Survey Number:

T - 25

Bridge Name and Address:

Marion Bridge L.R. 451 over Monongahela River

Green County and Fayette County

Owner:

Commonwealth of Pennsylvania Department of Transportation Transportation & Safety Building Harrisburg, Pennsylvania 17120

Statement of Significance:

The Marion Bridge is an unusual multiple span bridge consisting of Warren trusses constructed as typical cantilever through truss bridge. This bridge is the only example of a Warren through truss, and the only cantilever through bridge truss included in this nomination. This cantilever bridge appears to be of the "suspended span cantilever truss" type which began to be built in the United States about 1885. This type of structure looks like a three span bridge with two towers central piers. It functions structurally with the two outside spans acting as anchor spans, and the inner, pier-side two portions span acting as of the center cantilever arms; these cantilever arms support the central portion of the middle span, which is thus a floating or suspended span. In the last decade of the nineteenth century and the early decades of the twentieth century, cantilever truss was frequently used in the United States for major river crossings. This structure type made it possible to span distances greater than generally possible with simple span trusses.

Area of Significance:

Engineering.

Boundary Description:

The nominated property consists of a 810 feet long by 28 feet wide rectangle whose vertices coincide with the outside corners of the bridge's abutments, and includes only bridge superstructure and substructure.

Acreage of Nominated Property:

Less than one acre.

15. TYPE	CHARACTERISTICS
Truss: continuous/cantilever:	webbing: lattice, 31 Pannelssspan anchor span: cantilever span: suspended span: thru/deck/low (pony): full-slope/half-hip. connections: pin/riveted. eyebars: loop welded/die forged. railing: latticed/applied guardrail columns: channels/lacing bars thru/deck/½-thru. fixed (hingeless) /1/2/3-hinged. ribs: solid/braced; crescent/parallel. spandrels: open/solid/braced. intrados/vault; ribbed/solid. shape: semi-circular/elliptical/segmental; stilted. skew
Suspension: Bascule: Swing:	stiffening: braced-chain (1/2/3-hinged) /suspended truss. wire cable: twisted/parallel. eyebar chain. back-stay: straight/curved. single/double leaf. rolFing lift: Schertzer. trunnion: simple (Chicago) /multiple (Strauss). counterweights: heel/overhead. Page/Rall. semi-lift/direct lift. bearing: center/rim/combination. (see Truss above).
☐ Vertical Lift: ☐ Other:	(see Truss above). other:
Superstructure type main span: steel towers: steel; railings: steel; Substructure piers: conc.; abutments: conc.; wings: intrados/ribs: voussoirs: ;	treatment/finish source Carnegie Carnegie Carnegie Smooth Smooth
17. PHOTO NO's. 12-04 (20-37) Proof Sheet GR-3A	18. PREPARED BY: D. Piccolomini & M. Francis AGENCY/ORGANIZATION: PA DOT/12/20; DATE: 7/82

PENNSYLVANIA HISTORIC RESOURCE SURV Bureau for Historic Preservation Box 1020 PA Historical & Museum Commission Harrisbur 8. USGS QUAD. Morgantown, W.VA UTM's: Zone 17 (north) E 5 9 3 8 0 0 N 4 3 9 9 1 9 0 E	9. HISTORICAL DATA	5. Figurian Bridge	County Gree
Monongahela R./ L.R. 451	; basis; basis; basis; basis; basis; basis	6. Other name (historig) ame if any)	1 1
11. INTEGRITY	VIEW no.		
<pre>x_altered; 1954-61-69 . _unaltered; _moved; Explain:</pre>		7. Crossing	3. Structure No.
repairs	РНОТО		0141
13. COMMENTS Unusual features:			ا لـما لـيلخ
N/ K		over	اولولولو
Locale/environment: Rural Residential - Connects Green Counties Machinery (describe/identify t equipment):	main: no., ft.	Mon River	4. Survey Code 0101 12-310 T-25



