Bringing People to the Water.

Clear Creek Canyon Park's Big Easy Recreation Area





Presentation Team:

- Scot Grossman
 Projects Team Supervisor
 Jefferson County Open Space
 Jefferson County, Colorado
- Moneka Worah
 Principal and Biologist
 ERO Resources
 Lakewood, Colorado
- Paul Thomas
 Principal and Landscape Architect
 Stream Landscape Architecture and Planning Denver, Colorado



Project Team:

- Jefferson County Open Space
- CEl Construction
- Muller Engineering
- Yeh and Associates
- ERO Resources
- Stream Landscape Architecture
- 105 West Survey
- Zozo Public Relations
- Summit Engineering



Presentation Agenda

- The Big Picture: The Big Easy and the P2P Trail Project
- 2. Moving a Highway
- 3. Prebles! Working Through a T&E Species Finding
- 4. Designing to Bring People to the Water





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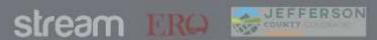


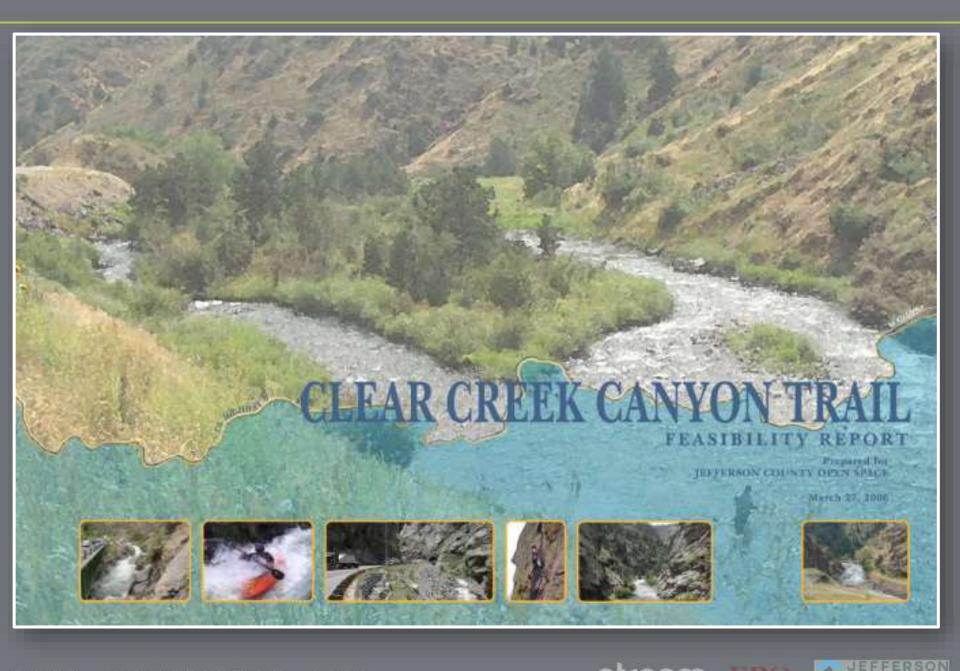




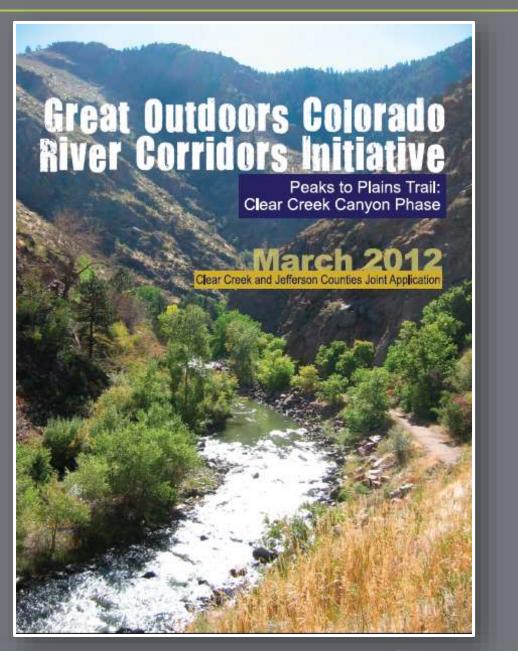






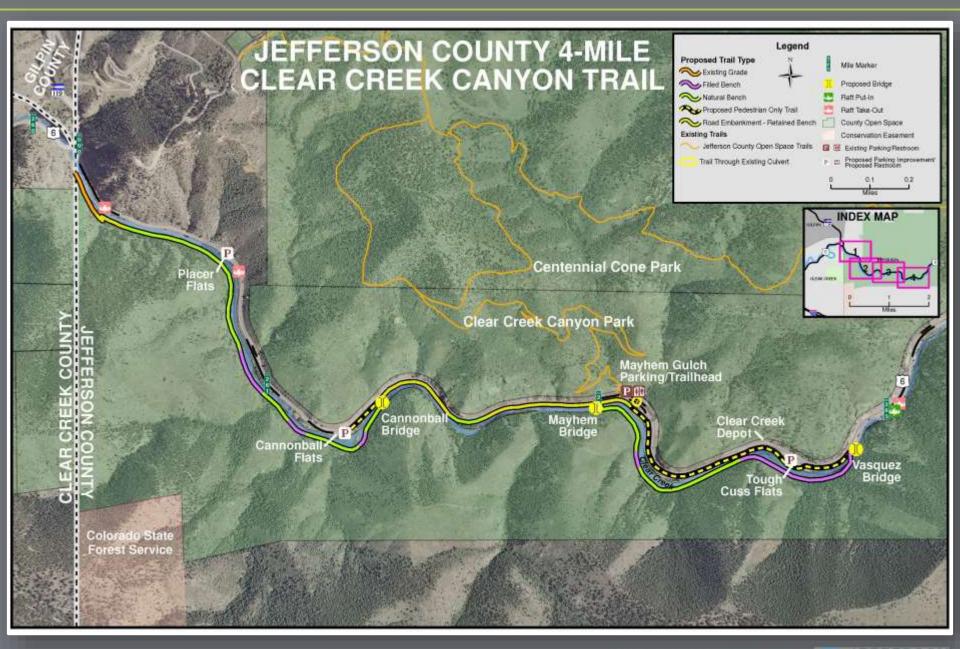






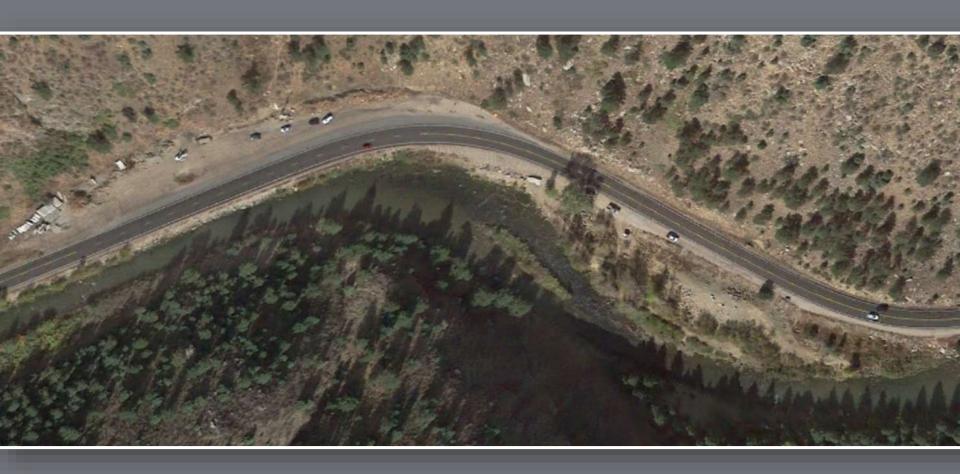














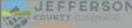


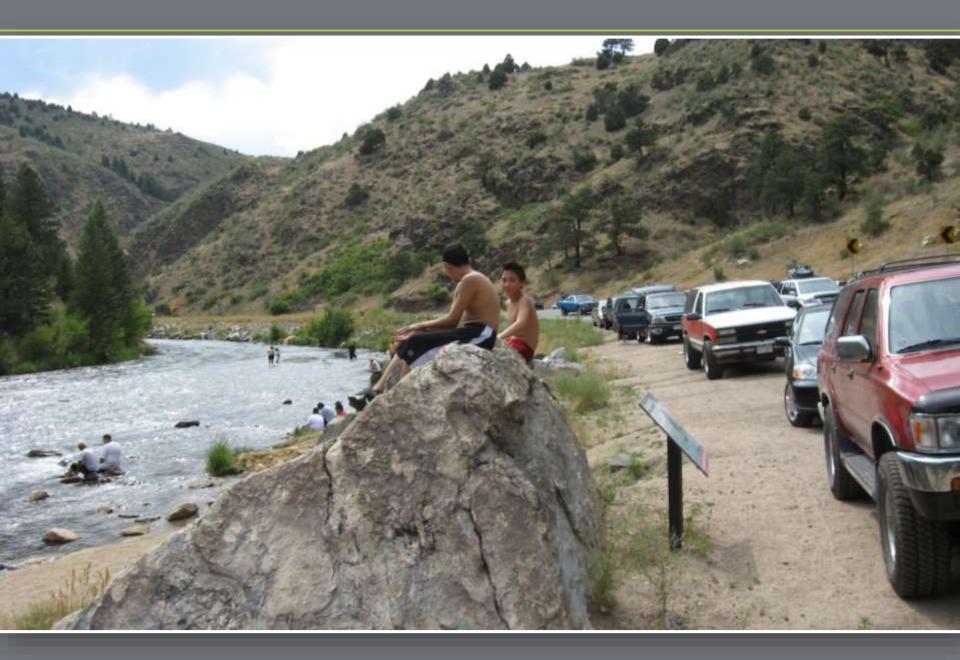




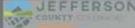






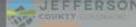






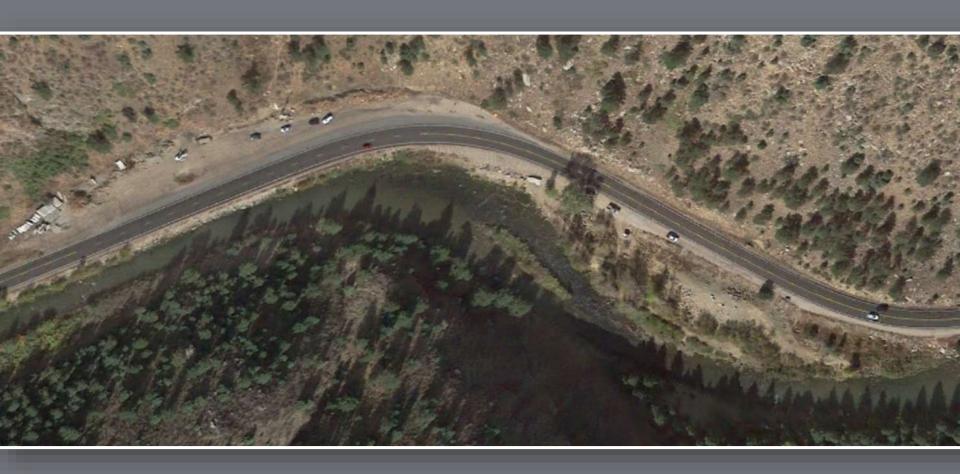


















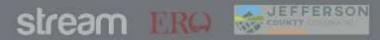










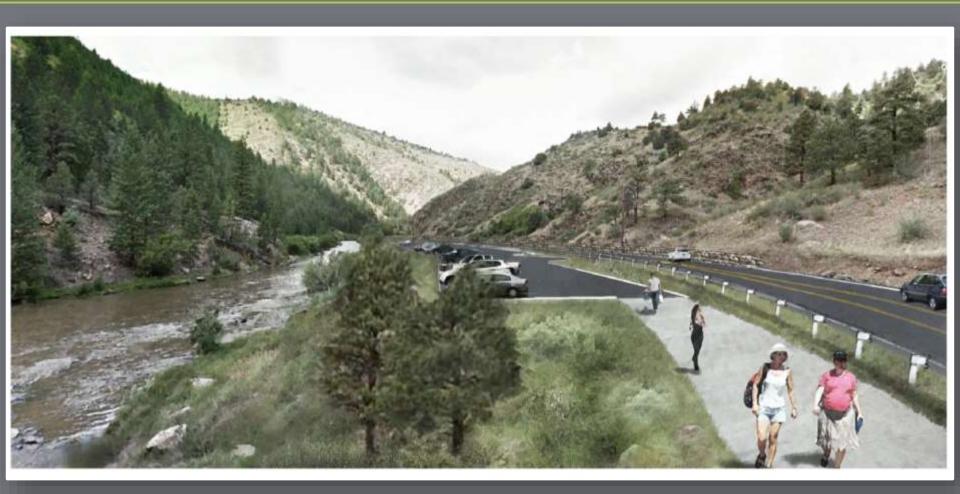




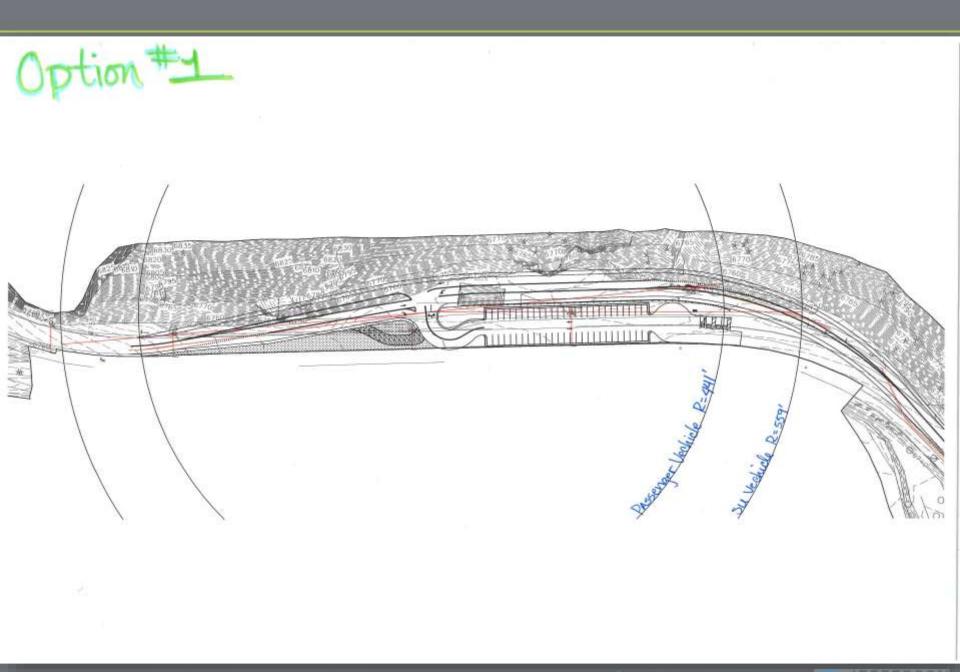




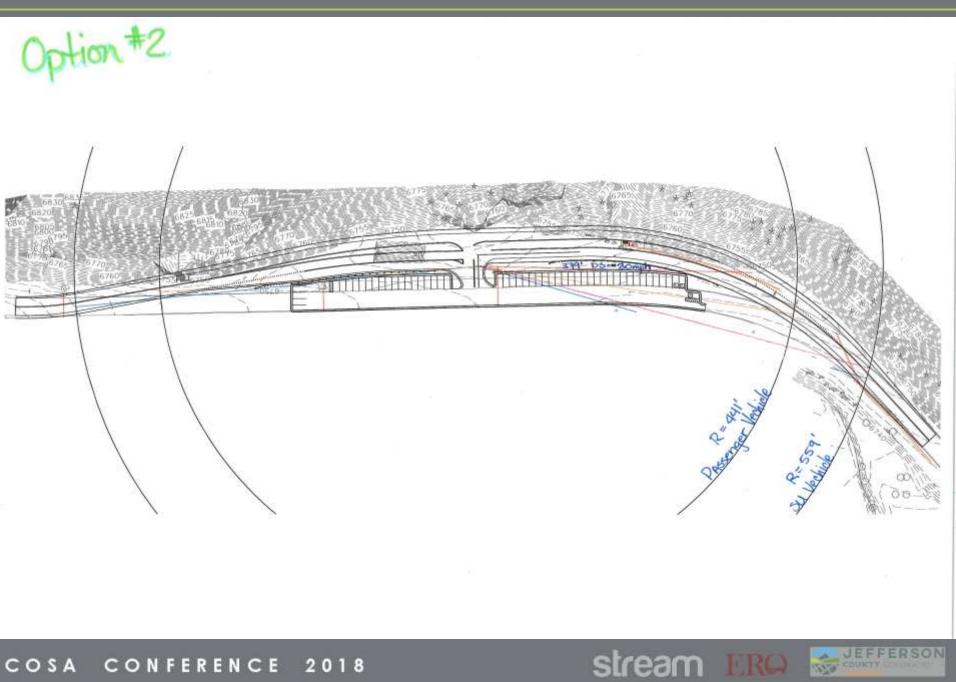


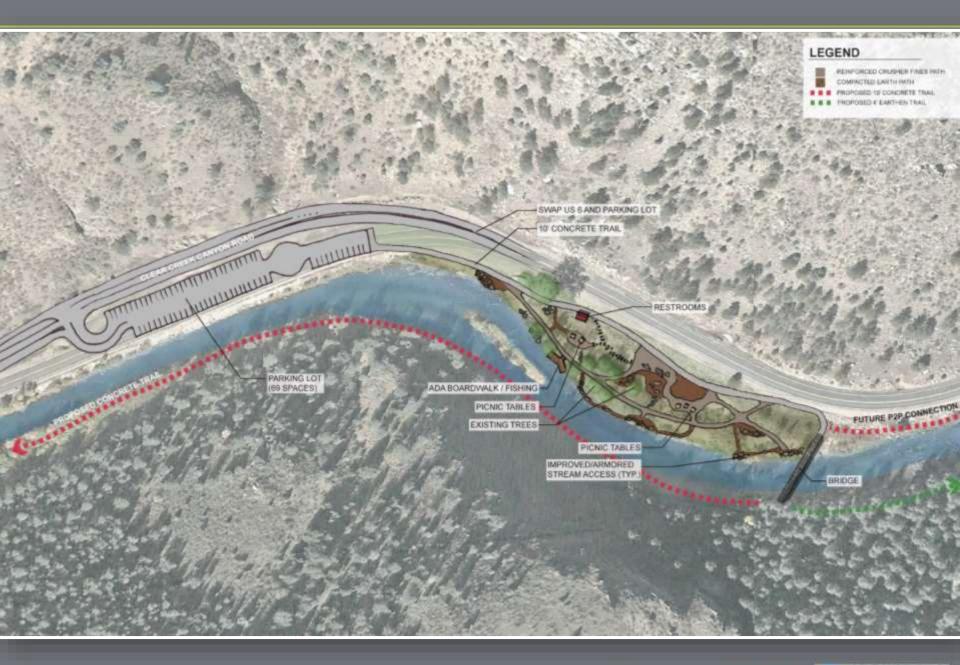




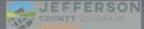


stream ERC SCREEPERSON













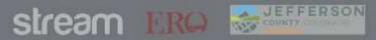












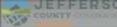


















Environmental Constraints and Opportunities

Balancing Recreation with the Environment









Environmental Permitting

- Clean Water Act Section 404 Permit
- Colorado Department of Transportation Access Permit
- Biological Assessment/Biological Opinion



What is a Preble's Jumping Mouse?

- Found in 1899 in Colorado by Edward Preble
- Endemic to riparian habitats of CO and WY
- Found nowhere else in the world



Preble's Preferred Habitats

- Riparian areas with upland
 grasslands adjacent
- Dense, herbaceous or woody vegetation near ground level
- Foraging and hibernation areas
- Open water during the active season
- Refugia from flooding

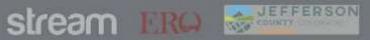




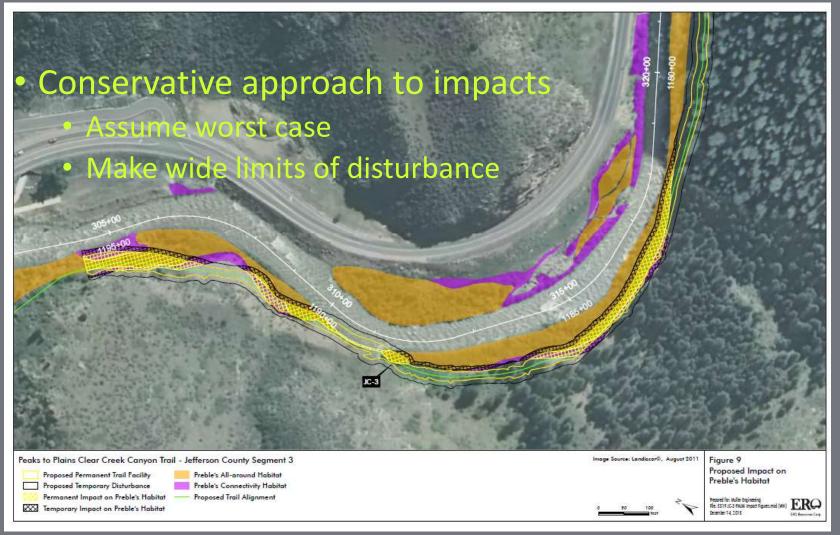
Permitting Process







Estimating Impacts



JEFFERSON

stream ERQ

Proposed Mitigation

Proposed combination of on-site and offsite habitat

- On-site limited to canyon setting
 - Coal Creek and Ralston Creek reviewed for off-site mitigation





Big Easy Habitat







Habitat Protection

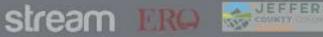






Habitat Enhancement





Habitat Creation







Protect, Enhance, Create







Bringing People to the Water Project Objectives

Trailhead and parking lot for P2P Trail
A destination recreation area
Enhanced natural resource



Bringing People to the Water Key Challenges

Limited space (1.5 acre)
Busy adjacent highway
Wild river
Seriously degraded site
Mitigation for Preble's Mouse



Design Objectives

• Enhance the resource—mitigate previous impacts



Placer Mining



Design Approaches

• Enhance the resource—mitigate previous impacts







Design Approaches

• Enhance the resource—mitigate previous impacts







Design Approaches

• Enhance the resource—minimize new impacts



Water Access Points

Social Trails



• Enhance the resource by protecting valuable habitat





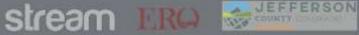


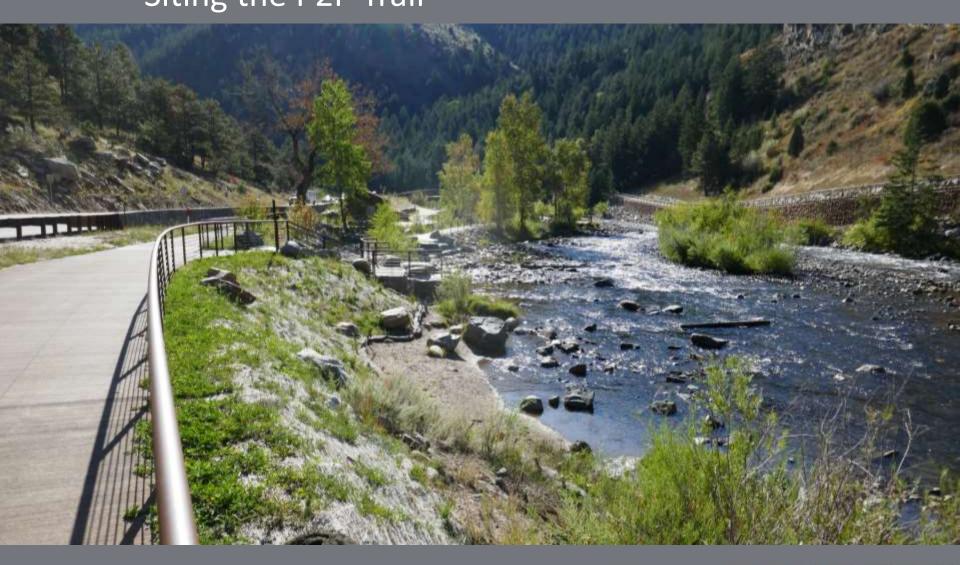






















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• Siting the P2P Trail













Design Approaches

• Creating a destination recreation area

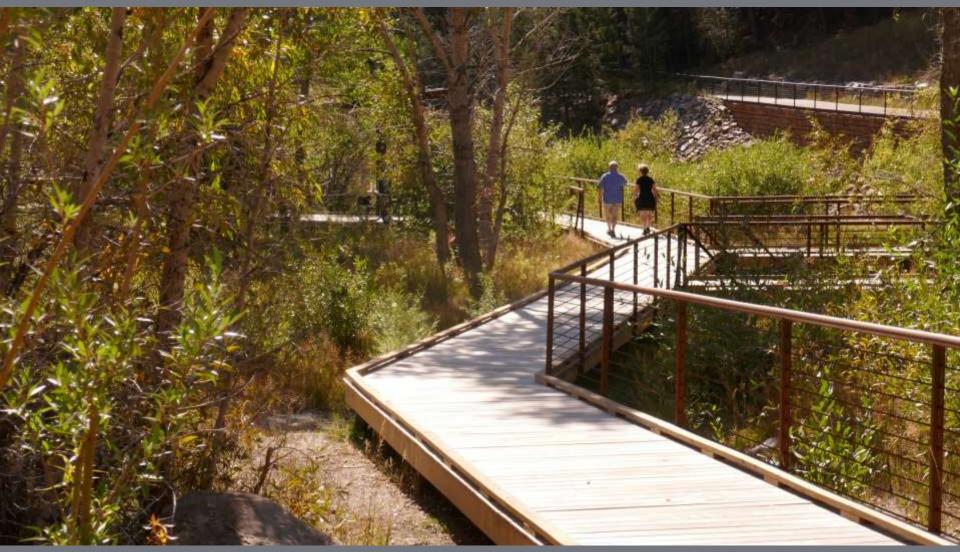






Design Approaches

• Trails, boardwalks and overlooks











Design Approaches

• Trails, boardwalks and overlooks







• Water access







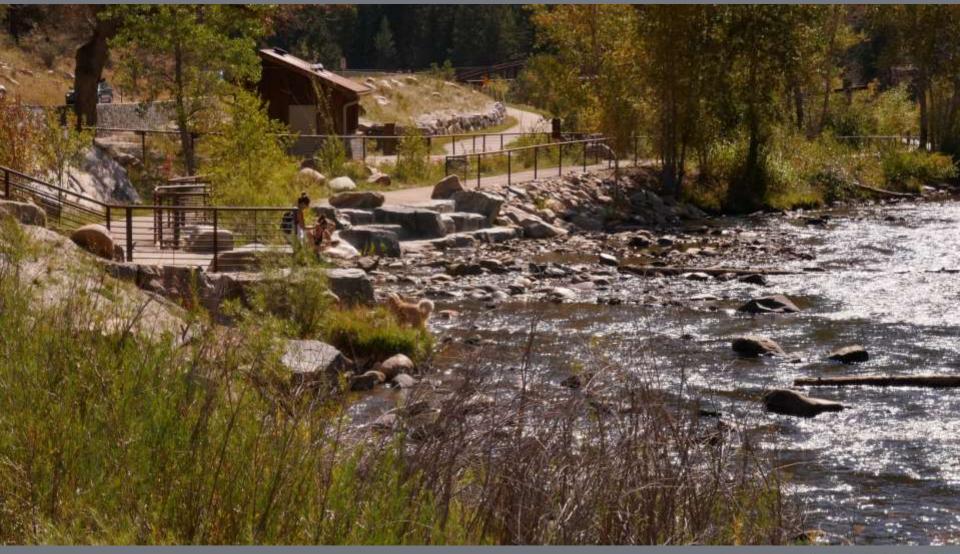
• Water access







• Water access





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CONTRACTOR OF ME



Bringing People to the Water Design Approaches • Water access









Bringing People to the Water Design Approaches • Water access









Bringing People to the Water **Design Approaches** • Water access

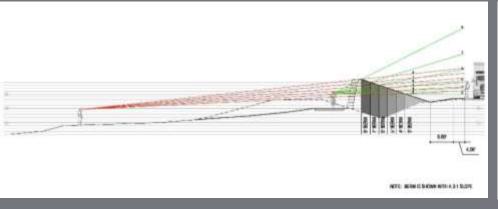


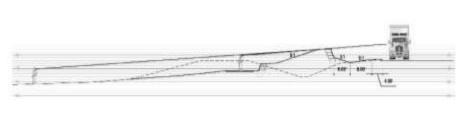




• Mitigate highway









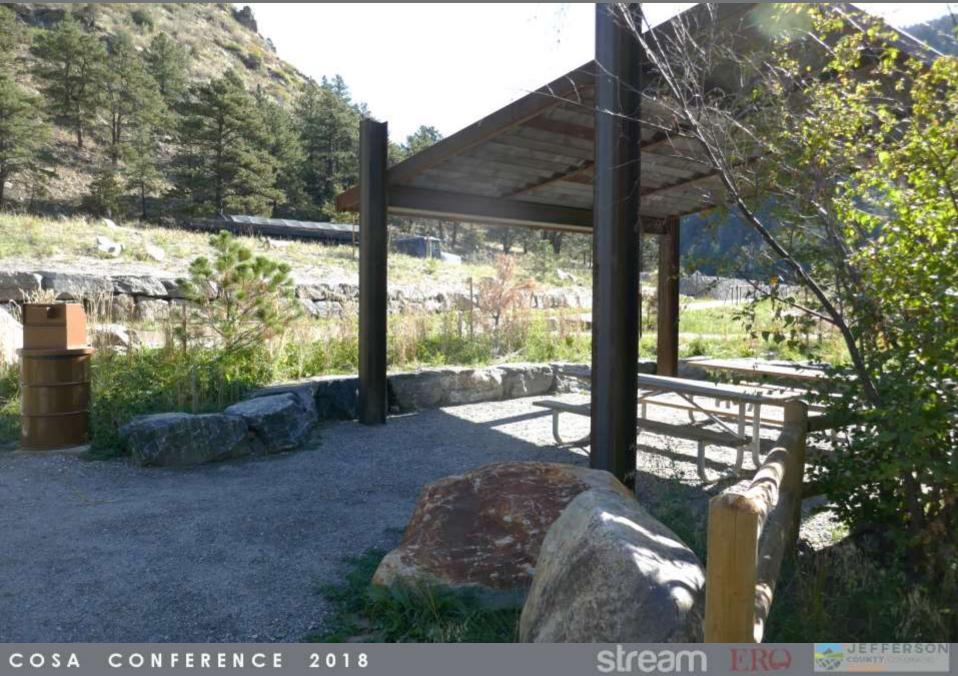
• Mitigate highway











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• Amenities--Shelters







Amenities--Shelters













• ADA Accessibility

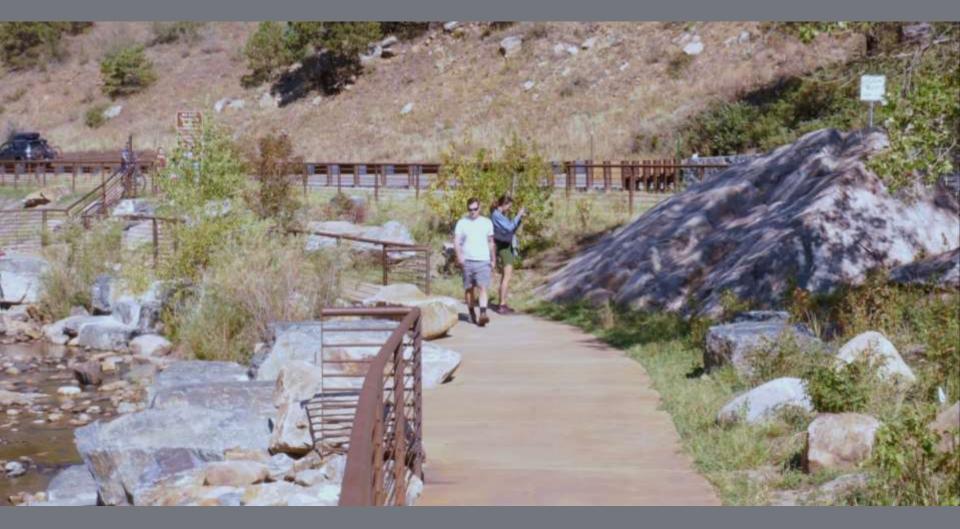






Design Approaches

• Amenities—Geology Garden







Amenities—Geology Garden











Design Approaches

Amenities—Geology Garden

metamorphic

1.7 BILLION YEARS OLD

ROCK TYPE

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