



Greening Acopian

Sustainable Solutions

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Agenda

1 Introduction and Background

2 Outside

3 Design Proposal



Background Information

- EGRS Capstone Projects
 - The atmosphere of Acopian
 - Fall 2017 - Art in the Stairwell
 - Fall 2018 - Greenwall

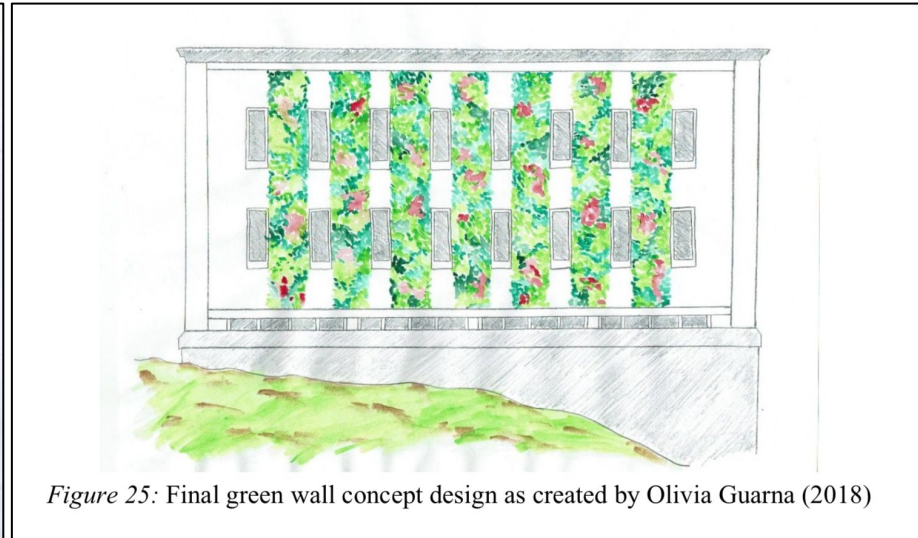
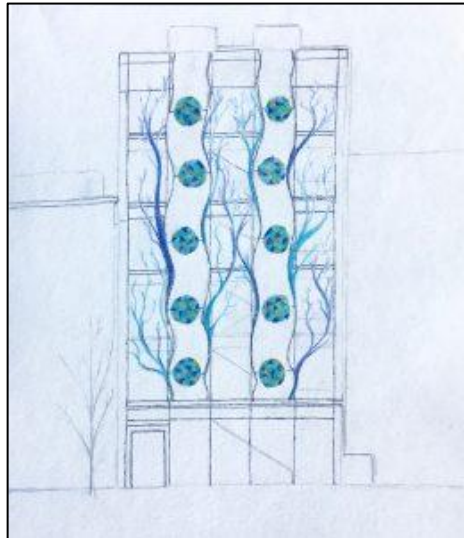


Figure 25: Final green wall concept design as created by Olivia Guarna (2018)

Problem Definition

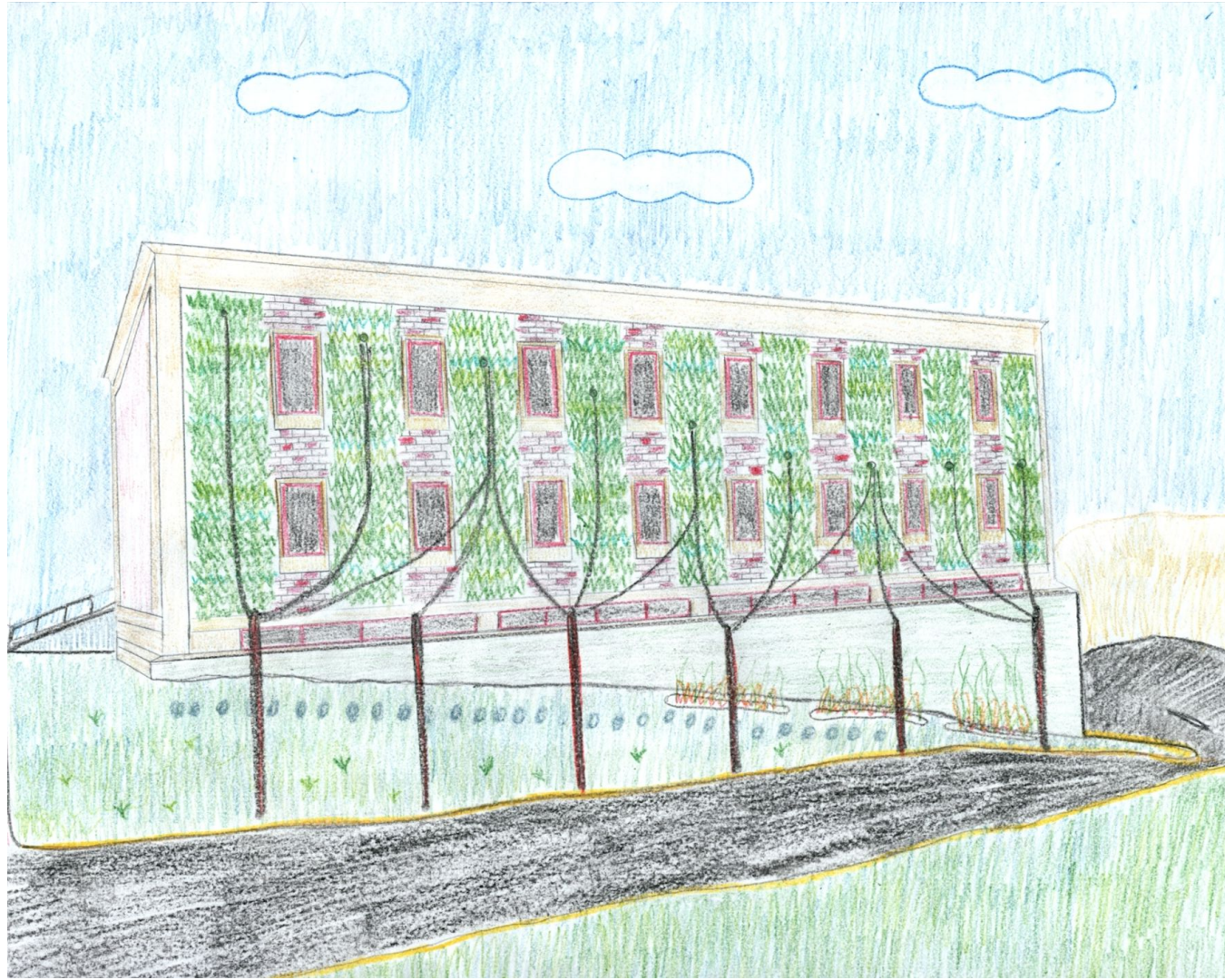
“Creating a multidimensional collaborative space on the north east wall of Acopian that facilitates interaction between students of all different areas here on campus.”

Lets Go Outside!



Design Proposal





Design Elements



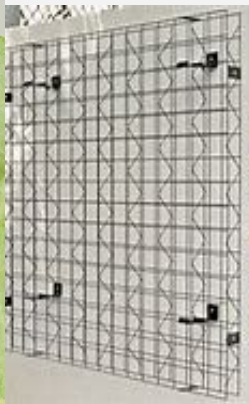
Options for the Structure



LiveWall



Tournesol 3D Modular Trellis



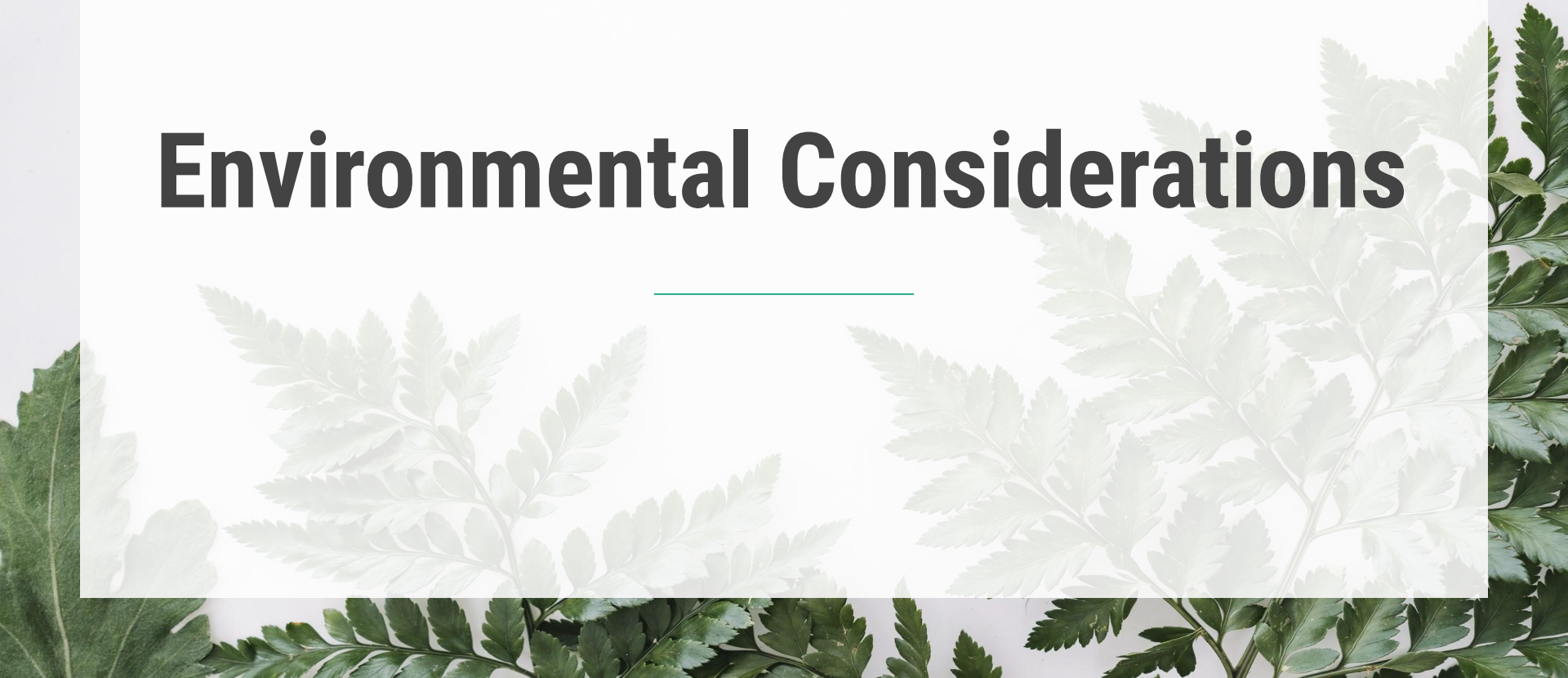
Pole Design

Envelope a collaborative space

- Varying heights
- Thin light wire
- Vines



Environmental Considerations

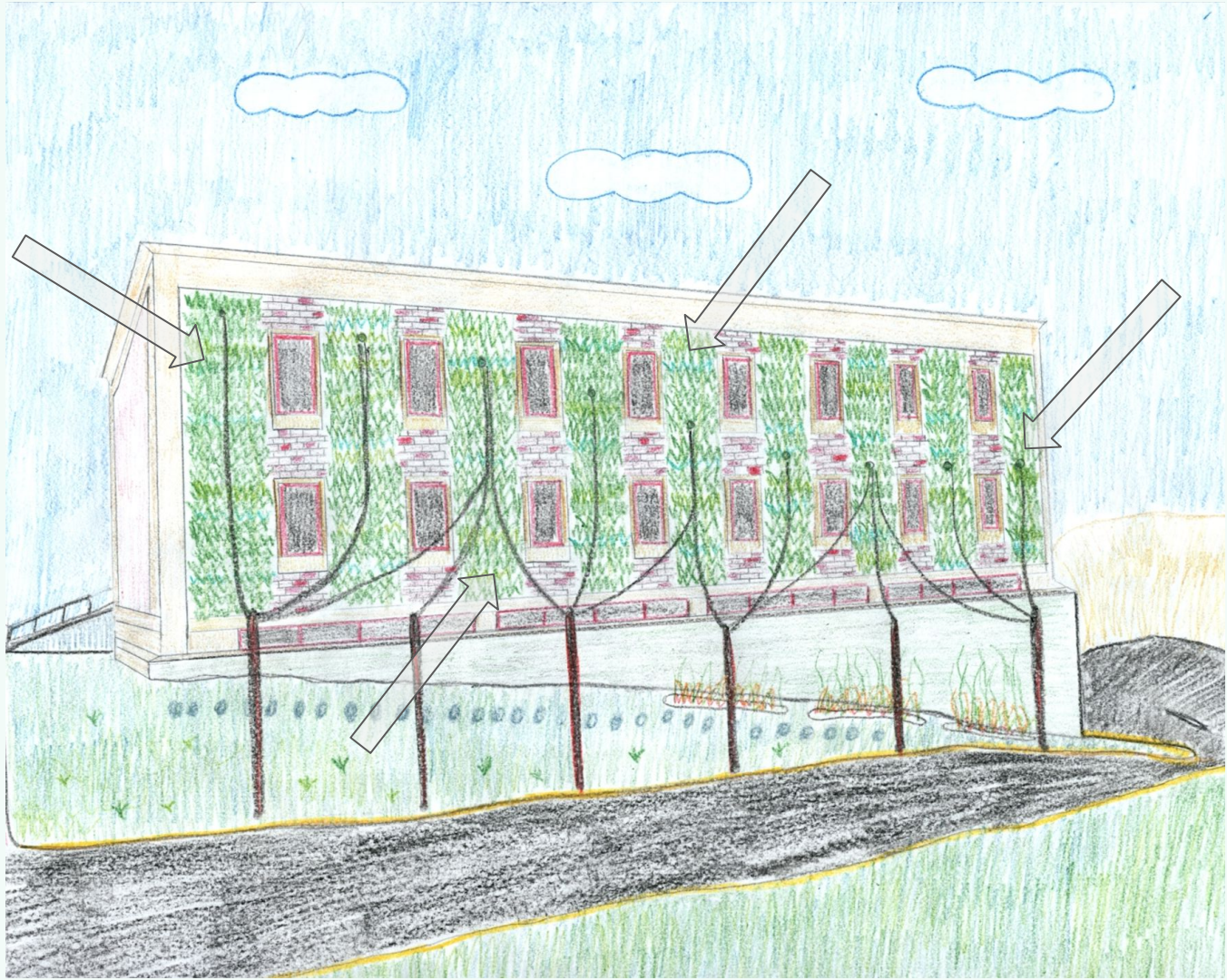


Benefits for Students

- Creates a welcoming space
- Allows for a place of stress relief
- Increases workplace productivity
- Fragrances can help improve memory and have calming effects

Benefits for the Environment

- Rehabilitates existing environment
- Increases biodiversity
 - Safe space for birds
 - Provides a habitat for pollinators
 - Implements of bat boxes creates a sheltered space



Plant Options

Plant Choices for the Wall

- Coleus
- Ferns
- Ivy
- Moss
- Sweet Potato Vine
- Virginia Creeper

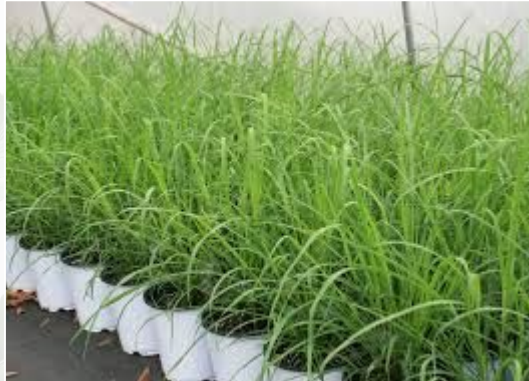


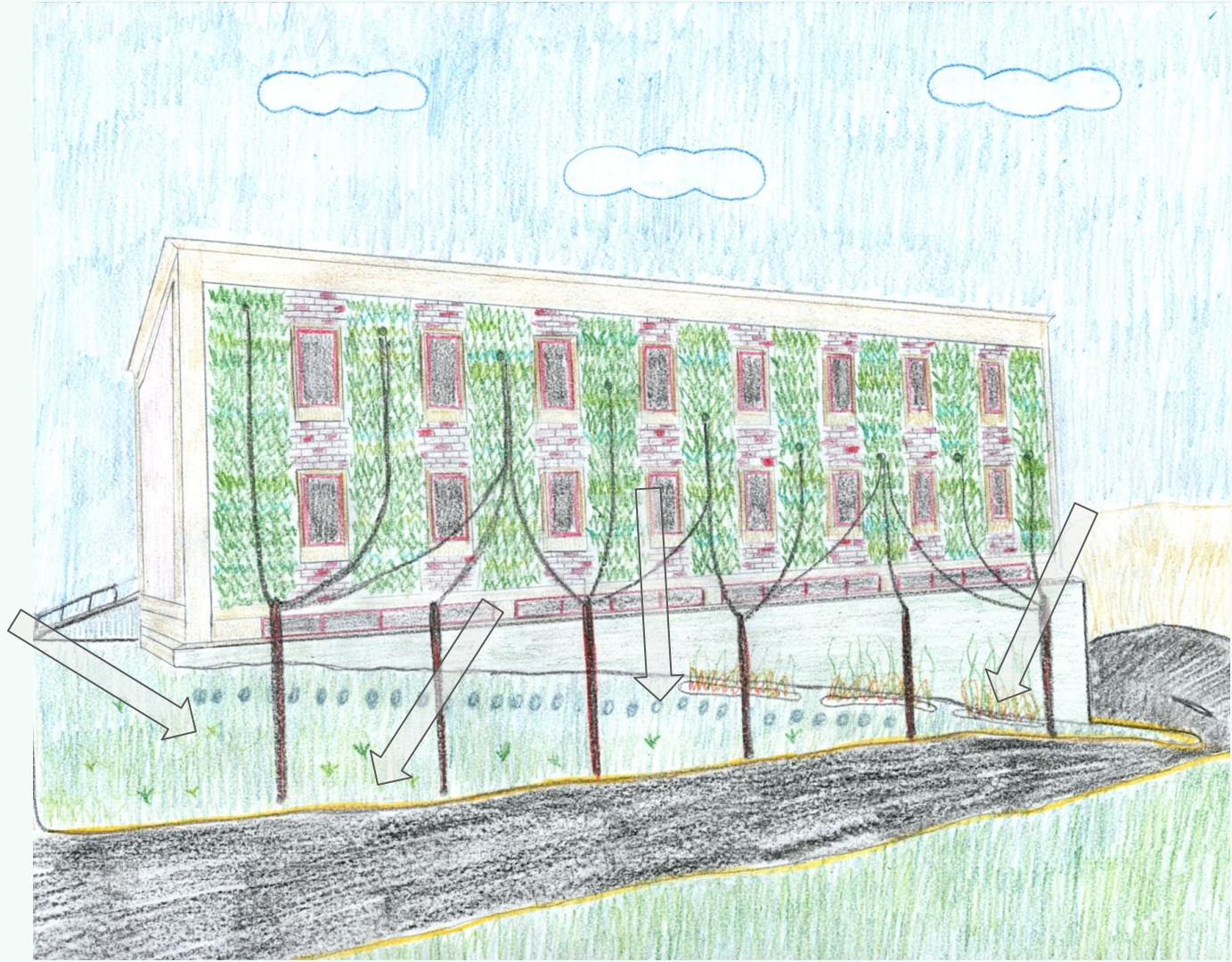


Cont...

Plants that will be successful
in pots

- Mint
- Lavender
- Cilantro
- Sage
- Rosemary
- Lemongrass





Cont...

Plant Choices for the Ground

- Joe-pye wood
- Goldenrod
- Black-eyed Susan
- Primrose
- Sunflowers
- Stiff-haired
- Milkweeds



Economic Contexts



Non Market Financial Benefits

- There are a variety of diverse values that this project provides Lafayette
 - Recreational Value
 - Educational Value
 - Environmental Value
 - Reputational Value
- Currently we are designing a survey for members of the community about the area in order to properly recognize the perspective of people outside of this room.

An investment into the future of Lafayette's Community

- Estimates for living walls
 - (\$45,000 - \$300,000)
- Estimates of Green facades
 - (\$60,000)



Connection to Lafayette





Core Values of the College


- Collaboration
- Inclusivity
- Diversity and Inclusion
- Sustainability (Climate Action Plan)
- Outstanding Service
- Core mission of the school is educational
 - Bringing new students in
 - Bolstering the experience of engineering students
 - How do we inhabit the space
 - How do we connect the different areas

Thank you!

GREENING ACOPIAN

[PROJECT BACKGROUND](#) ▾ [DESIGNING THE EAST WALL](#) ▾ [TIMELINE](#) ▾ [RESOURCES](#) [🔍](#)

INTRODUCING THE PROJECT



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Greening Acopian is a project currently run by Lafayette College's [EGRS Sustainable Solutions](#) class where the goal is to create a more welcoming appearance for the already existing engineering building on campus. To read more about why Acopian has become the focus of this undertaking click: [here](#).

Over the course of the semester, the project team will be developing plans and designs to update the east wall of Acopian, hoping to incorporate art, technology, and environmental aspects into the new exterior. To learn more about the design of the wall feel free to explore the following pages:

[Structural and Technical](#)
[Design and Layout](#)
[Environmental Context](#)

For more information, check out our website: sites.lafayette.edu/greeningacopian