PIHA RESIDENCE

3745 77th Ave SE - MERCER ISLAND, WA.

ALARMS per R314.5 and R315..4

BUILDING CODES

CITY OF MERCER ISLAND CODES AT THE

2018 INTERNATIONAL BUILDING CODE (IBC)

2018 WASHINGTON STATE ENERGY CODES

2018 INTERNATIONAL FIRE CODE (IFC)

2018 NATIONAL ELECTRIC CODE (NEC)

2018 UNIFORM PLUMBING CODE (UPC)

2018 POOL AND SPA CODE

2018 ICC A117.1, BARRIER-FREE STANDARD

2018 INTERNATIONAL RESIDENTIAL CODE (IRC)

2018 INTERNATIONAL MECHANICAL CODE (IMC)

2018 INTERNATIONAL FUEL GAS CODE (IFGC)

FOR THIS SET

DATE OF THIS DRAWING SET:

FLOOR PLAN GENERAL NOTES

GENERAL

- A. ALL ANGLED WALLS (OTHER THAN 90°) SHALL BE CONSTRUCTED AS NOTED BY ANGLE (DEGREES) CALLOUT OR CONFIGURED AS DIMENSIONED. (UNO.)
- B. ALL DIMENSIONS AT WALLS ARE TO THE FACE OF FRAMING STUDS.
- C. ALL EXTERIOR WALLS ENCLOSING CONDITIONED SPACE SHALL BE 2x6 STUDS at 16" OC. and INTERIOR WALLS TO BE 2x4 STUDS at 16" OC. per IRC. R602.3.2 (UNO.)
- D. ALL DIMENSIONS AT WINDOWS ARE TO THE CENTERLINE
- E. WINDOW SIZES NOTED ON PLANS ARE NOMINAL SO CONTRACTOR MUST VERIFY EXACT ROUGH OPENINGS PRIOR TO FRAMING. WINDOW and DOOR HEAD HEIGHTS SHOULD BE COORDINATED SO THAT ALL WINDOW and DOOR TRIMS ALIGN.
- F. PROVIDE WEATHER PROTECTION SYSTEM W/WATER-RESISTIVE BARRIERS IN COMBINATION w/FLASHINGS at EXT. WALLS, OPENINGS, PROJECTIONS, PENETRATIONS and INTERSECTIONS TO LOCK OUT ALL MOISTURE per IRC. R703.1-703.4
- G. TILE INSTALLATION SHALL COMPLY W/APPLICABLE SECTIONS OF THE TILE COUNCIL OF AMERICA'S "HANDBOOK FOR CERAMIC TILE INSTALLATION" and ITS REFERENCED STANDARDS including IRC. R702.4.1
- H. ALL COUNTERS, TUB DECKS & WALLS AT TUBS & SHOWERS SHALL HAVE SMOOTH, HARD, NON-ABSORBENT SURFACE O/CEMENTITIOUS BACKER BOARD and MOISTURE RESISTANT UNDERLAYMENT per IRC. R702.4.2 NONABSORBENT AT TUB \$ SHOWER WALLS SHALL BE TO A HEIGHT OF +72" MIN. ABOVE DRAIN INLET per IRC. R307.2
- I. ALL SHOWERS AND ALL SHOWER RECEPTORS SHALL COMPLY WITH THE 2018 UNIFORM PLUMBING CODE.
- J. CALCULATIONS and DETAILS FOR MOUNTING HEIGHTS & CONNECTION OF METAL GUARDRAILS (IF USED) SHALL BE PROVIDED FOR REVIEW and APPROVAL BY RAILING FABRICATOR PRIOR TO INSTALLATION FOR COMPLIANCE W/IRC R3II & R3I2
- K. ALL REQUIREMENTS FOR BUILDING ENVELOPE TO COMPLY WITH THE 2018 WASHINGTON STATE ENERGY CODE (WSEC). SEE REQ'D ENERGY CREDITS ON THIS SHEET ALONG W/ ENI FOR PRESCRIPTIVE REQUIREMENTS and COMPLIANCE NOTES FOR SINGLE FAMILY RESIDENTIAL IN CLIMATE ZONE 5 and MARINE
- L. WSEC COMPLIANCE CERTIFICATE REQUIRED WITHIN 3' OF ELECTRICAL PANEL.
- M. EXHAUST FANS LARGER THAN 50cfm. MAY BE CONNECTED TO 4" SMOOTH WALL VENT PIPE IF RUNS DO NOT EXCEED 20' IN LENGTH, THE MINIMUM SIZE OF FLEX DUCT IS 5" DIAMETER WITH MAXIMUM RUN OF 15'.
- N. COMBUSTION AIR REQUIRED FOR ALL FUEL BURNING APPLIANCES. ALL INGITION SOURCES TO BE min. 18" ABV. GARAGE FLOOR per IRC. MI307.3
- O. PROVIDE FIREBLOCKING TO CUT OFF DRAFT OPENINGS AT LOCATIONS W/MATERIALS per IRC. R302.II PROVIDE DRAFTSTOPPING AT FLOOR/CEILING ASSEMBLIES per IRC. R302.12
- P. ALL WASTE PLUMBING DROPS TO BE ON INTERIOR WALLS OR FURRED OUT EXTERIOR WALLS.
- Q. PROVIDE ACOUSTICAL PIPE WRAP AT ALL UPPER LEVEL WASTE LINES
- R. ALL OPENINGS MADE IN WALLS, FLOORS or CEILINGS FOR THE PASSAGE OF PIPES, STRAINER PLATES ON DRAIN INLETS, TUB WASTE OPENINGS TO CRAWLSPACE and METER BOXES TO COMPLY w/THE CODE REQUIREMENTS OF THE GOVERNING UPC.
- S. ENTRY STEPS SHALL HAVE SUFFICIENT GRADE BUILT UP AROUND THEM SO THE NUMBER OF STAIR RISERS DOES NOT EXCEED 3, W/MAX. RISER HEIGHT OF 73 -
- NOT REQUIRING A HANDRAIL per IRC. R311.7.8 T. ALL EXTERIOR HOSE BIBS TO HAVE NON-REMOVABLE VACUUM BREAKERS, MUST BE FROSTPROOF and BE CAULKED and SECURED AT
- U. INTERIOR CEILING HEIGHTS ARE AS FOLLOWS;

MAIN FLOOR 10'-0" (U.N.O.) UPPER FLOOR 9'-1 1/8" (U.N.O.)

SAFETY GLAZING

DESTROYING GLASS per IRC. R308.1

EXT. WALLS.

SAFETY GLAZING INSTALLED IN HAZARDOUS LOCATIONS AS REQUIRED BY THIS SECTION SHALL HAVE MFGR'S DESIGNATION w/TYPE, THICKNESS and SAFETY GLAZING STANDARD with WHICH IT COMPLIES MARKED BY PERMANENT MEANS THAT CANNOT BE REMOVED WITHOUT

IRC. R308.4 REQUIRES THAT SAFETY GLAZING TO BE INSTALLED IN ALL HARARDOUS LOCATIONS per DEFINED REQUIREMENTS and EXCEPTIONS SPECIFIED IN IRC. R308.4.1 through R308.4.7

- I. GLAZING IN DOORS.
- 2. GLAZING ADJACENT TO DOORS.
- 3. GLAZING IN WINDOWS MEETING ALL (4) CONDITIONS LISTED.
- 4. GLAZING IN GUARDS and RAILINGS
- 5. GLAZING IN and NEAR WET SURFACES.
- 6. GLAZING ADJACENT TO STAIRS and RAMPS 7. GLAZING ADJACENT TO THE BOTTOM STAIR LANDING.
- SKYLIGHTS and SLOPED GLAZING SHALL COMPLY with

THE MATERIALS and REQUIREMENTS OF IRC. R308.6.1 through R308.6.9

EGRESS WINDOWS

WINDOWS PROVIDING EMERGENCY ESCAPE and RESCUE OPENING REQUIRED AT BASEMENTS, HABITABLE ATTICS and ALL SLEEPING ROOMS and SHALL OPEN DIRECTLY INTO A PUBLIC WAY or YARD TO SAME per IRC. R3

- WINDOW CANNOT REQUIRE KEYS, TOOLS or SPECIAL KNOWLEDGE TO OPEN per IRC. 310.1.1
- MUST HAVE AN OPENING AREA OF NOT LESS THAN 5.7 Sq.Ft. with 20" min. WIDTH and 24" min. HEIGHT per IRC.
- MUST HAVE A SILL HEIGHT OF NOT MORE THAN 44" ABV. FLOOR per IRC. R310.2.2
- GUARDS MUST BE PROVIDED AS WINDOW FALL PROTECTION AT LOW WINDOWS LOCATED GREATER THAN 72" ABV. FINISHED GRADE per IRC. R312.2 STAIRS and HANDRAILS

STAIRWAYS PROVIDING EGRESS FROM HABITABLE LEVELS NOT PROVIDED w/EGRESS DOOR per IRC. R311.2 SHALL MEET THE REQUIREMENTS and EXCEPTIONS OF IRC. R311.7.1 through R311.7.9 INCLUDING:

HANDRAIL W/MAX. HANDRAIL PROJECTION INTO STAIRWAY OF 4½" ON EITHER SIDE per R311.7.1 • SHALL PROVIDE A MIN. HEADROOM OF 6'-8"

• SHALL PROVIDE A MIN. CLEAR WIDTH OF 36" ABOVE

- MEASURED VERTICALLY FROM THE NOSE OF TREADS or LANDINGS per R311.7.2
- SHALL NOT HAVE A VERTICAL RISE GREATER THAN 151" BTWN. FLOOR LEVELS or LANDINGS per R311.7.3 SHALL MEET THE WALKLINE REQUIREMENTS AT WINDER
 TREADS.

TREADS per R311.7.4

- SHALL HAVE A MAX. RISER HEIGHT OF 72" and HAVE A MIN. TREAD DEPTH OF IO" THE GREATEST DIMENSION OF ANY RISER OR TREAD MUST NOT EXCEED THE SMALLEST DIMENSION BY MORE THAN 3". TREADS LESS THAN II" SHALL MEET NOSING REQUIREMENTS. THE OPENINGS AT OPEN RISERS SHALL NOT PERMIT THE PASSAGE OF A 4" PSPHERE per R311.7.5.1 through
- · LANDINGS AT TOP and BOTTOM OF STAIRS SHALL MEET THE REQUIREMENTS OF R311.7.6
- THE WALKING SURFACE OF TREADS and LANDINGS SHALL NOT BE SLOPED MORE THAN 2% PER R311.7.7
- HANDRAILS SHALL BE PROVIDED ON AT LEAST ONE SIDE OF EACH CONTINUOUS RUN OF TREADS w/(4) or MORE RISERS. THE TOP OF HANDRAIL SHALL BE 34-38" ABY. LINE CONNECTING NOSINGS, HAVE MIN. 12" SPACE BETWN. RAIL and WALL, HANDRAIL MUST RUN CONTINUOUS FOR FULL LENGTH OF EACH FLIGHT and
- MEET APPROVED GRIP-SIZE per IRC. R311.7.8 • SHALL BE PROVIDED W/ILLUMINATION per IRC. R303.7 at INTERIOR STAIRWAYS and R303.8 at EXTERIOR

STAIRWAYS. GUARDS

GUARDS SHALL BE PROVIDED IN ACCORDANCE W/REQUIREMENTS and EXCEPTIONS OF IRC. R312.1 through

- ALONG OPEN-SIDED WALKING SURFACES, INCLUDING STAIRS, RAMPS and LANDINGS LOCATED 30" or GREATER ABOVE ADJACENT FLOOR LEVEL per IRC.
- OPENINGS MUST PREVENT THE PASSAGE OF A 4" SPHERE or 43" AT OPEN SIDES OF STAIRS or 6" AT TRIANGLE OF TREAD, RISER & BOTTOM RAIL per
- GUARDS MUST BE PROVIDED AS WINDOW FALL PROTECTION AT LOW WINDOWS LOCATED GREATER THAN 72" ABV. FINISHED GRADE per IRC. R312.2

GUARDS and HANDRAILS MUST RESIST A SINGLE CONCENTRATED LOAD OF 2001bs. IN ANY DIRECTION ALONG THE TOP and GUARD INFILL MUST RESIST A 501b. LOAD APPLIED HORIZ. OVER I Sq.Ft. per IRC. TABLE R301.5

SMOKE ALARMS and CARBON MONOXIDE ALARMS REQUIRED IN ALL NEW DWELLINGS SHALL MEET REQUIREMENTS and EXCEPTIONS OF NFPA 72, IRC. R314

- SMOKE ALARMS TO BE LISTED and INSTALLED IN ACCORDANCE W/IRC. R314.1.1 and CARBON MONOXIDE ALARMS IN ACCORDANCE W/IRC. 315.1.1
- SMOKE ALARMS SHALL BE INSTALLED IN FOLLOWING LOCATIONS per R314.3 :
- I. IN EACH SLEEPING ROOM.
- 2. OUTSIDE EACH SEPARTE SLEEPING AREA.
- 3. ON EACH STORY OF THE DWELLING. 4. NOT LESS THAN 3' FROM A BATHROOM W/TUB or
- 5. NOT NEAR COOKING APPLIANCES per R314.3.1
- SMOKE ALARMS SHALL BE INTERCONNECTED per
- CARBON MONOXIDE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS per R315.3:
- I. ON EACH STORY OF THE DWELLING 2. ADJACENT TO EACH SEPARATE SLEEPING AREA.
- 3. WITHIN BEDROOMS WHERE A FUEL BURNING FIREPLACE IS LOCATED IN THE ROOM or ITS
- ALL ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM BUILDING WIRING W/BATTERY BACKUP per R314.6 and R315.5
- COMBINATION SMOKE and CARBON MONOXIDE ALARMS SHALL BE PERMITTED IN LIEU OF SEPARATE

ABBREVIATIONS

AB Anchor Bolt EXC Excavate MED Medium SQFT Square feet ABV Above EXH Exhaust MEMB Membrane STC Sound Transmissis AD Area Drain EXIST Existing MFR Manufacturer Coefficient ADDL Additional EXT Exterior MIN Minimum STD Standard ADH Adhesive FBD Fiberboard MIR Mirror STL Steel ADJ Adjustable FCB Fiber Cement Board AFF Above Finish Floor FCO Floor clean out MLB Micro Laminate Beam STRUCT Structure or AGG Aggregate FD Floor drain MMB Membrane Structural ALT Alternate FIN Finish MTL Metal SY Square yard ALUM Aluminum FIXT Fixture MWK Millwork T Tread ANC Anchor FLOR Fluorescent NIC Not in Contract T&G Tongue and Groot APX Approximate FLR Floor NO # TEL Telephone TEMP Tempered AUTO Automatic FND Foundation NOM Nominal TK Tight Knot AVR Average FO Face Of NTS Not to Scale TME To Match Existing AWG American Wire Gauge FOC Face of Concrete O Non-Operable Window TO Top Of AWN Awning FOM Face of Masonry Section TOB Top of Beam BLOG Building FPL Fireplace OD Outside Diameter TOF Top of footing BLKG Blocking FRMF Frame(ing) OH Overhang TOJ Top of joist BUW Below FRPFFireproof	## And ## CELEV Elevation	And At A/C Air Conditioner AB Anchor Bolt ABV Above AD Area Drain ADDL Additional ADH Adhesive ADJ Adjustable AFF Above Finish Floor AGG Aggregate ALT Alternate ALUM Aluminum ANC Anchor APX Approximate ASPH Asphalt AUTO Automatic AVR Average AWG American Wire Gaug AWN Awning B/O By Others BD Board BLDGBuilding BLKGBlocking BLW Below BM Beam BOF Bottom of footing BOT Bottom BOW Bottom of wall BR Bedroom BSMTBasement BTW Between BYND Beyond CAB Cabinet CAS Casement CB Catch Basin Ventilating CC Center to Center CIP cast—in—place CJ Control Joint CL Centerline CLG Ceiling CLR Clear	ELEV Elevation EQ Equal EW Each Way EXC Excavate EXH Exhaust EXIST Existing EXT Exterior FBD Fiberboard FCB Fiber Cement Board FCO Floor clean out FD Floor drain FIN Finish FIXT Fixture FLOR Fluorescent FLR Floor FLSH Flashing FND Foundation FO Face Of FOC Face of Concrete FOM Face of Masonry FOS Face of Studs FOW Face of Wall FPL Fireplace FRM Frame(ing) FRPF Fireproof FT Foot FT Foot FTG Footing FUR Furred GA Gauge GALVGalvanized GFCI Ground Fault Circuit Interrupt GFI Ground Fault Interrupt GCI Glass GLB Glue Laminated Bean	MDO Medium Density Overlay MECH Mechanical MED Medium MEMB Membrane MFR Manufacturer MIN Minimum MIR Mirror MISC Miscellaneous MLB Micro Laminate Beam MMB Membrane MTL Metal MWK Millwork NIC Not in Contract NO # NO Number NOM Nominal NTS Not to Scale O Non-Operable Window Section OBS Obscure OC On Center OD Outside Diameter OH Overhang OP Opaque OPG Opening OPNG Open	SPEC Specification SQ Square SQ IN Square inche SQFT Square feet STC Sound Transmission Coefficient STD Standard STL Steel STR Structural STRUCT Structure or Structural SY Square yard T Tread T&G Tongue and Groov TEL Telephone TEMP Tempered TK Tight Knot TME To Match Existing TO Top Of TOB Top of Beam TOC Top of curb/ Top Concrete TOF Top of footing TOJ Top of joist TOW Top of wall TP Toilet Paper Hang TYP Typical UNO Unless Noted Otherwise VB Vapor barrier VERT Vertical W/ With W/O Without
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DW Dishwasher LVL Laminated Veneer SECT Section SGD Sliding Glass Door EA Each LVR Louver EF Exhaust fan MAS Masonry EJ Expansion Joint MAX Maximum SECT Section SGD Sliding Glass Door SH Shelf SHTHSheathing SIM Similar	DW Dishwasher LVL Laminated Veneer SECT Section DWG Drawing Lumber SGD Sliding Glass Door EA Each LVR Louver SH Shelf EF Exhaust fan MAS Masonry SHTHSheathing EJ Expansion Joint MAX Maximum SIM Similar				
DWG Drawing Lumber SGD Sliding Glass Door EA Each LVR Louver SH Shelf EF Exhaust fan MAS Masonry SHTHSheathing EJ Expansion Joint MAX Maximum SIM Similar	DWG Drawing Lumber SGD Sliding Glass Door EA Each LVR Louver SH Shelf EF Exhaust fan MAS Masonry SHTHSheathing EJ Expansion Joint MAX Maximum SIM Similar				
EA Each LVR Louver SH Shelf EF Exhaust fan MAS Masonry SHTHSheathing EJ Expansion Joint MAX Maximum SIM Similar	EA Each LVR Louver SH Shelf EF Exhaust fan MAS Masonry SHTHSheathing EJ Expansion Joint MAX Maximum SIM Similar				
EF Exhaust fan MAS Masonry SHTHSheathing EJ Expansion Joint MAX Maximum SIM Similar	EF Exhaust fan MAS Masonry SHTHSheathing EJ Expansion Joint MAX Maximum SIM Similar				
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		LL LIGIGION	MDI/ MELLIDE		

PROJECT TEAM

ARCHITECTURAL DESIGN -JAYMARC HOMES

ARCHITECTURAL DRAFTING JAYMARC HOMES - 425.226.9100 - JAYMARCHOMES.COM RYAN REDMAN - RYAN@JAYMARCHOMES.COM

M&K ENGINEERING

MULHERN & KULP - 215.646.8001 - MULHERNKULP.COM RICHARD ZABEL - RZABEL@MULHERNKULP.COM

COVER SHEET

	SHEET#	DESCRIPTION
	A1	COVERSHEET
cation	A1.1	A.D.U FLOOR PLAN INFORMATION
quare inches feet Transmission	A2	SITE PLAN
rd	A3	FOUNDATION PLAN
ral ructure or	A4	MAIN FLOOR FRAMING PLAN
yard and Groove	A5	MAIN FLOOR PLAN
one red (not	A6	UPPER FLOOR FRAMING PLAN
ch Existing Beam	A7	UPPER FLOOR PLAN
curb/ Top of footing	A8	ROOF FRAMING PLAN
joist wall Paper Hanger	A9	ROOF PLAN
Noted	A10	EXTERIOR ELEVATIONS
barrier I n field	A11	EXTERIOR ELEVATIONS
n IIeia :	A12	BUILDING SECTIONS
(water closet)	S0.0	LATERAL - STRUCTURAL GENERAL NOTES
Heater Closet Proofing	LB-1	LATERAL - DETAILS
rproof r Resistant r Resistive	LB-2	LATERAL - DETAILS
Wire Fabric le Window	LB-3	LATERAL - DETAILS
	SD.01	FOUNDATION DETAILS
	D1	WATER INTRUSION DETAILS
	E1	MAIN FLOOR ELECTRICAL LAYOUT
	E2	UPPER FLOOR ELECTRICAL LAYOUT
	EN1	2018 ENERGY CODE CALCULATIONS

GENERAL INFORMATION

APPLIES FULL SET

F.A.R. CALCULATIONS:

SQUARE FOOTAGE	SUMMARY
MAIN FLOOR/ MAIN LIVING	1,700 S.F.
MAIN FLOOR A.D.U.	83 S.F.
GARAGE	712 S.F.
SUB TOTAL	2,495 S.F.
UPPER FLOOR/ MAIN LIVING	1,459 S.F.
UPPER FLOOR A.D.U.	687 S.F.
MINUS A.D.U. STAIRS	-53 S.F.
MINUS MAIN STAIRS	-92 S.F.
SUB TOTAL	2,001 S.F.
TOTAL G.F.A.	4,496 S.F.
ALLOWABLE F.A.R. 45%	4,507 S.F.
PROPOSED	44.3%
TOTAL NET AREA MAIN HOUSE	1,783 S.F.
GARAGE	712 S.F.
TOTAL NET A.D.U.	740 S.F.
SUB TOTAL	3,235 S.F.
COV'D PATIO	572 S.F.
COV'D PORCH	68 S.F.
OVERALL WIDTH OVERALL DEPTH Updated: 03/09/2018	62'-6 /4" 44' -1 1/2"

Method for Calculating Square Footage - ANSI Z765-2013 except: no separate distinction of 'above-grade or below-grade' areas and each level is measured to the

Square footage calculations for this house were made based on plan dimensions only and may See Sheet "CODES" for additional Zoning required Area Calculations

7525 SE 24th St., 487 Mercer Island, WA 98040 425.266.9100

/\ Issue Issue Date By Description

CLIENT REVISIONS DESIGN REVISIONS

SIDENCE th Ave SE N PIH 374

marketing name: XXXXX mark sys. number:--

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Submittal Date

Sheet Title/Description

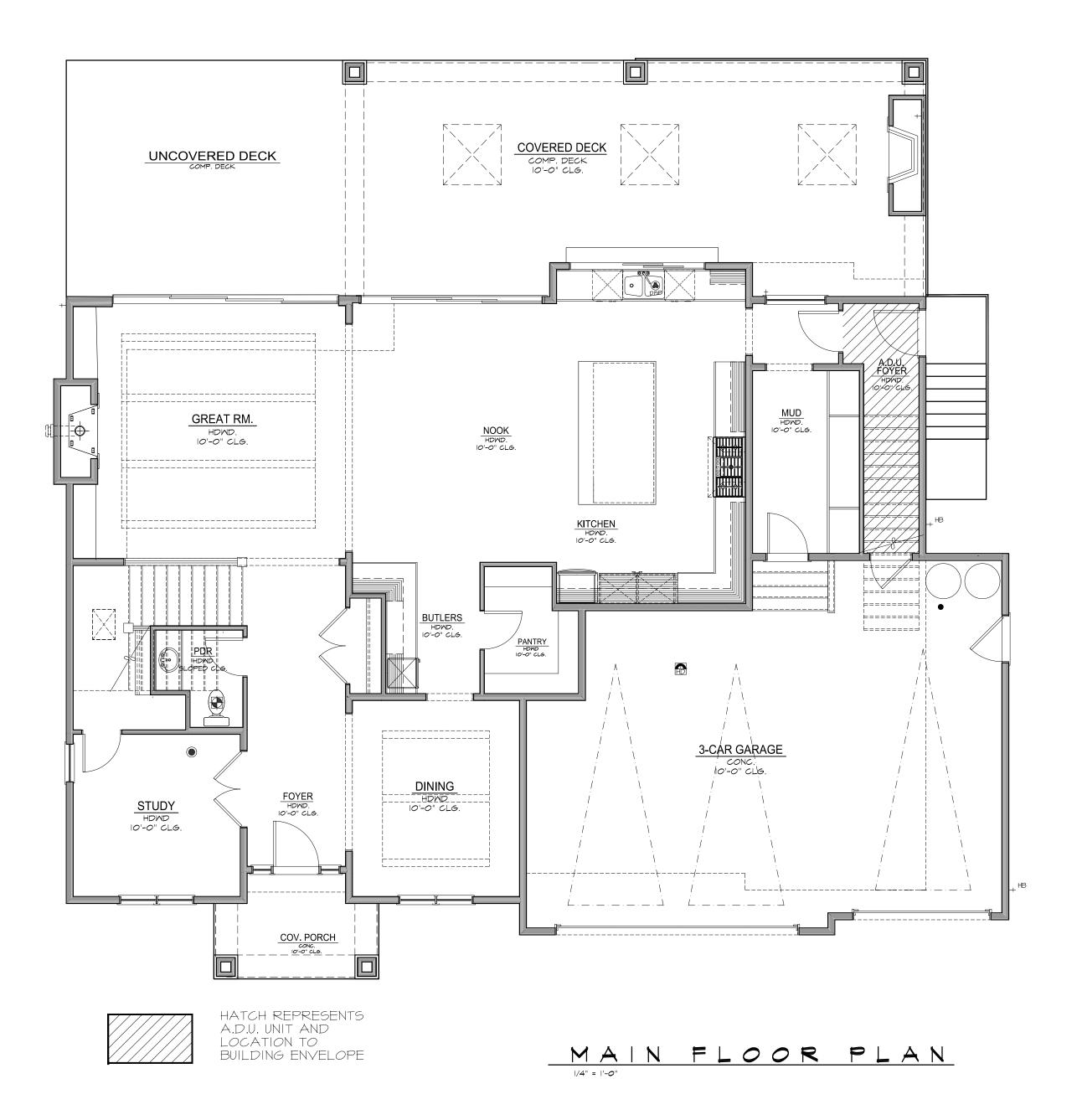
Design Firm

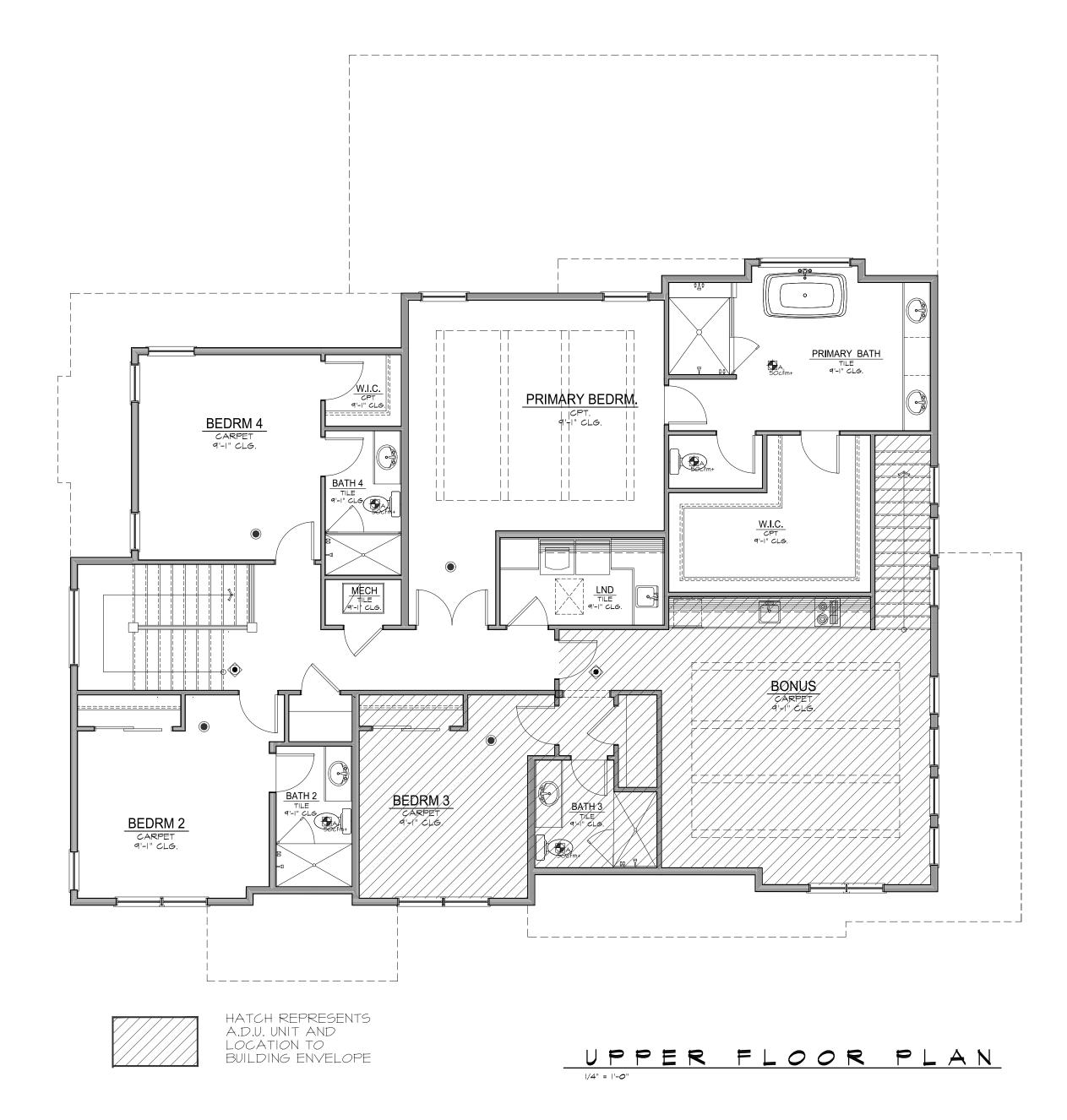
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Drawn by:

Checked by: 1/4"=1'-0" (48)

Primary Scale





F.A.R. CALCULATIONS: SQUARE FOOTAGE SUMMARY

 MAIN FLOOR/ MAIN LIVING
 1,700 S.F.

 MAIN FLOOR A.D.U.
 83 S.F.

 GARAGE
 712 S.F.

 SUB TOTAL
 2,495 S.F.

 UPPER FLOOR/ MAIN LIVING
 1,459 S.F.

 UPPER FLOOR A.D.U.
 687 S.F.

 MINUS A.D.U. STAIRS
 -53 S.F.

 MINUS MAIN STAIRS
 -92 S.F.

 SUB TOTAL
 2,001 S.F.

 TOTAL G.F.A.
 4,496 S.F.

 ALLOWABLE F.A.R. 45%
 4,507 S.F.

 PROPOSED
 44.3%

 TOTAL NET AREA MAIN HOUSE
 1,783 S.F.

 GARAGE
 712 S.F.

 TOTAL NET A.D.U.
 740 S.F.

 SUB TOTAL
 3,235 S.F.

 COV'D PATIO
 572 S.F.

 COV'D PORCH
 68 S.F.

 OVERALL WIDTH
 62'-6 I/4"

 OVERALL DEPTH
 44'-1 1/2"

Updated: 03/09/2018

Method for Calculating Square Footage - ANSI ZT65-2013 except: no separate distinction of 'above-grade or below-grade' areas and each level is measured to the outside of stude not the exterior finished surface.

Square footage calculations for this house were made based on plan dimensions only and may vary from the finished square footage of the house as built.

See Sheet "CODES" for additional Zoning required Area Calculations



\(\lambda \) Issue	Issue Date By
Description	on
<u> </u>	
·	

PIHA RESIDENCE 3745 77th Ave SE MERCER ISLAND, WA

plan name:
marketing name: XXXXX
plan number: -mark sys. number:--

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Sub	mittal	Date	

Sheet Title/Description

Design Firm

RCR

Drawn by:

Checked by: (48)

Primary Scale

A1.1 of: .28

HEIGHT TABLE

ID Length El x

A 24.5 175.2 4,292.4

B 11.5 175.0 2,012.5

C 2 175.0 350.0

D 21 174.9 3,672.9

E 2 175.1 350.2

F 11.5 175.1 2,013.7

H 6.5 179.5 1,166.8

 I
 2
 179.5
 359.0

 J
 12
 179.5
 2,154.0

 K
 40.5
 179.8
 7,281.9

L 32 179.9 5,756.8

N 13.5 179.0 2,416.5

P 11.5 175.0 2,012.5

Q 17 174.7 2,969.9 R 5.5 174.7 960.9

359.0

38,838.5

Average 177.4

G 2 179.5

M 2 179.7

O 2 175.1

TOTALS 219

Uncovered Patio

Existing Removed

Uncovered Deck

Rockery/Retaining Walls

Net Existing Retained

Total New and Existing Total Hardscape

LOT COVERAGE

Lot Area

Allowed

Allowed sf

Eave Area

Existing

Net Existing

Existing Removed

Total New and Existing 3,965

10,016

4,006

3,310 655 3,965

2,178

1700 sf

712 sf

2495 sf

1459 sf

-92 sf

687 sf

-53 sf

2001 sf

4496 sf

4507 sf

44.3 %

180.3

170.8

9.5

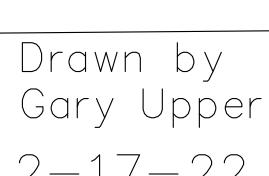
78.4

12.1%

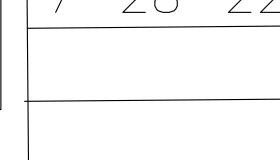
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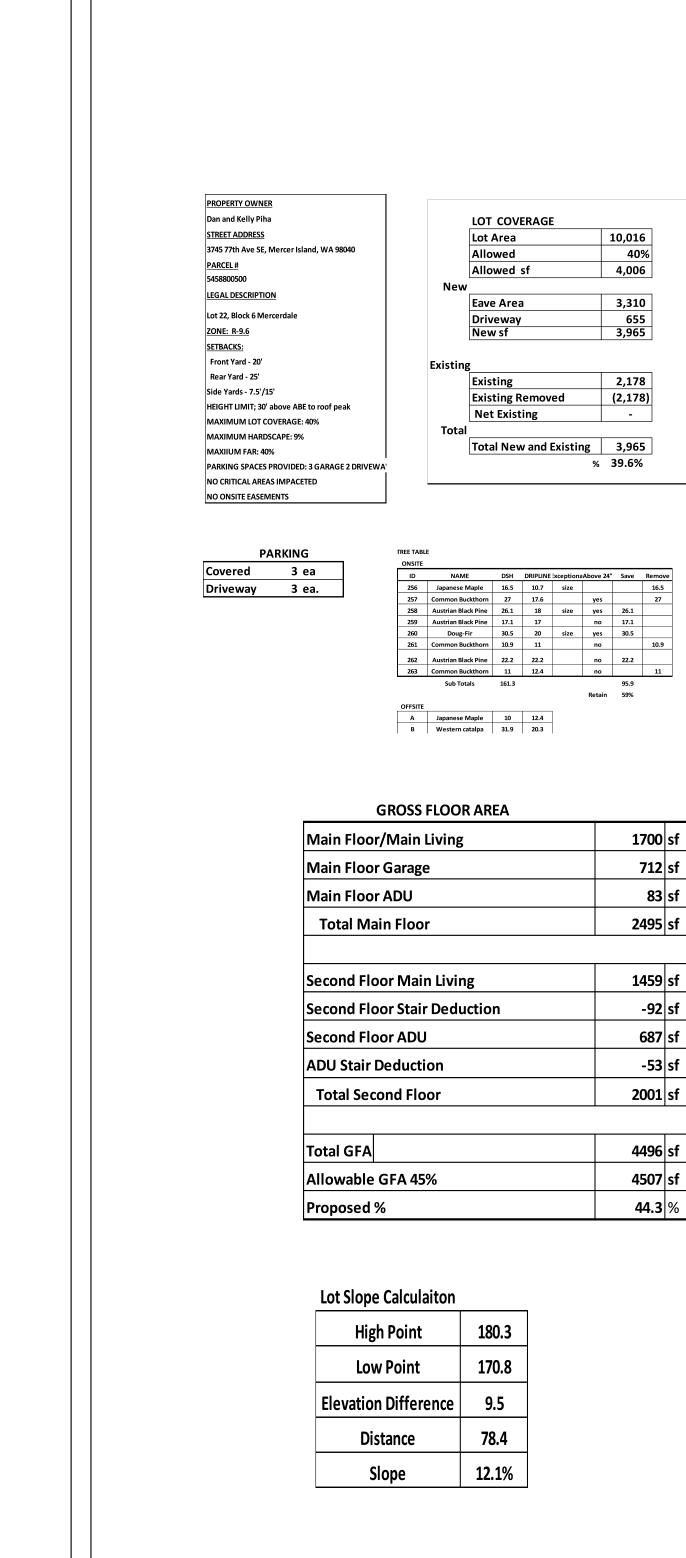
40%





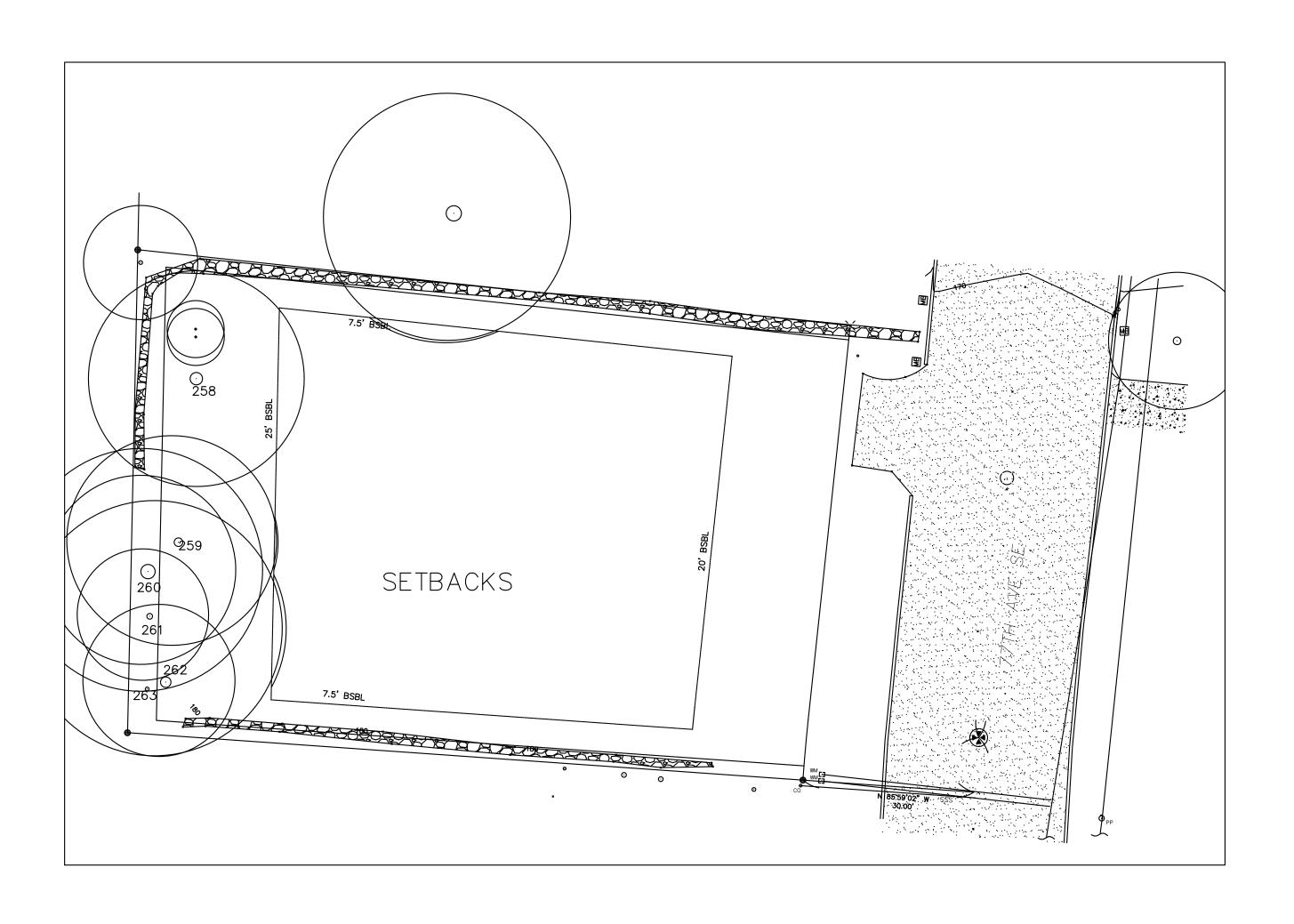
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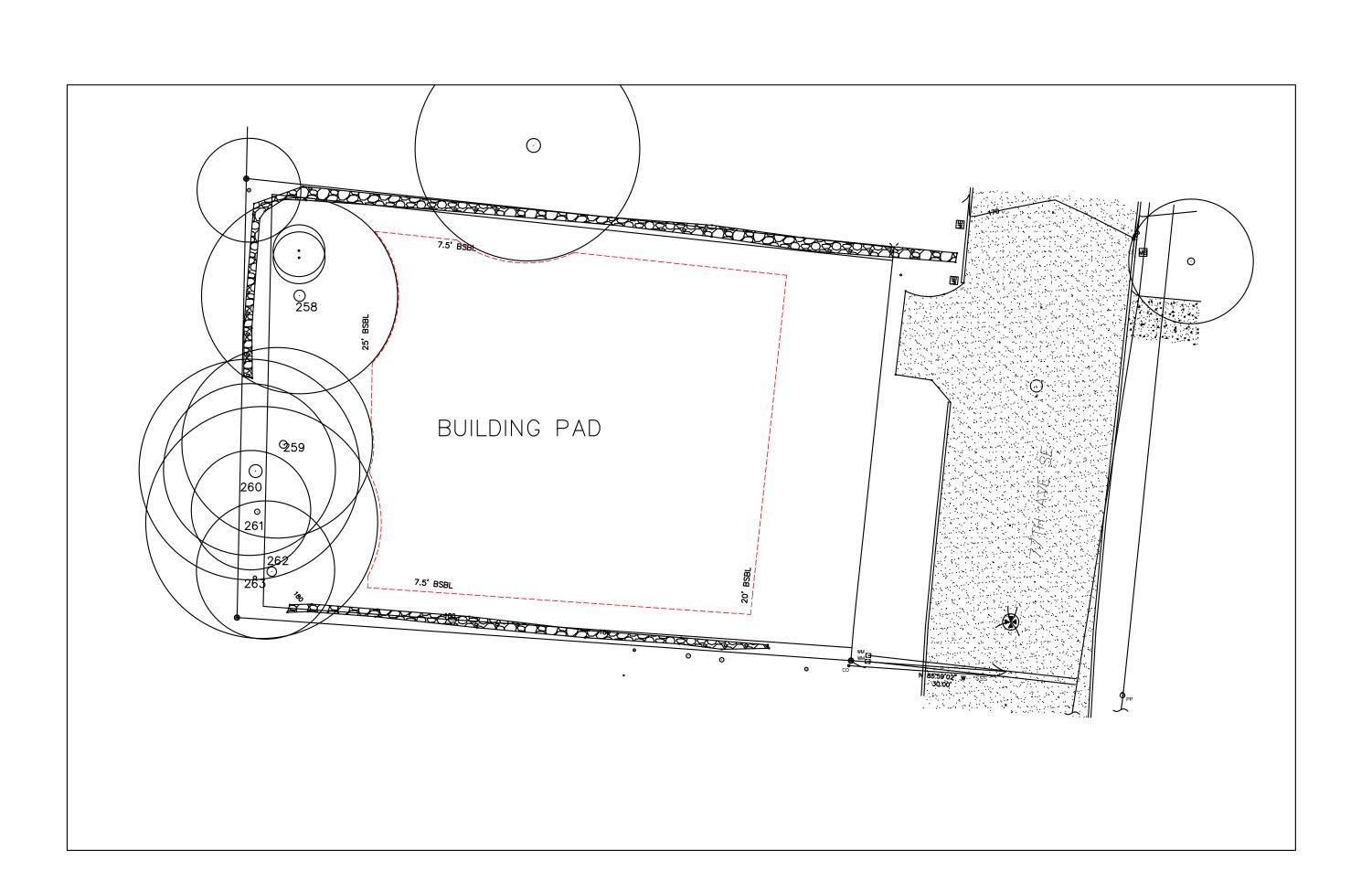


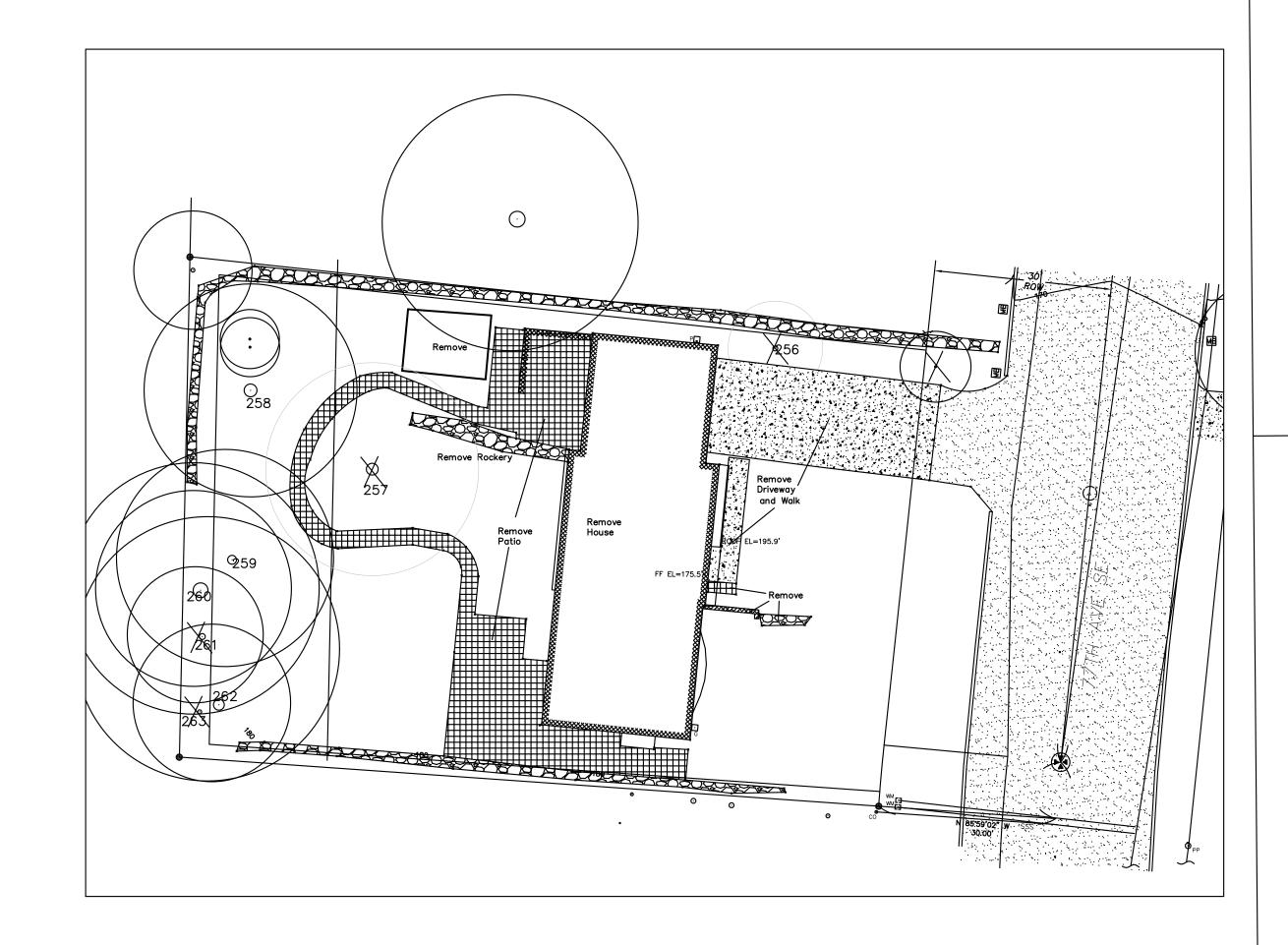


	S
Low Pt.	
59.1' 2.5' Storm Easement	
170.9x 17	SS
7.5' BSBt 7.5' B	
Tree Protection 1 92 1 174.5 DEC	
Utility Easement ADU Entrance	N N N N N N N N N N N N N N N N N N N
5' Storm Easement 173.5 (175.0)	SSMH SSMH
	=173.60' 83'(C.C.) \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
Tree Protection El 180.8 New C	urb 173.8400
Covered Deck DE O 18 PINO DE O	
Original Grade 177.4 Max Ridge: 207.4 MF 180.8	
G 180.8 175.4* 179.6* 175.4* 175.6* 175.6* 175.6* 175.6*	
Open Deck 5 Open D	SS
262 221 PIN 795' BSBL E 10.66' R=295.00'	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
2.5' Storm Easement N 85°59'02" W 1181.5	SS SS
10" EVG 910" EVG 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
A A A A A A A A A A A A A A A A A A A	SS → PP
	176.534
GRAPHIC SCALE	

1 inch = 10 feet





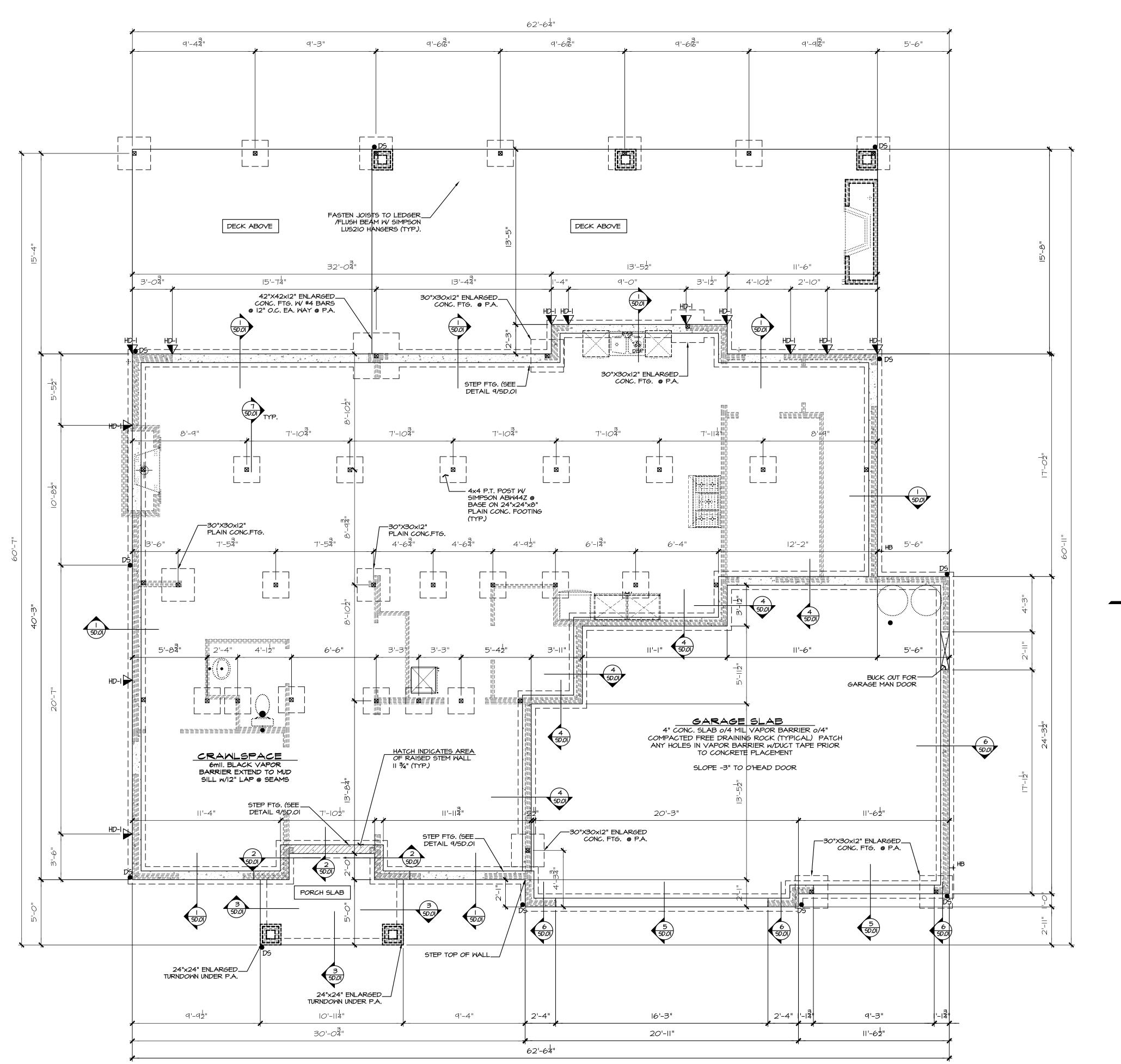


JayMarc Homes, LLC 7525 SE 24th St, #487 Mercer Island, WA 98040 425 281 2706

SITE PLAN
PIHA RESIDENCE
3745 77th Ave SF

Drawn by Gary Upper 2-17-22 6-21-22

A > 1



HOLD-DOWN SCHEDULE

SYMBOL SPECIFICATION

HD-I SIMPSON STHDI4 (RJ)
HOLD-DOWN

SIMPSON CSI6
HD-5 STRAP TIE (I4" END
LENGTH)

SIMPSON MSTC40
STRAP TIE (I2" END
LENGTH)

SIMPSON MSTC66
HD-7 STRAP TIE (24" END
LENGTH)

LEGEND

JL METAL HANGER

* INDICATES POST ABOVE. PROVIDE SOLID
BLOCKING UNDER POST OR JAMB ABOVE.
INDICATES HOLDOWN.

4×10 DROPPED CONT. BEAM (TYP. U.N.O.)

TYP. CRAWLSPACE POSTS:

4x4 P.T. POST W/2x4 CLEATS EA. SIDE +
(2) A35 CLIPS ON EA. SIDE @ BASE OF
POST W/O.I3I"xI-I/2" LONG REDHEAD NAILS
(4'-O" MAX. POST HEIGHT) ON ASPHALT
SHINGLE ON 24"x24"x8" PLAIN CONC. FTG.
(TYP. U.N.O.)

REFER TO S-O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES



FOUNDATION PLAN



425.266.9100

Description

. .

PIHA RESIDENCE 3745 77th Ave SE MERCER ISLAND, WA.

plan name:
marketing name: XXXXX
plan number:
mark sys. number:

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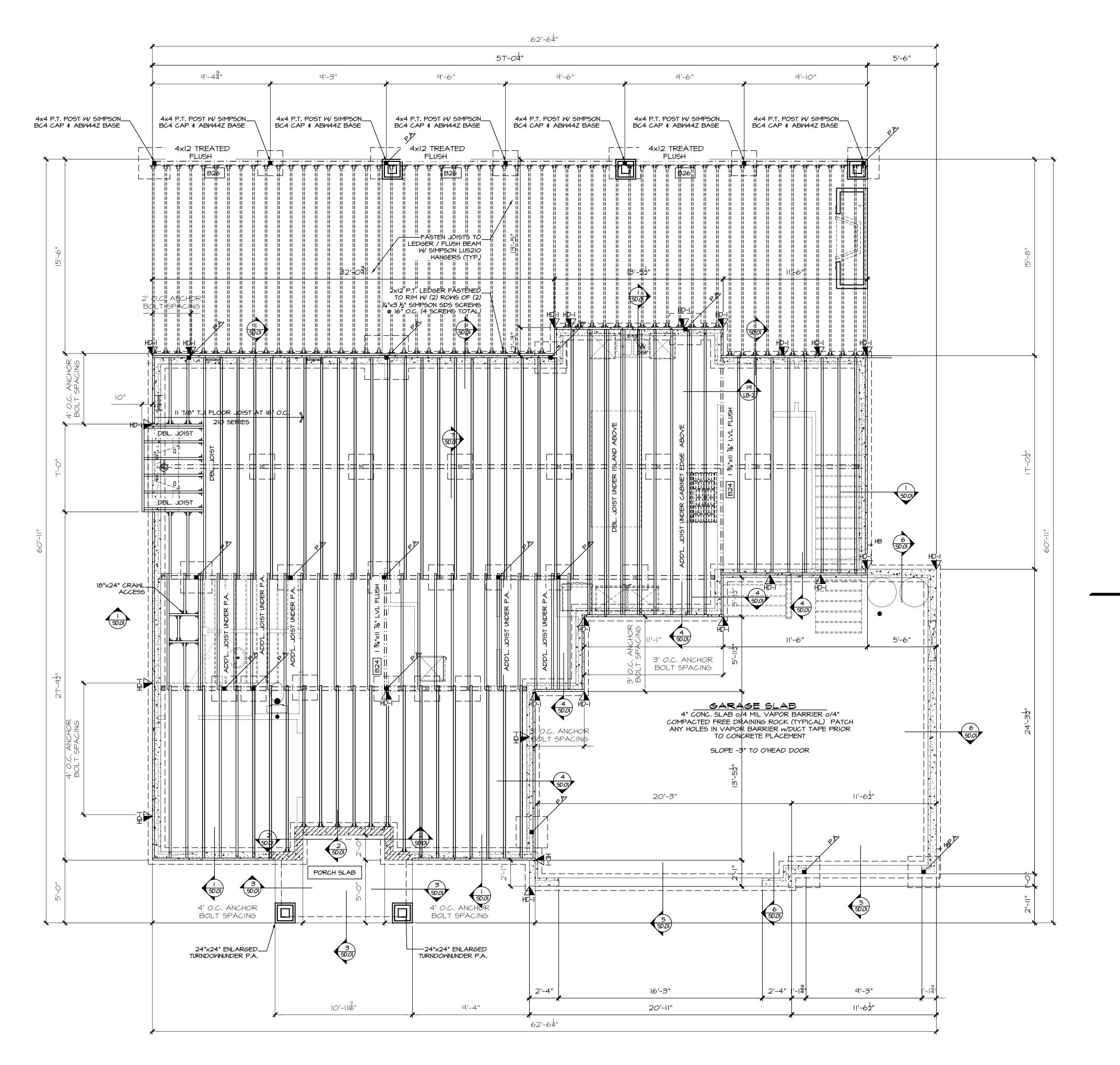
. Design Firm

RCR Drawn by:

SK Checked by:

|/4"=|'-0" (48) |Primary Scale

⊥A3



NOTES:

HOLD-DOWN SCHEDULE SPECIFICATION SIMPSON STHD14 (RJ) HOLD-DOWN SIMPSON CSI6 HD-5 STRAP TIE (14" END LENGTH) SIMPSON MSTC40 HD-6 STRAP TIE (12" END LENGTH) SIMPSON MSTC66 HD-7 STRAP TIE (24" END LENGTH)

LEGEND JL METAL HANGER * INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE. INDICATES HOLDOWN.

_____ INDICATES II-7/8" TJI FLOOR JOISTS 210 SERIES @ 19.2" O.C. (TYP. U.N.O.)

REFER TO S-O FOR TYPICAL STRUCTURAL NOTES \$ SCHEDULES

> 4×10 DROPPED CONT. (TYP. U.N.O.)

TYP. CRAWLSPACE POSTS:

4x4 P.T. POST W/2x4 CLEATS EA. SIDE + (2) A35 CLIPS ON EA. SIDE @ BASE OF POST W/O.131"x1-1/2" LONG REDHEAD NAILS (4'-0" MAX. POST HEIGHT) ON ASPHALT SHINGLE ON 24"x24"x8" PLAIN CONC. FTG. (TYP. U.N.O.)

FOUNDATION VENTILATION 1783 s.f. / 300 = 855.84 s.i. Req'd Ventilation Required: 14" x 7" Foundation Vents 98 s.i. - 25% reduct.,1/4"mesh = 73.5 s.i. Vent Area = Vents Required = 855.84 s.i. / Vent Area = 11.64 s.i. Provide: 12 14" x 7" Vents, Area = 882 s.i. 882.00 s.i. is Greater than 855.84 s.i. Req'd Foundation Vents * FOUNDATION VENTS SHALL NOT INTERFERE WITH DIRECT LOAD PATH OF COLUMNS * INSTALL 6 MIL BLACK POLYETHYLENE VAPOR RETARDER GROUND COVER LOCATE ONE VENT WITHIN 3 FEET OF EACH CORNER OF THE BUILDING, EXCEPT ONE SIDE OF THE BUILDING SHALL BE PERMITTED TO HAVE NO VENTS.

MAIN FLOOR FRAMING LAYOUT



425.266.9100

Description

SIDENCE th Ave SE PIHA ∞

marketing name: XXXXX plan number: -mark sys. number:--

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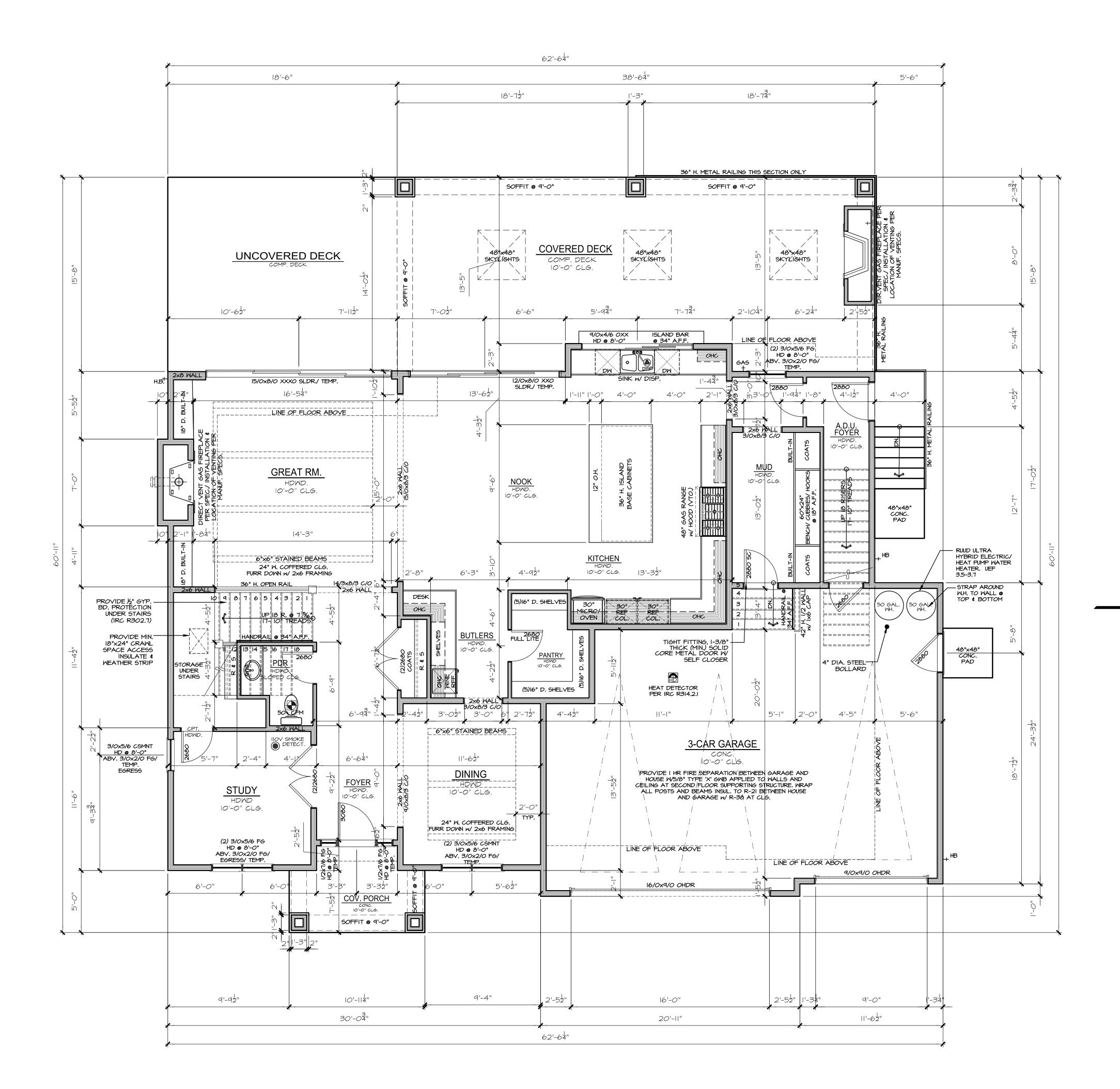
Sheet Title/Description

Design Firm

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Checked by:

1/4"=1'-0" (48) Primary Scale



MAIN FLOOR PLAN NOTES

PLAN SPECIFIC 2018 MSEC. SECTION RO6 R406.2 ADDITIONAL ENERGY EFFICIENCY REQUIREMENTS (MANDATORY). THIS RESIDENTIAL DWELLING SHALL COMPLY W/SUFFICIENT OPTIONS FROM TABLE R406.2 TO ACHIEVE THE FOLLOWING MIN. NUMBER OF CREDITS:

6 FOR a 1,501sf to 4,999sf HOME. CREDITS PROVIDED IN THIS HOME AS FOLLOWS:

EFFICIENT BUILDING ENVELOPE OPT. 1.3: O.5 CREDITS PRESCRIPTIVE COMPLIANCE IS BASED ON TABLE R402.I.I with FOLLOWING MODIFICATIONS:

VERTICAL FENESTRATION U = 0.28 WINDOWS FLOORS TO BE R-38 and SLAB ON GRADE TO BE R-10 PERIMETER and

UNDER ENTIRE SLAB BELOW GRADE. AIRLEAKAGE \$ EFFICIENT VENTILATION OPT 2.1: 0.5 CREDITS

REDUCE THE TESTED AIR LEAKAGE TO 3.0 AIR CHANGES PER HOUR MAXIMUM @ 50 PASCALS AND ALL WHOLE HOUSE VENTILATION REQUIREMENTS AS DETERMINED BY SECTION MI507.3 OF THE I.R.C. OR SECTION 404.8 OF THE I.M.C SHALL BE MET WITH A HIGH EFFICIENCY FAN(S) (MAXIMUM) OF 0.35 WATTS/ CFM), NOT INTERLOCKED WITH THE FURNACE FAN (IF PRESENT). VENTILATION SYSTEMS USING A FURNACE INCLUDING AN EMC MOTOR ARE ALLOWED, PROVIDED THAT THEY ARE CONTROLLED TO OPERATE AT LOW SPEED IN THE VENTILATION ONLY

HIGH EFFICIENCY HVAC EQUIPMENT OPT. 3.5a: I.5 CREDITS

AIR-SOURCE, CENTRALLY DUCTED HEAT PUMP WITH MINIMUM HSPF OF II.O. TO QUALIFY TO CLAIM THIS CREDIT, THE BUILDING PERMIT DRAWINGS SHALL SPECIFY THE OPTION BEING SELECTED AND SHALL SPECIFY THE HEATING EQUIPMENT EFFICIENCY. EXTERIOR LOCATED EQUIPMENT SHOULD ALSO BE REPRESENTED ON SITE PLAN.

HIGH EFFICENCY HVAC DISTRIBUTION OPT. 4.2: I.O CREDITS HVAC EQUIPMENT AND ASSOCIATED DUCT SYSTEMS(S) SHALL COMPLY WITH THE REQUIREMENTS OF SECT R403.3.7. LOCATING SYSTEM COMPONENTS IN CONDITIONED CRAWL SPACES 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.

EFFICIENT WATER HEATING 5.5: 2.0 CREDITS

WATER HEATING SYSTEMS SHALL INCLUDE ONE OF THE FOLLOWING: ELECTRIC HEAT PUMP WATER HEATER MEETING THE STANDARDS FOR TIER III OF NEEA'S ADVANCED WATER HEATING SPECIFICATION. TO QUALIFY TO CLAIM THIS CREDIT, THE BUILDING PERMIT DRAWINGS SHALL SPECIFY THE OPTION BEING SELECTED AND SHALL SPECIFY THE WATER HEATER EQUIPMENT TYPE AND THE MINIMUM EQUIPMENT

WHOLE HOUSE VENTILATION

PROVIDE WHOLE HOUSE VENTILATION per 2018 IRC. R403.8 and IMC MI507 USING WHOLE HOUSE VENTILATION SYSTEM USING CENTRAL EXHAUST FAN. CONTINUOUSLY OPERATING - WALL SWITCH LABELED "WHOLE HOUSE FAN. LEAVE ON UNLESS OUTDOOR AIR QUALITY IS POOR".

SYMBOL LOCATION MIN. FAN REQUIREMENTS (ALL FANS VENT TO OUTDIDE)

BATH & Min. 50cfm. INTERMITTENT at .025mg per TABLE MI507.4

KITCHEN Min. 100cfm. INTERMITTENT at .025mg per TBL. MI507.4 RANGE HOOD or DOWN DRAFT EXHAUST FAN RATED at min. 100cfm. at

JONG MAY BE USED FOR EXHAUST FAN REQMT. EXHAUST HOODS IN XCESS OF 400cfm. SHALL BE INTERLOCKED AND PROVIDE MAKE UP AIR per w/MI503.4

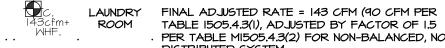


TABLE 1505.4.3(1). ADJUSTED BY FACTOR OF 1.5 ROOM PER TABLE MI505.4.3(2) FOR NON-BALANCED, NOT DISTRIBUTED SYSTEM.

PER IRC MI505.4.I.I, WHOLE HOUSE VENTILATION FANS MUST BE RATED FOR SOUND AT A MAXIMUM OF I.O 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 MI505.4.I.2 AND MI505.4.I.3.



CARBON MONOXIDE ALARMS/ DETECTORS ARE REQUIRED TO BE INTERCONNECTED PER IRC 315.5

MAIN FLOOR PLAN

F.A.R. CALCULATIONS:

SQUARE FOOTAGE SUMMARY

MAIN FLOOR/ MAIN LIVING MAIN FLOOR A.D.U. GARAGE SUB TOTAL	1,700 S.F. 83 S.F. 712 S.F. 2,495 S.F.
UPPER FLOOR/ MAIN LIVING UPPER FLOOR A.D.U. MINUS A.D.U. STAIRS MINUS MAIN STAIRS	1,459 S.F. 687 S.F. -53 S.F. -92 S.F.
SUB TOTAL	2,001 S.F.
TOTAL G.F.A. ALLOWABLE F.A.R. 45% PROPOSED	4,496 S.F. 4,507 S.F. 44.3%
TOTAL NET AREA MAIN HOUSE GARAGE TOTAL NET A.D.U.	1,783 S.F. 712 S.F. 740 S.F.
SUB TOTAL	3,235 S.F.
COV'D PATIO COV'D PORCH	572 S.F. 68 S.F.
OVERALL WIDTH OVERALL DEPTH Updated: 03/09/2018	62'-6 1/4" 44' -1 1/2"

Method for Calculating Square Footage - ANSI Z765-2013 except: no separate distinction of 'above-grade or below-grade' areas <u>and</u> each level is measured to the outside of studs not the exterior finished surface.

Square footage calculations for this house were made based on plan dimensions only and may vary from the finished square footage of the house as built.

See Sheet "CODES" for additional Zoning required Area Calculations



Mercer Island, WA 98040

425.266.9100

/\ Issue Issue Date By Description

S Ш

plan name: marketing name: XXXXX plan number: --mark sys. number:--

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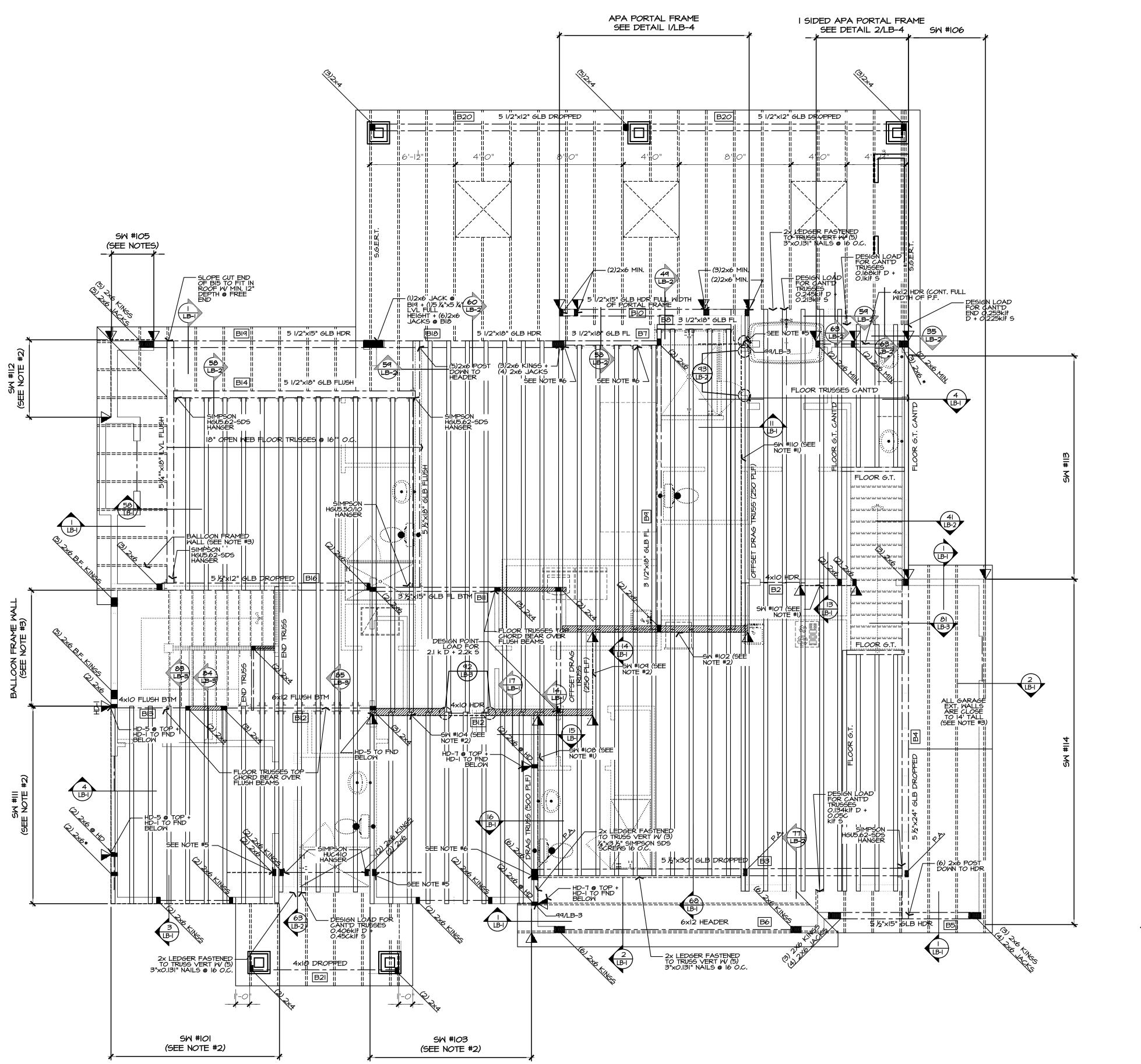
Sheet Title/Description

Design Firm

Drawn by:

Checked by:

1/4"=1'-0" (48) Primary Scale



NOTE #1 PROVIDE 76" OSB OR PLYWOOD FASTENED PER TYPICAL EXTERIOR WALL SHEATHING SPEC. (SEE NOTES ON S-0.0

NOTE #2 PROVIDE 1/6" OSB OR PLYWOOD FASTENED 3" O.C. EDGE NAILING SPEC. (SEE NOTES ON S-O.O

NOTE #3 ALL WALLS 12' OR TALLER SHALL BE HF #2 GRADE OR BETTER.

NOTE #5
PROVIDE SIMPSON CSI6 STRAP FROM DBL TOP
PLATE (13" END LENGTH) TO BOTTOM OF FULL
HEIGHT TRUSS BLOCKING BETWEEN FLOOR TRUSSES
(3'-O" MIN.) FASTEN FLOOR SHTG TO BLOCKING W 2
½"x0.131" NAILS @ 6" O.C.

NOTE #6 PROVIDE SIMPSON CSI6 STRAP FROM DBL TOP PLATE TO BOTTOM OF FLUSH BEAM (13" LENGTH @ EACH END.

UPPER FLOOR / MAIN FLOOR ROOF FRAMING LAYOUT



\(\lambda \) Issue Issue Date By Description

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PIHA \mathcal{C}

marketing name: XXXXX plan number: -mark sys. number:--

Conditions not specifically represented graphically or in writing or which conflict with the 2015 International Residential Code (IRC.) and/or those of the local municipality then the current standards and requirements of each respectively shall govern.

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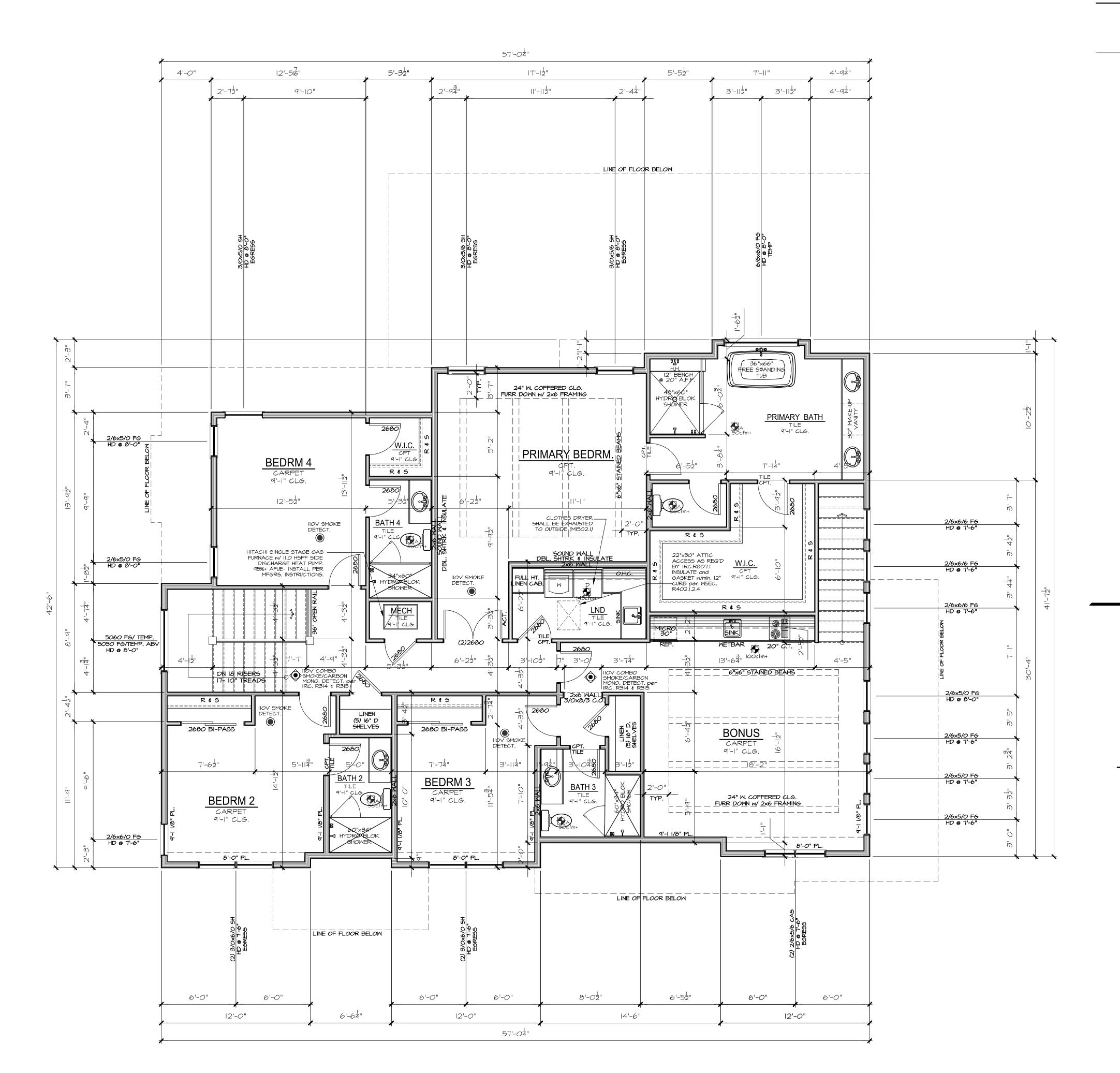
Sheet Title/Description

Design Firm

Drawn by:

Checked by:

1/4"=1'-0" (48) Primary Scale



UPPER FLOOR PLAN NOTES

PLAN SPECIFIC 2018 MSEC. SECTION RO6

R406.2 ADDITIONAL ENERGY EFFICIENCY REQUIREMENTS (MANDATORY).

THIS RESIDENTIAL DWELLING SHALL COMPLY W/SUFFICIENT OPTIONS FROM TABLE R406.2 TO ACHIEVE THE FOLLOWING MIN. NUMBER OF CREDITS:

6 FOR a 1,501sf to 4,999sf HOME.

CREDITS PROVIDED IN THIS HOME AS FOLLOWS:

EFFICIENT BUILDING ENVELOPE OPT. 1.3: O.5 CREDITS

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

VERTICAL FENESTRATION U = 0.28 WINDOWS

FLOORS TO BE R-38 and SLAB ON GRADE TO BE R-10 PERIMETER and UNDER ENTIRE SLAB BELOW GRADE.

AIRLEAKAGE \$ EFFICIENT VENTILATION OPT 2.1: 0.5 CREDITS

REDUCE THE TESTED AIR LEAKAGE TO 3.0 AIR CHANGES PER HOUR MAXIMUM © 50 PASCALS AND ALL WHOLE HOUSE VENTILATION REQUIREMENTS AS DETERMINED BY SECTION MISO7.3 OF THE I.R.C. OR SECTION 404.8 OF THE I.M.C SHALL BE MET WITH A HIGH EFFICIENCY FAN(S) (MAXIMUM) OF 0.35 WATTS/ CFM), NOT INTERLOCKED WITH THE FURNACE FAN (IF PRESENT). VENTILATION SYSTEMS USING A FURNACE INCLUDING AN EMC MOTOR ARE ALLOWED, PROVIDED THAT THEY ARE CONTROLLED TO OPERATE AT LOW SPEED IN THE VENTILATION ONLY MODE.

HIGH EFFICIENCY HVAC EQUIPMENT OPT. 3.5a: 1.5 CREDITS

AIR-SOURCE, CENTRALLY DUCTED HEAT PUMP WITH MINIMUM HSPF OF II.O. TO QUALIFY TO CLAIM THIS CREDIT, THE BUILDING PERMIT DRAWINGS SHALL SPECIFY THE OPTION BEING SELECTED AND SHALL SPECIFY THE HEATING EQUIPMENT EFFICIENCY. EXTERIOR LOCATED EQUIPMENT SHOULD ALSO BE REPRESENTED ON SITE PLAN.

HIGH EFFICENCY HVAC DISTRIBUTION OPT. 4.2: I.O CREDITS

HVAC EQUIPMENT AND ASSOCIATED DUCT SYSTEMS(S) SHALL COMPLY WITH THE REQUIREMENTS OF SECT R403.3.7. LOCATING SYSTEM COMPONENTS IN CONDITIONED CRAWL SPACES 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.

EFFICIENT WATER HEATING 5.5: 2.0 CREDITS

WATER HEATING SYSTEMS SHALL INCLUDE ONE OF THE FOLLOWING: ELECTRIC HEAT PUMP WATER HEATER MEETING THE STANDARDS FOR TIER III OF NEEA'S ADVANCED WATER HEATING SPECIFICATION.

TO QUALIFY TO CLAIM THIS CREDIT, THE BUILDING PERMIT DRAWINGS SHALL SPECIFY THE OPTION BEING SELECTED AND SHALL SPECIFY THE WATER HEATER EQUIPMENT TYPE AND THE MINIMUM EQUIPMENT EFFICIENCY.

WHOLE HOUSE VENTILATION

PROVIDE WHOLE HOUSE VENTILATION per 2018 IRC. R403.8 and IMC MI507 USING WHOLE HOUSE VENTILATION SYSTEM USING CENTRAL EXHAUST FAN. CONTINUOUSLY OPERATING - WALL SWITCH LABELED "WHOLE HOUSE FAN. LEAVE ON UNLESS OUTDOOR AIR QUALITY IS POOR".

SYMBOL LOCATION MIN. FAN REQUIREMENTS (ALL FANS VENT TO OUTDIDE)

BATH & Min. 50cfm. INTERMITTENT at .025mg per TABLE MI507.4

KITCHEN Min. 100cfm. INTERMITTENT at .025mg per TBL. MI507.4

RANGE HOOD or DOWN DRAFT EXHAUST FAN RATED at min. 100cfm. at 0.10mg May Be used for exhaust fan reamt. Exhaust hoods in excess of 400cfm. Shall be interlocked and provide Make up air

LAUNDRY FINAL ADJUSTED RATE = 143 CFM (90 CFM PER 143 cfm | ROOM TABLE 1505.4.3(1), ADJUSTED BY FACTOR OF 1.5
PER TABLE MI505.4.3(2) FOR NON-BALANCED, NO

TABLE 1505.4.3(1), ADJUSTED BY FACTOR OF 1.5

PER TABLE MI505.4.3(2) FOR NON-BALANCED, NOT DISTRIBUTED SYSTEM.



PER IRC MI505.4.I.I, WHOLE HOUSE VENTILATION FANS MUST BE RATED FOR SOUND AT A MAXIMUM OF I.O SONE. THIS SOUND RATING SHALL BE AT A MINIMUM OF O.I IN M.C. STATIC PRESSURE IN ACCORDANCE WITH HVI PROCEDURES SPECIFIED IN IRC MI505.4.I.2 AND MI505.4.I.3.

CARBON MONOXIDE ALARMS/ DETECTORS ARE REQUIRED TO BE INTERCONNECTED PER IRC 315.5

UPPER FLOOR PLAN

SQUARE FOOTAGE SUMMARY

MAIN FLOOR/ MAIN LIVING MAIN FLOOR A.D.U. GARAGE	1,700 S.F. 83 S.F. 712 S.F.
SUB TOTAL	2,495 S.F.
UPPER FLOOR/ MAIN LIVING UPPER FLOOR A.D.U. MINUS A.D.U. STAIRS MINUS MAIN STAIRS	1,459 S.F. 687 S.F. -53 S.F. -92 S.F.
SUB TOTAL	2,001 S.F.
TOTAL G.F.A. ALLOWABLE F.A.R. 45% PROPOSED	4,496 S.F. 4,507 S.F. 44.3%
TOTAL NET AREA MAIN HOUSE GARAGE TOTAL NET A.D.U.	1,783 S.F. 712 S.F. 740 S.F.
SUB TOTAL	3,235 S.F.
COV'D PATIO COV'D PORCH	572 S.F. 68 S.F.
OVERALL WIDTH OVERALL DEPTH Updated: 03/09/2018	62'-6 1/4" 44' -1 1/2"

Method for Calculating Square Footage - ANSI Z765-2013 except: no separate distinction of 'above-grade or below-grade' areas and each level is measured to the outside of studs not the exterior finished surface.

Square footage calculations for this house were made based on plan dimensions only and may vary from the finished square footage of the house as built.

See Sheet "CODES" for additional Zoning required Area Calculations

JAYMARC H O M E S

> 7525 SE 24th St., 487 Mercer Island, WA 98040 425.266.9100

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plan name:
marketing name: XXXXX
plan number: -mark sys. number:--

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Sheet Title/Description

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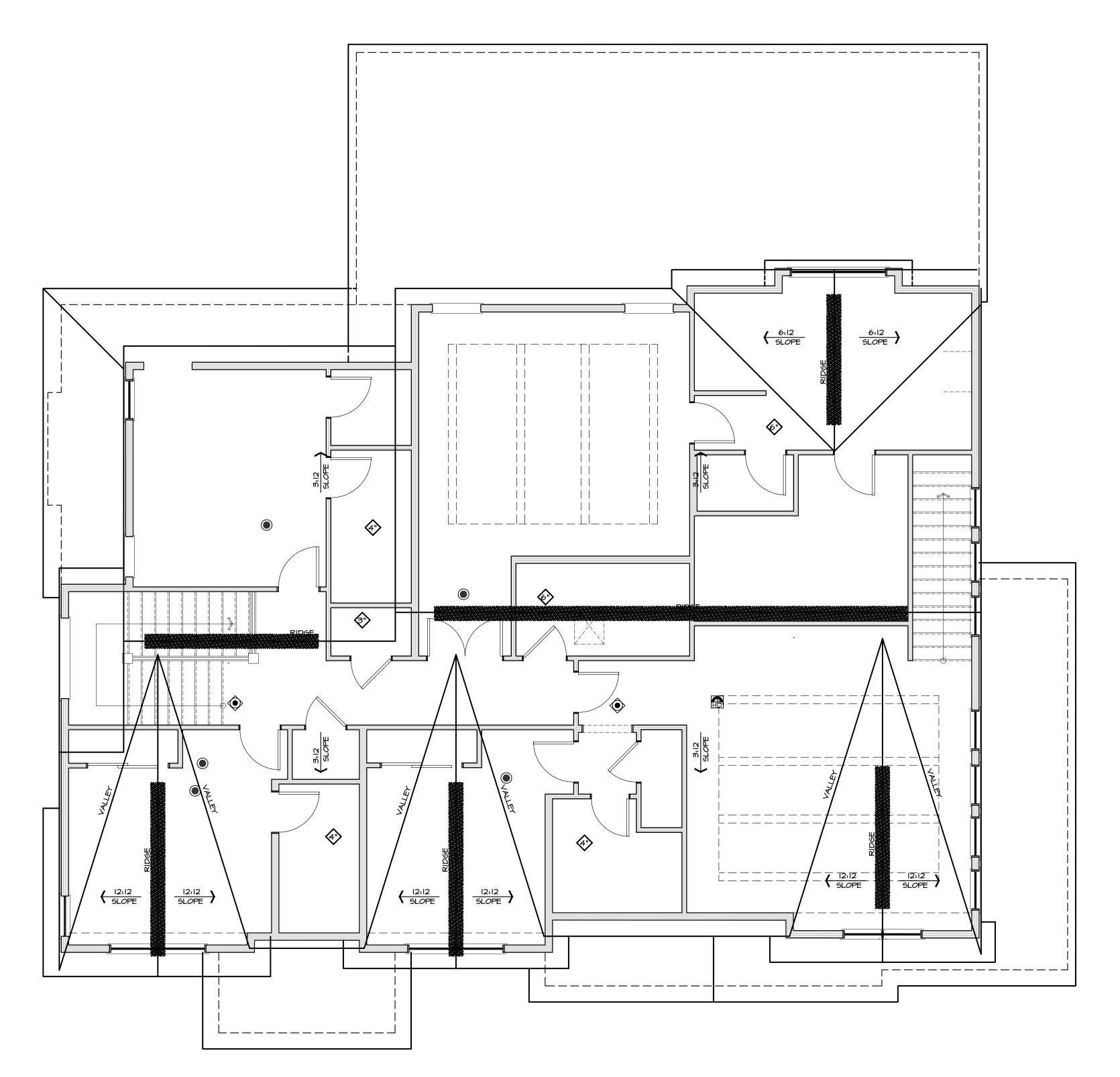
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ROOF PLAN

Standard Truss / Scissor Truss Roof F	raming Assembly:	ZONE 1
Roof Area :	2446 s.f.	
Ventilation Required:	2446 s.f. x 144 s.i. / s.f. / 300 =	1174.1 s.i. Req'd
Provide between 40% & 50% of the total the highest point of the space. Remainder	required ventilation no more than 3 ft below the required ventalled at eave vents.	ne ridge or
Ridge Ventilation: 50% of ventilation		587.04
Continuous Ridge Vent =		18.00 s.i. per l.f.
Upper Ventilation MIN. Req'd =	587.04 s.i. x 0.4 / s.i. per linear foot =	27 l.f.
Upper Ventilation MAX. Req'd =	587.04 s.i. x 0.5 / s.i. per linear foot =	32 l.f.
Provide:	30 I.f. ridge vent. Ventilation =	540.00 s.i.
Ventilation area remainder for AF50 vent	s = 47.04 s.i.	
Upper Roof Ventilation: as needed to ach	nive 50% of ventilation	
AF50 Roof Jack (10" x 7") =		50.00 s.i. each.
Upper Ventilation Req'd TO GET 50%=	47.04 s.i. / s.i. of each vent =	1 vent
Provide:	0 -10"x7" roof jacks. Ventilation =	0.00 s.i.
Eave Ventilation:		
Birdblocking: (3)2" dia holes per bay =	4.71 s.i. / I.f 25% reduction =	3.53 s.i. / l.f.
Eave Ventilation Req'd =	587.04 s.i. / s.i. per l.f. =	47.04 l.f.
Provide Minimum:	214 l.f. birdblocking. Ventilation =	755.96 s.i.
Minimum Ventilation Provided =	1295.96 s.i. IS GREATER THAN:	1174.1 s.i. Req'd





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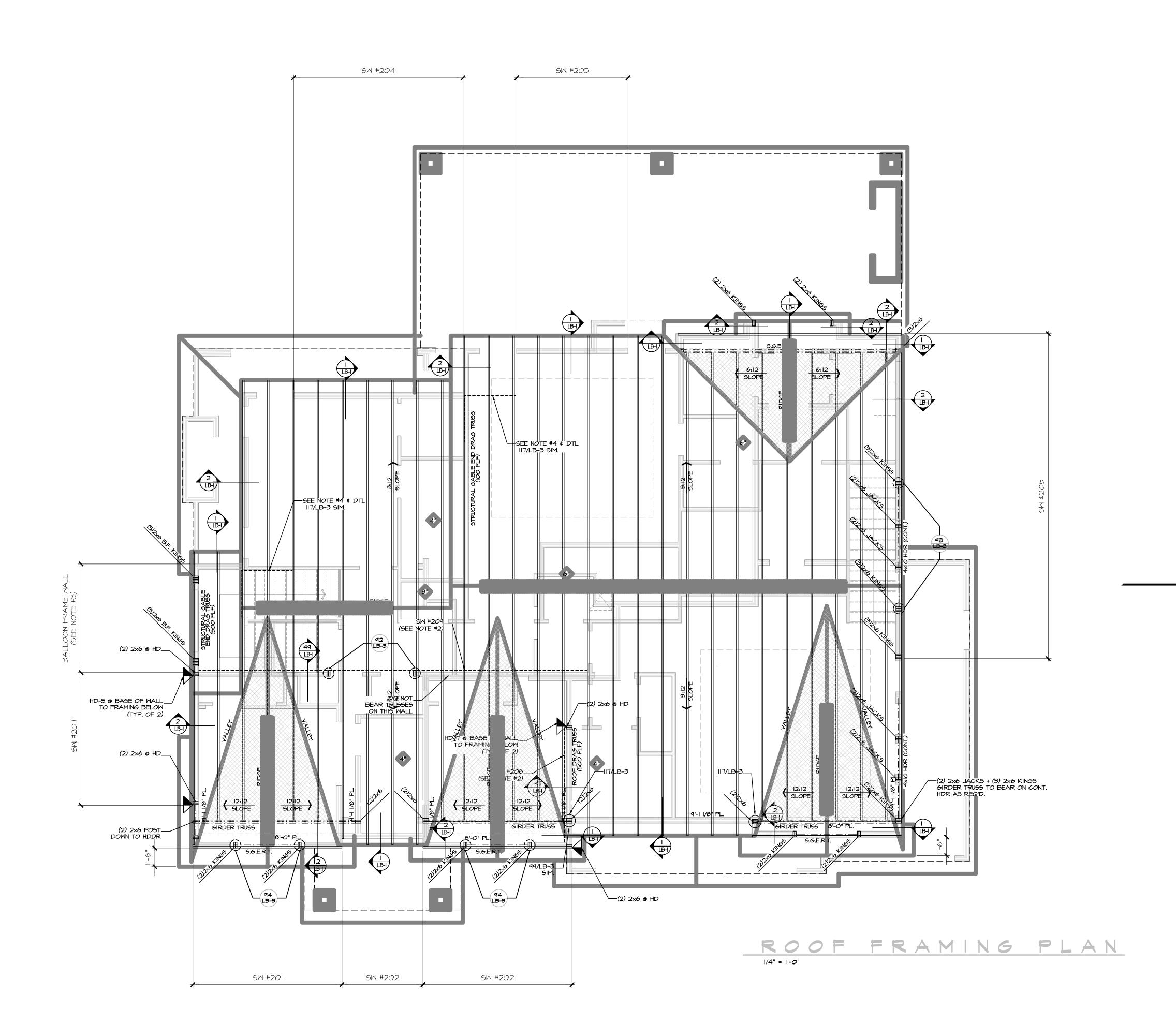
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LEGEND

• WIIIIII INTERIOR BEARING WALL

• = : = : = BEAM / HEADER

• ______ ROOF TRUSS @ 24" O.C. (U.N.O.)

· == GIRDER TRUSS

• INTERIOR SHEAR WALL PANEL OR EXTERIOR SHEAR WALL W/ 3" o.c. EDGE NAILING

• INDICATES OVER FRAMED TRUSS AREA

REFER TO S-O FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

4x10 HDR @ ALL EXT. BI WINDOWS/DOORS (TYP. U.N.O.)

NOTE #I:

PROVIDE 급" OSB/PLYWOOD SHTG. + FASTEN PER TYP. WALL SHTG. SPECS. (SEE NOTES)

PROVIDE CONT. EXT. SHEATHING BEHIND LOW TRUSSES DOWN TO SECOND FLOOR SOLE PLATE (TYP. @ LOW ROOF)

NOTE #2: PROVIDE 3" O.C. EDGE NAILING (SEE NOTES)

NOTE #3: ALL WALLS 12' OR TALLER SHALL BE 2x6 HF #2 GRADE OR BETTER

NOTE #3:
PROVIDE SIMPSON CSI6 STRAP FROM
DBL TOP PLATE (I3" END LENGTH) TO
UNDERSIDE OF 2× BLOCKING
BETWEEN TRUSS BTM. CHORDS FOR
(3) TRUSS BAYS (6'-O" MIN.). PROVIDE
2× BLOCKING @ TOP CHORD OF
TRUSSES + SHTG. BETWEEN TOP &
BOT. CHORD BLOCKING FASTENED W/
2½" × O.I3I" NAILS @ 6" O.C. @ SHTG.
EDGES. FASTEN ROOF SHTG. TO
BLOCKING W/ 2½" × O.I3I" NAILS @ 6"



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> . 06.06.22 CLIENT REVISIONS

07.28.22

DESIGN REVISIONS

RESIDENCE 77th Ave SE ISLAND, WA.

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. 07.28.22 DESIGN REVISIONS

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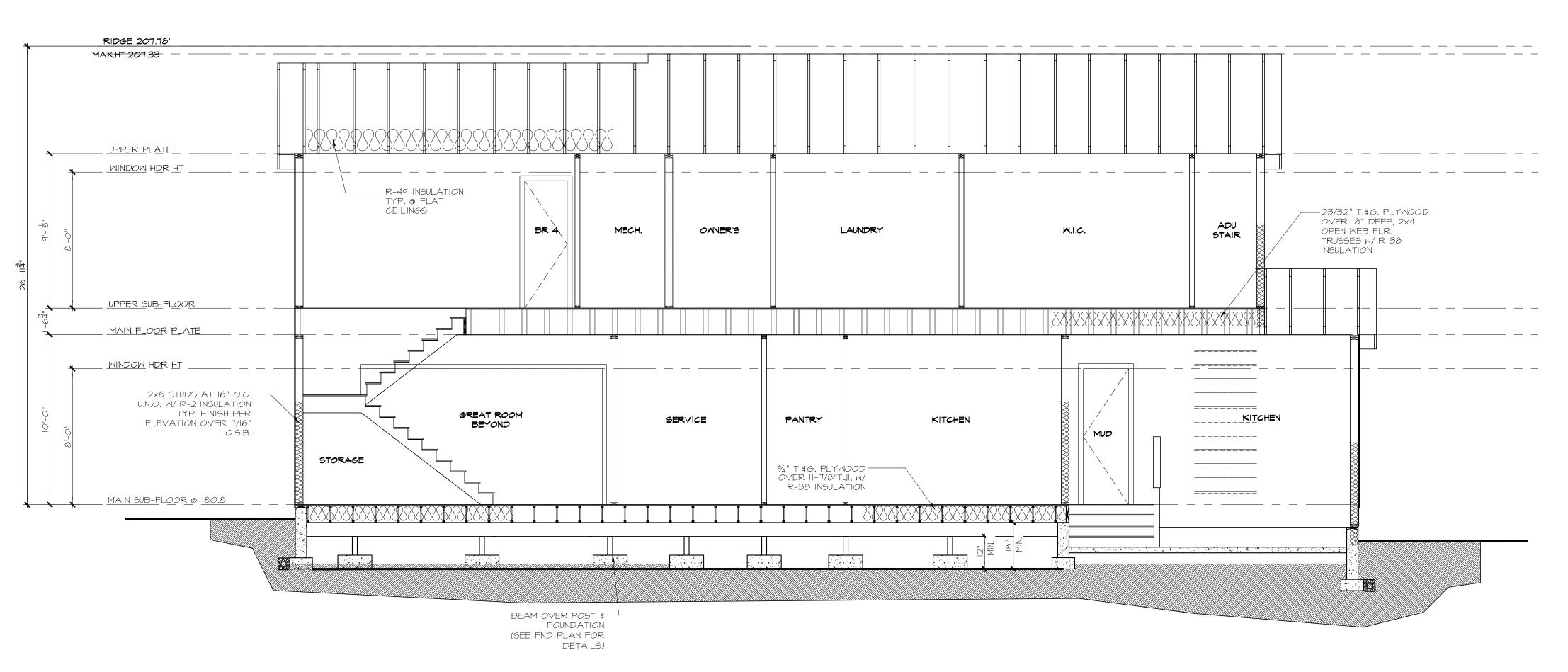
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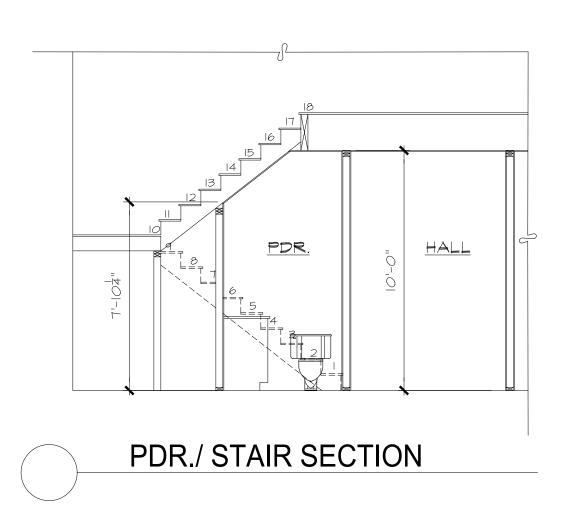
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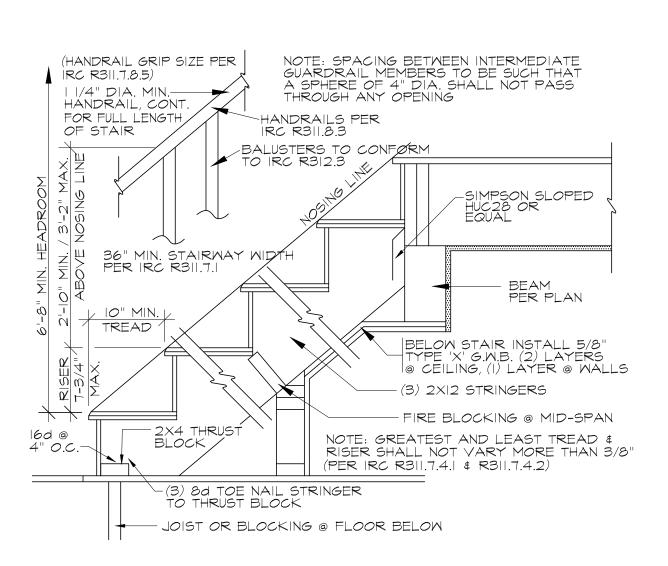
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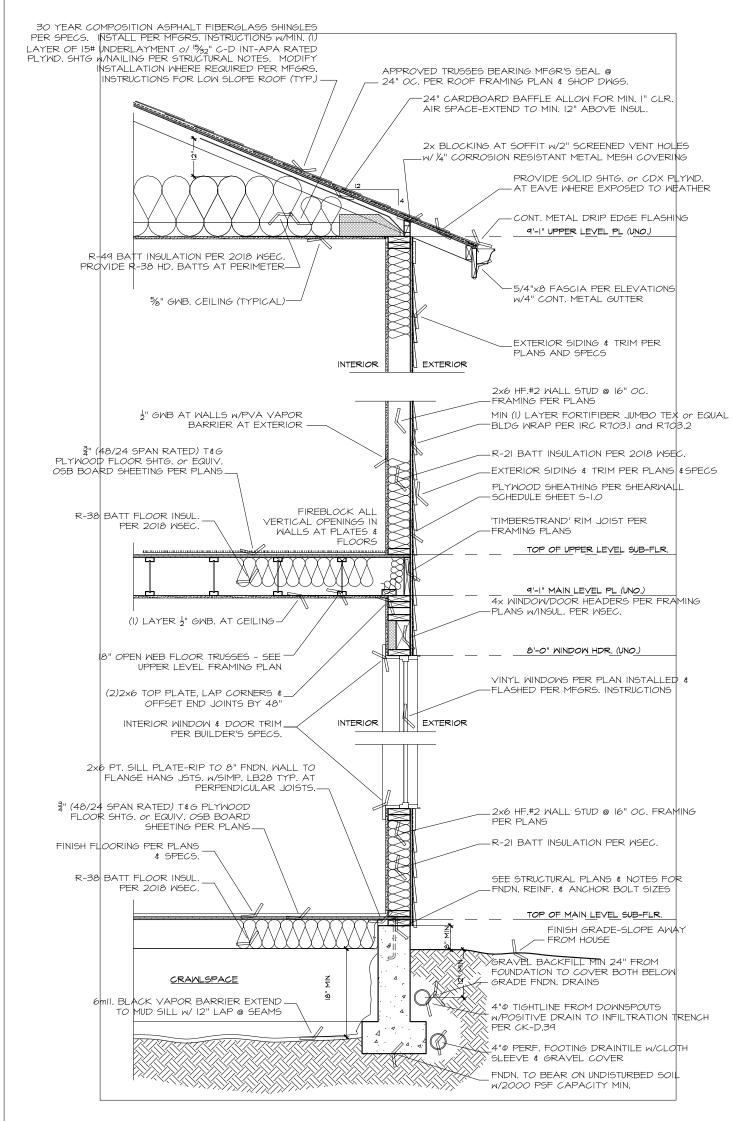


BUILDING SECTION 14" = 1'-0"





TYP. STAIR SECTION



TYPICAL EXTERIOR WALL SECTION



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DENCE Ave SE ID, WA.

PIHA RE 3745 771 MERCER ISL

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BASEMENT SLAB

4" CONC. SLAB ON 6 MIL VAPOR BARRIER ON 4" MIN. GRANULAR FILL ON 95% COMPACTED FILL/VIRGIN SOIL

GARAGE SLAB

4" CONC. SLAB ON 6 MIL VAPOR BARRIER ON 4" MIN. GRANULAR FILL ON 95% COMPACTED FILL/VIRGIN SOIL

PORCH SLAB

4" CONC. SLAB ON GRADE ON 6 MIL VAPOR BARRIER ON 4" MIN. GRANULAR FILL ON 95% COMPACTED FILL/VIRGIN SOIL

GENERAL STRUCTURAL NOTES

FOUNDATION

- DESIGN IS BASED ON 2018 INTERNATIONAL RESIDENTIAL CODE **\$ 2018 INTERNATIONAL BUILDING CODE** DESIGN LOADS:
- SOIL 2,000 PSF ALLOWABLE BEARING PRESSURE CONCRETE SHALL ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS IN 28 DAYS, U.N.O.:

f'c = 2,500 psi: FOUNDATION WALLS* 2,500 psi: FOOTINGS* 2,500 psi: INTERIOR SLABS ON GRADE

3,500 psi: GARAGE & EXT. SLABS ON GRADE fy = 60,000 psi * UTILIZE 5½" SACK 2500 PSI CONCRETE MIXES THAT ARE

- EQUIVALENT TO 3,000 PSI CONCRETE FOR WEATHERING POTENTIAL • ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS
- THAN 5% OR MORE THAN 7% AIR ENTRAINMENT. • FOUNDATION WALL DESIGN IS BASED ON BACKFILL SOIL
- CLASSIFICATIONS OF SC, ML-CL, OR CL (60 pcf) SOIL. ● TYPICAL REINFORCEMENT DETAILS: LAP ALL REBAR 24" MIN.; BEND BARS AND LAP AT CORNERS; PROVIDE 6" HOOK INTO SUPPORTING FOOTINGS WHEN FOOTINGS INTERSECT; PROVIDE 3" MINIMUM COVER AT THE BOTTOM BARS AND 1 1/2" COVER AT THE SIDES.
- FOUNDATION WALLS SHALL BE BRACED, PRIOR TO BACKFILLING, BY EITHER ADEQUATE TEMPORARY BRACING OR INSTALLATION OF FIRST FLOOR DECK.
- ALL FOOTINGS SHALL BEAR BELOW FROST LINE. CONSULT SOILS REPORT/ LOCAL MUNICIPALITY FOR MINIMUM DEPTH BELOW GRADE. • FOOTINGS AND SLABS ON GRADE SHALL BEAR ON VIRGIN SOIL OR
- 95% COMPACTED FILL. • PROVIDE CONTROL JOINTS AT ALL INSIDE CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY TO DEVELOP. (15'-0" O.C.)
- FASTEN SILL PLATES TO FOUNDATION WALLS WITH %" DIA. ANCHOR BOLTS W/ MIN. 3"x3"x ¼" PLATE WASHERS (EDGE OF WASHER TO BE LOCATED WITHIN 1/2" OF EXTERIOR EDGE OF SILL PLATE) & NUTS @ 6'-0" O.C. @ 2-STORY & 4'-0" O.C. @ 3-STORY CONDITIONS w/ 7" MIN. EMBEDMENT INTO CONC. PROVIDE A MINIMUM OF 2 ANCHORS PER PLATE, 12" MAXIMUM FROM PLATE ENDS, U.N.O. (SEE FND. DETAILS).
- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT W/ CONCRETE OR MASONRY FOUNDATION SHALL BE PRESERVATIVE TREATED
- BUILDER TO VERIFY CORROSION-RESISTANCE COMPATIBILITY OF HARDWARE & FASTENERS IN CONTACT W/ PRESERVATIVE-TREATED WOOD. CONTACT LUMBER & HARDWARE SUPPLIERS TO COORDINATE ARCH/BUILDER TO VERIFY ALL DIMENSIONS

HOLD-DOWN SCHEDULE

SYMBOL SPECIFICATION

HD-I SIMPSON STHD14 (RJ) HOLD-DOWN

SIMPSON CSI6 STRAP TIE (14" END LENGTH)

SIMPSON MSTC40 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM U.N.O.)

SIMPSON MSTC66 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM U.N.O.)

MEANS & METHODS NOTES

THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS FINISHED AND ALL PLAN, DETAIL, AND NOTE SPECIFICATIONS HAVE BEEN COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURES AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, AND TIE-DOWNS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING AND BRACING REQUIRED TO STABILIZE AND PROTECT EXISTING AND ADJACENT STRUCTURES AND SYSTEMS DURING COURSE OF DEMOLITION AND CONSTRUCTION OF THE PROJECT.

STRUCTURAL DESIGN AND SPECIFICATIONS ASSUME THAT ALL SUPPORTING AND NON-SUPPORTING ELEMENTS IN CONTACT WITH FLOOR FRAMING ARE LEVEL, INCLUDING, BUT NOT LIMITED TO: FOUNDATIONS, SLABS ON GRADE, BEAMS, WALLS, AND NON-BEARING ELEMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LEVELNESS AND MAKE ADJUSTMENTS AS NECESSARY, INCLUDING CONSIDERATION OF THOSE AREAS THAT MAY BE WITHIN CONTRACTUAL, INDUSTRY, OR WARRANTY

ADDITIONAL NOTES FOR TRUSS & I-JOIST MANUFACTURER

ROOF TRUSS, FLOOR TRUSS AND ENGINEERED JOISTS SHALL BE DESIGNED TO MEET THE DIFFERENTIAL DEFLECTION CRITERIA BELOW, UNLESS NOTED OTHERWISE ON PLAN. MULHERN & KULP CANNOT BE HELD RESPONSIBLE FOR ANY STRUCTURAL ISSUES RELATED TO ANY BUILDING COMPONENT IF COMPONENT SHOP DRAWINGS ARE NOT SUBMITTED TO MEK FOR REVIEW PRIOR TO FABRICATION, DELIVERY, OR INSTALLATION.

TRUSSES SHALL BE DESIGNED SO THAT DIFFERENTIAL DEFLECTION BETWEEN ADJACENT PARALLEL TRUSSES OR GIRDER TRUSSES DOES NOT EXCEED THE FOLLOWING: A. ROOF TRUSSES:

- 1/4" DEAD LOAD FLOOR TRUSSES, ATTIC TRUSSES, & I-JOISTS:
- 1/8" DEAD LOAD FLOOR TRUSSES & ATTIC TRUSSES ADJACENT TO FLOOR FRAMING BY OTHERS:

LIMIT ABSOLUTE TRUSS DEFLECTION TO 3/16" DEAD LOAD. (NOT DIFFERENTIAL DEFLECTION)

LOADING AND DESIGN PARAMETERS

GRAVITY DESIGN LOADS: DEAD LOAD (PSF): ROOF TRUSS TOP CHORD: ROOF TRUSS BOTTOM CHORD FLOOR (TRUSSES): FLOOR (JOISTS): DECK (JOISTS) : TILE FLOORS:

SEISMIC LOAD: (IBC 1613)

LIVE LOAD (PSF): RESIDENTIAL LIVING AREAS: RESIDENTIAL SLEEPING AREAS: RESIDENTIAL WOOD DECKS: GARAGE :

SNOW LOAD: GROUND SNOW LOAD (Pg) (PSF): FLAT ROOF SNOW LOAD (Pt) (PSF): SNOW EXPOSURE FACTOR (C.): 0.9 SNOW LOAD IMPORTANCE FACTOR (I): THERMAL FACTOR (Ci):

LATERAL DESIGN LOADS: WIND LOAD: (IBC 1609) SPEED (Vult) (MPH): WIND RISK CATEGORY: IMPORTANCE FACTOR (IW): EXPOSURE CATEGORY: INTERNAL PRESSURE COEFF. (GCpi): ±0.18 TOPOGRAPHIC FACTOR (Kzt):

SEISMIC RISK CATEGORY: SEISMIC IMPORTANCE FACTOR (I.): MAPPED SPECTRAL RESPONSE: Ss: 1.415 Sı: 0.492 D(DEFAULT) SITE CLASS: SPECTRAL RESPONSE COEFF.: Spi: 0.593 Sps: 1.132 SEISMIC DESIGN CATEGORY: BASIC SEISMIC-FORCE-RESISTING SYS: LIGHT FRAMED WALLS W/WOOD STRUCTURAL PANELS ULTIMATE BASE SHEAR: TRANS: 17 K SEISMIC RESPONSE COEFF. (Cs):

TRANS: 0.174 LONG: 0.174 RESPONSE MODIFICATION FACTOR (R): TRANS: 6.5 LONG: 6.5 ANALYSIS PROCEDURE USED: FOUNTALENT LATERAL FORCE

LATERAL BRACING NOTES

THIS HOME HAS BEEN ENGINEERED TO RESIST LATERAL FORCES RESULTING FROM: 100 MPH WIND SPEED, EXP. C (ASCE 7-16 WIND MAP, PER IRC R301.2.1.1) RISK CAT. 2 & SEISMIC CAT. D2.

) MPH WIND IN 2018 IRC MAF ENGINEERED DESIGN WAS COMPLETED PER 2018 IBC (SECTION 1609 & 1613) & ASCE 7-16, AS PERMITTED BY R301.1.3 OF THE 2018 IRC. ACCORDINGLY, THIS HOME, AS DOCUMENTED AND DETAILED HEREWITHIN, IS ADEQUATE TO RESIST THE CODE REQUIRED LATERAL FORCE: AND DOES NOT NEED TO CONFORM TO THE PRESCRIPTIVE PROVISIONS OF R602.10.

STANDARD EXTERIOR WALL SHEATHING <u>SPECIFICATIONS</u> (INTERIOR WALL SPECIFICATION WHERE NOTED ON PLANS)

• 1/6" OSB OR 1/32" PLYWOOD: FASTEN SHEATHING W/ 21 XO.131" NAILS @ 6"o.c. AT ALL SUPPORTED PANEL EDGÉS AND 12" O.C. IN THE PANEL FIELD. ALL SHEATHING SHEET PANEL EDGES SHALL OCCUR OVER WALL FRAMING MEMBERS OR 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT PANEL EDGE. ALL EXTERIOR WALLS SHALL BE CONSTRUCTED PER THIS SPECIFICATION U.N.O. ON

3" o.c. EDGE NAILING (WHERE NOTED ON PLANS)

• 16" OSB OR 132" PLYWOOD: ONLY AT LOCATIONS INDICATED ON PLANS - SHEATHE WALL SHOWN WITH 1/6" OSB. FASTEN SHEATHING W/ 21"XO.131" NAILS @ 3" O.C. AT EDGES AND 12" O.C. AT CENTER. ALL SHEATHING SHEET PANEL EDGES SHALL OCCUR OVER WALL FRAMING MEMBERS OR 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT PANEL EDGE AND 3" O.C. FASTENING.

- LATERAL ANALYSIS ASSUMES STUD SPACING @ 16" o.c. ALL SHEAR WALLS SHALL HAVE DOUBLE TOP PLATES FASTENED TOGETHER W/ 3"XO.131" NAILS @ 8" O.C. USE (12)31/2"x0.135" NAILS AT EACH LAP SPLICE, (6) EACH SIDE C JOINT (TYP. U.N.O)
- 3. ALL EXTERIOR WALLS ARE CONTINUOUSLY SHEATHED.
- 4. ALL INTERIOR SHEAR WALLS AND EXTERIOR WALLS ARE SHEATHED ABOVE AND BELOW OPENINGS.

LEGEND

- IIIIII INTERIOR BEARING WALL
- □□□□□ BEARING WALL ABOVE (B.W.A.), OR SHEARWALL
- --- BEAM / HEADER
- INTERIOR SHEAR WALL PANEL OR EXTERIOR SHEAR WALL W/ 3" O.C. EDGE NAILING
- AREA OF OVERFRAMING
- JL METAL HANGER
- * INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.





GENERAL STRUCTURAL NOTES

DESIGN PARAMETERS

• <u>DESIGN IS BASED ON 2018 INTERNATIONAL RESIDENTIAL CODE</u> **\$ 2018 INTERNATIONAL BUILDING CODE** • WOOD FRAME ENGINEERING IS BASED ON NDS, "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" - LATEST EDITION.

GENERAL FRAMING

- EXTERIOR BEARING WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS) @ 16" O.C. (w/ DOUBLE TOP PLATE) HEM FIR (HF) "STUD" GRADE LUMBER, OR BETTER, U.N.O.
- INTERIOR BEARING WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS) @ 16" O.C. (w/ DOUBLE TOP PLATE) HEM FIR (HF) "STUD" GRADE LUMBER, OR BETTER, U.N.O.
- ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED
- WITH 2x 'STUD' GRADE MEMBERS SPACED @ 24" O.C. (MAX.) • ALL WALLS TALLER THEN TYP. PLATE HEIGHT SHALL BE
- CONSIDERED BALLOON FRAMED & SHALL BE CONSTRUCTED FROM FLOOR TO UNDERSIDE OF FRAMING AT NEXT LEVEL. B.F. WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS) HEM FIR (HF) #2 GRADE LUMBER, OR BETTER.
- ALL HEADERS SHALL BE SUPPORTED BY (1)2x JACK STUD & (1)2x KING STUD. MINIMUM.
- THE NUMBER OF STUDS SPECIFIED AT A SUPPORT INDICATES THE NUMBER OF JACK STUDS REQUIRED, U.N.O.. • ALL 2x6 AND LARGER SOLID SAWN BEAMS/HEADERS SHALL BE

HEM FIR #2 (HF #2) OR BETTER. ALL 4x6 AND LARGER SOLID SAWN

- LUMBER SHALL BE DOUG FIR #2 (DF #2) OR BETTER. • ALL FRAMING LUMBER SHALL BE KILN DRIED TO 15% MC (KD-15). • ALL TYP NAIL FASTENER REQUIREMENTS ARE NOTED IN GENERAL NOTES, IN DETAILS, OR ON PLANS. ALL NAILS SPECIFIED ARE MIN
- DIAMETER AND LENGTH REQUIRED FOR CONNECTION, ALL HANGER NAILS SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS FOR MAX CHARTED CAPACITY. NOTE: HANGERS USE COMMON NAIL DIAMETERS NOT TYPICAL FRAMING GUN NAILS.
- FASTEN ALL BEAMS TO COLUMNS, OR FLUSH BEAMS TO SUPPORTING BEAMS, W/ (4) 3"x0.131" TOENAILS (MIN.), TYP. U.N.O.
- PROVIDE SOLID BLOCKING IN FLOOR SYSTEM UNDER ALL POSTS & HOLD-DOWNS CONTINUOUS TO FOUNDATION/BEARING. BLOCKING TO MATCH POST ABOVE.

PSI; E=1.8x10^6 PSI; DF/DF; 24F-V4 (U.N.O)

- ENGINEERED LUMBER TO MEET OR EXCEED THE FOLLOWING: LSL MEMBERS - Fb=2325 PSI; Fv=310 PSI; E=1.55x10^6 PSI LVL MEMBERS - Fb=2600 PSI; Fv=285 PSI; E=2.0xI0^6 PSI GLB MEMBERS - Fb(+)=2400 PSI; Fb(-)=1850 PSI; Fv=265
- ENGINEERED LUMBER POSTS TO MEET OR EXCEED THE FOLLOWING: LVL MEMBERS - Fb=2400 PSI; FcII=2500 PSI; E=1.8xI0^6 PSI • FACE NAIL MULTI-PLY 2x BEAMS & HEADERS W/ 3-ROWS OF
- 3"x0.131" NAILS (MIN.) @ 12" O.C. STAGGERED. APPLY NAILING FROM BOTH FACES @ 3-PLY OR MORE CONDITIONS. UTILIZE 2 ROWS OF NAILS FOR 2x6 \$ 2x8 MEMBERS
- ALL MEMBERS SPECIFIED AS MULTI-PLY 13/4" SHALL BE FASTENED TOGETHER PER MANUFACTURER. EQUIVALENT WIDTH SOLID MATERIAL MAY BE USED AS EQUAL.
- FASTEN 2x WOOD PLATES TO TOP FLANGE OF STEEL BEAMS w/P.A.F.s ('HILTI' X-U PINS OR EQUAL (0.157" DIA. x 2" LONG MIN.)) @ 16" O.C. STAGGERED, OR 1/2" DIA. BOLTS @ 48" O.C., STAGGERED. • REFER TO IRC FASTENING SCHEDULE TABLE R602.3(1) FOR ALL CONNECTIONS, TYP. U.N.O.

FLOOR FRAMING

- I-JOISTS/TRUSSES SHALL BE DESIGNED BY MANUF. TO MEET OR EXCEED L/480 LIVE LOAD DEFLECTION CRITERIA AND SHALL RUN CONTINUOUS OVER SUPPORTS WHEREVER POSSIBLE. ALL LOADS SHOWN ON PLAN FOR MANUF. DESIGNS ARE ASD LEVEL LOADS, U.N.O. (EXCLUDES STONE/MARBLE OR WET BED CONSTRUCTED FLOORS - CONTACT M&K FOR EXCLUDED DESIGNS).
- ALL METAL I-JOIST/TRUSS HANGERS SHALL BE SPECIFIED BY I-JOIST/TRUSS MANUFACTURER, UNLESS OTHERWISE NOTED. • I-JOIST/TRUSS SHOP DRAWINGS SHALL BE SUBMITTED TO
- ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY.
- 2x FLOOR JOISTS HAVE BEEN DESIGNED TO MEET OR EXCEED L/360 LIVE LOAD DEFLECTION CRITERIA.
- TYPICAL 2x JOIST HANGERS (U.N.O. ON PLANS): SINGLE PLY: SIMPSON LUS210 DOUBLES: SIMPSON LUS210-2 • FLOOR SHEATHING SHALL BE 23/32" A.P.A. RATED 'STURD-I-FLOOR'
- 24" O.C, EXPOSURE I (OR APPROVED EQUAL) WITH TONGUE AND GROOVE EDGES. FASTEN TO FRAMING MEMBERS W/ GLUE AND 2 ½" x 0.131" NAILS @ 6"o.c. @ PANEL EDGES & @ 12"o.c. FIELD.
- ALL FLUSH CONNECTIONS SHALL BE CONNECTED WITH HANGER APPROPRIATE FOR MEMBER SIZE. U.N.O.

• FASTEN HANGERS TO SINGLE PLY FLUSH BEAMS W/ 1/2" LONG NAILS.

ROOF FRAMING

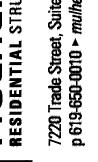
- FASTEN EACH ROOF TRUSS TO TOP PLATE W/ (4) 3"x0.131" TOENAILS (MIN.) & (I) 'SIMPSON' SDWC15600 SCREW @ ALL BEARING POINTS. PROVIDE (2) 'SIMPSON' SDWC15600 SCREWS AT 2-PLY GIRDER TRUSSES, (3) 'SIMPSON' SDWC15600 SCREWS AT 3-PLY GIRDER TRUSSES AT ALL BEARING POINTS.
- FASTEN EACH ROOF RAFTER TO TOP PLATE WITH (I) 'SIMPSON' SDWC15600 SCREW. PROVIDE (2) 'SIMPSON' SDWC15600 SCREWS AT FLUSH BEAMS IN THE ROOF - AT ALL BEARING POINTS.
- ROOF SHEATHING SHALL BE 7/16" A.P.A. RATED SHEATHING 24/16 EXPOSURE I (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBER W/ 2 1 x 0.131" NAILS @ 6"o.c. AT PANEL EDGES & @ 12" O.C. AT INTERMEDIATE SUPPORTS. ROOF SHEATHING SHALL EXTEND BELOW ALL INSTANCES OF OVERFRAMING. BLOCKING SHALL BE INSTALLE AS REQUIRED TO LIMIT ROOF SHEATHING SPANS TO 24" MAX. • WITHIN 48" OF ALL ROOF EDGES, RIDGES, & HIPS FASTEN ROOF
- SHEATHING FIELDS PER EDGE NAILING SPEC. • ALL METAL HANGERS SHALL BE SPECIFIED BY THE TRUSS
- MANUFACTURER, UNLESS OTHERWISE NOTED.
- ROOF TRUSS SHOP DRAWINGS SHALL BE SUBMITTED TO ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY.
- ROOF TRUSS SHOP DRAWINGS & CALCULATIONS SHALL BE PREPARED BY A WASHINGTON STATE LICENSED ENGINEER AND SHALL BE DESIGNED FOR UNBALANCED SNOW LOADING PER ASCE 7-16, SECTION 7.6. • ERECT AND INSTALL ROOF TRUSSES PER WTCA & TPI'S BCSI I-08
- "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES." • FASTEN OVER-FRAMED TRUSS SETS TO TRUSSES BELOW w/ (2)
- 3"x0.131" TOENAILS AT EA. TRUSS. • SUPPORT PORCH & SHORT SPAN ROOF TRUSSES (UP TO 6' TRIB.)
- w/2x6 LEDGER FASTENED TO FRAMING w/(3) 3"x0.131" NAILS @ 16" • FASTEN ALL INTERIOR NON-BEARING PARTITION WALLS TO TRUSS BOTTOM CHORD ABOVE WITH SIMPSON STC CLIPS AT 24" O.C. MAX. PROVIDE BLOCKING BETWEEN THE TRUSS BOTTOM CHORDS AS REQUIRED FOR THE PARALLEL CONDITIONS.

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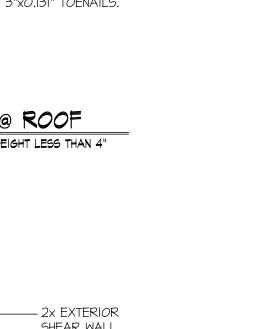
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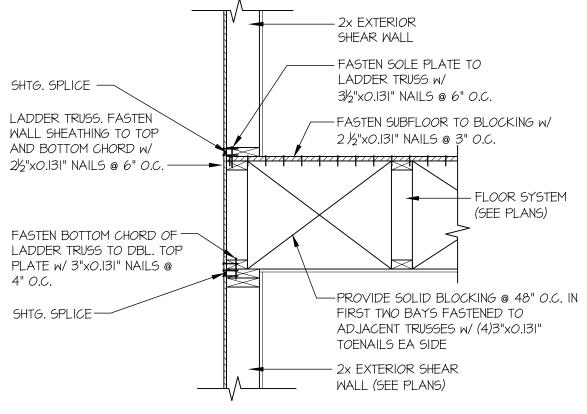
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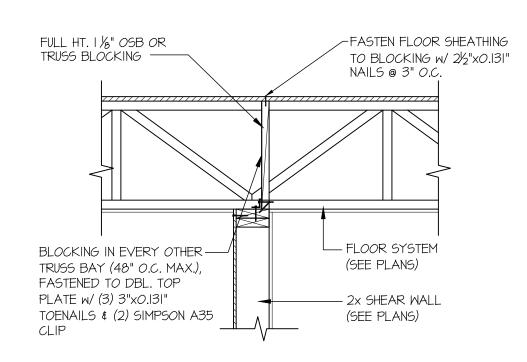
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TYPICAL SHEAR TRANSFER DETAIL @ ROOF SCALE: 3/4"=1'-0" HEEL HEIGHT LESS THAN 4"

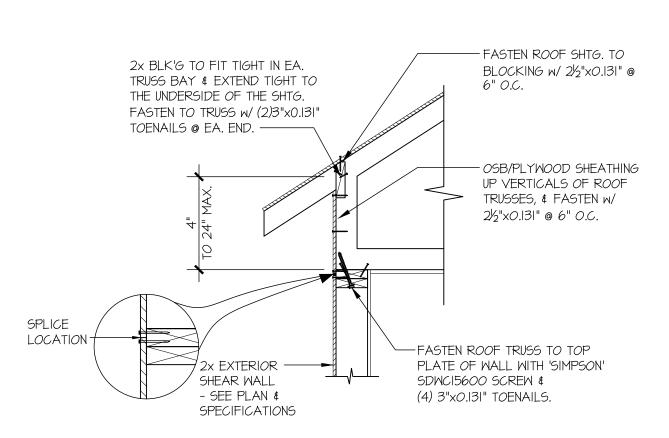




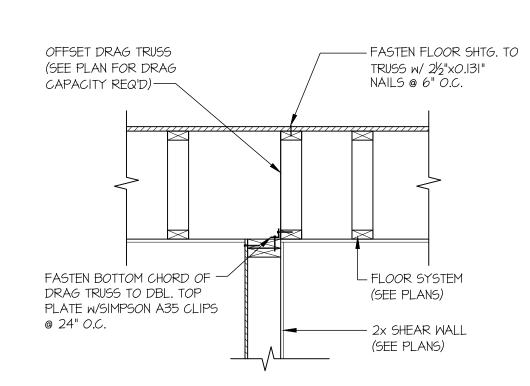
TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL SCALE: 3/4"=1'-0"



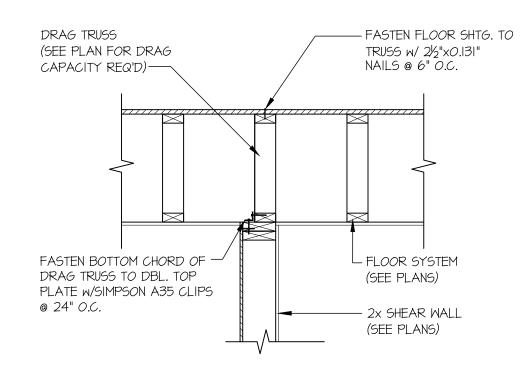
SHEAR TRANSFER DETAIL @ SHEAR WALL BELOW SCALE: 3/4"=1'-0"



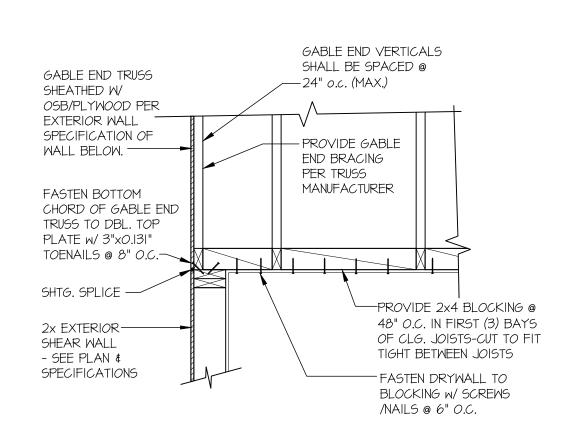
TYPICAL SHEAR TRANSFER DETAIL @ RAISED HEEL TRUSS SCALE: 3/4"=1'-0" HEEL HEIGHT UP TO 24" MAX.



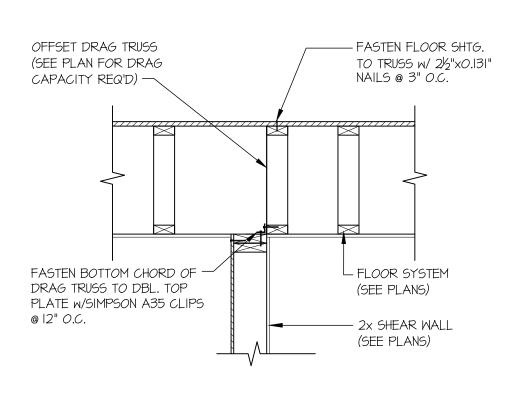
SHEAR TRANSFER DETAIL @ SHEAR MALL BELOW



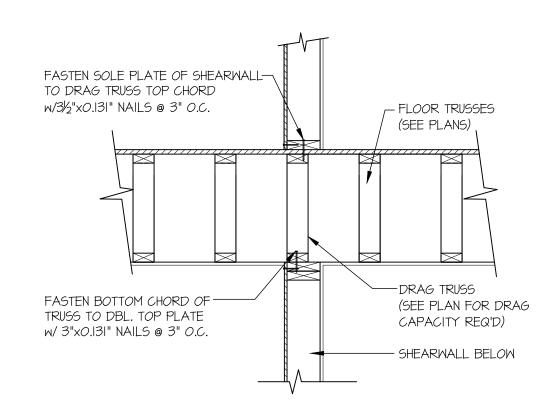
SHEAR TRANSFER DETAIL (15) @ SHEAR WALL BELOW SCALE. 2/4"-11 6" SCALE: 3/4"=1'-0"

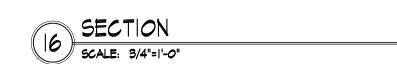


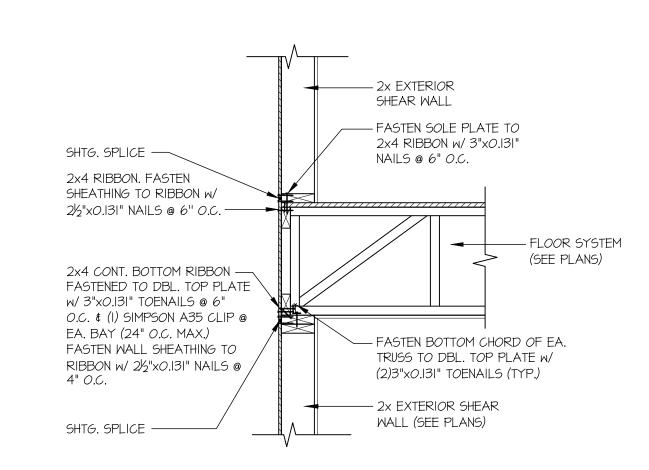




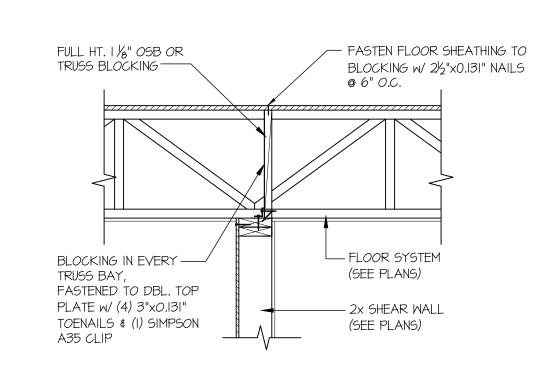
SHEAR TRANSFER DETAIL @ SHEAR WALL BELOW SCALE: 3/4"=1'-0"



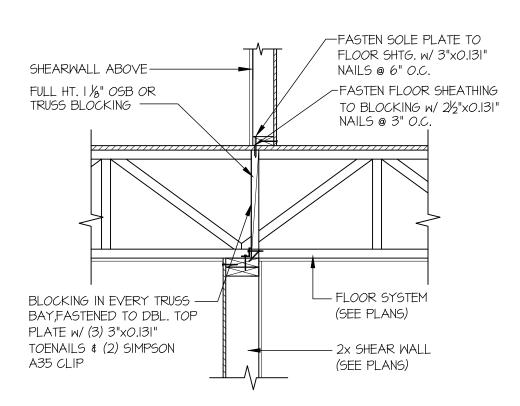




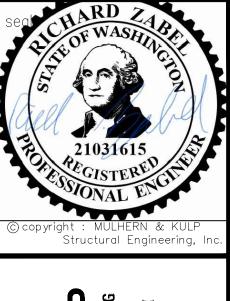
TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL SCALE: 3/4"=1'-0" PERPENDICULAR FRAMING



SHEAR TRANSFER DETAIL (13) @ SHEAR WALL BELOW SCALE: 3/4"=1'-0"



SHEAR TRANSFER DETAIL @ SHEAR WALL BELOW SCALE: 3/4"=1'-0"



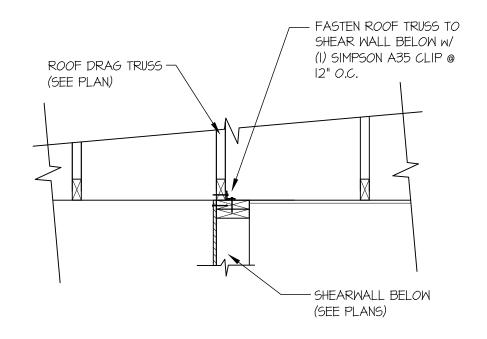
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M&K project number: 154-22002 RJZ

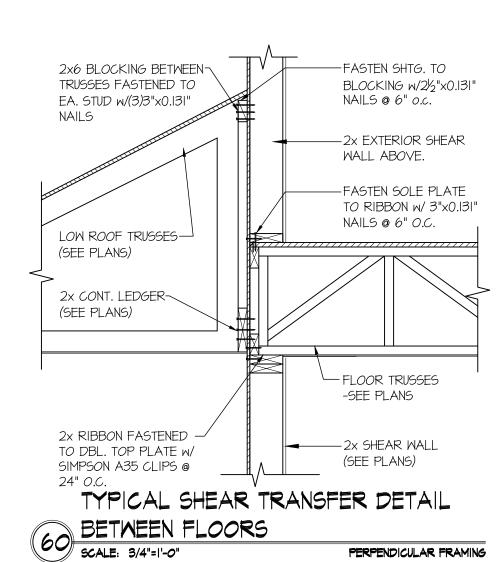
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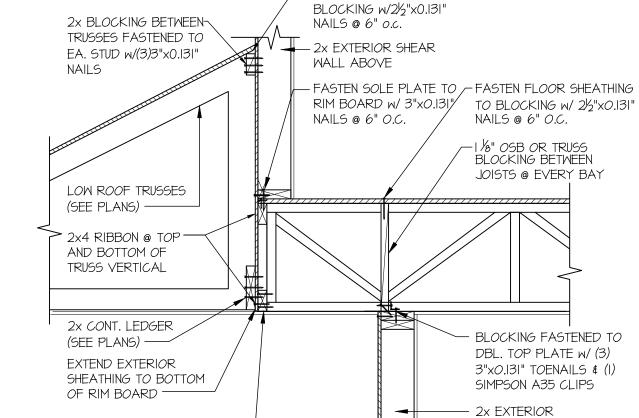
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SHEAR TRANSFER DETAIL @ INTERIOR SHEARWALL ABOVE SCALE: 3/4"=1'-0" PARALLEL FRAMING



SHEAR TRANSFER DETAIL @ INTERIOR SHEARWALL BELOW SCALE: 3/4"=1'-0"





- FASTEN SHTG. TO

SHEAR TRANSFER DETAIL @

SHEARWALL BELOW

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

FASTEN BOTTOM RIBBON -

TO EACH TRUSS VERTICAL

w/ (2) 3" x0.131" NAILS

AB0VE

SHEAR TRANSFER DETAIL

- TOP CHORD OF

7/16" A.P.A. RATED 0.S.B.

SHEATHING (ONE SIDE) W/

2½"x0.131" NAILS @ 3" O.C.

-BOTTOM CHORD OF

-FASTEN 2x6 BLOCKING

SIMPSON A35 CLIP

TO DBL. TOP PLATE w/ (I)

SHEARWALL

(SEE PLANS)

ROOF TRUSS

ROOF TRUSS

@ INT. SHEARWALL ABOVE

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

2x6 BLOCKING FASTENED TO -

TRUSS @ EA. END w/ (2)3"x0.131"

TOENAILS. FASTEN ROOF

SHEAR WALL

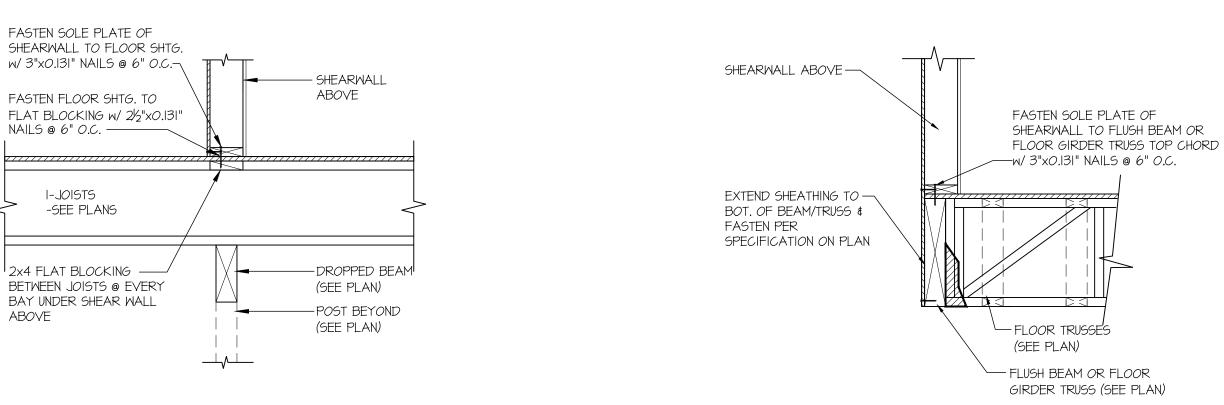
-SEE PLAN FOR

SPECIFICATIONS

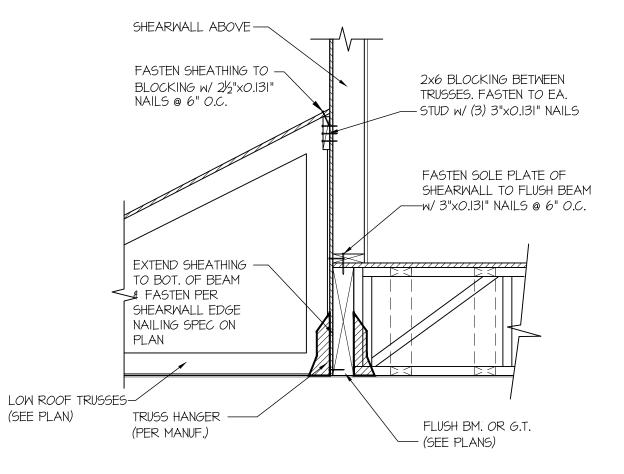
SHEATHING TO BLOCKING W/

2½"x0.131" NAILS @ 3" O.C.

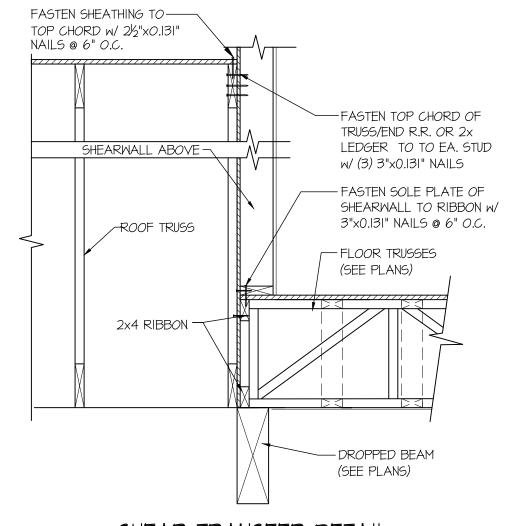
TYPICAL SHEAR TRANSFER DETAIL @ EXTERIOR WALL ABOVE SCALE: 3/4"=1'-0"



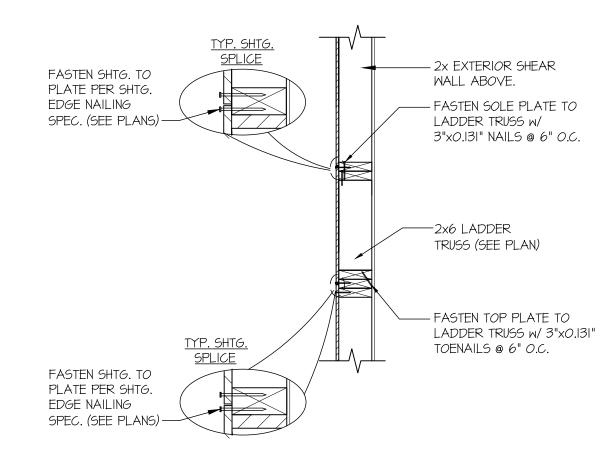






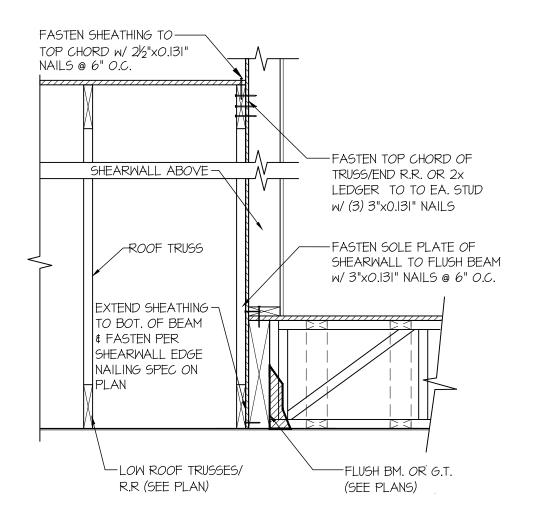


SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE SCALE: 3/4"=1'-0"

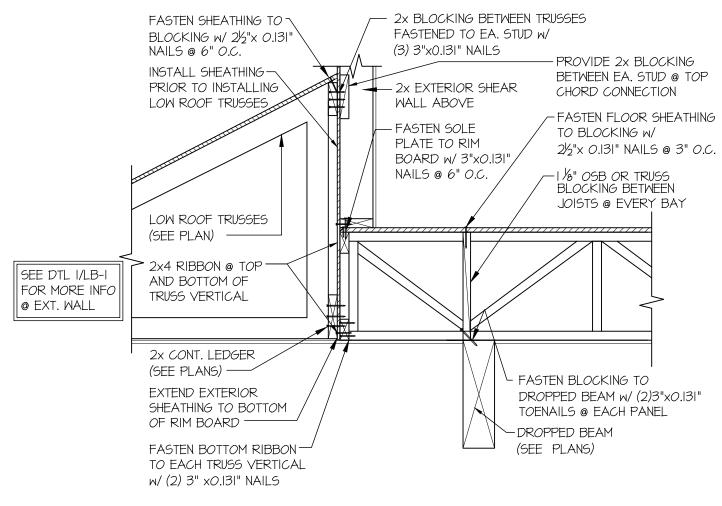


TYPICAL SHEAR TRANSFER DETAIL @ EXTERIOR WALL ABOVE LADDER TRUSS

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



SHEAR TRANSFER DETAIL @ 59 EXTERIOR SHEARWALL ABOVE SCALE: 3/4"=1'-0"



TYPICAL SHEAR TRANSFER DETAIL @ EXTERIOR WALL ABOVE SCALE: 3/4"=1'-0"



2

M&K project number: 154-22002

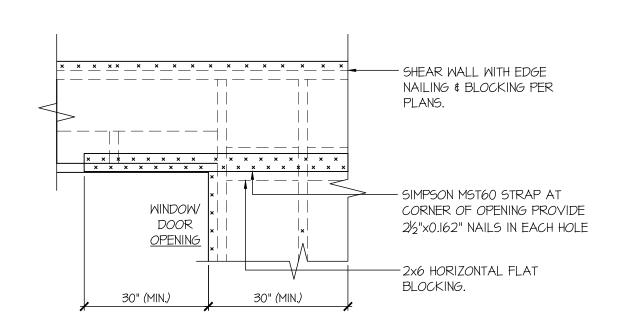
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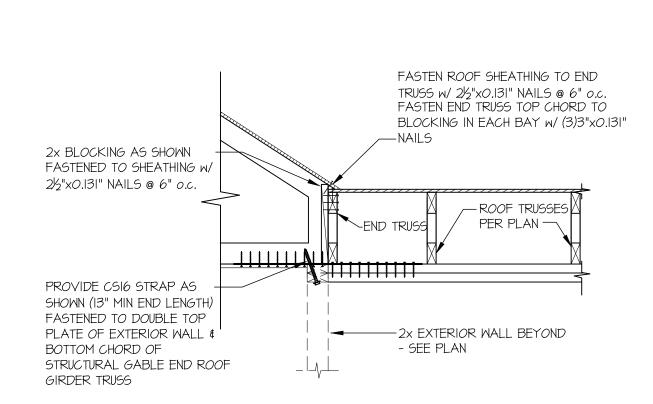
_B-2

SHEAR TRANSFER DETAIL @ NEXTERIOR SHEARWALL ABOVE // SCALE: 3/4"=1'-0"



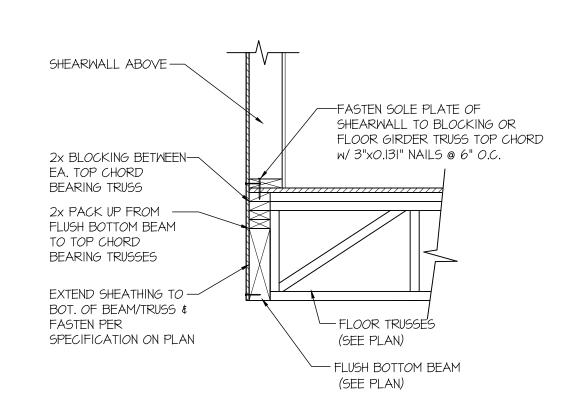
 ONLY REQUIRED WHERE SPECIFIED ON STRUCTURAL PLANS

EXT. WALL & INT. SHEARWALL 92 OPENING ELEVATION SCALE: NTS

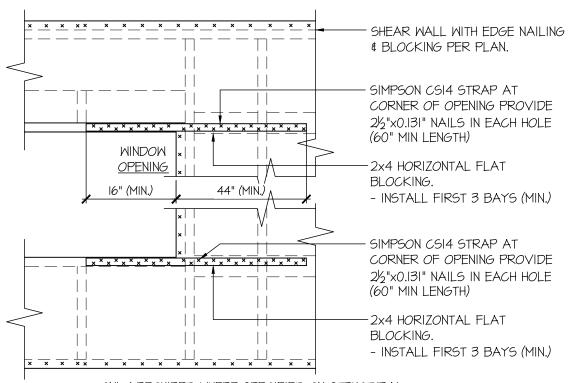


STRAP DETAIL

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

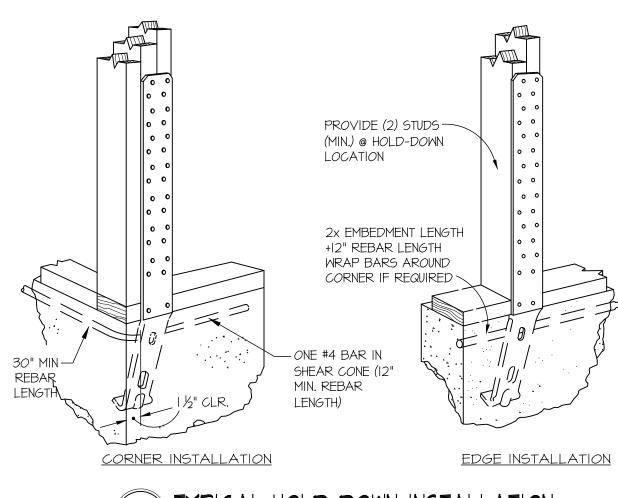


SECTION | SCALE: 3/4"=1'-0"

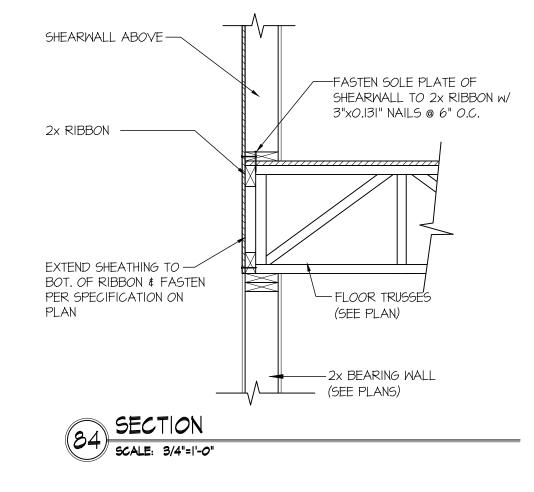


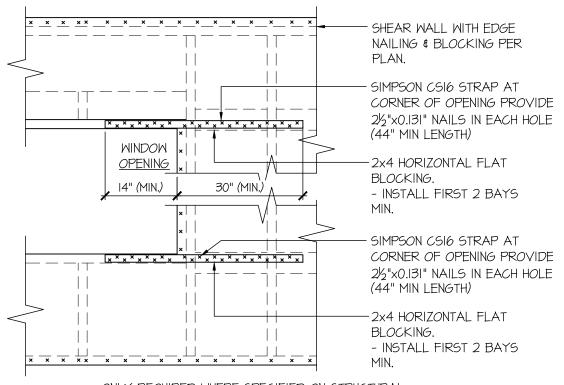
- ONLY REQUIRED WHERE SPECIFIED ON STRUCTURAL
- IF MIN LENGTH IS NOT PROVIDED RUN STRAP TO END OF WALL

EXT. WALL & INT. SHEARWALL 93 OPENING ELEVATION SCALE: NTS



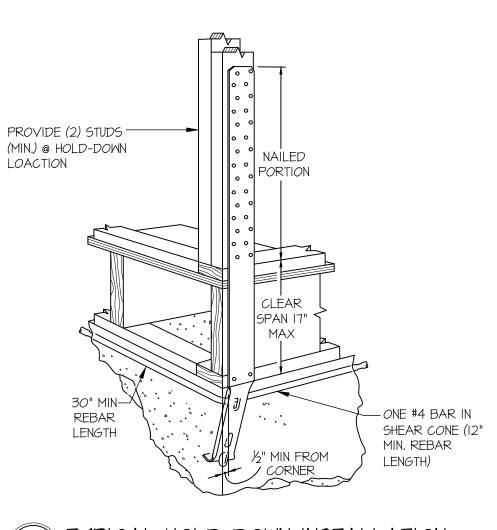
TYPICAL HOLD-DOWN INSTALLATION SIMPSON STHD HD @ FOUNDATION



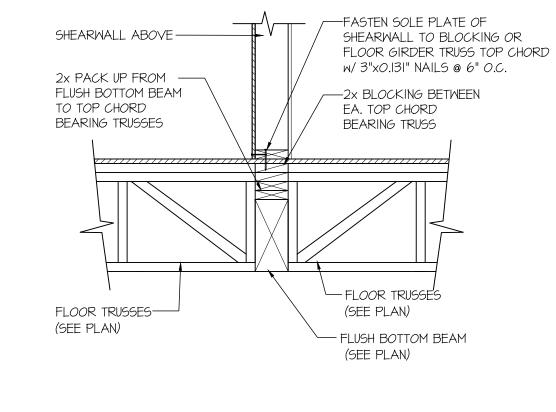


- ONLY REQUIRED WHERE SPECIFIED ON STRUCTURAL
- IF MIN LENGTH IS NOT PROVIDED RUN STRAP TO END OF WALL

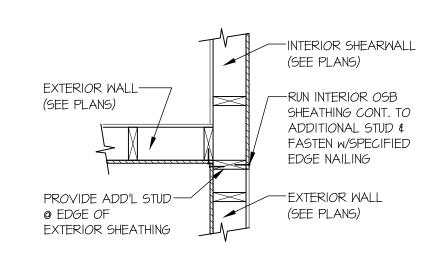
EXT. WALL & INT. SHEARWALL 94 OPENING ELEVATION SCALE: NTS



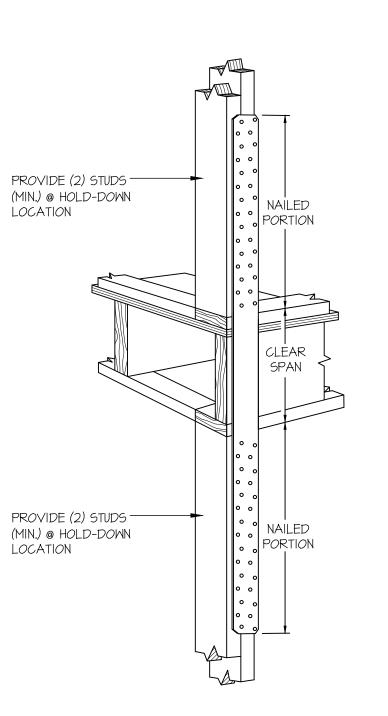








SHEAR TRANSFER DETAIL @ 99 INTERSECTING INT. SHEARWALL SCALE: 3/4"=1'-0" SHTG. OPPOSITE FACES







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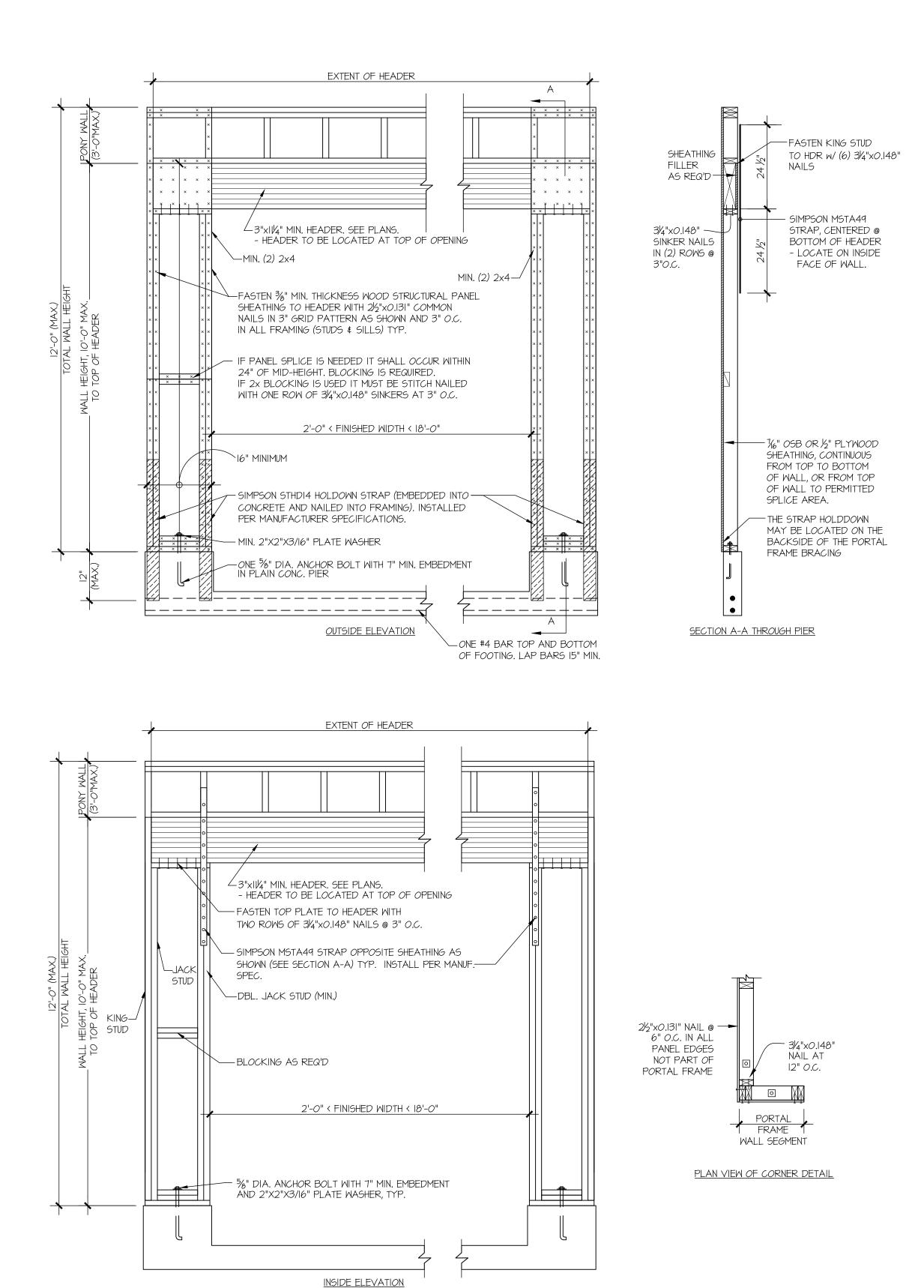
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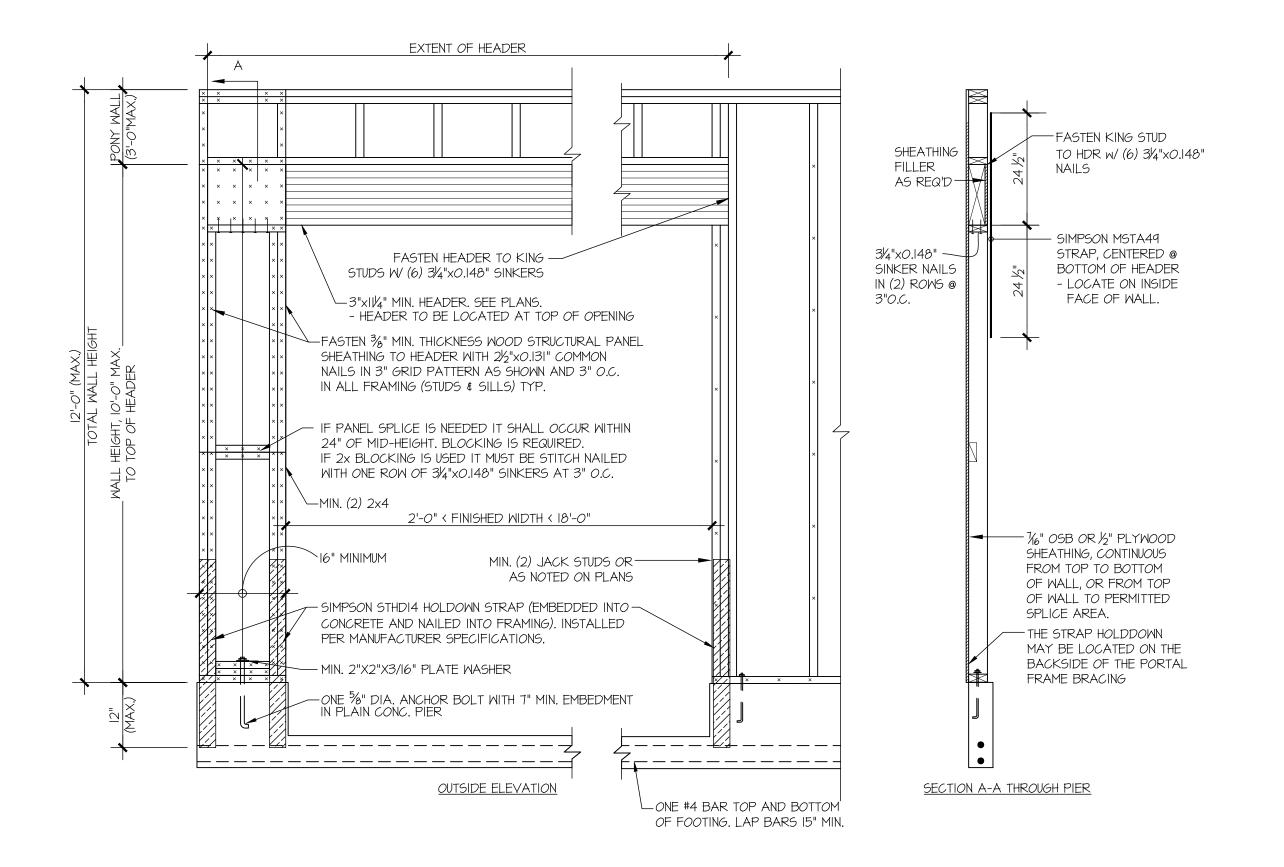
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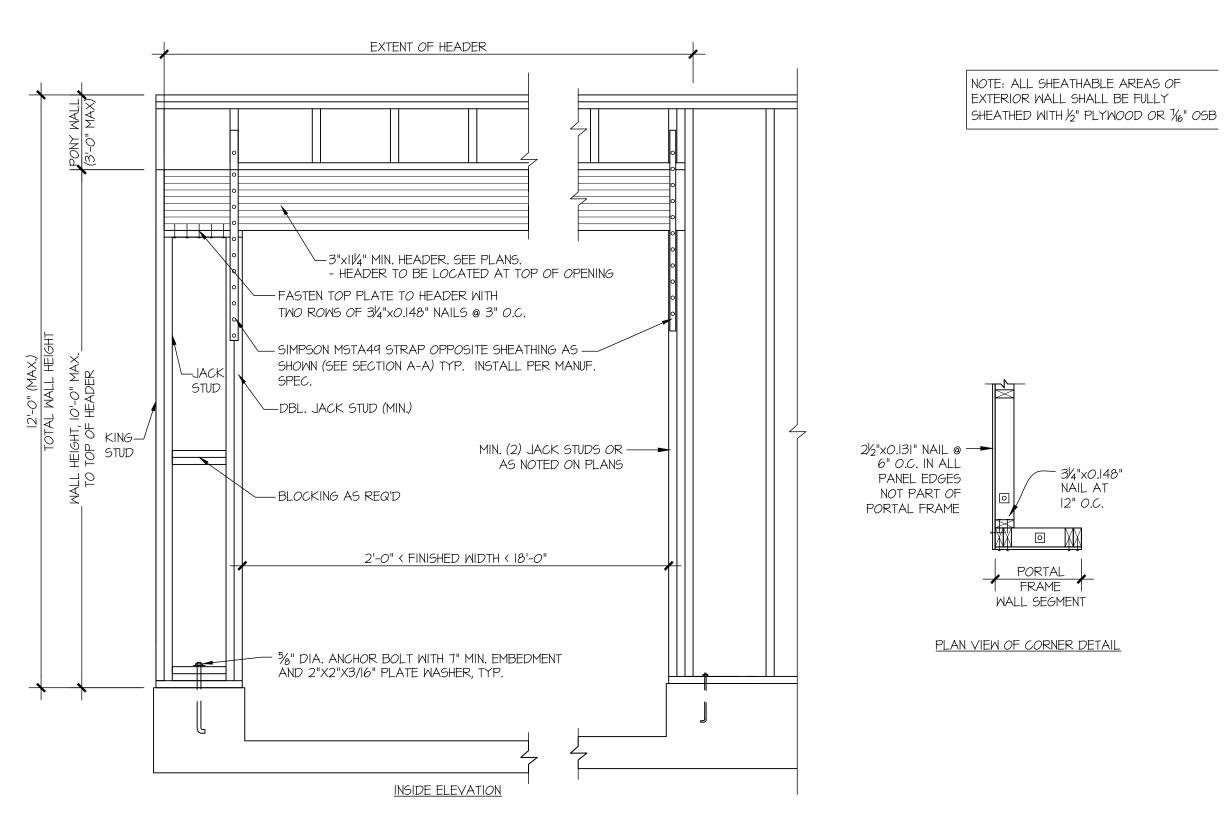
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APA PORTAL FRAME DETAIL MITH HOLDOMS SCALE: N.T.S.





APA PORTAL FRAME DETAIL MITH HOLDOMS SCALE: N.T.S. ONE SIDE OF GARAGE DOOR



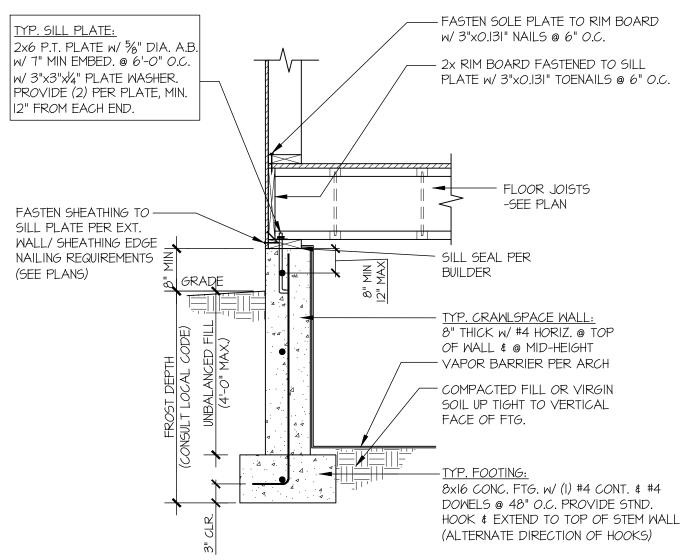
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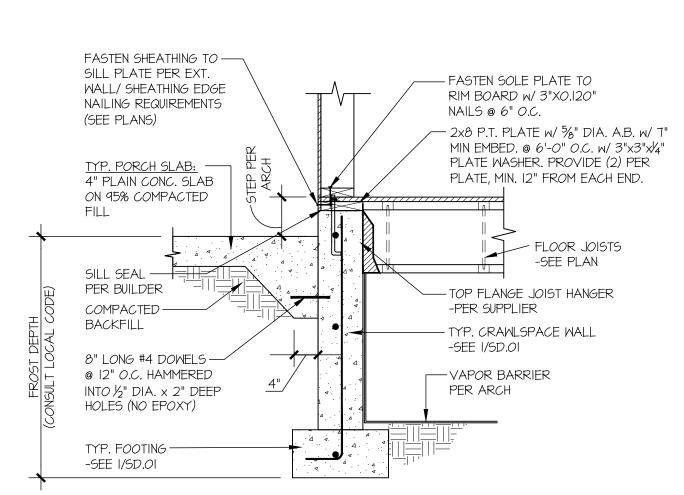
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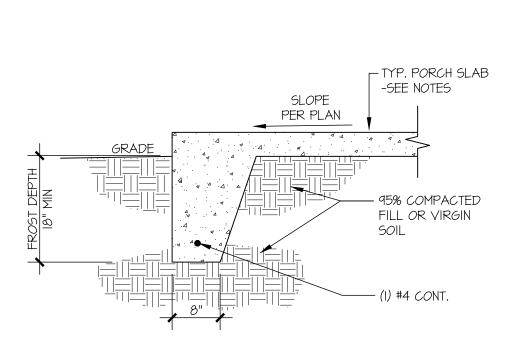
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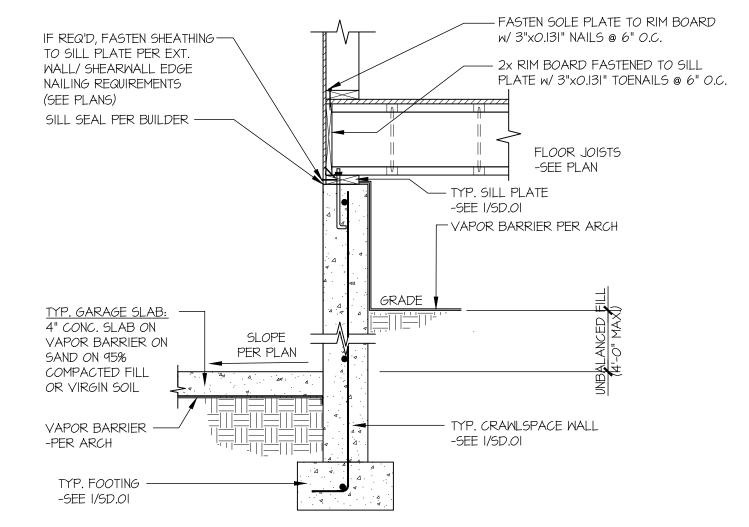
REVISIONS:

DETAIL















TYP. SILL PLATE

-SEE I/SD.OI

— TYP. GARAGE SLAB

-SEE 4/SD.OI

TYP. GARAGE WALL: 8" THICK w/ #4 HORIZ. @ TOP OF WALL & @ MID-HEIGHT

-SEE I/SD.OI

SLOPE

PER PLAN

FASTEN SHEATHING TO SILL —

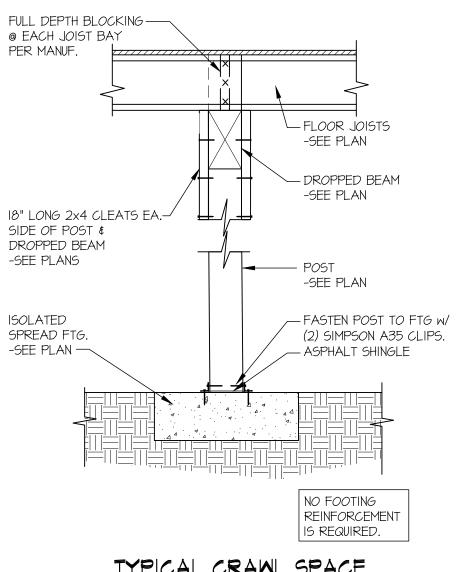
PLATE PER EXT. WALL/

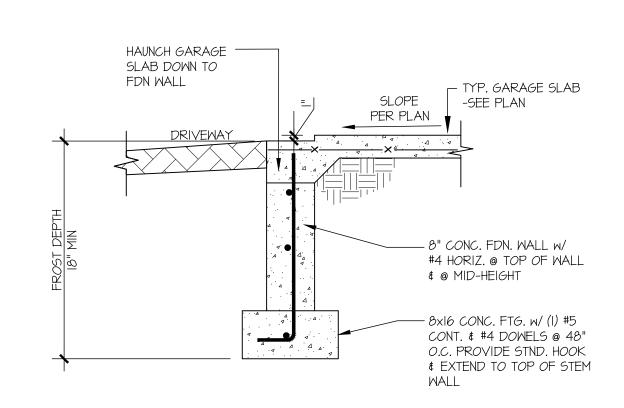
SHEARWALL EDGE NAILING

REQUIREMENTS (SEE PLANS)

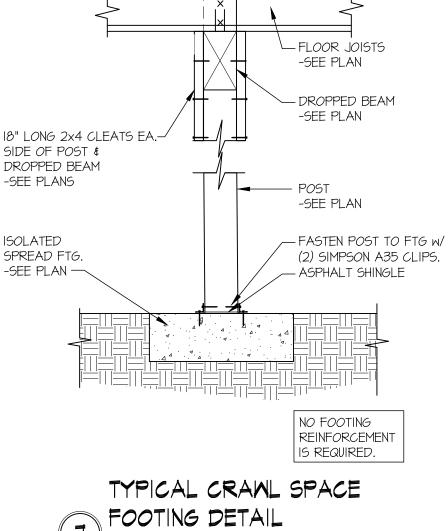
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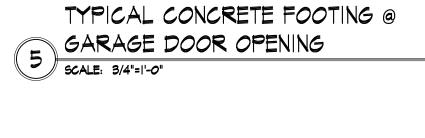


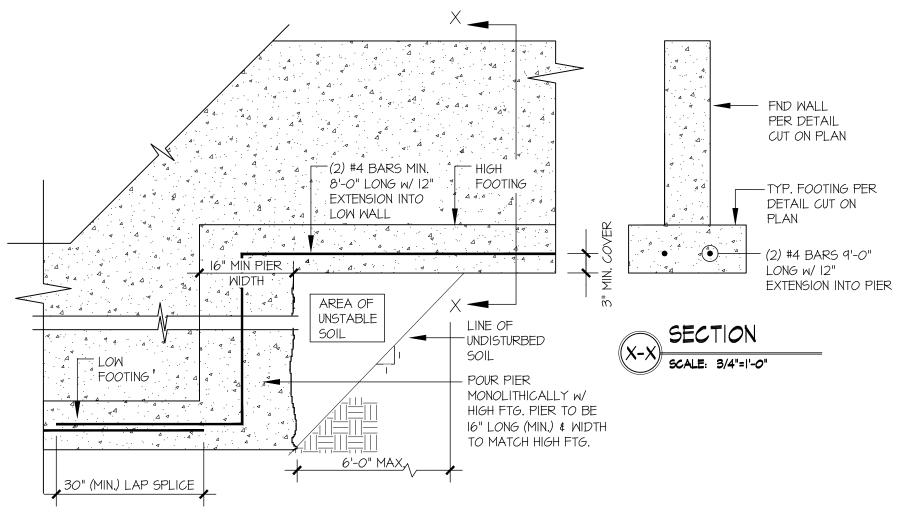






SCALE: 3/4"=1'-0"





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



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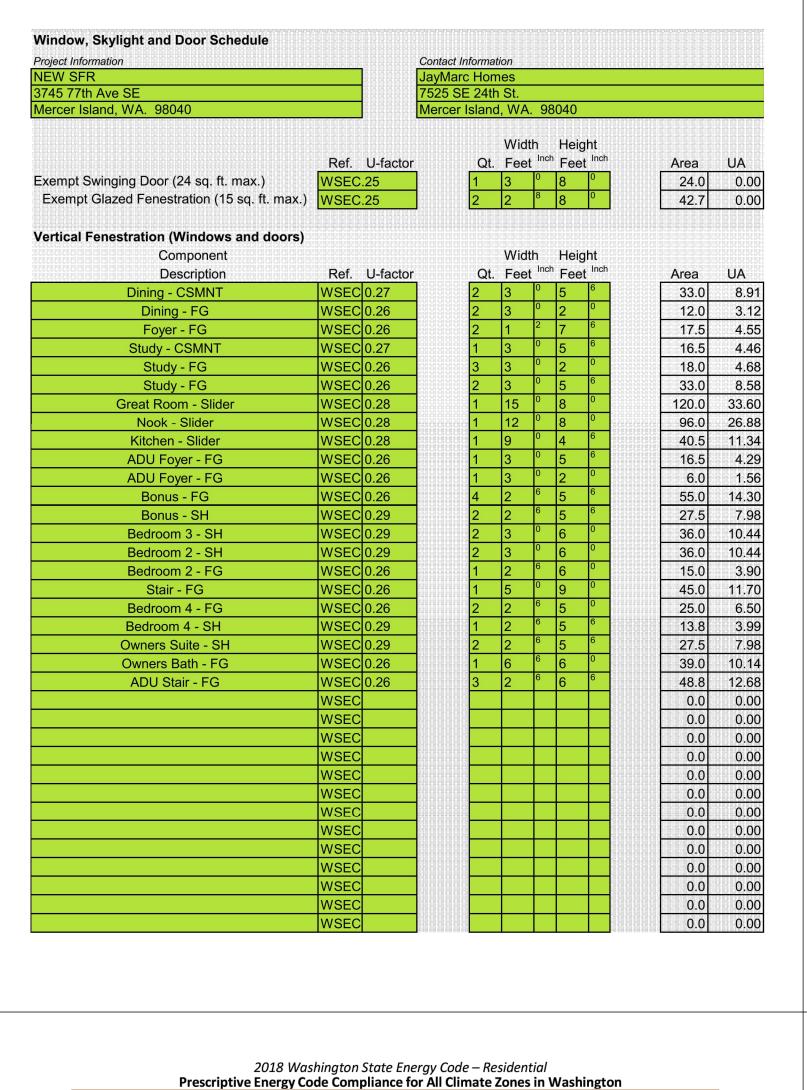
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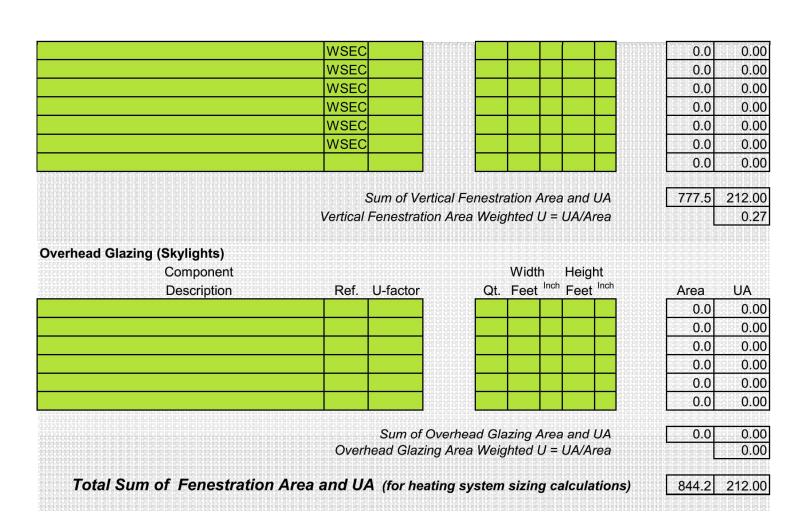
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STRUCTURAL DETAIL

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SD.01





2018 Washington State Energy Code – Residential

Prescriptive Energy Code Compliance for All Climate Zones in Washington

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

maximum tested building air leakage, and show the qualifying ventilation system and its control sequence

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.

credits. To claim this credit, the building permit drawings shall specify the option selected and the

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

Summary of Table R406.2

Credits - select ONE

heating option

Credits - select ONE

energy option from each

0

0.0

1.0

-1.0

0.5

-1.0

0.5

1.0

User Notes

Single Family – New & Additions (effective February 1, 2021)

Simple Heating System Size: Washington State his heating system sizing calculator is based on the Prescriptive Requirements of the 2018 Washington State Energy Code (WSEC) and ACCA 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 energycode@energy.wsu.edu or (360) 956-2042 for assistance. n Redman - JayMarc Homes lercer Island, WA Heat Pump Heating System Type: 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) **Average Ceiling Height** Conditioned Volume Instructions Average Ceiling Height (ft) 35,361 **Glazing and Doors U-Factor** 0.280 1,304 U-Factor Area = UA Instructions 0.50 Insulation U-Factor X 0.026 Single Rafter or Joist Vaulted Ceilings No selection Above Grade Walls (see Figure 1) U-Factor X 0.056 U-Factor Instructions 0.025 Below Grade Walls (see Figure 1) U-Factor 0.042 Slab Below Grade (see Figure 1) F-Factor X Length 0.303 No Slab Below Grade in this project. Slab on Grade (see Figure 1) F-Factor X No Slab on Grade in this project. Location of Ducts Duct Leakage Coefficient 729.73 Sum of UA 32,838 Btu / Hour Envelope Heat Load Sum of UA $x \Delta T$ 17,185 Btu / Hour Air Leakage Heat Load Volume $x = 0.6 \times \Delta T \times 0.018$ **Building Design Heat Load** 50,023 Btu / Hour Air leakage + envelope heat loss Building and Duct Heat Load 50,023 Btu / Hour Ducts in unconditioned space: sum of building heat loss x 1.10 Ducts in conditioned space: sum of building heat loss x 1 Maximum Heat Equipment Output 62.529 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)

	Summary of Table R406.2 (cont.)				
Energy Options	Energy Credit Option Descriptions (cont.)	energy or	elect ONE tion from tegory d	User Notes	
5.1 ^d	Efficient Water Heating	0.5			
5.2	Efficient Water Heating	0.5	0		
5.3	Efficient Water Heating	1.0	0		
5.4	Efficient Water Heating	1.5	0		
5.5	Efficient Water Heating	2.0	•		
5.6	Efficient Water Heating	2.5	0		
6.1 ^e	Renewable Electric Energy (3 credits max)	1.0			
7.1	Appliance Package	0.5			
	Total Credits		6.5	Calculate Total Clear Form	

- 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.

Please print only pages 1 through 3 of this worksheet for submission to your building offi

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
New SFR	Ryan Redman - JayMarc Homes
3745 77th Ave Se, Mercer Island, WA.	7525 SE 24th St., Mercer Island, WA. 98040

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 Ryan Redman Digitally signed by Ryan Redman Date: 2021.03.29 10:47:19 -07'00' Date 02/15/2022

All Climate Zones (Table R402.1.1)				
	R-Value ^a	U-Factor ^a		
Fenestration U-Factor ^b	n/a	0.30		
Skylight U-Factor ^b	n/a	0.50		
Glazed Fenestration SHGC b,e	n/a	n/a		
Ceiling ^e	49	0.026		
Wood Frame Wall ^{g,h}	21 int	0.056		
Floor	30	0.029		
Below Grade Wall ^{c,h}	10/15/21 int + TB	0.042		
Slab ^{d,f} R-Value & Depth	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.
- 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 insulation.

1.3 Efficient Building Envelope 0.5 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 2.3 Air Leakage Control and Efficient Ventilation 1.5 0 2.4 Air Leakage Control and Efficient Ventilation 3.1^a High Efficiency HVAC 1.0 1.0 3.2 High Efficiency HVAC 3.3^a High Efficiency HVAC 1.5 3.4 High Efficiency HVAC 1.5 3.5 High Efficiency HVAC 3.6^a High Efficiency HVAC 0.5 4.1 High Efficiency HVAC Distribution System 4.2 High Efficiency HVAC Distribution System

2018 Washington State Energy Code-R

7525 SE 24th St., 487

Mercer Island, WA 98040

425.266.9100

☐ ☐ Issue Issue Date By ☐ Description	

plan name: marketing name: XXXXX plan number: -mark sys. number:--

Conditions not specifically represented graphically or in writing or which conflict with the 2015 International Residential Code (IRC.) and/or those of the local municipality then the current standards and requirements of each respectively shall govern.

The drawings in this set are instruments of service and shall remain the property of JayMarc

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Homes, LLC.

Submittal Date

Sheet Title/Description

Design Firm

Drawn by:

Checked by:

1/4"=1'-0" (48) Primary Scale



Prescriptive Path - Single Family

2018 Washington State Energy Code-R

Prescriptive Path – Single Family

of operation.

1. Small Dwelling Unit: 3 credits

2. Medium Dwelling Unit: 6 credits

3. Large Dwelling Unit: 7 credits

5 All other heating systems

1.1 2ffmm?????mdm?????mm??

1.2 Efficient Building Envelope

2 Heat pump^c

All dwelling units that are not included in #1 or #3

4. Additions less than 500 square feet: 1.5 credits

All other additions shall meet 1-3 above

1 Combustion heating minimum NAECAb

3 Electric resistance heat only - furnace or zonal

4 DHP with zonal electric resistance per option 3.4

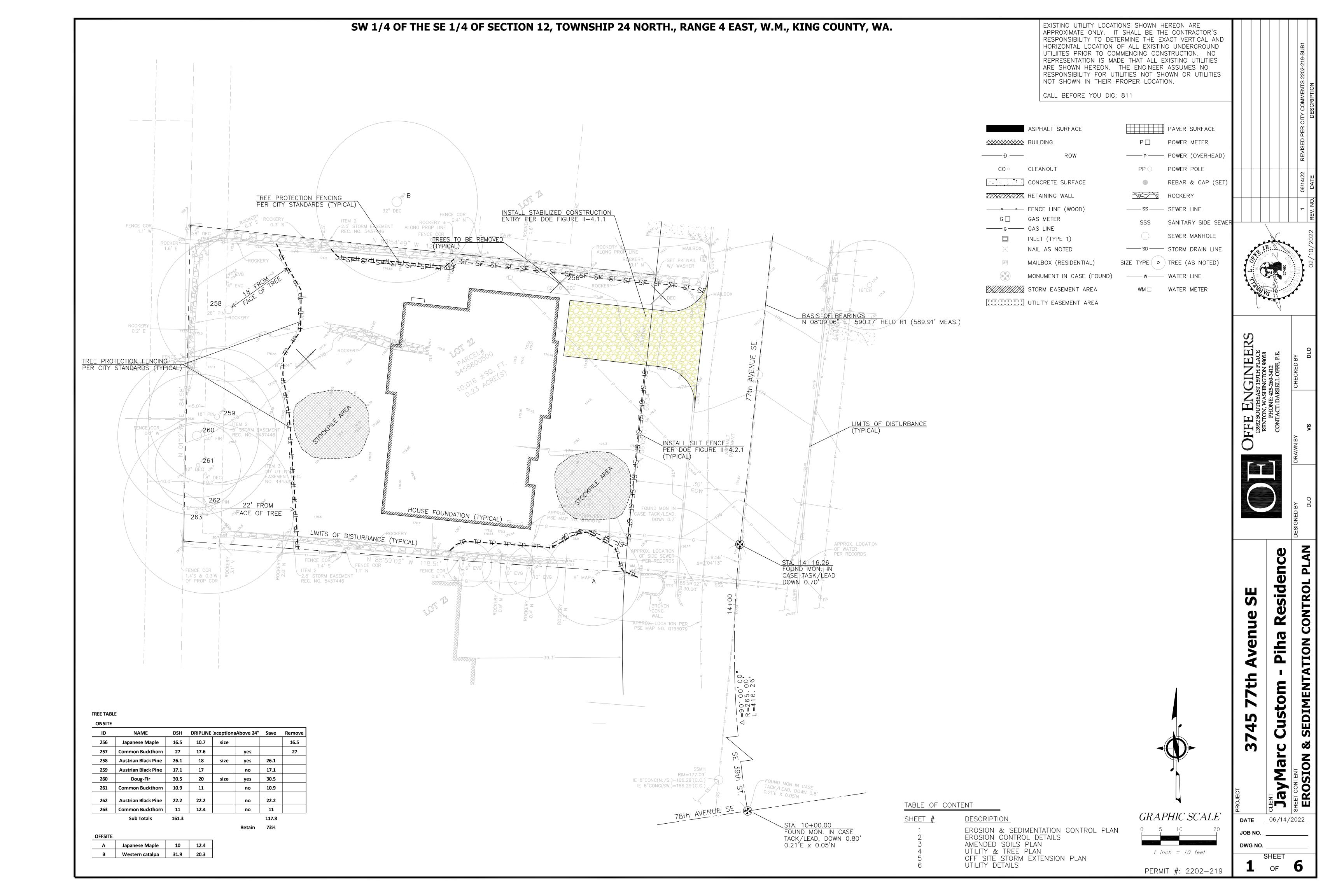
Dwelling units exceeding 5,000 sf of conditioned floor area

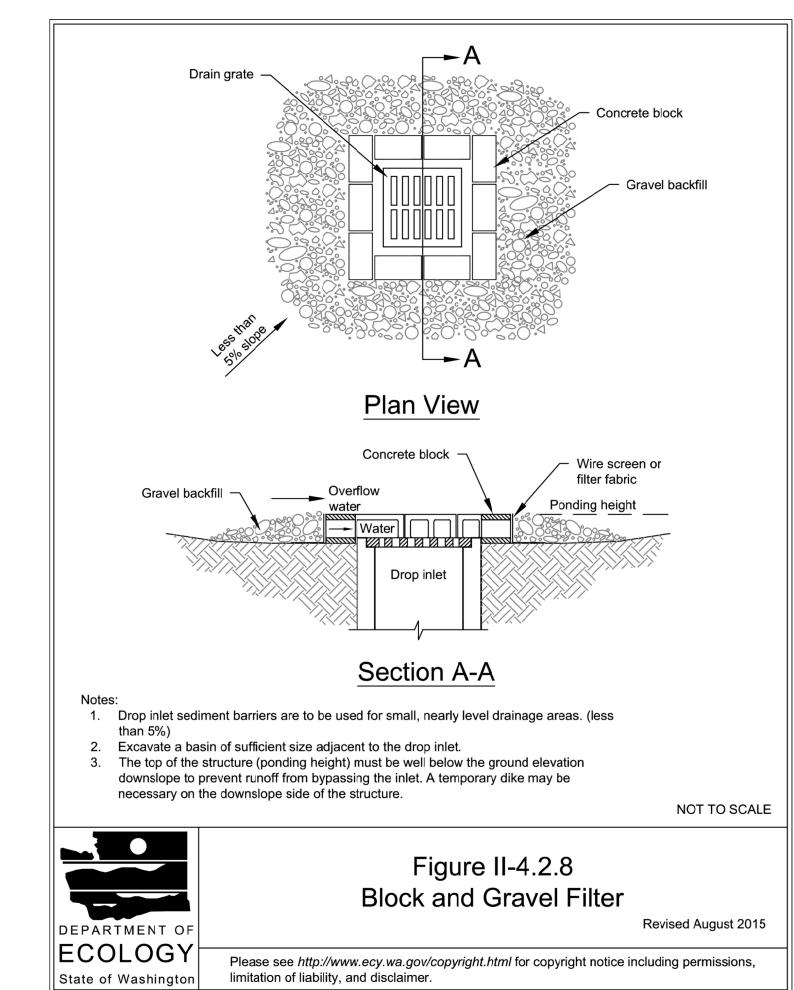
Fuel Normalization Descriptions

Energy Credit Option Descriptions

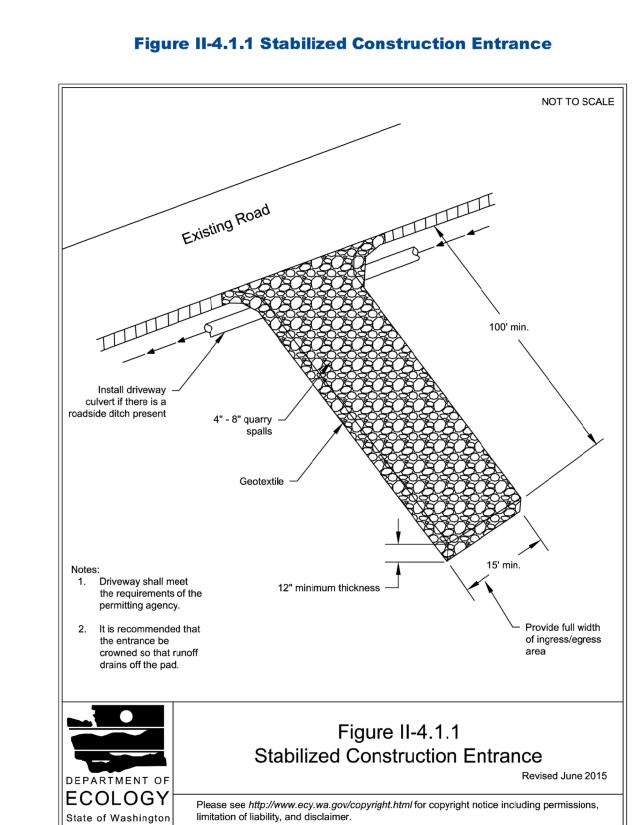
2018 Washington State Energy Code-R

Prescriptive Path - Single Family



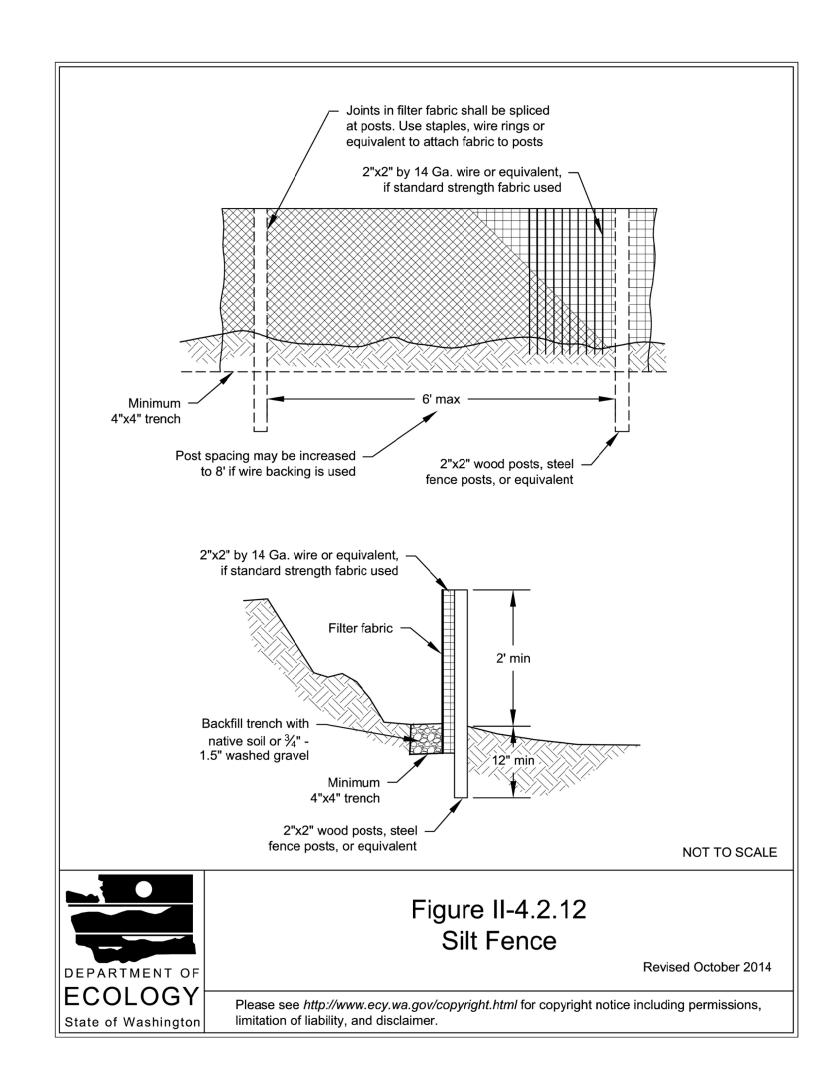


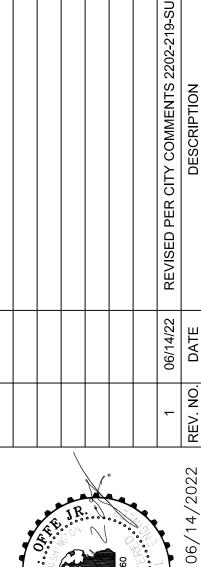




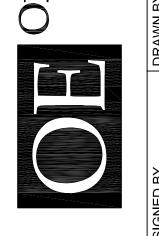
2014 Stormwater Management Manual for Western Washington

Volume II - Chapter 4 - Page 273



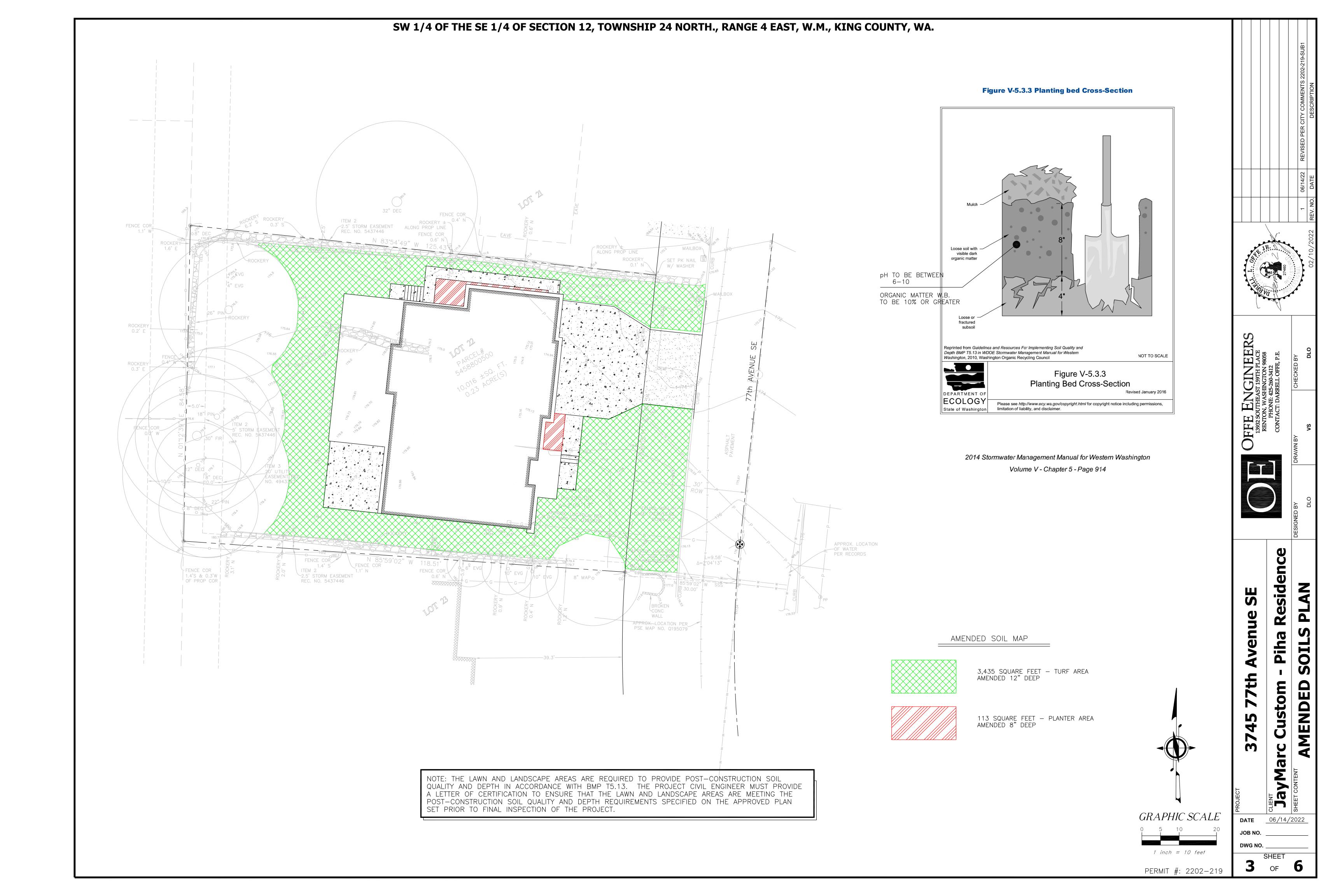


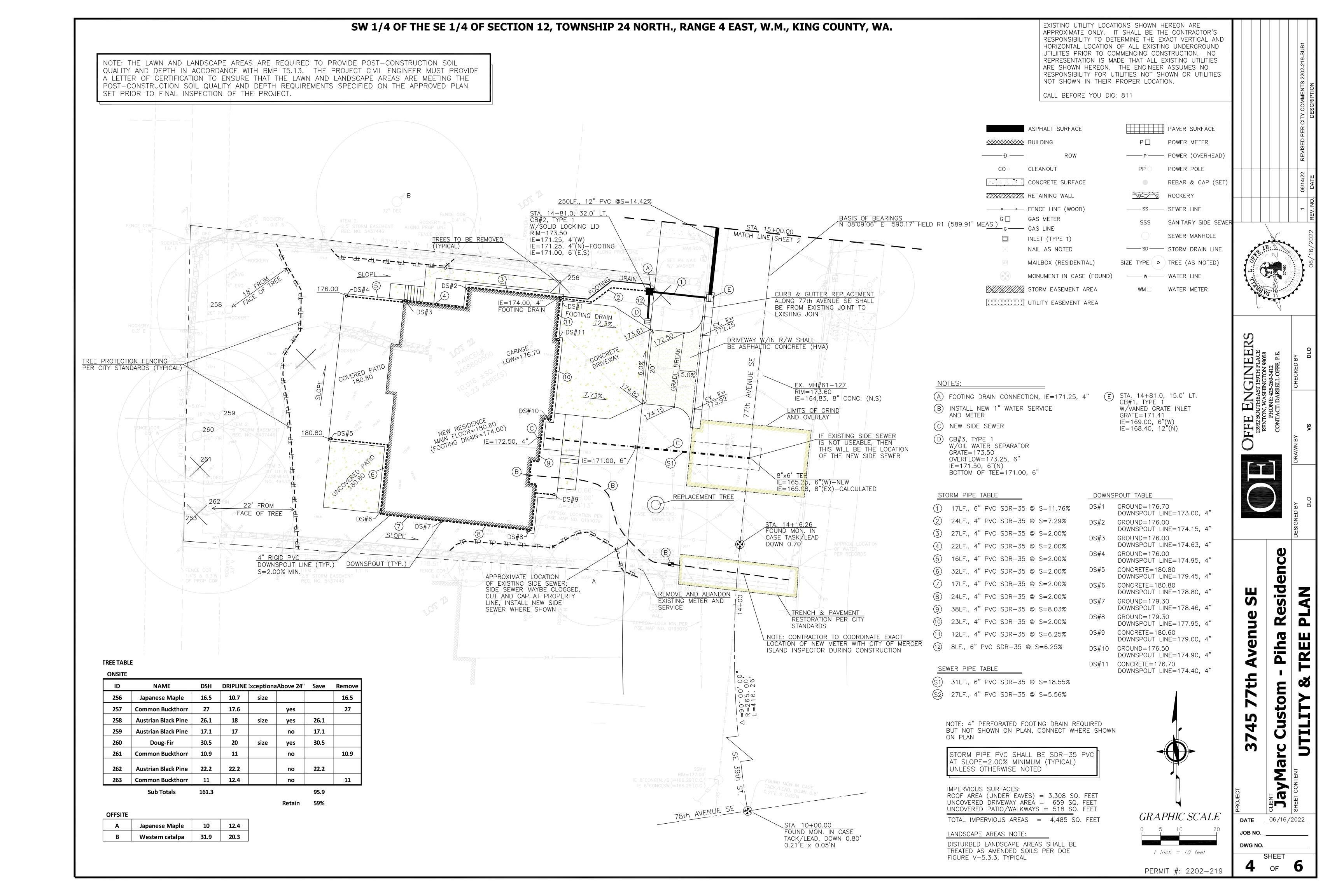
OFFE ENGINEERS
13932 SOUTHEAST 159TH PLACE
RENTON, WASHINGTON 98058
PHONE: 425-260-3412
CONTACT: DARRELL OFFE, P.E.

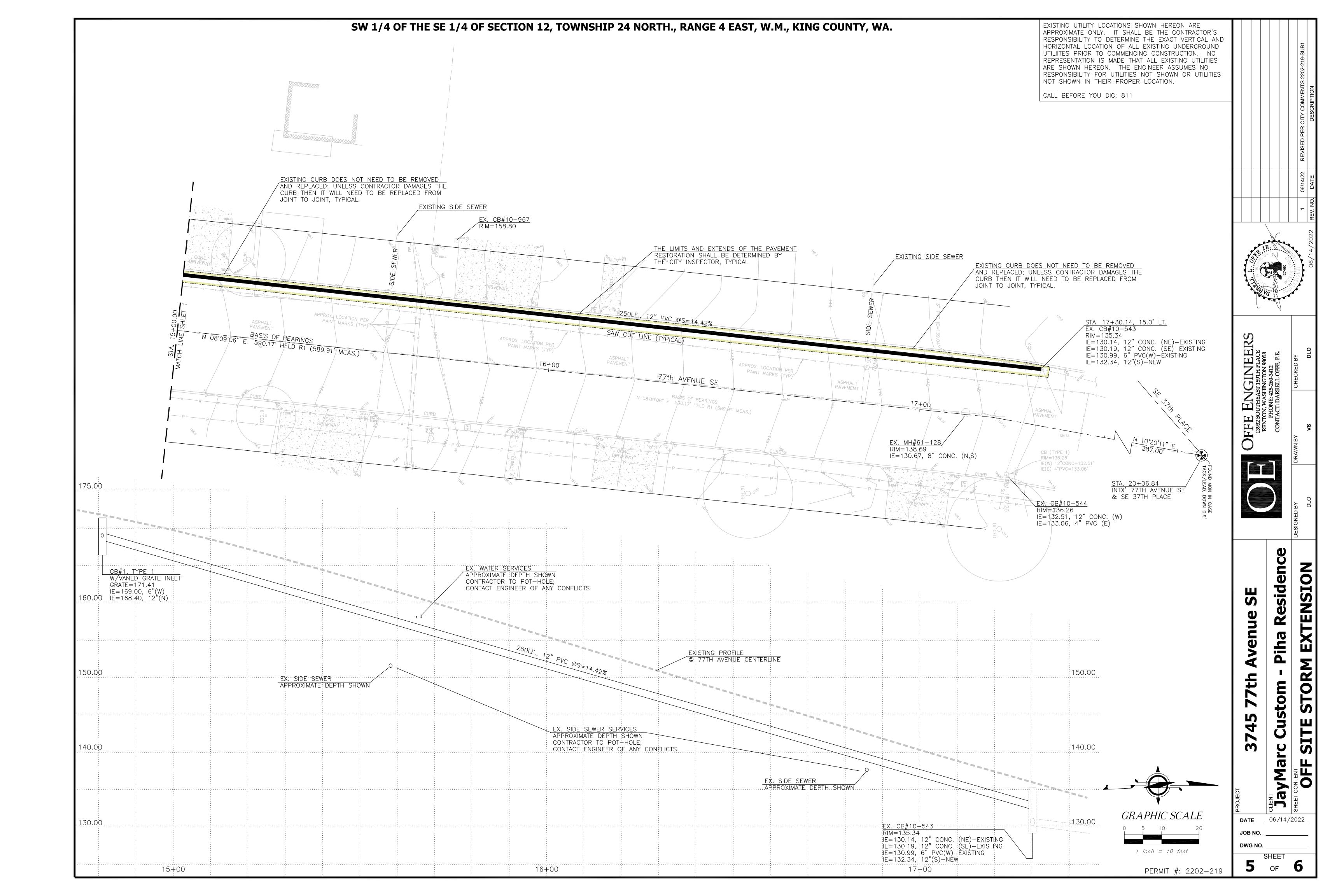


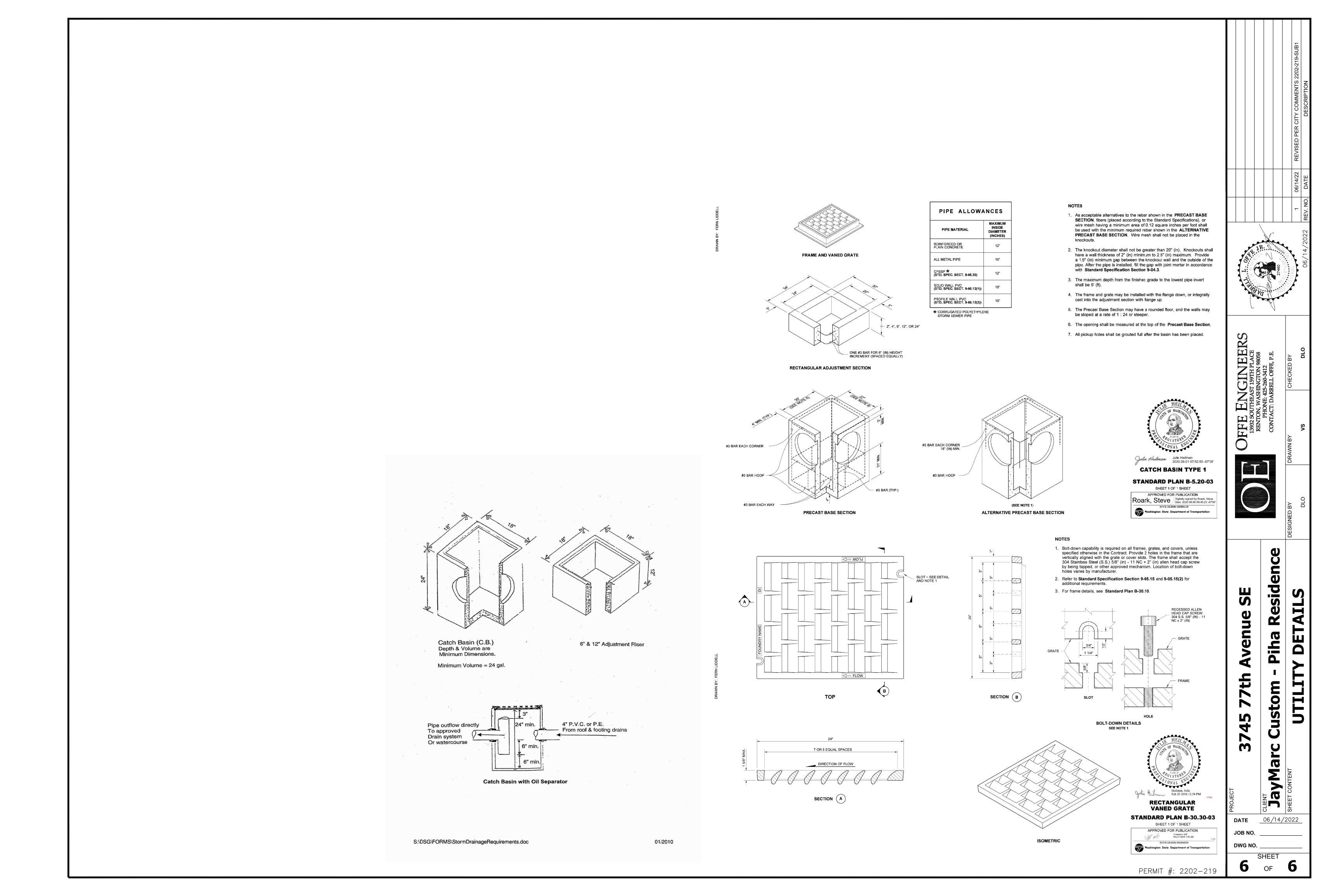
77th Avenue SE tom - Piha Residence

3745 77th Aver JayMarc Custom - Piha









SHEET NUMBER

1 OF 2

OTHER DESIGN OR CONSTRUCTION PARAMETERS MUST BE DISCUSSED AND APPROVED

BY THE REVIEWING AGENCY BEFORE ANY CONSTRUCTION CAN OCCUR.

RANGE: <u>04E, W.M.</u>

COUNTY: KING

