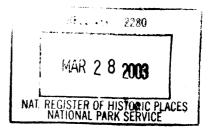
### National Register of Historic Places Registration Form

1. Name of Property			
Historic name:	N/A		
Other name/site number:	Wea Creek Bowstr	ing Arch Truss Bridge (preferr	ed); Bull Creek Bridge; Miller
_		ar Groove Fastened Bridge; 61-	
	Double 1 ubula	il Gloove l'asiened Diluge, 01-	1.1-00
2 Tantian On the group	nds of the Kansas State Hi	storical Society, 6425 SW 6th	Avenue: annroximately 200
		Storical Society, 6425 5 W 6 1	ivenue, approximately 200
yards west of the main mu	seum building.		
			not for publication
city or town Topeka			N/A vicinity
state code KS	ounty Shawnee	county code 177	zip code 66615
standards for registering and professional requirem not meet the National Reg	properties in the Nation ents set forth in 36 CFF ister criteria. I recomm		aces and meets the procedural e property XX meets does onsidered significant onal comments.)
Signature of certifyin	g official	Date	
KANSAS STATE HISTORICAL S	OCIETY		
State or Federal agenc	y and bureau		
In my opinion, the proper ( See continuation she	ty <u>meets</u> does no et for additional commer	ot meet the National Registe:	r criteria.
Signature of commentin	g or other official	Date	
State or Federal agenc	y and bureau	The state of the s	
4. National Park Service	Certification		
I, hereby, certify that t	his property is:		
entered in the Nation See continuation			
determined eligible f	or the National Register	· ·	
	le for the National Regi	ister.	
removed from the Nati other, (explain:)	onal Register.		
0	illand	5/09/1	93
Signature of Keeper		Date of Act	ion





# National Register of Historic Places Registration Form

1. Name of Property	
Historic name: <u>N/A</u>	
Other name/site number: Wea Creek B	owstring Arch Truss Bridge (preferred); Bull Creek Bridge; Miller
Double T	Fubular Groove Fastened Bridge; 61-LT-06
2. Location On the grounds of the Kansas Sta	ate Historical Society, 6425 SW 6th Avenue; approximately 200
yards west of the main museum building.	
	not for publication
city or town Topeka	N/A vicinity
state code KS county Shawnee	county code 177 zip code 66615
certify that this <u>nomination</u> request f standards for registering properties in the and professional requirements set forth in 3 not meet the National Register criteria. I r	nal Historic Preservation Act of 1986, as amended, I hereby for determination of eligibility meets the documentation National Register of Historic Places and meets the procedural 36 CFR Part 60. In my opinion, the propertymeetsdoes recommend that this property be considered significant e continuation sheet for additional comments.)  Date
State or Federal agency and bureau  In my opinion, the propertymeetsdo (See continuation sheet for additional c	pes not meet the National Register criteria.
Signature of commenting or other official	Date
State or Federal agency and bureau	
4. National Park Service Certification	
I, hereby, certify that this property is:	
entered in the National Register.  See continuation sheet  determined eligible for the National Reg  See continuation sheet  determined not eligible for the National  removed from the National Register.  other, (explain:)	Register.
Signature of Keeper	Date of Action

surreplacement page & SAPO cert,

Property Name Wea Creek E	Sowstring Arch Truss Bridge		
County and State Shawnee, Ka	nsas		Page <u>2</u>
5. Classification			
Ownership of Property private public-local X public-State public-Federal	Category of Property building(s) district site X structure object	No. of Resource contributing  1 1	s within Property noncontributing buildings sites structures objects O
Name of related multiple prope (Enter "N/A" if property is no multiple property listing.):			ting resources previously ational Register
Metal Truss Bridges in Kansas	····	0	
6. Functions or Use			
Historic Functions (Enter categories from instruc	tions.)	Current Functions (Enter categories f	rom instructions.)
TRANSPORTATION: Road-related	(vehicular)	TRANSPORTATIO	ON: Road-related (vehicular)
7. Description			
Description			
Architectural Classification (Enter categories from instruc-	tions.)	Materials (Enter categoria	es from instructions.)
OTHER: Bowstring Truss			oncrete, Stone
			Wrought Iron

USDI/NPS NRHP Registration Form

Property Name	Wea Creek Bowstring Arch Truss F	<u> Bridge</u>	
County and State_	Shawnee, Kansas		Page <u>3</u>
8. Statement of	Significance		
	al Register Criteria (Mark "x" in onal Register listing.)	one or more boxes for the criter	ria qualifying the
A Property i of our hist	s associated with events that have cory.	made a significant contribution	n to the broad patterns
B Property is	s associated with the lives of per	sons significant in our past.	
or represer	mbodies the distinctive characterints the work of a master, or posse guishable entity whose components	sses high artistic values, or re	
D Property ha	as yielded, or is likely to yield,	information important in prehis	tory or history.
Criteria Considera	ations (Mark "x" in all the boxes	that apply.)	
A owned by a	religious institution or used for	religious purposes.	
B removed from	om its original location.		
C a birthplac	ce or a grave.		
D a cemetery.		•	
E a reconstru	acted building, object, or structu	re.	
Fa commemora	ative property.		
Gless than 5	50 years of age or achieved signif	icance within the past 50 years.	
Areas of Signification	ance from instructions.)	Period of Significance	Significant Dates
ENGINEERING		1870	1870
TRANSPORTATIO	N		
	· · · · · · · · · · · · · · · · · · ·	·	
		Cultural Affiliation N/A	
		N/ A	
Significant Person	1	Architect/Builder	
_N/A		Buckeye Bridge Works (Cleveland	d, Ohio)

Property Name Wea Creek Bowstring Arch Truss Bridge	
County and State Shawnee, Kansas	Page <u>4</u>
9. Major Bibliographical References	
(Cite the books, articles, and other sources used in preparing t sheets.) $ \\$	his form on one or more continuation
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 Specify repository:
10. Geographical Data	
Acreage of property <u>&lt;1 acre</u> UTM References 1 1/5 2/5/9/6/4/0 4/3/2/6/4/5/0 3 / ///// Zone Easting Northing Zone Easting 2 / ///// //// 4 / /////	
See cont	tinuation sheet
Verbal Boundary Description (Describe the boundaries of the prop	erty on a continuation sheet.)
Boundary Justification (Explain why the boundaries were selected	on a continuation sheet.)
11. Form Prepared By	<u> </u>
name/title Kerry Davis, Architectural Historian & Elizabeth Rosin, Partn	
	date <u>August 5, 2002</u>
	telephone (816) 221-5133
city or town Kansas City	state <u>Missouri</u> zip code <u>64105</u>
Additional Documentation	
Submit the following items with the completed form: Continuation Sheets Maps	
A USGS map (7.5 or 15 minute series) indicating the propert A sketch map for historic districts and properties having 1 Photographs  Representative black-and-white photographs of the property. Additional items (Check with the SHPO or FPO for any additional	arge acreage or numerous resources.
Property Owners (Complete this item at the request of the SHPO	or FPO.)
Na me Kansas State Historical Society	
street & number 6425 SW 6 <sup>th</sup> Avenue	telephone785-272-8681
	state KS zip code 66615

### NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section Number 7 Page 1

Wea Creek Bowstring Arch Truss Bridge Shawnee County, Kansas

#### **DESCRIPTION**

#### LOCATION AND SETTING

The Wea Creek Bowstring Arch Truss Bridge is located on the grounds of the Kansas State Historical Society in northeast Kansas; on the NW ¼ of Section 32, Township 11S, Range 15E. The region is defined by rounded hills and broad, tree-lined valleys. The Wea Creek Bowstring Arch Truss Bridge carries a gravel footpath across an unnamed, intermittent tributary of the Kansas River. The footpath leads from the west edge of a parking lot through an area of reestablished prairie, past a restored 1877 schoolhouse, and north across the Wea Creek Bowstring Arch Truss Bridge.

#### TRUSS TYPE

The Wea Creek Bowstring Arch Truss Bridge is a single span Miller double tubular wrought iron pony truss<sup>1</sup> that measures 69 in length and 13 feet in width.<sup>2</sup> Stout, irregular-coursed, rough-cut limestone and concrete abutments support the "abutment shoes" of the truss that rest directly on the abutment seats.

The top chords create the wide parabolic shape distinctive to a Bowstring truss. The patented design of the top chords consists of fluted cover and bottom plates with interior grooves to receive vertical plate stock to form a square tube. The bottom chords consist of paired flat bars.

The web members include paired vertical rods that form eight equivalent panels and diagonal tie rods that intersect within the six central panels. Each rod is threaded at both ends. The lower end is inserted through a cast-iron plate below the paired bars of the bottom chord and fastened by a bolt. The upper end is inserted through the tubular top chord and secured. A bolt fastens the vertical members and a cast-iron "upset shoulder" fastens the diagonal members. The upset shoulder essentially functions as a bolt, but each is cast to accommodate a specific diagonal member and the angle at which it intersects the cover plate of the top chord. Marriage marks are visible at each upper node.

The timber deck is 13 feet wide and rises 14 feet above the creek bed on I-beam stringers. Floor beams located at the lower nodes are connected by lower lateral bracing rods.

#### **INTEGRITY**

The Wea Creek Bowstring Arch Truss Bridge is an excellent example of this bridge type and one of only about ten still existing in Kansas. In addition, it is one of the last remaining examples in the United States of the Miller double tubular patent and one of only two Miller patent bowstring truss bridges in Kansas. Although relocated in 1988, the Wea Creek Bowstring Arch Truss Bridge retains a good degree of integrity. As described in the *Multiple Property Documentation Form for Metal Truss Bridges in Kansas*, historically, moving bridges was a common practice and does not adversely affect a structure's significance, and the original workmanship, design, and feeling of the structure are readily apparent. Furthermore, the potential for preservation of the bridge is high. Serving as a footbridge on the grounds of the Kansas State Historical Society, restrictive covenants ensure the maintenance and preservation of the Wea Creek Bowstring Arch Truss Bridge.

<sup>&</sup>lt;sup>1</sup> A pony truss is also referred to as a low truss.

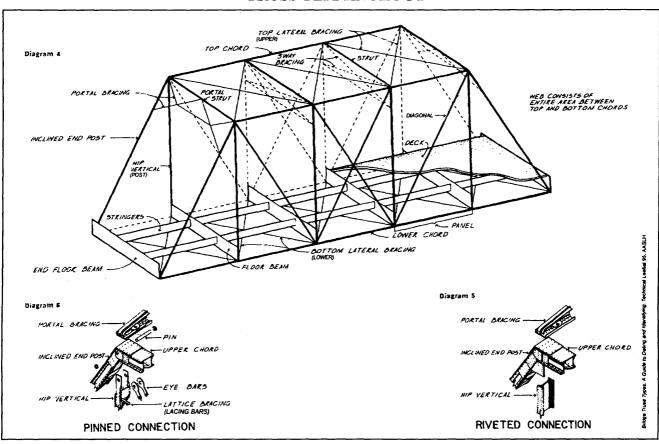
<sup>&</sup>lt;sup>2</sup> Unless otherwise noted, the information herein is taken from Dale Nimz, Miller Double Tubular Groove Fastened Wrought Iron Bridge, National Register of Historic Places Registration Form, (Topeka: Kansas State Historical Society, c.1998). This draft nomination was never submitted to the National Park Service.

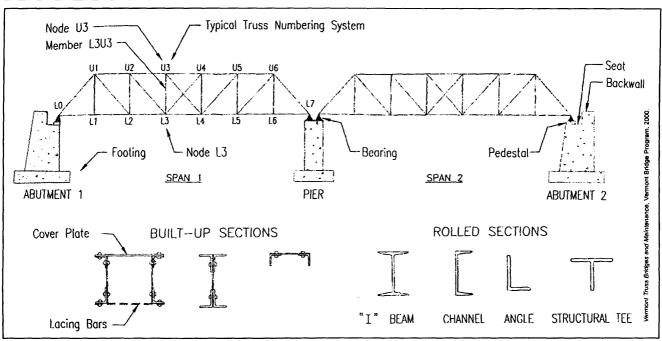
# NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section Number 7 Page 2

Wea Creek Bowstring Arch Truss Bridge Shawnee County, Kansas

#### TRUSS TERMINOLOGY





## NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section Number 8 Page 3

Wea Creek Bowstring Arch Truss Bridge Shawnee County, Kansas

#### STATEMENT OF SIGNIFICANCE

The Wea Creek Bowstring Arch Truss Bridge is significant under National Register Criterion C in the areas of Engineering and Transportation. As defined by the *Multiple Property Documentation Form for Metal Truss Bridges in Kansas*, it is an excellent example of the Bowstring truss bridge type. Built in 1870, the Wea Creek Bowstring Arch Truss Bridge is a rare survivor of this once common bridge truss type. It is one of the last remaining examples in the United States of the Miller double tubular patent and one of only two in Kansas. In addition, it may have been the first application of the patent west of the Mississispipi River. Its wrought iron construction illustrates the standard use of this material during the period of significance. As no consistent historic name identifies this bridge, the preferred name "Wea Creek Bowstring Arch Truss Bridge" has been assigned. This describes the historic location, design, and function of the structure.

#### **ELABORATION**

The need for all-weather crossings of rivers and streams corresponded to the growth of the market economy across Kansas during the late nineteenth and early twentieth centuries. Bridges provided farmers easy access to markets and could make the difference between growth and stagnation for the many small, young communities across the state. Proximity to a bridge often secured a town's economic stability, and it contributed to a local sense of modernity.

Prior to the 1930s, the railroad was the primary means of long-distance travel and there was little need for roads to extend more than a few dozen miles. With little stimulus for improving roads that would cross multiple jurisdictions, road construction and maintenance remained local concerns. County commissioners often carried the burden of selecting bridge locations, over which much contention was common.

The range of choices for bridge designs and companies was vast. Many of the larger bridge companies sold metal truss bridges through mail order catalogues. County commissioners could simply specify the span, clearance needs, and truss type (if there was a preference), then choose the lowest bidder from the numerous competing companies that had salesmen in the field.

By the late nineteenth century, fabrication of iron and steel was widespread. The speed of construction and the relatively low cost of metal truss bridge parts ensured their popularity over labor-intensive masonry bridges and short-lived timber bridges. The wrought iron construction of the Wea Creek Bowstring Arch Truss Bridge is typical of bridges built during its period of significance. Toward the end of the nineteenth century, the quality, quantity, and cost of steel improved to such a degree that it virtually replaced wrought iron for bridge construction by 1910.<sup>2</sup>

Most metal trusses were constructed of built-up members composed of mass-produced, standard-shaped channel, plate, and angle stock purchased from one or more of the numerous steel companies nationwide. The bridge

<sup>2</sup> Ibid, F.

<sup>&</sup>lt;sup>1</sup> Larry Jochims, Metal Truss Bridges in Kansas 1861-1939, National Register of Historic Places Multiple Property Documentation Form, (Topeka: Kansas State Historical Society, 1989), E.

# NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section Number 8 Page 4

Wea Creek Bowstring Arch Truss Bridge Shawnee County, Kansas

companies preassembled trusses in their factories then simply shipped them to the bridge site for installation. Installation involved grading approaches, constructing abutments and piers, erecting preassembled floor and truss members, and placing deck material.

Before 1900, generally all panel point connections – the locations at which structural bridge elements intersect – were made with the use of a pin. This technique was so widespread that it became one of the distinctive features of American bridge construction in the nineteenth century.<sup>3</sup> However, subsequent advancements in pneumatic riveting techniques greatly improved rivet installation quality, enabling more reliable panel point connections. With the increased portability of this construction technology, the more rigid riveting technique rapidly surpassed pin-connected bridge construction during the first years of the twentieth century. The bolt-fastened structure of the Wea Creek Bowstring Arch Truss Bridge is an example of a typical construction technique used prior to the widespread standardization of the pin-connected technique.

In addition, the contemporary development of economic cement production promoted the widespread combination of steel and concrete in bridge construction. It was not uncommon for older metal truss bridges to receive new reinforced concrete decks or poured concrete reinforcements for older stone abutments. By the 1920s, reinforced concrete was the standard material for abutments, piers, and decks of steel truss bridges.

The Wea Creek Bowstring Arch Truss Bridge is a classic example of this truss design. Patented by Squire Whipple in 1840, the bowstring arch truss is essentially an arch bridge in which the deck is supported by the top chords, thus placing all vertical members in tension. The bottom chords resist the horizontal thrust of the arch. The diagonal members serve as bracing. The bowstring arch truss became a very common truss type during the late nineteenth century and spawned numerous variations, including the Miller double tubular patent illustrated by the Wea Creek Bowstring Arch Truss Bridge.

The bowstring arch truss bridge type is the oldest truss type found in Kansas.<sup>5</sup> During the 1870s, it was the most popular bridge type and often represented the first public improvement expenditure made in many counties across the state. In 1998, approximately twelve bowstring arch truss bridges, including the Wea Creek Bowstring Arch Truss Bridge, existed throughout the state of Kansas.<sup>6</sup>

#### STRUCTURE HISTORY

Buckeye Bridge Works of Cleveland, Ohio, a prolific metal truss bridge builder in the Midwest, constructed the Wea Creek Bowstring Arch Truss Bridge in 1870 as part of a triple-span bridge across Bull Creek at the Osawatomie, crossing after the previous bridge was lost to floodwaters on July 11,1869. Local citizens

<sup>3</sup> Ibid. F

<sup>&</sup>lt;sup>4</sup> T. Allan Comp and Donald Jackson, *Bridge Truss Types: A guide to dating and identifying.* (Nashville, Tennessee: American Association for State and Local History, Technical Leaflet 95), 8.

<sup>&</sup>lt;sup>5</sup> Jochims, E.

<sup>&</sup>lt;sup>6</sup> Nimz. 6.

<sup>&</sup>lt;sup>7</sup> Little else is known of the company except that there are a handful of surviving examples of their work in Nebraska and Michigan.

## NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section Number 8 Page 4

Wea Creek Bowstring Arch Truss Bridge Shawnee County, Kansas

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<sup>&</sup>lt;sup>3</sup> Ibid, F.

<sup>&</sup>lt;sup>4</sup> T. Allan Comp and Donald Jackson, *Bridge Truss Types: A guide to dating and identifying*. (Nashville, Tennessee: American Association for State and Local History, Technical Leaflet 95), 8.

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### NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section Number 8 Page 5

Wea Creek Bowstring Arch Truss Bridge Shawnee County, Kansas

pressured the Miami County Commissioners for a replacement and, after much deliberation, the Commissioners agreed upon the construction of a new iron bridge on the remaining piers. The Commissioners voted to advertise for bids to construct a triple-span iron truss bridge of the "Miller Tubular Iron Bridge Pattern." Each span was to be 69 feet in length and 13 feet in width, and the cost was not to exceed twenty-eight dollars per lineal foot.

Upon completion on July 9, 1870, *The Miami Republican* reported that the Miller double tubular patent bridge was the "best bridge in existence" and that "Messrs. Sprague and Pratt, of Atchison, Kansas are sole contractors for these bridges for all the states and territories west of the Mississippi."

Mahlon Miller (1831-1909) patented the Miller double tubular groove fastened bridge design. As early as 1861, Miller appeared in the Cleveland City Directory as a boilermaker and bridge builder. By 1871, Miller had formed a partnership with William Jamieson and was a principal in the firm of Miller and Jamieson.

According to Miami County press, the bridge was a pioneering effort for Miller, who was present for the erection of the bridge. With a high profile in Kansas during the 1870s and early 1880s, Miller's firm received numerous contracts.

C. C. Pratt came to Kansas in 1868 as a representative of the King Iron and Bridge Company of Cleveland, Ohio. His connections in real estate and the insurance business lead him to Dr. A. N. Sprague, a real estate and freighting businessman, as well as physician. In addition to their partnership as contractors of Miller patent bridges, the 1870 Atchison City Directory listed them as partners in a real estate firm.

In 1902, the Miami County Commissioners ordered the disassembly of the bridge and the relocation of each of the three spans to different sites within Miami County. T. M. Hobson received the contract. One span was relocated to cross Middle Creek at Bryan pond in Mound Township; one span was relocated to cross Middle Creek at Davis pond in Sugar Creek Township; and one span was relocated to cross Wea Creek at Whitaker Crossing between Wea and Tenmile Townships.

On November 19, 1988, the Wea Creek Bowstring Arch Truss Bridge was relocated to the grounds of the Kansas State Historical Society in Topeka.

## NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section Number 8 Page 5

Wea Creek Bowstring Arch Truss Bridge Shawnee County, Kansas

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### NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section Number 9 Page 6

Wea Creek Bowstring Arch Truss Bridge Shawnee County, Kansas

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## NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section Number 10 Page 7

Wea Creek Bowstring Arch Truss Bridge Shawnee County, Kansas

#### **GEOGRAPHICAL DATA**

#### **Verbal Boundary Description:**

Located on the NW ¼ of Section 32, Township 11S, Range 15E, the Wea Creek Bowstring Arch Truss Bridge encompasses an area measuring approximately 69 feet by 12 feet. The northwest corner of this area corresponds to the northwest corner of the bridge.

#### **Boundary Justification:**

The boundary includes the truss, deck, abutments, and associated approaches that represent the significant features associated with the bridge structure.

NPS Form 10-900-a (8-86)

United States Department of the Interior National Park Service

# NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section - Photographic Documentation Page 8

Wea Creek Bowstring Arch Truss Bridge Shawnee County, Kansas

### **PHOTO LOG**

Photographer:

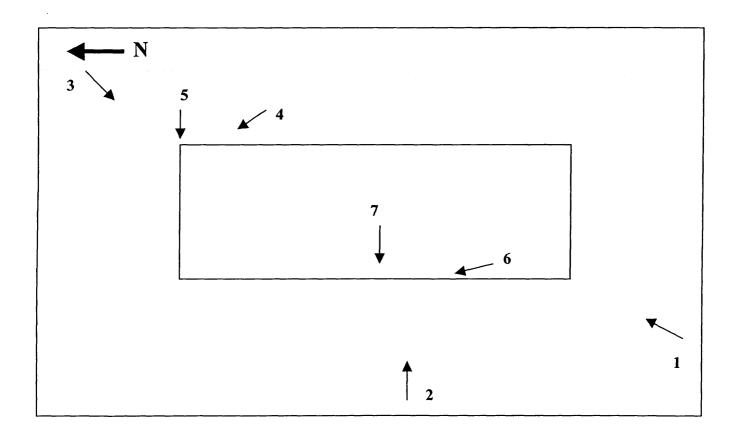
Kerry Davis

Date of Photographs:

February 2002

Location of Original Negative: Kansas State Historical Society, Topeka, Kansas

Photograph Number	Camera View
1.	View NE, bridge truss and deck
2.	View E, bridge truss and stream banks
3.	View SW, bridge truss and deck
4.	View NW, north abutment and bridge understructure
5.	View W, bearing detail
6.	View NW, upper chord detail
7.	View W, upper chord, node detail



# **National Register of Historic Places Continuation Sheet**

on number	Page	
	SUPPLEME	NTARY LISTING RECORD
NRIS Reference N	Number: 03000363	
Property Name: V	Vea Creek Bowstring Arc	h Truss Bridge
County: Shawnee	State: Kansas	
Multiple Name		
nomination docum	nentation subject to the fol	ter of Historic Places in accordance with the attached clowing exceptions, exclusions, or amendments, certification included in the nomination documentation.  May 9, 2003
Signature of the K	eeper	Date of Action
Amended Items in	Nomination:	=======================================
Section 8: Signification	cance	
	eration B" is hereby indic	ated to acknowledge that the bridge has been relocated from

### **DISTRIBUTION:**

National Register property file Nominating Authority (without nomination attachment)

The Kansas State Historic Preservation Office was notified of this amendment.

