a sustainable classroom for a mobile new orleans design high school



learning

NOmod's spatial arrangement is designed to offer increased flexibility for user-defined function and increase academic performance

- **01_**Polygal walls fill the classroom space with daylight without distractions from outside the classroor
- 02 NOmod features adaptable spaces for breakout sessions, computer work, and pin-up work for the Priestley design students
- **03**_Built-in furniture is designed for maximum function, serving as storage space, chalkboard, computer stations, and a teacher's desk **04_**NOmod's entry steps also serve as an outdoor classroom space

periormance

NOmod's robust materials and ample daylighting are designed to decrease energy demand in the hot and humid Louisiana climate

- **05_** Ductless AC is a 'quiet' energy efficient system
- **06**_ Advanced framing techniques (2x6's at 24" 0.C.) reduce labor costs while increasing the wall cavity for insulation, and increasing sound isolation
- 07 The classroom's North-South orientation and window placement supports passive heating and cooling. Glazing supports maximum daylight entry while retaining a highly insulated envelope
- **08_**Windows and Polygal are rated to withstand hurricane winds



naterials NOmod's materials are locally sourced and support healthy indoor air quality, sustainability, durability, and a low project budget

- **09_**Salvaged hardwood flooring from flooded Katrina homes finds new life in the NOmod.
- **10_**Galvalume roofing and siding made at the Morgan factory reflects
- heat, and provides a recyclable building skin

 11_Lumber used for studs and sheathing is borate treated southern
 yellow pine taken from a lumber yard within five miles of the Morgan Modular Building factory
- 12_Spray in foam icynene in the roof and under the floor and cellulose made of recycled newspaper in the walls
- 13_Wall surfaces include locally produced baggase pin up boards made from sugar cane byproducts 14_The prefabricated storage wall is made of a high density fiberboard
- 15_Corrugated Cardboard surfacing covers the ceiling and the upper
- 16_Healthy indoor air quality from highly efficient ventilation systems,

no-voc paints, adhesives and sealants, and non-toxic materials.

part of the wall to absorb sound

collaboration

In the wake of Hurricane Katrina, schools in New Orleans suffered from damaged buildings, shifting student and teacher populations, and the complete collapse of critical civic infrastructure. The Priestley School of Architecture and Construction was founded as a response to this broken context, with a new charter high school program dedicated to architectural inquiry and improvement of the built environment.

Together, Priestley students along with a team of local university architecture students and Morgan Buildings, a modular manufacturer, designed NOmod (New Orleans Modular). Although NOmod draws its inspiration from the challenges of a post-disaster landscape and the temperature extremes of the hot and humid South, this structure addresses many of the universal issues that face global communities today, including shifting demographics and landscapes, flexibility and the need for adaptable learning spaces, community development and regional connections, and the exigencies of social, economic and environmental sustainability.

high density fiberboard / cabinet school location polygal sugarcane tackable sound b cardboard wall surface cellulose insulation

 \blacksquare = 20 students

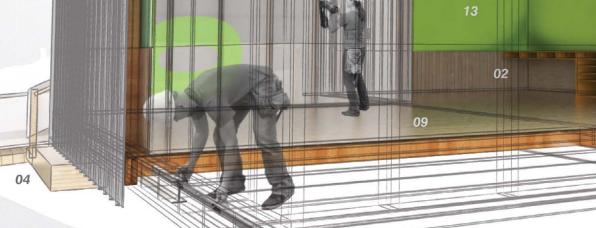
Map of post-Katrina locations for Priestley High School of Architecture and Construction

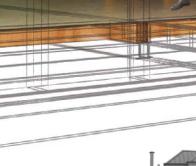
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2009-2010 location

2008-2009 location

2007-2008 location ********

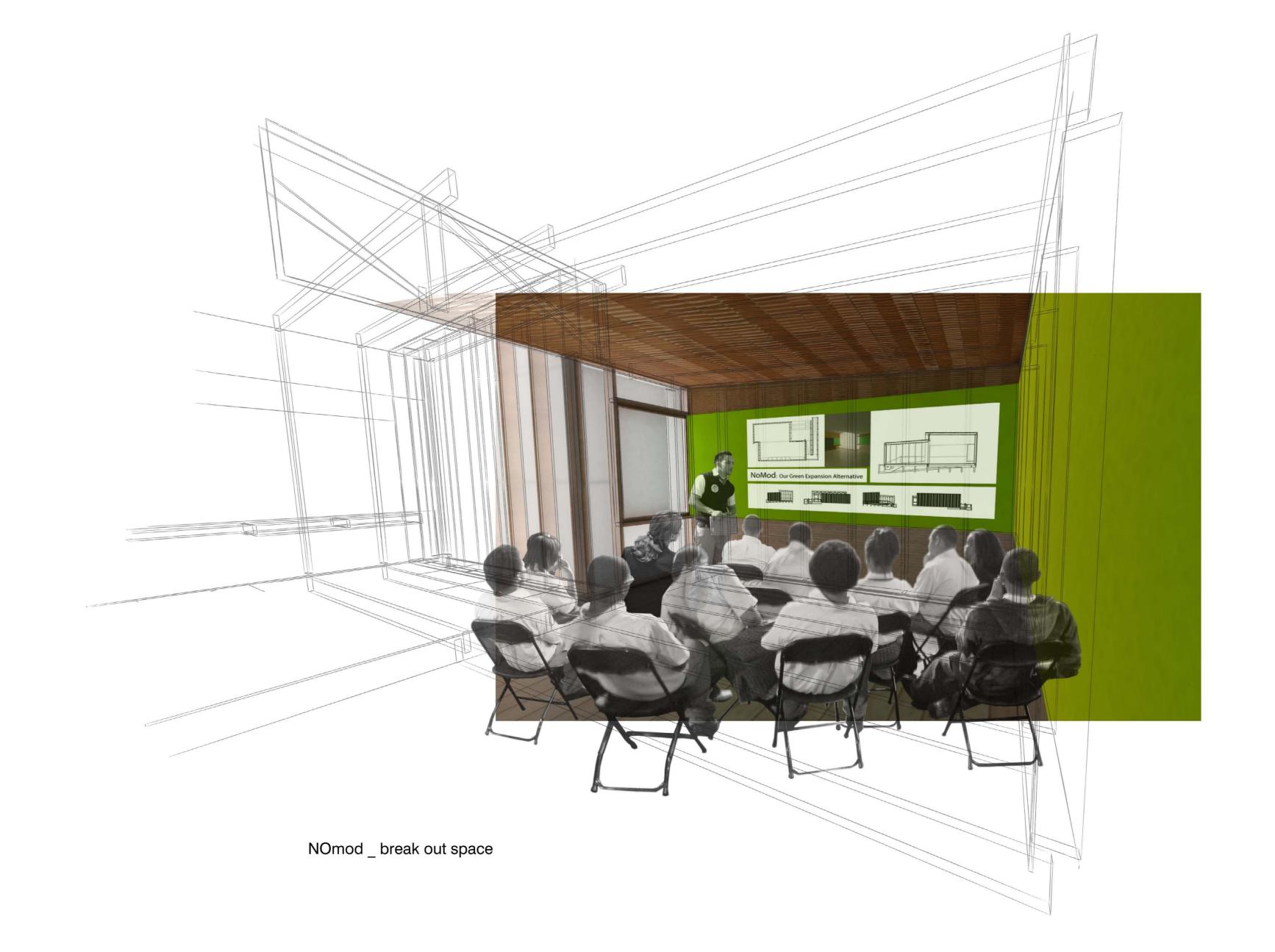


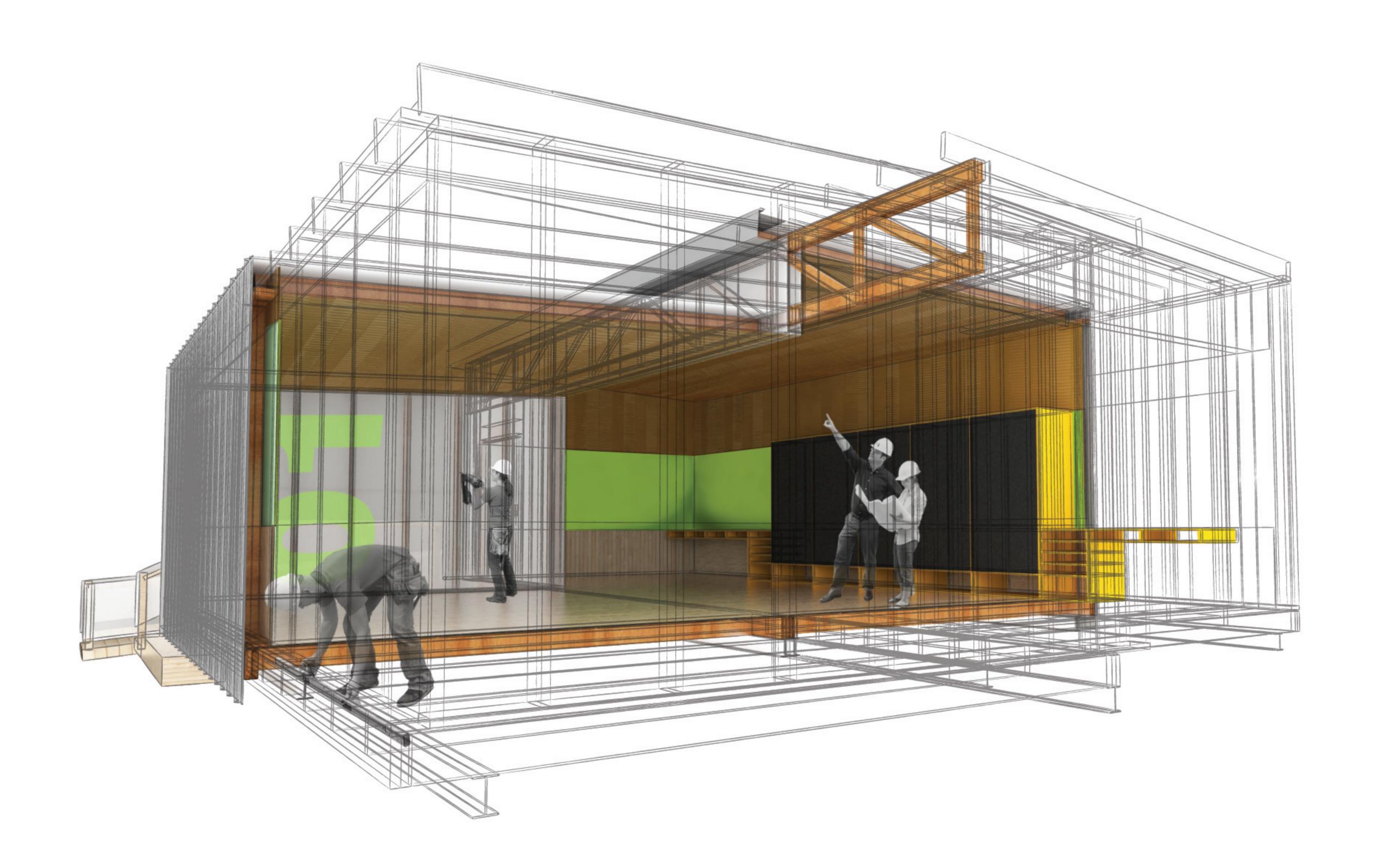


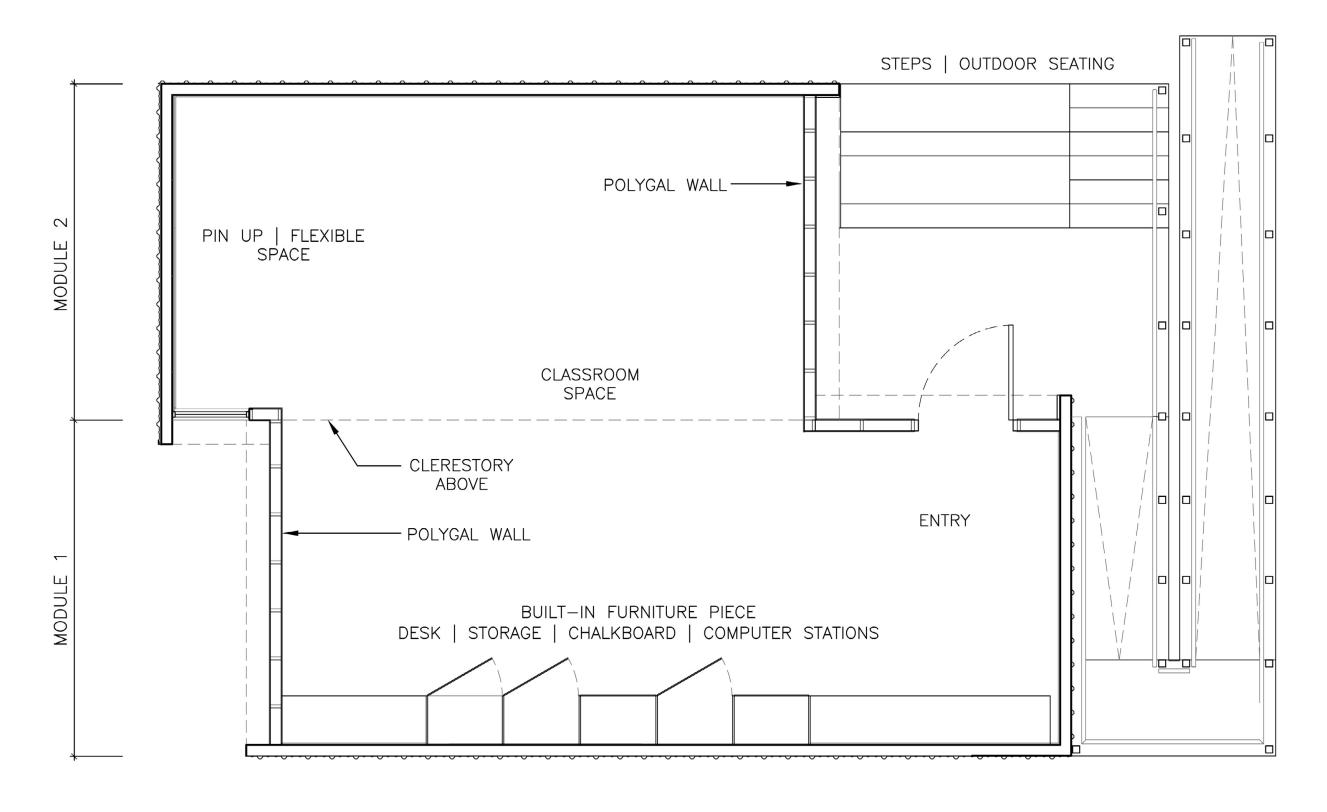




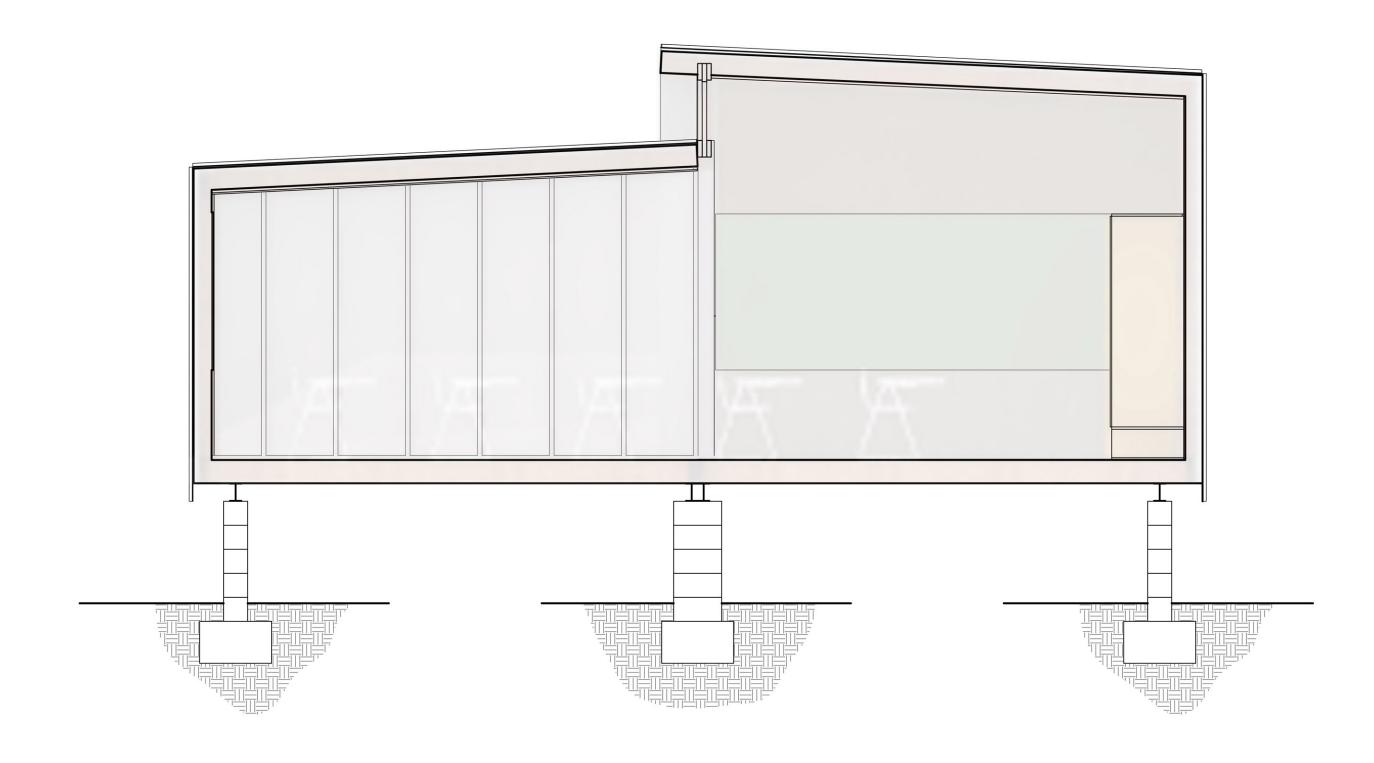


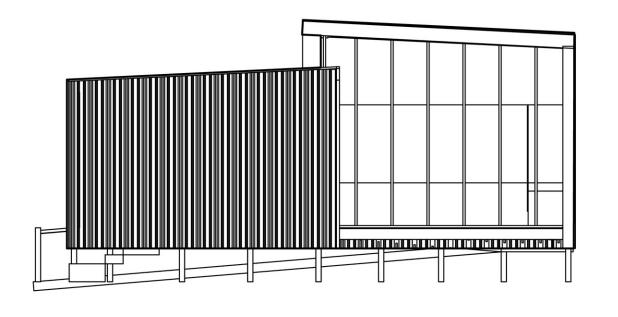


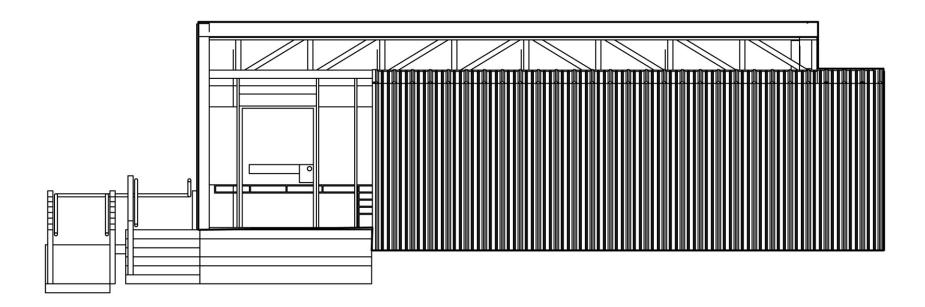


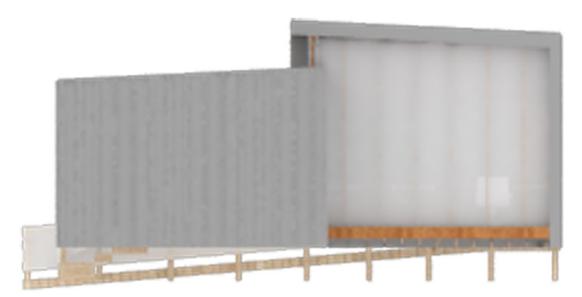


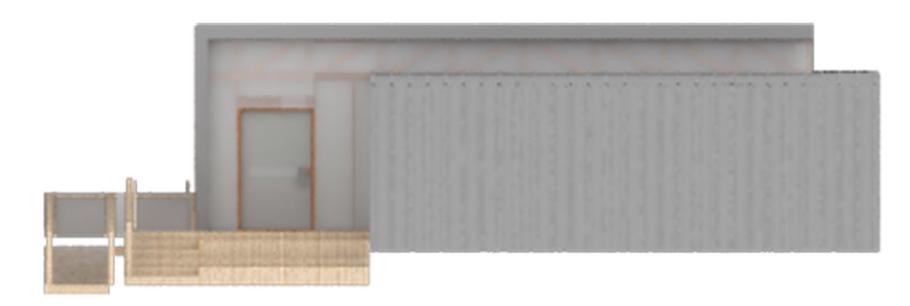








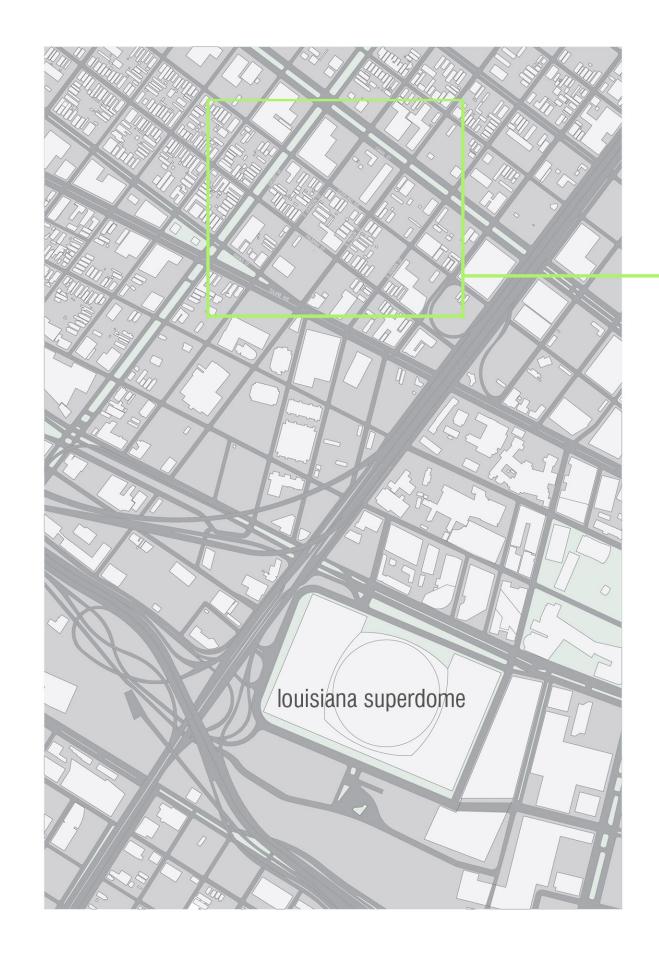






1 NOMOD CLASS

NOMOD CLASSROOM ELEVATION



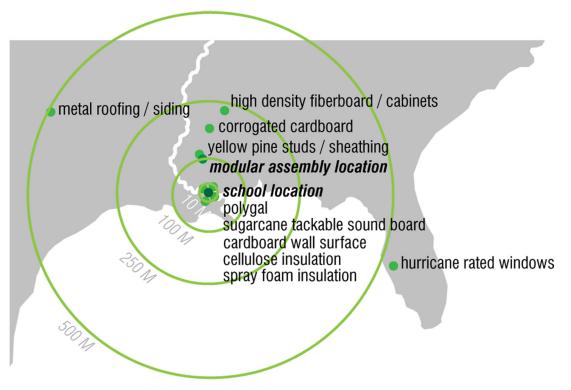


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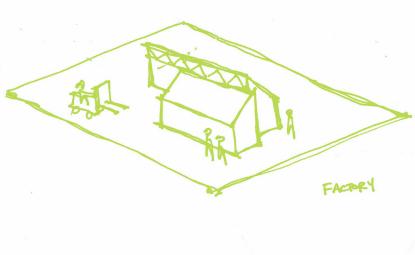


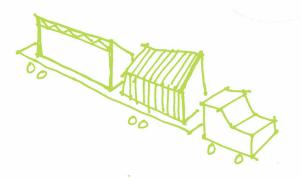












TRANSPORT



SITE