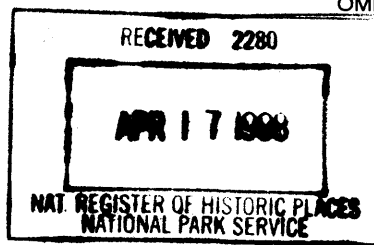


United States Department of the Interior
National Park Service



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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 Klondike Bridge

other names/site number _____

2. Location

street & number 180th Street over Big Sioux River not for publication

city or town 6.5 miles southwest of Larchwood vicinity

state Iowa/South Dakota code IA/SD county Lyon/Lincoln code 119/083 zip code 51241

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.)

Patricia Onken DSHPD
Signature of certifying official/Title

4-7-98
Date

STATE HISTORICAL SOCIETY OF IOWA
State or 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):

Edson H. Beall 5-15-98

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	
0	0	buildings
0	0	sites
1	0	structures
0	0	objects
1	0	Total

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

Highway Bridges of Iowa

Number of contributing resources previously listed in the National Register

0

6. Function or Use

Historic Functions
(Enter categories from instructions)

TRANSPORTATION/road-related

Current Functions
(Enter categories from instructions)

VACANT/not in use

7. Description

Architectural Classification
(Enter categories from instructions)

other: Pratt through truss

Materials
(Enter categories from instructions)

foundation Concrete

walls

roof

other Steel

Narrative Description

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

Located 6.5 miles southwest of Larchwood, the Klondike Bridge spans the Big Sioux River in a rural Lyon County setting that has changed little since the structure's period of significance. A description of the structure follows:

span number: 3 construction date: 1913-14
 span length: 160.0'; 40.0' construction cost: \$11,586.11
 total length: 260.0' current condition: fair
 roadway wdt.: 14.0' alterations: bridge closed

superstructure: steel, 9-panel, pin/rigid-connected Pratt through truss; one 3-panel, rigid-connected Warren pony truss approach span at each end
 substructure: concrete abutments, wingwalls and piers
 floor/decking: concrete deck over steel stringers
 other features: upper chord and inclined end post: 2 channels with cover plate and double lacing; lower chord: 2 channels with cover plates; vertical: 2 channels with lacing; diagonal: 2 punched rectangular eyebars; lateral bracing: 1 angle crossed; strut: 4 angles with lacing; floor beam: I-beam, field-bolted to verticals; guardrail: 2 angles

Other than maintenance-related repairs, the bridge remains essentially unaltered as it continues to carry vehicular traffic. The Klondike Bridge today retains a high degree of integrity of location, design, setting, materials, workmanship, feeling and association.

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 continuation sheets.)

Areas of Significance

(Enter categories from instructions)

ENGINEERING

Period of Significance

1913-14

(The period of significance is derived from the original construction date.)

Significant Dates

1913-14 (construction date)

Significant Person

(Complete if Criterion B is marked above)

N/A

Cultural Affiliation

N/A

Architect/Builder

designer:

Iowa State Highway Commission

fabricator:

Western Br.& Const. Co.; Cambria Steel Co.

builder:

Western Bridge and Constr. Co., Omaha NE

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

Primary location of additional data:

- State Historic Preservation Office
- other State agency
- Federal agency
- Local government
- University
- other

name of repository:

10. Geographical DataAcreage of Property less than one acre**UTM References**

(Place additional UTM references on a continuation sheet)

1 14 700760 4806420
zone easting northing2 _____
zone easting northing**Verbal Boundary Description**

(Describe the boundaries of the property)

The nominated property is a rectangular-shaped parcel measuring 16 feet by 260 feet, which is centered on the UTM point(s) listed above. Included within this rectangular parcel are the bridge's superstructure, substructure, approach spans and floor system.

Boundary Justification

(Explain why the boundaries were selected)

The nominated structure includes the bridge's superstructure, substructure, floor system, any approach spans and the property on which they rest. These boundaries encompass, but do not exceed, all of the property that has been historically associated with the bridge.

11. Form Prepared Byname/title Clayton B. Fraserorganization Fraserdesign date 31 August 1994street & number 1269 Cleveland Avenue telephone 303-669-7969city or town Loveland state Colorado zip code 80537**Additional Documentation**

Submit the following items with the completed form:

Continuation Sheets**Maps**A **USGS map** (7½ or 15 minute series) indicating the property's locationA **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/title Lyon Countystreet & number 206 South Second Avenue telephone 712-472-3154city or town Rock Rapids state Iowa zip code 51246

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 8 Page 1 Klondike Bridge Lyon County, IA; Lincoln County, SD

Located on the outskirts of the small town of Klondike, this long-span through truss crosses the Big Sioux River on the border between Lyon County, Iowa, and Lincoln County, South Dakota. The Klondike Bridge is comprised of a concrete-decked Pratt through truss, with Warren pony truss approach spans on both ends. Concrete abutments and piers support the three trusses. The first bridge was built here in 1901, but as traffic on this regionally important crossing increased over the succeeding years, that structure eventually proved inadequate. In August 1913 the Lyon County Board of Supervisors contracted with the Western Bridge and Construction Company of Omaha, which had built virtually all of the county's trusses for a number of years, to fabricate and erect a replacement structure here.

Western began excavating for the concrete substructure soon thereafter and, using steel rolled by the Cambria mills in Pittsburgh, erected the three-span truss later that year. For the pony trusses, Western used the newly developed design standard of the Iowa State Highway Commission. ISHC had not yet engineered a standard for a 160-foot through truss, however, and for this Western apparently used a truss of its own design, featuring both pinned and riveted connections. The structure itself was completed late in 1914, its fills early in 1915. "The Klondike Bridge is the newest structure linking Iowa to a neighboring state," the state highway commission reported in January 1915. "The handsome new steel structure, all complete except the filling, consists of two 40 foot pony truss approaches and a 100 foot high truss span over the river channel." Since its completion, the Klondike Bridge has carried interstate traffic in unaltered condition. It has more recently been superseded by another crossing and is now closed to vehicular traffic.

Before the standardization of bridge design in 1913, the individual counties were left to their own devices for their bridge construction. Some of the more prosperous counties could afford a full-time staff engineer or could hire consulting engineers for their bridge design, but most relied on the bridge companies that bid competitively for bridge construction projects. The Iowa State Legislature changed this process radically when it passed the Brockway Act in the spring of 1913, requiring the counties to use ISHC standards and effectively eliminating the design-build role of the regional and state bridge companies. The proliferation of standard plans occurred quickly in 1913 and 1914, so that the transition period was actually quite brief. In a few cases, though, in which no standard plans yet existed and ISHC did not produce special designs, non-standard structures were approved for construction. This is the case with the Klondike Bridge in Lyon County. Built using both standard and non-standard designs, the Klondike Bridge is historically significant for its representation of this brief transitional period in Iowa highway bridge construction. In well-preserved condition, the Klondike Bridge is an important resource from the formative period of Iowa's highway system.

**United States Department of the Interior
National Park Service**

**National Register of Historic Places
Continuation Sheet**

Section Number 9 Page 2 Klondike Bridge Lyon County, IA; Lincoln County, SD

Lyon County Board of Supervisors' Minutes, Book 4: page 57 (13 November 1901), Book 5: page 179 (11 August 1913), located at the Lyon County Courthouse, Rock Rapids IA.

Iowa State Highway Commission, **Service Bulletin** 3:1 (January 1915), page 16.

Field inspection by Clayton Fraser and Sheila Bricher-Wade, 9 February 1992.