NPS Form 10-900 CMB No. 1024-0018 (Rev. 10/90)



United States Department of the Interior National Park Service

### National Register of Historic Places Registration Form

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1. Name of Property	
Historic name: Begley Bridge	······································
Other name/site number: Stranger Creek Pratt Truss Bridge; 52-HT-01	
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2. Location On a perpendicular alignment between two unnamed farm roads fl	
west of the intersection of 227th Street and Roe Road and 100 yards southwest of	f new bridge alignment; 1.75
miles northwest of the town of Millwood.	
	not for publication
city or town Millwood	X vicinity
state code KS county Leavenworth county code 103	zip code 66077
As the designated authority under the National Historic Preservation Act of certify that this <u>nomination</u> request for determination of eligibility standards for registering properties in the National Register of Historic P and professional requirements set forth in 36 CFR Part 60. In my opinion, not meet the National Register criteria. I recommend that this property be nationally statewide <u>locally</u> . ( <u>See continuation sheet for addition</u> <u>signature of certifying official</u> <u>Date</u> <u>State or Federal agency and bureau</u>	v meets the documentation Places and meets the procedural the propertymeetsdoes considered significant
In my opinion, the propertymeetsdoes not meet the National Regist ( See continuation sheet for additional comments.)	er criteria.
Signature of commenting or other official Date	
State or Federal agency and bureau	
4. National Park Service Certification	11
I, tereby, 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:)	
gignature of Keeper Date of Ac	tion
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### National Register of Historic Places **Registration Form**

1. Name of Property	
Historic name:Begley Bridge	
Other name/site number:Stranger Creek Pratt T	russ Bridge; 52-HT-01
2. Location On a perpendicular alignment between two	o unnamed farm roads flanking Stranger Creek 1.1 miles
west of the intersection of 227th Street and Roe Road and	d 100 yards southwest of new bridge alignment; 1.75
miles northwest of the town of Millwood.	
	not for
publication	
city or town Millwood	X vicinity
state code KS county Leavenworth	county code 103 zip code 66077
As the designated authority under the National Histo certify that this XX nomination request for det standards for registering properties in the National and professional requirements set forth in 36 CFR Pa does not meet the National Register criteria. I reco nationally XX statewide locally. ( See co	termination of eligibility meets the documentation 1 Register of Historic Places and meets the procedura art 60. In my opinion, the property <b>XX</b> meets commend that this property be considered significant ontinuation sheet for additional comments.)
Ballard D. Parkintz	4/09/03
Signature of certifying official	Date
State or Federal agency and bureau	
In my opinion, the propertymeetsdoes not m ( See continuation sheet for additional comments.	
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 Register.	
See continuation sheet determined not eligible for the National Registe removed from the National Register. other, (explain:)	
Signature of Keeper	Date of Action

Property Name Begley Bridge

County and State Leavenworth, Kansas

County and State Leavenworth, Kansas		Page <u>2</u>	
5. Classification			
Ownership of Property	Category of Property	No. of Resources within Property	
private	<pre> building(s)</pre>	contributing noncontributing	
X public-local	district	buildings	
public-State	site	sites	
public-Federal	X structure	structures	
	object	objects	
Name of related multiple pr (Enter "N/A" if property is multiple property listing.)	not part of a	No. of contributing resources previous listed in the National Register	
Metal Truss Bridges in Kan	sas	0	
6. Functions or Use			
Historic Functions (Enter categories from inst	ructions.)	Current Functions (Enter categories from instructions.)	
TRANSPORTATION: Road-related (vehicular)		TRANSPORTATION: Road-related (vehicular)	
7. Description			
Architectural Classification (Enter categories from instructions.)		Materials (Enter categories from instructions.)	
OTHER: Pratt Truss		Foundation Concrete	
		Walls	
		Roof	
		Other Metal: Steel	

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

Page <u>3</u> more boxes for the criteria qualifying the a significant contribution to the broad patterns equificant in our past. If a type, period, or method of construction gh artistic values, or represents a significant dividual distinction.
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County and State Leavenworth, Kansas	Page <u>4</u>
9. Major Bibliographical References	
(Cite the books, articles, and other sources used in preparing sheets.)	this form on one or more continuation
<pre>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 #</pre>	Primary location of additional data: XState Historic Preservation Office Other State agency XFederal agency XLocal government University Other Specify repository:
10. Geographical Data Acreage of property <1 acre	
UTM References         1       1/5         20ne       3/1/7/1/6/0         A/3/6/4/3/2/0       3         Northing       2         2       //////         1       1/1/1/1         1       1/5         3       /////         2       //////	
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#### NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section Number 7 Page 1

Begley Bridge Leavenworth County, Kansas

### DESCRIPTION

LOCATION AND SETTING

The Begley Bridge is located 1.75 miles north of the town of Millwood in northeast Kansas, on the SE ¼ of Section 25, Township 7S, Range 20E. The region is defined by rounded hills and broad, forested valleys. Roe Road (also known as Begley Road) has been realigned 100 yards to the northeast and no longer travels over Begley Bridge. The Leavenworth County Board of County Commissioners designated the Begley Bridge a public fishing bridge and the surrounding right-of-way as the Mottin-Tearney-Rohr Park. Now closed to vehicular traffic, the Begley Bridge crosses Stranger Creek, a wide, shallow creek that flows to the southeast to join the Kansas River near Linwood. The Begley Bridge has a northwest-southeast alignment, perpendicular to and between two parallel dirt roads flanked by cultivated fields.

#### TRUSS TYPE

The Begley Bridge consists of a riveted Pratt through truss<sup>1</sup> measuring 105 feet in length, with slightly inclined timber approach spans on each end. The northwest approach span measures approximately 32 feet in length and the southeast approach span measures approximately 17 feet in length. The deck is 16 feet wide. Timber and steel piles retain the planks that form the abutments supporting the outer ends of the approach spans. Poured concrete piers support the bearings of the truss and the inner ends of the approach spans. The two northwest piers are simple poured concrete pads that support the rocker bearings; the monolithic southeast pier has a central spandrel panel flanked by vertically tapered square posts that support the fixed bearings.

The inclined end posts rise from the bottom chords and meet the horizontal top chords to form a trapezoidal shape. The top chords and end posts consist of two channels, a cover plate, and lacing bars; the bottom chords consist of angle stock with stay plates.

The web members consist of vertical posts that form seven equivalent panels and diagonal ties that intersect within the central panel. Channel stock and stay plates compose the vertical posts; angle stock and stay plates compose the diagonal ties.

A riveted system of intersecting angle stock forms the portal and sway bracing; laced angle stock forms the sway struts that connect the top chords at each vertical post, leaving a vertical clearance of 24 feet. Upper lateral bracing bars intersect diagonally between the top chords.

The corrugated metal deck is 16 feet wide and rises 25 feet above the creek bed on timber stringers. Floor beams at the base of each vertical post support the stringers. A section of timber stringers at the southeast end of the deck has been damaged by fire.

A bronze plaque set into a concrete monument at the southeast approach has letters in relief that recount the history of the bridge. Modern steel guardrails extend the length of the bridge.

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

#### NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section Number 7 Page 2

Begley Bridge Leavenworth County, Kansas

#### **INTEGRITY**

The Begley Bridge is an excellent example of the Pratt truss bridge type, historically the most popular built in Kansas.<sup>2</sup> In spite of the loss of original deck material, the Begley Bridge retains a good degree of integrity and the original workmanship, design, setting, and feeling of the property are readily apparent. Furthermore, the potential for preservation of the bridge is high. Removed from the road system and designated a public fishing bridge within a county park, alteration or replacement is unlikely.

<sup>&</sup>lt;sup>2</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), E1. Jochims stated there were approximately 262 extant Pratt trusses in Kansas. Dale Nimz, Activity III Review Initial Assessment Metal Truss Bridges, (Topeka: Kansas State Historical Society, 1998), 6. Nimz stated there were approximately 800 extant Pratt trusses in Kansas.

## NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

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Begley Bridge Leavenworth County, Kansas



# NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section Number 8 Page 4

Begley Bridge Leavenworth County, Kansas

#### STATEMENT OF SIGNIFICANCE

The Begley 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 Pratt truss bridge type. Built in 1926, the Begley Bridge is a common bridge solution applied to a long span. Its riveted structure, timber abutments, and concrete piers illustrate the transition in construction techniques and materials that occurred during the period of significance.

#### **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.<sup>1</sup> 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. 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 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

<sup>&</sup>lt;sup>1</sup> Jochims, E.

<sup>&</sup>lt;sup>2</sup> Jochims, F.

#### NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section Number 8 Page 5

Begley Bridge Leavenworth County, Kansas

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 riveted construction of the Begley Bridge illustrates the standardization of this 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 combination of timber abutments and poured concrete piers at the Begley Bridge illustrates the transition in construction technology and materials that occurred during the period of significance.

The Begley Bridge is a classic example of this truss design. Patented in 1844, the Pratt truss incorporates vertical members in compression and diagonal members in tension, a design that reduces the required length of compression members, helping to prevent bending or buckling.<sup>4</sup> The Pratt truss became the most common bridge type of the late nineteenth and early twentieth centuries and spawned numerous variations including Parker, Camelback, Baltimore, Truss Leg Bedstead, Lenticular, and Pennsylvania trusses.<sup>5</sup>

In Kansas, Pratt truss bridges were constructed well into the twentieth century, suggesting the appeal of the design's strength and economical construction costs.<sup>6</sup> In 1998, approximately 800 Pratt truss bridges, including the Begley Bridge, existed throughout the state of Kansas.<sup>7</sup>

#### STRUCTURE HISTORY

Founded circa 1876, the nearby village of Millwood owes its name to the Stranger Valley Mills established in 1869. Drawing farmers from throughout the fertile Stranger Valley, the mills provided a commercial anchor for cultural activity and Millwood soon boasted both a saloon and a Lutheran church. As railroad lines established station stops in Easton to the south and later in Potter, Atchison County, to the north, Millwood became destined to remain a small, but crucial market center. Typical of small towns throughout Kansas, it served as a trading point for the surrounding rural community. As a result, fords and bridges that provided area farmers with access to local markets were critical to the survival of the regional economy.

The Leavenworth Bridge Company, a prolific Kansas bridge builder, constructed the Begley Bridge in its current form in 1926. Leavenworth County advertised in *Western Contractor* during November 1925 for bridge construction bids on the "Begley Bridge, nr [sic] Potter," which called for almost 22 tons of structural steel. The

<sup>3</sup> Ibid, F.

<sup>5</sup> Ibid, 8.

<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>6</sup> Jochims, F2.

<sup>&</sup>lt;sup>7</sup> Nimz, 6.

# NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

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Begley Bridge Leavenworth County, Kansas

Leavenworth Bridge Company won the bid and, according to the Leavenworth County Board of County Commissioners, they disassembled and moved the truss from the crossing of Stranger Creek at Linwood.<sup>8</sup> Local history recounts that this truss was originally constructed by the Missouri Valley Bridge & Iron Company in the early 1880s<sup>9</sup> and was a pin-connected structure. However, the current structure is entirely riveted. Therefore, construction either involved the complete disassembly of the original truss and subsequent reconstruction at the current location using contemporary riveting or the truss at Linwood was not reused. In addition to the construction of poured concrete piers, the reconstruction involved the introduction of gusset plates at each node and angle stock to form riveted web and chord members where eye bars and tension rods would have been. This drastically altered the original appearance and structural function of the truss.

The *Leavenworth Times* reported in March 1926 that the Leavenworth Bridge Company was completing the "east piece" of the Begley Bridge under the direct supervision of Buck Tearney. The bridge was complete by the end of 1926. In 1986, the Leavenworth Board of County Commissioners designated the Begley Bridge a public fishing bridge and the surrounding right-of-way as the Mottin-Tearney-Rohr Park.

J. B. "Buck" Tearney founded the Leavenworth Bridge Company, and from 1875 to circa 1930, he was involved in the construction of most of the bridges and culverts in Leavenworth and neighboring counties, often as a subcontractor for the Missouri Valley Bridge & Iron Company.<sup>10</sup> Al Rohr, a former contracting agent for the Missouri Valley Bridge & Iron Company, partnered with Tearney to form Rohr & Tearney and was a silent partner in the Leavenworth Bridge Company. As owner of J. B. Tearney & Company, Tearney ensured that at least one of his companies would receive the contract at hand. The Leavenworth Bridge Company was essentially a bidding company, and J. B. Tearney & Company completed the majority of actual construction.<sup>11</sup>

<sup>&</sup>lt;sup>8</sup> "Resolution #1986-17," Leavenworth Board of County Commissioners, 17 April 1986.

<sup>&</sup>lt;sup>9</sup> Ibid.

<sup>&</sup>lt;sup>10</sup> Jochims, E3.

<sup>&</sup>lt;sup>11</sup> Ibid.

## NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section Number 9 Page 7

Begley Bridge Leavenworth County, Kansas

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# NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section Number 10 Page 8

Begley Bridge Leavenworth County, Kansas

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#### **GEOGRAPHICAL DATA**

#### Verbal Boundary Description:

Located on the SE ¼ of Section 25, Township 7S, Range 20E, the Begley Bridge encompasses an area measuring approximately 154 feet by 16 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.

#### NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section - Photographic Documentation Page 9

Begley Bridge Leavenworth County, Kansas

### **PHOTO LOG**

Photographer:Kerry DavisDate of Photographs:February 2002Location of Original Negative:Kansas State Historical Society, Topeka, Kansas

Photograph Number	Camera View
1.	View N, bridge truss
2.	View NW, bridge truss and deck
3.	View W, bridge truss and historical marker
4.	View NE, bridge truss, southeast abutment and pier
5.	View E, northwest bearing detail
6.	View NW, northwest approach span



