SDNW ADU ENTRY 2 - MOLLY'S GRANNY/NANNY FLAT - ACCESSIBLE DESIGN & FAMILY-FRIENDLY DADU

PROJECT SUBMITTED BY S.A.G.E. DESIGNS NW ARCHTIECTURE STUDIO INC SAGE K. SASKILL ~ ARCHITECT SAGE@SAGEDESIGNSNW.BIZ 206.963.1420

PROJECT DESCRIPTION

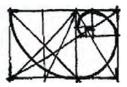
DADU with a 22' x 26' footprint and a 10' x 21' loft space. Gross sf of the living space comes in at approximately 735sf. This project was designed when the allowable maximum size was 800sf.

NARRATIVE

This is a true Granny Flat the backyard of the client's daughter's home. Family includes her daughter's husband, twins, and an infant). Granny Molly is part of the caregiver team for the three kids and this place is a lovely well-functioning multigenerational property. Key components of the design include excellent natural light and also very well placed artificial lighting. The client is an elder person with poor eyesight so this was a design element from the beginning. Project also features passive solar design (see sections) by key placement of a set of transom windows, lots of south windows on the main level. Strategic window placement combined with eave sizing allows the winter and 'shoulder month' light to come in while blocking the summer solstice sun. This home is also designed for 'aging in place' or universal design features such as wide doorways, roll-in shower, raised laundry machines and several other accessible design features. This cottage has been on the Northwest Ecobuilding Guild's Green Home Tour twice and is well loved by all who visit. It is a very comfortable space with lots of light and good flow. Excellent layout and use of space for one person and the kids can play in the loft without creating trip hazards with toys scattered on the main level. Another design element worth noting was the desire of the client family for this dwelling to "look like it has always been there". This was accomplished with a palate of materials and colors to match the existing house and trim complete with a new trellis to mimic the existing heavy timber patio trellis at the "big house".

Though some of the DD drawings show a stair this proved to occupy too much floor space so a ladder was utilized.

Please note that I have included some of the construction documents to fulfill the submittal requirements such as construction assembly notes (materials) and room dimensions.



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client city of seattle

date 2.15.2020

phase adu entry



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ESTIMATED CONSTRUCTION COST \$250,000.00. - COMPLETED IN 2017

MECHANICAL SYSTEMS INCLUDE
PANASONIC WHISPER GREEN WHOLE HOUSE FAN
DUCTLESS MINI SPLIT SYSTEM WITH TWO HEADs - ONE IN
THE MAIN LIVING SPACE AND ONE IN THE BEDROOM. Note:
Though according to the HVAC rep one head would handle the
volume, it was critical that the bedroom could be cooled so
rather than take a gamble on the empirical numbers, we put in
a second head.

RADIANT HEAT PANELS FOR SUPPLEMENTAL HEAT AT LOFT ON-DEMAND WATER HEATER

PRICE FOR THE PLAN \$1000.00 \$150.00/HR FOR ANY FURTHER WORK

ABOUT SAGE

I consider myself a master space planner and especially a master of small spaces. In every design I strive to make every square foot count if not every square inch. Privacy within the home as well as from outside as well as how the sun comes in to the building are also key components of every project. Sustainable materials and construction methods have been instrumental in my architecture practice for over 20 years. Thank you for considering my Entry in to the ADU Stock Plan Challenge.

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NEW WINDOW NOTES:

1, "U" VALUES TO BE NFRC CERTIFIED,

2. GLASS TO BE TEMPERED (S.G.) WHERE REQUIRED PER IRC SEC. R308.4

3. WINDOWS & DOORS SHALL LIMIT INFILTRATION PER ASTM 3 28-73. 4. WINDOWS MAX. U-VALUE = 0.30, TYP. PER WSEC TABLE 13-1

5. FRESH AIR INLETS (TRICKLE VENT) TO BE PROVIDED INTEGRAL TO WINDOW OR SEPARATE

IN WALL EACH OCCUPIABLE SPACE PER SMC 403.8.6.1.

DOOR SCHEDULE							
MARK	QTY	UNIT WIDTH	UNIT HEIGHT	TYPE	U-VALUE	LOCATION	NOTES
	1	3'-0"	6'-8"	EXT. 25% GLASS	.30	ENTRY	
2	PAIR	2'-0" EA	7'-0"	INT, SOLID		BEDROOM	BARN DOOR (SLAB)
3	1	2'-0"	7'-0"	INT, SOLID		COAT CL	BARN DOOR (SLAB)
4	1	3'-4"	7'-0"	INT, SOLID		BATHROOM	BARN DOOR (SLAB)
(5)	PAIR	4'-2" ±	6'-8"	INT, SOLID		BEDRM CL	BARN DOOR (SLAB)
				ı			

A EAVE REQUIREMENTS FIREBLOCKING PROVIDED AT NORTH PER CODE

EAVES WITHIN 5 FEET OF PROPERTY LINE (NORTH) PER SRC TABLE R302.1 (1) FOOTNOTE a: ROOF EAVE FIRE-RESISTANCE RATING SHALL BE PERMITTED TO BE REDUCED TO 0 HOURS ON THE UNDERSIDE OF THE EAVE IF FIREBLOCKING IS PROVIDED FROM THE WALL TOP PLATE TO THE UNDERSIDE OF THE ROOF SHEATHING.

NO EAVE VENTING WILL BE ALLOWED AT THIS LOCATION.

AIR LEAKAGE TESTING

THE BUILDING SHALL BETESTED AND VERIFIED AS HAVING AN AIR LEAKAGE RATE OF NOT EXCEEDING 5 AIR CHANGES PER HOUR, TESTING SHALL BE CONDUCTED WITH A BLOWER DOOR AT A PRESSURE OF

0.2 INCHES W.G. (50 PASCALS) PER SEC R402.4.1.2. AWRITTEN REPORT OF THE TEST RESULTS SHALL BE SIGNED BY THE TESTING PARTY AND PROVIDED TO THE BUILDING INSPECTOR,

PRIOR TO CALL FOR FINAL INSPECTION.

		VENTILATION SCHEDULE
SYMBO	OL .	CONTINUOUS WHOLE-HOUSE AIRFLOW RATE REQUIRED CFM PER 2012 SRC TABLE M1507.3.3(1)
Ø ;	>	LESS THAN 1500 SF / 2-3 BEDRMS MIN. 45 CFM
()	>	100
← 📆 2		50
NOTES: 1. 1.1. 1.2. 1.3. 2. 3.	F S F USE i	E HOUSE FAN PROVIDE 24-HR AUTO-TIMER W/ CONTINUOUS, AUTO, & MANUAL OPERATION. BET TO RUN CONTINUOUS PANASONIC WHISPER GREEN BOO CFM (MIN) FAN & KITCHEN BOO CFM (MIN) FAN & ALL OTHER LOCATIONS

ALL FANS TO VENT TO OUTSIDE (V.T.O.)

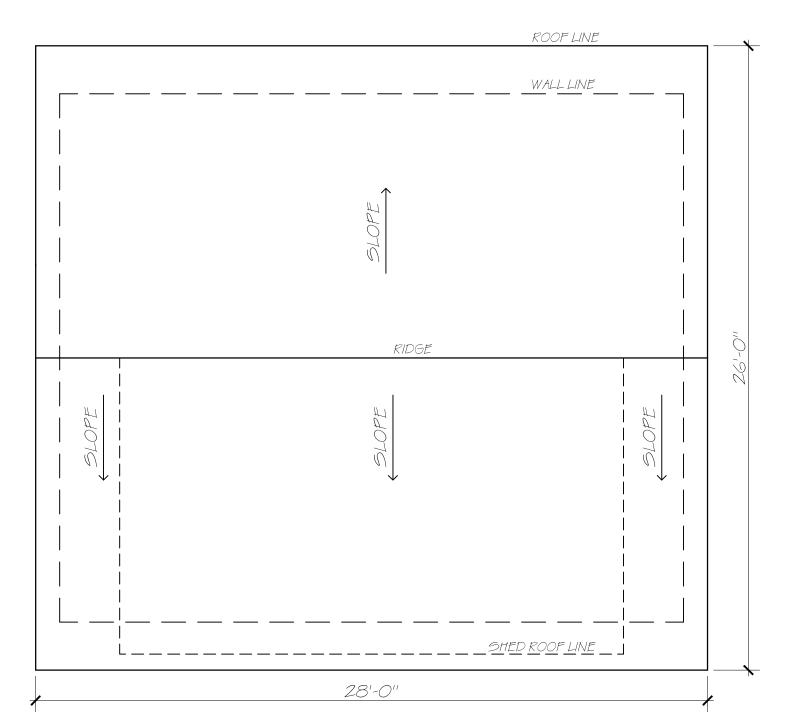
PROVIDE OUTDOOR AIR INLETS PER WINDOW SCHEDULE & NOTES

DISTRIBUTE OUTDOOR AIR INLETS PER SRC MISO73.4.4

MECHANICAL VENTILATION TO COMPLY WITH SRC M1507

INSULATION SCHEDULE PER WSEC TABLE R402.1.1							
WALL	FLOOR 5,0,6.	FLOOR	CEILING	VAULTED CEILING	BELOW GRADE	GLAZING	SKYLIGHT
R-21	R-10	R-30	R-49	R-38	R-10/15/21	U-0.30	U-0.50
2, U- 3, IC Th 4, Rt 5, BU	VALUES ARE MI FACTORS ARE I O / 15 / 21 MEAN TE INT. OF THE W EFER TO WASHII UILDER SHALL (ONSTRUCTION' PPLIED SPRAY F PRODUCT: S ICC ESR REF	MAXIMUMS IS R-10 CONTO VALL, R-21 IN: NGTON STAT COMPLETE AS I WITHIN 3FT S FOAM MUST E PRAYTITE BY B ORT FOR PR	SULATION CA E ENERGY CO ND POST AN OF THE ELEC BE INSTALLE BASF Corporat ODUCT USEI	N ON THE EXT. OF THE W IVITY PLUS THERMAL BY ODE FOR ADDITIONAL D "INSULATION CERTIFIC TRICAL PANEL PRIOR TO D BY A CERTIFIED INST, ION, ESR-2642; D MUST BE PROVIDED IMPERMEABLE & AIR PE	REAK BTWN.WALL & DETAILS & EXCEPTION FINAL INSPECTION ALLER ON JOB SITE;	SLAB, ONS, TIAL ON	I ON

ENERGY CREDIT SCHEDULE
MANDATORY EFFICIENCY REQUIREMENTS PER 2012 SEATTLE ENERGY CODE TABLE R406.2
SMALL DWELLING UNIT = 0,5 POINTS REQUIRED
OPTION 3b = 1.0 POINTS - HIGH EFFICIENCY HV AC EQUIPMENT / SEE CODE FOR ADDITIONAL REQUIREMENTS
DUCTLESS MINI-SPLIT/ HEAT PUMP EQUIPMENT; MITSUBISHI MXZ-2B2ONA-1; SEER 18.0



ROOF PLAN

EQUIPMENT LIST

GAS COOKTOP HOOD W/ FAN/LIGHT COMBO SLIM FRIDGE W/ICEMAKER SLIM DISHWASHER UNDERMOUNT SINK GARBAGE DISPOSAL UNDERCABINET LIGHTS W/OUTLETS MICROWAVE OVEN (NUKER)

LNING ROOM GAS FIREPLACE INSERT FLATSCREEN MOUNTING ARM

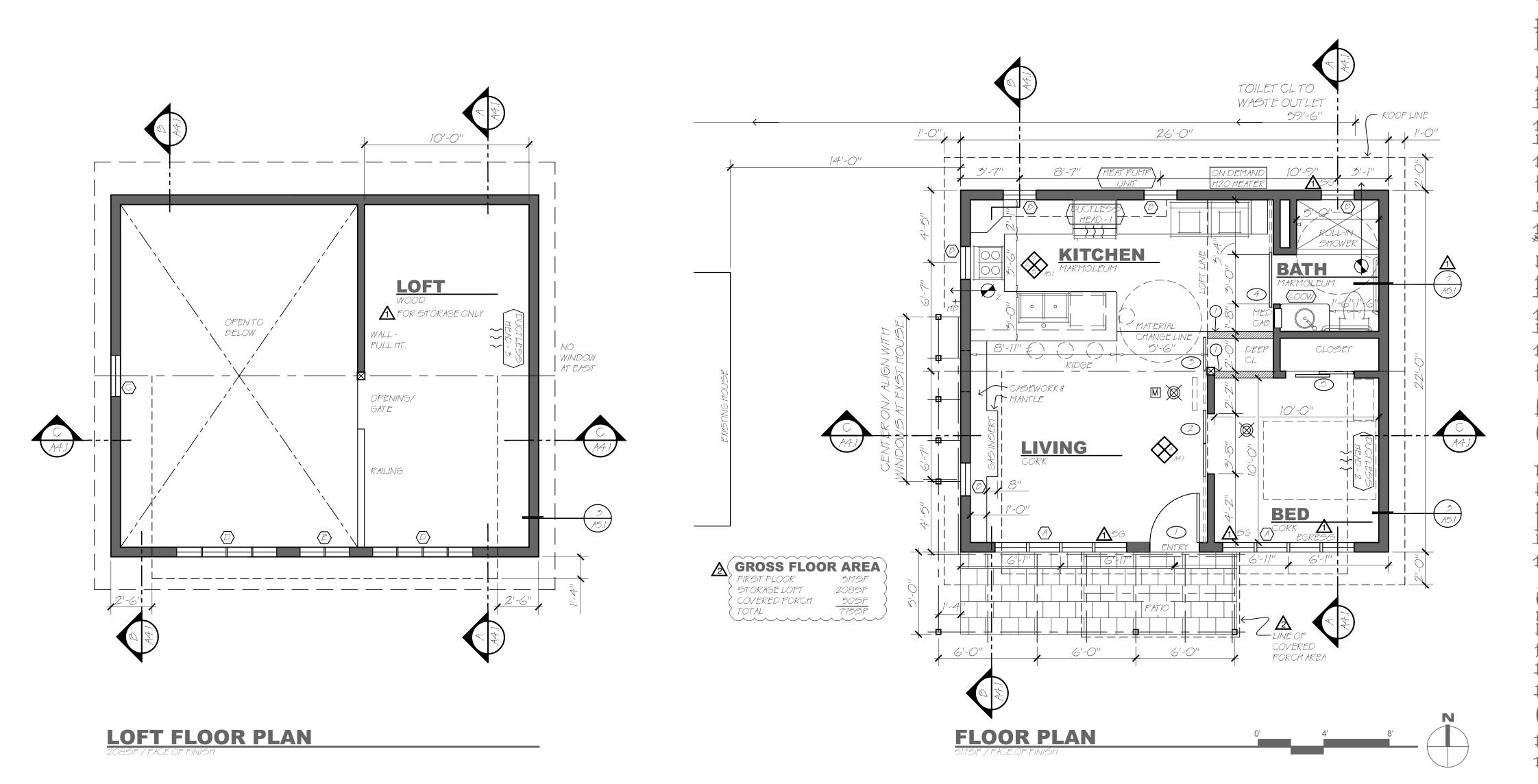
WASHER/DRYER

ON-DEMAND HOT WATER HEATER DUCTLESS MINI SPLIT HEAT PUMP

WITH THREE INTERIOR HEADS RADIANT HEAT PANEL IN BATHROOM PLUMBING MANIFOLD - MANIBLOK

PLAN NOTES

O INTERIOR WALL - BUILT TO BE REMOVED IN FUTURE



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in collaboration with LASTING NEST, INC. General Contractors **Michael Vacirca** 206.550.0326 lastingnest.biz

dci approval:

THE CITY OF SEATTLE
EPARTMENT OF CONSTRUCTION AND INSPECTION APPROVED **Subject to Errors and Omissions** 08/24/2016

VISUALIZE **ACTUALIZE** Your

Dreams revision: number|date dci cycle 1 7.22.2016 dci cycle 2 8.5.2016

Green Building

owner: molly

address: 2608 46th ave sw seattle wa 98116

kirkland

project #s: sdnw 160212 dci 6522387

phase: permit submittal

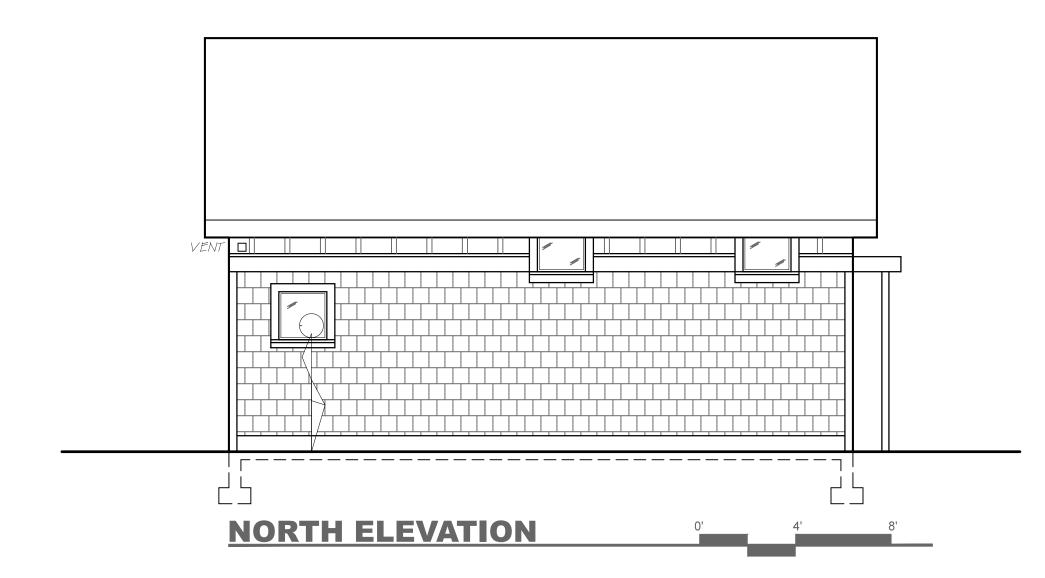
date: 10 june 2016

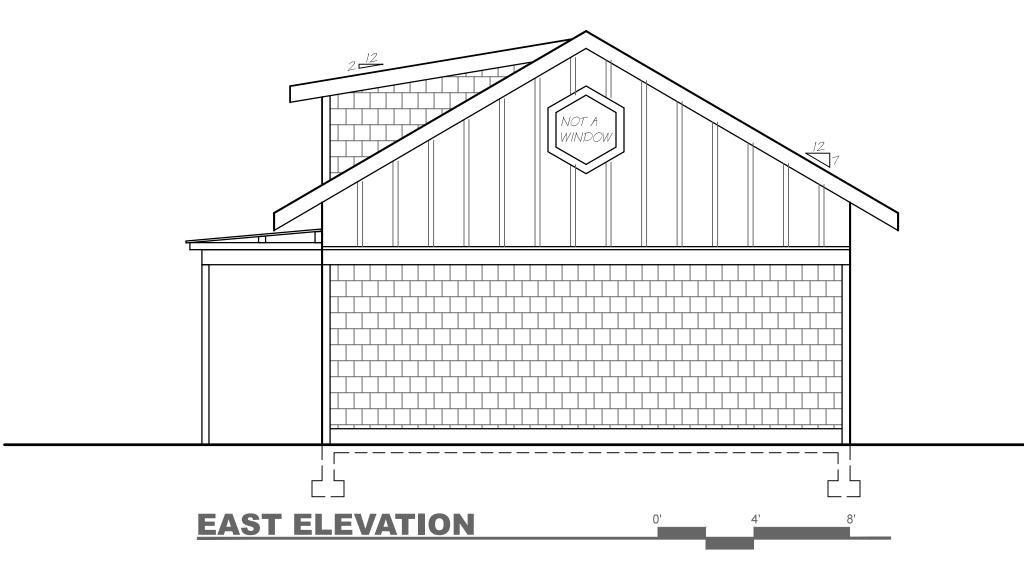
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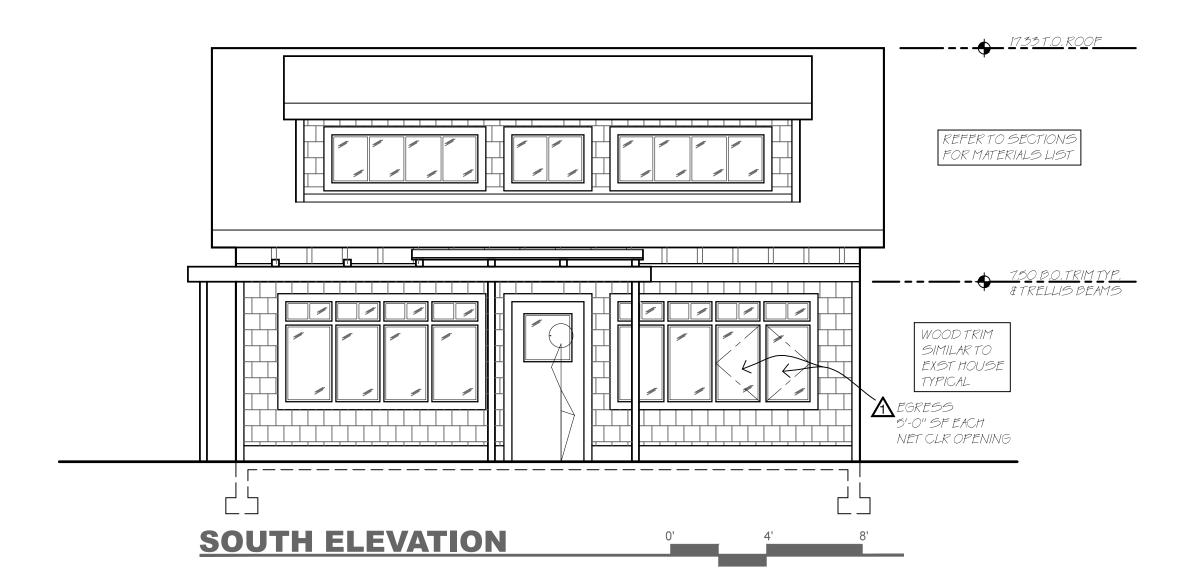
plans schedules

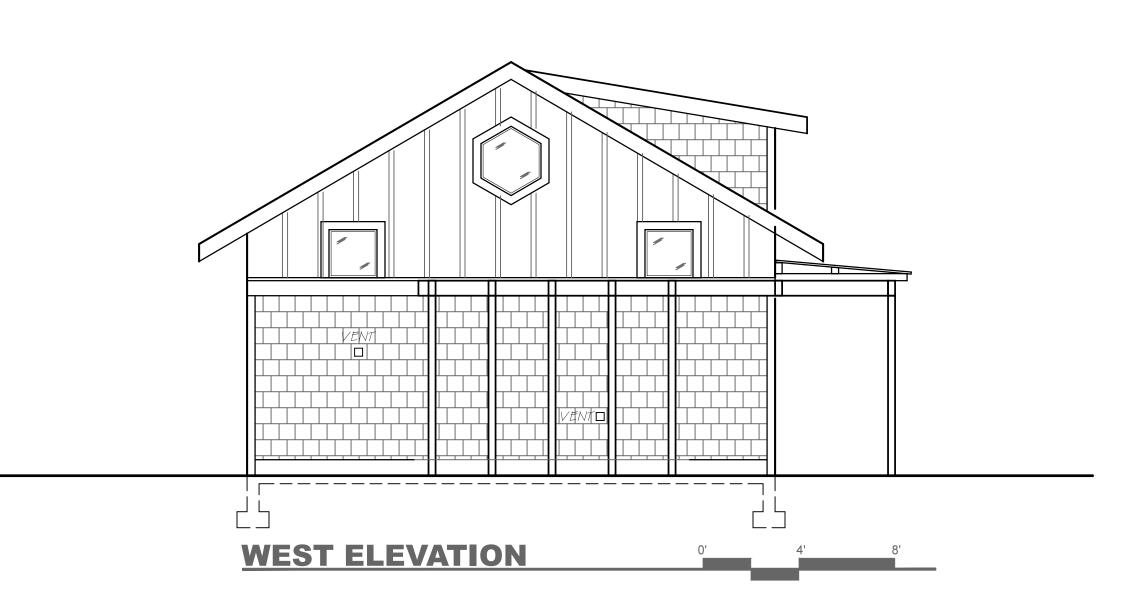
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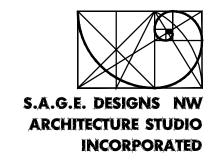
sheet:











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LASTING NEST, INC.

General Contractors

Michael Vacirca

206.550.0326



dci approval:

THE CITY OF SEATTLE
DEPARTMENT OF CONSTRUCTION AND INSPECTIONS
APPROVED
Subject to Errors and Omissions

08/24/2016

VISUALIZE

ACTUALIZE

Your

Green Building
Dreams

revision:
number|date
dci cycle 1 7.22.2016

owner:

molly kirkland

a d d r e s s : 2608 46th ave sw seattle wa 98116

project #s: **sdnw 160212 dci 6522387**

phase:

permit submittal

d a t e : **10 june 2016**

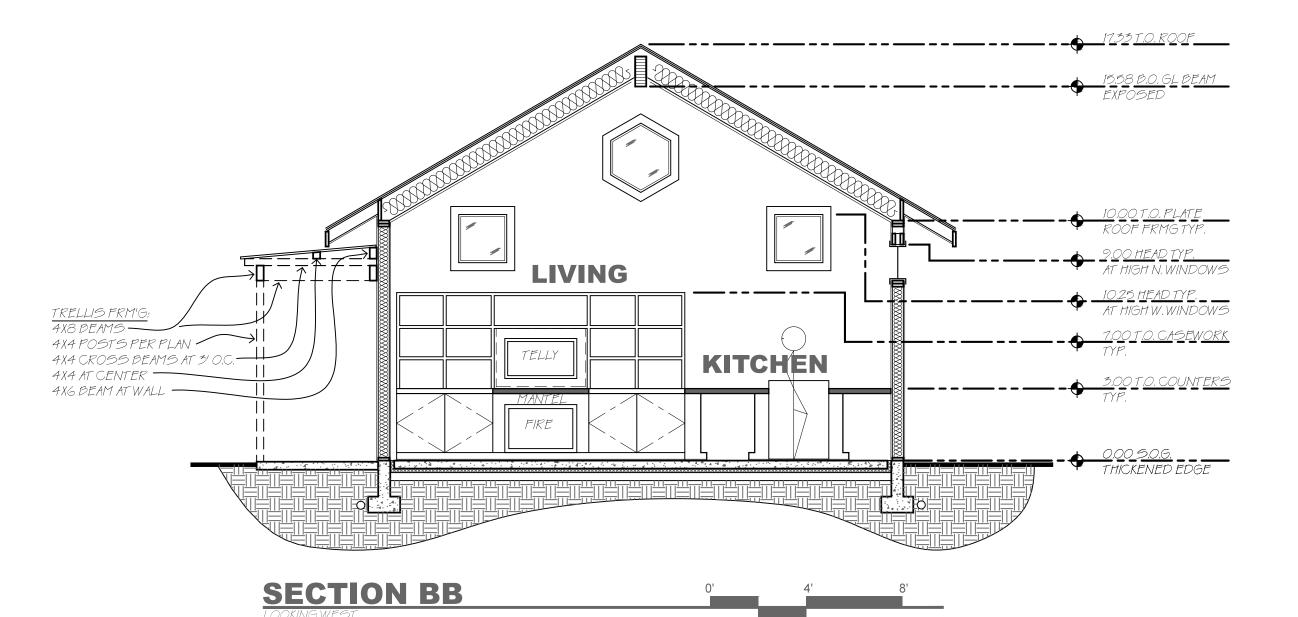
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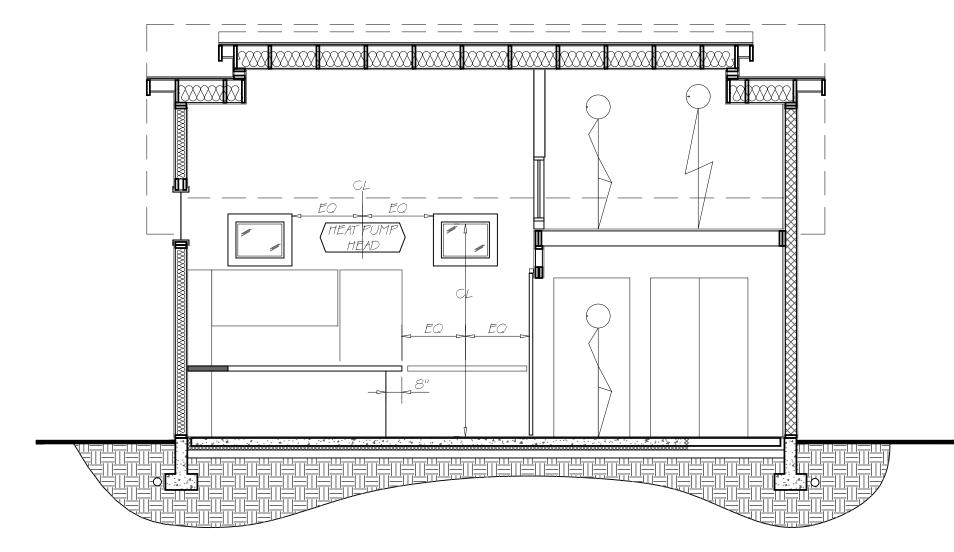
exterior elevations

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

sheet:

A3.1





SECTION CC

TYPICAL CONSTRUCTION ASSEMBLY NOTES

FLOOR ASSEMBLY: SLAB ON GRADE PER STRUCTURAL OVER R-10 INSULATION ENTIRE SLAB PER SECTIONS OVER SUBSTRATE PER STRUCTURAL FOOTINGS PER STRUCTURAL RECESSED SLAB & LINEAR DRAIN AT SHOWER FINISH FLOORING PER PLAN NOTES

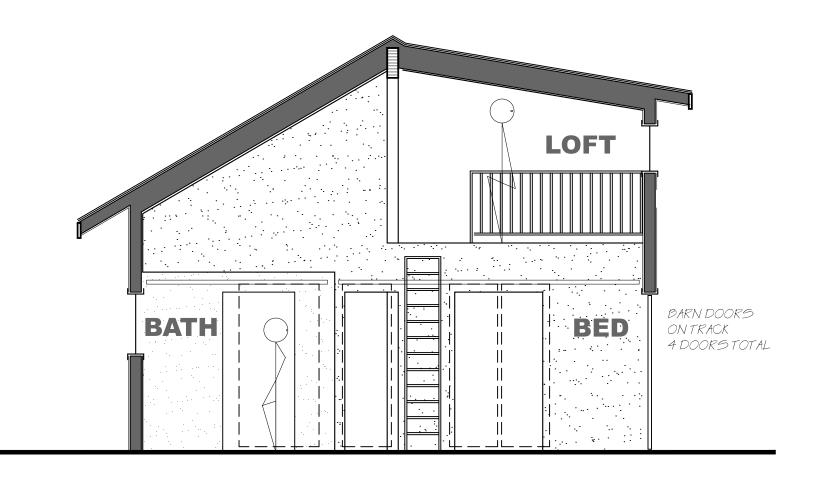
EXTERIOR WALLS TYPICAL: 2X6 FRAMING PER STRUCTURAL R-21 INSULATION MINIMUM PLYWOOD SHEATHING PER STRUCTURAL **BUILDING PAPER** RAIN SCREEN PER CONTRACTOR'S CHOICE HARDI SIDING PER ELEVATIONS GWB INTERIOR TYPICAL

EXTERIOR WALL AT EAST: SOUND WALL ASSEMBLY PER DETAIL 3/A5.1

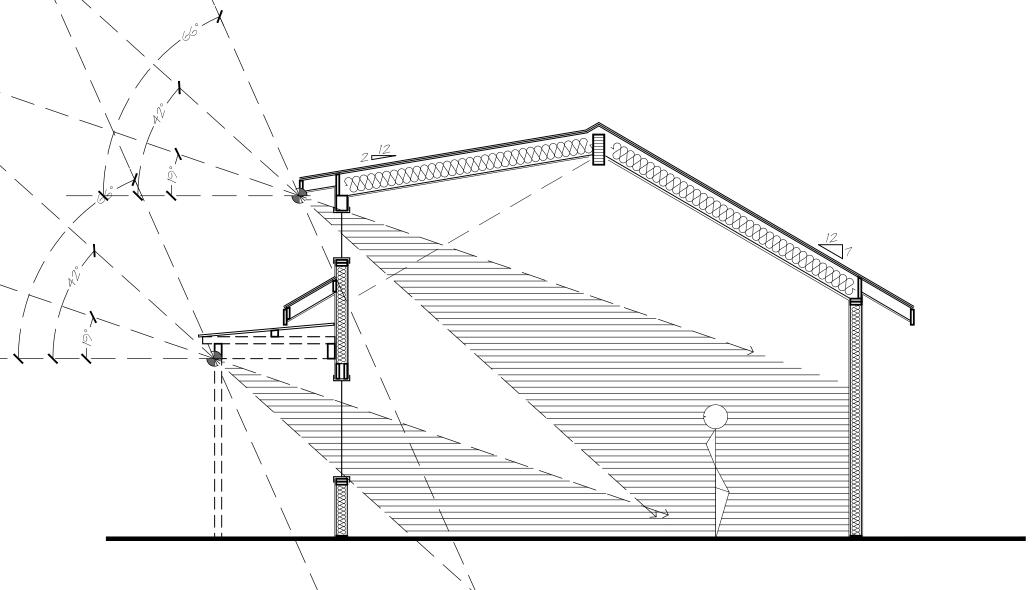
MISCELANEOUS: COUNTERTOP & MANTLE - BOWLING ALLEY LANE BACKSPLASH - SUBWAY TILE ROOF/CEILING ASSEMBLY:
ROOFING - METAL OR COMP SHINGLE TYPICAL GRACE VYCOR ENTIRE SURFACE RAFTER FRAMING PER STRUCTURAL RIDGE BEAM VISIBLE AT INTERIOR NON-VENTED ASSEMBLY 1 INCH SPRAY FOAM & R-38 BATT INSULATION MINIMUM GWB INTERIOR TYPICAL (BEADBOARD 'LOOK' PREFERRED)

INTERIOR WALLS: 2x4 WOOD FRAMING AT 16" O.C. GWB EACH SIDE TYPICAL TILE INTERIOR OF BATHROOM

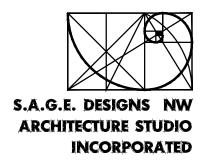
LOFT CONSTRUCTION: T&G FLOORING PER STRUCTURAL 2x8 WOOD FRMG @ 16" O.C. PER STRUCTURAL EXPOSED FRAMING AT BEDROOM & KITCHEN GWB CEILING AT BATHROOM ONLY



SECTION / ELEVATION 4



SOLAR ANGLE STUDY



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Dreams

revision: number|date

owner:

molly kirkland

address: 2608 46th ave sw seattle wa 98116

project #s: sdnw 160212 dci 6522387

phase:

permit submittal

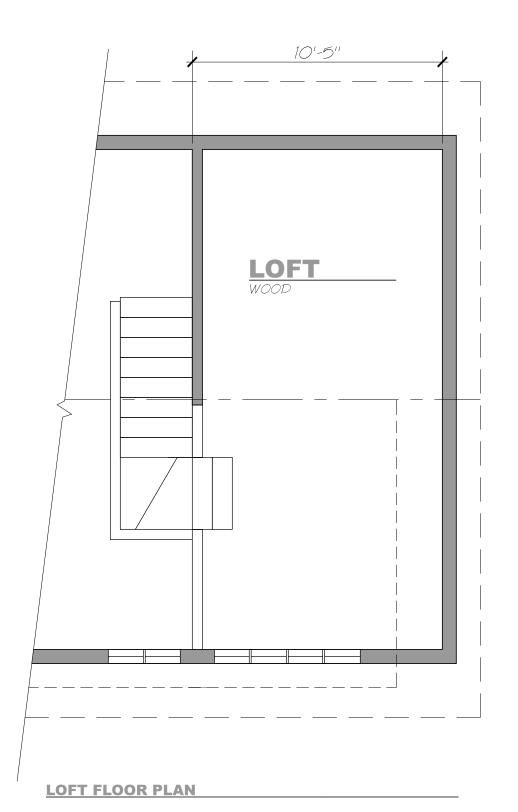
date: 10 june 2016

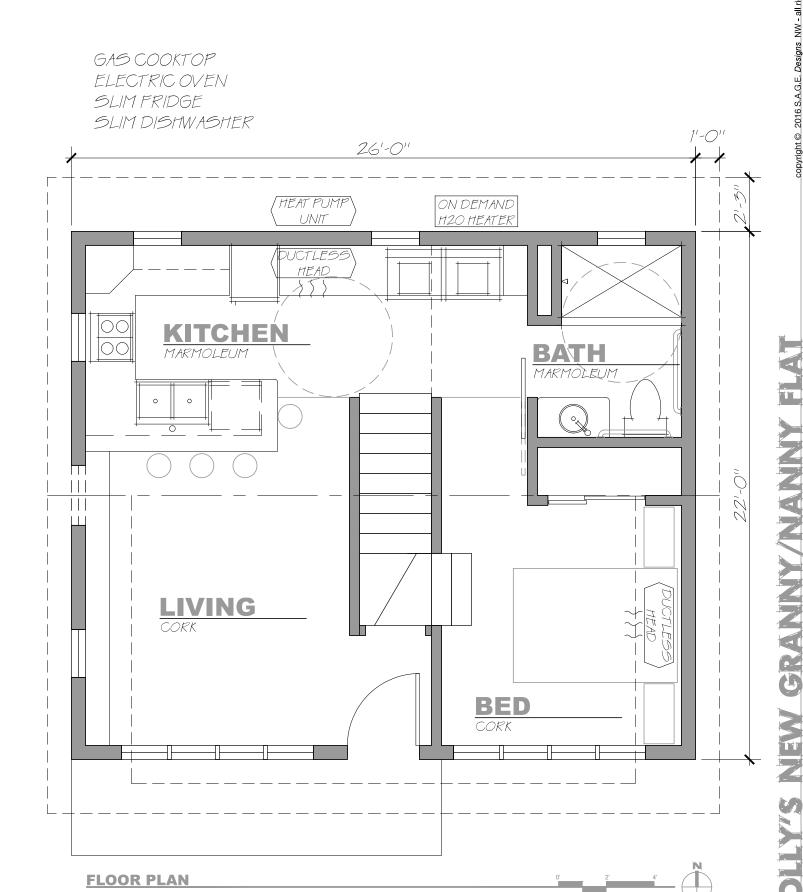
drawing title:

sections int elevs

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

sheet:





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revision: number|date

owner:

molly kirkland

address: 2608 46th ave sw seattle wa 98116

project #s: sdnw 160212 dci 6522387

phase: design development

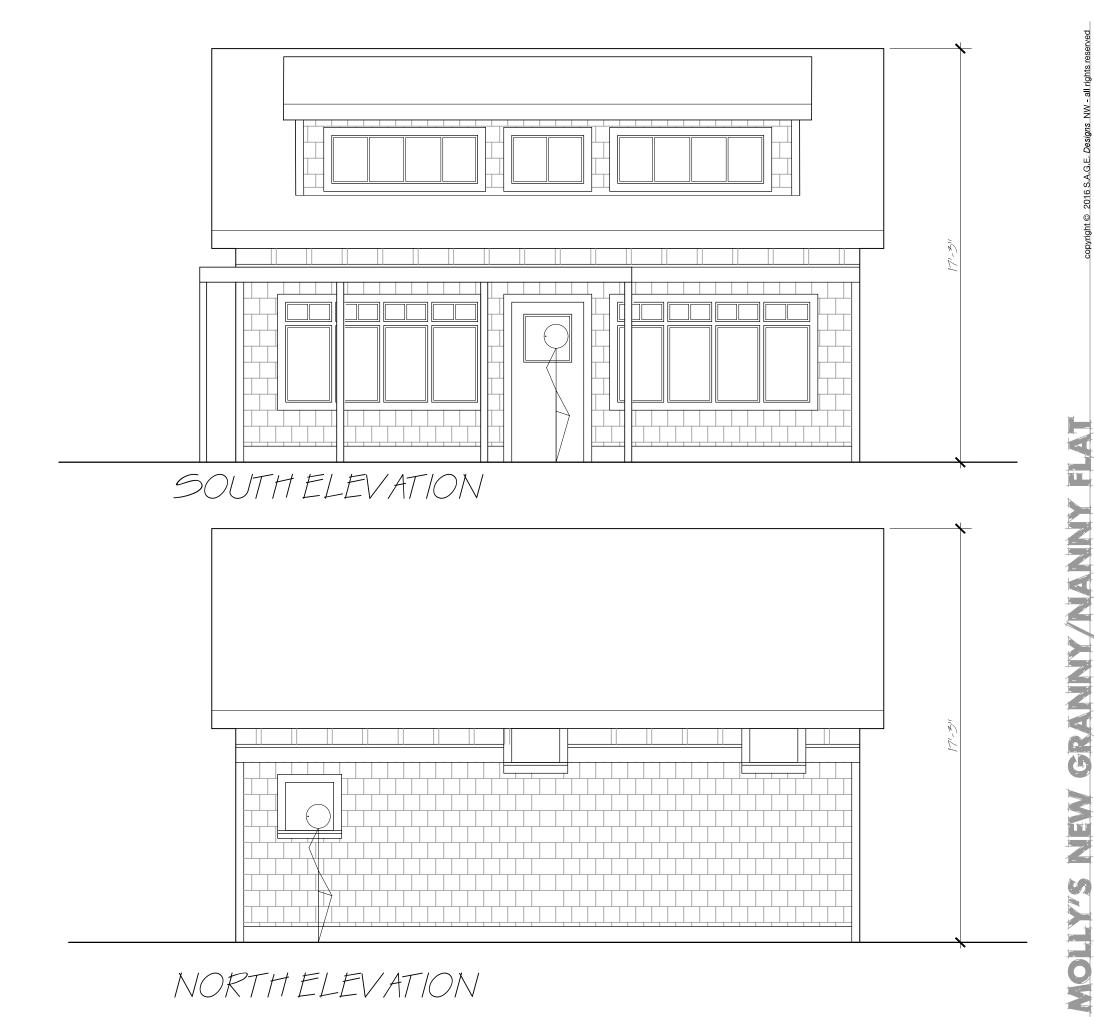
date: 5 may 2016

drawing title:

floor plan

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

dd2.1



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Architect 206.963.1420 sagedesignsnw.biz

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Dreams revision: number|date

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molly kirkland

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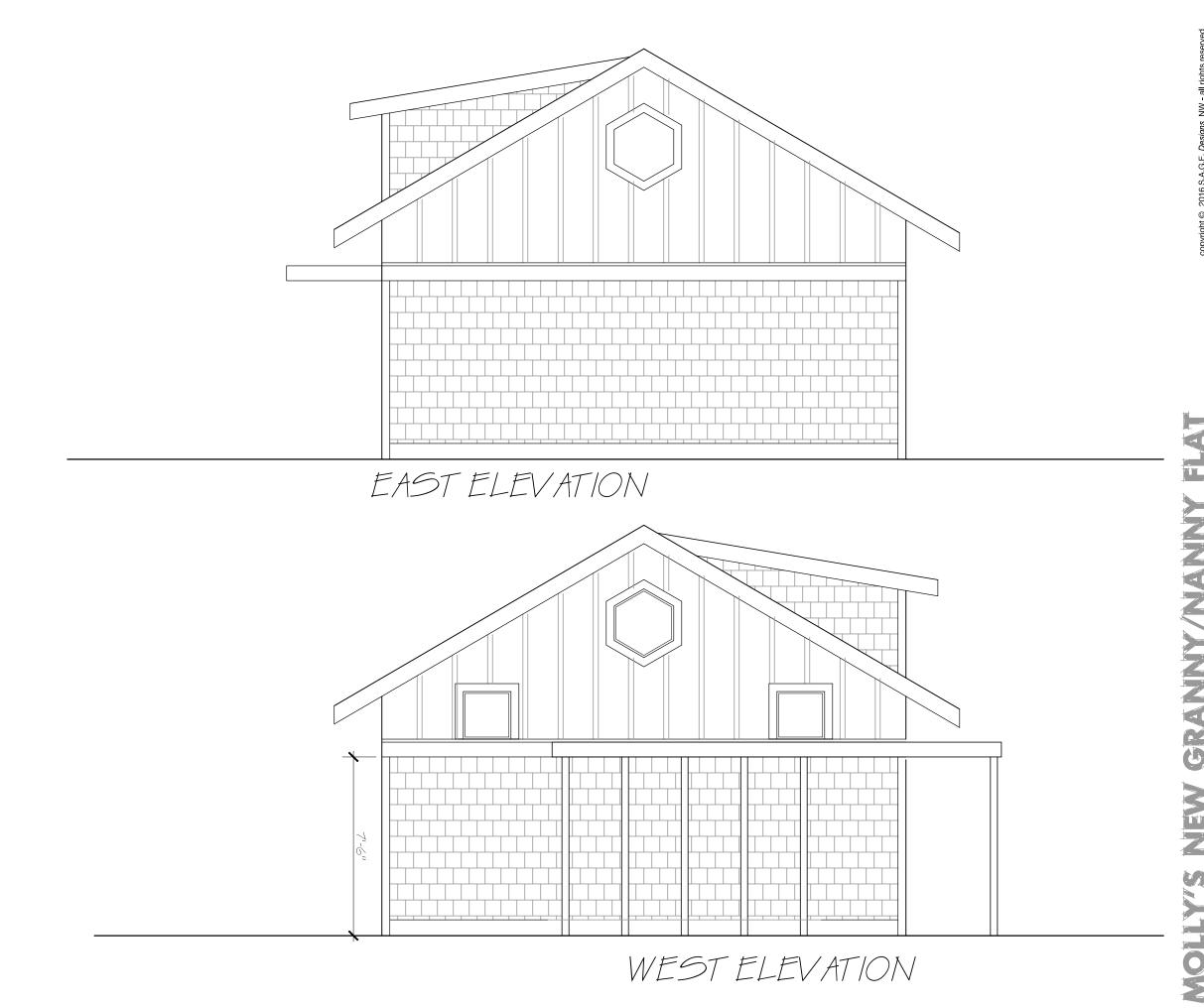
date: 5 may 2016

drawing title:

exterior elevations

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

dd3.1





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Green Environments

Architect

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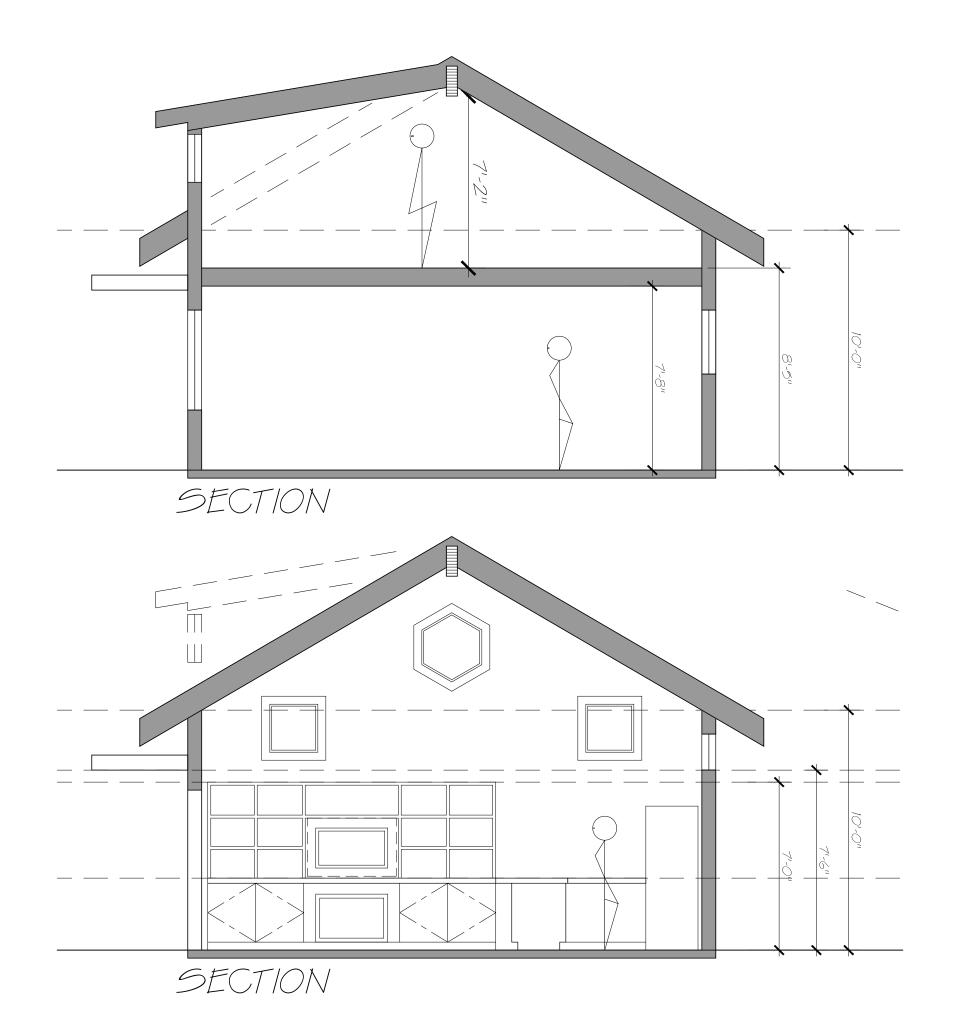
date: 5 may 2016

drawing title:

exterior elevations

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

dd3.2





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owner: **molly** kirkland

a d d r e s s : 2608 46th ave sw seattle wa 98116

project #s: sdnw 160212 dci 6522387

phase: design development

date: 5 may 2016

drawing title:

building sections

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

MOLL

dd4.1

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owner: **molly** kirkland

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building sections

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

sheet:

CHALLENGES









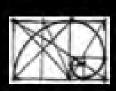




how on earth do you get to the loft?









Granny Flat ideas

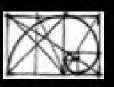
- -Roll-in shower
- -Wide doorways
- -Barn doors
- -Grab bars
- -Efficient kitchen
- -Raised laundry
- -Storage tucked
- ...Everywhere
- -Lots of Light
- -Climate control



loft plan







LIGHT LIGHT & more LIGHT

