

# PROCTOR CREEK

## STREAM ENHANCEMENT

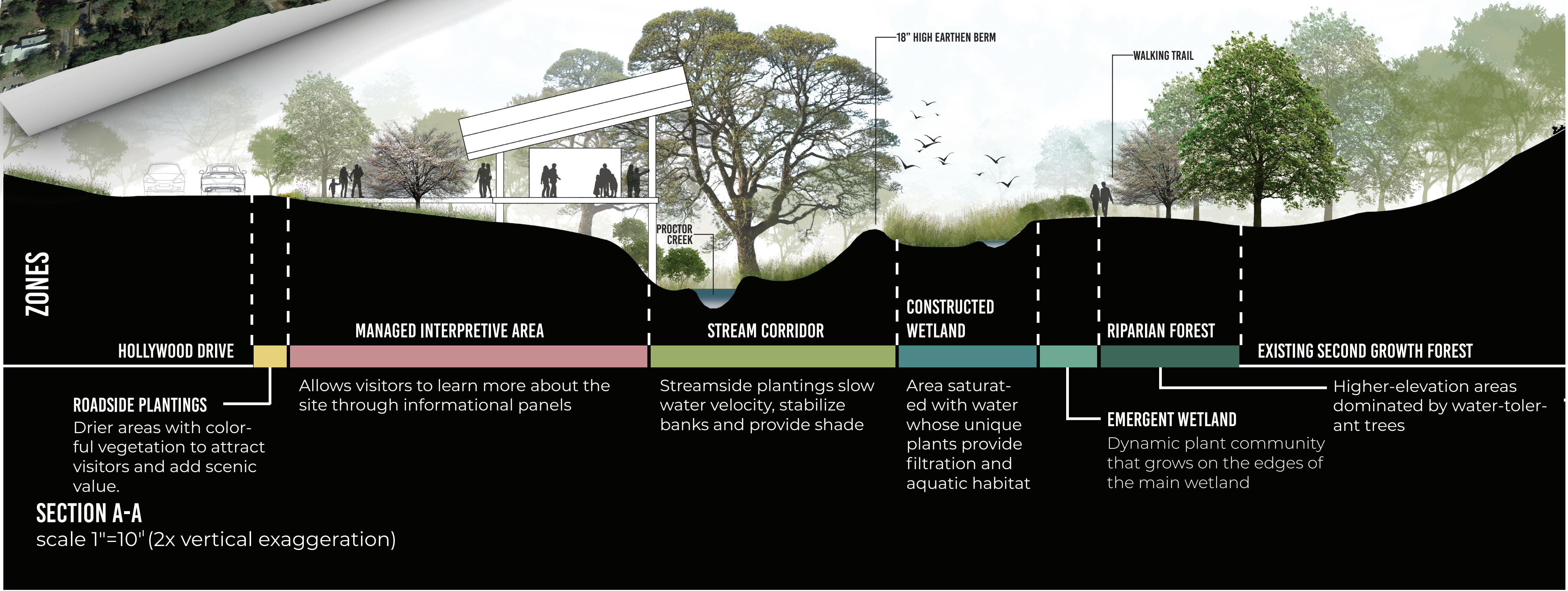
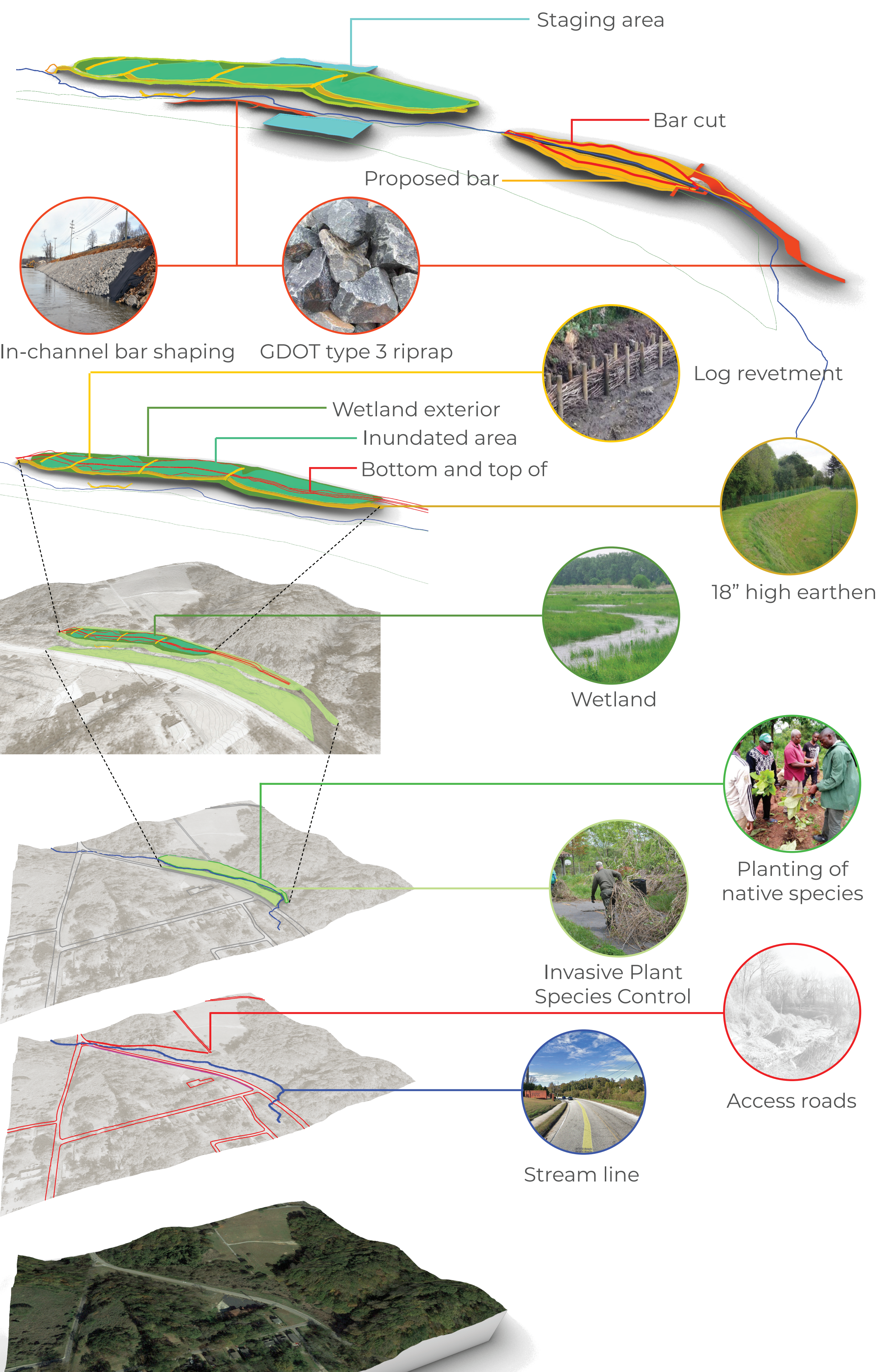


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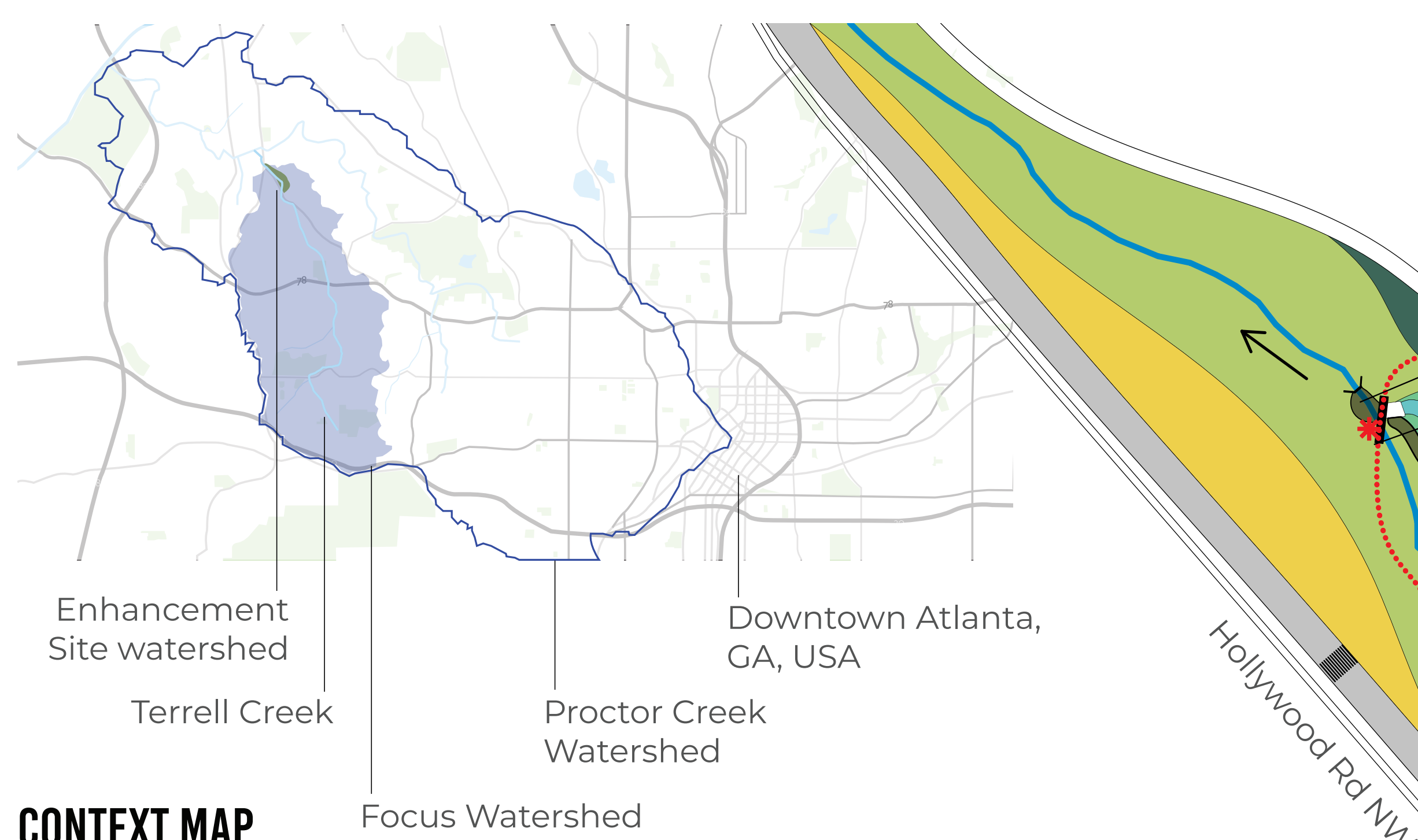


UNIVERSITY OF  
**GEORGIA**  
College of  
Environment + Design

### USACE CONCEPTUAL DESIGN



### LAND 6390 STUDENT DESIGN ENHANCEMENT

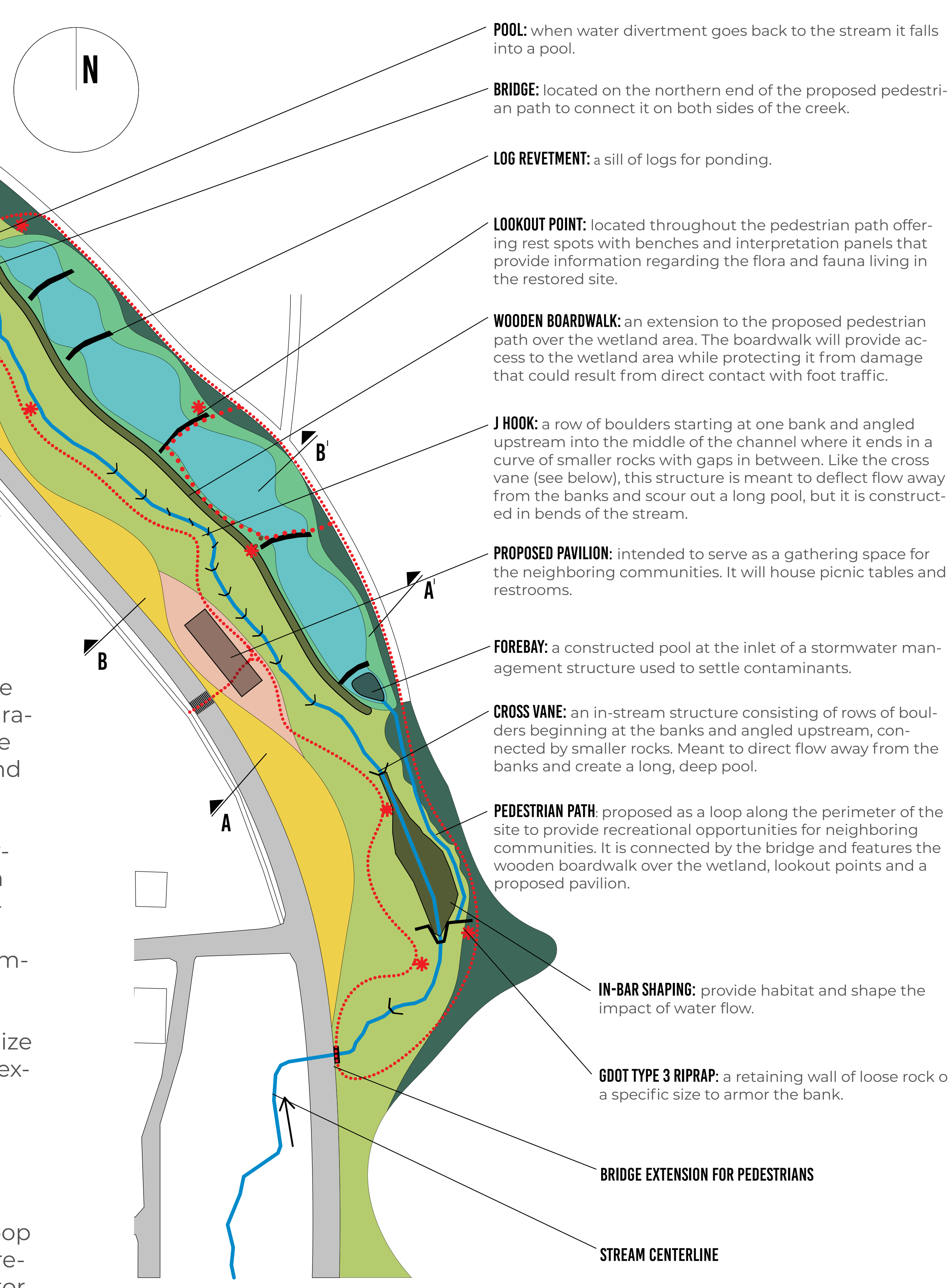


#### CONTEXT MAP

Proctor Creek is an 8.4-mile stream with its headwaters in in Metro Atlanta, Georgia, USA. Draining a 16-square mile watershed, its channel flows north-west into the Chattahoochee River. This urban waterway is stressed by run-off from the high impervious land cover in the watershed, resulting in severe flooding, as well being affected by pollution, erosion, and other types of degradation. In addition, many neighborhoods in the Proctor Creek watershed are challenged by emerging gentrification, and lack of access to food, banks, and other resources.

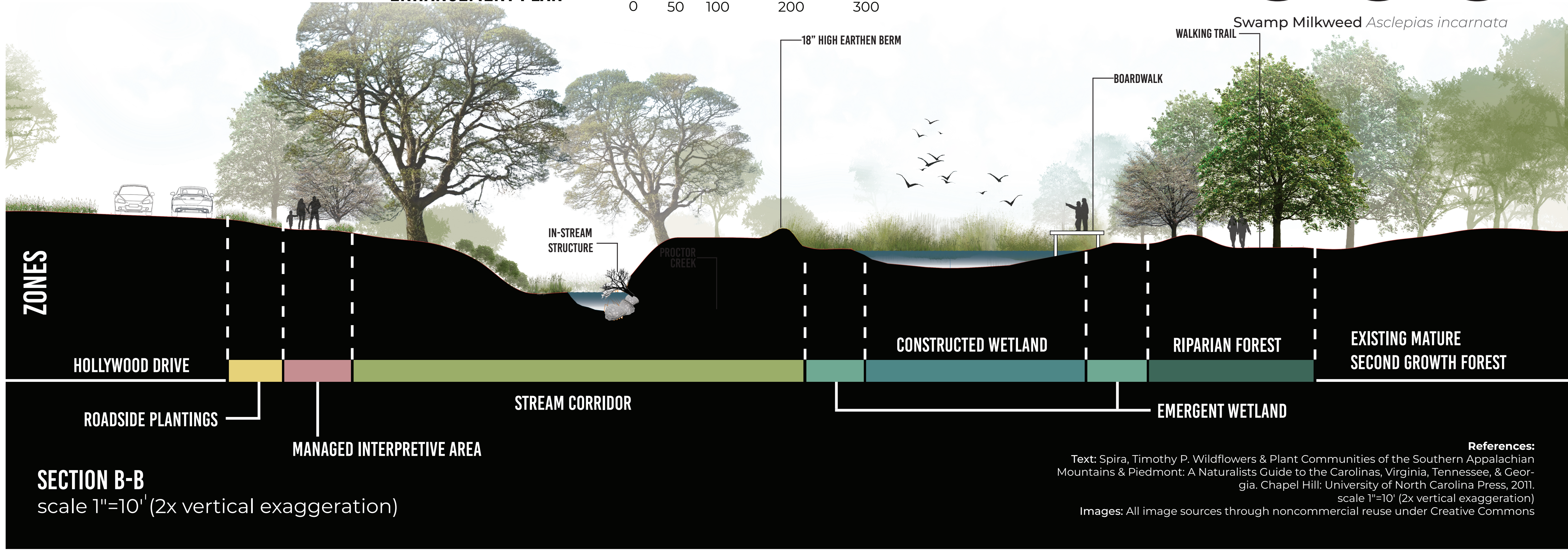
The Army Corps of Engineers (USACE) has developed a plan to restore several reaches of the creek and two of its tributaries. The USACE plan focuses on physical stream enhancements such as bank stabilization, invasive plant removal, and riparian zone planting. The project's feasibility report identifies other opportunities that could be met with further planning, especially by improving accessibility to the creek. Students from the Ecological Restoration class in the College of Environment and Design at the University of Georgia sought to enhance the USACE design by proposing alternatives that minimize the use of gray infrastructure and maximize habitat, aesthetics, and public experience of the creek.

After being briefed on the USACE plan by a Corps representative, students met with community members associated with the Proctor Creek Stewardship Council who guided our visit to the Hollywood Road stream reach. Students generated a design that incorporated native plantings, a pavilion, a loop trail, and a boardwalk with lookout points over a wetland. The goal was to create a design informed by the desires of the communities neighboring Proctor Creek while increasing the ecological benefits of the USACE plan.



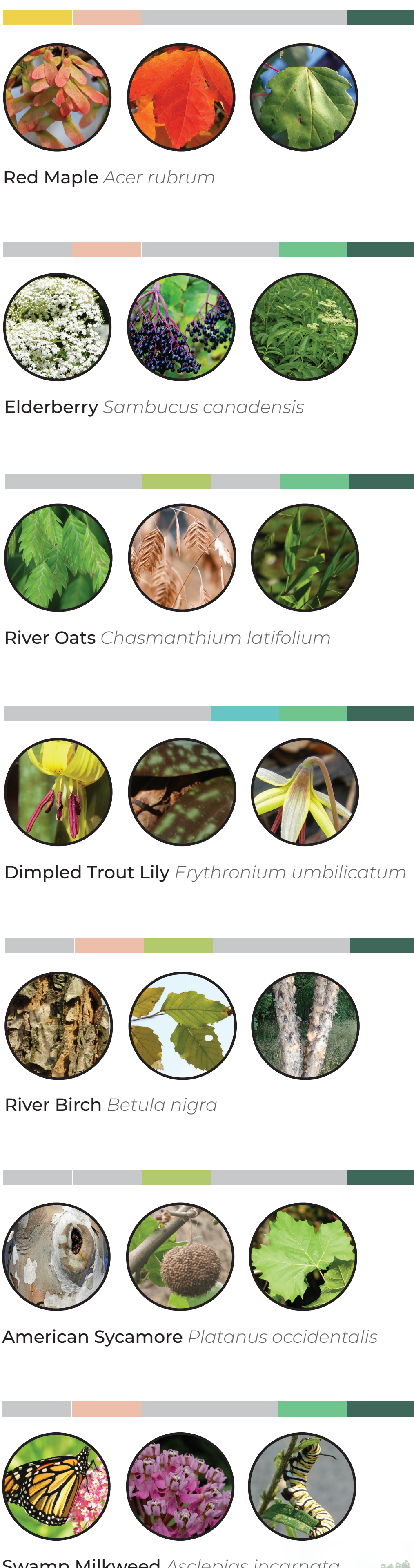
#### ENHANCEMENT PLAN

0 50 100 200 300



#### SECTION B-B

scale 1"=10' (2x vertical exaggeration)



References:  
Text: Spira, Timothy P. Wildflowers & Plant Communities of the Southern Appalachian Mountains & Piedmont. A Naturalists Guide to the Carolinas, Virginia, Tennessee, & Georgia. Chapel Hill: University of North Carolina Press, 2011.  
scale 1"=10' (2x vertical exaggeration)  
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