

HABS/HAER INVENTORY

See "HABS/HAER Inventory Guidelines" before filling out this card.

1. NAME(S) OF STRUCTURE

Sanders Bridge (Rio Puerco Bridge)

ADOT: 3074

3. DATE(S) OF CONSTRUCTION

1923

2. LOCATION

Indian Route 9402 over the Puerco River
Sanders; SW1/4 S13 T21N R28E
Apache County, Arizona

4. USE (ORIGINAL/CURRENT)

highway bridge / roadway bridge

5. RATING

NRHP eligible: local significance

6. CONDITION

fair; sufficiency rating: 29.0

owner: U.S. Bureau of Indian Affairs

span number : 2

superstructure: riveted steel, 6-panel Pratt pony truss w/ outriders

span length : 75.0'

substructure : concrete abutments w/ solid concrete piers

total length: 190.0'

floor/decking : asphalt over timber deck w/ timber stringers

roadway wdt.: 14.8'

other features: upper chord: 2 channels w/ cover plate and webbing; lower chord: 2 angles w/ batten plates; vertical: 4 angles w/ continuous plate; diagonal: 2 angles w/ batten plates; lateral bracing: 1 angle; floor beam: I beam; steel angle guardrails

7. DESCRIPTION

In 1922, the Arizona Highway Department began the major reconstruction of the Holbrook-Lupton Highway between Adamana and the state line. Two critical components of the project were the erection of substantial bridges over the Rio Puerco near the small Indian settlements of Sanders and Allentown. For the Sanders Bridge, AHD staff engineers designed two medium-span pony trusses supported by continuous concrete piers. Timber stringers formed approach spans on both sides. Using money from the state road fund and an Apache County bond issue, AHD let the contracts for the Sanders and Allentown bridges and a small pony truss over Lupton Arroyo at Lupton on January 1, 1923. The Monarch Engineering Company of Denver was awarded the contract for the Sanders Bridge. Monarch began construction of the bridge on May 22, worked through the summer, and, using steel milled by Inland, completed the structure on September 10. Total construction cost: \$15,005. Both the Sanders and Allentown crossings were removed from the highway by another realignment in 1931, and the bridges have since carried local traffic on the Navajo Indian Reservation.

Later designated U.S. Highway 66, the Santa Fe Highway was a major transcontinental route across northern Arizona. Before the construction of this bridge, traffic on the highway often was forced to wait up to 24 hours for the Rio Puerco to subside enough to permit fording. The Sanders Bridge thus formed an important link on a major interstate route. The bridge is further significant as one of the earliest pony trusses built by the State Engineer, erected by a regionally active bridge contractor. Technologically, the Sanders Bridge is a representative and unaltered example of a common vehicular truss configuration: one of three riveted Pratt pony trusses identified in the inventory.

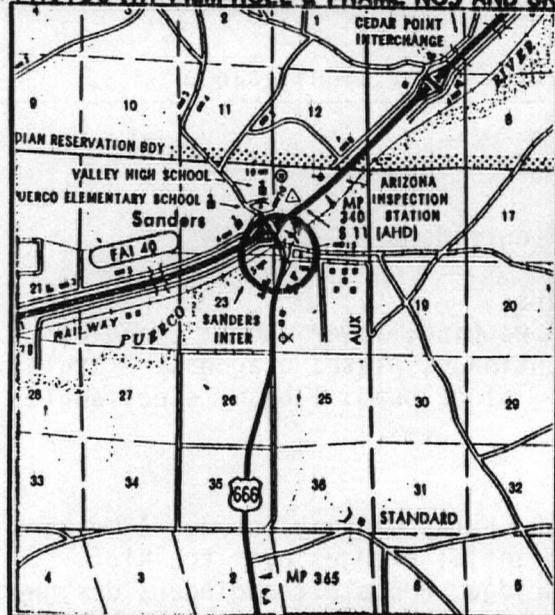
8. HISTORICAL DATA

9. SIGNIFICANCE

10. NAME(S) OF STRUCTURE

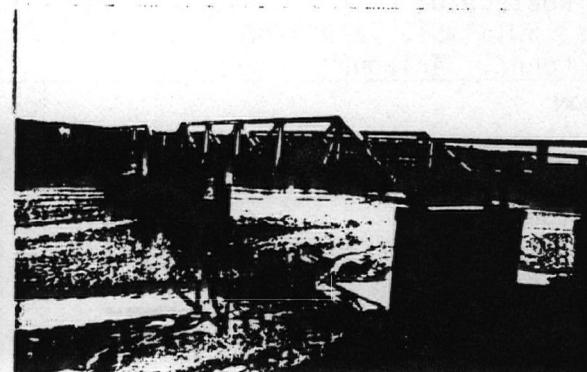
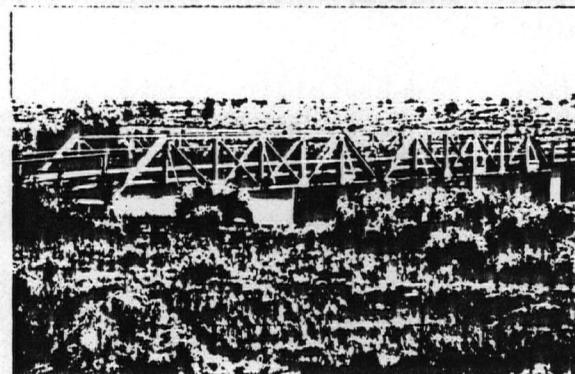
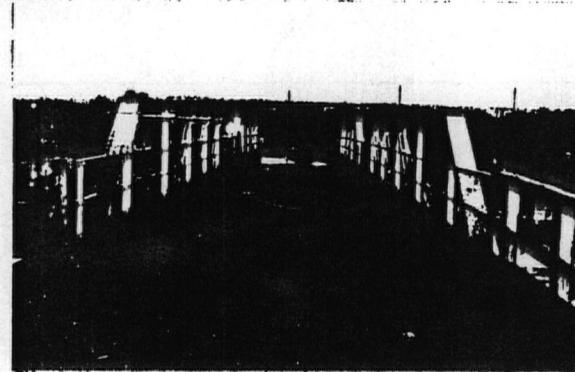
Sanders Bridge

11. PHOTOS (W/ FILM ROLL & FRAME NO.) AND SKETCH MAP OF LOCATION



LOCATION MAP

TAKEN FROM DEPARTMENT OF TRANSPORTATION
GENERAL HIGHWAY MAP



Field inspection by Clayton Fraser, 9 October 1986.

Bridge Record, Arizona State Highway System: 3074; Structures Section, Arizona Department of Transportation, Phoenix Arizona.

Fifth Biennial Report of the State Engineer, Arizona, 1920-1922 (n.p., 1922), pages 54, 93-94.

Sixth Biennial Report of the State Engineer, Arizona, 1922-1924 (Phoenix: Manufacturing Stationers, Inc., 1924), pages 145, 166, 172-73.

Seventh Biennial Report of the State Engineer, Arizona, 1924-1926 (Phoenix: Kelly Print, 1926), page 51.

13. INVENTORIED BY:

Clayton B. Fraser

AFFILIATION

Fraserdesign Loveland Colorado

DATE

1 April 1987

United States Department of the Interior
National Park ServiceNational Register of Historic Places
Continuation Sheet

Section number _____ Page _____

Multiple Resource Area
Thematic GroupName Vehicular Bridges in Arizona MPS
State Apache County and others, ARIZONA

Nomination/Type of Review

Date/Signature

Cover
Apache County
1. Allentown BridgeEntered in the
National Registerfor Keeper Patrick Andrus 9/30/88Keeper Alma Byers 9/30/88

Attest

S 2. Petrified Forest Bridge

Substantive Review

for Keeper Patrick Andrus 9/30/88

sak

Attest

3. Querino Canyon Bridge

Substantive Review

for Keeper Patrick Andrus 9/30/88

sak

Attest

S 4. Sanders Bridge

Substantive Review

for Keeper Patrick Andrus 9/30/88

sak

Attest

5. Desert Wash Bridge

Substantive Review

for Keeper Return

S 6. Douglas Underpass

Substantive Review

Attest

for Keeper Patrick Andrus 9/30/88

sak

Attest

7. Hereford Bridge

Substantive Review

for Keeper Patrick Andrus 9/30/88

sak

Attest

S 8. Canyon Diablo Bridge

Substantive Review

for Keeper Patrick Andrus 9/30/88

sak

Attest

9. Canyon Padre Bridge

Entered in the
National Registerfor Keeper Patrick Andrus 9/30/88

sak

Attest

S 10. Dead Indian Canyon Bridge

Substantive Review

for Keeper Patrick Andrus 9/30/88

sak

Attest

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES
EVALUATION/RETURN SHEET

REQUESTED ACTION: NOMINATION

PROPERTY NAME: Sanders Bridge

MULTIPLE NAME: Vehicular Bridges in Arizona MPS

STATE & COUNTY: ARIZONA, Apache

DATE RECEIVED: 8/17/88 DATE OF PENDING LIST: 8/30/88
DATE OF 16TH DAY: 9/15/88 DATE OF 45TH DAY: 10/01/88
DATE OF WEEKLY LIST:

REFERENCE NUMBER: 88001618

NOMINATOR: STATE

REASONS FOR REVIEW:

APPEAL: N DATA PROBLEM: N LANDSCAPE: N LESS THAN 50 YEARS: Y
OTHER: N PDIL: N PERIOD: N PROGRAM UNAPPROVED: N
REQUEST: N SAMPLE: Y SLR DRAFT: N

COMMENT WAIVER: N

ACCEPT RETURN REJECT 9/30/88 DATE

ABSTRACT/SUMMARY COMMENTS:

ABSTRACT/SUMMARY COMMENTS (CONTINUED FROM PREVIOUS SIDE)

Significant under criterion C as one of 3 riveted Pratt pony trusses, identified in statewide Inventory. Significant under A as an important link on major interstate route. SLR completed to resolve period of significance question. - No SLR, DOCUMENTATION see attached comments Y/N see attached SLR Y/N period of significance acceptable for this resource.

Decision: Accept-A,C

Date: 9/20/88

Signature: Noble

Title: Historian

count resource type

STATE/FEDERAL AGENCY CERTIFICATION

FUNCTION

historic current

DESCRIPTION

architectural classification materials descriptive text

SIGNIFICANCE

criteria criteria considerations areas of sig.
 periods of sig. significant dates cultural affl.
 sig. person architect/builder sig. statement

BIBLIOGRAPHY

GEOGRAPHICAL DATA

acreage verbal boundary description
 UTM's boundary justification

ACCOMPANYING DOCUMENTATION/PRESENTATION

sketch maps USGS maps photographs presentation

OTHER COMMENTS

Questions concerning the nomination may be directed to

Signed _____ Date _____ Phone _____



25) 3074 SANDERS BRIDGE (ARIZONA VEHICULAR BRIDGE)

