

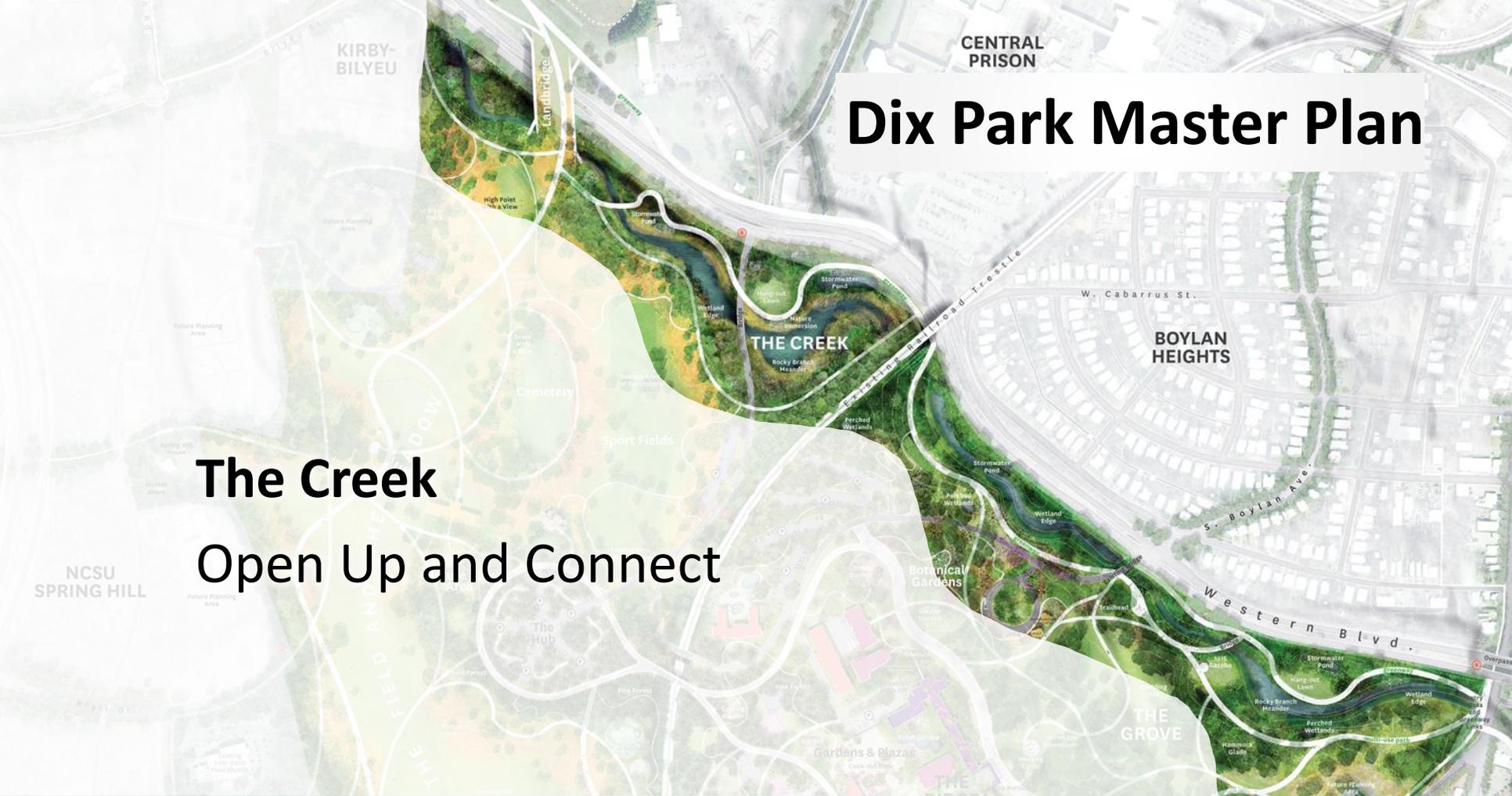
# Rocky Branch Feasibility Study





# Dix Park Master Plan

## The Creek Open Up and Connect



# Rocky Branch Enhancement Project

## Feasibility Study Objectives

- Identified Key Agency Partners & Project Stakeholders
- Site Survey of Existing Conditions
- Analysis of Site History and Ecology
- Feasibility of Various Concepts (including Master Plan Vision) and options for the Bridge Crossing

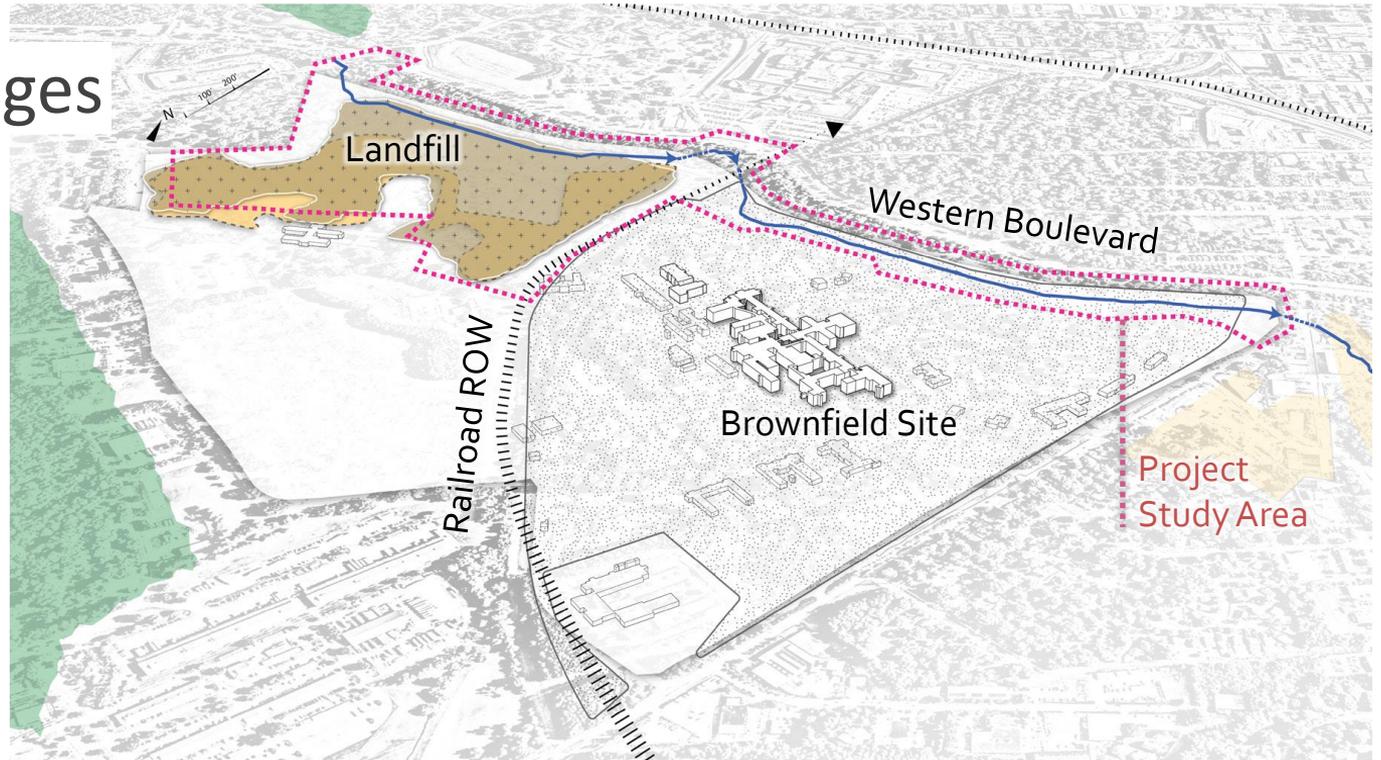
# Rocky Branch Enhancement Project

## Project Goals

- Restore Habitat & Ecology
- Widen Creek Floodplain and Mitigate Flood Impacts
- Improve Water Quality
- Showcase Piedmont Ecology
- Connect visitors with Rocky Branch
- Create bicycle and pedestrian amenities

# Rocky Branch Enhancement Project

## Key Challenges



# Rocky Branch Enhancement Project

## Three Concepts (Kit of Parts)

### A. Full Master Plan Implementation

- Land Bridge and pulling Rocky Branch inside the park

### B. Creek Restoration

- “Green Bridge,” realignment of most of the creek

### C. Creek Enhancement

- Pedestrian Bridge, improved creek channel and banks

# Rocky Branch Reaches



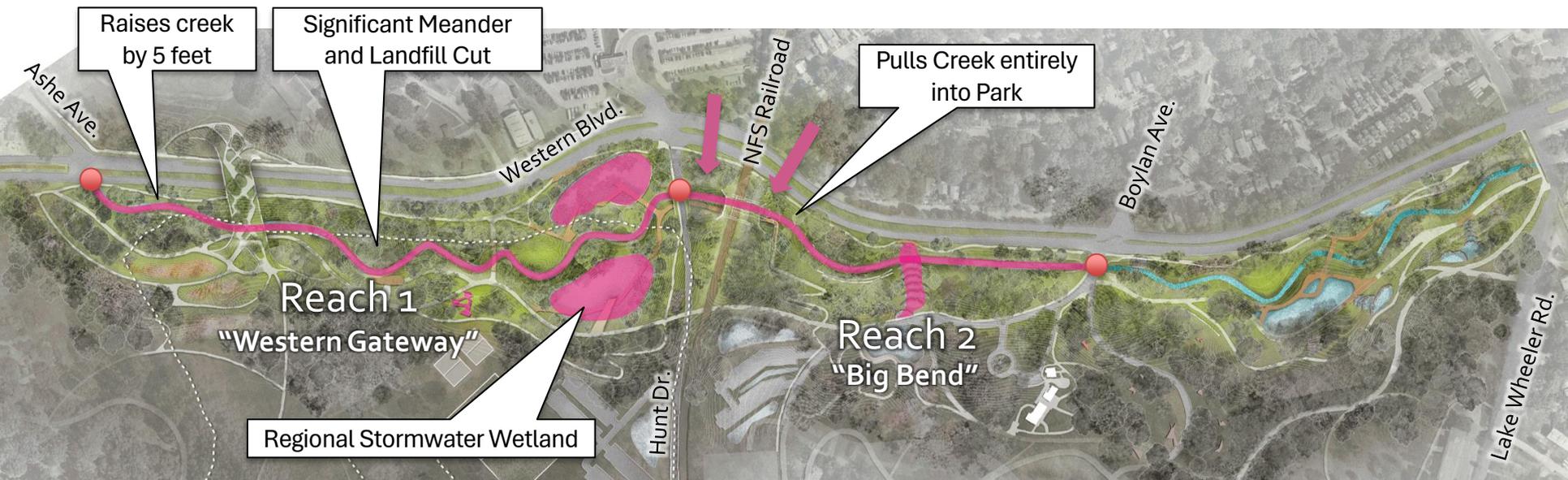
# Concept A: Full Master Plan Implementation



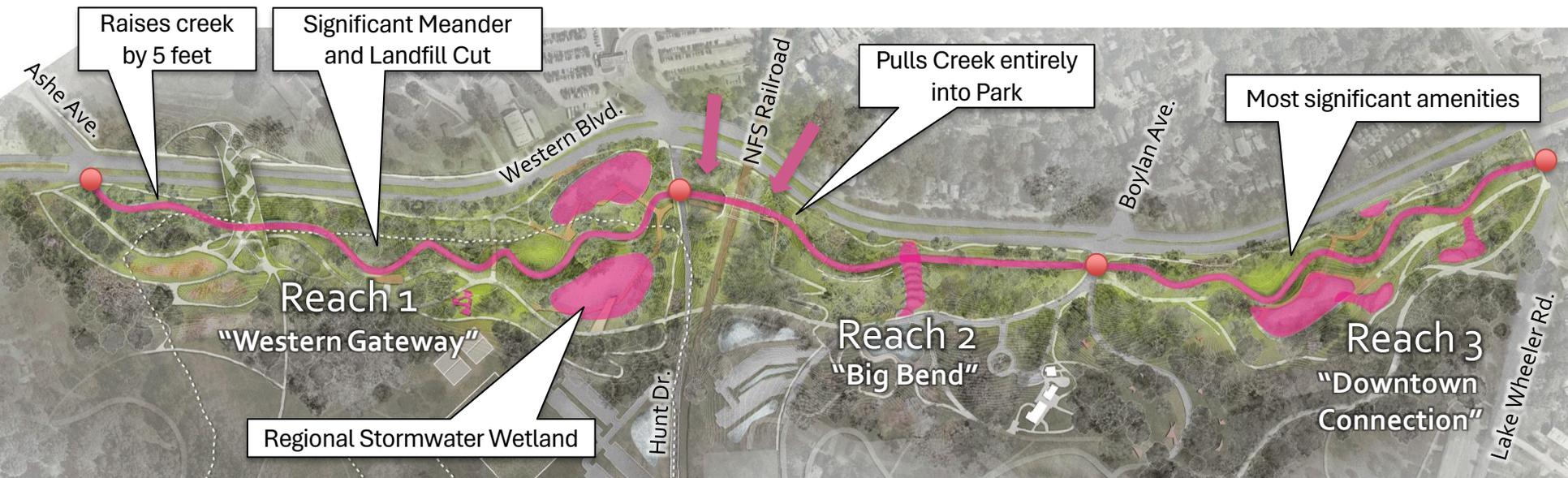
# Concept A: Full Master Plan Implementation



# Concept A: Full Master Plan Implementation



# Concept A: Full Master Plan Implementation



# Concept B: Creek Restoration



# Concept B: Creek Restoration



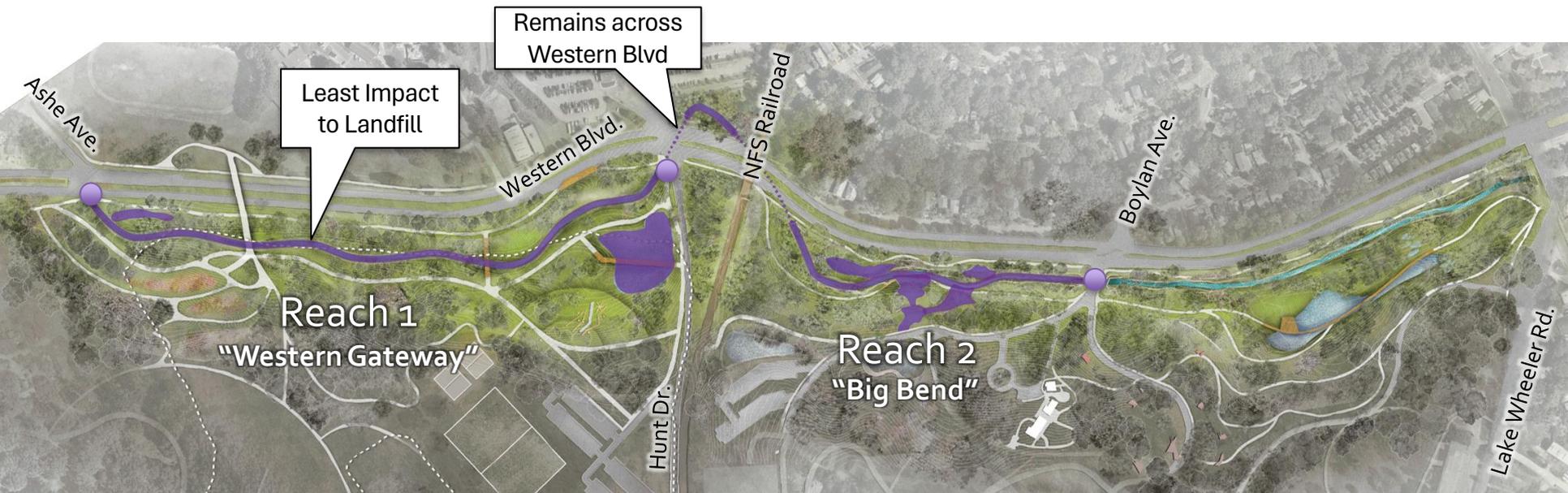
# Concept B: Creek Restoration



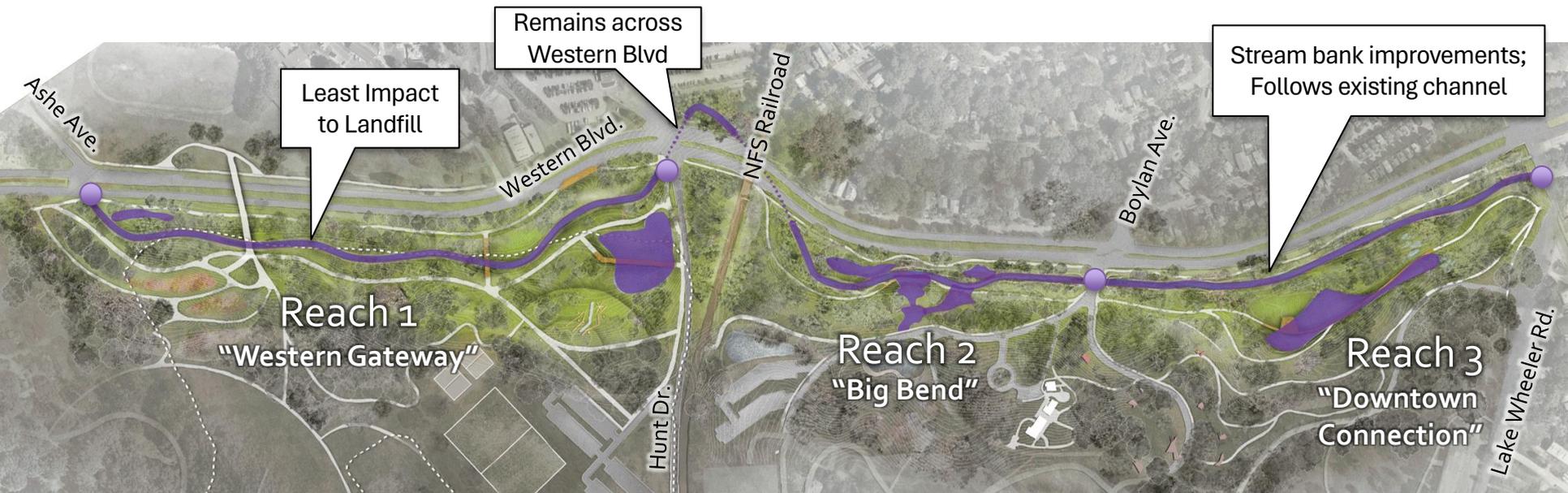
# Concept C: Creek Enhancement



# Concept C: Creek Enhancement



# Concept C: Creek Enhancement



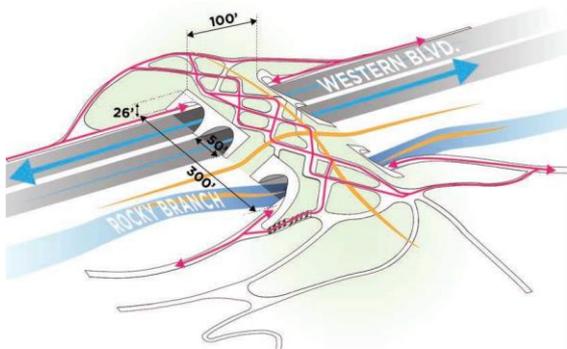
# All Concepts Meet Project Goals

- ✓ Restore Habitat
- ✓ Widen Creek Floodplain and Mitigate Flood Impacts
- ✓ Improve Water Quality & Ecology
- ✓ Showcase Piedmont Ecology
- ✓ Connect visitors with Rocky Branch
- ✓ Create bicycle and pedestrian amenities

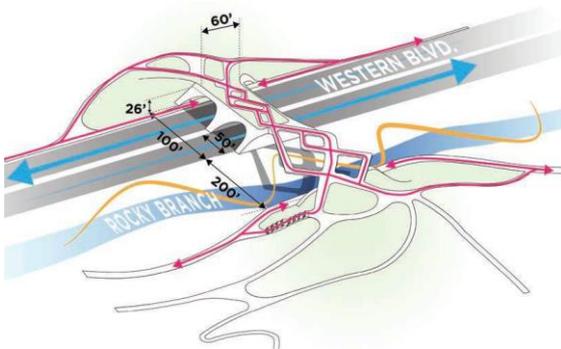


# Bridge Options

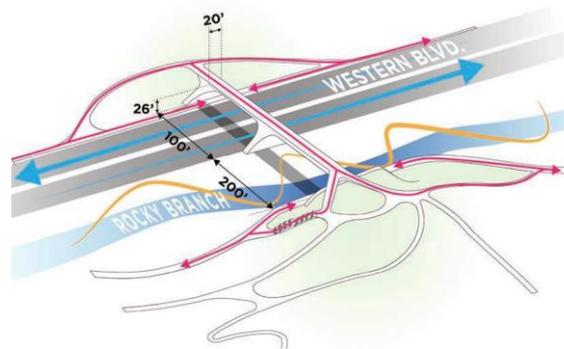
Concept A – Land Bridge



Concept B – Green Bridge



Concept C – Pedestrian Bridge



# Rocky Branch Enhancement Project

## Probable Costs: Concept A

Stream	Bridge	Earthwork	Stormwater	Paths Bridges	Amenity Space
\$3,650,000	\$25,000,000	\$49,900,000	\$8,145,000	\$24,608,000	\$5,800,000

Total: \$177,103,000

# Rocky Branch Enhancement Project

## Probable Costs: Concept B

Stream	Bridge	Earthwork	Stormwater	Paths Bridges	Amenity Space
\$3,210,000	\$20,000,000	\$37,300,000	\$6,285,000	\$7,665,000	\$4,340,000

Total: \$78,800,500

# Rocky Branch Enhancement Project

## Probable Costs: Concept C

Stream	Bridge	Earthwork	Stormwater	Paths Bridges	Amenity Space
\$2,950,000	\$15,000,000	\$34,300,000	\$4,435,000	\$4,850,000	\$3,940,000

Total: \$65,475,500

# Recommendation: Scope and Phasing

- **Reach 1 - Western Connection:** Concept C, Bridge B
- **Reach 2 - The Bend:** Concept B
- **Reach 3 - The Downtown Gateway:** Concept B



# Recommendation: First Phase Probable Cost

## “Downtown Gateway,” Concept B

Stream	Land Bridge	Earthwork	Stormwater	Paths Bridges	Amenity Space
\$1,200,000	n/a	\$1,710,000	\$2,810,500	\$1,700,000	\$1,250,000



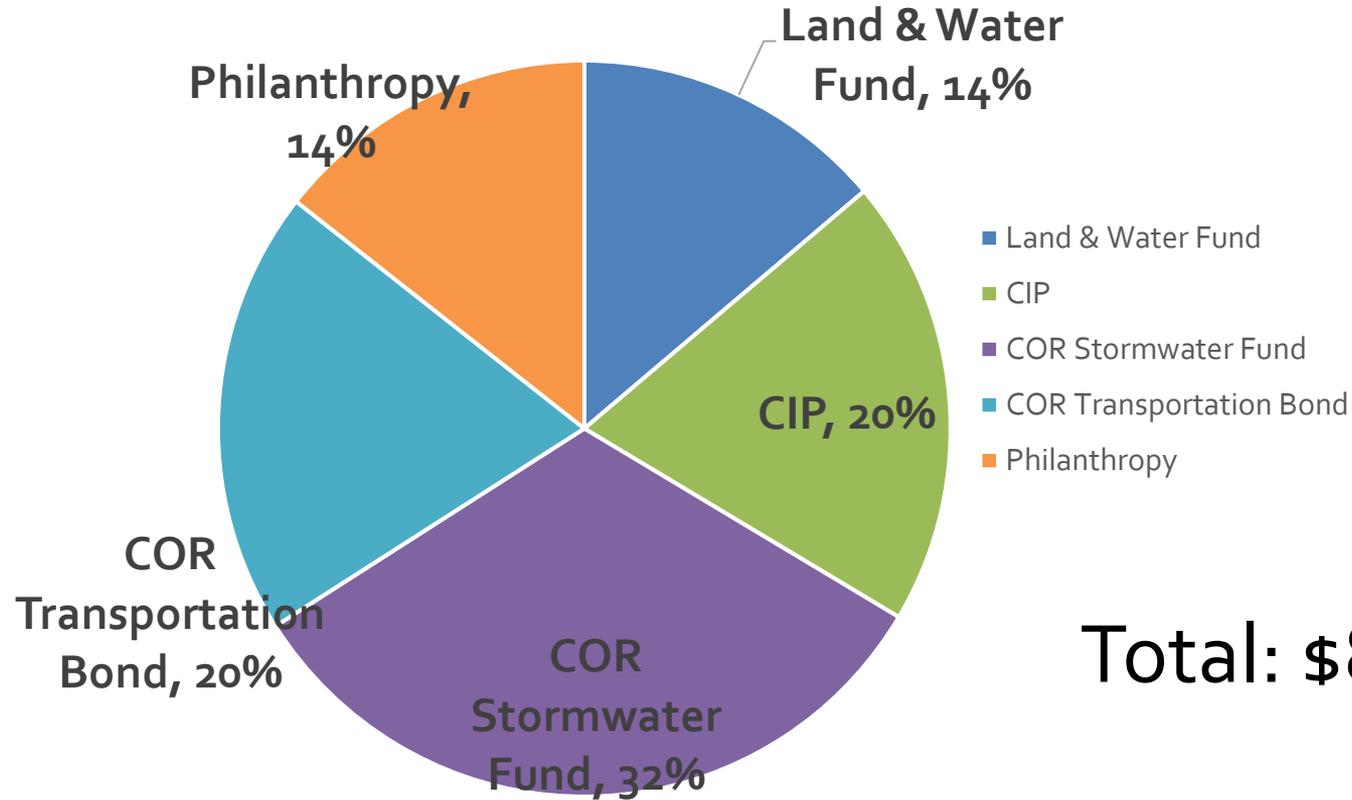
Total: \$8,670,500

# Potential Funding Strategy/Sources

	Stream	Land Bridge	Earthwork	Stormwater	Paths Bridges	Amenity Space
	\$1,200,000	n/a	\$1,710,000	\$2,810,500	\$1,700,000	\$1,250,000
Potential Funding Source:	Land & Water Fund Grant		COR CIP	COR Stormwater Fund & Grants	COR Transportation Bond	Philanthropy

Total: \$8,670,500

# Potential Funding Strategy/Sources



Total: \$8,670,500

# Expand to include design of The Grove



**Recommendation: Advance design of the Downtown Gateway (Reach 3) of the Creek and Grove as Phase II Project Priorities.**

**Funding Source: 2022 Parks Bond**

# Rocky Branch Enhancement Project

## Next Steps

1. Continued public engagement
  1. Popular table at February's Project Summit - Complete
  2. April: Community Committee and City Greenways Committee
  3. June: Conference Session Presentation to NC Chapter of American Society of Landscape Architects
  4. Volunteer events: clean up and invasive removal
2. Funding
  1. 2022 Parks Bond
  2. LWF Application Status
  3. Future fundraising opportunities