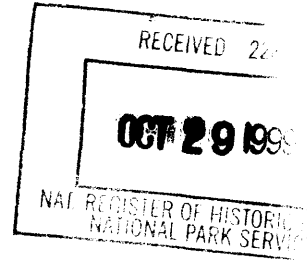


United States Department of the Interior  
National Park Service



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. 06-142-190

2. Location

street & number Local road over the Big Sioux River not for publication             
city or town Brookings Vicinity X  
state South Dakota Code SD county Brookings code 011 zip code 57006

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: Edson H. Beall  
 Date of Action: 11/30/99

**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



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### 8. Statement of Significance

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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)

\_\_\_\_\_  
Engineering  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Period of Significance

\_\_\_\_\_  
Circa 1910  
\_\_\_\_\_  
\_\_\_\_\_

**Significant Dates**    Circa 1910  
                                  1950  
                                  \_\_\_\_\_

**Significant Person**    N/A  
                                  \_\_\_\_\_

**Cultural Affiliation**    N/A  
                                  \_\_\_\_\_

**Architect/Builder**    unknown  
                                  \_\_\_\_\_

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

See Continuation Sheets

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**9. Major Bibliographical References**

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(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: South Dakota Department of Transportation

**10. Geographical Data**

**Acreage of Property** Less than 1 acre

**UTM References**

(place additional UTM references on a continuation sheet.)

1	<u>14</u>	<u>672150</u>	<u>4903730</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 Johnson  
organization Renewable Technologies date Aug 1990  
street & number 510 Metals Bank Bldg telephone 406-782-0494  
city or town Butte state SD zip 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. 06-142-190

Name of Property

Brookings County, South Dakota

County and State

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### Property Owner

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

name \_\_\_\_\_

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

telephone \_\_\_\_\_

city or town \_\_\_\_\_

state

SD

zip code \_\_\_\_\_

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**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.

United States Department of the Interior  
National Park Service

## National Register of Historic Places Continuation Sheet

Section number 7 Page # 1

Bridge No. 06-142-190 carries an unpaved road across the Big Sioux River about 2 miles southwest of the City of Brookings. The 221-foot structure consists of 2 spans: a 4-panel, pin-connected, Pratt pony truss on the west and a 4-panel Warren through truss on the east. The through truss is pin-connected at the bottom, and bolted or riveted at the top connections. At the top panel points, the upper chord is reinforced with bolted plates. For both spans, the substructure consists of steel piling with timber back walls and wing walls.

The pony truss web is comprised as follows: the upper chords consist of back-to-back channel sections riveted to a continuous cover plate above and batten plates below; the verticals consist of two sets of back-to-back angle sections riveted to V-lacing to approximate back-to-back channel sections in section; the diagonals, counters, and lower chords are paired eyerods. Carrying rolled I-beam stringers and double-layer wood decking, the floor beams of the pony truss are of "fish tail" configuration. They are bolted to angle sections, which, in turn, are riveted to hanger plates at the lower pin connections. The lower portions of the verticals are sway braced from the roadway side by angle-section knee braces. Bottom lateral bracing consists of cross braced cylindrical eyerods.

The web of the Warren through truss is comprised as follows: the upper chords consist of face-to-face channel sections riveted together with V-lacing; the diagonals consist of paired square-section eyerods in the end panels, and offset angle sections (approximating a "T" in section) riveted together with batten plates in the two center panels; the lower chords are paired eyerods. Carrying I-beam stringers and double-layer wood decking, the I-beam floor beams are bolted by means of riveted angle sections to hanger plates at the lower chord pin connections. Portal bracing consists of angle section knee braces and back-to-back angle section struts tied with flat-bar latticework. Overhead struts at panel points are also back-to-back angle sections. Top-lateral and bottom-lateral bracing consists of cross-braced cylindrical eyerods with turnbuckles.

Although the bridge was moved to its present location in 1950, it retains good integrity.



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

# **National Register of Historic Places**

## **Continuation Sheet**

Section number 8,9 Page # 2

### **Statement of Significance**

Bridge no. 06-142-190 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 C as a rare example of a pin-connected Warren through truss. The bridge retains good integrity.

When this bridge was built in the early 20th century, the pin-connected Pratt truss was the most widely used metal-truss type in South Dakota. The Warren truss type was rarely used in the state because it was not as well adapted for pin-connections as was the Pratt truss, the most commonly used bridge type at this time. Not until about 1910, after the riveted connection replaced the pin-connection as standard practice, did the Warren truss become more frequently used for steel bridges. The riveted Warren truss was the preferred bridge type for short spans until about 1920. The pin-connected Warren configuration of this bridge, therefore, represents an unusual type of which only a few are known to survive in the state. Only three surviving pin-connected Warren through trusses were inventoried in the state.

According to Brookings County Highway Department records, Bridge No. 06-142-190 was moved to its present site from the vicinity of Watertown in Codington County. This probably occurred about 1950, which is the "reconstruction date" listed for the bridge in the state highway department's files. Although there is no record of original construction date, the spans probably date from the first decade of the twentieth century.

### **Bibliography**

Survey Inventory and Appraisal Sheet for Bridge No. 06-142-190, 1987, South Dakota Department of Transportation.

United States Department of the Interior  
National Park Service

# National Register of Historic Places Continuation Sheet

Section number 10 Page # 3

## Verbal Boundary Description

The nominated property consists of a rectangle, 20 feet wide by 226 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.