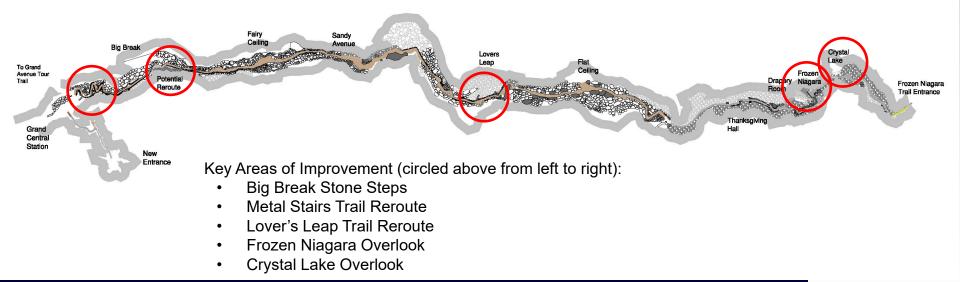
# Mammoth Cave National Park Rehabilitate Cave Trails: Frozen Niagara



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### **Frozen Niagara Trail Overview**





Big Break Steps - Overall



Big Break Steps - Landing



Big Break Steps - Lower Steps

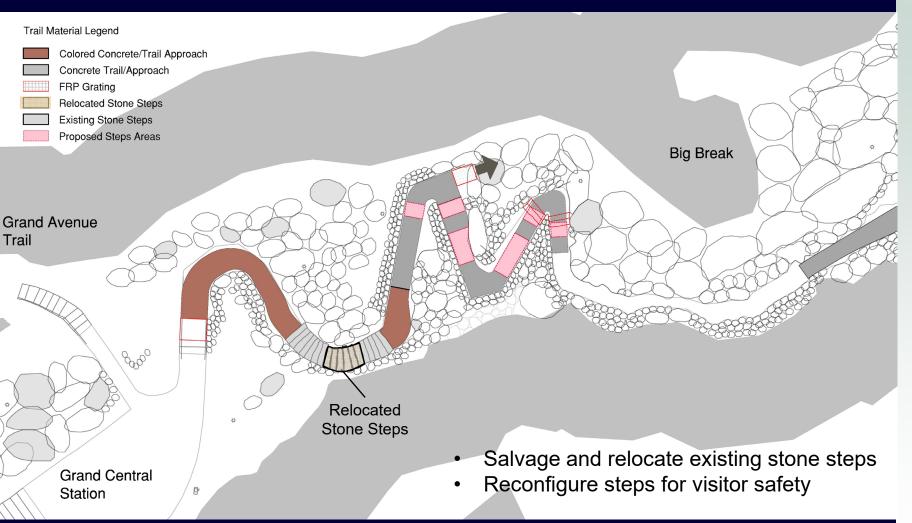
#### Issues at Big Break Steps:

- Steep slopes
- Historic limestone steps
- Historic stacked stone walls
- Uneven trail surfaces

### **Big Break Steps – Existing Conditions**



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### **Big Break Steps – Proposed Concept**





Metal Stairs - Bottom Landing



Metal Stairs - Looking Down



Metal Stairs - Looking Up

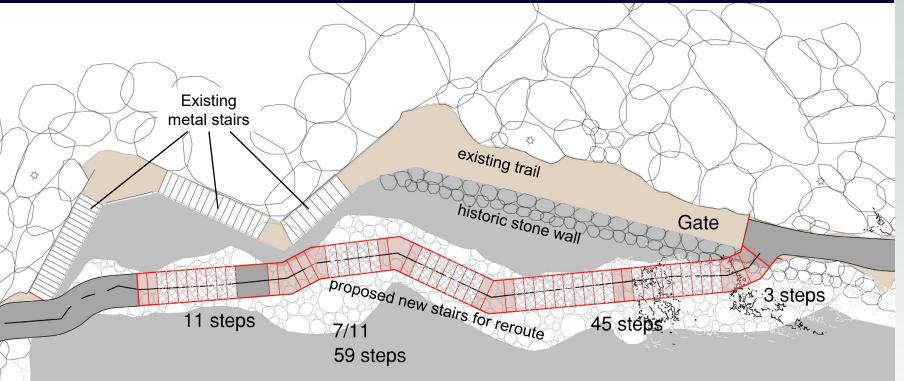
#### Issues at Trail Reroute Area:

- Three sets of very steep, ladder-like stairs
- Low head clearance
- Very narrow
- Historic stone retaining wall adjacent to trail
- Understructure encased in lead paint

#### **Trail Reroute – Existing Conditions**



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- Reroute existing trail to improve head clearance issues, width constraints, and steep steps
- Minimize disturbance to existing stone/rubble
- Minimize impacts to existing stone wall built by the Civilian Conservation Corps

#### **Trail Reroute – Proposed Concept**





Lover's Leap Trail - Overview



Lover's Leap Trail - Steps



Lover's Leap Trail - Switchback

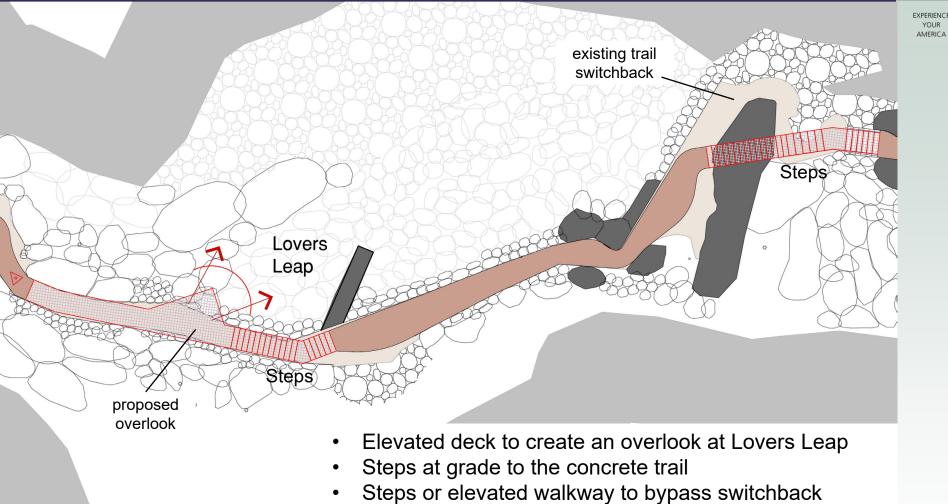
Issues at Lover's Leap Trail:

- Steep, narrow trail
- Switchback with low head clearance
- Non-compliant handrails
- Uneven trail surfaces
- Historic stacked stone wall

### Lover's Leap Trail – Existing Conditions



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Lover's Leap Trail – Proposed Concept



YOUR



Frozen Niagara Overlook from Trail



Frozen Niagara Overlook from Below



View of Rock Wall and Pillar over Fence

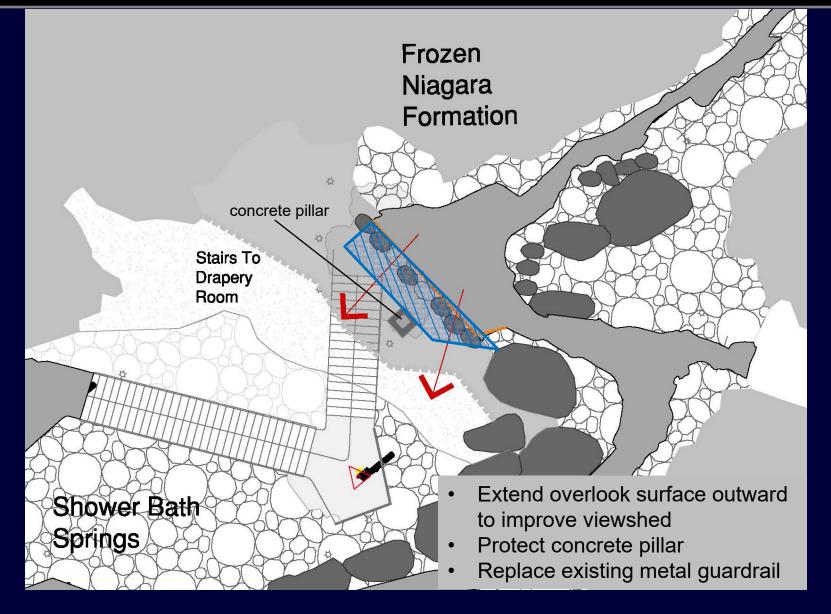
Issues at Frozen Niagara Overlook:

- Concrete pillar partially blocks view
- Metal handrail is set back from overlook
- Uneven trail surfaces

### Frozen Niagara Overlook – Existing Conditions



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Frozen Niagara Overlook – Proposed Concept





Crystal Lake Overlook Decking



Crystal Lake Overlook Guardrail



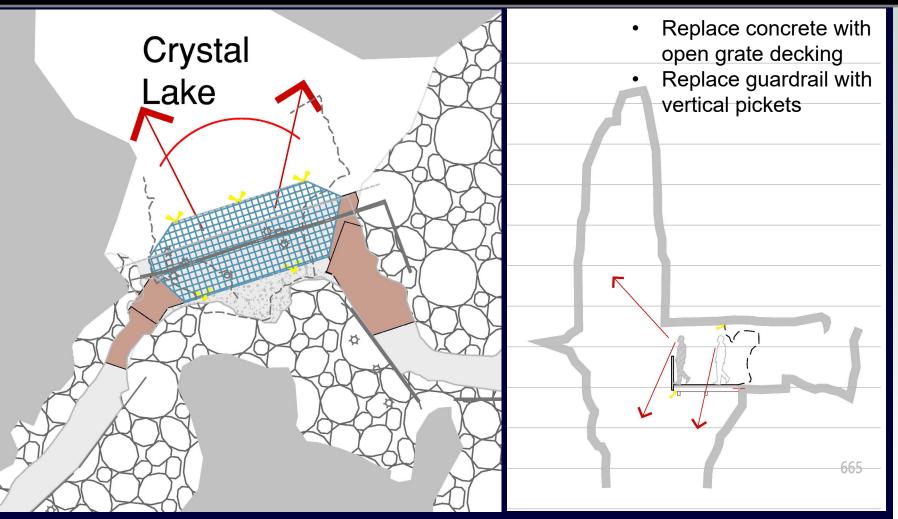
Partially-Obstructed View Below

Issues at Crystal Lake Overlook:

- Concrete decking and metal guardrail partially obstruct the view to the lake below
- Water management issues
- Age of existing infrastructure

### **Crystal Lake Overlook – Existing Conditions**





#### **Crystal Lake Overlook – Proposed Concept**