Itasca State Park Biological Station: Regenerative Campus Community
Regenerative Campus Community

Existing Buildings and Demolition Plan
Regenerative Campus Community

Circulation Plan
The Design intent for the Regenerative Campus Community is to create holistic and humble designs that work with nature and become educational tools for visitors and students.
Regenerative Campus Community

Site Plan
Regenerative Campus Community

Structure and Material Pallet
Regenerative Campus Community Technologies

- Rainwater Collection
- Composting Toilets
- Solar Panels
- Lake Geothermal
- Minimalist / Flexible / Transformable Furniture
- Louvers

Grey Water Reuse
Minimize Water Use, Compost for Gardens
Energy for Lighting and Water Heating
Heating
Efficient Use of Space
Shading / Cooling
Regenerative Campus Community

Visitor’s Center

Welcoming / Gateway into Campus Community
Primary Public Education Center
Acts as a Gallery to Display Campus Work to the Public
Fire tower and Form Allow Visitors to Orientate Themselves and View the Site
Primary Green Education: Green Roof Typologies and Thermal Massing
Regenerative Campus Community

Visitor’s Center – Site Plan
Regenerative Campus Community
Visitor’s Center

Visitors Gallery / Information ..................................................... 2300
Indoor/Outdoor Interactive Displays ......................................... 2500
Green products gift shop ........................................................... 1500
Viewing Tower................................................................. 500
Administrative Offices ........................................................... 1700
Classrooms ........................................................................... 2500
Storage ................................................................................. 500
Toilets .................................................................................. 500

Total: (gsf)
Regenerative Campus Community
Visitor’s Center – 2nd Level
Regenerative Campus Community
Visitor's Center – 3rd Level
Regenerative Campus Community

Community Center

Communal Living Prototype
Allow Occupants to Experience Self Sustaining Living
Primary Green Education: Ventilation, Gardens, and Rainwater Collection
Regenerative Campus Community

Community Center – Site Plan
Regenerative Campus Community

Community Center – Floor 1.5
Regenerative Campus Community
Community Center – 2nd Floor
Regenerative Campus Community
Environmental Engineering College

Allow Students to Experiment and Develop Green Strategies
Students Design and Create Green Pre-fabricated Cabins
Primary Green Education: Green Technologies and Flexible Space
Regenerative Campus Community

Environmental Engineering College – Site Plan
Regenerative Campus Community

Environmental Engineering College

Work Station / Shop .................................................. 4000
Equipment Storage .................................................... 2000
Computer Lab ............................................................ 2000
Administrative Offices .............................................. 1000
Toilets .................................................................... 500

Total: 9,500 (gsf)
Regenerative Campus Community
Environmental Engineering College – 2nd Floor
Regenerative Campus Community

Biological Station

Allow Students to Study the Surrounding Ecosystem
Primary Green Education: Earth Berming and Sunlight
Regenerative Campus Community

Biological Station

- Research Laboratories (2) .................................... 4000
- Equipment Storage............................................... 1000
- Computer Lab....................................................... 2000
- Administrative Offices.......................................... 1000
- Toilets.................................................................... 500

Total: 8,500 (gsf)
Regenerative Campus Community

Site Plan