

9. HISTORICAL DATA

8. USGS QUAD. Wilkes-Barre West

UTM's: Zone 18

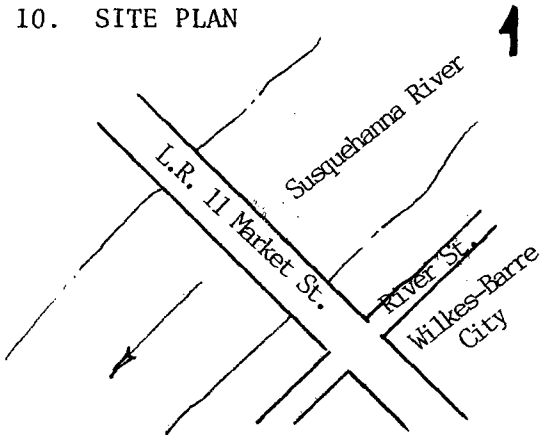
E	4	2	5	8	2	0	
N	4	5	6	6	5	2	0
E							
N							

Designer/Engineer:  
 Carrere & Hastings, Architects  
 52 Vanderbilt Avenue, New York

Builder/Contractor:  
 Walter S. Rae, Pittsburgh, Pa.

Bridge Company:  
 Unknown

10. SITE PLAN



Date(s): 1926-29 ; basis \_\_\_\_\_

\_\_\_\_\_ ; basis \_\_\_\_\_

\_\_\_\_\_ ; basis \_\_\_\_\_

\_\_\_\_\_ ; basis \_\_\_\_\_

Use: Vehicular and Trolley present; Vehicular original.

11. INTEGRITY

altered; slightly \_\_\_\_\_.

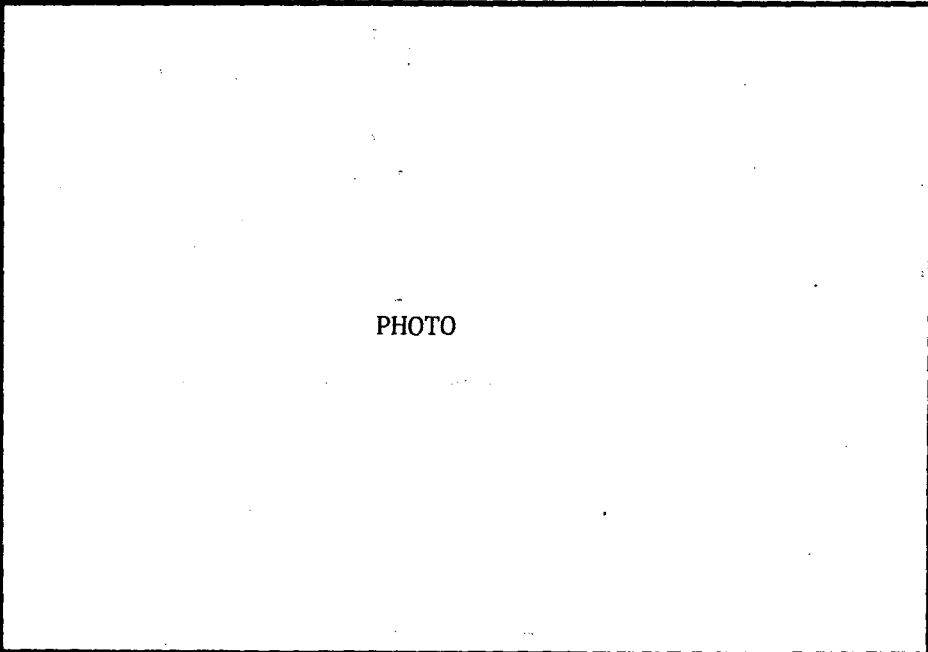
unaltered; \_\_\_\_\_.

moved; \_\_\_\_\_.

Explain:  
 Original lighting standards altered. Lane signal standards added.

12. VIEW

no.



13. COMMENTS

Unusual features:  
 4 hand carved eagles  
 2 trolley tracks  
 extensive granite stone work, towers

Locale/environment:  
 Urban area

Machinery (describe/identify type/equipment):  
 N/A

14. DIMENSIONS

spans: 11 no., 1274.3ft. O/A

main: 4 no., 120 ft.

secondary: \* no., \_\_\_\_\_ ft.

approach: 1 no., 50/82 ft.

piers: 11 no.

towers: \_\_\_\_\_ no., \_\_\_\_\_ ft.

1. County Luzerne	2. Municipality Wilkes-Barre & Kingston	3. Structure No. [4][0][1][0][0][1][1][1][0][0][0][2][4][8][7]	4. Survey Code 40-111 C-24
5. Present Name Market Street Bridge	6. Other name (historic name if any) N/A	7. Crossing Market St. (L. R. 11) over Susquehanna River	

15. TYPE

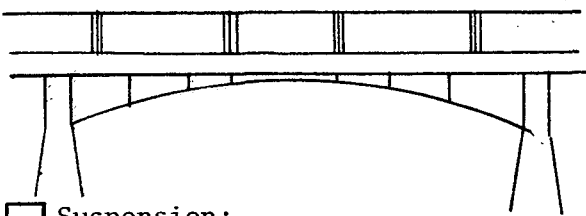
CHARACTERISTICS

Truss: continuous/cantilever:

- webbing: \_\_\_\_\_.
- anchor span: \_\_\_\_\_.
- cantilever span: \_\_\_\_\_.
- suspended span: \_\_\_\_\_.
- thru/deck/low (pony): full-slope/half-hip.
- connections: pin/riveted.
- eyebars: loop welded/die forged.
- railing: \_\_\_\_\_.
- columns: \_\_\_\_\_.

Arch: masonry/metal:

- thru/deck/1/2-thru.
- fixed (hingelless) /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:

- stiffening: braced-chain (1/2/3-hinged) /suspended truss.
- wire cable: twisted/parallel.
- eyebar chain.
- back-stay: straight/curved.

Bascule:

- single/double leaf.
- rolling lift: Schertzer.
- trunnion: simple (Chicago) /multiple (Strauss).
- counterweights: heel/overhead.
- Page/Rall.
- semi-lift/direct lift.

Swing:

- bearing: center/rim/combination.
- (see Truss above).

Vertical Lift:

- (see Truss above).

Other:

- other: \_\_\_\_\_.

16. MATERIALS (primary)

Superstructure	type	treatment/finish	source
main span:	Concrete	Granite	Vermont
towers:	Concrete	Granite	Vermont
railings:	Concrete	Granite	Vermont
Substructure			
piers:	Concrete	Smooth	
abutments:	Concrete	Granite	Vermont
wings:	Concrete	Granite	Vermont
intrados/ribs:	Concrete	Concrete	
voussoirs:	Concrete	Granite	Vermont

17. PHOTO NO's.

All Photos Attached

18. PREPARED BY: Edward P. Osnick

AGENCY/ORGANIZATION: PennDOT, District 4-0  
 ; DATE: 8-1-83

Survey Number: C-24

Bridge Name and Address: Market Street Bridge  
L.R. 11 over Susquehanna River  
Luzerne County

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

Statement of Significance: The Market Street Bridge is one of the most important bridges crossing the Susquehanna River. Built from 1926-1929, it is an excellent example of a long-span 1920s urban bridge. This bridge is one of the longest and most highly ornamented concrete bridges in the nominated group. This monumental twelve-arch reinforced concrete and granite structure incorporates two pylons at approach; each pylon is topped with a giant carved limestone eagle. The bridge was designed by Carrere and Hastings, a renowned New York City architectural firm that also claims the New York Public Library among its important commissions. A water gauging station (inoperable since 1943) and ornamental light standards were included in the original construction. Most of the original light standards have been replaced. The six longer spans over the river comprise open spandrel arches of three wide ribs each. The end spans over the floodplain consist of shorter barrel arches with solid spandrel walls. Construction of the 12 arches was accomplished using adjustable steel trusses for centering. A 1,500 foot long cable way hung from large towers on the river banks to convey concrete in hoppers to the middle spans. This bridge replaced a metal truss.

Boundary Description: The nominated property consists of a 1,406 feet long by 87 feet wide rectangle whose vertices

coincide with the outside corners of the bridges wing walls, and includes only bridge superstructure and substructure.

Acreage of Nominated  
Property:

Three acres.

WILKES-BARRE WEST QUADRANGLE  
PENNSYLVANIA-LUZERNE CO.  
7.5 MINUTE SERIES (TOPOGRAPHIC)

NW/4 WILKES-BARRE 15' QUADRANGLE

*Market St. over Susquehanna River  
Market Street Bridge: C-24  
Luverne County  
Zone 18 - Wilkes Barre West  
Quad  
E425820 N4566520*

