



Massachusetts ADU Design Challenge | Project Cover Sheet

1. Design Team

Lead Applicant: Darguin Fortuna

Additional Applicants:

Design Firm Name (If Applicable): Flow Design Architects

Contact Info: dfortuna@flow-design-studio.com

2. Design Information

EntryID (randomly assigned by HLC for tracking purposes): 3567

Design Name: SUSTAINED LIVING

ADU Gross Floor Area (square footage): 900

Unit Layout: Two-Bedroom or more

ADU Height (feet): 29

Window/Wall Ratio: 11.8%

Foundation Type: Concrete Frost Wall

3. Project Narrative

The Sustained Living ADU is a 900-square-foot detached dwelling designed to demonstrate how small-scale housing can achieve long-term environmental performance, affordability, and adaptability in Massachusetts neighborhoods. The design embraces a simple, replicable form that maximizes daylight, passive solar gain, and spatial efficiency while meeting required energy performance thresholds. A highly insulated envelope, integrated solar wall, and rooftop photovoltaic array reduce operational costs and carbon footprint. The compact footprint is organized around flexible, multi-functional living spaces that support diverse households—from aging parents to young professionals. Durable, regionally appropriate materials and a straightforward structural system ensure feasibility, constructability, and long-term resilience.

Please note that the information contained in this file was submitted to the Executive Office of Housing and Livable Communities (HLC) by ADU Design Challenge participants and has not been independently verified by HLC or the Commonwealth of Massachusetts. Please direct questions to the designers.

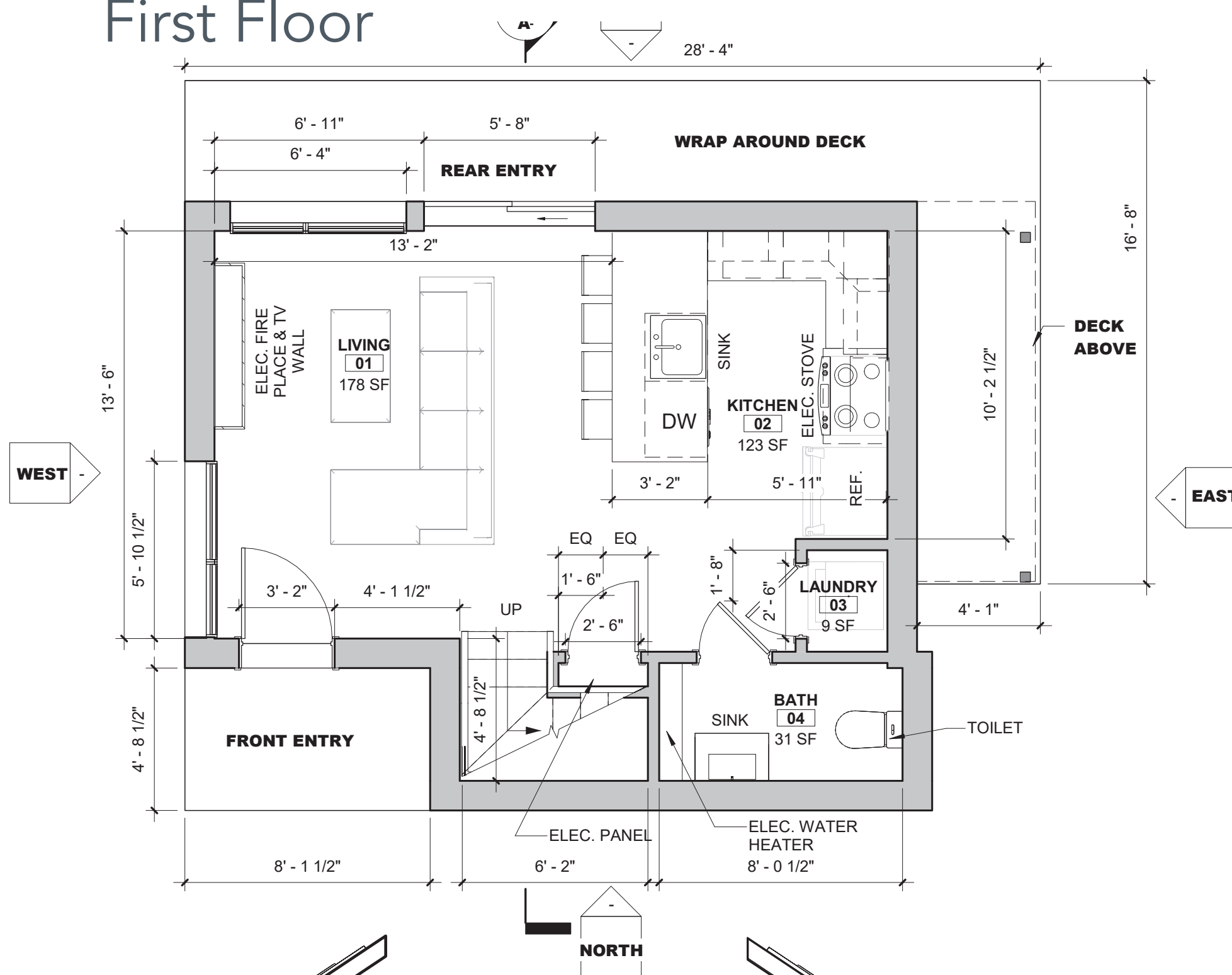
SUSTAINED LIVING

The Sustained Living ADU is a 900-square-foot detached dwelling designed to demonstrate how small-scale housing can achieve long-term environmental performance, affordability, and adaptability in Massachusetts neighborhoods. The design embraces a simple, replicable form that maximizes daylight, passive solar gain, and spatial efficiency while meeting required energy performance thresholds. A highly insulated envelope, integrated solar wall, and rooftop photovoltaic array reduce operational costs and carbon footprint. The compact footprint is organized around flexible, multi-functional living spaces that support diverse households—from aging parents to young professionals. Durable, regionally appropriate materials and a straightforward structural system ensure feasibility, constructability, and long-term resilience.

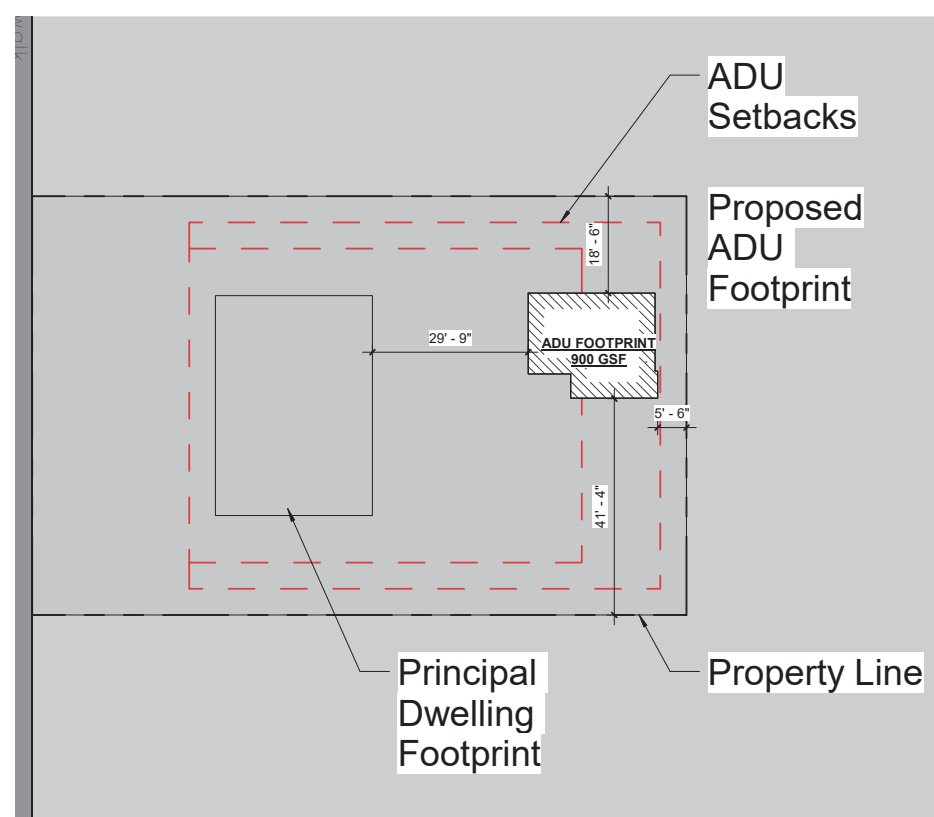
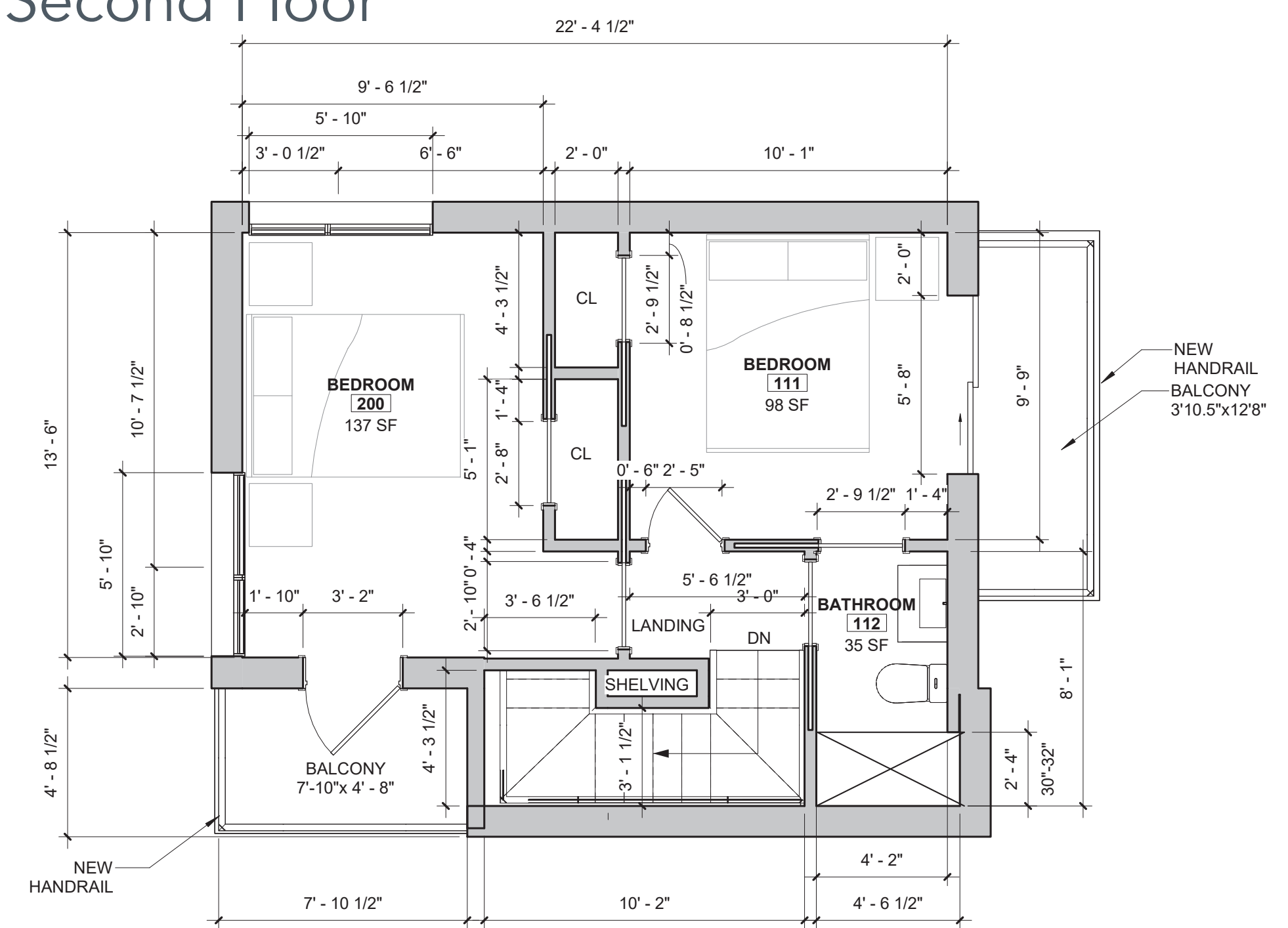
FRONT RENDERING



First Floor



Second Floor



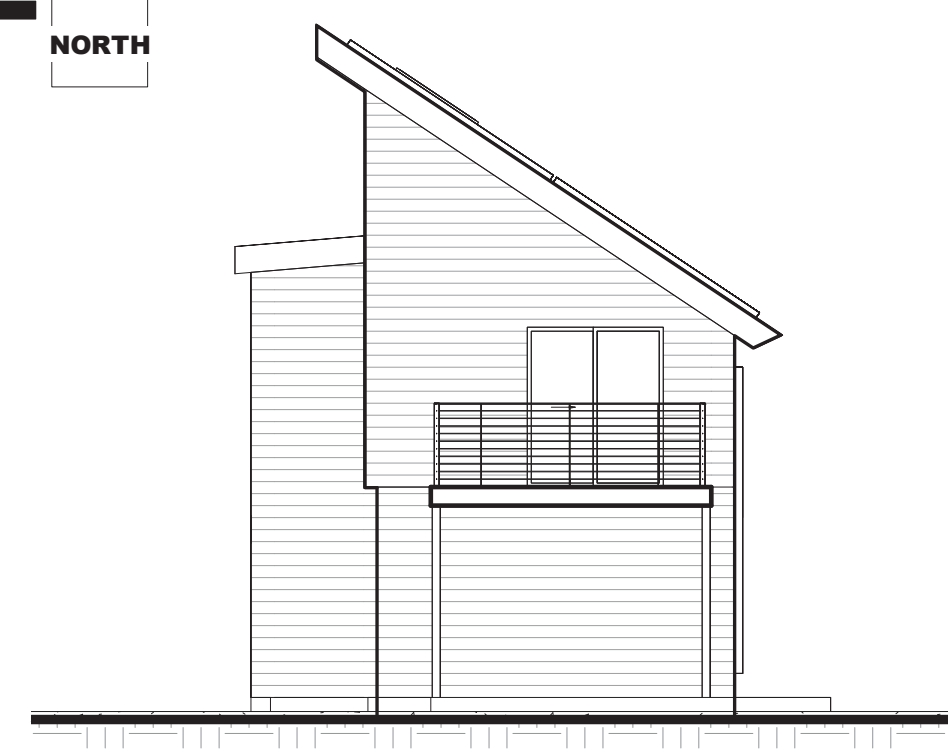
Site Plan



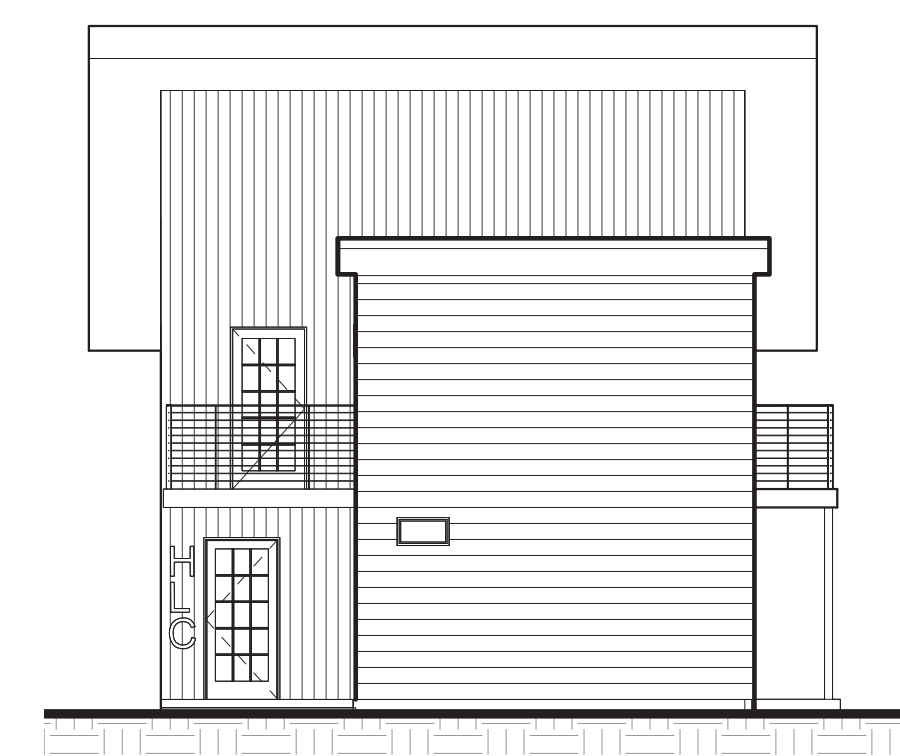
Interior Rendering



East



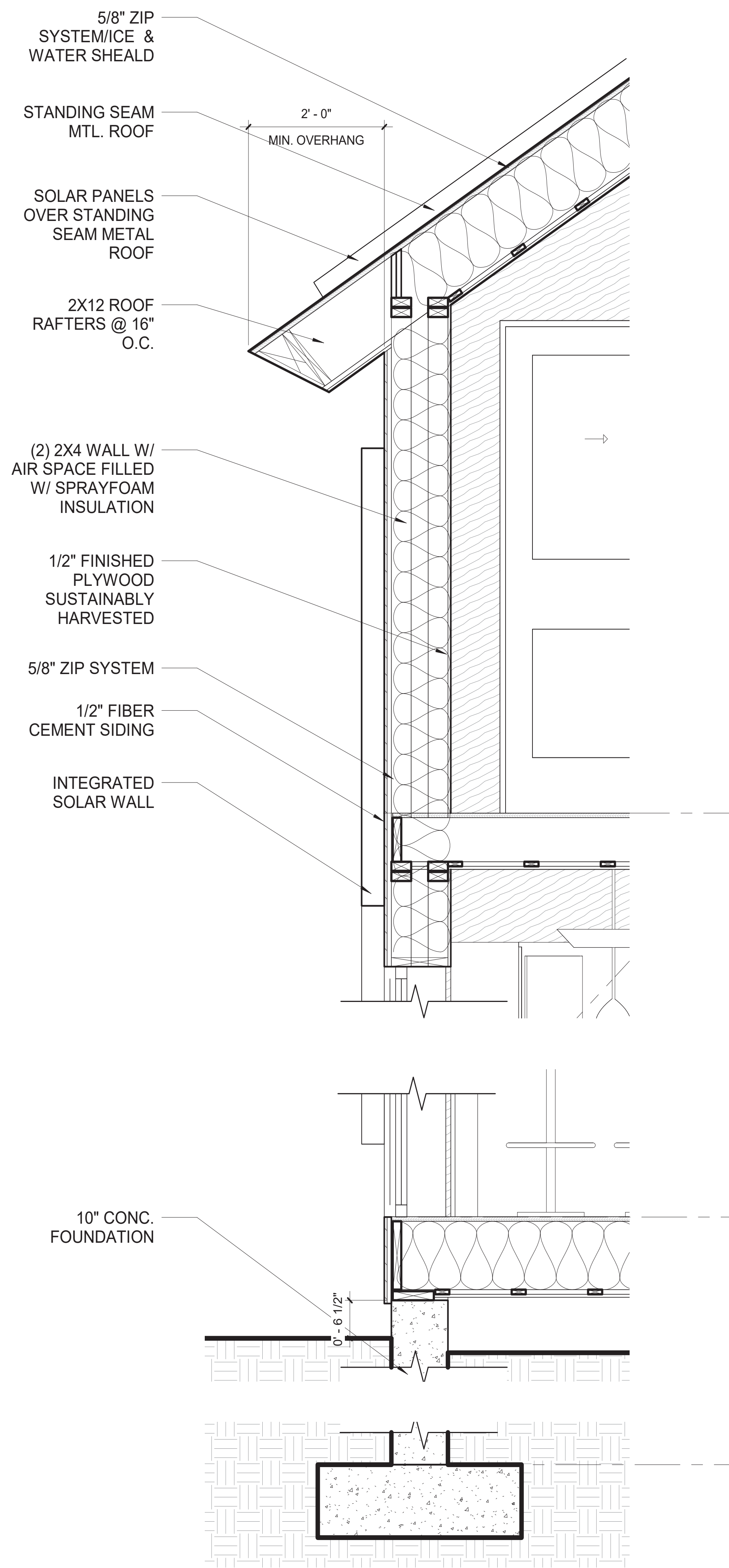
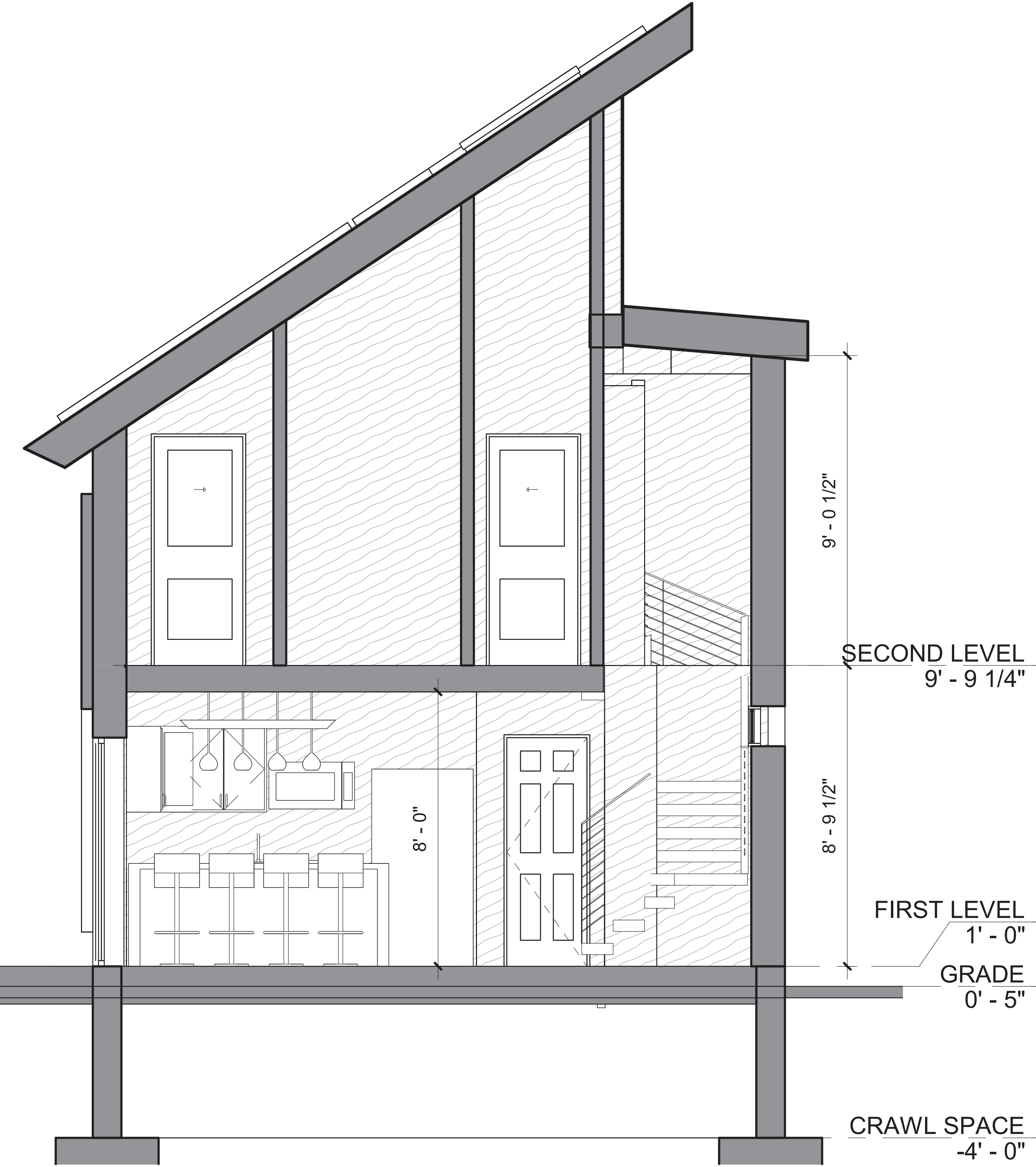
East



North



South

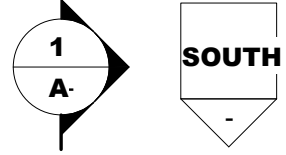


WALL SECTION

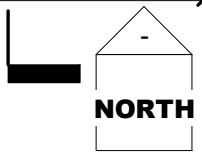
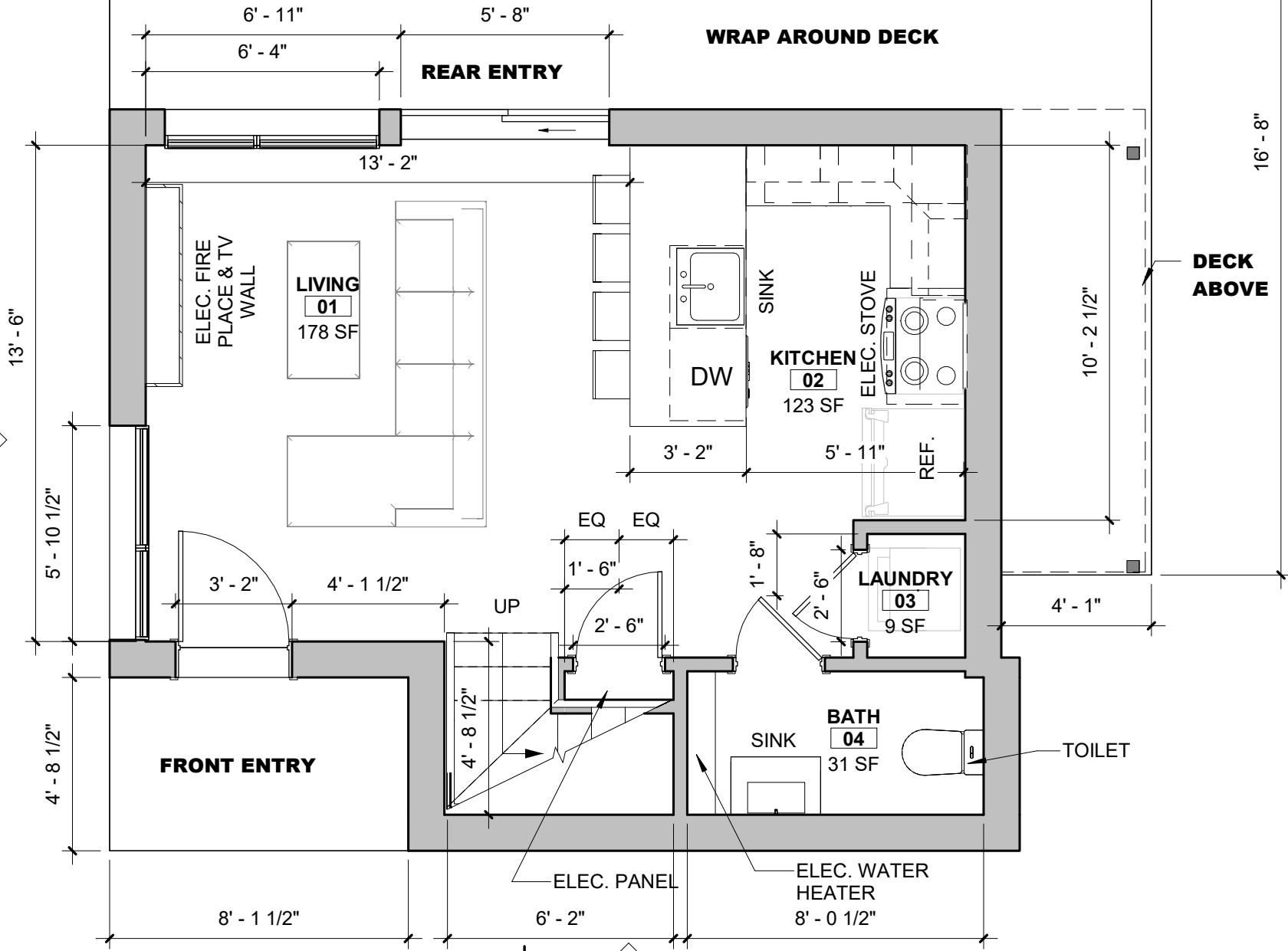


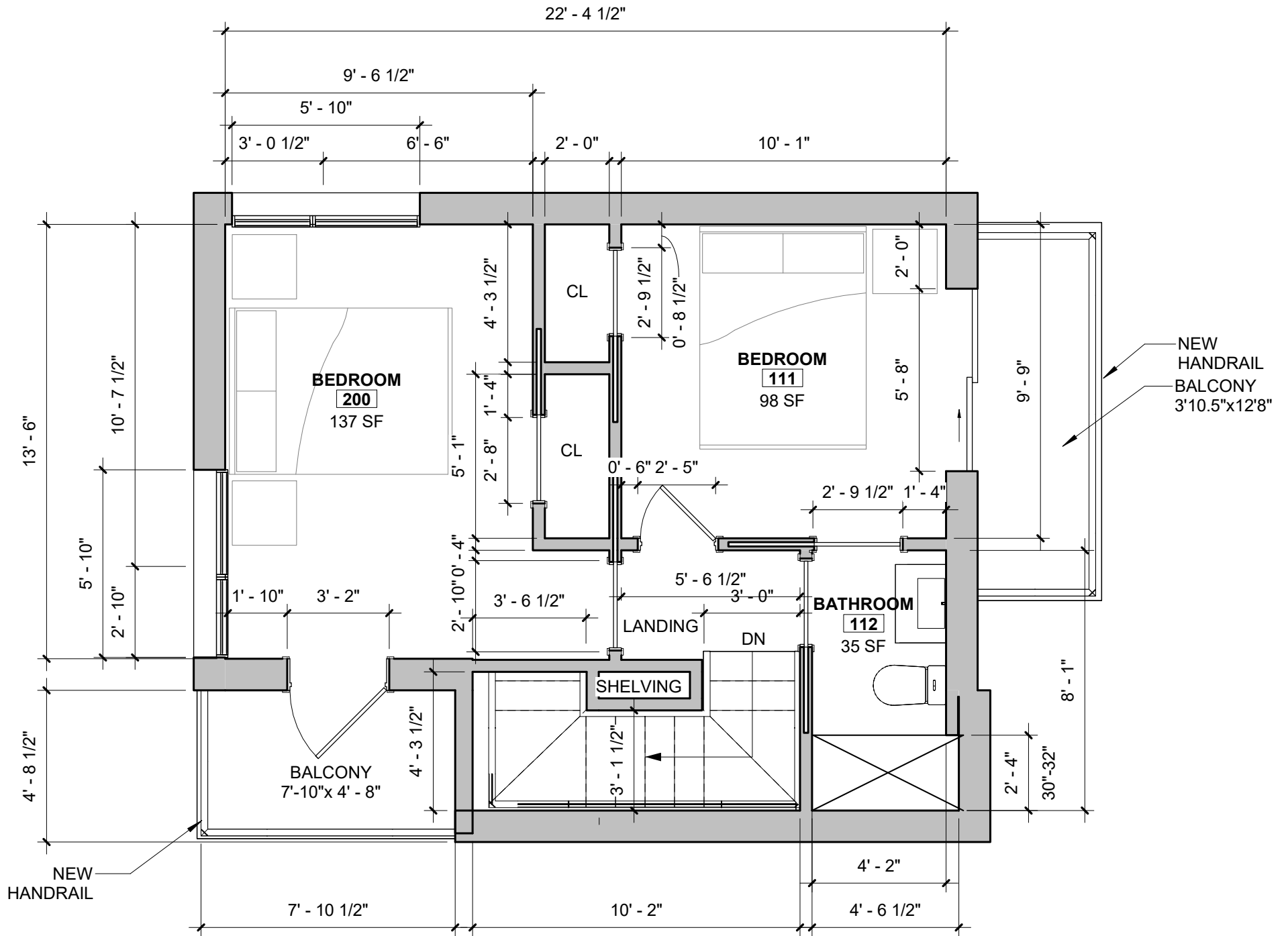
The Sustained Living ADU is designed for panelized or hybrid prefabrication strategies. The wall assemblies can be factory-built to improve quality control, reduce waste, and accelerate site installation. The straightforward structural grid supports modular thinking without sacrificing architectural character.

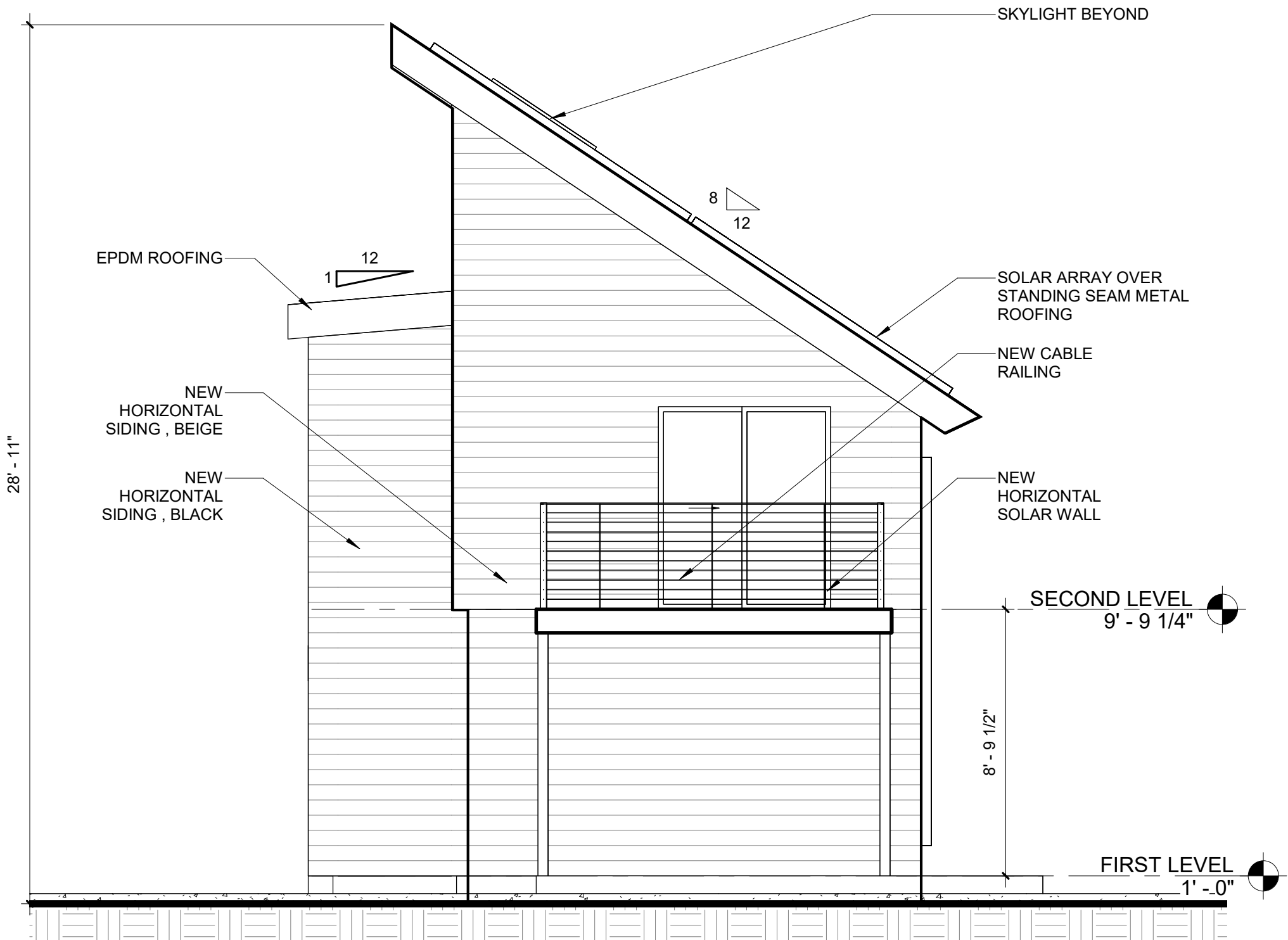
This approach enhances construction efficiency, reduces on-site labor time, and supports scalable implementation across Massachusetts communities.

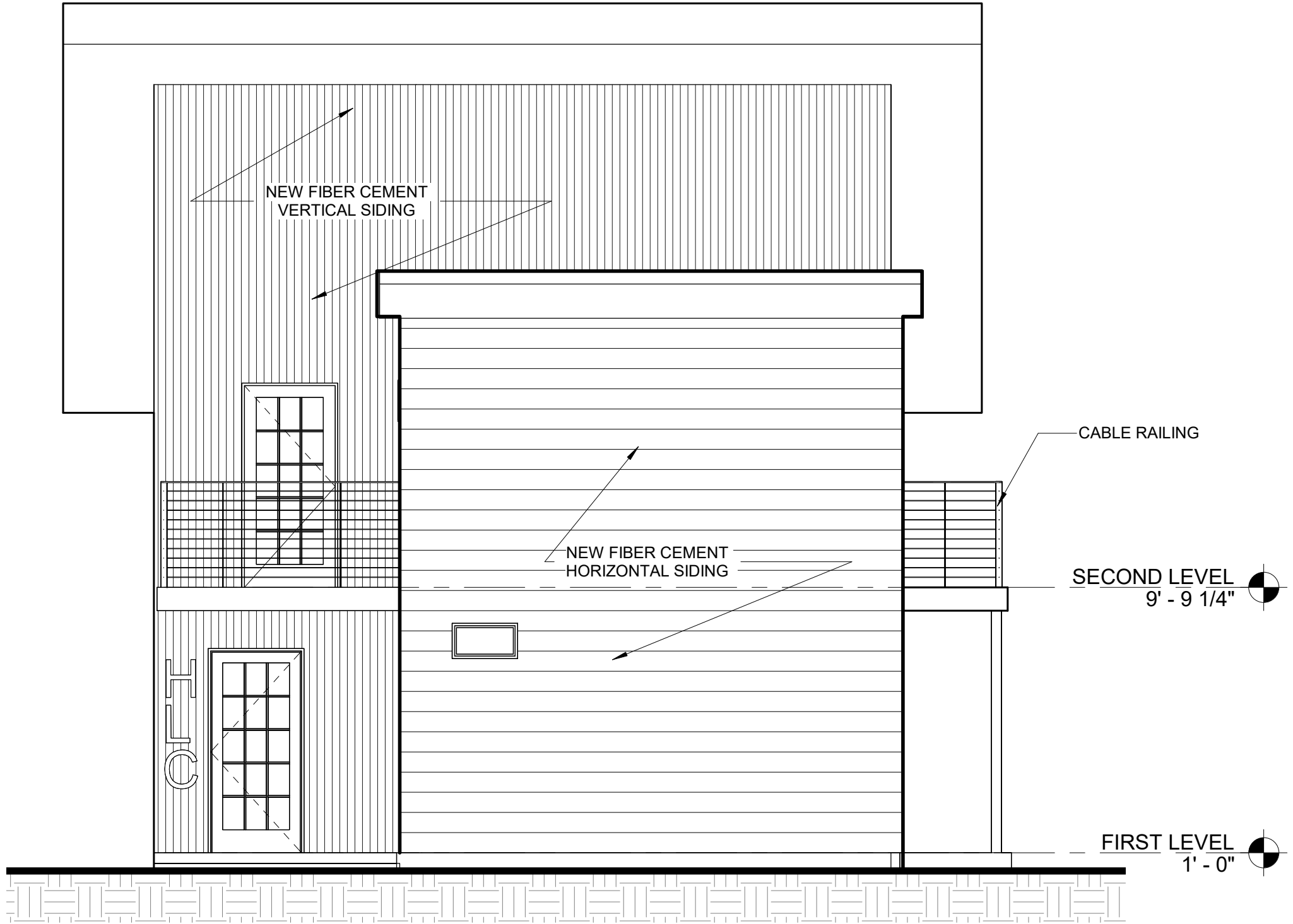


28' - 4"









NEW FIBER CEMENT
VERTICAL SIDING

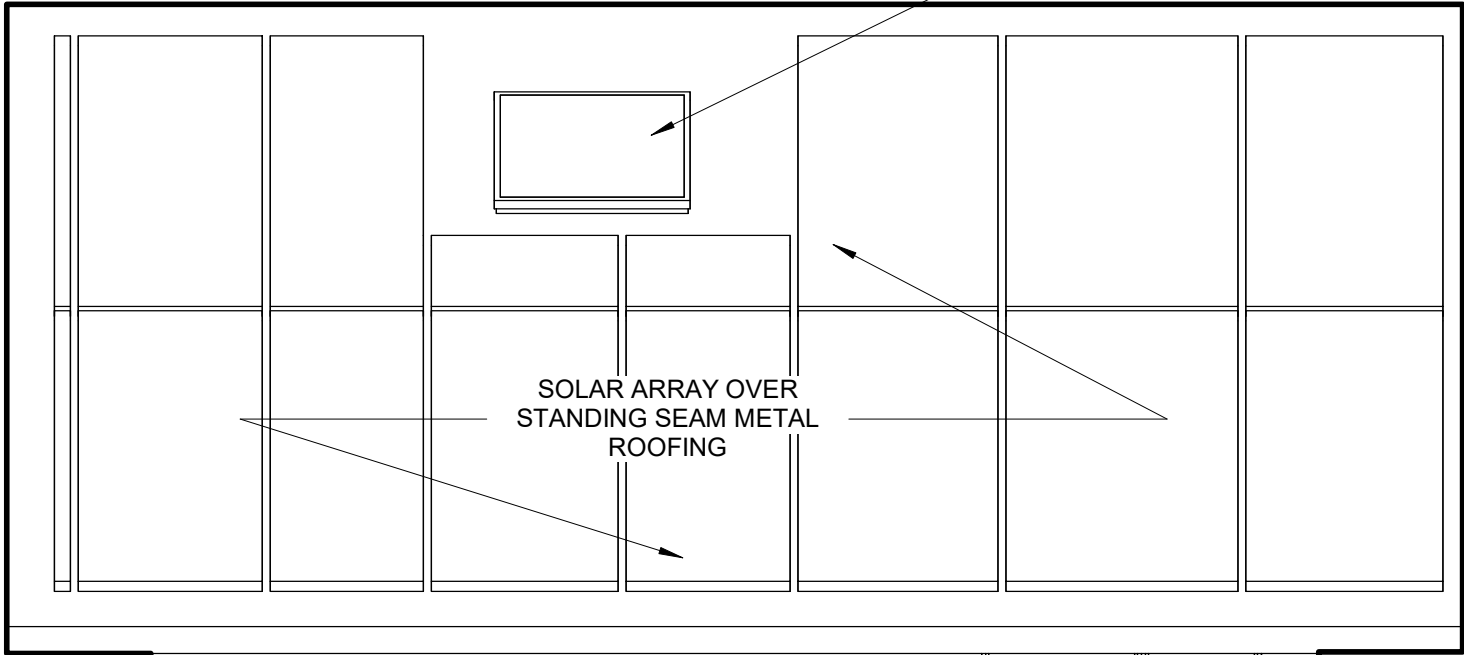
NEW FIBER CEMENT
HORIZONTAL SIDING

CABLE RAILING

SECOND LEVEL
9' - 9 1/4"

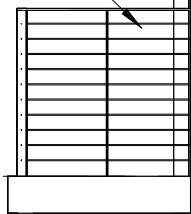
FIRST LEVEL
1' - 0"

SKYLIGHT BEYOND



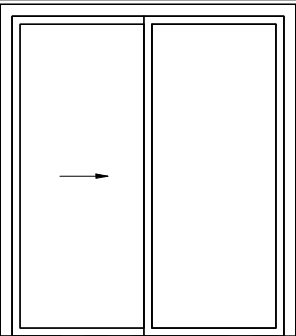
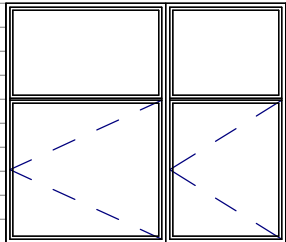
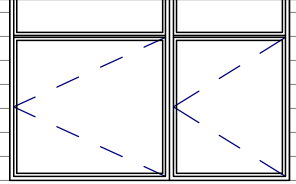
SOLAR ARRAY OVER
STANDING SEAM METAL
ROOFING

NEW HANDRAIL



NEW
HORIZONTAL
SOLAR WALL
OVER FIBER
CEMENT SIDING

NEW
HORIZONTAL
FIBER CEMENT
SIDING



SECOND LEVEL
9' - 9 1/4"

8' - 9 1/2"

FIRST LEVEL
1' - 0"



SOLAR ARRAY OVER
STANDING SEAM METAL
ROOFING

NEW VERTICAL
SIDING, LIGHT
GRAY

NEW
HORIZONTAL
SOLAR WALL

SKYLIGHT BEYOND

EPDM ROOFING

NEW HANDRAIL

SECOND LEVEL
BLACK TRIM - 9 1/4"
BOARD

NEW
HORIZONTAL
SIDING , BLACK

FIRST LEVEL
1' - 0"

