reCAPTURE

CHARGE
CLAIM
USE
ACT
NEW

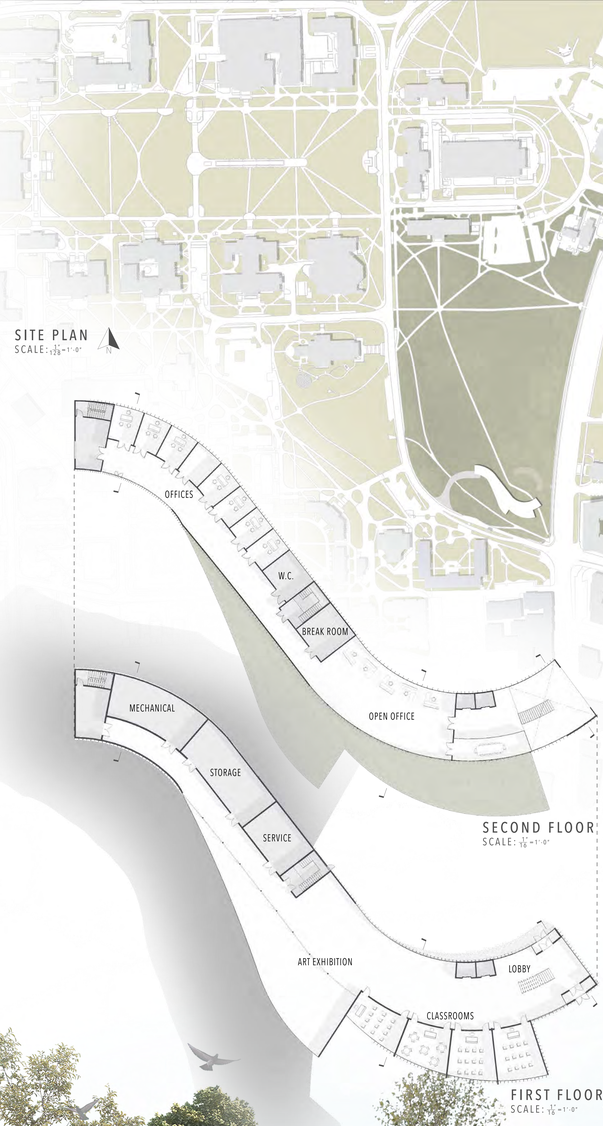
Located within the reaches of the Paint Branch watershed, reCAPTURE is a building that facilitates a cohesion between the built environment and the **floodplain**. Using the river as a lens, the need for **stormwater management** becomes overt.

On a rainy day in College Park rain water sweeps down the field and pools up at the entrance of campus. In order to mitigate this issue, the building encircles the oversaturated ground and provides multiple measures against flooding. The roof's unique rising form allows for **rainwater collection** at the midpoint of the building which is diverted into cisterns and treatment systems inside.

Native vegetation lines the site and properly processes storm water unlike the current groundcover of mown grass. Plants like Golden Ragwort and Milkweed fill the constructed wetland that stems from the building. The wetland filters water and then a collection system uses excess water within the building's toilets and sinks.

The **building orientation** is equally symbolic as well as it is a strategic sun shading technique. Minimizing the Eastern and Western facades allows for controlled Northern and Southern light. Vertical fins flow along the facade tying in the classic brick color of campus as well as controlling ambient light.

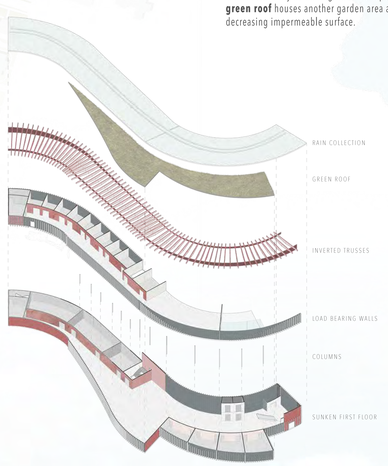
Rising out of the landscape, the building benefits from the thermal properties of the earth. The concept of a partially buried building inspired the use of **geothermal fields** to provide a sustainable energy source. Carefully extending from the topography, the **green roof** houses another garden area as well as decreasing impermeable surface.



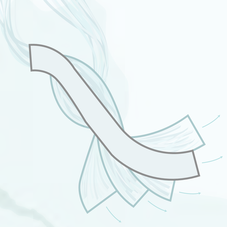
SITE PLAN
SCALE: 1/16" = 1'-0"

SECOND FLOOR
SCALE: 1/16" = 1'-0"

FIRST FLOOR
SCALE: 1/16" = 1'-0"



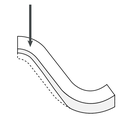
STRUCTURE DIAGRAM



INTERSECT

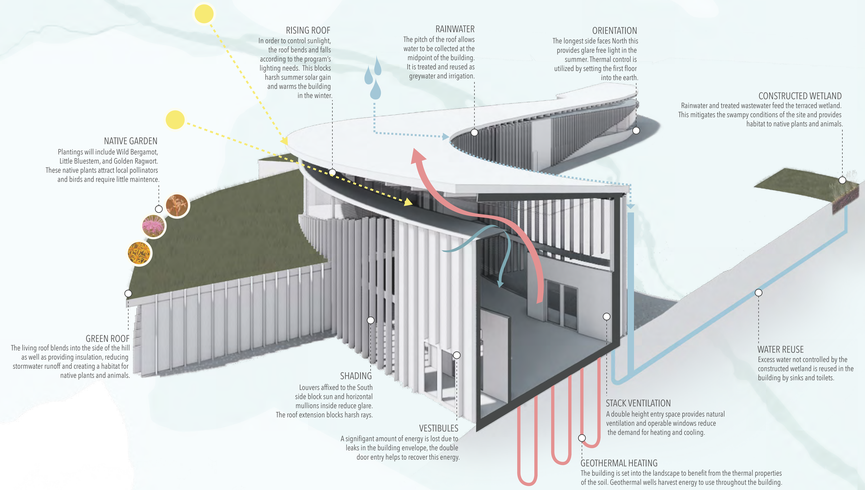
EXTEND

INTERACT

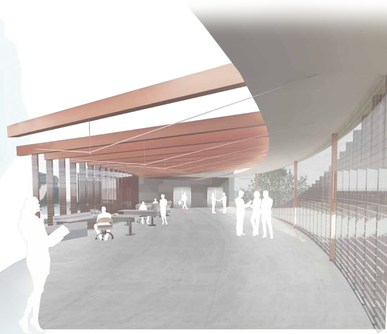


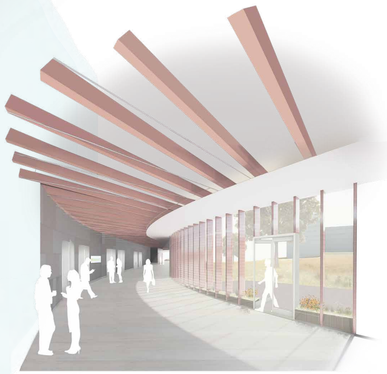
SINK

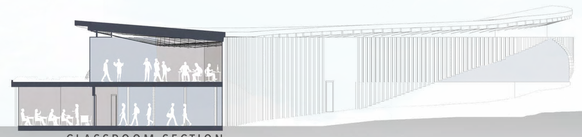
FLOW



SUSTAINABILITY DIAGRAM







CLASSROOM SECTION
SCALE: 1/8" = 1'-0"

EXHIBIT SECTION
SCALE: 1/8" = 1'-0"

OFFICE SECTION
SCALE: 1/8" = 1'-0"