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: 89002173

Pott's Ford Bridge **Property Name**

Cloud 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 Bolard Signature of the Keeper

Date of

Date Listed: $1/4/9\emptyset$

Amended Items in Nomination:

Item #8, Significance: The bridge meets National Register criteria A and C.

DISTRIBUTION: National Register property file Nominating Authority (without nomination attachment)

United States Department of the Interior National Park Service

National Register of Historic Places Registration Form

7173

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 Pott's Ford B | nidan | | | | |
| other names/site number | ridåe | | | | |
| | | | | | |
| 2. Location 1 mile west and | 1 mile north of | the inters | section of F. | A.S. 135 and 1043 | A |
| street & number on unmarked co | | | | not for publication | |
| city, town Glasco | | | | | |
| state Kansas code | KS county | Cloud | code | zip code | 6744 |
| 3. Classification | | | | | |
| Ownership of Property | Category of Property | alarian dalamar ang di sang di | Number of Rec | sources within Property | |
| private | building(s) | | Contributing | Noncontributing | |
| x public-local | | | Contributing | buildings | • |
| public-local | | | | Sites | |
| public-Federal | x structure | | 1 | structures | |
| | | | | objects | |
| | | | 1 | Total | |
| Name of related multiple property listin |) () : | | Number of cont | tributing resources previo | ously |
| Metal Truss Bridges in Ka | | | | tional Register0 | |
| 4. State/Federal Agency Certifica | -A! | | | | |
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Signature the Keeper

OMB No. 1024-0018

Date of Action

NOV 2 8 1984

| 6. Function or Use Historic Functions (enter categories from instructions) Transportation: Road Related (Vhicular): Current Functions (enter categories) Bridge Transportation: (Vehicular) | es from instructions) |
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| Architectural Classification Materials (enter categories from i (enter categories from instructions) | nstructions) |
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| roof | 了。这个人,我们却有一个好的。 |
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Describe present and historic physical appearance.

The Pott's Ford bridge, erected in 1884, is a pin connected Pratt through truss. The bridgeconsists of three Pratt pony trusses and one Pratt through truss. The truss lengths are 48 foot, 46 foot, 149 foot and 72 foot respectively. It is located on a light duty road southwest of Glasco. The bridge is located on a slight bend of the road and sits on a slight northeast-southwest alignment. This is often true with early bridges as this misalignment allowed a right angle approach to the river and a saving of money in both bridge lenth 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 instance of the Pott's Ford bridge, as with all Pratt trusses, the web members are alternately vertical and inclined. The inclined members are in tension and the verticals in compression.

The inclined end posts and top chord of the Pott's Ford bridge are fabricated from sections of channel iron, tied together by single bar lacing. The girders thus formed are topped with an iron cover plate. Hip verticals consist of a wrought iron round rod with an eye loop at the end which enables its connection with the panel pin. The compression posts on the through truss are made up of flat lattice (non intersecting) and channel pieces those of the pony trusses feature single bar lacing. The portal bracing is fabricated from angle stock and forms an interlocking triangle design. Individual components are fabricated of stock angles and straps by being rivited together. The main members of the bridge, however, are connected at panel points by the use of a pin.

The bridge retains a high degree of structural integrity.



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|--|-------------|----------------------------|
| Certifying official has considered the significance of this property in relation to other proper | | |
| Applicable National Register Criteria A B C C | | |
| Criteria Considerations (Exceptions) | G | |
| Areas of Significance (enter categories from instructions)Period of SignificanceEngineering1884 | INCE | Significant Dates 1884 |
| <u>Transportation</u> 1884 | | |
| Cultural Affiliation | | |
| Significant Person Architect/Builder | Iron Bridge | Builders |

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

The great evolution of truss bridge construction began in the United States soon after the publication of Squire Whipple's historic work on stresses in 1840. Prior to this the design work was essentially that of trial and error, experience and judgement. The Warren and Pratt trusses were rational designs and lent themselves readily to the system of analyses postulated by Whipple. They were, therefore, readily and rapidly accepted and formed the foundation for a greater part of American truss design.

The basic Pratt truss was patented in 1844 by Thomas and Caleb Pratt and the Warren, a design patented by two British engineers in 1848, demonstrated their versatility, durability, and most important for the west, cost effectiveness.

In the Pratt design the diagonals were placed in tension and vertical members in compression, with the exception of the hip verticals. Generally, until the 20th century, all panel point connections were made with the use of a pin. This becamse such a widespread practice that it. became one of the distinctive features of United States bridge The pin was selected for several reasons. construction. It was simple in design and it was much easier for period engineers to calculate stress at the panel points and throughout the structure than if the members were connected by the use of rivets. Although the riveted structure was much more rigid, the inability to insure that the individual rivets had not been damaged during insertion made early failure an unknown quantity. It was extremely difficult to calculate the stress throughout the joint. The pin could be considered basically as a single rivet.

Time was always a consideration in American construction. Logically labor costs would be less if the bridge went in quickly but also the falsework in the river would not have to be in place long. Flash floods were the bane of any bridge contractor. The pin connected bridge could be

See continuation sheet

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put up more quickly and with the use of less skilled employees. The portable pneumatic riveter was also in its infancy in the 1890s and without it, erection of totally riveted bridges was almost impossible. It was much easier to have the bridge members fabricated and riveted in a shop setting and pin them together on the job site.

OMB Approvel No. 1024-0018

The use of wrought iron in bridge construction was popular in 1883.. It would not totally be replaced by steel until 1910.

The Pott's Ford bridge is significant because it is a good example of the Pratt truss design of the late 19th century and as the work of one of the major out-of-state bridge fabrication companies, namely the Wrought Iron Bridge Company of Canton, Ohio. Out of the approximately 262 Pratt through trusses in Kansas only nine have presently been identified as having been built by Wrought Iron Bridge. These are spread throughout the state in Anderson, Bourbon, Cloud, Miami, Republic, Smith and Wilson counties. All are presently in use on the county highway systems.

Organized in 1864 by David Hammond, Wrought Iron Bridge Company was incorporated in 1871. Its major offices were located at Canton, New York City, Chicago and Kansas City, Missouri. From 1880-1900 the company was one of the major suppliers of metal truss bridges. In 1900 the company was absorbed by J. P. Morgan's American Bridge Company. Current information suggests that the company only sold Pratt truss structures in Kansas.

The Pott's Ford bridge was born out of controversy, necessity and competition. In the spring of 1883 the Kansas State Legislature voted to allow Solomon township to vote bonds to erect a bridge across the Solomon River. Petitions were soon being passed throughout the township to try and pursuade trustees to locate the bridge in various parts of the township. It did not take the bridge companies long to hear about the potential sale for by April 14, 1883 two representatives had left plans for viewing at H.H. Spaulding's store in Glasco. Romeiser's Crossing was selected as the site and an election was held June 5, 1883 at Glasco. The Glasco <u>Sun</u> lobbied hard for the bridge with the argument that it would shorten the farm to market trips of the farmers, give a boost to the Glasco economy, keep the local monies out of Mitchell county, keep local farmers from effectively being disenfranchised at time of election if the river is high or from their mail, mill, church, and medical service in case of emergency.

The bonds were voted by a majority of twenty-eight but the township official in charge refused to issue them. The <u>Sun</u> characterized the opposition, used money, whiskey and beer as well as other dishonorable means to defeat the "long-felt want." The proponents sued but lost their case. NPS Form 10-800-6

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A new election was called for June 28, 1884, and the battle was again enjoined. The chief anti-bridge lobby was the Mitchell county town of Simpson who had the most to lose if a bridge was built near Glasco. It would steal their trade. The new election was in favor of locating the bridge at Pott's Ford between sections 14 and 15. A second proposition surfaced to vote down the Pott's Ford side in favor of the old Romeiser location.

nd Ma. 1034-0016

The Pott's Ford site was selected by a 3/5th majority but it appears Simpson hired a lawyer to fight the bond issue on the charge of fraud hoping to delay the construction until after the harvest season. Undaunted the township called for bids to be opened August 9th. It appears that by the end of August the case was settled and the pro bridge forces had won. Wrought Iron Bridge was given 100 days to complete the bridge on August 28, 1884.

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 date on file. That information was jointly evaluated by representatives of KDOT, Kansas State Historical Society, and the State Preservation Officer.

Each structure was evaluated using a points rating system adapted from the points evaluation rating developed by the Ohio Department of 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. NPS Form 10-900-e

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The Pott's Ford bridge was rated quite high in significance because of its age, one of the oldest Pratt's in the state, because it was the work of a known prolific out-of-state builder, retained a good degree of its integrity and possesses a fair bypass potential.

WA 1034.0018

It is also a symbol of the struggle between early Kansas communities and the struggles they were willing to undertake to promote their security and safety.

| "Local Item "Communicat "Local," Ap "Second Wee "Election N "Last Call, "Last Call, | e Question," February 10, ion," March 31, 1 oril 7, 1883, p. 6 k," April 14, 188 otice," May 26, p " June 2, 1883, p " June 30, 1883, Voters," August 1 | 883, p. 1. 3, p. 4. 4. 5. 1. p. 1. |
|--|--|---|
| | | See continuation sheet |
| Previous documentation on file (NP preliminary determination of ind has been requested previously listed in the National | lividual listing (36 CFR 67) Register | Primary location of additional data: State historic preservation office Other State agency |
| previously determined eligible b designated a National Historic L recorded by Historic American I | Landmark | Federal agency Local government University |
| Survey # recorded by Historic American I Pecord # | Engineering | Other Specify repository: Kansas State Historical Society |
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| Zone Easting Nor C | | D L L L L L L L L L L L L L L L L L L L |
| C L LL Verbal Boundary Description The nominated property section 23, township 8 whose northeast corner bridge. Beginning at 4 southwest, 16' northwest | south, range 5 we is represented by the northeast corr | See continuation sheet e NW 1/4, NW 1/4, NW 1/4, est, on a tract measuring 315' x 16' y the northeast corner of the ner the boundary proceeds 315' |
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"Bridge Bonds," August 11, 1883, p. 1. "Local," January 12, 1884, p. 1. "The Bridge Proposition," June 7, 1884, p. 4. "Local," June 21, 1884, p. 1. "Another Bridge Proposition," June 21, 1886, p. .4 "Local," June 28, 1884, p. 3. "Local," July 5, 1884, p. 1. "Local," July 12, 1884, p. 1. "Notice to Contractors," July 19, 1884, p. 4. "Local," August 16, 1884, p. 1. "Local," August 23, 1884, p. 1. "Local," August 23, 1884, p. 4.

OMB Accord No. 1024-0018

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

"Eight New Bridges," Belleville Freeman, May 4, 1899, p. 4. c. 3.

David Weitzman, <u>Traces of the Past: A Field Guide to Industrial</u> <u>Archeology</u>, New York: Charles Saibner's Sons, 1980.