



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 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 Quarry Bridge

other names/site number _____

2. Location

street & number County Road I-4 over Iowa River not for publication

city or town 5.4 miles east of Marshalltown vicinity

state Iowa code IA county Marshall code 127 zip code 50158

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 Wentz DSITPO 4-7-98
Signature of certifying official/Title 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):

E 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 Whipple through truss

Materials

(Enter categories from instructions)

foundation Course rubble stone

walls

roof

other Wrought iron

Narrative Description

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

Located 5.4 miles east of Marshalltown, the Quarry Bridge spans the Iowa River in a rural Marshall County setting that has changed little since the structure's period of significance. A description of the structure follows:

span number: 1 construction date: 1885
 span length: 150.0' construction cost: \$3295.00
 total length: 150.0' current condition: fair
 roadway wdt.: 15.9' alterations: minor repairs and replacement of members

superstructure: wrought iron, 9-panel, pin-connected Whipple through truss
 substructure: course rubble stone abutments and wingwalls on north side; concrete abutments over stone walls on south side

floor/decking: timber deck over timber stringers

other features: upper chord: 2 channels with cover and batten plates; lower chord: 4 punched rectangular eyebars; vertical: 2 channels with batten plates (2 square eyebars at the hips); diagonal: 2 punched rectangular eyebars; lateral bracing: round eyerod with turn-buckle; strut: 4 angles with lacing; floor beam: tapered "fishtail" plate girder with U-bolt connection; guardrail: timber; other: bolted connectors at diagonal intersection; builder's plate attached at portal: 1885 / Built By / King Iron Bridge Company / Cleveland, O.

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

1885

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

Significant Dates

1885 (construction date)

Significant Person

(Complete if Criterion B is marked above)

N/A

Cultural Affiliation

N/A

Architect/Builder

designer:

King Iron Bridge Company, Cleveland OH

fabricator:

King Iron Bridge Co.; Lackawanna Steel Co.

builder:

King and Twiss, Des Moines IA

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 Quarry Bridge Marshall County; Iowa

The bridge over the Iowa River near the town of Quarry in Le Grand Township was one of Marshall County's oldest spans when it collapsed during late spring flooding in 1885. In June the board of supervisors hired the Wright brothers, local contractors, to pull the wrecked structure from the river, and subsequently solicited competitive proposals from bridge companies for a replacement span. On July 1st the board awarded a construction contract to low-bidder King and Twiss of Des Moines for a 150-foot Whipple truss identical to the Stanley Mill Bridge, built by the county the year before. Using a superstructure fabricated by the King Iron Bridge Company of Cleveland, Ohio, the builders completed the bridge by September at a total cost of \$3295.00. The Quarry Bridge has carried traffic since, with the reconstruction of its north abutment with concrete the only major alteration of note.

As Marshall County's oldest originally placed wagon bridge, the Quarry Bridge is historically significant as an early wagon crossing. The structure is further distinguished as a well-preserved example of the Whipple through truss. Basically a Pratt with diagonals that extend over two panels, the Whipple truss was seldom employed for wagon trusses in the state. Few were ever erected and fewer yet remain today. For its exceedingly rare use of wrought and cast iron components, its rare truss configuration, and its long-standing role in regional transportation, the Quarry Bridge is a significant early transportation-related resource.

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

**National Register of Historic Places
Continuation Sheet**

Section Number 9 Page 2 Quarry Bridge Marshall County; Iowa

Iowa Department of Transportation, Structure Inventory and Appraisal: Structure No. 242320.

Proceedings from the Marshall County Board of Supervisors, 18 June 1885, 30 June 1885, 1 July 1885, June 1885, September 1885, located at the Marshall County Courthouse, Marshalltown IA.

Battin, Wm., & Moscrip, F.A., **Past and Present of Marshall County Iowa** (Indianapolis: B.F. Bowen & Co., 1912).

Field inspection by Clayton Fraser, 12 September 1988.