Rocky Branch Enhancement Project





- 1. Process: Principles to Opportunities
- 2. Opportunities: The Synthesis
- 3. Featured Values and Priorities : Program & Precedents
- 4. Rocky Branch: In Three Reaches
- 5. Proposed Scenarios : Scenarios A C, Reach 1-3
- 6. Proposed Scenarios : Western Boulevard Crossing





ROCKY BRANCH ENHANCEMENT PROJECT FEASIBILITY STUDY







Dix Park

CONCEPT DESIGN DRIVERS

SITE INVENTORY

ANALYSIS & OPPORTUNITIES



- Leverage proximity to adjcent assets
- Enhance Gateway potential
- -Enliven park edge
- -Promote connectivity

BUILD FROM WHAT IS THERE -Restoration -Reuse -Rehabilitation -Resiliency -Reflect region's ecosystems

SOMETHING FOR EVERYONE

-Celebrate Dix Park's cultural landscapes -Create "Nature Escapes" -Dynamic spaces



Surface NOVEMBER 2023









CP NOVEMBER 2023



CA NOVEMBER 2023



CR NOVEMBER 2023



Overall Program

Dix Park















Stream, Stormwater, and Hydrology -Scenario A

Stream Alignment

- Optimizes alignment & maximizes stream restoration, increases stream meander
- Raises reach 1 elevation by 5'

Flood Plain Improvements

- Provides floodplain bench
- Enhances floodplain in key locations

Stormwater Management

- Maximizes stormwater management opportunities
- Provides treatment for Western Blvd & future BRT
- Creates opportunities for access and

Legend



- Proposed Wet Pond/ Wetland Proposed Floodplain Bench Proposed Stream
- Stormwater Flow
- Surface Flow
- Stream Realignment & Restoration
- Enhanced in Place











- Stream Optimal alignment & stream elevation
 - Earthwork/ Environmental Most significant
 - Stormwater Maximizes stormwater
 - **Circulation** Maximizes pathways & connections
 - Engagement Maximizes engagement and integration with adjacent program

Rocky Channel

Boylan Ave. Intrance

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Stormwater Wetland Existing & Refined Forest Cover

High Point with a View

and the second

Pedestrian and Stream Railroad Passage

Stormwater Dissipation Pools

Stormwater Treamtment & Parking

Dix Park

Tate Drive

1

Stormwater Dissipation utilizing Existing Topography Rocky Branch Branch

Western Boulevard

Western Boulevard

Remediatory

Edge



Garden

Stream – Optimal alignment & stream elevation

- Earthwork/ Environmental Most significant impact
- Stormwater Maximizes stormwater

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Stormwater Walk

Perchec

Wetland

- Circulation Maximizes pathways & connections
- Engagement Maximizes engagement and access with stream

Perched Wetlands







Stream, Stormwater, and Hydrology -Scenario B

Stream Alignment

- Slightly improves alignment, enhances stream
- Maintains existing stream elevation
- Maintains alignment at Central Prison

Flood Plain Improvements

- Provides floodplain bench
- Enhances floodplain in key locations

Stormwater Management

- Slightly reduces stormwater management opportunities from Scenario A

Legend



- Proposed Wet Pond/ Wetland Proposed Floodplain Bench Proposed Stream
- Stormwater Flow
- Surface Flow
- Stream Realignment & Restoration
- Enhanced in Place







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Stream, Stormwater, and Hydrology -Scenario C

Stream Alignment

- Slightly improves alignment, enhances stream
- Maintains existing stream elevation
- Maintains alignment at Central Prison

Flood Plain Improvements

- Provides floodplain bench
- Enhances floodplain in key locations

Stormwater Management

- Slightly reduces stormwater management opportunities from Scenario B

Legend



- Proposed Wet Pond/ Wetland Proposed Floodplain Bench Proposed Stream
- Stormwater Flow
- Surface Flow
- Stream Realignment & Restoration
- Enhanced in Place

Dix Park









- Stream Maintains existing alignment, enhances stream & floodplain
- Earthwork/ Landfill Reduces impact from Scenario B
- Stormwater –Significant stormwater opportunity, slightly reduced from
- Circulation Slightly reduces number of pathways from Scenario B
- Engagement Consolidates engagement & access opportunities

Full Length/ Width Landbridge This bridge design includes a 100' wide Landbridge that crosses from the south side of Rocky Branch to the north side of Western Blvd

Master Plan ٠

This bridge design is the most consistent with the vision of the Master Plan

Design

This bridge design consists of three concrete arch supports and deck, deep soil media in locations to successfully sustain vegetative cover, meandering pathways that create not only circulation, but gathering spaces to make the bridge a landscape that is truly unique





Bridge B

Partial Landbridge & Pedestrian Bridge
 This bridge design includes a 60' wide
 section of landbridge crossing Western
 Blvd that transitions into a series of
 multi-tiered steel truss pedestrian
 bridges crossing Rocky Branch Creek

Master Plan

This bridge design includes concepts that are very consistent with the vision of the Master Plan yet adapts them to design that is more porous as it crosses the creek, intending to maximize daylighting of Rocky Branch

Design

Consists of three concrete arch supports and deck, deep soil media in locations to successfully sustain vegetative cover, meandering pathways and gathering spaces

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Bridge C

• Full Length Pedestrian Bridge This bridge design includes a 15-20' wide steel pedestrian bridge that crosses from the south side of Rocky Branch to the north side of Western Blvd

• Master Plan

This bridge deviates most significantly from the vision of Master Plan. While it provides pedestrian connectivity it does not have any living bridge components

Design

This bridge design consists of a prefabricated steel truss bridge







Next Steps

How do we continue to move the Rocky Branch project forward?

- Upcoming grant applications
 - Land & Water Fund- February 15
- Discussion of priority projects and use of bond funding \$3.375M (e.g., Creek and Grove)
- Discussion of project delivery method