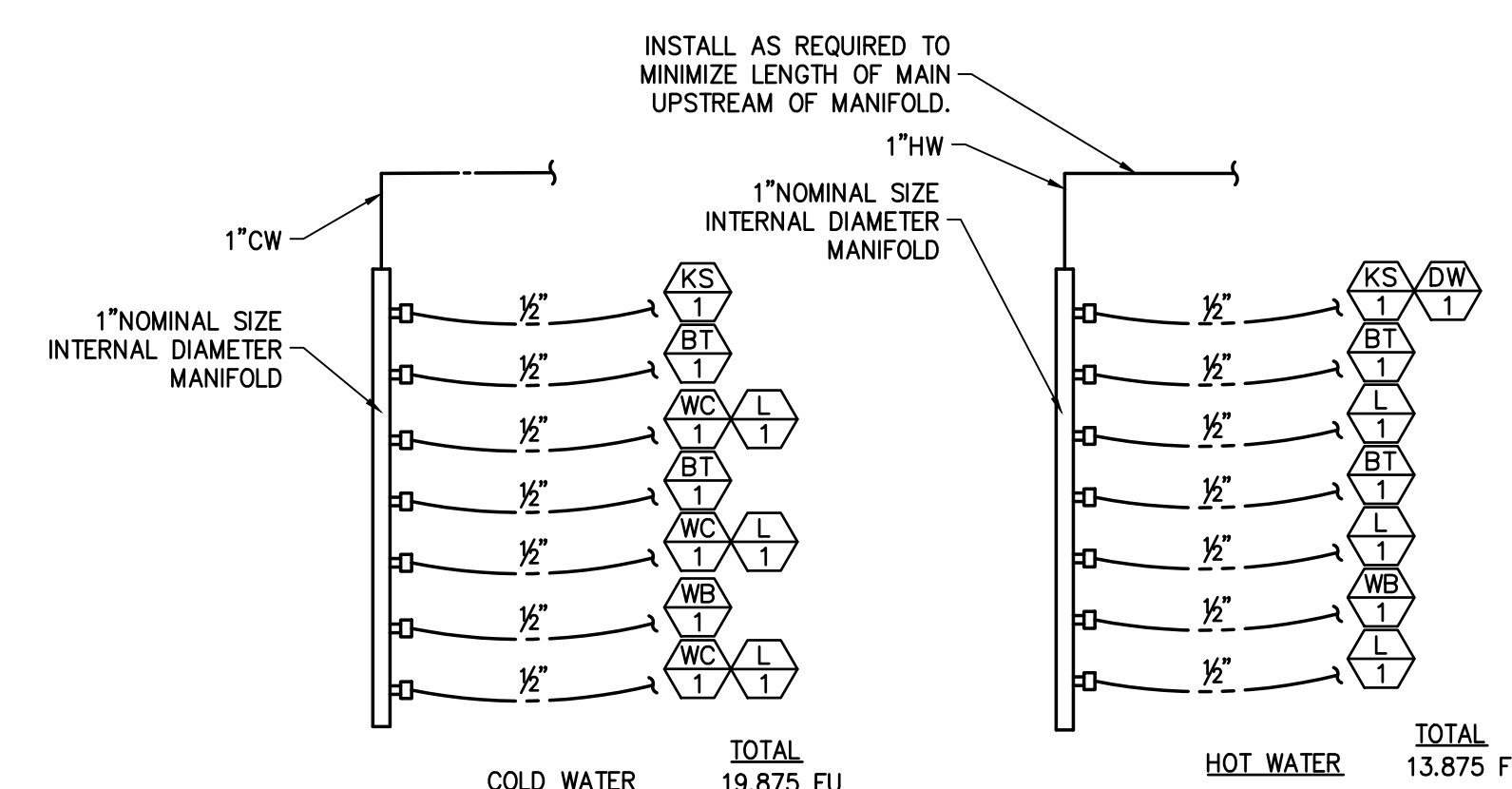
2.5 BATH HYBRID ELECTRIC WATER HEATER DIAGRAM
1 P3.00 SCALE: NONE



1 BATH HYBRID ELECTRIC WATER HEATER DIAGRAM
1 P3.00 SCALE: NONE



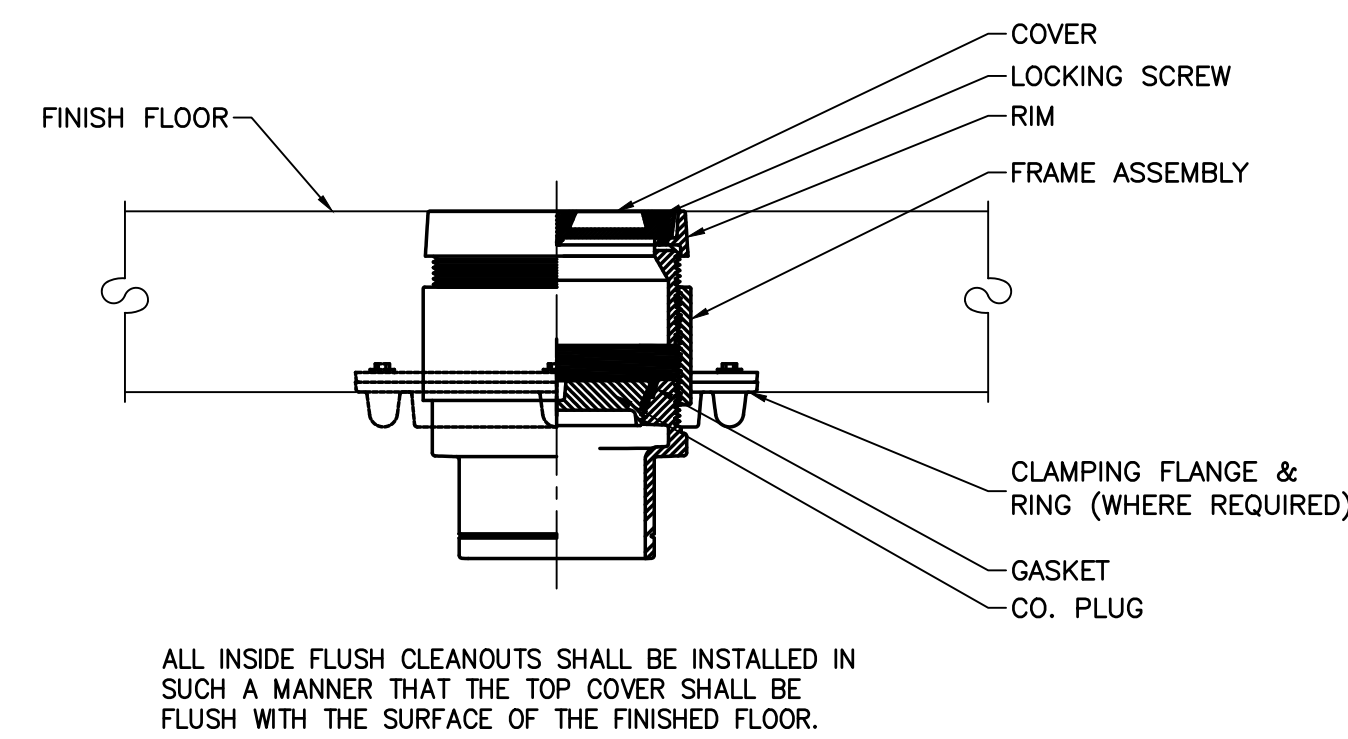
1 BATH UNIT (UNIT B1)



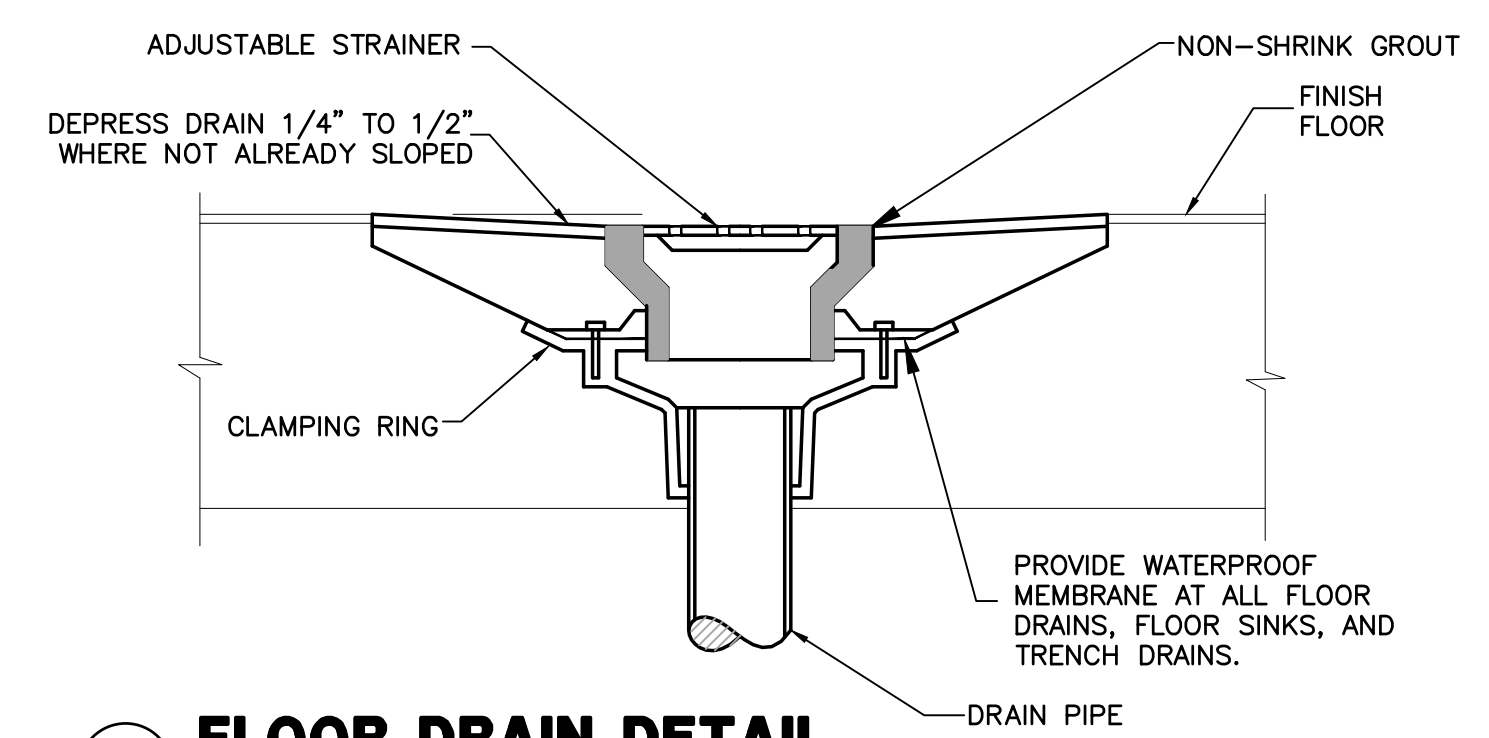
2.5 BATH UNIT (UNIT A1, A2, A3, B2, B3)

- NOTES:
1. SIZE PIPE PER DOMESTIC WATER SIZING CALCS ON DWG. P0.01.
 2. HW PIPING MAXIMUM LENGTH SHALL COMPLY WITH WSEC C404.3/R503.4.2

2 PEX MANIFOLD DETAIL
2 P3.00 SCALE: NONE



3 INTERIOR CLEANOUT DETAIL
3 P3.00 SCALE: NTS



4 FLOOR DRAIN DETAIL
4 P3.00 SCALE: NTS

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GENERAL HVAC NOTES

- THE FOLLOWING NOTES APPLY TO ALL MECHANICAL DRAWINGS. ADDITIONAL MECHANICAL NOTES MAY BE INDICATED ON EACH MECHANICAL DRAWING. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- INSTALLATION SHALL COMPLY WITH ALL GOVERNING CODES AND REGULATIONS (LOCAL AND STATE). NOTHING ON THE DRAWINGS OR SPECIFICATIONS SHALL BE CONSTRUED AS ALLOWING DEVIATION FROM THIS REQUIREMENT. IF A CONFLICT SHOULD OCCUR BETWEEN DRAWINGS AND REGULATIONS, THE REGULATIONS SHALL TAKE PRECEDENCE AND CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING OF SUCH CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION.
- REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR GENERAL CONSTRUCTION INCLUDING LOUVERS, CONCRETE EQUIPMENT PADS, FLASHING DETAILS, ETC.
- REFER TO ARCHITECTURAL DRAWING FOR ROOM ELEVATIONS. LOCATE MECHANICAL DEVICES SUCH AS TEMPERATURE SENSORS, HUMIDISTATS, PANELS, ETC. SO THAT THEY DO NOT CONFLICT WITH GENERAL CONSTRUCTION (WAINSCOT, DOOR HARDWARE, ETC.) NOR WITH ELECTRICAL SYSTEM (LIGHT SWITCHES, SPEAKERS, OUTLETS, ETC.). MOUNT THERMOSTATS 48" AFF UNO.
- MECHANICAL DRAWINGS SHOW APPROXIMATE LOCATIONS FOR GRILLES AND DIFFUSERS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF GRILLES, REGISTERS, DIFFUSERS, AND OTHER CEILING OR SURFACE MOUNTED DEVICES. INSTALL EQUIPMENT IN CONFORMANCE WITH ARCHITECTURAL FEATURES IN THE CENTER OF CEILING TILES, IN THE CENTER OF ROOMS, OR WHERE INDICATED ON ARCHITECTURAL DRAWINGS. WHERE EQUIPMENT IS NOT INDICATED ON ARCHITECTURAL DRAWINGS, OBTAIN DIRECTION FROM ARCHITECT PRIOR TO INSTALLATION.
- SEE ARCH. DRAWINGS FOR EXACT SIZE AND LOCATION OF LOUVERS. COORDINATE EXACT SIZE OF ATTACHED DUCTWORK/PLENUM AND/OR MOTORIZED DAMPERS WITH ARCH. DRAWINGS.
- GENERALLY DUCTWORK PLANNED TO BE TIGHT TO STRUCTURE WITH PIPING BELOW DUCTWORK AND BETWEEN LIGHT FIXTURES. ADJUST AS NECESSARY.
- COORDINATE LOCATIONS OF MECHANICAL EQUIPMENT AND DUCTWORK TO PROVIDE CLEARANCES OVER LIGHTING FIXTURES FOR REMOVAL AND SERVICE ACCESS DUE TO EQUIPMENT MAINTENANCE.
- ARRANGE HVAC EQUIPMENT SO THAT ACCESS CLEARANCES INDICATED BY DRAWINGS, REQUIRED BY CODES AND RECOMMENDED BY MANUFACTURER ARE PROVIDED. PROVIDE 42" CLEAR AT DISCONNECT SWITCH ON TERMINAL UNITS WITH ELECTRIC HEATING COIL.
- PROVIDE ACCESS PANELS/DOORS IN DUCTWORK AS INDICATED IN DIVISION 23 FOR INSPECTION AND MAINTENANCE FOR ALL SMOKE/FIRE DAMPERS.
- GENERAL CONTRACTOR TO PROVIDE ACCESS TO FIRE AND/OR COMBINATION FIRE/SMOKE DAMPERS THROUGH ACCESS DOORS IN HARD CEILINGS AND WALLS. WHERE ACCESS DOORS PENETRATE FIRE RATED SYSTEMS THEY SHALL BE RATED IN ACCORDANCE WITH IBC REQUIREMENTS.
- REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL ELECTRICAL CHARACTERISTICS OF MECHANICAL EQUIPMENT (VOLTAGES, ETC.).
- DUCTWORK AND PIPING INSTALLED ADJACENT TO ELECTRICAL CABLE TRAYS SHALL ALLOW MINIMUM ACCESS OF 6" IF RUNNING PARALLEL AND ABOVE CABLE TRAYS, ALLOW 18" TO THE SIDE OF CABLE TRAYS.
- ELECTRICAL CHARACTERISTICS OF LISTED EQUIPMENT SHALL BE VERIFIED BY CONTRACTOR DURING SUBMITTAL PROCESS. ANY ELECTRICAL CHARACTERISTICS THAT DEVIATE FROM THOSE LISTED SHALL BE IDENTIFIED BY THE CONTRACTOR, SUBMITTED TO THE ENGINEER FOR APPROVAL AND COORDINATED WITH DIVISION 26 ELECTRICAL PRIOR TO INSTALLATION OF EQUIPMENT AS REQUIRED TO PROPERLY SERVE EQUIPMENT.
- DRAWINGS ARE SCHEMATIC IN SOME AREAS AND MAY NOT SHOW OFFSETS WHICH MAY BE REQUIRED. PROVIDE OFFSETS AS REQUIRED AT NO ADDITIONAL COST.
- REFER TO PIPING DIAGRAMS AND DETAILS FOR REQUIRED FITTINGS, VALVES, ETC. FLOOR PLANS AND SECTIONS INDICATE EQUIPMENT LOCATIONS AND GENERAL PIPE ROUTING ONLY.
- DUCTS AND PIPES INDICATED WITHOUT DIMENSIONS SHALL BE SIZED PER PRECEDING UPSTREAM DUCT AND PIPE SECTIONS.
- DUCTWORK SIZES SHOWN ARE CLEAR INSIDE DIMENSION.
- PROVIDE FABRICATED STEEL MEMBER SUPPORTS AS REQUIRED BY MANUFACTURER'S INSTALLATION INSTRUCTIONS, AS INDICATED ON DRAWINGS, OR IN SPECIFICATIONS FOR INSTALLATION OF EQUIPMENT. REQUIRED STRUCTURAL MEMBERS, BOLTS, AND WELDS SHALL BE IN ACCORDANCE WITH AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL.
- IF REQUIRED FOR INSTALLATION OF PIPES, DUCTS, AND EQUIPMENT, PROVIDE ADDITIONAL STRUCTURAL MEMBERS BETWEEN COLUMNS, JOISTS, AND STRUCTURAL FRAME TO MEET SUPPORT REACTIONS (FORCES, MOMENTS, DEFLECTIONS). STRUCTURAL MEMBERS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER.
- DO NOT CORE DRILL OR DRILL THROUGH BEAMS, COLUMNS, AND SHEAR WALLS, UNLESS INDICATED ON STRUCTURAL DRAWINGS OR AS APPROVED BY THE STRUCTURAL ENGINEER.
- PROVIDE DUCT LINING FOR THE FOLLOWING DUCTWORK:
 - EXHAUST DUCTWORK FROM EACH EXHAUST GRILLE TO A POINT 10 FT UPSTREAM OF THE GRILLE (EXCEPT FOR KITCHEN AND SHOWER EXHAUST DUCTWORK).
 - ALL AIR TRANSFER DUCTS AND CEILING RELIEF GRILLES.
 - ALL EXHAUST DUCTWORK WITHIN 15' OF A FAN (EXCEPT KITCHEN AND SHOWER EXHAUST).
 - ALL SUPPLY AND RETURN DUCTWORK WITHIN 15' OF A FAN.
 - ALL MIXED AIR AND EXHAUST AIR PLENUMS. DO NOT LINE OUTDOOR AIR PLENUMS.
 - PLENUMS UPSTREAM OF RETURN FANS.
 - OTHER LOCATIONS WHERE NOTED ON DRAWINGS OR SPECIFIED.
- PROVIDE A VOLUME DAMPER FOR EACH SUPPLY BRANCH, RETURN BRANCH (DUCTED ONLY), & EXHAUST BRANCH WHERE THREE OR MORE OPENINGS ARE ASSOCIATED WITH THE BRANCH, AND ELSEWHERE AS NOTED ON DRAWINGS OR IN SPECIFICATIONS.
- PROVIDE CONICAL SPIN-IN FITTINGS FOR ALL 90 DEGREE ROUND DUCT BRANCHES FROM RECTANGULAR SUPPLY DUCTWORK. DO NOT USE STRAIGHT TEE FITTINGS.
- DUCTWORK STATIC PRESSURE AND SEAL CLASS, BASED UPON SMACNA:
- SEAL AND LEAK TEST DUCTWORK PER WSECR AND PER DIVISION 23 SPECIFICATIONS.
- BALANCE HVAC SYSTEM PER WSECR AND PER DIVISION 23 SPECIFICATIONS.
- COMMISSION HVAC SYSTEM PER WSECR AND PER DIVISION 23 SPECIFICATIONS.
- PROVIDE COMPLETION/RECORD DRAWINGS PER WSEC AND PER DIVISION 23 SPECIFICATIONS
- THERMOSTATS SHALL BE INTERLOCKED TO PREVENT SIMULTANEOUS HEATING AND COOLING PER WSEC.
- INSULATE DUCTWORK PER WSECR AND PER DIVISION 23 SPECIFICATIONS (WHICHEVER IS GREATER).

ABBREVIATIONS					
AAV	AIR ADMITTANCE VALVE	FH	FAHRENHEIT	MCC	MOTOR CONTROL CENTER
AC	AIR CONDITIONING	FD	FIRE DAMPER OR FLOOR DRAIN	MCA	MAXIMUM CIRCUIT AMPS
ABV	ABOVE	FF	FINISHED FLOOR	MAT	MIXED AIR TEMPERATURE
AD	ACCESS DOOR	FLGD	FLANGED	MAX	MAXIMUM
AV	ACID VENT	FLR	FLOOR	MECH	MECHANICAL
AW	ACID WASTE	FCO	FLOOR CLEAN OUT	MFR	MANUFACTURER
AFC	ABOVE FINISHED CEILING	FPM	FEET PER MINUTE	MED	MEDIUM
AFB	ABOVE FINISHED FLOOR	FLTR	FILTER	MH	MANHOLE
AFG	ABOVE FINISHED GRADE	FOF	FACE OF FLANGE	MIN	MINIMUM, MINUTE
AFUE	ANNUALIZED FUEL EFFICIENCY	FPI	FINS PER INCH	MISC	MISCELLANEOUS
AHU	AIR HANDLING UNIT	FSK	FOIL SKIRM KRAFT LINED	MV	MED VACUUM
AL	ALUMINUM	DUCT	DUCT (SPUNSTRAND)	N	NORTH, NEUTRAL
APPROX	APPROXIMATELY	FT	FEET, FOOT	NA	NOT APPLICABLE
ARCH	ARCHITECTURAL	FU	FIXTURE UNITS	NC	NORMALLY CLOSED
ATMOS	ATMOSPHERE	FV	FACE VELOCITY	NIC	NOT IN CONTRACT
BATT	BATTERY	FW	FEED WATER	NO	NUMBER OR NORMALLY OPEN
BDD	BACK DRAFT DAMPER	FPTU	FAN POWERED TERMINAL UNIT	NG	NATURAL GAS
BF	BLIND FLANGE	G	GAS	NTS	NOT TO SCALE
BFC	BELOW FINISHED CEILING	GALV	GALVANIZED	O2	OXYGEN
BHP	BRAKE HORSE POWER	GEN	GENERATOR	ONO	UNDERWRITER'S LABORATORY
BIF	BACKWARD INCLINED	GFI	GROUND FAULT CIRCUIT INTERRUPTER	OV	OVER CURRENT PROTECTION
BLDG	BUILDING	GR	GRILLE	OSA	OUTSIDE AIR
BOD	BOTTOM OF DUCT	GPM	GALLONS PER MINUTE	OAT	OUTSIDE AIR TEMPERATURE
BTU	BRITISH THERMAL UNIT	GV	GATE VALVE	OA	OUTSIDE AIR
BTUH	BRITISH THERMAL UNIT PER HOUR	GW	GRAY WATER (NON POTABLE)	OD	OUTSIDE DIMENSION
CFM	CUBIC FEET PER MINUTE	GWR	GLYCOL WATER RETURN	OPP	OPPOSITE
CHAR	CHARACTERISTICS	GWS	GLYCOL WATER SUPPLY	OV	OUTLET VELOCITY
CHEM	CHEMICAL INJECTION	HP	HORSE POWER	OC	OVER CURRENT PROTECTION
CHWS	CHILLED WATER SUPPLY	HPFS	HIGH POINT FINISHED SURFACE	P	PUMP
CHWR	CHILLED WATER RETURN	HR	HOUR	PD	PRESSURE DROP
CLG	CEILING	HTG	HEATING	PERF	PERFORATED
CO	CLEAN OUT	HT	HEIGHT	PF	PRE FILTER
CONC	CONCRETE	HVAC	HEATING, VENTILATION AND AIR CONDITIONING	PH	PHASE
CONN	CONNECT OR CONNECTION	HW	HOT WATER	PJ	PUSH ON JOINTS
CPLG	COUPLING	HWC	HOT WATER CIRCULATING	PLCS	PLACES
CS	CARBON STEEL	HWS	HOT WATER HEATING SUPPLY	PNL	PANEL
CSC	CARSEALED CLOSED	HWR	HOT WATER HEATING RETURN	POC	POINT OF CONNECTION
CSO	CARSEALED OPEN	IA	INSTRUMENT AIR	PRV	PRESSURE REDUCING VALVE
CV	CONSTANT VOLUME	ID	INSIDE DIMENSION	PS	PIPE SUPPORT
CW	COLD WATER	IE	INVERT ELEVATION	PSV	PRESSURE SAFETY (RELIEF) VALVE
CRD	CEILING RADIATION DAMPER	IH	INSULATION HOT	QTY	QUANTITY
DET	DETAIL	IN	INCH, INCHES	R	RELIEF
DFU	DRAINAGE FIXTURE UNITS	INFO	INFORMATION	RA	RETURN AIR
DIA	DIAMETER	INST	INSTRUMENT	RED	REQUIRED
DIM	DIMENSION	INSUL	INSULATE, INSULATION	RR	REMOVE AND RELOCATE
DISCH	DISCHARGE	INV	INVERT	RJ	RESTRAINED JOINTS
DI	DUCTILE IRON	IRR	IRRIGATION (NON POTABLE)	RET	RETURN
DMPR	DAMPER	IW	INDIRECT WASTE	RG	RETURN GRILLE
DN	DOWN	JAN	JANITOR	RPM	REVOLUTIONS PER MINUTE
DP	DIFFERENTIAL PRESSURE	KW	KILOWATT	RWL	RAINWATER LEADER
DR	DRAIN	KWH	KILOWATT HOUR	SS	SANITARY SEWER OR STAINLESS STEEL
DWG	DRAWING	LAT	LEAVING AIR TEMPERATURE	SA	SUPPLY AIR
EA	EACH	LB	POUND	SCHED	SCHEDULE
EAT	ENTERING AIR TEMPERATURE	LC	LOCKED CLOSED	SECT	SECTION
ECC	ECCENTRIC	LF	LINEAL FEET	SEER	SEASONAL ENERGY EFF. RATIO
ECON	ECONOMIZER	LL	LANDLORD	SVC	SERVICE
EER	ENERGY EFFICIENCY RATIO	LOC	LOCATION	SHT	SHEET
EF	EXHAUST FAN	LVC	LEAVING	SD	SMOKE DETECTOR
EFF	EFFICIENT, EFFICIENCY	LVG	LEAVING	SL	SOUND LINING
EG	EXHAUST GRILLE	MA	MED GAS	SV	SOLENOID VALVE
EL	ELEVATION	MATL	MATERIAL	SW	SOCKET WELD
ELEC	ELECTRICAL	MAX	MAXIMUM	STA	STATION
EQUIP	EQUIPMENT	MPG	MEDIUM PRESSURE GAS	STD	STANDARD
ET	ELECTRIC TRACED	MA	MIXED AIR	SF	SUPPLY FAN
EXIST, (E) EXISTING		MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR	SFD	SMOKE/FIRE DAMPER
EXH	EXHAUST				
EXT	EXTERIOR				

HVAC SYSTEM CONTROLS AND SEQUENCE OF OPERATION
 GENERAL: SEQUENCES OF OPERATION SHALL IN GENERAL BE ACCOMPLISHED USING MANUFACTURER'S STANDARD CONTROLS AND USING SCHEDULED CONTROL COMPONENTS. ALL TEMPERATURE SET POINTS SHALL BE ADJUSTABLE.

EXHAUST/TRANSFER/SUPPLY FAN SEQUENCE OF OPERATION
 BE-XX SHALL BE ENERGIZED BY A DIVISION 26 WALL SWITCH.
 TE-XXX SHALL BE ENERGIZED BY A DIVISION 26 WALL SWITCH.

ENERGY RECOVERY VENTILATOR SEQUENCE OF OPERATION
 ERV-XX SHALL RUN CONTINUOUSLY, CONTROLLED BY DIVISION 26. MOTORIZED DAMPERS (WHERE APPLICABLE) SHALL OPEN WHENEVER UNIT IS ENERGIZED. PROVIDE VBATHW 20-40-60 MIN. BOOST CONTROLLER FOR TEMPORARY INCREASED AIRFLOW.

HEAT PUMP SEQUENCE OF OPERATION
 OCCUPIED OPERATION:
 TYPICAL: IHP-XX FAN COILS SHALL OPERATE USING STANDARD MFR CONTROLS AND HARD WRED CONTROLLER. FAN SPEED SHALL ADJUST/MODULATE BASED ON LOAD REQUIREMENTS.

FANS SHALL ONLY OPERATE WHEN COOLING OR HEATING IS CALLED FOR. CORRESPONDING OUTDOOR HEAT PUMP UNIT (OHP-XX) SHALL BE ENERGIZED WHEN HEATING OR COOLING IS CALLED FOR.

UNOCCUPIED OPERATION: SAME AS ABOVE EXCEPT FOR TEMPERATURE SETBACK PER WSEC.

TERMINALS	
	CEILING DIFFUSER, TYPE 1 8" NECK BALANCE TO 350 CFM FLOW ARROWS SHOWN ONLY IF AIR FLOW IS NOT SYMMETRICAL
	RETURN GRILLE, TYPE 1 24x12 NECK BALANCE TO 350 CFM
	EXHAUST GRILLE, TYPE 1 24x12 NECK BALANCE TO 350 CFM TYPICAL OF 2

HVAC EQUIPMENT	
	UNIT VENTILATOR
	UNIT HEATER

DRAWING SYMBOLS	
	NORTH ARROW
	SECTION IDENTIFICATION
	SHEET IDENTIFICATION
	COLUMN GRID SYMBOLS
	GENERAL MECHANICAL NOTES NUMBER IDENTIFICATION
	FLAG MECHANICAL NOTES NUMBER IDENTIFICATION

CONTROLS	
	CARBON MONOXIDE (CO) SENSOR
	CO2 SENSOR
	OCCUPANCY (CO2) SENSOR
	ROOM THERMOSTAT (T)
	IONIZATION TYPE SMOKE DETECTOR

REFERENCE CODES	
IRC	INTERNATIONAL RESIDENTIAL CODE - 2021
IMC	INTERNATIONAL MECHANICAL CODE - 2021
UPC	UNIFORM PLUMBING CODE - 2021
IFGC	INTERNATIONAL FUEL GAS CODE - 2021
IFC	INTERNATIONAL FIRE CODE - 2021
NEC	NATIONAL ELECTRICAL CODE - 2017
WSECR	WASHINGTON STATE ENERGY CODE RESIDENTIAL 2021
ADA	AMERICAN DISABILITY ACT STANDARDS - 2010
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS - A17.1 - 2007 W/ 2008 ADDENDA SAFETY CODE FOR ELEVATORS AND ESCALATORS
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS 130, 13R, OR 13 (AS APPLICABLE) - 2016

BUILDING B HVAC SHEET INDEX	
Sheet Number	Sheet Title
M0.01	BLDG B HVAC NOTES & LEGENDS
M0.02	BLDG B HVAC ABBREVIATIONS, CALCS, & SCHEDULES
M2.00	BLDG B MAIN & UPPER LEVEL HVAC PLANS
M2.01	BLDG B ROOF HVAC PLAN
M3.00	BLDG B HVAC DETAILS & DIAGRAMS

MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
	EXISTING WORK OR BACKGROUND INFORMATION (LIGHT LINE)
	NEW WORK (HEAVY LINE)
	RELOCATE EXISTING EQUIPMENT ITEM OR DEVICE INDICATED
	EXISTING EQUIPMENT OR DUCTWORK TO BE SELECTIVELY DEMOLISHED
	TYPICAL EQUIPMENT DESIGNATION (EXHAUST FAN SHOWN)
	UNDER CUT DOOR 3/4"

DUCTWORK	
	DUCT (1ST FIGURE = SIDE SHOWN, 2ND FIGURE = SIDE NOT SHOWN)
	FLEXIBLE CONNECTION
	ACOUSTIC DUCT
	VOLUME DAMPER
	45° TAKE-OFF
	90° RECTANGULAR TAKE-OFF WITH 45° TAPER
	FLEXIBLE DUCT
	SUPPLY AIR DUCT TURNING UP OR TOWARD
	SUPPLY AIR DUCT TURNING DOWN OR AWAY
	RETURN OR EXHAUST AIR DUCT TURNING DOWN OR AWAY
	RETURN OR EXHAUST AIR DUCT TURNING UP OR AWAY
	ROUND DUCT TURNING UP OR TOWARD
	ROUND DUCT TURNING DOWN OR AWAY
	INCLINE RISE (R) OR DROP (D) IN DIRECTION OF ARROW
	ACCESS DOOR (AD) OR ACCESS PANEL (AP)
	ROUND DUCT OR PHASE INDICATOR
	BACKDRAFT DAMPER
	MOTORIZED DAMPER
	COMBINATION SMOKE/FIRE DAMPER
	CEILING DIFFUSER OR GRILLE
	RADIATION DAMPER
	FIRE DAMPER (FD) SMOKE DAMPER (SD)
	90° ELBOW, R/W OR R/D = 1.5
	SQUARE CORNER ELBOW WITH TURNING VANES
	90° CONICAL SPIN-IN
	TRANSITION OR REDUCER - NOTED FOR HEIGHT TOP OR JOB (FLAT OR BOTTOM) IF REQUIRED
	WYE FITTING
	90° DIVERGING RECTANGULAR TEE, EITHER RADIUS OR TURNING VANES

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



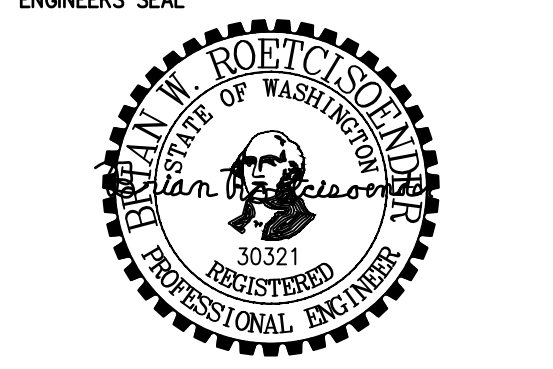
HV Engineering, Inc.
 Consulting Engineers
 Hall Creek Office Park
 6912 220th St. SW, Suite 303
 Mountlake Terrace, WA 98043
 Phone: (206) 706-9669
 www.hvengineering.biz

Project
7TH AVE TOWNHOMES
 Location
 1200 7th Ave. SE
 Puyallup, WA 98371

Prepared For
WC STUDIO
 1522 6th Avenue #1
 Tacoma, WA 98405
 206-371-5152

NO.	DATE	REVISION

PARTNER IN CHARGE
BWR
 PROJECT MANAGER
BWR
 PROJECT ENGINEER
BWR
 PROJECT TEAM MEMBERS
BWR
 CHECK
BWR

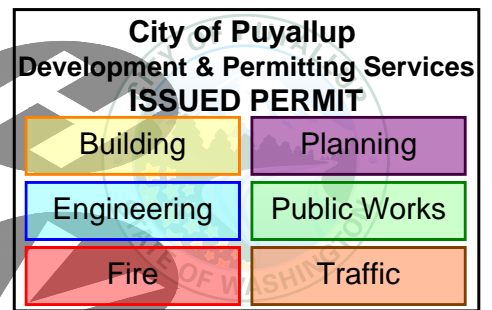


ENGINEERS SEAL
 01/28/2025
 TITLE
BLDG B HVAC NOTES & LEGENDS
 PROJECT NO.
 2021-007
 DATE
 JANUARY 28, 2025
 PROJECT NETWORK PATH

SHEET NUMBER
M0.01

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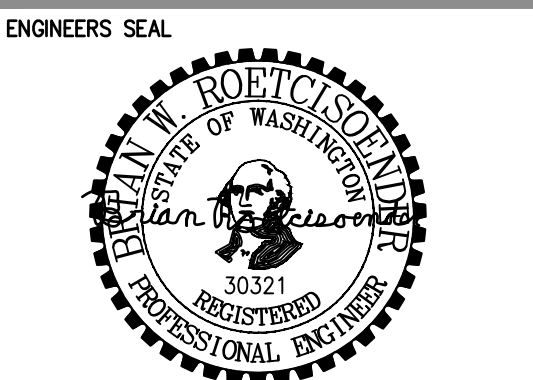
Project 7TH AVE TOWNHOMES Location 1200 7th Ave. SE Puyallup, WA 98371

Prepared For WC STUDIO

1522 6th Avenue #1 Tacoma, WA 98405 206-371-5152

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01/28/2025

TITLE BLDG B MAIN & UPPER LEVEL HVAC PLANS

PROJECT NO. 2021-007 DATE JANUARY 28, 2025 PROJECT NETWORK PATH

SHEET NUMBER

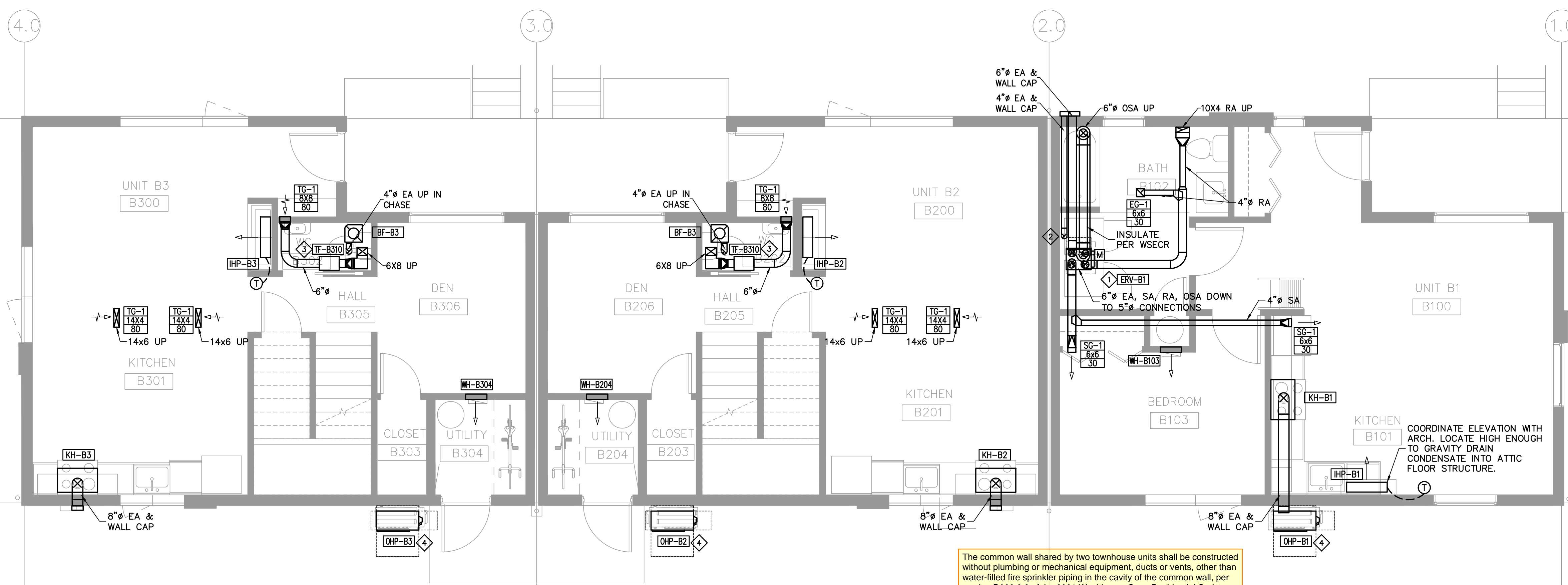
M2.00

GENERAL NOTES:

- 1. VENT TERMINATIONS INTO A COMMON SHEET METAL PLENUM AND DECORATIVE SHEET METAL HOOD PER ARCHITECT DETAILS. PROVIDE BIRD SCREEN AT ALL DISCHARGE EXCEPT THE CLOTHES DRYER VENT. EACH DISCHARGE PROVIDED WITH FLAPPER TERMINAL AT DISCHARGE PLENUM.
2. NO PIPING OR DUCTWORK TO BE PLACED WITHIN DEMISING, FIRE WALLS.
3. ALL REFRIGERANT AND CONDENSATE PIPING TO ROUTE CONCEALED WITHIN WALL AND CEILING CAVITY.

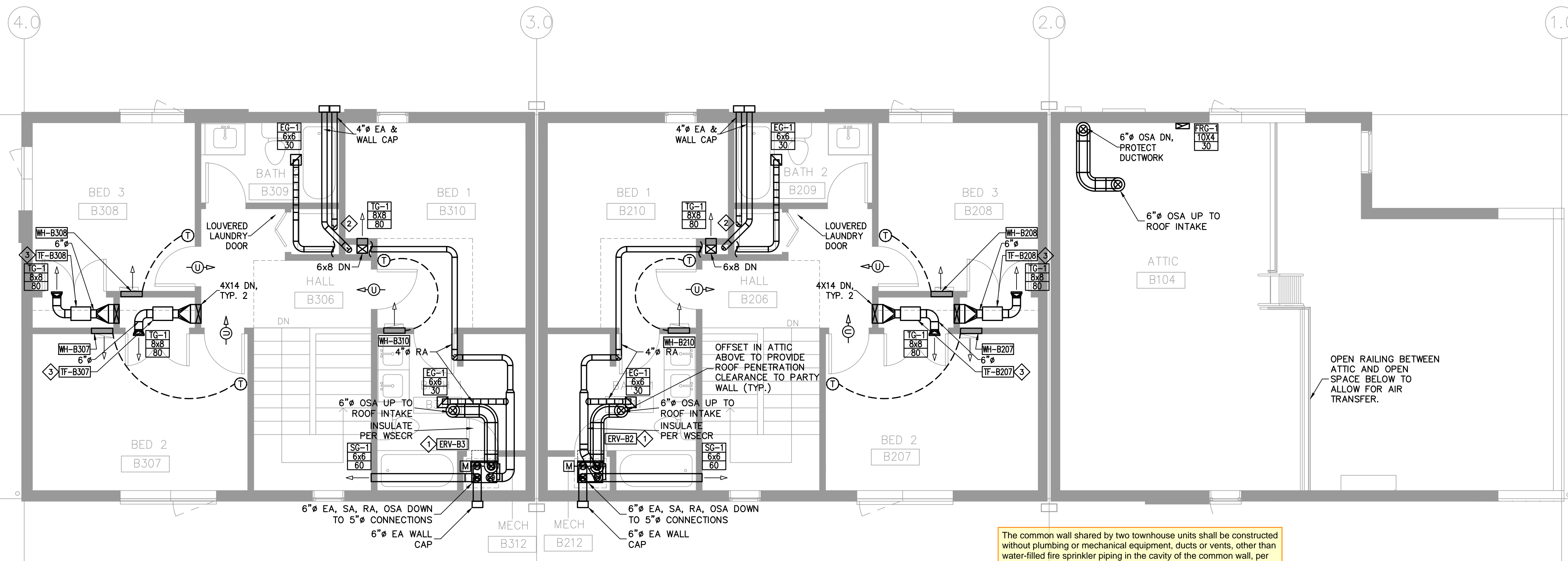
SHEET NOTES:

- 1. UNIT VENTILATION PROVIDED BY BALANCED HEAT RECOVERY VENTILATOR OVERSIZED BY 25% PER THE REQUIREMENTS OF M1505.4.3 FOR A "NOT DISTRIBUTED" SYSTEM.
2. 4" DOWN TO DRYER VENT CONNECTOR TERMINATE ~72" AFF.
3. PROVIDE ACCESS PANEL TO REMOVE TF FROM SOFFIT FOR MAINTENANCE.
4. FLASH RL/RS PIPING THROUGH WALL. SECURE OHP UNITS TO 4" CONCRETE HOUSEKEEPING PAD WITH RUBBER SHEAR ISOLATION PAD.



The common wall shared by two townhouse units shall be constructed without plumbing or mechanical equipment, ducts or vents, other than water-filled fire sprinkler piping in the cavity of the common wall, per section R302.2.2 of the 2021 Washington State Residential Code.

MAIN LEVEL HVAC PLAN SCALE: 1/4" = 1'-0"



The common wall shared by two townhouse units shall be constructed without plumbing or mechanical equipment, ducts or vents, other than water-filled fire sprinkler piping in the cavity of the common wall, per section R302.2.2 of the 2021 Washington State Residential Code.

UPPER LEVEL HVAC PLAN SCALE: 1/4" = 1'-0"

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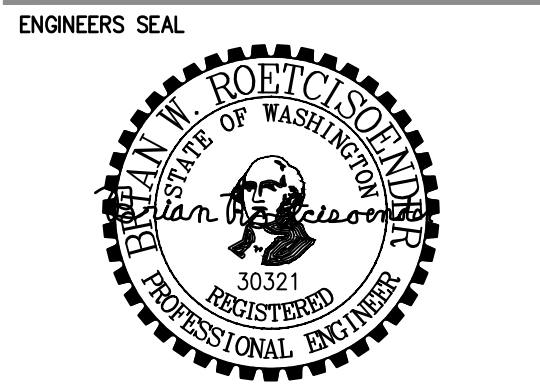
Project _____
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Prepared For _____
WC STUDIO

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BWR _____
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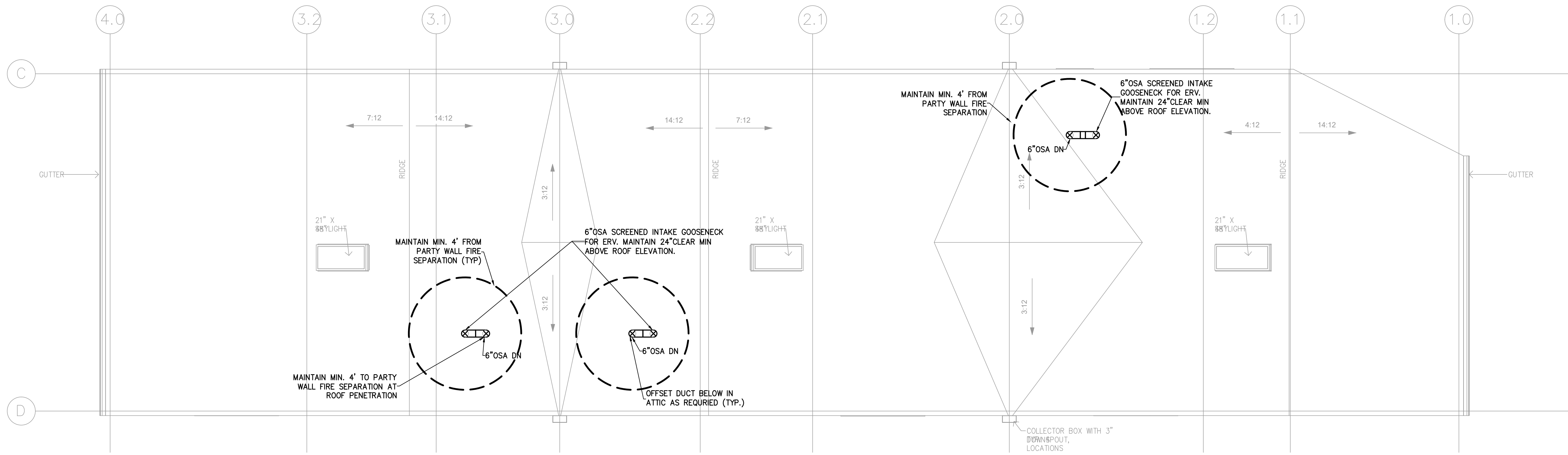


01/28/2025

TITLE
BLDG B ROOF HVAC PLAN

PROJECT NO. _____
2021-007
DATE
JANUARY 28, 2025
PROJECT NETWORK PATH _____

SHEET NUMBER
M2.01



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

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