

The background features a stylized landscape. The top portion shows several overlapping, semi-transparent green mountain peaks. Below this, a wide, textured orange band represents a field or meadow. The bottom edge of the orange band is irregular and jagged, suggesting a horizon line or a torn paper effect. The overall color palette is dominated by greens and oranges.

RUX

Rattlesnake University Connection

RUX

Bridge over
Rattlesnake Creek
at Pine Street



Paved Trail South
of Railroad from
Creek to Van
Buren

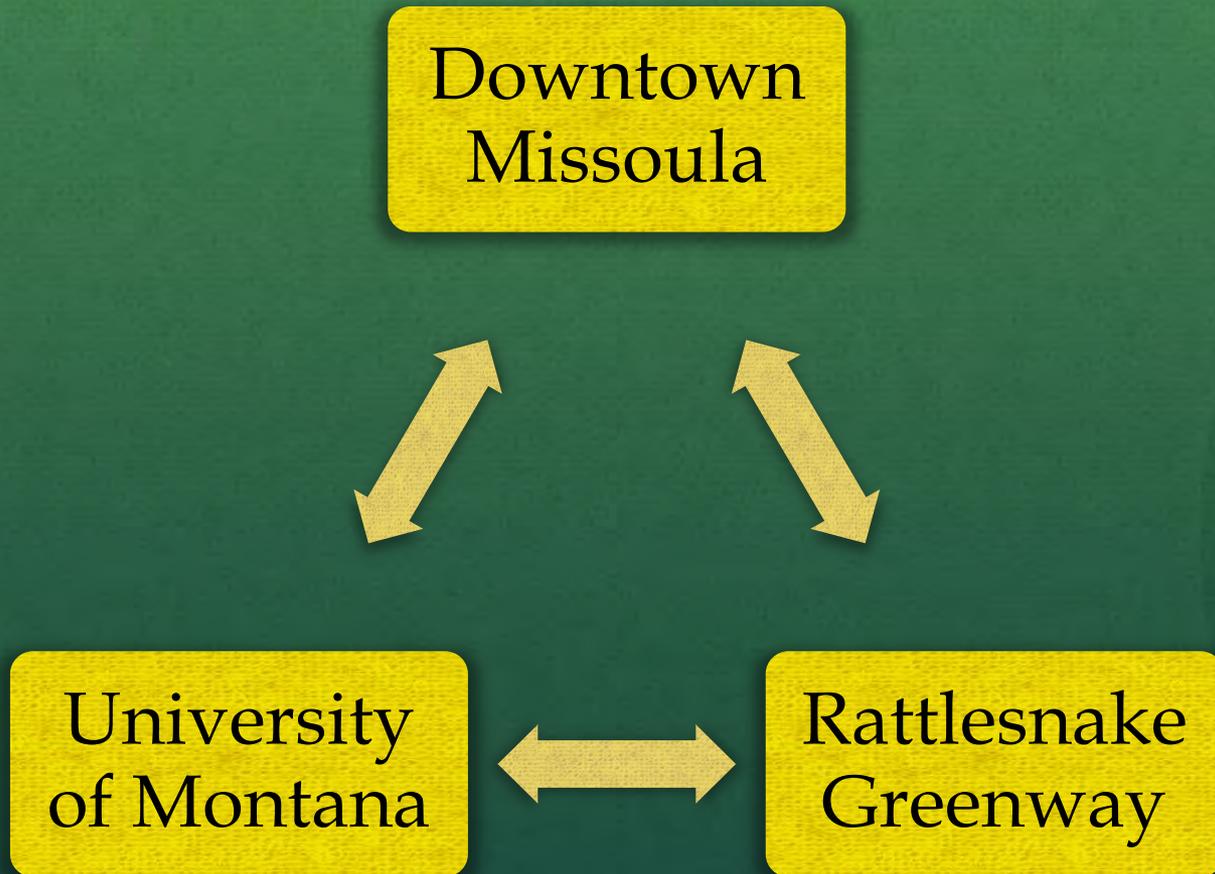


Improvement of
Van
Buren/Broadway
intersection and
path to University
Footbridge

Broadway/Van Buren



RUX: Improves safe, nonmotorized connectivity



RUX also connects to the Clark Fork River Trail System



RUX: Who benefits? (to name a few)

- Commuters to work and school
- Recreation to Rattlesnake Recreational Area
- University Events: sports, performances, lectures
- Farmer's Market
- Urban Businesses
- Caras Park/ Brennan's Wave/ Carousel

Rattlesnake Greenway: A Patchwork

Rattlesnake
Recreational
Area

Greenough
Park

Lincolnwood
Trail

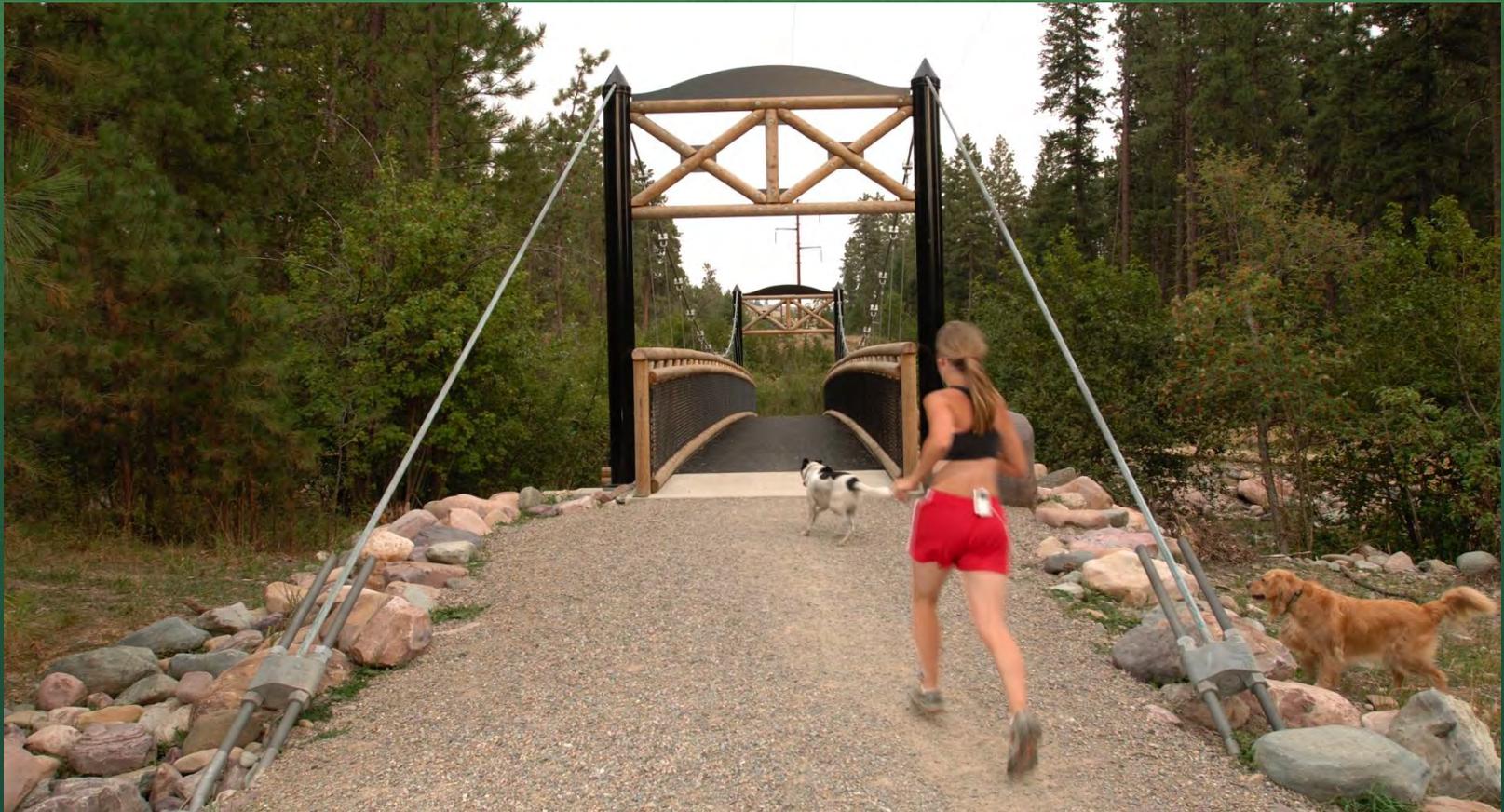


Old Duncan
Trail

Tom Green
Park

Bugbee
Preserve

Rattlesnake Bridge: 2006



Rattlesnake Bridge: 2006

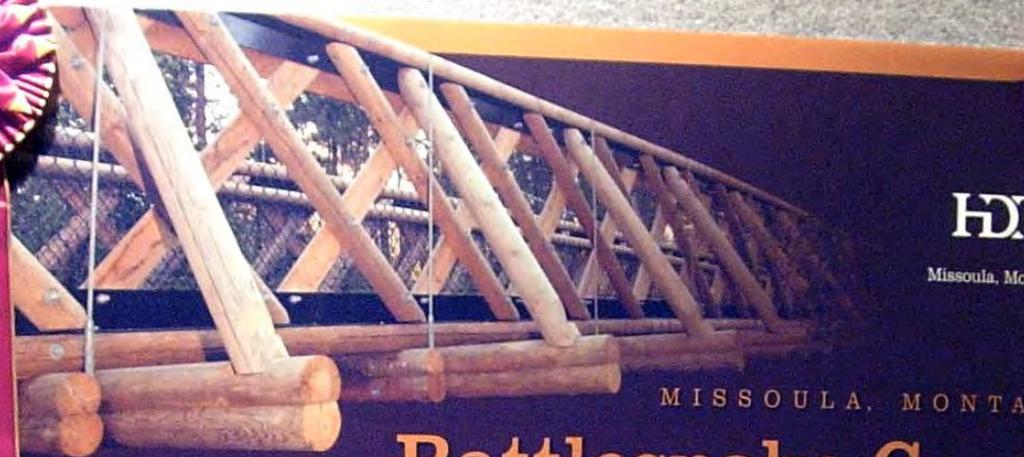
- Easement from Northwestern Energy
- Friends of Missoula Parks (FOMP) and Montana Community Development Corporation (MCDC)
- Funding from US Forest Service Grant for Small Diameter Timber, State Recreational Trails Grant, and over 100 individual donors
- National Engineering Award to HDR and Brad Miller

Rattlesnake Bridge

NATIONAL AWARDS

- 2007 American Council of Engineering Companies (ACEC):
Engineering Excellence Awards, Honor Award
- 2007 America Road and Transportation Builders (ARTBA):
Globe Award, 1st Place Bridge Category
- 2007 National Council of Structural Engineers Associations (NCSEA):
Finalist Project Award, Second Place
- 2008 Association of Conservation Engineers (ACE):
First Place Award of Excellence





HDR

Missoula, Montana

MISSOULA, MONTANA

Rattlesnake Creek Pedestrian Bridge

Rattlesnake National Recreation Area is a popular destination for area residents, but access was limited to the east side of Rattlesnake Creek. Friends of Missoula and the City of Missoula wanted to install a bridge that was environmentally friendly, used sustainable design and blended into its surroundings. The solution came in the form of a 90-foot-long cable suspension trail bridge designed by HDR. The bridge makes use of sustainable materials including small-diameter Lodgepole pine for floor beams, braces and stiffening side trusses, decking made from equal parts recycled plastic and sawdust, and rubber mats made from recycled tires.

Innovation

- ✦ First-ever use of small-diameter waste wood for a bridge
- ✦ Deck planks made from waste plastic and wood
- ✦ Mats made of recycled tires used as deck covering

Engineering Value & Public Perception

- ✦ Created prototype for future use of dead, small-diameter waste wood
- ✦ Built a needed crossing without adding to environmental waste

Complexity

- ✦ Lodgepole pine had never been used to build a bridge
- ✦ Stiffening trusses made from bug-killed trees to satisfy grant stipulations
- ✦ Towers and cables constructed under 230-KV high voltage power lines

Exceeding Client Needs

- ✦ Designed sustainable bridge that could be partially funded by a grant
- ✦ Involved Friends of Missoula Parks in every step of the design

Social, Economic & Sustainable Design

- ✦ Used Lodgepole pine and recycled plastic/wood decking to promote their use in future projects
- ✦ Bridge design allows individual wood members to be replaced as needed
- ✦ Used dead timber to reduce the number of trees going to waste and thin large stands of dead trees that contribute to forest fires



City of Missoula and Friends of Missoula Parks, Inc. Missoula, Montana

ACEC

AMERICAN COUNCIL ON EDUCATION AND CHEMISTRY

What is missing in The Rattlesnake Greenway? The Entrance!

- Bridge Over Broadway (BOB): FOMP started working on project in 2006



RUX: A Brief History

- 1994: Adopted to the Comprehensive Plan of the Non-motorized Transportation System
- Pursued by City of Missoula, Missoula Redevelopment Agency (MRA), and Feet First under the leadership of Mary Jean Gillman from 1995-1999.
- Derailed by lack of funding ?

MEMORANDUM

DATE: June 18, 1999

TO: Geoff Badenoch, Director
Missoula Redevelopment Agency
And MRA Board Members

FROM: Mary Jean Gilman
Feet First Non-motorized Transportation Program

RE: Non-motorized Bridge and Pathway Development
Connecting East Pine Street and Van Buren Street

As project manager for "Feet First", I have been asked to move this trail and bridge project forward. This informational memorandum for the Missoula Redevelopment Board will review several aspects of the proposed project, including scope, importance to the non-motorized system, land acquisition issues, cost, current status of the project, proposed maintenance strategy, and special conditions pertaining to the project. At the conclusion of this report the Board will find recommendations for next steps forward.

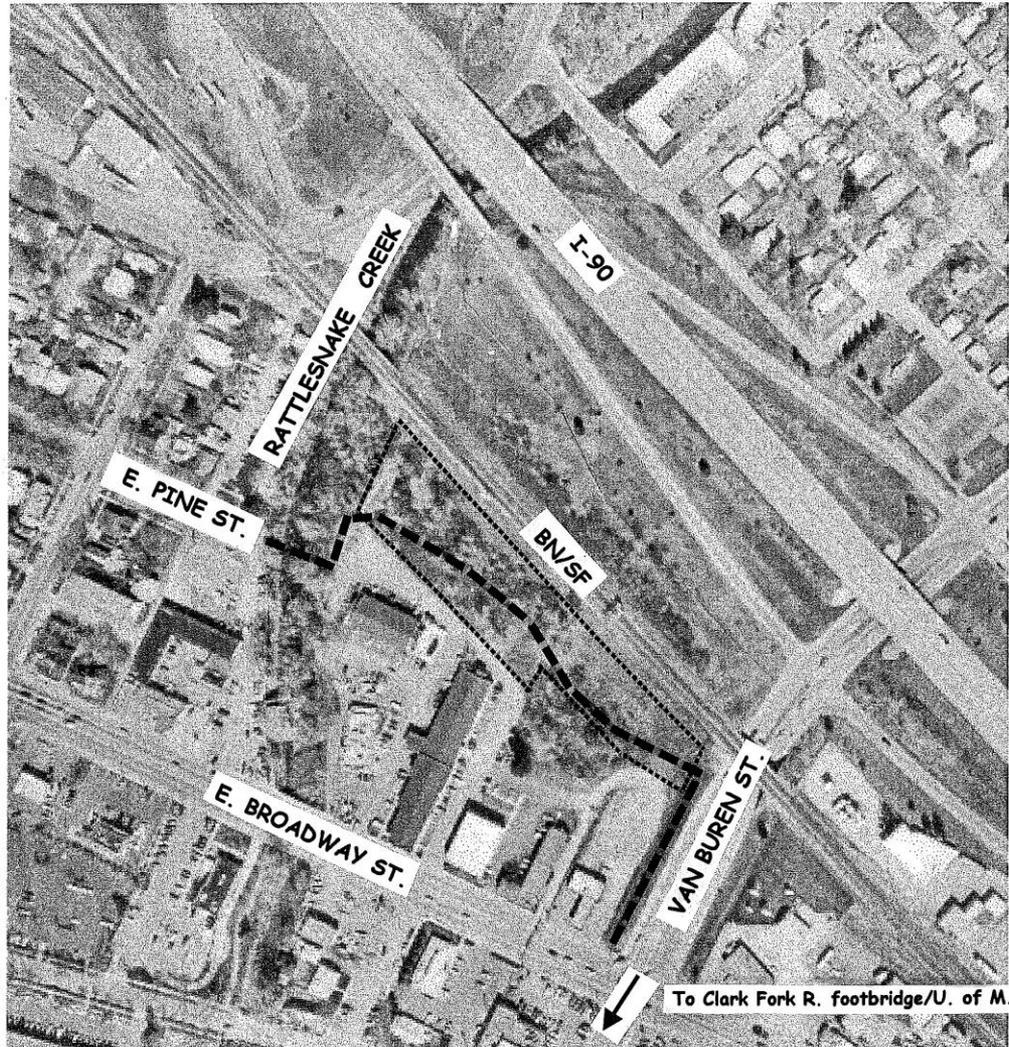
Project Scope

The project will place a bicycle-pedestrian bridge across Rattlesnake Creek at the east end of East Pine Street. A ten-foot wide asphalt-surfaced trail will link East Pine Street to Van Buren Street, south of the railroad tracks. The trail may continue to the Van Buren/East Broadway intersection, paralleling Van Buren. Other improvements, such as landscaping, irrigation, lighting, and seating are also anticipated. The site is approximately two acres in size.

Background

Element of Non-motorized Transportation System

The project initially appeared as a "trail core network" element in the 1994 "Guidelines for Creating a Non-motorized Travel Network in the Greater Missoula Area", an adopted part of the Comprehensive Plan. It is a combination of several proposals later submitted to the Non-motorized Transportation Steering



----- Lease area



N

RUX: Letters of Support

- Five Valleys Land Trust
- Clark Fork Coalition
- Missoula Historical Society
- Historic Eastside Neighborhood Assoc.
- Downtown Assoc.
- Missoula Chamber of Commerce
- Missoulians in Motion
- Mountain Bike Missoula
- Kiwanis of Missoula
- Rotary Club of Missoula

RUX: Funding

- H.R. 1105 (111th): Omnibus Appropriations Act, 2009, Section 127: **\$700K**
- State Legislative Session, June 30, 2007, Dept. Fish, Wildlife and Parks (5201): **\$75 K** (pending)
- Private donations: **\$50K**