

Oinck Bridge

RAY019

GENERAL DATA

| | | | |
|----------------|----------|------------------|---------------------------|
| structure no.: | 376000.8 | city/town: | 1.5 miles south of Orrick |
| county: | Ray | feature inters.: | Fishing River |
| | | cadastral grid: | S27, T51N, R29W |
| | | highway route: | County Road 376 |
| | | highway distr.: | 4 |
| | | current owner: | Ray County |

STRUCTURAL DATA

superstructure: steel, 8-panel, pin-connected Pratt through truss; 2 steel stringer approaches at each end

substructure: steel pile bent abutments; concrete-filled steel cylinder piers

| | | | |
|----------------|--------|-----------------|---|
| span number: | 1 | condition: | good |
| span length: | 160.0' | alterations: | none |
| total length: | 232.0' | floor/decking : | timber deck over steel stringers |
| roadway width: | 11.8' | other features: | upper chord and inclined end post: 2 channels with cover plate and lacing; lower chord: 2 punched rectangular eyebars; vertical: 2 channels with lacing (4 angles with lacing at hip); diagonal: 2 punched rectangular eyebars; counter: eyerod with turnbuckle; lateral bracing: round rod with threaded ends; strut: 2 angles with knee braces; floor beam: I-beam; guardrail: 2 channels |

HISTORICAL DATA

erection date: 1904

erection cost: \$5900.00 (contract amount)

designer: American Bridge Company, New York NY

fabricator : American Bridge Company, New York NY

contractor: American Bridge Company, New York NY

references: Missouri Highway and Transportation Department, Structure Inventory and Appraisal: Structure Number 376000.8; Ray County Court Record, Book R: page 569 (2 August 1904) -located at the Ray County Courthouse, Richmond MO; field inspection by Lon Johnson, 9 September 1990.

sign. rating: 51

evaluation: NRHP possibly eligible (well-preserved, long-span example of mainstay structural type)

Inventoried by: Michelle Crow-Dolby 3 August 1992

HAER INVENTORY

Missouri Historic Bridge Inventory

NAME(S) OF STRUCTURE

Oinck Bridge
MHTD: 376000.8

RAY019

DATE(S) OF CONSTRUCTION

1904

LOCATION

County Road 376 over Fishing River; S27, T51N, R29W
1.5 miles south of Orrick; Ray County, Missouri

USE (ORIGINAL / CURRENT)

roadway bridge / roadway bridge

RATING NRHP possibly eligible (score: 51)

CONDITION

good

OWNER

Ray County

span number: 1
span length: 160.0'
total length: 232.0'
roadway wdt.: 11.8'

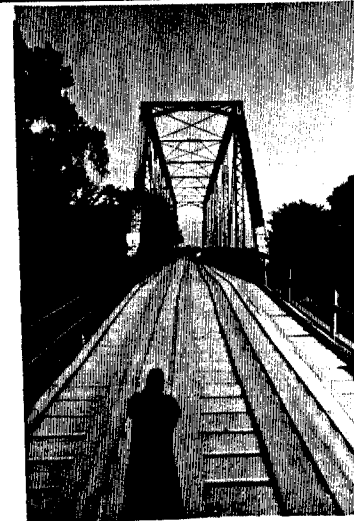
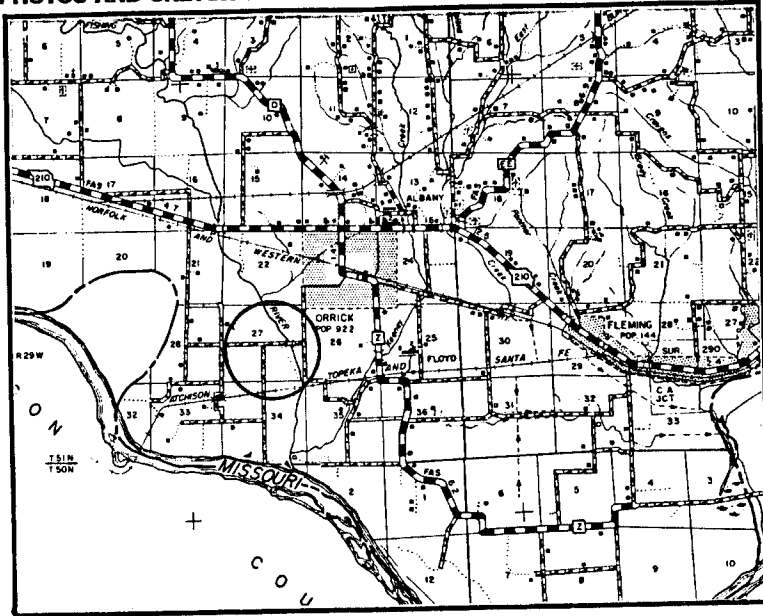
superstructure: steel, 8-panel, pin-connected Pratt through truss; 2 steel stringer approaches at each end
substructure: steel pile bent abutments; concrete-filled steel cylinder piers
floor/decking: timber deck over steel stringers
other features: upper chord and inclined end post: 2 channels with cover plate and lacing; lower chord: 2 punched rectangular eyebars; vertical: 2 channels with lacing (4 angles with lacing at hip); diagonal: 2 punched rectangular eyebars; counter: eyerod with turnbuckle; lateral bracing: round rod with threaded ends; strut: 2 angles with knee braces; floor beam: I-beam; guardrail: 2 channels

Carrying a county road in the southwestern corner of Ray County, the Oinck Bridge spans the Fishing River south of Orrick. The Pratt through truss features pinned connections throughout and has an overall length of 232 feet. The entire structure is supported by a steel substructure. On August 2, 1904, a contract was let to American Bridge Company to fabricate and build this bridge and two others. The contract amount for this structure, \$5900.00, was unusually high, apparently owing to the bridge's large scale. The New York-based contractor presumably completed the crossing the same year with no notable difficulties. Since its construction, the Oinck Bridge has retained a high degree of structural integrity and continues to carry vehicular traffic in its rural setting.

Marketed exclusively by virtually all of the in-state and regional bridge contractors and promoted in the form of standardized designs, the pinned Pratt through truss was widely used by Missouri's counties to carry roads over the state's myriad watercourses. Thousands of such trusses were erected across the state in the late 19th and early 20th centuries, and many remain in place today. The Oinck Bridge, with unremarkable dimensions and detailing, thus typifies this widespread bridge building trend.

NAME(S) OF STRUCTURE
Oinck 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 Number 376000.8; Ray County Court Record, Book R: page 569 (2 August 1904) -located at the Ray County Courthouse, Richmond MO; field inspection by Lon Johnson, 9 September 1990.

INVENTORIED BY
Michelle Crow-Dolby

AFFILIATION
Fraserdesign, Loveland CO

DATE
3 August 1992