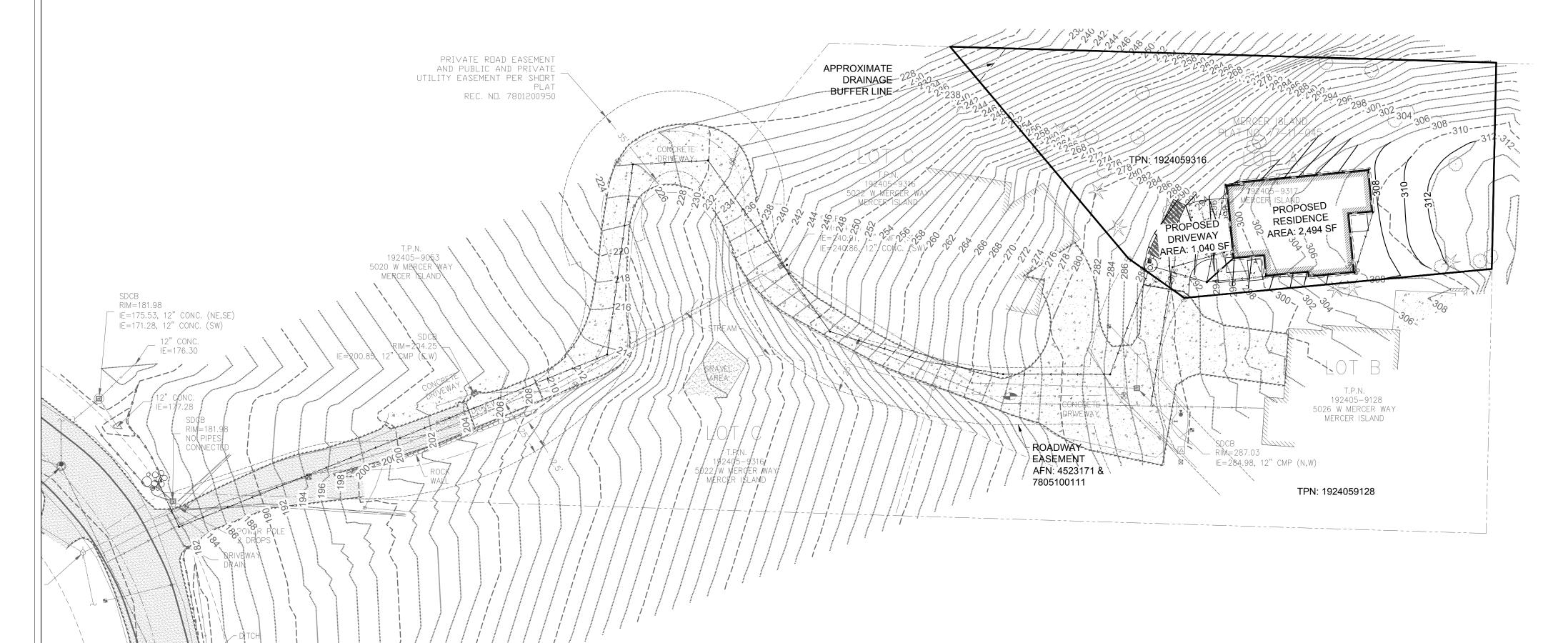
CHEN RESIDENCE

TPN: 1924059317



LEGAL DESCRIPTION

THAT PORTION OF THE S 1/2 OF THE NW 1.4 OF THE NW 1/4 OF SECTION 19, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M., IN KING COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHEAST CORNER OF SAID SUBDIVISION; THENCE N 01°16'04" E ALONG THE EASTERLY LINE THEREOF, A DISTANCE OF 450.00 FEET; THENCE N 88°10'41" W, A DISTANCE OF 200.00 FEET; THENCE N 01°16'04" E, A DISTANCE OF 116.00 FEET TO THE TRUE POINT OF BEGINNING; THENCE S 84°38'18" WA DISTANCE OF 135.06 FEET; THENCE N 54°46'00" W, A DISTANCE OF 30.00 FEET; THENCE N 40°04'12" W, A DISTANCE OF 121.05 FEET TO THE SOUTHERLY BOUNDARY OF MERHAVEN DIVISION NO. 3, AS RECORDED IN VOLUME 68 OF PLATS, PAGES 7 AND 8, RECORDS OF KING COUNTY, WASHINGTON; THENCE 86°17'59" E ALONG SAID SOUTHERLY BOUNDARY LINE, A DISTANCE OF 239.00 FEET; THENCE S 01°16'04" W, A DISTANCE OF 90.25 FEET TO THE TRUE POINT OF BEGINNING.

TOGETHER WITH AND SUBJECT TO A PRIVATE ROAD EASEMENT AND PUBLIC AND PRIVATE UTILITY EASEMENT OVER AND ACROSS THE FOLLOWING DESCRIBED PROPERTY: A STRIP OF LAND 25 FEET WIDE LYING 12.5 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTER LINE: THAT PORTION OF THE S 1.2 OF THE NW 1/4 OF THE NW 1/4 OF SECTION 19, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M., IN KING COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHEAST CORNER OF SAID SUBDIVISION; THENCE N 01°16'04" E ALONG THE EASTERLY LINE THEREOF, A DISTANCE OF 450.00 FEET; THENCE N 88°10'41" W, A DISTANCE OF 739.80 FEET TO THE TRUE POINT OF BEGINNING; THENCE N 71°25'41" E, A DISTANCE OF 25.87 FEET TO A TANGENT CURVE TO THE RIGHT HAVING A RADIUS OF 55.59 FEET; THENCE EASTERLY ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 20°23'38", AN ARC DISTANCE OF 19.79 FEET TO A REVERSE CURVE HAVING A RADIUS OF 135.00 FEET; THENCE NORTHEASTERLY ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 45°17'19", AN ARC DISTANCE OF 106.71 FEET TO A COMPOUND CURVE HAVING A RADIUS OF 55.00 FEET; THENCE NORTHERLY ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 65°57'00", AN ARC DISTANCE OF 63.31 FEET TO A POINT HEREINAFTER DESCRIBED AS POINT "A" AND TERMINUS OF SAID 25-FOOT STRIP OF LAND.

TOGETHER WITH A STRIP OF LAND 35 FEET WIDE LYING 17.5 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTER LINE: BEGINNING AT AFOREMENTIONED POINT "A", SAID POINT LYING ON A CURVE HAVING A RADIUS OF 45.00 FEET AND HAVING A RADIAL BEARING OF N 70°35'00" E; THENCE NORTHERLY ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 52°22'00", AN ARC DISTANCE OF 41.13 FEET TO A COMPOUND CURVE HAVING A RADIUS OF 30.00 FEET; THENCE EASTERLY AND SOUTHERLY ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 149°43,00", AN ARC DISTANCE OF 78.39 FEET TO A POINT HEREINAFTER DESCRIBED AS POINT "B", SAID POINT BEING THE TERMINUS OF SAID 35-FOOT STRIP OF LAND.

TOGETHER WITH A STRIP OF LAND 25 FEET WIDE LYING 12.5 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTER LINE: BEGINNING AT AFOREMENTIONED POINT "B", SAID POINT LYING ON A CURVE HAVING A RADIUS OF 72.00 FEET AND HAVING A RADIAL BEARING OF \$ 87°20'00" E; THENCE SOUTHERLY ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 77°59'00", AN ARC DISTANCE OF 98.00 FEET; THENCE \$ 75°19'00" E, A DISTANCE OF 30.00 FEET TO A TANGENT CURVE TO THE LEFT HAVING A RADIUS OF 127.00 FEET; THENCE EASTERLY ALONG SAID CURVE THROUGH A CENTER ANGLE OF 15°19'00", AN ARC DISTANCE OF 33.95 FEET; THENCE N 89°22'00" E, A DISTANCE OF 50.02 FEET TO A POINT HEREINAFTER DESCRIBED AS POINT "C", SAID POINT BEING THE TERMINUS OF SAID 25-FOOT STRIP OF LAND.

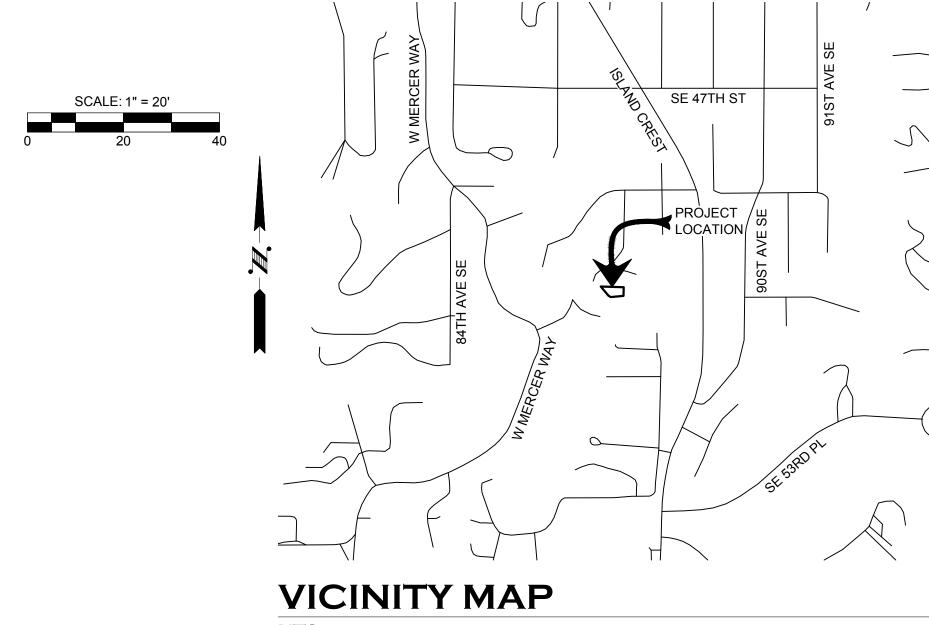
LEGAL DESCRIPTION CONTINUED

TOGETHER WITH A STRIP OF LAND 30 FEET WIDE LYING 15 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTER LINE: BEGINNING AT AFOREMENTIONED POINT "C", SAID POINT LYING ON A CURVE HAVING A RADIUS OF 78.00 FEET AND HAVING A RADIAL BEARING OF N 85°33'01" E; THENCE NORTHERLY ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 55°26'00", AN ARC DISTANCE OF 75.46 FEET TO A REVERSE CURVE HAVING A RADIUS OF 56.00 FEET; THENCE SOUTHERLY ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 36°40'43", AN ARC DISTANCE OF 35.85 FEET TO A POINT ON THE NORTHERLY LINE OF WESTAIR ESTATES, AS RECORDED IN VOLUME 104 OF PLATS, PAGES 18 AND 19, RECORDS OF KING COUNTY, WASHINGTON, SAID POINT BEING THE TERMINUS OF SAID EASEMENT.

TOGETHER WITH A PRIVATE AND PUBLIC ROAD EASEMENT AND PRIVATE AND PUBLIC UTILITY EASEMENT AS GRANTED BY INSTRUMENT RECORDED IN DECEMBER 29, 1954, UNDER AUDITOR'S FILE NUMBER 4523171 AND RESERVED BY INSTRUMENT RECORDED AUGUST 28, 1957, UNDER AUDITOR'S FILE NO. 4828502.

TOGETHER WITH A PUBLIC AND PRIVATE SANITARY SEWER EASEMENT OVER, UNDER AND ACROSS THE FOLLOWING DESCRIBED PROPERTY: A STRIP OF LAND 10 FEET WIDE LYING 5 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED PROPERTY: COMMENCING AT THE SOUTHEAST CORNER OF LOT 9 MERHAVEN DIVISION NO. 2, AS RECORDED IN VOLUME 67 OF PLATS, PAGES 27 AND 28, RECORDS OF KING COUNTY, WASHINGTON; THENCE N 88°17'59" W, A DISTANCE OF 0.08 FEET, THENCE S 42°17'56" W, A DISTANCE OF 45.00 FEET TO THE TRUE POINT OF BEGINNING; THENCE S 83°17'59" E, A DISTANCE OF 79.34 FEET, MORE OR LESS, TO THE WEST LINE OF THE PREVIOUSLY DESCRIBED 35-FOOT WIDE STRIP OF LAND.

TOGETHER WITH A PRIVATE WATER LINE EASEMENT OVER AND ACROSS THE FOLLOWING DESCRIBED PROPERTY: A STRIP OF LAND 15 FEET WIDE LYING 7.5 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED PROPERTY: THAT PORTION OF THE S 1/2 OF THE NW 1/4 OF THE NW 1/4 OF THE NW 1/4 OF SECTION 19, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M., IN KING COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTH EAST CORNER OF SDI SUBDIVISION; THENCE N 01°16'04" E ALONG THE EASTERLY LINE THEREOF, A DISTANCE OF 450.00 FEET; THENCE N 88°10'41" W, A DISTANCE OF 450.00 FEET; THENCE N 88°10'41" W, A DISTANCE OF 450.00 FEET; THENCE N 88°10'41" W, A DISTANCE OF 72.12 FEET TO THE EASTERLY LINE OF THE PREVIOUSLY DESCRIBED 30-FOOT STRIP OF LAND.



LEGEND

	EXISTING	PROPOSED
SUBJECT PROPERTY LINE		-
ADJACENT LOT LINE		
HABITAT BUFFER LINE	$-\cdot-\cdot-\cdot-\cdot-\cdot-$	
WETLAND BUFFER LINE	$-\cdot-\cdot-\cdot-\cdot-\cdot-$	
EASEMENT LINE		
RIGHT-OF-WAY LINE		
CENTER LINE		
CONTOUR, MAJOR		1 60
CONTOUR, MINOR	158	 158
CONIFEROUS TREE	*	*
DECIDUOUS TREE		
STREET SIGN		ф.
POWER LINE	——————————————————————————————————————	———— UGP ———— UGP —
OVERHEAD POWER LINE	OHP	OHP OHP
POWER POLE	——————————————————————————————————————	——————————————————————————————————————
GUY WIRE	←	\leftarrow
POWER VAULT	□ _P	□ _P
STREET LIGHT	——————————————————————————————————————	₩ <u></u> %
NATURAL GAS LINE		
TELEPHONE LINE	ттт	ттт_
TELEPHONE MANHOLE	\bigcirc_{T}	⊙T
TELEPHONE PEDESTAL	υŢ	□T
CABLE LINE	CTV	сту сту
CABLE PEDESTAL	⊡T∨	□TV
STORM MAIN LINE	→ SD → SD —	→ SD → SI
FOOTING DRAIN LINE	FDFD	FDFD
ROOF DRAIN LINE	\longrightarrow RD \longrightarrow RD \longrightarrow	——→ RD ——→ RI
CATCH BASIN	CB	
TYPE I CATCH BASIN	\bigcirc \mathbb{D}	
YARD DRAIN	O^{YD}	⊚ YD
DOWNSPOUT	ODS	DS
WATER MAIN LINE	ww	ww
WATER METER	■WM	•
BLOWOFF VALVE FIRE HYDF		∑ BO
GATE VALVE	⊎	■
SEWER MANHOLE		
CLEANOUT	CO	•co
SEWER MAIN LINE	ssss	ssss
CONCRETE		

451 DUVALL AVE NE, SUITE 115 RENTON, WA 98059

VERTICAL DATUM

PROJECT INFO

ATERA HOMES, LLC

NAVD-88

PARCEL NUMBER

TPN: 1924059317

BUILDING AREA

OT SIZE:	19,343 SF
OOTPRINT:	2,188 SF
ROOF:	2,494 SF
DRIVEWAY/ PARKING:	1,040 SF
SIDEWALK/PORCH:	170 SF
FOTAL COVERAGE:	3,704 SF
	OR 19.1%

CONTRACTOR AS-BUILT:

THE CONTRACTOR SHALL MAINTAIN ONE SET OF THE CONTRACT DRAWINGS THAT SHALL INCLUDE, CLEARLY AND LEGIBLY MARKED, ANY ALTERATIONS OR LOCATIONS OF UNDERGROUND UTILITIES ENCOUNTERED DURING PROGRESS OF THIS PROJECT, AND ANY ALTERATIONS MADE TO THE FACILITIES BEING INSTALLED. SAID DRAWINGS SHALL BE MARKED "AS-BUILT" AND SHALL BE SUBMITTED TO THE PROJECT ENGINEER UPON COMPLETION OF THE PROJECT.

CONSTRUCTION STAKING:

THIS PROJECT MUST BE STAKED PRIOR TO CONSTRUCTION BY THE DESIGN ENGINEER OR BY A LICENSED LAND SURVEYOR.

THIS DRAWING DOES NOT REPRESENT A RECORD DOCUMENT UNLESS CERTIFIED BY THE LAND DEVELOPER'S INC.

ANY ALTERATIONS TO THE DESIGN SHOWN HERON MUST BE REVIEWED AND APPROVED BY THE LAND DEVELOPER'S, INC

TOPOGRAPHIC NOTE:

ASPHALT PAVEMENT

POROUS ASPHALT

LANDSCAPING

GRAVEL

THE EXISTING TOPOGRAPHIC DATA SHOWN ON THESE DRAWINGS HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE LAND DEVELOPER'S, INC. CANNOT ENSURE ITS ACCURACY AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OF THAT INFORMATION OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.

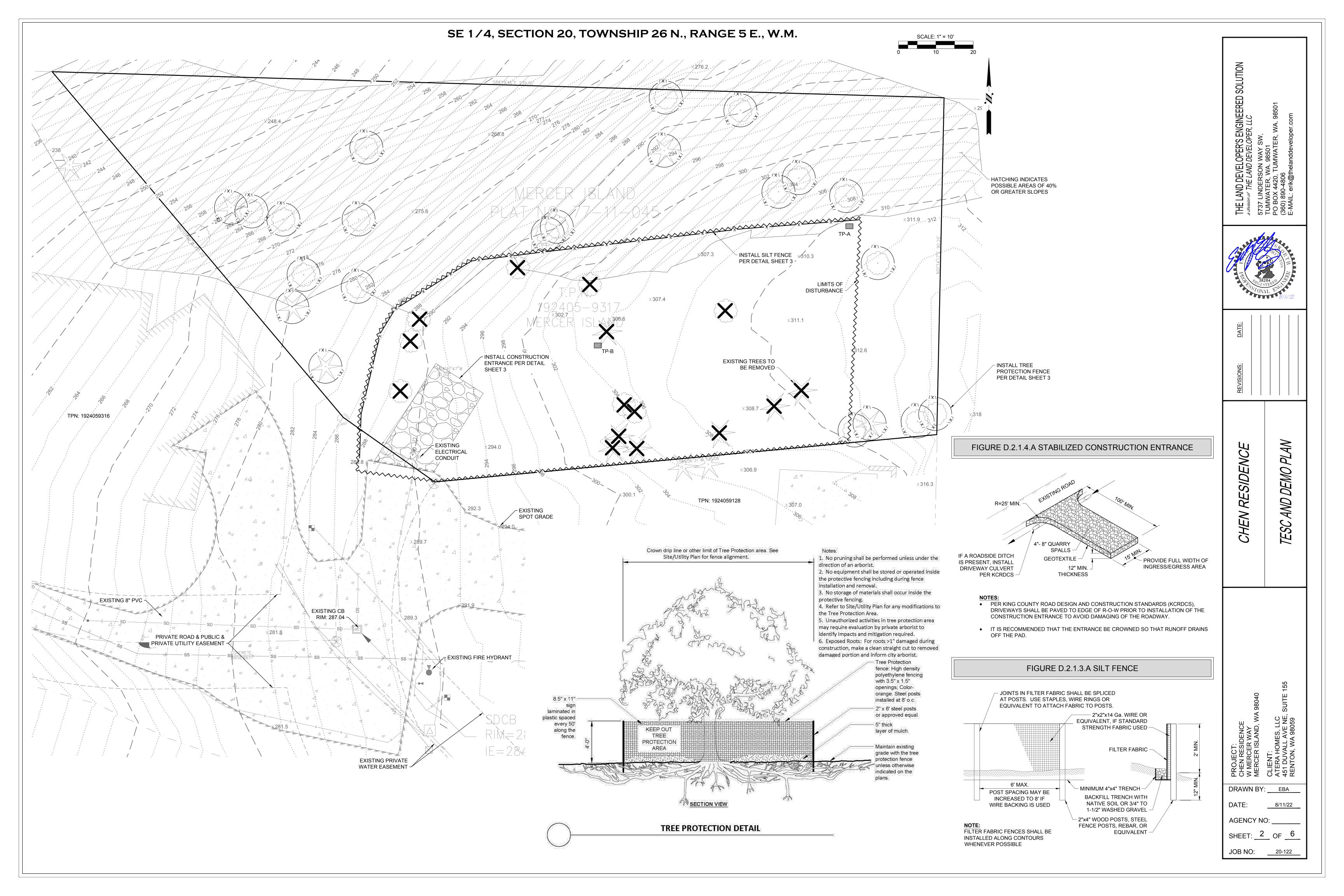
NOTE:

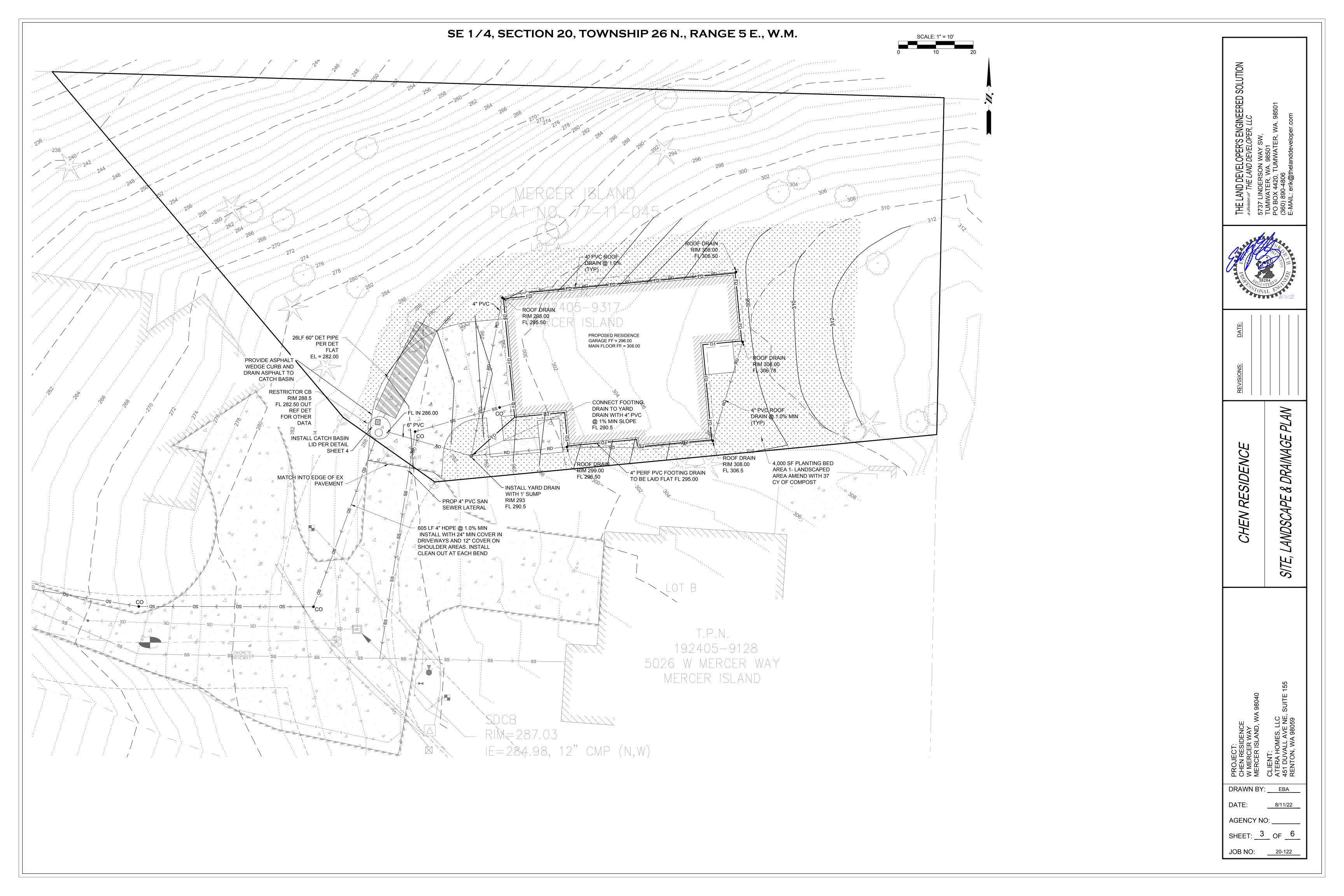
THE CONTRACTOR SHALL BE FULLY
RESPONSIBLE FOR THE LOCATION
AND PROTECTION OF ALL EXISTING
UTILITIES. THE CONTRACTOR SHALL
VERIFY ALL UTILITY LOCATIONS PRIOR
TO CONSTRUCTION BY CALLING THE
UNDERGROUND LOCATE LINE AT
800-824-5555 A MINIMUM OF 48 HOURS
PRIOR TO ANY EXCAVATION

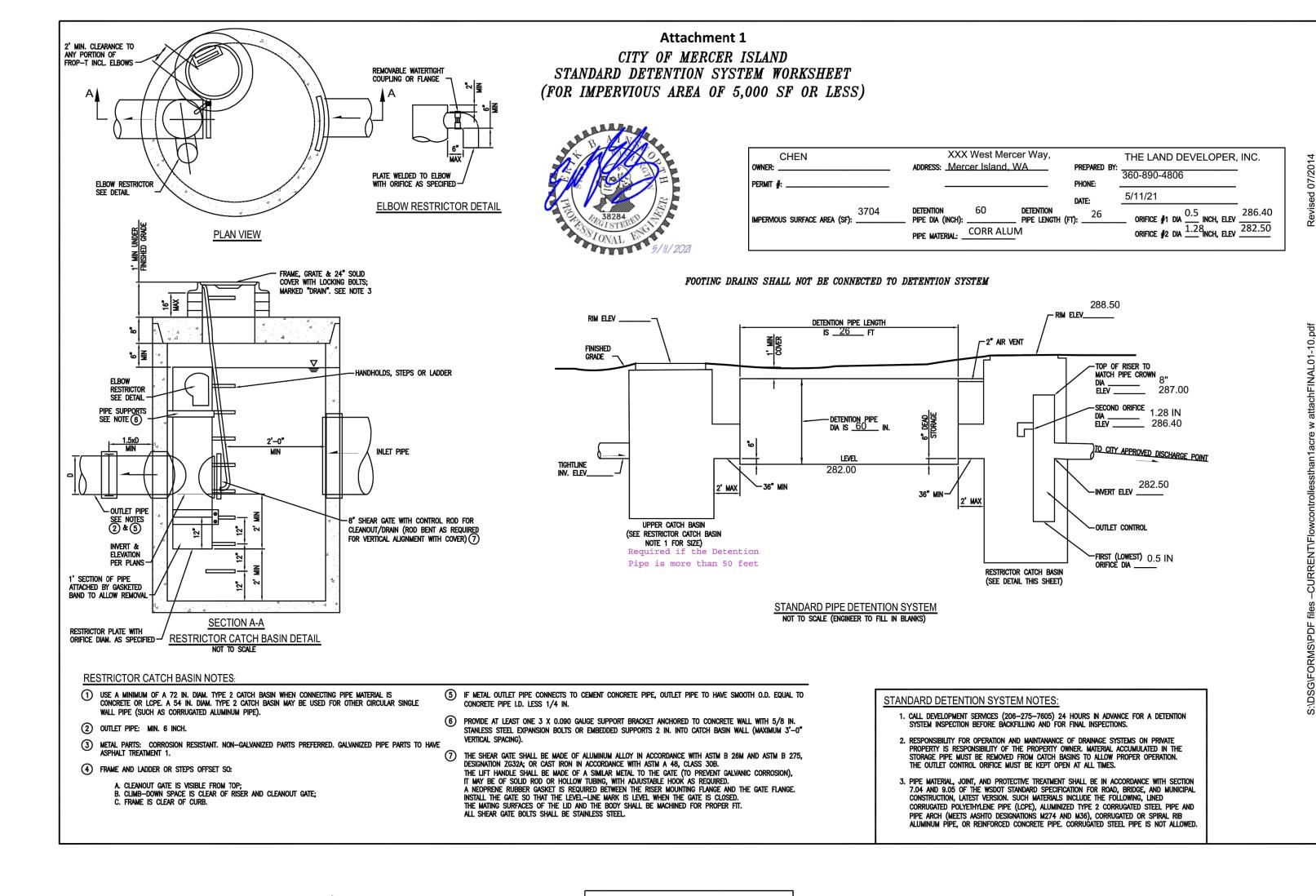


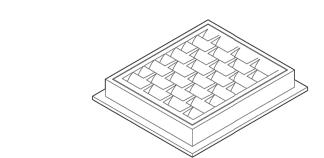
, LLC /E NE, SUITE 155

/ MERCER WAY ERCER ISLAND, WA 98 LIENT: TERA HOMES, LLC 51 DUVALL AVE NE, SU ENTON. WA 98059

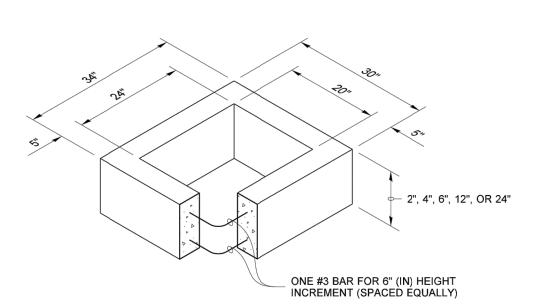










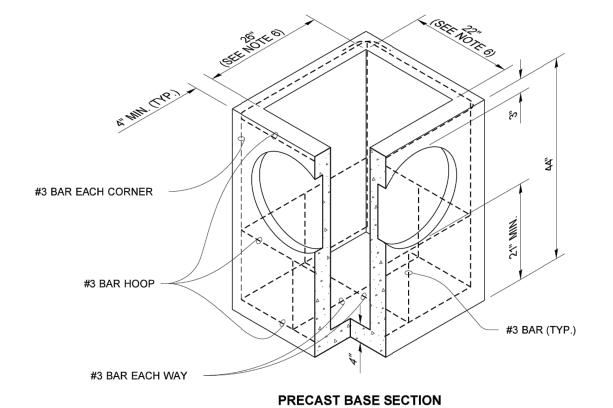


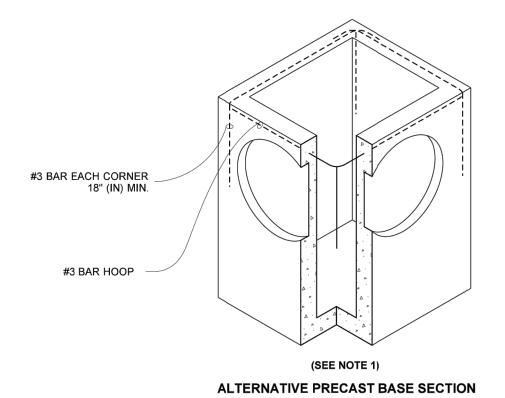
PIPE ALLOWANCES				
PIPE MATERIAL	MAXIMUM INSIDE DIAMETER (INCHES)			
REINFORCED OR PLAIN CONCRETE	12"			
ALL METAL PIPE	15"			
CPSSP * (STD. SPEC. SECT. 9-05.20)	12"			
SOLID WALL PVC (STD. SPEC. SECT. 9-05.12(1))	15"			
PROFILE WALL PVC (STD. SPEC. SECT. 9-05.12(2))	15"			
★ CORRUGATED POLYETHYLENE				

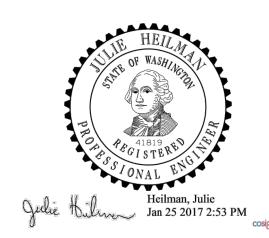
STORM SEWER PIPE

- 1. As acceptable alternatives to the rebar shown in the PRECAST BASE SECTION, fibers (placed according to the Standard Specifications), or wire mesh having a minimum area of 0.12 square inches per foot shall be used with the minimum required rebar shown in the ALTERNATIVE PRECAST BASE SECTION. Wire mesh shall not be placed in the knockouts.
- 2. The knockout diameter shall not be greater than 20" (in). Knockouts shall have a wall thickness of 2" (in) minimum to 2.5" (in) maximum. Provide a 1.5" (in) minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification Section 9-04.3.
- 3. The maximum depth from the finished grade to the lowest pipe invert shall be 5' (ft).
- 4. The frame and grate may be installed with the flange down, or integrally cast into the adjustment section with flange up.
- 5. The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1 : 24 or steeper.
- 6. The opening shall be measured at the top of the **Precast Base Section**.
- 7. All pickup holes shall be grouted full after the basin has been placed.

RECTANGULAR ADJUSTMENT SECTION







CATCH BASIN TYPE 1

STANDARD PLAN B-5.20-02

SHEET 1 OF 1 SHEET APPROVED FOR PUBLICATION Carpenter, Jeff Jan 26 2017 6:48 AM

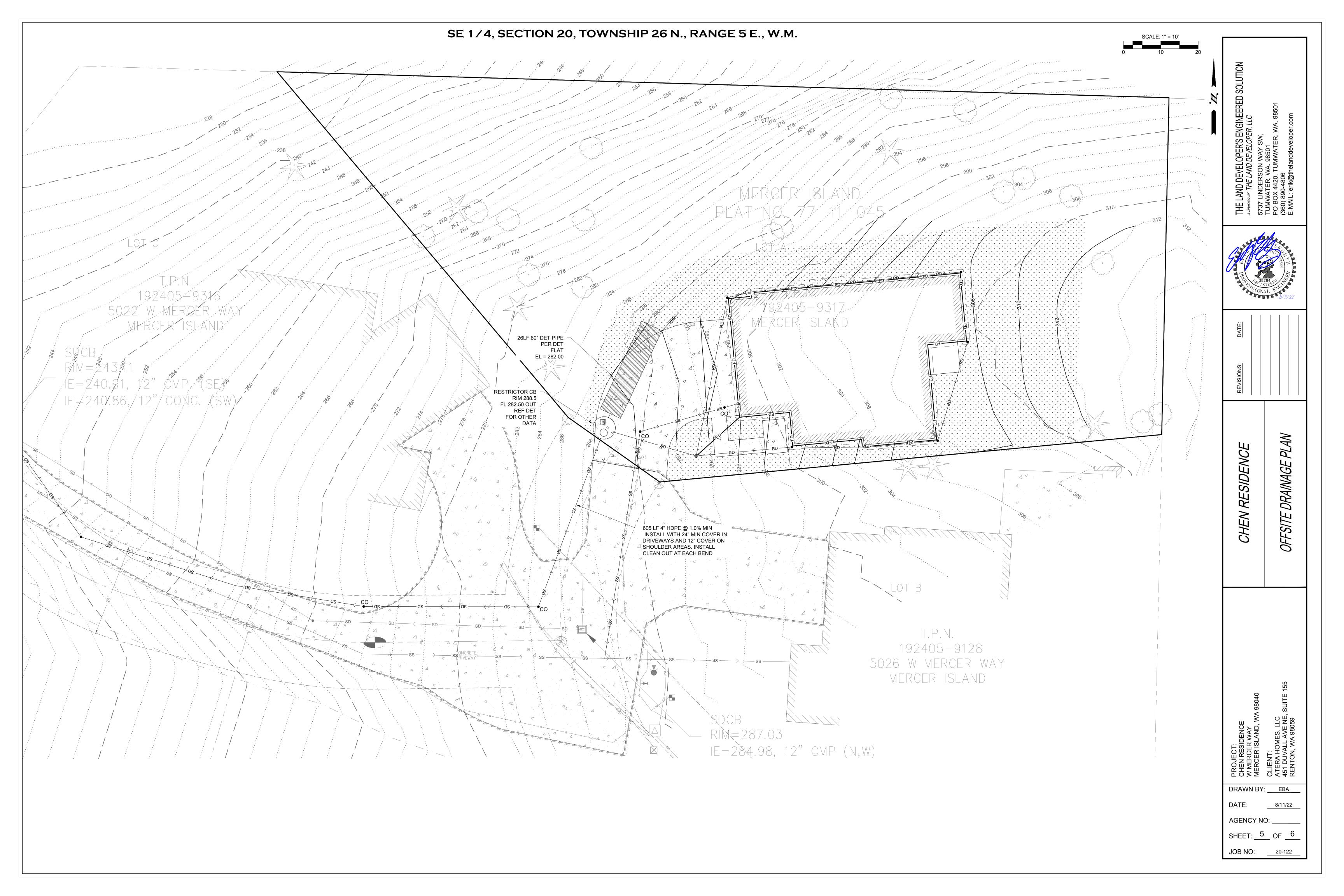
Washington State Department of Transportation JOB NO: 20-122

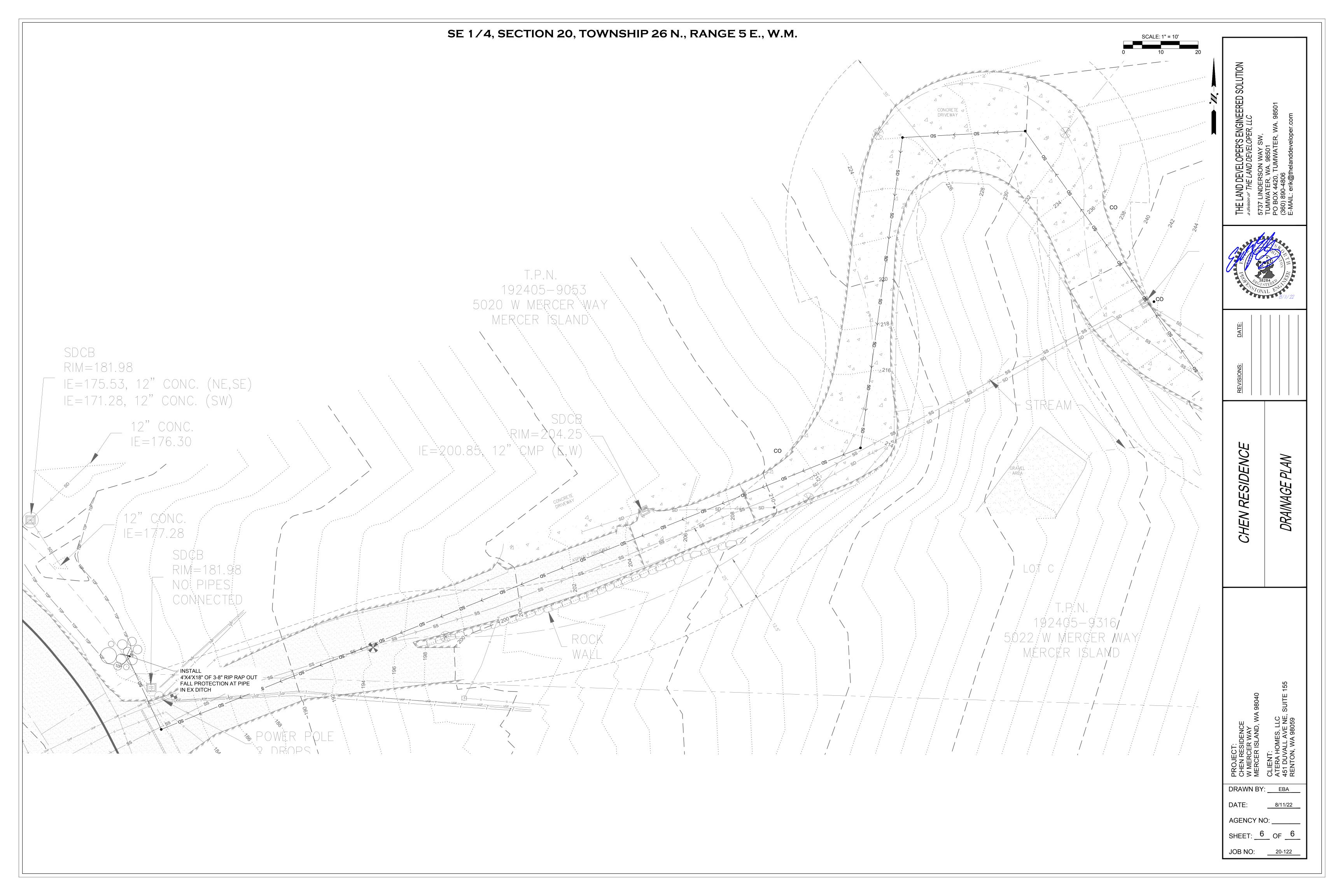
DRAWN BY: ____EBA DATE: 8/11/22

THE LAND DEVELOPER'S ENGINEERED S(
a division of THE LAND DEVELOPER, LLC
5737 LINDERSON WAY SW,
TUMWATER, WA. 98501
PO BOX 4420, TUMWATER, WA CCC
(360) 890-4806
E-MAIL: CCCCC

VC/

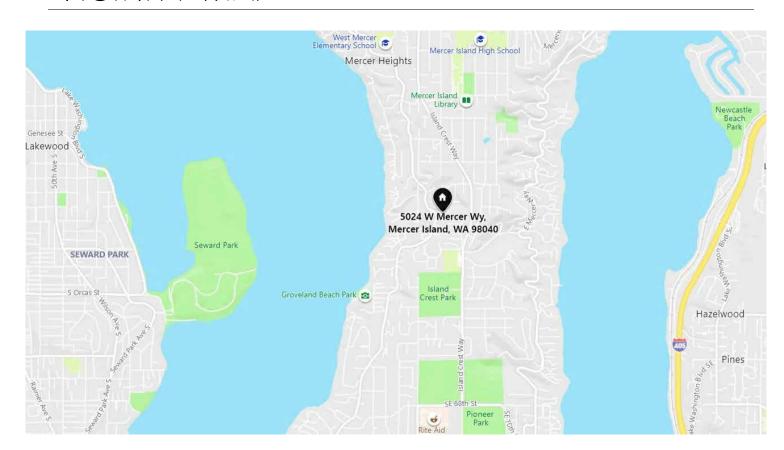
AGENCY NO: SHEET: 4 OF 6





WASHER AND DRYER

VICINITY MAP



ENERGY CODE NOTES

ENERGY COMPLIANCE

HOUR SEGMENT.

PROPOSED RESIDENCE TO COMPLY WITH THE PRESCRIPTIVE REQUIREMENTS OF THE 2018 W.S.E.C. - SEE WSEC FORM/REQUIREMENTS ON SHEET A002.

MECHANICAL VENTILATION REQUIREMENTS

PROPOSED RESIDENCE TO COMPLY WITH THE PRESCRIPTIVE VENTILATION REQUIREMENTS OF SECTION M I 505 OF THE IRC.

WHOLE-HOUSE MECHANICAL VENTILATION SYSTEMS ARE REQUIERED TO BE TESTED, BALANCED AND VERIFIED PER IRC M | 505.4.1.6 \$ M | 505.4.1.7

WHOLE -HOUSE MECHANICAL SYSTEMS SHALL BE PROVIDED WITH ADVANCED CONTROLS THAT ARE CONFIGURED TO OPERATE AT 50% BUT WILL ALSO FUNCTION FOR AT LEAST 2 HOURS IN EACH FOUR-

AN INTERMITTENT WHOLE HOUSE VENTILATION SYSTEM INTEGRATED WITHIN THE FORCED AIR SYSTEM. 24 HOUR TIMER \$ MANUAL OVERRIDE CONTROLS LOCATED IN MAIN LAUNDRY ROOM. 75 CFM AT 50% OPERATION WITH A SYSTEM TYPE NOT BALANCED AND NOT DISTRIBUTED = 225 CFM

SEE SHEET A002 FOR WSEC GENERAL NOTES.

**SEE THE <u>MECHANICAL VENTILATION M I 505 OF THE WA STATE RESIDENTIAL CODE</u>SECTION ON SHEET

[2] HEAT PUMP - I.O CREDIT

[1.3] EFFICIENT BUILDING ENVELOPE - 0.5 CREDITS:

PRESCRIPTIVE COMPLIANCE IS BASED ON TABLE R402.1.1 WITH THE FOLLOWING MODIFICATIONS:

- FENESTRATION U .= 0.28 FLOOR R-38
- SLAB ON GRADE R-10 PERIMETER AND UNDER ENTIRE • SLAB BELOW GRADE SLAB R-10 PERIMETER AND UNDER ENTIRE SLAB

[3.5] HIGH EFFICIENCY HVAC EQUIPMENT - 1.5 CREDITS:

AIR-SOURCE, CENTRALLY DUCTED HEAT PUMP WITH MINIMUM HSPF OF 11.0.

HITACHI MINI VRF 208/230V HEAT PUMP SYSTEM

• EFFICIENCY: I I.O HSPF

HEAT PUMP SUPPLEMENTARY HEAT, IF PROVIDED, SHALL BE PER R403.1.2. • AT FINAL INSPECTION THE AUXILIARY HEAT LOCK OUT CONTROL SHALL BE SET TO 35°F OR LESS.

[4.2] HIGH EFFICIENCY HVAC DISTRIBUTION - 1.0 CREDITS:

ALL DUCT SYSTEMS SHALL BE LOCATED COMPLETELY WITHIN THE CONTINUOUS AIR BARRIER PER R403.3.7. ALL HEATING, COOING AND VENTILATION SSYSTEM COMPONENTS SHALL BE INSTALLED INSIDE THE CONDITIONED

LOCATING SYSTEM COMPONENTS IN CONDITIONED CRAWL SPACE IS NOT PERMITTED UNDER THIS OPTION.

ELECTRIC RESISTANCE HEAT AND DUCTLESS HEAT PUMPS ARE NOT PERMITTED UNDER THIS OPTION.

DIRECT COMBUSTION HEATING EQUIPMENT WITH AFUE LESS THAN 80% IS NOT PERMITTED UNDER THIS OPTION.

[5.5] EFFICIENT WATER HEATING - 2.0 CREDITS:

THE PROPOSED WATER HEATING SYSTEM SHALL INCLUDE A ELECTRIC HEAT PUMP WATER HEATER MEETING STANDARDS FOR TIER III OF NEEA'S ADVANCED WATER HEATING SPECIFICATION.

PROPOSED MODEL:

• RUUD® HYBRID BUILDER RESIDENTIAL ELECTRIC WATER HEATER, MODEL PRO H80 T2RU3 I OBM UNIFORM ENERGY FACTOR: 3.5

TOTAL CREDITS - 6.0

PROJECT INFO

PROJECT ADDRESS:

5024 W MERCER WAY, MERCER ISLAND, 98040

BUILDER:

ATERA HOMES, LLC 45 | DUVALL AVE NE, SUITE | 15 RENTON, WA, 98059

MONSEF DESIGN STUDIO, LLC

RENTON, WA 98059

45 | DUVALL AVE NE, SUITE | 15

PAUL MONSEF PHONE: (206) 612-8647 EMAIL: paul@monsefdesign.com

DESIGNER: **ENGINEER**

L2 ENGINEERS, LLC 17848 NE 198TH PLACE WOODINVILLE, WA 98072

CONTACT: BRIAN LOSHBOUGH, P.E. PHONE: (206) 251-2346 Milton@aterahomes.com BRIAN@L2ENGINEERS.COM

SCOPE OF WORK:

MILTON ORELLANA

(425) 306-2758

CONSTRUCT A NEW 3234 SQ FT SINGLE FAMILY RESIDENCE.

BIDDER DESIGN:

ELECTRICAL, MECHANICAL, PLUMBING, MFR TRUSS CONNECTIONS, EXTERIOR CLADDING TO BE BIDDER DESIGNED/DEFERRED SUBMITTAL (PER 106.3.4.2)

LEGAL DESCRIPTION:

PARCEL A CITY OF MERCER ISLAND SP MI 77-11-045 REC AF NO 7801200950 SD PLAT DAF - THAT POR OF S 1/2 OF NW 1/4 OF NW 1/4 DAF - BEG AT SE COR OF SD SUBD TH N 01-16-04 E ALG ELY LN THOF A DIST OF 450 FT TH N 88-10-41 W A DIST OF 200 FT TO TPOB TH CONTG N 88-10-41 W A DIST OF 578.85 FT TAP ON NELY MGN OF W MERCER WAY SD PT LY ON A CRV HAVING A RAD OF 198.52 FT \$ HAVING A RAD BRG OF S 57-19-36 W TH NWLY ALG SD CRV THRU A C/A OF 09-31-54 AN ARC DIST OF 33.03 FT TH N 42-17-56 E A DIST OF 236.31 FT TO SLY BDRY OF MERHAVEN DIV 2 TH S 88-17-59 E ALG SLY BDRY OF MERHAVEN DIV 2 & CONTG ALG SLY BDRY OF MERHAVEN DIV 3 A DIST OF 444.33 FT TH S 01-16-04 W A DIST OF 206.25 FT TO TPOB

CODE INFORMATION:

GENERAL INFORMATION:

BUILDING AREAS: SEE SQUARE FOOTAGE SCHED. THIS SHEET. CODE COMPLIANCE: 2015 IBC with statewide and City amendments TYPE Vb CONSTRUCTION CONTR. CLASS:

SEE ENERGY CODE NOTES SHT A000 GLAZING: PARCEL #: 192405-9317 ZONE:

PARCEL DESCRIPTION:

Q-S-T-R:

PROPERTY TYPE: R - RESIDENTIAL SINGLE FAMILY(RES USE/ZONE)

PRESENT USE: VACANT(SINGLE-FAMILY) LOT AREA: 19,325 SF PLAT BLOCK: PLAT LOT:

NW-19-24-5

AREA, SQUARE..

Name	Area
Foyer	140 SF
Lower Entry	131 SF
Main Floor	1491 SF
Upper Floor	1471 SF
Gross Building Area: 4	3234 SF
Garage	671 SF
Exterior Area: 1	671 SF
Grand total: 5	3905 SF

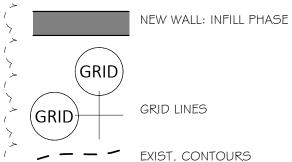
FIRE PROTECTION MEASURES:

NFPA 13R-PLUS FIRE SPRINKLER SYSTEM REQUIRED NFPA 72 HOUSEHOLD FIRE ALARM SYSTEM SYSTEM MONITORED LOW VOLT SMOKE & CO DETECTORS SOLID CORE AND OR FIRE RATED DOORS THROUGOUT I-HR RATED GYPSUM WALL BOARD, ALL AREAS

DRAWING INDEX

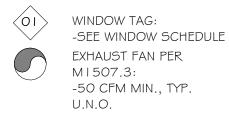
NUMBER	SHEET NAME	REV. ID	REV. DATE
A000	COVER SHEET	1	10/19/2021
A00 I	CODE NOTES		
A002	ENERGY NOTES	1	10/19/2021
A003	ENERGY/VENTING CALCULATIONS	1	10/19/2021
A100	SURVEY		
AIOI	SITE PLAN # AREA/HT CALCULATIONS	1	10/19/2021
A102	ARBORIST TREE PLAN		
A201	LOWER FLOOR	1	10/19/2021
A301	MAIN FLOOR	1	10/19/2021
A401	UPPER FLOOR		
A501	ROOF PLAN	1	10/19/2021
A601	ELEVATIONS	1	10/19/2021
A701	BUILDING SECTIONS		
A702	BUILDING SECTIONS		
A703	BUILDING SECTIONS		
ARCHITECTURAL 'A	A': 15	'	1
DIOI	FOUNDATION & FRAMING DETAILS		
D102	FRAMING DETAILS	1	10/19/2021
D201	BASEMENT DETAILS	1	10/19/2021
D301	ROOF DETAILS		
D401	DECK DETAILS		
ARCHITECTURAL D	DETAIL 'D': 5		
СІ	COVERSHEET		
C2	TESC AND DEMO PLAN		
C2.2	C2 - TESC DETAILS		
C3	SITE, LANDSCAPE & DRAINAGE PLAN		
C4	DETAILS		
C4.4	DRAINAGE PLAN		
C5	OFF SITE STROMWATER PLAN		
CIVIL 'C': 7		<u> </u>	
5100	GENERAL STRUCTURAL NOTES		
5101	GENERAL STRUCTURAL NOTES		
5102	NOTES & SCHEDULE		
5200	FOUNDATION PLAN		
5201	MAIN FLOOR FRAMING PLAN		
5202	UPPER FLOOR FRAMING PLAN		
5203	ROOF FRAMING PLAN		
5300	STRUCTURAL DETAILS		
5301	STRUCTURAL DETAILS		
5302	STRUCTURAL DETAILS		

SYMBOLS & LEGEND:



GRID LINES

NEW CONTOURS



-100 CFM MIN. @ KITCH. WHOLE HOUSE EXHAUST -150 CFM MIN.

-SEE M | 508 ON SHT A002 THERMOSTAT: -PROVIDE 2x8 BLK'G AT 51"

24HR TIMER TO W.H. FAN -SEE M | 508 ON SHT

SHT | # / ELEVATION DESIGNATION: VIEW # / SHEET # DOOR TAG:
-SEE DOOR SCHEDULE. sw# | SHEARWALL TAG: SEE SHEARWALL SCHEDULE HD# INDICATES STRUCTURAL KEYNOTE WITH INDEXED NUMBER. SEE STRUCTURAL KEYNOTE SCHEDULE. (SD) I I OV OR LOW VOLT SMOKE DETECTOR PER R3 | 4: -W/ DISCONNECTION SWITCH & BATTERY BACKUP CD CARBON MONOXIDE DETECTOR PER R3 | 5: W/ INTERCONNECTIVITY PER (HD) REAF DETECTOR PER IRC3 | 4.2.3 w/ INTERCONNECTIVITY PER

EXISTING WALL: SHELL / CORE PHASE

SHEET LAYOUT DESIGNATION: VIEW # / SHEET #

PRALACE/WATER HEATER: -PROVIDE COMBUSTIONABLE AIR FROM OUTSIDE WHEN REQ'D. -PROVIDE PRESSURE RELIEF LINE TO OUTSIDE.

-SECURE WATER HEATER TOP \$ BOTTOM.

SCALE 24X36: * NOTE: | IXI7 SETS ARE REDUCED 50%; SCALE DRAWINGS ACCORDINGLY.

PLYW'D

PLYWOOD

PRESSURE TREATED

ELEVATIONS & BUILDING SECTIONS FOR WINDOW HEAD/SILL LOCATIONS.

4. PROVIDE SAFETY GLAZING PER KEYNOTE P-4 AS LOCATED ON FLOOR PLANS. 5. GLAZING TO BE PER ENERGY COMPLIANCE NOTES. SEE SHEETS A000 - A002

2. GLAZING TO BE PER ENERGY COMPLIANCE NOTES. SEE SHEETS A000 - A002.

5. PROVIDE MIN 0.20 U-VALUE AT SOLID CORE FLUSH DOORS WHERE EXPOSED TO

3. ALL WINDOWS TO BE FIXED UNLESS SHOWN/NOTED OTHERWISE.

3. PROVIDE SAFETY GLAZING PER GENERAL NOTES.

4. NOT USED.

AMBIENT TEMPERATURE.

2. ALL RESIDENTIAL WINDOWS ARE BASED UPON MILGARD VINYL WINDOWS OR EQ U.N.O.

I. ALL RESIDENTIAL SLIDING GLASS DOORS ARE BASED ON MILGARD SERIES VINYL SLIDING

PROJECT NO: ISSUE DATE: SHT ISSUE DATE:2021/01/08

DRAWN BY:

CHAPTER I: ADMINISTRATION

TITLE, SCOPE AND PURPOSE

 THIS COVERSHEET HAS BEEN PREPARED IN A GENERIC OUTLINE FORM FOLLOWING THE STANDARDS SET BY THE INTERNATIONAL RESIDENTIAL CODE (IRC). NOT ALL ITEMS ARE NECESSARILY REQUIRED TO COMPLETE THIS SPECIFIC PROJECT, COORDINATE PLANS

THIS SET OF WORKING DRAWINGS IS CONSIDERED A "BUILDER SET" AND DOES NOT INCLUDE SPECIFICATIONS OR BUILDING MATERIALS LIST. THEREFORE IT IS THE CONTRACTOR/OWNER RESPONSIBILITY TO PROVIDE AND COORDINATE SPECIFICATIONS, INCLUDING PRODUCT SELECTION AND INSTALLATION OR ASSEMBLY. ITEMS CALLED OUT ARE DONE SO FOR CONVENIENCE ONLY.

DO NOT SCALE THESE DRAWINGS FOR CRITICAL DIMENSIONS. VERIFY ALL DIMENSIONS AND DATUM'S BEFORE COMMENCING WORK AND BE RESPONSIBLE FOR THEIR ACCURACY AND REPORT DISCREPANCIES / OMISSIONS TO THE ARCHITECT IMMEDIATELY.

CHAPTER 3: BUILDING PLANNING

DESIGN CRITERIA

[B] R301.2 CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA. BUILDINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS SET FORTH IN THE IRC. ADDITIONAL CRITERIA SHALL BE ESTABLISHED BY THE LOCAL JURISDICTION AND SET FORTH IN TABLE R301.2(1) CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA.

GROUND SNOW LOAD:	25	
WIND SPEED:	PER STRUCT	
SEISMIC DESIGN CATEGORY:	ILK SIRUCI	
SUBJECT TO DAMAGE FROM:		
WEATHERING:	MODERATE	
FROST LINE DEPTH:	18"	
TERMITE:	MODERATE	
HANTED DECLON TEMP	0.0	
WINTER DESIGN TEMP:	26	
ICE SHIELD UNDERLAYMENT REQUIRED:	NO	
FLOOD HAZARDS:		
AIR FREEZING INDEX:	175	
MEAN ANNUAL TEMP:	50.5	

THE ACTUAL WEIGHTS OF MATERIALS AND CONSTRUCTION SHALL BE USED FOR DETERMINING DEAD LOAD. DEAD LOADS USED FOR THIS PROJECT ARE AS FOLLOWS:

1.5 PSF
12 PSF
I O PSF

THE MINIMUM UNIFORMLY DISTRIBUTED LIVE LOAD SHALL BE AS PROVIDED IN

TABLE R301.5 MINIMUM UNIFORMLY DISTRIBUTED LIVE LOADS

ATTICS WITH STORAGE:	20 PSF
WITHOUT STORAGE:	IO PSF
	40 PSF
EXTERIOR BALCONIES:	60 PSF
FIRE ESCAPES:	40 PSF
GUARDRAILS AND HANDRAILS:	200 PLF
GUARDRAIL IN-FILL COMPONENTS:	200 PLF
PASSENGER VEHICLE GARAGES:	200 PSF
ROOMS OTHER THAN SLEEPING ROOMS:	40 PSF
SLEEPING ROOMS:	30 PSF
	40 PSF

301.6 ROOF LOAD.

ROOF SHALL BE DESIGNED FOR THE LIVE LOAD INDICATED IN TABLE R30 I.6 THE SNOW LOAD INDICATED IN TABLE R301.2(1), WHICHEVER IS GREATER.

TABLE R301.6

MINIMUM ROOF LIVE LOADS IN POUNDS-FORCE PER SQUARE

TRIBUTARY LOADED AREA IN SQUARE FEET STRUCTURAL MEMBER					
	0 to 200	2001 to 600	Over 600		
FLAT OR RISE LESS THAN 4" PER FOOT (1:3).	20	16	12		
RISE LESS 4" PER FLOOR (1:3) to 12" PER FOOT (1:1).	16	14	12		
RISE 12" PER FOOT (1:1) AND GREATER.	12	12	12		

301.8 NOMINAL SIZES.

..WHERE DIMENSIONS OF LUMBER ARE SPECIFIED, THEY SHALL BE DEEMED TO BE NOMINAL DIMENSIONS UNLESS SPECIFICALLY DESIGNATED AS ACTUAL DIMENSIONS.

317.1 LOCATION REQUIRED.

IN AREAS SUBJECT TO DECAY DAMAGE AS ESTABLISHED BY TABLE R301.2(1) LOCATIONS ——— REQUIRED BY <u>SECTION R3 | 7 . |</u>, SHALL BE PRESERVATIVE-TREATED IN ACCORDANCE WITH AWPA UI FOR THE SPECIES, PRODUCT, PRESERVATIVE AND END USE. PRESERVATIVES SHALL BE LISTED IN SECTION 4 OF AWPA U I

317.1.1 FIELD TREATMENT FIELD-CUT ENDS, NOTCHES AND DRILLED HOLES OF PRESERVATIVE-TREATED WOOD SHALL BE

TREATED IN THE FIELD IN ACCORDANCE WITH AWPA M4. 6.1 GENERAL

 ALL CUTS, HOLES AND INJURIES SUCH AS ABRASIONS OR HOLES FROM REMOVAL OF NAILS AND SPIKES WHICH MAY PENETRATE THE TREATED ZONE SHALL BE FIELD TREATED. AN AWPA ACCEPTED PRESERVATIVE SYSTEM, DETERMINED APPROPRIATE IN ACCORDANCE WITH AWPA M4 SECTION 7, SHALL BE USED FOR FIELD TREATMENT.

APPLY PRESERVATIVES IN ACCORDANCE WITH THE PRODUCT LABEL. COAT ANY SURFACE THAT IS EXPOSED BY DAMAGE OR FIELD FABRICATION

WHILE NOT USING EXCESS PRESERVATIVE. ANY EXCESS PRESERVATIVE NOT ABSORBED BY THE WOOD PRODUCT SHALL BE CLEANED FROM THE SURFACE PRIOR TO THE USE OF THE PRODUCT.

BORED HOLES FOR CONNECTORS OR BOLTS MAY BE TREATED BY PUMPING COAL- TAR ROOFING CEMENT MEETING ASTM D5643 INTO HOLES USING A GREASE GUN OR SIMILAR DEVICE.

CAREFUL ATTENTION SHOULD BE GIVEN TO MATERIALS PLACED INTO WET ENVIRONMENTS.

ARE SUITABLE ALTERNATIVES WHEN NO MATCH CAN BE FOUND.

AREA TO BE TREATED SHALL BE CLEAN, DRY AND FREE OF EXCESS PRESERVATIVE.

7.1 PRESERVATIVES

 THE PRESERVATIVE SYSTEM FOR FIELD TREATMENT SHALL BE DETERMINED BY THE TYPE OF PRESERVATIVE ORIGINALLY USED TO PROTECT THE PRODUCT. THE PRESERVATIVES DESIGNATED IN AWPA M4 SECTIONS 7.1.1, AND 7.1.2

317.1.2 GROUND CONTACT.

ALL WOOD IN CONTACT WITH THE GROUND SHALL BE APPROVED PRESSURE-PRESERVATIVE-TREATED WOOD SUITABLE FOR GROUND CONTACT USE

FASTENERS FOR PRESSURE PRESERVATIVE AND FIRE-RETARDANT-TREATED WOOD SHALL BE OF HOT-DIPPED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER.

ONE-HALF-INCH DIAMETER OR GREATER STEEL BOLTS.

FASTENERS OTHER THAN NAILS AND TIMBER RIVETS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH ASTM B 695, CLASS 55 MINIMUM

CHAPTER 4: FOUNDATIONS

GENERAL

401.1 APPLICATION

THE PROVISIONS SET FORTH IN CHAPTER 4 OF THE IRC SHALL CONTROL THE DESIGN AND CONSTRUCTION OF THE FOUNDATION AND FOUNDATION SPACES FOR ALL BUILDINGS. IN ADDITION TO THE PROVISIONS OF THIS CHAPTER, THE DESIGN AND CONSTRUCTION OF FOUNDATIONS IN AREAS PRONE TO FLOODING AS ESTABLISHED BY TABLE R301.2(1) SHALL MEET THE PROVISIONS OF SECTION R322.

IN AREAS LIKELY TO HAVE EXPANSIVE, COMPRESSIBLE, SHIFTING OR OTHER UNKNOWN SOIL CHARACTERISTICS, THE BUILDING OFFICIAL SHALL DETERMINE WHETHER TO REQUIRE A SOIL TEST TO DETERMINE THE SOIL'S CHARACTERISTICS AT A PARTICULAR LOCATION, 401.4.1 GEOTECHNICAL EVALUATION.

IN LIEU OF A COMPLETE GEOTECHNICAL EVALUATION, THE LOAD-BEARING VALUES INTABLE R401.4.1 SHALL BE USED. TABLE R401.4.1 PRESUMPTIVE LOAD-BEARING VALUES OF FOUNDATIONS MATERIALS

CLASS OF MATERIAL	LOAD BEARING PRESSURE (PSF)
CRYSTALLINE BEDROCK	12,000
SEDIMENTARY AND FOLIATED ROCK	4,000
SANDY GRAVEL AND/OR GRAVEL (GW AND GP)	3,000
SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL AND CLAYEY GRAVEL (SW,SP,SM,SC,GM & GC)	2,000***
CLAY, SANDY CLAY, SILTY CLAY, CLAYEY SILT, SILT AND SANDY SILT (CI,ML,MH & CH)	1,500

***U.N.O. 2,000 PSF SOIL BEARING IS ASSUMED FOR THIS PROJECT. VERIFY WITH STRUCTURAL NOTES

R402 MATERIALS

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH AS SHOWN IN TABLE R402.2. CONCRETE SUBJECT TO WEATHERING AS INDICATED IN TABLE R301.2(1) SHALL BE AIR ENTRAINED AS SPECIFIED IN TABLE R402.2

MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF CONCRETE

MINIMUM SI ECITED COM RESSIVE STRENGTH OF CONCRETE					
TYPE OF LOCATIONS OF CONC. CONSTRUCTION	TRIBUTARY LOADED AREA IN SQUARE FEET FOR ANY STRUCTURAL MEMBER				
	NEGLIGIBLE	MODERATE	SEVERE		
BASEMENT WALLS, FNDN'S EXPOSED TO WEATHER.	2,500 psi	2,500 psi	2,500 psi		
BASEMENT SLABS \$ INTERIOR SLABS ON GRADE, EXCEPT GAR. FLOOR SLABS.	2,500 psi	2,500 psi	2,500 psi		
BASEMENT WALLS, FNDN WALLS, EXTERIOR WALLS EXPOSED TO WEATHER.	2,500 psi	3,000 psi	3,000 psi		
PORCHES, CARPORT SLABS & STEPS EXPOSED TO WEATHER & GARAGE FLOOR SLABS.	2,500 psi	3,000 psi	3,500 psi		
		•	•		

FOOTINGS

403.1 GENERAL

ALL EXTERIOR WALLS SHALL BE SUPPORTED ON CONTINUOUS SOLID OR FULLY GROUTED MASONRY OR CONCRETE FOOTINGS, WOOD FOUNDATIONS, OR OTHER APPROVED STRUCTURAL SYSTEMS, WHICH SHALL BE OF SUFFICIENT DESIGN TO ACCOMMODATE ALL LOADS ACCORDING TO <u>SECTION R301</u> AND BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF <u>SECTION R403</u>, <u>OF THE IRC</u>. FOOTINGS SHALL BE SUPPORTED ON UNDISTURBED NATURAL SOILS OR ENGINEERED FILL.

403.1.4.1 FROST PROTECTION FOUNDATION WALLS, PIERS AND OTHER PERMANENT SUPPORTS OF BUILDINGS AND STRUCTURES SHALL BE PROTECTED FROM FROST BY EXTENDING FOOTINGS BELOW THE FROST LINE AS SPECIFIED IN TABLE R301.2(1);...

EXCEPTION: DECKS NOT SUPPORTED BY A DWELLING NEED NOT BE PROVIDED WITH FOOTINGS THAT EXTEND BELOW THE FROST LINE.

403.1.6 FOUNDATION ANCHORAGE.

WHEN BRACED WALL PANELS ARE SUPPORTED DIRECTLY ON CONTINUOUS FOUNDATIONS, THE WALL WOOD SILL PLATE SHALL BE ANCHORED TO THE FOUNDATION IN ACCORDANCE WITH SECTION 403.1.6, OF THE IRC.

 SILL PLATE SHALL BE ANCHORED TO THE FOUNDATION WITH ANCHOR BOLTS SPACED A MAXIMUM OF 6 FEET ON CENTER. THERE SHALL BE A MINIMUM OF TWO BOLTS PER PLATE SECTION WITH ONE BOLT LOCATED NOT MORE THAN 12 INCHES FROM EACH END OF THE PLATE SECTION.

BOLTS SHALL BE AT LEAST 1/2 INCH IN DIAMETER AND SHALL EXTEND A MINIMUM OF 7 INCHES INTO MASONRY OR CONCRETE.

SILLS AND SOLE PLATES SHALL BE PROTECTED AGAINST DECAY AND TERMITES WHERE REQUIRED BY SECTIONS R3 18 AND R3 19, OF THE IRC. EXCEPTION: FOUNDATION ANCHOR STRAPS, SPACED AS REQUIRED TO PROVIDE EQUIVALENT ANCHORAGE TO 1/2-INCH-DIAMETER ANCHOR BOLTS.

403.1.6.1 FOUNDATION ANCHORAGE IN SEISMIC DESIGN CATEGORIES DO, D1, D2, AND E.

IN ADDITION TO THE REQUIREMENTS OF <u>SECTION R403.1.6</u>, THE FOLLOWING REQUIREMENTS SHALL APPLY TO WOOD LIGHT-FRAME STRUCTURES IN SEISMIC DESIGN CATEGORIES DI AND D2.

• I/4" X 3" X 3" PLATE WASHERS CONFORMING TO <u>SECTION R602.11.1</u> SHALL BE

USED ON EACH BOLT. INTERIOR BRACED WALL PLATES SHALL HAVE ANCHOR BOLTS SPACED AT NOT MORE THAN 6 FEET ON CENTER AND LOCATED WITHIN 12 INCHES FROM THE ENDS OF EACH PLATE SECTION WHEN SUPPORTED ON A CONTINUOUS FOUNDATION.

INTERIOR BEARING WALL SOLE PLATES SHALL HAVE ANCHOR BOLTS SPACED AT NOT MORE THAN 6 FEET ON CENTER AND LOCATED WITHIN 12 INCHES FROM THE ENDS OF EACH PLATE SECTION WHEN SUPPORTED ON A CONTINUOUS FOUNDATION. THE MAXIMUM ANCHOR BOLT SPACING SHALL BE 4 FEET FOR BUILDINGS OVER TWO

STORIES IN HEIGHT. STEPPED CRIPPLE WALLS SHALL CONFORM TO <u>SECTION R602.11.3.</u> FOUNDATION WALLS

404.1 CONCRETE AND MASONRY FOUNDATION WALLS.

CONCRETE AND MASONRY FOUNDATION WALLS SHALL BE SELECTED AND CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF <u>SECTION R404.1.3</u> OF THE IRC OR IN ACCORDANCE WITH ACI 3 | 8, NCMA TR68-A OR ACI 530/ASCE 5/TMS 402 OR OTHER APPROVED STRUCTURAL STANDARDS.

404.3 WOOD SILL PLATES.

WOOD SILL PLATES SHALL BE A MINIMUM OF 2-INCH BY 4-INCH NOMINAL LUMBER. SILL PLATE ANCHORAGE SHALL BE IN ACCORDANCE WITH <u>SECTIONS R403.1.6</u> AND <u>R602.11.</u>

CHAPTER 5: FLOORS

GENERAL

FLOOR CONSTRUCTION SHALL BE IN ACCORDANCE TO THE PROVISIONS SET FORTH IN CHAPTER 5 OF THE IRC.

FOR FLOOR CONSTRUCTION LOADING, SEE SECTION R301.

CHAPTER 6: WALL CONSTRUCTION

GENERAL

WALL CONSTRUCTION SHALL BE IN ACCORDANCE TO THE PROVISIONS SET FORTH IN

R601.2 REQUIREMENTS.

CHAPTER 6 OF THE IRC.

FOR WALL CONSTRUCTION LOADING, SEE SECTION R301.

R602.3. DESIGN & CONSTRUCTION

SEE TABLE RG02.3(1) ON THIS SHEET FOR FASTENER / NAILING SCHEDULE

EXTERIOR WINDOWS AND GLASS DOORS

NOT INCLUDED IN THE SCOPE OF THIS SECTION.

THE PROVISIONS SET FORTH IN <u>SECTION 613</u> OF THE IRC, SHALL CONTROL THE PERFORMANCE AND CONSTRUCTION REQUIREMENTS FOR EXTERIOR WINDOW SYSTEMS INSTALLED IN WALL SYSTEMS. WATERPROOFING, SEALING AND FLASHING SYSTEMS ARE

613.2 PERFORMANCE.

EXTERIOR WINDOWS AND DOORS SHALL BE DESIGNED TO RESIST THE DESIGN WIND LOADS SPECIFIED IN TABLE R301.2(2) ADJUSTED FOR HEIGHT AND EXPOSURE PER TABLE <u>R301.2(3).</u>

CHAPTER 7: WALL COVERING

GENERAL

THE PROVISIONS SET FORTH IN CHAPTER 7 OF THE IRC, SHALL CONTROL THE DESIGN AND CONSTRUCTION OF THE INTERIOR AND EXTERIOR WALL COVERING FOR ALL BUILDINGS.

PRODUCTS SENSITIVE TO ADVERSE WEATHER SHALL NOT BE INSTALLED UNTIL ADEQUATE WEATHER PROTECTION FOR THE INSTALLATION IS PROVIDED. EXTERIOR SHEATHING SHALL BE DRY BEFORE APPLYING EXTERIOR COVER.

CHAPTER 8: ROOF-CEILING CONSTRUCTION

GENERAL

801.1 APPLICATION. THE PROVISIONS SET FORTH IN CHAPTER 8 OF THE IRC, SHALL CONTROL THE DESIGN AND CONSTRUCTION OF THE ROOF-CEILING SYSTEM FOR ALL BUILDINGS.

801.2 REQUIREMENTS.

ROOF AND CEILING CONSTRUCTION SHALL BE CAPABLE OF ACCOMMODATING ALL LOADS IMPOSED ACCORDING TO SECTION R30 | AND OF TRANSMITTING THE RESULTING LOADS TO THE SUPPORTING STRUCTURAL ELEMENTS.

COLLECT AND DISCHARGE ALL ROOF DRAINAGE TO THE GROUND SURFACE AT LEAST 5 FEET

FROM FOUNDATION WALLS OR TO AN APPROVED DRAINAGE SYSTEM.

MATERIALS, CONSTRUCTION AND QUALITY OF ROOF ASSEMBLIES.

IN AREAS WHERE EXPANSIVE OR COLLAPSIBLE SOILS ARE KNOWN TO EXIST, ALL DWELLINGS SHALL HAVE A CONTROLLED METHOD OF WATER DISPOSAL FROM ROOFS THAT WILL

801.3 ROOF DRAINAGE.

CHAPTER 9: ROOF ASSEMBLIES

GENERAL

R901

THE PROVISIONS SET FORTH IN CHAPTER 9 OF THE IRC, SHALL GOVERN THE DESIGN,

2015 UNIFORM PLUMBING CODE

PROTECTION OF PIPING, MATERIALS, AND STRUCTURES

SECTION 313.12 RATPROOFING

STRAINER PLATES ON DRAIN INLETS SHALL HAVE 1/2-INCH OPENINGS MAX. METER BOXES SHALL BE CONSTRUCTED IN SUCH A MANNER THAT RATS CANNOT

ENTER A BLDG BY FOLLOWING THE SERVICE PIPES FROM THE BOX INTO THE BLDG. WHERE OPENINGS HAVE BEEN MADE IN WALLS, FLOORS, OR CLGS FOR THE PASSAGE OF PIPES, SUCH OPENINGS SHALL BE CLOSED AND PROTECTED BY THE INSTALLATION

OF APPROVED METAL COLLARS SECURELY FASTENED TO THE ADJOINING STRUCTURE. TUB WASTE OPENINGS IN FRAMED CONSTRUCTION TO CRAWL SPACES AT OR BELOW THE FIRST FLOOR SHALL BE PROTECTED BY THE INSTALLATION OF APPROVED METAL COLLARS OR METAL SCREEN, WITH 1/2-INCH OPENINGS MAX, AND SECURELY FASTENED TO THE ADJOINING STRUCTURE.

7 S

PERMIT SET

PROJECT NO: ISSUE DATE: SHT ISSUE DATE:2021/01/08

SCALE 24X36: * NOTE: | IXI7 SETS ARE REDUCED 50%; SCALE DRAWINGS ACCORDINGLY.

DRAWN BY:

124 0.28

126 0.28

127 0.28

128 0.28

129 0.28

130 0.28

131 0.28

132 0.28

133 0.28

18.0 5.04

45.0 12.60

4.0 1.12

37.5 10.50

25.0 7.00

120.0 33.60

27.0 7.56

45.0 12.60

30.0 8.40

48.0 13.44

Overhead Glazing (Skylights)

PICTURE

PICTURE

PICTURE

PICTURE

PICTURE

PICTURE

PICTURE

PICTURE

PICTURE

PICTURE

Component			Wid	dth Height		
Description	Ref.	U-factor	Qt. Fee	et ^{Inch} Feet ^{Inch}	Area	UA
150	150	0.50	1 4	0 4 0	16.0	8.00
					0.0	0.00
			11		0.0	0.00
					0.0	0.00
					0.0	0.00
					0.0	0.00
					·	
			Overhead Glazing		16.0	
	Over	head Glazir	ng Area Weighted	dU = UA/Area		0.50

Total Sum of Fenestration Area and UA (for heating system sizing calculations)

2018 Washington State Energy Code – Residential Prescriptive Energy Code Compliance for All Climate Zones in Washington Single Family – New & Additions (effective February 1, 2021)

These requirements apply to all IRC building types, including detached one- and two-family dwellings and multiple single-family dwellings (townhouses).

Project Information	Contact Information
CHEN RESIDENCE	ATERA DESIGN STUDIO
5024 W. MERCER WAY, MERCER ISLAND	STUDIO@ATERAHOMES.COM, 425-306-2758

Instructions: This single-family project will use the requirements of the Prescriptive Path below and incorporate the minimum values listed. Based on the size of the structure, the appropriate number of additional credits are checked as chosen by the permit applicant.

Provide all information from the following tables as building permit drawings: Table R402.1 - Insulation and Fenestration Requirements by Component, Table R406.2 - Fuel Normalization Credits and 406.3 - Energy Credits.

Authorized Representative		Date	01/04/2022			
	All Climate Zones (Table R402.1.1)					
	R-Value ^a		U-Factor ^a			
enestration U-Factor ^b	n/a		0.30			
kylight U-Factor ^b	n/a		0.50			
Glazed Fenestration SHGC b,e	n/a		n/a			
Ceiling ^e	49		0.026			
Vood Frame Wall ^{g,h}	21 int		0.056			
loor	30		0.029			
Below Grade Wall ^{c,h}	10/15/21 int + TB		0.042			
lah ^{d,f} R-Value & Denth	10. 2 ft		n/a			

- R-values are minimums. U-factors and SHGC are maximums. When insulation is installed in a cavity that is less a than the label or design thickness of the insulation, the compressed *R*-value of the insulation from Appendix Table A101.4 shall not be less than the *R*-value specified in the table.
- b The fenestration *U*-factor column excludes skylights.
- "10/15/21 +5TB" means R-10 continuous insulation on the exterior of the wall, or R-15 continuous insulation on the interior of the wall, or R-21 cavity insulation plus a thermal break between the slab and the basement wall at
- c the interior of the basement wall. "10/15/21 +5TB" shall be permitted to be met with R-13 cavity insulation on the interior of the basement wall plus R-5 continuous insulation on the interior or exterior of the wall. "5TB" means R-5 thermal break between floor slab and basement wall.
- d R-10 continuous insulation is required under heated slab on grade floors. See Section R402.2.9.1.
- For single rafter- or joist-vaulted ceilings, the insulation may be reduced to R-38 if the full insulation depth
- extends over the top plate of the exterior wall. R-7.5 continuous insulation installed over an existing slab is deemed to be equivalent to the required perimeter
- f | slab insulation when applied to existing slabs complying with Section R503.1.1. If foam plastic is used, it shall meet the requirements for thermal barriers protecting foam plastics.
- For log structures developed in compliance with Standard ICC 400, log walls shall meet the requirements for climate zone 5 of ICC 400.

Prescriptive Path – Single Family

- Int. (intermediate framing) denotes framing and insulation as described in Section A103.2.2 including standard
- h framing 16 inches on center, 78% of the wall cavity insulated and headers insulated with a minimum of R-10

2018 Washington State Energy Code-R

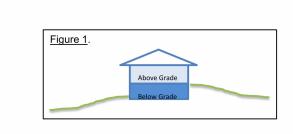
ergycode@energy.wsu.edu or (360) 956-2042 for assistance.

Simple Heating System Size: Washington State

Manuals J and S. This tool will calculate heating loads only. ACCA procedures for sizing cooling systems should be used to determine cooling loads. Please complete the green drop-downs and boxes that are applicable to your project. As you make selections in the drop-downs for each section, some values will be calculated for you. If you do not see the selection you need in the drop-down options, please contact the WSU Energy Program at

This heating system sizing calculator is based on the Prescriptive Requirements of the 2018 Washington State Energy Code (WSEC) and ACCA

Project Information Contact Information 24 W. MERCER WA UVALL AVE NE, SUITE CER ISLAND, WA 9804 **Heating System Type:** All Other Systems Heat Pump To see detailed instructions for each section, place your cursor on the word "Instructions" Design Temperature Design Temperature Difference (ΔT) ΔT = Indoor (70 degrees) - Outdoor Design Temp **Area of Building** Conditioned Floor Area Instructions Conditioned Floor Area (sq ft) Conditioned Volume Average Ceiling Height 31.532 Instructions Average Ceiling Height (ft **Glazing and Doors** U-Factor X 0.280 802 224.42 U-Factor X Area = 0.50 16 Insulation U-Factor X 0.026 46.75 Single Rafter or Joist Vaulted Ceilings U-Factor X 0.027 2.46 Above Grade Walls (see Figure 1) U-Factor X 159.0 0.056 **U-Factor** 0.029 58.09 Below Grade Walls (see Figure 1) **U-Factor** Area 0.042 83.24 Slab Below Grade (see Figure 1) F-Factor X 0.303 No Slab Below Grade in this project. Slab on Grade (see Figure 1) F-Factor X 0.360 13.32 **Location of Ducts Duct Leakage Coefficient**



Sum of UA 595.29 Envelope Heat Load 26,788 Btu / Hour Sum of UA $x \Delta T$ Air Leakage Heat Load 15,324 Btu / Hour Volume x $0.6 \times \Delta T \times 0.018$ 42.112 Btu / Hour Building Design Heat Load Air leakage + envelope heat loss Building and Duct Heat Load 42.112 Btu / Hour Ducts in unconditioned space: sum of building heat loss x 1.10 Ducts in conditioned space: sum of building heat loss x Maximum Heat Equipment Output 52,640 Btu / Hour

Building and duct heat loss x 1.40 for forced air furnace Building and duct heat loss x 1.25 for heat pump

(07/01/13) <

2018 Washington State Energy Code – Residential

Prescriptive Energy Code Compliance for All Climate Zones in Washington Single Family - New & Additions (effective February 1, 2021)

Each dwelling unit in a residential building shall comply with sufficient options from Table R406.2 (fuel normalization credits) and Table 406.3 (energy credits) to achieve the following minimum number of credits. To claim this credit, the building permit drawings shall specify the option selected and the maximum tested building air leakage, and show the qualifying ventilation system and its control sequence

- 1. Small Dwelling Unit: 3 credits Dwelling units less than 1,500 sf in conditioned floor area with less than 300 sf of fenestration area. Additions to existing building that are greater than 500 sf of heated floor area but less than 1,500 sf.
- 2. Medium Dwelling Unit: 6 credits
- All dwelling units that are not included in #1 or #3 3. Large Dwelling Unit: 7 credits
- Dwelling units exceeding 5,000 sf of conditioned floor area
- 4. Additions less than 500 square feet: 1.5 credits All other additions shall meet 1-3 above

Before selecting your credits on this Summary table, review the details in Table 406.3 (Single Family), on page 4.

	Summary of Ta	able R406.2		
Heating Options	Fuel Normalization Descriptions		select ONE g option	User Notes
1	Combustion heating minimum NAECAb	0.0		
2	Heat pump ^c	1.0	•	
3	Electric resistance heat only - furnace or zonal	-1.0		
4	DHP with zonal electric resistance per option 3.4	0.5		
5	All other heating systems	-1.0		
Energy Options	Energy Credit Option Descriptions	energy option	select ONE on from each gory ^d	
1.1	2ffmm?2???mdm?2????m??	0.5		
1.2	Efficient Building Envelope	1.0		
1.3	Efficient Building Envelope	0.5	•	.028 + R38 Floors
1.4	Efficient Building Envelope	1.0		
1.5	Efficient Building Envelope	2.0		
1.6	Efficient Building Envelope	3.0		
1.7	Efficient Building Envelope	0.5		
2.1	Air Leakage Control and Efficient Ventilation	0.5		
2.2	Air Leakage Control and Efficient Ventilation	1.0		
2.3	Air Leakage Control and Efficient Ventilation	1.5		
2.4	Air Leakage Control and Efficient Ventilation	2.0		
3.1ª	High Efficiency HVAC	1.0		
3.2	High Efficiency HVAC	1.0		
3.3ª	High Efficiency HVAC	1.5		
3.4	High Efficiency HVAC	1.5		
3.5	High Efficiency HVAC	1.5	•	
3.6ª	High Efficiency HVAC	2.0		
4.1	High Efficiency HVAC Distribution System	0.5		
4.2	High Efficiency HVAC Distribution System	1.0	•	

Prescriptive Path – Single Family 2018 Washington State Energy Code-R

2018 WASHINGTON STATE / IRC EXHAUST SYSTEM REQUIREMENTS

<u>M1503</u>

M I 503.6 MAKEUP AIR REQUIRED

WHERE ONE OR MORE GAS, LIQUID OR SOLID FUEL-BURNING APPLIANCE THAT IS NEITHER DIRECT-VENT NOR USES A MECHANICAL DRAFT VENTING SYSTEM IS LOCATED WITHIN A DWELLING UNIT'S AIR BARRIER, EACH EXHAUST SYSTEM CAPABLE OF EXHAUSTING IN EXCESS OF 400 CUBIC FEET PER MINUTE (0.19 M3/5) SHALL BE MECHANICALLY OR PASSIVELY PROVIDED WITH MAKEUP AIR AT A RATE APPROXIMATELY EQUAL TO THE EXHAUST AIR RATE. SUCH MAKEUP AIR SYSTEMS SHALL BE EQUIPPED WITH NOT FEWER THAN ONE DAMPER COMPLYING WITH SECTION M | 503.6.2.

M I 503.6.2 MAKEUP AIR DAMPERS

EACH DAMPER SHALL BE A GRAVITY DAMPER OR AN ELECTRICALLY OPERATED DAMPER THAT AUTOMATICALLY OPENS WHEN THE EXHAUST SYSTEM OPERATES. DAMPERS SHALL BE LOCATED TO ALLOW ACCESS FOR INSPECTION, SERVICE, REPAIR AND REPLACEMENT WITHOUT REMOVING PERMANENT CONSTRUCTION OR ANY OTHER DUCTS NOT CONNECTED TO THE DAMPER BEING INSPECTED. SERVICED, REPAIRED OR REPLACED. GRAVITY OR BAROMETRIC DAMPERS SHALL NOT BE USED IN PASSIVE MAKEUP AIR SYSTEMS EXCEPT WHERE THE DAMPERS ARE RATED TO PROVIDE THE DESIGN MAKEUP AIRFLOW AT A PRESSURE DIFFERENTIAL OF 0.01 IN. W.C. (3 PA) OR LESS.

M I 505 MECHANICAL VENTILATION

M I 505. I SOURCE SPECIFIC VENTILATION WHERE LOCAL EXHAUST OR WHOLE-HOUSE MECHANICAL VENTILATION IS PROVIDED, THE EQUIPMENT SHALL BE DESIGNED IN ACCORDANCE SECTION M | 505

M I 505.2 RECIRCULATION OF AIR. EXHAUST AIR FROM BATHROOMS AND TOILET ROOMS SHALL NOT BE RECIRCULATED WITHIN A RESIDENCE OR CIRCULATED TO ANOTHER DWELLING UNIT AND SHALL BE EXHAUSTED DIRECTLY TO THE OUTDOORS. EXHAUST AIR FROM BATHROOMS, TOILET ROOMS AND KITCHENS SHALL NOT DISCHARGE INTO AN ATTIC, CRAWL SPACE OR OTHER AREAS INSIDE THE BUILDING.

M I 505.3 EXHAUST EQUIPMENT. EXHAUST EQUIPMENT SERVING SINGLE DWELLING UNITS SHALL BE LISTED AND LABELED AS PROVIDING THE MINIMUM REQUIRED AIRFLOW IN ACCORDANCE WITH ANSI/AMCA 2 I O-

ANSI/ASHRAE 51. M I 505.4 WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM

a. SEE TABLE M I 505.4.3 FOR MINIMUM VENTILATION RATES.

WHOLE-HOUSE MECHANICAL VENTILATION SYSTEMS SHALL BE DESIGNED IN ACCORDANCE WITH SECTIONS M | 505.4.1 THROUGH M | 505.4.4.

- PER IRC M | 505.4.1.1. WHOLE-HOUSE VENTILATION FANS MUST BE RATED FOR SOUND AT A MAXIMUM OF 1.0 SONE. THIS SOUND RATING SHALL BE AT A MINIMUM OF O. I IN. W.C. STATIC PRESSURE IN ACCORDANCE WITH HVI PROCEDURES SPECIFIED IN IRC M | 505.4.1.2 AND M | 505.4.1.3.
- WHOLE-HOUSE MECHANICAL VENTILATION SYSTEMS ARE REQUIRED TO BE TESTED, BALANCED, AND VERIFIED TO PROVIDE A FLOW RATE NOT LESS THAN THE MINIMUM REQUIRED BY IRC M | 505.4.3 AND M | 505.4.4 PER IRC M1505.4.1.6.
- THE WHOLE HOUSE MECHANICAL SYSTEM SHALL BE PROVIDED WITH CONTROLS THAT ENABLE MANUAL OVERRIDE.

MIGOI DUCT CONSTRUCTION

M1601.1 DESIGN DUCT SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISION OF THIS SECTION AND ACCA MANUAL D. THE APPLIANCE MANUFACTURER'S INSTALLATION INSTRUCTIONS, OR OTHER APPROVED METHODS.

M1601.1.1 ABOVE GROUND DUCTS

- DISCHARGE TEMP LIMIT OF 250 DEGREES FAHRENHEIT LABEL WITH UL 181 AND INSTALLED TO MANUF. SPECS
- FIELD-FABRICATED, SHOP-FABRICATED, AND FLEXIBLE DUCT CONSTRUCTION SHALL CONFORM TO SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE EXCEPT AS ALLOWED BY TABLE M | 60 | . | . | GALVANIZED STEEL SHALL CONFORM TO ASTM A 653 GYPSUM PERMITTED PROVIDED AIR TEMP IS LESS THAN 125 DEGREES F AND NOT
- SUBJECT TO CONDENSATION DUCT SYSTEMS SHALL BE CONSTRUCTED OF MATERIALS OF LESS THAN 200
- FLAME SPREAD INDEX
- f. STUD WALL CAVITIES, SEE 7.1-7.5

M I 60 I .2 VIBRATION ISOLATORS

VIBRATION ISOLATORS INSTALLED BETWEEN MECHANICAL EQUIPMENT AND DUCTS SHALL BE FABRICATED FROM APPROVED MATERIALS LIST AND SHALL NOT EXCEED 10" IN LENGTH.

M | 60 | .3 DUCT INSULATION MATERIALS

- DUCT INSULATION MATERIALS TO CONFORM TO THE FOLLOWING:
- DUCT COVERS AND LININGS TO MEET ASTM E 84 OR UL 723, AND ASTM E 223 I DUCT COVERINGS AND LININGS SHALL MEET ASTM C 411
- REFLECTIVE DUCT INSULATION SHALL BE VISIBLE AT INTERVALS NO GREATER 36". R-VALUE IS DETERMINED IN ACCORDANCE WITH ASTM C 1668

M1601.4 INSTALLATION

DUCT INSTALLATION SHALL COMPLY WITH SECTIONS M | 60 | . 1 . 1 THROUGH M | 60 | . 4 . 10

M1701 COMBUSTION AIR

M1701.1 SCOPE SOLID FUEL-BURNING APPLIANCES SHALL BE PROVIDED WITH COMBUSTION AIR IN ACCORDANCE WITH THE APPLIANCE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

METHODS OF PROVIDING COMBUSTION AIR IN THIS CHAPTER DO NOT APPLY TO FIREPLACES, FIREPLACE STOVES AND DIRECT-VENT APPLIANCES. THE REQUIREMENTS FOR COMBUSTION AND DILUTION AIR FOR GAS-FIRED APPLIANCES SHALL BE IN ACCORDANCE WITH CHAPTER 24.

2018 Washington State Energy Code - Residential Prescriptive Energy Code Compliance for All Climate Zones in Washington

	Summary of Table	R406.2 (co	nt.)		
Energy Options	Energy Credit Option Descriptions (cont.)	energy op	elect ONE otion from tegory d	User I	Notes
5.1 ^d	Efficient Water Heating	0.5			
5.2	Efficient Water Heating	0.5			
5.3	Efficient Water Heating	1.0			
5.4	Efficient Water Heating	1.5			
5.5	Efficient Water Heating	2.0	▣	PRO H80 T2RU3	10BM
5.6	Efficient Water Heating	2.5			
6.1 ^e	Renewable Electric Energy (3 credits max)	1.0			·
7.1	Appliance Package	0.5			
	Total Credits		6.0	Calculate Total	Clear Fo

- a. An alternative heating source sized at a maximum of 0.5 W/sf (equivalent) of heated floor area or 500 W,
- whichever is bigger, may be installed in the dwelling unit. b. Equipment listed in Table C403.3.2(4) or C403.3.2(5)
- c. Equipment listed in Table C403.3.2(1) or C403.3.2(2)
- d. You cannot select more than one option from any category EXCEPT in category 5. Option 5.1 may be combined with options 5.2 through 5.6. See Table 406.3.
- e. 1.0 credit for each 1,200 kWh of electrical generation provided annually, up to 3 credits max. See the complete Table R406.2 for all requirements and option descriptions.
- f. Use the single radiobutton in the upper right of the second column to deselect radiobuttons in that group.

2018 WASHINGTON STATE ENERGY REQUIREMENTS

CHAPTER 3 GENERAL REQUIREMENTS

R301 CLIMATE ZONES CLIMATE ZONES FROM TABLE R301.1 SHALL BE USED IN DETERMINING THE APPLICABLE REQUIREMENTS FROM CHAPTER 4. KING, SNOHOMISH # PIERCE COUNTY - 4C (MARINE)

R302 DESIGN CONDITIONS THE INTERIOR DESIGN TEMPERATURES USED FOR HEATING AND COOLING LOAD CALCULATIONS SHALL

BE A MAXIMUM OF 72°F FOR HEATING AND MINIMUM OF 75°F FOR COOLING. THE HEATING OR

COOLING OUTDOOR DESIGN TEMPERATURES SHALL BE SELECTED FROM APPENDIX RC.

R401 GENERAL A PERMANENT CERTIFICATE SHALL BE POSTED WITHIN 36" OF THE ELECTRICAL DISTRIBUTION PANEL PER WSEC R401.3. THE CERTIFICATE SHALL LIST THE PREDOMINANT R-VALUES OF INSULATION INSTALLED IN OR ON CEILING/ROOF, WALLS, FOUNDATION (SLAB, BASEMENT WALL, CRAWLSPACE WALL AND/OR

FLOOR), AND DUCTS OUTSIDE THE CONDITIONED SPACES; U-FACTORS FOR FENESTRATION; AND THE SOLAR HEAT GAIN COEFFICIENT (SHGC) OF FENESTRATION; THE RESULTS FROM ANY REQUIRED DUCT SYSTEM AND BUILDING ENVELOPE AIR LEAKAGE TESTING DONE ON THE BUILDING; AND THE RESULTS FROM THE WHOLE HOUSE MECHANICAL VENTILATION SYSTEM FLOW RATE TEST. THE CERTIFICATE SHALL ALSO LIST THE TYPE AND EFFICIENCY OF HEATING, COOLING, AND SERVICE WATER HEATING EQUIPMENT.

R402 BUILDING THERMAL ENVELOPE

THE BUILDING THERMAL ENVELOPE WILL MEET THE REQUIREMENTS OF SECTIONS R402.1.1 THROUGH R402.1.6

VERTICAL U-FACTOR: 0.28

CHAPTER 4 RESIDENTIAL ENERGY EFFICIENCY

SKYLIGHT U-FACTOR: 0.50 CEILING R-VALUE: R-49 OR R-38 IF VAULTED (0.026) WOOD FRAME WALL: R-21 (0.056) + INSULATED HEADERS W/ R-10

FLOOR: R-38 (0.029) BELOW GRADE WALL: R-21 + THERMAL BREAK (0.047) SLAB ON GRADE: R-10/L=24"

R402.2.1 CEILINGS WITH ATTIC SPACES

WHERE SECTION R402.1.1 WOULD REQUIRE R-49 IN THE CEILING, INSTALLING R-38 OVER 100 PERCENT OF THE CEILING AREA REQUIRING INSULATION SHALL BE DEEMED TO SATISFY THE REQUIREMENT FOR R-49 WHEREVER THE FULL HEIGHT OF UNCOMPRESSED R-38 INSULATION EXTENDS OVER THE WALL TOP PLATE AT THE EAVES. THIS REDUCTION SHALL NOT APPLY TO THE U-FACTOR ALTERNATIVE APPROACH IN SECTION R402.1.3 AND THE TOTAL UA ALTERNATIVE IN SECTION R402 | 4

R402.2.1.1 LOOSE INSULATION IN ATTIC SPACES

OPEN-BLOWN OR POURED LOOSE FILL INSULATION MAY BE USED IN ATTIC SPACES WHERE THE SLOPE OF THE CEILING IS NOT MORE THAN 3 FEET IN 12 AND THERE IS AT LEAST 30 INCHES OF CLEAR DISTANCE FROM THE TOP OF THE BOTTOM CHORD OF THE TRUSS OR CEILING JOIST TO THE

UNDERSIDE OF THE SHEATHING AT THE ROOF EDGE.

R402.2.3 EAVE BAFFLE FOR AIR PERMEABLE INSULATIONS IN VENTED ATTICS, A BAFFLE SHALL BE INSTALLED ADJACENT TO SOFFIT AND EAVE VENTS. BAFFLES SHALL MAINTAIN AN OPENING EQUAL OR GREATER THAN THE SIZE OF THE VENT. THE BAFFLE SHALL EXTEND OVER THE TOP OF THE ATTIC INSULATION. THE BAFFLE SHALL BE PERMITTED TO BE ANY SOLID MATERIAL

R402.2.4 ACCESS HATCHES AND DOORS ACCESS DOORS FROM CONDITIONED SPACES TO UNCONDITIONED SPACES (E.G., ATTICS AND CRAWL SPACES) SHALL BE WEATHERSTRIPPED AND INSULATED TO A LEVEL EQUIVALENT TO THE INSULATION ON

THE SURROUNDING SURFACES.

R402.2.7 FLOORS

FLOOR INSULATION SHALL BE INSTALLED TO MAINTAIN PERMANENT CONTACT WITH THE UNDERSIDE OF THE SUBFLOOR DECKING. INSULATION SUPPORTS SHALL BE INSTALLED SO SPACING IS NO MORE THAN 24-INCHES ON CENTER. FOUNDATION VENTS SHALL BE PLACED SO THAT THE TOP OF THE VENT IS BELOW THE LOWER SURFACE OF THE FLOOR INSULATION. PROVIDE R-10 CONTINUOUS INSULATION UNDER HEATED SLAB ON GRADE FLOORS PER

R402.2.9.1 PROVIDE CLASS I VAPOR RETARDER AT CRAWL SPACE \$ LAP | 2" AT SEAMS AND EXTEND TO

FOUNDATION WALL. R402.2.8 BELOW-GRADE WALLS

EXTERIOR WALL INSULATION USED ON THE EXTERIOR (COLD) SIDE OF THE WALL SHALL EXTEND FROM THE TOP OF THE BELOW-GRADE WALL TO THE TOP OF THE FOOTING AND SHALL BE APPROVED FOR BELOW-GRADE USE. ABOVE-GRADE INSULATION SHALL BE PROTECTED. INSULATION USED ON THE INTERIOR (WARM) SIDE OF THE WALL SHALL EXTEND FROM THE TOP OF THE BELOW-GRADE WALL TO THE BELOW-GRADE FLOOR LEVEL AND SHALL INCLUDE R-5 RIGID BOARD PROVIDING A THERMAL BREAK

BETWEEN THE CONCRETE WALL AND THE SLAB. ABOVE GRADE WALLS: PROVIDE FACE STAPLED BATTS TO AVOID COMPRESSION. PROVIDE MIN R-10 INSULATION AT WALL HEADER, (R402.1.1M)

R402.4 AIR LEAKAGE THE BUILDING THERMAL ENVELOPE SHALL BE CONSTRUCTED TO LIMIT AIR LEAKAGE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS R402.4.1 THROUGH R402.4.4. PROVIDE AN AIR BARRIER AND

- INSULATION INSTALLATION PER TABLE R402.1.1 THE BUILDING THERMAL ENVELOPE SHALL COMPLY WITH SECTIONS R402.4.1.1 AND R402.4.1.2 PER R402.4.1 THE SEALING METHODS BETWEEN DISSIMILAR MATERIALS SHALL ALLOW FOR DIFFERENTIAL EXPANSION AND CONTRACTION
- THE COMPONENTS OF THE BUILDING THERMAL ENVELOPE AS LISTED IN TABLE R402.4.1.1 SHALL BE INSTALLED PER R402.4.1. WHERE REQUIRED BY THE CODE OFFICIAL, AN APPROVED THIRD PARTY SHALL INSPECT ALL COMPONENTS AND VERIFY COMPLIANCE. THE BUILDING OR DWELLING UNIT SHALL BE TESTED PER R402.4.1.2 AND VERIFIED AS HAVING
- AN AIR LEAKAGE RATE OF NOT EXCEEDING 5.0 AIR CHANGES PER HOUR, TESTING SHALL BE CONDUCTED WITH A BLOWER DOOR AT A PRESSURE OF 0.2 INCHES W.G. NEW WOOD-BURNING FIREPLACES SHALL HAVE TIGHT-FITTING FLUE DAMPERS AND OUTDOOR COMBUSTION AIR PER R402.4.2
- WINDOWS, SKYLIGHTS AND SLIDING GLASS DOORS SHALL HAVE AN AIR INFILTRATION RATE PER R402.4.2

RECESSED LUMINARIES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE TYPE IC-RATED AND CERTIFIED UNDER ASTM E283 AS HAVING AN AIR LEAKAGE RATE PER R402.4.4

R403 SYSTEMS R403. I AT LEAST ONE THERMOSTAT SHALL BE PROVIDED FOR EACH SEPARATE HEATING AND

COOLING SYSTEM. WHERE THE PRIMARY HEATING SYSTEM IS A FORCED-AIR FURNACE, AT LEAST ONE

PROGRAMMABLE THERMOSTAT PER DWELLING UNIT SHALL BE INSTALLED PER R403. I . I UNITARY AIR COOLED HEAT PUMPS SHALL INCLUDE CONTROLS PER R403.1.2 R403.3 DUCTS AND AIR HANDLERS SHALL BE INSTALLED IN ACCORDANCE WITH SECTIONS R403.2.1 THROUGH R403.2.3

DUCTS SHALL BE INSULATED TO A MINIMUM OF R-8 PER R403.3.1 DUCTS, AIR HANDLERS, AND FILTER BOXES SHALL BE SEALED PER R403.3.2

- AIR HANDLERS SHALL HAVE A MANUFACTURER'S DESIGNATION FOR AN AIR LEAKAGE IN ACCORDANCE WITH ASHRAE 193 PER R403.3.2.1 PER R403.3.5, BUILDING FRAMING CAVITIES SHALL NOT BE USED AS DUCTS OR PLENUMS.
- INSTALLATION OF DUCTS IN EXTERIOR WALLS, FLOORS OR CEILINGS SHALL NOT DISPLACE REQUIRED ENVELOPE INSULATION DUCTS SHALL BE LEAK TESTED IN ACCORDANCE WITH WSU RS-33, USING THE MAXIMUM DUCT
- LEAKAGE SPECIFIED PER R403.3.3. TOTAL LEAKAGE MUST BE VERIFIED BY EITHER THE ROUGH-IN TEST OR
- POSTCONSTRUCTION TEST PER WSEC R403.3.3 TOTAL LEAKAGE MUST BE LESS THAN OR EQUAL TO 4 CFM PER 100 S.F. OF CONDITIONED FLOOR AREA WHEN TESTED AT A PRESSURE DIFFERENTIAL OF O. I "

W.G. (25 PA) ACROSS THE ENTIRE SYSTEM. R403.4 MECHANICAL SYSTEM PIPING CAPABLE OF CARRYING FLUIDS ABOVE 105°F OR BELOW 55°F SHALL BE INSULATED TO A MINIMUM OF R-6.

PIPING INSULATION EXPOSED TO WEATHER SHALL BE PROTECTED FROM DAMAGE PER R403.4.1

R403.5 ENERGY CONSERVATION MEASURES FOR SERVICE HOT WATER SYSTEMS SHALL BE IN ACCORDANCE WITH SECTIONS R403.5.1 THROUGH R403.5.5 CIRCULATING HOT WATER SYSTEMS SHALL BE INSTALLED PER R403.5.1.1

INSULATION FOR HOT WATER PIPE SHALL HAVE A MINIMUM THERMAL RESISTANCE (R-VALUE) OF R-3. (R403.5.3) 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. (R403.5.5)

R404 POWER AND LIGHTING SYSTEMS R404. I A MINIMUM OF 90 PERCENT OF PERMANENTLY INSTALLED LAMPS IN LIGHTING FIXTURES SHALL

BE HIGH-EFFICACY LAMPS. PER R404.1.1 FUEL GAS LIGHTING SYSTEMS SHALL NOT HAVE CONTINUOUSLY BURNING PILOT \bigcirc \mathcal{O} ₩ U \emptyset \mathcal{O} ш

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PERMIT SET

PROJECT NO: 20008 ISSUE DATE: SHT ISSUE DATE:2021/01/08

SCALE 24X36: * NOTE: | IXI7 SETS ARE REDUCED 50%; SCALE DRAWINGS ACCORDINGLY.

DRAWN BY:

		_	
Name	Area	Perimeter	Level
SLAB ON GRADE	162 SF	48'-0"	Level O
FLOOR INSUL	1518 SF	165'-6"	Level I
FLOOR INSUL	156 SF	48'-6"	Level I
CEILING - FLAT	73 SF	30'-0"	Level 2
FLOOR INSUL	290 SF	165'-6"	Level 2
FLOOR INSUL	39 SF	27'-0"	Level 2
CEILING - FLAT	1798 SF	194'-6"	T.O. PL Lvl2
CEILING - VAULT	91 SF	35'-0"	T.O. PL Lvl2

	ROOF VENTING SCHEDULE										
	AREA CALCULATIONS EAVE/PARAPET VENTING ROOF JACKS										KS
	CALCULATIONS					CALC	ULATIONS				
	GROSS	REQ'D		REQUIRED	% AT	REQUIRED	LF OF		REQUIRED	# OF	AREA
NAME	AREA	VENT AREA	NET AREA	VENTING	EAVES	EAVE	VENT	PROVIDED	JACKS	JACKS	PROVIDED
IA	71 SF	150	71 SF	0.47 SF	50%	0.24 SF	18	0.44 SF	0.24 SF	1	0.35 SF
IB	54 SF	150	54 SF	0.36 SF	50%	0.18 SF	16	0.39 SF	0.18 SF		0.35 SF
2A	1695 SF	300	1695 SF	5.65 SF	40%	2.26 SF	194	4.76 SF	3.39 SF	10	3.47 SF
2B	80 SF	150	80 SF	0.53 SF	100%	0.53 SF	18	0.44 SF	0.00 SF	0	0.00 SF

CRAWL SPACE VENTING									
	AREA CALCULATIONS VENTS REQUIRED VENTING PROVIDED								PROVIDED
				NET		VENT SIZE: 14" x			
				FREE		8" VENT AT .75	TOTAL VENTS	TOTAL VENTS	TOTAL VENTING
NAME	AREA	PERIMETER	NET AREA	AREA	VENTING REQUIRED	EFF	REQUIRED	SHOWN	AREA PROVIDED
I	823 SF	132'-6"	825 SF	300	2.75 SF	0.583	4.72	9	5 SF
II	138 SF	49'-5"	138 SF	300	0.46 SF	0.583	0.79	6	3 SF

SLAB ON
GRADE AREA: 162 SF
PERIMETER: 48'-0" LF

ROOF VENTING NOTES:

- (4) 2" DIA EAVE VENTS PER BLOCK= 5.024 SQ. IN. / L.F. (80% NET FREE AREA)
- ROOF JACKS = 50 SQ. IN. EACH
- INSTALL ONE LOW ROOF JACK, WITHIN 36" OF EAVE, FOR EVERY 12 LF OF EAVE WITHIN 60" OF PROPERTY LINE.
- MINIMUM NET AREA SHALL BE NOT LESS THAN I S.F. PER 150 S.F. OF ATTIC AREA OR 1 S.F. PER 300 S.F. OF ATTIC AREA IF 80% IS IN THE SOFFIT AND 20% IS AT LEAST 3' ABOVE THE PLATE LINE PER IRC SECTION R806.2 AND ENERGY REQUIREMENTS.
- AS AN ALTERNATIVE, THE NET FREE CROSS-VENTILATION AREA MAY BE REDUCED TO 1/300 WHEN A CLASS I OR II VAPOR BARRIER IS INSTALLED ON THE WARM-IN-WINTER SIDE OF THE

Area Sched	dule (F.A.R.)	
Name	Area	
arage	658 SF	
ower Floor	274 SF	
	933 SF	
laın Floor	1433 SF	
laın Flr (+20ft Clg)	59 SF	
laın Staırs	102 SF	<u>F.</u> Sl
	1593 SF	S

Upper Floor 1396 SF Upper Flr (+20ft Clg) 303 SF Upper Stairs 96 SF

1794 SF 4320 SF

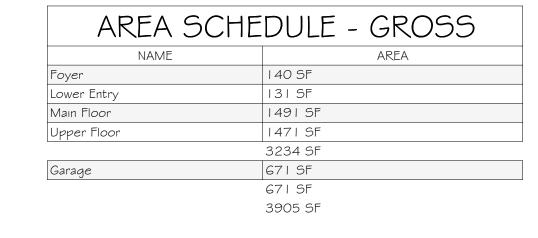
CRAWL SPACE VENTING NOTES:

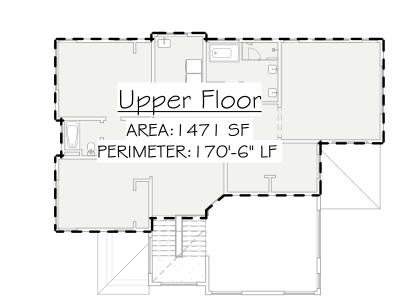
- THE UNCONDITIONED. UNDER-FLOOR. SPACE BETWEEN THE BOTTOM OF THE FLOOR JOISTS AND THE EARTH UNDER ANY BUILDING SHALL HAVE VENTILATION OPENINGS THROUGH FOUNDATION WALLS OR EXTERIOR WALLS.
- A GROUND COVER OF SIX MIL (0.006 INCH THICK BLACK POLYETHYLENE OR APPROVED EQUAL SHALL BE LAID OVER THE GROUND WITHIN CRAWL SPACES. THE GROUND COVER SHALL BE OVERLAPPED SIX INCHES MINIMUM AT THE JOINTS AND SHALL EXTEND TO THE FOUNDATION WALL.

THE GROUND COVER MAY BE OMITTED IN CRAWL SPACES IF THE CRAWL SPACE HAS A CONCRETE SLAB FLOOR WITH A MINIMUM THICKNESS OF TWO INCHES

- THE MINIMUM NET AREA OF VENTILATION OPENINGS SHALL NOT BE LESS THAN SQUARE FOOT FOR EACH 300 SQUARE FEET OF UNDER-FLOOR AREA. REQUIRED OPENINGS SHALL BE EVENLY PLACED TO PROVIDE CROSS VENTILATION OF THE SPACE EXCEPT ONE SIDE OF THE BUILDING SHALL BE PERMITTED TO HAVE NO
- VENTILATION OPENINGS. VENTILATION OPENINGS SHALL BE COVERED FOR THEIR HEIGHT AND WIDTH WITH ANY OF THE FOLLOWING MATERIALS PROVIDED THAT THE LEAST DIMENSION OF
 - THE COVERING SHALL NOT EXCEED 1/4 INCH:
 - PERFORATED SHEET METAL PLATES NOT LESS THAN 0.070 INCH THICK. EXPANDED SHEET METAL PLATES NOT LESS THAN 0.047 INCH THICK.
 - CAST-IRON GRILL OR GRATING.
 - EXTRUDED LOAD-BEARING BRICK VENTS. HARDWARE CLOTH OF 0.035 INCH (0.89 MM) WIRE OR HEAVIER.
 - CORROSION-RESISTANT WIRE MESH, WITH THE LEAST DIMENSION BEING

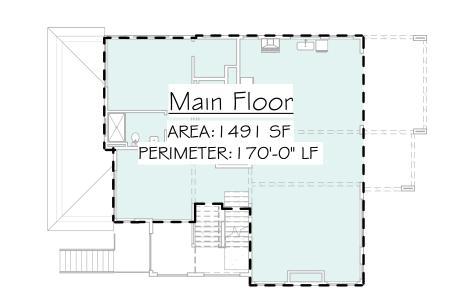
A.R. COVERAGE CALCUL	ATIONS:
BITE AREA: MAX COVERAGE:	19,325 SF 40%
PROPOSED AREA: PROPOSED COVERAGE:	4,320 SF <u>22.35%</u>





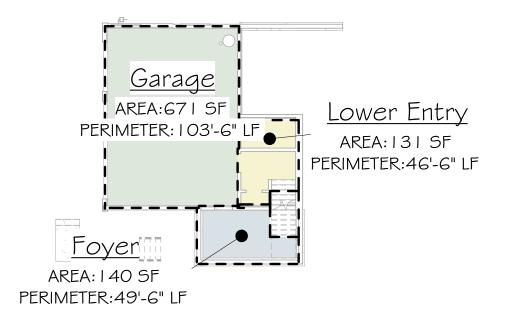
GROSS FLOOR AREA - UPPER FLR

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

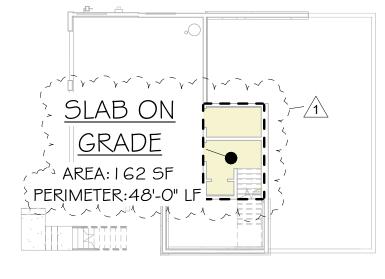


GROSS FLOOR AREA - MAIN FLR

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

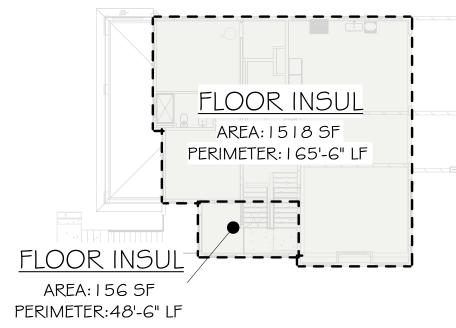


GROSS FLOOR AREA - LOWER FLR SCALE: 1/16" = 1'-0"

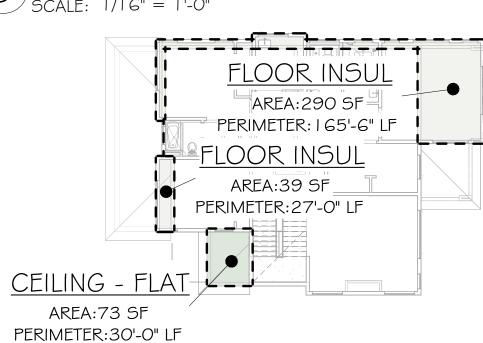


WSEC ENERGY CALCS - LOWER FLR

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

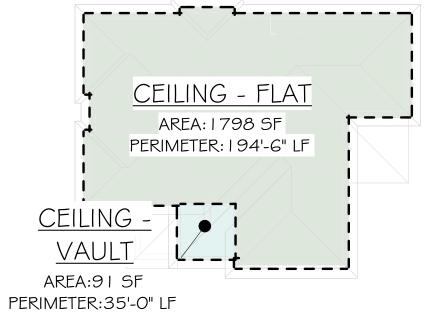


WSEC ENERGY CALCS - MAIN FLR

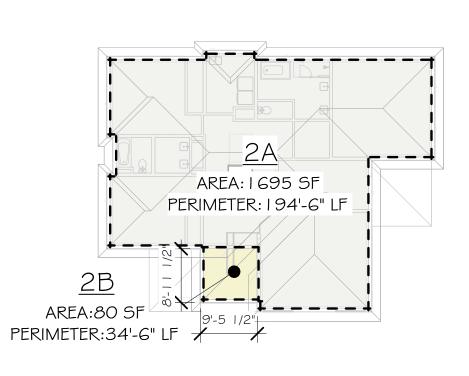


WSEC ENERGY CALCS - UPPER FLR

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

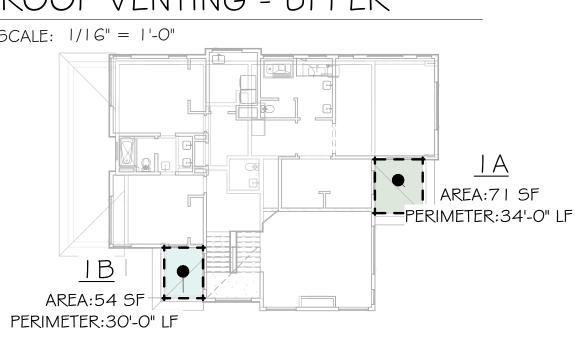


7 WSEC ENERGY CALCS - ROOF SCALE: 1/16" = 1'-0"

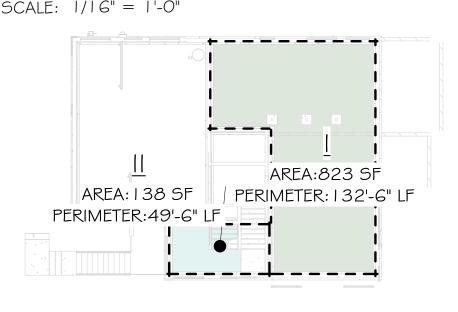


ROOF VENTING - UPPER

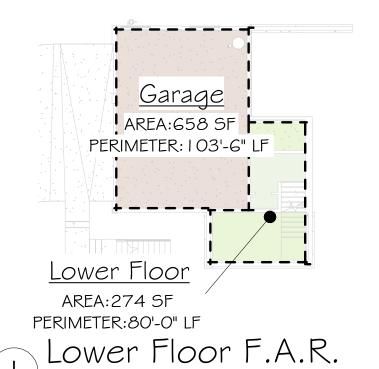
SCALE: 1/16" = 1'-0"



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



CRAWL SPACE VENTING

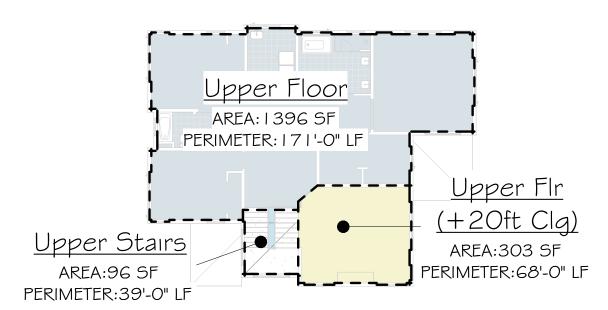


SCALE: 1/16" = 1'-0"

Main Floor AREA: 1433 SF PERIMETER: 170'-6" LF Main Flr (+20ft Clg AREA:59 SF_ PERIMETER:30'-0" LF Main Stairs

PERIMETER:41'-0" LF Main Floor F.A.R.

AREA: 102 SF



3 Upper Floor F.A.R.

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

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PERMIT SET

ENERGY/VENTING CALCULATIONS

ISSUE DATE: SHT ISSUE DATE: 2021/01/08

A003

SCALE 24X36: 1/16" = 1'-0" * NOTE: | | X | 7 SETS ARE REDUCED 50%; SCALE DRAWINGS ACCORDINGLY.

PER MICC 19.02.020(F)(3)(D) DEVELOPMENT PROPOSALS FOR A NEW SINGLE-FAMILY HOME SHALL REMOVE JAPANESE KNOTWEED (POLYGONUM CUSPIDATUM) AND REGULATED CLASS A, REGULATED CLASS B, AND REGULATED CLASS C WEEDS IDENTIFIED ON THE KING COUNTY NOXIOUS WEED LIST, AS AMENDED, FROM REQUIRED LANDSCAPING AREAS ESTABLISHED PURSUANT TO SUBSECTION (F)(3)(A) OF THIS SECTION. NEW LANDSCAPING ASSOCIATED WITH NEW SINGLE-FAMILY ~ HOME SHALL NOT INCORPORATE ANY WEEDS IDENTIFIED ON THE KING COUNTY NOXIOUS WEED LIST, AS AMENDED. ' PROVIDED, THAT REMOVAL SHALL NOT BE REQUIRED IF THE REMOVAL WILL RESULT IN INCREASED SLOPE INSTABILITY OR RISK OF LANDSLIDE OR EROSION.

HATCHING INDICATES AREAS OF 40% OR

SAVE AND MAINTAIN PROPER CLEARANCE.

GREATER SLOPES

SITE AREA: 19,325 SF ALLOWED GFA: 7,730 SF (40%) PROPOSED GFA: 3,950 SF (20.4%) ^{\(\)}

SAVE AND MAINTAIN PROPER

CLEARANCE.

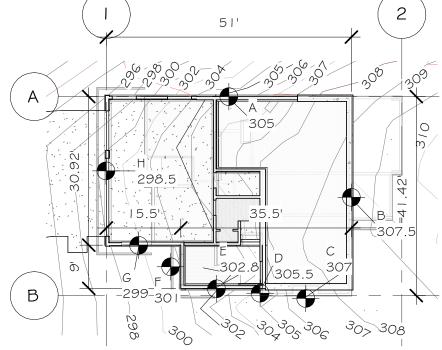
AND TREE RETENTION TABLE.

- SAVE AND MAINTAIN 25 FT

CLEARANCE.

TREE RETENTION CALCULATIONS: (19.10.010) HARDSCAPES: 9% LOT COVERAGE: 30% LOT AREA = 19,325 * 30% = MAX COVERAGE OF 5,797.5 SF REQUIRED: 30 PERCENT OF THE TREES WILL MAX HARDSCAPE OF 1,740.87 SF NEED TO BE RETAINED. TREES THAT ARE LIKELIHOOD FOR LONG-TERM SURVIVAL ARE Lower Roof PRIORITIZED FOR RETENTION AREA:81 SF Bldg/Roof PROPOSED: Driveway PERIMETER:36'-0" LF AREA:2485 SF AREA: 1062 SF PERIMETER:222'-0" LF PERIMETER: 141'-0" LF LOT COVERAGE CALCULATIONS: > SITE AREA: 19,325 SF ACCESS ESMT: -- SF > NET AREA: 19,325 SF IMPERVIOUS AREAS: PERVIOUS DECKING AREA: 127 SF % OF LOT AREA: 14% (2566+127)/19,325 PERIMETER:71'-0" LF _^1_^1_^1_^1__^1__ 2 LOT COVERAGE CALCULATIONS

SCALE: I" = 20'-0"



3 AVERAGE BLDG HT CALCULATIONS

SCALE: | " = 20'-0"

A.B.E. CHART A.B.E. DATA A.B.E. CALCULATIONS SEGMENT LENGTH (ELEV * LENGTH) MID PT ELEV 307.5 41.92 12890.4 5833 611 305.5 302.8 18.54 5613.912 301 2709 299 13.46 4024.54 298.5 30.92 9229.62

56466.472 185.84 AVERAGE BUILDING ELEVATION (A.B.E.) CALCULATIONS: $\frac{56,466.472}{185.84} = \frac{303.84}{\text{ELEVATION (A.B.E.)}}$

5022 W MERCER WAY EXISTING S.F.R. YARDS: (19.02.020C) FRONT: 20 FT MIN REAR: 25 FT MIN SIDES: 7.5 FT MIN SIDES: 7.5 FT MIN CRAWL FF: 306.06.7 SLAB ON GRADE AT FOYER.
PROPOSED +/- 18 TO 24" CUT PROPOSED +/- 24" CUT MAXARBORIST TREE SITE PLAN DENOTES TREES TO BE REMOVED, TYP — NOTE: SEE CIVIL PLANS FOR PROPOSED UTILITY LOCATIONS 5026 W MERCER WAY EXISTING S.F.R. PRIVATE ROAD \$ 12 UTILITY EASEMENT P RECORDING NUMBER CATCH BASIN

- FIRE HYDRANT

0' 10' 20'

WATERCOURSE

BUFFER PER

EXISTING D.B.H.: 875.6"

RETAINED D.B.H.: 576.4"

REMOVED D.B.H.: 299.2"

(576.4 / 875.6 = 193

65.8% RETAINED



Sa Residence

PERMIT SET

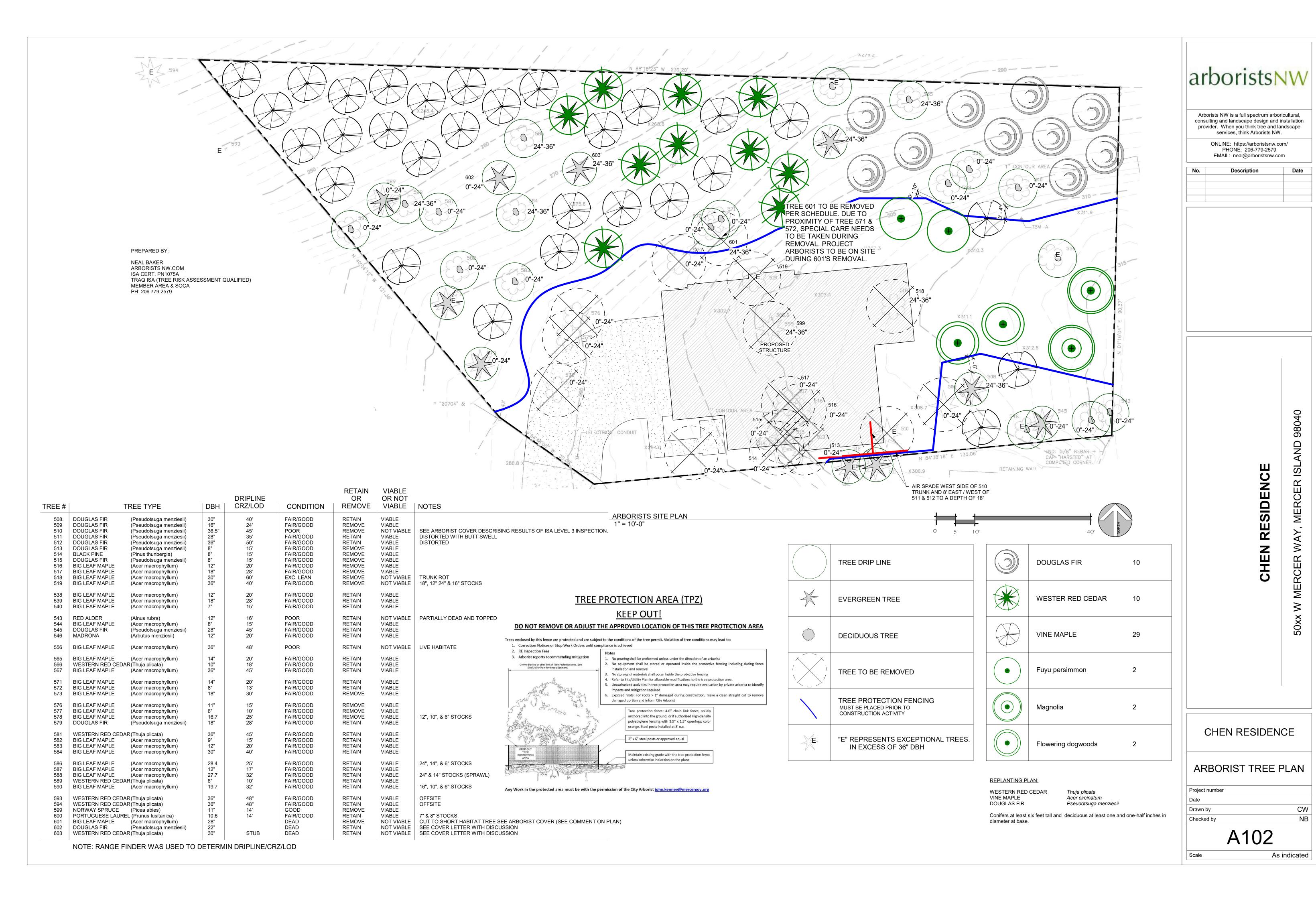
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SITE PLAN & AREA/HT CALCULATIONS

PROJECT NO: ISSUE DATE: TBD SHT ISSUE DATE:2021/01/08 DRAWN BY:

A101

SCALE 24X36: As indicated * NOTE: | | X | 7 SETS ARE REDUCED 50%; SCALE DRAWINGS ACCORDINGLY.



:022 9:34:10 PM

Door Schedule

DOOR PANEL

Mark

100 Horz Sliding Dbl-Vent

110 Horz Sliding Half-Vent

1 1 2 Horz Sliding Half-Vent

Horz Sliding Dbl-Vent

Horz Sliding Half-Vent

WIDTH HT COUNT CONTRUCTION

6'-8" | 4 | H.C.

6'-0"

5'-0"

3'-0"

8'-0"

8'-0"

TYP WINDOW NOTES:

I. SEE ARCHITECTURAL FLOOR PLANS FOR WINDOW LOCATIONS AND

DESIGNATIONS. SEE ELEVATIONS & BUILDING SECTIONS FOR WINDOW HEAD/SILL LOCATIONS.

2. ALL RESIDENTIAL WINDOWS ARE BASED UPON MILGARD VINYL WINDOWS. EXCEPT AS NOTED.

3. ALL WINDOWS SHALL HAVE THROUGH-WINDOW AIR INLETS AS PER WASHINGTON

STATE VENTILATION CODE.

1. SEE SHEET AOOI FOR GENERAL CONSTRUCTION

GENERAL PLAN NOTES:

SPECIFICATIONS.

2. SEE BUILDING ELEVATIONS FOR WINDOW OPERATION.

3. SEE "TYPICAL BUILDING MATERIALS" LIST ON THE

ELEVATION SHEET(s). 4. FOR THE SYMBOLS & LEGEND SEE SHEET A000

5. SEE STRUCTURAL SHEETS FOR SHEARWALL DESIGNATIONS & HOLDDOWNS AND SHEET 5100 FOR SHEARWALL DETAILS/ SCHEDULE.

KEYNOTES - FLOORPLAN

GARAGE/HOUSE OCCUPANCY SEPARATION. PER IRC R302.6 a) 1/2"

P-2 DOOR BETWEEN GARAGE AND HOUSE SHALL BE EQUIPED WITH A SELF-CLOSING DEVICE, AND BE A MIN 1 3/8" THICK SOLID WOOD

P-3 STAIR ASSEMBLY: PER IRC SECTION R3 | 1.7" a) WIDTH 36" MIN.; HEADROOM 6'-8" MIN. b) RISER 7-3/4" MAX.; TREAD 10" MIN. c) TOP OF HANDRAIL AT 34" MIN. AND 38" MAX ABOVE TREAD NOSING d) HANDRAIL WIDTH 1-1/4" MIN. AND 2" MAX. e) INSTALL FIRE BLOCKING IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN. f) COVER USABLE SPACE UNDER STAIR WITH

P-5 EGRESS WINDOW PER IRC SECTION R3 I O. PROVIDE MIN NET MIN SILL HEIGHT TO BE 44" A.F.F.

P-G IGNITERS: A) FOR GAS FIRED APPLIANCES IN GARAGE TO BE 18" MIN ABOVE TOP OF SLAB, PROVIDE (2) LAYERS OF FLOOR SHEATHING OVER FRAMING.. PER IRC SECTION G2408. B) HEAT-PRODUCING EQUIPMENT AND APPLIANCES SHALL BE INSTALLED TO MAINTAIN THE REQUIRED CLEARANCES TO COMBUSTIBLE CONSTRUCTION AS SPECIFIED IN THE LISTING AND MANUFACTURER'S INSTRUCTIONS. PER IRC G2408.5

COVER WALLS ADJACENT TO TUBS AND SHOWERS WITH

ENERGY CODE COMPLIANCE FORMS. a) PROVIDE DUCT LEAKAGE, SEALING & TESTING PER WSEC 502 & 503. b) THERMOSTAT PER WSEC

RISERS HANDRAIL REQUIRED PER IRC SECTION R3 | 1.7.7. a) PROVIDE 36"x36" MIN. LANDING AT EXTERIOR DOORS PER IRC SECTION R3 | 1.3 P-10 PROVIDE CRAWL SPACE ACCESS, MIN. 18" X 24" UNOBSTRUCTED

P-13 | FIREPLACE ASSEMBLY. PER IRC CHAPTER 10. a) FACTORY-BUILT FIREPLACES TO BE INSTALLED PER MFR. PER IRC SECTION R I 004. b). INSTALL MASONRY FIREPLACES PER IRC SECTION R I 003. c). HEARTH

P-17 2x6 WALL FOR PLUMBING / HVAC.

ELECTRICAL DISTRIBUTION PANEL. SEE WSEC SECTION 105 ON SHEET

KEYNOTES - FOUNDATION

FINISH w/ W I .4xW I .4 WWF ON 4" GRANULAR FILL. SLOPE TO AND

PROVIDE THICKENED EDGE AT O.H. GAR DOOR. PER IRC SECTION

SPACE CALCULATIONS THIS SHEET.

FP-12 MAT FOOTING PER FTG STRUCTURAL. SEE DETAILS FOR ADDITIONAL

FP-16 EXTEND PIER MIN. 18" BELOW SURROUNDING GRADE. PER IRC TABLE

GYP. AT GARAGE SIDE BETWEEN RESIDENCE AND ATTIC. b) 5/8" TYPE 'X' GYP IS REQUIRED WHERE THERE IS LIVING SPACE ABOVE. c) 1/2" GYP. AT SUPPORTING COLUMNS, WALLS AND BEAMS ABOVE."

DOOR OR 20 MIN. F.R. DOOR, PER IRC SECTION R302.5.1

P-4 SAFETY GLAZING PER IRC SECTION R308.4

CLEARANCE OF 5 SF AT GRADE FLOOR OPENINGS AND 5.7 SF ABOVE.

NONABSORBENT MATERIAL TO 72" ABOVE DRAIN INLETS. PER IRC SECTION R307.2. FOR GROUND FLR WASTE OPENING REQ SEE UPC NOTES ON SHT AOO I

P-8 HIGH EFFICIENCY GAS FURNACE, SIZE PER WSEC PRESCRIPTIVE 503.8. c) SEE WSEC NOTES ON SHEET AOO I

P-9 7-3/4 MAX. RISER WITH 10" MIN. TREAD DEPTH. IF MORE THAN (4)

ACCESS. PER IRC SECTION R408.4 P-11 PROVIDE ATTIC ACCESS, MIN. 22" X 30" WITH 30" MIN. HEADROOM AT UNOBSTRUCTED READILY ACCESSIBLE OPENING. PER IRC SECTION

SHALL CONFORM TO IRC REQUIREMENTS.

P-15 36" MIN. GUARDRAIL. AT STAIRS SLOPES AT 36" ABOVE STAIR

NOSINGS. PER SEE IRC SECTION 3 | 2 P-16 B' VENT FOR MECHANICAL. I" CLEARANCE ALL SIDES.

P-18 A PERMANENT CERTIFICATE SHALL BE POSTED WITHIN 36" OF THE

P-19 | 3" DIA GALV BOLLARD OR EQ PER G2408.3 \$ M1307.3.1

FP-3 CONCRETE SLAB ON GRADE SHALL BE 4" THICK STEEL TROWLED

FP-4 | 14"x8" CRAWL SPACE VENT INSTALLED IN RIM JOIST. SEE CRAWL

FP-5 | CRIPPLE WALL w/ 2x6 OR 3x4 STUDS @ 16" O.C. U.N.O. PER IRC SECTION R602.9.

FP-8 6 MIL BLACK POLYETHYLENE GROUND COVER OR APPROVED EQ. OVERLAP EDGES | 2" MIN AT JOINTS AND EXTEND UP FOUNDATION WALL. PER WSEC 502.1.6.7.

INFORMATION.

PERMIT SET

ATERA HOMES

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SHT ISSUE DATE:2021/01/08

PROJECT NO: ISSUE DATE:

DRAWN BY:

AREA SCHEDULE - GROSS					
NAME	AREA				
r	140 SF				
r Entry	131 SF				
Floor	1491 SF				
er Floor	1471 SF				

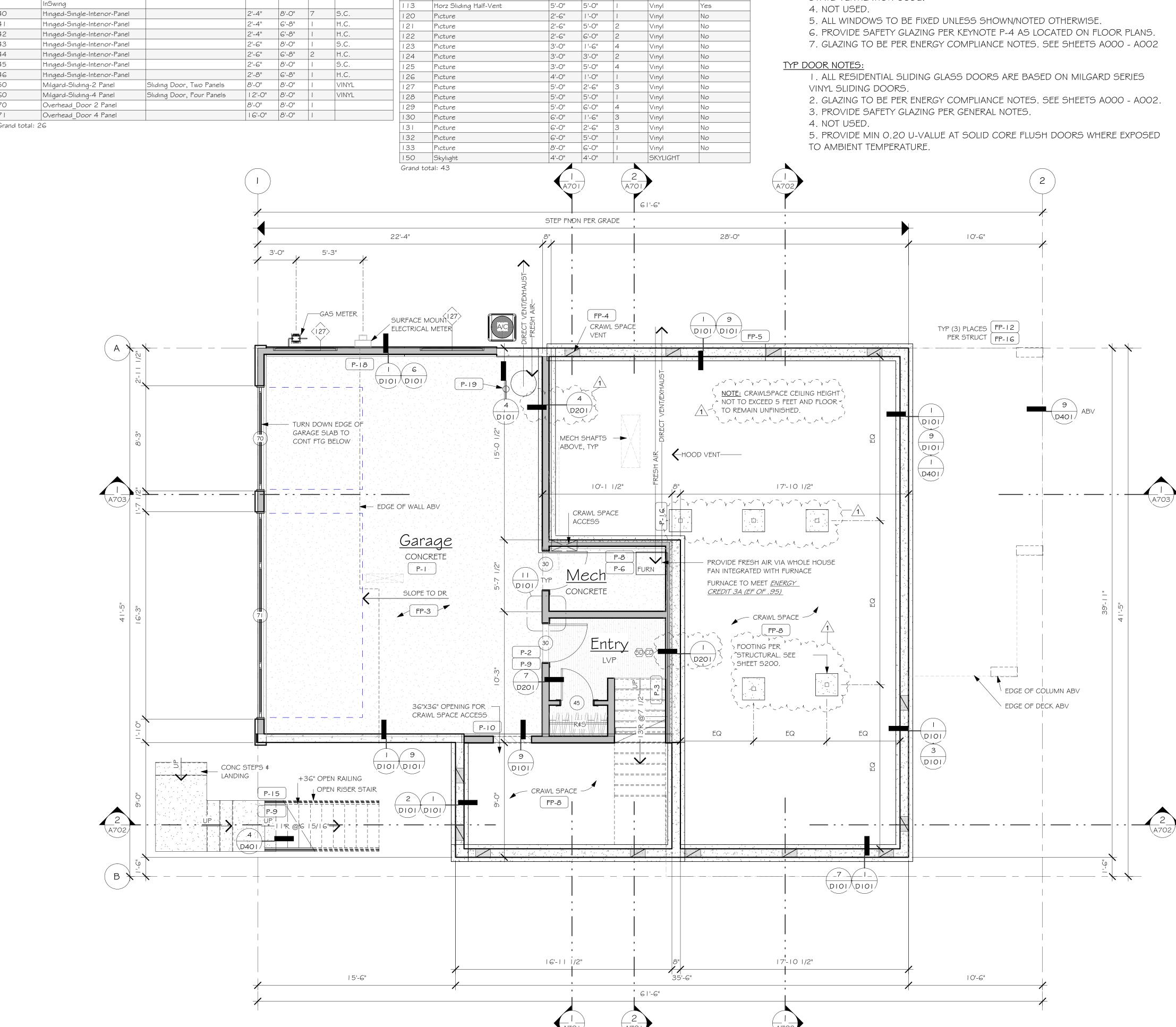
3234 SF

671 SF

671 SF

3905 SF

SCALE 24X36: 1/4" = 1'-0" * NOTE: | IXI7 SETS ARE REDUCED 50%; SCALE DRAWINGS ACCORDINGLY.



Window Schedule

8'-0" 5'-0"

8'-0" 6'-0"

4'-0" 4'-0"

5'-0" 3'-6"

5'-0" 4'-0"

COUNT DESCRIPTION

Vinyl

Vinyl

IS EGRESS

GENERAL PLAN NOTES:

1. SEE SHEET AOO I FOR GENERAL CONSTRUCTION

SPECIFICATIONS.

2. SEE BUILDING ELEVATIONS FOR WINDOW OPERATION. 3. SEE "TYPICAL BUILDING MATERIALS" LIST ON THE

ELEVATION SHEET(s).

4. FOR THE SYMBOLS & LEGEND SEE SHEET A000

DESIGNATIONS & HOLDDOWNS AND SHEET \$100 FOR SHEARWALL DETAILS/ SCHEDULE.

KEYNOTES - FLOORPLAN

- GARAGE/HOUSE OCCUPANCY SEPARATION. PER IRC R302.6 a) 1/2" GYP. AT GARAGE SIDE BETWEEN RESIDENCE AND ATTIC. b) 5/8" TYPE 'X' GYP IS REQUIRED WHERE THERE IS LIVING SPACE ABOVE. c) 1/2" GYP. AT SUPPORTING COLUMNS, WALLS AND BEAMS ABOVE."
- P-2 DOOR BETWEEN GARAGE AND HOUSE SHALL BE EQUIPED WITH A SELF-CLOSING DEVICE, AND BE A MIN 1 3/8" THICK SOLID WOOD DOOR OR 20 MIN. F.R. DOOR. PER IRC SECTION R302.5. I
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P-4 SAFETY GLAZING PER IRC SECTION R308.4

- P-5 EGRESS WINDOW PER IRC SECTION R3 | O. PROVIDE MIN NET CLEARANCE OF 5 SF AT GRADE FLOOR OPENINGS AND 5.7 SF ABOVE. MIN SILL HEIGHT TO BE 44" A.F.F.
- P-6 IGNITERS: A) FOR GAS FIRED APPLIANCES IN GARAGE TO BE 18" MIN ABOVE TOP OF SLAB, PROVIDE (2) LAYERS OF FLOOR SHEATHING OVER FRAMING.. PER IRC SECTION G2408. B) HEAT-PRODUCING EQUIPMENT AND APPLIANCES SHALL BE INSTALLED TO MAINTAIN THE REQUIRED CLEARANCES TO COMBUSTIBLE CONSTRUCTION AS SPECIFIED IN THE LISTING AND MANUFACTURER'S INSTRUCTIONS. PER IRC G2408.5
- P-7 COVER WALLS ADJACENT TO TUBS AND SHOWERS WITH NONABSORBENT MATERIAL TO 72" ABOVE DRAIN INLETS. PER IRC SECTION R307.2. FOR GROUND FLR WASTE OPENING REQ SEE UPC NOTES ON SHT AOO I
- P-8 HIGH EFFICIENCY GAS FURNACE, SIZE PER WSEC PRESCRIPTIVE ENERGY CODE COMPLIANCE FORMS. a) PROVIDE DUCT LEAKAGE, SEALING & TESTING PER WSEC 502 & 503. b) THERMOSTAT PER WSEC 503.8. c) SEE WSEC NOTES ON SHEET A001
- P-9 7-3/4 MAX. RISER WITH 10" MIN. TREAD DEPTH. IF MORE THAN (4) RISERS HANDRAIL REQUIRED PER IRC SECTION R3 | 1.7.7. a) PROVIDE 36"x36" MIN. LANDING AT EXTERIOR DOORS PER IRC SECTION R3 | 1.3
- P-10 PROVIDE CRAWL SPACE ACCESS, MIN. 18" X 24" UNOBSTRUCTED ACCESS. PER IRC SECTION R408.4
- P-11 PROVIDE ATTIC ACCESS, MIN. 22" X 30" WITH 30" MIN. HEADROOM AT UNOBSTRUCTED READILY ACCESSIBLE OPENING. PER IRC SECTION
- P-13 FIREPLACE ASSEMBLY. PER IRC CHAPTER 10. a) FACTORY-BUILT FIREPLACES TO BE INSTALLED PER MFR. PER IRC SECTION R I 004. b). INSTALL MASONRY FIREPLACES PER IRC SECTION R 1 003. c). HEARTH SHALL CONFORM TO IRC REQUIREMENTS.
- P-15 36" MIN. GUARDRAIL. AT STAIRS SLOPES AT 36" ABOVE STAIR NOSINGS. PER SEE IRC SECTION 312
- B' VENT FOR MECHANICAL. I" CLEARANCE ALL SIDES.
- P-17 2x6 WALL FOR PLUMBING / HVAC.
- P-18 A PERMANENT CERTIFICATE SHALL BE POSTED WITHIN 36" OF THE ELECTRICAL DISTRIBUTION PANEL. SEE WSEC SECTION 105 ON SHEET

AREA SCHEDULE - GROSS

140 SF 131 SF

1491 SF

1471 SF 3234 SF

671 SF

671 SF

3905 SF

| P-19 | 3" DIA GALV BOLLARD OR EQ PER G2408.3 \$ M1307.3.1

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ATERA HOMES

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<u>|S</u>|

PERMIT SET

MAIN FLOOR

A30	1
DRAWN BY:	(
SHT ISSUE DATE:20	21/0
ISSUE DATE:	
PROJECT NO:	20

SCALE 24X36: 1/4" = 1'-0" * NOTE: | | X | 7 SETS ARE REDUCED 50%; SCALE DRAWINGS ACCORDINGLY.

Door Schedule DOOR PANEL TYPE MARK DOOR STYLE WIDTH HT COUNT CONTRUCTION Hinged-Double-Exterior-Entranc 6'-0" 8'-0" e, InSwing Hinged-Double-Interior-Panel 3'-6" 6'-8" Hinged-Double-Interior-Panel 5'-0" | 6'-8" | 4 3'-0" 8'-0" Hinged-Single-Exterior-Panel, Hinged-Single-Interior-Panel 2'-4" 8'-0" 2'-4" 6'-8" Hinged-Single-Interior-Panel Hinged-Single-Interior-Panel 2'-4" 6'-8" Hinged-Single-Interior-Panel 2'-6" 8'-0" Hinged-Single-Interior-Panel 2'-6" 6'-8" H.C. 8'-0" Hinged-Single-Interior-Panel 2'-6" Hinged-Single-Interior-Panel 2'-8" 6'-8" 8'-0" 8'-0" VINYL Milgard-Sliding-2 Panel Sliding Door, Two Panels

Sliding Door, Four Panels Milgard-Sliding-4 Panel 12'-0" 8'-0" VINYL Overhead Door 2 Panel 8'-0" Overhead Door 4 Panel 16'-0" 8'-0" Grand total: 26

TYP WINDOW NOTES:

I. SEE ARCHITECTURAL FLOOR PLANS FOR WINDOW LOCATIONS AND DESIGNATIONS. SEE ELEVATIONS & BUILDING SECTIONS FOR WINDOW HEAD/SILL LOCATIONS.

2. ALL RESIDENTIAL WINDOWS ARE BASED UPON MILGARD VINYL WINDOWS. EXCEPT

AS NOTED. 3. ALL WINDOWS SHALL HAVE THROUGH-WINDOW AIR INLETS AS PER WASHINGTON

STATE VENTILATION CODE.

4. NOT USED. 5. ALL WINDOWS TO BE FIXED UNLESS SHOWN/NOTED OTHERWISE.

6. PROVIDE SAFETY GLAZING PER KEYNOTE P-4 AS LOCATED ON FLOOR PLANS.

7. GLAZING TO BE PER ENERGY COMPLIANCE NOTES. SEE SHEETS A000 - A002

TYP DOOR NOTES:

I. ALL RESIDENTIAL SLIDING GLASS DOORS ARE BASED ON MILGARD SERIES

VINYL SLIDING DOORS. 2. GLAZING TO BE PER ENERGY COMPLIANCE NOTES. SEE SHEETS A000 - A002.

3. PROVIDE SAFETY GLAZING PER GENERAL NOTES.

4. NOT USED.

OPEN TO BELOW -

3'-5 3/4"

10'-6"

5. PROVIDE MIN 0.20 U-VALUE AT SOLID CORE FLUSH DOORS WHERE EXPOSED

TO AMBIENT TEMPERATURE.

Grand total: 43 7'-0" 16'-0" 9'-0" 29'-6" 13'-0" 3'-0" 12'-0 1/2" 17'-5 1/2" 6'-6 1/2" 6'-6 1/4" 5'-6 1/2" 3'-0" 2'-6" 2'-2 1/2" 6'-6 1/4" |||| P-4 /_P-4__ BEXED SOAKING - MUD SET SHWR P-7 <u>Lndry</u> +84" TALL GLASS TILE D Mstr Bath Bdrm #2 CARPET P-5 SOUND BATTS Mstr Bdrm Jack/Jill P-5 5'-10 1/2" TILE

Window Schedule

8'-0" 5'-0"

8'-0" 6'-0"

4'-0" 4'-0"

5'-0" 3'-6"

5'-0" 4'-0"

2'-6" | 1'-0"

2'-6" 6'-0"

5'-0" 5'-0"

6'-0" 5'-0"

8'-0" 6'-0"

4'-0" 4'-0"

5'-0"

5'-0"

1'-6"

3'-0"

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2'-6"

3'-0"

3'-0"

3'-0"

4'-0"

5'-0"

5'-0"

6'-0"

6'-0"

100 Horz Sliding Dbl-Vent

112 Horz Sliding Half-Vent

120 Picture

122 Picture

124 Picture

126 Picture

128 Picture

130 Picture

150 Skylight

125

127

129

132

133

P-5

7'-0"

11'-3"

13'-0"

15'-6 1/2"

Picture

Picture

Picture

Picture

Picture

Picture

Picture

Picture

Horz Sliding Dbl-Vent

Horz Sliding Half-Vent

Horz Sliding Half-Vent

Horz Sliding Half-Vent

COUNT DESCRIPTION

Vinyl

SKYLIGHT

IS EGRESS

P-4 (130) 4-0X4-0 SKYLIGHT Walk-In 3'-5 1/2" 12'-0 1/2" CARPET CARPET 9'-11" 8'-5 1/2" -+36" OPEN RAILING

<131>

. 9'-5 1/2"

4'-6"

3'-5 3/4"

4'-11 1/2"

GENERAL PLAN NOTES:

1. SEE SHEET AOOI FOR GENERAL CONSTRUCTION SPECIFICATIONS.

2. SEE BUILDING ELEVATIONS FOR WINDOW OPERATION.

3. SEE "TYPICAL BUILDING MATERIALS" LIST ON THE ELEVATION SHEET(s).

4. FOR THE SYMBOLS & LEGEND SEE SHEET _A000

5. SEE STRUCTURAL SHEETS FOR SHEARWALL DESIGNATIONS & HOLDDOWNS AND SHEET \$100 FOR SHEARWALL DETAILS/ SCHEDULE.

KEYNOTES - FLOORPLAN

GYP. AT GARAGE SIDE BETWEEN RESIDENCE AND ATTIC. b) 5/8" TYPE 'X' GYP IS REQUIRED WHERE THERE IS LIVING SPACE ABOVE. c) 1/2" GYP.

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NOSINGS. PER SEE IRC SECTION 3 | 2

P-18 A PERMANENT CERTIFICATE SHALL BE POSTED WITHIN 36" OF THE ELECTRICAL DISTRIBUTION PANEL. SEE WSEC SECTION 105 ON SHEET

P-I GARAGE/HOUSE OCCUPANCY SEPARATION. PER IRC R302.6 a) 1/2" AT SUPPORTING COLUMNS, WALLS AND BEAMS ABOVE."

CLEARANCE OF 5 SF AT GRADE FLOOR OPENINGS AND 5.7 SF ABOVE.

SPECIFIED IN THE LISTING AND MANUFACTURER'S INSTRUCTIONS. PER IRC G2408.5

NOTES ON SHT A001

503.8. c) SEE WSEC NOTES ON SHEET AOO I

P-10 PROVIDE CRAWL SPACE ACCESS, MIN. 18" X 24" UNOBSTRUCTED

SHALL CONFORM TO IRC REQUIREMENTS.

P-15 36" MIN. GUARDRAIL. AT STAIRS SLOPES AT 36" ABOVE STAIR

P-16 B' VENT FOR MECHANICAL. I" CLEARANCE ALL SIDES. P-17 2x6 WALL FOR PLUMBING / HVAC.

P-19 3" DIA GALV BOLLARD OR EQ PER G2408.3 \$ M1307.3.1

esidence

pu

ATERA HOMES

PERMIT SET

UPPER FLOOR

F		
F	A40)1
AREA	DRAWN BY:	SPM
_E - GROSS	SHT ISSUE DATE:2	2021/01/08
F CDOGG	ISSUE DATE:	TBD
	PROJECT NO:	20008

SCALE 24X36: 1/4" = 1'-0"* NOTE: | IXI7 SETS ARE REDUCED 50%; SCALE DRAWINGS ACCORDINGLY.

AREA SCHEDUL 140 SF 131 SF Lower Entry Main Floor 1491 SF 1471 SF 3234 SF 671 SF 671 SF 3905 SF

HOLDDOWNS AND SHEET <u>\$100</u> FOR SHEARWALL DETAILS/ SCHEDULE. 3. TRUSS DESIGN BY MANUFACTURER. TRUSS DESIGN DRAWINGS SHALL BE

PREPARED PER IRC SECTION R802.10.1 AND SHALL BE PROVIDED TO THE BUILDING OFFICIAL AND APPROVED PRIOR TO INSTALLATION. * TRUSS DESIGN PER IRC SECTION R802.10.2

* FIELD ALTERATIONS MUST BE DESIGNED BY MFR. PER IRC SECTION R802.10.4 AS OCCUR AT SOFFITS, DROP CLGS AND COVE CLGS. * SEE STRUCTURAL PLANS FOR DESIGN LOADS.

* TRUSS MFR TO PROVIDE ADEQUATE BEARING AREA TO RESOLVE REACTION (PERPENDICULAR TO GRAIN) AT ALL HIGHLY LOADED GIRDER TRUSSES.

4. PROVIDE 2x4 RAFTER/TRUSS TAIL - TYP. U.N.O.

5. ROOF PITCH: EXTERIOR PER ELEVATIONS & INTERIOR PER SECTIONS.

6. ROOF FRAMING SPACING, 24" o.c. U.N.O.

7. SEE ELEVATIONS AND/OR SECTIONS FOR ROOF PITCH, PLATE HEIGHT AND HEADER HEIGHT.

8. FASTENERS: ALL FRAMING SHALL BE NAILED IN ACCORDANCE WITH THE STRUCTURAL DRAWINGS. POSITIVE CONNECTIONS SHALL BE PROVIDED WHERE

POSTS AND BEAM OR GIRDER CONSTRUCTION IS USED TO SUPPORT FLR FRAM'G. 9. INSTALL 2X FIREBLOCKING PER R302.11 AS FOLLOWS:

a) IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, AS FOLLOWS, VERT AT THE CLG AND FLR LEVELS AND HORZ AT INTERVALS NOT EXCEEDING 10 FEET. b) AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERT AND HORZ SPACES SUCH

c) IN CONCEALED SPACES BTWN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN. ENCLOSED SPACES UNDER STAIRS SHALL COMPLY WITH SECTION R302.7. d) AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES AND WIRES AT CEILING AND FLOOR LEVEL, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION. THE MATERIAL FILLING THIS ANNULAR SPACE SHALL NOT BE REQUIRED TO MEET THE ASTM E 136 REQUIREMENTS. THE INTEGRITY OF ALL FIREBLOCKS SHALL BE MAINTAINED.

I O. SEE SHT A003 FOR ROOF & CRAWL SPACE AREA VENTILATION

CALCULATIONS

KEYNOTES - FRAMING

CALCULATIONS ON SHEET A003. FR-8 HIGH EFFICIENCY GAS FURNACE, SIZE PER WSEC PRESCRIPTIVE ENERGY CODE COMPLIANCE FORMS. a) PROVIDE DUCT LEAKAGE, SEALING & TESTING PER WSEC 502 \$ 503. b) THERMOSTAT PER WSEC 503.8.

c) SEE WSEC NOTES ON SHEET AOO I

FR-13 SEE ELEVATIONS AND SECTIONS FOR PLATE HEIGHT.





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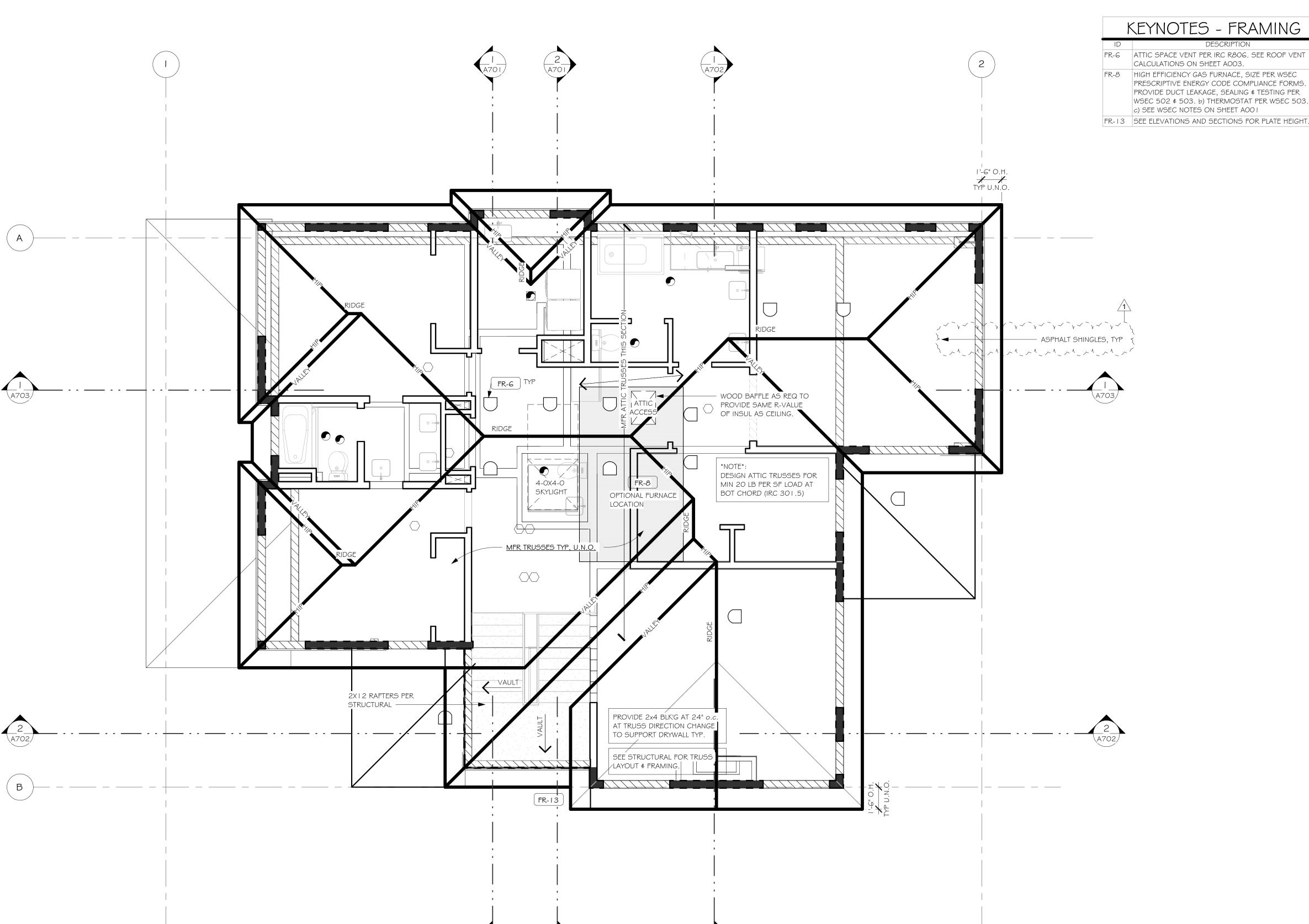
PERMIT SET

ROOF PLAN

PROJECT NO: ISSUE DATE: SHT ISSUE DATE:2021/01/08

A501

SCALE 24X36: 1/4" = 1'-0" * <u>NOTE:</u> | IX17 SETS ARE REDUCED 50%; SCALE DRAWINGS ACCORDINGLY.



2 EAST ELEVATION

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

TYPICAL BUILDING MATERIALS:

ROOF CONSTRUCTION

(ASPHALT SHINGLES) **ROOFING:** 15# BUILDING PAPER BUILDING PAPER: SHEATHING: PER SHEARWALL SCHEDULE FRAMING: PER PLANS INSULATION: R-49 BLOWN-IN (R-38 VAULTED)

HARDIE PANEL SOFFIT SOFFIT: GWB: 5/8" GWB

FLOOR CONSTRUCTION

FLOORING: FINISH PER PLANS

SUBFLOOR: 3/4" T&G (PLYWOOD, COMPLY OR EQUAL)

PER PLANS

INSULATION: R-38 BATT

HARDIE PANEL SOFFIT SOFFIT:

EXTERIOR WALL CONSTRUCTION

SIDING MATERIAL: PER ELEVATIONS BUILDING PAPER: 15# BUILDING PAPER SHEATHING: PER SHEARWALL SCHEDULE FRAMING: 2x6 STUDS AT 16" oc U.N.O.

INSULATION: R-2 | BATT w/ INTEGRAL VAPOR BARRIER GWB: 1/2" GWB

<u>TRIM</u>

WINDOW:

CORNER BOARDS:

FRAMING:

5/4x4 WRAP (WITH NO BRICK MOLD) INSIDE: 2x2

OUTSIDE: MTL 'X' FLASHING FASCIA: 2x8 w/ 2x3 (PER DETAILS) U.N.O.

ELEVATION NOTES:

- I. INSTALL APPROVED CORROSION-RESISTANT FLASHING, TO PREVENT ENTRY OF WATER INTO THE WALL CAVITY OR PENETRATION OF WATER TO THE BUILDING STRUCTURAL FRAMING COMPONENTS PER R708.3. SELF-ADHERED MEMBRANES USED AS FLASHING SHALL COMPLY WITH AAMA 7 | |. THE FLASHING SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH. APPROVED CORROSION-RESISTANT FLASHINGS SHALL BE INSTALLED AT ALL OF THE FOLLOWING
- a. EXTERIOR WINDOW AND DOOR OPENINGS. FLASHING AT EXTERIOR WINDOW AND DOOR OPENINGS SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH OR TO THE WATER-RESISTIVE BARRIER FOR SUBSEQUENT DRAINAGE.
- b. AT THE INTERSECTION OF CHIMNEYS OR OTHER MASONRY CONSTRUCTION WITH FRAME OR STUCCO WALLS, WITH PROJECTING LIPS ON BOTH SIDES UNDER STUCCO COPINGS. c. UNDER AND AT THE ENDS OF MASONRY, WOOD OR METAL
- COPINGS AND SILLS. d. CONTINUOUSLY ABOVE ALL PROJECTING WOOD TRIM.
- e. WHERE EXTERIOR PORCHES, DECKS OR STAIRS ATTACH TO A WALL OR FLOOR ASSEMBLY OF WOOD-FRAME CONSTRUCTION.
- f. AT WALL AND ROOF INTERSECTIONS.
- g. AT BUILT-IN GUTTERS.

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ELEVATIONS

PERMIT SET

PROJECT NO: ISSUE DATE: SHT ISSUE DATE:2021/01/08

DRAWN BY:

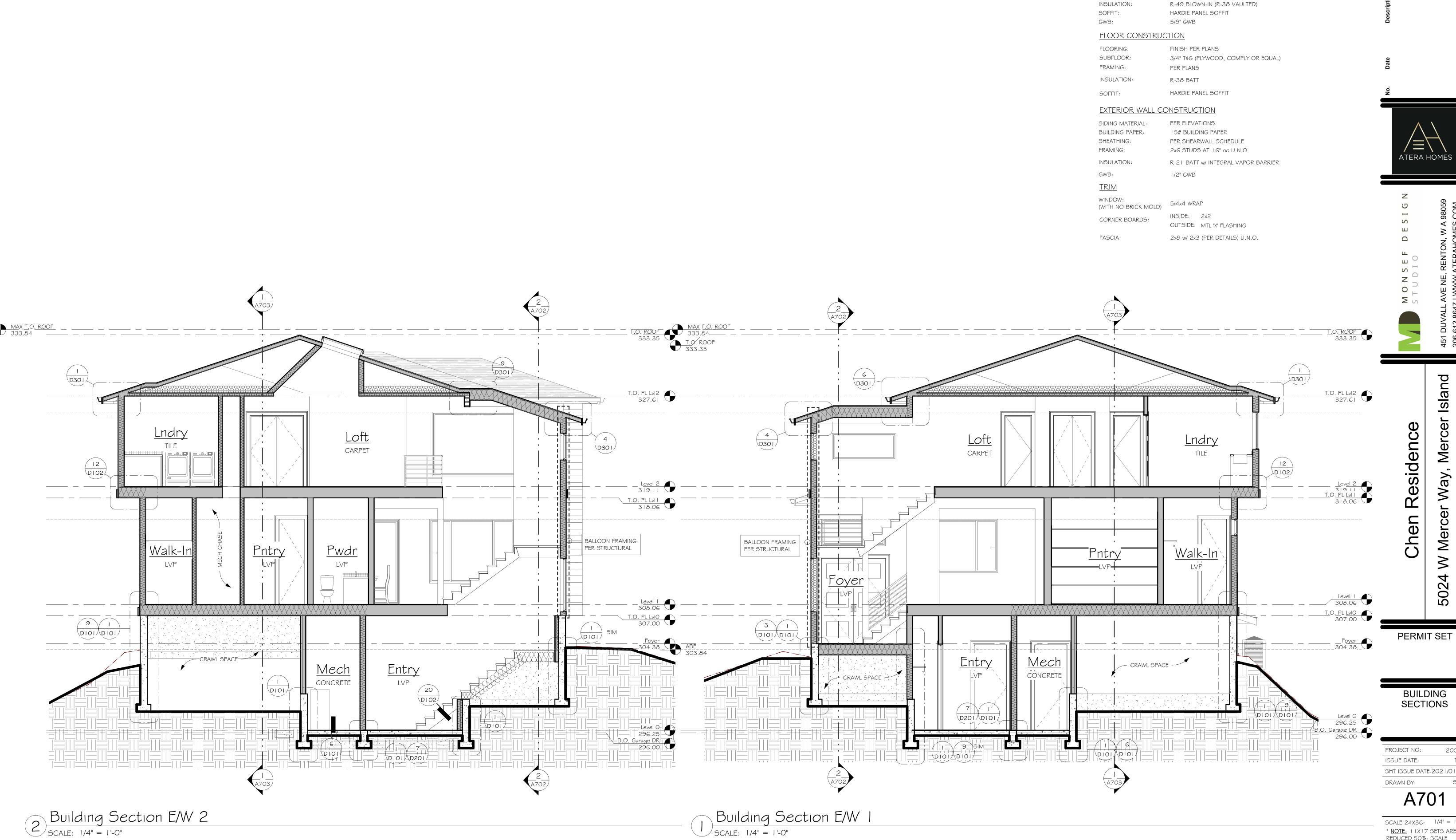
A601

SCALE 24X36: As indicated * NOTE: | | X | 7 SETS ARE REDUCED 50%; SCALE DRAWINGS ACCORDINGLY.



WEST ELEVATION

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



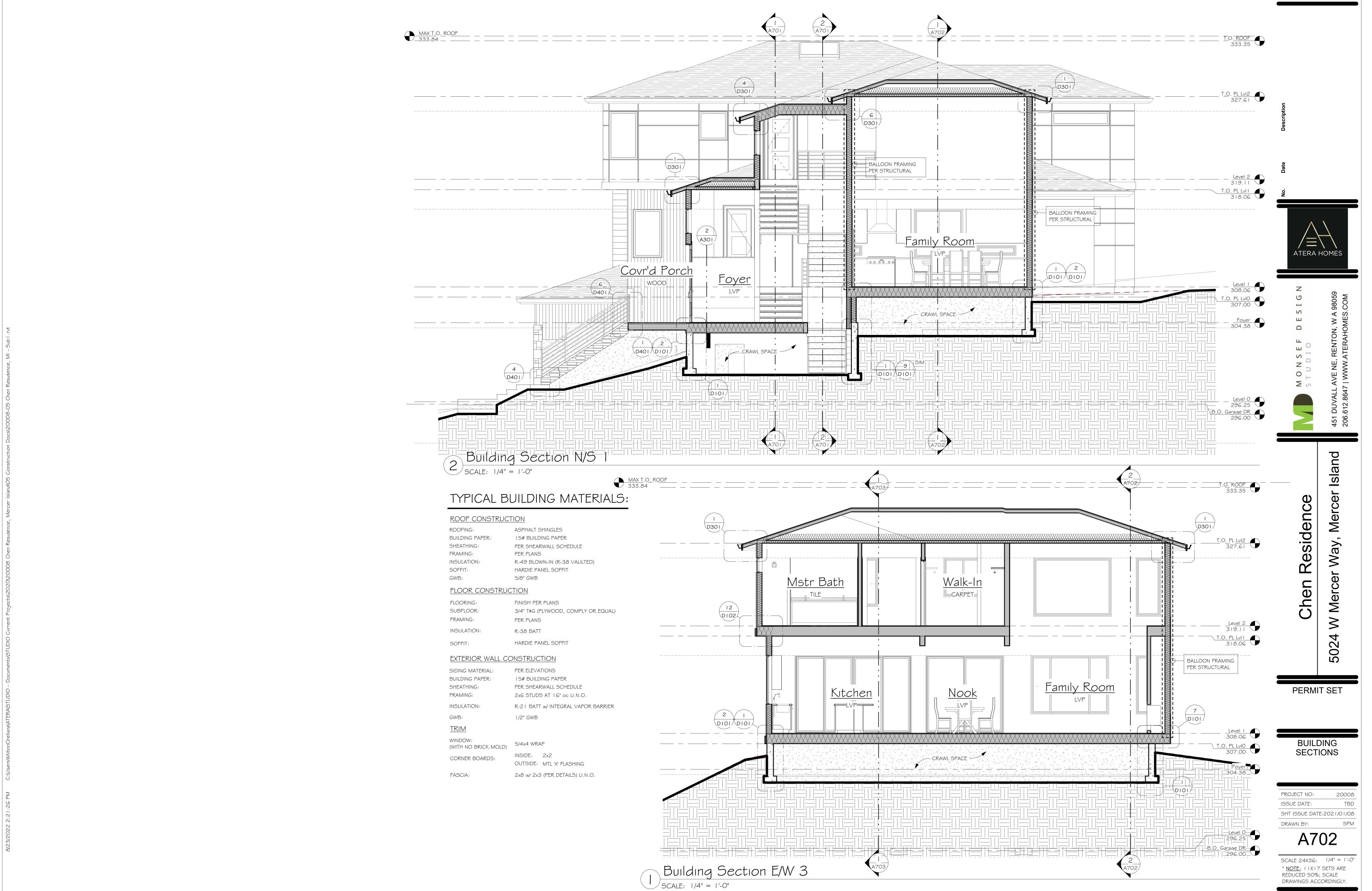
TYPICAL BUILDING MATERIALS:

ROOF CONSTRUCTION

ROOFING: ASPHALT SHINGLES 15# BUILDING PAPER BUILDING PAPER: SHEATHING: PER SHEARWALL SCHEDULE FRAMING: PER PLANS

SHT ISSUE DATE:2021/01/08

* NOTE: 11X17 SETS ARE REDUCED 50%; SCALE DRAWINGS ACCORDINGLY.



TYPICAL BUILDING MATERIALS:

ROOF CONSTRUCTION

ROOFING: ASPHALT SHINGLES 15# BUILDING PAPER BUILDING PAPER: SHEATHING: PER SHEARWALL SCHEDULE FRAMING: PER PLANS INSULATION: R-49 BLOWN-IN (R-38 VAULTED)

SOFFIT: HARDIE PANEL SOFFIT GWB: 5/8" GWB

FLOOR CONSTRUCTION

FINISH PER PLANS FLOORING: SUBFLOOR: 3/4" T&G (PLYWOOD, COMPLY OR EQUAL)

FRAMING: PER PLANS INSULATION: R-38 BATT

HARDIE PANEL SOFFIT SOFFIT:

EXTERIOR WALL CONSTRUCTION

PER ELEVATIONS SIDING MATERIAL: BUILDING PAPER: 15# BUILDING PAPER PER SHEARWALL SCHEDULE SHEATHING: 2x6 STUDS AT 16" oc U.N.O. FRAMING:

INSULATION: R-2 | BATT w/ INTEGRAL VAPOR BARRIER

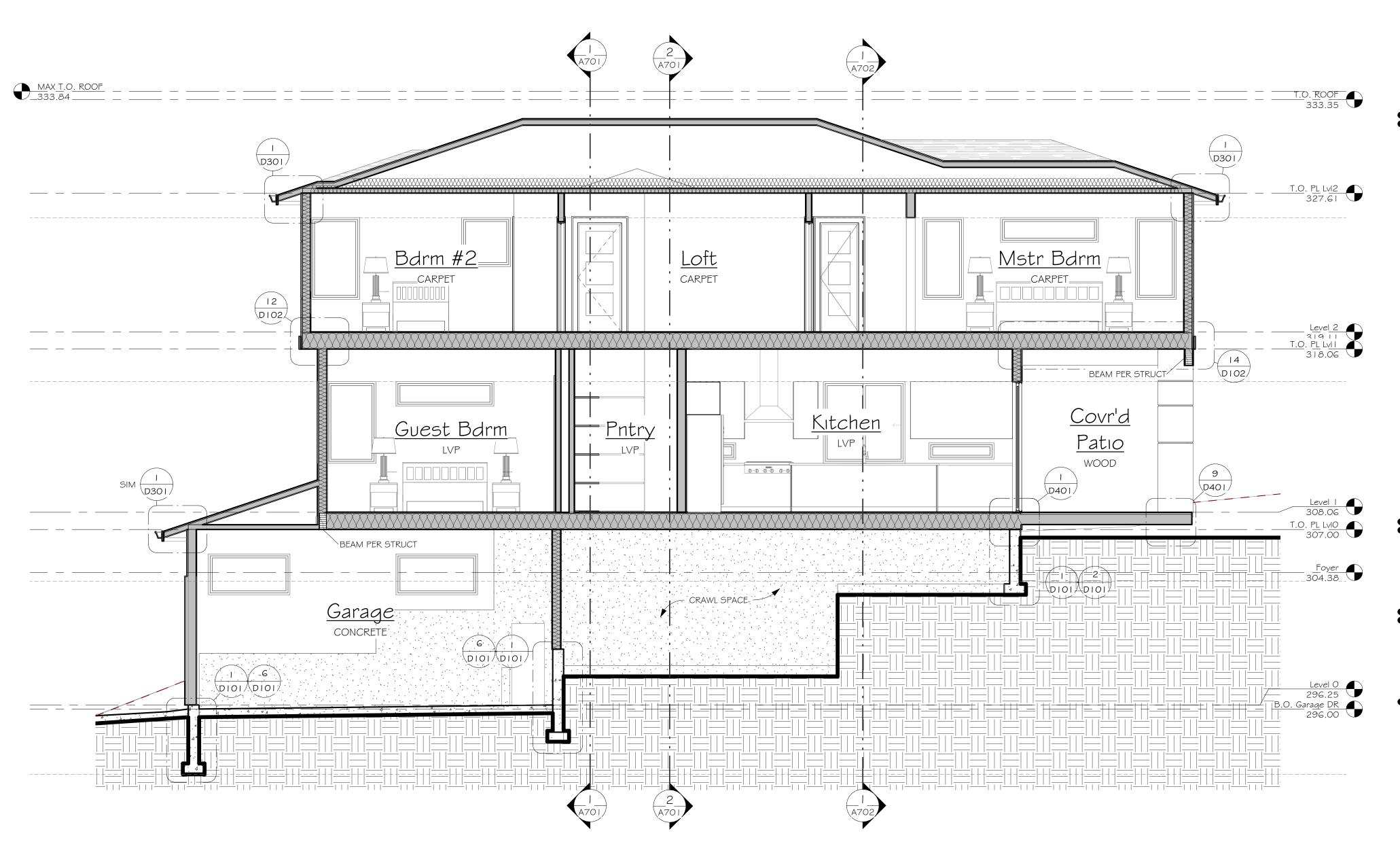
GWB: 1/2" GWB

<u>TRIM</u>

WINDOW: 5/4x4 WRAP (WITH NO BRICK MOLD)

INSIDE: 2x2 CORNER BOARDS: OUTSIDE: MTL 'X' FLASHING

FASCIA: 2x8 w/ 2x3 (PER DETAILS) U.N.O.





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PERMIT SET

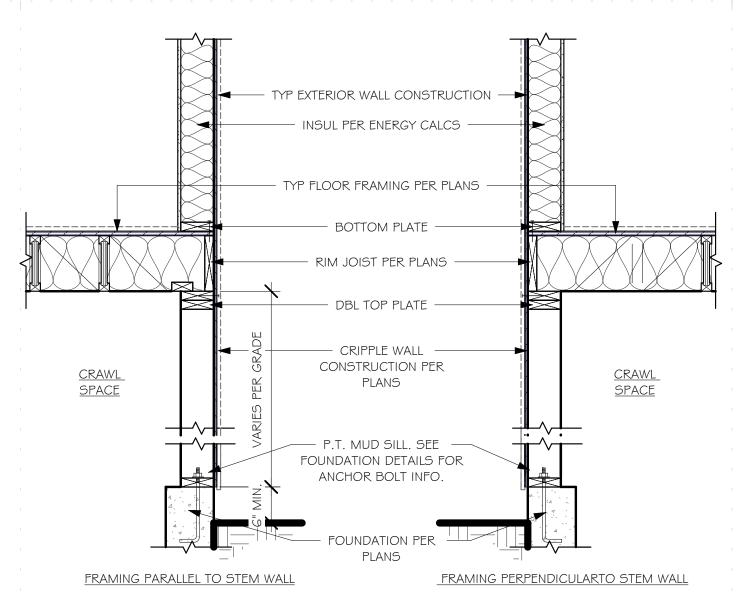
BUILDING SECTIONS

PROJECT NO: ISSUE DATE: TBD SHT ISSUE DATE:2021/01/08 DRAWN BY:

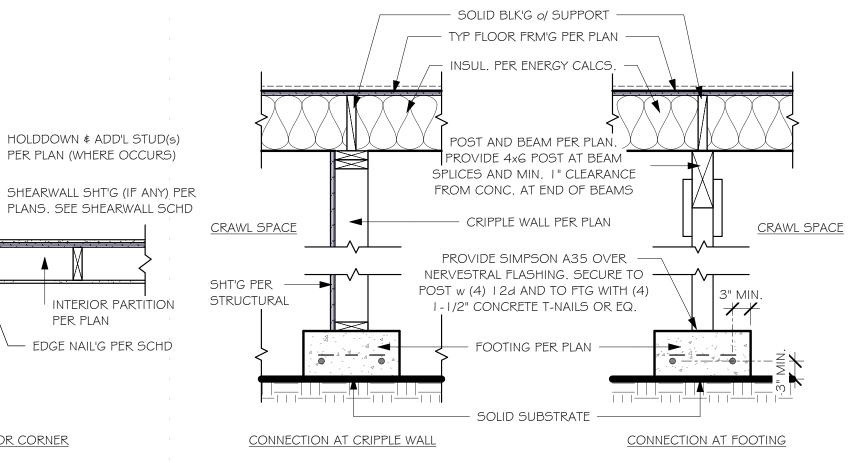
A703

SCALE 24X36: 1/4" = 1'-0"

* NOTE: 11X17 SETS ARE
REDUCED 50%; SCALE
DRAWINGS ACCORDINGLY.



CRIPPLE WALL AT FOUNDATION



POST / FTG CONNECTION SCALE: 3/4" = 1'-0"

- HOLDDOWN & ADD'L STUD(s)

PER PLAN (WHERE OCCURS)

INTERIOR PARTITION

PER PLAN

INTERIOR CORNER

- INSUL PER

ENERGY CALCS

TYP EXTERIOR WALL

CONSTRUCTION

PANEL EDGE PER

SHEARWALL SCHD

SHEARWALL SHT'G

EDGE NAIL'G PER

—— 2XG BACKER FOR G.W.B.

INT/EXT WALL FRAMING DETAIL

SCHD

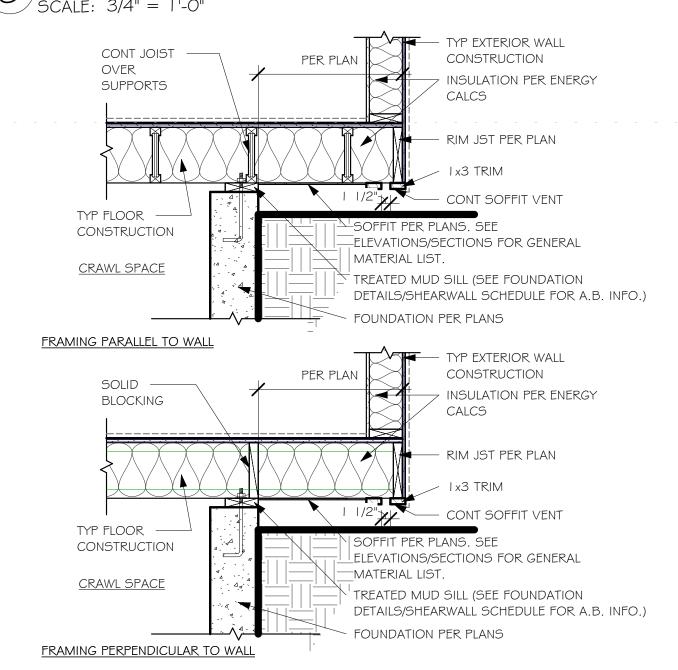
HOLDDOWN & ADD'L

SCALE: 3/4" = 1'-0"

MODIFIED TWO STUD CORNER

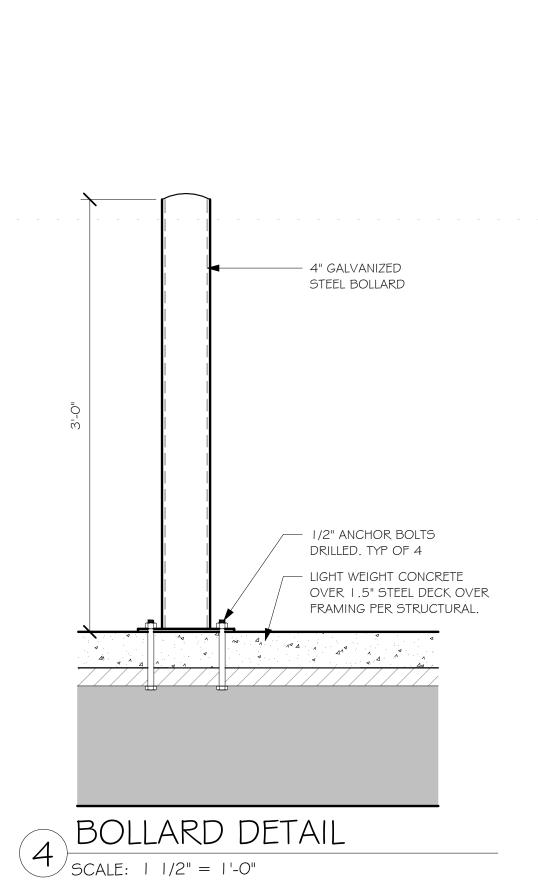
STUD(s) PER PLAN

(WHERE OCCURS)



CANTILEVER FRM'G AT FNDN.

SCALE: 3/4" = 1'-0"



<u>GARAGE</u>

CONC SLAB ON ---

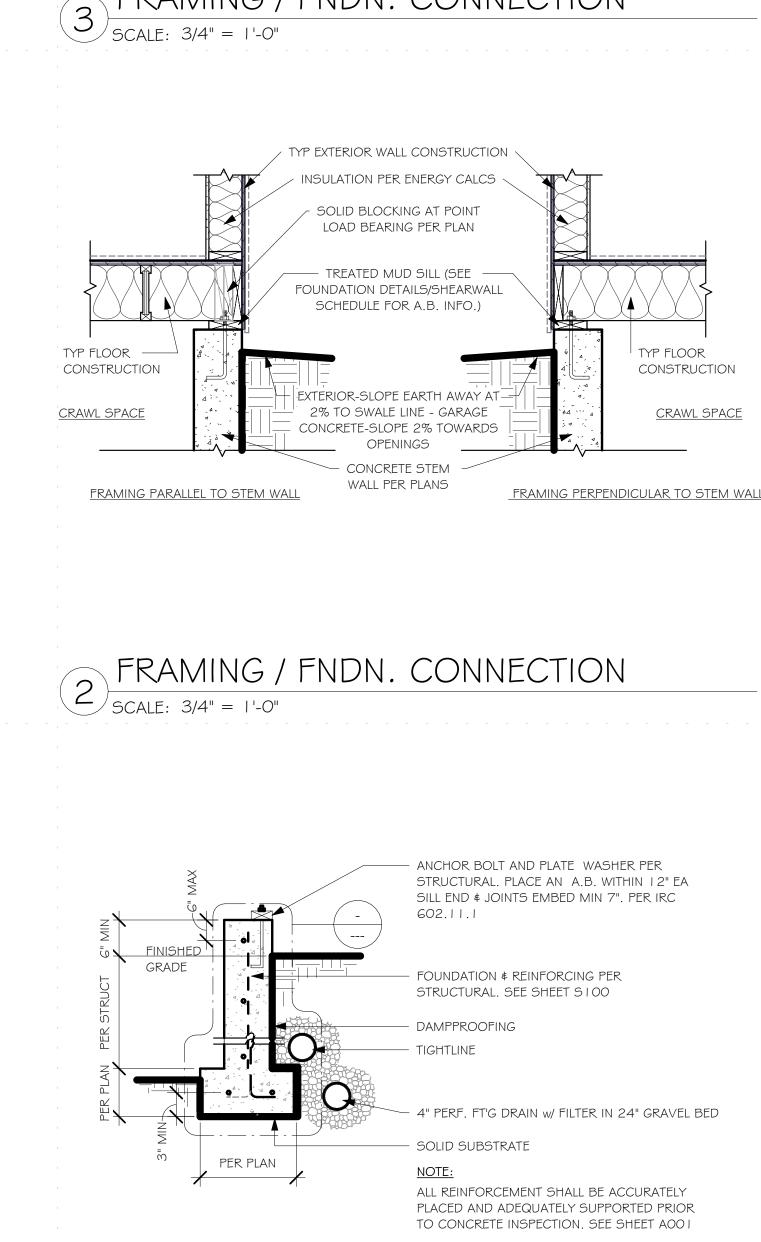
GRADE PER PLANS

<u>EXTERIOR</u>

- TYP EXTERIOR WALL CONSTRUCTION

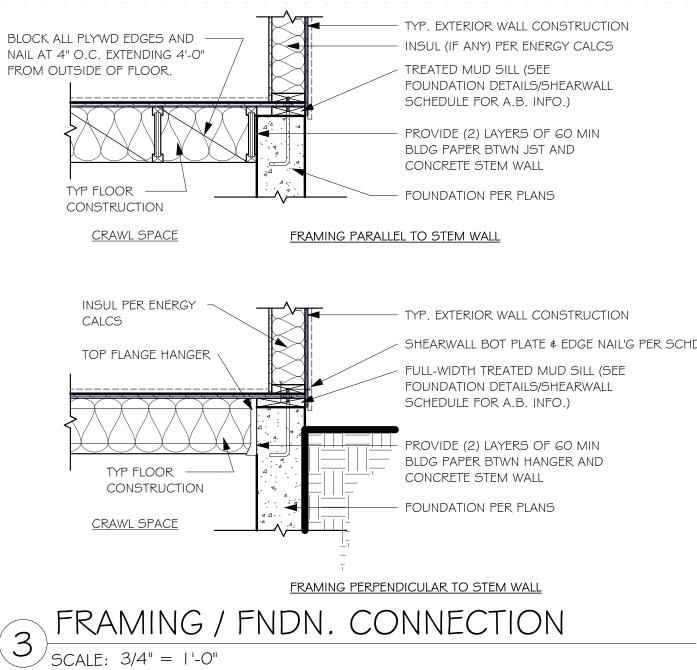
SEE DIOI FOR FOUNDATION NOTES/INFORMATION

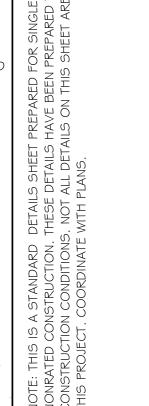
- FOUNDATION PER PLANS



FOUNDATION DETAIL

SCALE: 3/4" = 1'-0"





TYP FLOOR

CONSTRUCTION

CRAWL SPACE

SH

DETAIL

ANDARD



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FOUNDATION & FRAMING DETAILS

PROJECT NO: 20008 ISSUE DATE: TBD SHT ISSUE DATE:2021/01/08 DRAWN BY:

D101

SCALE 24X36: As indicated * NOTE: | | X | 7 SETS ARE REDUCED 50%; SCALE DRAWINGS ACCORDINGLY.

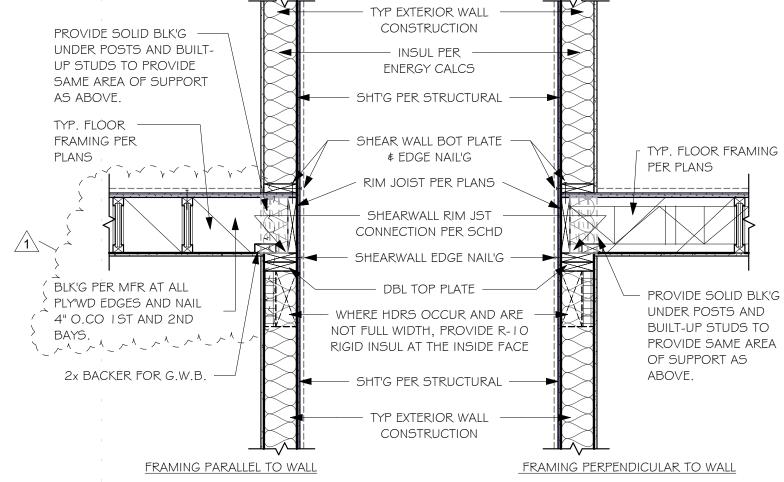
STAIR SECTION DETAIL

SCALE: 3/4" = 1'-0"

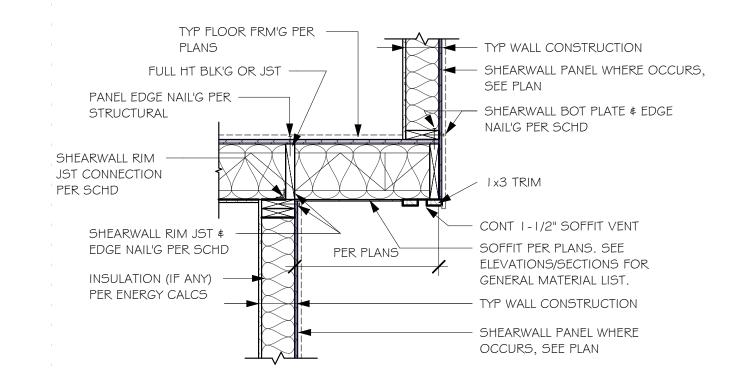
PER PLANS TYP FLOOR FRM'G PER TYP WALL CONSTRUCTION FULL HT BLK'G ---— SHEARWALL PANEL WHERE OCCURS, SEE PLAN PANEL EDGE NAIL'G PER -— SHEARWALL BOT PLATE \$ EDGE STRUCTURAL NAIL'G PER SCHD SHEARWALL RIM -JST CONNECTION PER SCHD EXTERIOR FINSH PER PLANS. SHEARWALL RIM JST \$ EDGE NAIL'G PER SCHD — BEAM PER PLANS. CONT 1-1/2" SOFFIT VENT INSULATION (IF ANY) -PER ENERGY CALCS SOFFIT PER PLANS. SEE ELEVATIONS FOR GENERAL MATERIAL LIST. TYP EXTERIOR WALL CONSTRUCTION -SHEARWALL PANEL WHERE OCCURS, SEE PLAN

CANTILEVER FRM'G AT EXT. WALL

SCALE: 3/4" = 1'-0"



SCALE: 3/4" = 1'-0"





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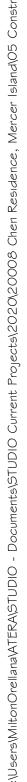
STANDARD

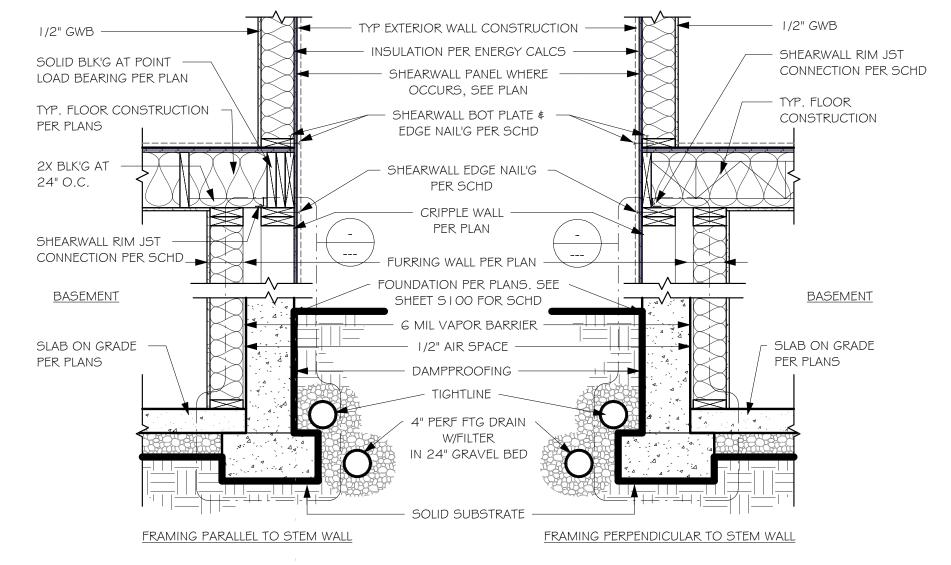
FRAMING **DETAILS**

PROJECT NO: 20008 ISSUE DATE: TBD SHT ISSUE DATE:2021/01/08 DRAWN BY:

D102

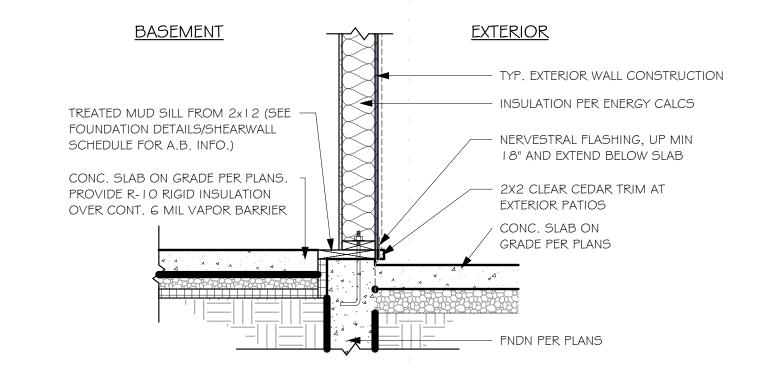
SCALE 24X36: 3/4" = 1'-0" * NOTE: | | X | 7 SETS ARE REDUCED 50%; SCALE DRAWINGS ACCORDINGLY.



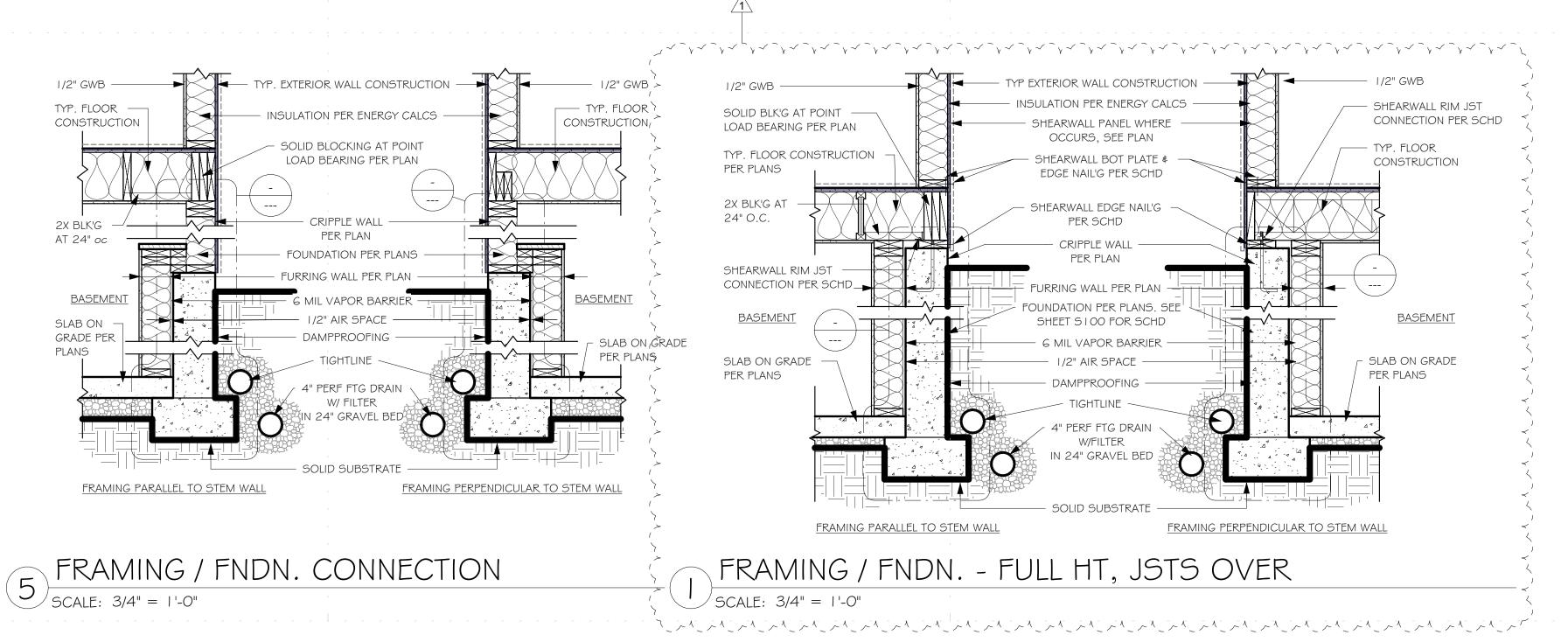


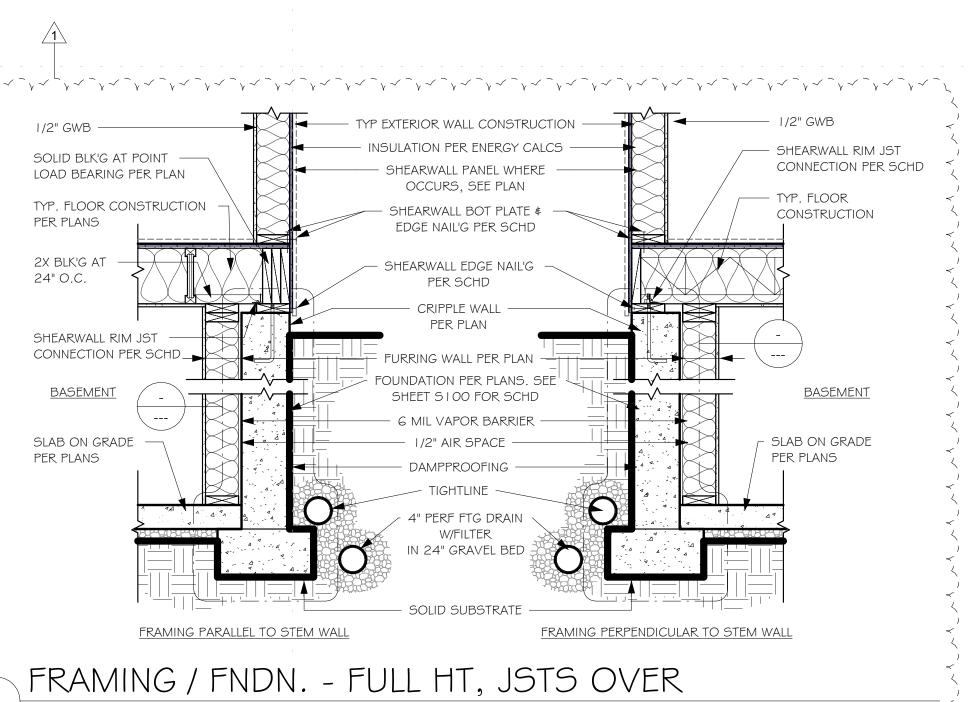
FRAMING / FNDN. - CRIPPLE WALL

SCALE: 3/4" = 1'-0"









PERMIT SET BASEMENT **DETAILS**

SHEE

DETAIL

STANDARD

PROJECT NO: ISSUE DATE: SHT ISSUE DATE:2021/01/08 DRAWN BY: D201

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SCALE 24X36: 3/4" = 1'-0" * NOTE: | | X | 7 SETS ARE REDUCED 50%; SCALE DRAWINGS ACCORDINGLY



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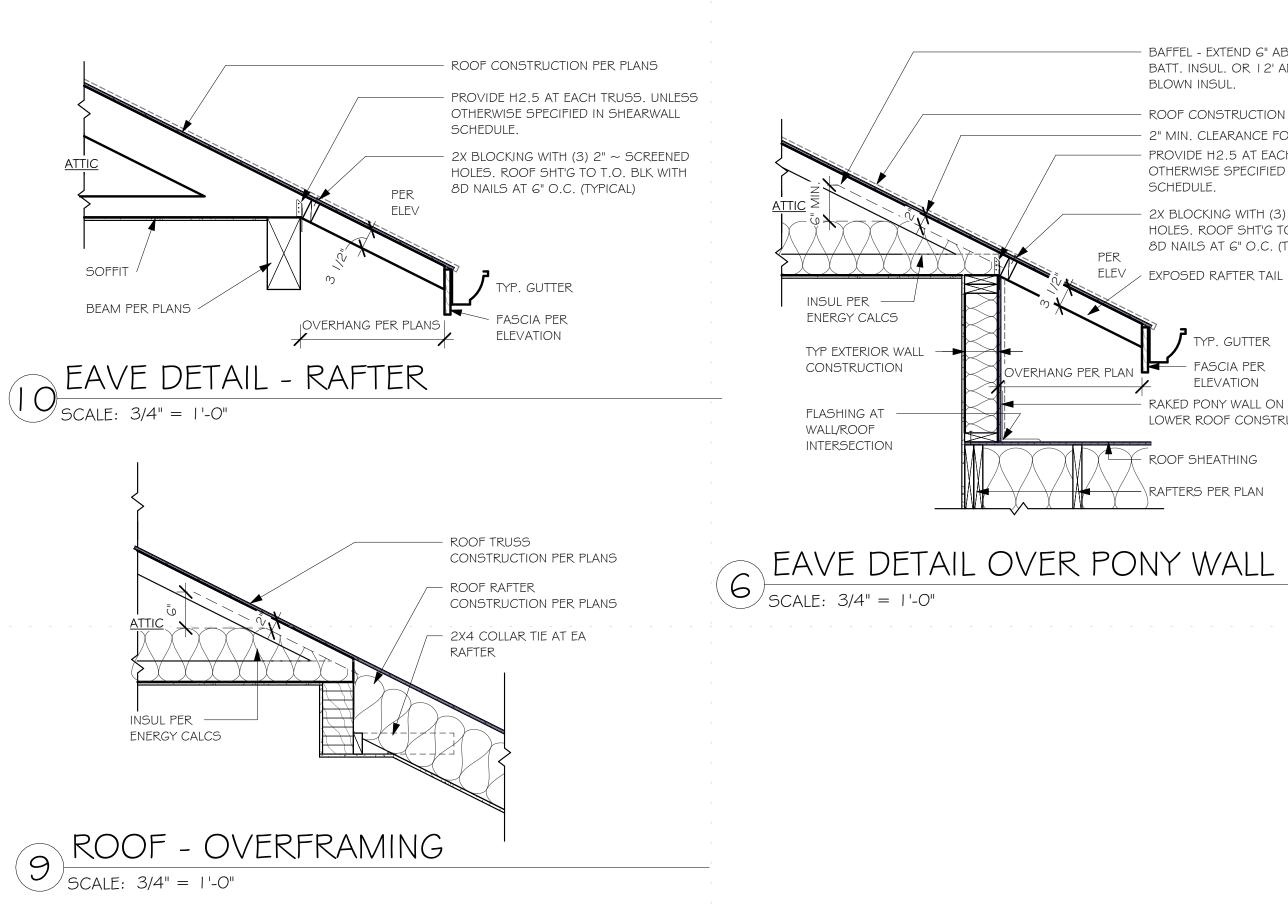
PERMIT SET

ROOF DETAILS

PROJECT NO: 20008 ISSUE DATE: TBD SHT ISSUE DATE:2021/01/08

DRAWN BY: D301

SCALE 24X36: 3/4" = 1'-0" * NOTE: | | X | 7 SETS ARE REDUCED 50%; SCALE DRAWINGS ACCORDINGLY.



BAFFEL - EXTEND 6" ABOVE BATT. INSUL. OR 12' ABOVE BLOWN INSUL. - ROOF CONSTRUCTION PER PLANS - 2" MIN. CLEARANCE FOR VENTING PROVIDE H2.5 AT EACH TRUSS. UNLESS OTHERWISE SPECIFIED IN SHEARWALL SCHEDULE. - 2X BLOCKING WITH (3) 2" ~ SCREENED HOLES. ROOF SHT'G TO T.O. BLK WITH 8D NAILS AT 6" O.C. (TYPICAL) ELEV / EXPOSED RAFTER TAIL INSUL PER ---**ENERGY CALCS** TYP. GUTTER TYP EXTERIOR WALL -OVERHANG PER PLAN FASCIA PER CONSTRUCTION ELEVATION - RAKED PONY WALL ON TOP OF FLASHING AT -LOWER ROOF CONSTRUCTION WALL/ROOF INTERSECTION ROOF SHEATHING -\RAFTERS PER PLAN

- ROOF RAFTER CONSTRUCTION PER PLANS - 2" MIN. CLEARANCE FOR VENTING - 2X BLOCKING WITH (3) 2" ~ SCREENED HOLES - PROVIDE H2.5 AT EACH TRUSS. UNLESS OTHERWISE SPECIFIED IN SHEARWALL SCHEDULE. EXPOSED RAFTER TAIL INSUL PER —— ENERGY CALCS OVERHANG PER PLAN WHERE HDRS OCCUR AND FASCIA PER ELEVATION ARE NOT FULL WIDTH, PROVIDE R-10 RIGID INSUL AT THE INSIDE FACE TYP. EXTERIOR WALL CONSTRUCTION - INSUL. PER ENERGY CALCS.

EAVE DETAIL - TRUSS

SCALE: 3/4" = 1'-0"

BAFFEL - EXTEND 6" ABOVE

BLOWN INSUL.

SCHEDULE.

ELEV EXPOSED RAFTER TAIL

OVERHANG PER PLAN | FASCIA PER

BATT. INSUL. OR 12' ABOVE

- ROOF CONSTRUCTION PER PLANS

- 2" MIN. CLEARANCE FOR VENTING

- PROVIDE H2.5 AT EACH TRUSS. UNLESS OTHERWISE SPECIFIED IN SHEARWALL

2X BLOCKING WITH (3) 2" ~ SCREENED

HOLES. ROOF SHT'G TO T.O. BLK WITH

8D NAILS AT 6" O.C. (TYPICAL)

TYP. GUTTER

ELEVATION

INSUL. PER ENERGY CALCS.

- TYP. EXTERIOR WALL CONSTRUCTION

SHEE

DETAIL

STANDARD

X X X X INSUL PER ----**ENERGY CALCS** WHERE HDRS OCCUR AND ARE NOT FULL WIDTH, PROVIDE R-10 RIGID INSUL AT THE INSIDE FACE

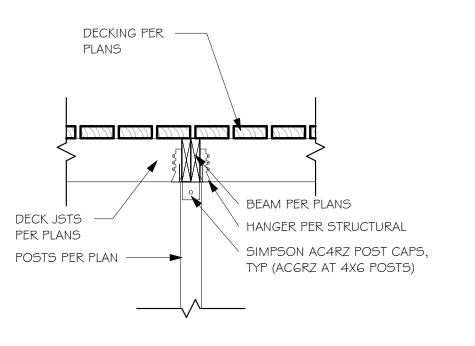
5/4X6 CEDAR DECKING OR EQ - CONNECTION PER STRUCT SOLID BLK'G PER STRUCTURAL BEAM PER STRUCTURAL FINISH/TRIM PER ELEVATIONS - POST PER PLANS. PROVIDE 4x6 POST AT BEAM SPLICES DECK JSTS BEYOND PER PLANS POST BASE PER STRUCTURAL CONCRETE PIER BLOCK MIN 6" OF CRUSHED GRAVEL TO SOLID SUBSTRATE

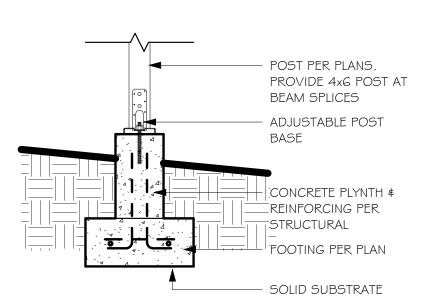
BOTTOM MOUNTED METAL RAILING PER MFR. 5/4X6 CEDAR -DECKING OR EQ SOLID BLK'G -2X BLK'G AROUND PERIMETER - RIM JOIST PER PLAN FINISH/TRIM PER ELEVATIONS DECK JSTS BEYOND PER
PLANSPER PLANS - CONNECTION POST BEYOND -PER STRUCT PER PLANS PER STRUCT

9 FRM'G CONNECTION @ DECK SCALE: 3/4" = 1'-0"

FRM'G CONNECTION @ DECK RAILING

SCALE: 3/4" = 1'-0"



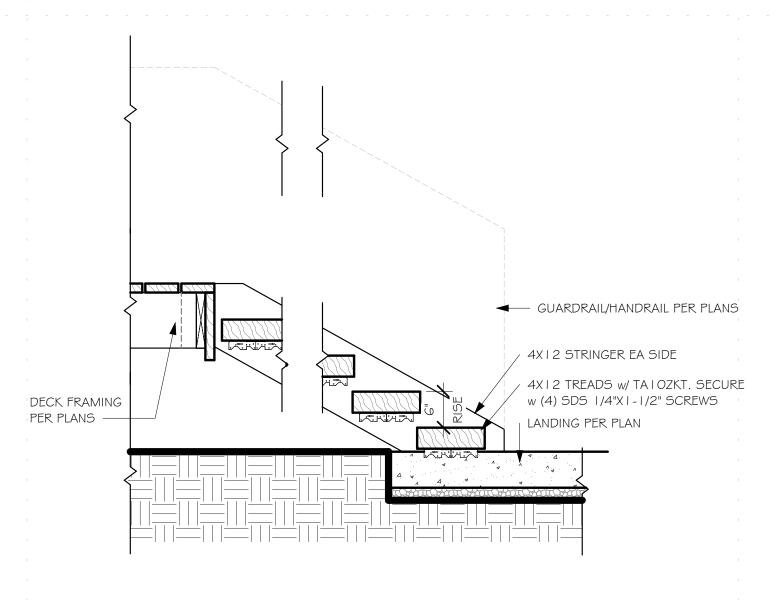


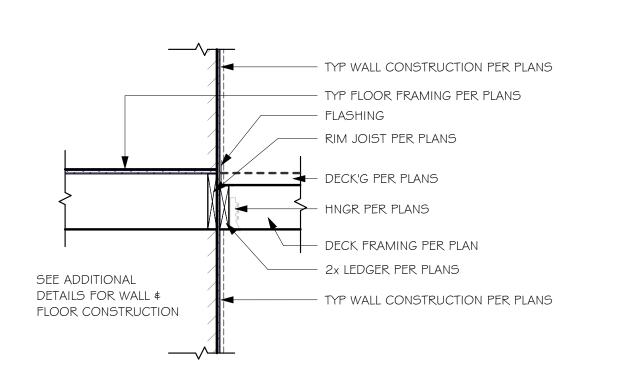
FRM'G CONNECTION @ DECK POST

SCALE: 3/4" = 1'-0"

FRM'G CONNECTION @ DECK POST

SCALE: 3/4" = 1'-0"





STAIR SECTION DETAIL

SCALE: 3/4" = 1'-0"

EXTERIOR WALL FRM'G CONNECTION

SCALE: 3/4" = 1'-0"

SHEE DETAIL STANDARD

DECK DETAILS

PROJECT NO: 20008 ISSUE DATE: TBD SHT ISSUE DATE:2021/01/08 DRAWN BY:

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5024 W Mercer Way, Mercer Isla

Residence

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PERMIT SET

SCALE 24X36: 3/4" = 1'-0" * <u>NOTE:</u> | | X | 7 SETS ARE REDUCED 50%; SCALE DRAWINGS ACCORDINGLY.

GENERAL REQUIREMENTS

BUILDING CODE & REFERENCE STANDARDS: THE "INTERNATIONAL BUILDING CODE" (IBC), 2018 EDITION, AS ADOPTED AND MODIFIED BY THE CITY OF MERCER ISLAND, GOVERNS THE DESIGN AND CONSTRUCTION OF THIS PROJECT. REFERENCE TO A SPECIFIC SECTION IN THE CODE DOES NOT RELIEVE THE OFFICIAL SHALL BE PERMITTED TO WAIVE THE REQUIREMENT FOR A GEOTECHNICAL INVESTIGATION WHERE SATISFACTORY DATA FROM ADJACENT AREA IS CONTRACTOR FROM COMPLIANCE WITH THE ENTIRE MATERIALS REFERENCE STANDARDS NOTED BELOW. THE LATEST EDITION OF THE MATERIALS REFERENCE STANDARDS SHALL BE USED.

SCOPE OF STRUCTURAL WORK: STRUCTURAL DESIGN OF NEW SINGLE FAMILY RESIDENCE.

<u>DEFINITIONS</u>: THE FOLLOWING DEFINITIONS APPLY TO THESE GENERAL NOTES:

- "ENGINEER OF RECORD" (EOR) THE ENGINEER WHO IS LEGALLY RESPONSIBLE FOR STAMPING & SIGNING THE STRUCTURAL DOCUMENTS FOR THE PROJECT. THE EOR IS RESPONSIBLE FOR THE DESIGN OF THE PRIMARY STRUCTURAL SYSTEM.
- "SPECIALTY STRUCTURAL ENGINEER" (SSE) A LICENSED PROFESSIONAL ENGINEER, NOT THE EOR, WHO PERFORMS SPECIALTY STRUCTURAL ENGINEERING SERVICES NECESSARY TO COMPLETE THE STRUCTURE, WHO HAS EXPERIENCE AND TRAINING IN THE SPECIFIC SPECIALTY. THE GENERAL CONTRACTOR, SUBCONTRACTOR, OR SUPPLIER WHO IS RESPONSIBLE FOR THE DESIGN, FABRICATION AND INSTALLATION OF SPECIALTY-ENGINEERED ELEMENTS SHALL RETAIN THE SSE. SUBMITTALS SHALL BE STAMPED AND SIGNED BY THE SSE. DOCUMENTS STAMPED AND SIGNED BY THE SSE SHALL BE COMPLETED BY OR UNDER THE DIRECT SUPERVISION OF THE SSE WITH A PE OR SE LICENSE ISSUED BY THE STATE OF WASHINGTON.

NOTE PRIORITIES: NOTES ON THE INDIVIDUAL DRAWINGS SHALL GOVERN OVER THESE GENERAL NOTES.

STRUCTURAL DETAILS: THE STRUCTURAL DRAWINGS ARE INTENDED TO SHOW THE GENERAL CHARACTER AND EXTENT OF THE PROJECT AND ARE NOT AS DIRECTED BY THE GEOTECHNICAL REPORT. BACKFILL BEHIND WALLS SHALL NOT BE PLACED BEFORE THE WALL IS PROPERLY SUPPORTED BY THE INTENDED TO SHOW ALL DETAILS OF THE WORK.

ARCHITECTURAL DRAWINGS: REFER TO THE ARCHITECTURAL DRAWINGS FOR INFORMATION INCLUDING, BUT NOT LIMITED TO: DIMENSIONS, ELEVATIONS, SLOPES, DOOR AND WINDOW OPENINGS, NON-BEARING WALLS, STAIRS, CURBS, DRAINS, DEPRESSIONS, RAILINGS, WATERPROOFING, FINISHES AND OTHER SUPPORTING CONCRETE SLAB OR PAVING. NONSTRUCTURAL ITEMS.

STRUCTURAL RESPONSIBILITIES: THE EOR IS RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE PRIMARY STRUCTURE IN ITS COMPLETED STATE.

CONTRACTOR RESPONSIBILITIES: THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND ALL JOB RELATED SAFETY STANDARDS SUCH AS OSHA AND WSHA. THE CONTRACTOR IS RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION AND SHALL PROVIDE TEMPORARY SHORING, BRACING AND OTHER ELEMENTS REQUIRED TO MAINTAIN STABILITY UNTIL THE STRUCTURE IS COMPLETED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE WORK REQUIRED IN THE CONSTRUCTION DOCUMENTS AND THE REQUIREMENTS FOR EXECUTING IT PROPERLY.

DISCREPANCIES: IN CASE OF DISCREPANCIES BETWEEN THESE GENERAL NOTES, THE CONTRACT DRAWINGS AND SPECIFICATIONS, AND/OR REFERENCE STANDARDS, THE EOR SHALL DETERMINE WHICH SHALL GOVERN. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE EOR BEFORE PROCEEDING WITH THE WORK. ACCORDINGLY, ANY CONFLICT IN OR BETWEEN THE CONTRACT DOCUMENTS SHALL NOT BE A BASIS FOR ADJUSTMENT IN

SITE VERIFICATION: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE PRIOR TO FABRICATION AND/OR CONSTRUCTION. CONFLICTS BETWEEN THE DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE EOR BEFORE PROCEEDING WITH THE WORK. ALL UNDERGROUND UTILITIES SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO EXCAVATION OR DRILLING.

ADJACENT UTILITIES: THE CONTRACTOR SHALL DETERMINE THE LOCATIONS OF ALL ADJACENT UNDERGROUND UTILITIES PRIOR TO EXCAVATION OR PILE PLACEMENT. ANY UTILITY INFORMATION SHOWN ON THE DRAWINGS AND DETAILS IS APPROXIMATE AND NOT NECESSARILY COMPLETE.

DESIGN CRITERIA

CONSTRUCTION LOADS: LOADS ON THE STRUCTURE DURING CONSTRUCTION SHALL NOT EXCEED THE DESIGN LOADS OR THE CAPACITY OF THE PARTIALLY COMPLETED CONSTRUCTION.

SNOW LOAD: THE ROOF SNOW LOAD IS DETERMINE BY USING CHAPTER 7 OF ASCE 7-10 IN ACCORDANCE WITH IBC SECTION 1608 AND WITH THE FOLLOWING FACTORS:

L/240

L/360

20 PSF

25 PSF

MINIMUM ROOF DESIGN LOAD 25 PSF WITHOUT DRIFT GROUND SNOW LOAD, PG = 20 PSF IMPORTANCE FACTOR, IS = 1.0 THERMAL FACTOR, CT = 1.0 DEFLECTIONS: ROOF / FLOOR TOTAL LOAD DEFLECTION LIMIT: ROOF / FLOOR LICE LOAD DEFLECTION LIMIT:

LIVE LOADS:

ROOF (LIVE) ROOF (SNOW)

WIND DESIGN: WIND LOAD IS DETERMINED USING CHAPTER 28 OF ASCE 7-16 IN ACCORDANCE WITH IBC SECTION 1609 WITH THE FOLLOWING FACTORS:

BASIC WIND SPEED (3-SECOND GUST) V = 110 MPH WIND IMPORTANCE FACTOR IW = 1.0 RISK CATEGORY = II EXPOSURE CATEGORY = B GCPI = ±0.18

FOR COMPONENTS & CLADDING AS DEFERRED SUBMITTAL, THE DESIGN WIND PRESSURES FOR DETERMINING FORCES ON COMPONENTS AND CLADDING SHALL BE 40 PSF UNLESS OTHERWISE DETERMINED USING CHAPTER 30 OF ASCE 07-10 IN ACCORDANCE WITH IBC SECTION 1609 BY THE [WASHINGTON] STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN OF SUCH ELEMENTS.

SEISMIC DESIGN: EARTHQUAKE DESIGN IS DETERMINED USING CHAPTER 12 ASCE 7-10 IN ACCORDANCE WITH IBC CHAPTER 16 WITH THE FOLLOWING

IMPORTANCE FACTOR IE = 1.0 RISK CATEGORY= II SS = 1.437 G SDS = 0.958 G S1 = 0.499 G SD1 = N/A

SEISMIC DESIGN CATEGORY = D SITE CLASS = D

WOOD STRUCTURE (SUPER-STRUCTURE) BASIC SEISMIC FORCE RESISTING SYSTEM: A-15 (BEARING WALL SYSTEMS) LIGHT-FRAMED WALLS WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE

ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE, PER ASCE 7-10, SECTION 12.8 CS=0.147

TESTS & INSPECTIONS

W = 2.5

FACTORS:

INSPECTIONS: ALL CONSTRUCTION IS SUBJECT TO INSPECTION BY THE BUILDING OFFICIAL IN ACCORDANCE WITH IBC SEC 110. THE CONTRACTOR SHALL COORDINATE ALL REQUIRED INSPECTIONS WITH THE BUILDING OFFICIAL. SUBMIT COPIES OF ALL INSPECTION REPORTS TO THE ARCHITECT/EOR FOR REVIEW. THE BUILDING OFFICIAL MAY ACCEPT INSPECTION OF AND REPORTS BY APPROVED INSPECTION AGENCIES IN LIEU OF BUILDING OFFICIAL'S INSPECTIONS. THE CONTRACTOR SHALL OBTAIN APPROVAL OF BUILDING OFFICIAL TO USE THE THIRD-PARTY INSPECTION AGENCY AND CONTRACTOR SHALL ALERT THE ARCHITECT/EOR AS SUCH.

SOILS AND FOUNDATIONS

REFERENCE STANDARDS: CONFORM TO IBC CHAPTER 18 "SOILS AND FOUNDATIONS."

GEOTECHNICAL INSPECTION: THE GEOTECHNICAL ENGINEER OR THIRD-PARTY INSPECTOR SHALL INSPECT ALL PREPARED SOIL BEARING SURFACES PRIOR WOOD FRAMING TO PLACEMENT OF CONCRETE AND REINFORCING STEEL AND PROVIDE A LETTER TO THE OWNER STATING THAT SOILS ARE ADEQUATE TO SUPPORT THE "ALLOWABLE FOUNDATION PRESSURE" SHOWN BELOW. SOIL COMPACTION SHALL BE SUPERVISED BY AN APPROVED TESTING AGENCY OR GEOTECHNICAL E ENGINEER. SITE SOIL CONDITIONS, FILL PLACEMENT, AND LOAD-BEARING REQUIREMENTS SHALL BE AS REQUIRED BY SECTION 1705.6 AND TABLE 1705.6. ASSUMED VALUES SHALL BE FIELD VERIFIED BY THE BUILDING OFFICIAL OR THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE. THE BUILDING AVAILABLE THAT DEMONSTRATES AN INVESTIGATION IS NOT NECESSARY FOR ANY OF THE CONDITIONS IN SECTIONS 1803.5.1 - 1803.5.6 AND SECTIONS 1803.5.10 - 1803.5.11.

DESIGN SOIL VALUES: (ASSUMED) ALLOWABLE SOIL BEARING PRESSURE

2,500 PSF DL + LL

SLABS-ON-GRADE & FOUNDATIONS: ALL SLABS-ON-GRADE AND FOUNDATIONS SHALL BEAR ON STRUCTURAL COMPACTED FILL OR COMPETENT NATIVE SOIL PER THE GEOTECHNICAL REPORT OR AS NOTED IN THESE DOCUMENTS. EXTERIOR PERIMETER FOOTINGS SHALL BEAR NOT LESS THAN 18 INCHES BELOW FINISH GRADE, OR AS REQUIRED BY THE GEOTECHNICAL ENGINEER AND THE BUILDING OFFICIAL. INTERIOR FOOTINGS SHALL BEAR NOT LESS THAN 12 INCHES BELOW FINISH FLOOR.

FOUNDATION STEM WALLS: UNLESS OTHERWISE NOTED ON THE DRAWINGS, THE MAXIMUM UNBALANCED SOIL CONDITION FOR ALL FOUNDATION STEM WALLS (DIFFERENCE IN ELEVATION BETWEEN INTERIOR AND EXTERIOR SOIL GRADES) SHALL BE 2'-6". MAINTAIN A MINIMUM 8" SEPARATION BETWEEN FINISH GRADE AND UNTREATED WOOD FRAMING.

BACKFILLING: BACKFILL BEHIND RETAINING AND FOUNDATION WALLS SHALL BE OF FREE-DRAINING MATERIAL PLACED IN MAXIMUM LOOSE LIFTS OF 12" OR FLOOR SLAB OR TEMPORARY BRACING. BACKFILL SHALL BE COMPACTED USING HAND-OPERATED EQUIPMENT ONLY. THE CONTRACTOR SHALL REFRAIN FROM OPERATING HEAVY EQUIPMENT BEHIND RETAINING AND FOUNDATION WALLS WITHIN A DISTANCE EQUAL TO OR GREATER THAN THE HEIGHT OF THE WALL, UNLESS OTHERWISE APPROVED BY THE EOR. ALL TOPSOIL ORGANICS AND LOOSE SURFACE SOIL SHALL BE REMOVED FROM BENEATH FILL

CAST-IN-PLACE CONCRETE

REFERENCE STANDARDS: CONFORMS TO THE LATEST EDITIONS OF THE FOLLOWING:

- (1) ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY".
- (2) IBC CHAPTER 19.

FIELD REFERENCE: THE CONTRACTOR SHALL KEEP A COPY OF ACI FIELD REFERENCE MANUAL, SP-15, "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301) WITH SELECTED ACI AND ASTM REFERENCES."

CONCRETE MIXTURES: CONFORM TO ACI 318 CHAPTER 19 "CONCRETE: DESIGN AND DURABILITY REQUIREMENTS."

MATERIALS: CONFORM TO ACI 318 CHAPTERS 19 & 20.

SUBMITTALS: PROVIDE ALL SUBMITTALS REQUIRED BY ACI 301 SEC 4.1.2. SUBMIT MIX DESIGNS FOR EACH MIX IN THE TABLE BELOW.

		TABLE OF MIX	DESIGN REQUIREMENTS			
MEMBER	STRENGTH	TEST AGE	MAXIMUM	EXPOSURE	MAX	
	MINIMUM					
TYPE/LOCATION	(PSI)	(DAYS)	AGGREGATE	CLASSIFICATION	W/C RATIO	AIR CONTENT
FOUNDATION ELEMENTS	3,500	28	1"	F1, C0	0.45	4.5%

- W/C RATIO: WATER-CEMENTITIOUS MATERIAL RATIOS SHALL BE BASED ON THE TOTAL WEIGHT OF CEMENTITIOUS MATERIALS. RATIOS NOT SHOWN IN THE TABLE ABOVE ARE CONTROLLED BY STRENGTH REQUIREMENTS.
- CEMENTITIOUS CONTENT:
- THE USE OF FLY ASH, OTHER POZZOLANS, SILICA FUME, OR SLAG SHALL CONFORM TO ACI 301 SEC 4.2.2 9B. MAXIMUM OF FLY ASH SHALL BE 20% OF TOTAL CEMENTITIOUS CONTENT UNLESS REVIEWED AND APPROVED OTHERWISE BY EOR.
- AIR CONTENT: CONFORM TO ACI 301 SEC 4.2.2.4. HORIZONTAL EXTERIOR SURFACES IN CONTACT WITH THE SOIL REQUIRE ENTRAINED AIR. USE EXPOSURE CATEGORY F0, S0, W0, AND C0 UNLESS NOTED OTHERWISE. TOLERANCE IS +/- 1.5%. AIR CONTENT SHALL BE MEASURED AT POINT OF PLACEMENT.
- EXPOSURE CLASSIFICATION: THE MIX DESIGN PROVIDED SHALL MEET THE REQUIREMENTS OF ACI 318 CHAPTER 19, BASED ON THE EXPOSURE CLASSIFICATION INDICATED IN THE TABLE ABOVE.
- SLUMP: UNLESS OTHERWISE SPECIFIED OR PERMITTED, CONCRETE SHALL HAVE AT THE POINT OF DELIVERY, A SLUMP OF 4" +/- 1". FOR ADDITIONAL CRITERIA, REFERENCE ACI 301 SEC 4.2.2.2.

FORMWORK: CONFORM TO ACI 301 SEC 2 "FORMWORK AND FORM ACCESSORIES." REMOVAL OF FORMS SHALL CONFORM TO SEC 2.3.2 EXCEPT STRENGTH INDICATED IN SEC 2.3.2.5 SHALL BE 0.75 F'C.

MEASURING, MIXING, AND DELIVERY: CONFORM TO ACI 301 SEC 4.3.

<u>HANDLING</u>, <u>PLACING</u>, <u>CONSTRUCTING</u>, <u>AND CURING</u>: CONFORM TO ACI 301 SEC 5.

EMBEDDED ITEMS: POSITION AND SECURE IN PLACE EXPANSION JOINT MATERIAL, ANCHORS AND OTHER STRUCTURAL AND NON-STRUCTURAL EMBEDDED ITEMS BEFORE PLACING CONCRETE. CONTRACTOR SHALL REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND ARCHITECTURAL DRAWINGS AND COORDINATE ALL OTHER EMBEDDED ITEMS.

CONCRETE REINFORCEMENT

REFERENCE STANDARDS: CONFORM TO:

- (2) ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE." SEC 3" REINFORCEMENT, AND REINFORCEMENT SUPPORTS."
 - (3) IBC CHAPTER 19, CONCRETE.
 - (4) ACI 318 AND ACI 318R. (5) ACI SP-66 "ACI DETAILING MANUAL" INCLUDING ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT."
 - (6) CRSI MSP-2 "MANUAL OF STANDARD PRACTICE."
 - (7) ANSI/AWS D1.4 "STRUCTURAL WELDING CODE REINFORCING STEEL."

MATERIALS: REINFORCING BARS

DEFORMED WELDED WIRE FABRIC BAR SUPPORTS

CRSI MSP-2, CHAPTER 3 "BAR SUPPORTS." TIE WIRE 16.5 GAGE OR HEAVIER, BLACK ANNEALED.

FABRICATION: CONFORM TO ACI 301, SEC 3.2.2 "FABRICATION," AND ACI SP-66 "ACI DETAILING MANUAL."

WELDING: BARS SHALL NOT BE WELDED UNLESS AUTHORIZED. WHEN AUTHORIZED, CONFORM TO ACI 301, SEC 3.2.2.2. "WELDING" AND PROVIDE ASTM A706, GRADE 60 REINFORCEMENT.

ASTM A615, GRADE 60, DEFORMED BARS.

PLACING: CONFORM TO ACI 301, SEC 3.3.2 "PLACEMENT." PLACING TOLERANCES SHALL CONFORM TO SEC 3.3.2.1 "TOLERANCES."

CONCRETE COVER: CONFORM TO THE FOLLOWING COVER REQUIREMENTS FROM ACI 301, TABLE 3.3.2.3.

- CONCRETE CAST AGAINST EARTH 3"
- CONCRETE EXPOSED TO EARTH OR WEATHER (#5 & SMALLER) 1-1/2"
- CONCRETE EXPOSED TO EARTH OR WEATHER (#6 & LARGER) 2" TIES IN COLUMNS AND BEAMS 1-1/2"
- BARS IN SLABS AND WALLS 3/4"

<u>LAP & DEVELOPMENT SCHEDULE</u> (CONCRETE STRENGTH F'C = UP TO 4,500)

AR DESIGNATION	LAP LENGTH, LS	DEVELOPMENT LENGTH, LD
l.	32"	24"
j	39"	30"
WF	8" ON ALL SIDES AND EDGES	

FIELD BENDING: CONFORM TO ACI 301 SEC 3.3.2.8. "FIELD BENDING OR STRAIGHTENING." BAR SIZES #3 THROUGH #5 MAY BE FIELD BENT COLD THE FIRST TIME. OTHER BARS REQUIRE PREHEATING. DO NOT TWIST BARS.

REFERENCE STANDARDS: CONFORM TO:

- (1) IBC CHAPTER 23 "WOOD." (2) NDS AND NDS SUPPLEMENT - "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION."
- (3) ANSI/TPI 1 "NATIONAL DESIGN STANDARD FOR METAL-PLATE-CONNECTED WOOD TRUSS CONSTRUCTION."
- (4) BCSI 2013 "BUILDING COMPONENT SAFETY INFORMATION."

ALTERNATES: ALTERNATES FOR SPECIFIED ITEM MAY BE SUBMITTED TO THE EOR FOR REVIEW. CONTRACTOR SHALL SUBMIT A CURRENT ICC-ESR/IAPMO-ER REPORT IDENTIFYING THAT AN ALTERNATIVE COMPONENT HAS THE SAME OR GREATER LOAD CAPACITY THAN THE SPECIFIED ITEM.

<u>IDENTIFICATION</u>: ALL SAWN LUMBER AND PRE-MANUFACTURED WOOD PRODUCTS SHALL BE IDENTIFIED BY THE GRADE MARK OR A CERTIFICATE OF

SAWN LUMBER: CONFORM TO GRADING RULES OF WWPA, WCLIB, OR NLGA. FINGER JOINTED STUDS ACCEPTABLE AT INTERIOR NON-STRUCTURAL WALLS

MEMBER	RUSE	SIZE	SPECIES	GRADE
STUDS 8	& PLATES	2X4, 2X6	HF	NO. 2
POSTS		4X4	HF	NO. 2
POSTS		6X	DF	NO. 1
BEAMS 8	& HEADERS	4X8 4X12	HF	NO. 2
BEAMS 8	& HEADERS	6X	DF	NO. 1

GLUED LAMINATED TIMBER: CONFORM TO AITC 117 "STANDARD SPECIFICATIONS FOR STRUCTURAL GLUED LAMINATED TIMBER OF SOFTWOOD SPECIES, MANUFACTURING AND DESIGN" AND ANSI/AITC A190.1 "STRUCTURAL GLUED LAMINATED TIMBER." GLUED LAMINATED MEMBER BEAMS SHALL NOT BE CAMBERED, UNLESS SHOWN OTHERWISE ON THE PLANS OR SPECIFICATIONS.

MEMBER USE	SIZES	SPECIES	STRESS CLASS	USES
BEAMS	ALL	DF/DF	24F-V4	ALL SPANS

ENGINEERED WOOD PRODUCTS (EWP): THE FOLLOWING MATERIALS ARE BASED ON LUMBER MANUFACTURED BY [TRUSJOIST BY WEYERHAEUSER, REDBUILT]. TRUS-JOIST BY WEYERHAEUSER WAS USED AS THE BASIS OF DESIGN FOR THIS PROJECT. ALTERNATE PRODUCTS BY OTHER MANUFACTURERS MAY BE SUBSTITUTED PROVIDED THEY HAVE CURRENT ICC-ESR/IAPMO-ER APPROVAL FOR EQUIVALENT OR GREATER LOAD AND STIFFNESS PROPERTIES AND ARE REVIEWED AND APPROVED BY THE EOR. A HUD MATERIAL RELEASE FORM IS REQUIRED FOR ALL MANUFACTURED WOOD PRODUCTS LISTED BELOW.

- LAMINATED VENEER LUMBER (LVL): CONFORM TO ICC ES REPORT NO. [ESR-1387/ESR-2993], CCMC REPORT NO. [12627-R/13485-R], OR NES REPORT NO. NER-481.
- PARALLEL STRAND LUMBER (PSL): CONFORM TO ICC ES REPORT NO. ESR-1387, CCMC REPORT NO. 11161-R, OR NES REPORT NO. NER-481. USE 2.2EUNLESS NOTED OTHERWISE.
- LAMINATED STRAND LUMBER (LSL): CONFORM TO ICC ES REPORT NO. ESR-1387, CCMC REPORT NO. 12627-R, OR NES REPORT NO.
- OPEN WEB WOOD TRUSS (OWWT): CONFORM TO ICC ES REPORT NO. [PFC-4354/ESR-1774] OR NES REPORT NO. NER-148. THE MANUFACTURER SHALL DESIGN THE JOISTS FOR THE SPANS AND CONDITIONS SHOWN ON THE PLANS. JOISTS SHALL HAVE WOOD CHORDS AND EITHER WOOD OR METAL WEBS.

WOOD STRUCTURAL SHEATHING (PLYWOOD): WOOD APA-RATED STRUCTURAL SHEATHING INCLUDES: ALL VENEER PLYWOOD, ORIENTED STRAND BOARD, WAFERBOARD, PARTICLEBOARD, T1-11 SIDING, AND COMPOSITES OF VENEER AND WOOD BASED MATERIAL. CONFORM TO PRODUCT STANDARDS PS-1-95 AND PS-2-92 OF THE U.S. DEPT. OF COMMERCE AND THE AMERICAN PLYWOOD ASSOCIATION (APA)

			mom, a record		
LOCATION	THICKNESS	SPAN RATING	PLYWOOD GRADE	EXPOSURE	
ROOF	15/32"	24/16	C-D	1	
FLOOR	23/32" T&G	24 OC	STURD-I-FLOOR	1	
WALLS	15/32"	32/16	C-D	1	

JOIST HANGERS AND CONNECTORS: SIMPSON STRONG-TIE COMPANY INC. AS SPECIFIED IN THEIR LATEST CATALOGS WAS USED AS THE BASIS OF DESIGN FOR THIS PROJECT. ALTERNATE CONNECTORS BY OTHER MANUFACTURERS MAY BE SUBSTITUTED PROVIDED THEY HAVE CURRENT ICC-ESR/IAPMO-ER APPROVAL FOR EQUIVALENT OR GREATER LOAD CAPACITIES AND ARE REVIEWED AND APPROVED BY THE EOR PRIOR TO ORDERING. CONNECTORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, PLACE 1/2 OF THE NAILS OR BOLTS IN EACH MEMBER. NAIL STRAPS TO WOOD FRAMING AS LATE AS POSSIBLE IN THE FRAMING PROCESS TO ALLOW THE WOOD TO SHRINK AND THE BUILDING TO

NAILS AND STAPLES: CONFORM TO IBC SEC 2303.6 "NAILS AND STAPLES." UNLESS NOTED ON PLANS, NAIL PER IBC TABLE 2304.10.1. UNLESS NOTED OTHERWISE ALL NAILS SHALL BE COMMON. NAIL SIZES SPECIFIED ON THE DRAWINGS ARE BASED ON THE FOLLOWING SPECIFICATIONS:

COMMON NAILS

SIZE	LENGTH	DIAMETER
8D	2-1/2"	0.131"
10D	3"	0.148"
16D	3-1/2"	0.162"
16D SINKER	3-1/4'	0.148"

LAG BOLTS/BOLTS: CONFORM TO ASTM A307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD.

WOOD HOLDOWNS: HOLDOWNS SPECIFIED ARE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY INC. ADDITIONAL FRAMING MEMBERS SHALL BE PROVIDED PER THE MANUFACTURER'S REQUIREMENTS. ACCEPTABLE EQUIVALENT PRODUCT SUBSTITUTIONS ARE AVAILABLE FROM OTHER MANUFACTURERS WITH EOR APPROVAL. DO NOT COUNTERSINK HOLDOWN BOLTS.

NAILING REQUIREMENTS: PROVIDE MINIMUM NAILING IN ACCORDANCE WITH IBC TABLE 2304.10.1 "FASTENING SCHEDULE" EXCEPT AS NOTED ON THE DRAWINGS. NAILING FOR ROOF/FLOOR DIAPHRAGMS/SHEAR WALLS SHALL BE PER DRAWINGS. NAILS SHALL BE DRIVEN FLUSH AND SHALL NOT FRACTURE THE SURFACE OF SHEATHING.

STANDARD LIGHT-FRAME CONSTRUCTION: UNLESS NOTED ON THE DRAWINGS, CONSTRUCTION SHALL CONFORM TO IBC SEC 2308 "CONVENTIONAL LIGHT-FRAME CONSTRUCTION" AND IBC SEC 2304 "GENERAL CONSTRUCTION REQUIREMENTS."

- (1) WALL FRAMING (UNLESS NOTED OTHERWISE ON PLANS AND DETAILS) ALL INTERIOR WALLS SHALL BE 2X4 @ 16"OC AND ALL EXTERIOR WALLS SHALL BE 2X6 @ 16"OC. PROVIDE (2) BUNDLED STUDS MIN AT WALL ENDS AND EACH SIDE OF ALL OPENINGS. ALL SOLID SAWN LUMBER BEAMS AND HEADERS SHALL BE SUPPORTED BY A MINIMUM OF (1) TRIM AND (1) KING STUD AND ALL GLULAM OR ENGINEERED WOOD BEAMS AND HEADERS BY (2) TRIM AND (2) KING STUDS. PROVIDE MINIMUM 4X10] HEADERS AT ALL INTERIOR AND EXTERIOR WALL OPENINGS. STITCH-NAIL BUNDLED STUDS WITH (2) 10D @ 12"OC. PROVIDE SOLID BLOCKING THRU FLOORS TO SUPPORTS BELOW FOR BEARING WALLS AND POSTS. ATTACH BOTTOM PLATES OF STUD WALLS TO WOOD FRAMING BELOW WITH 16D @ 12"OC OR TO CONCRETE WITH 5/8"-DIA. ANCHOR BOLTS X 7" EMBEDMENT AT 48"OC. REFER TO SHEAR WALL SCHEDULE FOR SPECIFIC SHEATHING, STUD, AND NAILING REQUIREMENTS AT SHEAR WALLS. PROVIDE GYPSUM SHEATHING ON INTERIOR SURFACES AND PLYWOOD SHEATHING ON EXTERIOR
- (2) ROOF/FLOOR FRAMING: (UNLESS NOTED OTHERWISE ON PLANS AND DETAILS) PROVIDE DOUBLE JOISTS/RAFTERS UNDER ALL PARALLEL BEARING PARTITIONS AND SOLID BLOCKING AT ALL BEARING POINTS. PROVIDE DOUBLE JOISTS AROUND ALL ROOF/FLOOR OPENINGS. MULTI-JOISTS/RAFTERS SHALL BE STITCH-NAILED TOGETHER WITH (2)10D @ 12"OC. PROVIDE ROOF SHEATHING EDGE CLIPS CENTERED BETWEEN FRAMING AT UNBLOCKED PLYWOOD EDGES. ALL FLOOR SHEATHING SHALL HAVE TONGUE AND GROOVE JOINTS OR BE SUPPORTED BY SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF ROOF/FLOOR SHEATHING. ROOF/FLOOR SHEATHING SHALL BE LAID FACE GRAIN PERPENDICULAR TO FRAMING MEMBERS.

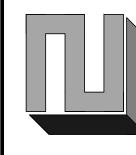
MOISTURE CONTENT: WOOD MATERIAL USED FOR THIS PROJECT SHALL HAVE MAXIMUM MOISTURE CONTENT OF 19% EXCEPT FOR THE PRESSURE-TREATED WOOD SILL PLATE.

PRESERVATIVE TREATMENT: WOOD MATERIALS ARE REQUIRED TO BE "TREATED WOOD" UNDER CERTAIN CONDITIONS IN ACCORDANCE WITH IBC SEC 2304.12 "PROTECTION AGAINST DECAY AND TERMITES." CONFORM TO THE APPROPRIATE STANDARDS OF THE AMERICAN WOOD-PRESERVERS ASSOCIATION (AWPA) FOR SAWN LUMBER, GLUED LAMINATED TIMBER, ROUND POLES, WOOD PILES, AND MARINE PILES. FOLLOW AMERICAN LUMBER STANDARDS COMMITTEE (ALSC) QUALITY ASSURANCE PROCEDURES. PRODUCTS SHALL BEAR THE APPROPRIATE MARK.

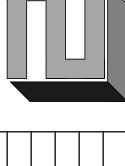
METAL CONNECTORS/PT WOOD: ALL METAL HARDWARE AND FASTENERS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE STAINLESS STEEL TYPE 316L. AT THE OWNER'S RISK AND DISCRETION, HOT-DIPPED GALVANIZED METAL HARDWARE AND FASTENERS MAY BE INVESTIGATED FOR USE IN LIEU OF STAINLESS STEEL PROVIDED THAT THE FINISH HAS A MINIMUM ZINC CONTENT OF AT LEAST 1.85 OZ./SF AND ITS USE IS COORDINATED BY THE CONTRACTOR AND WOOD SUPPLIER FOR THE EXPECTED ENVIRONMENT AND MOISTURE EXPOSURE FOR APPROPRIATE USE BASED ON THE METHOD OF PRESERVATIVE TREATMENT OF THE WOOD.

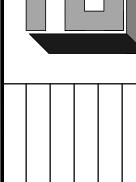
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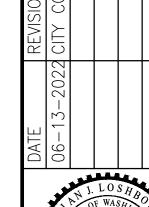




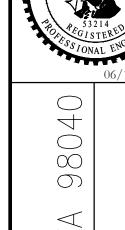












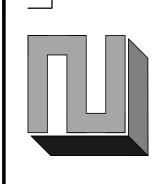
 $\bigcirc \geqslant$

 \sim \bigcirc CHK BY: DRW BY

SCALE: AS SHOWN BAR = 1"

ULL SIZE DATE: 06/13/2022

JOB NO: 20-084 $\sim\sim\sim$



REVISION	-13-2022 CITY COMMENTS		
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CHK BY: DRW BY

SCALE: AS SHOWN

BAR = 1" FULL SIZE

DATE: 06/13/2022 JOB NO: 20-084

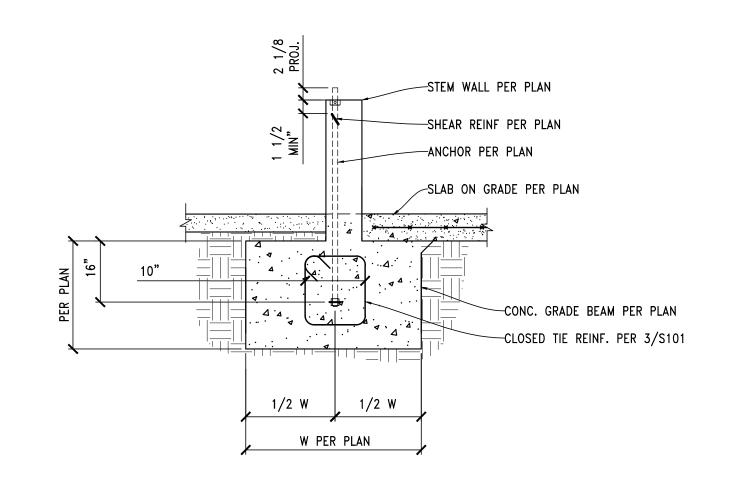
SHEET: 2 OF 10

ATTACH WSW- TOW TO FRAMING AND WSW PANEL BOTH -SIDES USING 10dx2½" NAILS MIN ALIGN WSW-TOW NOTCHES WITH BOTTOM DOUBLE TOP PLATE √%" MAXIMUM WOOD SHIM DOUBLE TOP PLATE GARAGE HEADER FURRING BLOCKS NAILING PER WSW MANUF PER PLAN DFL, SP OR SCL WOOD FURRING BLOCK (REQUIRED STRONG-WALL FOR 51/8"-51/2" WOOD SHEARWALL FRAMING MEMBERS) 1.2/S101

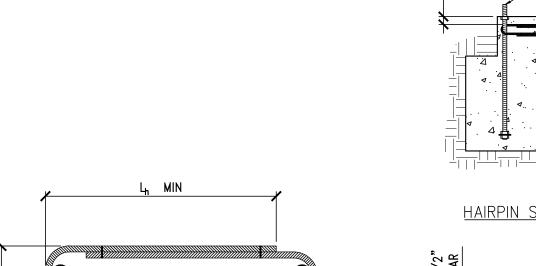
MATCH PLATE FROM HEADER TO T/ PLATE

SCALE: 3/4"=1'-0" TYPICAL STRONG WALL TOP CONNECTION — TOP PLATE

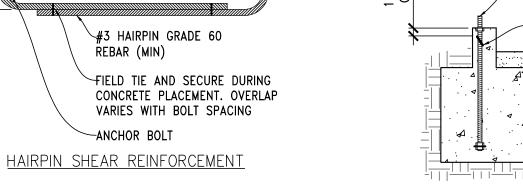
REF. 3/S101 & PLAN FOR GRADE BEAM REINFORCING.



SCALE: 3/4"=1'-0"TYPICAL STRONGWALL ANCHORAGE - SECTION



REF. 3/S101 & PLAN FOR GRADE BEAM REINFORCING.



SCALE: 3/4"=1'-0"

HAIRPIN SHEAR REINFORCEMENT -ANCHOR BOLT #3 HAIRPIN SEE TABLE FOR REQ'D QUANTITY

SECTION A-A

STRONG WALL ANCHORAGE SHEAR REINFORCEMENT

-ANCHOR BOLT

#3 HAIRPIN SEE TABLE FOR REQ'D QUANTITY

ZONES

EDGE DRILL ZONE

MIDDLE 1/3 OF PANEL THICKNESS

NO EDGE HOLES
ALLOWED IN LOWER
26" OF PANEL

ALLOWABLE SMALL HOLES FACE AND EDGE DRILL

NO HOLES ALLOWED IN TOP

— FACE DRILL ZONE

EDGE DISTANCE

OUTSIDE EDGE,

TYPICAL.

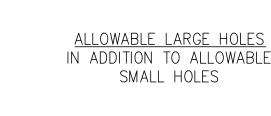
MAINTAIN 1½" MIN.

FROM CHASE AND

NO FACE HOLES

40" OF PANEL

ALLOWED IN LOWER



NO HOLES ALLOWED IN TOP

FACE DRILL ZONE

FACE AS SHOWN

12" ABOVE EXISTING

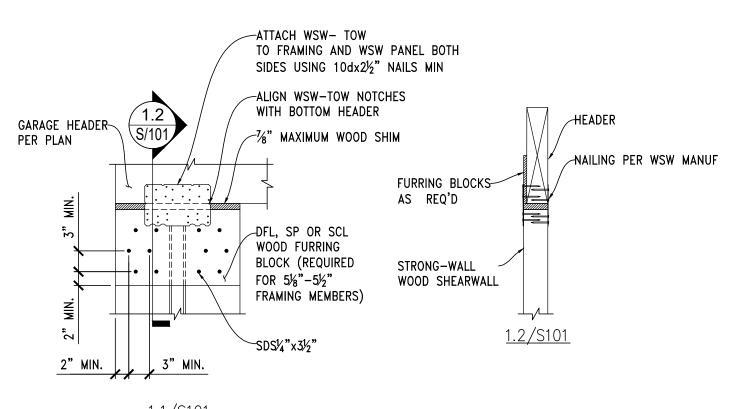
CENTER 45%" OF PANEL

≯8" OF PANEL

HOLE, MIN.

SCALE: 3/4"=1'-0"

ALLOWABĹE STRONG WALL HOLES



MATCH PLATE FROM HEADER TO T/ PLATE

STRUCTURAL ABBREVIATIONS

ANCHOR BOLT

ABOVE

ADDITIONAL

ADJACENT

ALTERNATE

воттом оғ

BUILDING

BLOCKING

BOTTOM OF

BRACE

BETWEEN

STANDARD CHANNEL CENTER TO CENTER

CAST IN PLACE

CLEAR(ANCE)

COLUMN

CONCRETE

CONNECTION

CONSTRUCTION

CONTINUOUS

COUNTERSINK

PENNY (NAILS)

CENTERED

DOUBLE

DETAIL

DEMOLITION

DOUGLAS FIR

DIAMETER

DIAGONAL

DOWN

DEPTH

EACH

DEAD LOAD

DRAWING(S)

DOWEL(S)

LEACH FACE

ELEVATION

ENGINEER

EQUAL(LY)

EACH WAY

EXPANSION

EXTERIOR

FLAT BAR

FINISH

FLOOR FOUNDATION

FOOTING

GAUGE

GALVANIZED

GRADE BEAM GENERAL

GEOTECHNICAL

GIRDER TRUSS

HOLDOWN

HEADER

HEM FIR

HORIZONTAL

INSIDE DIAMETER

GLUE LAMINATED BEAM

HOLLOW STRUCTURAL SECTION

FLOOR DRAIN

FLOOR JOIST

EXISTING

EMBEDMENT

EDGE NAILING

CONTROLLED DENSITY FILL

CONSTRUCTION OR CONTROL JOINT

COMPLETE JOINT PENETRATION

CONCRETE MASONRY UNIT

APPROXIMATE(LY)

ARCHITECT(URAL)

ALL-THREADED ROD

BOUNDARY NAILING

ADD'L

APPROX

ATR

BLDG

BLKG

BTWN

CONC

CONN

CONST

CONT

CTRD

CTSK

DEMO

DWG(S)

DWL(S)

EMBED

ENGR

EXIST, (E)

GALV

GEOTECH

INSIDE FACE

1,000 POUNDS

KIPS PER SQUARE INCH

DEVELOPMENT LENGTH

LONG LEG HORIZONTAL

LONG LEG VERTICAL

LAP SPLICE LENGTH

LAMINATED STRAND LUMBER

LAMINATED VENEER LUMBER

LONGITUDINAL

MECHANICAL

MANUFACTURER

MISCELLANEOUS

NOT IN CONTRACT

NOT TO EXCEED

NOT TO SCALE

OUTSIDE DIAMETER

ORIENTED STRAND BOARD

OPEN WEB STEEL JOIST

OPEN WEB WOOD JOIST

POUNDS PER CUBIC FOOT

ON CENTER

OPENING OPPOSITE

PRECAST

PLATE

PLYWOOD

RADIUS

REFERENCE

REQUIRED

RETAINING

REVISION

SCHEDULE

SECTION

SHEATHING

SLAB ON GRADE

STAINLESS STEEL

STANDARD

STIFFENER

STRUCTURAL

SYMMETRICAL TOP OF

TOP AND BOTTOM

TONGUE AND GROOVE

UNLESS NOTED OTHERWISE

STEEL

THICK THROUGH

TRUSS JOIST

TOP OF WALL

TRANSVERSE

VERTICAL

WITHOUT

WITH

WIDE FLANGE, WIDE

WELDED WIRE FABRIC

DOUBLE EXTRA STRONG

EXTRA STRONG

SPECIFICATION SQUARE

ROOF JOIST

ROOF TRUSS

REINFORCING

PRESTRESSED

PRE-MANUFACTURED

PRESSURE TREATED

POUNDS PER SQUARE INCH

PARALLEL STRANDED LUMBER

NEW

NOMINAL

INTERIOR

INVERT

POUND

LIVE LOAD

KIP, K

KSI

NTS

OPNG

OSB

lowsu

OWWJ

PCF

PSL

REINF

REQ'D

REV

SCHED

SECT

SQ

STD

STL

T&B

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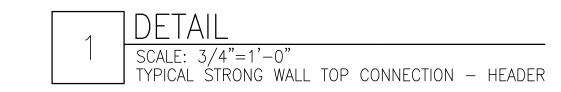
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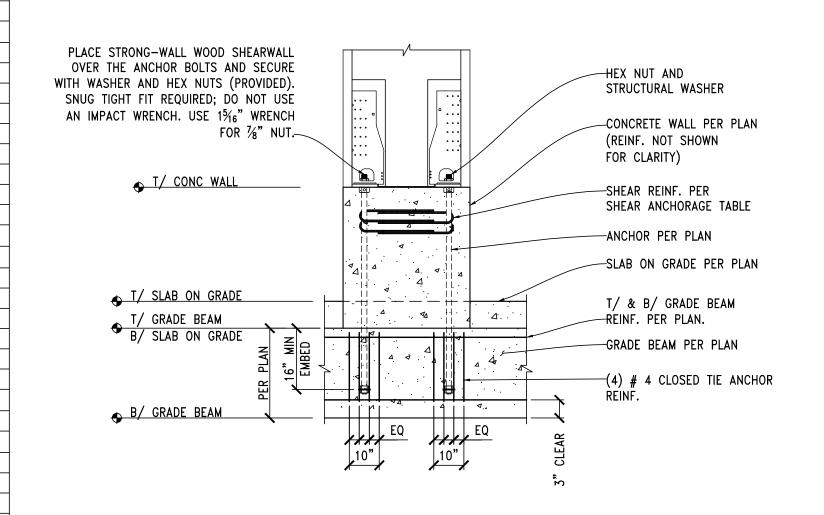
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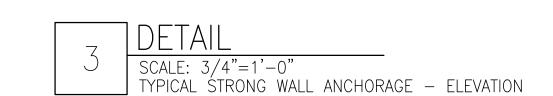
TOW

W/O

TRANSV







STRONG-WALL [®] WOOD SHEARWALL SHEAR ANCHORAGE							
		SEISMIC	; 3				
MODEL	L _h (in.)	SHEAR REINFORCEMENT	MINIMUM CURB/ STEMWALL	ASD ALLOWABLE SHEAR LOAD, V (lb.) ⁴			
	Wit		WIDTH (in.)	UNCRACKED	CRACKED		
WSW12	101/4	(1) #3 HAIRPIN⁵	8	1,035	740		
WSW18	15	(1) #3 HAIRPIN⁵	8	HAIRPIN REINFORCEMENT ACHIEVES MAXIMUM ALLOWABLE SHEAR LOAD OF THE WSW			
WSW24	19	(2) #3 HAIRPINS ⁵	8				

NOTES:

1. SHEAR ANCHORAGE DESIGNS CONFORM TO ACI 318-11 AND ACI 318-14 AND ASSUME MINIMUM 2,500 PSI

- CONCRETE. 2. SHEAR REINFORCEMENT IS NOT REQUIRED FOR INTERIOR FOUNDATION APPLICATIONS (PANEL INSTALLED
- AWAY FROM EDGE OF CONCRETE), OR BRACED WALL PANEL APPLICATIONS. 3. SEISMIC INDICATES SEISMIC DESIGN CATEGORY C THROUGH F. DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C MAY USE WIND ANCHORAGE SOLUTIONS.
- 4. USE (1) #3 TIE FOR WSW12 WHEN PANEL DESIGN SHEAR FORCE EXCEEDS TABULATED ANCHORAGE
- ALLOWABLE SHEAR LOAD. 5. 60 KSI REINFORCING SHALL BE USED.





	WOOD-FRAMED SHEAR WALL SCHEDULE													
	FOR HEM-FIR FRAMING W/ 8d COMMON NAILS (2015 IBC)													
SW TYPE	WALL SHEATHING APA RATED	EDGE NAILING	BOTTOM PLATE ATTACHMENT	FRAMING CLIP TO WALL BELOW	MINIMUM RIM BOARD THICKNESS	FRAMING AT PANEL EDGES	BLOCKING AT ALL PANEL EDGES	ANCHOR BOLT TO CONCRETE FOUNDATION	SILL PLATE AT FOUNDATION	ALLOWABLE CAPACI	SHEAR WAL TY (PLF)			
CWC	15 /70"		46 66 46 6 5" 66	LTD5 0 40" 00	1 1/4"	0.7	OV.	5/8" DIA @ 48" OC	PT 2X	0.40	339			
SW6	15/32"	8d @ 6" OC	16d COMMON @ 5" OC	LTP5 @ 18" OC	1 1/4	2X	2X	5/8" DIA @ 60" OC	PT 3X	242	339			
			(2) ROWS 16d COMMON @ 6"		4.7/4"	0.4	0.4	5/8" DIA @ 32" OC	PT 2X	757	105			
SW4	15/32"	8d @ 4" OC	0C. STAGGERED LIPS @ 12 0C 1 3/4 2/4 2/4	OC. STAGGERED LIPS @ 12 OC 1 3/4 2/4 2/4		OC, STAGGERED LIPS @ 12 OC 1 3/4 2X 2X		, I	2X		5/8" DIA @ 40" OC	PT 3X	353	495
0117	15 /70"	0 0 7" 00	(2) ROWS 16d COMMON @ 6"		4.7/4"	0.4	0.4	5/8" DIA @ 24" OC	PT 2X	450	0.77			
SW3	15/32"	8d @ 3" OC	OC, STAGGERED	LTP5 @ 10" OC	1 3/4"	2X	2X 2X	2x	5/8" DIA @ 32" OC	PT 3X	456	637		
01110	45 /70"		(2) ROWS 16d COMMON @ 4"		7.4./0"		3X OR FLAT	5/8" DIA @ 18" OC	PT 2X	505	0.70			
SW2	15/32"	8d @ 2" OC	OC, STAGGERED	LTP5 @ 6" OC	3 1/2"	3X	3X SX OR FLAT		5/8" DIA @ 24" OC	PT 3X	595	832		
2SW4	15/32" BOTH SIDES	8d @ 4" OC	(3) ROWS 16d COMMON @ 6" OC, STAGGERED	LTP5 @ 6" OC	3 1/2"	3X	3X	5/8" DIA @ 24" OC	PT 3X	707	990			
2SW3	15/32" BOTH SIDES	8d @ 3" OC	(3) ROWS 16d COMMON @ 4" OC, STAGGERED	LTP5 @ 8" OC & A35 @ 8" OC	3 1/2"	3X	3X	5/8" DIA @ 16" OC	PT 3X	911	1274			
2SW2	15/32" BOTH SIDES	8d @ 2" OC	(3) ROWS 16d COMMON @ 4" OC, STAGGERED	LTP5 @ 6" OC & A35 @ 6" OC	3 1/2"	3X	3X	5/8" DIA @ 12" OC	PT 3X	1190	1469			

SHEAR WALL SCHEDULE NOTES:

- 1. ALL NAILS ARE COMMON, UNO. REFERENCE GENERAL STRUCTURAL NOTES FOR NAIL DIAMETER AND LENGTH.
- REFERENCE SHEAR WALL KEY DETAIL FOR DESCRIPTION OF TERMS. 3. PROVIDE SHEAR WALL SHEATHING AND NAILING FOR ENTIRE LENGTH OF THE WALLS INDICATED ON THE PLANS. ENDS OF SHEAR WALLS ARE TYPICALLY AT
- WINDOWS, DOORWAYS OR AS SHOWN ON PLAN. 4. EDGE NAILING IS REQUIRED AT ALL HOLDOWN POSTS. EDGE NAILING IS REQUIRED TO EACH STUD USED IN BUILT-UP HOLDOWN POSTS. REFERENCE HOLDOWN SCHEDULE & DETAILS FOR ADDITIONAL INFORMATION.
- 5. INTERMEDIATE FRAMING TO BE 2x MINIMUM MEMBERS UNO IN SCHEDULE. ATTACH SHEATHING TO INTERMEDIATE FRAMING WITH EDGE NAILING AT 12"OC WHERE
- STUDS ARE SPACED AT 16"OC AND EDGE NAILING AT 6"OC WHERE STUDS ARE SPACED AT 24" 6. SIMPSON STRONG-TIE "A35" MAY BE USED IN LIEU OF "LTP5." "LTP5" CLIPS SHALL BE ORIENTED LENGTHWISE (HORIZONTAL) AT PLATE TO RIM. USE
- 0.131"Øx1½ NAILS WHERE "LTP" TYPE CLIPS ARE ATTACHED DIRECTLY TO FRAMING AS OPPOSED TO OVER SHEATHING. USE 0.131"Øx2½ NAILS WHERE "LTP" TYPE CLIPS ARE INSTALLED OVER SHEATHING. REFERENCE DETAIL 2/S102 FOR CLARIFICATION.
- 7. (2) 2x STUDS NAILED TOGETHER MAY BE USED IN PLACE OF SINGLE 3x STUD. DOUBLE 2x STUDS SHALL BE SECURED TOGETHER WITH FASTENERS OF THE SAME DIAMETER AND SPACING AS THE BOTTOM PLATE ATTACHMENT PER SCHEDULE. 8. WHERE SHEATHING IS APPLIED ON BOTH SIDES OF A SHEAR WALL AND NAIL SPACING IS LESS THAN 6"OC ON EITHER SIDE, THE WIDTH OF THE NAILED FACE
- OF THE FRAMING MEMBER SHALL BE 3" NOMINAL OR GREATER AT ADJOINING PANEL EDGES AND NAILS AT ALL PANEL EDGES SHALL BE STAGGERED. ALTERNATIVELY, PANELS SHALL BE STAGGERED SO THAT EDGE JOINTS ON OPPOSITE SIDES ARE NOT LOCATED ON THE SAME STUD. 9. ANCHOR BOLTS SHALL BE PROVIDED WITH HOT-DIPPED GALVANIZED STEEL PLATE WASHERS PER DETAILS ON DRAWINGS. EMBED ANCHOR BOLTS 7" MINIMUM INTO THE CONCRETE PROVIDE AN ANCHOR BOLT AT EACH END OF EACH PLATE AND SHALL BE AT LEAST 7 TIMES THE ANCHOR BOLT DIAMETER FORM THE ENDS OF THE PLATE, BUT NOT MORE THAN ½ THE TABULATED ANCHOR BOLT SPACING OR 12", WHICHEVER IS LESS. SEE ANCHOR BOLT DETAIL FOR PLATE
- WASHER & SPACING REQUIREMENTS PER SCHEDULE. 10. PROVIDE HOT-DIPPED GALVANIZED NAILS AND CONNECTOR PLATES (FRAMING ANGLES, ETC.) AT ALL PRESSURE TREATED LUMBER. REFERENCE

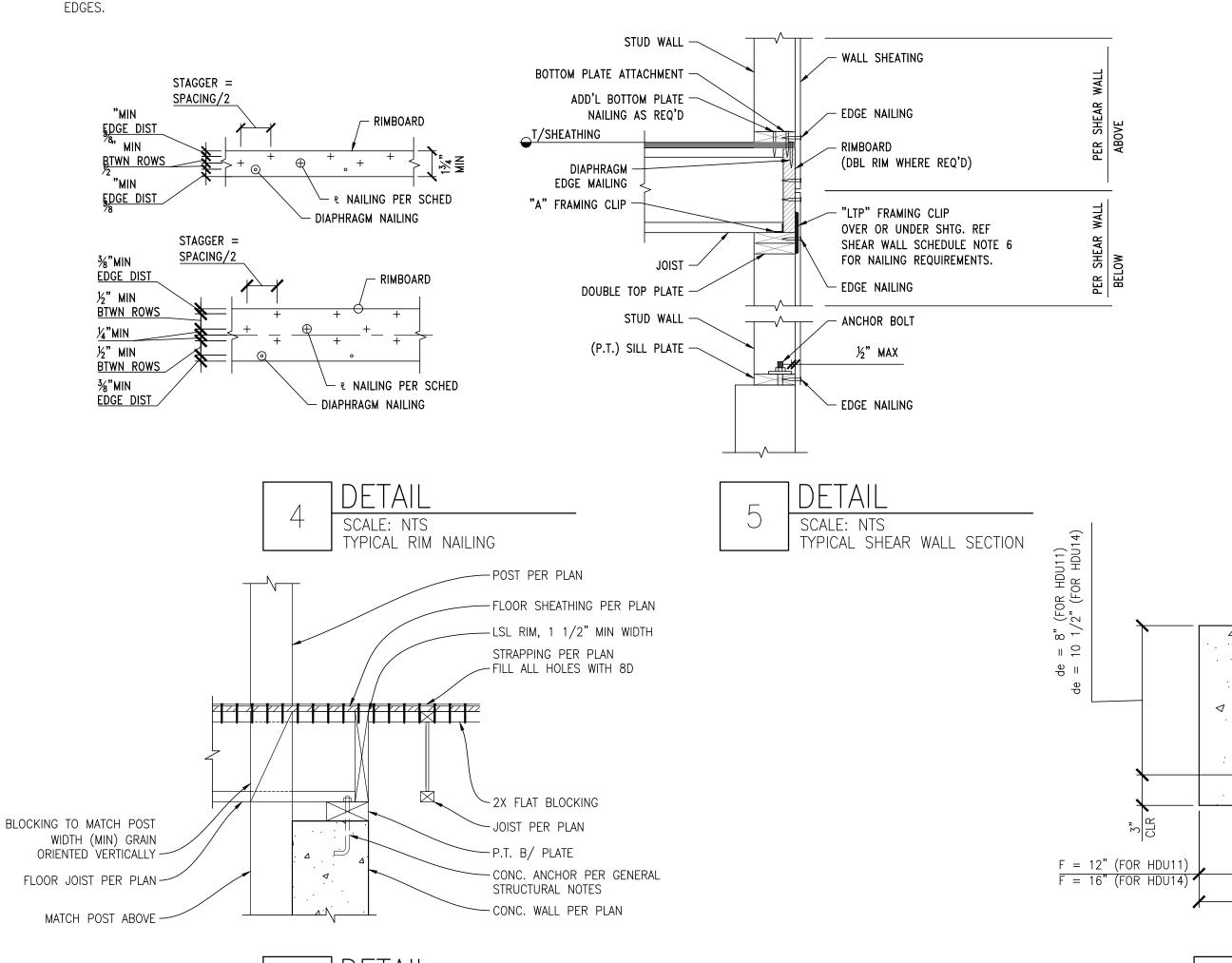
WASHER REQUIREMENTS. [ALT: %"ØX8" TITEN HD ANCHOR SCREWS MAY BE USED IN LIEU OF ANCHOR BOLTS AT EXISTING CONCRETE, WITH PLATE

- GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.
- 11. PANELS MAY BE INSTALLED HORIZONTALLY IF STUDS ARE SPACED AT 16"OC MAX. 12. STAGGER EDGE NAILING.
- 13. THE TOP EDGE OF THE WOOD STRUCTURAL PANEL SHALL BE ATTACHED TO THE UPPER TOP PLATE. ROOF OR UPPER LEVEL UPLIFT CONNECTORS
- SHALL BE ON THE SAME SIDE OF THE WALL AS THE SHEATHING. 14. THE BOTTOM EDGE OF THE WOOD STRUCTURAL PANEL SHALL EXTEND TO AND BE ATTACHED TO THE BOTTOM OR SILL PLATE.
- 15. REFERENCE DETAIL BELOW FOR STAGGERED NAIL AND SCREW SPACING AT RIM BOARDS.

SCALE: 1"=1'-0"

DIAPHRAGM STRAPPING

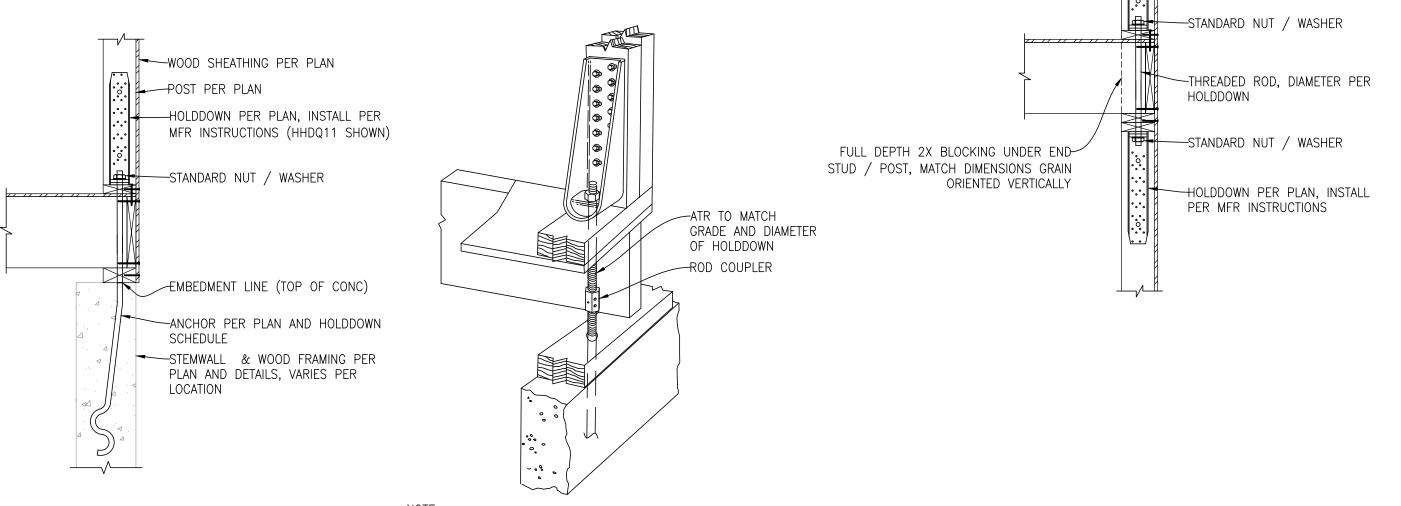
- 16. WALL TYPE ACCEPTABLE WITH TRUSJOIST AND BOISE CASCADE RIM JOIST AND BLOCKING.
- 17. PROVIDE PLATE WASHERS AT EACH ANCHOR BOLT THAT IS NOT LESS THAN 0.229" X 3" X 3".
- 18. FOR SW2, 3X FRAMING MEMBERS AND BLOCKING MUST BE PROVIDED AT ADJOINING PANEL EDGES, AND NAILS MUST BE STAGGERED AT PANEL



	HOLDOWN SCHEDULE (HF)						
MARK	MODEL #	ALLOWABLE UPLIFT		MIN END STUDS	STUD FASTENERS	CONCRETE	
1477 11 (1)		MID WALL	CORNER	END WALL	I IIII END STODS	OTOB THOTENERS	ANCHOR
HDU2	HDU2-SDS2.5		2,215		(2) 2X	(6) 1/4X2 1/2 SDS	SSTB16
HDU4	HDU4-SDS2.5		3,285		(2) 2X	(10) 1/4X2 1/2 SDS	SSTB16
HDU5	HDU5-SDS2.5		4,340		(2) 2X	(14) 1/4X2 1/2 SDS	SSTB20
HDU8	HDU8-SDS2.5		5,820		(2) 2X	(20) 1/4X2 1/2 SDS	SSTB
HDU11	HDU11-SDS2.5		8,030		4X6	(30) 1/4X2 1/2 SDS	PAB8
HDU14	HDU14-SDS2.5		9,260		4X6	(36) 1/4X2 1/2 SDS	PAB8

HOLDOWN SCHEDULE NOTES

- 1. REFERENCE FOUNDATION PLAN NOTE 1 FOR HOLDDOWNS AT EXISTING FOUNDATION LOCATIONS
- 2. HOLDOWNS SPECIFIED ARE BY SIMPSON STRONGTIE
- 3. REFERENCE PLANS FOR ADDITIONAL STUD REQUIREMENTS WHERE OCCUR 4. PROVIDE 1/4" X 3" SQ PLATE WASHER BETWEEN STANDARD DOUBLE NUTS. EMBED LENGTH EQUAL TO TOP OF CONCRETE DOWN TO TOP OF PLATE WASHER
- 5. INCREASE FOOTING DEPTH LOCALLY AS REQUIRED TO ACHIEVE REQUIRED EMBEDMENT DEPTH AS SPECIFIED BY HOLDDOWN MANUFACTURER
- 6. REF. 7/S102 FOR PAB ANCHOR DETAIL
- 7. REF. 1/S102 & 2/S102 FOR STHD ANCHOR DETAIL 8. INCREASE FOOTING WIDTH AND DEPTH AS REQUIRED @ PAB ANCHORS



1) FULL DEPTH COMPRESSION BLOCKING MATCHING STUD / POST WIDTH (GRAIN ORIENTED VERTICALLY) SHALL BE REQUIRED IN FLOOR INTERSTITIAL SPACE UNDER COLUMNS, STUD PACKS, AND HOLDDOWNS. 1) RIM & COMPRESSION BLOCKING NOT SHOWN FOR CLARITY.



DETAIL
SCALE: NTS TYPICAL HDU TYPE HOLDDOWN ISOMETRIC

	3	DETAIL		
		SCALE: NTS THRU FLOOR HOLDDOWN	W/	- HDU

WOOD SHEATHING PER PLAN

—HOLDDOWN PER PLAN, INSTALL PER

-POST PER PLAN

MFR INSTRUCTIONS

	TIEDOWN STRAP SCHEDULE					
STRAP	MINIMUM END LENGTH	NAILING REQ'D AT EA END LENGTH	ALLOWABLE UPLIFT (LBS)			
CS20	9"	(16) 0.131 x 2 1/2"	1,030			
CS16	15"	(26) 0.131 x 2 1/2"	1,370			
CS14	19"	(36) 0.131 x 2 1/2"	2,490			
CMSTC16	25"	(56) 0.148 x 3"	4,585			
CMST14	34"	(76) 0.148 x 3"	6,490			
CMST12	44"	(98) 0.148 X 3"	9,215			

TIE DOWN STRAP SCHEDULE NOTES

HOLDDOWN PER PLAN

PER PLAN & HOLDDOWN

HEAVY HEX NUT

-PLATE WASHER

CONC FOOTING

PAB ANCHOR

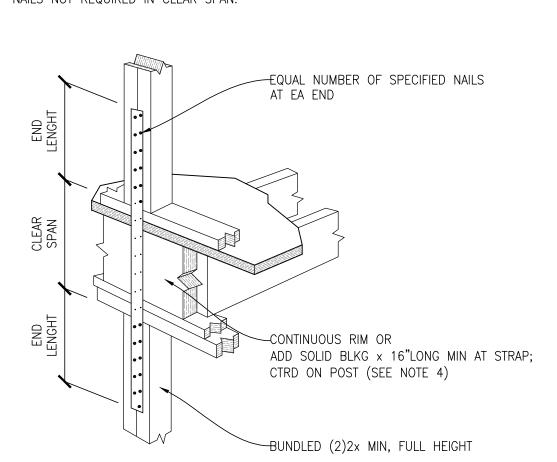
B/ PL PER PLAN

SCHEDULE -

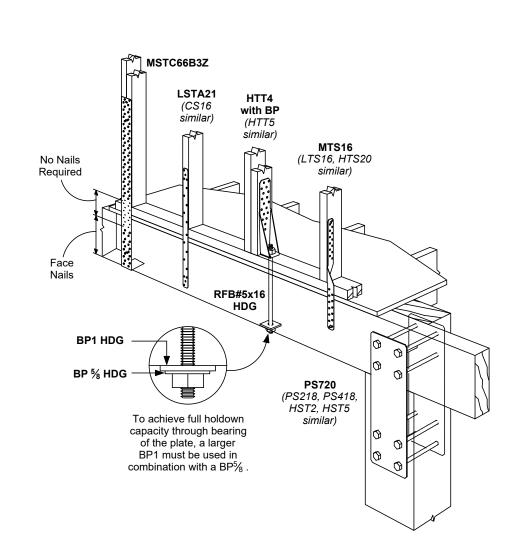
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PAB ANCHOR

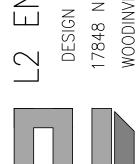
- . FOLLOW ALL SIMPSON STRONG—TIE GUIDELINES NECESSARY TO ACHIEVE FULL ICC DESIGN VALUES.
- STRAP MAY BE INSTALLED OVER OR UNDER PLYWOOD.
- EDGE NAIL PLYWOOD TO STRAPPED POST.
- . WHERE STRAPS OCCUR OVER FLOOR BEAM, REFER STRUCTURAL DRAWINGS FOR ADD'L DETAIL.
- ADDED BLKG MAY BE ELIMINATED WHERE FLOOR FRAMING IS DIRECTLY BETWEEN POST. 6. NAILS NOT REQUIRED IN CLEAR SPAN.

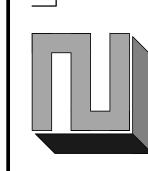


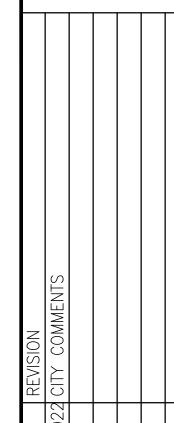


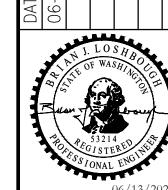


SCALE: NTS FLOOR TO BEAM / RIM HOLDDOWNS ENGINE









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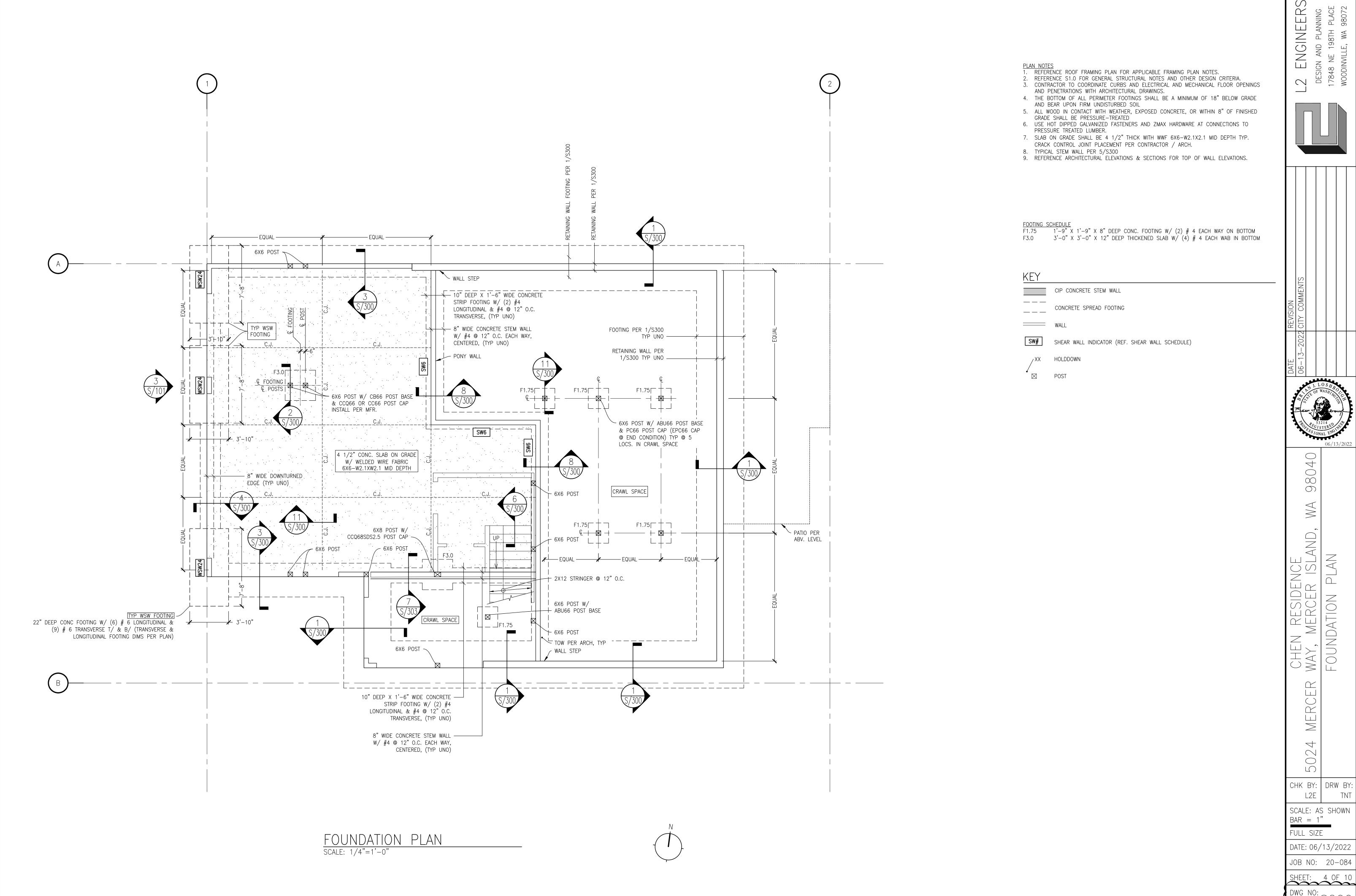
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CHK BY: DRW BY

SCALE: AS SHOWN BAR = 1" FULL SIZE

DATE: 06/13/2022 JOB NO: 20-084

SHEET: 3 OF 10



1. DIMENSIONS: VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS.

2. ALL RIMS SHALL BE 1-3/4" LSL TYP, U.N.O. 3. MATCH BUNDLED STUDS FROM ABOVE TYP, U.N.O.

4. FLOOR SHEATHING SHALL BE 23/32" APA-RATED STURD-I-FLOOR T&G SHEATHING FACE GRAIN PERPENDICULAR TO FLOOR FRAMING, GLUE & NAIL W/ 10D @ 6" OC EDGES, 10D @ FIELD (UNBLOCKED), TYP.

5. FULLY BLOCK ALL REPETITIVE MEMBERS AT BEARING CONDITIONS, TYP. 6. ALL EXTERIOR WALLS SHALL BE SW-6, UNO ON PLAN.

7. PANEL EDGE NAIL SHEATHING TO FRAMING MEMBERS ALIGNED OVER SHEAR WALLS, TYP. 8. AT ALL WOOD-FRAMED, BEARING AND SHEAR WALLS, REFERENCE STUD GRADE, SIZES AND SPACING PER GENERAL NOTES.

9. ALL EXTERIOR WALLS SHALL BE FRAMED WITH 2X6 STUDS AT 16" ON CENTER, TYP, U.N.O. 10. PROVIDE LUS SERIES HANGERS AT ALL FLUSH FRAMED JOIST CONDITIONS, TYP, U.N.O. 11. PROVIDE ITS SERIES HANGERS AT ALL FLUSH FRAMED JOIST CONDITIONS, TYP, U.N.O.

12. ENGINEERED JOIST BRACING PER JOIST MANUFACTURER, TYP. 13. FULLY BLOCK FLOOR CAVITY AT ALL POINT LOADS. VERIFY POINT LOADS ARE SUPPORTED

CONTINUOUSLY THROUGH FLOORS TO THE FOUNDATION. 14. ALL HEADERS TO BE 4x10 MINIMUM. HEADERS SHALL BE SUPPORTED BY (2) 2X STUDS MINIMUM, UNO ON PLAN.

15. 2X8 LEDGER WITH (2) 5/8" DIAMETER X 5" LONG TITAN HD @ 16" O.C. (CTR'D BETWEEN

16. SUPPORT BEAMS WITH (3) 2X STUDS MINIMUM, UNO ON PLAN. 17. TYP STAIR STRINGERS - 2X12 @ 12" O.C. W/ LSC ADJUSTABLE STRINGER CONNECTOR AT

ENDS. 18. ROOF SHEATHING SHALL BE 15/32" APA-RATED PLYWOOD STRUCTURAL SHEATHING FACE GRAIN PERPENDICULAR TO ROOF FRAMING, NAIL W/ 8D @ 6" OC EDGES, 8D @ 12" O.C.

20. CLERESTORY STUDS SHALL BE LSL 1 3/4 X 5 1/2 @ 12" O.C. FASTEN TOP AND BOTTOM W/ (1) A35 FRAMING CLIP.

FOOTING SCHEDULE F4.0X3.0 4'-0" X 3'-0" X 12" DEEP CONC. FOOTING

19. OFFSET JOISTS AS REQUIRED TO AVOID PLUMBING FIXTURES

W/ # 4 @ 12" O.C. EACH WAY IN BOTTOM

CIP CONCRETE STEM WALL

CONCRETE SPREAD FOOTING

= = WALL BELOW

SHEAR WALL INDICATOR (REF. SHEAR WALL SCHEDULE)

HOLDDOWN

POST BELOW

☐ HANGER

ENGINE



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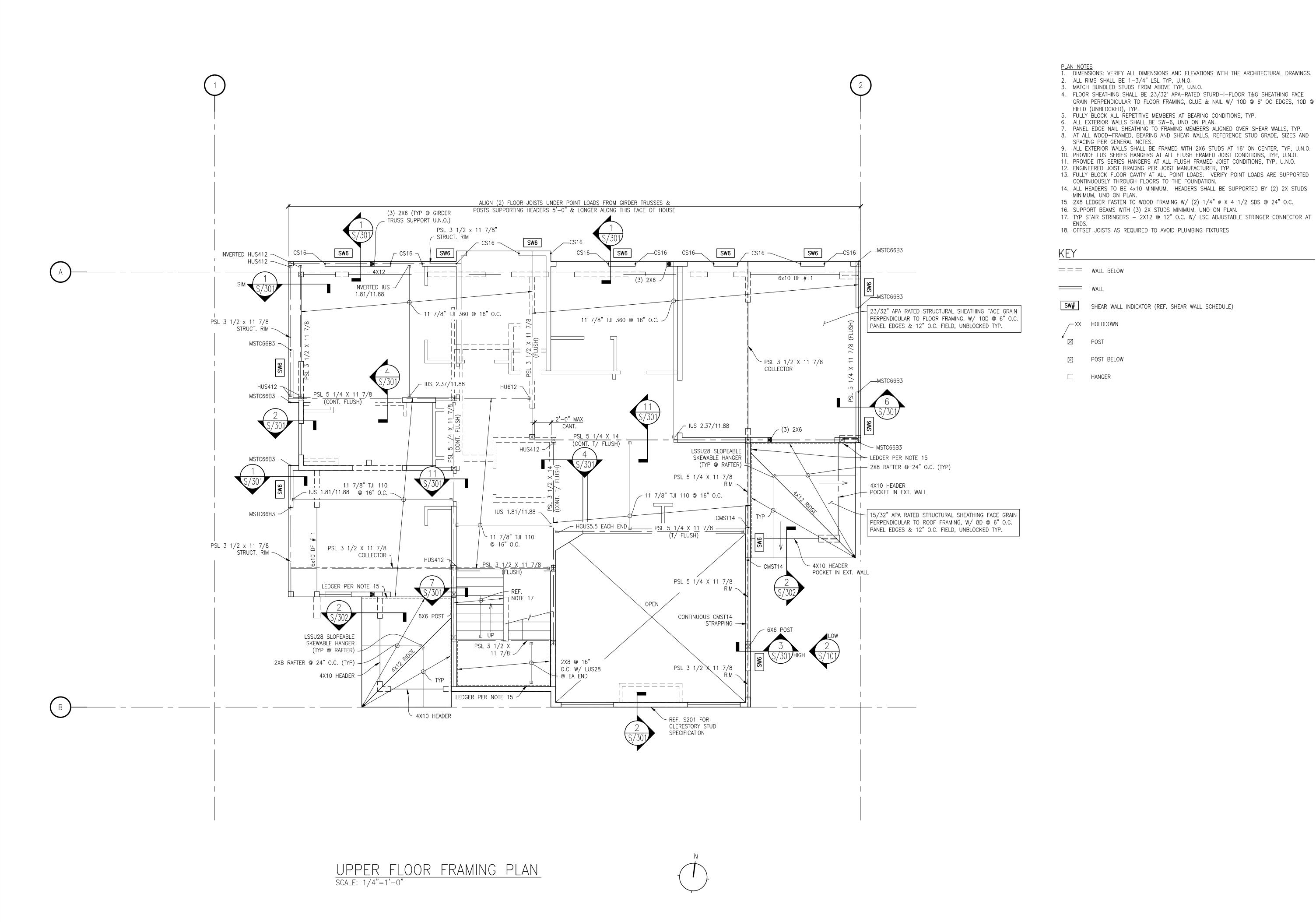
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DATE: 06/13/2022

JOB NO: 20-084

SHEET: 5 OF 10



4. FLOOR SHEATHING SHALL BE 23/32" APA-RATED STURD-I-FLOOR T&G SHEATHING FACE GRAIN PERPENDICULAR TO FLOOR FRAMING, GLUE & NAIL W/ 10D @ 6" OC EDGES, 10D @

ENGINEERS

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HEN RESIDENCE NY, MERCER ISLAND, FLOOR FRAMING PLA

CHK BY: DRW BY:

SCALE: AS SHOWN BAR = 1"

FULL SIZE

DATE: 06/13/2022

JOB NO: 20-084 SHEET: 6 OF 10

