		RECEIVED 2280
NPS Form 10-900 Opf Mo. 1024-0018 (Rev. 10/90)		4400
United States Department of the Interior National Park Service	A M	AR 2 8 2003
National Register of Histor	ic Places NAT. REGISTI	ER OF THE
Registration Form	NATION	AL PARK SERVICE ACES
1. Name of Property		
Historic name: N/A		
Other name/site number: <u>Cottonwood River</u>	r Pratt Truss Bridge (preferre	ed); 09-HT-03
	• • • • • • • • • • •	
2. location <u>On Main Street, 0.8 miles west of the</u>	<u>intersection with 1st Street.</u>	
		not for publication
city or town Cedar Point		X vicinity
state code KS <u>county</u> Chase	county code 017	zip code 66843
Sichard Careleratz	3/26/03	
Signature of certifying official	Date	
State or Federal agency and bureau		
In my opinion, the property meets does n	ot meet the National Regis	ter criteria.
(See continuation sheet for additional comme	mts.)	
Signature of commenting or other official	Date	
State or Federal agency and bureau		
4. National Park Service Certification	^	<u>A_A</u>
I, hereby, certify that this property is	$1/(\Lambda)$	// 🗶
Ventered in the National Register.	an H 1200	
determined eligible for the National Registe	r.	
determined not eligible for the National Reg	ister.	
other, (explain:)		/ /
land	ζ	9/03
Signature of Keeper	Date of A	ction
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NEFTOR 10-900 Gene No. 1024-0018 (Rev. 10/90) United States Department of the Interior National Park Sérvice	RECEIVED 2280
National Register of Historic Places Registration Form	NAT REGISTER OF HISTIAN
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2. Location On Main Street, 0.8 miles west of the intersection with 1 st Street.	
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state code KS county Chase county code 017	zip code 66843
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Signature of Keeper

Date of Action

USDI/NPS NRHP Registration Form			
Property Name Cottonwood R	ver Pratt Truss Bridge		
County and State Chase, Kansas			Page <u>2</u>
5. Classification			
Ownership of Property	Category of Property	No. of Resourc	es within Property
private	<pre> building(s)</pre>	contributing	noncontributing
X public-local	district		buildings
public-State	site		sites
public-Federal	<u>X</u> structure		structures
	object	tan ing kanalan sa	objects
			Total
Name of related multiple propert (Enter "N/A" if property is not multiple property listing.):	y listing: part of a	No. of contrib listed in the	uting resources previously National Register
Metal Truss Bridges in Kansas		0	ander of the second second Second second
6. Functions or Use			
Historic Functions (Enter categories from instructi	ons.)	Current Functions (Enter categories	from instructions.)
TRANSPORTATION: Road-related (vehicular)	TRANSPORTAT	ION: Road-related (vehicular)
		· · · · · · · · · · · · · · · · · · ·	
7. Description			
Architectural Classification (Enter categories from instruction	ons.)	Materials (Enter categor	ies from instructions.)
OTHER: Pratt Truss		Foundation	Concrete, limestone
		Walls	
		Roof	
		Other Meta	ıl: Steel

USDI/NPS NRHP Registration Form

Property Name Cottonwood River Pratt Truss Bridge

County and State Chase, Kansas

Page 3

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.

 \underline{X} 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.)

A owned by a religious institution or used for religious purposes.

B removed from its original location.

C a birthplace or a grave.

D a cemetery.

____ E a reconstructed building, object, or structure.

F a commemorative property.

Gless than 50 years of age or achieved significance within the past 50 years.

Areas of Significance Enter categories from instructions.)	Period of Significance Significant Dates
ENGINEERING	<u>1916</u>
TRANSPORTATION	
	Cultural Affiliation
	N/A
Significant Person	Architect/Builder
N/A	Missouri Valley Bridge Company (Leavenworth, Kansas)

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

USDI/	NPS	NRHP	Registration	Form

Cottonwood Diven Drott Truce Dridge	
Property Name Conoliwood Kivel Flat Huss Bluge	
County and State Chase, Kansas	Page _4
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).	Primary location of additional data:
preliminary determination of individual listing	X State Historic Preservation Office
(36 CFR 67) has been requested	Other State agency
previously listed in the National Register	Federal agency
previously determined eligible by the National Register	X Local government
designated a National Historic Landmark	University
recorded by Historic American Buildings	Other
Survey #	Specify repository:
recorded by Historic American Engineering	
Record #	
10. Geographical Data	
Acreage of property <u>{ acre</u>	
UTM References 1 1/4 6/8/9/5/2/0 4/2/3/6/6/9/0/ 3 / / / / / / Easting Zone Easting Northing Zone Easting Easting	<u>//////</u> Northing
2 / / / / / / / / / / / / / / / / / / /	
See cont	LINUALION SNEEL
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	
name (+++) a Kerry Davis Architectural Historian & Elizabeth Rosin Partn	ar
organization Historic Preservation Services	date <u>August 5, 2002</u>
street & number <u>323 West Eighth Street, Suite 112</u>	telephone <u>(816) 221-5133</u>
city or town Kansas City	state <u>Missouri</u> zip code <u>64105</u>
Additional Documentation	
Continuation Sheets	
Maps	
A USGS map (7.5 or 15 minute series) indicating the property A sketch map for historic districts and properties having la Photographs	y's location. arge acreage or numerous resources.
Representative black-and-white photographs of the property.	
Additional items (Check with the SHPO or FPO for any additional :	items.)
Property Owners (Complete this item at the request of the SHPO	or FPO.)
Name <u>County of Chase</u>	
street & number Chase County Courthouse	telephone <u>620-273-6386</u>
city or town Cottonwood Falls	state KS zip code 66845

United States Department of the Interior National Park Service

NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section Number 7 Page 1

Cottonwood River Pratt Truss Bridge Chase County, Kansas

DESCRIPTION

LOCATION AND SETTING

The Cottonwood River Pratt Truss Bridge is located 0.8 miles west of the town of Cedar Point in the heart of the Flint Hills region of east-central Kansas; in the NW ¼ of Section 1, Township 21S, Range 5E. The region is defined by rolling prairie hills with deep, tree-lined creek valleys and rocky bluffs. The Cottonwood River Pratt Truss Bridge carries Main Street across the Cottonwood River, a wide and deep river that flows east to join the Neosho River near Emporia. The gravel roadway travels west out of Cedar Point along the section line between sections 1 and 36. It makes a wide curve southwest and travels 0.2 miles before making a fairly sharp curve northwest back up to the section line. The Cottonwood River Pratt Truss Bridge is located at this northwest curve in the road and has a northwest-southeast alignment.

TRUSS TYPE

The Cottonwood River Pratt Truss Bridge is a single span riveted through truss¹ that measures 142 feet in length and 17 feet in width.² Standard box-form poured concrete abutments support the bearings of the truss, which rest directly on the abutment seat. The side walls of the abutments extend approximately 18 feet along the approach grades. Rough-cut limestone retaining walls extend another 15-20 feet along the south approach grade.

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 top plate, and lacing bars; the bottom chords consist of angle stock with stay plates.

The web members consist of vertical posts that form eight equivalent panels and diagonal ties that intersect within the two central panels. Angle stock and lacing bars compose the vertical posts. Angle stock and riveted stay plates compose the diagonal ties.

A system of intersecting, riveted angle stock forms the portal and sway bracing that connects the top chords at each vertical post, leaving a vertical clearance of 16 feet. Upper lateral bracing rods intersect diagonally between the top chords.

The historic poured concrete deck is 17-feet wide with curbs and downspouts. It rises 32½ feet above the riverbed on steel I-beam stringers. Floor beams located at the base of each vertical post are connected by lower lateral bracing rods.

The historic lattice guardrails are intact along the length of the truss. Identical, rectangular plaques on the southeast and northwest inclined end posts read "C. C. McDowell COMM / J. H. Harbour COMM / Frank Stewart COMM / J. A. Mann CLERK / C. H. Burnett ENG." Letters in relief read "LACKAWANNA" on several structural components.

² The length equals the distance between abutments; the width equals deck width.

¹ A through truss is also referred to as a high truss.

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NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section Number 7 Page 2

Cottonwood River Pratt Truss Bridge Chase County, Kansas

INTEGRITY

The Cottonwood River Pratt Truss Bridge is an excellent example this bridge type, historically the most popular built in Kansas.³ It retains a high degree of integrity with no apparent alterations to the original design or materials. The original workmanship, materials, design, setting, and feeling of the property are readily apparent. Furthermore, the potential for preservation of the bridge is high. Located on a lightly traveled road, it is unlikely that traffic requirements will necessitate alteration or replacement.

³ 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 identified 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 identifies approximately 800 extant Pratt trusses in Kansas.

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NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section Number 7 Page 3

Cottonwood River Pratt Truss Bridge Chase County, Kansas



United States Department of the Interior National Park Service

NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section Number 8 Page 4

Cottonwood River Pratt Truss Bridge Chase County, Kansas

STATEMENT OF SIGNIFICANCE

The Cottonwood River Pratt 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 Pratt Truss bridge type. Built in 1916, the Cottonwood River Pratt Truss Bridge is a common bridge solution applied to a relatively long span. Its riveted structure and concrete abutments illustrate the standardization of these construction techniques and materials during the period of significance. As no historic name identifies this bridge, the preferred name "Cottonwood River Pratt Truss Bridge" has been assigned. This describes the 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.¹ Proximity of 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 improved long-distance 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 who 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 1910.²

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.

¹ Jochims, E.

² Jochims, F.

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NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section Number 8 Page 5

Cottonwood River Pratt Truss Bridge Chase County, Kansas

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.³ 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 Cottonwood River Pratt Truss 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. While the concrete deck and abutments of the Cottonwood River Pratt Truss Bridge are typical of bridges built during this period, the limestone retaining walls that extend from the side walls of the southeast abutment also suggest a continued reliance on traditional building techniques during this transition period.⁴

The Cottonwood River Pratt Truss 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.⁵ The Pratt truss became the most common bridge type of the late nineteenth and early twentieth centuries and spawned numerous design variations including Parker, Camelback, Baltimore, Truss Leg Bedstead, Lenticular, and Pennsylvania trusses.⁶

In Kansas, Pratt truss bridges were constructed well into the twentieth century, suggesting the appeal of the design's strength and economical construction costs.⁷ In 1998, approximately 800 Pratt truss bridges, including the Cottonwood River Pratt Truss Bridge, existed throughout the state of Kansas.⁸

STRUCTURE HISTORY

Settled by 1857,⁹ the nearby town of Cedar Point was a thriving rural community during the late nineteenth and early twentieth centuries. In 1883, it had two general stores, a post office, a blacksmith shop, and the three-story Drinkwater & Schriver water gristmill. William G. Cutler referred to the mill as "the largest and finest in Chase

⁹ William G. Cutler, *History of the State of Kansas: Chase County.* (Chicago: A. T. Andreas, 1883). Captain O. H. Drinkwater, senior partner of Drinkwater & Shriver, millers, settled at what is now Cedar Point in 1857.

³ Ibid, F.

⁴ "Commissioners Proceedings." *Cottonwood Valley News*, 10 June 1915. Contemporary reports indicate that the road and river crossing did not exist prior to 1916, suggesting that the limestone retaining walls are not remnants of a previous bridge abutment.

⁵ 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.

⁶ Ibid, 8.

⁷ Jochims, F2.

⁸ Nimz, 6.

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NATIONAL REGISTER OF HISTORIC PLACES CONTINUATION SHEET

Section Number 8 Page 6

Cottonwood River Pratt Truss Bridge Chase County, Kansas

County or in this part of the State [. ...it] manufactures flour of a very fine quality which is shipped East and West to points at considerable distance.³⁰ Cedar Point was typical of small towns throughout Kansas that served as trading and shipping points for area cattlemen and farmers. As a result, fords and bridges that provided access to local markets were critical to the survival of the regional economy.

Late in 1914, the citizens of Cottonwood Township began petitioning for a western extension of Main Street out of Cedar Point that would curve north and cross the Cottonwood River. After nearly a year, the board of county commissioners officially agreed to the petition in August of 1915 and appropriated the funds for a bridge to cross the Cottonwood River on this road. They estimated the cost at between \$7,500 and \$8,000.¹¹ Bridge companies declared the bridge could not be built at such low cost, and no bids were submitted at the September bid opening. The commissioners subsequently passed a resolution appropriating \$10,000, of which the town of Cedar Point was to contribute \$500, and a second round of bids were received in October 1915. Upon receipt, the commissioners rejected all bids, which ranged from \$8,779 to \$9,573, on the grounds that they were too high. Missouri Valley Bridge Company lowered their bid to \$8,750 and received the contract.¹²

The Missouri Valley Bridge Company of Leavenworth, Kansas, a prolific Kansas bridge builder, built the Cottonwood River Pratt Truss Bridge. Markings on the structural members indicate that they purchased the stock metal from the Lackawanna Steel Company of Buffalo, New York. In 1874, Edwin I. Farnsworth and D. W. Eaves of the Wrought Iron Bridge Company (Canton, Ohio) founded the Missouri Valley Bridge Company in an effort to manufacture and sell bridges locally rather than import them from eastern firms. By 1904, the company incorporated as the Missouri Valley Bridge and Iron Company and built everything from bridges to boats. Their most notable project was the construction of the piers for the San Francisco Bay Bridge in 1936.¹³

By early November 1915, work had commenced on the Cottonwood River Pratt Truss Bridge under the supervision of the County Engineer, Charles H. Burnett, and the Foreman, Mr. Rice.¹⁴ The specifications called for a bridge that "will doubtless be the best steel river bridge in Kansas."¹⁵ Work continued with no significant delays except for a few days pause in work while "waiting for a power riviter."¹⁶ Construction was completed in April 1916.

¹⁰ Ibid. This mill, built in 1876, is still standing.

¹¹ The Cottonwood Valley News, 10 June 1915.

¹² The Cottonwood Valley News, 14 October 1915.

¹³ Jochims, E3.

¹⁴ This was the same foreman who was in charge of construction of the c.1915 bridge at Cottonwood Falls. His first name is not known.

¹⁵ The Cottonwood Valley News, 14 October 1915.

¹⁶ The Cottonwood Valley News, 9 March 1916.

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Cottonwood River Pratt Truss Bridge Chase County, Kansas

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Cottonwood River Pratt Truss Bridge Chase County, Kansas

GEOGRAPHICAL DATA

Verbal Boundary Description:

Located on the NW ¼ of Section 1, Township 21S, Range 5E, the Cottonwood River Pratt Truss Bridge encompasses an area measuring approximately 142 feet by 17 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.