

United States Department of the Interior  
National Park Service

National Register of Historic Places  
Continuation Sheet

Section number \_\_\_\_\_ Page \_\_\_\_\_

SUPPLEMENTARY LISTING RECORD

NRIS Reference Number: 95000629

Date Listed: 5/24/95

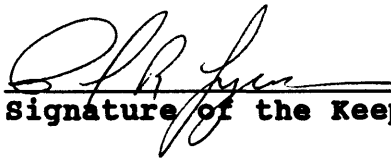
Donald-Wapato Bridge  
Property Name

Yakima  
County

WA  
State

Bridges of Washington State MPS  
Multiple Name

-----  
This property is listed in the National Register of Historic Places in accordance with the attached nomination documentation subject to the following exceptions, exclusions, or amendments, notwithstanding the National Park Service certification included in the nomination documentation.

  
Signature of the Keeper

5/24/95  
Date of Action

=====  
Amended Items in Nomination:

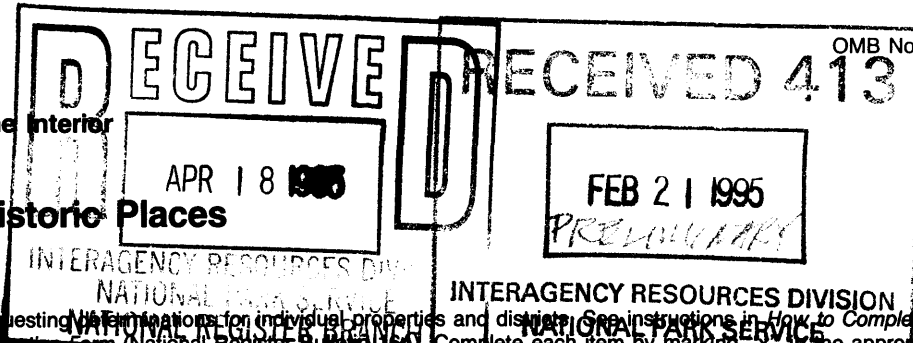
U.T.M.:  
The correct UTM coordinates should read: 10 699830 5148910.

This information was confirmed by Lauren McCroskey of the Washington SHPO

DISTRIBUTION:  
National Register property file  
Nominating Authority (without nomination attachment)

United States Department of the Interior  
National Park Service

National Register of Historic Places  
Registration Form



This form is for use in nominating or requesting determinations for individual properties and districts. See instructions in *How to Complete the National Register of Historic Places Registration Form* (National Register Bulletin 16A). Complete each item by marking "X" in the appropriate box or by entering the information requested. If an item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, architectural classification, materials, and areas of significance, enter only categories and subcategories from the instructions. Place additional entries and narrative items on continuation sheets (NPS Form 10-900a). Use a typewriter, word processor, or computer, to complete all items.

1. Name of Property

historic name Donald-Wapato Bridge

other names/site number Bridge No. 396

2. Location

street & number Interstate Route 82 and Donald Road, spanning the  not for publication  
Yakima River

city or town Wapato  vicinity

state Washington code WA county Yakima code 077 zip code 98951

3. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act, as amended, I hereby certify that this  nomination  request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60. In my opinion, the property  meets  does not meet the National Register criteria. I recommend that this property be considered significant  nationally  statewide  locally. ( See continuation sheet for additional comments.)  
May M. Sampson  
Signature of certifying official/Title Date  
State of Federal agency and bureau

In my opinion, the property  meets  does not meet the National Register criteria. ( See continuation sheet for additional comments.)  
Signature of certifying official/Title Date  
State or Federal agency and bureau

4. National Park Service Certification

I hereby certify that the property is:

- entered in the National Register.  
 See continuation sheet.
- determined eligible for the National Register  
 See continuation sheet.
- determined not eligible for the National Register.
- removed from the National Register.
- other, (explain:)

Signature of the Keeper Carl R. Lyman Date of Action 5/24/95

Donald-Wapato Bridge  
Name of Property

Yakima, Washington  
County and State

**5. Classification**

**Ownership of Property**  
(Check as many boxes as apply)

- private
- public-local
- public-State
- public-Federal

**Category of Property**  
(Check only one box)

- building(s)
- district
- site
- structure
- object

**Number of Resources within Property**  
(Do not include previously listed resources in the count.)

| Contributing | Noncontributing |            |
|--------------|-----------------|------------|
|              |                 | buildings  |
|              |                 | sites      |
| 1            |                 | structures |
|              |                 | objects    |
| 1            |                 | Total      |

**Name of related multiple property listing**  
(Enter "N/A" if property is not part of a multiple property listing.)

"Bridges of Washington State, 1941-1950"  
"Historic Bridges & Tunnels in Washington State"

**Number of contributing resources previously listed in the National Register**

0

**6. Function or Use**

**Historic Functions**

(Enter categories from instructions)

Transportation/road-related/bridge

**Current Functions**

(Enter categories from instructions)

Transportation/road-related/bridge

**7. Description**

**Architectural Classification**

(Enter categories from instructions)

Other: concrete box girder

**Materials**

(Enter categories from instructions)

foundation

walls

roof

other concrete

**Narrative Description**

(Describe the historic and current condition of the property on one or more continuation sheets.)

**8. Statement of Significance**

**Applicable National Register Criteria**

(Mark "x" in one or more boxes for the criteria qualifying the property for National Register listing.)

- A** Property is associated with events that have made a significant contribution to the broad patterns of our history.
- B** Property is associated with the lives of persons significant in our past.
- C** Property embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction.
- D** Property has yielded, or is likely to yield, information important in prehistory or history.

**Criteria Considerations**

(Mark "x" in all the boxes that apply.)

Property is:

- A** owned by a religious institution or used for religious purposes.
- B** removed from its original location.
- C** a birthplace or grave.
- D** a cemetery.
- E** a reconstructed building, object, or structure.
- F** a commemorative property.
- G** less than 50 years of age or achieved significance within the past 50 years.

**Narrative Statement of Significance**

(Explain the significance of the property on one or more continuation sheets.)

**9. Major Bibliographical References**

**Bibliography**

(Cite the books, articles, and other sources used in preparing this form on one or more continuation sheets.)

**Previous documentation on file (NPS):**

- preliminary determination of individual listing (36 CFR 67) has been requested
- previously listed in the National Register
- previously determined eligible by the National Register
- designated a National Historic Landmark
- recorded by Historic American Buildings Survey # \_\_\_\_\_
- recorded by Historic American Engineering Record # \_\_\_\_\_

**Areas of Significance**

(Enter categories from instructions)

- Engineering
- Transportation

**Period of Significance**

1948-1950

**Significant Dates**

1948

**Significant Person**

(Complete if Criterion B is marked above)

n/a

**Cultural Affiliation**

n/a

**Architect/Builder**

Homer M. Hadley, engineer  
David Nygren, contractor

**Primary location of additional data:**

- State Historic Preservation Office
  - Other State agency
  - Federal agency
  - Local government Yakima County Dept. of
  - University Public Works, Yakima, WA; Arch-
  - Other aeological & Historical Services,
- Name of repository: Eastern Washington Univer-  
sity, Cheney, WA

Donald-Wapato Bridge  
Name of Property

Yakima, Washington  
County and State

**10. Geographical Data**

**Acreage of Property** less than one acre

**UTM References**

(Place additional UTM references on a continuation sheet.)

1 

|      |         |   |   |   |   |   |          |   |   |   |   |   |   |   |
|------|---------|---|---|---|---|---|----------|---|---|---|---|---|---|---|
| 1    | 0       | 6 | 9 | 9 | 8 | 3 | 0        | 5 | 1 | 4 | 8 | 9 | 1 | 0 |
| Zone | Easting |   |   |   |   |   | Northing |   |   |   |   |   |   |   |

3 

|      |         |  |  |  |  |  |          |  |  |  |  |  |  |  |
|------|---------|--|--|--|--|--|----------|--|--|--|--|--|--|--|
|      |         |  |  |  |  |  |          |  |  |  |  |  |  |  |
| Zone | Easting |  |  |  |  |  | Northing |  |  |  |  |  |  |  |

See continuation sheet

**Verbal Boundary Description** The property is a bridge, measuring 246 feet, spanning the Yakima River on Donald Road (a secondary route), about 0.33 mile south of Interstate Route 82 in Yakima County, Washington.

**Boundary Justification** The boundary of the property is the bridge itself.  
(Explain why the boundaries were selected on a continuation sheet.)

**11. Form Prepared By**

name/title Robert H. Krier, J. Byron Barber, Robin Bruce, Craig Holstine

organization AHS, Eastern Washington Universtiy date 6 December 1991

street & number MS-168 Monroe Hall telephone (509) 359-2284

city or town Cheney state WA zip code 99004

**Additional Documentation**

Submit the following items with the completed form:

**Continuation Sheets**

**Maps**

A **USGS map** (7.5 or 15 minute series) indicating the property's location.

A **Sketch map** for historic districts and properties having large acreage or numerous resources.

**Photographs**

Representative **black and white photographs** of the property.

**Additional items**

(Check with the SHPO or FPO for any additional items)

**Property Owner**

(Complete this item at the request of SHPO or FPO.)

name \_\_\_\_\_

street & number \_\_\_\_\_ telephone \_\_\_\_\_

city or town \_\_\_\_\_ state \_\_\_\_\_ zip code \_\_\_\_\_

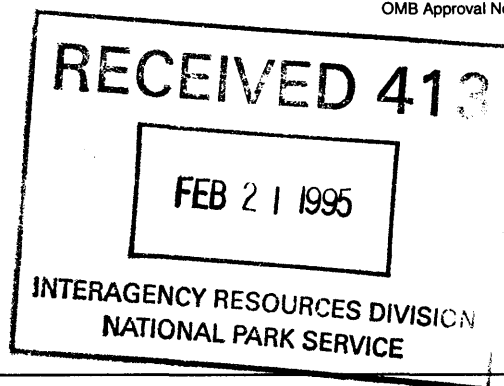
**Paperwork Reduction Act Statement:** This information is being collected for applications to the National Register of Historic Places to nominate properties for listing or determine eligibility for listing, to list properties, and to amend existing listings. Response to this request is required to obtain a benefit in accordance with the National Historic Preservation Act, as amended (16 U.S.C. 470 et seq.).

**Estimated Burden Statement:** Public reporting burden for this form is estimated to average 18.1 hours per response including time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding this burden estimate or any aspect of this form to the Chief, Administrative Services Division, National Park Service, P.O. Box 37127, Washington, DC 20013-7127; and the Office of Management and Budget, Paperwork Reductions Projects (1024-0018), Washington, DC 20503.

United States Department of the Interior  
National Park Service

## National Register of Historic Places Continuation Sheet

Section number 7 Page 1



### 7. Physical Description

The Donald–Wapato Bridge is located in Yakima County and spans a crossing of the Yakima River. This crossing is the nearest connection between the communities of Donald and Wapato, Washington. Constructed in 1948, the concrete box girder Donald–Wapato Bridge replaced an earlier timber bridge. Located north of the old bridge, the new bridge was built on a new alignment of the county road (then Primary State Highway 5).

The Donald–Wapato Bridge is a symmetrical continuous reinforced concrete box girder bridge consisting of three spans—78 feet, 90 feet, and 78 feet—for a total length of 246 feet. The bridge is significant for its design; it is one of the first known box girder bridges incorporating multiple-cell construction. The bridge consists of two separate single-cell concrete boxes joined by a 7.5-inch-thick concrete slab, with the concrete slab serving as the roadway deck. In contrast, other earlier box girder structures in Washington State typically consisted of a single cell rather than multiple-cell construction, notable exceptions being the Winnifred Street Bridge in Ruston and the Toppenish–Zillah Bridge in Yakima County. The Winnifred Street Bridge is the only other known early multiple-cell box girder structure in Washington State.

The Donald–Wapato Bridge's boxes measure 4 feet deep and 6 feet wide, with 9-foot spaces between the boxes. The bridge's roadway measures 24 feet in width, with 3.5-foot sidewalks on each side of the roadway. The box depth of 4 feet begins a straight line taper at a point 10 feet each side of the piers to achieve a 5-foot depth at the centerline of the piers. The increased box depth over the piers was probably employed in order to satisfy negative moment stresses. Using a 5-foot box depth only where necessary was undoubtedly more cost-effective than pouring concrete at the maximum required depth for the entire length of the bridge.

United States Department of the Interior  
National Park Service

## National Register of Historic Places Continuation Sheet

Section number 8, 9 Page 1

---

### 8. Statement of Significance

The Donald–Wapato Bridge is eligible for inclusion in the National Register of Historic Places under Criteria A and C. It is significant for its design (one of the first multiple-cell concrete box girder bridges constructed in Washington State) and for its association with Homer M. Hadley who designed the bridge. The bridge is also significant for its role in facilitating the movement of farm-to-market traffic between the agricultural communities of Wapato and Donald and from Wapato to nearby Interstate Route 82.

The Donald–Wapato Bridge represents an early example of Homer M. Hadley's work. Hadley played an important role in the promotion of hollow, cellular box-girder-type bridges.

Despite the apparent success of the Purdy Bridge, the box girder bridge design concept did not gain popularity until after World War II. Following the War, Hadley used the box girder design extensively in the construction of local agency bridges and, by the 1950s, the box girder type was widely used in bridge building throughout Washington.

While today the full extent of Hadley's influence in advancing use of the box girder design is uncertain, his innovations with the box girder design served as prototypes for later box girder bridges.

Yakima County engineer in charge of the project was O. E. Brashears. Andy B. Wallace was chairman of the County Commissioners. Contractor for the Donald–Wapato Bridge was David Nygren. Contract price of the bridge was \$87,207.

### 9. Major Bibliographic References

Soderberg, Lisa. 1980. "Historic Bridges and Tunnels in Washington State," on file in the Washington State Office of Archaeology and Historic Preservation, Olympia, Washington.

Washington State Department of Highways. *Biennial Reports*, 1946–1948, 1948–1950.

Yakima County Department of Public Works. Donald–Wapato Bridge plans, dated 15 September 1948.