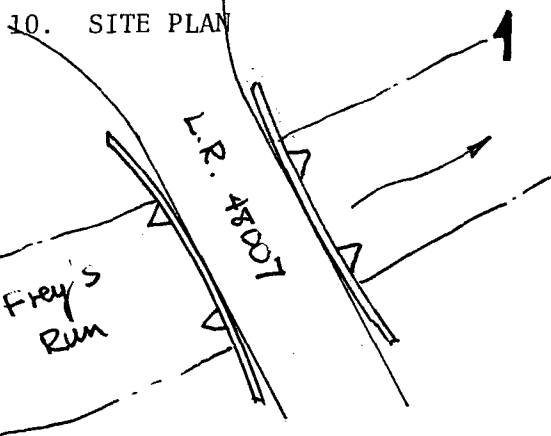


9. HISTORICAL DATA

8. USGS QUAD. Riegelsville,
 PA-NJ
 UTM's: Zone 18
 E | 4 | 8 | 0 | 4 | 1 | 0 |
 N | 4 | 4 | 9 | 5 | 3 | 7 | 0 |
 E | | | | | | | |
 N | | | | | | | |

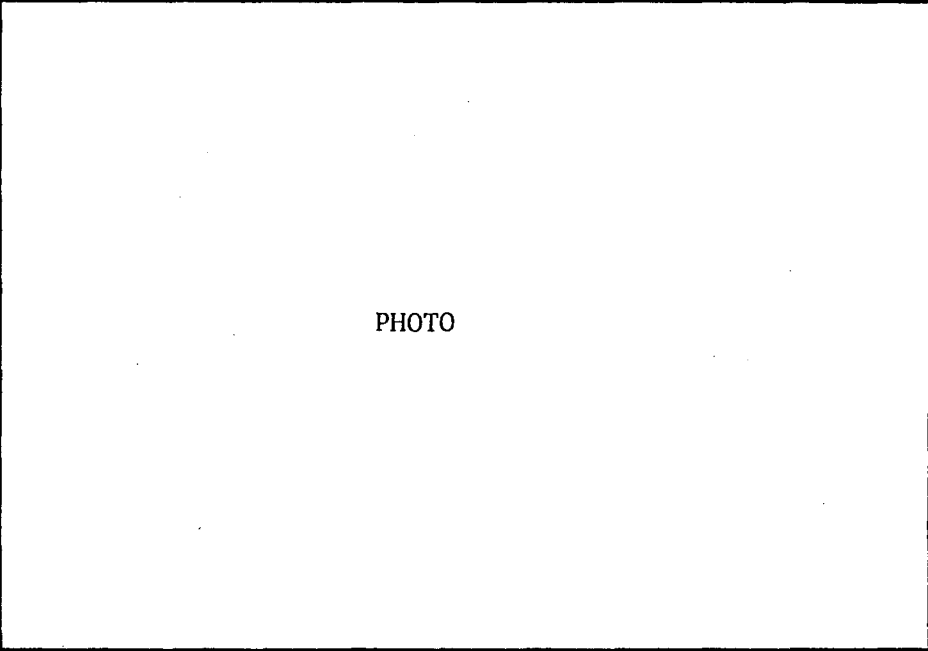
Designer/Engineer: Unknown
 Builder/Contractor: Unknown
 Bridge Company: Unknown

Date(s): 1857 ; basis
PennDOT Records
1857 ; basis
Bridge Plate
 ; basis
 ; basis
 Use: present ; original.



11. INTEGRITY
unaltered; Piers
unaltered;
moved;
 Explain:
 Underpinned with
 concrete blocks -
 repointed joints

12. VIEW no.



13. COMMENTS
 Unusual features:

Locale/environment:
 Rural - Farmland
 Machinery (describe/identify type/
 equipment):

14. DIMENSIONS
 spans: 3 no., 45 ft. 0/A
 main: 1 no., 15 ft.
 secondary: 2 no., 10 ft.
 approach: no., ft.
 piers: no.
 towers: no., ft.

1. County: **NORTHAMPTON**
 2. Municipality: **Williams Township**
 3. Structure No.: **480200007**
 4. Survey Code: **05-811 S-51**
 5. Present Name: **Bridge in Williams Township**
 6. Other name (historic name if any): **II/A**
 7. Crossing: **L.R. 48007** over **Frey's Run**

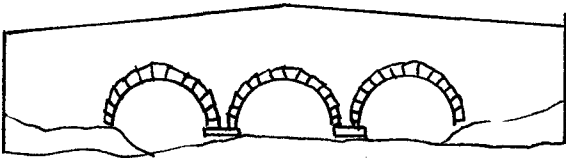
15. TYPE

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 (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 none

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/Rail.
- semi-lift/direct lift.

Swing:

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

Vertical Lift:

- (see Truss above).

Other:

- other: _____

16. MATERIALS (primary)

Superstructure	type	treatment/finish	source
main span:	Cut ashlar	Pointed joints	_____
towers:	_____	_____	_____
railings:	Rubble Mason	_____	_____
	w/slate coping	_____	_____
Substructure			
piers:	Rubble	Pointed joints	_____
abutments:	_____	_____	_____
wings:	_____	_____	_____
intrados/ribs:	Rubble mason	Pointed joints	_____
voussoirs:	Square Cut stone	Pointed joints	_____

17. PHOTO NO's.
05-02 (28-34)

18. PREPARED BY: A.F. Testen & C. DeWire
AGENCY/ORGANIZATION: PennDOT
Allentown ; DATE: 6-29-82

Survey Number: S-51

Bridge Name and Address: Bridge in Williams Township
L.R. 48007
Northampton County

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

Statement of Significance: The bridge built in 1857 township is an unusually small, multiple span stone arch bridge among the nominated bridges. The camelback shape of this bridge is a typical configuration for a nineteenth century highway bridge but the arch spans are extremely small. These semi-circular arches measure 15 feet and 10 feet long and appear to use islands in the stream for their pier locations. This bridge represents a throw back to much earlier bridge engineering when such small spans were routinely constructed. By the mid-19th century much longer spans could be and generally were constructed.

Area of Significance: Engineering.

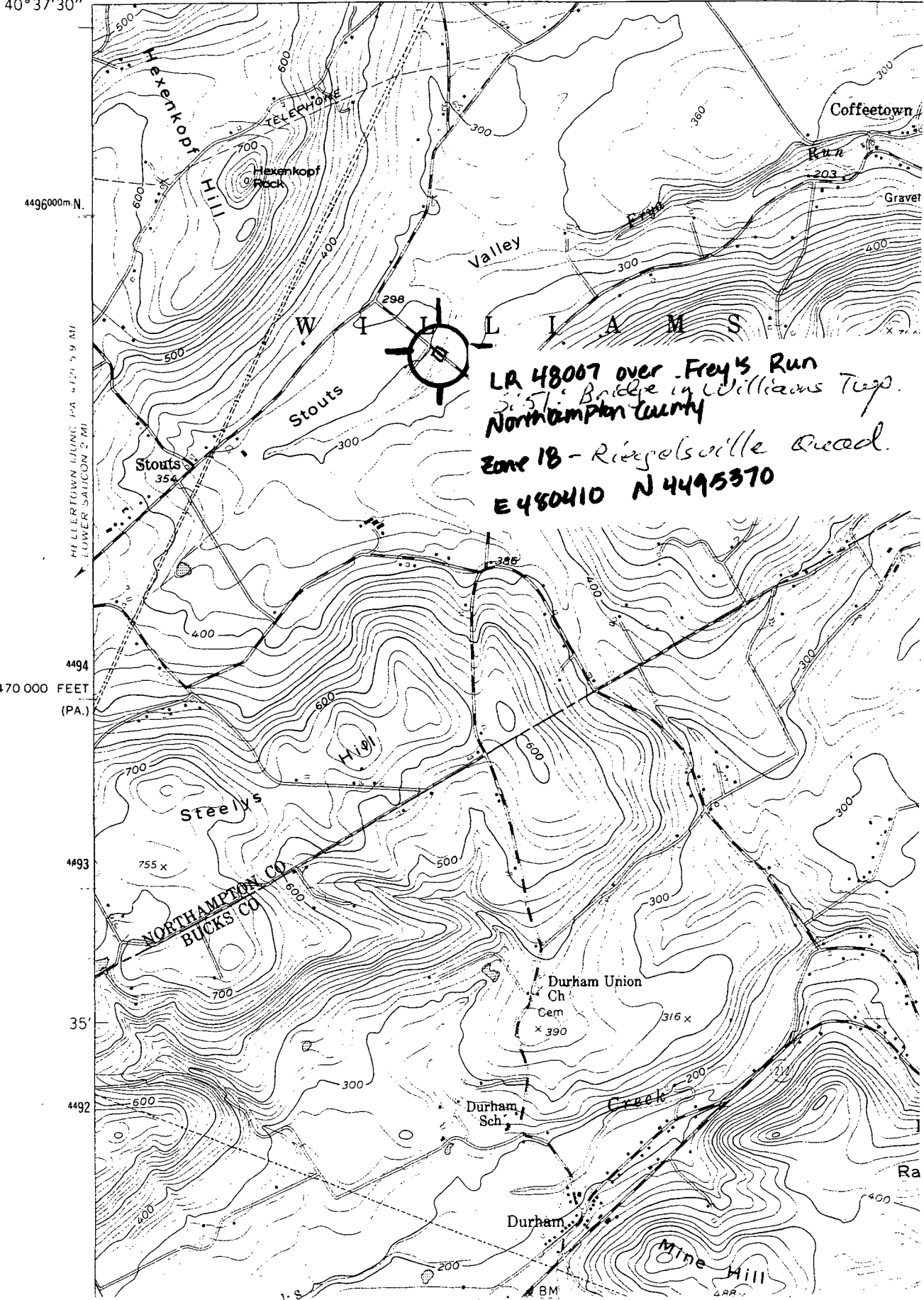
Boundary Description: The nominated property consists of a 80 feet long by 25 feet wide rectangle whose vertices coincide with the outside corners of the bridge's wing walls, and includes only bridge superstructure and substructure.

Acreage of Nominated Property: Less than one acre.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

5965 JLINE
(NAZARETH)

75° 15' 479000m.E 480 2 700 000 FEET (PA.) 481 482 12° 30"



Pennsylvania D.O.T. Owned Highway Bridges
Bridge in Williams Township S-51

LA 48007 over Frey's Run
3.5 mi. Bridge in Williams Twp.
Northampton County
Zone 1B - Ringolsville Quad.
E 480410 N 4495370

HELLERTOWN QUAD PA 4721 59 MI
LOWER SAICON 2 MI

4494
470 000 FEET
(PA.)

4493

35'

4492

1.5