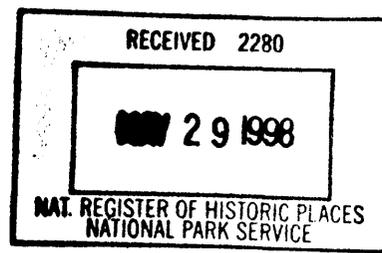


United States Department of the Interior
National Park Service

National Register of Historic Places
Registration Form



74141

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 Storm Creek Bridge

other names/site number _____

2. Location

street & number Phoenix Avenue over Storm Creek not for publication

city or town 4.0 miles northeast of Carroll vicinity

state Iowa code IA county Carroll code 027 zip code 51401

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 Ahlberg DSHPD 5-6-98
 Signature of certifying official/Title 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 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. Beal 6-25-98

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)

TRANSPORTATION/road-related

7. Description

Architectural Classification
(Enter categories from instructions)

other: steel Warren pony 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 4.0 miles northeast of Carroll, the Storm Creek Bridge spans Storm Creek in a rural Carroll County setting that has changed little since the structure's period of significance. A description of the structure follows:

span number: 1 construction date: 1913
 span length: 60.0' construction cost: \$2026.00 (engineer's estimate)
 total length: 64.0' current condition: fair
 roadway wdt.: 15.6' alterations: none

superstructure: steel, 4-panel, rigid-connected Warren pony truss
 substructure: concrete abutments and wingwalls
 floor/decking: concrete deck over steel stringers
 other features: upper chord and inclined end post: 2 channels with cover plate and lacing; lower chord: 2 angles with batten plates; vertical: 4 channels with continuous plate; diagonal: 2 angles with lacing; lateral bracing: 1 angle; floor beam: I-beam, field-bolted to vertical

Other than maintenance-related repairs and alterations noted above, the bridge remains essentially unaltered as it continues to carry vehicular traffic. The Storm Creek 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

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

Significant Dates

1913 (construction date)

Significant Person

(Complete if Criterion B is marked above)

N/A

Cultural Affiliation

N/A

Architect/Bullder

designer:

Iowa State Highway Commission

fabricator:

Standard Bridge Co.; Cambria Steel Co.

builder:

Standard Bridge Company, 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:

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

**National Register of Historic Places
Continuation Sheet**

Section Number 8 Page 1 Storm Creek Bridge Carroll County; Iowa

The Storm Creek Bridge is one of a series of riveted Warren pony trusses built in Carroll County in 1913; it is the prototypical example of what would become an Iowa State Highway Commission standard design. The bridge carries a secondary county road over Storm Creek some three miles northeast of Carroll. The structure consists of a 60-foot, rigid-connected Warren pony truss, supported by a concrete substructure. According to Carroll County records, the bridge traces its history to late 1912. In December of that year, the county board of supervisors awarded a contract to build all of the county's steel and wood bridges for 1913 to the Standard Bridge Company of Omaha. The following spring the Iowa State Highway Commission prepared designs for nine separate pony trusses, ranging in span length from 35 to 75 feet. In July 1913 the county authorized construction of fifteen steel bridges built from these designs. The ISHC's First Annual Report announced that the bridges were to be used "largely as standards for other counties desiring that type of bridge." The report concluded that the structures, "while not possessing the neat appearance or the rigidity of the slab floor type of bridge, seemed to be very much in demand by the counties having a considerable number of drainage ditches to span, which deserved cheaper construction...." The list included this 60-foot pony truss between Sections 9 and 10 of Grant Township, with an estimated cost of \$2026.00. Standard Bridge subsequently erected the bridges for the aggregate sum of \$29,174.00. Since its completion in 1913, this bridge has carried vehicular traffic with only minor, maintenance-related repairs.

The Iowa State Legislature passed the Brockway Act on April 9, 1913, largely in response to poor road and bridge contracting practices among the counties. As one of the act's key provisions, the newly reorganized state highway commission was directed to design (or approve designs for) all vehicular bridges costing more than \$2000.00. ISHC, under the direction of Designing Engineer C.B. McCullough, prepared so-called "special designs" for the major crossings. For the myriad small ditch and stream crossings across the state, ISHC developed standardized plans. These standards initially included concrete slabs and culverts and steel through and pony trusses. The plans submitted to Carroll County in the spring of 1913 represented the prototypes for ISHC's pony trusses: experimental designs that soon became the basis for the ISHC X-Series standards. This unimposing Carroll County span is thus technologically significant, because it represents one of the state's prototypical X-Series standards.

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

**National Register of Historic Places
Continuation Sheet**

Section Number 9 Page 2 Storm Creek Bridge Carroll County; Iowa

Iowa Department of Transportation, Structure Inventory and Appraisal: Structure Number 095240.

Carroll County Board of Supervisors' Minutes, Book G: page 292 (27 December 1912), page 344 (11 July 1913).

C.B. McCullough, "Standardization of Highway Bridge Practice," thesis, Iowa State College, page i.

First Annual Report of the Iowa State Highway Commission, page 26 (April 1913 to December 1914).

Field inspection by Clayton Fraser, 25 April 1992.