

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

**National Register of Historic Places
Continuation Sheet**

Section number _____ Page _____

SUPPLEMENTARY LISTING RECORD

NRIS Reference Number: 89002184

Date Listed: 1/4/90

Washington County Kingpost
Property Name

Washington
County

KS
State

Metal Truss Bridges in Kansas 1861--1939 MPS
Multiple Name

This property is listed in the National Register of Historic Places in accordance with the attached nomination documentation subject to the following exceptions, exclusions, or amendments, notwithstanding the National Park Service certification included in the nomination documentation.

Beth Boland

Signature of the Keeper

1/4/90

Date of Action

Amended Items in Nomination:

Item #2, Location: The correct county code is 201.

Item #6, Function: The correct current function is "Vacant/not in use."

Item #7, Description: The materials are 1) Metal: wrought iron or steel; and 2) Wood.

Item #8, Significance: The applicable area of significance is engineering only.

DISTRIBUTION:

- National Register property file
- Nominating Authority (without nomination attachment)

2184

United States Department of the Interior National Park Service

NOV 28 1989

National Register of Historic Places Registration Form

This form is for use in nominating or requesting determinations of eligibility for individual properties or districts. See instructions in Guidelines for Completing National Register Forms (National Register Bulletin 16). Complete each item by marking "x" in the appropriate box or by entering the requested information. If an item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, styles, materials, and areas of significance, enter only the categories and subcategories listed in the instructions. For additional space use continuation sheets (Form 10-900a). Type all entries.

1. Name of Property

historic name Washington County Kingpost other names/site number Washington County Kingpost

2. Location

1 miles south and .3 miles east of intersection of F.A.S. 578 and F.A.S. 1419 street & number on unmarked county road not for publication city, town Barnes vicinity state Kansas code KS county Washington code 121 zip code 66933

3. Classification

Table with 3 columns: Ownership of Property, Category of Property, and Number of Resources within Property. Includes checkboxes for private/public and building/site/structure/object, and a resource count table.

Name of related multiple property listing:

Metal truss bridges in Kansas

Number of contributing resources previously listed in the National Register

4. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act of 1966, 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. See continuation sheet. Signature of certifying official: [Signature] Date: Nov. 16, 1989

In my opinion, the property meets does not meet the National Register criteria. See continuation sheet. Signature of commenting or other official: _____ Date: _____ State or Federal agency and bureau: _____

5. National Park Service Certification

I, hereby, certify that this 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: Beth Boland Date of Action: 1/4/90

6. Function or Use

Historic Functions (enter categories from instructions)

Transportation: Road Related (Vehicular): Bridge

Current Functions (enter categories from instructions)

Transportation: Road Related (Vehicular): Bridge

7. Description

Architectural Classification

(enter categories from instructions)

Other: King Post Truss

Materials (enter categories from instructions)

foundation

walls

roof

other Metal: Wrought Iron or Steel

Describe present and historic physical appearance.

The Washington County King Post truss was erected ca. 1900 and is a rivited pony truss. The single span is 22 feet long and 14 1/2 feet wide. The wooden deck rises 12 feet above the creek bed. The bridge is located at a slight bend of the road and sits on a slight northwest-southeast alignment. This is often true with early bridges as this alignment allowed a right angle approach to the stream and a saving of money in both bridge length and amount of fill required.

The members of a truss bridge are designated either as chord members or web members. Chord members are those mainly defining the outlines of the structure and they are termed lower or upper chord members depending on whether they are found at the bottom or the top of the structure. Members between the chords are web members. They are called posts or ties if they sustain compression or tension respectively.

In the King Post truss such as the Washington County bridge, the end posts and top chord merge to form two sides, and the lower chord completes the triangle. The end post and top chord sides are in compression while the lower chord side is in tension. The Washington county bridge fabricated with the use of angle stock with rivited connections. The top chords, king post, and diagonals are made up of two angle plates rivited together to form a beam. The bottom chord is single. One floor beam is attached to the king post and the sway brace. This in turn supports an I beam running the length of the panel. The wood decking is laid diagonally on top of these I beams. The bridge has been abandoned and traffic is no longer allowed to pass over it. It is visible from the new alignment and has not been altered.

8. Statement of Significance

Certifying official has considered the significance of this property in relation to other properties:

nationally statewide locally

Applicable National Register Criteria A B C D

Criteria Considerations (Exceptions) A B C D E F G

Areas of Significance (enter categories from instructions)

Engineering
Transportation

Period of Significance

Ca. 1900
Ca. 1900

Significant Dates

Ca. 1900
Ca. 1900

Cultural Affiliation

n/a

Significant Person

n/a

Architect/Builder

Unknown

State significance of property, and justify criteria, criteria considerations, and areas and periods of significance noted above.

The King Post is one of the oldest truss designs, serving well in many medieval buildings. As is evident they served as well as bridges into the 20th century. Its simplicity also establishes its limit. As the length increases so must the height, at the same ratio. It is therefore only practical in short spans.

In Kansas eight King Posts still exist. Although the longest span is 56 feet, the average is closer to 40 feet. Six of the remaining bridges are located in Washington and Phillips counties. Single representatives are located in Brown and Labette counties. This would suggest that the design was more popular in the northeast portion of the state.

No actual construction history of the Washington County King Post has presently been located. Such structures were generally quite inexpensive and received little public notice. It was selected to be nominated because its all riveted construction suggests that it was a late example of the design, retains an outstanding degree of its integrity, and is a good representative of the class.

The Kansas Department of Transportation (KDOT) carried out a statewide inventory of historic bridges between 1980 and 1983. The bridges to be included were identified through computer printouts developed by KDOT, from information supplied by the counties (since almost all of the historic bridges were located on secondary rather than the primary road system), and by direct observation by field personnel. All bridges were inspected by KDOT personnel to verify the data on file. That information was jointly evaluated by representatives of KDOT, Kansas State Historical Society, and the State Historic Preservation Officer.

Each structure was evaluated using a points rating system adapted from the points evaluation rating developed by the Ohio Department of

See continuation sheet

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National Park Service

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Transportation and Ohio Historic Preservation Office. Consideration was given to areas such as age, builder, number of spans, length, special features, history, integrity, surviving numbers, and preservation potential.

In many instances there is little information about individual structures. Often bridge plaques which may have contained information have been removed, or the county's records are not complete or have been destroyed. Due to the large numbers of similar structures there is often little to choose from in differentiating among individual bridges other than condition and the likelihood of preservation.

The purpose of the KDOT study and subsequent evaluation was to identify a representative selection of bridges of each class. Through this approach KDOT and KSHS hope to preserve for posterity some examples of each type.

9. Major Bibliographical References

Victor C. Darnell, American Bridge Building Companies, Washington, DC:
Society for Industrial Archeology Occasional Publication 4, 1984.

David Weitzman, Traces of the Past: A Field Guide to Industrial Archeology,
New York: Charles Schribner's Sons, 1980.

James L. Cooper, Iron Monuments to Distant Posterity, DePauw University,
F.H.W.A., Indiana Dept. of Highways, Indiana Dept. Natural Resources,
N.P.S., 1987.

Dan G. Deibler, A Survey and Photographic Inventory of Metal Truss Bridges
in Virginia, Charlottesville: Virginia Highway & Transportation
Research Council, 1975.

See continuation sheet

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

Specify repository:

Kansas State Historical Society

10. Geographical Data

Acreeage of property less than one acre

UTM References

A 14 683840 4389680
 Zone Easting Northing

C

B
 Zone Easting Northing

D

See continuation sheet

Verbal Boundary Description

The nominated property is located on the NW 1/4, NW 1/4, NE 1/4, NW 1/4, section 10, township 5 south, range 5 each, on a tract measuring 22' x 14 1/2' whose northwest corner is represented by the northwest corner of the bridge. Beginning at the northwest corner the boundary proceeds 22' southeast, 14 1/2' southwest, 22' northwest and 14 1/2' northeast to the point of beginning.

See continuation sheet

Boundary Justification

The boundary includes only that area that is historically associated with the nominated property.

See continuation sheet

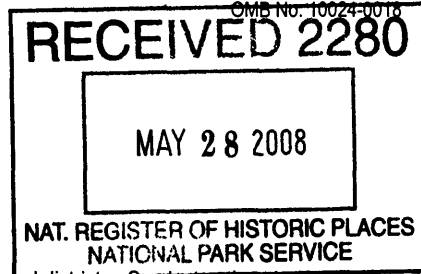
11. Form Prepared By

name/title Larry Jochims

organization Kansas State Historical Society date September 20, 1989

street & number 120 W. 10th telephone (913) 296-3251

city or town Topeka state KS zip code 66612



8900001

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 10-9000a). Use a typewriter, word processor, or computer, to complete all items.

1. Name of Property

Historic name Washington County Kingpost Bridge
Other name/site number 201-0000-0027

2. Location

Street & number SW corner of int. of K-9 & Center Street not for publication
City or town Barnes vicinity
State Kansas Code KS County Washington Code 201 Zip code 66933

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.)

Patrick Zollner

5/28/08

Patrick Zollner, Deputy State Historic Preservation Officer
Kansas State Historical Society

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 official / Title _____ Date _____

State or Federal agency and bureau _____

4. National Park Service Certification

I hereby certify that the property is

Signature of the Keeper

Date of Action

- entered in the National Register. *[Signature]* _____
- 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:)

More Appraised

Linda McClelland *7/9/08*

Washington County Kingpost Bridge
Name of Property

Washington County, Kansas
County and State

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	
_____	_____	buildings
_____	_____	sites
1	_____	structures
_____	_____	objects
1	_____	total

Name of related multiple property listing
(Enter "N/A" if property is not part of a multiple property listing.)

Metal Truss Bridges in Kansas

Number of contributing resources previously listed in the National Register

1

6. Function or Use

Historic Functions
(Enter Categories from instructions)

Transportation: road-related (vehicular)

Current Functions
(Enter categories from instructions)

Vacant/Not in Use

7. Description

Architectural Classification
(Enter categories from instructions)

Other: King Post Truss

Materials
(Enter categories from instructions)

Foundation:
Walls:

Roof:

Other: Metal: Wrought Iron or Steel

Narrative Description

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

Washington County Kingpost Bridge

Name of Property

Washington County, Kansas

County and State

8. Statement of Significance

Applicable National Register Criteria

(Mark "X" in one or more boxes for the criteria qualifying the property for National Register)

- 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 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 one or more continuation sheets.)

Areas of Significance

(Enter categories from instructions)

Transportation

Engineering

Period of Significance

c. 1900

Significant Dates

c. 1900

Significant Person

(Complete if Criterion B is marked above)

N/A

Cultural Affiliation

N/A

Architect/Builder

Unknown

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:

- X State Historic Preservation Office
Other State agency
Federal agency
Local government
University
Other

Name of repository:

Kansas State Historical Society

Washington County Kingpost Bridge
Name of Property

Washington County, Kansas
County and State

10. Geographical Data

Acreage of Property Less than one acre

UTM References
(Place additional UTM references on a continuation sheet.)

1

1	4	6	8	2	1	8	0	4	3	9	7	6	8	0
Zone		Easting						Northing						

2

Zone		Easting						Northing						

3

Zone		Easting						Northing						

4

Zone		Easting						Northing						

See continuation sheet

Verbal Boundary Description
(Describe the boundaries of the property on a continuation sheet.)

Boundary Justification
(Explain why the boundaries were selected on a continuation sheet.)

11. Form Prepared By

Name/title KSHS Staff

Organization Kansas State Historical Society Date February 20, 2008

Street & number 6425 SW Sixth Avenue Telephone 785-272-8681 ext. 240

City or town Topeka State KS Zip code 66615

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 SHPO or FPO for any additional items)

Property Owner

Name Washington County

Street & number 214 "C" Street Telephone _____

City or town Washington State KS Zip code 66968

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

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Washington County Kingpost Bridge
Washington County, Kansas

RELOCATION APPROVAL

Erected circa 1900, the Washington County Kingpost Bridge is a single span, King Post truss 22 feet long and 14.5 feet wide. Listed in the National Register of Historic Places on 1/04/1990, the bridge is located in Lincoln Township, 4.5 miles southeast of Barnes on All American Road and .3 miles east on 5th Road. The road is no longer maintained and the site is overgrown with trees, brush, and other vegetation. When the wood deck deteriorated, the bridge was bypassed by a new section of road with a culvert to the west. Because of maintenance concerns, the county commissioners offered the bridge to the City of Barnes, and the city council agreed to accept the bridge. The proposed new location is over an existing drainage ditch on city property west and adjacent to the "Welcome to Barnes" sign that is on the southwest corner of the intersection of Kansas Highways 9 and 148 and Center Street.

Relocation Plan

The Washington County Kingpost Bridge is being moved because of a concern for its well being. The road upon which it sits is no longer maintained or open to vehicle or pedestrian traffic. Washington County owns the bridge and is committed to saving the bridge from further neglect by relocating it. The decision to move (rather than demolish) the bridge came, in part, because the bridge is intact and in fair condition. The loss of integrity will be almost exclusively to the environs. While efforts are being made to site the bridge nearby and orient it in a similar environment, it will lose its original surroundings.

The Washington County Public Works Department will be preparing and moving the Kingpost Bridge to its new location in nearby Barnes. The city council agreed to accept the bridge and will place it over an existing natural drainage ditch located west and adjacent to the "Welcome to Barnes" sign that is on the southwest corner of the intersection of Kansas Highways 9 and 148 and Center Street. The bridge will be used for pedestrian traffic.

The vegetation and gravel roadway will be cleared from the bridge to reveal any remaining wooden decking. The wooden decking will be removed – and salvaged if possible – to reveal the iron and steel bridge structure. The metal bridge structure will be loosened from the roadway footings using tools and chisels, but will remain intact as a single piece. Meanwhile, the City of Barnes will prepare the new location for placement with concrete footings and pedestrian-traffic approaches. A crane will then remove the structure from its footings and place it on a flatbed truck for transportation to its new location. The iron and steel structure will then be lifted into place by the crane on its new concrete base and secured with concrete foundation pads. The wooden deck will be reused where possible and any replacement pieces will be fitted to match the existing decking. Following the Secretary of the Interior's

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Washington County Kingpost Bridge
Washington County, Kansas

Standards, repairs after relocation will be made as needed to the metal trusses and supports by the City of Barnes. Efforts will be taken throughout the project to minimize damage and preserve the materials.

The City of Barnes will assume perpetual maintenance of the bridge at its new location. The City will apply for matching funds and/or grants to help in the restoration process following approval of the relocation. Signage explaining the bridge's historic significance is planned. Washington County and the City of Barnes wish to save the bridge and encourage visitors to stop and see the bridge.

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National Park Service**

**National Register of Historic Places
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Washington County Kingpost Bridge
Washington County, Kansas

CRITERIA CONSIDERATION B

The proposed relocation of the Washington County Kingpost Bridge will not affect the integrity or the significance of the structure, which was nominated under Criterion C for its engineering significance as one of only eight King Post bridges still extant in Kansas. As part of the move, the Washington County Kingpost Bridge will be restored, and the new location next to a state highway will provide more people with the opportunity to view the rare structure. In its current location, the bridge is not accessible and there is no signage acknowledging its existence or historical significance.

ARCHEOLOGICAL REVIEW OF PROPOSED NEW SITE

The Kansas State Historic Preservation Office has reviewed its cultural resources files for the area proposed for relocation of the Washington County Kingpost Bridge in accordance with 36 CFR 800. The proposed new location is situated at the western edge of Barnes in eastern Washington County. It lies along an intermittent tributary of Camp Creek in an area that possesses low potential for archeological sites. The proposed new bridge location along an existing railroad grade possesses low potential for archeological sites. The proposed bridge relocation project should therefore have no effect on properties listed in the National Register of Historic Places or otherwise identified in our files. This office has no objection to the implementation of the project.

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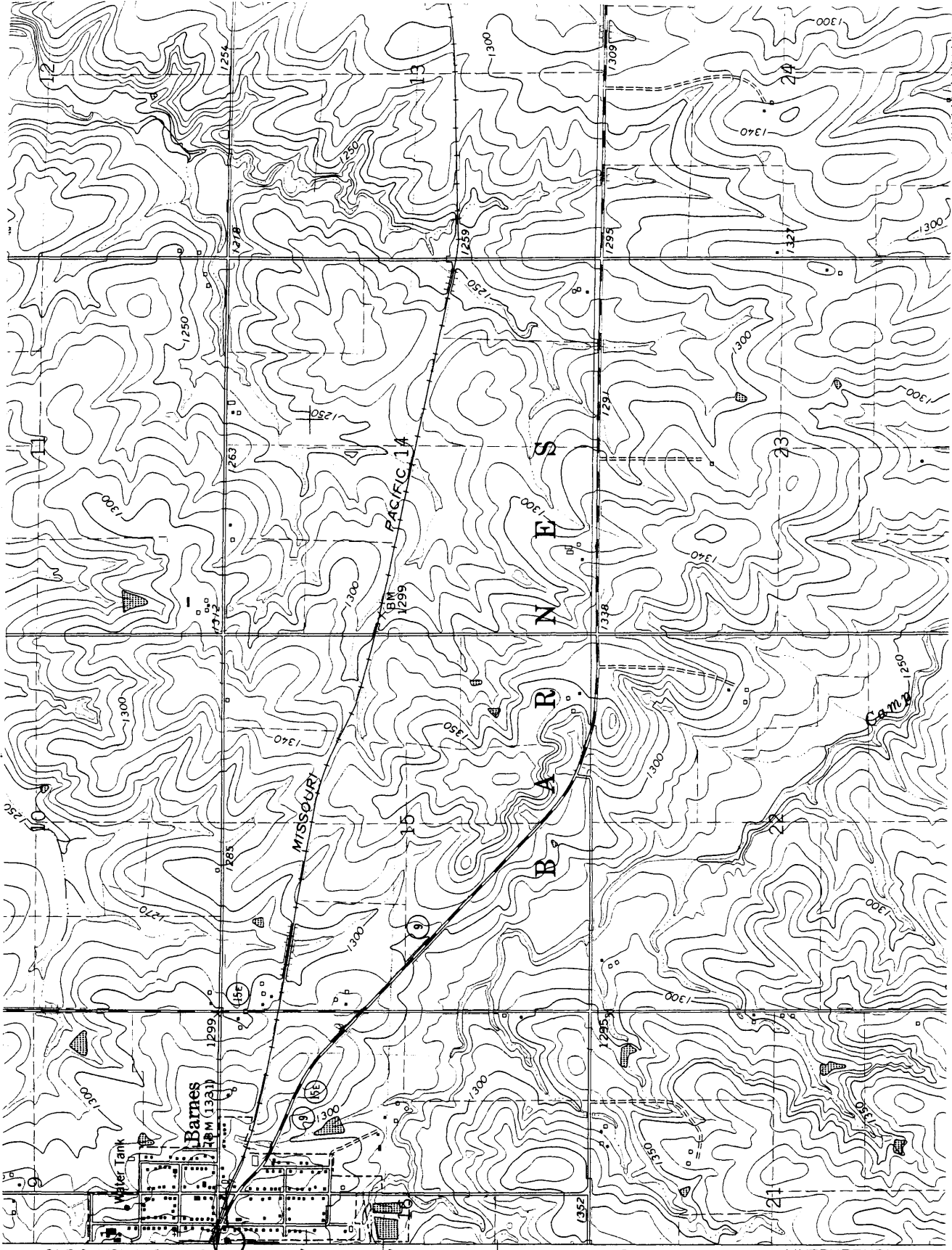
Washington County Kingpost Bridge
Washington County, Kansas

PHOTOGRAPIC INFORMATION

Property Name: Washington County Kingpost Bridge
Location: Washington County, KS
Photographer: Patrick Zollner
Date: March 2006

Negatives on file at the Kansas State Historical Society

Photo 1: Current view of bridge from the northwest
Photo 2: View of proposed new location from the north
Photo 3: View of proposed new location from the east
Photo 4: View of proposed new location from the west



9 MI. TO KANS. 148 & 15
 LINN (VIA KANS. 9) 12 MI.

Washington Co. Kingpost-
 Bridge
 Washington Co. Kansas
 Proposed new location
 UTM Coordinates:
 14/662100/4207680

42'30"

497

496

6663 III NW
 (GREENLEAF)