



Plan View

The level of water in Bayou La Cache is raised by a weir to a higher elevation, discharging into an existing borrow pit. A collection of new weirs between the existing borrow pits control their water level. Using gravity, water cascades downwards and returns to the bayou allowing still water to move. Concurrently and during drought spells, modern wind mills, connected to Archimedes screw-pumps, elevate drainage water to the level-controlled borrow pits.

- 1

Weir to divert water to retention ponds
- 2

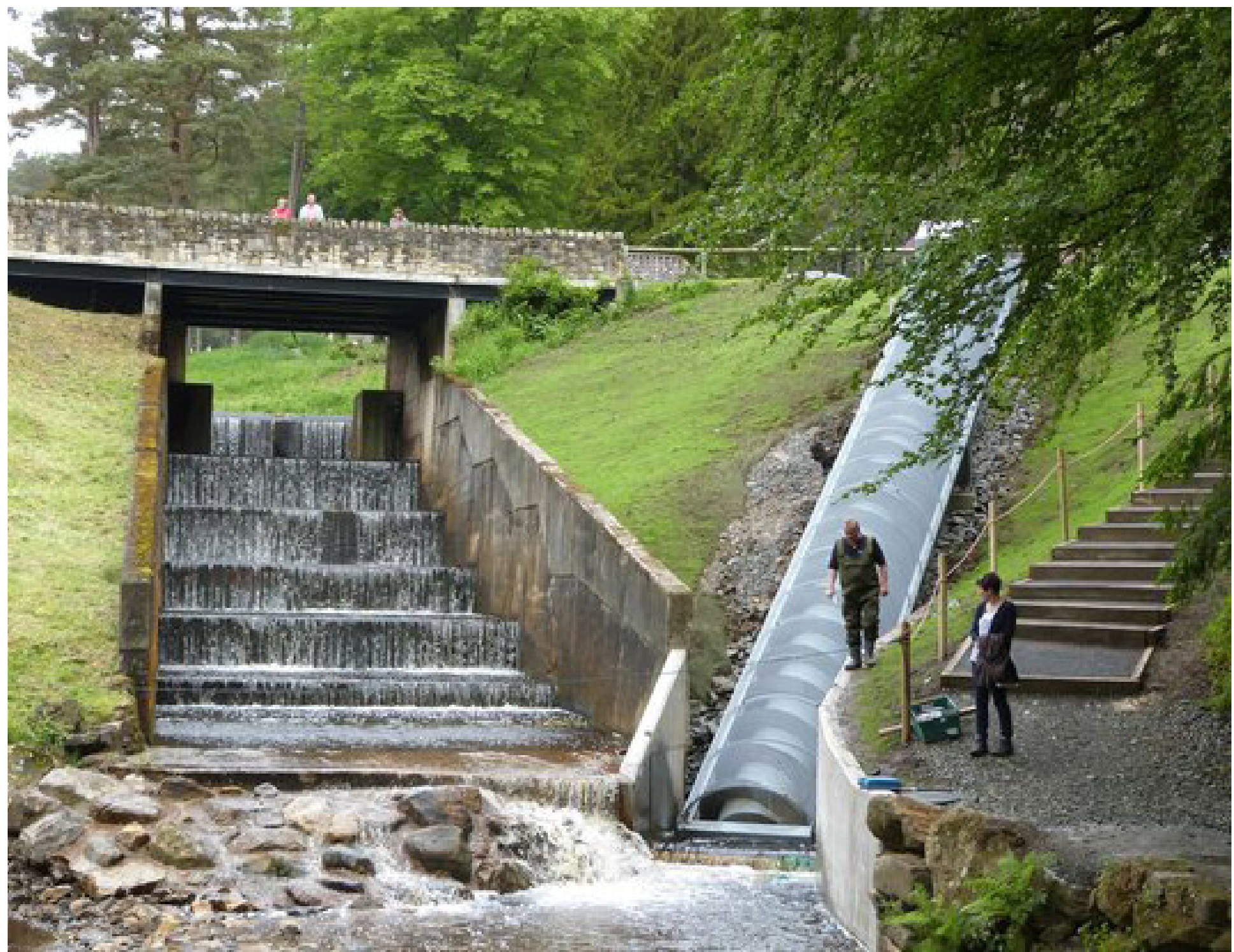
Terraced retention pond filled with native plants and recreational pathways
- 3

Observation Deck, Pavilion, Open-Air Classroom, and Water Literacy Signage
- 4

Wind-driven Archimedes Screw-pumps
- 5

Existing Sugarcane Fields
- 6

Future Cultural Center with Focus on Sugar Cultivation and Water Literacy



Precedent Image of Archimedes Screw Pump and Cascading Water



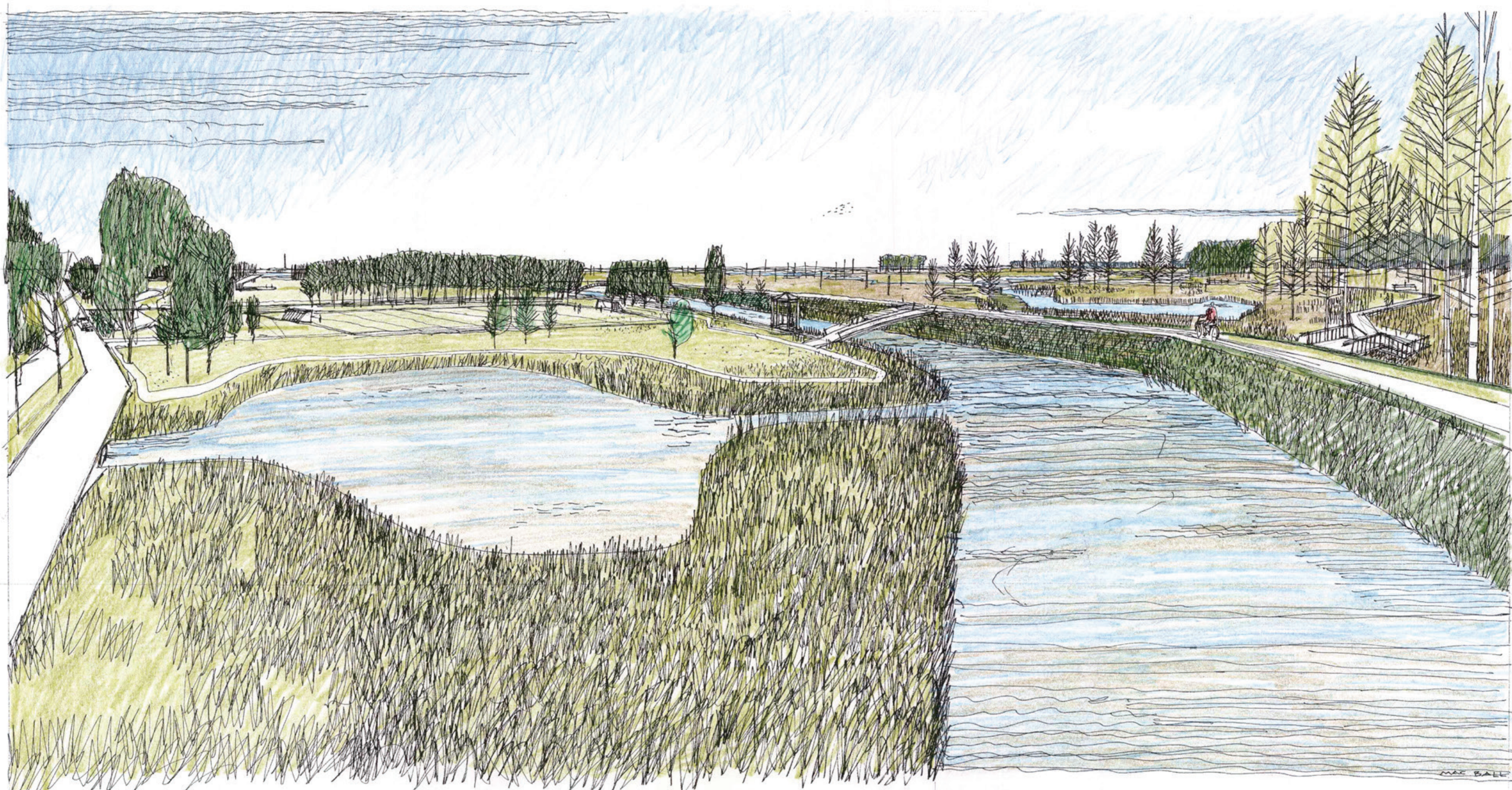
Precedent Image of Archimedes Screw Pump



Precedent Image of Wind Turbine



Precedent Image of Wind-driven Pumping System in St. Landry Parish, Louisiana



Aerial View of Wetland Park & Walking Trails



Precedent Image of Terraced Wetlands



Precedent Image of Wetlands, Boardwalks, and Plantings



Precedent Image of Park Pavilion and Deck



Precedent Image of Seating Area overlooking Wetlands



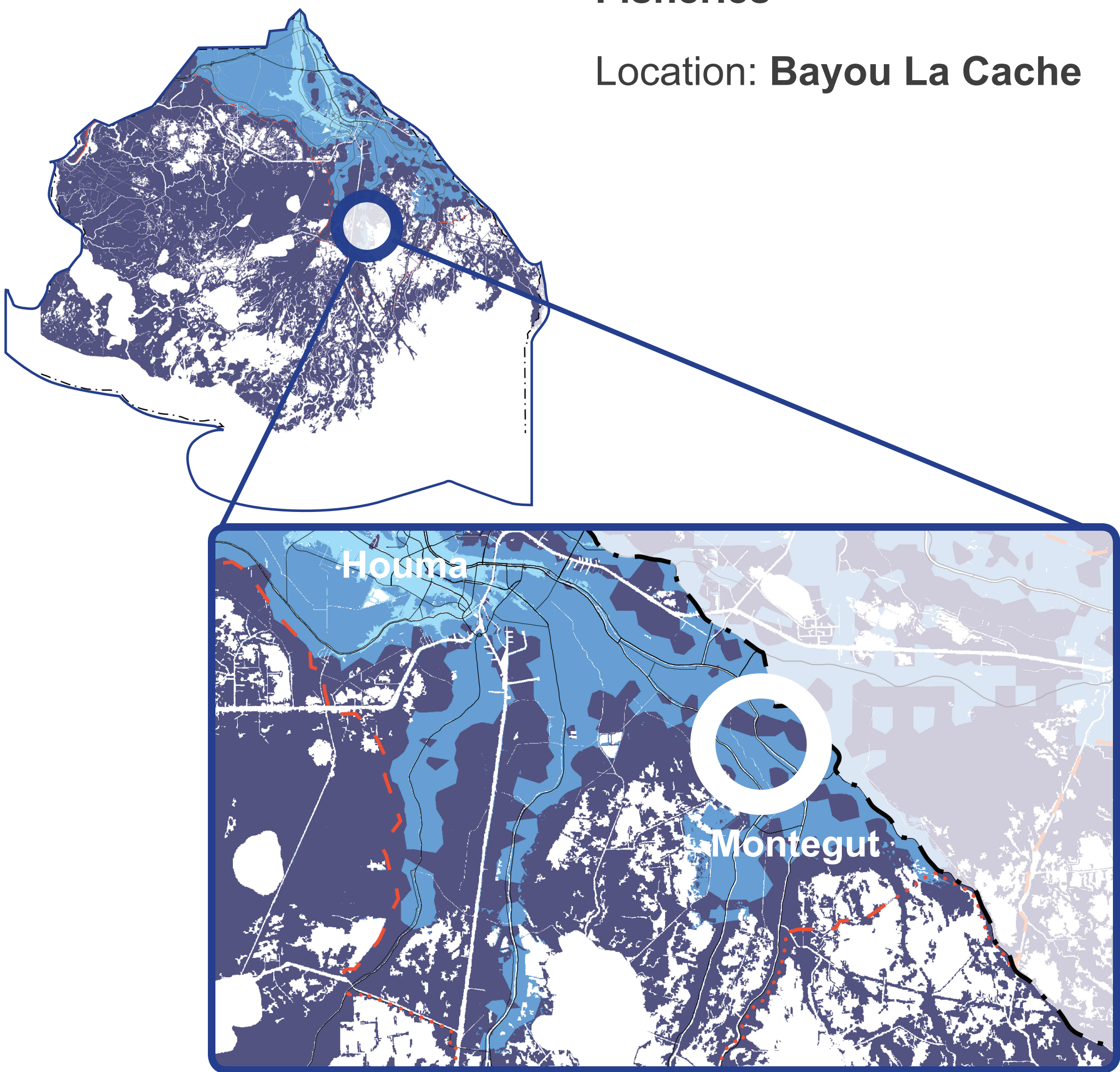
Precedent Image of Seating Area overlooking Wetlands

PROPOSAL

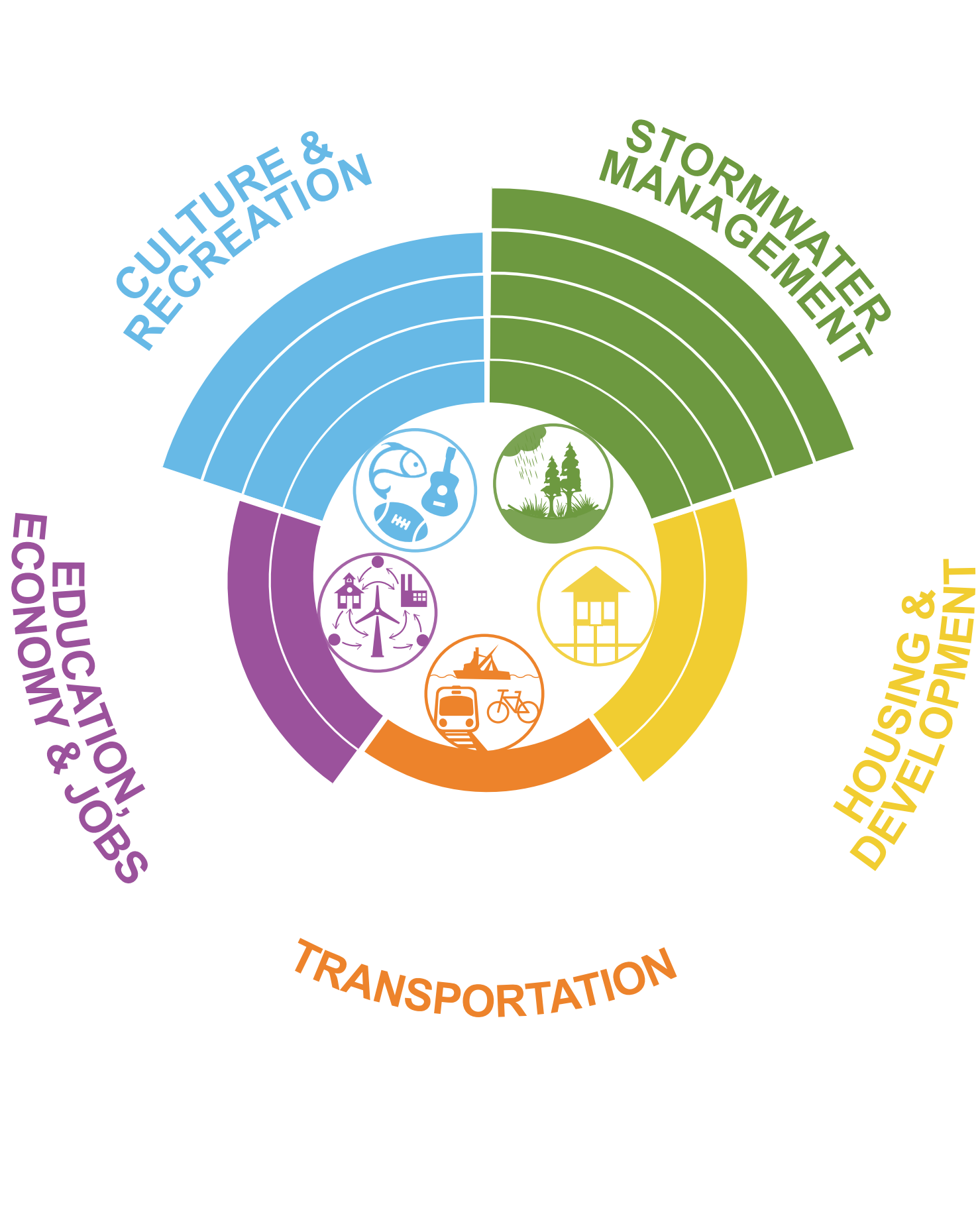
Areas subject to moderate and high future flood risk must consider stormwater management features in addition to current and planned structural protection systems. The Bayou La Cache Wetland Park in the Smith Ridge forced drainage system diverts and temporarily stores water during heavy rain events while providing access from Aragon Road to amenities such as bird and wildlife viewing and walking paths. Increasing the bayou's capacity by using weirs and shut off valves to divert water into existing ponds reduces flood risk down the bayou. The proposed project transforms an existing borrow pit site into a park that slows down the flow of stormwater and provides multiple ecosystem benefits, including stormwater management, water cleansing, recovery of native habitats, as well as creating a public space for education and recreation.

Key Info

Project Area	100 acres
Estimated Project Cost	\$5.4 million
Partners	Terrebonne Levee & Conservation District; Terrebonne Parish; Louisiana Wildlife & Fisheries
	Location: Bayou La Cache



Community Benefits



- Diverts water from the bayou into detention ponds, allows for groundwater recharge, and alleviates loads on the drainage system.
- Potential to reduce flooding for development down the bayou.
- Includes an observation and education platform and open classroom.
- Provides green space, walking paths and habitat.

COMMENTS