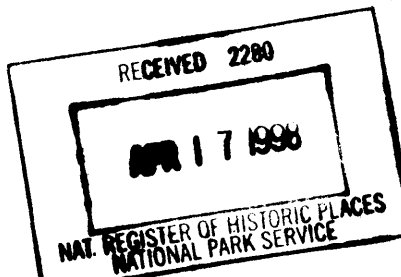


**United States Department of the Interior  
National Park Service**

**National Register of Historic Places  
Registration Form**



512

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 Gipple's Quarry Bridge

other names/site number \_\_\_\_\_

**2. Location**

street & number 100 Block V Avenue over Buffington Creek  not for publication

city or town 5.8 miles southwest of Columbus Junction  vicinity

state Iowa code IA county Louisa code 115 zip code 52738

**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 Christy DSITPD  
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)

TRANSPORTATION/road-related

**7. Description**

**Architectural Classification**  
(Enter categories from instructions)

other: pinned Pratt pony truss

**Materials**  
(Enter categories from instructions)

foundation Stone masonry  
walls \_\_\_\_\_  
roof \_\_\_\_\_  
other Steel

**Narrative Description**

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

Located 5.8 miles southwest of Columbus Junction, the Gipple's Quarry Bridge spans Buffington Creek in a rural Louisa County setting that has changed little since the structure's period of significance. A description of the structure follows:

|                     |                                              |
|---------------------|----------------------------------------------|
| span number: 1      | construction date: 1893                      |
| span length: 60.0'  | construction cost: \$587.00 (superstructure) |
| total length: 78.0' | current condition: fair                      |
| roadway wdt.: 15.7' | alterations: none                            |

superstructure: steel, 4-panel, pin-connected Pratt pony truss, with timber stringer approach span  
 substructure: stone masonry abutments and pier  
 floor/decking: timber deck over timber stringers  
 other features: upper chord/inclined endpost: two channels with cover plate and lacing; lower chord: two punched rectangular eyebars (sloped at outer panels); vertical: four angles with lacing; diagonal: two punched rectangular eyebars; counter: square eyebar with turn-buckle; lateral bracing: round eyerod with turnbuckle; floor beam: fishtail plate girder, field-bolted to vertical; guardrail: timber (not original)

Other than maintenance-related repairs, the bridge remains essentially unaltered as it continues to carry vehicular traffic. The Gipple's Quarry 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**

1893

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

**Significant Dates**

1893 (construction date)

**Significant Person**

(Complete if Criterion B is marked above)

N/A

**Cultural Affiliation**

N/A

**Architect/Builder**

designer:

Gillette-Herzog Manufacturing Company

fabricator:

Gillette-Herzog Mfg. Co.; Carnegie Steel Co.

builder:

Gillette-Herzog Manufacturing Company

**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 Data**Acreage of Property less than one acre**UTM References**

(Place additional UTM references on a continuation sheet)

1 15 633420 4562480  
zone easting northing2 \_\_\_\_\_  
zone easting northing**Verbal Boundary Description**

(Describe the boundaries of the property)

The nominated property is a rectangular-shaped parcel measuring 18 feet by 78 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 By**name/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 Louisa Countystreet & number P.O. Box 246 telephone 319-523-5271city or town Wapello state Iowa zip code 52653

**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   Gipple's Quarry Bridge Louisa County; Iowa

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In 1879, the Louisa County Board of Supervisors granted a petition by Thomas Stronach and other local residents to change the location of a county road in Elm Grove Township southwest of Columbus Junction. The changed alignment carried the road over Buffington Creek, necessitating construction of a new bridge in the summer of 1881. With its timber pile construction, the structure was predictably short-lived. Eleven years after its completion, nearby stone quarry owner T.J. Gipple petitioned the county for a new, more substantial bridge at this crossing. In April 1893 the board of supervisors opened bidding for a new iron bridge. A contract to supply the truss superstructure for this crossing - and for a bridge over Long Creek (LOUI11) in Columbus township - was awarded to the Gillette-Herzog Manufacturing Company of Minneapolis, Minnesota. (Cost: \$1174.00 for the two spans.) Using steel components rolled in Pittsburgh by Carnegie, Gillette-Herzog fabricated the medium-span pony trusses and erected them by September 1893. Both spans have since carried county-road traffic in essentially unaltered condition.

With its pin-connected detailing and Pratt design, the pony truss on the Gipple's Quarry Bridge typifies iron bridge construction in Iowa from the early 1890s. What distinguishes this structure from most of its peers is its unusual lower chord configuration, with the end panels sloped downward from the bearing shoes to the center panels. Only a handful of spans employing this Pratt truss variation has been identified by the historic bridge inventory. The Gipple's Quarry Bridge is thus technologically significant as a well-preserved, early, unusually designed example of wagon bridge construction in Iowa.

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

**National Register of Historic Places  
Continuation Sheet**

Section Number   9   Page   2   Gipple's Quarry Bridge Louisa County; Iowa

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Iowa Department of Transportation, Structure Inventory and Appraisal: Structure No. 224310.

Louisa County Board of Supervisors' Minute Book F: page 62 (7 June 1881), page 263 (3 April 1893), pages 265-266 (6 April 1893), page 295 (14 September 1893), located at the Louisa County Courthouse, Columbus Junction IA;

Louisa County Road Minute Book Number 1: pages 176-177 (no date), located at the Louisa County Courthouse, Columbus Junction IA.

Field inspection by Clayton Fraser, 16 August 1991.