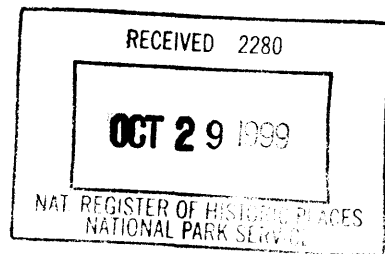


United States Department of the Interior
National Park Service



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 any 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 N/A
other names/site number South Dakota Dept. of Trans. Br. No. 06-129-020

2. Location

street & number Local road over the Big Sioux River not for publication
city or town Bruce Vicinity X
state South Dakota Code SD county Brookings code 011 zip code 57220

3. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act of 1986, 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.)

Jay D. Vogt
Signature of certifying official

10-04-99
Date

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 commenting or other official

Date

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

Date of Action

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

Contributing

Noncontributing

Buildings

Sites

1

Structures

Objects

1

Total

Number of contributing resources previously listed in the National Register 0

Name of related multiple property listing (Enter "N/A" if property is not part of a multiple property listing.) Historic Bridges in South Dakota

6. Function or Use

Historic Functions (Enter categories from instructions)

| | |
|---------------------|-------------------|
| Cat: Transportation | Sub: Road-related |
| _____ | (Vehicular) |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

Current Functions (Enter categories from instructions)

| | |
|---------------------|-------------------|
| Cat: Transportation | Sub: Road-related |
| _____ | (vehicular) |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

7. Description

Architectural Classification (Enter categories from instructions)

Other: Half-hip Pratt pony truss

Materials (Enter categories from instructions)

| | |
|------------|--------------|
| Foundation | Steel |
| Roof | _____ |
| Walls | _____ |
| Other | Metal: steel |
| | _____ |

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

See 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.)

- A** owned by a religious institution or used for religious purposes.
- B** removed from its original location.
- C** a birthplace or a 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.

Areas of Significance (Enter categories from instructions)

Commerce

Engineering

Period of Significance

1903-1942

Significant Dates 1903

Significant Person N/A

Cultural Affiliation N/A

Architect/Builder Iowa Bridge Company

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

See Continuation Sheets

9. Major Bibliographical References

(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
[X] Other State agency
___ Federal agency
___ Local government
___ University
___ Other

Name of repository: South Dakota Department of Transportation

10. Geographical DataAcreage of Property Less than 1 acre**UTM References**

(place additional UTM references on a continuation sheet.)

| | | | | | | | |
|---|-----------------|-----------------|-----------------|---|-----------------|-----------------|-----------------|
| 1 | <u>14</u> | <u>669320</u> | <u>4931030</u> | 3 | <u> </u> | <u> </u> | <u> </u> |
| | Zone | Easting | Northing | | Zone | Easting | Northing |
| 2 | <u> </u> | <u> </u> | <u> </u> | 4 | <u> </u> | <u> </u> | <u> </u> |
| | | | | | | | |

 See continuation sheet**Verbal Boundary Description** (Describe the boundaries of the property on a continuation sheet.) See Continuation Sheet**Boundary Justification** (Explain why the boundaries were selected on a continuation sheet.) See Continuation Sheet**11. Form Prepared By**name/title Jennifer Traeger & Johnson Johnsonorganization Renewable Technologiesdate Aug 1990street & number 510 Metals Bank Bldgtelephone 406-782-0494city or town Buttestate SDzip code 59701**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)

Br. No. 06-129-020

Name of Property

Brookings County, South Dakota

County and State

Property Owner

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

name _____

street & number _____

telephone _____

city or town _____

state SD

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 the 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 Project (1024-0018), Washington, DC 20503.

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National Register of Historic Places Continuation Sheet

Section number 7 Page # 1

Bridge No. 06-129-020 carries an unpaved road across the Big Sioux River about 5 miles north of Bruce in north-central Brookings County. The bridge comprises three spans: two steel stringer approaches (one at each end) and a 4-panel, pin-connected, half-hip, Pratt pony truss measuring about 70 feet in length. The truss webs are configured as follows: upper chords consist of back-to-back channel sections riveted to a continuous cover plate and batten plates; the verticals consist of two sets of back-to-back angle sections riveted together with V-lacing to approximate back-to-back channel sections; the diagonals and lower chords are paired, rectangular-section eyebars; the counters are cylindrical eyerods with turnbuckles. Bolted to hangar plates at the lower chord pin connections, the rolled I-beam floor beams carry I-beam stringers and double-layer wood decking. Sway bracing consists of back-to-back, angle-section knee braces, on the roadway side of the web, connecting the lower portions of the verticals to the top flange of the floor beams. The truss span rests on steel cylinder piers. Bottom lateral bracing consists of cross-braced cylindrical eyerods. The abutments for the approach spans are steel piling. Both abutments have back walls and wing walls composed of plank on the east and concrete on the west. All three spans are bordered by pipe-metal railings. Although the bridge's original approach span has probably been rebuilt, and an additional approach span has been added at the east end, the truss itself retains its original integrity.

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National Register of Historic Places Continuation Sheet

Section number 8 Page # 2

Statement of Significance

Bridge no. 06-129-020 is being nominated to the National Register of Historic Places as part of the "Historic Bridges in South Dakota" Multiple Property Nomination. It is related to the historic context of "Historic Bridges in South Dakota, 1893-1942" and is classified with the associated property type for iron and steel frame bridges. This bridge is individually eligible for the National Register under Criterion A as a representative example of important patterns of bridge construction in South Dakota during the 1890s and through the first two decades of the 20th century. A different out-of-state bridge builder tended to dominate bridge construction in each county. It is also eligible for the National Register under Criterion C as one of the two oldest bridges in the state built by the Iowa Bridge Company, a bridge building firm active in the Brookings county over a long term and South Dakota's most prolific bridge builder. The bridge retains very good integrity.

Around the turn of the 20th century, the homesteading boom west of the Missouri River coupled with the expanded agri-business east of the river led to an increased demand for reliable bridges in South Dakota. Accompanying the increase in bridge construction was the emergence of a pattern of business wherein almost every county in the state seemed to be dominated by a different bridge builder. This pattern began to be evident in the late-19th century. It grew even stronger after the turn of the century when the counties began turning to the system of awarding annual contracts for bridge work. Most typically, the counties awarded annual contracts to the same firm year after year. This relationship between the counties and the bridge firms was probably due to "pooling," an illegal but common practice across the country at this time. Under pooling arrangements, various bridge-building firms agreed to divide states among themselves, assigning particular counties to specific firms. Most such firms operating in South Dakota at this time were based out-of-state. This pattern of business remained strong in South Dakota until about 1920 when the State Highway Commission strengthened its control over bridge construction practices in the counties.

The activities of the Iowa Bridge Company of Des Moines are typical of the bridge-building business in South Dakota during this era. President of the company was James S. Carpenter, who had been a travelling agent for the N.M. Stark Company of Des Moines in the 1890s. Carpenter started the Iowa Bridge Company in Des Moines in about 1902 and was immediately successful in obtaining annual bridge contracts in South Dakota counties such as Bon Homme, Brookings, and Sanborn where his former employer had been active. During the first two decades of the 20th century, the company became the most active bridge-builder to operate in South Dakota and dominated bridge contracts in at least 11 counties. It held the annual contract in Brookings County from 1903 through 1918.

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Section number 8,9,10 Page # 3

In April 1903, the Brookings County Commissioners requested bids on 5 bridges, including a 70-foot, steel span at the present site. This structure was to have a 16-foot roadway and a 16-foot approach span on the west end. In May of the same year, the county board awarded a \$3,730 contract for all 5 structures to Iowa Bridge Company of Des Moines, inaugurating a 15-year period during which Iowa Bridge would build all of the county's bridges on a yearly contract. The company originally submitted 4 steel truss plans, ranging in cost from \$1,550 to \$1,710. County records, however, do not indicate which plan was accepted for this bridge. Although the bridge's original approach span has probably been rebuilt, and an additional approach span has been added at the east end, the truss itself retains its original integrity. Since the Iowa Bridge Company was the county's most important builder of trusses, Bridge No. 06-129-020 is of special interest as the earliest, surviving, documented example of the company's work in the state.

Bibliography

Brookings county Commissioners Records, April 11, May 26, 1903.

Verbal Boundary Description

The nominated property consists of a rectangle, 20 feet wide by 107 feet long, whose vertices coincide with the outside corners of the bridge abutments at each end of the bridge, and includes only the bridge superstructure and substructure.

Boundary Justification

Because the bridge is located on a public road, there are no legal boundary lines for the ends of the bridge. Therefore, these boundaries are drawn to encompass only the superstructure and substructure of the bridge itself.