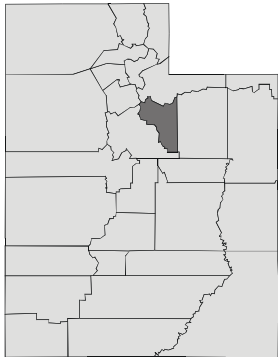


PROVO RIVER PEDESTRIAN COVERED BRIDGE, Wasatch County, Utah



Type: Covered pedestrian bridge with glued-laminated/fiber reinforced polymer wood beams and transverse glued-laminated deck

County: Wasatch

Owner: Wasatch County

Built in: 2001

Fabricator: Perma Post Products & Euclid Timber Frames

Engineer: Merv Eriksson, USDA Forest Service

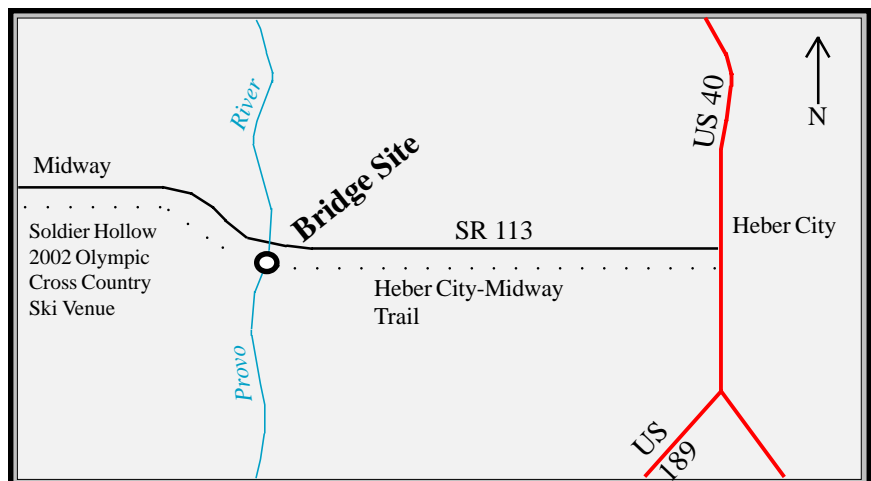
Architect: George Olson, Architect, Midway, UT

Spans over: Provo River

Bridge length: 125'-1" (2 spans)

Roadway width: 12'-0"

Directions: The bridge carries the Heber City-Midway Trail over the Provo River between Heber City, UT and Midway, UT. The trail parallels State Route 113.



USDA Forest Service

The National Wood In
Transportation Program



GEOMETRY

Number of Spans: 2
 Out-to-out length: 125'-1"
 Center-of-bearing length: 124'-5"
 Skew: 0 degrees
 Out-to-out width: 13'-5-1/2"
 Rail-to-rail width: 12'-0"
 Number of beams: 4
 Superstructure square footage: 1683

Design loads: Snow load - 50 lbs/sq. ft.
 (on roof); Pedestrian load - 65 lbs/sq. ft.
 (on deck); H10 vehicle load
 Design by: Merv Eriksson, USDA Forest
 Service

Total wood quantity: 33,000 bf
 Wood quantity in bridge cover: 11,850 bf
 Wood quantity in remainder of bridge:
 21,150 bf
 Total structure cost: \$155,000
 Total substructure cost: \$30,000
 Total superstructure cost: \$125,000
 Total superstructure cost /sq. ft.: \$74.27

MATERIAL

DECK

Material: Glued-laminated wood
 Species: Coastal Douglas-fir
 Size: 3'-8" x 48" x 12'-0" panels
 Preservative treatment: Pentachlorophenol in
 light oil

STRINGERS

Material: Glued-laminated wood
 Species: Coastal Douglas-fir
 Sizes: Interior - 6-3/4" x 42";
 Exterior - 8-3/4" x 54" fiber reinforced
 with Kevlar
 Preservative treatment: Pentachlorophenol
 in light oil

COVER/HANDRAIL

Material: Rough sawn wood
 Species: Douglas-fir
 Quantity: 11,850 bf
 Preservative: Wood sealer
 Connections: Mortise and tenon and wood
 pegs

ABUTMENTS

Helical screw pile abutments
 Glued-laminated abutment caps
 Reinforced concrete pier supported by helical
 screw piles

BRIDGE PERFORMANCE: This bridge is part of a non-motorized trail connecting the towns of Heber City and Midway, Utah, and in the future will also connect to the Soldier Hollow Nordic Skiing Venue and the Uinta National Forest.

FUNDING SOURCES: USDA Forest Service: \$50,000; Balance of funding from Mitsubishi Motor Corporation, Wasatch County, USDOT Federal Highway Administration, Utah Department of Transportation, and other partners. The project funding includes the Provo River Bridge, the nearby Spring Creek Bridge and the trail system.

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Information provided by Merv Eriksson, USDA Forest Service

WIT Program Proposal Number: R04-001-00-PED

Federal Grant Identifier: 00-DG-11244225-141

October 2001

PARTNERS

Mitsubishi Motor Corporation, Wasatch County, USDOT Federal
 Highway Administration, Utah Department of Transportation, Heber
 Valley Chamber of Commerce, Tread Lightly!

USDA Forest Service: National Wood In Transportation Program,
 Uinta National Forest, Wasatch-Cache National Forest, 2002
 Olympic Planning Team