Noix Creek Bridge

PIKE03

GENERAL DATA

structure no.: K 487R
county: Pike
city/town: southeastern edge of Louisiana
feature inters.: Noix Creek
cadastral grid: S20, T54N, R1W
highway route: State Highway 79
highway distr.: 3
current owner: Missouri Highway and Transportation Department

STRUCTURAL DATA

superstructure: steel, 10-panel, rigid-connected polygonal Warren pony truss, skewed, with steel stringer approach spans
substructure: concrete abutments and wingwalls; concrete hammerhead spill-through piers

span number: 1
span length: 100.0'
total length: 218.0'
roadway width: 24.0'stringers
condition: good
alterations: deck repairs, 1988
floor/decking : asphalt-covered concrete deck, over steel
other features: upper chord and inclined end post: 2 channels with cover plate and lacing; lower chord: 2 angles with batten plates; vertical: wide flange; diagonal: wide flange; lateral bracing: 1 angle; floor beam: I-beam, with cantilevered extensions outside webs on both sides to support sidewalks; guardrail: concrete; bridge plate: **MISSOURI HIGHWAY DEPT. BRIDGE N° K 487 1935**

HISTORICAL DATA

erection date: 1935-36
erection cost: $48,711.30
designer: Missouri State Highway Department
fabricator : Carnegie Steel Company, Pittsburgh PA
contractor: Otto W. Knutson

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure No. K 487R; Missouri Primary System Bridge Record, located at the Missouri Highway and Transportation Department, Jefferson City MO; field inspection by Clayton Fraser, 14 September 1990.

sign. rating: 58
evaluation: NRHP possibly eligible (one of a number of polygonal Warren truss built from plans promulgated by the Missouri State Highway Department in the 1930s)

inventoried by: Clayton B. Fraser 26 March 1991

HAER INVENTORY
Missouri Historic Bridge Inventory

NAME(S) OF STRUCTURE
Noix Creek Bridge
MHTD: K 487R

PIKE03

DATE(S) OF CONSTRUCTION
1935-36

LOCATION
State Highway 79 over Noix Creek; S20, T54N, R1W
southeastern edge of Louisiana; Pike County, Missouri

USE (ORIGINAL / CURRENT)
highway bridge / highway bridge

RATING NRHP possibly eligible (score: 58)

CONDITION
good

OWNER
Missouri Highway and Transportation Department

span number: 1
span length: 100.0'
total length: 218.0'
roadway wdt.: 24.0'

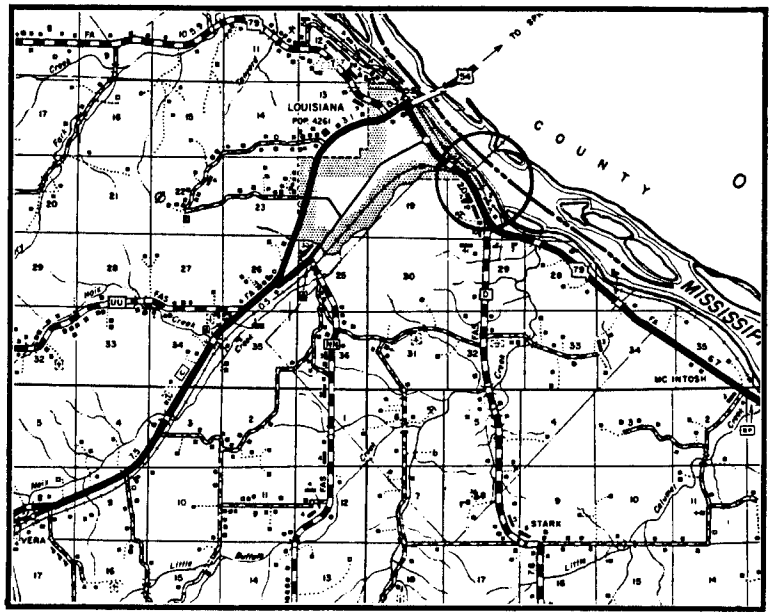
superstructure: steel, 10-panel, rigid-connected polygonal Warren pony truss, skewed, with steel stringer approach spans
substructure: concrete abutments and wingwalls; concrete hammerhead spill-through piers
floor/decking: asphalt-covered concrete deck, over steel stringers
other features: upper chord and inclined end post: 2 channels with cover plate and lacing; lower chord: 2 angles with batten plates; vertical: wide flange; diagonal: wide flange; lateral bracing: 1 angle; floor beam: I-beam, with cantilevered extensions outside webs on both sides to support sidewalks; guardrail: concrete; bridge plate: **MISSOURI HIGHWAY DEPT. BRIDGE N° K 487 1935**

Located at the southern periphery of Louisiana, this long-span pony truss carries Missouri State Highway 79 over Noix Creek. The bridge is comprised of a single rigid-connected pony truss span, which is supported by a concrete substructure. The Noix Creek Bridge was designed by the state highway department and constructed in 1935-36 by contractor Otto Knutson for $48,711.30. The bridge is largely unaltered, other than deck repairs undertaken in 1988.

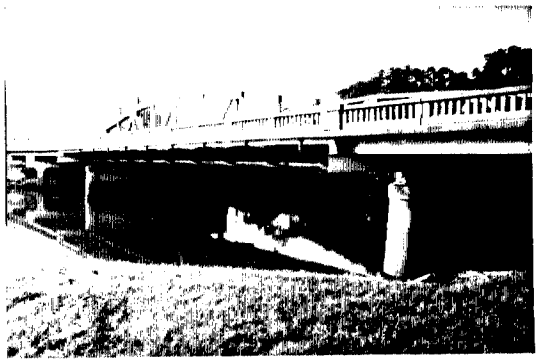
The Missouri State Highway Department used riveted Warren configurations for its pony trusses almost from the time the agency developed its first bridge standards around 1920. Structurally straightforward and versatile, these ubiquitous trusses were erected by the hundreds throughout the state in span lengths ranging from 40 to 100 feet. In the early 1930s the highway department designed Warren trusses with polygonal upper chords, a variation that was more materially conservant than the straight-chorded Warren for long-span applications. Relatively few of these Warren subtypes were built during the decade, due more to their extreme span length than to their utility. Approximately fifteen of these polygonal Warren pony trusses have been identified as extant by the statewide bridge inventory, all built between 1932 and 1940 and all spanning 100 feet. Fabricated from essentially the same drawings, their superstructures were virtually identical, other than the addition of accessories such as the cantilevered sidewalks on the Noix Creek Bridge. With a construction date of 1935-36, this span in Pike County falls well within the mainstream of this minor structural trend in Missouri.

NAME(S) OF STRUCTURE
Noix Creek Bridge

PHOTOS AND SKETCH MAP OF LOCATION



LOCATION MAP
TAKEN FROM MISSOURI HIGHWAY AND TRANSPORTATION DEPARTMENT
GENERAL HIGHWAY MAP



SOURCES
Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure No. K 487R; Missouri Primary System Bridge Record, located at the Missouri Highway and Transportation Department, Jefferson City MO; Fraserdesign, "Noix Creek Bridge: Preliminary Determination of NRHP Eligibility for the Missouri Historic Bridge Inventory," 29 September 1992; field inspection by Clayton Fraser, 14 September 1990.

INVENTORIED BY	AFFILIATION	DATE
Clayton B. Fraser	Fraserdesign, Loveland CO	26 March 1991