**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.
### 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**

### WOOD QUANTITY
- **Total wood quantity:** 33,000 bf
- **Wood quantity in bridge cover:** 11,850 bf
- **Wood quantity in remainder of bridge:** 21,150 bf

### SUPERSTRUCTURE COSTS
- **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
- **Size:**
- **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.**

### LOCAL CONTACT:
- **Robyn Pearson, Executive Director**
- **Wasatch Economic Development Organization**
- **475 North Main, PO Box 427**
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Information provided by Merv Eriksson, USDA Forest Service

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### PARTNERS

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