RECOVERY AND RESILIENCY PARTNERSHIP PROJECTS

CITY OF MARIANNA KELSON AVENUE STORMWATER

Please visit www.R2P2.skeo.com to comment on these preliminary concepts!

Design Concept: Cascade Approach

This concept proposes a hybrid network to stormwater management that includes traditional drainage (pipes) and natural drainage features to address erosion along Kelson while improving water quality, supporting habitats and wildlife along the Chipola River and providing new recreation opportunities.

The Cascade Approach includes three key components:

A - Stormwater Park

The stormwater treatment pond can serve as both a stormwater management feature and recreation opportunity that includes park amenities and trailhead for the Chipola River greenway.

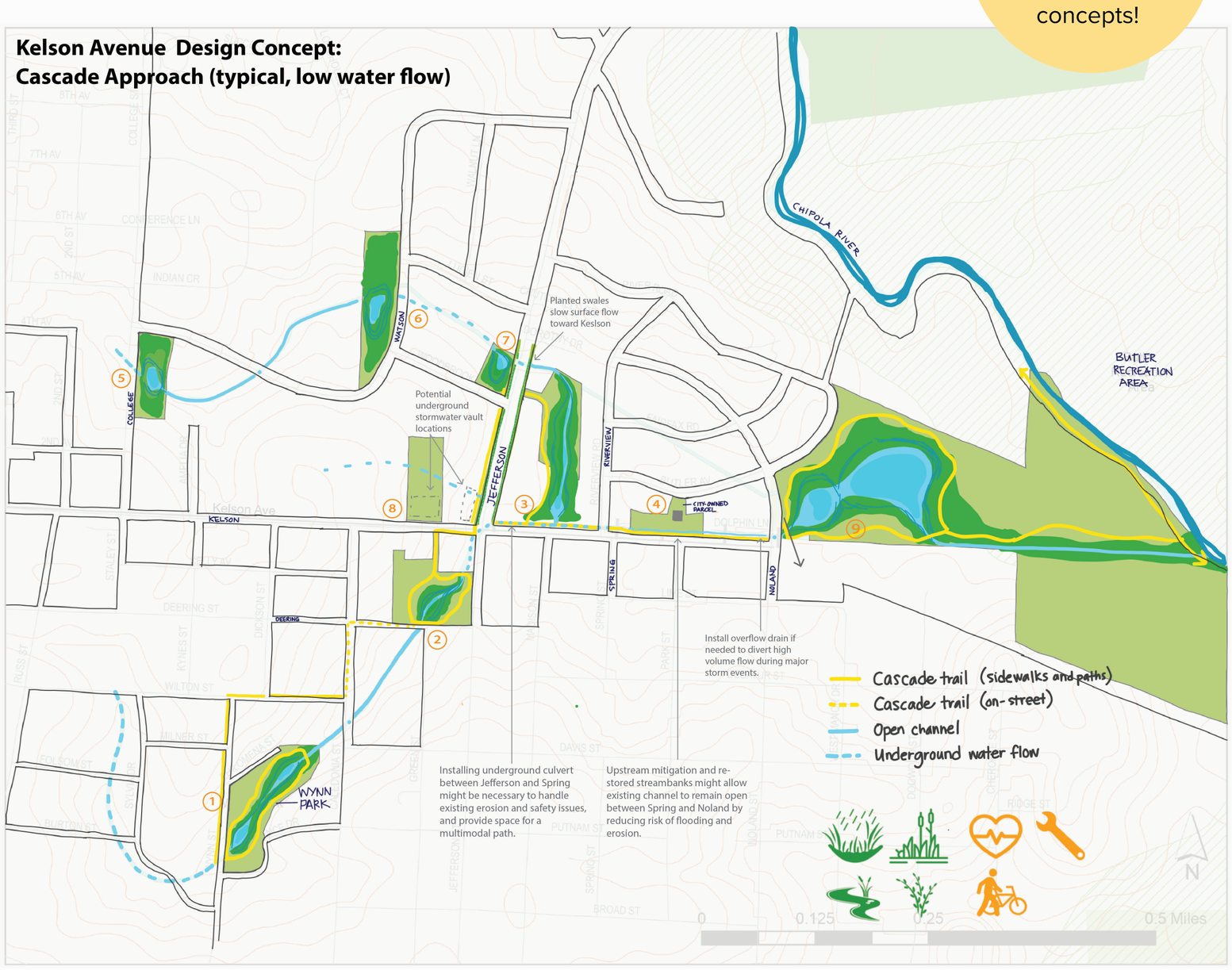
B - Cascade Trail and Greenway Connections

Trails connecting the upstream mitigation network and multimodal pathways from the stormwater park can enhance connectivity to Jackson Hospital and Chipola College.

C - Upstream Mitigation

Identifying potential parcels, right of ways and streets that can help reduce flow upstream might enable natural drainage solutions along Kelson that includes restoring and re-engineering the existing open channel east of Spring.

Examples of bioretention areas and trails in Cascade Park, Tallahassee

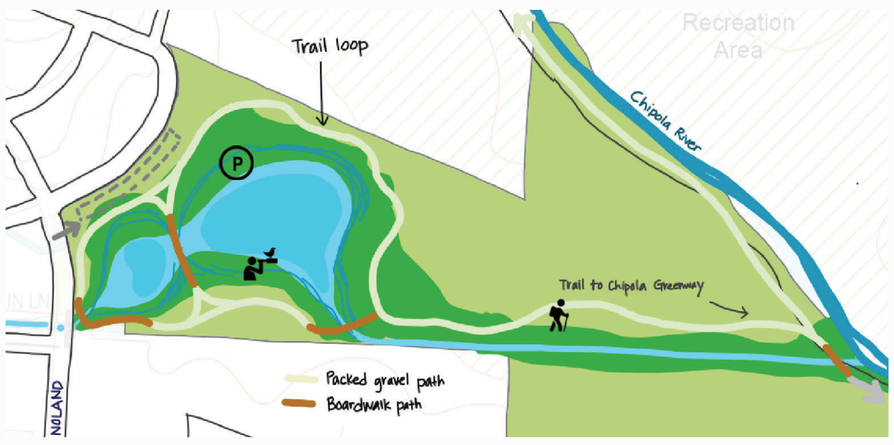


A - Stormwater Park A recreation opportunity

A stormwater park that serves as a trailhead for the Chipola Greenway includes a 1/2 mile trail loop of gravel and boardwalk paths.

Features might include:
- Parking
- Birdwatching
- Fitness
- Gathering areas
- Connection to Chipola Greenway

Existing entry along Noland Avenue

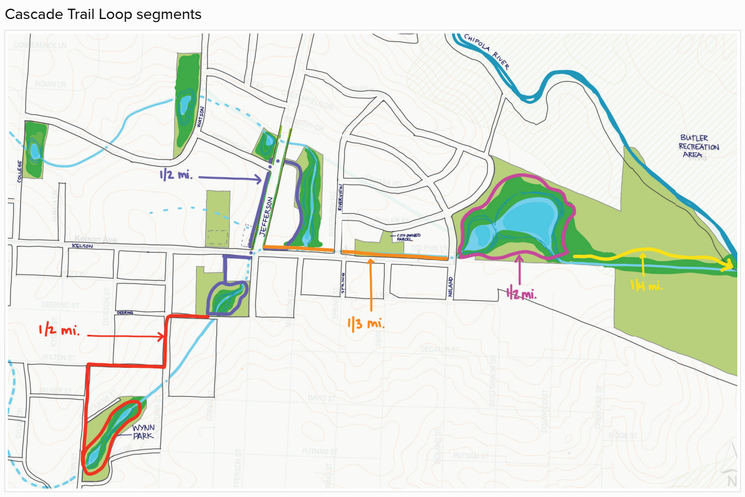


View of proposed stormwater park design and trail

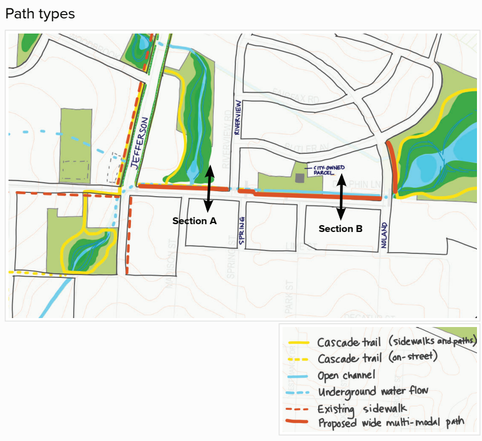
B - Cascade Trail and Greenway Connections

A pedestrian and bike-friendly two mile path follows the upstream mitigation network and joins Kelson Avenue sidewalks to the west and the Chipola Greenway to the east.

Cascade Trail Loop segments



Path types



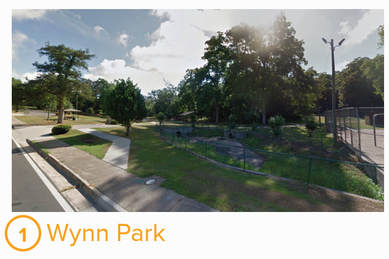
Section diagrams for Kelson multimodal paths between Jefferson and Noland

C - Upstream Mitigation How undeveloped parcels can protect the community and the Chipola River

Natural Drainage - Parcels (1) (2) (3)

Creating bioretention features such as rain gardens on these undeveloped properties can temporarily store water during rain events and improve the aesthetics, safety and recreational amenities in these areas while improving water quality entering the Chipola River.

2 Deering St



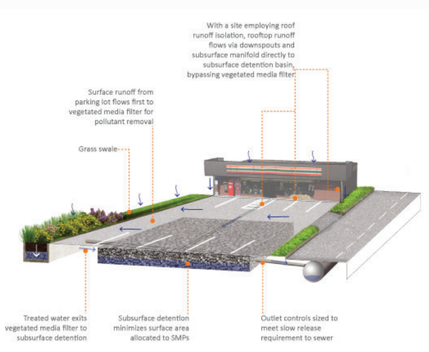
1 Wynn Park

3 Kelson Ave/east of Jefferson St

Underground Stormwater Vault - Parcel (8)

Stormwater vaults can be located under parking lots or other areas. Stormwater vaults hold water temporarily, and release stormwater slowly as flood levels subside. A vault can be installed without restricting development.

8 Kelson Ave/west of Jefferson St

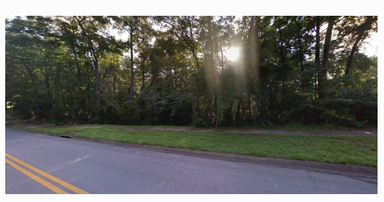


This diagram illustrates how a stormwater vault located under a parking lot operates to store water temporarily.

Existing Natural Drainage - Parcels (5) (6) (7)

These wooded undeveloped parcels currently provide natural drainage benefits by infiltrating and slowing the water flow during rain events.

6 Watson Dr



5 College St

7 Jefferson St

The Recovery and Resiliency Partnership Projects (R2P2) technical assistance is provided by the U.S. Federal Emergency Management Agency (FEMA) Integrated Recovery Coordination (IRC) field operations in partnership with regional, state, and federal agencies to support communities as they recover from Hurricane Michael.