



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

GENERAL NOTES:

- DO NOT SCALE DRAWINGS.
- THIS PROJECT SHALL COMPLY WITH ALL GOVERNING REGULATIONS, ORDINANCES, BUILDING CODES, OR COVENANTS OF THE AREA IN WHICH IT IS BUILT.
- APPROVAL BY AN INSPECTOR DOES NOT CONSTITUTE AUTHORITY TO DEVIATE FROM THE DRAWINGS OR SPECIFICATIONS.
- THE CONTRACTOR SHALL SCHEDULE WALK-THROUGHS AT EACH OF BELOW NOTED INTERVALS:
A. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
B. PRIOR TO THE COMMENCEMENT OF ALL MECHANICAL + ELECTRICAL WORK.
- PROVIDE ALL NECESSARY BARRICADES, WARNING SIGNS, + DEVICES TO PROTECT PUBLIC + CONSTRUCTION PERSONNEL DURING CONSTRUCTION.
- MAINTAIN ALL REQUIRED ACCESS + EGRESS DURING CONSTRUCTION.

ABBREVIATIONS LIST

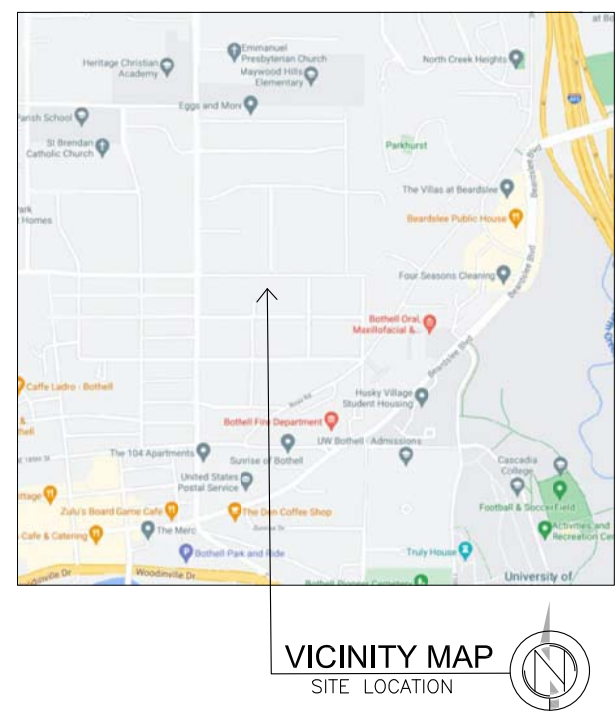
#AND #NUMBER %PERCENT	ANCHOR BOLT ARCHITECT BUILDING DIMENSION DETAIL DOOR DISHWASHER DRAWING AIR CONDITIONING INCHES INFORMATION MAXIMUM MEMBRANE MINIMUM NOMINAL REFRIGERATOR REVISION SELF ADHESIVE FLASHING TEMPERED TYPICAL WASHING MACHINE WOOD W/D WASHER DRYER WATER HEATER WATERPROOF WEATHER RESISTIVE BARRIER
-----------------------------	--

DRAWING LEGEND

Name Elevation	DATUM
1 A101 TYP	REVISION CLOUD & TAG DETAIL CALLOUT HEAD
TEMP. EGR.	WINDOW TAG: TEMPERED / SIZE / EGRESS
True North	TRUE NORTH
PEDESTRIAN ENTRY	PEDESTRIAN ENTRY
EGRESS LOCATION	EGRESS LOCATION

PLAN LEGEND:

EXISTING WALL	EXISTING WALL
NEW WALL	NEW WALL
CONCRETE WALL	CONCRETE WALL
BATT INSULATION	BATT INSULATION
AREA OF DRAWING REVISION	AREA OF DRAWING REVISION
PROPERTY LINE	PROPERTY LINE



PROJECT INFO:

PROJECT NUMBER: -
PROJECT ADDRESS: -
OWNER: -
NAME: -
PARCEL NUMBER: 0000000000
LOT AREA: 0000 SF

PROJECT TEAM:

CLIENT: -
PROJECT ADDRESS: -
CONTACT: -

ATVAGA LLC
170 W Dayton St, Ste 204 Edmonds, WA 98020 US
GAYDAR HAMIDOV
ANNA SENCHENKO
CONTACT: anna@atvaga.com

CONTRACTOR:
TBD

SHEET INDEX

A1	SITE PLAN
A2	EXISTING LOWER FLOOR PLANS
A3	EXISTING MAIN FLOOR PLANS
A4	DEMOLISHED MAIN FLOOR PLANS
A5	PROPOSED MAIN FLOOR PLANS
A6	EXISTING ELEVATIONS
A7	EXISTING ELEVATIONS
A8	PROPOSED ELEVATIONS
A9	PROPOSED ELEVATIONS
A10	DETAILS
A11	ENERGY & SCHEDULES

NOTES:

- Remodeling space.
- Added 1 toilet.
- Added doors and windows on the main floor.
- Added a foyer on the main floor.

PROJECT NAME

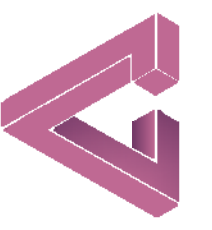
PROJECT ADDRESS

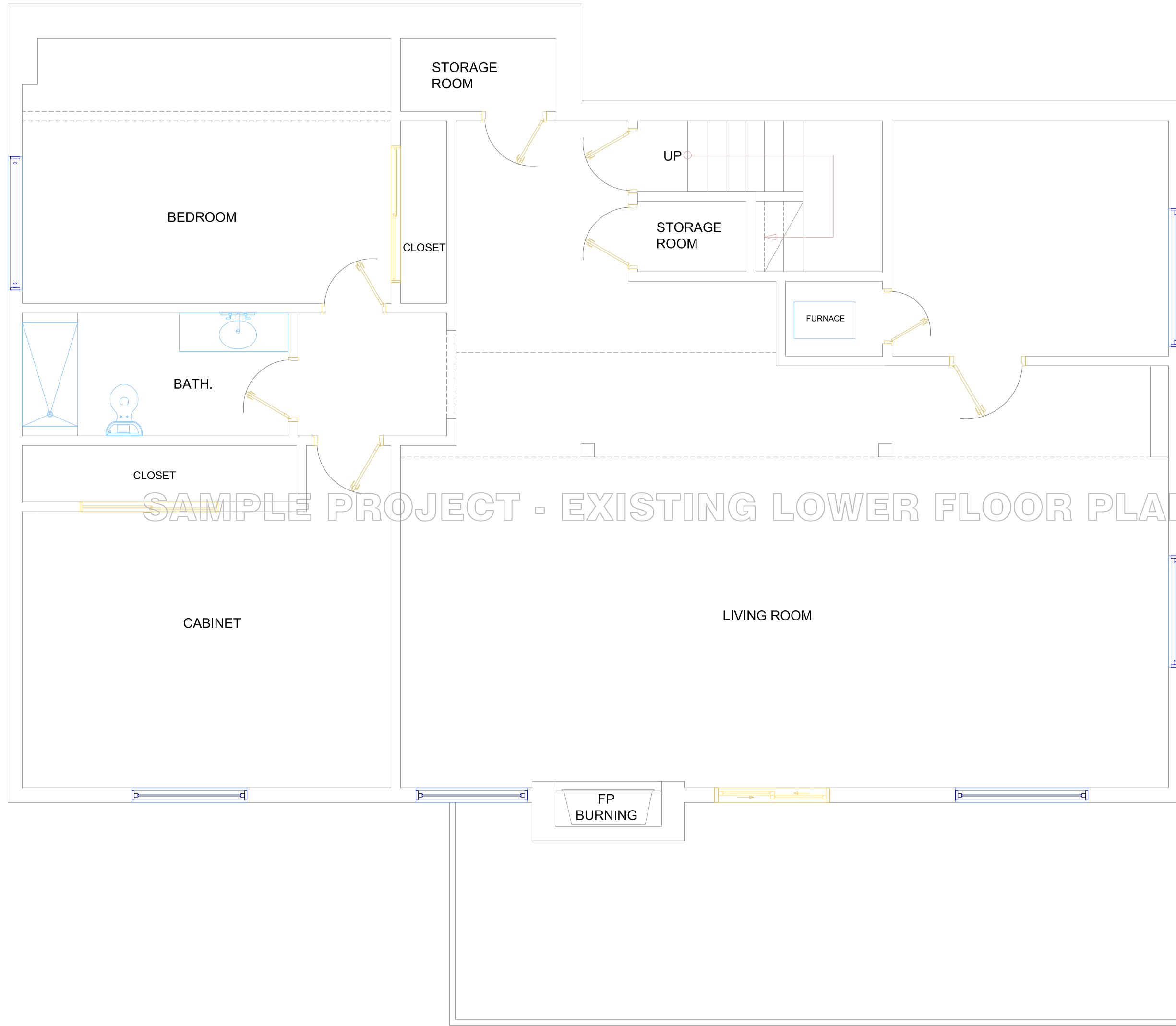
TEAM	GH
CHECKED	AS
DRAWING REVISION	
DESCRIPTION	NO. DATE
PERMIT SET	2021-07-14

SITE PLAN

A1

ATVAGA LLC
170 W Dayton St, Ste 204 Edmonds, WA 98020
atvaga.com






EXISTING LOWER FLOOR PLAN
 SCALE: 1/4" = 1'-0"

PROJECT NAME

PROJECT ADDRESS

TEAM	GH
CHECKED	AS
DRAWING REVISION	
DESCRIPTION	NO. DATE
PERMIT SET	2021-07-14

EXISTING LOWER FLOOR PLAN

A2

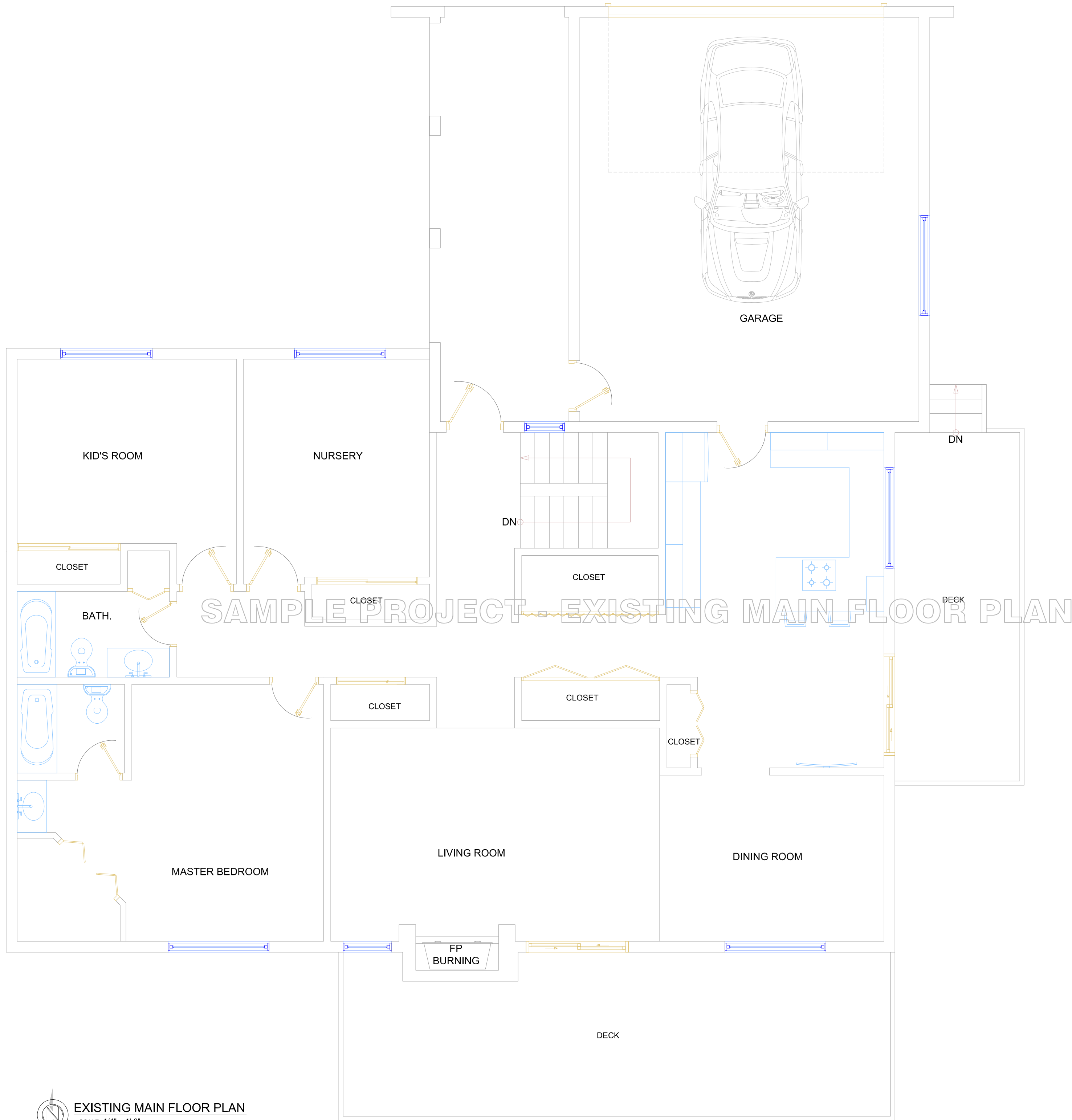


PROJECT NAME

PROJECT ADDRESS

TEAM	GH
CHECKED	AS
DRAWING REVISION	
DESCRIPTION	NO. DATE
PERMIT SET	2021-07-14

EXISTING
 MAIN
 FLOOR PLAN
 A3



PLAN NOTES:

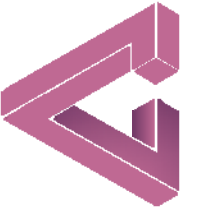
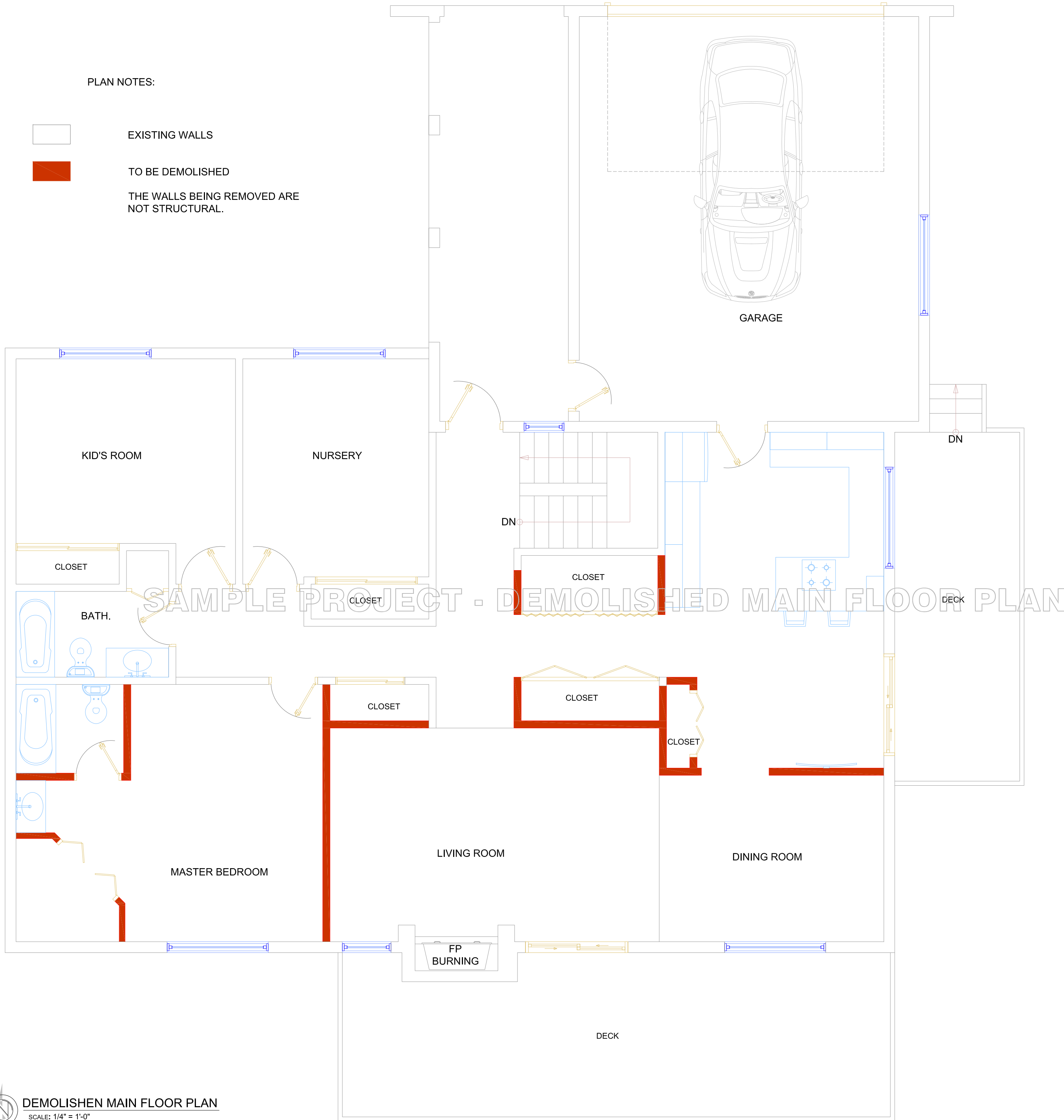


EXISTING WALLS



TO BE DEMOLISHED

THE WALLS BEING REMOVED ARE NOT STRUCTURAL.



PROJECT NAME

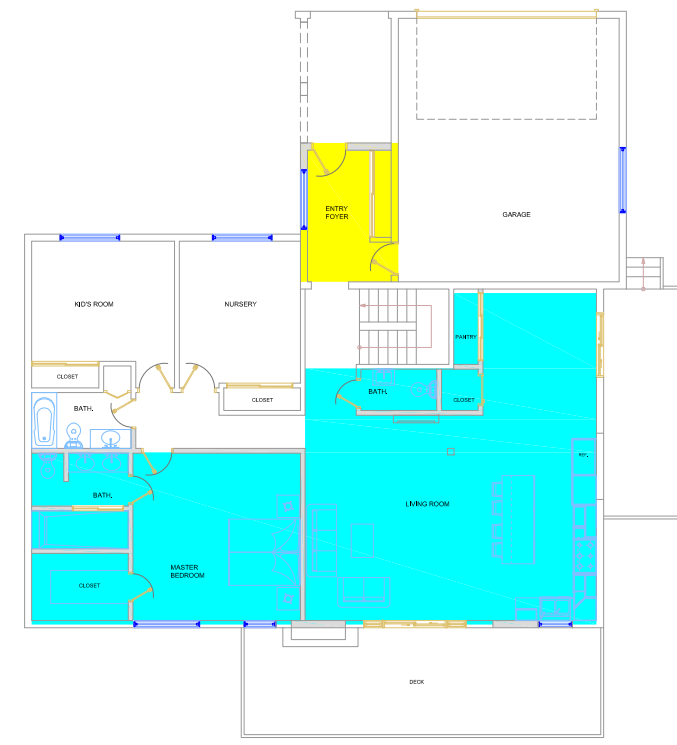
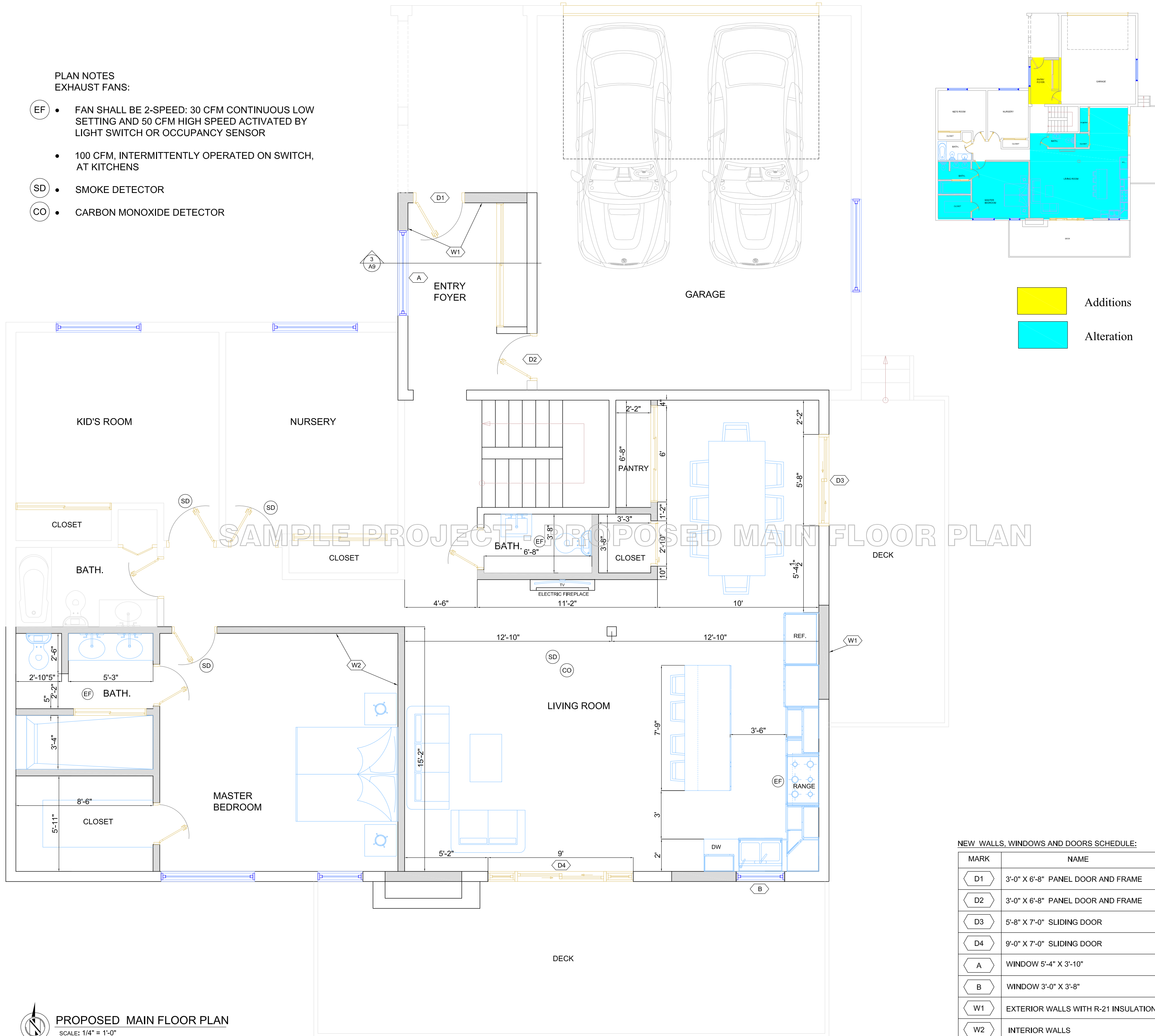
PROJECT ADDRESS

TEAM	GH
CHECKED	AS
DRAWING REVISION	
DESCRIPTION	NO. DATE
PERMIT SET	2021-07-14

DEMOLISHED
MAIN
FLOOR PLAN
A4

PLAN NOTES
EXHAUST FANS:

- EF • FAN SHALL BE 2-SPEED: 30 CFM CONTINUOUS LOW SETTING AND 50 CFM HIGH SPEED ACTIVATED BY LIGHT SWITCH OR OCCUPANCY SENSOR
- 100 CFM, INTERMITTENTLY OPERATED ON SWITCH, AT KITCHENS
- SD • SMOKE DETECTOR
- CO • CARBON MONOXIDE DETECTOR



- Additions
- Alteration

SAMPLE PROJECT - PROPOSED MAIN FLOOR PLAN

ATVAGA LLC
 170 W Dayton St, Ste 204 Edmonds, WA 98020
 atvaga.com



PROJECT NAME

PROJECT ADDRESS

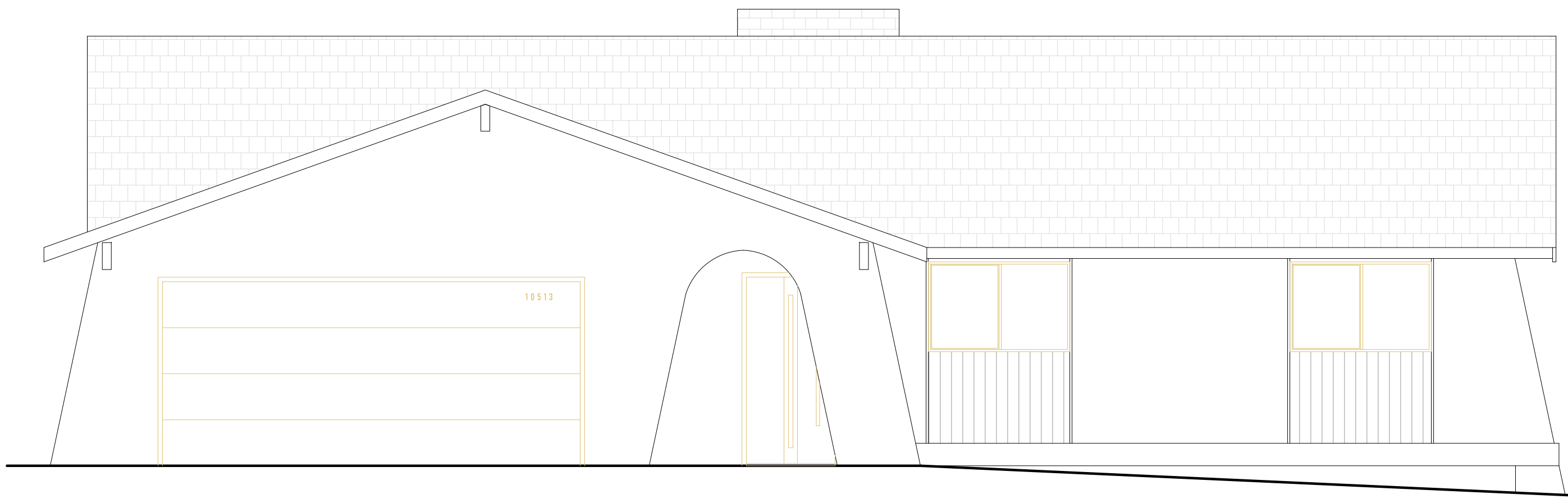
TEAM _____ GH _____
 CHECKED _____ AS _____
 DRAWING REVISION _____
 DESCRIPTION NO. DATE
 PERMIT SET 2021-07-14

NEW WALLS, WINDOWS AND DOORS SCHEDULE:

MARK	NAME	U-VALUE
D1	3'-0" X 6'-8" PANEL DOOR AND FRAME	0.37
D2	3'-0" X 6'-8" PANEL DOOR AND FRAME	0.37
D3	5'-8" X 7'-0" SLIDING DOOR	0.30
D4	9'-0" X 7'-0" SLIDING DOOR	0.30
A	WINDOW 5'-4" X 3'-10"	0.20
B	WINDOW 3'-0" X 3'-8"	0.30
W1	EXTERIOR WALLS WITH R-21 INSULATION	0.054
W2	INTERIOR WALLS	

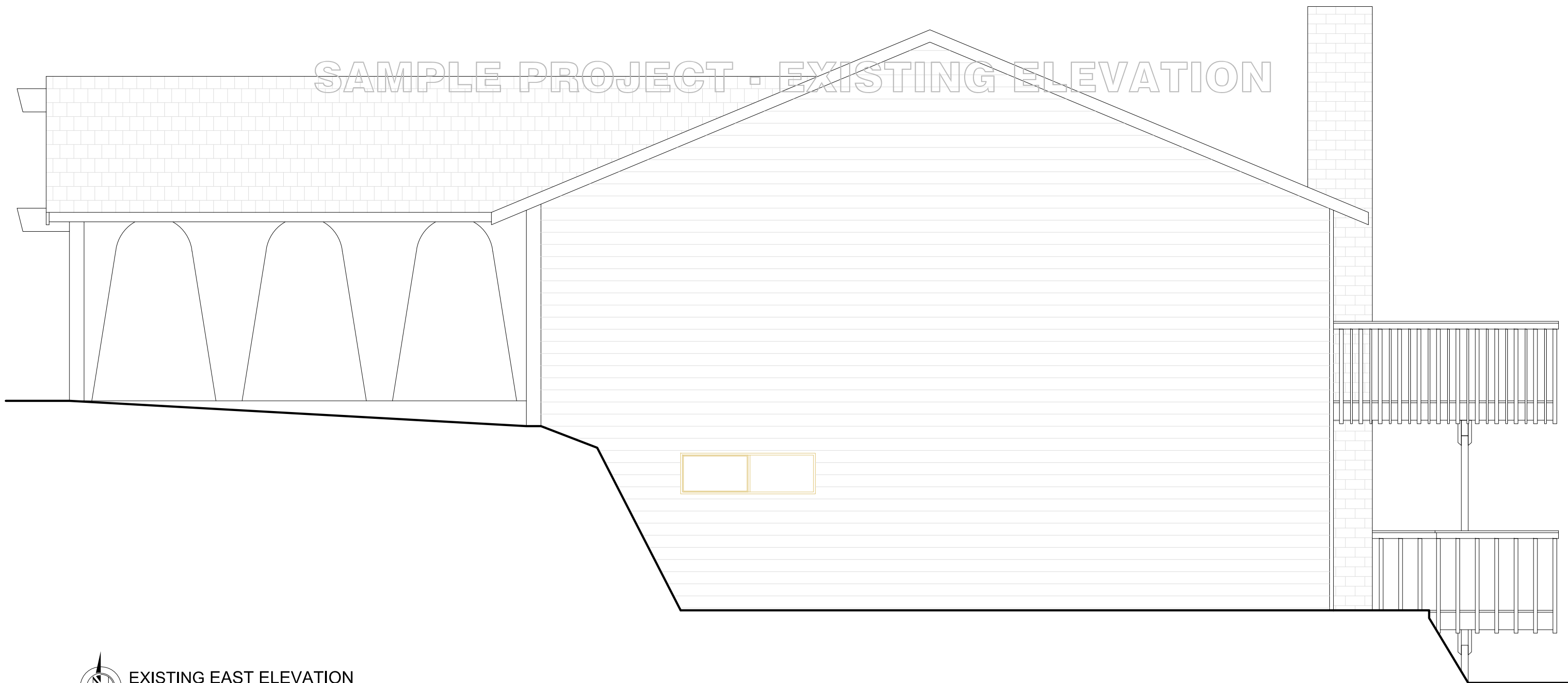
PROPOSED
 MAIN
 FLOOR PLAN

A5



EXISTING NORTH ELEVATION

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



EXISTING EAST ELEVATION

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



ATVAGA LLC
170 W Dayton St, Ste 204 Edmonds, WA 98020
atvaga.com

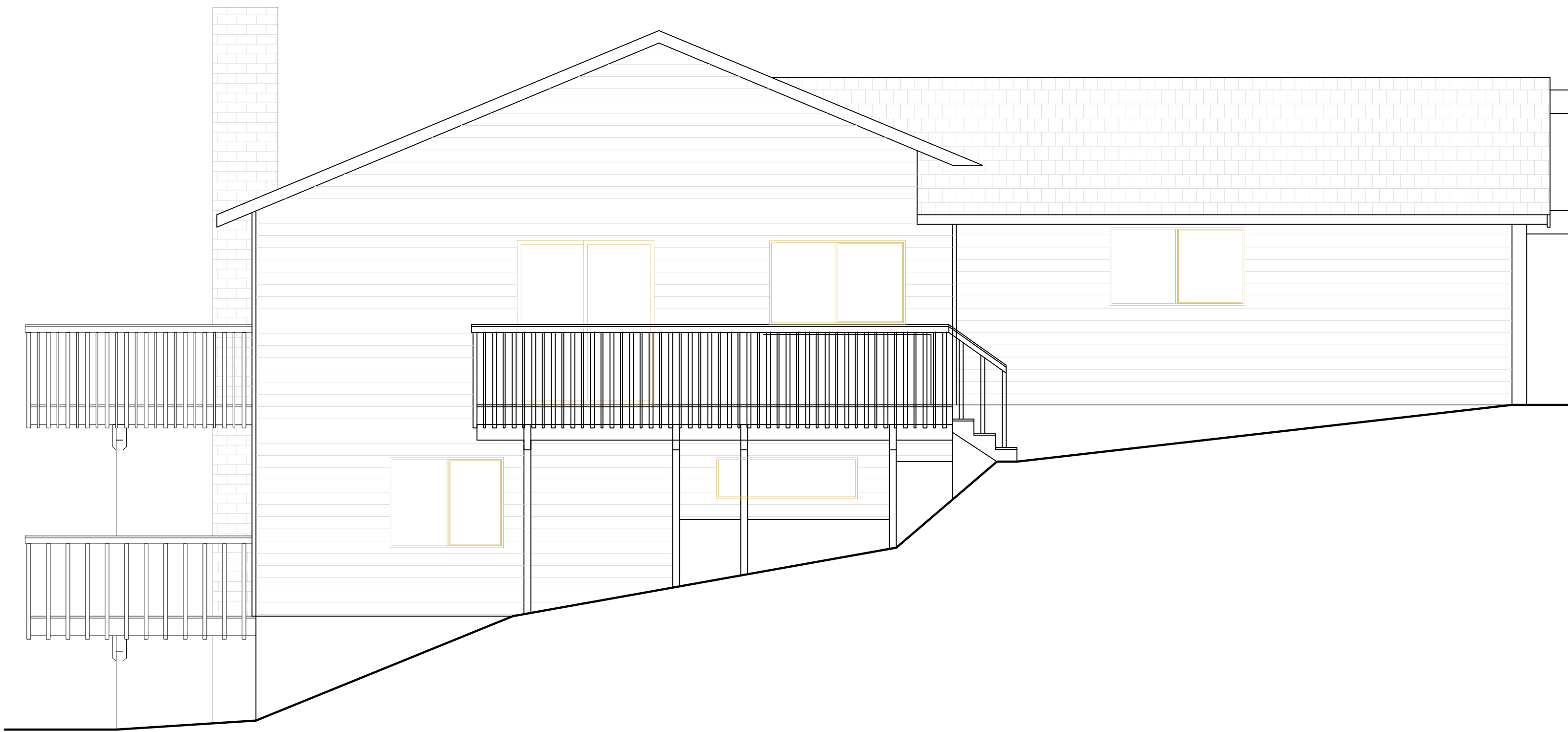
PROJECT NAME

PROJECT ADDRESS

TEAM GH
CHECKED AS
DRAWING REVISION
DESCRIPTION NO. DATE
PERMIT SET 2021-07-14

EXISTING
ELEVATION

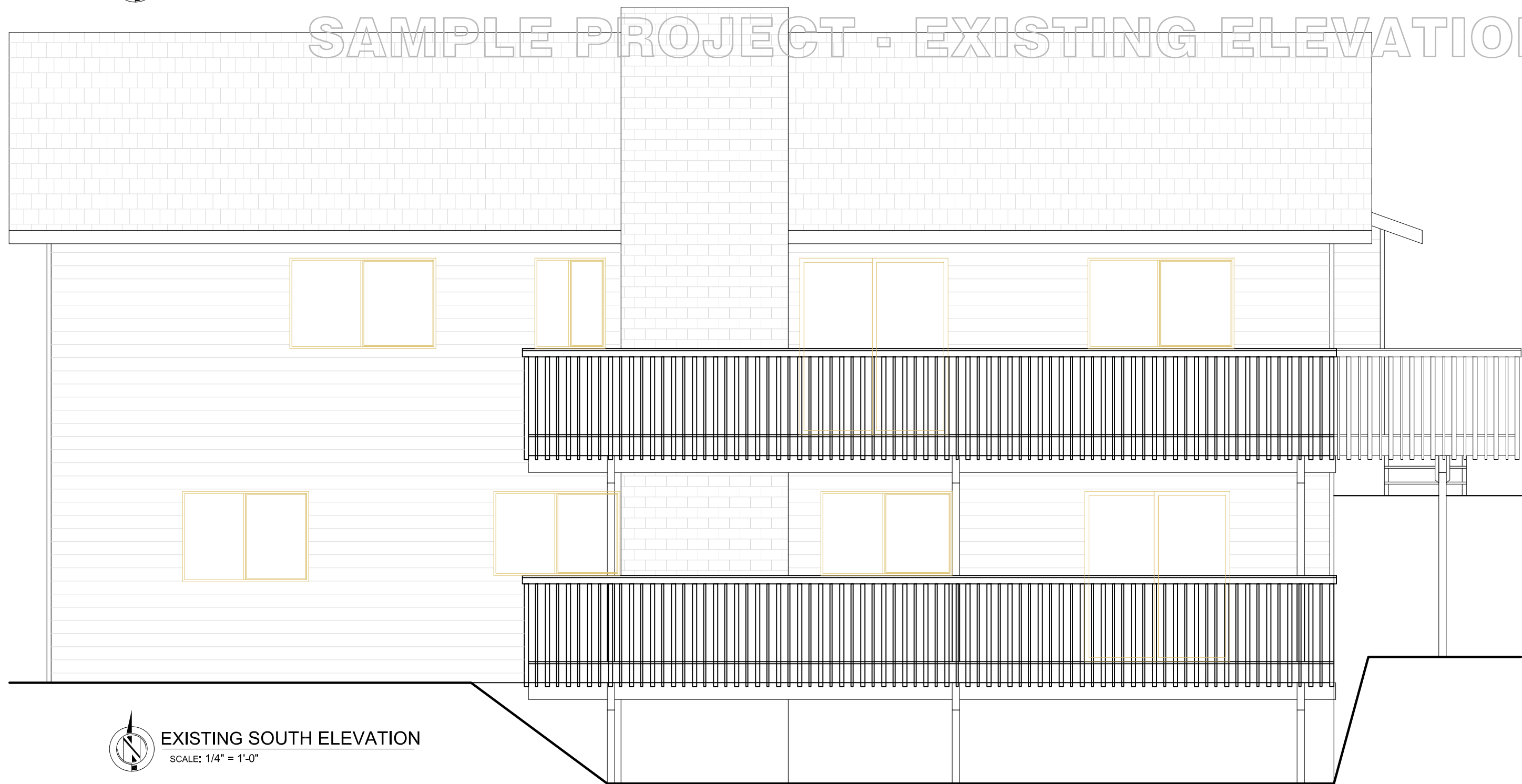
A6



EXISTING WEST ELEVATION

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

SAMPLE PROJECT - EXISTING ELEVATION



EXISTING SOUTH ELEVATION

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



ATVAGA LLC
170 W Dayton St, Ste 204 Edmonds, WA 98020
atvaga.com

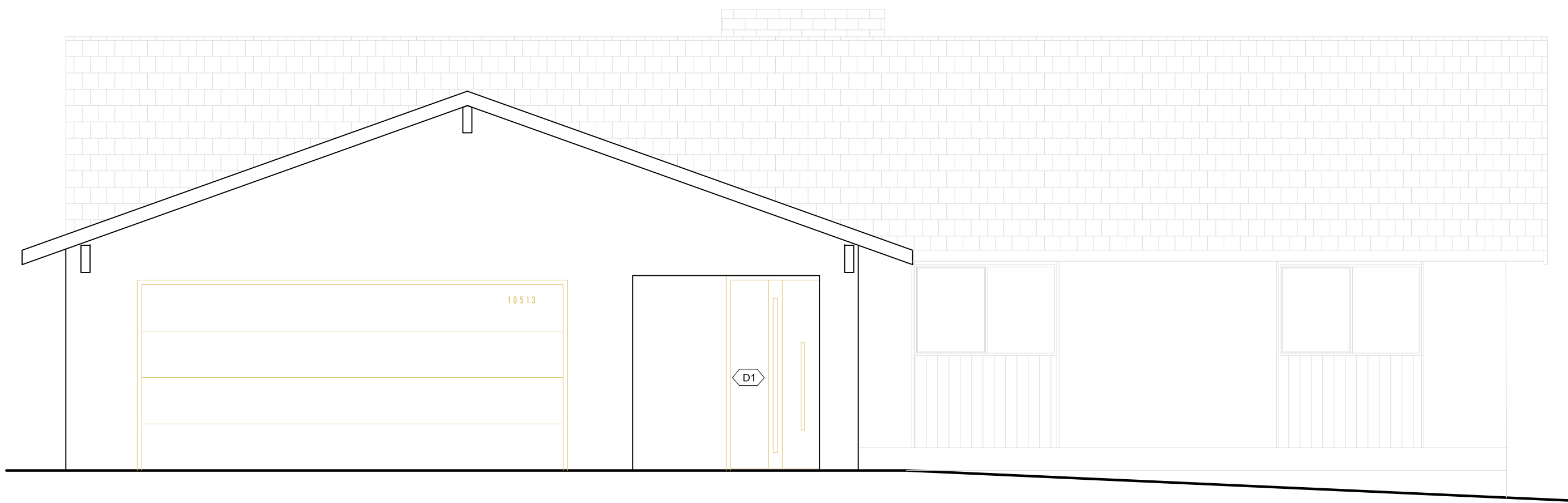
PROJECT NAME


PROJECT ADDRESS

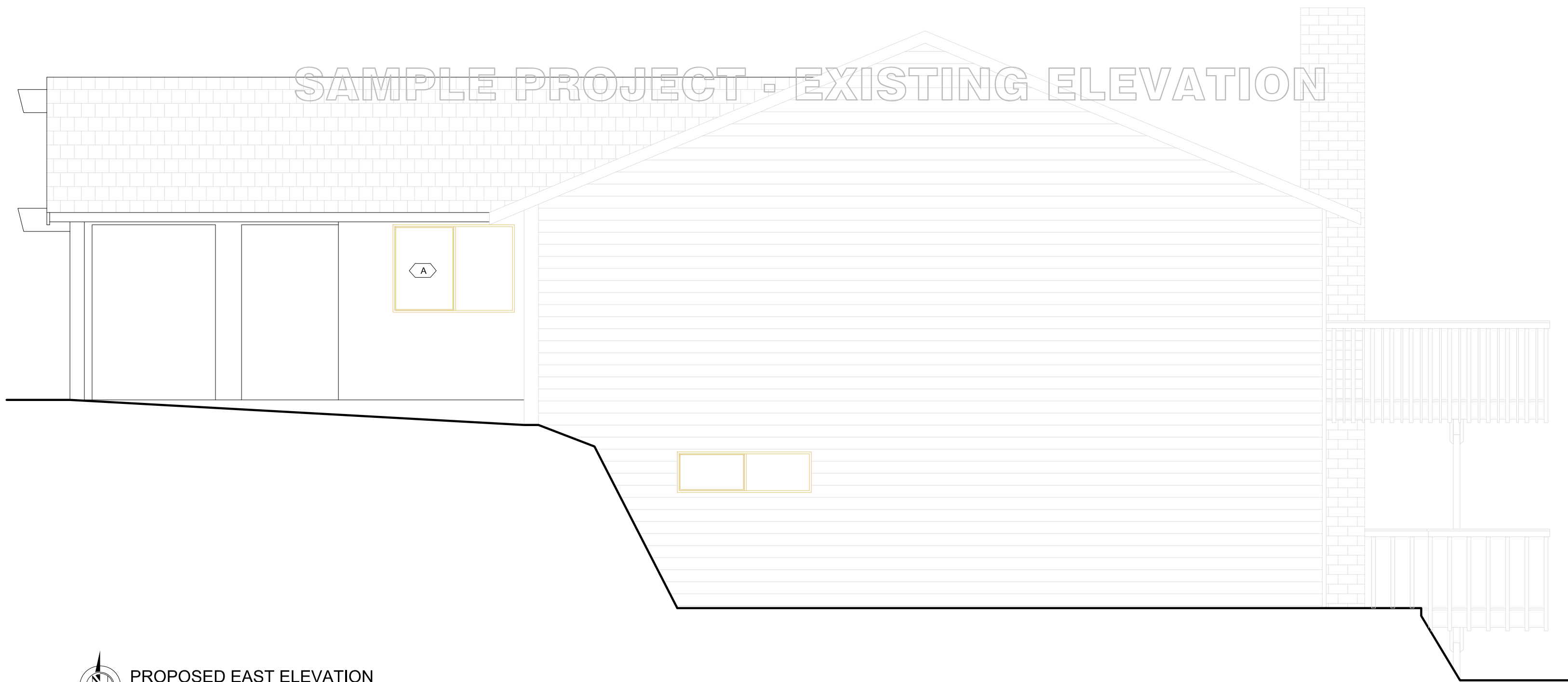
TEAM
CHECKED
DRAWING REVISION
DESCRIPTION NO. DATE
PERMIT SET 2021-07-14


EXISTING
ELEVATION

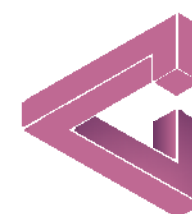
A7




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




PROPOSED EAST ELEVATION
 SCALE: 1/4" = 1'-0"



PROJECT NAME

PROJECT ADDRESS

TEAM	GH
CHECKED	AS
DRAWING REVISION	
DESCRIPTION	NO. DATE
PERMIT SET	2021-07-14

PROPOSED ELEVATION

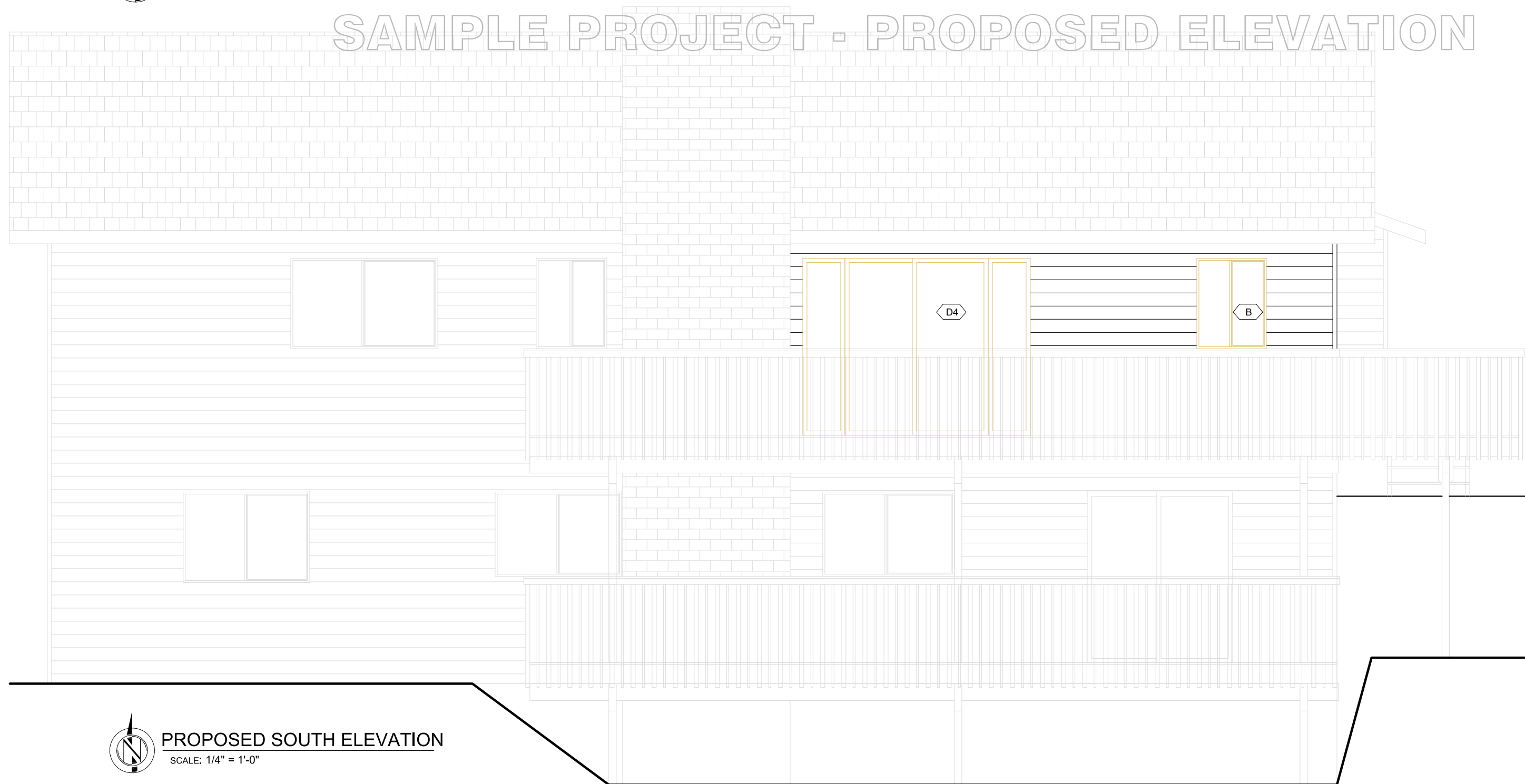
A8



PROPOSED WEST ELEVATION

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

SAMPLE PROJECT - PROPOSED ELEVATION



PROPOSED SOUTH ELEVATION

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



ATVAGA LLC
170 W Dayton St, Ste 204 Edmonds, WA 98020
atvaga.com

PROJECT NAME

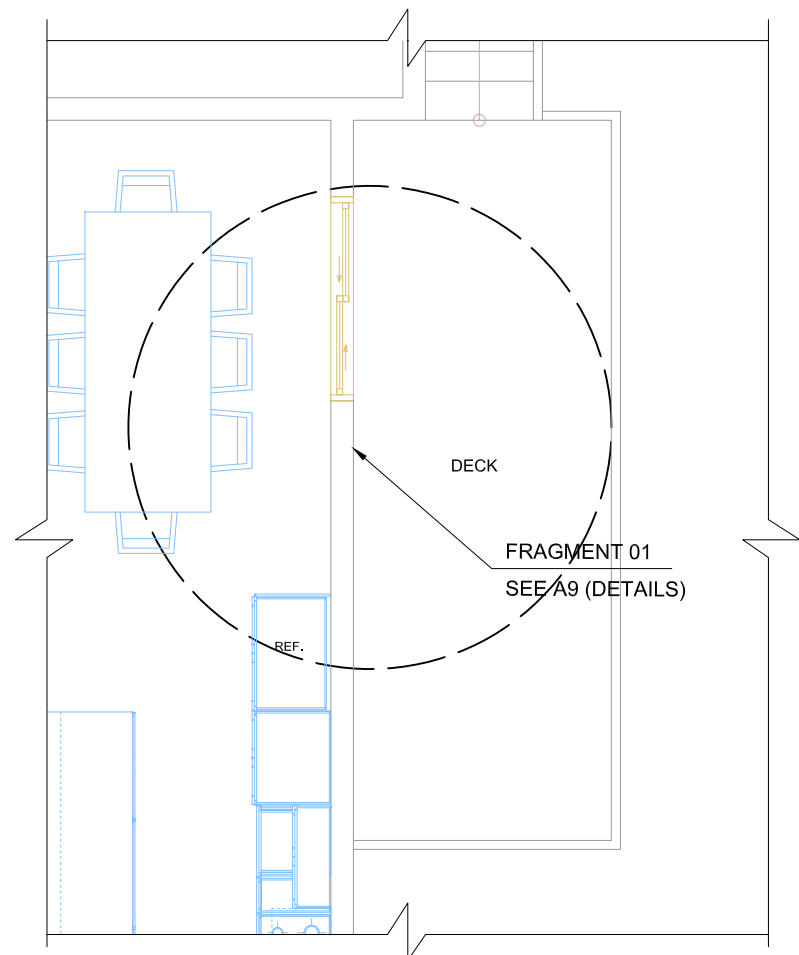
PROJECT ADDRESS

TEAM	GH
CHECKED	AS
DRAWING REVISION	
DESCRIPTION	NO. DATE
PERMIT SET	2021-07-14

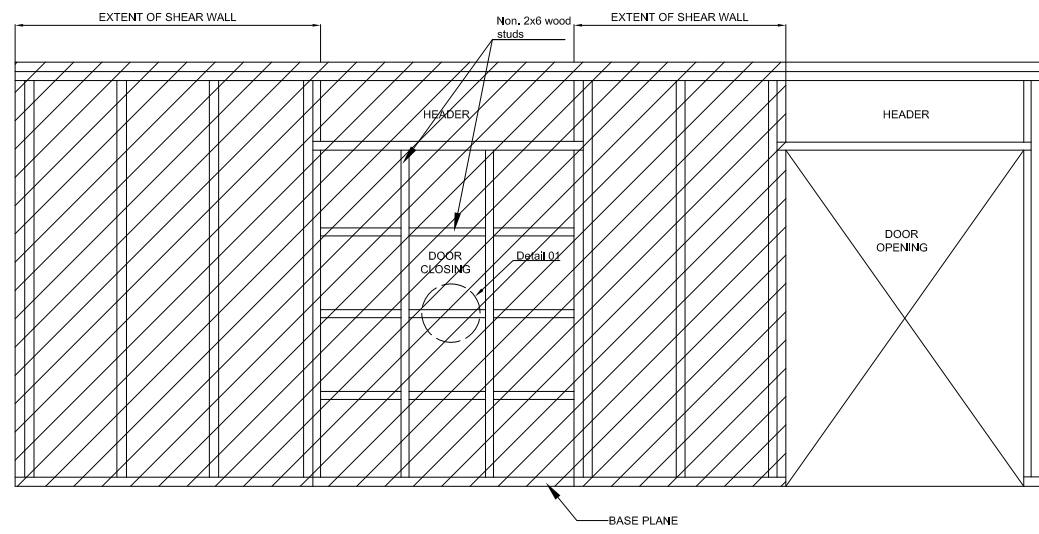
PROPOSED ELEVATION

A9

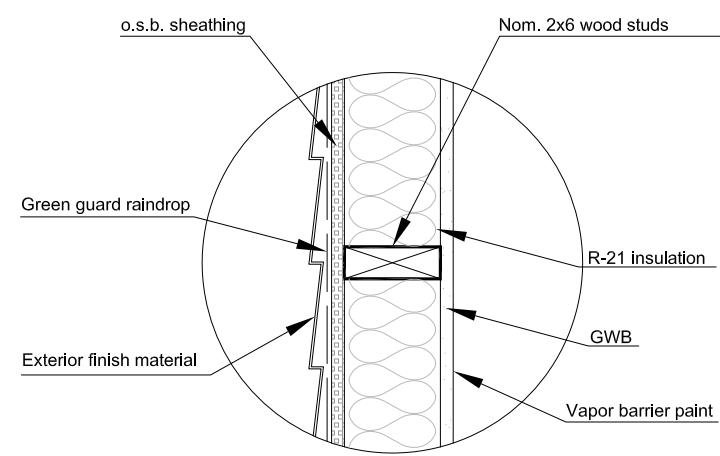
WALL



1 PROPOSED MAIN FLOOR PLAN
SCALE: 3/16" = 1'-0"

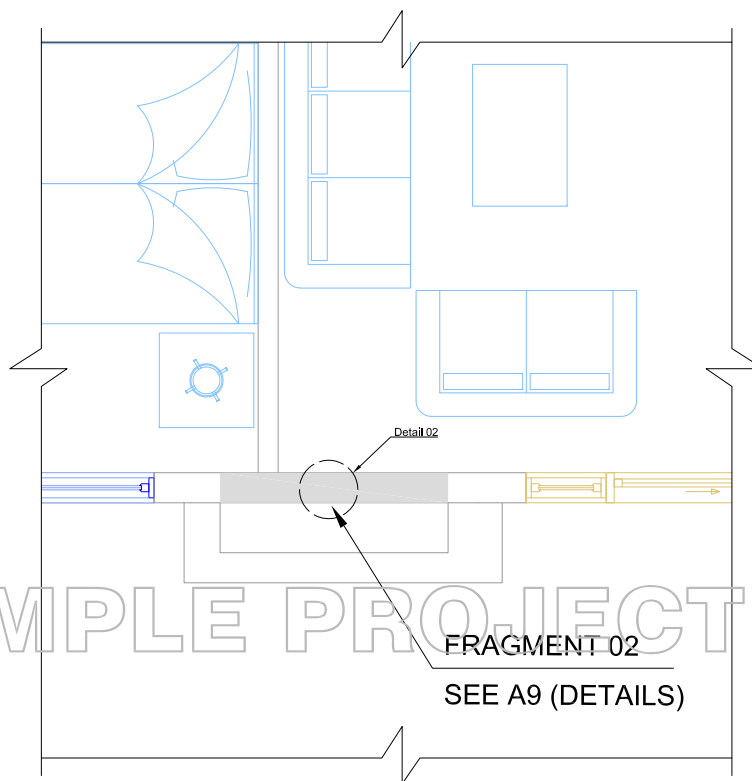
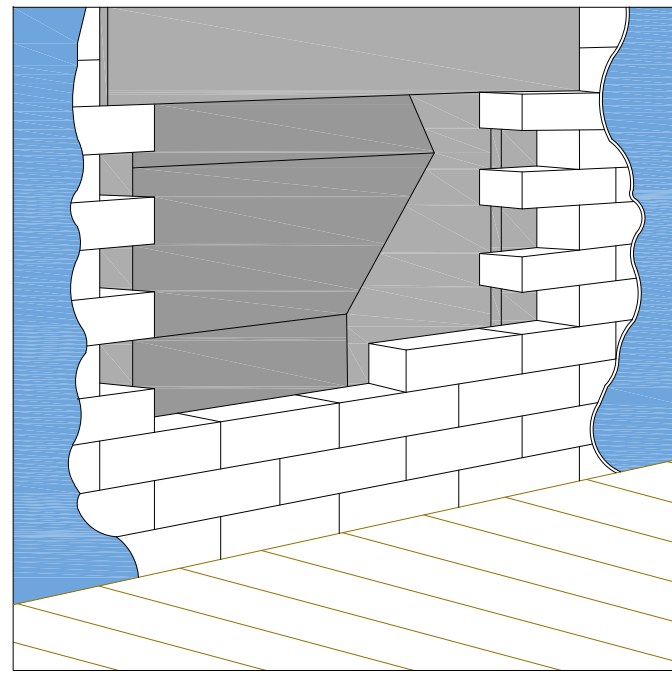


1 SECTION 01
SCALE: 1/4" = 1'-0"

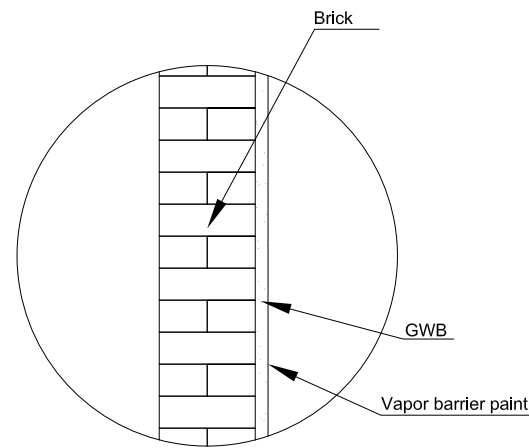


1 DETAIL 01
SCALE: 1" = 1'-0"

FIREPLACE

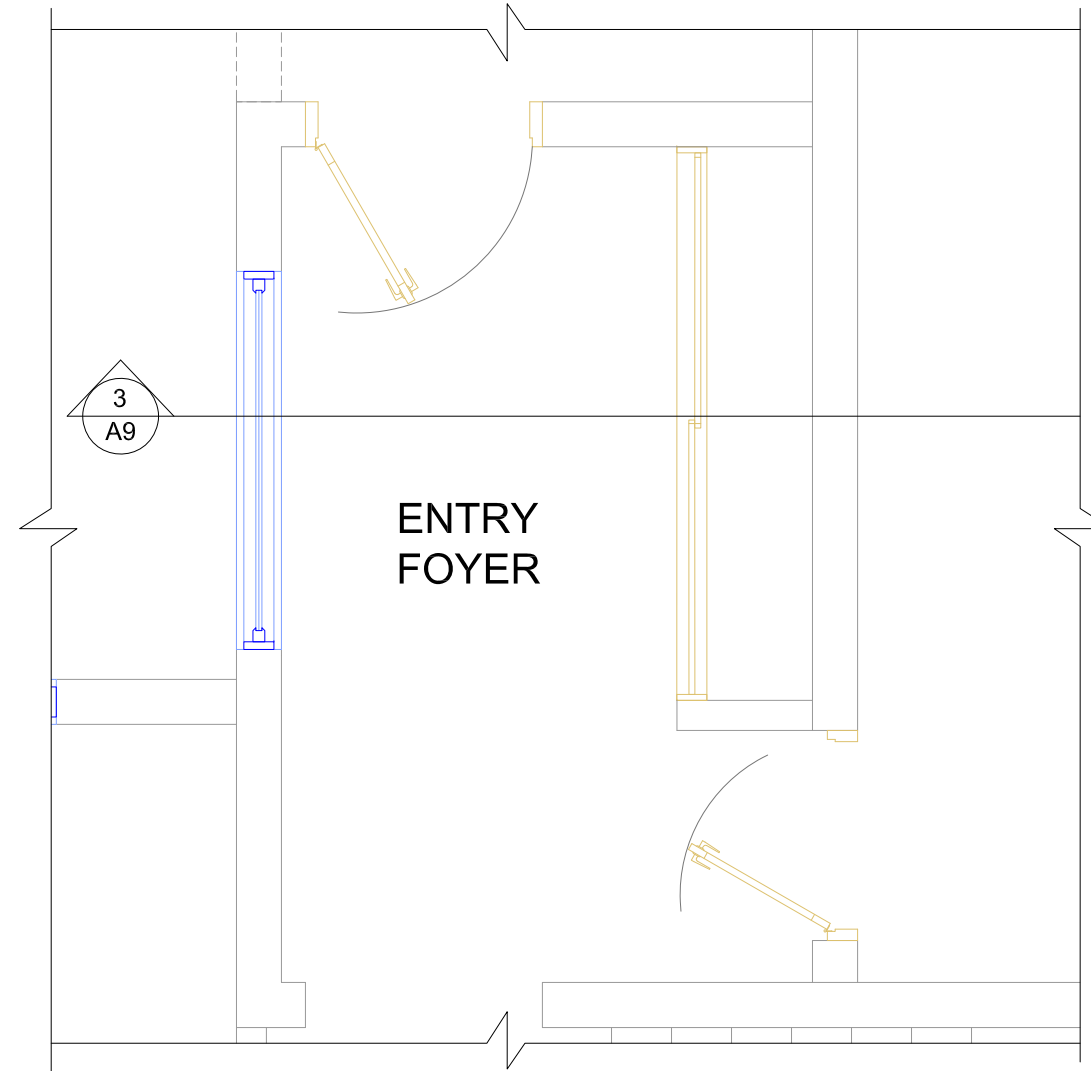


2 PROPOSED MAIN FLOOR PLAN
SCALE: 1/4" = 1'-0"

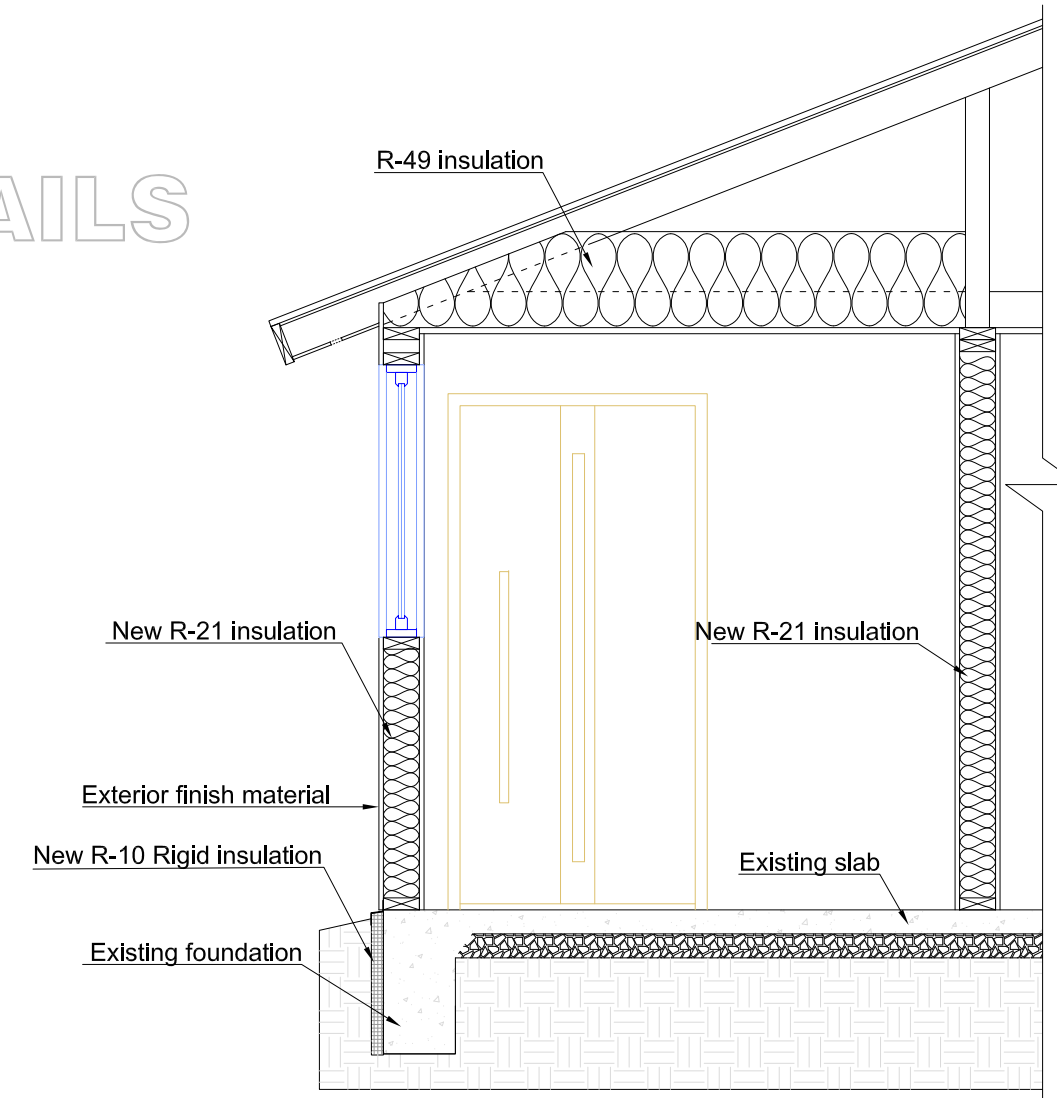


2 DETAIL 02
SCALE: 1" = 1'-0"

ENTRY FOYER



3 PROPOSED MAIN FLOOR PLAN
SCALE: 3/8" = 1'-0"



3 SECTION 03
SCALE: 3/8" = 1'-0"

SAMPLE PROJECT - DETAILS

PROJECT NAME

PROJECT ADDRESS

TEAM	GH
CHECKED	AS
DRAWING REVISION	
DESCRIPTION	NO. DATE
PERMIT SET	2021-07-14

DETAILS

A10

WINDOW SCHEDULE

MAR K	WIDTH	HEIGHT	LEVEL	SILL HGT	HEAD HGT	SAFETY		OPERATION							AREAS	NOTES
						EGR	TMP	AWNG	CSMT	FIX	DH	SH	SLDR			
A	64"	46"	MAIN LVL	4'-10"	8'-8"	-	-	YES	-	-	-	-	-	-	20 SF	
B	36"	44"	MAIN LVL	4'-0"	7'-0"	-	-	YES	-	-	-	-	-	11 SF		
TOTAL: 2													31 SF			

DOOR SCHEDULE

MARK	DOOR TYPE	TAG	WIDTH X HEIGHT	LEVEL	FUNCTION	AREAS
D1	Single-Panel	0	3'-0" X 6'-8"	MAIN LVL	Exterior	20 SF
D2	Single-Panel	0	3'-0" X 6'-8"	MAIN LVL	Exterior	20 SF
D3	Glazed	0	5'-8" X 7'-0"	MAIN LVL	Exterior	39 SF
D4	Glazed	0	9'-0" X 7'-0"	MAIN LVL	Exterior	63 SF
TOTAL: 3						142 SF

SECTION R502 ADDITIONS

R502.1 General. Additions to an existing building, building system or portion thereof shall conform to the provisions of this code as those provisions relate to new construction without requiring the unaltered portion of the existing building or building system to comply with this code. Additions shall not create an unsafe or hazardous condition or overload existing building systems. An addition shall be deemed to comply with this code where the addition alone complies, where the existing building and addition comply with this code as a single building, or where the building with the addition uses no more energy than the existing building. Additions shall be in accordance with Section R502.1.1 or R502.1.2.

R406.1 Scope. This section establishes additional energy efficiency requirements for all new construction covered by this code, including additions subject to Section R502 and change of occupancy or use subject to Section R505 unless specifically exempted in Section R406. Credit from both Sections R406.2 and R406.3 are required.

R406.3 Additional energy efficiency requirements. Each dwelling unit in a residential building shall comply with sufficient options from Table R406.2 so as to achieve the following minimum number of credits:

Additions less than or equal to 500 square feet:..... 1.5 credits

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: Project Name: _____, Project Address: _____, Project Start Date: _____, Project End Date: _____, Project Manager: _____, Project Phone: _____, Project Email: _____

Contact Information: Company Name: ATVAGA LLC, Project Address: _____, Project Phone: _____, Project Email: _____

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

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

Authorized Representative: _____ Date: _____

Component	All Climate Zones (Table R402.1.1)	
	R-Value *	U-Factor *
Fenestration U-Factor ^b	n/a	0.30
Skylight U-Factor ^b	n/a	0.50
Glazed Fenestration SHGC ^{b,c}	n/a	n/a
Ceiling ^e	49	0.026
Wood Frame Wall ^{d,h}	21 int	0.056
Floor	30	0.029
Below Grade Wall ^h	10/15/21 int + TB	0.042
Slab ^h R-Value & Depth	30, 2 ft	n/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.

^bThe fenestration U-factor column excludes skylights.

^c"10/15/21 + TB" 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 on the interior of the basement wall. "10/15/21 + TB" 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.

^dR-10 continuous insulation is required under heated slab on grade floors. See Section R402.2.9.1.

^eFor single rafter- or joist-vented ceilings, the insulation may be reduced to R-38 if the full insulation depth extends over the top plate of the exterior wall.

^fR-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.

^gFor log structures developed in compliance with Standard ICC-400, log walls shall meet the requirements for climate zone 5 of ICC-400.

^hInt. (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.

Prescriptive Path - Single Family 2018 Washington State Energy Code-R 1

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 sq ft in conditioned floor area with less than 300 sq ft of fenestration area. Additions to existing building that are greater than 500 sq ft of heated floor area but less than 1,500 sq ft.

2. Medium Dwelling Unit: 4 credits
All dwelling units that are not included in 1 or 3.

3. Large Dwelling Unit: 7 credits
Dwelling units exceeding 5,000 sq ft 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.

Heating Options	Fuel Normalization Descriptions	Credits - select ONE heating option	User Notes
1	Combustion heating minimum NAECA ^a	0.0	<input checked="" type="radio"/>
2	Heat pump ^b	1.0	<input type="radio"/>
3	Electric resistance heat only - furnace or zonal	-1.0	<input type="radio"/>
4	DHP with zonal electric resistance per option 3-4	0.5	<input type="radio"/>
5	All other heating systems	-1.0	<input type="radio"/>

Energy Options	Energy Credit Option Descriptions	Credits - select ONE energy option from each category	User Notes
1.1	Efficient Building Envelope	0.5	<input type="radio"/>
1.2	Efficient Building Envelope	1.0	<input checked="" type="radio"/>
1.3	Efficient Building Envelope	0.5	<input type="radio"/>
1.4	Efficient Building Envelope	1.0	<input type="radio"/>
1.5	Efficient Building Envelope	2.0	<input type="radio"/>
1.6	Efficient Building Envelope	3.0	<input type="radio"/>
1.7	Efficient Building Envelope	0.5	<input type="radio"/>
2.1	Air Leakage Control and Efficient Ventilation	0.5	<input checked="" type="radio"/>
2.2	Air Leakage Control and Efficient Ventilation	1.0	<input type="radio"/>
2.3	Air Leakage Control and Efficient Ventilation	1.5	<input type="radio"/>
2.4	Air Leakage Control and Efficient Ventilation	2.0	<input type="radio"/>
3.1*	High Efficiency HVAC	1.0	<input type="radio"/>
3.2	High Efficiency HVAC	1.0	<input type="radio"/>
3.3*	High Efficiency HVAC	1.5	<input type="radio"/>
3.4	High Efficiency HVAC	1.5	<input type="radio"/>
3.5	High Efficiency HVAC	1.5	<input type="radio"/>
3.6*	High Efficiency HVAC	0.5	<input type="radio"/>
4.1	High Efficiency HVAC Distribution System	2.0	<input type="radio"/>
4.2	High Efficiency HVAC Distribution System	1.0	<input type="radio"/>

Prescriptive Path - Single Family 2018 Washington State Energy Code-R 2

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 ^f	User Notes
5.1*	Efficient Water Heating	0.5	<input type="radio"/>
5.2	Efficient Water Heating	0.5	<input type="radio"/>
5.3	Efficient Water Heating	1.0	<input type="radio"/>
5.4	Efficient Water Heating	1.5	<input type="radio"/>
5.5	Efficient Water Heating	2.0	<input type="radio"/>
5.6	Efficient Water Heating	2.5	<input type="radio"/>
6.1*	Renewable Electric Energy (3 credits max)	1.0	<input type="radio"/>
7.1	Appliance Package	0.5	<input type="radio"/>

Total Credits: 1.5

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.

Prescriptive Path - Single Family 2018 Washington State Energy Code-R 3

Alterations Worksheet - 2018 Washington State Energy Code

Project Information: Project Name: _____, Project Address: _____, Project Start Date: _____, Project End Date: _____, Project Manager: _____, Project Phone: _____, Project Email: _____

Contact Information: Company Name: ATVAGA LLC, Project Address: _____, Project Phone: _____, Project Email: _____

The WSEC requirements for alterations are located in Chapter 5 of the code text. Alterations (remodels) do not need to obtain energy credits from Table R406.3.

Additions must meet the requirements for new construction. This includes nonconditioned space being altered to become conditioned space.

Will the wall cavities be exposed? Yes No
If yes: Exposed wall cavities must be insulated -
2 X 4 wall studs require R-15 insulation
2 X 6 wall studs require R-21 insulation

Will the roof/ceiling framing cavities or attic be exposed? Yes No
If yes: Exposed roof/ceiling assemblies must be insulated -
Vented ceilings: Insulate to the full depth of the framing member while allowing for the minimum 1" ventilated space
Flat ceilings: Install R-49 insulation or the roof attic space can accommodate based on the roof pitch.

Will the floor framing cavities be exposed? Yes No
If yes: Exposed floor cavities must be insulated to R-30

Are the windows and/or doors being replaced? Yes No
If yes: New windows and doors must have an area weighted average U-factor of <0.30

Will the heating or cooling system be replaced? Yes No
If yes: New equipment must meet current requirements and ducts need to be tested

Will the hot water system be altered? Yes No
If yes: New water heating equipment must meet current code requirements

Are more than 50% of the light fixtures being changed? Yes No
If yes: 90% of all lamps must be high efficacy (LED or CFL)

R406.1.1 Building envelopes. Building envelopes assemblies that are part of the alteration shall comply with Section R406.1.1 or R406.1.2. Additions to existing building that are greater than 500 sq ft of heated floor area but less than 1,500 sq ft.

R406.1.2 Heating and cooling systems. New heating, cooling and duct systems that are part of the addition shall comply with Section R406.2.

R406.1.3 Heating and cooling systems. Where some or all of an existing heating system is replaced with a new heating system, including duct and piping, the replacement heating system shall meet the applicable requirements for U-factor and SHGC in Table R402.1.1. Where more than a one replacement fenestration unit is being installed, an area-weighted average of the U-factor and SHGC of all replacement fenestration units shall be permitted to be used for these requirements.

R406.1.4 Lighting. New lighting systems that are part of the alteration shall comply with Section R406.1.4.

R406.1.5 Change in space conditioning. Any nonconditioned or partially-conditioned space that is altered to become conditioned space shall be required to be brought into full compliance with the code.

Component	Ref.	U-factor	Width	Height	Area	UA
Exempt Swinging Door (24 sq. ft. max.)					0.0	0.00
Exempt Glazed Fenestration (15 sq. ft. max.)					0.0	0.00
Vertical Fenestration (Windows and doors)						
D1					1.5	7.0
D4					1.9	7.0
A					1.5	3.0
B					1.3	3.0
Sum of Vertical Fenestration Area and UA						133.8
Vertical Fenestration Area Weighted U = UA/Area						0.28
Overhead Glazing (Skylights)						
Sum of Overhead Glazing Area and UA						0.0
Overhead Glazing Area Weighted U = UA/Area						0.00
Total Sum of Fenestration Area and UA (for heating system sizing calculations)						133.8

Prescriptive Path - Single Family 2018 Washington State Energy Code-R 4

Simple Heating System Size: Washington State

This heating system sizing calculator is based on the Prescriptive Requirements of the 2018 Washington State Energy Code (WSEC) and ACCA Manual J and S. This tool will calculate heating loads only. ACCA procedures for sizing cooling systems should be used to determine cooling loads.

Please complete the green drop-downs and boxes that are applicable to your project. As you make selections in the drop-downs for each section, some values will be calculated for you. If you do not see the selection you need in the drop-down options, please contact the WSEU Energy Program at energycode@wseu.edu or call (360) 995-3042 for assistance.

Project Information: Project Name: _____, Project Address: _____, Project Start Date: _____, Project End Date: _____, Project Manager: _____, Project Phone: _____, Project Email: _____

Contact Information: Company Name: ATVAGA LLC, Project Address: _____, Project Phone: _____, Project Email: _____

Building System Type: All other systems Heat loss

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

Design Temperature: Design Temperature Difference (ΔT): (See Manual J Section 4.1.2)

Area of Building: Conditioned Floor Area (sq ft): Conditioned Volume: Average Ceiling Height: Average Ceiling Height (ft): Glazing and Doors: U-Factor X Area = UA: X = U-Factor X Area = UA: X = Skylights: U-Factor X Area = UA: X = Attic: U-Factor X Area = UA: X = Single Rafter or Joist Vented Ceilings: U-Factor X Area = UA: X = Above Grade Walls: U-Factor X Area = UA: X = Floors: U-Factor X Area = UA: X = Below Grade Walls: U-Factor X Area = UA: X = Slab: U-Factor X Length = UA: X = Slab on Grade: U-Factor X Length = UA: X = Location of Ducts: Duct Leakage Coefficient:

Sum of UA: Envelope Heat Load: Btu/hr Air Leakage Heat Load: Btu/hr Building Design Heat Load: Btu/hr Building and Duct Heat Load: Btu/hr Ducts in conditioned space: Ducts in unconditioned space: Minimum Heat Requirement Output: Btu/hr Building and duct heat loss: Btu/hr for heat pump: Btu/hr

Property address: _____

Builder/registered design professional name: _____

Builder/reg. design pro. signature: _____

Conditioned floor area: _____ sq ft (per building permit)

R-Values (R303.1.1)

Ceiling/Attic: Vaulted R-_____ Floors: Over unconditioned space R-_____ Attic R-_____ Slab-on-grade floor R-_____

Walls: Above grade R-_____ Fully insulated slab? Y/N (Circle one) Below, int. R-_____ Doors: R-_____ R-_____ Below, ext. R-_____

U-Value of Windows, Skylights and Doors (R303.1.1.3)

Average area weighted U-value from Glazing Worksheet: _____ Average U-_____

Fuel Normalization (Tables R406.2) and Energy Credits (Table R406.3)

System Type Number (1 to 8): _____ (Select one)

Energy Credits associated (1 to 7): _____

Fuel Normalization Credit: _____ + Total Energy Credits: _____ = Total Credits: _____

Heating, Cooling and Domestic Hot Water

System Type (Manufacturer and Model Number)	Efficiency
Heating	
Cooling	
DHW	
Drain water heat recovery	

Onsite Renewable Energy Electric Power System

System type: _____ System design capacity: _____ kW

Rated annual generation: _____ kWh/yr

Appliances	Manufacturer and Model	Energy Star? (Circle one)
Dish washer		Y or N
Refrigerator		Y or N
Washer		Y or N
Dryer		Y or N

Gas fireplace / heating stove (Section R402.4.2) _____ Fireplace efficiency (FE) _____ Heating or Decorative? (Circle one) _____

HVAC System Duct Leakage Testing (R403.3) Circle one

All ductwork and air handler in conditioned spaces? (See Option 4.2) Y or N

All ductwork in unconditioned spaces buried and tested at 3% total leakage, and air handler in conditioned spaces? (See Option 4.1) Y or N

All ductwork & air handler outside conditioned space insulated to minimum R-3? Y or N

Air handler present at duct leakage test? (Total leakage 4% if yes, 3% if no) Y or N

HVAC leakage to outside test conducted at final? Y or N

Do HVAC duct leakage tests include QPB and time stamp verification? Y or N

HVAC system leakage test calculated design target: _____ CFM @ 25 Pa

HVAC system leakage test measured results: _____ CFM @ 25 Pa

Building Leakage Testing (R402.4.1.2)

Dwelling unit leakage test calculated design target: _____ ACH @ 50 Pa

Dwelling unit leakage test, measured results: _____ ACH @ 50 Pa

Whole Building Leakage test (R2 corridor only) design target: _____ CFM/sf @ 50 Pa

Whole Building Leakage test (R2 corridor only) measured: _____ CFM/sf @ 50 Pa

Do building leakage tests include QPB and time stamp verification? Y or N

Whole House Ventilation System Measured Flow Rates (M1505.4 IRC-WA) Circle one

Are the system controls correctly labeled? Y or N

The Whole House Ventilation (WHV) system operation and maintenance (O&M) instructions were provided to the building owner? Y or N

Provided to: _____ on _____ (date)

Whole House Ventilation System Type: (Circle one)

(1) Whole house exhaust fan, location _____

(2) Balanced HRV/ERV, location _____

For R2 riser, serves more than one unit? Y or N

(3) Supply or HRV WHV integral to the air handler. Describe system control sequence of operations or reference to design submittal: _____

Specify run-time: _____ hours per day

WHV calculated design minimum flow rate per plan submittal: _____ CFM

WHV measured min flow rate at commissioning: Exhaust _____ CFM, Supply _____ CFM

Do WHV flow tests include QPB and time stamp verification? Y or N

HRV/ERV sensible heat recovery efficiency: _____

Commissioning Notes: _____

Other Mandatory Requirements Circle one

All other mandatory requirements of WSEC-R have been met? Y or N

PROJECT NAME

TEAM: _____ GH

CHECKED: _____ AS

DRAWING REVISION

DESCRIPTION NO. DATE

PERMIT SET 2021-07-14

ENERGY & SCHEDULES

A11

ATVAGA LLC
170 W Dayton St, Ste 204 Edmonds, WA 98020
atvaga.com

PROJECT ADDRESS