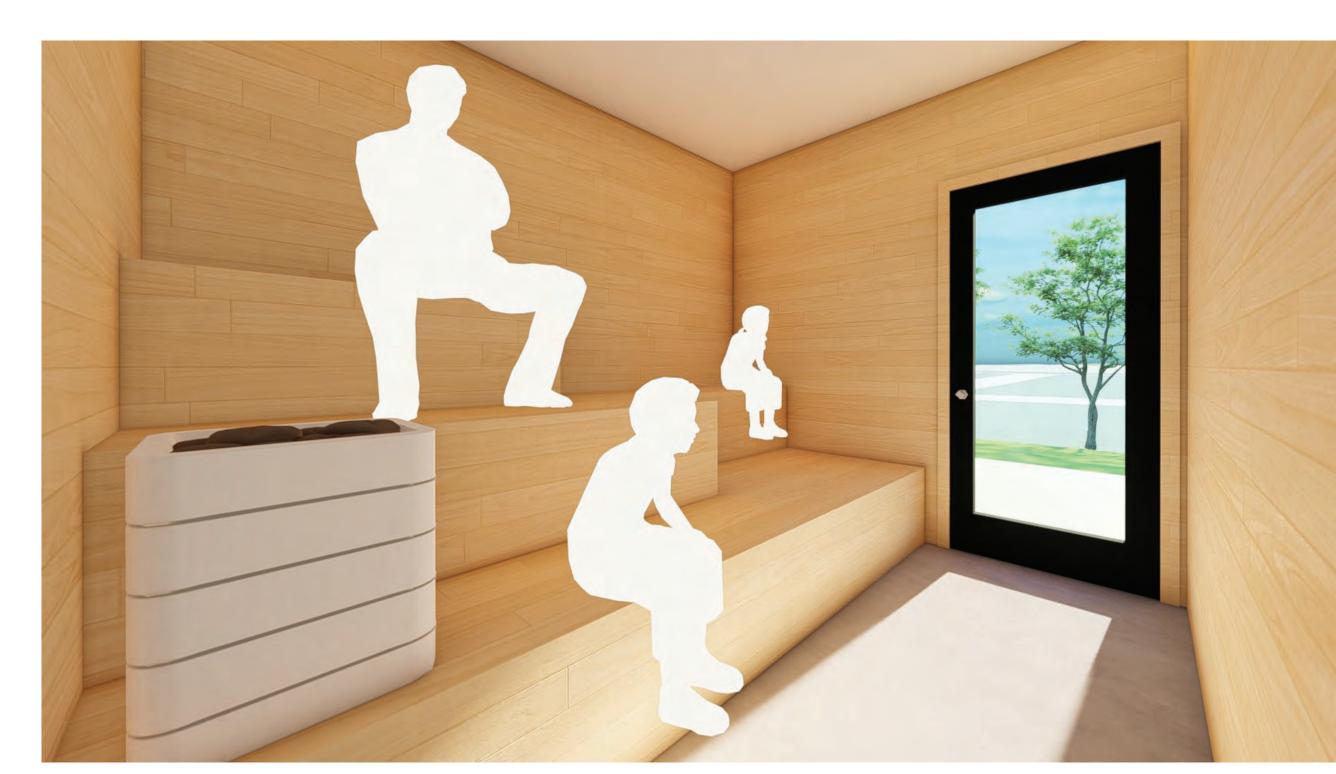


EXTERIOR ELEVATIONS 3/16" - 1'-0"







WEST

SITE LOCATION

were set.

UNIFYING IDEA

residential single-family homes.

Scandinavian Countries.

and healthier living environments.

to inform better overall design solutions.

POST OCCUPANCY GOALS

Scandinavian and midwestern U.S. residential architecture

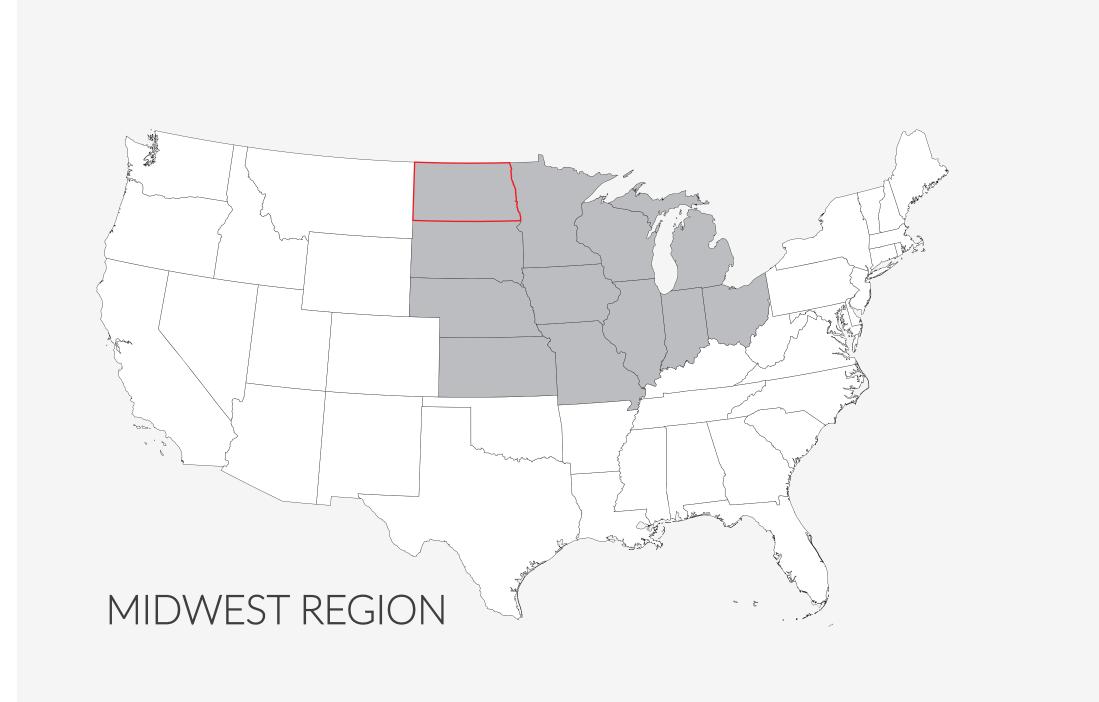
Being theoretical, it is unknown if the solutions and ideas

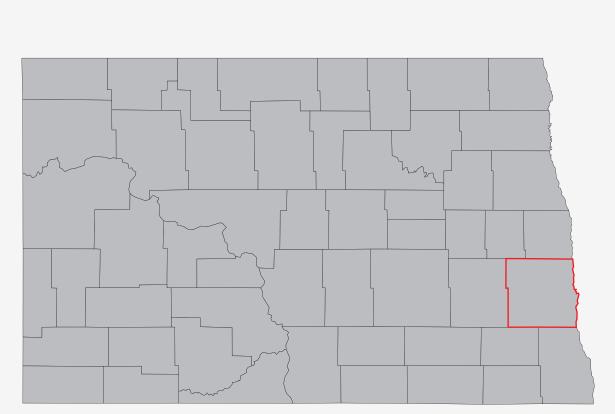
I firmly believe that the implementation of these researched

and chosen methods will ultimately achieve the goals that

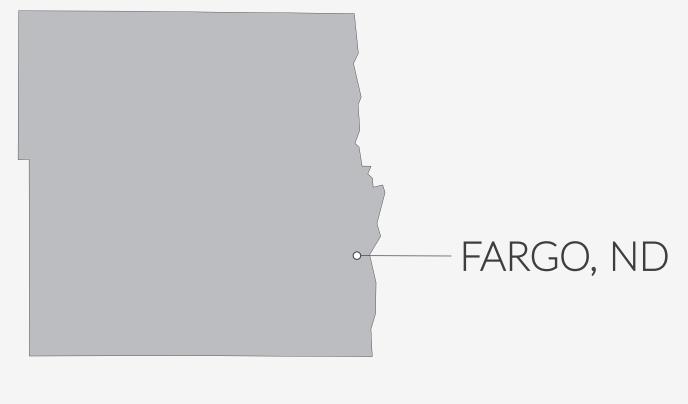
implemented within the project will positively affect

occupants in the intended ways. Although unknown,

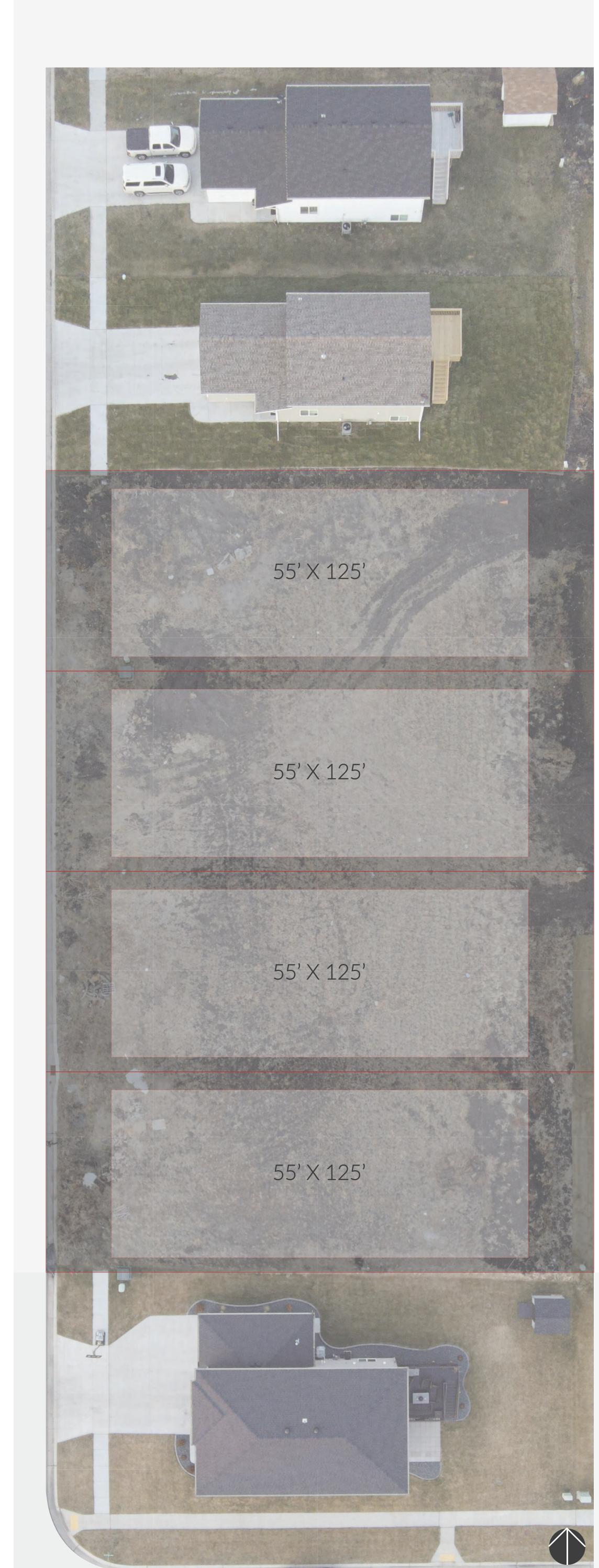


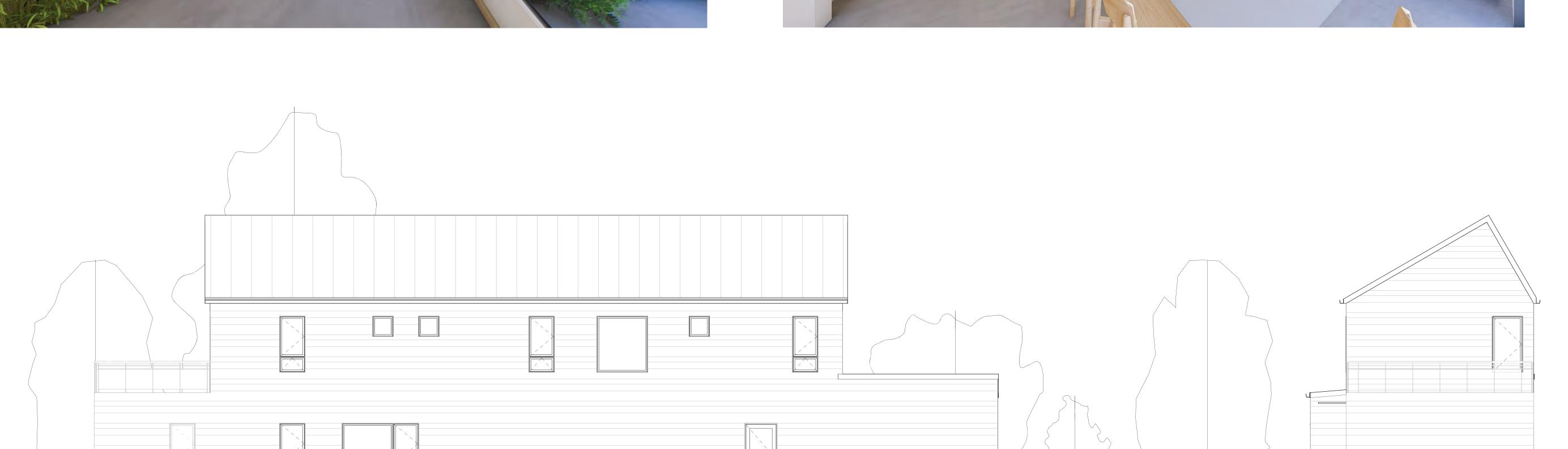


NORTH DAKOTA



CASS COUNTY, ND





WOOD TRUSSES

NORTH

SOLAR READY STANDING SEAM METAL ROOF

- 3 BEDROOM 2 BATHROOM ARRANGEMENT

PREFABRICATED WALL PANELS

SAUNA W/ ATTACHED WET BATH

HYDRONIC HEATED SLAB ON GRADE

- INTEGRATION OF EXTERIOR GREENERY

- 11 7/8" TJI FLOOR JOISTS

- LP SMARTSIDE LAP SIDING



EAST

AFFORDABILITY REDUCED SQUARE FOOTAGE SPATIAL EFFICIENCIES ADDITION POTENTIAL CONSTRUCTION METHODS



SUSTAINABILITY SOUTHERN EXPOSURE CROSS VENTILATION NATURAL LIGHT



WELLNESS INTERIOR & EXTERIOR GREENERY PRIVATE SAUNA



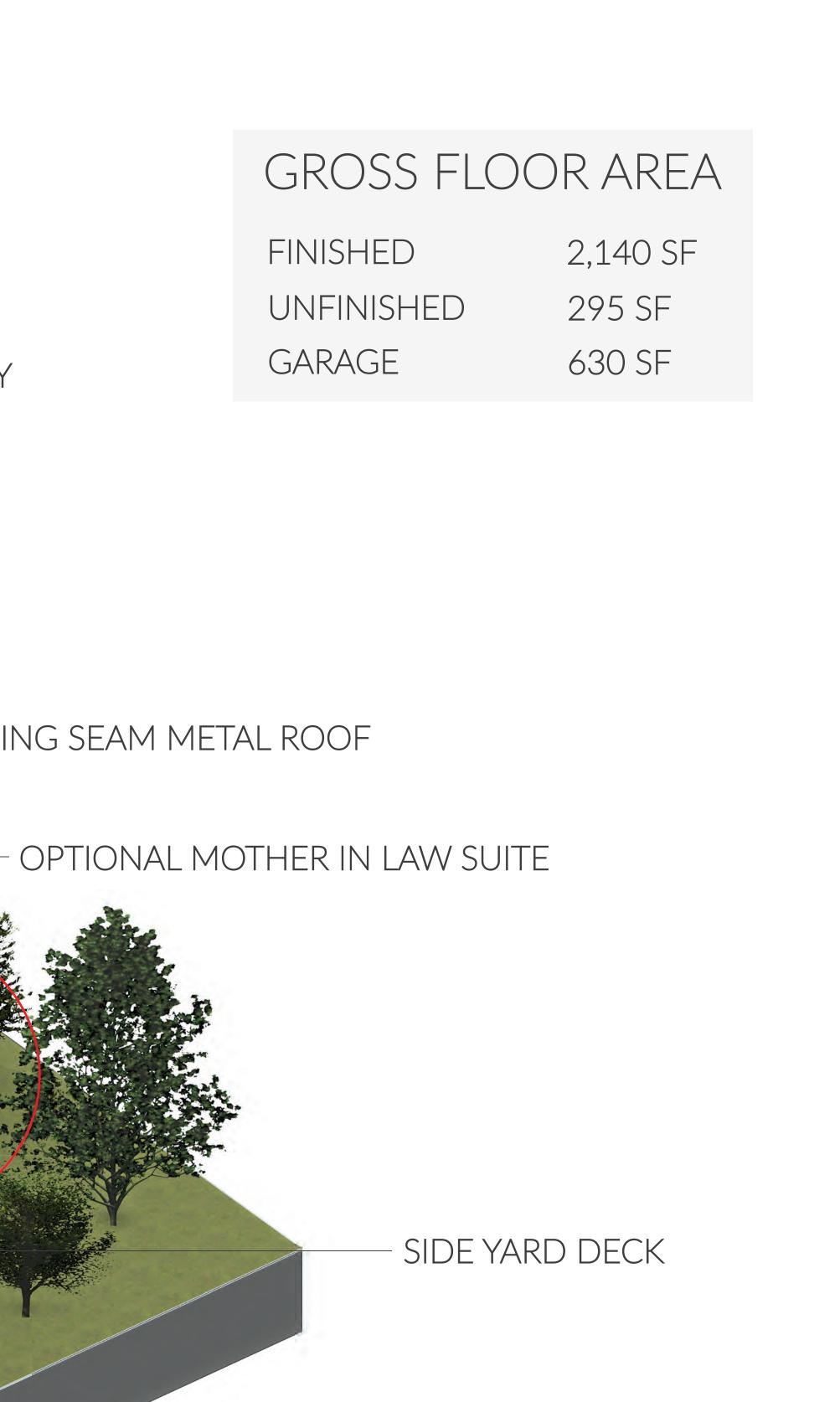
— STANDING SEAM METAL ROOF

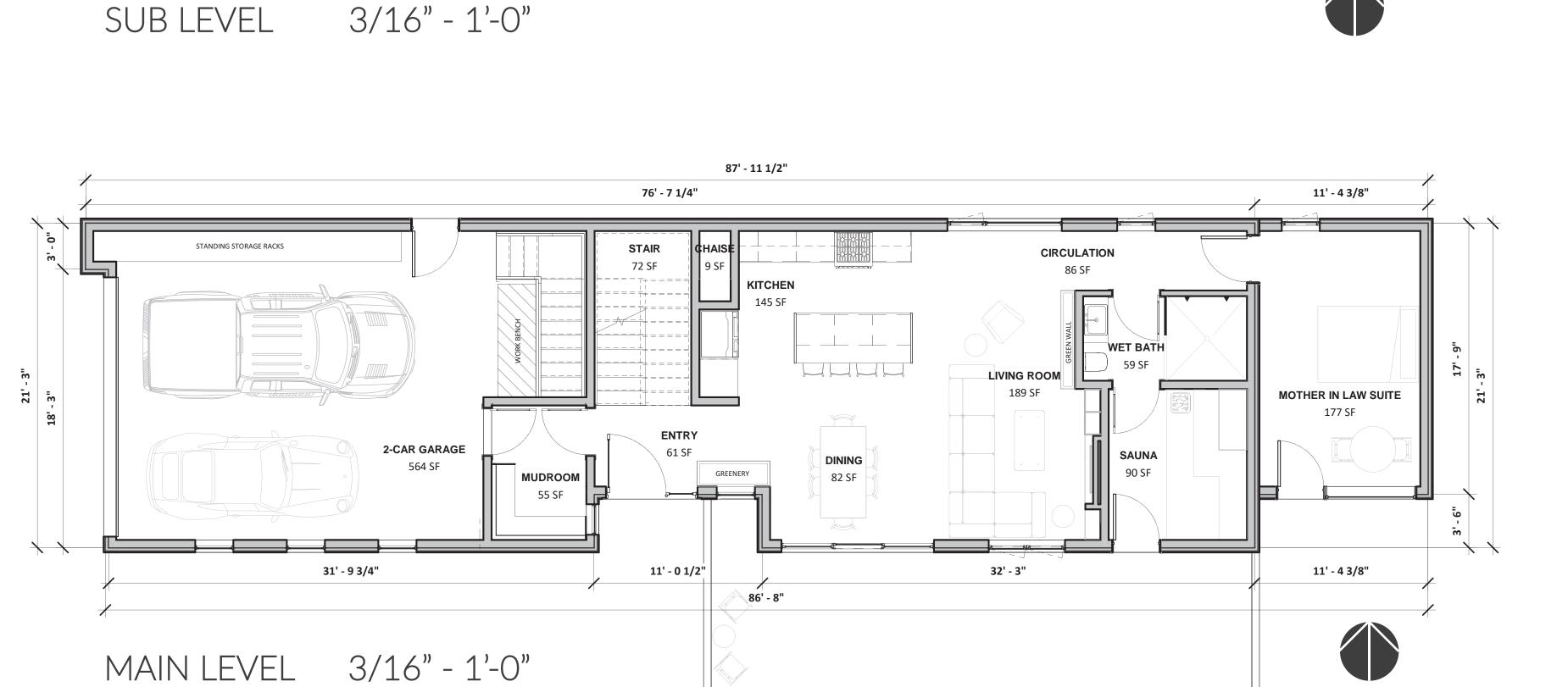
LOW VOC MATERIALS

FINISHED

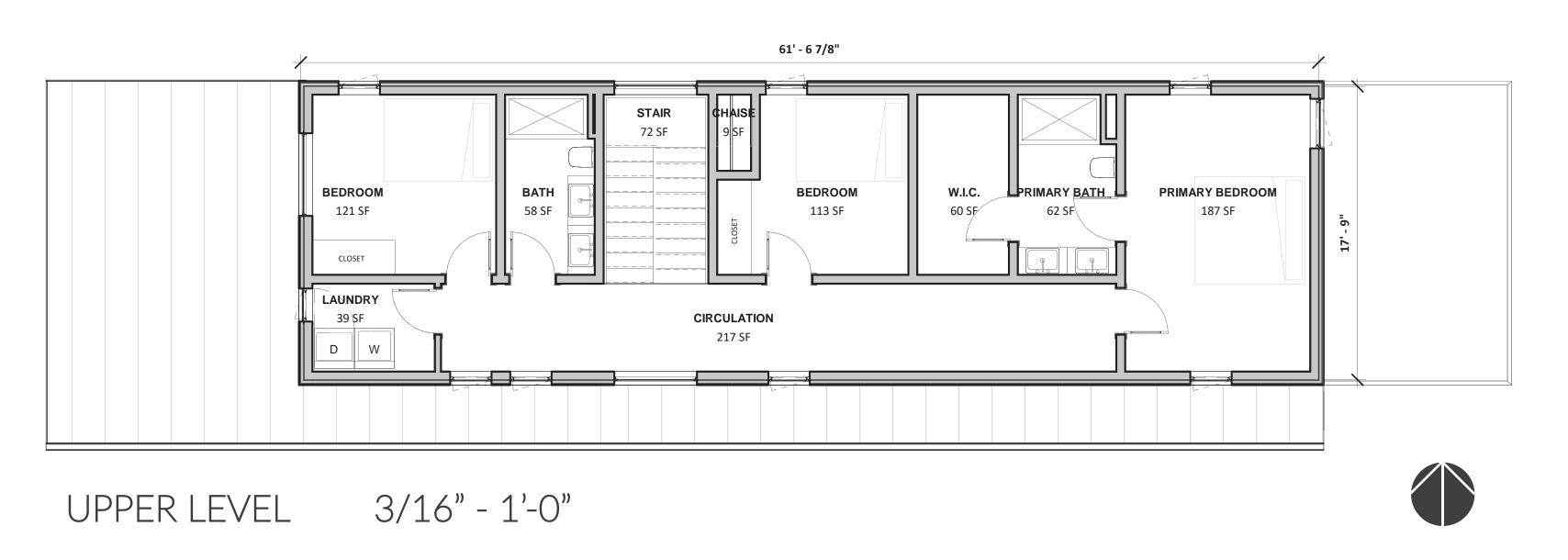
GARAGE

UNFINISHED





SOUTH



PREMISE FOR INVESTIGATION

The United States is known for its cheap and quickly built "cookie cutter" neighborhoods. The Fargo/Moorhead area is contractor driven providing affordable, but cheaply built and inefficient homes that do nothing for the wellbeing of it's occupants or community. Present day homeowners are buying into homes that are built for profit. The American dream of owning your own home has been skewed and focuses more on the size of the house than the quality of construction and interior. Houses are on average 3,000 square feet and up.

This perspective brought me to question why these types of homes have been so readily accepted with the harsh climate we live in. Varying climate extremes and quality of life midwestern's endure can be compared similarly with that of scandinavian countries such as Finland, Denmark, and Norway. In these countries, homes are smaller, more efficiently built, and better serve their occupants. The World Happiness Report ranks all scandinavian countries in the top five every year while the United States never manages to get above 15th. While the WHR is more based around social and political analyis of countries, the 2020 report focuses on Scandinavian success over the years. It's important to note that the research findings within the WHR had nothing to do with architecture or the built environment. However, these findings presented a clear understanding of what midwestern housing can learn from it.

The built environment in scandinavian countries is highly shaped by it's inhabitants lifestyle and culture. It would be difficult to lean on midwestern inhabitants changing their lifestyle to adopt better building environments. Bringing us to the overarching unifying idea.

How can the built environment in which you live, influence your lifestyle and way of life?



\$300,000 BUDGET

PARCEL COST

HOUSE SQUARE FOOTAGE 2,140 SF GARAGE SQUARE FOOTAGE 630 SF \$105/SF FINISHED FLOOR AREA \$50/SF CONSTRUCTED FLOOR AREA x \$224,700 @ \$105/SF TOTAL GARAGE COST: TOTAL HOUSE COST: \$31,500 @ \$50/SF

TOTAL PROJECT COST

\$35,000