Survey Number:	T-44
Bridge Name and Address:	Charleroi-Monessen Bridge L.R. 247 over Monongahela River Washington County and Westmoreland County
Owner:	Commonwealth of Pennsylvania Department of Transportation Transportation & Safety Building Harrisburg, Pennsylvania 17120
Statement of Significance:	The Charleroi-Monessen Bridge is a good example of a multiple span Pennsylvania (Petit) truss bridge. It was built in 1906 by the Mercantile Bridge Company. It combines three of the longer Pennsylvania (petit) truss spans in the nominated group with thirteen deck girder spans to form one of the longest bridges in the nominated group. It is located in the southwestern portion of the state, one of the areas of heavy truss bridge concentration in Pennsylvania.
Area of Significance:	Engineering.
Boundary Description:	The nominated property consists of a 2,458 feet long by 29 feet wide rectangle whose verticies coincide with the outside corners of the bridge piers at each end of the bridge, and includes only bridge superstructure and substructure.
Acreage of Nominated Property:	One and one-half acres.

NATIONAL REGISTER 000398

PENNSYLVANIA HISTORIC RESOURCE SURVEY FORM
Bureau for Historic Preservation Box 1026
PA Historical & Museum Commission Harrisburg, PA 17120

9. HISTORICAL DATA 1 of 3

8. USGS QUAD. 54 Mon. Orgahela

UTM's: Zone 17

E	F	9	3	3	4	0	
N	4	4	4	4	9	7	0
E							
N							

Designer/Engineer: Swenson, Emil
~~Emil Swenson~~

Builder/Contractor:

Bridge Company:
~~Merchantile Br. Co., J. K. Tenner, Pres.; C. F. Thompson, V. P. P. M. McCloskey, Sec.~~

Date(s): 1906 ; basis Bridge File

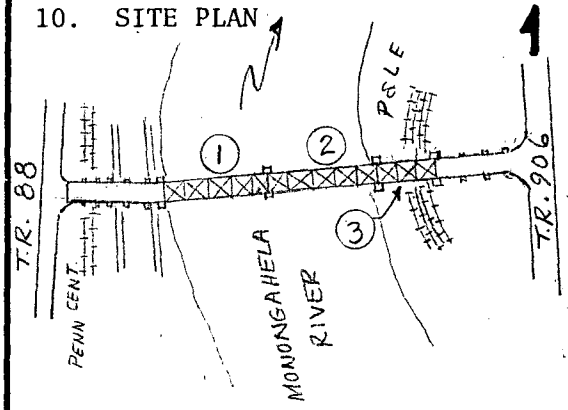
1906 ; basis Penn DOT took over all 1951 when Bridge Plaque

_____ ; basis

_____ ; basis

Use: Vehicular present; Vehicular original.

10. SITE PLAN



11. INTEGRITY

__altered;_____

X unaltered;_____

__moved;_____

Explain:

12. VIEW no.

13. COMMENTS

Unusual features:
Mixed Bridge has Metal & Steel Stair to Sidewalk
* 3 Truss spans and 13 Deck Girder Spans

Locale/environment: Connect Charleroi to Factories Accross River

Urban

Machinery (describe/identify type/ equipment):

14. DIMENSIONS

spans: 19* __no., 1857.5 ft. O/A
main: 2 no., 400 ft. each
secondary: __no., _____ft.
approach: __no., _____ft.
piers: 4 no.
towers: __no., _____ft.
bents 14

1. County: Washington 125
2. Municipality: Charleroi
3. Structure No.: 62 11 0 012 47 4 0 10 19 27
4. Survey Code: 12-310
5. Present Name:
6. Other name (historic name if any):
7. Crossing: I.R. 2475 over Mon River

15. TYPE 10 CHARACTERISTICS 60,58

[X] Truss: continuous/cantilever:
X PLAQUE:
Built in 1906
by the Merchantile
Bridge Company
John K. Tenner - Pres.
Charles F. Thompson - Vice. Pres.
David M. McCloskey, Sec.
Emil Swensson, Engineer

[ ] Arch: masonry/metal:

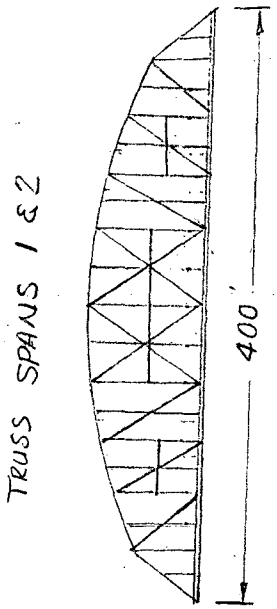
[ ] Suspension:

[ ] Bascule:

[ ] Swing:

[ ] Vertical Lift:

[ ] Other:



[X] webbing: Lacing
[X] anchor span: 400 Feet
[ ] cantilever span: ____
[ ] suspended span: ____
[X] thru/deck/low (pony)/full slope/half hip
[X] connections: pin/riveted.
[X] eyebars: loop welded/die forged.
[X] railing: Steel Rail
[X] columns: I-Beam Lacing

[ ] 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

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

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

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

[ ] (see Truss above).

[ ] other: ____

16. ~~MATERIALS (portal)~~ TWO APPROACHES 06, 09 14

	type	treatment/finish	source
Superstructure			
~~main span~~:	Steel I-Beam		
towers:			
railings:	Steel Rail		
Substructure			
piers:	Truss Configuration		
abutments:	Coursed Ashlar Broken Face		
wings:			
intrados/ribs:			
voussiors:			

17. PHOTO NO's.
12-04 (28-35) WA-4
12-05 (4-15) WA-5

18. PREPARED BY: J. Over & J. Hudacheck
AGENCY/ORGANIZATION: PA DOT/District 12-0
; DATE: 7/82

PENNSYLVANIA HISTORIC RESOURCE SURVEY FORM
Bureau for Historic Preservation Box 1026
PA Historical & Museum Commission Harrisburg, PA 17120

9. HISTORICAL DATA 2 of 3

8. USGS QUAD.

UTM's: Zone
E
N
E
N

Designer/Engineer:

Builder/Contractor:

Bridge Company:

Date(s): _____; basis

_____; basis

_____; basis

_____; basis

Use: present; original.

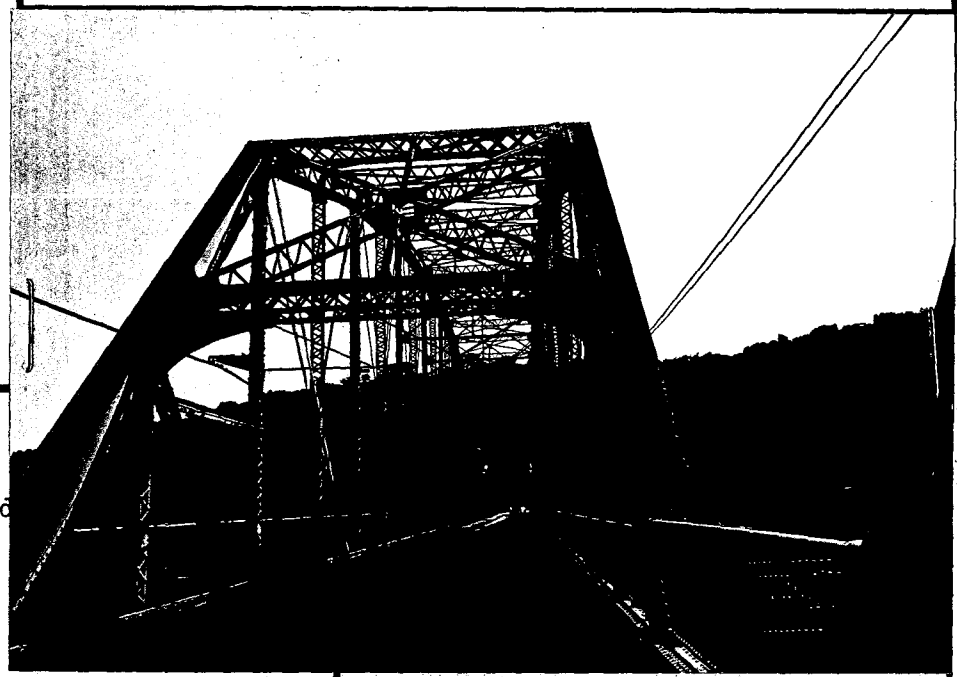
10. SITE PLAN 1

11. INTEGRITY

__altered;_____.
__unaltered;_____.
__moved;_____.

Explain:

12. VIEW no.



13. COMMENTS

Unusual features:
Contained both loop - Welded and Die Forged Eye Bars.

Locale/environment:

Machinery (describe/identify type/ equipment):

14. DIMENSIONS

spans: ___no., _____ft. O/A
main: ___no., _____ft.
secondary: ___no., _____ft.
approach: ___no., _____ft.
piers: ___no.
towers: ___no., _____ft.

1. County

5. Present Name

2. Municipality

6. Other name (historic name if any)

3. Structure No. 6 2 1 0 0 2 4 7 4 0 0 0 9 2 9

7. Crossing over

4. Survey Code

15. TYPE — CHARACTERISTICS

- [X] Truss: continuous/cantilever:
  - [X] webbing: Lacing.
  - [ ] anchor span: 400 ft.
  - [ ] cantilever span: ________.
  - [ ] suspended span: ________.
  - [X] thru/~~deck/bow (pony)/bubble slope/half-hip~~
  - [X] connections: pin/~~riveted~~
  - [X] eyebars: (loop welded/die forged.)
  - [ ] railing: Steel Rail.
  - [X] columns: I Beam Lacing.
- [ ] Arch: masonry/metal:
  - [ ] 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:
  - [ ] 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: ________.

TRUSS SAME AS SPAN (1)

16. MATERIALS (primary)

Superstructure	type	treatment/finish	source
main span:	Steel		Carnegie
towers:			
railings:			
Substructure			
piers:	Coursed Ashlar	- Broken Face	
abutments:			
wings:			
intrados/ribs:			
voussiors:			

17. PHOTO NO's.

18. PREPARED BY: J. Over & J. Hudacheck

AGENCY/ORGANIZATION: PA DOT/District 12-0
; DATE: 7/82

PENNSYLVANIA HISTORIC RESOURCE SURVEY FORM
Bureau for Historic Preservation — Box 1026
PA Historical & Museum Commission — Harrisburg, PA 17120

9. HISTORICAL DATA 3 of 3

8. USGS QUAD.

UTM's: Zone
E
N
E
N

Designer/Engineer: _____

Builder/Contractor: _____

Bridge Company: _____

Date(s): _____; basis

_____; basis

_____; basis

_____; basis

Use: present; original.

10. SITE PLAN 1

11. INTEGRITY

__altered;_____

__unaltered;_____

__moved;_____

Explain:

12. VIEW no.

13. COMMENTS

Unusual features:
2 Bridge Plaques Mounted on Top

Locale/environment:

Machinery (describe/identify type/equipment):

14. DIMENSIONS

spans: ___no., _____ft. O/A
main: ___no., _____ft. 245'
secondary: ___no., _____ft. W 29'
approach: ___no., _____ft.
piers: ___no.
towers: ___no., _____ft.

5. Present Name
1. County
6. Other name (historic name if any)
2. Municipality
7. Crossing over
3. Structure No. 62 11 0 0120417 1 0 0 0 9 2 7
4. Survey Code

15. TYPE

CHARACTERISTICS

[X] Truss: continuous/cantilever:

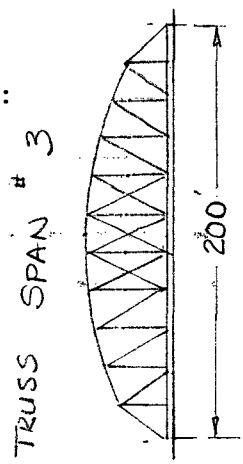
- [X] webbing: Lacing.
- [X] anchor span: 200 ft.
- [ ] cantilever span: _____.
- [ ] suspended span: _____.
- [X] thru/~~deck/low (pony)~~ ~~full~~ ~~slope/half~~ ~~hip~~.
- [X] connections: pin/~~riveted~~
- [X] eyebars: ~~loop welded~~/die forged.
- [X] railing: Steel Railings.
- [X] columns: Laced Angles.

[ ] Arch: masonry/metal:

- [ ] 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:

- [ ] 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:

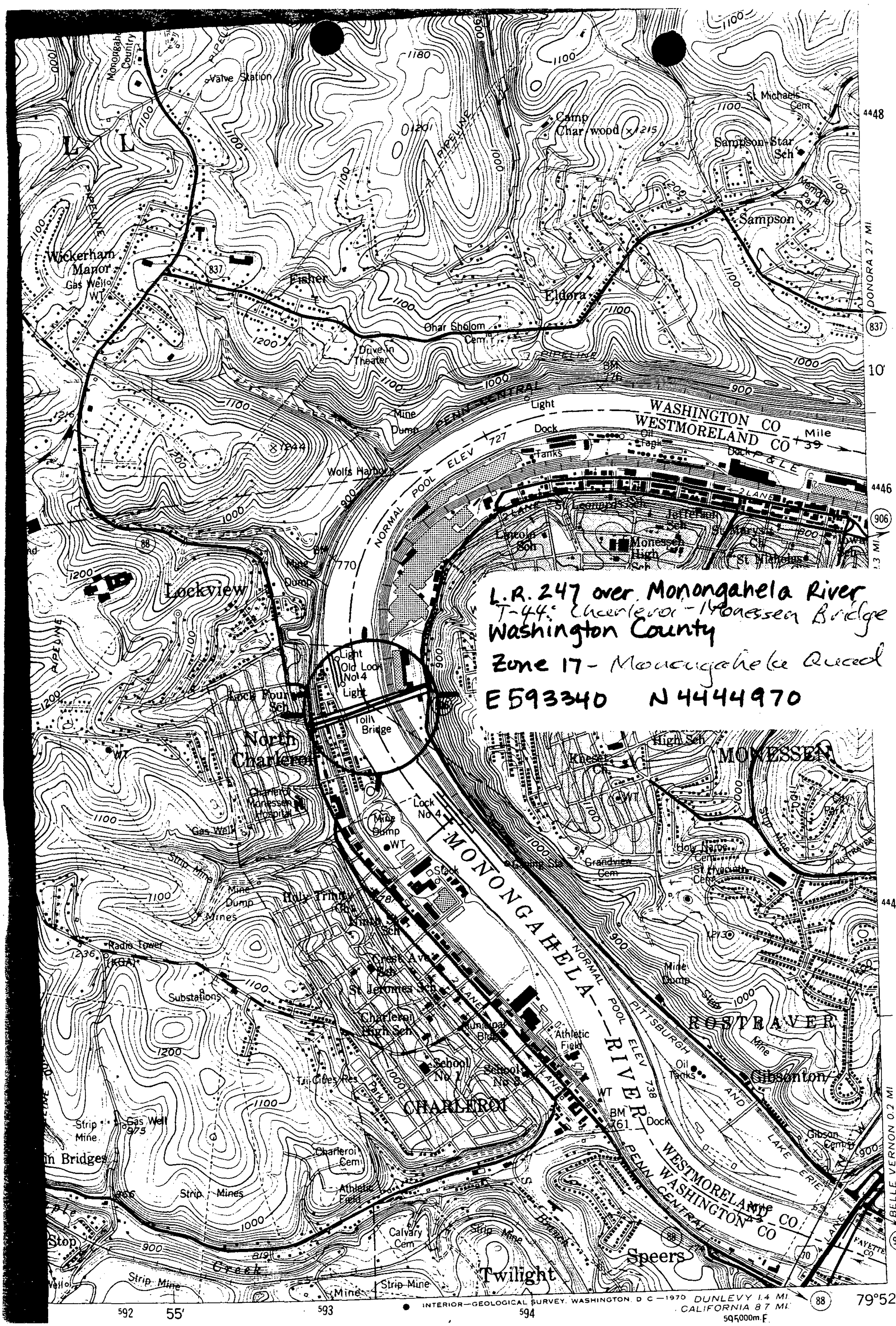
- [ ] other: _____.

16. MATERIALS (primary)

	Superstructure type	treatment/finish	source
main span:	Steel		
towers:			
railings:			
Substructure			
piers:	Coursed Ashlar	Broken Face	
abutments:			
wings:			
intrados/ribs:			
voussiors:			

17. PHOTO NO's.

18. PREPARED BY: J. Over & J. Hudacheck
AGENCY/ORGANIZATION: PA DOT/District 12-0
; DATE: 7/82



Pennsylvania D.O.T. Owned Highway Bridges
Charleroi-Monssen Bridge
T-44