8434 SE 39th St
MERCER ISLAND, WA - 98040

GENERAL INFORMATION
APPLIES FULL 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 ADVANCED FRAMING w/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 w/CEMENTITIOUS BACKER BOARD and MOISTURE RESISTANT UNDERLAYMENT per IRC, R702.4.2 UNDERLAYMENT AT TUB & SHOWER WALLS SHALL BE TO A HEIGHT OF +72" MIN. ABOVE DRAIN INLET per IRC, R307.2

I. ALL SHOWERS TO COMPLY w/IRC, P2708.1 through P2708.5 ALL SHOWER RECEPTORS TO COMPLY w/IRC, P2709.1 through P2709.4

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 R311 & R312

K. ALL REQUIREMENTS FOR BUILDING ENVELOPE TO COMPLY WITH THE 2015 WASHINGTON STATE ENERGY CODE (WSEC). SEE REQ'D ENERGY CREDITS ON THIS SHEET ALONG w/SHEETS A11 & A12 FOR PRESCRIPTIVE REQUIREMENTS and COMPLIANCE NOTES FOR SINGLE FAMILY RESIDENTIAL IN CLIMATE ZONE 5 and MARINE 4.

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 INSITION SOURCES TO BE min. 18" ABV. GARAGE FLOOR per IRC, M1307.3

O. PROVIDE FIREBLOCKING TO CUT OFF DRAFT OPENINGS AT LOCATIONS w/MATERIALS per IRC, R302.11. 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 7¾" - 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 EXT. WALLS.

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

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 DESTROYING GLASS per IRC, R308.1

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

1. 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, R310.1

- 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, 312.2.1
- 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 R311.7.4 INCLUDING:

- SHALL PROVIDE A MIN. CLEAR WIDTH OF 36" ABOVE HANDRAIL w/MAX. HANDRAIL PROJECTION INTO STAIRWAY OF 4½" ON EITHER SIDE per R311.7.1
- SHALL PROVIDE A MIN. HEADROOM OF 6'-8" MEASURED VERTICALLY FROM THE NOSE OF TREADS or LANDINGS per R311.7.2
- SHALL NOT HAVE A VERTICAL RISE GREATER THAN 147" BTWN. FLOOR LEVELS or LANDINGS per R311.7.3
- SHALL MEET THE WALKLINE REQUIREMENTS AT WINDER TREADS per R311.7.4
- SHALL HAVE A MAX. RISER HEIGHT OF 7¾" and HAVE A MIN. TREAD DEPTH OF 10" THE GREATEST DIMENSION OF ANY RISER or TREAD MUST NOT EXCEED THE SMALLEST DIMENSION BY MORE THAN ⅜". TREADS LESS THAN 11" SHALL MEET NOSING REQUIREMENTS. THE OPENINGS AT OPEN RISERS SHALL NOT PERMIT THE PASSAGE OF A 4"ø SPHERE per R311.5.1 through R311.5.4
- 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" ABV. LINE CONNECTING NOSINGS, HAVE MIN. 1½" 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 R312.2 INCLUDING:

- ALONG OPEN-SIDED WALKING SURFACES, INCLUDING STAIRS, RAMPS and LANDINGS LOCATED 30" or GREATER ABOVE ADJACENT FLOOR LEVEL per IRC, 312.1.1
- OPENINGS MUST PREVENT THE PASSAGE OF A 4" SPHERE or 4⅜" AT OPEN SIDES OF STAIRS or 6" AT TRIANGLE OF TREAD, RISER & BOTTOM RAIL per R312.1.3
- 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 200lbs. IN ANY DIRECTION ALONG THE TOP and GUARD INFILL MUST RESIST A 50lb. LOAD APPLIED HORIZ. OVER 1 Sq.Ft. per IRC, TABLE R301.5

ALARMS

SMOKE ALARMS and CARBON MONOXIDE ALARMS REQUIRED IN ALL NEW DWELLINGS SHALL MEET REQUIREMENTS and EXCEPTIONS OF NFPA 72, IRC, R314 and R315.

- 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 :
  1. 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 SHOWER.
  5. NOT NEAR COOKING APPLIANCES per R314.3.1
- SMOKE ALARMS SHALL BE INTERCONNECTED per R314.4
- CARBON MONOXIDE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS per R315.3 :
  1. 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 ATTACHED BATH.
- 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 ALARMS per R314.5 and R315.4.

FIRE PROTECTION

INSTALLATION OF A NFPA 13D FIRE SPRINKLER SYSTEME IN COMPLIANCE WITH NFPA 13D AND CoMI STANDARDS SHALL BE INSTALLED THROUGHTOUT THE RESIDENCE. A SEPARATE FIRE PERMIT IS REQUIRED. A NFPA 72 - CHAPTER 29 MONITORED FIRE ALARM SYSTEM IN COMPLIANCE WITH NFPA 72 AND CoMI STANDARDS SHALL BE INSTALLED THROUGHOUT THE RESIDENCE. A SEPARATE FIRE PERMIT IS REQUIRED.

ABBREVIATIONS

#	Pound OR Number	ELEC	Electrical	MC	Medicine Cabinet	SLB	Slab
&	And	ELEV	Elevation	MDO	Medium Density Overlay	SPEC	Specification
@	At	EQ	Equal	MECH	Mechanical	SQ	Square
A/C	Air Conditioner	EW	Each Way	MED	Medium	SQ IN	Square inches
AB	Anchor Bolt	EXC	Excavate	MEMB	Membrane	SQFT	Square feet
ABV	Above	EXH	Exhaust	MFR	Manufacturer	STC	Sound Transmission Coefficient
AD	Area Drain	EXIST	Existing	MIN	Minimum	STD	Standard
ADDL	Additional	EXT	Exterior	MIR	Mirror	STL	Steel
ADH	Adhesive	FBD	Fiberboard	MISC	Miscellaneous	STR	Structural
ADJ	Adjustable	FCB	Fiber Cement Board	MLB	Micro Laminate Beam	STRUCT	Structure or Structural
AFF	Above Finish Floor	FCO	Floor clean out	MMB	Membrane	SY	Square yard
AGG	Aggregate	FD	Floor drain	MTL	Metal	T	Tread
ALT	Alternate	FIN	Finish	MWK	Millwork	T&G	Tongue and Groove
ALUM	Aluminum	FIXT	Fixture	NIC	Not in Contract	TEL	Telephone
ANC	Anchor	FLOR	Fluorescent	NO	#	TEMP	Tempered
APX	Approximate	FLR	Floor	NO	Number	TK	Tight Knot
ASPH	Asphalt	FLSH	Flashing	NOM	Nominal	TME	To Match Existing
AUTO	Automatic	FND	Foundation	NTS	Not to Scale	TO	Top Of
AVR	Average	FO	Face Of	O	Non-Operable Window Section	TOB	Top of Beam
AWG	American Wire Gauge	FOC	Face of Concrete	OBS	Obscure	TOC	Top of curb/ Top of Concrete
AWN	Awning	FOM	Face of Masonry	OC	On Center	TOF	Top of footing
B/O	By Others	FOS	Face of Studs	OD	Outside Diameter	TOJ	Top of joist
BD	Board	FOW	Face of Wall	OH	Overhang	TOW	Top of wall
BLDG	Building	FPL	Fireplace	OP	Opaque	TP	Toilet Paper Hanger
BLKG	Blocking	FRM	Frame(ing)	OPG	Opening	TYP	Typical
BLW	Below	FRPF	Fireproof	OPNG	Opening or Rough Opening	UNO	Unless Noted Otherwise
BM	Beam	FT	Foot	OSB	Orientated Strand Board	VB	Vapor barrier
BOF	Bottom of footing	FTG	Footing	PBD	Particle Board	VERT	Vertical
BOT	Bottom	FUR	Furred	PBF	Prefabricated	VIF	Verify in field
BOW	Bottom of wall	GA	Gauge	PERF	Perforate(d)	W/	With
BR	Bedroom	GALV	Galvanized	PL	Property Line	W/O	Without
BSMT	Basement	GFCI	Ground Fault Circuit Interrupt	PLAM	Plastic Laminate	WC	Toilet (water closet)
BTW	Between	GFI	Ground Fault Interrupt	PLT	Plate	WD	Wood
BYND	Beyond	GL	Glass	PLYWD	Plywood	WDW	Window
CAB	Cabinet	GLB	Glue Laminated Beam	PNT	Paint or Painted	WH	Water Heater
CAS	Casement	GLBK	Glass Block	PSF	Pounds Per Square Foot	WIC	Walk-In Closet
CB	Catch Basin	GWB	Gypsum Wall Board	PSI	Pounds Per Square Inch	WP	Water Proofing
CLG	Ceiling	GYP	Gypsum	PT	Pressure Treated	WP	Weatherproof
CLR	Clear	HB	Hose Bib	PVC	Polyvinyl Chloride	WR	Weather Resistant
CMU	Concrete Masonry Unit	HC	Hollow Core	PVMT	Pavement	WRB	Weather Resistive Barrier
CO	Clean Out	HDR	Header	R	Riser	WWF	Welded Wire Fabric
COL	Column	HDWR	Hardware	R&S	Rod and Shelf	X	Operable Window Section
CONC	Concrete	HT	Height	RC	Reinforced Concrete		
CONT	Continuous	HVAC	Heat-Vent-Air Conditioning	RD	Rod		
CRPT	Carpet	HW	Hot water	RD	Roof Drain		
CT	Ceramic Tile	ID	Inside Diameter	RDL	Roof drain leader		
CTYD	Courtyard	IL0	In Lieu Of	REBAR	Reinforcing Bar		
CU FT	Cubic Feet	IN	Inch	REFR	Ref		
CU YD	Cubic Yard	INCL	Include	REG	Register		
DBL	Double	INS	Insulate(tion)	RENF	Reinforced		
DEMO	Demolish or Demolition	INSUL	Insulation	REQ	Required		
DH	Double Hung	INT	Interior	REQD	Required		
DIA	Diameter	J-Box	Junction box	REV	Revision		
DIM	Dimension	JNT	Joint	RFG	Roofing		
DN	Down	JST	Joist	RM	Room		
DP	Damp proofing	KD	Kiln Dried	RO	Rough Opening		
DR	Door	KIT	Kitchen	ROW	Right of way		
DRWR	Drawer	LAM	Laminate(d)	SA	Supply Air		
DS	Downspout	LAV	Lavatory	SCH	Schedule		
DT	Drain Tile	LB	Pound	SCN	Screen		
DW	Dishwasher	LF	Lineal Feet	SD	Smoke detector		
DWG	Drawing	LL	Live Load	SECT	Section		
EA	Each	LT	Light	SGD	Sliding Glass Door		
EF	Exhaust fan	LTG	Lighting	SH	Shelf		
EJ	Expansion Joint	LVL	Laminated Veneer Lumber	SHTH	Sheathing		
EL	Elevation	LVR	Louver	SIM	Similar		
		MAS	Masonry	SIM	Similar		
		MAX	Maximum				
		MBR	Member				

BUILDING CODES FOR THIS SET

CITY OF MERCER ISLAND CODES AT THE DATE OF THIS DRAWING SET:

2018 INTERNATIONAL BUILDING CODE (IBC)
2018 INTERNATIONAL RESIDENTIAL CODE (IRC)
2018 WASHINGTON STATE ENERGY CODES
2009 ICC A117.1, BARRIER-FREE STANDARD
2018 INTERNATIONAL FIRE CODE (IFC)
2017 NATIONAL ELECTRIC CODE (NEC)
2018 UNIFORM PLUMBING CODE (UPC)
2018 INTERNATIONAL MECHANICAL CODE (IMC)
2018 INTERNATIONAL FUEL GAS CODE (IFGC)
2018 POOL AND SPA CODE

PROJECT TEAM

ARCHITECTURAL DESIGN -
JAYMARCH HOMES

ARCHITECTURAL DRAFTING
JAYMARC HOMES - 425.226.9100 - JAYMARCHOMES.COM
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RICHARD ZABEL - RZABEL@MULHERNKULP.COM

SHEET INDEX

SQUARE FOOTAGE SUMMARY

BASEMENT LIVING AREA	702	S.F.
BASEMENT ADU AREA	344	S.F.
LESS BASEMENT EXCLUSION	-1006	S.F.
NET BASEMENT	90	S.F.
MAIN FLOOR LIVING AREA	1,573	S.F.
2 CAR GARAGE	475	
TOTAL MAIN FLOOR	2,048	S.F.
UPPER FLOOR AREA	1,621	S.F.
TOTAL NET AREA	3,758	S.F.
STAIR DEDUCTIONS	-208	S.F.
TOTAL FAR PROPOSED	3521	S.F.
MAXIMUM FAR; LOT AREA	17,100	S.F.
MAXIMUM FAR 40% + ADU = 6,840 + 344 =	7,234	S.F.
COV'D PORCH	27	

Updated : 12.08.20

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

COVER SHEET
1/4" = 1'-0"

Sheet Title/Description

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

△ Issue	Issue Date	By
Description		

8434 SE 39th ST.
Mercer Island, WA.
Job Number: JMC0025

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

12.13.23
Submittal Date

Sheet Title/Description

JAYMARC HOMES
Design Firm

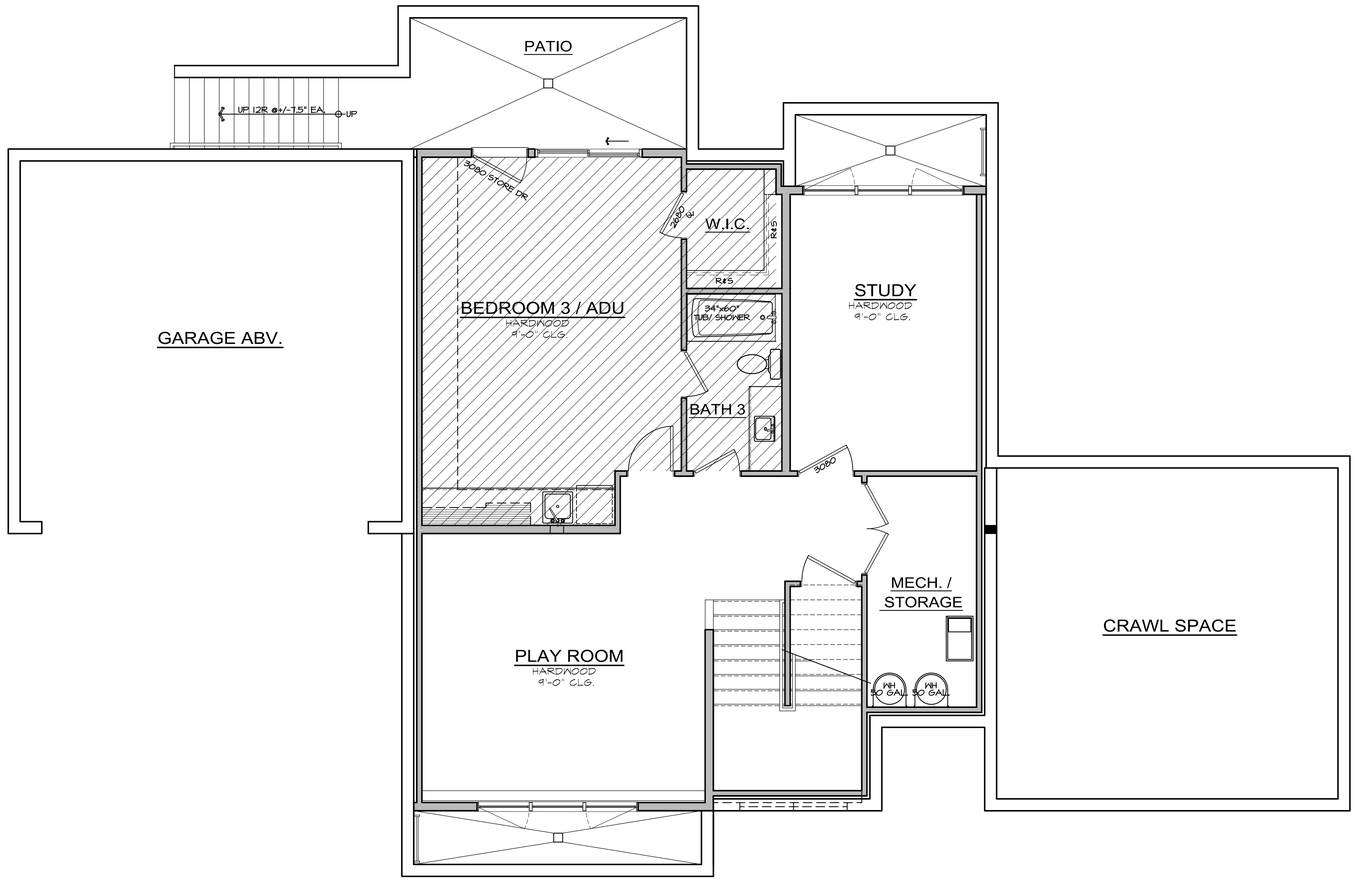
R.K.N.
Drawn by:

....
Checked by:

Primary Scale

A1
of: .

Sheet Title/Description



HATCH REPRESENTS A.D.U. UNIT AND LOCATION TO BUILDING ENVELOPE

LOWER FLOOR PLAN

1/4" = 1'-0"

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

Issue	Issue Date	By	Description
△			

8434 SE 39th ST.
Mercer Island, WA.
Job Number: JMC025

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

12.13.23
Submittal Date

Sheet Title/Description

JAYMARC HOMES
Design Firm

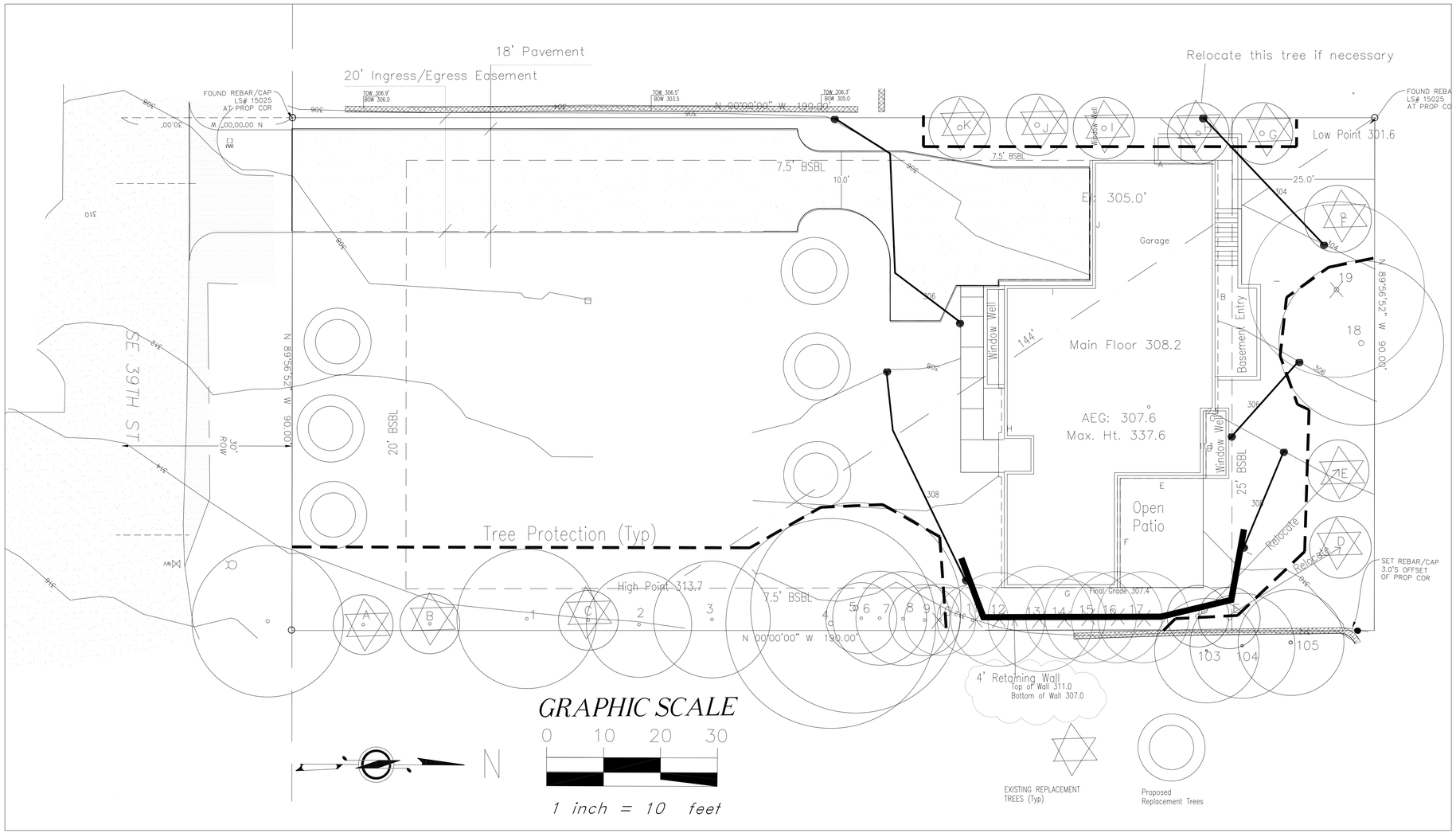
R.K.N.
Drawn by:

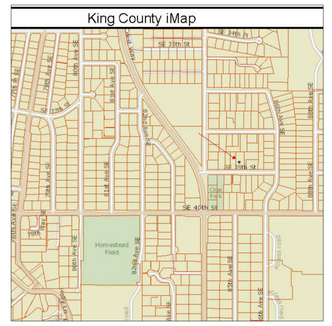
....
Checked by:

.
Primary Scale

A1.1
of: .

Sheet Title/Description





Vicinity Map

PROPERTY OWNER
Chinmay Dubey & Namrata Dwivedi

STREET ADDRESS
8434 SE 39th, Mercer Island, WA 98040

PARCEL #
5021900691

LEGAL DESCRIPTION
The West Half of Lot 17 and all of Lot 18, Block 6.

Madrona Crest Addition. Vol 42, Page 12.
BOOK OF PLATS, KING COUNTY, WA

ZONE: R-8.4

SETBACKS:
Front Yard - 20'
Rear Yard - 25'
Side Yards - 7.5'/15'
HEIGHT LIMIT; 30' above ABE to roof peak
MAXIMUM LOT COVERAGE: 40%
MAXIMUM HARDSCAPE: 9%
MAXIIUM FAR: 40%
PARKING SPACES PROVIDED: 2 GARAGE 2 DRIVEWAY

8434 SE 29th Tree Table

Tree ID	Common Name	DBH	Multi	Health	Structural Condition	Dripline	Tree Size Category	Retain?
1	Crabapple	11.7	Yes	1	1	12.0	Sig	Yes
2	Fruiting Pear	5		1	2	9.0	Small	Yes
3	Crabapple	8		1	2	10.0	Sig	Yes
4	Pacific Dogwood	10.5		2	1	18.0	Exc	Yes
5	Pacific Dogwood	11.5		2	1	18.0	Exc	Yes
6	Japanese Cedar	7.8	Yes	1	2	6.0	Small	Yes
7	Japanese Cedar	7.6	Yes	1	2	8.0	Small	Yes
8	Japanese Cedar	7	Yes	1	2	7.0	Small	Yes
9	Japanese Cedar	6.7	Yes	1	2	6.0	Small	Yes
10	Japanese Cedar	8.9	Yes	1	2	6.0	Small	No
11	Japanese Cedar	11.3	Yes	1	2	6.0	Sig	No
12	Japanese Cedar	7	Yes	1	2	7.0	Small	No
13	Japanese Cedar	10.4	Yes	1	2	8.0	Sig	No
14	Japanese Cedar	10.3	Yes	1	2	8.0	Sig	No
15	Japanese Cedar	12.6	Yes	1	2	8.0	Sig	No
16	Japanese Cedar	8.5	Yes	1	2	9.0		No
17	Japanese Cedar	10	Yes	1	2	9.0	Sig	No
18	Mountain Ash	14	Yes	1	2	14.0	Sig	Yes
19	Red maple	17.4		1	1	15.0	Sig	No
	TOTALS							
OFFSITE								
101	Common Hawthorn	8.5	ROW			13.0	Sig	Yes
102	Common Hawthorn	NOT MAPPED		ROW		13.0	Sig	Yes
103	Bitter Cherry	?				OH 14	Sig	Yes
104	Bitter Cherry	?				OH 14	Sig	Yes
105	Bitter Cherry	?				OH 14	Sig	Yes

Previous Replacement Trees

Id	Common Name	DBH	Multi	Health	Structural Condition	Dripline	Tree Size Category	Retain?
A	Thunder Cloud Plum	1.5				5.0		Yes
B	Thunder Cloud Plum	1.5				5.0		Yes
C	Thunder Cloud Plum	1.5				5.0		Yes
D	Himalayan cedar	1.5				5.0		Yes
E	Himalayan cedar	1.5				5.0		Yes
F	Himalayan cedar	1.5				5.0		Yes
G	Thunder Cloud Plum	2				5.0		Yes
H	Himalayan cedar	2.5				5.0		Yes
I	Himalayan cedar	2				5.0		Yes
J	Himalayan cedar	2				5.0		Yes
K	Himalayan cedar	2				5.0		Yes
L	Thunder Cloud Plum	2				7.0		Yes

"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 19.02.020(F)(3)(a). 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."

LOT COVERAGE

Lot Area	17,100
Allowed	40%
Allowed sf	6,840
New	
Main Structure Roof Area	2,183
Driveway	2,590
New sf	4,773
Existing	
Main Structure Roof Area	2,098
Driveway	1,004
Auxillary Bldg	48
Total Existing	3,150
Existing Removed	3,150
Total New and Existing	4,773
%	27.9%

8434 SE 39th St Height Table

Wall Segment	Midpoint Elevation	Length	Product
A	304.5	24	7,308.0
B	305.5	44	13,442.0
C	306.5	2	613.0
D	306.5	11.3	3,463.5
E	307.5	17.5	5,381.3
F	307.5	19.5	5,996.3
G	307.5	20.4	6,273.0
H	307.5	53.2	16,359.0
I	305.5	16	4,888.0
J	305.5	21.8	6,659.9
	Sub Totals	229.7	70,383.9
	ABE		306.4
	Max Height		30.0
	Max Elevation		336.42

PARKING

Covered	2 ea
Driveway	2 ea.

Lot Slope Calculations

High Point	313.7	ft
Low Point	301.6	ft
Elevation Difference	12.1	ft
Distance	144	ft
Slope%	8.4%	

GROSS FLOOR AREA

Lot Size	17,100	
Basement	1096	sf
Less Basement Exclusion	-1006	sf
Main Floor Living	1,573	sf
Garage	475	sf
Second Floor Living	1,621	sf
Stair Credit	-208	
Total	3,551	sf
Proposed	20.8%	
Max Allowed: 40%	6,840	sf
Plus ADU	394	sf
Total	7,234	

Hardscape

Lot Size	17,100	
EXISTING		
Uncovered Patio	540	sf
Walkways	104	sf
Stairs	0	sf
Rockery/Retaining Walls	56	sf
Total Existing	700	sf
Existing Removed	700	sf
Net Existing Retained	0	sf
NEW		
Uncovered Patio	279.5	sf
Walk	152	sf
Rockery/Retaining Walls	40	sf
Window and Stairwells	288	sf
Total New	759.5	sf
Total Project	759.5	sf
Project %	4.44%	

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Mercer Island, WA 98040
425 281 2706

Dubay/Dwivedi Residence

8434 SE 39th St, Mercer Island

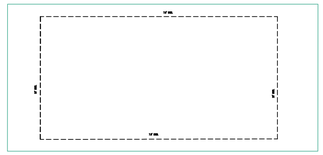
SITE PLAN

Drawn by GU

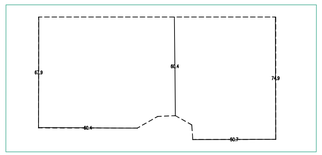
6/2/23

9/12/23

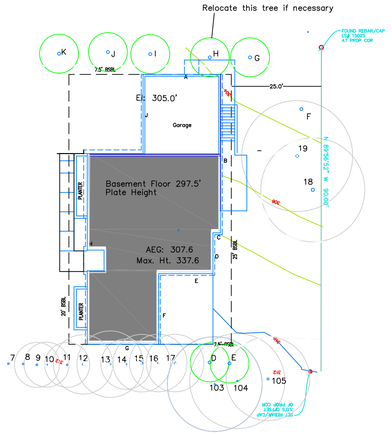
A2.0



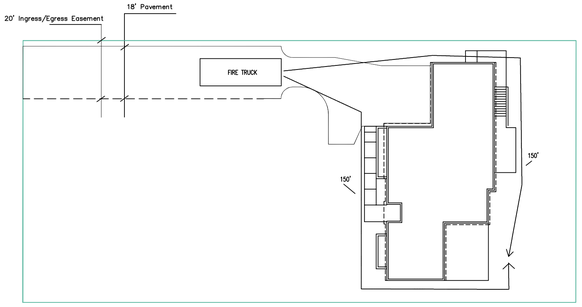
BUILDING SETBACKS



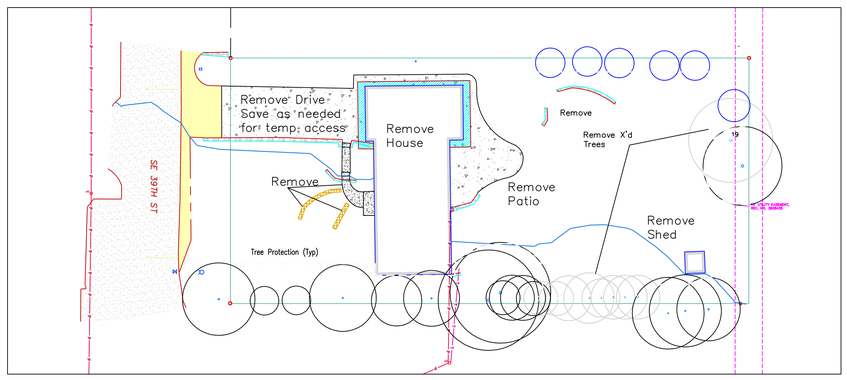
BUILDING PAD



BASEMENT EXCLUSION EXHIBIT



FIRE ACCESS EXHIBIT



DEMOLITION EXHIBIT

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Mercer Island, WA 98040
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Dubay/Dwivedi Residence

8434 SE 39th St, Mercer Island

SITE PLAN DETAILS

Drawn by
GU

6/2/23

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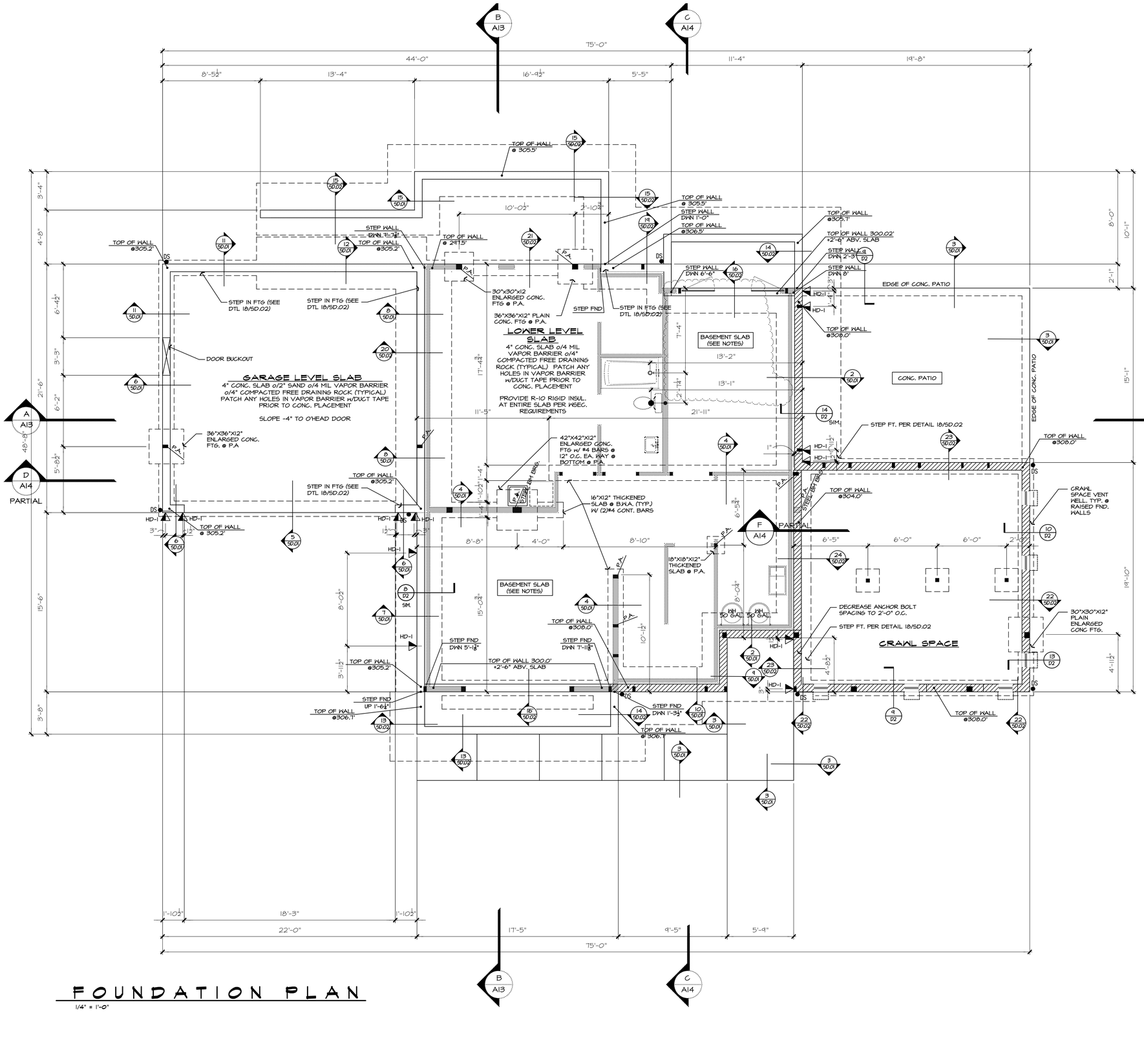

FOUNDATION PLAN

1/4" = 1'-0"

NOTES:

HOLD-DOWN SCHEDULE

SYMBOL	SPECIFICATION
HD-1	SIMPSON STHD14 (R.J) HOLD-DOWN
HD-5	SIMPSON CS16 STRAP TIE (14" END LENGTH)
HD-6	SIMPSON MSTC40 STRAP TIE (12" END LENGTH)
HD-7	SIMPSON MSTC66 STRAP TIE (24" END LENGTH)

LEGEND

- INTERIOR BEARING WALL
- EXTERIOR WALL ABOVE
- JL METAL HANGER
- INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- INDICATES HOLDOWN.

REFER TO S-0 FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

JAYMARC HOMES

7525 SE 24th St., 487
Mercer Island, WA
98040
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Issue	Issue Date	By	Description
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8434 SE 39th ST.
Mercer Island, WA.

Job Number: JMC025

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

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Submittal Date

Sheet Title/Description

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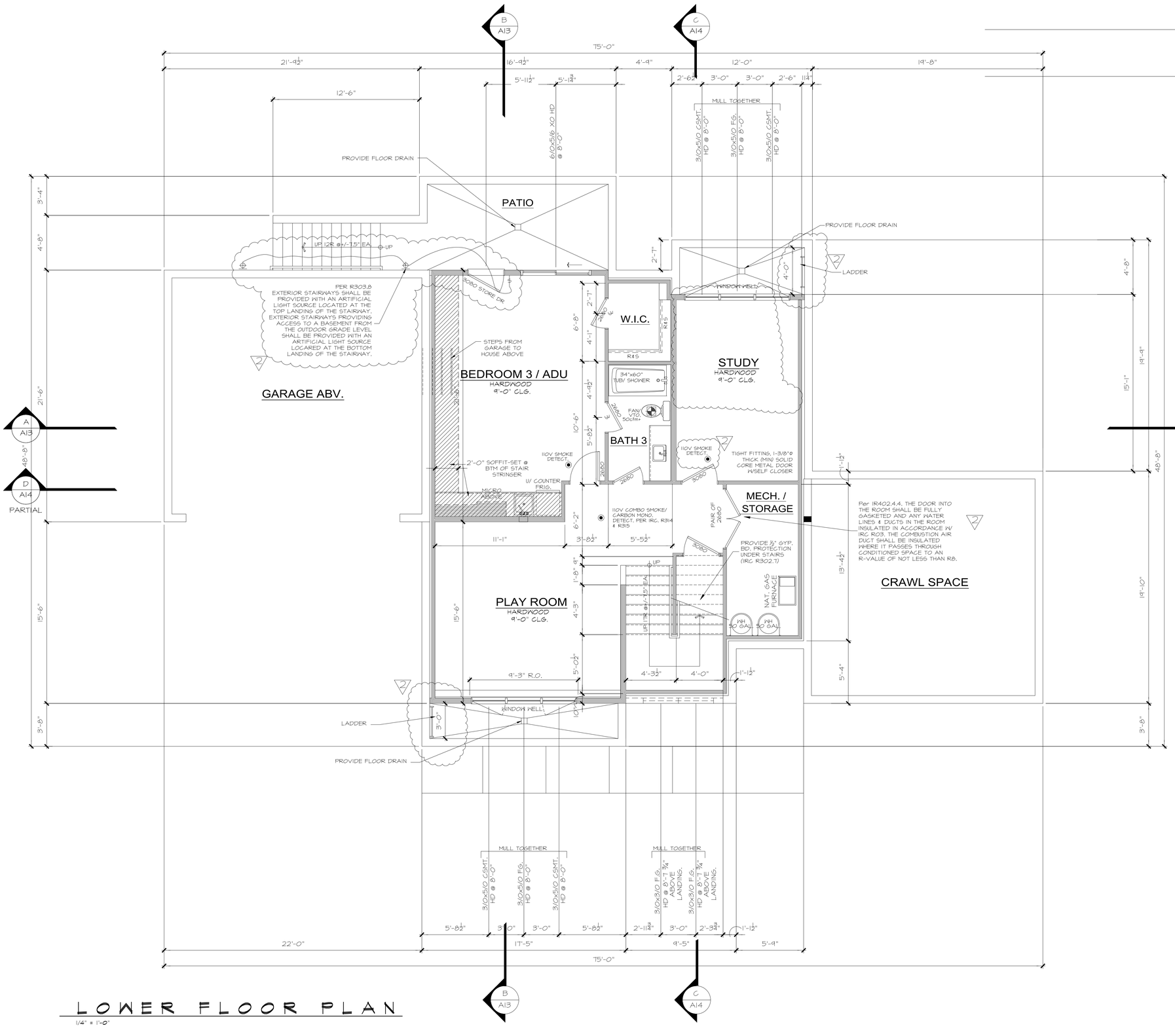
of: .

Sheet Title/Description



LOWER FLOOR PLAN

1/4" = 1'-0"

LOWER FLOOR PLAN NOTES

PLAN SPECIFIC 2018 WSEC, SECTION R06

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: 0.5 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 M1507.3 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

HVAC EQUIPMENT AND ASSOCIATED DUCT SYSTEM(S) INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF SECTION R403.3.7. 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.

HIGH EFFICENCY HVAC DISTRIBUTION OPT. 4.2: 1.0 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 5.4 1.5 CREDITS

WATER HEATING SYSTEM SHALL INCLUDE ONE OF THE FOLLOWING: ELECTRIC HEAT PUMP WATER HEATER MEETING THE STANDARDS FOR Tier I of NEEA's ADVANCED WATER HEATING SPECIFICATION. IF ONE WATER IS SERVING MORE THAN ONE DWELLING UNIT, ALL HOT WATER SUPPLY AND RECIRCULATION PIPING SHALL BE INSULATED WITH R-8 MINIMUM PIPE INSULATION.

WHOLE HOUSE VENTILATION

PROVIDE WHOLE HOUSE VENTILIATION per 2018 IRC, M1507 and IMC R403.8 USING LAUNDRY ROOM EXHAUST FAN INTEGRATED INTO FORCED ARE SYSTEM (FAU) PROVIDE OUTDOOR FREESH AIR via DUCTS CONNECTED TO THE RETURN SIDE OF THE AIR HANDLER.

SYMBOL	LOCATION	MIN. FAN REQUIREMENTS (ALL FANS VENT TO OUTDIDE)
A 50cfm+	BATH & POWDER	Min. 50cfm, INTERMITTENT at .025wg per TABLE M1507.4
	KITCHEN	Min. 100cfm, INTERMITTENT at .025wg per TBL. M1507.4
		RANGE HOOD or DOWN DRAFT EXHAUST FAN RATED at min. 100cfm, at 0.10wg MAY BE USED FOR EXHAUST FAN REQMT. EXHAUST HOODS IN EXCESS OF 400cfm, SHALL BE INTERLOCKED AND PROVIDE MAKE UP AIR per w/M1503.4
C 180cfm+ WHF	LAUNDRY ROOM	MIN. 360cfm, INTERMITTENT at .025wg TO FUNCTION AS WHOLE HOUSE FAN (WHF.)

MECHANICAL CONTRACTOR TO SIZE WHF, FAN and SET OPERATING TIMER per TABLE M1507.3.3(1) FOR A 3,001-4,500sf. DWELLING w/4-5 BEDRMS. TO OPERATE INTERMITTENTLY and CONTINUOSLY per TABLE M1507.3.3(2)

PROVIDE CONTROLS FOR WHF, per M1507.3.2 AFFIX LABEL TO CONTROLS THAT READS "WHOLE HOUSE VENTILATION - SEE OPERATING INSTRUCTIONS"

TOTAL MAIN FLOOR	2,048	S.F.
UPPER FLOOR AREA	1,621	S.F.
TOTAL NET AREA	3,159	S.F.
STAIR DEDUCTIONS	-208	S.F.
TOTAL FAR PROPOSED	3521	S.F.
MAXIMUM FAR: LOT AREA	17,100	S.F.
MAXIMUM FAR 40% + ADU = 6,840 + 394 =	7,234	S.F.
COV'D PORCH	27	

Updated : 12.03.20

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

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△ Issue	Issue Date	By
Description		

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Mercer Island, WA.
Job Number: JMC025

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

12.13.23
Submittal Date

Sheet Title/Description

JAYMARC HOMES
Design Firm

R.K.N.
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Checked by:

Primary Scale

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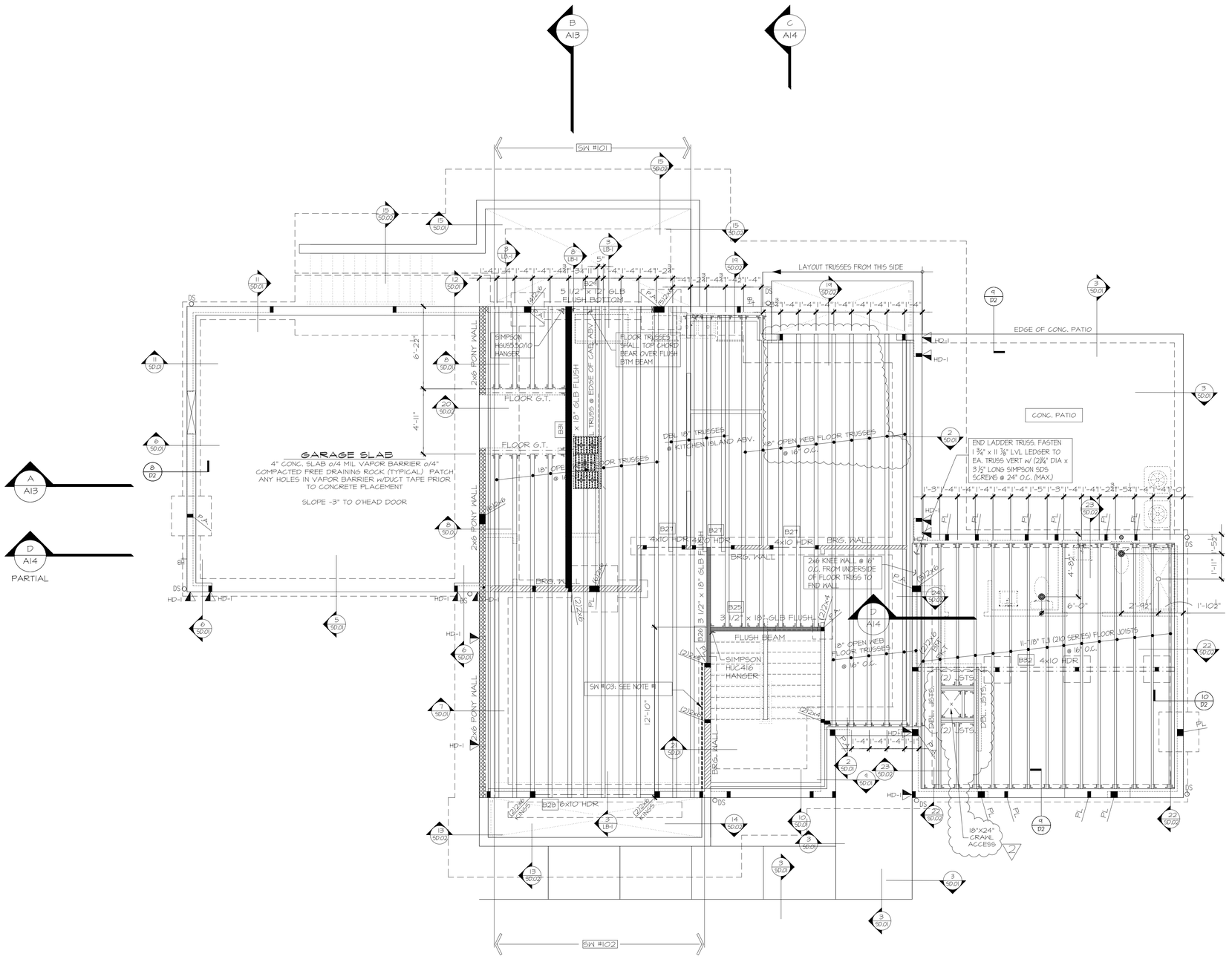
of: .

Sheet Title/Description



MAIN FLOOR FRAMING PLAN

1/4" = 1'-0"

HOLD-DOWN SCHEDULE

SYMBOL	SPECIFICATION
HD-1	SIMPSON STHD14 (R.I) HOLD-DOWN
HD-5	SIMPSON CS16 STRAP TIE (14" END LENGTH)
HD-6	SIMPSON MSTC40 STRAP TIE (12" END LENGTH)
HD-7	SIMPSON MSTC66 STRAP TIE (24" END LENGTH)

LEGEND

JL METAL HANGER

✳ INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

INDICATES HOLDOWN.

INDICATES 11-7/8" TJI FLOOR JOISTS @ 19.2" O.C. (TYP. U.N.O.)

REFER TO S-0 FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

4x10 DROPPED CONT. BEAM (TYP. U.N.O.)

NOTE #1:
PROVIDE 7/16" OSB/PLYWOOD SHTG. + FASTEN PER TYP. WALL SHTG. SPECS. (SEE NOTES)

SQUARE FOOTAGE SUMMARY

SEMENT FLOOR AREA	1,111	S.F.
IN FLOOR AREA	1,573	S.F.
PER FLOOR AREA	1,621	S.F.
TAL CONDITIONED AREA	4305	S.F.
CAR GARAGE	475	S.F.
VD PATIO	0	S.F.
VD PORCH	27	S.F.
TAL AREA UNDER ROOF	4806	S.F.
OVERALL WIDTH	75'-0"	

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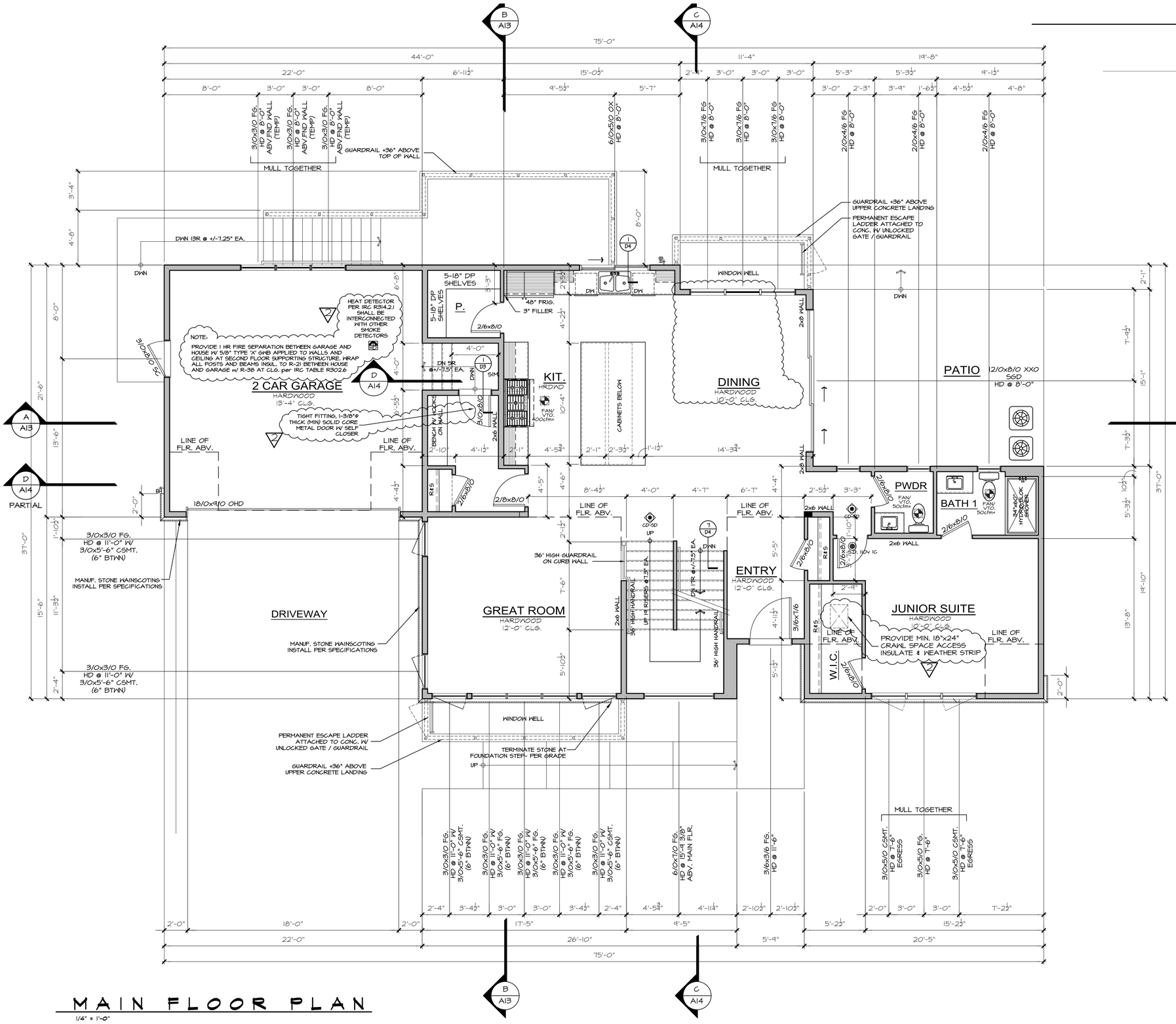

MAIN FLOOR PLAN

1/4" = 1'-0"

MAIN FLOOR PLAN NOTES

PLAN SPECIFIC 2018 WSEC. SECTION R06

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: 0.5 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 M1507.3 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 ENC 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

HVAC EQUIPMENT AND ASSOCIATED DUCT SYSTEM(S) INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF SECTION R403.3.1. 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.

HIGH EFFICENCY HVAC DISTRIBUTION OPT. 4.2: 1.0 CREDITS

HVAC EQUIPMENT AND ASSOCIATED DUCT SYSTEMS(S) SHALL COMPLY WITH THE REQUIREMENTS OF SECT R403.3.1. 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 5.4 1.5 CREDITS

WATER HEATING SYSTEM SHALL INCLUDE ONE OF THE FOLLOWING: ELECTRIC HEAT PUMP WATER HEATER MEETING THE STANDARDS FOR Tier I of NEEA's ADVANCED WATER HEATING SPECIFICATION. IF ONE WATER IS SERVING MORE THAN ONE DWELLING UNIT, ALL HOT WATER SUPPLY AND RECIRCULATION PIPING SHALL BE INSULATED WITH R-5 MINIMUM PIPE INSULATION.

WHOLE HOUSE VENTILATION

PROVIDE WHOLE HOUSE VENTILIATION per 2018 IRC, M1507 and IMC R403.8 USING LAUNDRY ROOM EXHAUST FAN INTEGRATED INTO FORCED ARE SYSTEM (FAU.) PROVIDE OUTDOOR FRESH AIR W/DUCTS CONNECTED TO THE RETURN SIDE OF THE AIR HANDLER.

SYMBOL	LOCATION	MIN. FAN REQUIREMENTS (ALL FANS VENT TO OUTDIDE)
FA 50cfm+	BATH & POWDER	Min. 50cfm, INTERMITTENT at .025wg per TABLE M1507.4
	KITCHEN	Min. 100cfm, INTERMITTENT at .025wg per TBL. M1507.4
		RANGE HOOD'or DOWN DRAFT EXHAUST FAN RATED at min. 100cfm, at 0.10wg MAY BE USED FOR EXHAUST FAN REQMT. EXHAUST HOODS IN EXCESS OF 400cfm, SHALL BE INTERLOCKED AND PROVIDE MAKE UP AIR per M1503.4
LC 150cfm+ MHF	LAUNDRY ROOM	MIN. 360cfm, INTERMITTENT at .025wg TO FUNCTION AS WHOLE HOUSE FAN (MHF.)

MECHANICAL CONTRACTOR TO SIZE MHF, FAN and SET OPERATING TIMER per TABLE M1507.3.3(1) FOR A 3,001-4,500sf. DWELLING w/4-5 BEDRMS, TO OPERATE INTERMITTENTLY and CONTINUOSLY per TABLE M1507.3.3(2)

PROVIDE CONTROLS FOR MHF, per M1507.3.2 AFFIX LABEL TO CONTROLS THAT READS "WHOLE HOUSE VENTILATION - SEE OPERATING INSTRUCTIONS"

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△	Issue	Issue Date	By
	Description		

8434 SE 39th ST.
Mercer Island, WA.

Job Number: JMC025

plan name: --
marketing name: --
plan number: --
mark sys, number: --

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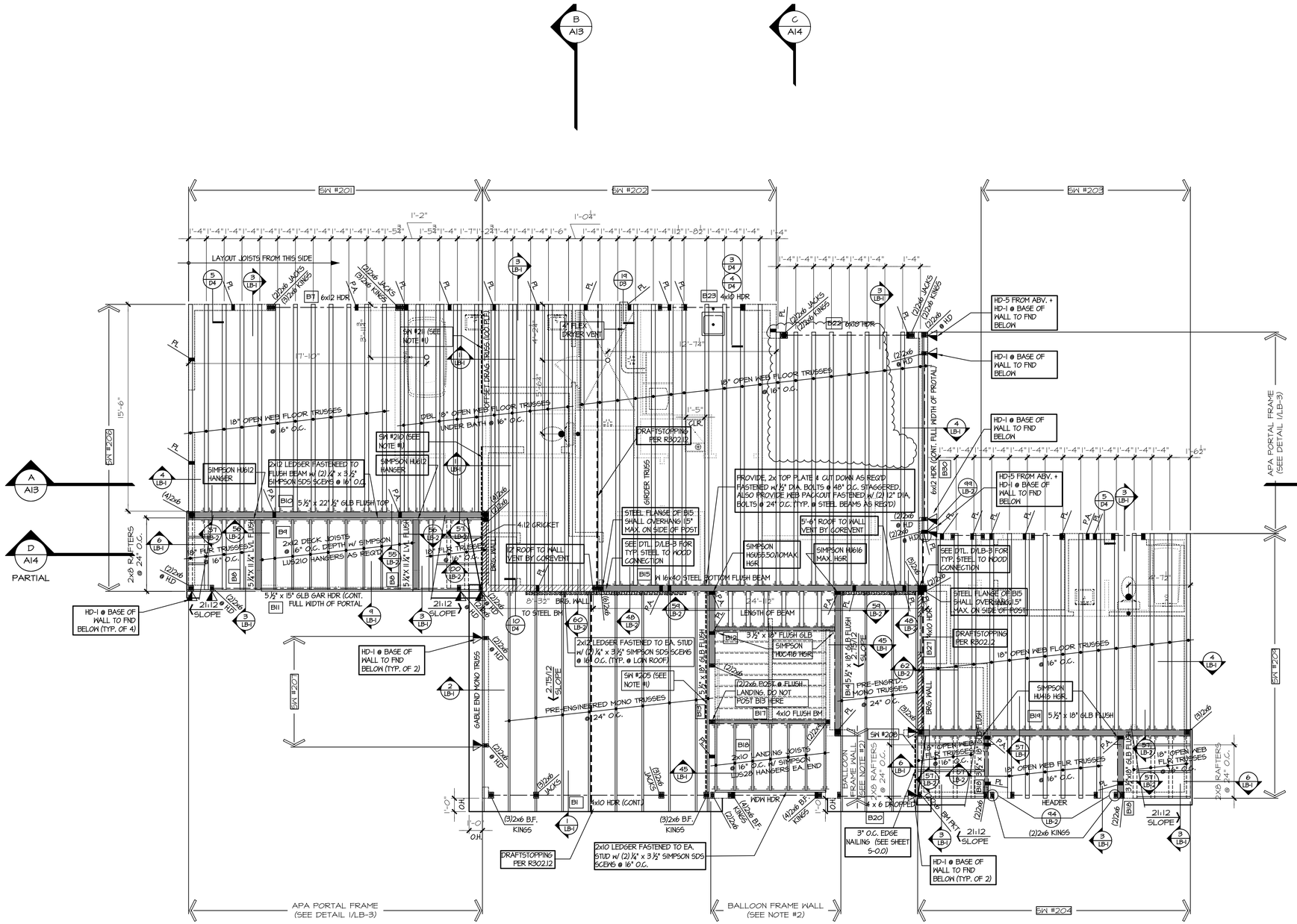

UPPER FLOOR & LOWER ROOF FRAMING PLAN

1/4" = 1'-0"

HOLD-DOWN SCHEDULE

SYMBOL	SPECIFICATION
HD-1	SIMPSON STHD14 (R.I) HOLD-DOWN
HD-5	SIMPSON CS16 STRAP TIE (14" END LENGTH)
HD-6	SIMPSON MSTC40 STRAP TIE (12" END LENGTH)
HD-7	SIMPSON MSTC66 STRAP TIE (24" END LENGTH)

LEGEND

- INTERIOR BEARING WALL
- BEAM / HEADER
- 18" FLOOR TRUSS @ 24" O.C. (U.N.O.)
- INTERIOR SHEAR WALL PANEL OR EXTERIOR SHEAR WALL W/ 3" o.c. EDGE NAILING
- JL METAL HANGER
- INDICATES POST ABOVE. PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.
- INDICATES HOLDOWN.

REFER TO S-0 FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

4x10 HDR @ ALL EXT. B1 WINDOWS/DOORS (TYP. U.N.O.)

NOTE #1:
PROVIDE 7/16" OSB/PLYWOOD SHTG. + FASTEN PER TYP. WALL SHTG. SPECS. (SEE NOTES)

NOTE #2:
ALL WALLS 12' OR TALLER SHALL BE HF #2 GRADE OR BETTER @ 16" O.C.

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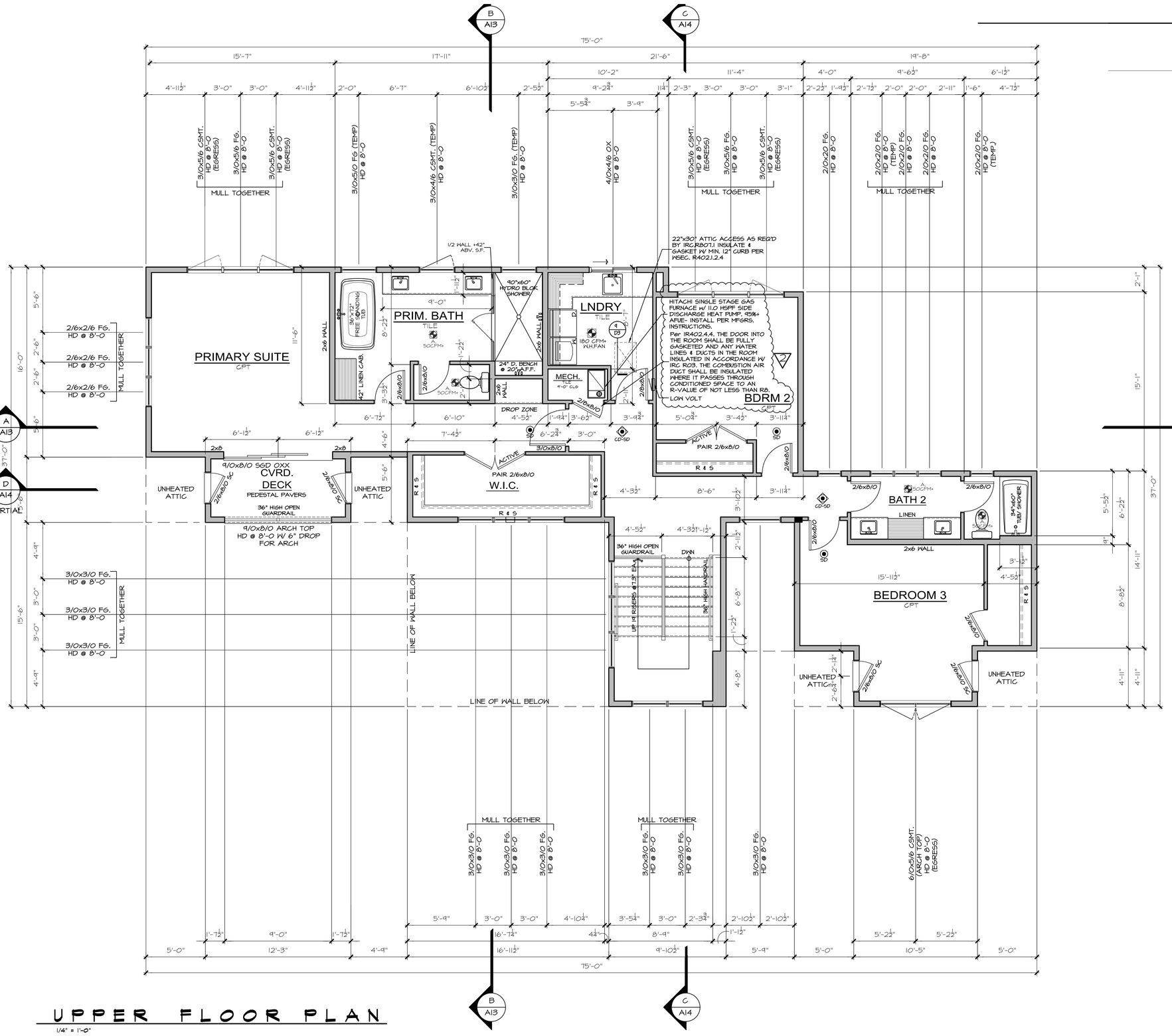

UPPER FLOOR PLAN

1/4" = 1'-0"

UPPER FLOOR PLAN NOTES:

PLAN SPECIFIC 2018 WSEC. SECTION R06

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: 0.5 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 M1507.3 OF THE I.R.C. OR SECTION 404.2 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

HVAC EQUIPMENT AND ASSOCIATED DUCT SYSTEM(S) INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF SECTION R403.3.7. 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.

HIGH EFFICIENCY HVAC DISTRIBUTION OPT. 4.2: 1.0 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 5.4 1.5 CREDITS

WATER HEATING SYSTEM SHALL INCLUDE ONE OF THE FOLLOWING: ELECTRIC HEAT PUMP WATER HEATER MEETING THE STANDARDS FOR Tier I of NEEA's ADVANCED WATER HEATING SPECIFICATION. IF ONE WATER IS SERVING MORE THAN ONE DWELLING UNIT, ALL HOT WATER SUPPLY AND RECIRCULATION PIPING SHALL BE INSULATED WITH R-8 MINIMUM PIPE INSULATION.

WHOLE HOUSE VENTILATION

PROVIDE WHOLE HOUSE VENTILIATION per 2018 IRC, M1507 and IMC R403.8 USING LAUNDRY ROOM EXHAUST FAN INTEGRATED INTO FORCED ARE SYSTEM (FAU.) PROVIDE OUTDOOR FRESH AIR w/DUCTS CONNECTED TO THE RETURN SIDE OF THE AIR HANDLER.

SYMBOL	LOCATION	MIN. FAN REQUIREMENTS (ALL FANS VENT TO OUTDIDE)
BATH 50cfm+	BATH & POWDER	Min. 50cfm. INTERMITTENT at .025wg per TABLE M1507.4
	KITCHEN	Min. 100cfm. INTERMITTENT at .025wg per TBL. M1507.4
		RANGE HOOD'or DOWN DRAFT EXHAUST FAN RATED at min. 100cfm. at 0.10wg MAY BE USED FOR EXHAUST FAN REQMT. EXHAUST HOODS IN EXCESS OF 400cfm. SHALL BE INTERLOCKED AND PROVIDE MAKE UP AIR per M1503.4
180cfm+ WHF.	LAUNDRY ROOM	MIN. 360cfm. INTERMITTENT at .025wg TO FUNCTION AS WHOLE HOUSE FAN (WHF.)

MECHANICAL CONTRACTOR TO SIZE WHF. FAN and SET OPERATING TIMER per TABLE M1507.3.3(1) FOR A 3,001-4,500sf. DWELLING w/4-5 BEDRMS. TO OPERATE INTERMITTENTLY and CONTINUOSLY per TABLE M1507.3.3(2)

PROVIDE CONTROLS FOR WHF. per M1507.3.2 AFFIX LABEL TO CONTROLS THAT READS "WHOLE HOUSE VENTILATION - SEE OPERATING INSTRUCTIONS"

TOTAL MAIN FLOOR	2,040 S.F.
UPPER FLOOR AREA	1,621 S.F.
TOTAL NET AREA	3,759 S.F.
STAIR DEDUCTIONS	-208 S.F.
TOTAL FAR PROPOSED	3521 S.F.
MAXIMUM FAR: LOT AREA	17,100 S.F.
MAXIMUM FAR 40% + ADU = 6,840 + 394 =	7,234 S.F.
COV'D PORCH	27

Updated : 12.03.20

* Method for Calculating Square Footage - ANSI Z765-2013 except, no separate

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Mercer Island, WA
98040
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Issue	Issue Date	By	Description
2			

8434 SE 39th ST.
Mercer Island, WA.
Job Number: JMC025

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

12.13.23
Submittal Date

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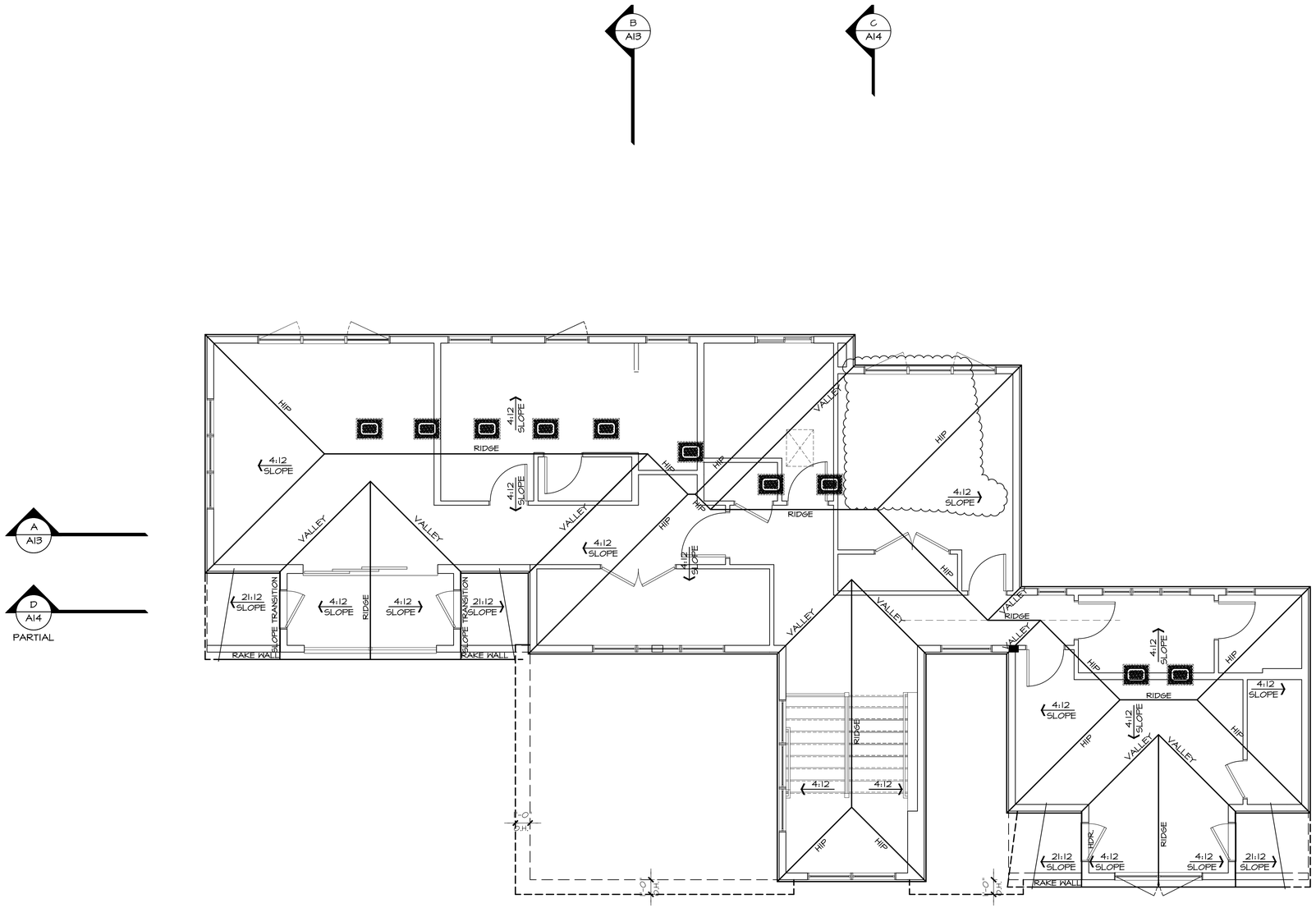

ROOF PLAN

1/4" = 1'-0"

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98040
425.266.9100

Issue	Issue Date	By	Description
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8434 SE 39th ST.
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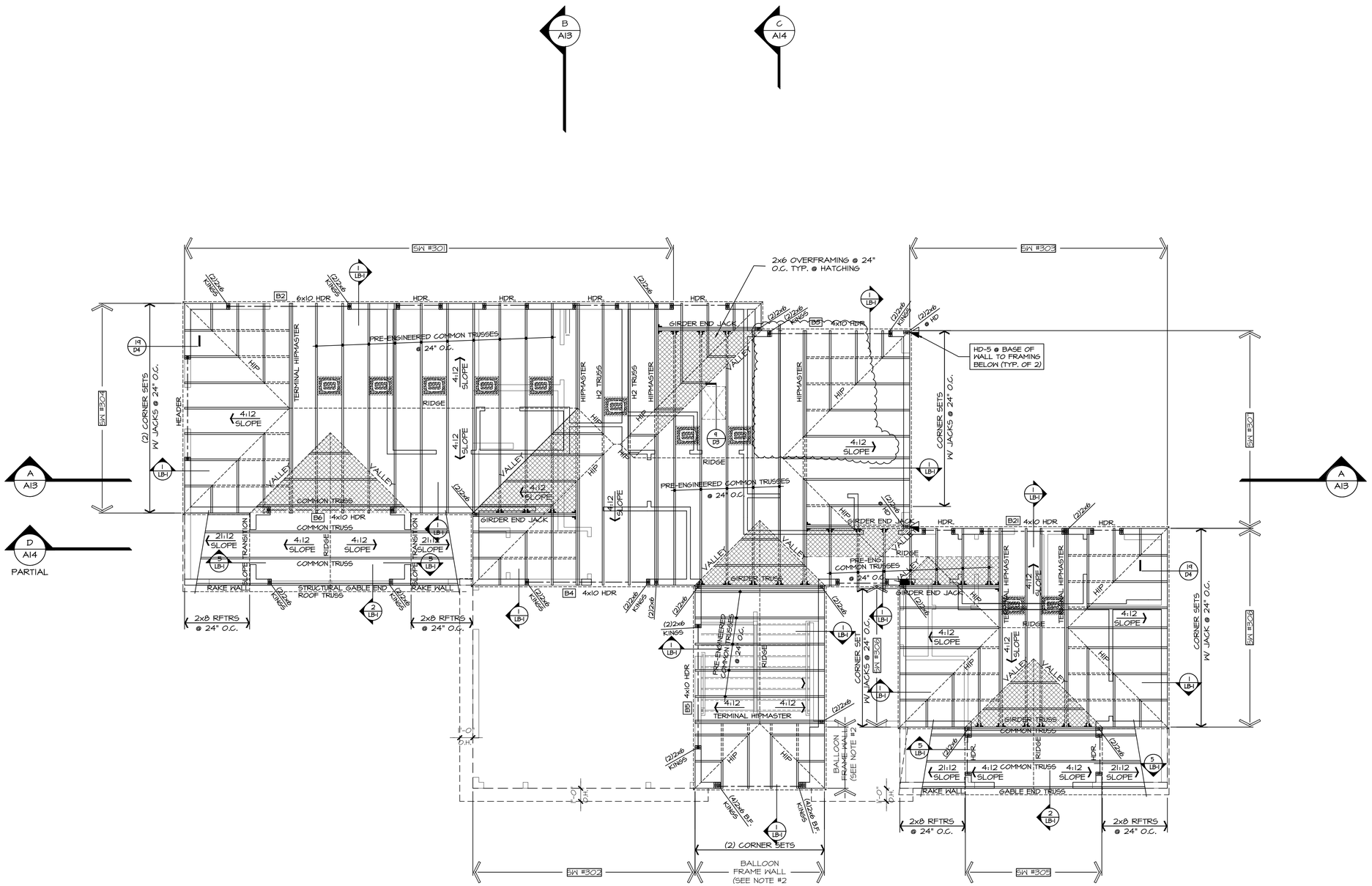

ROOF FRAMING PLAN

1/4" = 1'-0"

LEGEND

- 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
  JL METAL HANGER
- INDICATES OVER FRAMED TRUSS AREA

REFER TO S-0 FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

4x10 HDR @ ALL EXT. B1 WINDOWS/DOORS (TYP. U.N.O.)

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

NOTE #1:
PROVIDE 7/16" OSB/PLYWOOD SHTG. + FASTEN PER TYP. WALL SHTG. SPECS. (SEE NOTES)

NOTE: #2:
ALL WALLS 12' OR TALLER SHALL BE HF #2 GRADE OR BETTER @ 16" O.C.

Upper Roof Ventilation: as needed to achive 50% of ventilation

Standard Truss / Scissor Truss Roof Framing Assembly:		ZONE 1
Roof Area :	1717 s.f.	
Ventilation Required:	1717 s.f. x 144 s.i. / s.f. / 300 =	824.16 s.i. Req'd
Provide between 40% & 50% of the total required ventilation no more than 3 ft below the ridge or		
Ridge Ventilation: 50% of ventilation		50.16
Continuous Ridge Vent =		18.00 s.i. per l.f.
Upper Ventilation MIN. Req'd =	412.08 s.i. x 0.4 / s.i. per linear foot =	19 l.f.
Upper Ventilation MAX. Req'd =	412.08 s.i. x 0.5 / s.i. per linear foot =	22 l.f.
Provide:	0 lf	0.00 s.i.
Ventilation area remainder for AF50 vents =	50.16 s.i.	
Upper Roof Ventilation: as needed to achive 50% of ventilation		
AF50 Roof Jack (10" x 7") =		50.00 s.i. each.
Upper Ventilation Req'd TO GET 50%= 50.16 s.i.	/ s.i. of each vent =	2 vents
Provide:	10 -10"x7" roof jacks. Ventilation =	500.00 s.i.
Eave Ventilation:		
Birdblocking: (3)2" dia holes per bay =	4.71 s.i. / l.f. - 25% reduction =	3.53 s.i. / l.f.
Eave Ventilation Req'd =	412.08 s.i./ s.i. per l.f. =	191.70 l.f.
Provide Minimum:	141 l.f. birdblocking. Ventilation =	498.08 s.i.
Minimum Ventilation Provided =	**998.08 s.i. IS GREATER THAN :**	**824.16 s.i. Req'd**

Upper Roof Ventilation: as needed to achive 50% of ventilation

Standard Truss / Scissor Truss Roof Framing Assembly: GREAT ROOM		ZONE 2
Roof Area:	297 s.f.	
Ventilation Required:	297 s.f. x 144 s.i. / s.f. / 300 =	142.56 s.i. Req'd
Provide between 40% & 50% of the total required ventilation no more than 3 ft below the ridge or the highest point of the space. Remainder to be installed at eave vents.		
Ridge Ventilation: 50% of ventilation		50.16
Continuous Ridge Vent =		18.00 s.i. per l.f.
Upper Ventilation MIN. Req'd =	71.28 s.i. x 0.4 / s.i. per linear foot =	4 l.f.
Upper Ventilation MAX. Req'd =	71.28 s.i. x 0.5 / s.i. per linear foot =	3 l.f.
Provide:	0 l.f. ridge vent. Ventilation =	0.00 s.i.
Ventilation area remainder for AF50 vents =	50.16 s.i.	
Upper Roof Ventilation: as needed to achive 50% of ventilation		
Corevent Invent Product Supplies 6.75 sq in. if net free per liner foot		
Upper Ventilation Req'd TO GET 50%= 71.28 s.i.		
Provide: 12 liner feet of Corevent product at roof to wall =		81.00 s.i.
Eave Ventilation:		
Birdblocking: (3)2" dia holes per bay =	4.71 s.i. / l.f. - 25% reduction =	3.53 s.i. / l.f.
Eave Ventilation Req'd =	71.28 s.i. / s.i. per l.f. =	73.09 l.f.
Provide Minimum:	24 l.f. birdblocking. Ventilation =	84.78 s.i.
Minimum Ventilation Provided =	**165.78 s.i. IS GREATER THAN :**	**142.56 s.i. Req'd**

Lower Roof Ventilation: as needed to achive 50% of ventilation

Standard Truss / Scissor Truss Roof Framing Assembly: ENTRY		ZONE 3
Roof Area :	95 s.f.	
Ventilation Required:	95 s.f. x 144 s.i. / s.f. / 300 =	45.6 s.i. Req'd
Provide between 40% & 50% of the total required ventilation no more than 3 ft below the ridge or the highest point of the space. Remainder to be installed at eave vents.		
Ridge Ventilation: 50% of ventilation		50.16
Continuous Ridge Vent =		18.00 s.i. per l.f.
Upper Ventilation MIN. Req'd =	22.8 s.i. x 0.4 / s.i. per linear foot =	2 l.f.
Upper Ventilation MAX. Req'd =	22.8 s.i. x 0.5 / s.i. per linear foot =	1 l.f.
Provide:	0 l.f. ridge vent. Ventilation =	0.00 s.i.
Ventilation area remainder for AF50 vents =	50.16 s.i.	
Upper Roof Ventilation: as needed to achive 50% of ventilation		
Corevent Invent Product Supplies 6.75 sq in. if net free per liner foot		
Upper Ventilation Req'd TO GET 50%= 22.08 s.i.		
Provide: 4 liner feet of Corevent product at roof to wall =		27.00 s.i.
Eave Ventilation:		
Birdblocking: (3)2" dia holes per bay =	4.71 s.i. / l.f. - 25% reduction =	3.53 s.i. / l.f.
Eave Ventilation Req'd =	22.80 s.i. / s.i. per l.f. =	57.80 l.f.
Provide Minimum:	6 l.f. birdblocking. Ventilation =	21.20 s.i.
Minimum Ventilation Provided =	**48.20 s.i. IS GREATER THAN :**	**45.6 s.i. Req'd**

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Issue	Issue Date	By	Description

8434 SE 39th ST.
Mercer Island, WA.
Job Number: JMC025

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

12.13.23
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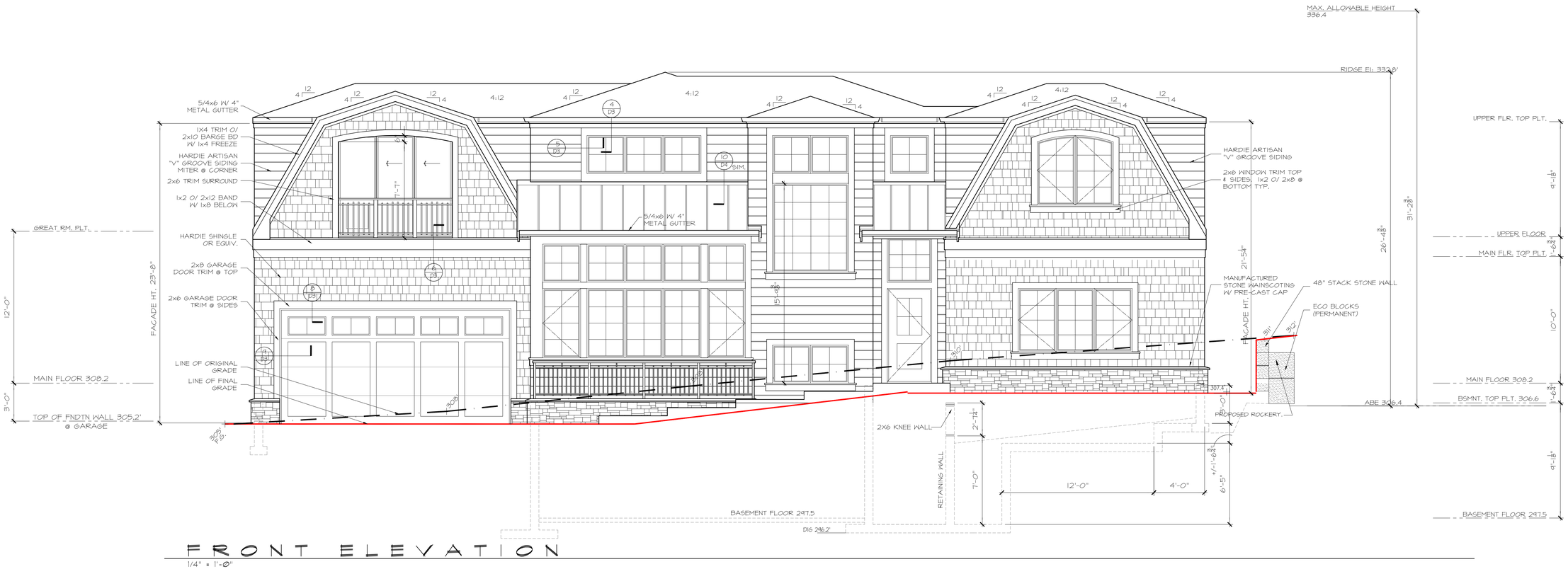
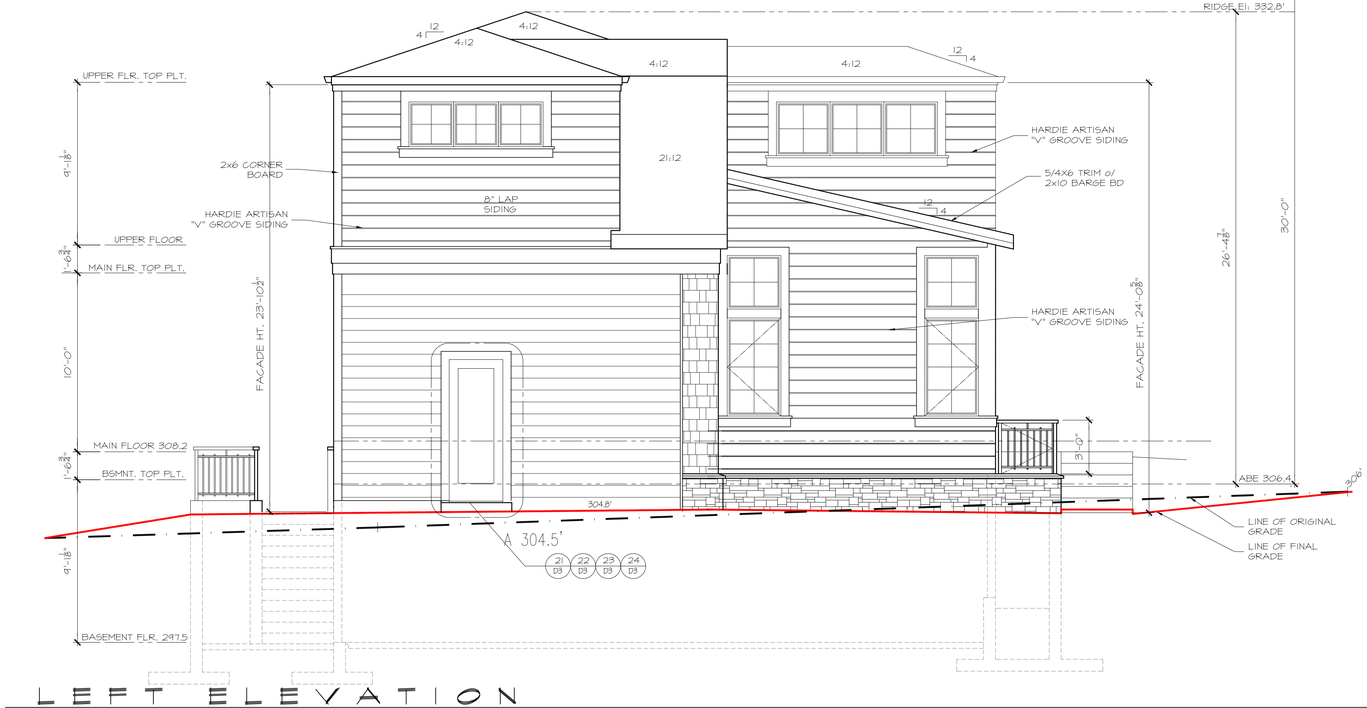


FRONT ELEVATION

1/4" = 1'-0"



LEFT ELEVATION

1/4" = 1'-0"

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8434 SE 39th ST.
Mercer Island, WA.
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plan name: –
marketing name: –
plan number: –
mark sys. number: –

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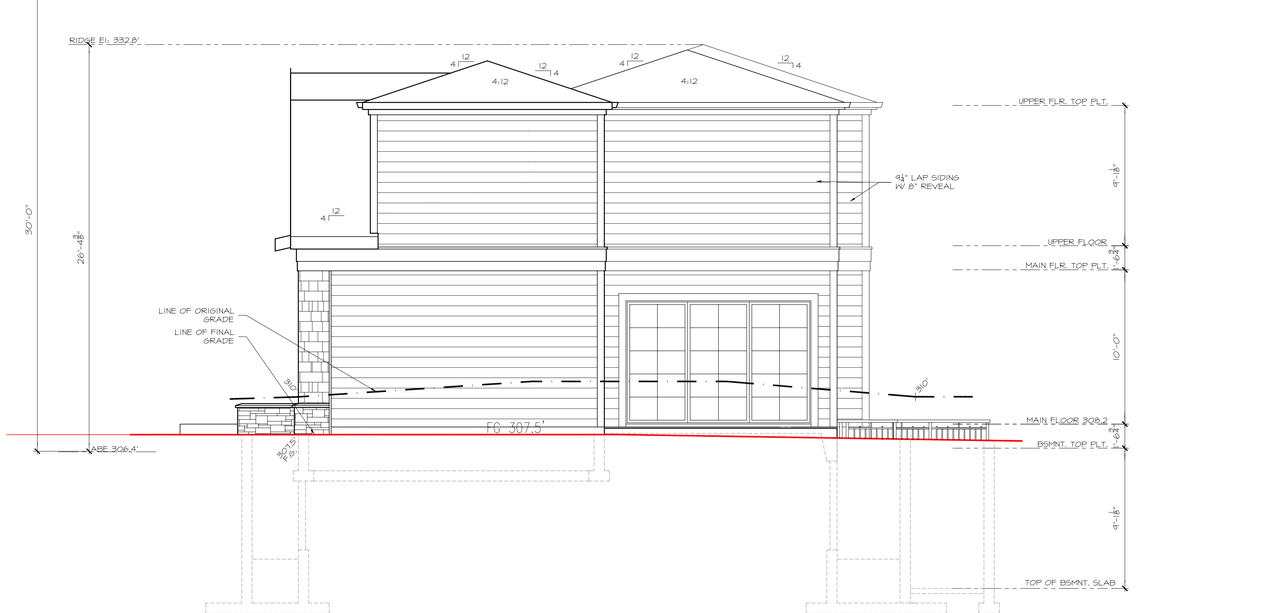
REAR ELEVATION

1/4" = 1'-0"



RIGHT ELEVATION

1/4" = 1'-0"

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Mercer Island, WA
98040
425.266.9100

Issue	Issue Date	By	Description
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8434 SE 39th ST.
Mercer Island, WA.
Job Number: JMC025

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

12.13.23
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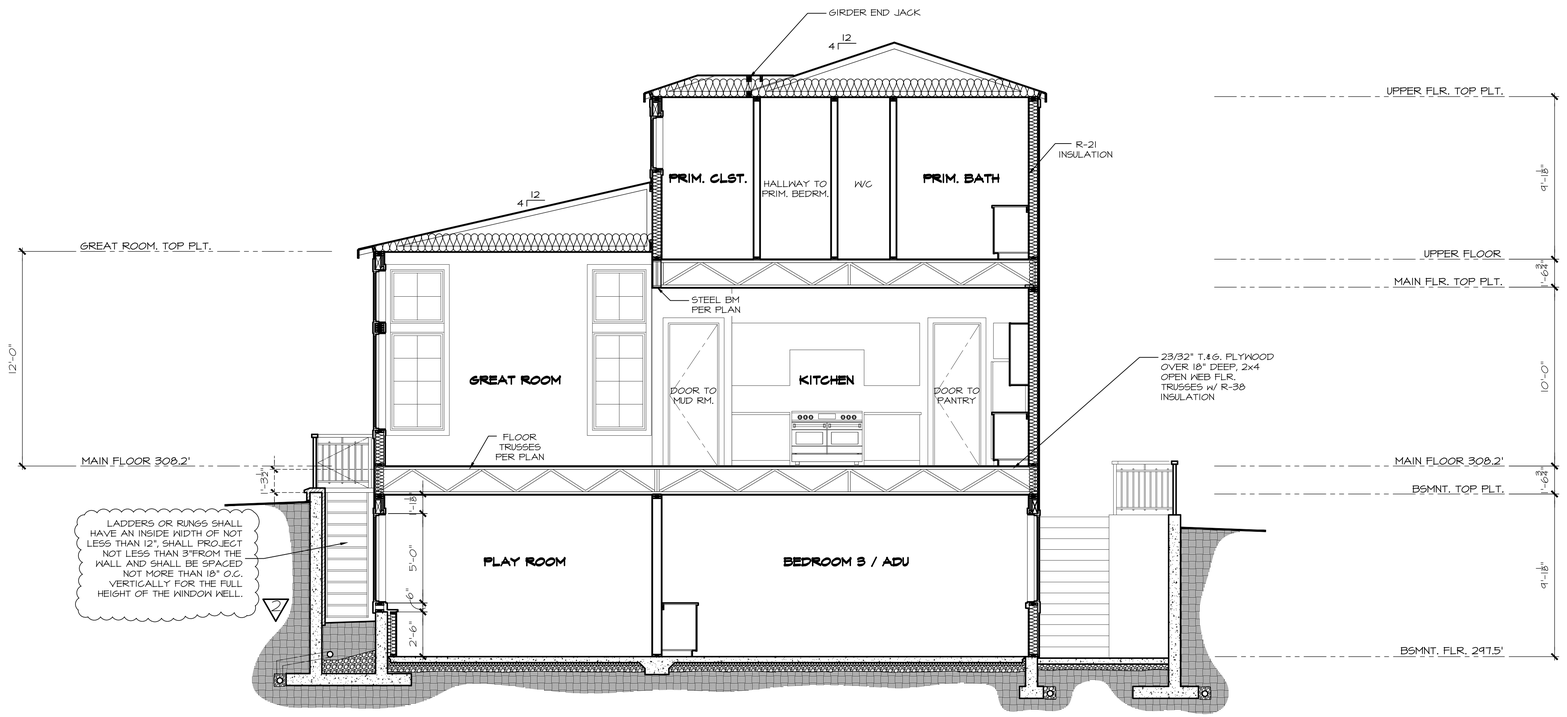
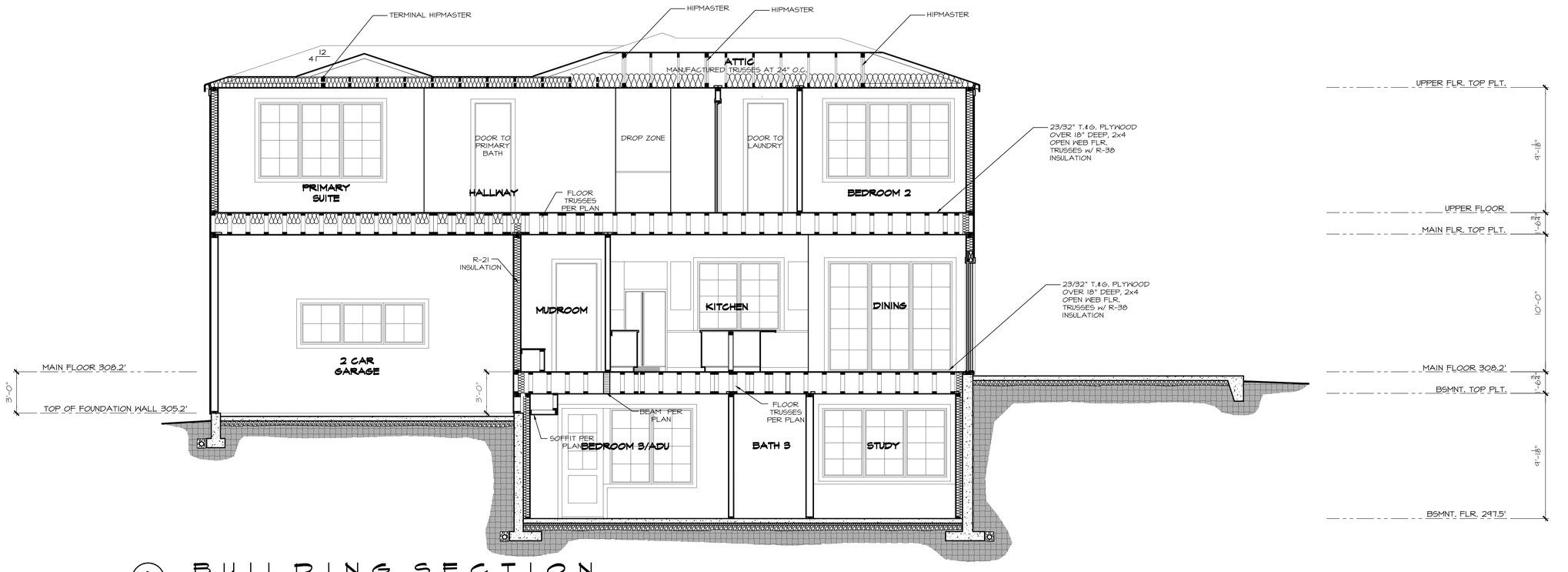


B BUILDING SECTION

1/4" = 1'-0"



A BUILDING SECTION

1/4" = 1'-0"

NOTES:

2 PER R302.11 FIRE BLOCKING SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL & HORIZONTAL) AND A FORM AN EFFECTIVE FIRE BARRIER BETWEEN STORIES, & BETWEEN A TOP STORY & THE ROOF SPACE.

JAYMARC HOMES

7525 SE 24th St., 487
Mercer Island, WA
98040
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Issue	Issue Date	By	Description
1			

8434 SE 39th ST.
Mercer Island, WA.
Job Number: JMC025

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

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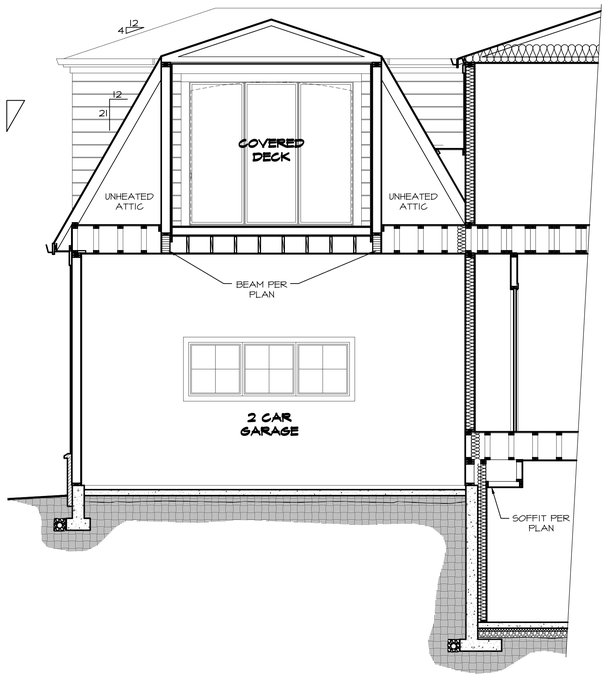
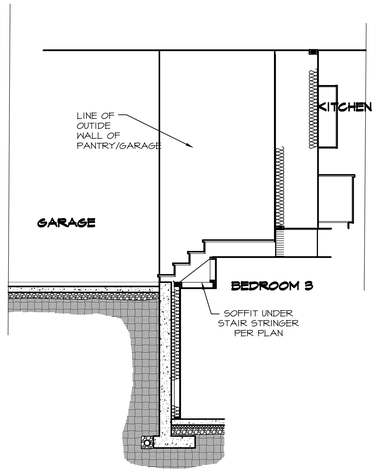


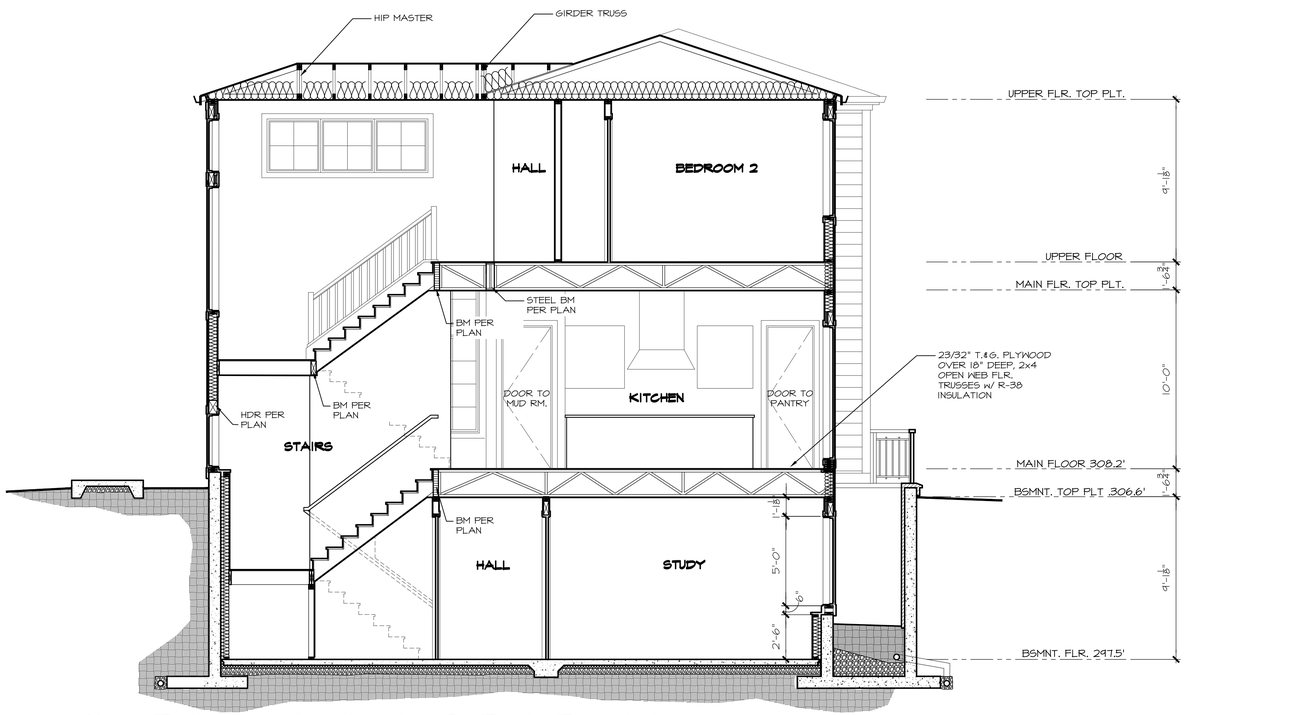
D PARTIAL BUILDING SECTION

¼" = 1'-0"



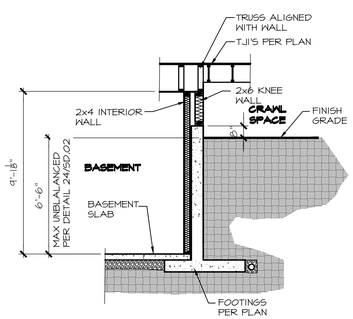
E GARAGE TO HOUSE SECTION AT STEPS

¼" = 1'-0"



C BUILDING SECTION

¼" = 1'-0"



F PARTIAL SECTION

¼" = 1'-0"

@ CRAWLSPACE/BASEMENT

JAYMARC HOMES

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Mercer Island, WA
98040
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New SFR	JayMarc Homes
8446 SE 37th St.	7525 SE 24th St, #520
MERCER ISLAND, WA. 98040	Mercer Island, WA. 98040

	WSEC	0.25		1	3	0	8	

Bedroom 3/ADU -Store Dr	WSEC	0.28		1	3	0	8	
Bedroom 3/ADU	WSEC	0.28		1	6	0	5	
Playroom	WSEC	0.28		3	3	0	5	
Stairs	WSEC	0.28		2	3	0	3	
Study	WSEC	0.28		3	3	0	5	
Kitchen	WSEC	0.28		1	6	0	5	
Dining	WSEC	0.28		1	12	0	9	
Hall, Pwdr, & Bath 1	WSEC	0.28		3	2	0	4	
Junior Suite	WSEC	0.28		3	3	0	5	
Entry	WSEC	0.28		1	3	6	3	
Stairs	WSEC	0.28		1	6	0	7	
Great Room	WSEC	0.28		7	3	0	3	
Great Room	WSEC	0.28		7	3	0	5	
Primary Suite W.I.C.	WSEC	0.28		3	3	0	3	
Primary Suite -SGD	WSEC	0.28		1	9	0	8	
Primary Suite	WSEC	0.28		3	2	6	2	
Primary Suite	WSEC	0.28		3	3	0	5	
Primary Bath @ Tub	WSEC	0.28		1	3	0	5	
Primary Bath @ vanity	WSEC	0.28		1	3	0	4	
Primary Bath @ shower	WSEC	0.28		1	3	0	3	
Laundry	WSEC	0.28		1	4	0	4	
Bedroom 2	WSEC	0.28		3	3	0	5	
Hall & Bath 2	WSEC	0.28		5	2	0	2	
Bedroom 3	WSEC	0.28		1	6	0	5	
Hall abv. Entry dr	WSEC	0.28		1	3	0	3	
Stairs	WSEC	0.28		5	3	0	3	

Simple Heating System Size: Washington State

This heating system sizing calculator is based on the Prescriptive Requirements of the 2015 Washington State Energy Code (WSEC) and ACCA Manuals J and S. This calculator will calculate heating loads only. ACCA procedures for sizing cooling systems should be used to determine cooling loads.

Please fill out all of 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 call the WSU Energy Extension Program at (360) 956-2042 for assistance.

Project Information	Contact Information
New SFR	JayMarc Homes
8446 SE 37th St. Mercer Way	7525 SE 24th St, #500
MERCER ISLAND, WA. 98040	MERCER ISLAND, WA. 98040

Heating System Type: All Other Systems / Heat Pump

To see detailed instructions for each section, place your cursor on the word "Instructions".

Design Temperature
Instructions
Design Temperature Difference (ΔT) = 45
ΔT = Indoor (70 degrees) - Outdoor Design Temp

Area of Building
Conditioned Floor Area
Instructions
Conditioned Floor Area (sq ft) = 4,432

Average Ceiling Height
Instructions
Average Ceiling Height (ft) = 9.5
Conditioned Volume = 42,104

Glazing and Doors
Instructions

U-Factor X	Area	= UA
0.280	1,011	283.08

Skylights
Instructions

U-Factor X	Area	= UA
0.50	0	---

Insulation
Attic
Instructions

U-Factor X	Area	= UA
0.026	2,109	54.83

Single Rafter or Joist Vaulted Ceilings
Instructions

U-Factor X	Area	UA
No selection		---

Above Grade Walls (see Figure 1)
Instructions

U-Factor X	Area	UA
0.056	4,089	228.98

Floors
Instructions

U-Factor X	Area	UA
0.025	2,232	55.80

Below Grade Walls (see Figure 1)
Instructions

U-Factor X	Area	UA
0.028	1,180	33.04

Slab Below Grade (see Figure 1)
Instructions

F-Factor X	Length	UA
0.303	17	5.15

Slab on Grade (see Figure 1)
Instructions

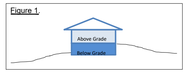
F-Factor X	Length	UA
0.360	161	57.96

Location of Ducts
Instructions

Duct Leakage Coefficient 1.00

Sum of UA	718.85
Envelope Heat Load Sum of UA X ΔT	32,348 Btu / Hour
Air Leakage Heat Load Volume X 0.6 X ΔT X .018	20,463 Btu / Hour
Building Design Heat Load Air Leakage + Envelope Heat Loss	52,811 Btu / Hour
Building and Duct Heat Load Ducts in unconditioned space: Sum of Building Heat Loss X 1.10 Ducts in conditioned space: Sum of Building Heat Loss X 1	52,811 Btu / Hour
Maximum Heat Equipment Output Building and Duct Heat Loss X 1.40 for Forced Air Furnace Building and Duct Heat Loss X 1.25 for Heat Pump	73,935 Btu / Hour

Figure 1



(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) Version 1.0

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*
Dubey Residence	Mark Shanaberger - JayMarc Homes
8446 SE 37th St , 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: 2021.03.24 12:42:38 -07'00' ***Date*** 03/24/2021

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,e] R-Value & Depth	10, 2 ft	n/a

a. *R*-values are minimums; *U*-factors and SHGC are maximums. When insulation is installed in a cavity that is less 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.
c. "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 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.
e. 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.
f. R-7.5 continuous insulation installed over an existing slab is deemed to be equivalent to the required perimeter 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.
g. For log structures developed in compliance with Standard ICC 400, log walls shall meet the requirements for *climate zone* 5 of ICC 400.
h. Int. (intermediate framing) denotes framing and insulation as described in Section A103.2.2 including standard framing 16 inches on center, 78% of the wall cavity insulated and headers insulated with a minimum of R-10 insulation.

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 of operation.

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 Table R406.2

Heating Options	Fuel Normalization Descriptions	Credits - select ONE heating option		User Notes
1	Combustion heating minimum NAECA[b]	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**	**Credits - select ONE energy option from each category [d]**		
1.1	Efficient Building Envelope	0.5	○	
1.2	Efficient Building Envelope	1.0	○	
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	1.0	○	
2.3	Air Leakage Control and Efficient Ventilation	1.5	○	
2.4	Air Leakage Control and Efficient Ventilation	2.0	○	
3.1[a]	High Efficiency HVAC	1.0	○	
3.2	High Efficiency HVAC	1.0	○	
3.3[a]	High Efficiency HVAC	1.5	○	
3.4	High Efficiency HVAC	1.5	○	
3.5	High Efficiency HVAC	1.5	◉	
3.6[a]	High Efficiency HVAC	2.0	○	
4.1	High Efficiency HVAC Distribution System	0.5	○	
4.2	High Efficiency HVAC Distribution System	1.0	◉	

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.)	Credits - select ONE energy option from each category [d]		User 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	○	
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 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 official.

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

△ Issue	Issue Date	By
Description		
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8434 SE 39th ST.
Mercer Island, WA.
Job Number: JMC025

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

05.18.23
Submittal Date

Sheet Title/Description

JAYMARC HOMES
Design Firm

R.K.N.
Drawn by:

....
Checked by:

Primary Scale

EN1
of: .

Sheet Title/Description

ENERGY SHEET 1

TYPAR
Weather Protection System

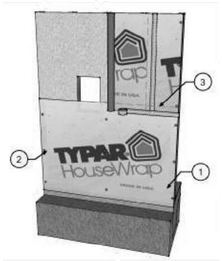
Vertical wall Installation

Install Typar® HouseWrap over an approved exterior sheathing after the framing is complete and before the windows and doors have been installed. Plastic capped fasteners should be used and spaced at 32" OC (vertically and horizontally) when being applied over 7/16" OSB or 15/32" plywood. When installing over metal framing use screws with washers. If the windows and doors have already been installed, trim the Typar WRB close to the window frame and flash according to the Typar Flashing instructions.

STEP 1
Start at the bottom of one end of the wall with the printed side facing out. When starting at a corner, overlap by a minimum of 12".

Place the housewrap roll horizontally and roll out the first course evenly, covering rough window and door openings. A minimum of a 1" (25.4 mm) overlap on the sill plate is required; however, for maximum protection, a 2-4" (51-102 mm) overlap on the sill plate is recommended.

Pull the Typar snug and avoid wrinkles and creases. Ensure that the product is level.



STEP 2
Fasten the Typar to the stud using plastic capped nails or plastic capped staples at 32" O.C. both horizontally and vertically.

STEP 3
The upper layer of Typar housewrap should overlap the bottom layer by a minimum of 6" (152 mm) vertically and horizontally. Ensure proper shingling throughout the installation to properly shed water. Once the structure is completely covered, tape all seams and penetrations using Typar® construction tape. (Please refer to the Typar® flashing instructions for more detailed instruction on penetrations and window flashing installation).

STEP 4
After the installation complete and before the exterior cladding is installed, inspect the Typar® for tears. Repair the issues with Typar Construction tape or Typar Flashing.

pgi

TYPAR
Weather Protection System

Window and Door Preparation

Preparing for Window Installation

STEP 1
After wrapping the structure and covering all rough openings. Cut a horizontal line across the top of the window opening. The cut should not extend past the rough opening.

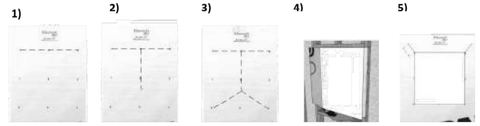
STEP 2
Start at the top center and make a vertical cut running two-thirds of the way down the opening.

STEP3
From that stopping point, cut diagonally to both lower left and right corners of the opening.

STEP 4
Pull each of the flaps tightly inside the rough opening and attach them to the frame with nails, staples, or tape.

STEP 5
At the window header, make a 6" diagonal cut at a 45 degree angle on both corners. Fold the material up exposing the sheathing. Now install the window or door according to the manufacturer instructions. The final step is to flash all seams and flanges securely (refer to Typar® Flashing instructions). Typar® flashing should also be installed in accordance with window manufacturer instructions and according to the ASTM 2112 standard.

1) **2)** **3)** **4)** **5)**



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TYPAR
Weather Protection System

Typical Window Flashing

STEP 1
Install the window sill pan according to the manufacturer's instructions. Alternatively, you can create a sill pan using Typar Flashing Flex. Cut a piece that is 12" longer than the length of the rough opening window sill.

Carefully pull off the release liner. Center the Flashing in the center of the rough opening and work you way toward the corners and then up the sides. Note: the flex flashing should overlap to the outside of the wall by 2-3". Only stretch the flashing in the corners.

Alternatively to above, you can create a sill pan by installing TYPAR Straight Flashing along the bottom sill and installing TYPAR Flashing Flex on the corners only.

If needed, secure the fanned edges of the TYPAR Flashing Flex with a plastic capped nail/ plastic capped staple.

STEP 2
Apply a continuous bead of sealant to the back of the window or on the wall. Do not apply the sealant across the bottom of the sill or on the bottom of the window. This area is left open to allow for proper drainage.

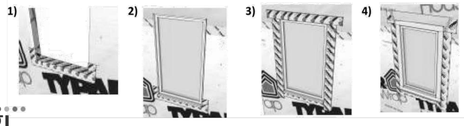
Install the window according to the manufacturer's installation instructions.

STEP 3
Cut two pieces of Typar Flashing long enough to extend 1" above the window head flange and 1" below the window sill flange. Carefully peel off the release liner and apply the flashing on both sides of the window. Make sure to cover the entire window flange, press firmly either by hand or using a J-roller. Ensure there are no wrinkles or bubbles.

Cut a piece of Typar Flashing for the head flashing. Ensure that the piece is long enough to extend by 1' on both sides of the jamb flashing. Remove the release liner and carefully install the flashing. Cover the window flange and press firmly by hand or using a J-roller.

STEP 4
Release the upper flap of the WRB that you cut earlier. Tape the 45 degree cuts using Typar Construction Tape or Typar Flashing. DO NOT tape the WRB along the top of the window flange.

1) **2)** **3)** **4)**



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TYPAR
Weather Protection System

Flashing Penetrations

Penetrations such as exhaust fans, exterior electrical outlets, dryer vents, exterior lights, and gas outlets are a common entrance for bulk water into the wall cavity. Using Typar flashing will ensure proper water hold out and maintain the integrity of the structure.

The method is similar to the flashing a window. Start by flashing the bottom of the penetration. Ensure to shingle the upper tape over the bottom tape.

Some penetrations have flanges, such as dryer vents. These penetrations should be flashed according to the details below.

STEP 1
Install the vent according to the manufacturer's recommendations. Trim the housewrap as close as possible around the perimeter of the vent.

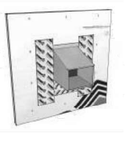
STEP 2
Flash the vent using the same method as windows. Starting at the bottom flange; cut the flashing so that it extends past the flanges by 1" on both sides. Now apply the flashing to the sides of the vent. Remember to extend the flashing 1" on both top and bottom. Make sure to smooth out wrinkles and air bubbles. The use of a J-roller is optional.

STEP 3
The Final step is to install the flashing across the top. Extend the flashing out at least 1" on both sides.

Note: This type of installation is suitable for several different penetrations. Always use the shingling method and ensure a tight seal around the flange/penetration.

1)

2)



3)

Typar® HouseWrap is part of a complete Weather Protection System, which also includes Typar® Metro Wrap, Typar® Flashings and Construction tape

For more information, visit www.Typar.com

pgi

MADE IN USA. ICC #ESR-1404 • CCMC #12884-R • CCMC #12892-R
Please visit typar.com for installation instructions and warranty information

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△ Issue	Issue Date	By
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Job Number:

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

Submittal Date

Sheet Title/Description

Design Firm

Drawn by:

Checked by:

Primary Scale

D1

of: .

Sheet Title/Description

GARAGE SLAB

4" CONC. SLAB 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 ..... 1,500 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 2,500 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 ACTIVE SOIL PRESSURE OF 35 PCF, AND 8H FOR SEISMIC SURCHARGE.
- 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.
- 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 ⅝" DIA. ANCHOR BOLTS W/ MIN. 3"x3"x¼" PLATE WASHERS (EDGE OF WASHER TO BE LOCATED WITHIN ½" 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 HEM FIR #2.
- 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-1	SIMPSON STHD14 (R.I.) HOLD-DOWN
HD-5	SIMPSON CS16 STRAP TIE (14' END LENGTH)
HD-6	SIMPSON MSTC40 STRAP TIE (CENTER STRAP ON FLOOR SYSTEM U.N.O.)
HD-7	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 TOLERANCES.

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 M+K 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
B. FLOOR TRUSSES, ATTIC TRUSSES, & I-JOISTS:
   1/8" DEAD LOAD
C. 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 :	10
ROOF TRUSS BOTTOM CHORD :	7
ROOF RAFTERS (1-JOISTS OR 2X)	10
FLOOR (TRUSSES) :	15
FLOOR (1-JOISTS) :	10
TILE FLOORS :	10
PEDESTAL PAVERS :	15

LIVE LOAD (PSF):

ROOF :	20
RESIDENTIAL LIVING AREAS :	40
RESIDENTIAL SLEEPING AREAS :	30
RESIDENTIAL WOOD DECKS :	60
GARAGE :	50

SNOW LOAD:

GROUND SNOW LOAD (P_g) (PSF) :	25
FLAT ROOF SNOW LOAD (P_f) (PSF) :	25
SNOW EXPOSURE FACTOR (C_e) :	0.9
SNOW LOAD IMPORTANCE FACTOR (I) :	1.0
THERMAL FACTOR (C_t) :	1.2

LATERAL DESIGN LOADS:

WIND LOAD: (IBC 1609)

SPEED (Vult) (MPH) :	100
WIND RISK CATEGORY :	II
IMPORTANCE FACTOR (Iw) :	1.0
EXPOSURE CATEGORY :	B
INTERNAL PRESSURE COEFF. (GC_{pi}) :	±0.18
TOPOGRAPHIC FACTOR (K_{zt}) :	1.3

SEISMIC LOAD: (IBC 1613)

SEISMIC RISK CATEGORY :	II
SEISMIC IMPORTANCE FACTOR (Iw) :	1.0
MAPPED SPECTRAL RESPONSE :	
S_{DS}: 1.407	S_{D1}: 0.484
SITE CLASS :	D (DEFAULT)
SPECTRAL RESPONSE COEFF. :	
S_{DS}: 1.126	S_{D1}: 0.540
SEISMIC DESIGN CATEGORY:	D
BASIC SEISMIC-FORCE-RESISTING SYS :	LIGHT FRAMED WALLS w/WOOD STRUCTURAL PANELS
ULTIMATE BASE SHEAR:	TRANS: 18 K LONG: 18 K
SEISMIC RESPONSE COEFF. (C_s) :	TRANS: 0.173 LONG: 0.173
RESPONSE MODIFICATION FACTOR (R) :	TRANS: 6.5 LONG: 6.5
ANALYSIS PROCEDURE USED:	EQUIVALENT LATERAL FORCE

LATERAL BRACING NOTES

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

110 MPH WIND IN 2018 IRC MAP

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 FORCES, AND DOES NOT NEED TO CONFORM TO THE PRESCRIPTIVE PROVISIONS OF R602.10.

STANDARD EXTERIOR WALL SHEATHING SPECIFICATIONS

(INTERIOR WALL SPECIFICATION WHERE NOTED ON PLANS)

- 7/16" OSB OR 15/32" PLYWOOD:

  FASTEN SHEATHING W/ 2½"x0.131" NAILS @ 6"o.c. AT ALL SUPPORTED PANEL EDGES 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 PLANS.

3" o.c. EDGE NAILING

(WHERE NOTED ON PLANS)

- 7/16" OSB OR 15/32" PLYWOOD:

  ONLY AT LOCATIONS INDICATED ON PLANS - SHEATHE WALL SHOWN WITH 7/16" OSB. FASTEN SHEATHING W/ 2½"x0.131" 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.

NOTES:

1. LATERAL ANALYSIS ASSUMES STUD SPACING @ 16" o.c.
2. ALL SHEAR WALLS SHALL HAVE DOUBLE TOP PLATES FASTENED TOGETHER W/ 3"x0.131" NAILS @ 8" O.C. USE (12)3½"x0.135" NAILS AT EACH LAP SPLICE, (6) EACH SIDE OF 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

- INTERIOR BEARING WALL
- BEARING WALL ABOVE (B.W.A.), OR SHEARWALL ABOVE (S.W.A.)
- 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.
- INDICATES HOLDOWN.

RICHARD ZABEL STATE OF WASHINGTON 21031615 REGISTERED PROFESSIONAL ENGINEER

GENERAL STRUCTURAL NOTES

DESIGN PARAMETERS

- DESIGN IS BASED ON 2018 INTERNATIONAL RESIDENTIAL CODE & 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..
- BUILT-UP POSTS SHALL BE 2x4 OR 2x6 HEM FIR (HF) "STUD" GRADE LUMBER, OR BETTER, U.N.O. & SOLID WOOD COLUMNS SHALL BE SPRUCE PINE FIR (SPF) #2 GRADE LUMBER, OR BETTER, 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.
- 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=2.0x10^6 PSI
  - GLB MEMBERS - Fb(+)=2400 PSI; Fb(-)=1850 PSI; Fv=265 PSI; E=1.8x10^6 PSI; DF/DF, 24F-V4 (U.N.O.)
- ENGINEERED LUMBER POSTS TO MEET OR EXCEED THE FOLLOWING:
  - LVL MEMBERS - Fb=2400 PSI; Fc⊥=2500 PSI; E=1.8x10^6 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 1¾" 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 1 (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/ ½" LONG NAILS.

ROOF FRAMING

- FASTEN EACH ROOF TRUSS TO TOP PLATE W/ (4) 3"x0.131" TOENAILS (MIN.) & (1) '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 (1) '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 1 (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS W/ 2 ½" 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 INSTALLED 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 1-08 "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" o.c.
- 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.

seal:

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REVISIONS:

date:	initial:

JAYMARC HOMES

STRUCTURAL NOTES

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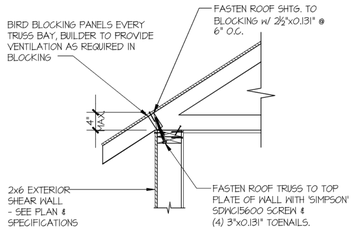
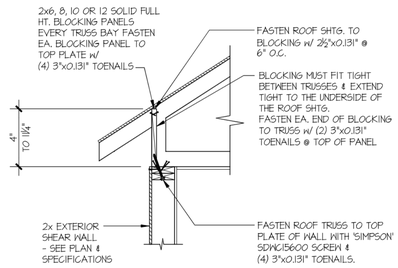
8434 SE 39TH ST
MERCER ISLAND, WASHINGTON

sheet: S-0.0



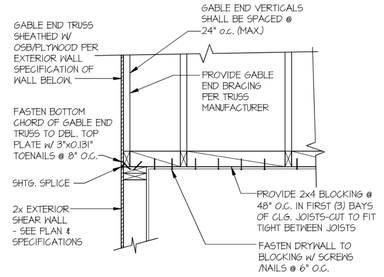
TYPICAL SHEAR TRANSFER DETAIL @ ROOF

1 SCALE: 3/4"=1'-0" HEEL HEIGHT LESS THAN 4"



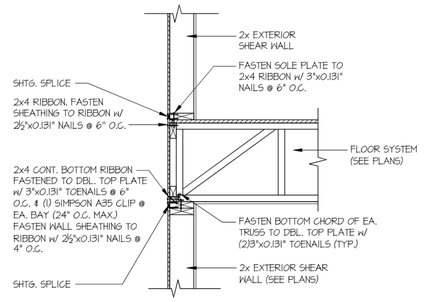
TYPICAL SHEAR TRANSFER DETAIL @ ROOF

1 SCALE: 3/4"=1'-0" HEEL HEIGHT BETWEEN 4" - 11¼"



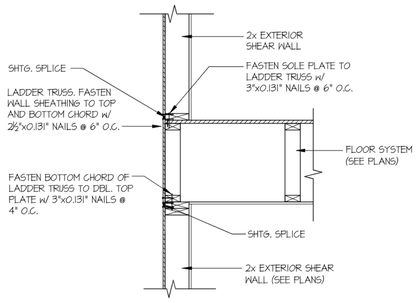
2 TYPICAL GABLE END DETAIL

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



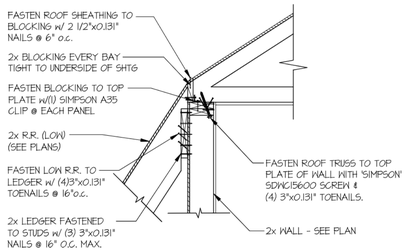
TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL

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



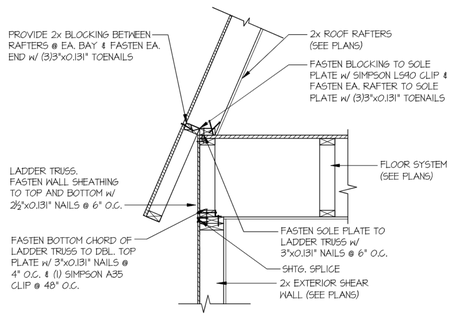
TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL

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



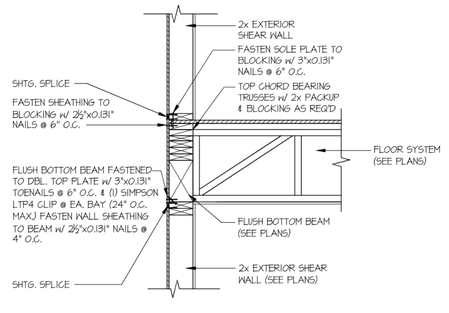
5 SECTION

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



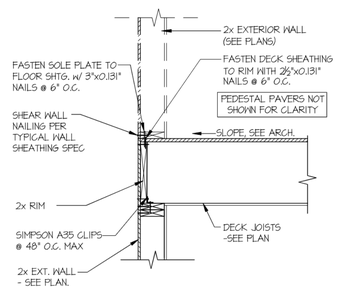
TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ EXTERIOR WALL

6 SCALE: 3/4"=1'-0" PARALLEL FRAMING



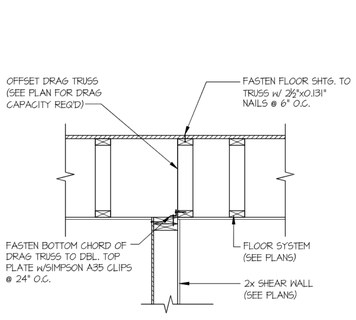
8 SECTION

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



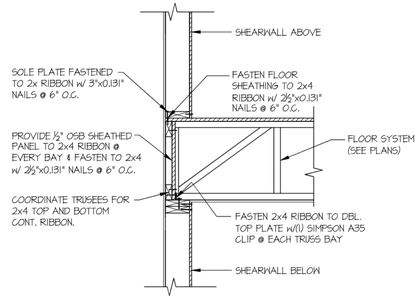
TYPICAL SHEAR TRANSFER DETAIL @ ROOF RAFTERS

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



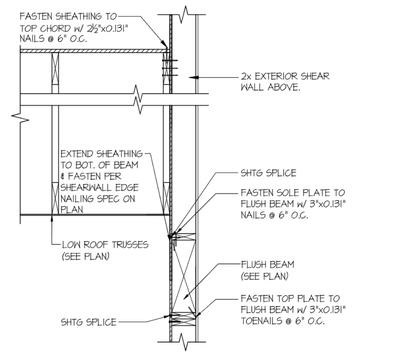
SHEAR TRANSFER DETAIL @ SHEAR WALL BELOW

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



SHEAR TRANSFER DETAIL @ INTERIOR SHEAR WALL

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



TYPICAL SHEAR TRANSFER DETAIL @ EXTERIOR WALL ABOVE FLUSH WIND BEAM

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

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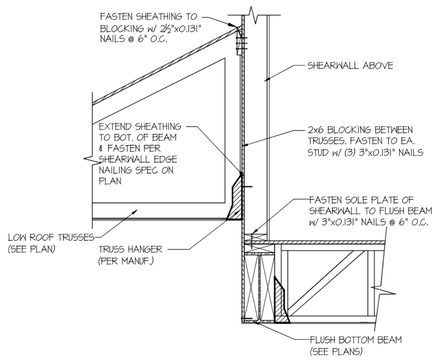
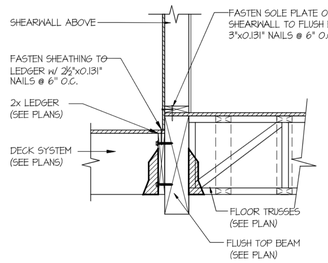
sheet:

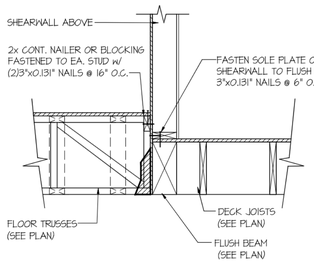
LB-1



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



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



56 SECTION
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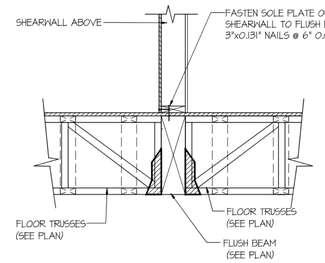

57 SECTION
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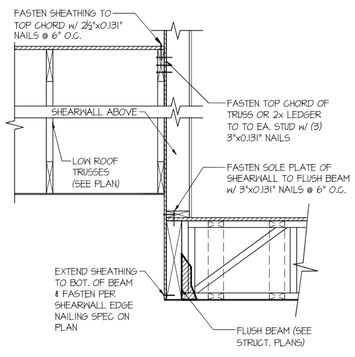
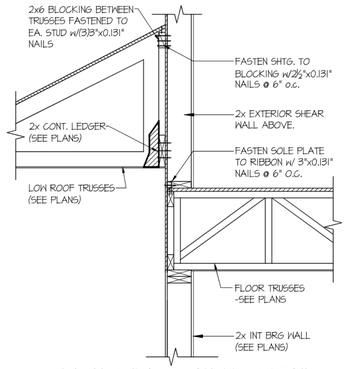
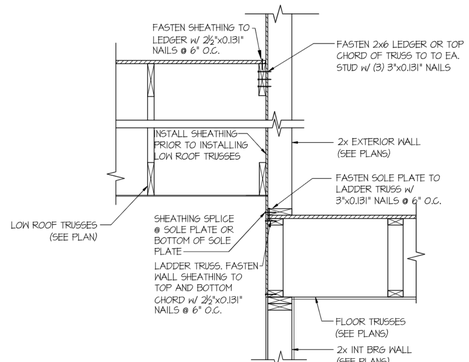


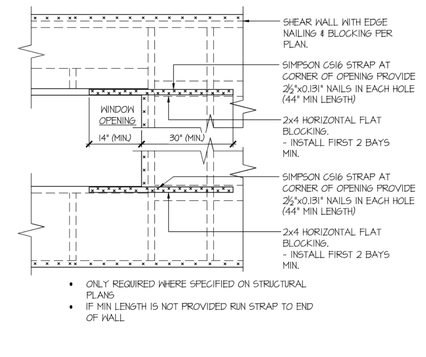
59 SHEAR TRANSFER DETAIL @ EXTERIOR SHEARWALL ABOVE
SCALE: 3/4"=1'-0"



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

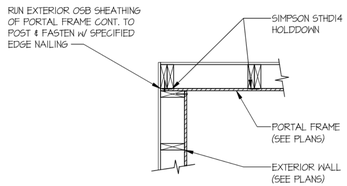


62 TYPICAL SHEAR TRANSFER DETAIL BETWEEN FLOORS @ INTERIOR WALL
SCALE: 3/4"=1'-0"

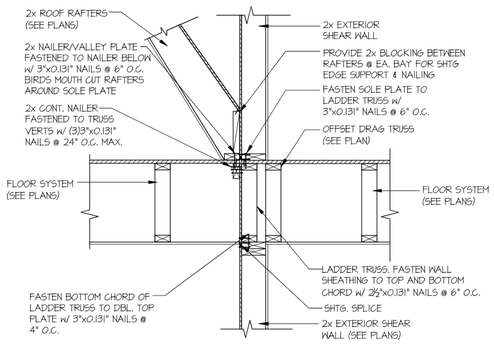


- ONLY REQUIRED WHERE SPECIFIED ON STRUCTURAL PLANS
- IF MIN LENGTH IS NOT PROVIDED RUN STRAP TO END OF WALL

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



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



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

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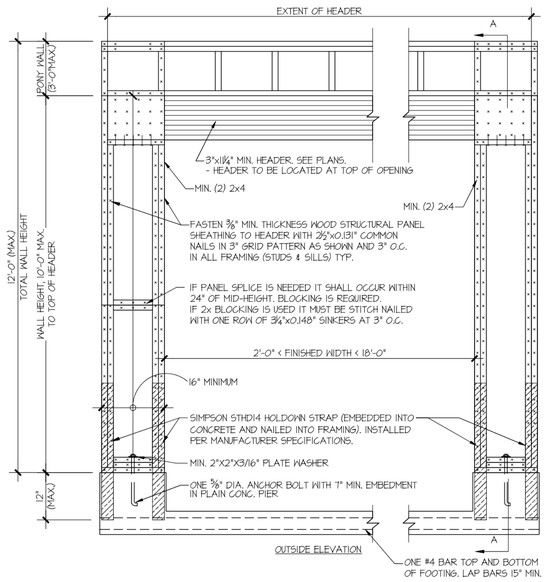
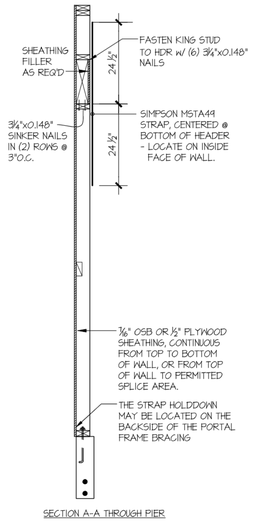
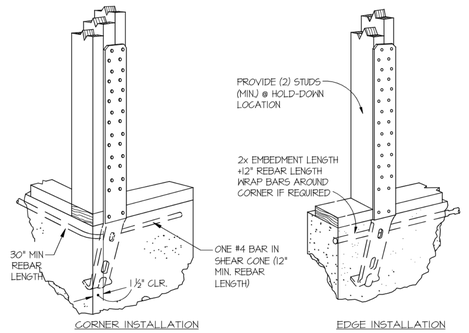
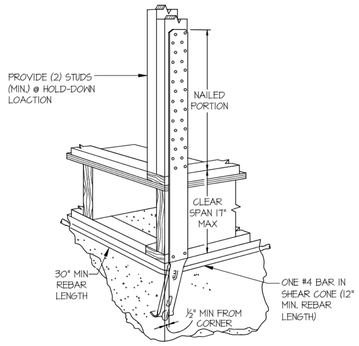




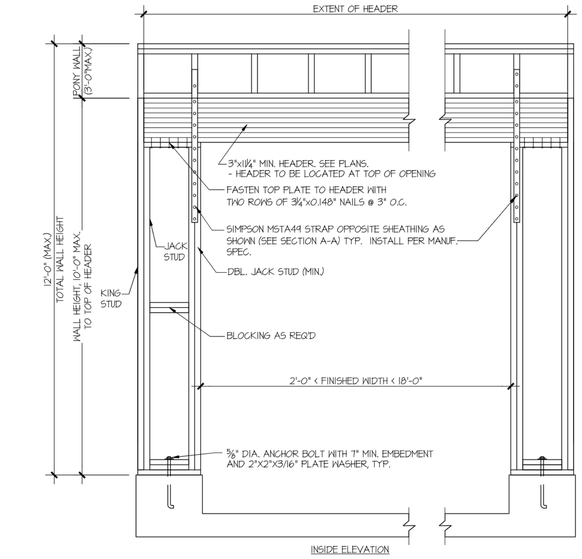
SECTION A-A THROUGH PIER

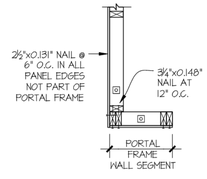


A TYPICAL HOLD-DOWN INSTALLATION
NOT TO SCALE — SIMPSON STHD HD @ FOUNDATION



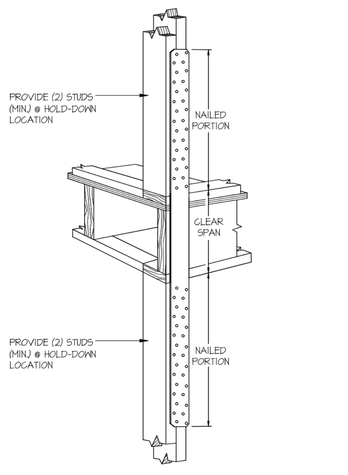
B TYPICAL HOLD-DOWN INSTALLATION
NOT TO SCALE — SIMPSON STHD HD @ FLOOR FRAMING



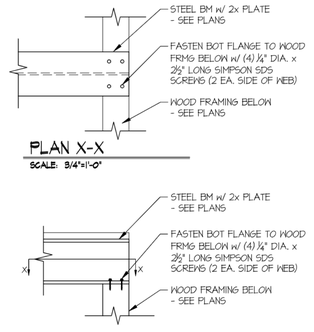


PLAN VIEW OF CORNER DETAIL

1 APA PORTAL FRAME DETAIL WITH HOLDOWNS
SCALE: N.T.S.



C TYPICAL HOLD-DOWN INSTALLATION
NOT TO SCALE — SIMPSON STRAP HD @ FLOOR FRAMING



D STL BM TO WOOD FRMG CONNECTION
SCALE: 3/4"=1'-0"

seal: RICHARD ZABEL STATE OF WASHINGTON 21031615 REGISTERED PROFESSIONAL ENGINEER

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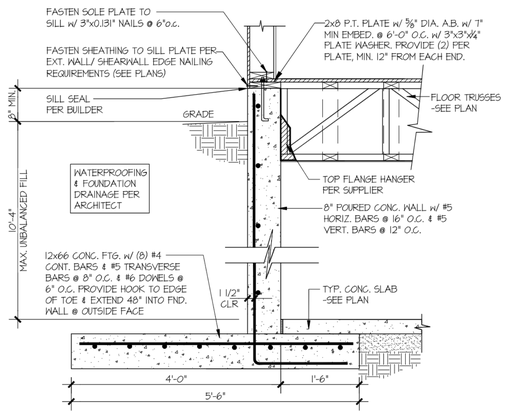
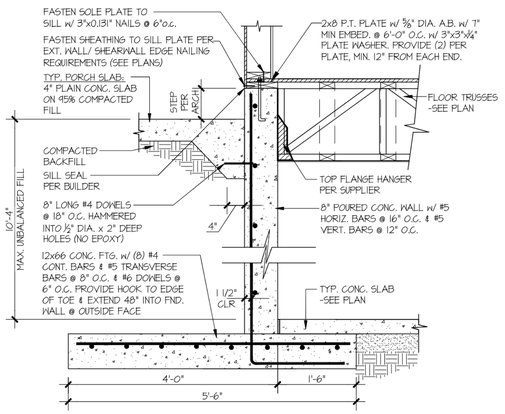
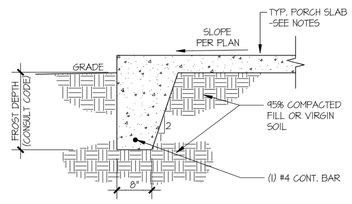


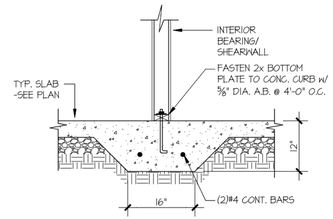
1 TYPICAL BASEMENT WALL @ GRADE
SCALE: 3/4"=1'-0"



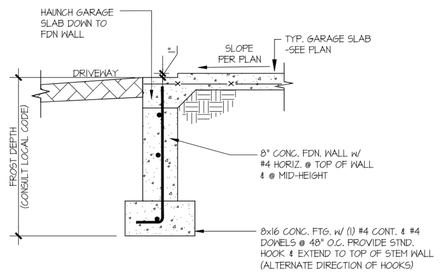
2 TYPICAL BASEMENT WALL @ PORCH
SCALE: 3/4"=1'-0"



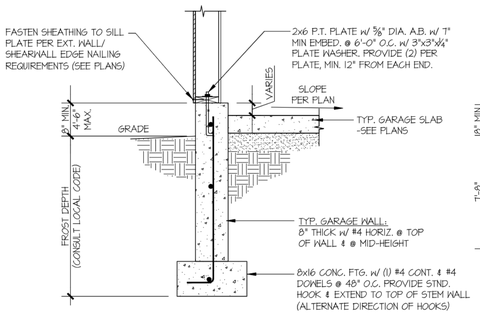
3 TYPICAL FOOTING @ PORCH SLAB
SCALE: 3/4"=1'-0"



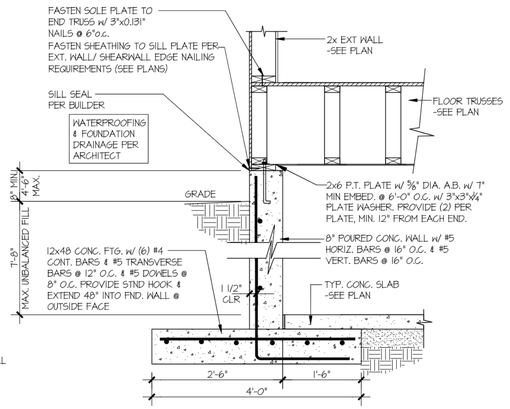
4 TYPICAL THICKENED SLAB @ INTERIOR BEARING WALL
SCALE: 3/4"=1'-0"



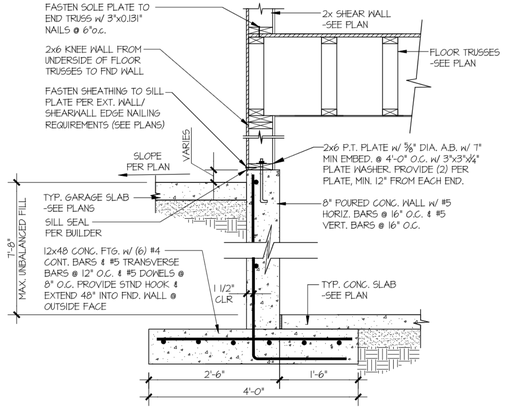
5 TYPICAL CONCRETE FOOTING @ GARAGE DOOR OPENING
SCALE: 3/4"=1'-0"



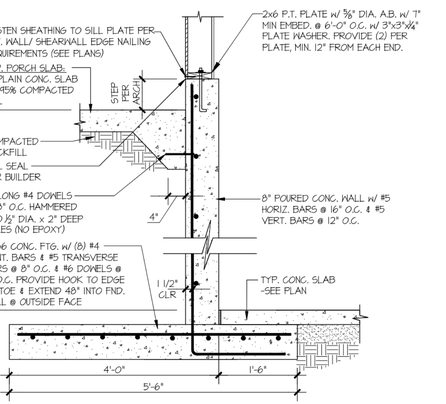
6 TYPICAL EXT. GARAGE FOUNDATION
SCALE: 3/4"=1'-0"



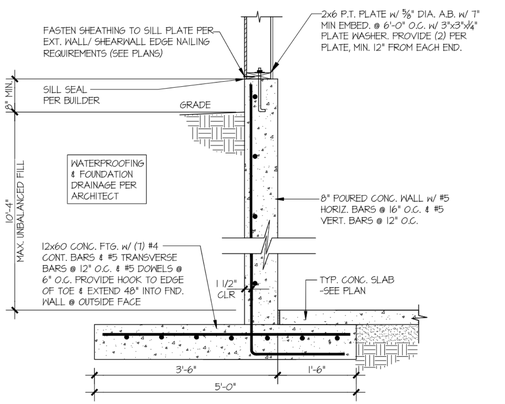
7 TYPICAL BASEMENT WALL @ DRIVEWAY
SCALE: 3/4"=1'-0"



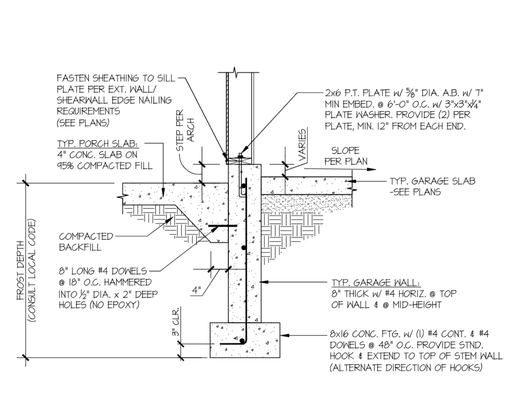
8 TYPICAL BASEMENT WALL @ GARAGE
SCALE: 3/4"=1'-0"



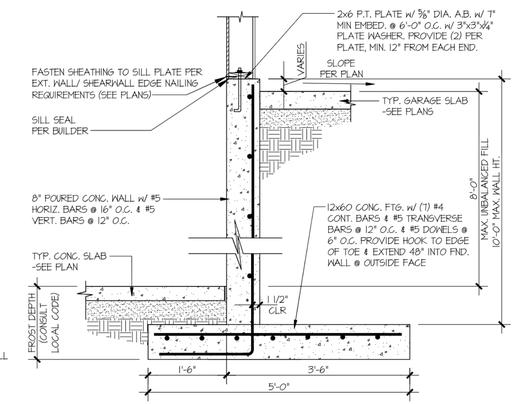
9 BASEMENT STAIR WALL @ PORCH
SCALE: 3/4"=1'-0"



10 BASEMENT STAIR WALL @ GRADE
SCALE: 3/4"=1'-0"



11 EXT. GARAGE FOUNDATION @ PORCH
SCALE: 3/4"=1'-0"



12 REVERSE RETAINING @ GARAGE
SCALE: 3/4"=1'-0"

seal:
RICHARD ZABEL
STATE OF WASHINGTON
21031615
REGISTERED
PROFESSIONAL ENGINEER

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING
300 Brookside Ave, Building 4 • Ambler, PA 19002
p 215-646-8001 • mulhernkulp.com

M&K project number: 154-23001

project mgr:	RJZ
drawn by:	AJC
issue date:	5-05-23

REVISIONS:

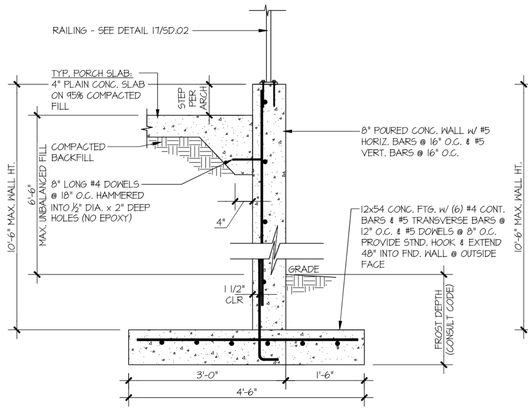
date:	initial

JAYMARC HOMES

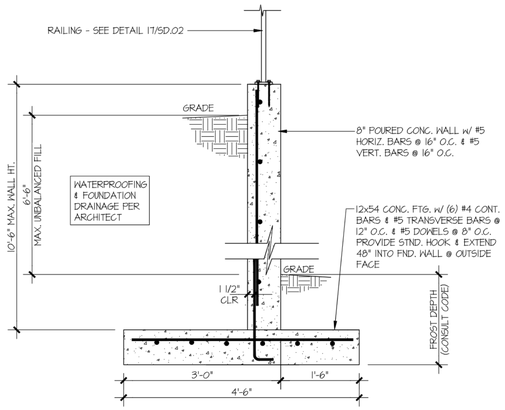
STRUCTURAL DETAILS

DUBEY RESIDENCE
8434 SE 39TH ST
MERCER ISLAND, WASHINGTON

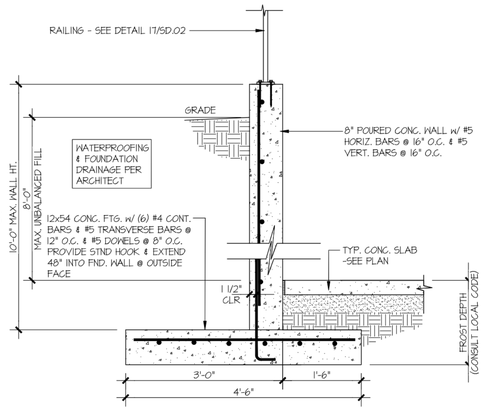
sheet:
SD.01



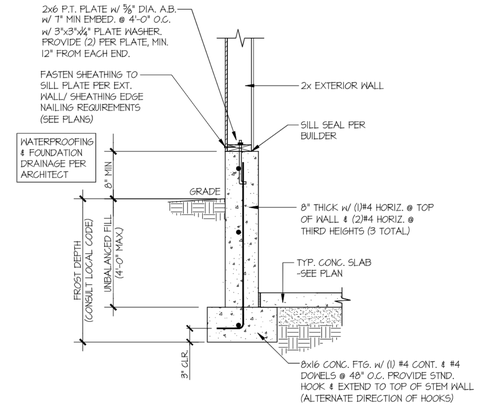
13 SITE RETAINING WALL @ PORCH
SCALE: 3/4"=1'-0"



14 SITE RETAINING WALL @ GRADE
SCALE: 3/4"=1'-0"



15 SITE RETAINING WALL @ LOW PATIO
SCALE: 3/4"=1'-0"

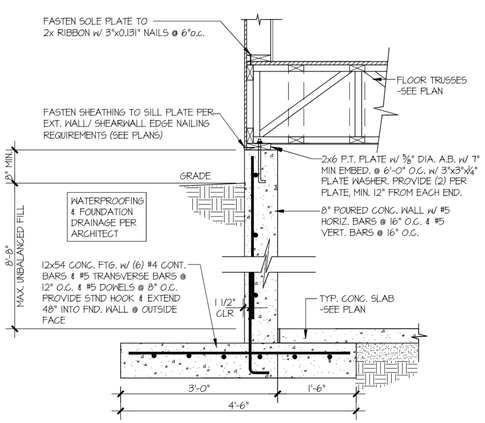


16 LOW BASEMENT FOUNDATION WALL
SCALE: 3/4"=1'-0"

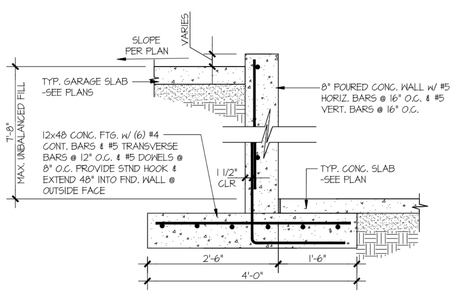
17 TYP. RAILING CONNECTION
SCALE: 3/4"=1'-0"
CONC. WALL BELOW

18 TYPICAL STEPPED FOOTING
SCALE: 3/4"=1'-0"

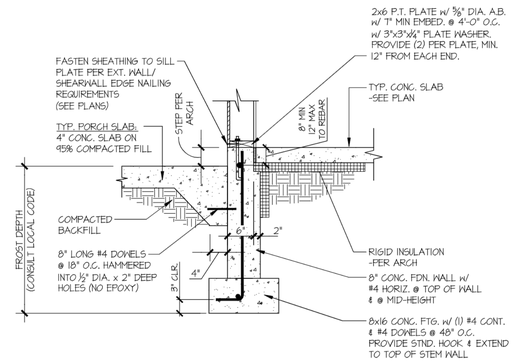
X-X SECTION
SCALE: 3/4"=1'-0"



19 TYPICAL BASEMENT WALL @ GRADE
SCALE: 3/4"=1'-0"



20 BASEMENT WALL @ GARAGE STAIRS
SCALE: 3/4"=1'-0"



TYPICAL SLAB ON GRADE PERIMETER FOOTING
SCALE: 3/4"=1'-0"
@ PORCH SLAB

21

seal:
RICHARD ZABEL
STATE OF WASHINGTON
21031615
REGISTERED PROFESSIONAL ENGINEER

MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING
300 Brookside Ave, Building 4 • Ambler, PA 19002
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M&K project number: 154-23001

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REVISIONS:

date:	initial:

JAYMARC HOMES

STRUCTURAL DETAILS

DUBEY RESIDENCE
8434 SE 39TH ST
MERCER ISLAND, WASHINGTON

sheet:
SD.02

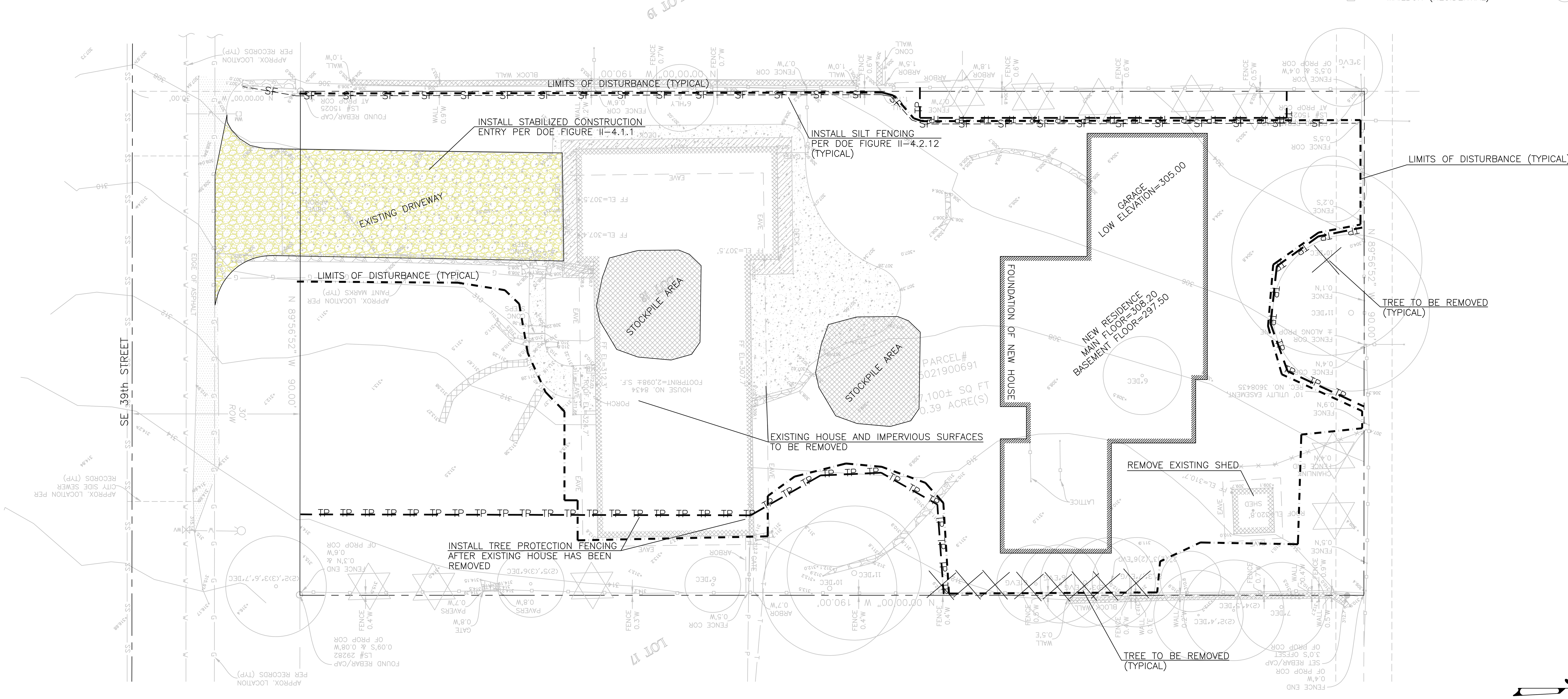
A PORTION OF THE SW 1/4, OF THE SW 1/4, OF SECTION 07, TOWNSHIP 24 N., RANGE 5 EAST, W.M., KING COUNTY, WASHINGTON

EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILIITES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES

CALL BEFORE YOU DIG: 811

LEGEND

- ASPHALT SURFACE
- BRICK SURFACE
- BUILDING
- CENTERLINE ROW
- CLEANOUT
- CULVERT PIPE
- CONCRETE SURFACE
- RETAINING WALL
- DECK
- FENCE LINE (CHAIN LINK)
- FENCE LINE (WOOD)
- GAS METER
- GRAVEL SURFACE
- HEDGE FOLIAGE LINE
- INLET (TYPE 1)
- MAILBOX (RESIDENTIAL)
- EXISTING SPOT ELEVATIONS
- MONUMENT IN CASE (FOUND)
- POWER METER
- POWER (OVERHEAD)
- POWER POLE
- REBAR AS NOTED (FOUND)
- REBAR & CAP (SET)
- ROCKERY
- SEWER LINE
- SEWER MANHOLE
- STORM DRAIN LINE
- TELEPHONE (OVERHEAD)
- TELEPHONE SENTRY
- WATER METER
- POWER TRANSFORMER POLE
- TREE (AS NOTED)



GRAPHIC SCALE

0 5 10 20

1 inch = 10 feet

TABLE OF CONTENT

PERMIT #: 2306-157

DESCRIPTION | DATE | REV. NO.

04/04/2024

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

DESIGNED BY DLO | DRAWN BY SLM | CHECKED BY DLO

PROJECT: **8434 SE 39th Street**

CLIENT: **JayMarc Custom Homes - Dubey Residence**

SHEET CONTENT: **Temp. Erosion & Sedmientation Control Plan**

DATE 04/04/2024

JOB NO.

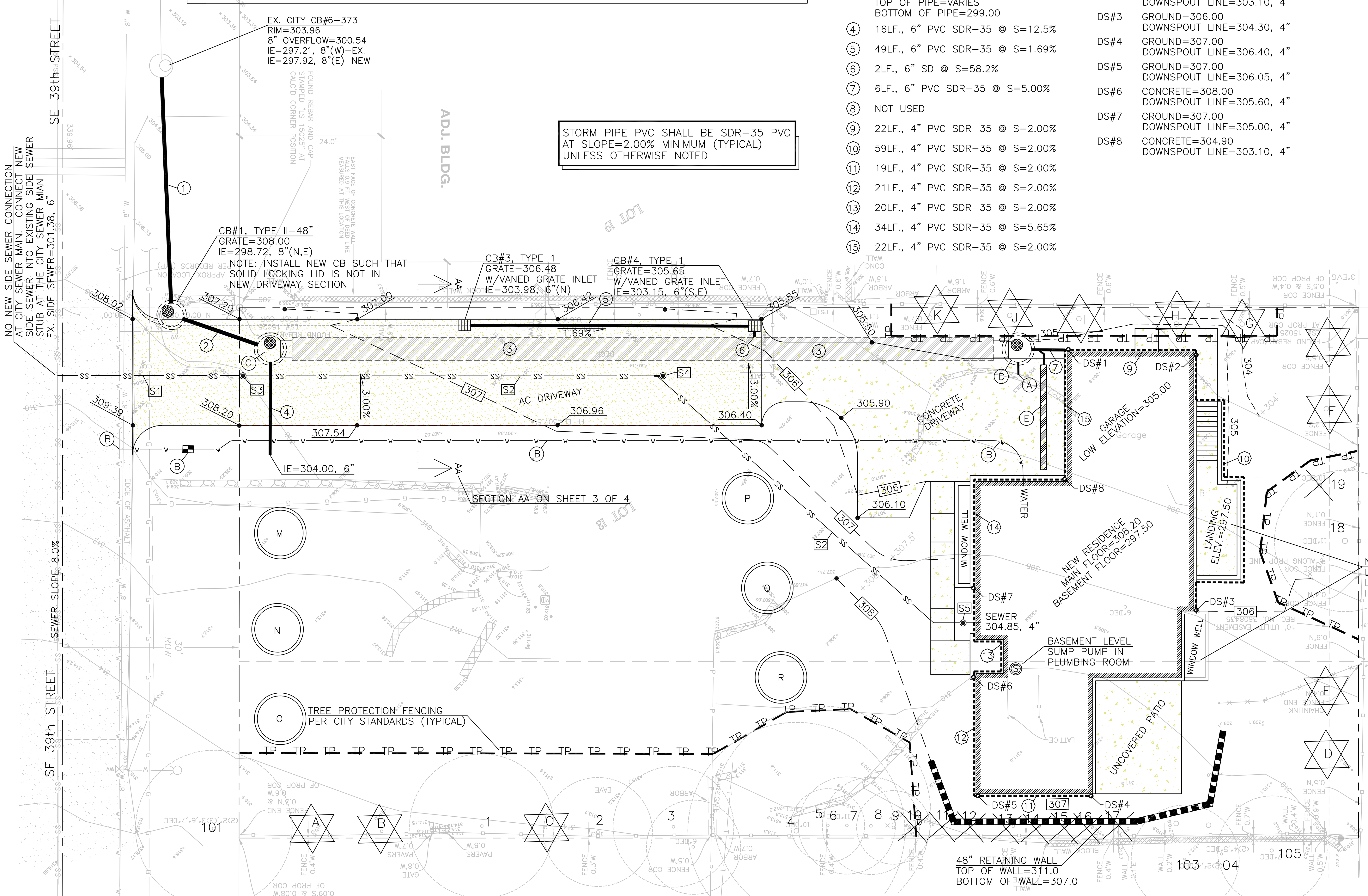
DWG NO.

SHEET 1 OF 4

A PORTION OF THE SW 1/4, OF THE SW 1/4, OF SECTION 07, TOWNSHIP 24 N., RANGE 5 EAST, W.M., KING COUNTY, WASHINGTON

NOTE: THE LAWN AND LANDSCAPE AREAS ARE REQUIRED TO PROVIDE POST-CONSTRUCTION SOIL QUALITY AND DEPTH IN ACCORDANCE WITH BMP T5.13. THE PROJECT CIVIL ENGINEER MUST PROVIDE A LETTER OF CERTIFICATION TO ENSURE THAT THE LAWN AND LANDSCAPE AREAS ARE MEETING THE POST-CONSTRUCTION SOIL QUALITY AND DEPTH REQUIREMENTS SPECIFIED ON THE APPROVED PLAN SET PRIOR TO FINAL INSPECTION OF THE PROJECT.

STORM PIPE PVC SHALL BE SDR-35 PVC AT SLOPE=2.00% MINIMUM (TYPICAL) UNLESS OTHERWISE NOTED



STORM PIPE TABLE

1. 40LF., 8" PVC SDR-35 @ S=2.00%
2. 14LF., 8" PVC SDR-35 @ S=2.00%
3. 119LF., 48" CMP @ S=0.50%
   TOP OF PIPE=VARIES
   BOTTOM OF PIPE=299.00
4. 16LF., 6" PVC SDR-35 @ S=12.5%
5. 49LF., 6" PVC SDR-35 @ S=1.69%
6. 2LF., 6" SD @ S=58.2%
7. 6LF., 6" PVC SDR-35 @ S=5.00%
8. NOT USED
9. 22LF., 4" PVC SDR-35 @ S=2.00%
10. 59LF., 4" PVC SDR-35 @ S=2.00%
11. 19LF., 4" PVC SDR-35 @ S=2.00%
12. 21LF., 4" PVC SDR-35 @ S=2.00%
13. 20LF., 4" PVC SDR-35 @ S=2.00%
14. 34LF., 4" PVC SDR-35 @ S=5.65%
15. 22LF., 4" PVC SDR-35 @ S=2.00%

DOWNSPOUT TABLE

DS#1	GROUND=304.50 DOWNSPOUT LINE=302.64, 4"
DS#2	CONCRETE=304.50 DOWNSPOUT LINE=303.10, 4"
DS#3	GROUND=306.00 DOWNSPOUT LINE=304.30, 4"
DS#4	GROUND=307.00 DOWNSPOUT LINE=306.40, 4"
DS#5	GROUND=307.00 DOWNSPOUT LINE=306.05, 4"
DS#6	CONCRETE=308.00 DOWNSPOUT LINE=305.60, 4"
DS#7	GROUND=307.00 DOWNSPOUT LINE=305.00, 4"
DS#8	CONCRETE=304.90 DOWNSPOUT LINE=303.10, 4"

EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILIITES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES

CALL BEFORE YOU DIG: 811

LEGEND

- ASPHALT SURFACE
- BRICK SURFACE
- BUILDING
- CENTERLINE ROW
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- RETAINING WALL
- DECK
- FENCE LINE (CHAIN LINK)
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- INLET (TYPE 1)
- MAILBOX (RESIDENTIAL)
- EXISTING SPOT ELEVATIONS
- MONUMENT IN CASE (FOUND)
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- POWER (OVERHEAD)
- POWER POLE
- REBAR AS NOTED (FOUND)
- REBAR & CAP (SET)
- ROCKERY
- SEWER LINE
- SEWER MANHOLE
- STORM DRAIN LINE
- TELEPHONE (OVERHEAD)
- TELEPHONE SENTRY
- WATER METER
- POWER TRANSFORMER POLE
- TREE (AS NOTED)

8434 SE 39th Tree Table

Tree ID	Common Name	DBH	Multi	Health	Condition	Dripline	Category	Retain?
1	Crabapple	11.7	Yes	1	1	12.0	Sig	Yes
2	Fruiting Pear	5		1	2	9.0	Small	Yes
3	Crabapple	8		1	2	10.0	Sig	Yes
4	Pacific Dogwood	10.5		2	1	18.0	Exc	Yes
5	Pacific Dogwood	11.5		2	1	18.0	Exc	Yes
6	Japanese Cedar	7.8	Yes	1	2	6.0	Small	Yes
7	Japanese Cedar	7.6	Yes	1	2	8.0	Small	Yes
8	Japanese Cedar	7	Yes	1	2	7.0	Small	Yes
9	Japanese Cedar	6.7	Yes	1	2	6.0	Small	Yes
10	Japanese Cedar	8.9	Yes	1	2	6.0	Small	No
11	Japanese Cedar	11.3	Yes	1	2	6.0	Sig	No
12	Japanese Cedar	7	Yes	1	2	7.0	Small	No
13	Japanese Cedar	10.4	Yes	1	2	8.0	Sig	No
14	Japanese Cedar	10.3	Yes	1	2	8.0	Sig	No
15	Japanese Cedar	12.6	Yes	1	2	8.0	Sig	No
16	Japanese Cedar	8.5	Yes	1	2	9.0		No
17	Japanese Cedar	10	Yes	1	2	9.0	Sig	No
18	Mountain Ash	14	Yes	1	2	14.0	Sig	Yes
19	Red maple	17.4		1	1	15.0	Sig	No
	TOTALS							

OFFSITE								
101	Common Hawthorn	8.5	ROW			13.0	Sig	Yes
102	Common Hawthorn	NOT MAPPED		ROW		13.0	Sig	Yes
103	Bitter Cherry	?				OH 14	Sig	Yes
104	Bitter Cherry	?				OH 14	Sig	Yes
105	Bitter Cherry	?				OH 14	Sig	Yes

Id	Common Name	DBH	Multi	Health	Structural Condition	Dripline	Tree Size Category	Retain?	Replacements
A	Thunder Cloud Plum	1.5				5.0		Yes	
B	Thunder Cloud Plum	1.5				5.0		Yes	
C	Thunder Cloud Plum	1.5				5.0		Yes	
D	Himalayan cedar	1.5				5.0		no	Vine Maple
E	Himalayan cedar	1.5				5.0		no	Vine Maple
G	Himalayan cedar	1.5				5.0		no	Pacific Crabapple
F	Thunder Cloud Plum	2				5.0		Yes	
H	Himalayan cedar	2.5				5.0		no	Bitter Cherry
I	Himalayan cedar	2				5.0		no	Vine Maple
J	Himalayan cedar	2				5.0		Yes	
K	Himalayan cedar	2				5.0		Yes	
L	Thunder Cloud Plum	2				7.0		no	Cascerra
	12 Trees								

New Replacement Trees

Tree ID	Common Name
M	Pacific Crabapple
N	Bitter Cherry
O	Vine Maple
P	Pacific Crabapple
Q	Vine Maple
R	Vine Maple

Twelve Trees are Required
Only room for six
Will need to pay fee for the remainder

4" FOUNDATION DRAIN REQUIRED BUT NOT SHOWN, GRAVITY FOUNDATION DRAIN AT 303.75 AND ABOVE CAN CONNECT AT POINT A; ANY DRAIN OR FOUNDATION DRAIN BELOW 303.75 WILL NEED TO BE PUMPED TO GRAVITY DOWNSPOUT LINE. BASEMENT LEVEL SUMP SHOWN ON PLAN.

NOTES:

(A) 4" FOUNDATION DRAIN

(B) INSTALL 1" METER AND 1-1/2" SERVICE LINE PER CITY OF MERCER ISLAND STANDARD PLAN W-14.
NOTE (A): CONTRACTOR TO COORDINATE FINAL LOCATION OF NEW METER WITH CITY OF MERCER ISLAND INSPECTOR AT TIME OF CONSTRUCTION
NOTE (B): FINAL METER SIZE AND SERVICE LINE SIZE TO BE DETERMINED BY MECHANICAL CONTRACTOR INSTALLING FIRE SPRINKLER SYSTEM

(C) CB#2, CONTROL STRUCTURE, TYPE II-54"ø
((SEE DETAIL ON SHEET 3 OF 4))
W/SOLID LOCKING LID
RIM=307.57
OVERFLOW=303.62, 8"(TOP OF TEE)
IE=302.00, 6"(E) - FUTURE LOT 1 CONNECTION
IE=299.00, 8"(SW), 36"(N)
ELEV.=297.00, 8"(BOTTOM OF TEE)
INSIDE BOTTOM=295.00

(D) CB#5, TYPE II-54"ø
W/SOLID LOCKING LID
RIM=305.00
IE=302.30, 6"(N), 4"(E)
IE=299.62, 36"(S)

(E) 18' SLOT DRAIN
GRATE=304.90
IE=303.75, 4"(W)

SIDE SEWER NOTES

S1 INSTALL 32LF., 6" PVC SIDE SEWER @ S=2.00%
NOTE: IF CITY INSPECTOR ALLOWS THE USE OF THE EXISTING 6" SIDE SEWER FROM PROPERTY LINE TO THE CITY SEWER MAIN AND THE EXISTING SIDE SEWER ELEVATION IS AT 302.02, THEN SEWER SECTION S1 IS NOT NECESSARY. START NEW SIDE SEWER AT S3 WITH CLEAN OUT.

S2 INSTALL 137LF., 4" PVC SIDE SEWER @ S=2.00%

S3 SANITARY SEWER CLEANOUT W/TRAFFIC BEARING FRAME AND LID
LID=307.75
IE=302.02, 6"

S4 SANITARY SEWER CLEANOUT W/TRAFFIC BEARING FRAME AND LID
LID=306.45
IE=303.42, 4"

S5 SANITARY SEWER CLEANOUT
LID=307.00
IE=304.75, 4"

EXISTING REPLACEMENT TREES (TYP.)

PROPOSED REPLACEMENT TREES (TYP.)

DETENTION TANK IMPERVIOUS SURFACES
LOT 1 (FUTURE LOT - FRONT)
ADDITIONAL IMPERVIOUS AREA=2,230 SQ. FT.

THIS BUILDING PERMIT
IMPERVIOUS AREAS = 5,769 SQ. FT.

TOTAL PROPOSED IMPERVIOUS 7,999 SQ. FT. ON ENTIRE PROPERTY

DETENTION TANK SIZED FOR: 8,000 SQ. FT.

IMPERVIOUS SURFACES:
ROOF AREA (UNDER EAVES): 2,184 SQ. FEET
UNCOVERED DRIVEWAY: 2,928 SQ. FEET
UNCOVERED PATIO: 279 SQ. FEET
UNCOVERED WALKWAY: 378 SQ. FEET
TOTAL IMPERVIOUS AREAS = 5,769 SQ. FEET

LANDSCAPE AREAS NOTE:
DISTURBED LANDSCAPE AREAS SHALL BE TREATED AS AMENDED SOILS PER DOE FIGURE V-5.3.3, TYPICAL

GRAPHIC SCALE
0 5 10 20
1 inch = 10 feet

PERMIT #: 2306-157

REV. NO.	DATE	DESCRIPTION
3	04/04/24	REVISED PER RUJI COMMENTS DATED 01/23/2024
2	12/20/23	REVISED DETENTION TANK PER RUJI EMAIL
1	12/14/23	REVISED PER CITY COMMENTS 2306-157-SUB1

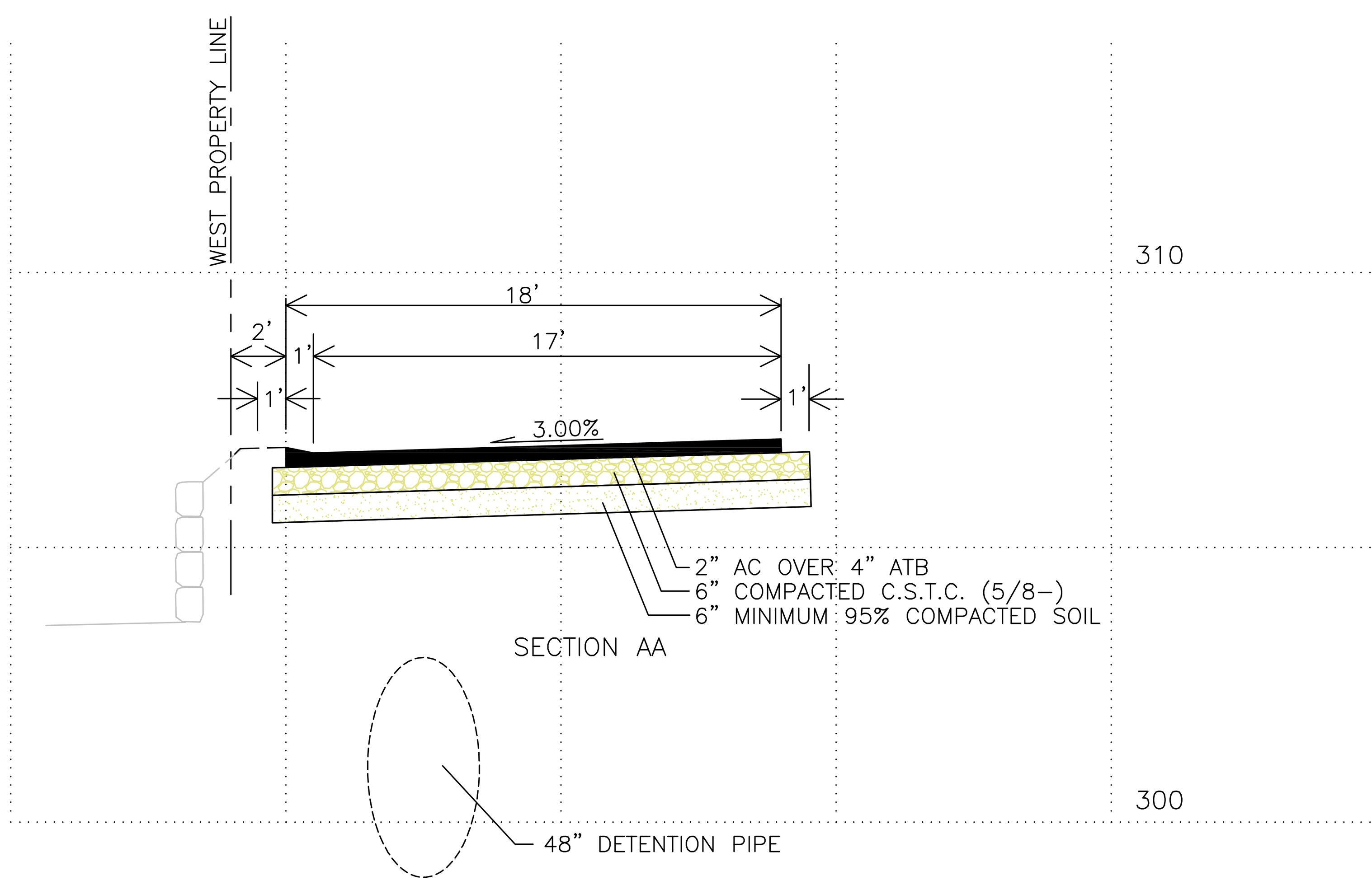
DARRELL L. OFFE, JR. — STATE OF WASHINGTON — 27460 — REGISTERED PROFESSIONAL ENGINEER — 04/04/2024

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

DESIGNED BY: DLO
DRAWN BY: SL$
CHECKED BY: DLO

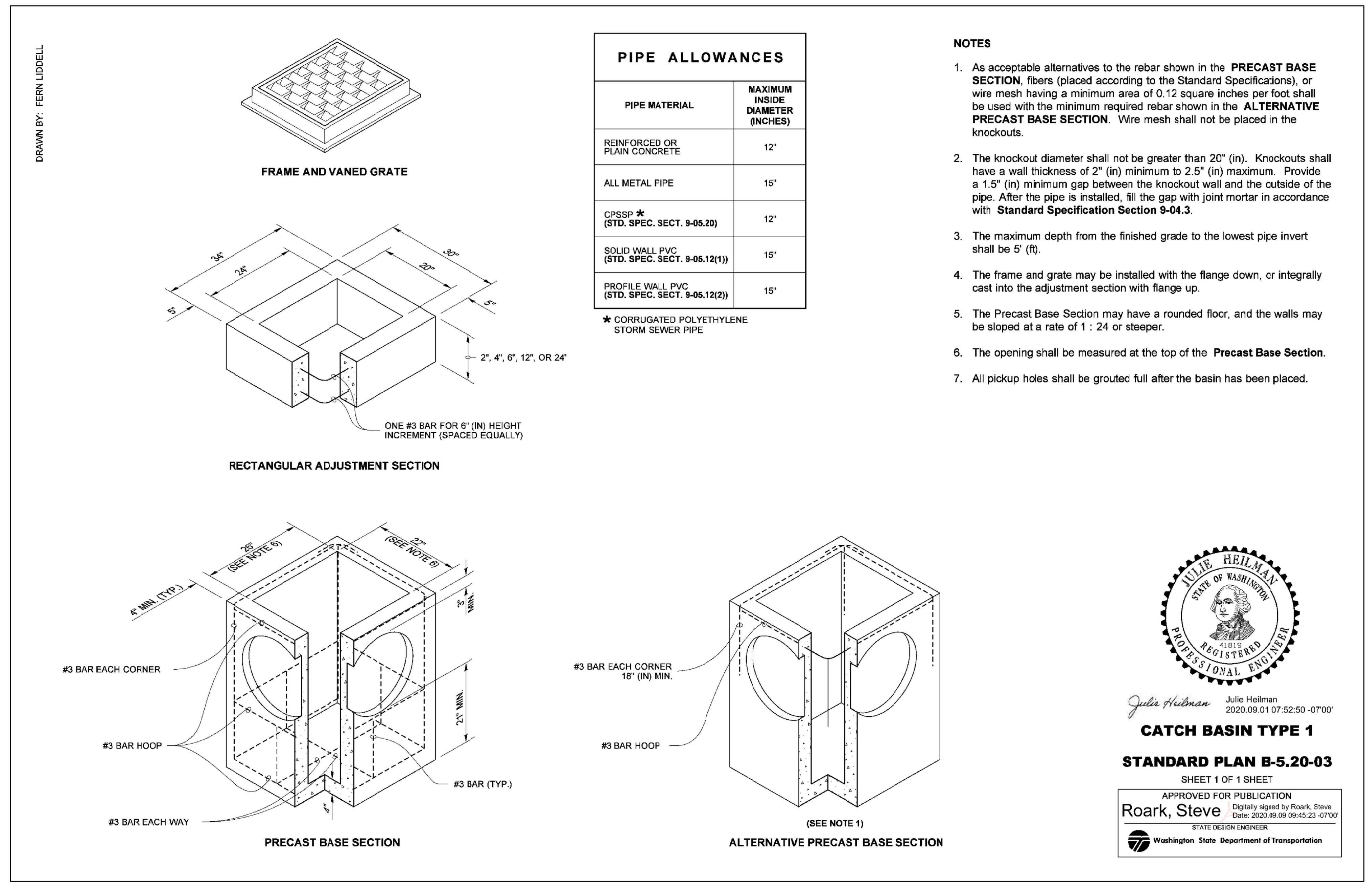
PROJECT: 8434 SE 39th Street
CLIENT: JayMarc Custom Homes - Dubey Residence
SHEET CONTENT: Utility & Tree Plan

DATE: 04/04/2024
JOB NO.
DWG NO.
SHEET 2 OF 4



SECTION AA

SCALE:
VERTICAL: 1" = 5'
HORIZONTAL: 1" = 10'



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

NOTES

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.

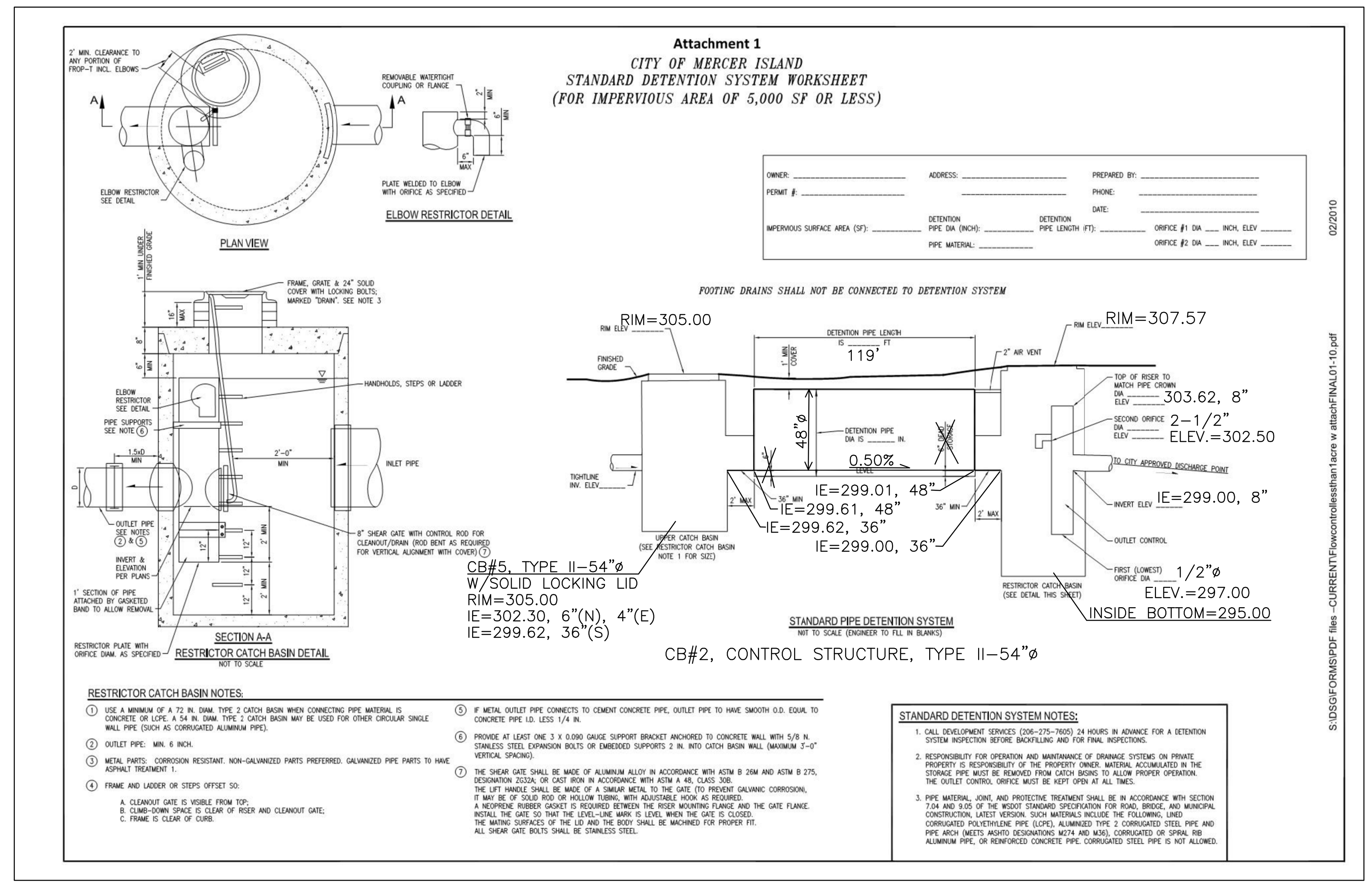
Julie Heilman
2020.09.01 07:52:50 -07'00'

CATCH BASIN TYPE 1

STANDARD PLAN B-5.20-03

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Roark, Steve
STATE DESIGN ENGINEER
Washington State Department of Transportation



PERMIT #: 2306-157

REV. NO.	DATE	DESCRIPTION
1	12/20/23	REVISED DETENTION TANK PER RUJI EMAIL 12/19/2023

04/04/2024

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

DESIGNED BY DLO | DRAWN BY SLS | CHECKED BY DLO

PROJECT
8434 SE 39th Street

CLIENT
JayMarc Custom Homes - Dubey Residence

SHEET CONTENT
Utility Details

DATE 04/04/2024
JOB NO.
DWG NO.

SHEET 3 OF 4

A PORTION OF THE SW 1/4, OF THE SW 1/4, OF SECTION 07, TOWNSHIP 24 N., RANGE 5 EAST, W.M., KING COUNTY, WASHINGTON

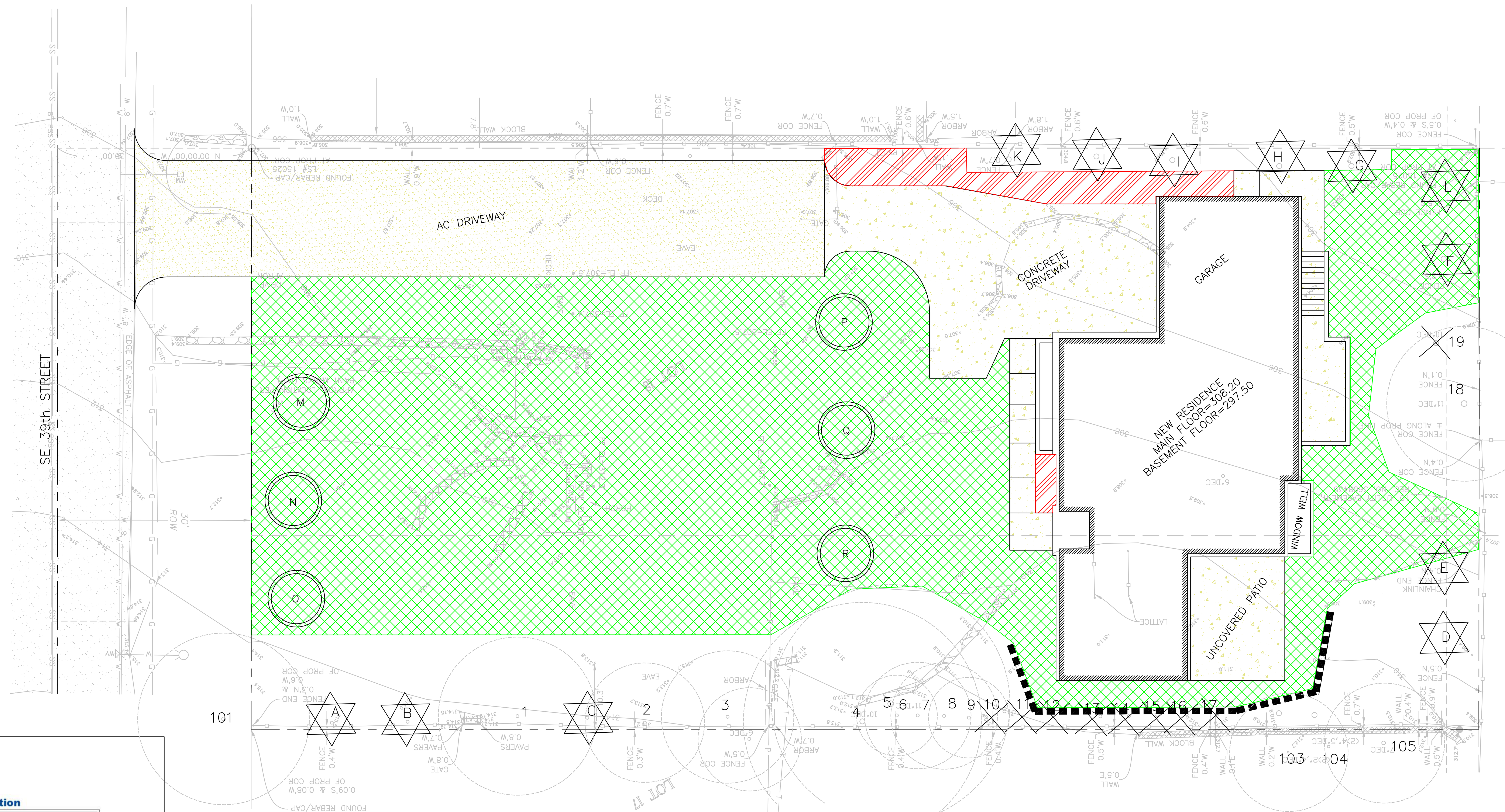
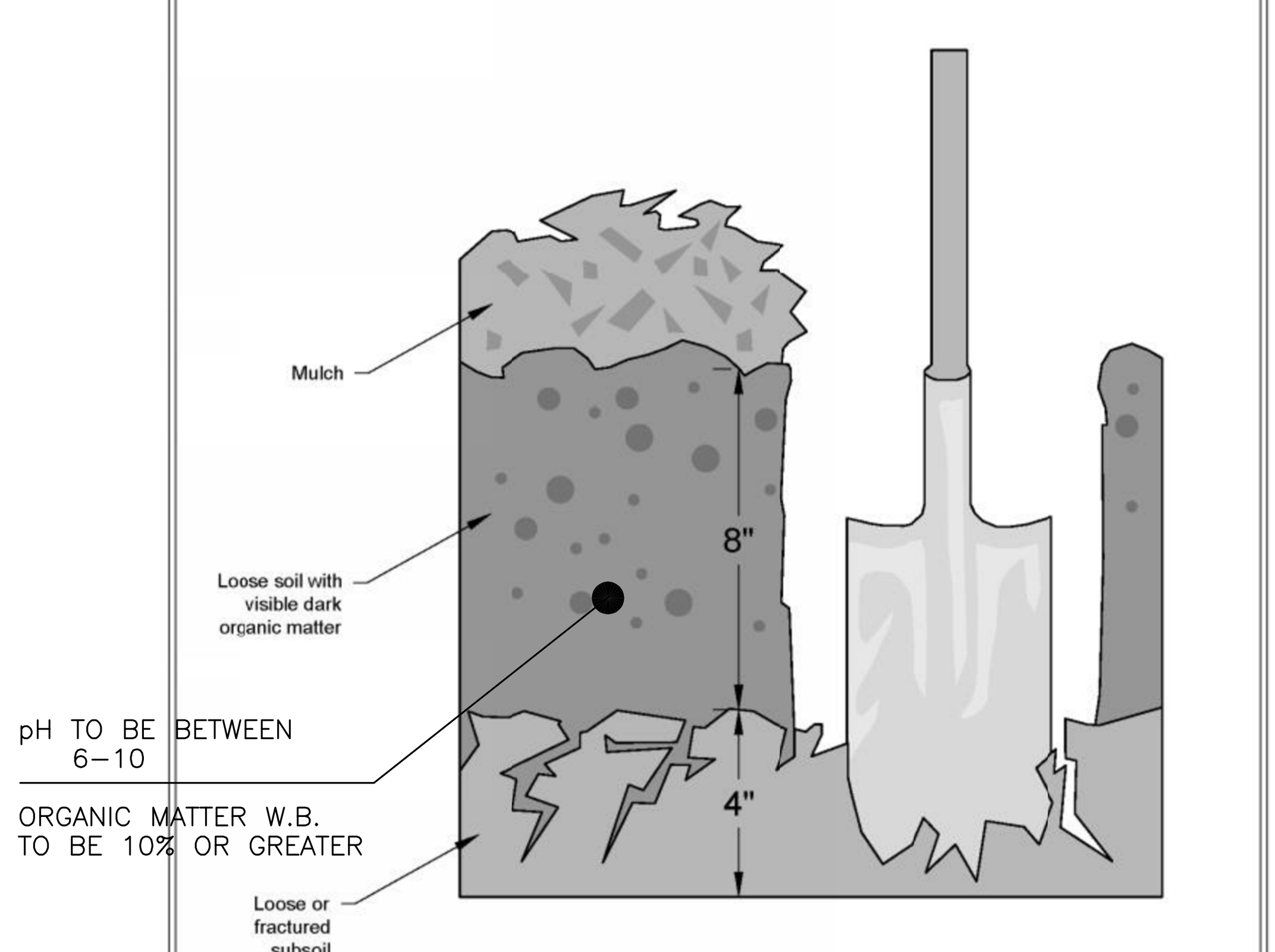


Figure V-11.1: Planting Bed Cross-Section



Reprinted from *Guidelines and Resources For Implementing Soil Quality and Depth BMP T5.13 in WDOE Stormwater Management Manual for Western Washington*, 2010, Washington Organic Recycling Council

NOT TO SCALE

DEPARTMENT OF ECOLOGY State of Washington

Planting Bed Cross-Section

Revised June 2016

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2019 Stormwater Management Manual for Western Washington

Volume V - Chapter 11 - Page 930

8434 SE 39th Tree Table

Tree ID	Common Name	DBH	Multi	Health	Condition	Dripline	Category	Retain?
1	Crabapple	11.7	Yes	1	1	12.0	Sig	Yes
2	Fruiting Pear	5		1	2	9.0	Small	Yes
3	Crabapple	8		1	2	10.0	Sig	Yes
4	Pacific Dogwood	10.5		2	1	18.0	Exc	Yes
5	Pacific Dogwood	11.5		2	1	18.0	Exc	Yes
6	Japanese Cedar	7.8	Yes	1	2	6.0	Small	Yes
7	Japanese Cedar	7.6	Yes	1	2	8.0	Small	Yes
8	Japanese Cedar	7	Yes	1	2	7.0	Small	Yes
9	Japanese Cedar	6.7	Yes	1	2	6.0	Small	Yes
10	Japanese Cedar	8.9	Yes	1	2	6.0	Small	No
11	Japanese Cedar	11.3	Yes	1	2	6.0	Sig	No
12	Japanese Cedar	7	Yes	1	2	7.0	Small	No
13	Japanese Cedar	10.4	Yes	1	2	8.0	Sig	No
14	Japanese Cedar	10.3	Yes	1	2	8.0	Sig	No
15	Japanese Cedar	12.6	Yes	1	2	8.0	Sig	No
16	Japanese Cedar	8.5	Yes	1	2	9.0		No
17	Japanese Cedar	10	Yes	1	2	9.0	Sig	No
18	Mountain Ash	14	Yes	1	2	14.0	Sig	Yes
19	Red maple	17.4		1	1	15.0	Sig	No
	TOTALS							

OFFSITE								
101	Common Hawthorn	8.5	ROW			13.0	Sig	Yes
102	Common Hawthorn	NOT MAPPED		ROW		13.0	Sig	Yes
103	Bitter Cherry	?				OH 14	Sig	Yes
104	Bitter Cherry	?				OH 14	Sig	Yes
105	Bitter Cherry	?				OH 14	Sig	Yes

Previous Replacement Trees

Id	Common Name	DBH	Multi	Health	Structural Condition	Dripline	Tree Size Category	Retain?	Replacements
A	Thunder Cloud Plum	1.5				5.0		Yes	
B	Thunder Cloud Plum	1.5				5.0		Yes	
C	Thunder Cloud Plum	1.5				5.0		Yes	
D	Himalayan cedar	1.5				5.0		no	Vine Maple
E	Himalayan cedar	1.5				5.0		no	Vine Maple
G	Himalayan cedar	1.5				5.0		no	Pacific Crabapple
F	Thunder Cloud Plum	2				5.0		Yes	
H	Himalayan cedar	2.5				5.0		no	Bitter Cherry
I	Himalayan cedar	2				5.0		no	Vine Maple
J	Himalayan cedar	2				5.0		Yes	
K	Himalayan cedar	2				5.0		Yes	
L	Thunder Cloud Plum	2				7.0		no	Cascerra
	12 Trees								

New Replacement Trees

Tree ID	Common Name
M	Pacific Crabapple
N	Bitter Cherry
O	Vine Maple
P	Pacific Crabapple
Q	Vine Maple
R	Vine Maple

Twelve Trees are Required
Only room for six
Will need to pay fee for the remainder

EXISTING REPLACEMENT TREES (TYP.)

PROPOSED REPLACEMENT TREES (TYP.)

AMENDED SOIL MAP

7,678 SQUARE FEET – TURF AREA AMENDED 12" DEEP

332 SQUARE FEET – PLANTER AREA AMENDED 8" DEEP

GRAPHIC SCALE
0 5 10 20
1 inch = 10 feet

PERMIT #: 2306–157

REV. NO.	DATE	DESCRIPTION

DARRELL L. OFFE JR. STATE OF WASHINGTON 27460 REGISTERED PROFESSIONAL ENGINEER 04/04/2024

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

DESIGNED BY DLO
DRAWN BY SL$
CHECKED BY DLO

PROJECT **8434 SE 39th Street**
CLIENT **JayMarc Custom Homes - Dubey Residence**
SHEET CONTENT **Amended Soil Map & Detail**

DATE 04/04/2024
JOB NO.
DWG NO.

SHEET 4 OF 4

TOPOGRAPHIC & BOUNDARY SURVEY

LEGAL DESCRIPTION

THE WEST HALF OF LOT 17 AND ALL OF LOT 18, BLOCK 6, MADRONA CREST ADDITION, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 42 OF PLATS, PAGE 12, RECORDS OF KING COUNTY, WASHINGTON.

SITUATE IN THE COUNTY OF KING, STATE OF WASHINGTON.

BASIS OF BEARINGS

HELD A BEARING OF NORTH BETWEEN FOUND CENTERLINE MONUMENTATION ALONG 84TH AVE SE PER PLAT

REFERENCES

R1. MERCER ISLAND SHORT PLAT 97-1066, VOL. 118, PG. 135, RECORDS OF KING COUNTY, WASHINGTON.

VERTICAL DATUM

NAVD88 PER CITY OF MERCER ISLAND BENCHMARK #2150
ELEV: 325.72'

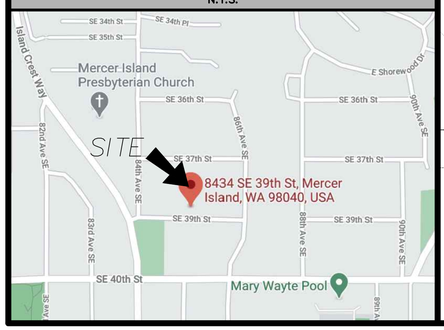
SURVEYOR'S NOTES

1. THE TOPOGRAPHIC SURVEY SHOWN HEREON WAS PERFORMED IN MARCH OF 2021. THE FIELD DATA WAS COLLECTED AND RECORDED ON MAGNETIC MEDIA THROUGH AN ELECTRONIC THEODOLITE. THE DATA FILE IS ARCHIVED ON DISC OR CD. WRITTEN FIELD NOTES MAY NOT EXIST. CONTOURS ARE SHOWN FOR CONVENIENCE ONLY. DESIGN SHOULD RELY ON SPOT ELEVATIONS.
2. ALL MONUMENTS SHOWN HEREON WERE LOCATED DURING THE COURSE OF THIS SURVEY UNLESS OTHERWISE NOTED.
3. THE TYPES AND LOCATIONS OF ANY UTILITIES SHOWN ON THIS DRAWING ARE BASED ON INFORMATION PROVIDED TO US, BY OTHERS OR GENERAL INFORMATION READILY AVAILABLE IN THE PUBLIC DOMAIN INCLUDING, AS APPLICABLE, IDENTIFYING MARKINGS PLACED BY UTILITY LOCATE SERVICES AND OBSERVED BY TERRANE IN THE FIELD. AS SUCH, THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY AND SHOULD NOT BE RELIED ON FOR DESIGN OR CONSTRUCTION PURPOSES; TERRANE IS NOT RESPONSIBLE OR LIABLE FOR THE ACCURACY OR COMPLETENESS OF THIS UTILITY INFORMATION. FOR THE ACCURATE LOCATION AND TYPE OF UTILITIES NECESSARY FOR DESIGN AND CONSTRUCTION, PLEASE CONTACT THE SITE OWNER AND THE LOCAL UTILITY LOCATE SERVICE (800-424-5555).
4. SUBJECT PROPERTY TAX PARCEL NO. 5021900691.
5. SUBJECT PROPERTY AREA PER THIS SURVEY IS 17,100± S.F. (0.39 ACRES)
6. THE PROPERTY DESCRIBED HEREON IS THE SAME AS THE PROPERTY DESCRIBED IN CHICAGO TITLE COMPANY OF WASHINGTON, COMMITMENT NO. 0202451-ETU, WITH AN EFFECTIVE DATE OF FEBRUARY 4, 2021 AND THAT ALL EASEMENTS, COVENANTS, AND RESTRICTIONS REFERENCED IN SAID TITLE COMMITMENT OR APPARENT FROM A PHYSICAL INSPECTION OF THE PROPERTY OR OTHERWISE KNOWN TO ME HAVE BEEN PLOTTED HEREON OR OTHERWISE NOTED AS TO THEIR EFFECT ON THE PROPERTY..
7. FIELD DATA FOR THIS SURVEY WAS OBTAINED BY DIRECT FIELD MEASUREMENTS WITH A CALIBRATED ELECTRONIC 5-SECOND TOTAL STATION AND/OR SURVEY GRADE GPS OBSERVATIONS. ALL ANGULAR AND LINEAR RELATIONSHIPS ARE ACCURATE AND MEET THE STANDARDS SET BY WAC 332-130-090.

LEGEND

ASPHALT SURFACE	PAVER SURFACE
BUILDING	POST
CENTERLINE ROW	POWER METER
CONCRETE SURFACE	POWER (OVERHEAD)
RETAINING WALL	POWER POLE
EASEMENT AREA	REBAR AS NOTED (FOUND)
DECK	REBAR & CAP (SET)
FENCE LINE (WIRE)	ROCKERY
FENCE LINE (WOOD)	SEWER LINE
FIRE HYDRANT	SEWER MANHOLE
GAS LINE	TELEPHONE (OVERHEAD)
GAS METER	TREE (AS NOTED)
GRAVEL SURFACE	WATER LINE
MAILBOX (RESIDENTIAL)	WATER METER
MONUMENT IN CASE (FOUND)	WATER VALVE

VICINITY MAP
N.T.S.



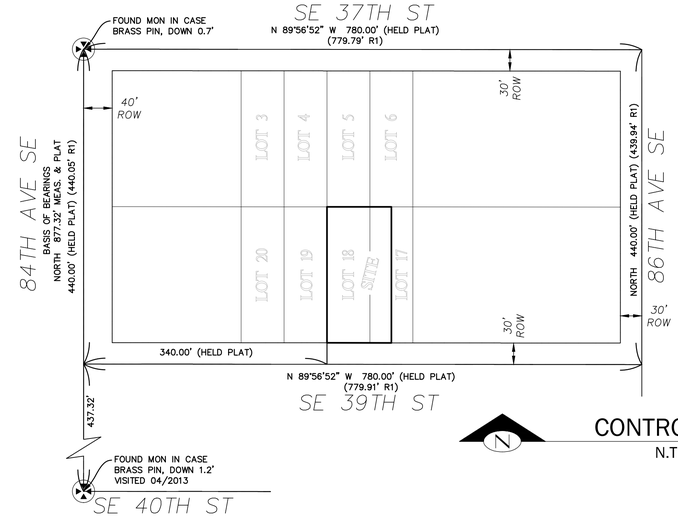
SCHEDULE B ITEMS

1. COVENANTS, CONDITIONS, RESTRICTIONS, RECITALS, RESERVATIONS, EASEMENTS, EASEMENT PROVISIONS, DEDICATIONS, BUILDING SETBACK LINES, NOTES, STATEMENTS, AND OTHER MATTERS, IF ANY, BUT OMITTING ANY COVENANTS OR RESTRICTIONS, IF ANY, INCLUDING BUT NOT LIMITED TO THOSE BASED UPON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, FAMILIAL STATUS, MARITAL STATUS, DISABILITY, HANDICAP, NATIONAL ORIGIN, ANCESTRY, OR SOURCE OF INCOME, AS SET FORTH IN APPLICABLE STATE OR FEDERAL LAWS, EXCEPT TO THE EXTENT THAT SAID COVENANT OR RESTRICTION IS PERMITTED BY APPLICABLE LAW, AS SET FORTH ON MADRONA CREST ADDITION:
   RECORDING NO: 3601309 (BLANKET IN NATURE)
2. COVENANTS, CONDITIONS, RESTRICTIONS AND EASEMENTS BUT OMITTING ANY COVENANTS OR RESTRICTIONS, IF ANY, INCLUDING BUT NOT LIMITED TO THOSE BASED UPON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, FAMILIAL STATUS, MARITAL STATUS, DISABILITY, HANDICAP, NATIONAL ORIGIN, ANCESTRY, SOURCE OF INCOME, GENDER, GENDER IDENTITY, GENDER EXPRESSION, MEDICAL CONDITION OR GENETIC INFORMATION, AS SET FORTH IN APPLICABLE STATE OR FEDERAL LAWS, EXCEPT TO THE EXTENT THAT SAID COVENANT OR RESTRICTION IS PERMITTED BY APPLICABLE LAW, AS SET FORTH IN THE DOCUMENT
   RECORDING DATE: SEPTEMBER 17, 1946
   RECORDING NO: 3608435 (SETBACKS AND EASEMENT PLOTTED- OTHER RESTRICTIONS APPLY)

   MODIFICATION(S) OF SAID COVENANTS, CONDITIONS AND RESTRICTIONS
   RECORDING DATE: OCTOBER 17, 1947
   RECORDING NO: 3735279 (BLANKET IN NATURE)
3. NOTICE OF ADDITIONAL TAP OR CONNECTION CHARGES AND THE TERMS AND CONDITIONS THEREOF:
   RECORDING DATE: DECEMBER 6, 1977
   RECORDING NO: 7712060812 (BLANKET IN NATURE)
4. COVENANTS, CONDITIONS, RESTRICTIONS, RECITALS, RESERVATIONS, EASEMENTS, EASEMENT PROVISIONS, DEDICATIONS, BUILDING SETBACK LINES, NOTES, STATEMENTS, AND OTHER MATTERS, IF ANY, BUT OMITTING ANY COVENANTS OR RESTRICTIONS, IF ANY, INCLUDING BUT NOT LIMITED TO THOSE BASED UPON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, FAMILIAL STATUS, MARITAL STATUS, DISABILITY, HANDICAP, NATIONAL ORIGIN, ANCESTRY, OR SOURCE OF INCOME, AS SET FORTH IN APPLICABLE STATE OR FEDERAL LAWS, EXCEPT TO THE EXTENT THAT SAID COVENANT OR RESTRICTION IS PERMITTED BY APPLICABLE LAW, AS SET FORTH ON SURVEY:
   RECORDING NO: 9711199012
   (CURRENT CONDITIONS SHOWN HEREON)
5. COVENANTS, CONDITIONS, RESTRICTIONS, RECITALS, RESERVATIONS, EASEMENTS, EASEMENT PROVISIONS, DEDICATIONS, BUILDING SETBACK LINES, NOTES, STATEMENTS, AND OTHER MATTERS, IF ANY, BUT OMITTING ANY COVENANTS OR RESTRICTIONS, IF ANY, INCLUDING BUT NOT LIMITED TO THOSE BASED UPON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, FAMILIAL STATUS, MARITAL STATUS, DISABILITY, HANDICAP, NATIONAL ORIGIN, ANCESTRY, OR SOURCE OF INCOME, AS SET FORTH IN APPLICABLE STATE OR FEDERAL LAWS, EXCEPT TO THE EXTENT THAT SAID COVENANT OR RESTRICTION IS PERMITTED BY APPLICABLE LAW, AS SET FORTH ON SURVEY:
   RECORDING NO: 20040623900006
   (CURRENT CONDITIONS SHOWN HEREON)

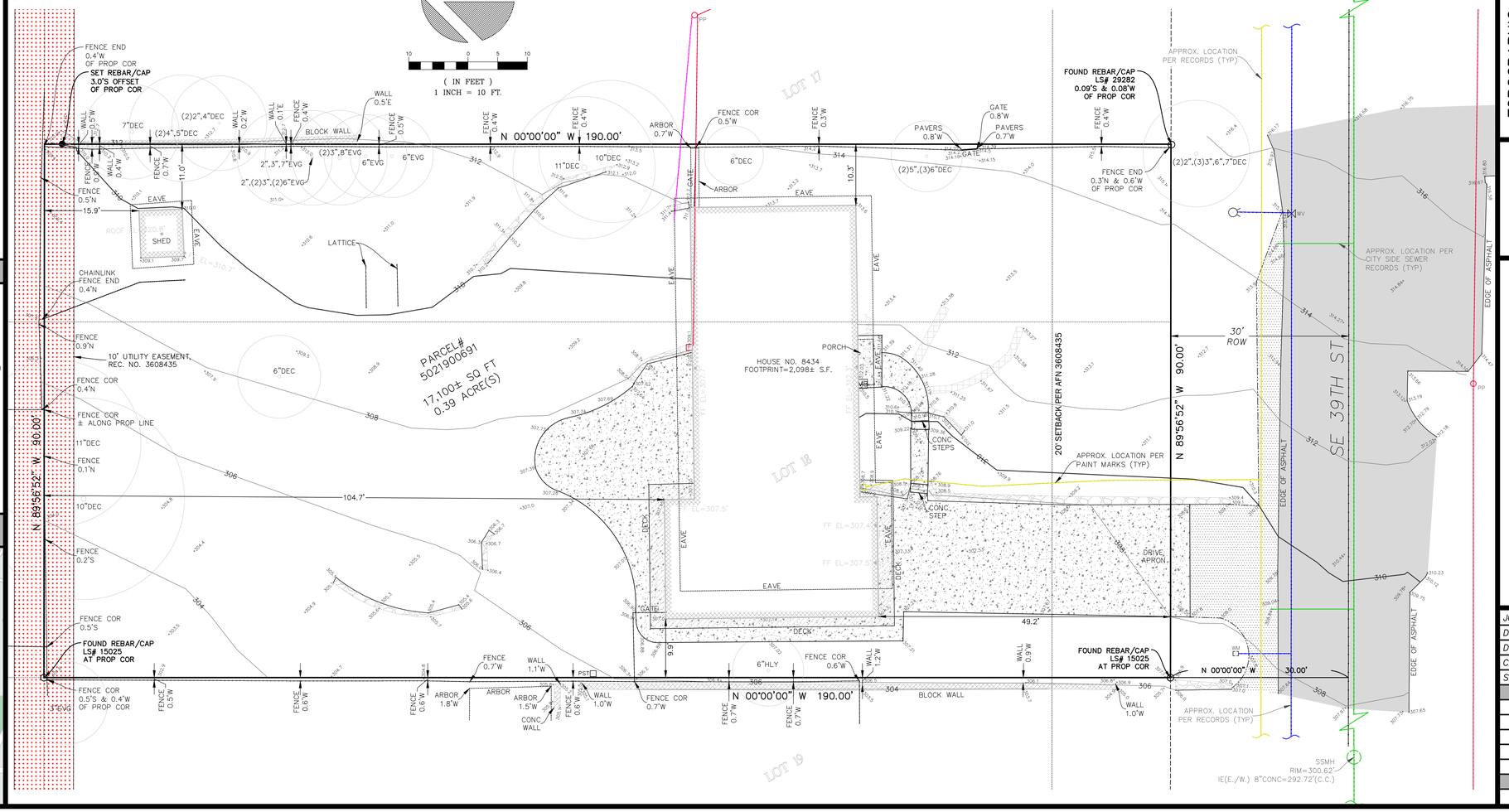
STEEP SLOPE/BUFFER DISCLAIMER:

THE LOCATION AND EXTENT OF STEEP SLOPES SHOWN ON THIS DRAWING ARE FOR INFORMATIONAL PURPOSES ONLY AND CANNOT BE RELIED ON FOR DESIGN AND/OR CONSTRUCTION. THE PITCH, LOCATION, AND EXTENT ARE BASED SOLELY ON OUR GENERAL OBSERVATIONS ON SITE AND OUR CURSORY REVIEW OF READILY AVAILABLE PUBLIC DOCUMENTS; AS SUCH, TERRANE CANNOT BE LIABLE OR RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY STEEP SLOPE INFORMATION. ULTIMATELY, THE LIMITS AND EXTENT OF ANY STEEP SLOPES ASSOCIATED WITH ANY SETBACKS OR OTHER DESIGN OR CONSTRUCTION PARAMETERS MUST BE DISCUSSED AND APPROVED BY THE REVIEWING AGENCY BEFORE ANY CONSTRUCTION CAN OCCUR.



INDEXING INFORMATION
SW 1/4 SW 1/4
SECTION: 07
TOWNSHIP: 24N
RANGE: 05E, W.M.
COUNTY: KING

CONTROL MAP
N.T.S.



measure success

TOPOGRAPHIC & BOUNDARY SURVEY
PARCEL NO. 5021900691

DUBEY RESIDENCE

8434 SE 39TH ST
MERCER ISLAND, WA 98040

Terrane
10801 Main Street, Suite 102, Bellevue, WA 98004
phone 425.458.4488 support@terrane.net
www.terrane.net

JOB NUMBER:	210366
DATE:	03/24/21
DRAFTED BY:	RSN
CHECKED BY:	JGM/CSP
SCALE:	1" = 10'

REVISION HISTORY

SHEET NUMBER
1 OF 1

ate.dwg

kref_Stamp.dwg