

09.26.2018

**2018 ANNUAL
RMA CONFERENCE**

**Adding
10,000sf
in 3 Months**

CASEY SMITH

Architect, Principal

hord | coplan | macht



JENNIFER WOOD

Director of Campus Services



LOYOLA
UNIVERSITY MARYLAND



INTEGRATED DESIGN PRACTICE

Architecture
Landscape Architecture
Planning
Interior Design
Graphic Design
Sustainable Design

NATIONAL PRACTICE/ LOCAL EXPERTISE

+40 Years in Practice

+260 Professionals & Staff

+50 Studio Professionals



Adams State College

Auraria Higher Education
Center

Bowie State University

Casper College

Colorado School of Mines

Colorado State University,
Fort Collins

Colorado State University,
Pueblo

Coppin State University

Delaware State University

Eastern Wyoming College

Eckerd College

Fort Lewis College

Frostburg State University

George Washington
University

Georgetown University

Gettysburg College

Goucher College

Johns Hopkins University

Johnson & Wales University

La Salle University

Loyola University Maryland

Liberty University

Maryland Institute College
of Art

Maryland University of
Integrative Health

Metropolitan State
University of Denver

Morgan State University

Pennsylvania State
University

Salisbury University

St. Mary's College

State University of New
York Purchase College

Stevenson University

Susquehanna University

Texas A&M University at
San Antonio

Towson University

United State Air Force
Academy

United States Army War
College

United States Naval
Academy

University of Baltimore

University of Colorado,
Colorado Springs

University of Colorado,
Denver

University of Denver

University of Maryland
Baltimore

University of Maryland
Baltimore County

University of Maryland
Eastern Shore

University of Massachusetts
Dartmouth

University of Northern
Colorado

University of Pennsylvania

University of Virginia

University of Virginia
Foundation

Washington Adventist
University

Washington College

Western State Colorado
University



WHY

utilize modular construction?

WHAT

parameters should be
considered when designing a
modular building?

HOW

did Loyola University Maryland
construct its new bookstore in
one summer break?

A black and white photograph of a modern building with a large wooden staircase and a central inset box containing the word 'WHY'. The building features horizontal wooden siding and large glass windows. A wide, multi-level wooden staircase with metal railings leads up to the entrance. Several people are visible on the stairs and near the building. A sign on the building reads 'RESEARCH LEARNING'. A central inset box with a white border contains the word 'WHY' in large, bold, white capital letters. The background is filled with dense trees.

WHY

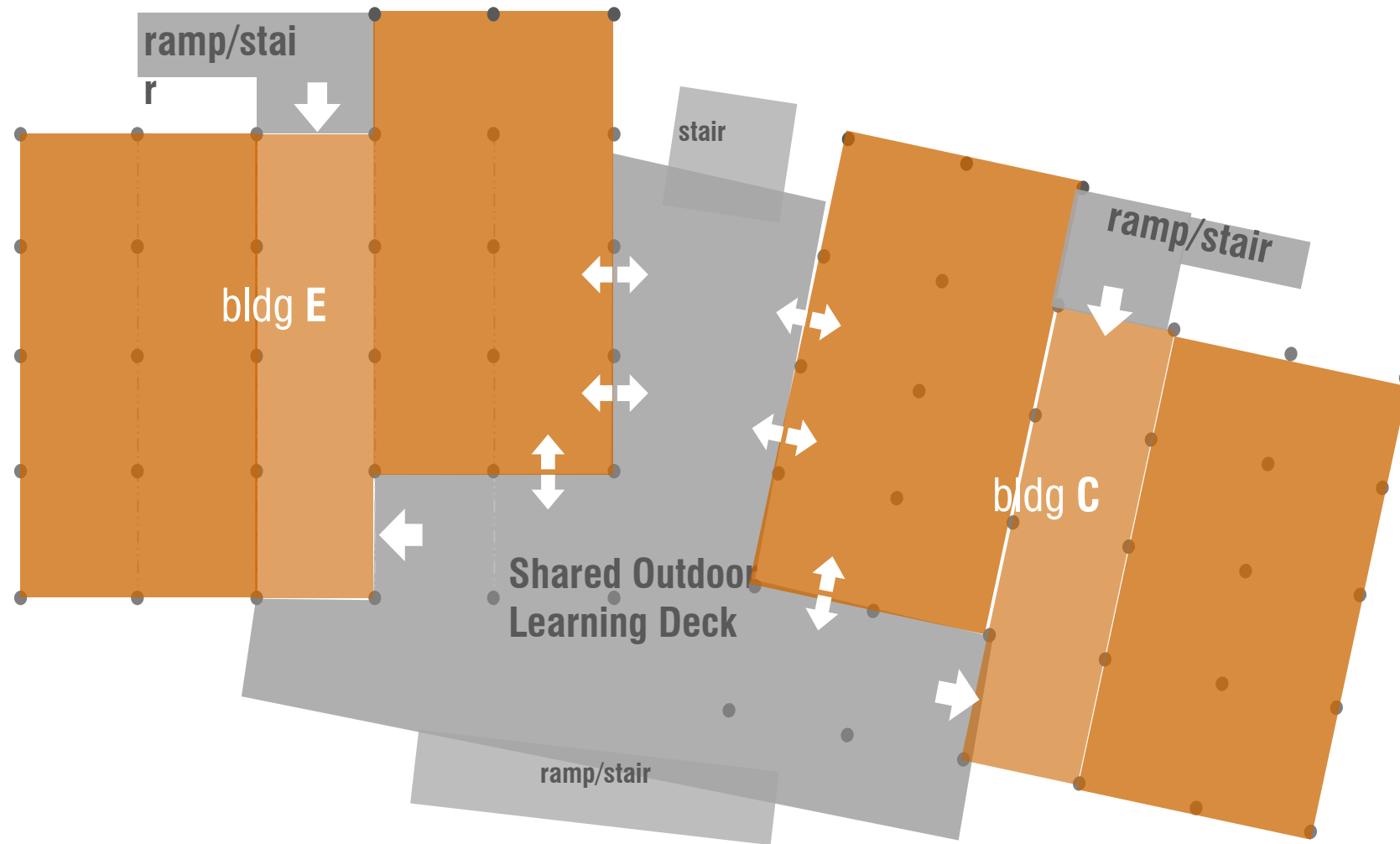
RESEARCH
LEARNING

LEARNING
STUDIO

MODULAR MYTHS NOT YOUR AVERAGE TRAILER



MODULAR FACTS CUSTOMIZATION



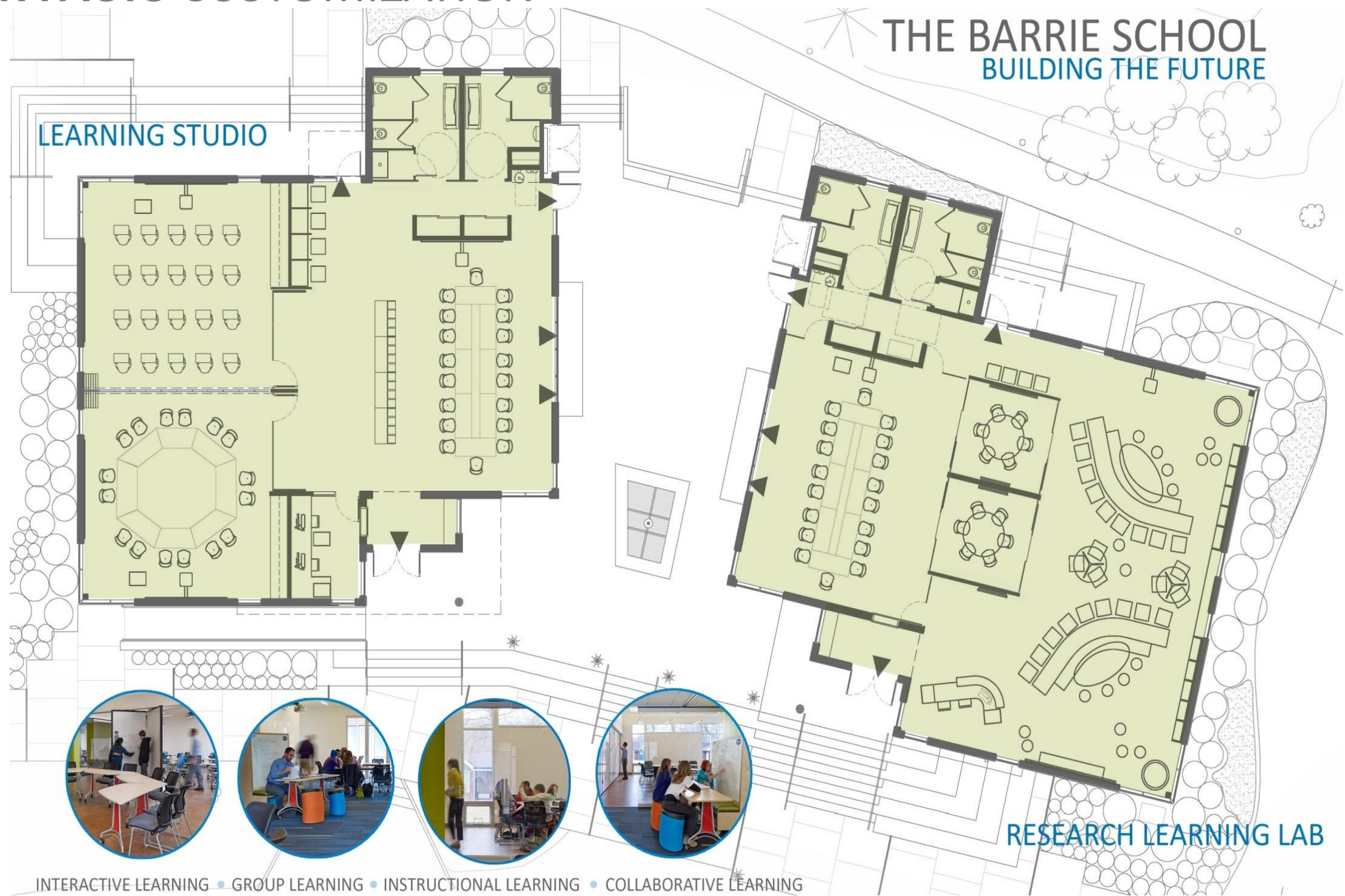
Design Possibilities

- Enhance relationships between buildings
- Create new outdoor learning space
- Embrace the elevation
 - raised decks for Outdoor learning
 - stairs & steps for gathering opportunities

MODULAR MYTHS CUSTOMIZED DESIGN



MODULAR FACTS CUSTOMIZATION

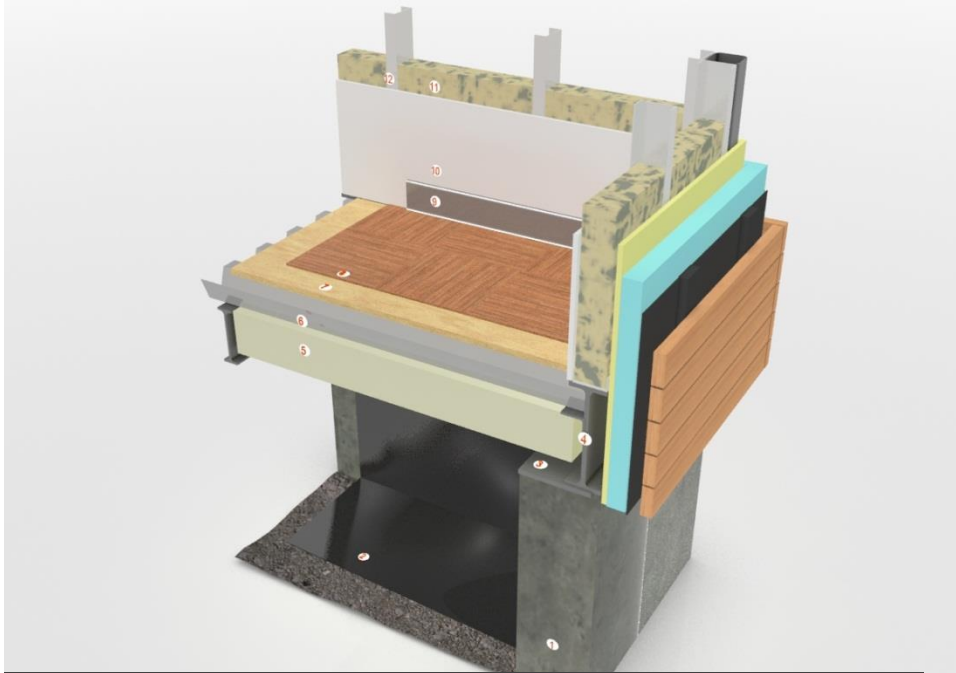


MODULAR MYTHS

AESTHETIC FLEXIBILITY



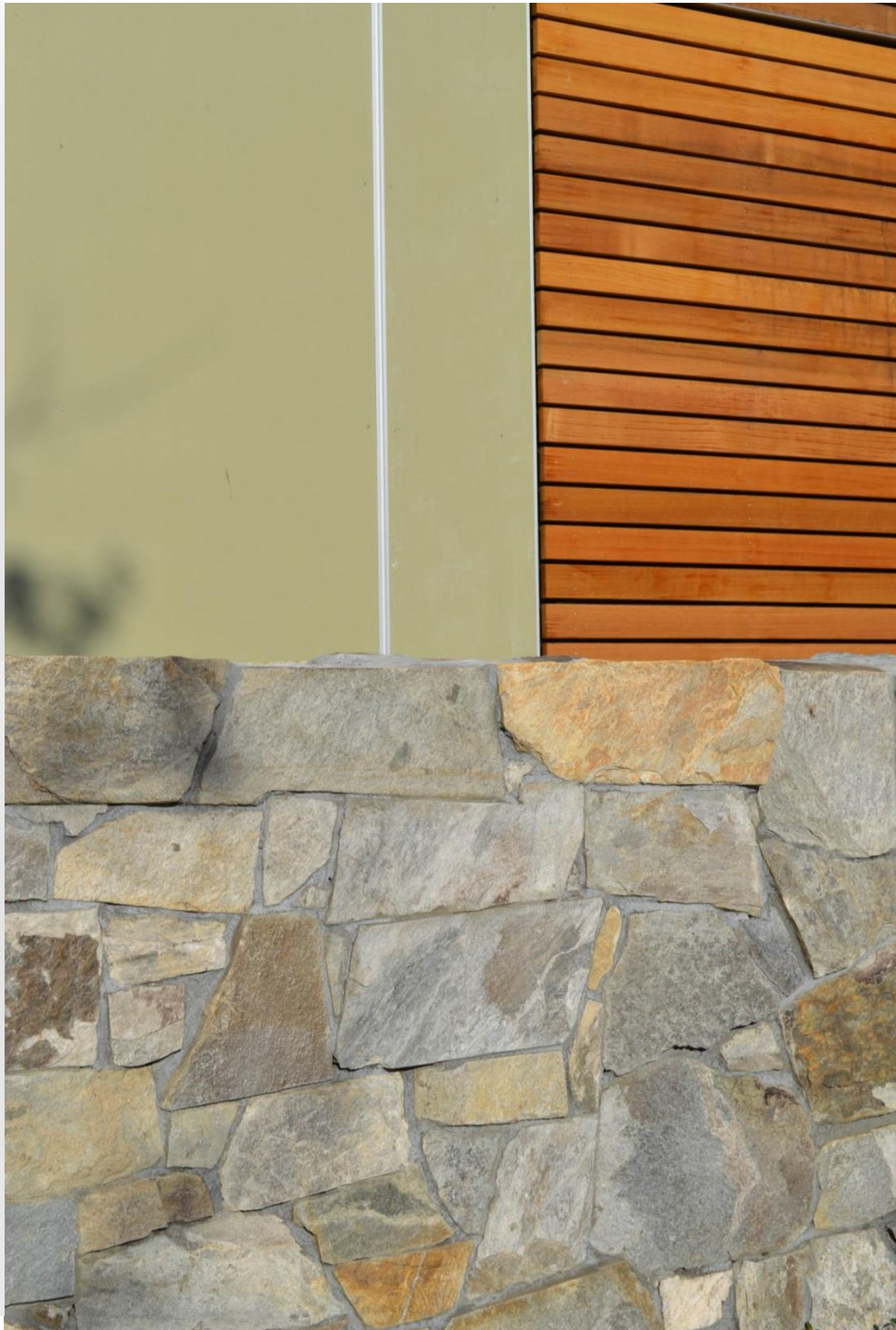
MODULAR MYTHS LESS EXPENSIVE



Barrie Pre-Fab



Traditional Modular



MODULAR FACTS ON-SITE SPEED



CONSTRUCTION_JUNE 27 2012



MODULAR FACTS ON-SITE SPEED



CONSTRUCTION_JULY 28 2012



MODULAR FACTS ON-SITE SPEED

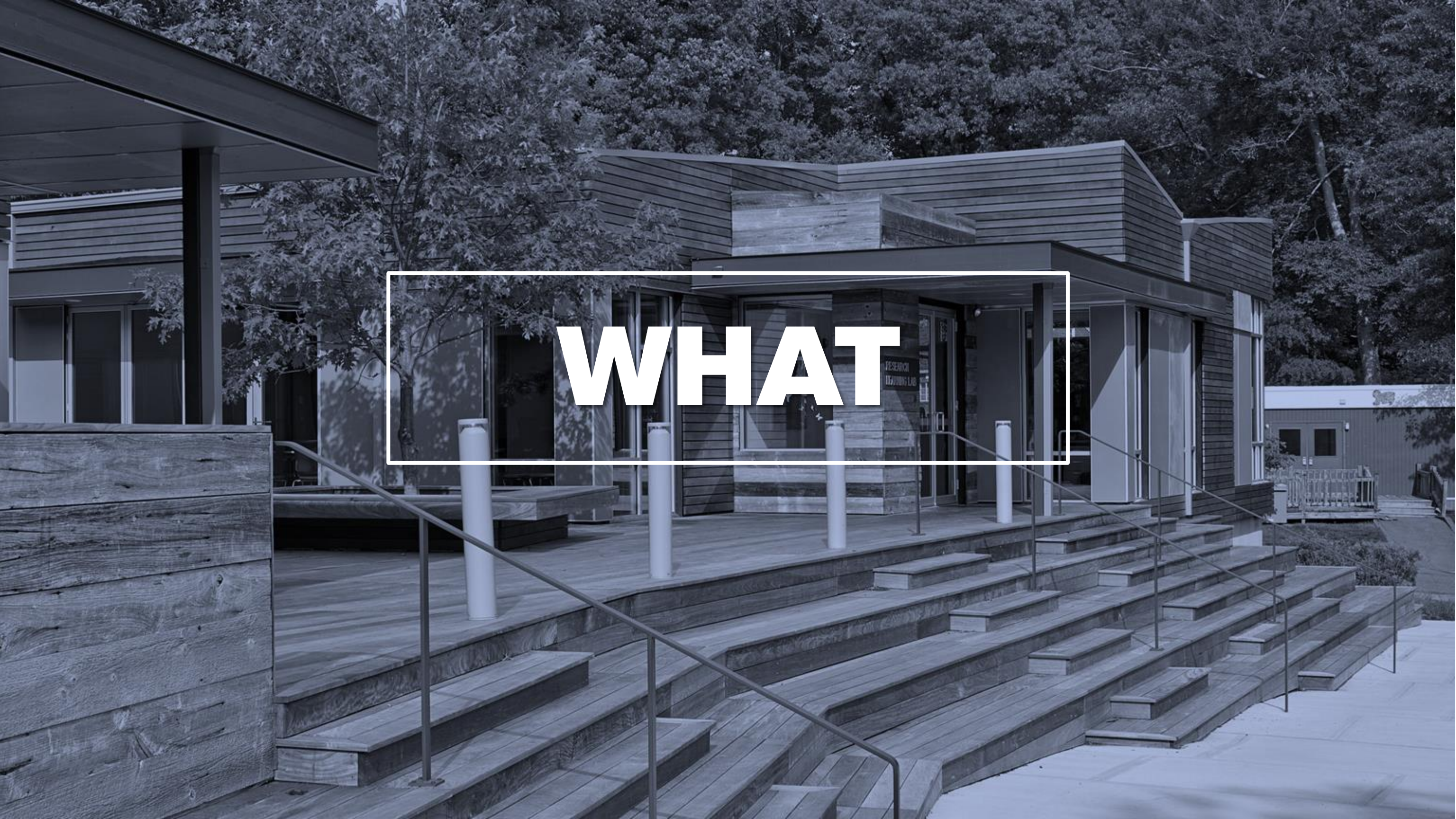


CONSTRUCTION_NOVEMBER 26 2012



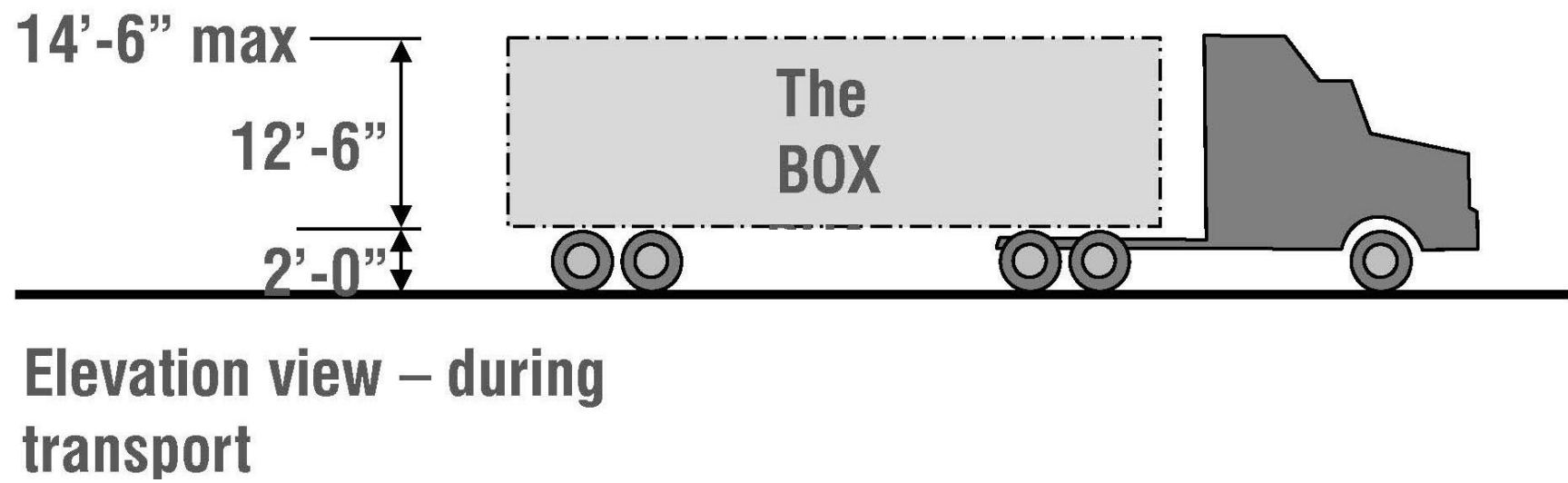
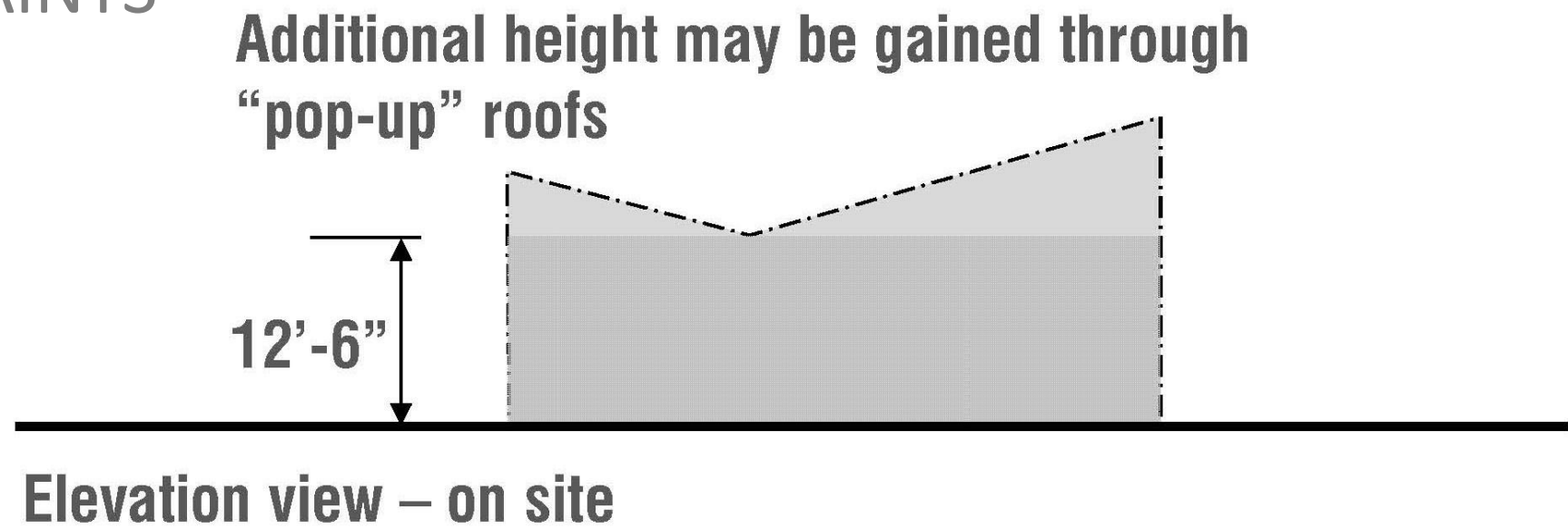
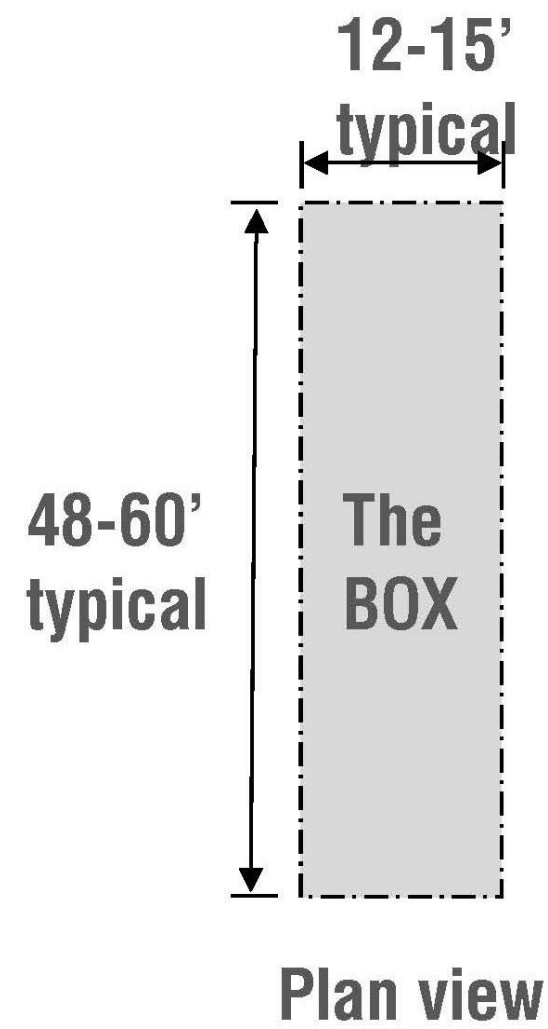
MODULAR FACTS ON-SITE SPEED



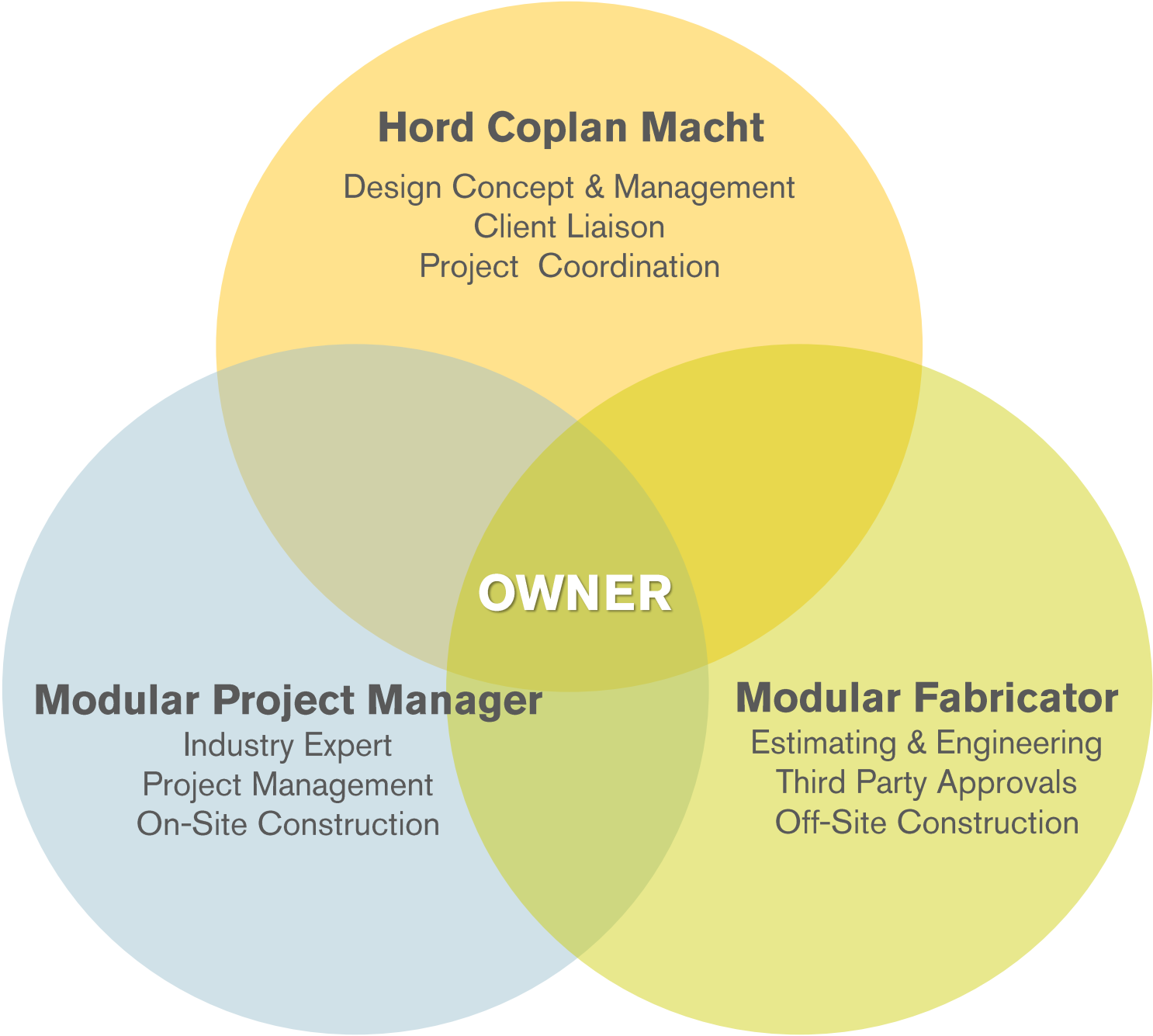
A photograph of a modern building with a wooden deck and stairs, surrounded by trees. The building has a flat roof and large windows. The stairs are made of wood and have metal railings. The word "WHAT" is overlaid in the center of the image.

WHAT

MODULAR DESIGN CONSTRAINTS



MODULAR COLLABORATIVE DESIGN PROCESS



A grayscale architectural rendering of a modern building with a light-colored, horizontally-slatted facade. In the foreground, a person is riding a bicycle on a paved path, and a pedestrian with a backpack is walking. The scene includes trees, a parking lot with white lines, and a tall, thin pole. The word "HOW" is overlaid in large white letters within a white rectangular frame.

HOW

LOYOLA UNIVERSITY MARYLAND MODULAR BOOKSTORE & MAILCENTER

Cost - \$2.2m

Size – 9,750gsf

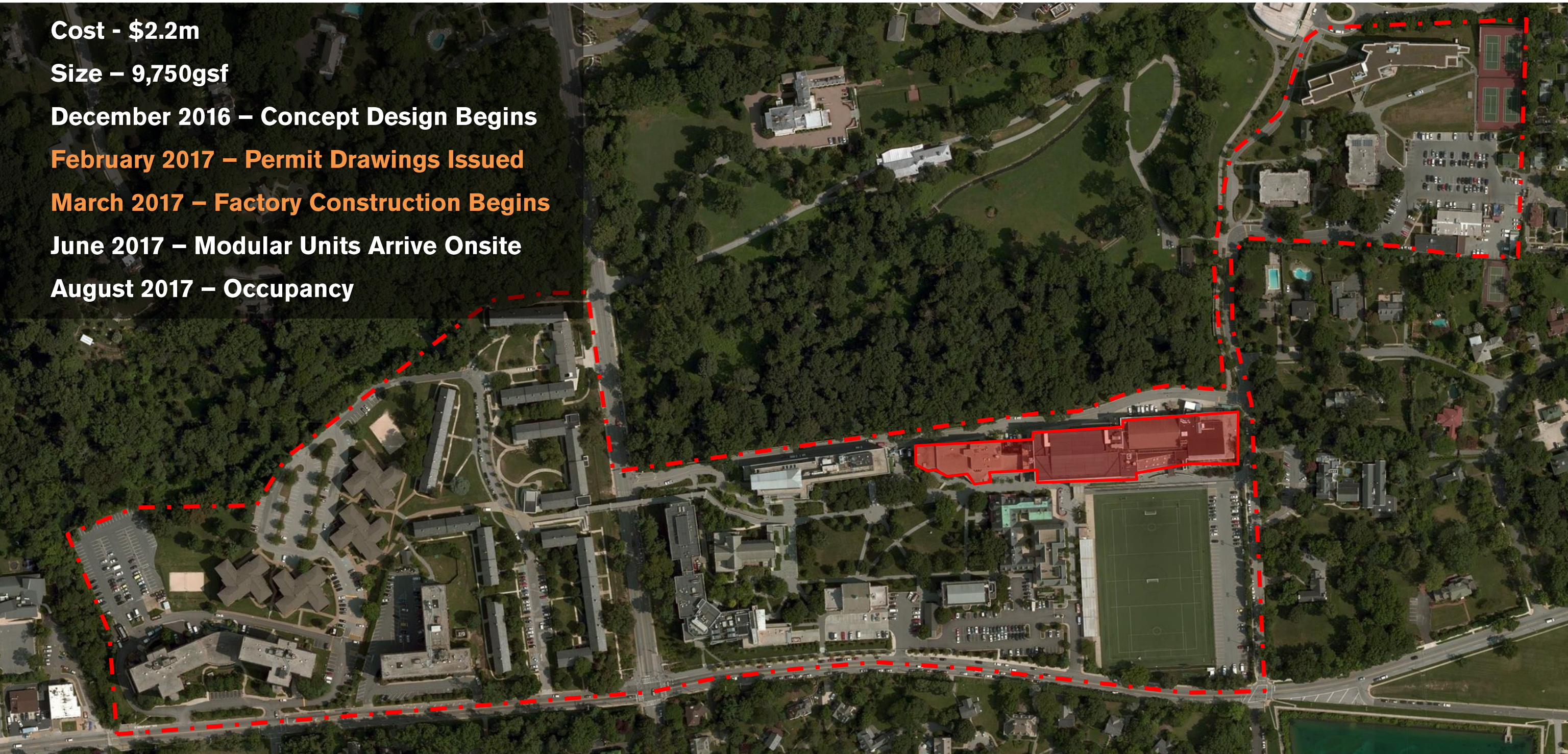
December 2016 – Concept Design Begins

February 2017 – Permit Drawings Issued

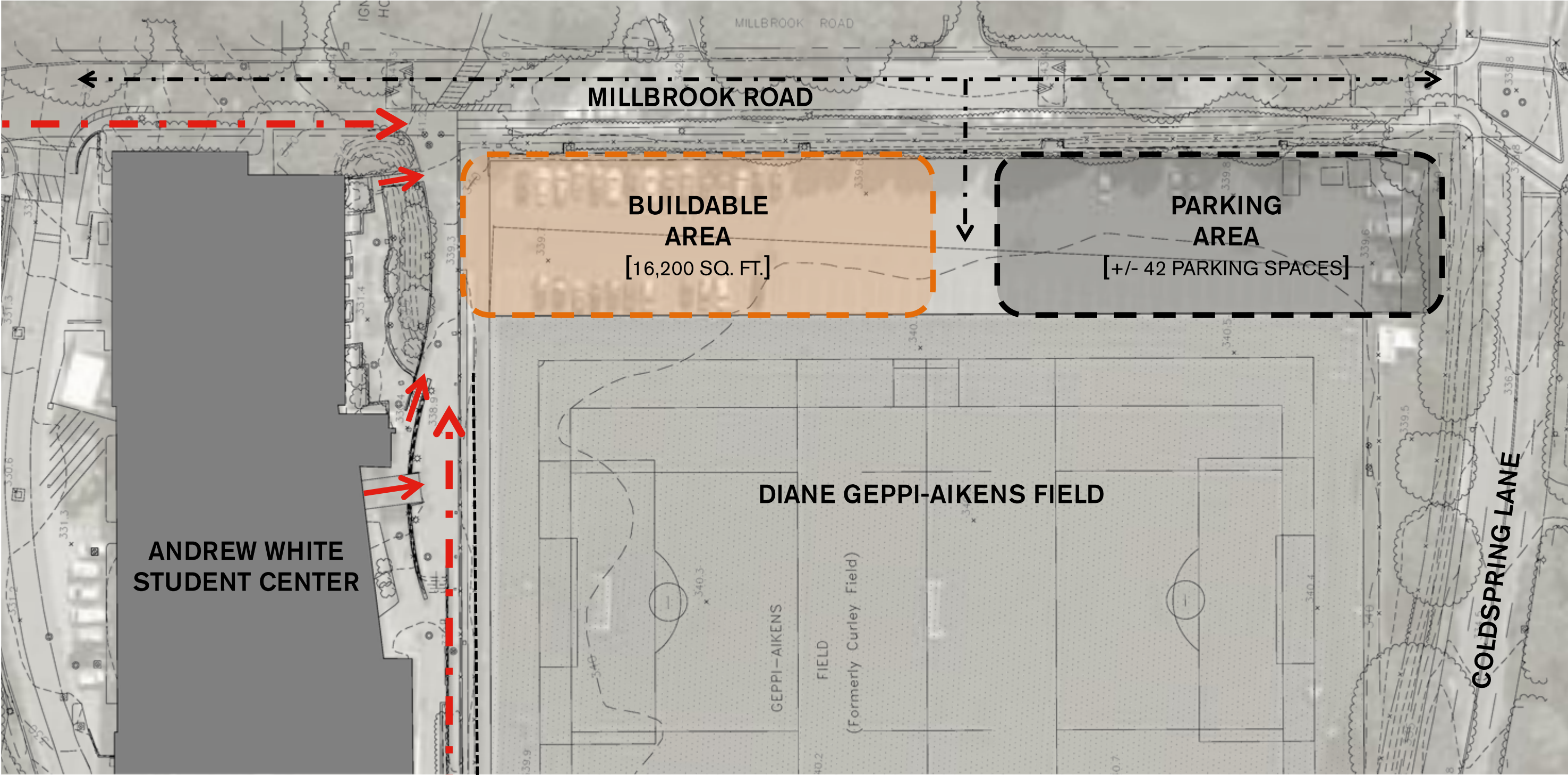
March 2017 – Factory Construction Begins

June 2017 – Modular Units Arrive Onsite

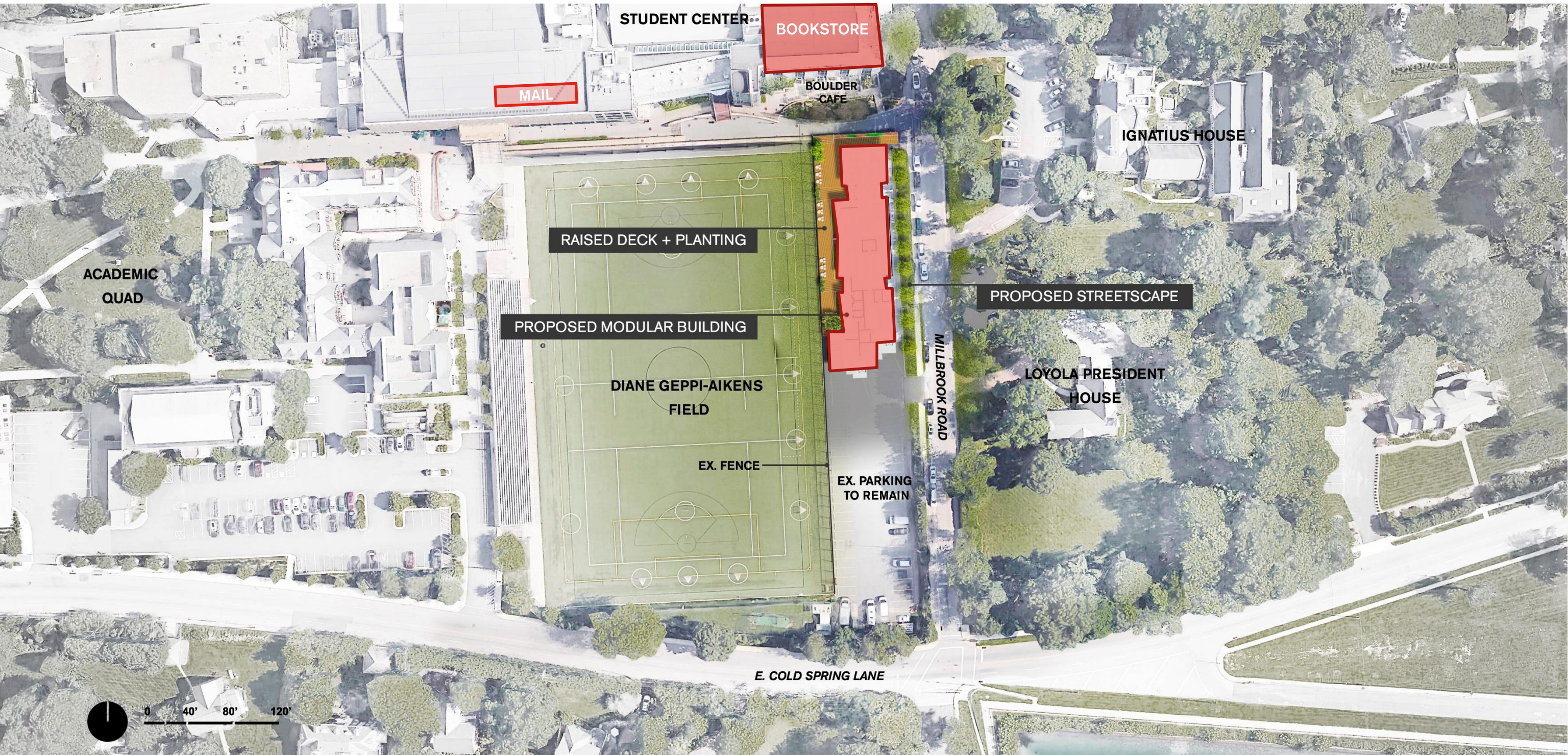
August 2017 – Occupancy



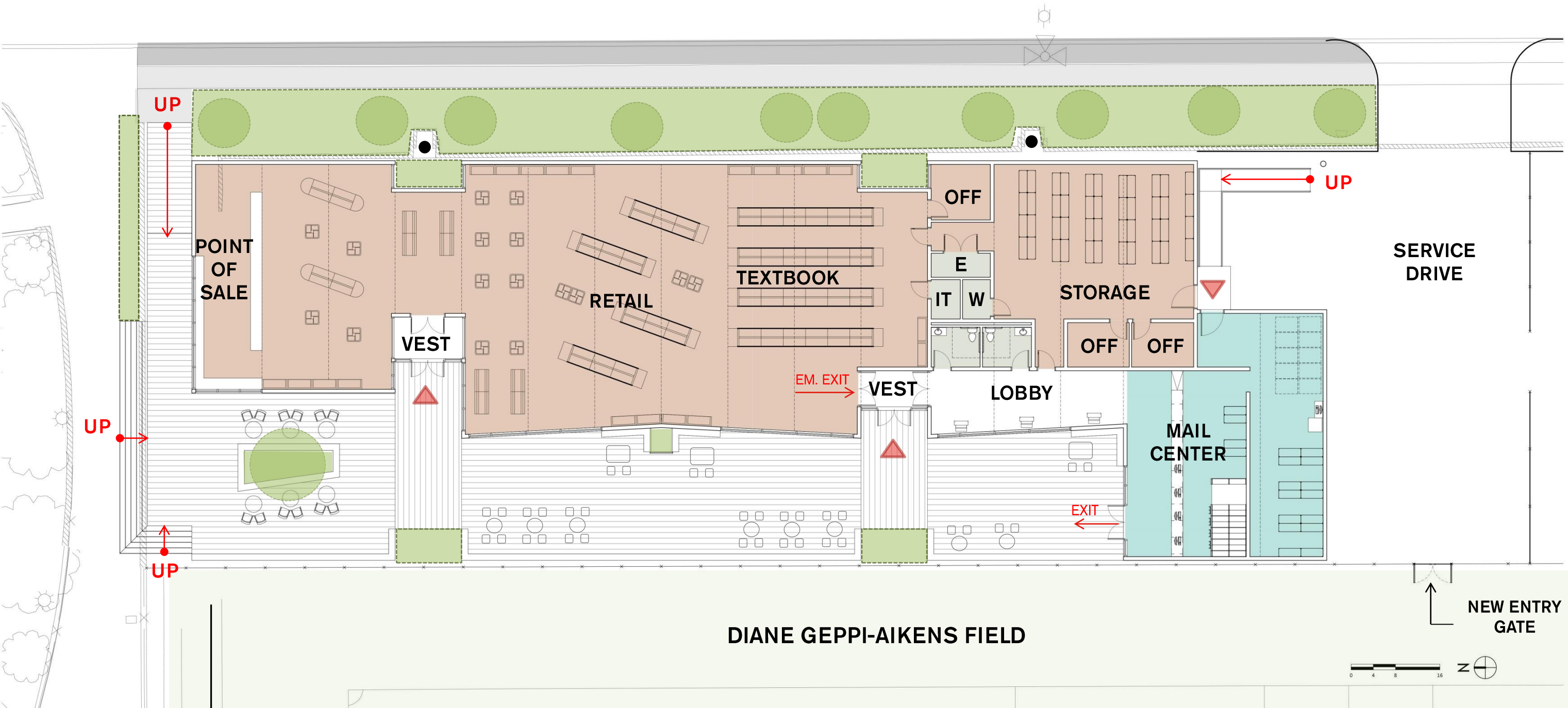
SITE ANALYSIS

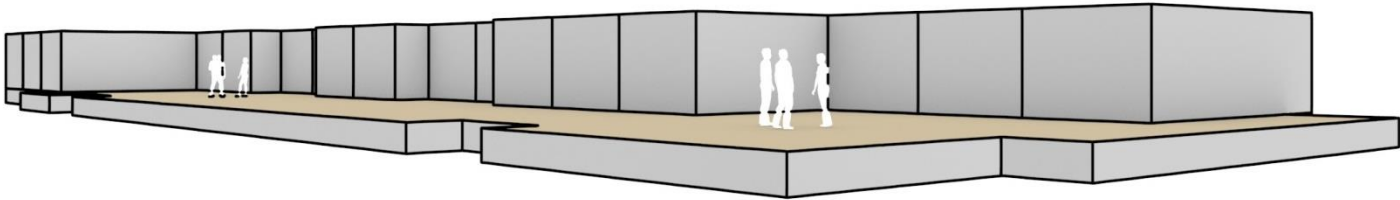
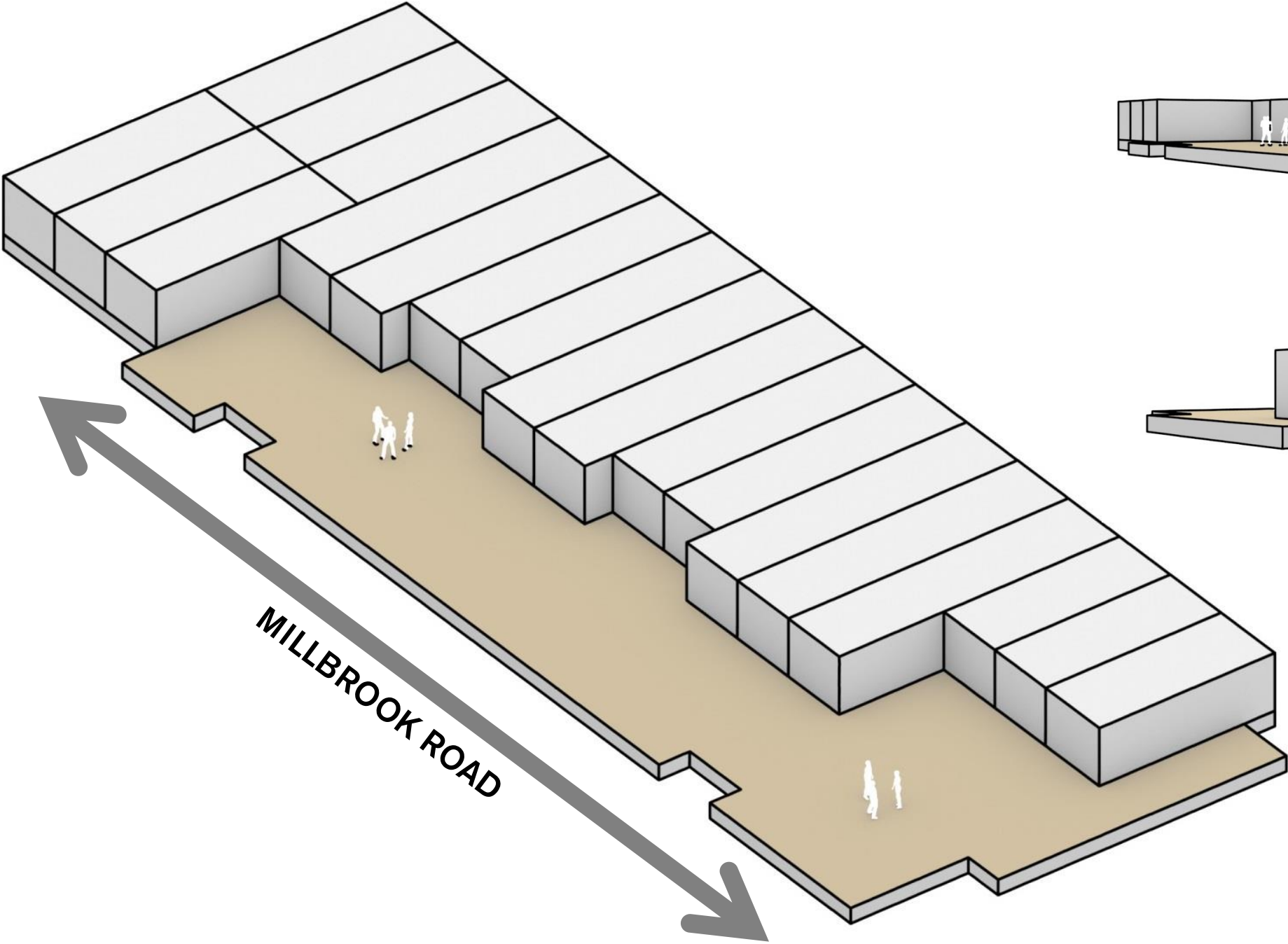


SUMMER 2017 PROJECTS

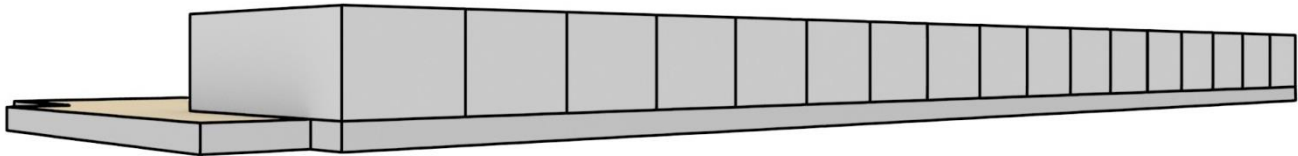


MODULAR BOOKSTORE + MAILCENTER

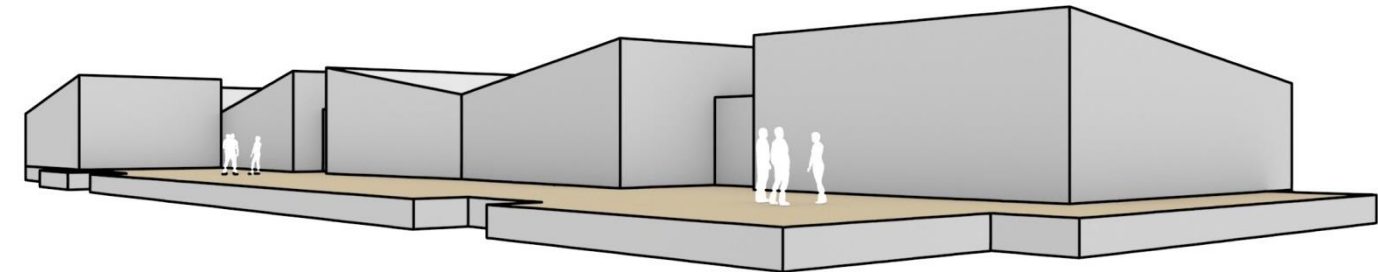
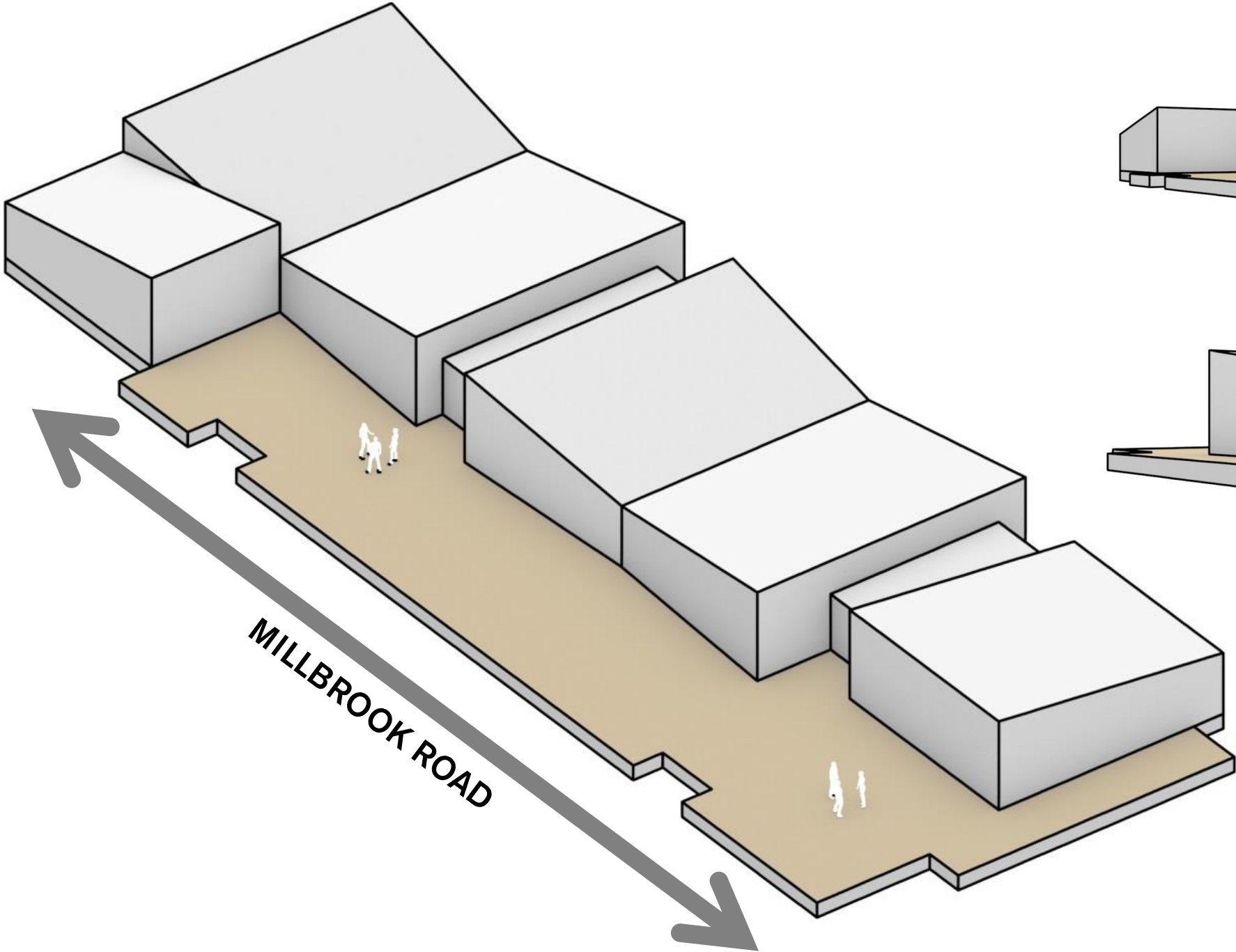




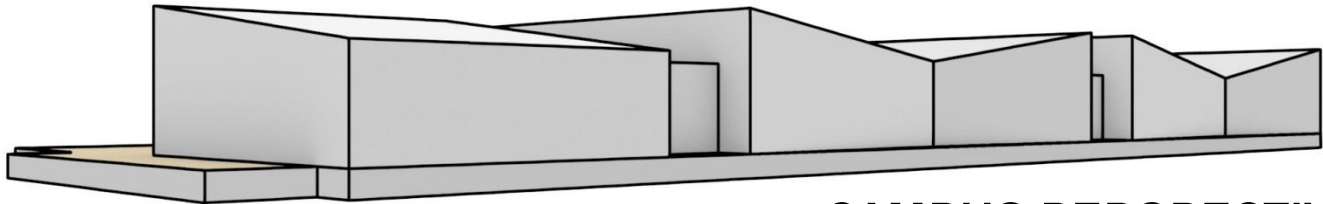
MILLBROOK PERSPECTIVE



CAMPUS PERSPECTIVE



MILLBROOK PERSPECTIVE



CAMPUS PERSPECTIVE

PIER DETAIL @ CORNER
3/4" x 1'-0"

PIER DETAIL @ MATELINE
3/4" x 1'-0"

OPTIONAL PIER DETAIL @ CORNER
3/4" x 1'-0"

OPTIONAL PIER DETAIL @ MATELINE
3/4" x 1'-0"

5/25/2017: page: 23 of 55.

DATE: 5/25/2017
DRAWN BY: HAS
JOB NUMBER: 15-0018
PRINT DATE: 5/25/2017
SCALE: 1/8" = 1'-0"
SHEET: S2

PIER DETAIL @ CORNER
3/4" x 1'-0"

PIER DETAIL @ MATELINE
3/4" x 1'-0"

OPTIONAL PIER DETAIL @ CORNER
3/4" x 1'-0"

OPTIONAL PIER DETAIL @ MATELINE
3/4" x 1'-0"

5/25/2017: page: 24 of 55.

DATE: 5/25/2017
DRAWN BY: HAS
JOB NUMBER: 15-0018
PRINT DATE: 5/25/2017
SCALE: 1/8" = 1'-0"
SHEET: S2

PIER DETAIL @ CORNER
3/4" x 1'-0"

PIER DETAIL @ MATELINE
3/4" x 1'-0"

OPTIONAL PIER DETAIL @ CORNER
3/4" x 1'-0"

OPTIONAL PIER DETAIL @ MATELINE
3/4" x 1'-0"

5/25/2017: page: 25 of 55.

DATE: 5/25/2017
DRAWN BY: HAS
JOB NUMBER: 15-0018
PRINT DATE: 5/25/2017
SCALE: 1/8" = 1'-0"
SHEET: S2

PIER DETAIL @ CORNER
3/4" x 1'-0"

PIER DETAIL @ MATELINE
3/4" x 1'-0"

OPTIONAL PIER DETAIL @ CORNER
3/4" x 1'-0"

OPTIONAL PIER DETAIL @ MATELINE
3/4" x 1'-0"

5/25/2017: page: 26 of 55.

DATE: 5/25/2017
DRAWN BY: HAS
JOB NUMBER: 15-0018
PRINT DATE: 5/25/2017
SCALE: 1/8" = 1'-0"
SHEET: S2

PIER DETAIL @ CORNER
3/4" x 1'-0"

PIER DETAIL @ MATELINE
3/4" x 1'-0"

OPTIONAL PIER DETAIL @ CORNER
3/4" x 1'-0"

OPTIONAL PIER DETAIL @ MATELINE
3/4" x 1'-0"

5/25/2017: page: 27 of 55.

DATE: 5/25/2017
DRAWN BY: HAS
JOB NUMBER: 15-0018
PRINT DATE: 5/25/2017
SCALE: 1/8" = 1'-0"
SHEET: S2

PIER DETAIL @ CORNER
3/4" x 1'-0"

PIER DETAIL @ MATELINE
3/4" x 1'-0"

OPTIONAL PIER DETAIL @ CORNER
3/4" x 1'-0"

OPTIONAL PIER DETAIL @ MATELINE
3/4" x 1'-0"

5/25/2017: page: 28 of 55.

DATE: 5/25/2017
DRAWN BY: HAS
JOB NUMBER: 15-0018
PRINT DATE: 5/25/2017
SCALE: 1/8" = 1'-0"
SHEET: S2

28

www.coappa.org

hord | coplan | macht

FACTORY PHOTOS



FACTORY PHOTOS



FACTORY PHOTOS



EXTERIOR PERSPECTIVE



FINISHED PHOTOS



INTERIOR PERSPECTIVES



FINISHED PHOTOS



FINISHED PHOTOS



MODULAR BOOKSTORE + MAILCENTER



00:14



An aerial photograph of a university campus. On the left is a large, multi-story stone building with many windows and a central entrance. A paved walkway leads from the bottom left towards the building. The right side of the image is filled with large, leafy trees. The overall scene is captured in a monochromatic, slightly desaturated style.

Q&A