

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 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. 51-124-136

**2. Location**

street & number Second Street over the Big Sioux River not for publication N/A  
city or town Egan vicinity N/A  
state South Dakota code SD county Moody code 101 zip code 57024

**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

01-09-2001  
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

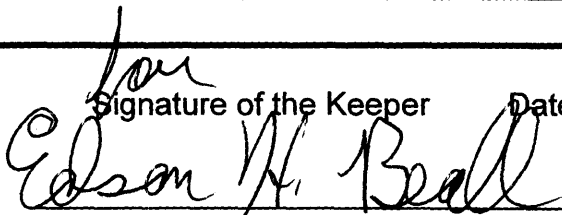
Date

**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  
 \_\_\_\_\_      2/9/01

**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	
0	0	buildings
0	0	sites
1	0	structures
0	0	objects
1	0	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

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**Period of Significance**

c. 1922

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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.

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# National Register of Historic Places Continuation Sheet

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## Architectural Description

Bridge 51-124-136 is located in the town of Egan, on the eastern edge, adjacent to the extinct town of Roscoe. It carries Second Street over the Big Sioux River. Aligned on an approximate east-west axis, the bridge is comprised of a single-span, 143-ft., rivet-connected, Parker through truss, with no approach spans. Overall length is 143ft.; deck width is 16 ft., carrying a 16-ft. roadway with no sidewalks. The substructure consists of the following: concrete abutments and backwalls support the deck; flared concrete angle-panels rise above the wingwalls to mark bridge corners. The remnants of two steel cassion piers from an earlier bridge at this site remain visible near the east abutment. The superstructure is steel, with components bearing the name BETHLEHEM on the diagonals and SCULLIN on the verticals. The superstructure of the main span is comprised as follows: the upper chords include channel sections, a continuous cover plate and lacing; the verticals display paired channel sections with lacing; the diagonals and lower chord are paired angle sections with batten plates. An historic angle section railing survives. The deck surface is concrete which dates to the historic period.



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# National Register of Historic Places Continuation Sheet

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## Statement of Significance

SD DOT Bridge Number 51-124-136 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 representative example of bridge construction in South Dakota during the 1920s. It is also eligible for the National Register under Criterion C as a rare bridge type in South Dakota, located in Moody County. The bridge retains excellent integrity.

Around the turn of the 20th century, the homesteading boom west of the Missouri River coupled with the extended agri-business east of the river led to an increased demand for reliable bridges in South Dakota. The eastern region's dependence on the export of farm products grew quickly during this time frame. The early 20<sup>th</sup> century witnessed a tremendous increase in the construction of new or replacement bridges, especially made of steel. The bridge at Second Street in Egan is a replacement bridge, to replace a bridge of a much earlier construction. The piers of the original crossing remain extant. The new bridge, constructed in 1922, was designed to allow for easy of vehicular traffic across the Big Sioux River.

As counties began to build larger bridges to cross the large rivers in South Dakota, county officials relied on engineering firms with experience in bridge design and construction. South Dakota followed national trends of using metal-truss bridges mostly for long spans, usually over 100 feet in length, and sometimes for short spans as well. To call an early bridge a through truss means that the deck or roadway of the bridge passes through or between the trusses, rather than resting on the top chord, in which case it would be called a deck truss. Through trusses also have overhead bracing to resist horizontal wind loads. Site conditions determined which type of bridge would be used at each crossing. Through truss bridges were generally selected when there was relatively little difference between the level of the road and the level of the water. Truss bridges receive their name from the manufacturer or designer of the particular system: Parker, Pratt, Warren.

The bridge located at the Big Sioux River crossing on Second Street reflects all of the characteristics of the Parker Through Truss bridge. SD DOT BR. NO. 51-124-136 followed national trends in that it

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is constructed using the metal-truss system. The deck of the bridge passes between the truss system and has overhead bracing. As there is very little difference between the water and road levels the through truss system was utilized.

According to the Historic Bridges in South Dakota, 1893-1942, MPL, a through truss bridge which is a Pin-connected Pratt, Riveted Parker or Riveted Warren Truss, are to be considered rare and representatives of an important design experiment. Bridge No.51-124-136 is located in Egan on Second Street over the Big Sioux River, in Moody County. A bridge first was erected at this crossing in the late 1800's and was replaced in 1922, when the county commissioners authorized a 143-ft. bridge. The bridge is eligible under Criterion C for it's engineering.

### Bibliography:

Moody County Commissioners Records, 1922.

Historic Bridges in South Dakota, 1893-1942, MPL.

Final report on Historic Bridges of South Dakota, November 1990.

### Verbal Boundary Description:

The nominated property consists of a rectangle, 21 feet wide by 143 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.