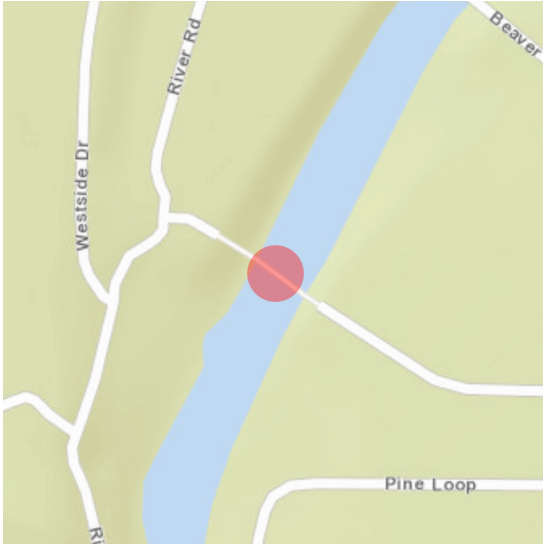


Historic Property Report

Resource Name: Plain Pedestrian Bridge (08800800)

Property ID: 719093

Location



Geographic Areas: Chelan County, T26R17E12, PLAIN Quadrangle

Information

Number of stories: N/A

Construction Dates:

Construction Type	Year	Circa
Built Date	1909	<input type="checkbox"/>
Remodel	1927	<input type="checkbox"/>

Historic Use:

Category	Subcategory
Transportation	
Transportation	

Historic Context:

Category
Transportation

Architect/Engineer:

Category	Name or Company
Builder	E.E Davis and Company
Architect	Bowman & McCloy
Engineer	Fred M. Berry



Historic Property Report

Resource Name: Plain Pedestrian Bridge (08800800)

Property ID: 719093

Thematics:

Local Registers and Districts

Name	Date Listed	Notes
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Project History

Project Number, Organization, Project Name	Resource Inventory	SHPO Determination	SHPO Determined By, Determined Date
2019-05-03827, WSDOT, Chelan County Historic Bridge Inventory - W. Cashmere Bridge MOA	6/6/2019		

Photos



20190115_102250.jpg



6_78.JPG



5_78.JPG



4_92.JPG



3_92.JPG



2_92.JPG

Historic Property Report

Resource Name: Plain Pedestrian Bridge (08800800)

Property ID: 719093



1_92.JPG



20190115_102106.jpg



20190115_101125.jpg



20190115_101032.jpg



20190115_100854.jpg



20190115_100749.jpg

Historic Property Report

Resource Name: Plain Pedestrian Bridge (08800800)

Property ID: 719093



20190115_100739.jpg



20190115_100651.jpg



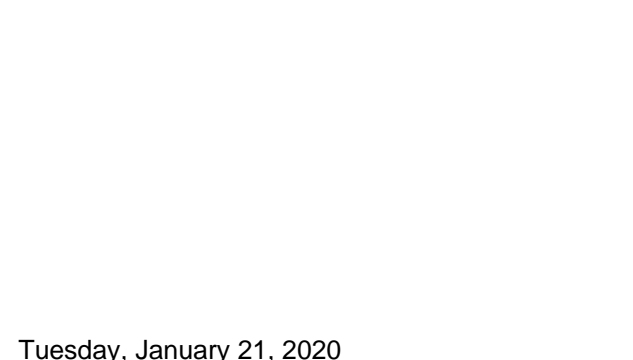
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20190115_095824.jpg





Historic Property Report

Resource Name: Plain Pedestrian Bridge (08800800)

Property ID: 719093

Inventory Details - 6/6/2019

Common name: Plain Pedestrian Bridge (08800800)

Date recorded: 6/6/2019

Field Recorder: Stephen Austin

Field Site number:

SHPO Determination

Detail Information

Characteristics:

Category	Item
Form Type	Bridge - Pratt Truss
Foundation	Concrete - Poured

Surveyor Opinion

Property appears to meet criteria for the National Register of Historic Places: Yes

Property is located in a potential historic district (National and/or local): No

Property potentially contributes to a historic district (National and/or local): No



Historic Property Report

Resource Name: Plain Pedestrian Bridge (08800800)

Property ID: 719093

Significance narrative: The Plain Pedestrian Bridge (08800800) is eligible for listing in the National Register of Historic Places under Criterion C for its intact pin-connected Pratt through truss design. Chelan County constructed the bridge in 1909 and reportedly “rebuilt” it in 1927. The County converted the bridge to sole pedestrian use ca. the early 1990s. No historical documentation pertaining to the bridge was located during research. Nevertheless, the bridge is a rare surviving example of a dual span pin-connected Pratt through truss built in the early twentieth century. It retains a high level of integrity of location, design, workmanship, materials, setting, feeling, and association.

Designed by Bowman & McCloy of Seattle, the Plain Pedestrian Bridge was constructed by E.E Davis and Company in 1909. A plaque located on its west end reports that Chelan County Engineer, Fred M. Berry, and Chelan County Commissioners O.J. Trow, Alex Pitcher, and G. B. Kinney approved the bridge’s construction. Few applicable records were located at the county level but available documentation reports the structure underwent rehabilitation in 1927. It is unclear what sort of work was conducted as Chelan County Commissioner’s Minutes and contemporary newspapers did not yield information about its 1909 construction or 1927 reconstruction.

Thomas and Caleb Pratt developed the Pratt truss in 1844. The design became popular with early wood and iron trusses but grew in prominence with the transition to full metal construction. The Plain Pedestrian Bridge follows the standards Pratt design with its heavy vertical members acting in compression and its light diagonal tie rods and eyebars in tension. Its primary joints are pin-connected and its secondary members consist of lighter materials and built-up members. Such features are not commonly found in later steel truss constructions.

Full concrete columns located approx. 200-ft. upstream from the Plain Ped Bridge are present on the east bank of the Wenatchee River. A ruined pair of piers is present on the west bank. Visual inspection suggests that a third set of piers may be located in the river channel. All three piers roughly parallel the current bridge but closer inspection indicates that they are set closer together and likely supported a shorter structure.



Historic Property Report

Resource Name: Plain Pedestrian Bridge (08800800)

Property ID: 719093

Physical description:

The Plain Pedestrian Bridge is a 324-ft. pin-connection Pratt through truss. Its dual span construction crosses the Wenatchee River within the unincorporated town of Plain, located in central Chelan County. The structure has carried limited pedestrian traffic since the early 1990s.

The two steel through truss spans erected in the Pratt configuration are the primary character-defining features of the bridge. Each consist of seven panels with diagonal eye-bars in the two outer panels at each end. Diagonal tie rods and eyebars intersect in the two interior truss panels and create the iconic X-pattern of the Pratt configuration. The inclined end posts and parallel top chord are comprised of built-up members consisting of I-beams connected by rivets and lacing bars. All interior truss vertical posts are built-up and laced together. Tie rods act as hip verticals at each end of the truss. The bottom chord is made up of parallel steel eyebars that connect interior truss diagonals to each vertical member with pinned-joints at the lower truss panel points. These connections also tie the truss to each steel floor beam that supports its twelve timber stringers and decking. Pinned connections at the top of each panel connect vertical members to the top chord.

The portal braces consist of L-shaped members in a modified "W" pattern, creating a unique visual aesthetic. Each interior sway brace consists of L-shaped bars in a diamond configuration, riveted together with a tie plate. Its upper struts consist of built-up laced members. Top lateral bracing consists of two tie rods per panel in an X-pattern. Several large holes patched with sheet metal are located across its approx. 300-ft. timber deck. A steel bumper guard runs the length of the bridge on both sides of the deck. Steel riveted brackets attached to vertical members on the north and south elevations carry utilities. Both truss spans meet at a central instream pier constructed of two concrete columns jacketed in steel. A concrete abutment supports the bridge at each end.

Bibliography:

Bridge Engineering Information System (BEIS). Plain Pedestrian Bridge. 08800800, Maps, inspection reports and photos. Online, Tumwater.
<http://beist/InventoryAndRepair/Inventory/BRIDGE/Details/Index/63ff765c-f49d-42bf-902b-ea3406f58a67>
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Wilma, David. "Chelan County – Thumbnail History." Historylink Essay No. 7624, January 28, 2006. Accessed March 2019. <https://www.historylink.org/File/7624>