

9. HISTORICAL DATA

8. USGS QUAD. Perkiomenville

UTM's: Zone 18
 E | 4 | 5 | 8 | 7 | 4 | 0 |
 N | 4 | 4 | 5 | 8 | 1 | 2 | 0 |
 E | | | | | | | |
 N | | | | | | | |

Designer/Engineer:

Unknown

Builder/Contractor:

Unknown

Bridge Company:

Phoenix Bridge Company

Date(s): 1888 ; basis form #488A

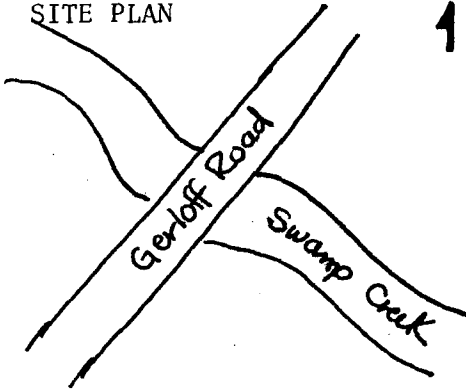
_____ ; basis

_____ ; basis

_____ ; basis

Use: Vehicular present; same original.

10. SITE PLAN



12. VIEW

no.

PHOTO

11. INTEGRITY

_____ altered; _____
 unaltered; _____
 _____ moved; _____

Explain:

13. COMMENTS

Unusual features:

Structure closed to traffic
 Phoenix columns

Locale/environment:

rural woodlands & farmlands

Machinery (describe/identify type/
 equipment):

N/A

14. DIMENSIONS

spans: _____ no., _____ ft. 0/A

main: 1 no., 135 ft.

secondary: _____ no., _____ ft.

approach: _____ no., _____ ft.

piers: _____ no.

towers: _____ no., _____ ft.

1. County: Montgomery

2. Municipality: U. Frederick Twp.

3. Structure No.: 146210109021101009433

4. Survey Code: 910 T-34

5. Present Name: Bridge in Upper Frederick Twp.

6. Other name (historic name if any): N/A

7. Crossing: Gerloff Road over Swamp Creek

15. TYPE

CHARACTERISTICS

Truss: continuous/cantilever:

- webbing: none
- anchor span: _____
- cantilever span: _____
- suspended span: _____
- thru/deck/low (pony): full-slope/half-hip.
- connections: pin/riveted.
- eyebars: loop welded/die forged.
- railing: 1" pipe
- columns: Phoenix

Arch: masonry/metal:

- thru/deck/1/2-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:

- 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:	<u>metal</u>	_____	_____
towers:	_____	_____	_____
railings:	<u>1" pipe</u>	_____	_____
Substructure			
piers:	<u>masonry</u>	<u>coursed</u>	_____
abutments:	_____	_____	_____
wings:	<u>masonry</u>	<u>random</u>	_____
intrados/ribs:	_____	_____	_____
voussoirs:	_____	_____	_____

17. PHOTO NO's.

06-44(15-21)

18. PREPARED BY:

AGENCY/ORGANIZATION: Dist 6-0
; DATE: 11/8/82

Survey Number: T-34

Bridge Name and Address: Bridge in Upper Frederick
Township
L.R. 46021 over Swamp Creek
Montgomery County

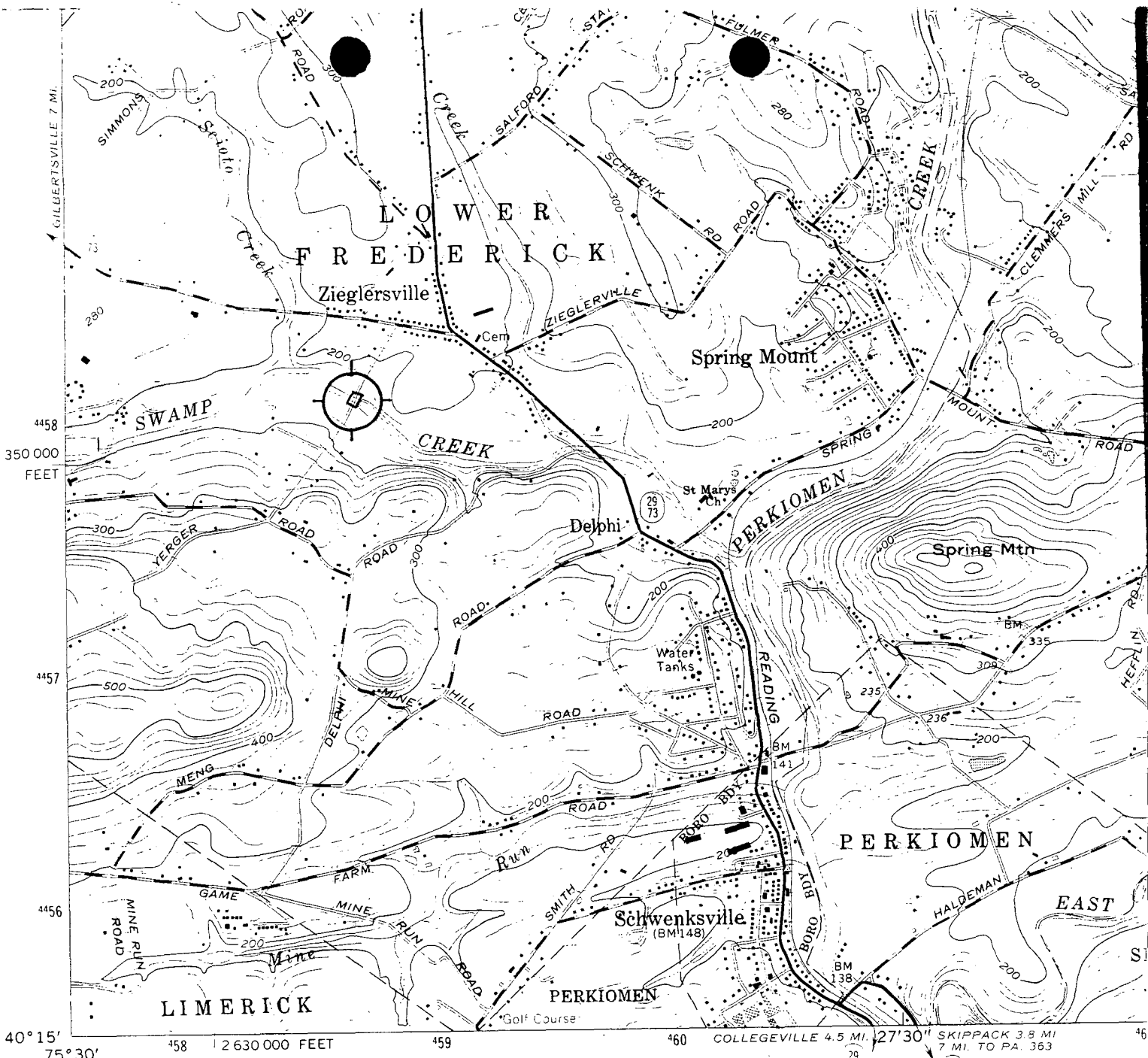
Owner: Commonwealth of Pennsylvania
Department of Transportation
Transportation & Safety Building
Harrisburg, Pennsylvania 17120

Statement of Significance: The Bridge in Upper Frederick Township is an example of a Pratt through truss made with Phoenix column compression members. It was built in 1888. Of the fourteen Pratt through trusses included in this nomination, only this one was fabricated with compression members of Phoenix columns. This patented column was a trademark of the nationally prominent Phoenix Bridge Company. This wrought iron column was fabricated of flanged, segmental sections which were riveted together to form a tube. This bridge is one of only four trusses included in this nomination which are located in the southeastern portion of Pennsylvania.

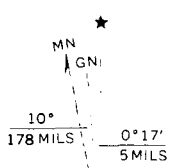
Area of Significance: Engineering

Boundary Description: The nominated property consists of a 135 feet long by 25 feet wide rectangle whose vertices coincide with the outside corners of the bridge's wing walls, and includes only bridge superstructure and substructure.

Acreage of Nominated Property: Less than one acre.



Mapped by the Army Map Service
 Edited and published by the Geological Survey
 Control by USGS and USC&GS
 Topography by photogrammetric methods from aerial photographs taken 1942. Planimetry revised by the Geological Survey 1960
 Polyconic projection. 1927 North American datum
 10,000-foot grid based on Pennsylvania coordinate system, south zone
 1000-meter Universal Transverse Mercator grid ticks, zone 18, shown in blue
 Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked
 Features shown in purple (mounds) are the Geological Survey in cooperation with the State of Pennsylvania agencies from aerial photographs taken 1969 and 1973. This information not field checked



UTM GRID AND 1973 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

Pennsylvania D.O.T. Owned Highway Bridges
 Bridge in Upper Frederick Twd. T-34
 Montgomery County - Perkiomenville Road
 Zone 18
 E 458740 N 4458120