

MOSTY DREWNIANE.

ZESZYT II.

MOSTY KRATOWE I ROZPOROWE.

WYKŁADY

MAKSYMILIANA THULLIEGO,

DYPLOMOWANEGO INŻYNIERA, PROFESORA SZKOŁY POLITECHNICZNEJ WE LWOWIE.



B. ATLAS.

Cena za tekst i atlas 5 zł.

LWOW, 1898.

SKŁAD GŁÓWNY U KAZIMIERZA JAKUBOWSKIEGO WE LWOWIE.

I. ZWIĄZKOWA DRUKBRNIA WE LWOWIE.

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| " 17. Most Howe'a na rzece Emmie w Szwajcaryi. | " 58. i 59. Most kratowy Howe'a o pomoście do- |
| " 18. Most Howe'a kolei południowej. | łem a rozpięt. 15 m. |
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| dniowej austriackiej. | a rozpiętości 30 m. |
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| " 25. Most tymczasowej kolei berlińskiej obwo- | " 69. i 70. Normalia kolei arc. Albrechta. Most |
| dowej. | rozporowy. |
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| górami. | " 74. i 75. Typy mostów drewnianych w kanto- |
| " 29. i 30. Most drogowy Rychtera o pomoście | nie Berneńskim. |
| dołem. | " 76. i 77. Rozpornice trapezowe. |
| " 31. i 32. Most na Strypie pod Buczaczem układu | " 78. i 79. Rozpornica wielokrotna. |
| Pintowskiego. | " 80. Rozpornica trapezowa. |
| " 33. i 34. Most na Strypie pod Buczaczem układu | " 81. i 82. Rozpornice i wieszary. |
| Pintowskiego. | " 83. i 84. Mosty rozporowe. |
| " 35. i 36. Most na Sanie w Przemyśle. | " 85. i 86. Most na Sanie w Przemyśle. |
| " 37. Mosty amerykańskie. | " 87. Obliczenie rozpornicy trapezowej. |
| " 38. Szczegóły. | " 88. Obliczenie wykreślne rozpornic. |
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| waryi. | " 93. i 94. Mosty tymczasowe. |

Biblioteka Politechniki Krakowskiej



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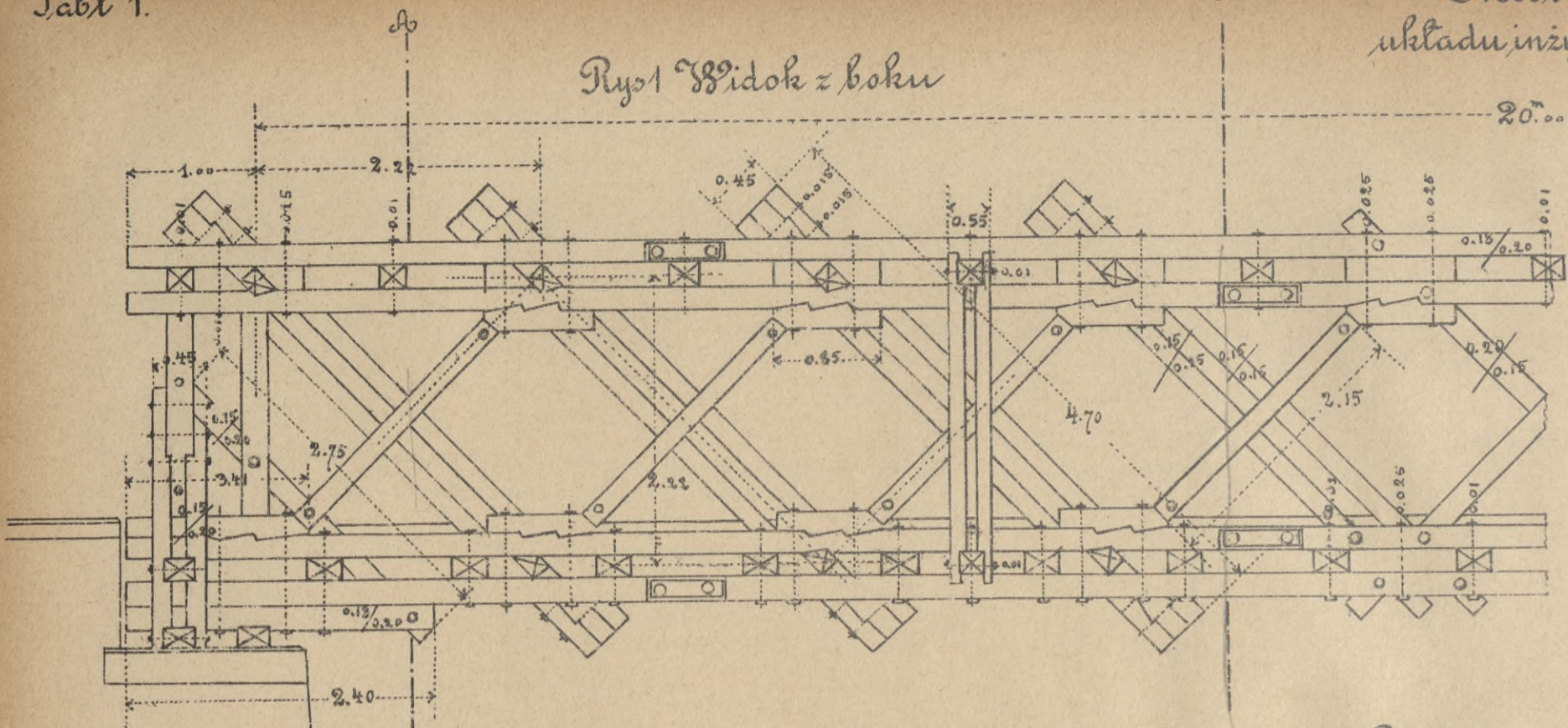


IV - 200753

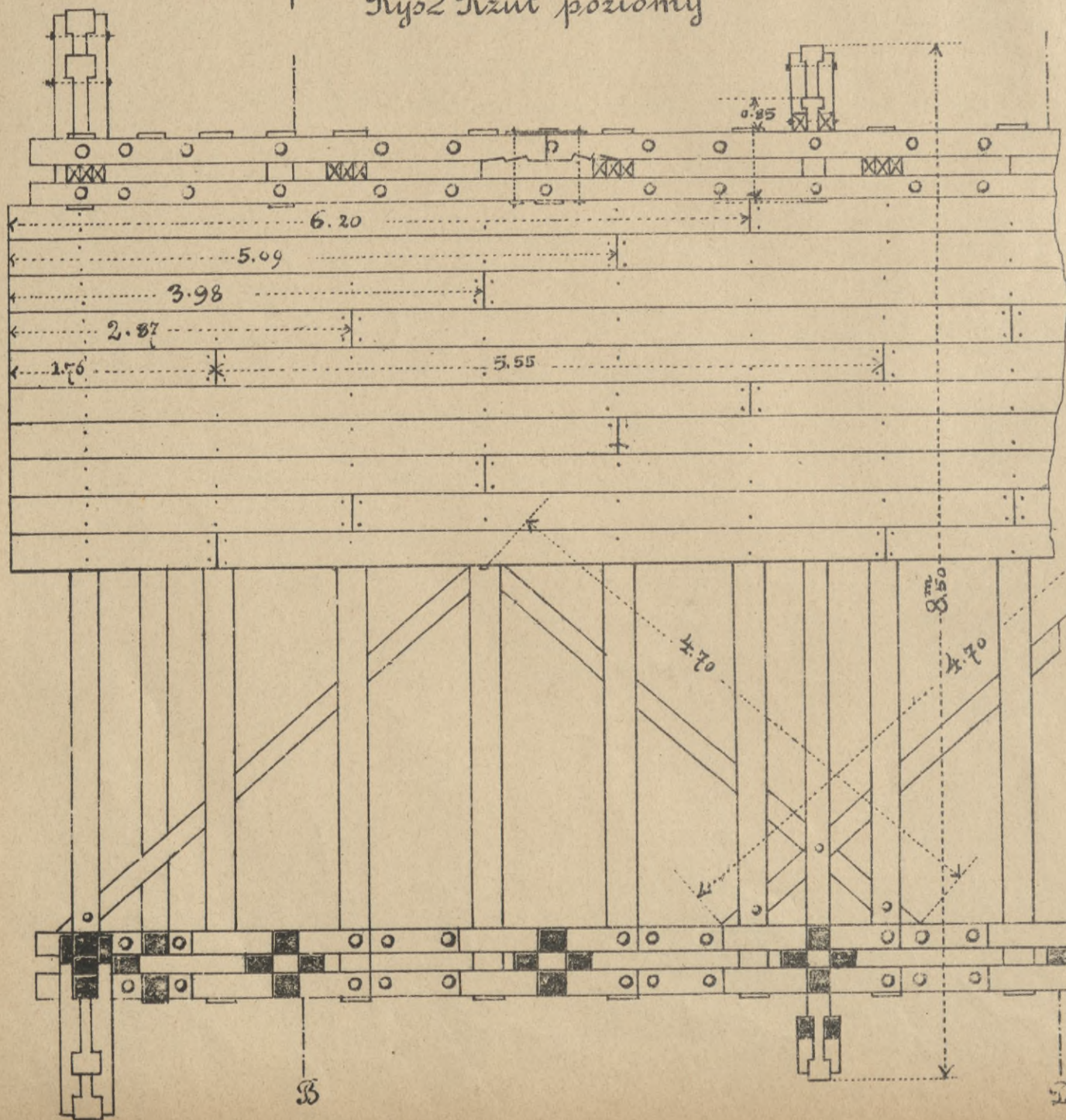
5-182/2013

Most kratowy
układu inżyniera Ibjanokiego

Rys1 Widok z boku

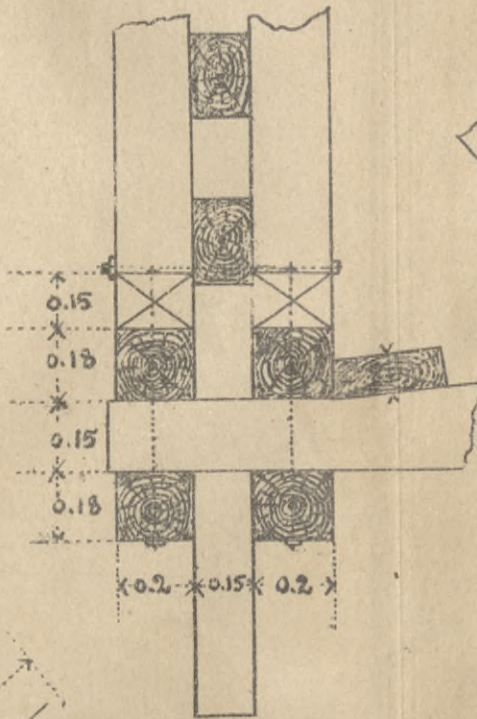


Rys2 Rzut poziomy

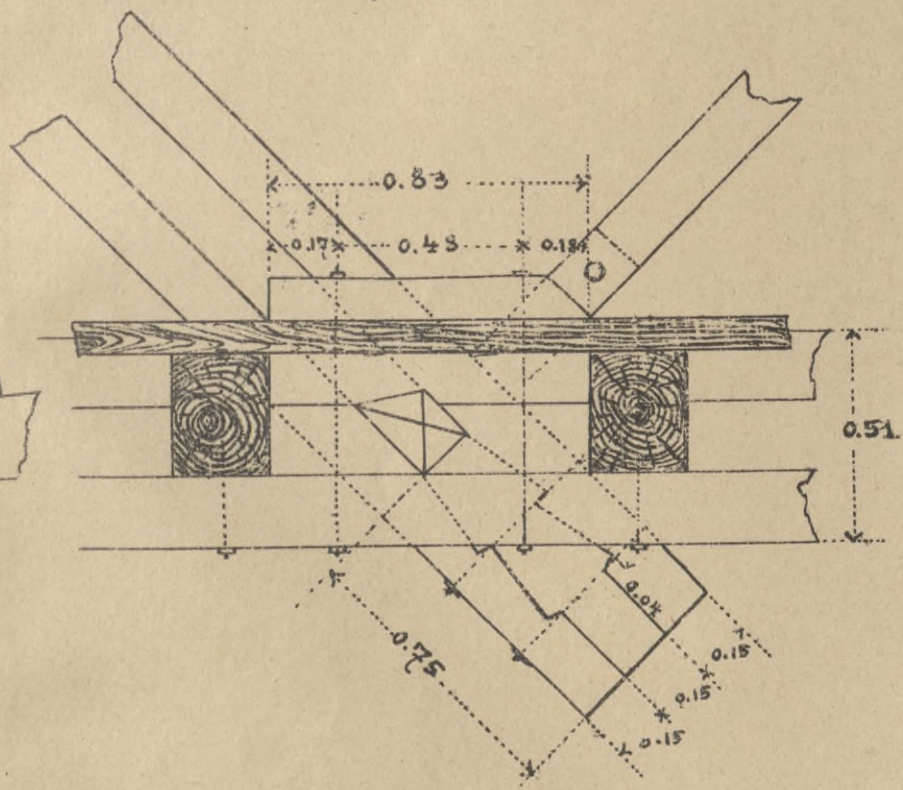


Wzrost

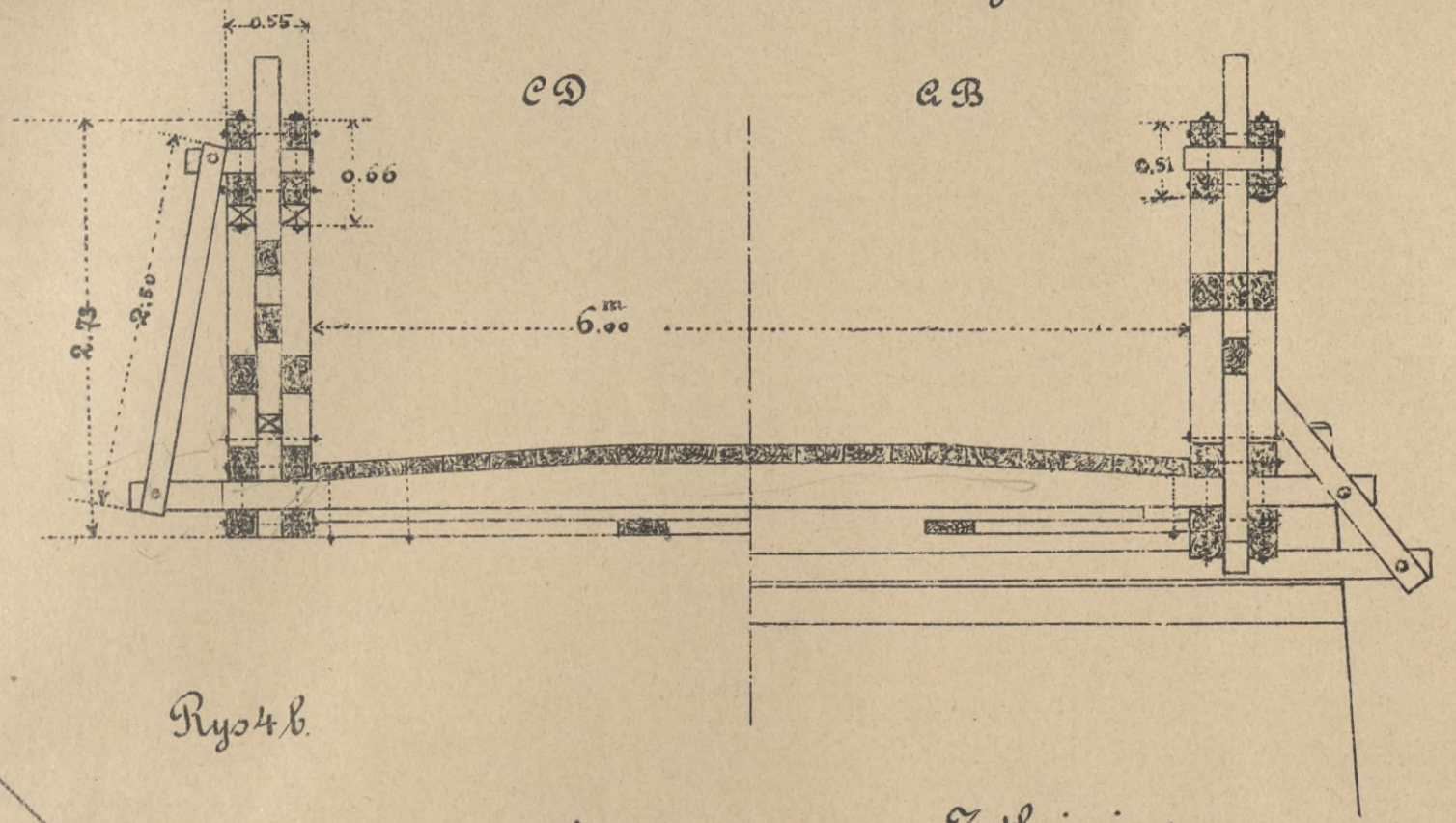
Rys4.a



Rys4.b

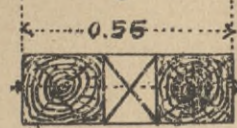


Rys3. Przekrój poprzeczny

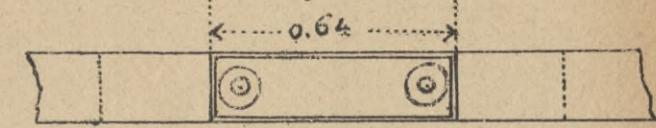


Zetknięcie pasu

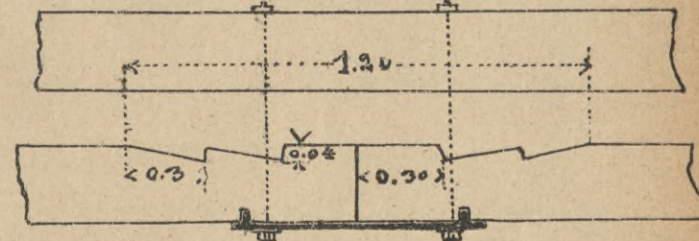
Rys5.a



Rys5.b

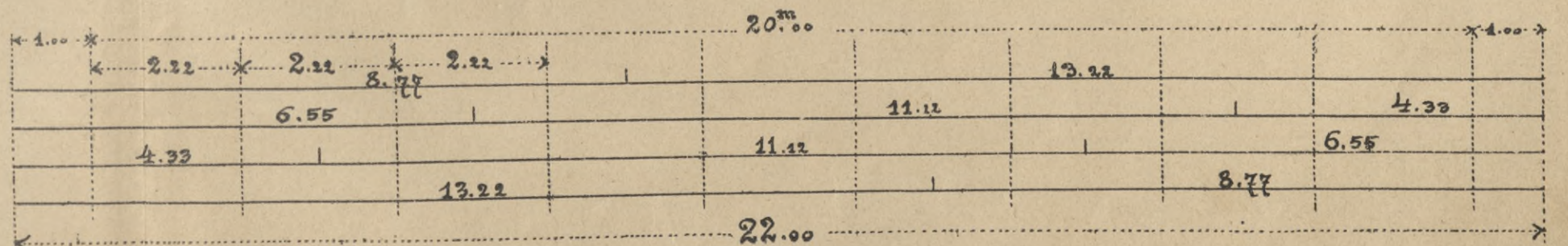


Rys5.c



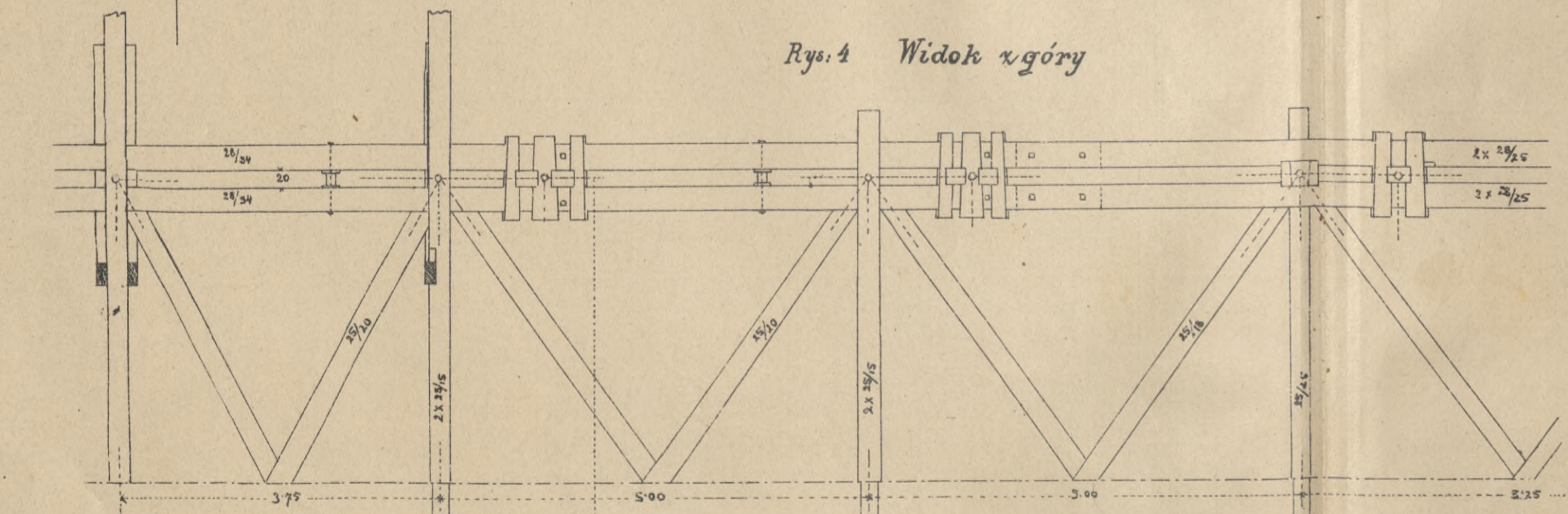
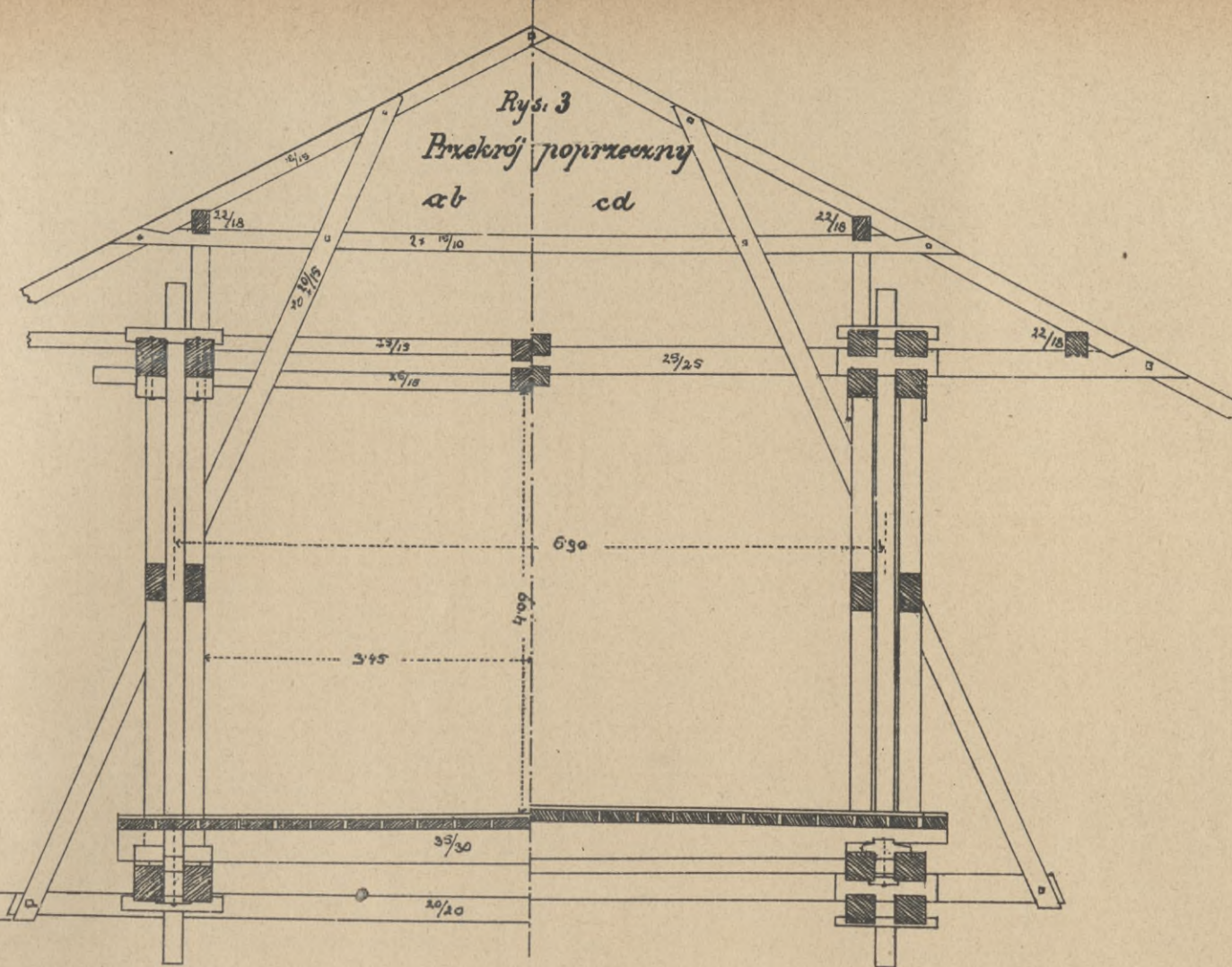
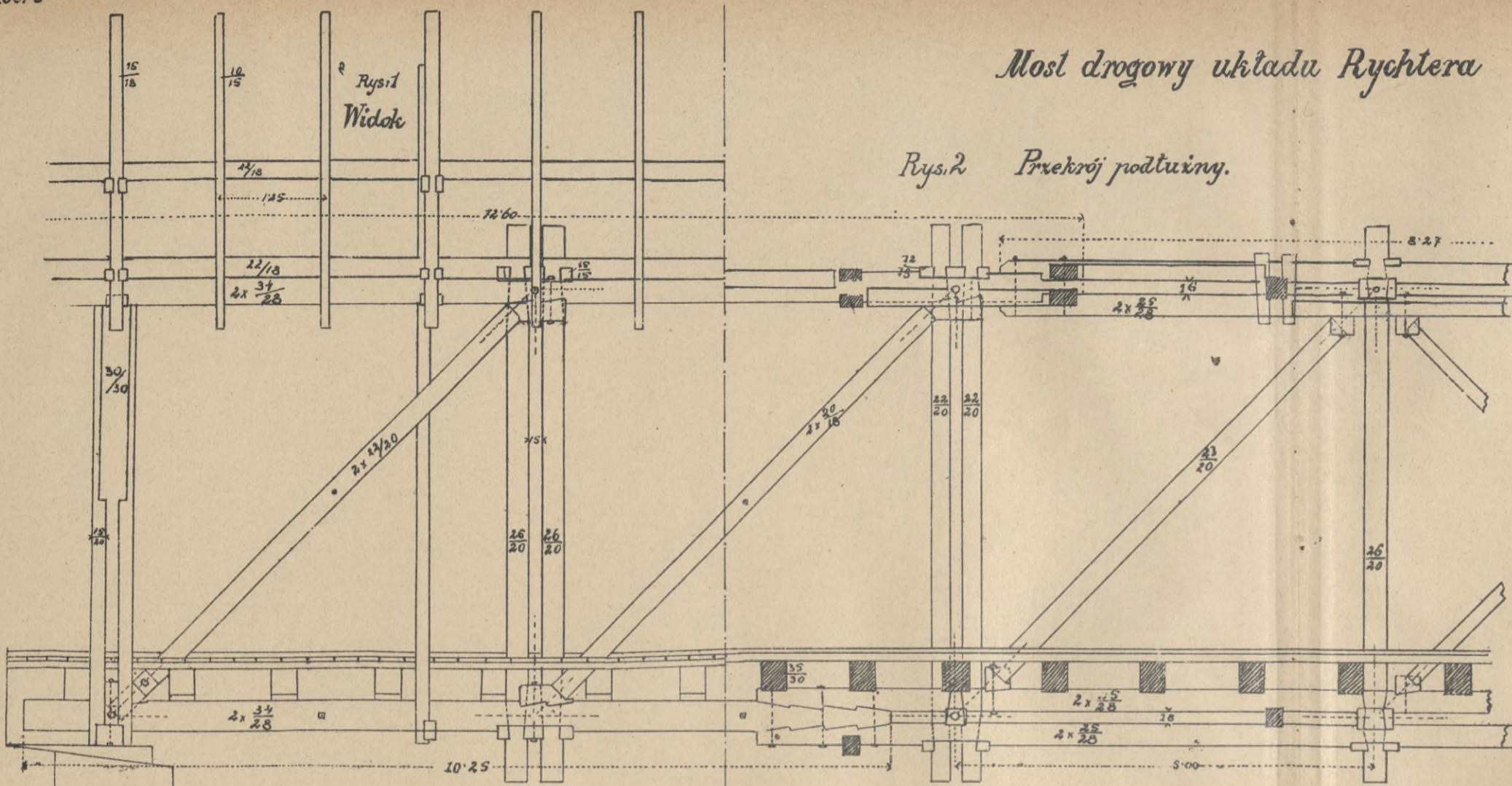
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Rys6. Rozkład zetknięć w pasach

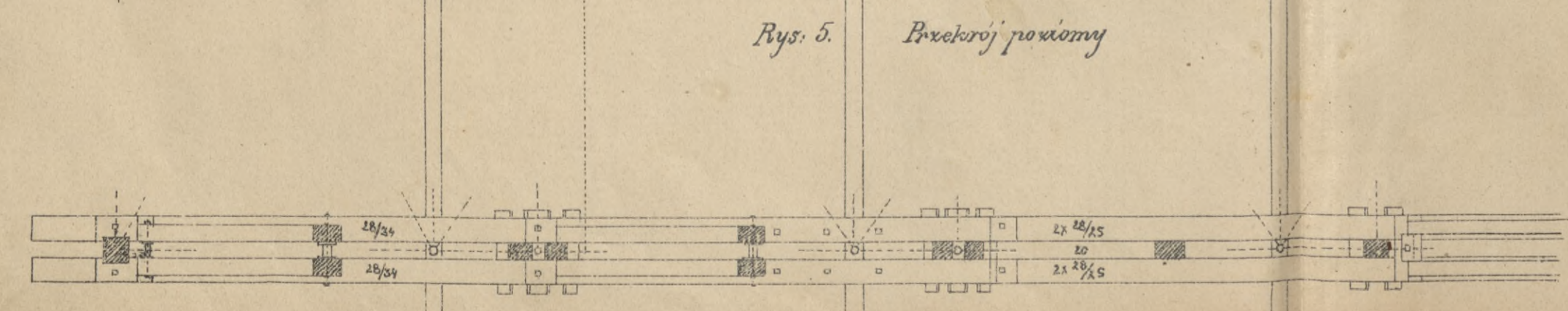
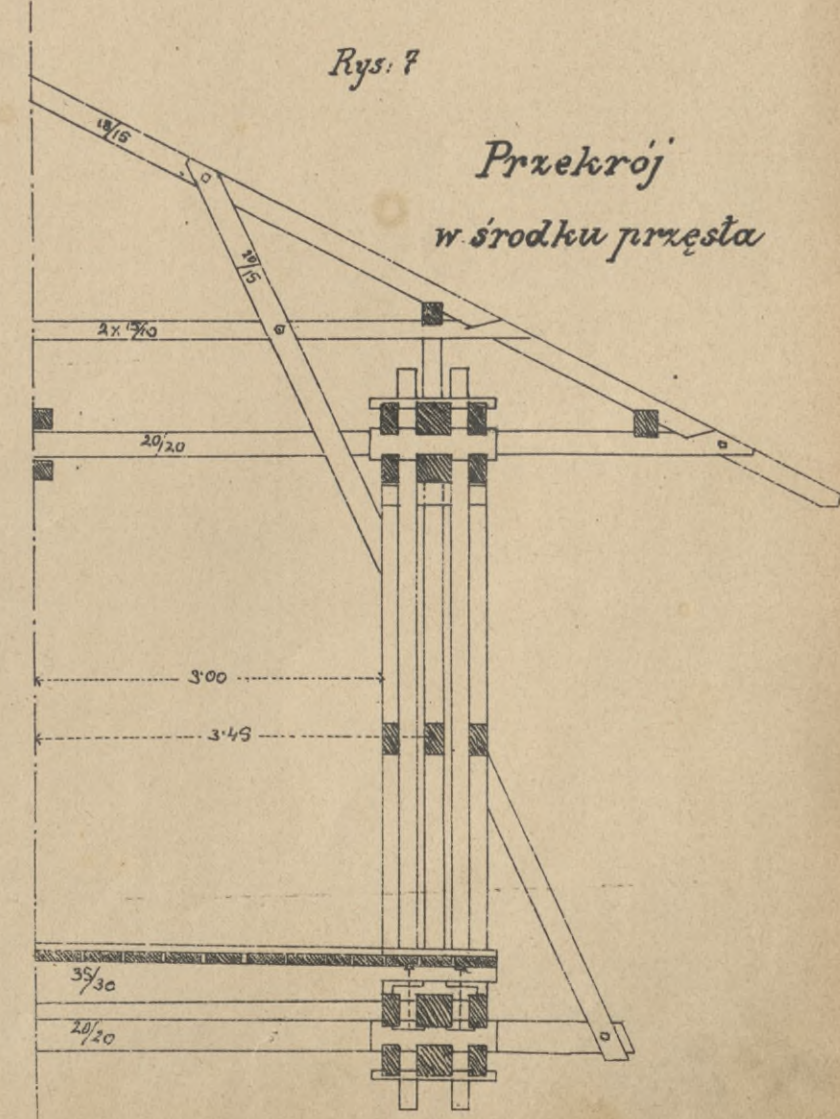
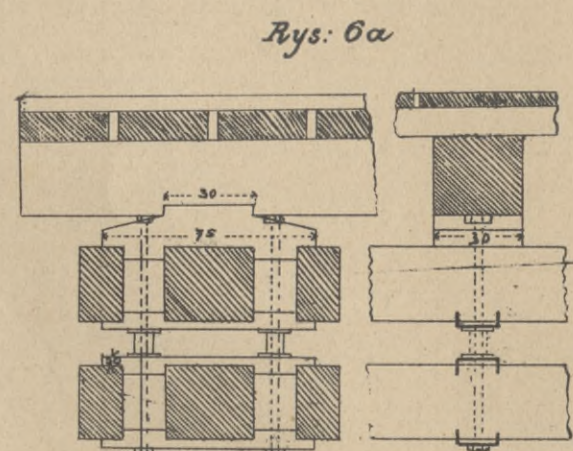


Podziałka 1:50

Most drogowy układu Rychtera

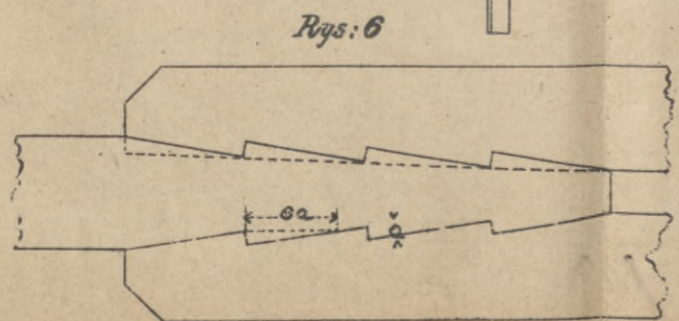
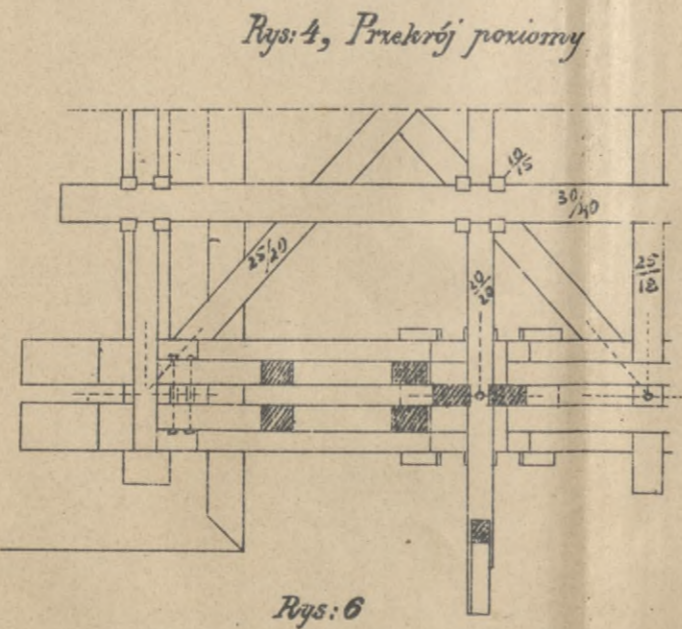
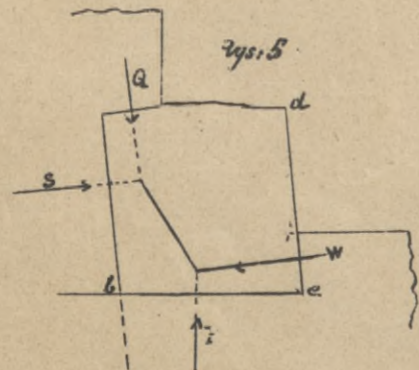
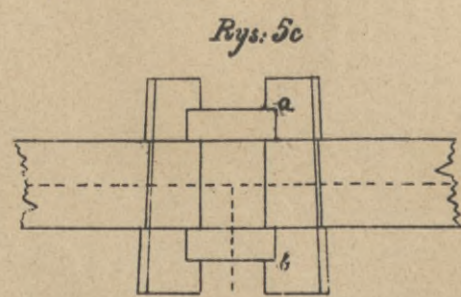
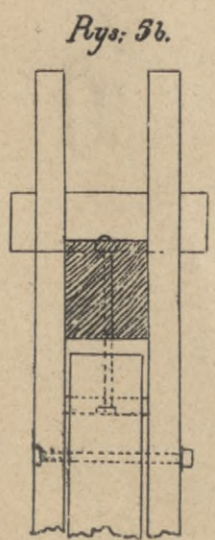
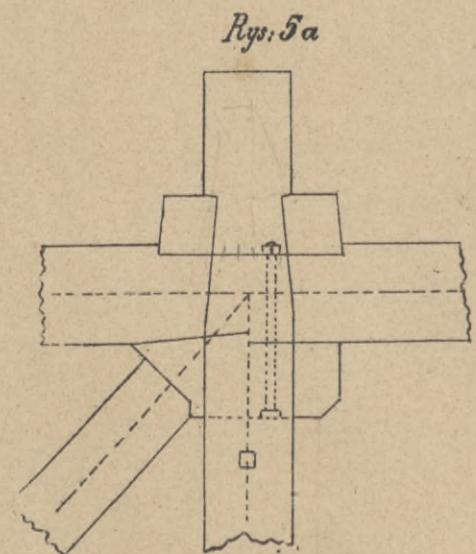
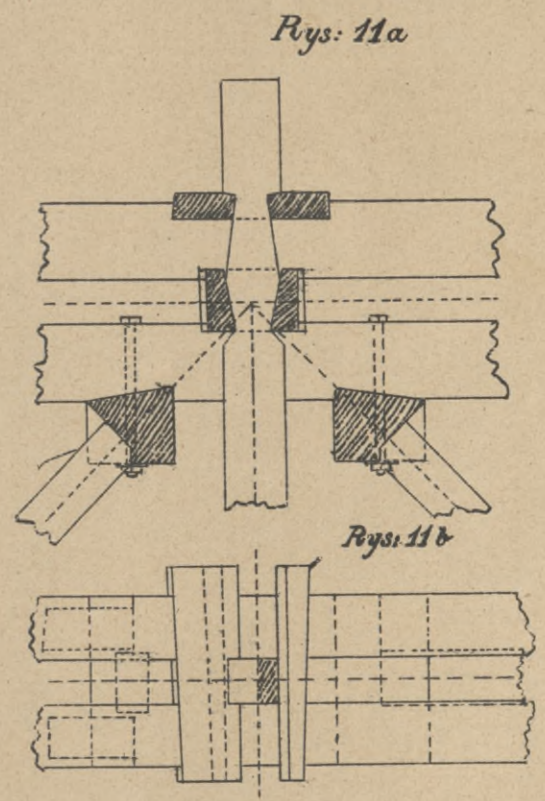
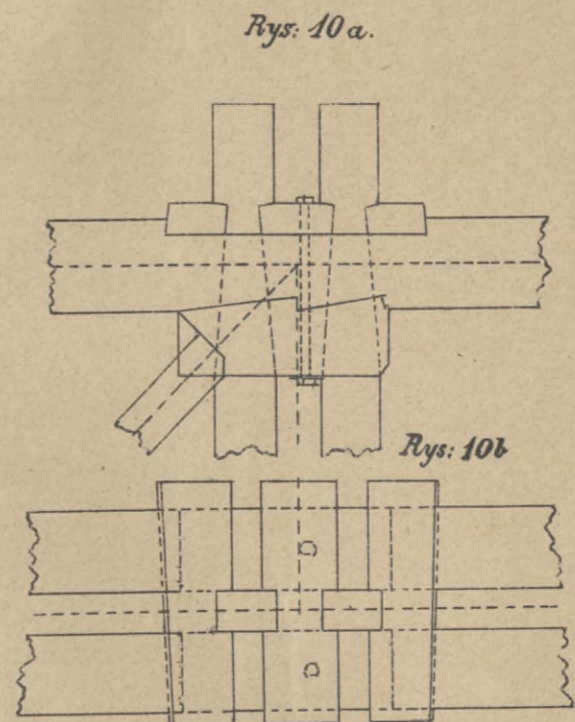
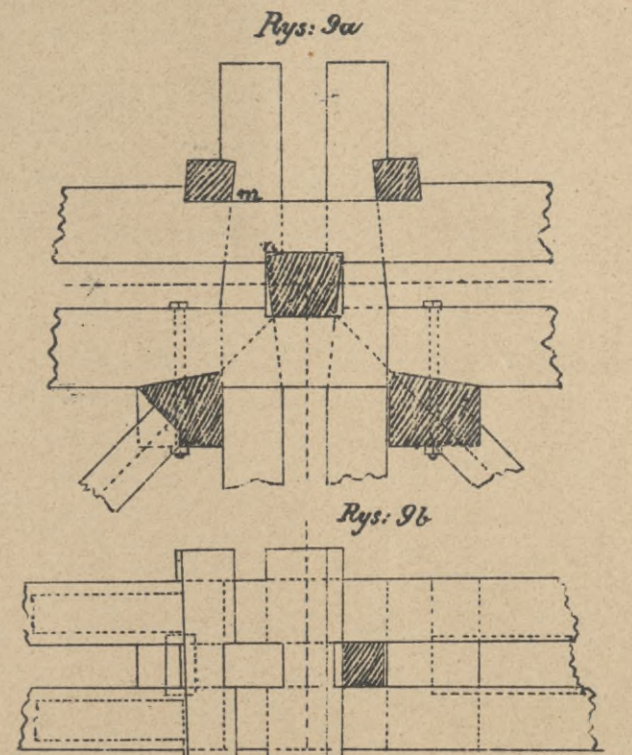
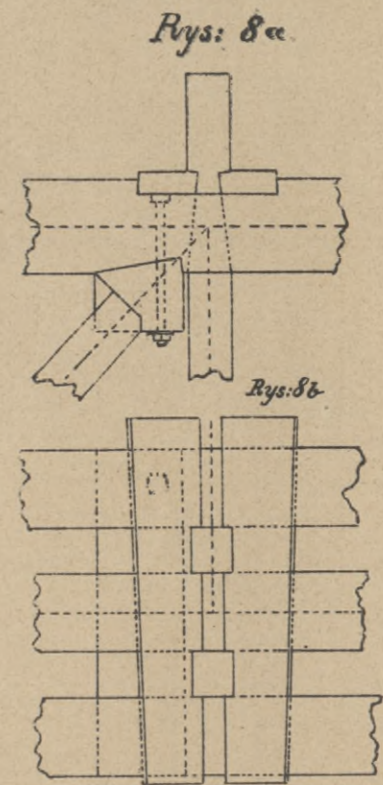
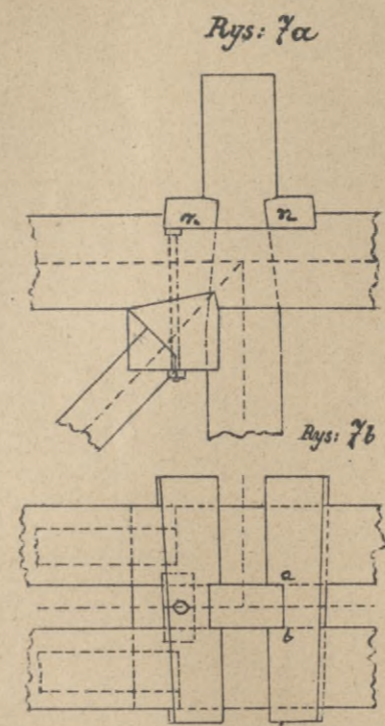
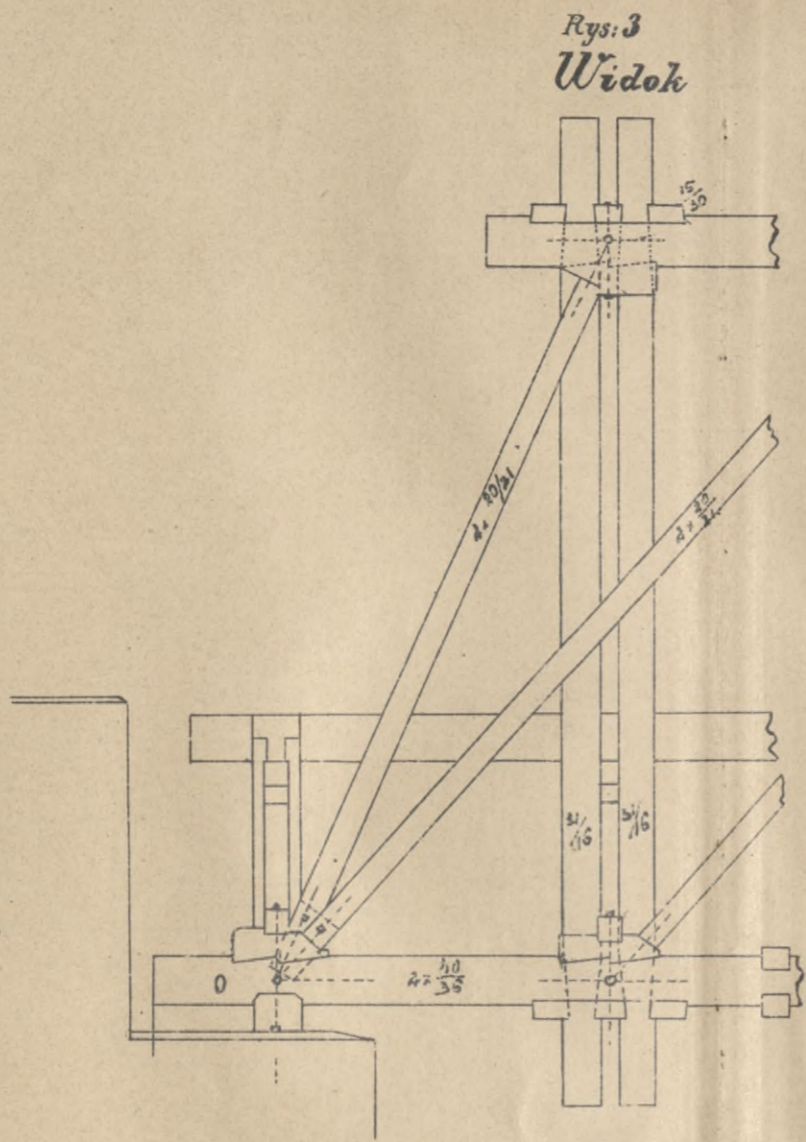
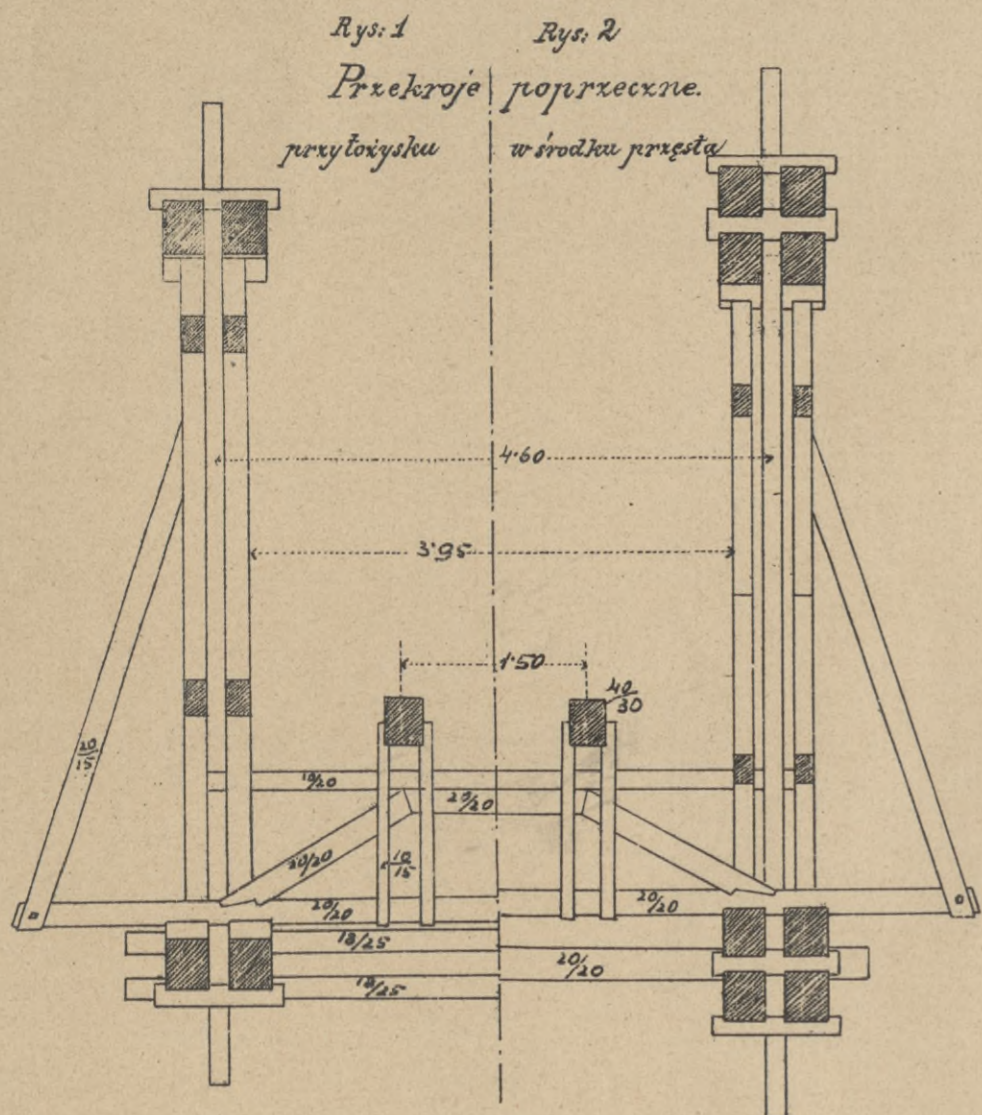


Łożyska poprzeczne

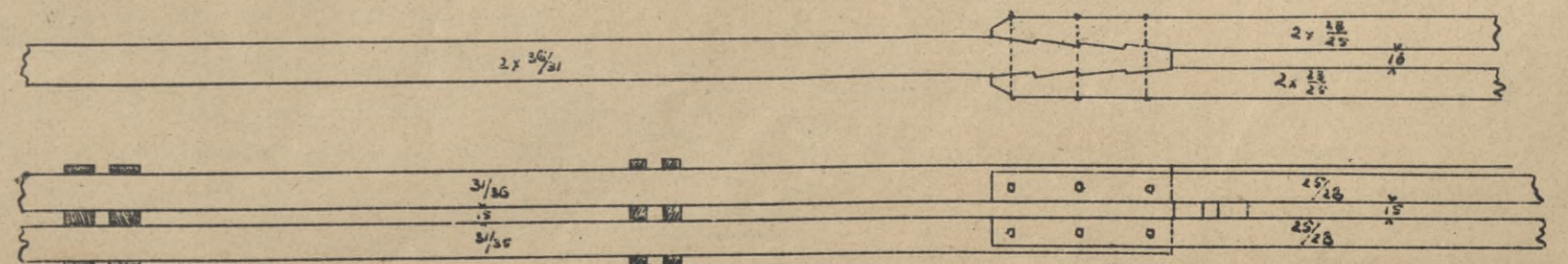


Podziałka: 1cm / 0.8m

Most kolejowy układu Rychtera.



Rys. 12
Połączenia pasu

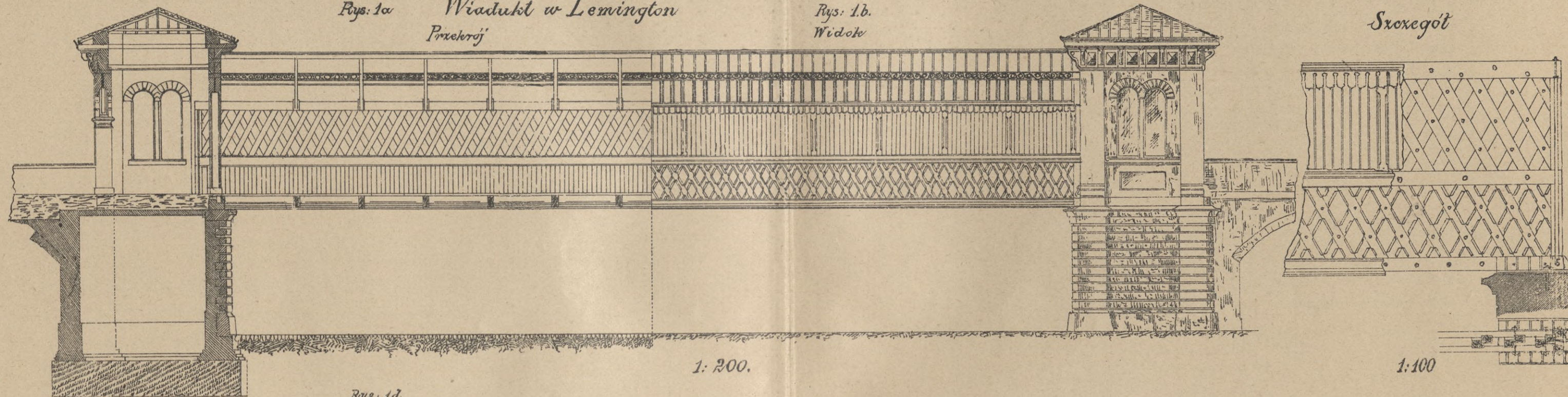


Rys. 1a Wiadukt w Lemington
Przekrój

Rys. 1b.
Widok

Rys. 1c

Szeregót

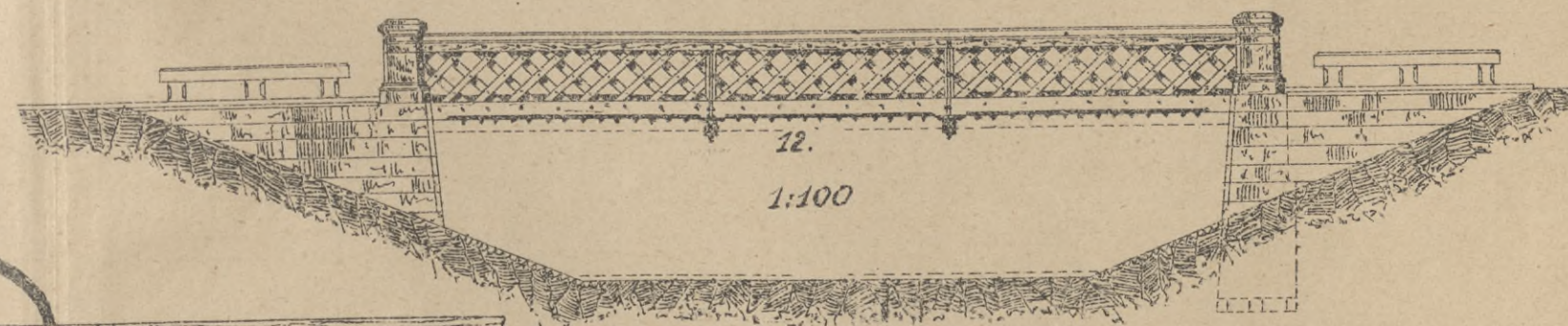
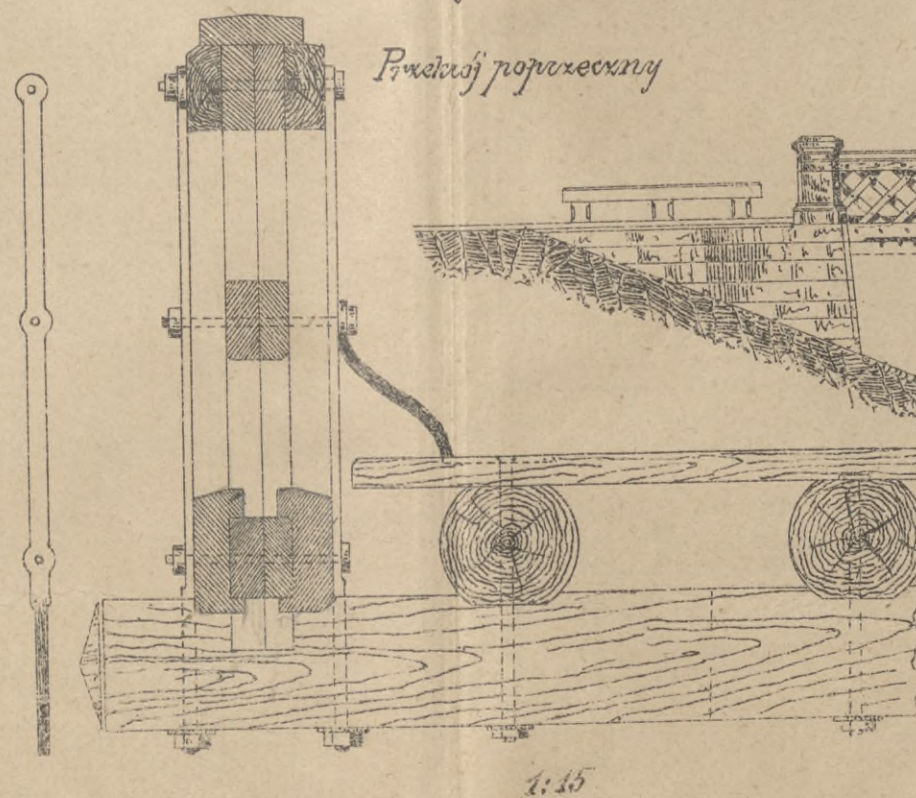
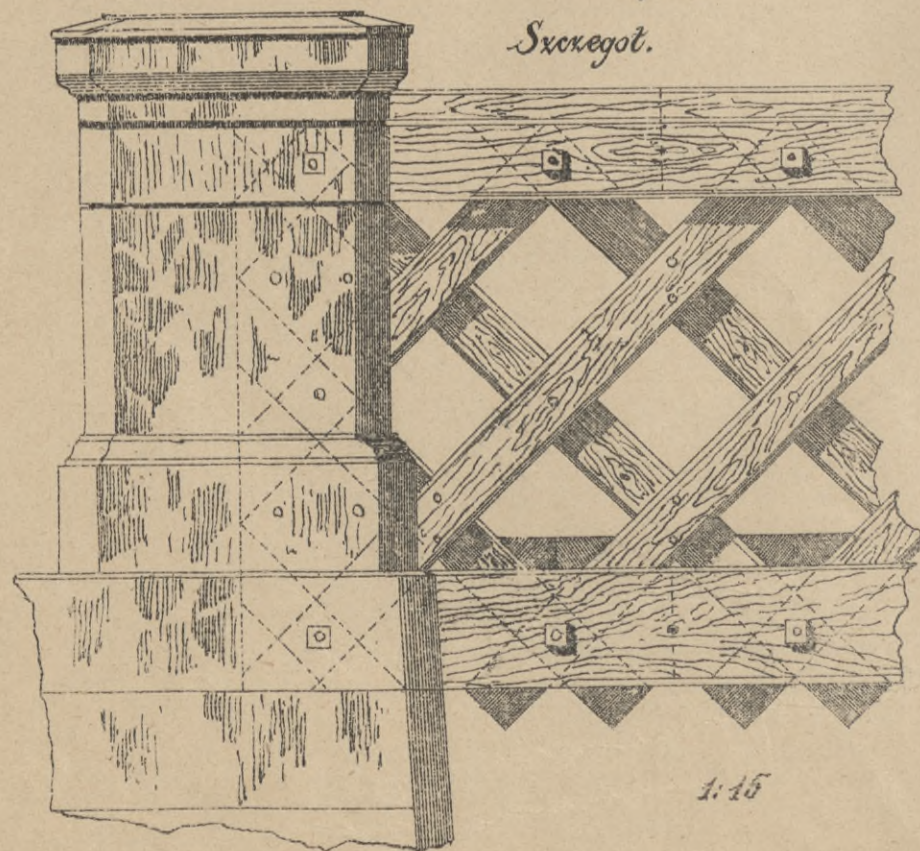


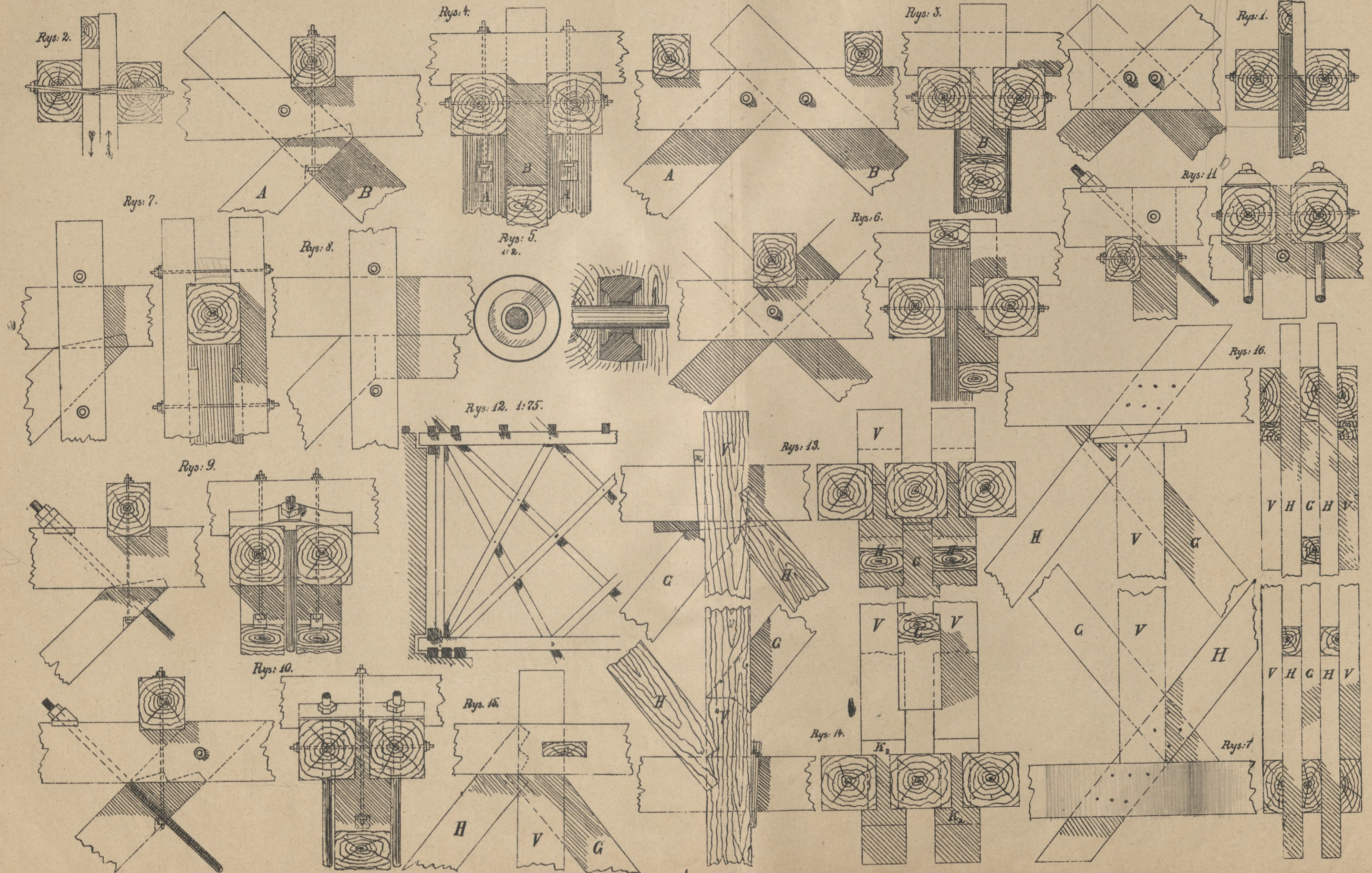
Rys. 1d
Szeregót

Rys. 1e

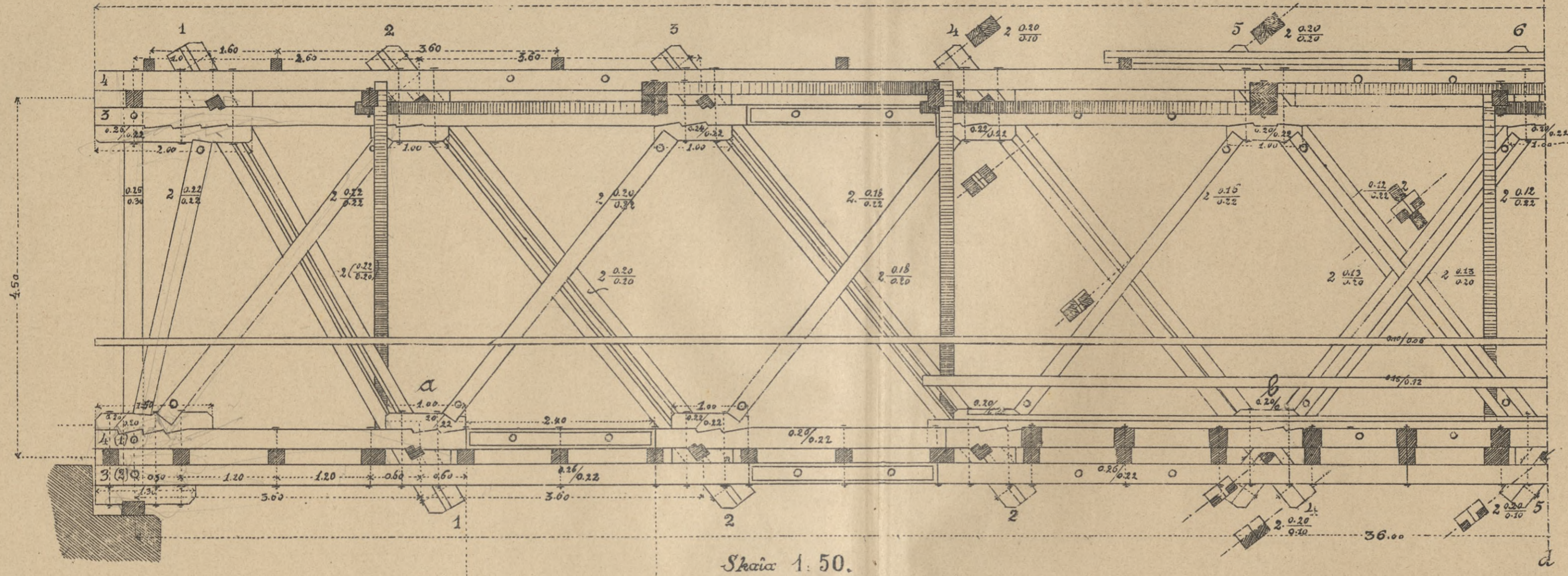
Przekrój poprzeczny

Most w Unter-Beuern (Badenskie)



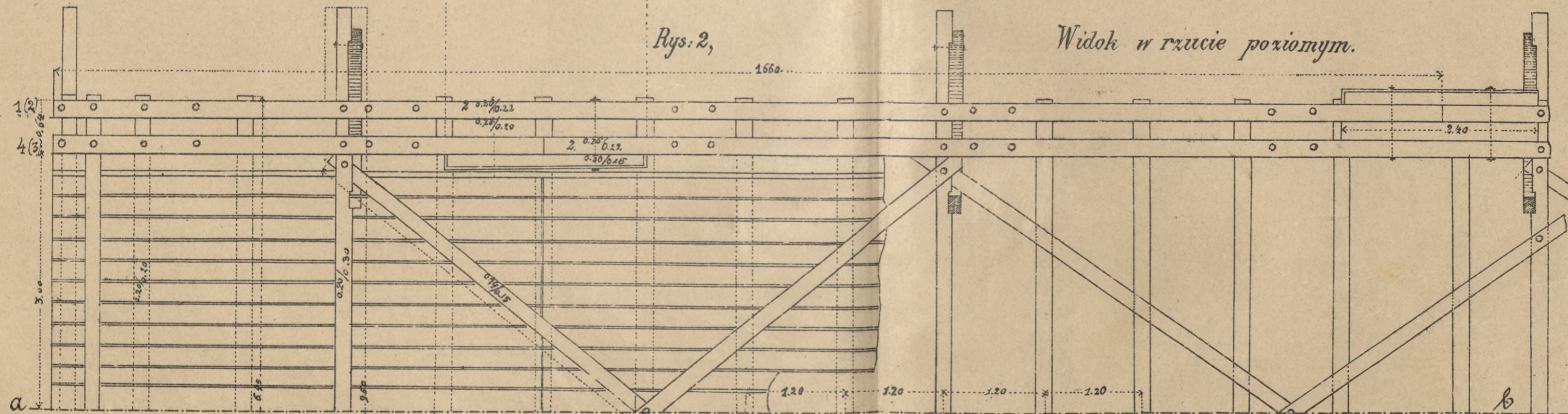


Rys. 1, Przekrój a-b i widok.



Rys. 2,

Widok w rzucie poziomym.

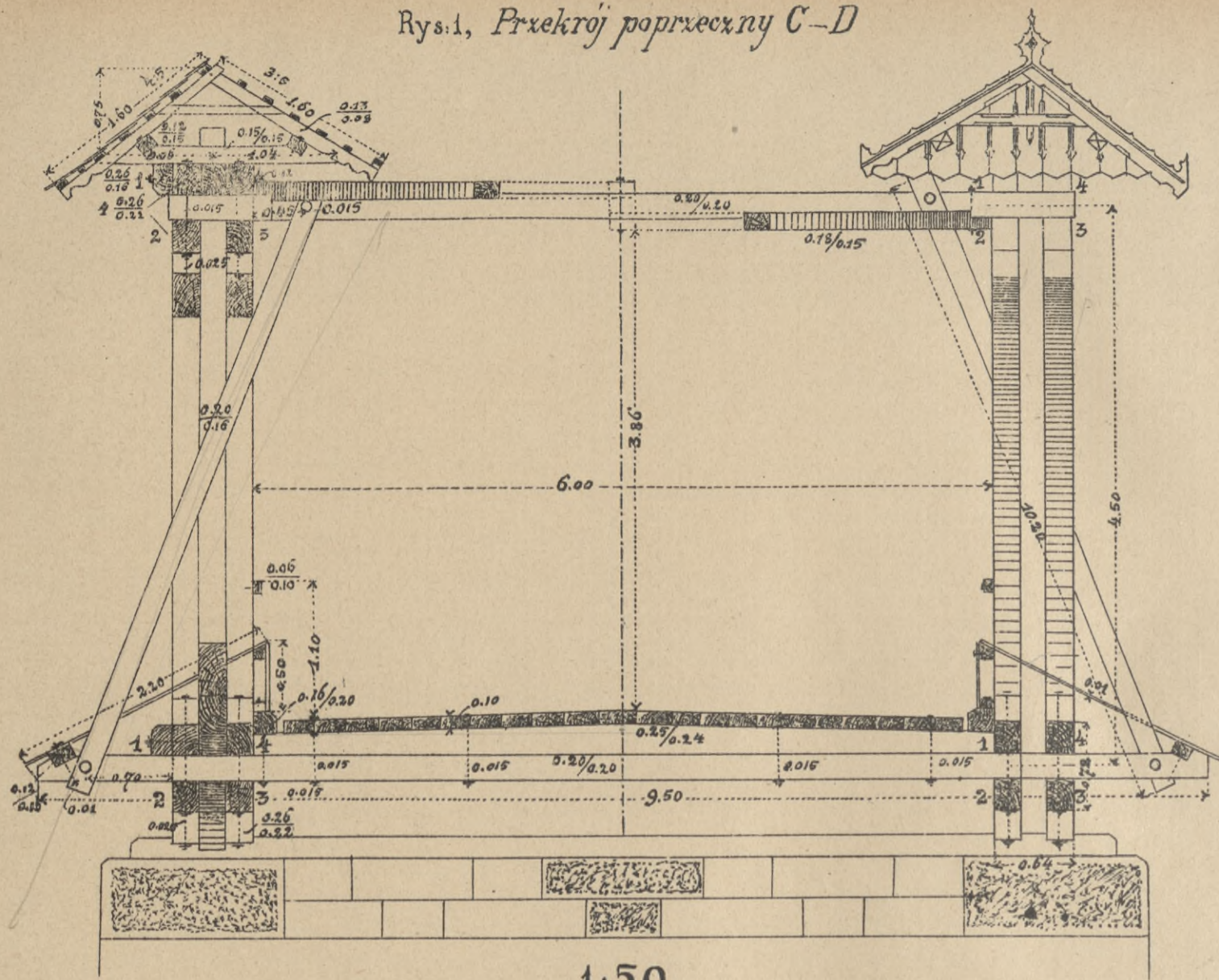


Rozkład belek w pasach

16.70			16.70, 14.40		14.40, 5.90	5.90
13.10			13.10, 14.40		14.40, 9.50	9.50
9.50		9.50, 14.40			14.40, 13.10	13.10
5.90	5.90, 14.40			14.40, 16.70		16.70

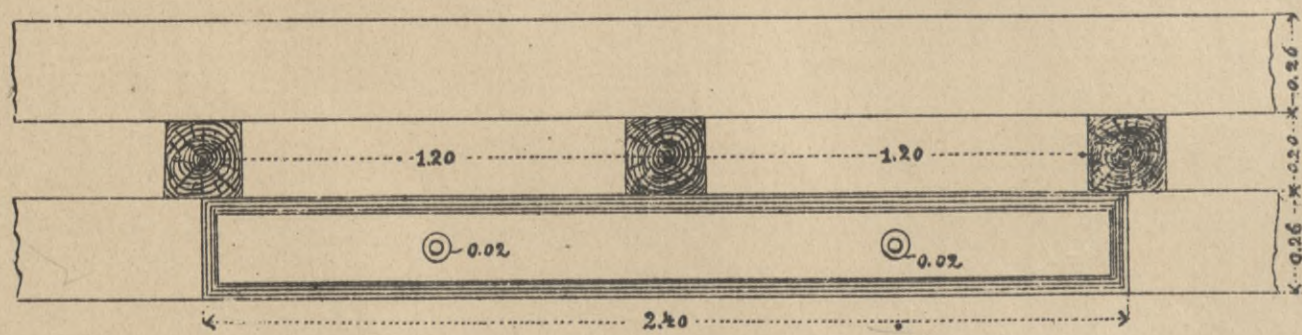
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Rys. 1, Przekrój poprzeczny C-D

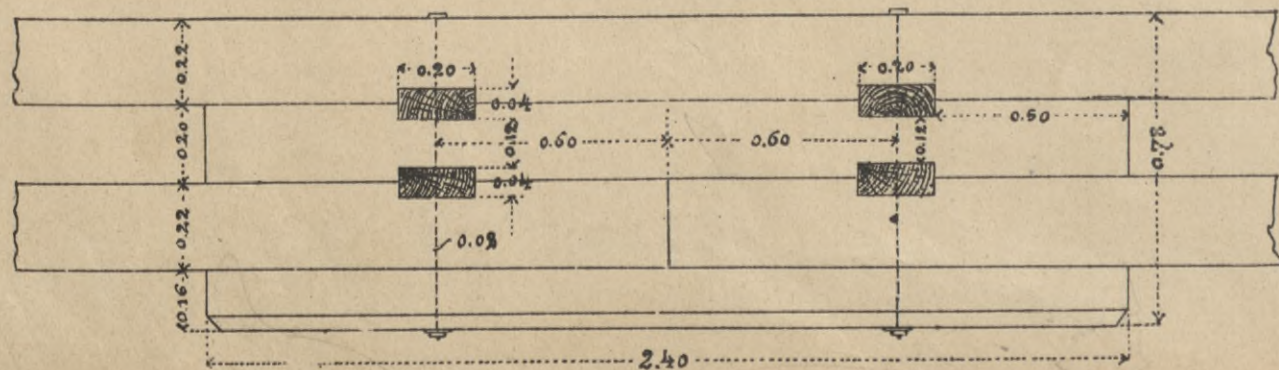


1:50

Rys. 2a.

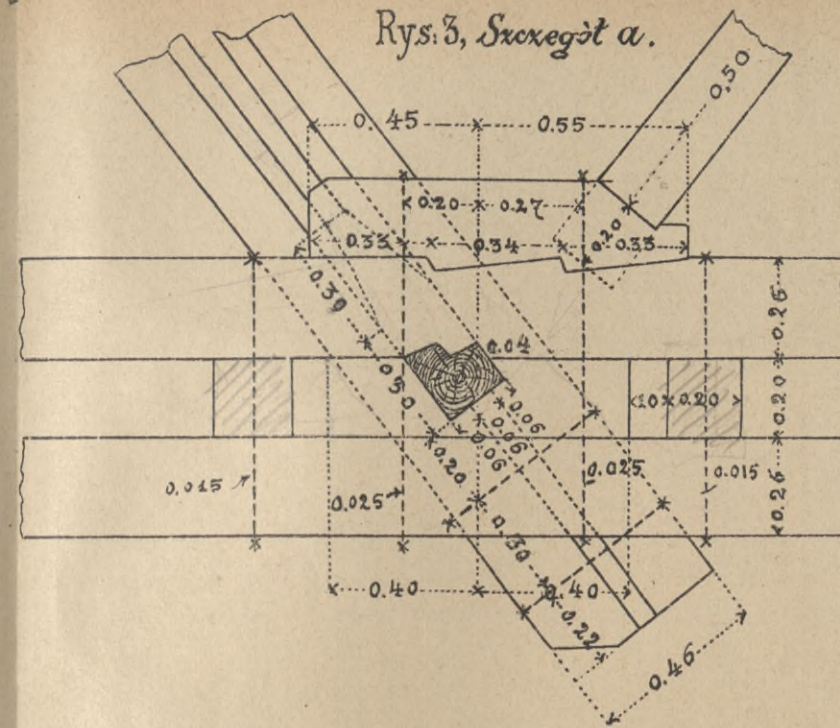


Rys. 2b. Sposób połączenia belek pasowych.



1:20

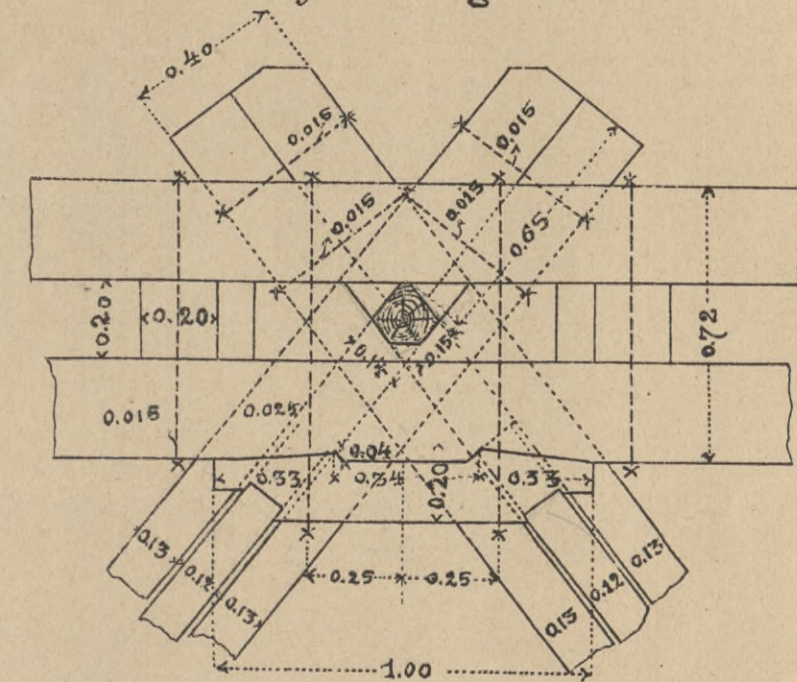
Rys. 3, Szczegół a.



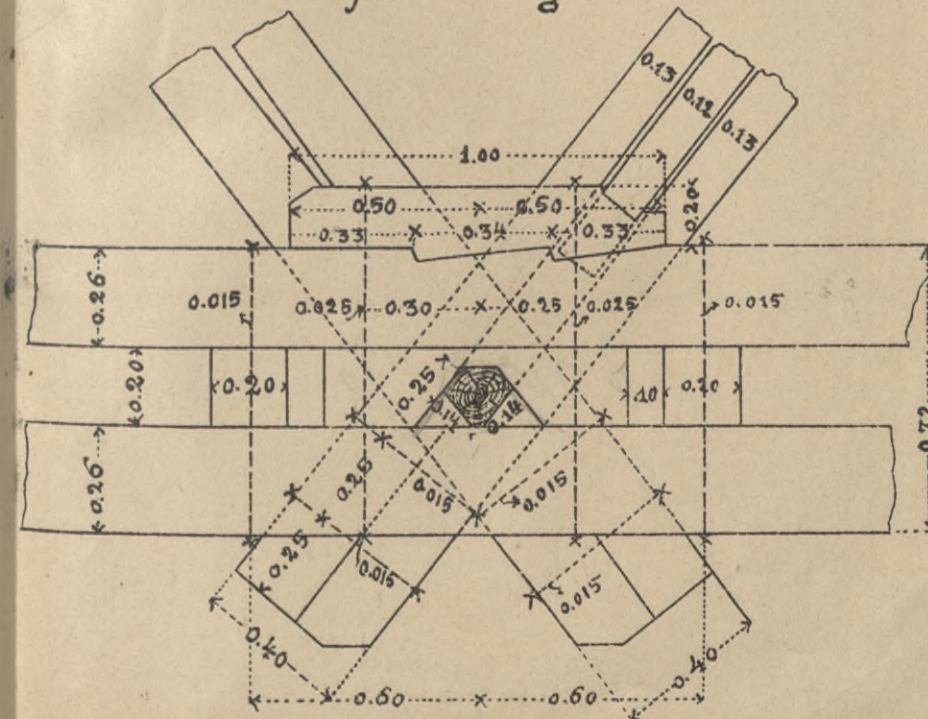
Szczegóły.

Skala 1:20.

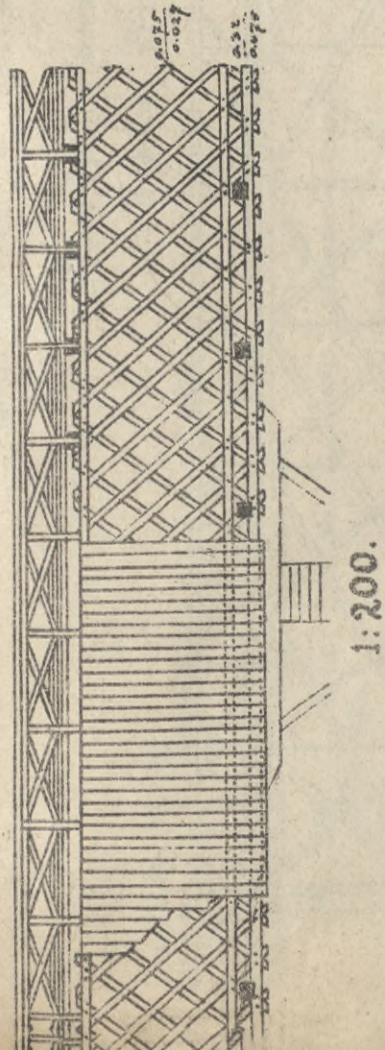
Rys. 4, Szczegół c.



Rys. 5, Szczegół b.

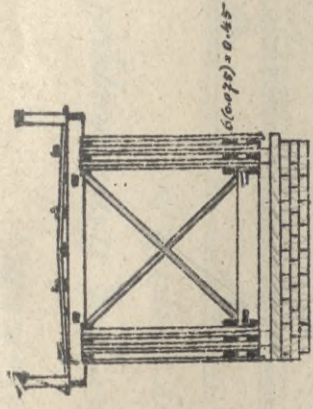


Rys. 1a. Most systemu Towna.



1:200.

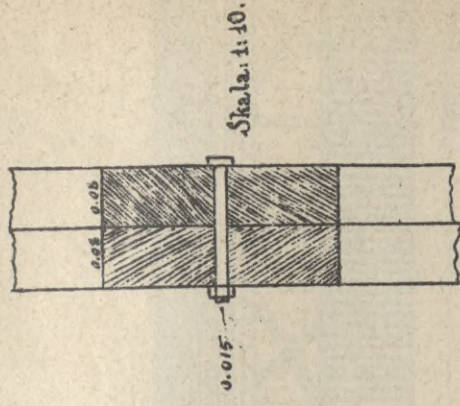
Mosty amerykańskie.



1:200.

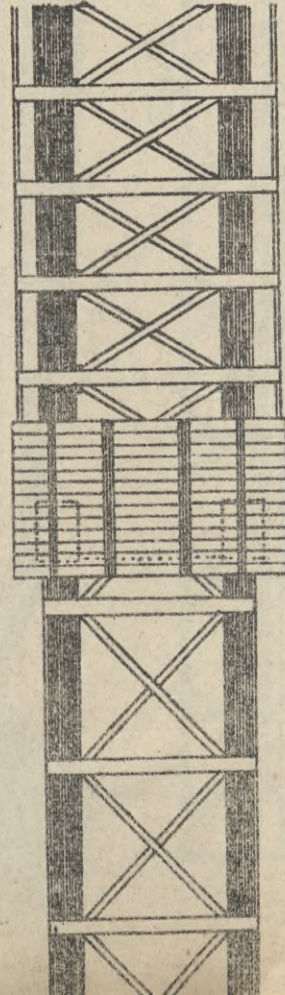
Rys. 3c. Tab 15

Szwajcyr polaczenia.



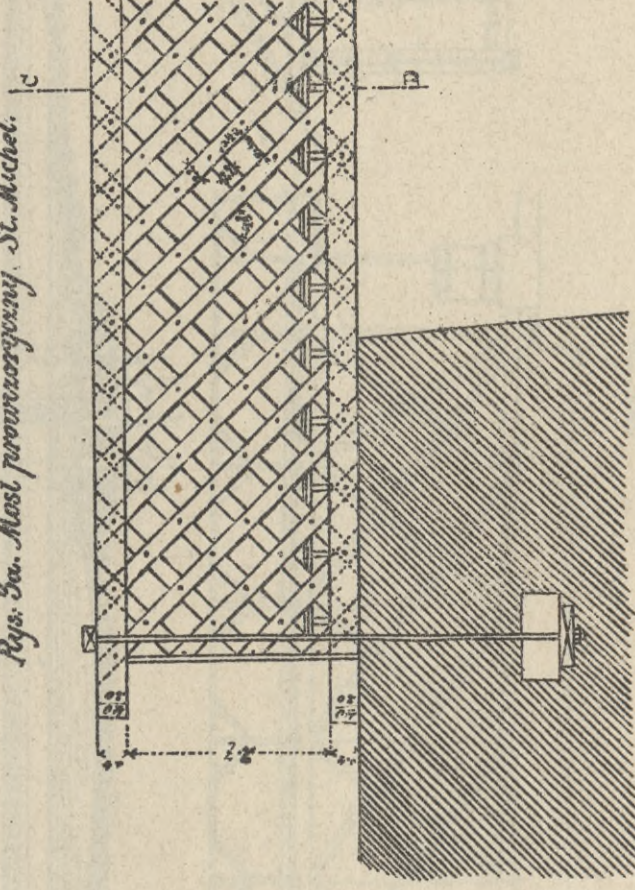
Skala. 1:10.

Rys. 1 b.



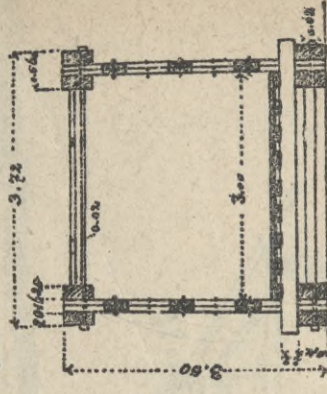
1:200

Rys. 3a. Most przewieszonyy St. Michel.



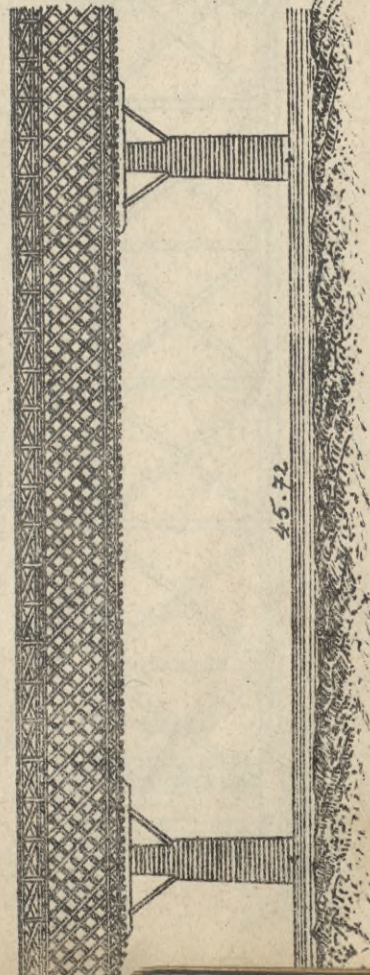
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Rys. 3b, Przekroj C-D.



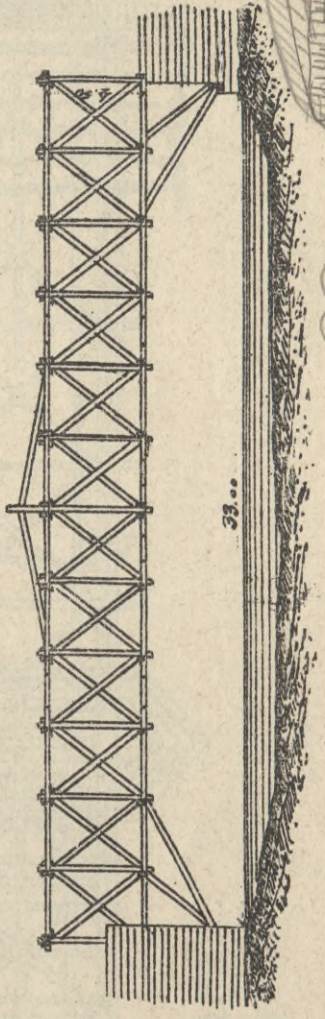
Rys. 2. Most w Richmond.

1:500,

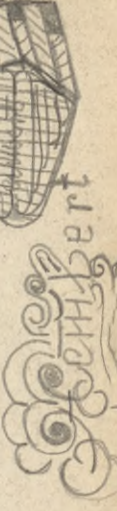


45.72

Rys. 4. Most ukladu Longa. 1:300.

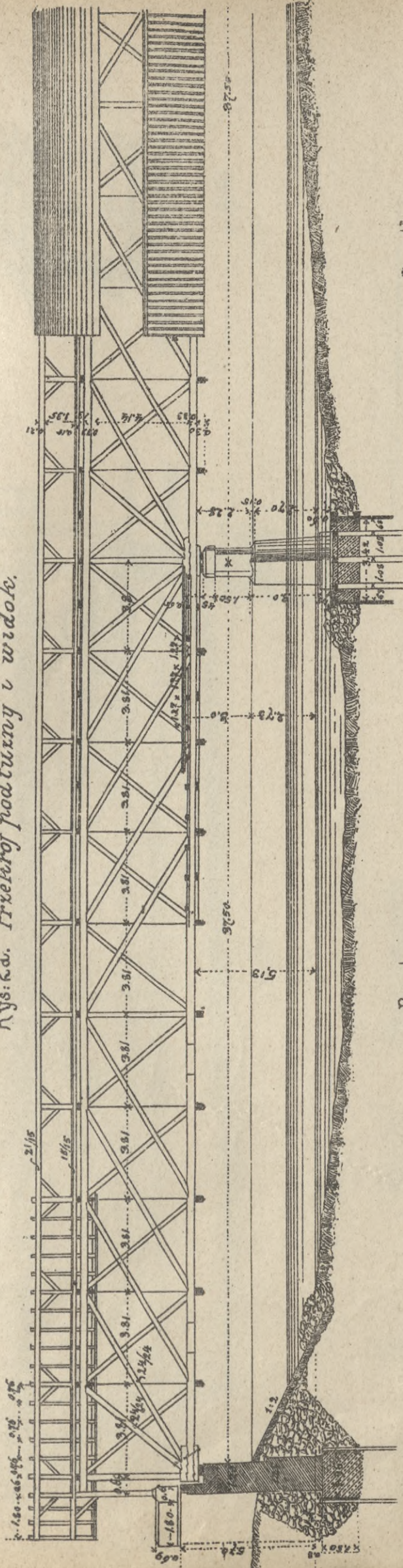


33.00

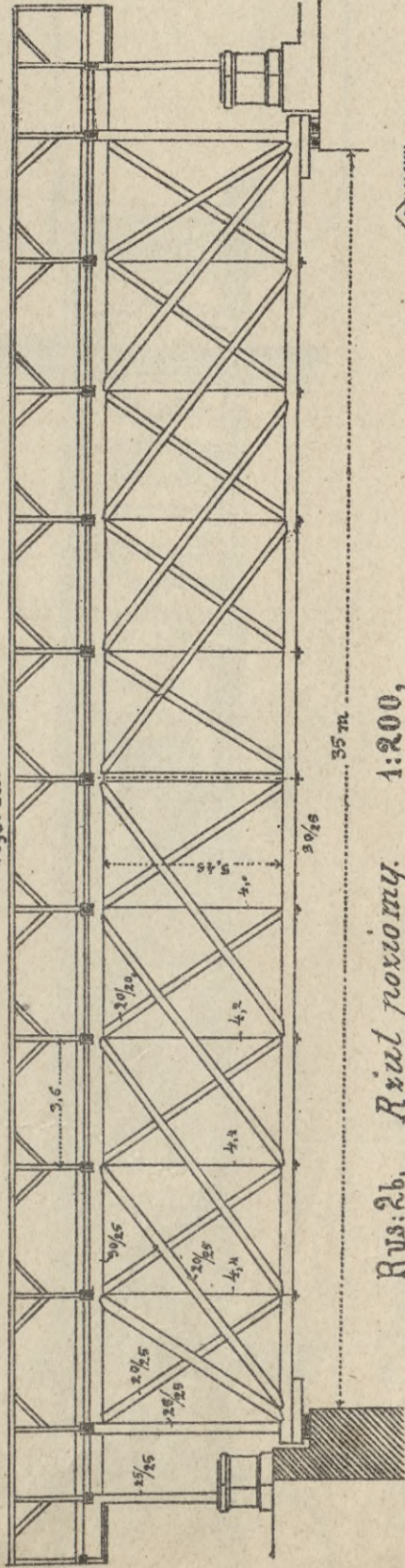


Most syst. Howe'a na rzece Aar pod Hinterkappeln.

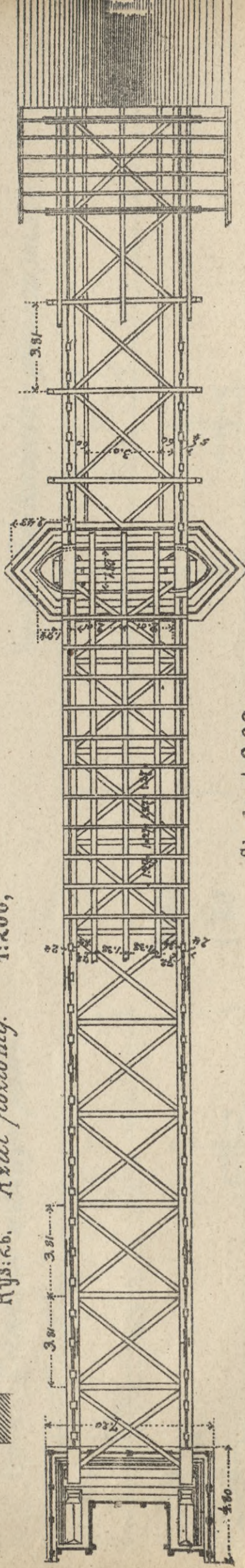
Rys. 2a. Przekroj podkowy i widok.



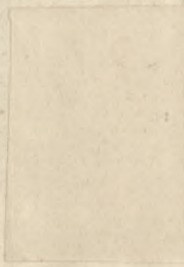
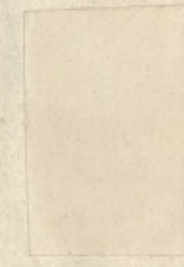
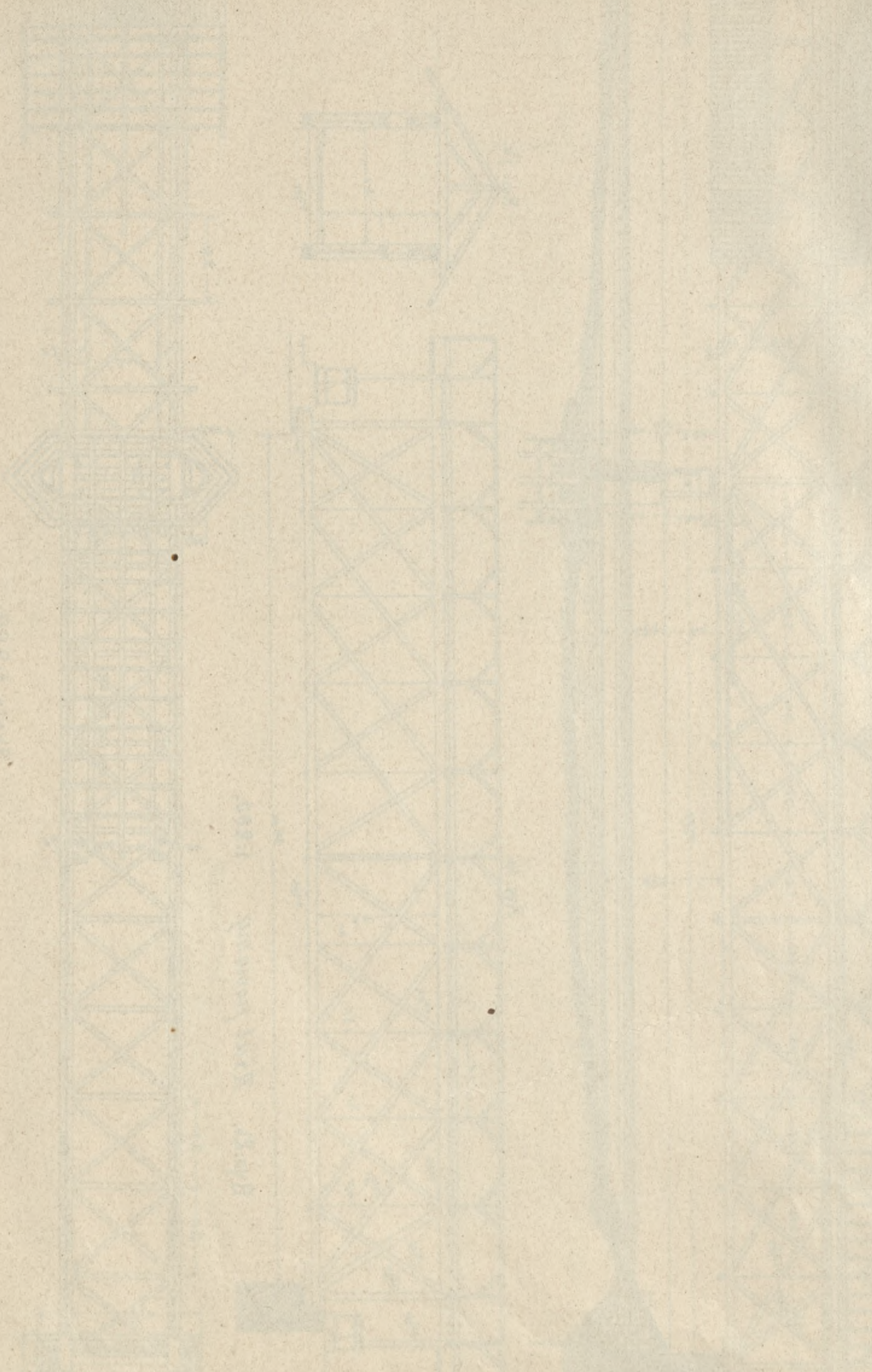
Rys. 1a.



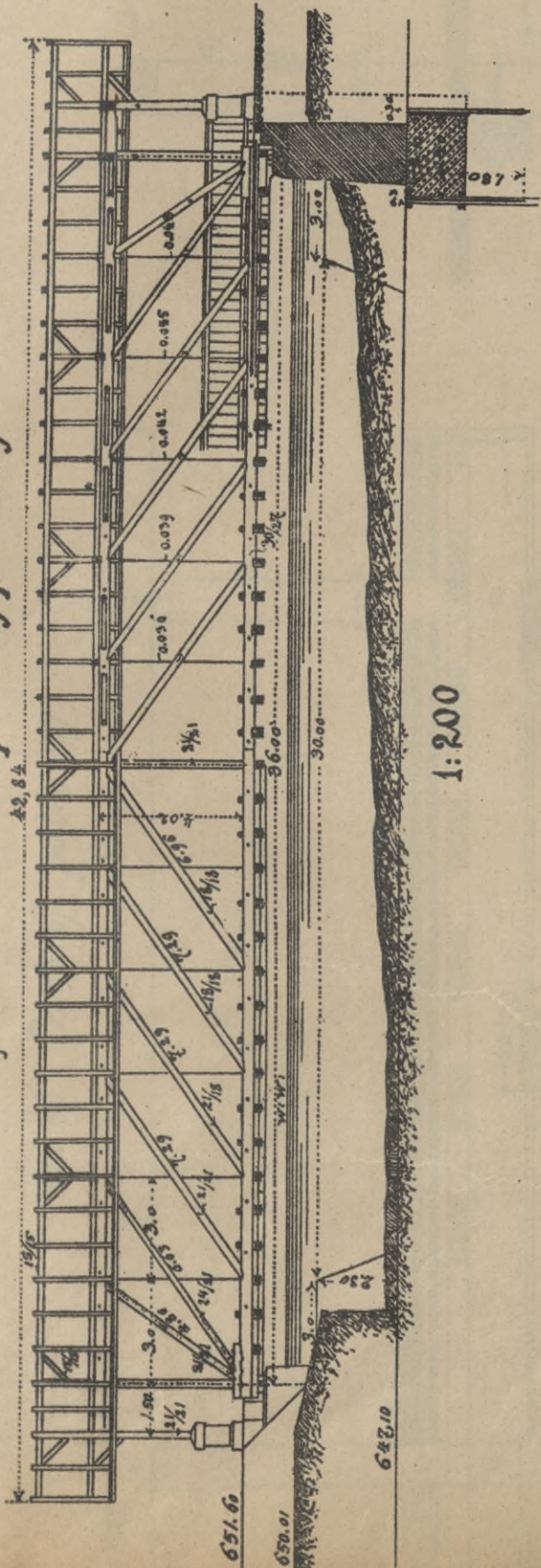
Rys. 2b. Rzut poziomy. 1:200,



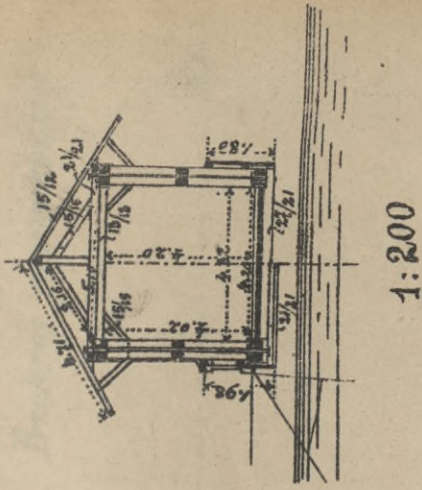
Skala 1:200.



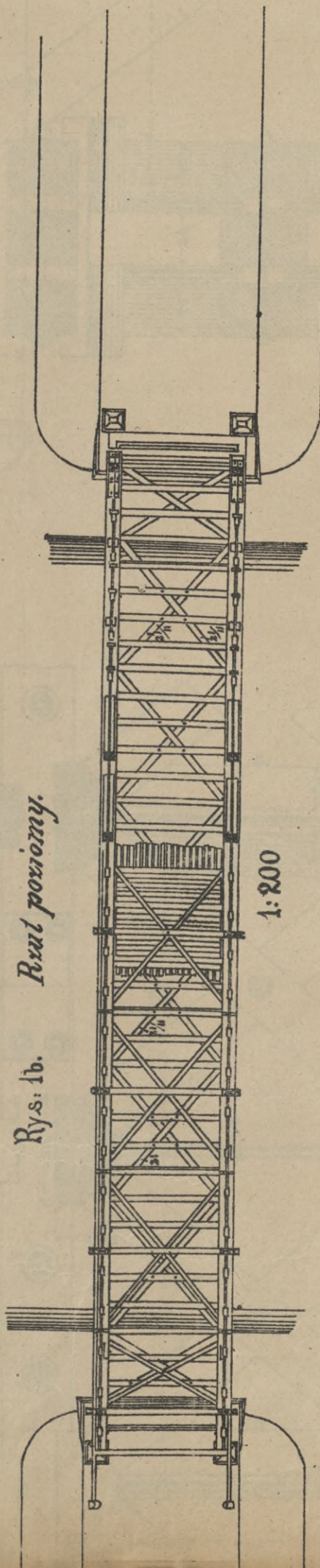
Rys. 1a Widok i przekroj podłużny.



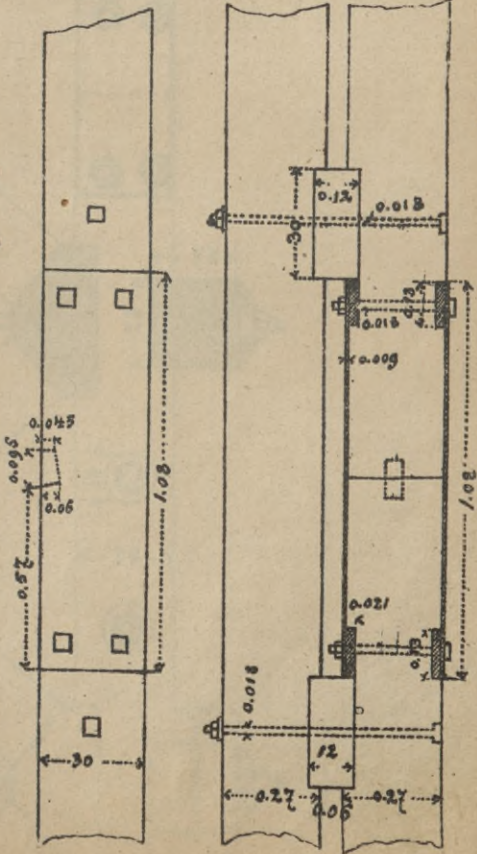
Rys. 1c. Przekroj poprzeczny.



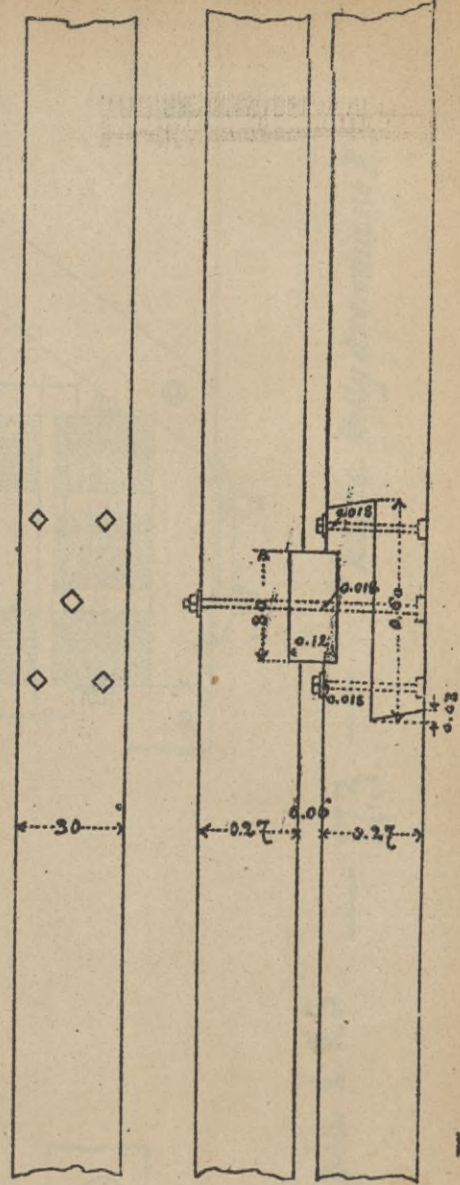
Rys. 1b. Rzut poziomy.



Rys. 2 Zetknięcie w dolnym pasie.



Rys. 3. Zetknięcie w górnym pasie.

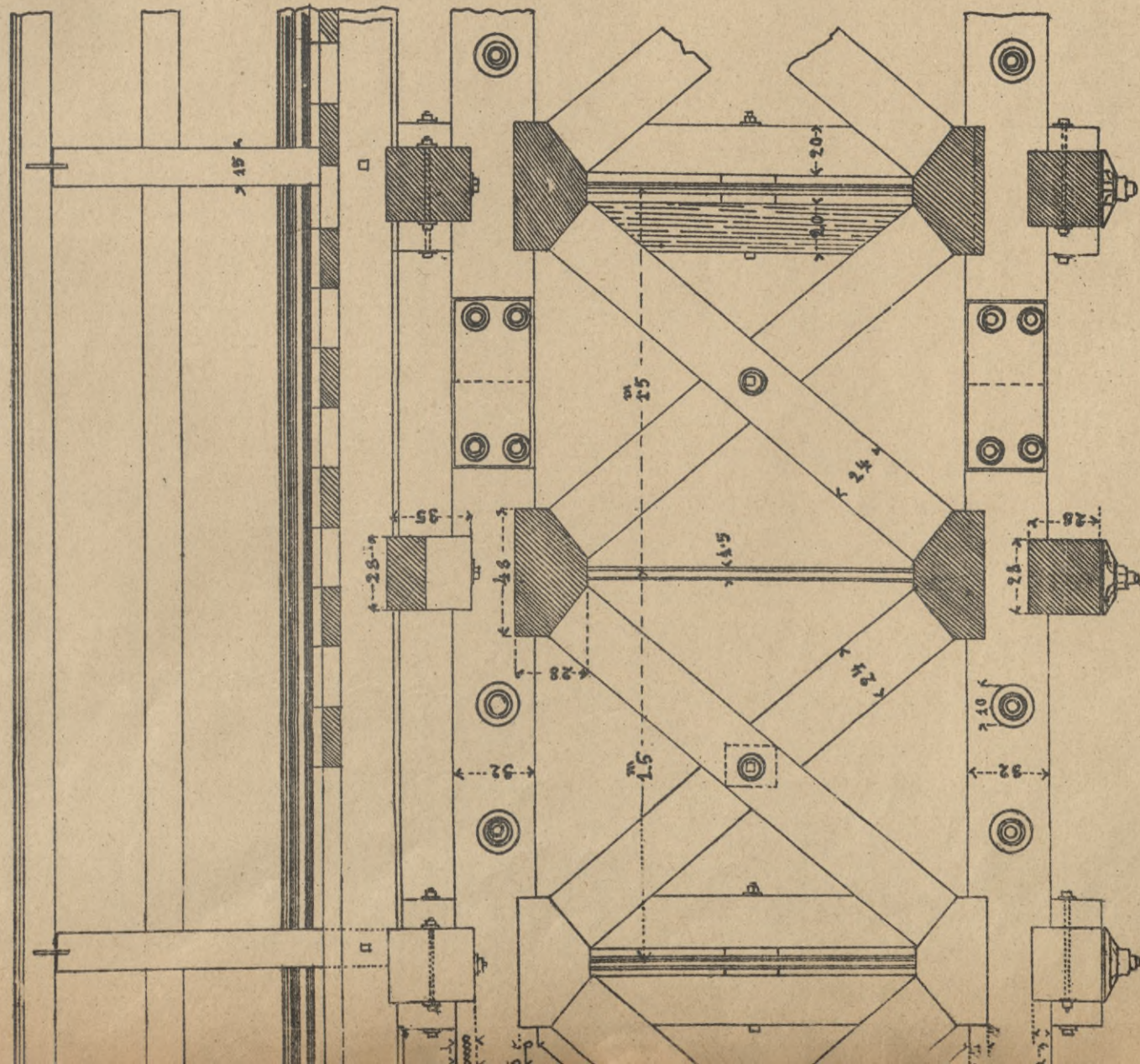


Skala

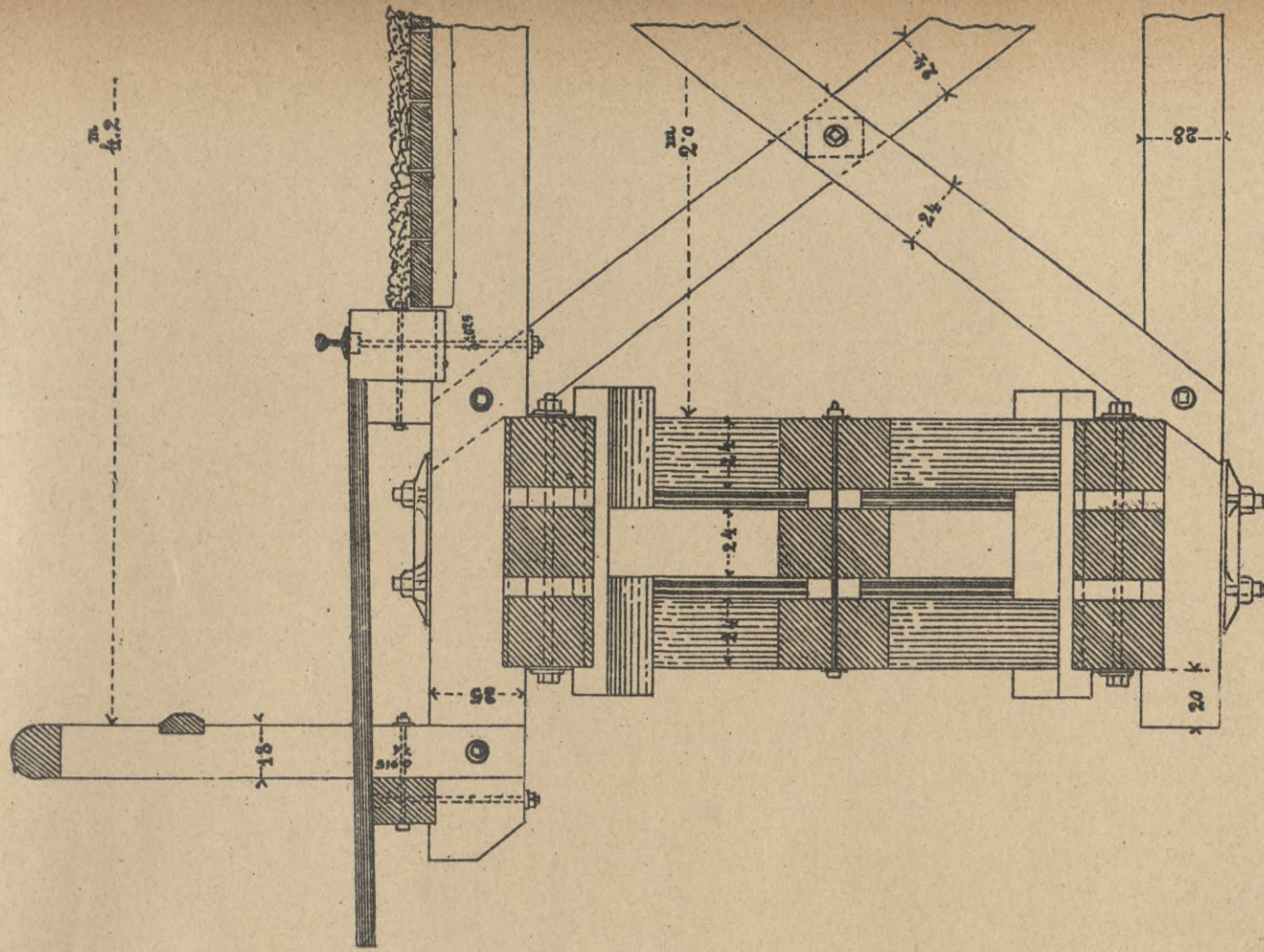
1:20

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Rys. 1a Przekrój podłużny.

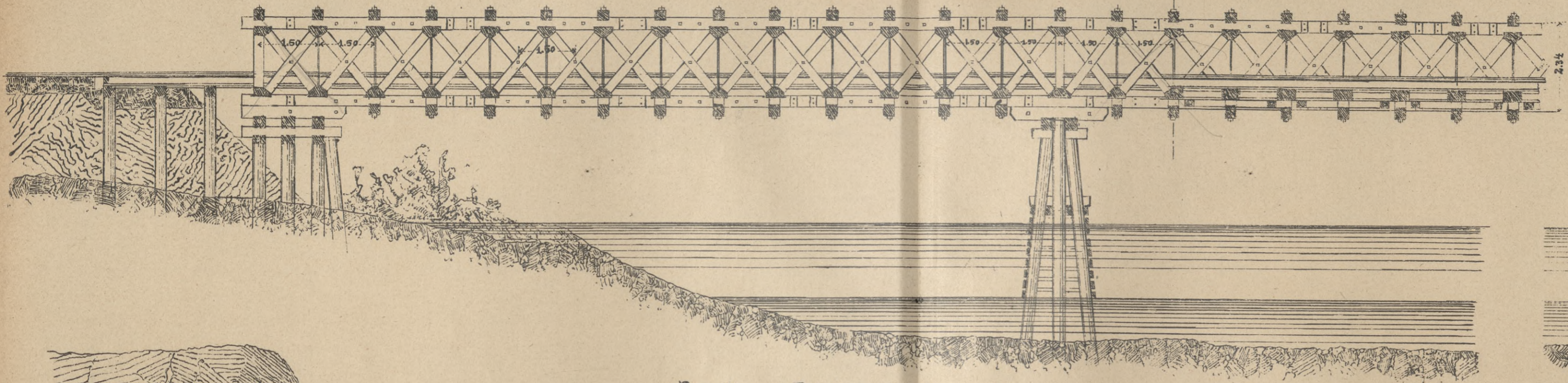


Rys. 1b. Przekrój poprzeczny

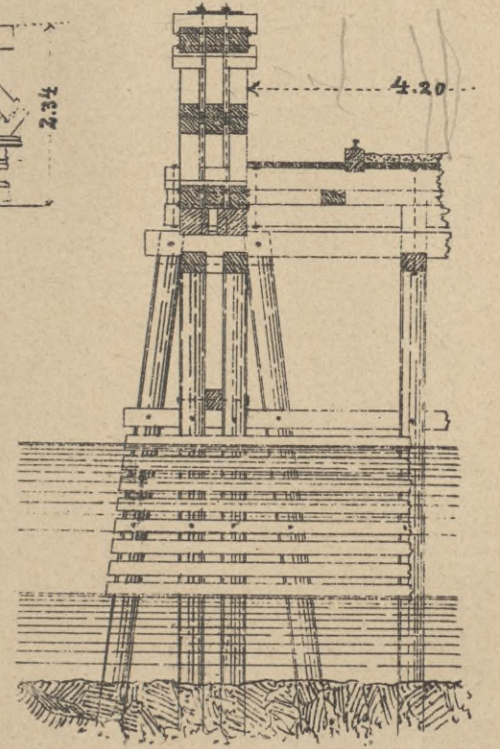


Skala 1:25

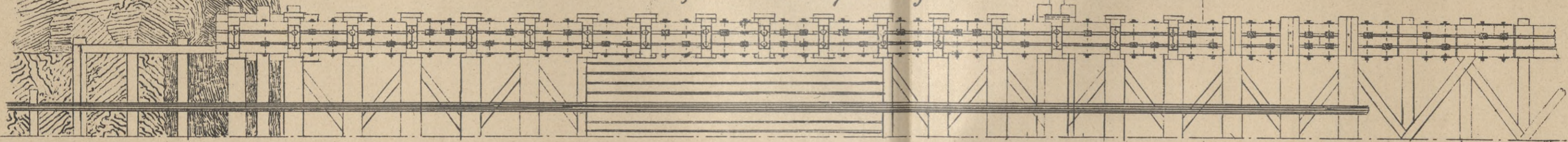
Rys. 1a. Widok i przekrój podłużny.



Rys. 1c. Przekrój poprzeczny

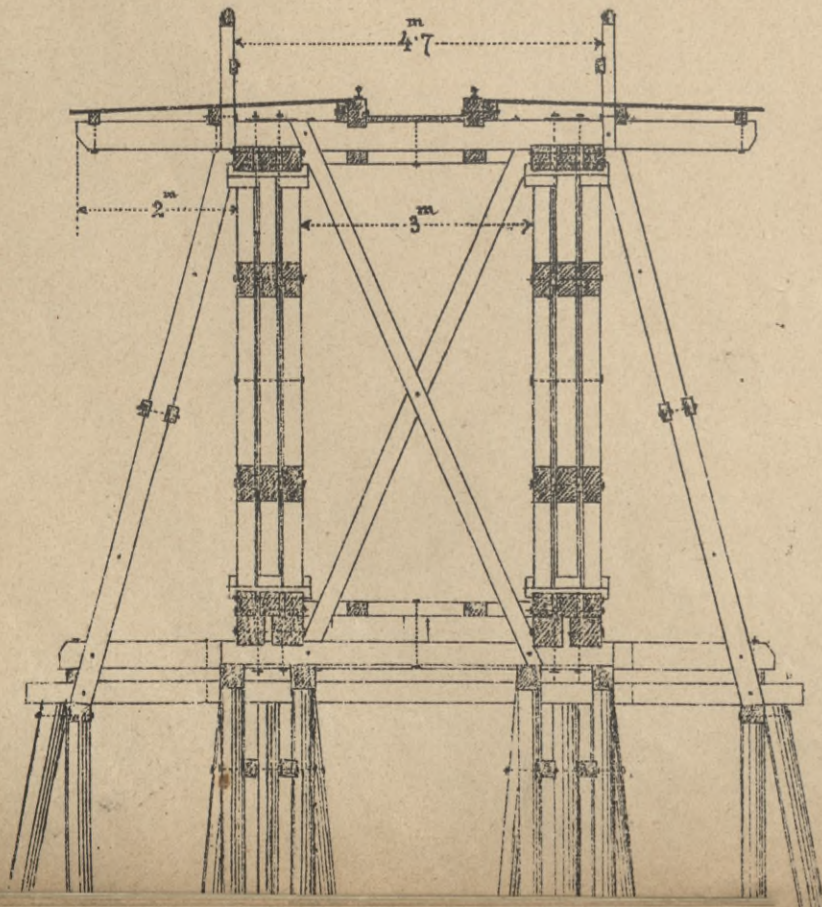


Rys. 1b. Rzut poziomy

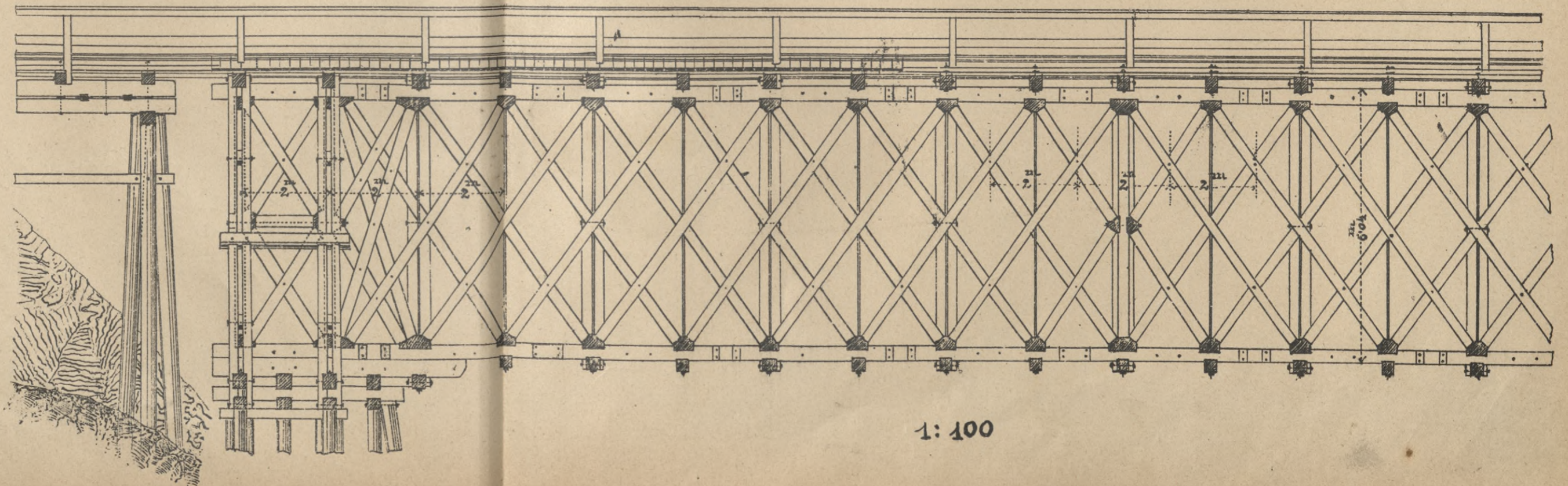


1:100

Rys. 2b. Przekrój poprzeczny.



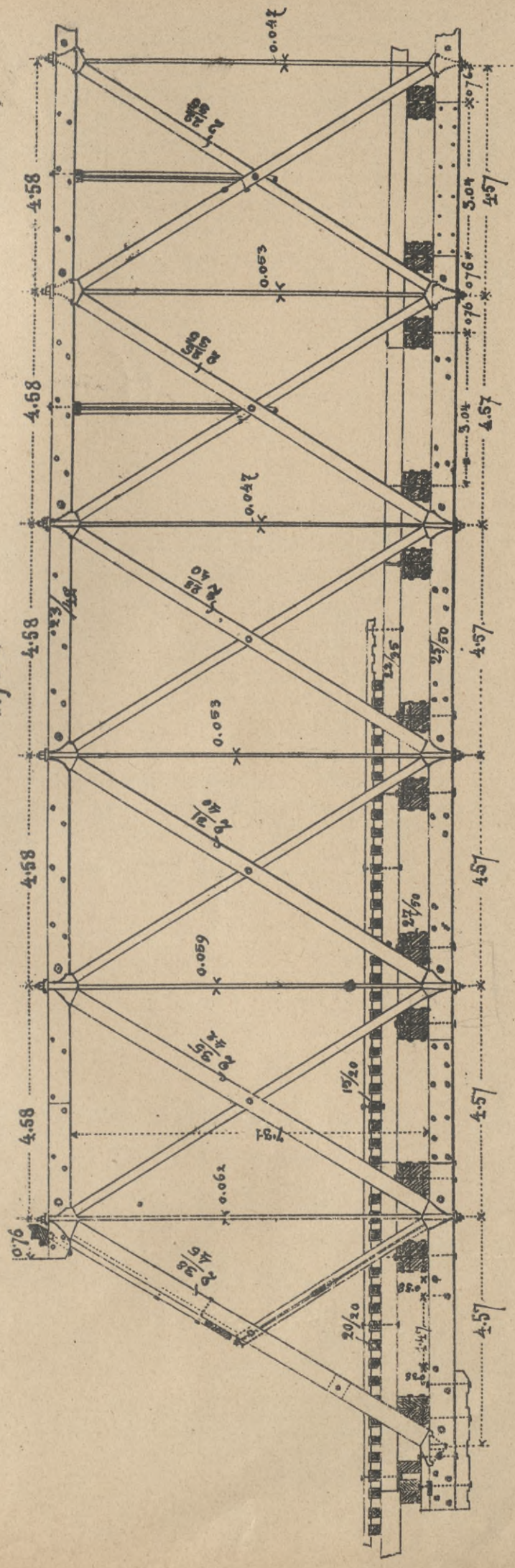
Rys. 2a. Przekrój podłużny i widok.



1:100

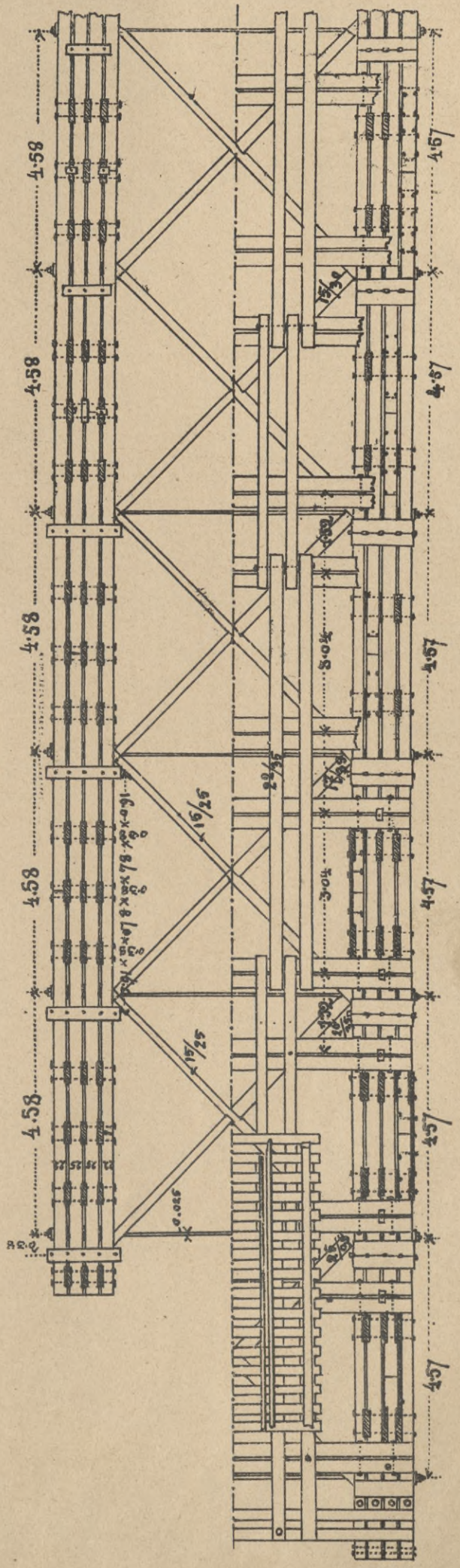
Belka Howe'a o rozpiętości 54.86 metr.

Rys. 1



1:111

Rys. 2.

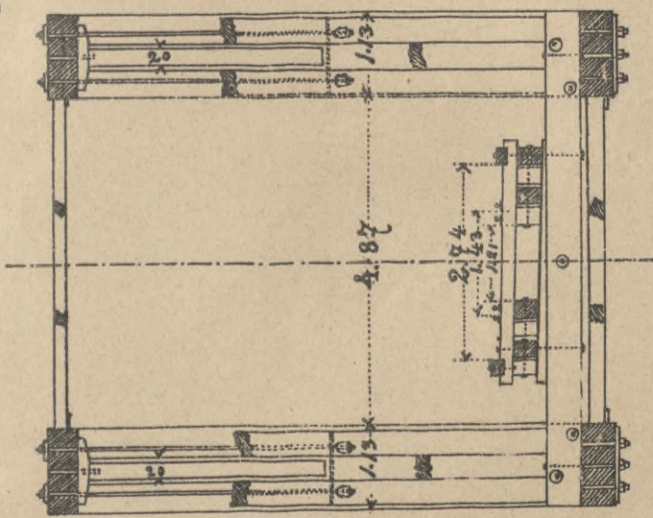


1:111

Most drewniany kolei amerykańskiej zachodniej

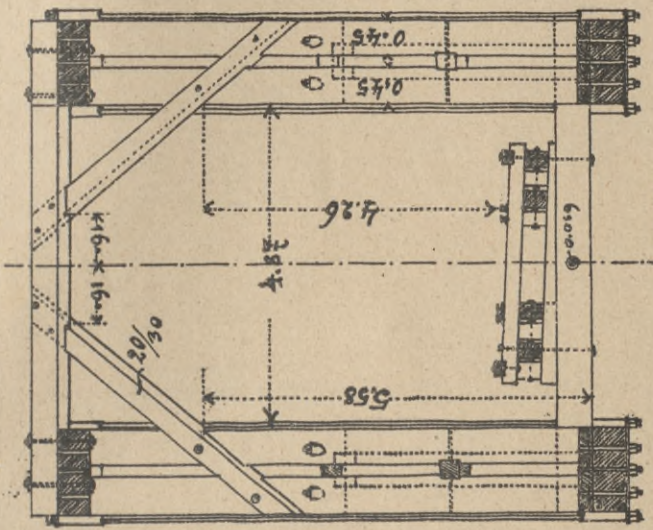
Tabl.

Rys. 1 Przekrój poprzeczny



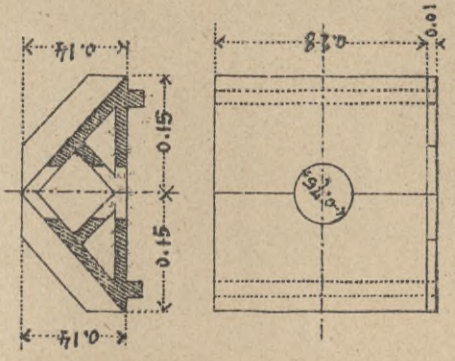
1:100

Rys. 2 Przekrój poprzeczny



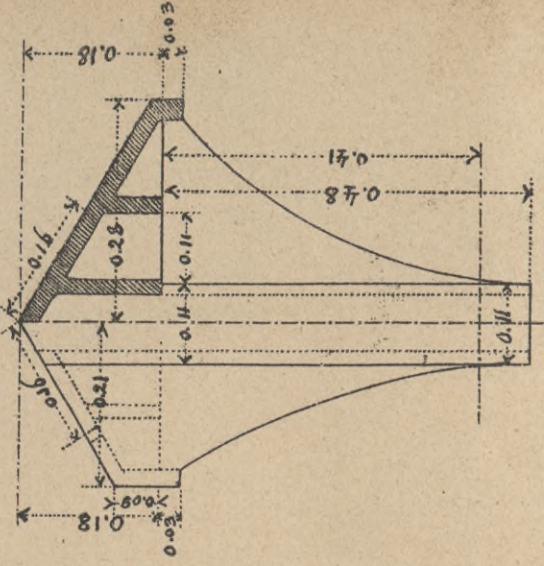
1:100

Rys. 3 Trzewik bocowy.



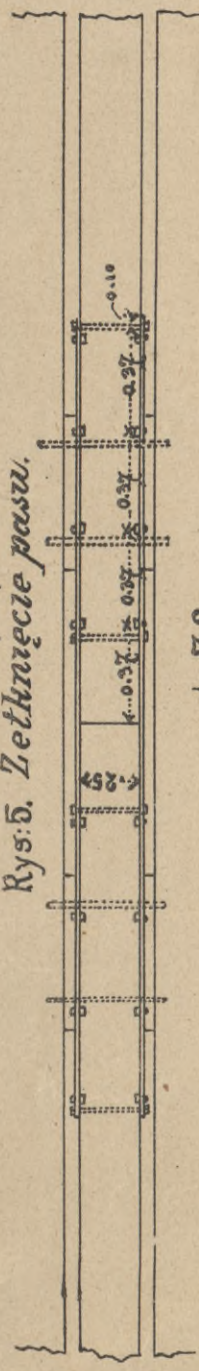
1:10

Rys. 4 Trzewik.



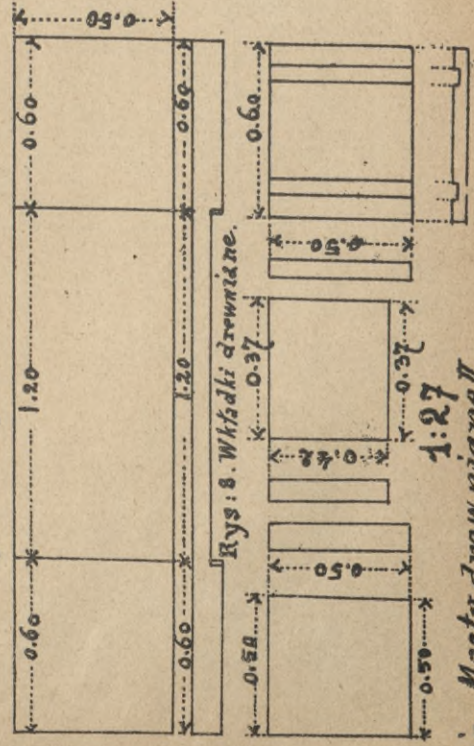
1:10

Rys. 5 Zetknięcie pasu.



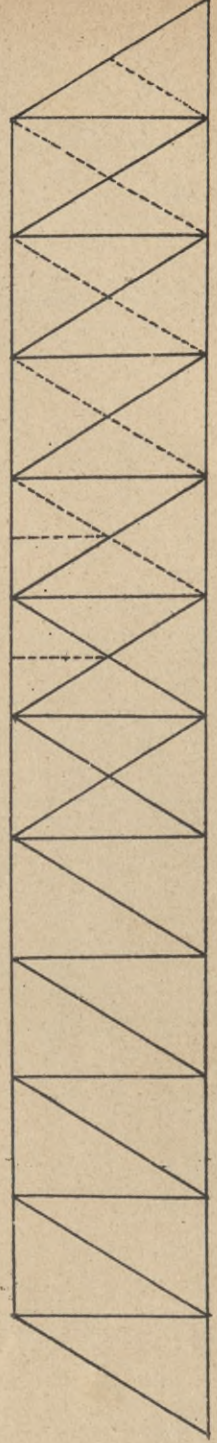
1:32

Rys. 6 Przykładka drewniana.



1:27

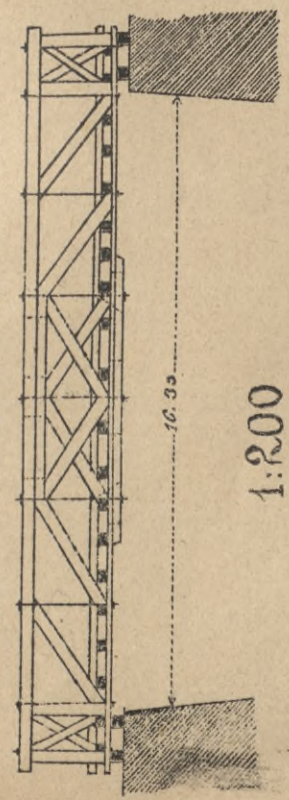
Rys. 7 Sukie belki głównej.



1:300

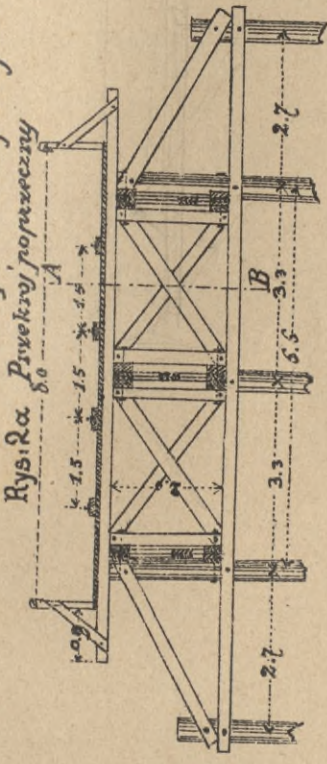
Mosty kolejowe.

Rys: 1. Most norweskki



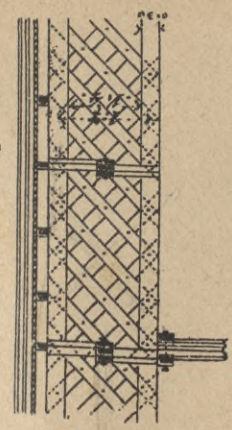
1:200

Most przewidywany na Renie pod Kehl

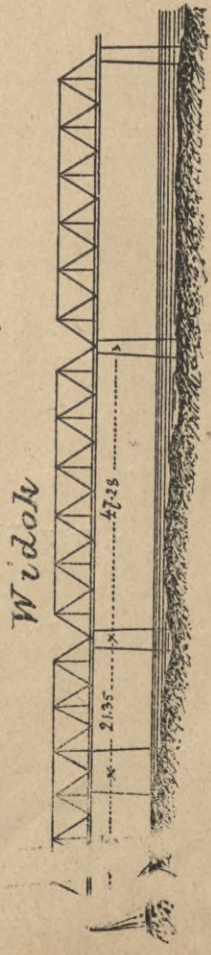


Rys: 2a. Przekroj poprzeczny

Rys: 2b. Przekroj AB.



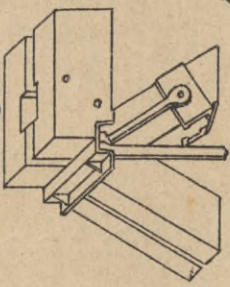
Most na rzece Tennessee Rys: 3a. Widok



1:1200

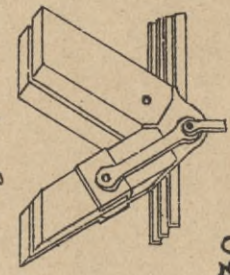
Rys: 3b

Górny węzeł



Rys: 3c

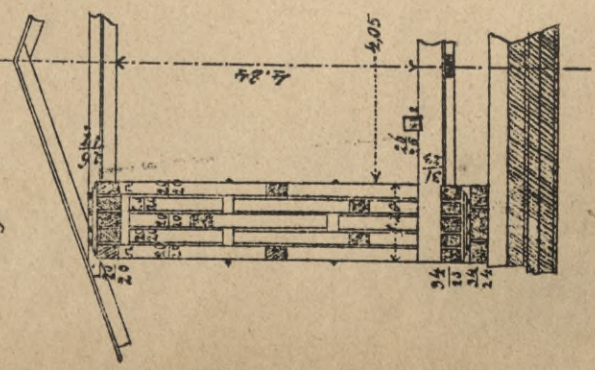
Dolny węzeł.



1:50

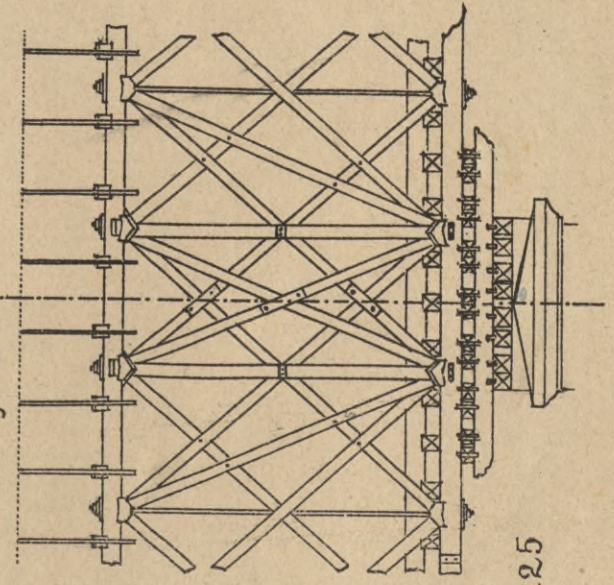
Most na Duraju pod Erbach

Rys: 4b Przekroj poprzeczny.



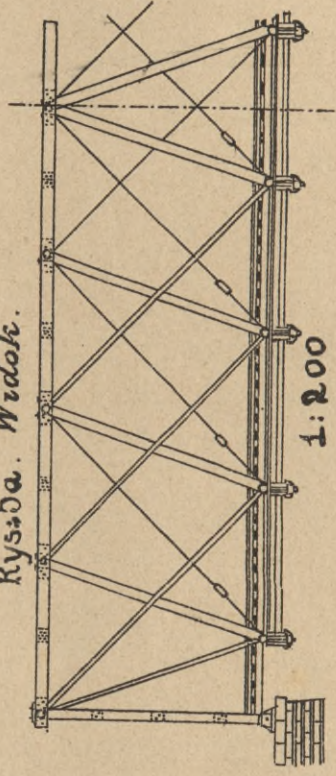
1:125

Rys: 4a. Widok



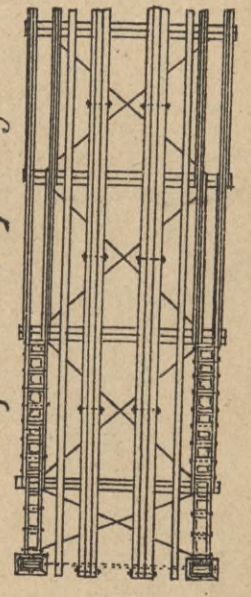
Belka Post'a

Rys: 5a. Widok.



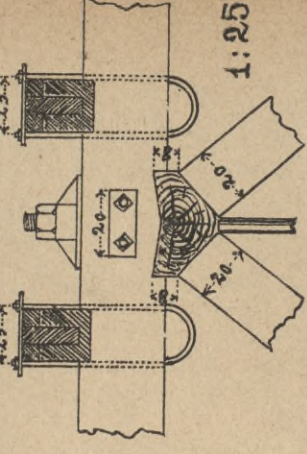
1:200

Rys: 5b. Krut poziomy.



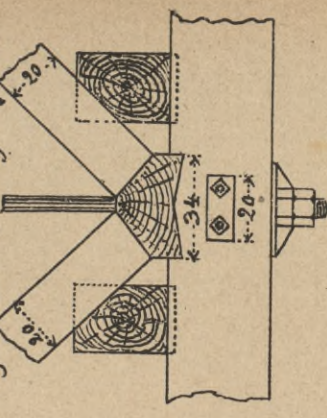
1:200

Rys: 4c. Górny węzeł



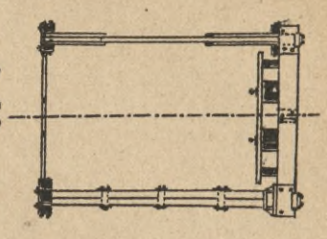
1:25

Rys: 4d. Dolny węzeł



Rys: 5c

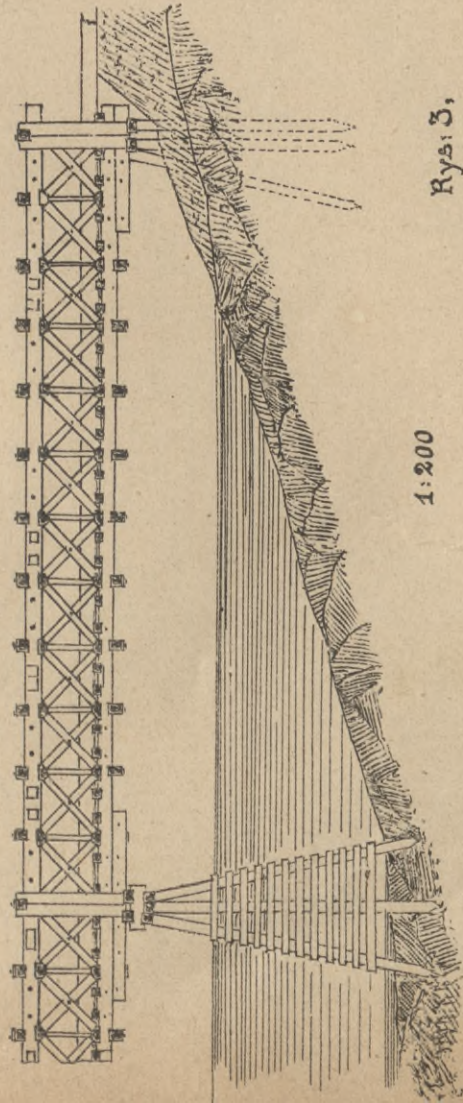
Przekroj poprzeczny.



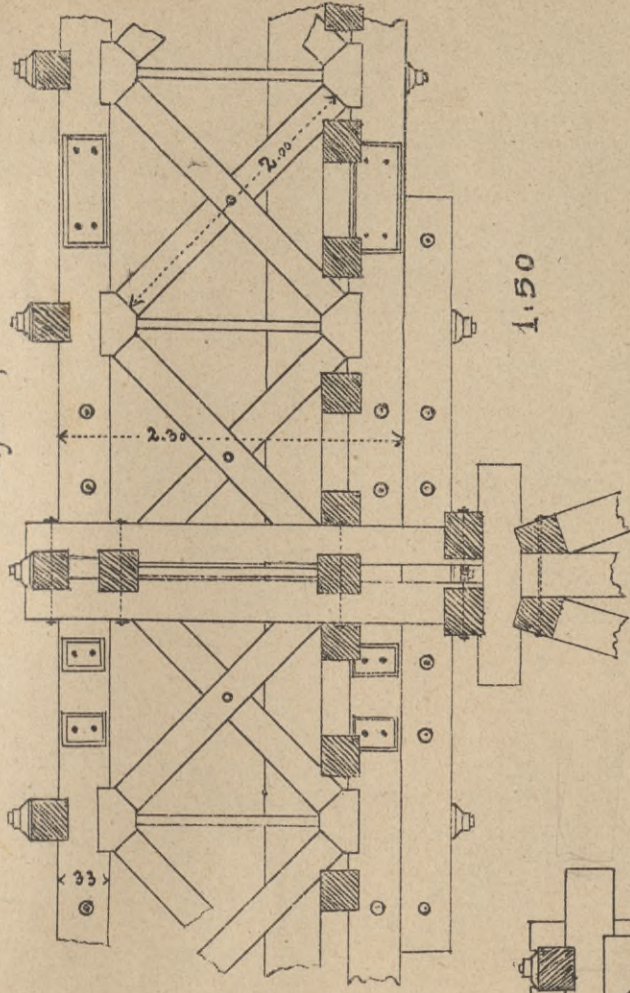
Most kolei węg. wschodniej na rzece Aranyos.

Tab. 24.

Rys. 1 Widok.

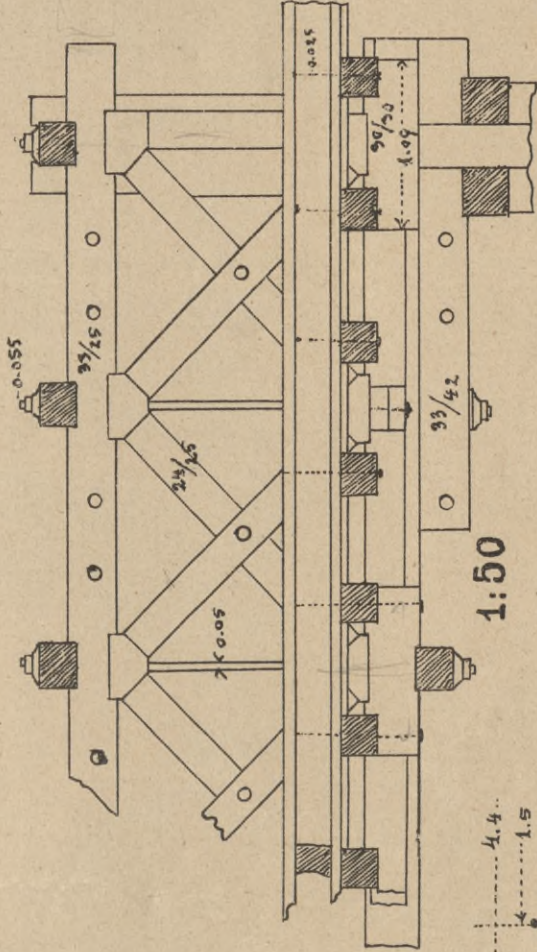


Rys. 2,



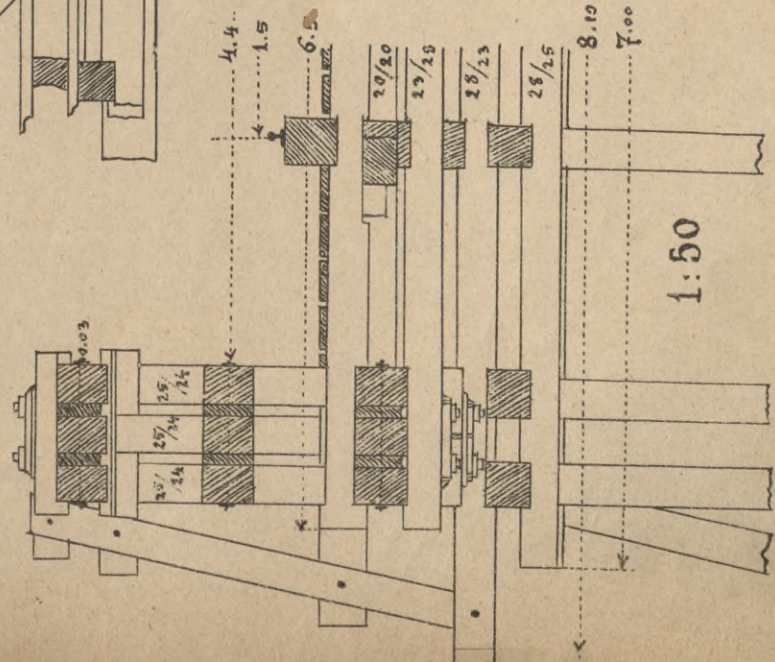
1:200

Rys. 3,



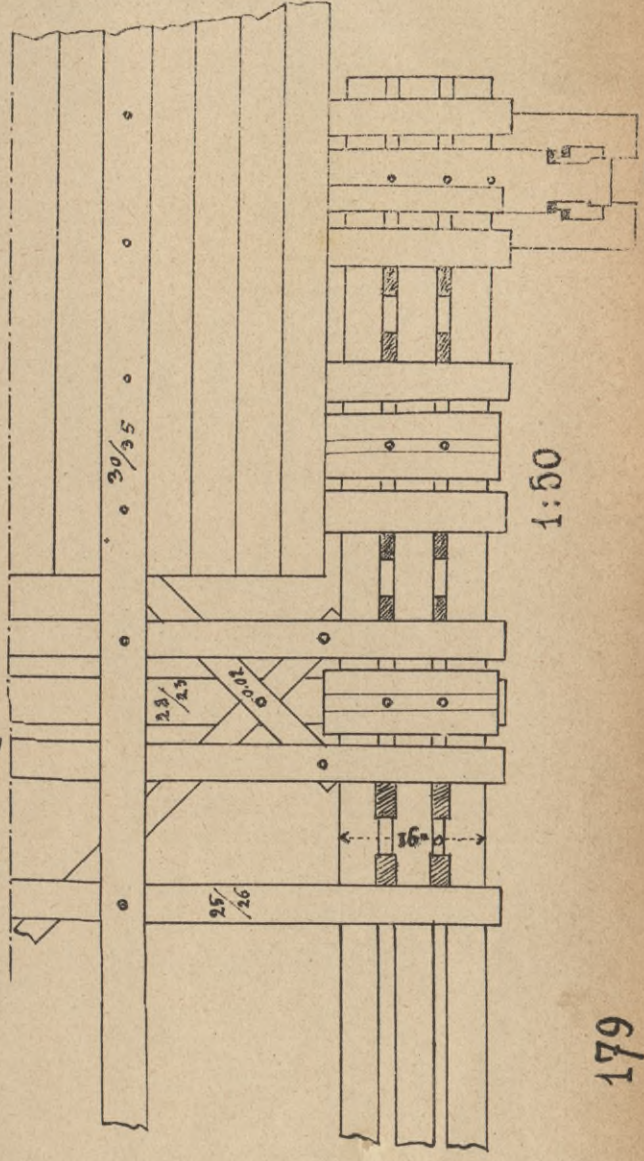
1:50

Rys. 4



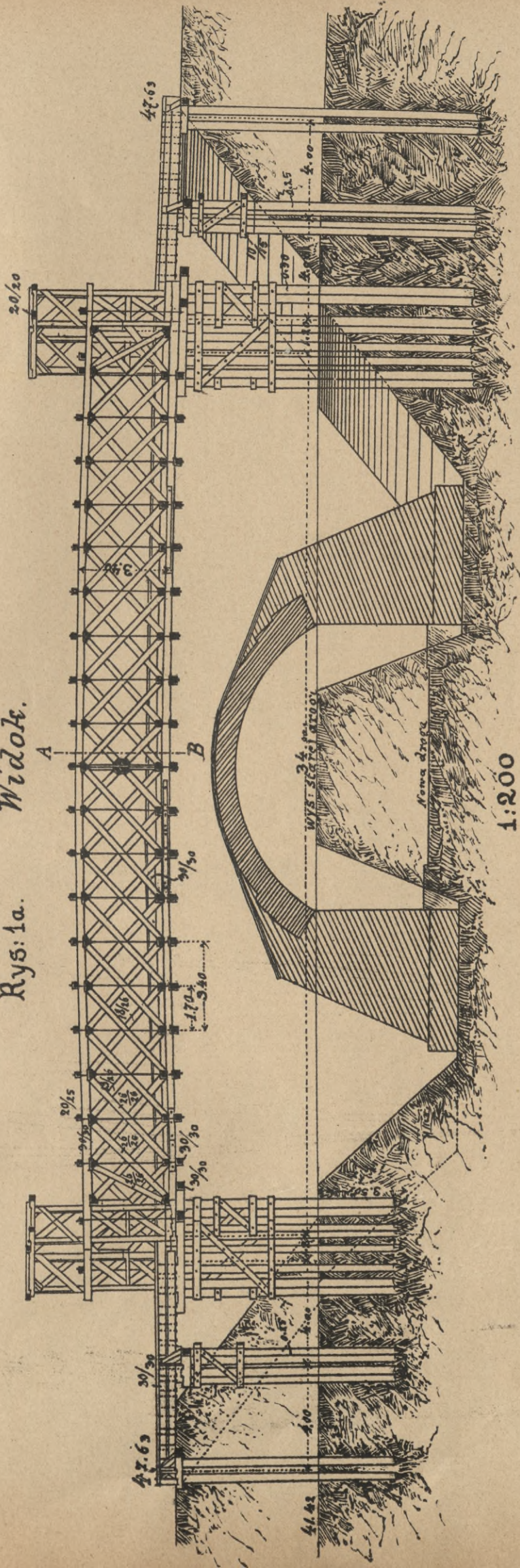
1:50

Rys. 5,

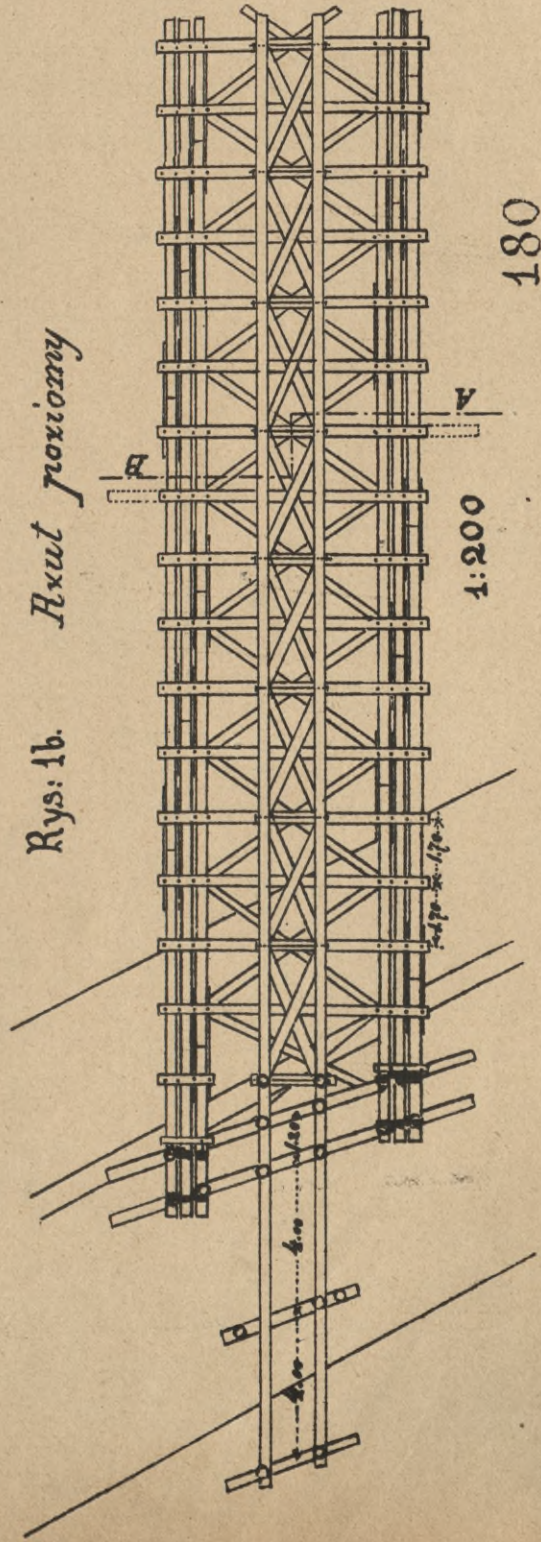


1:50

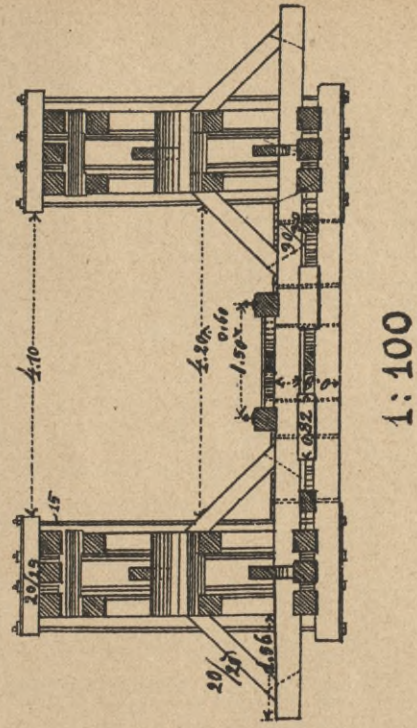
Rys. 1a. Widok.



Rys. 1b. Rzut poziomy

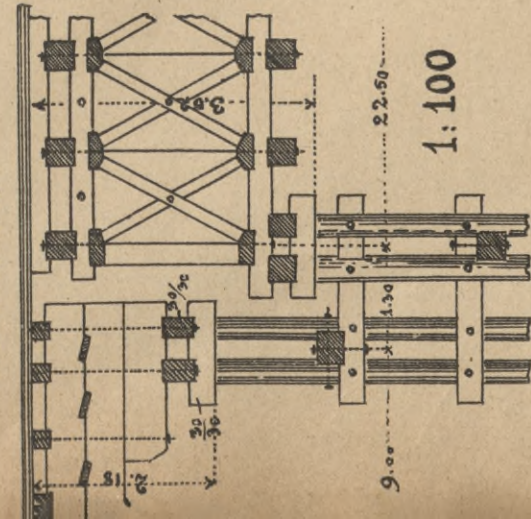


Rys. 1c. Przekrój A-B

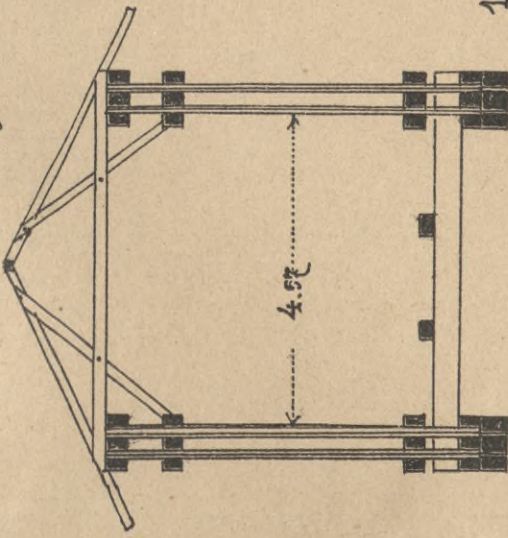


Rys. 1

Most tymczasowy pod Hollman.

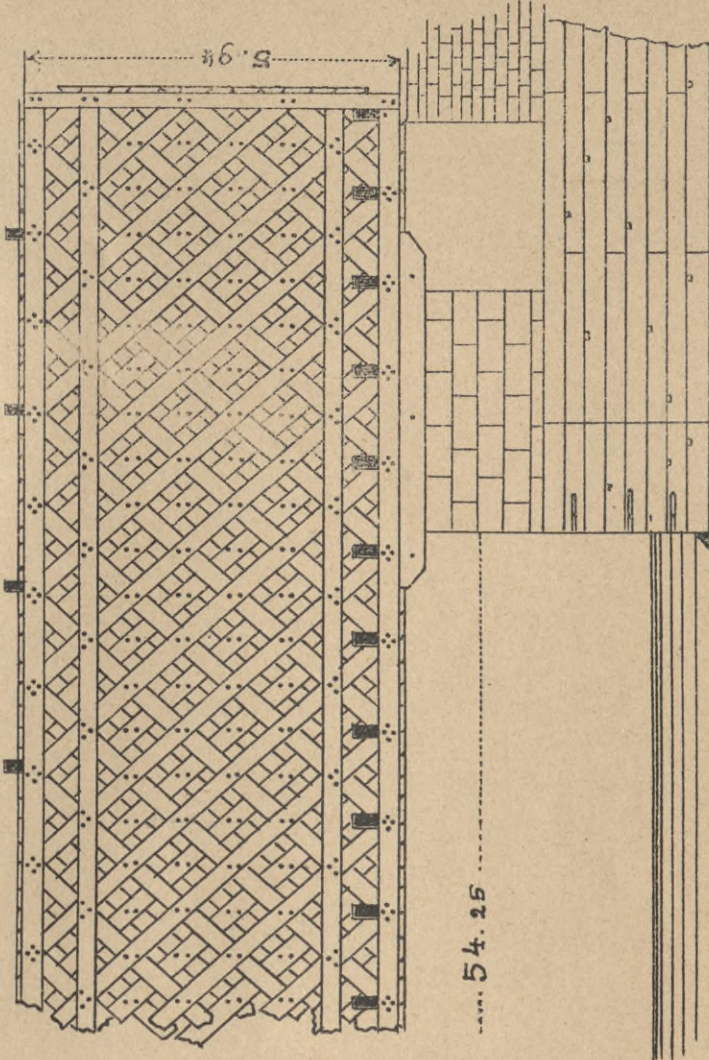


Rys. 2a. Przekrój



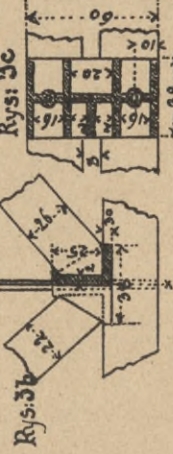
Most amerykański Towna i Howe'a Rys. 2b.

Widok.

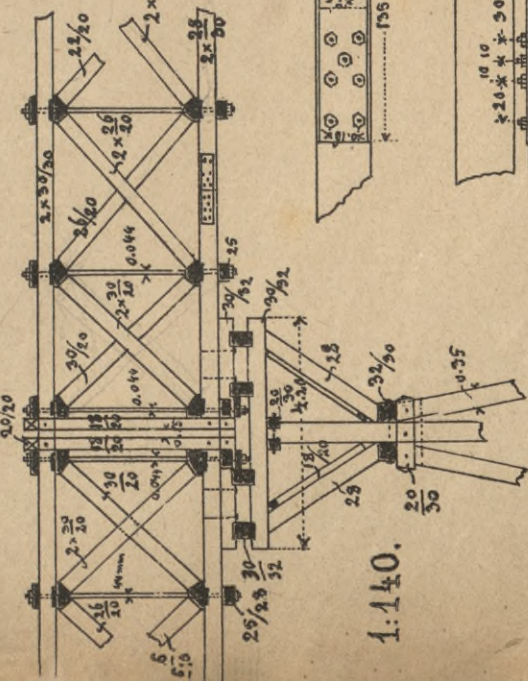


54.25

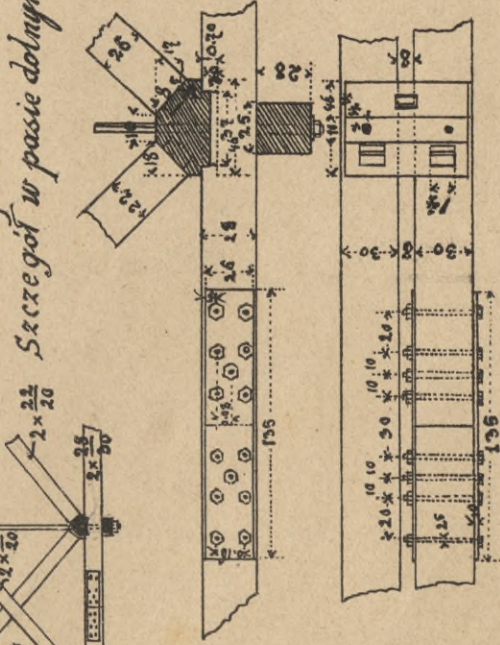
Szczegół węzła dolnego Rys. 3c



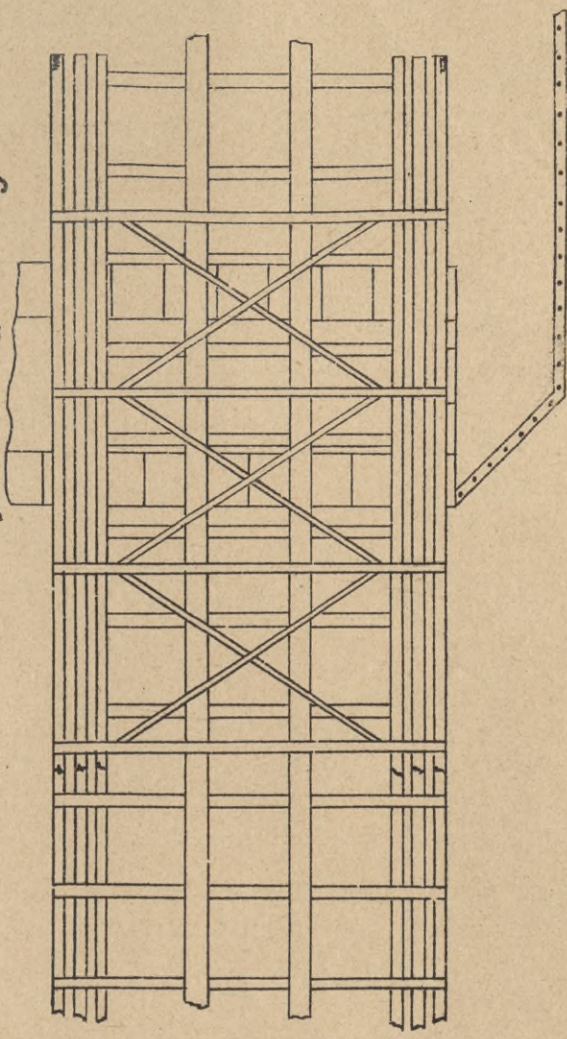
Rys. 3a. Most na Weltaire w Pradze Widok.

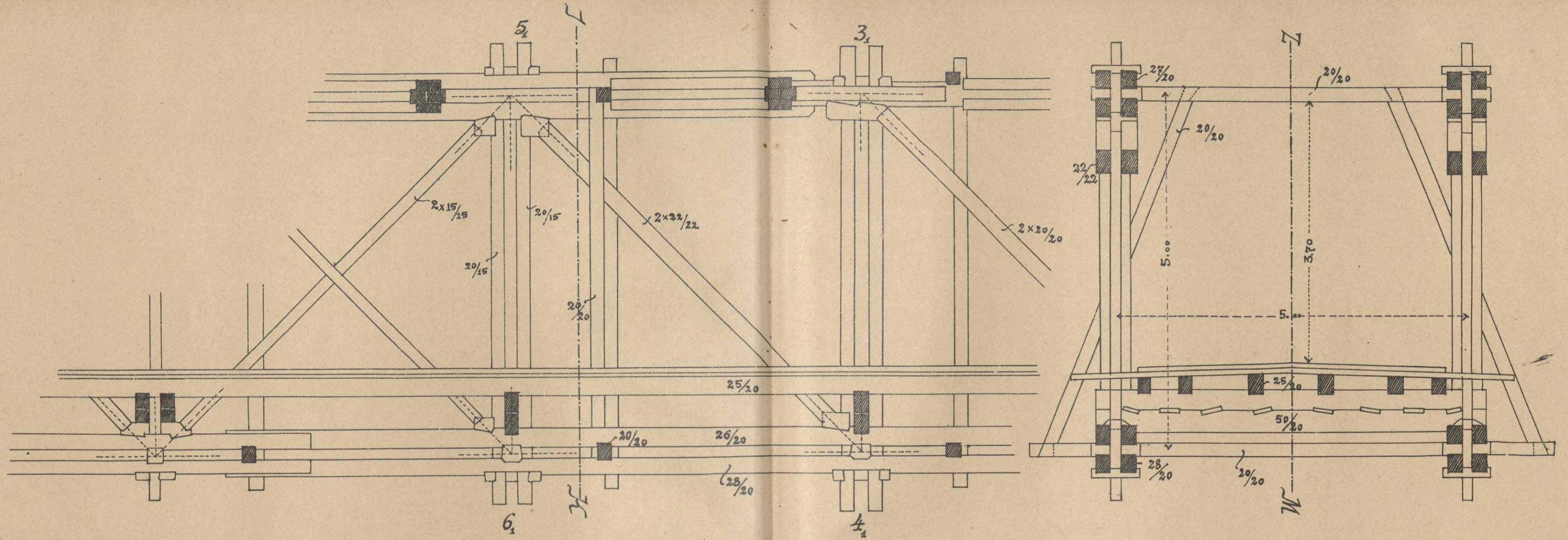


Rys. 3d. Szczegół w pasie dolnym



Rys. 2c Przekrój.





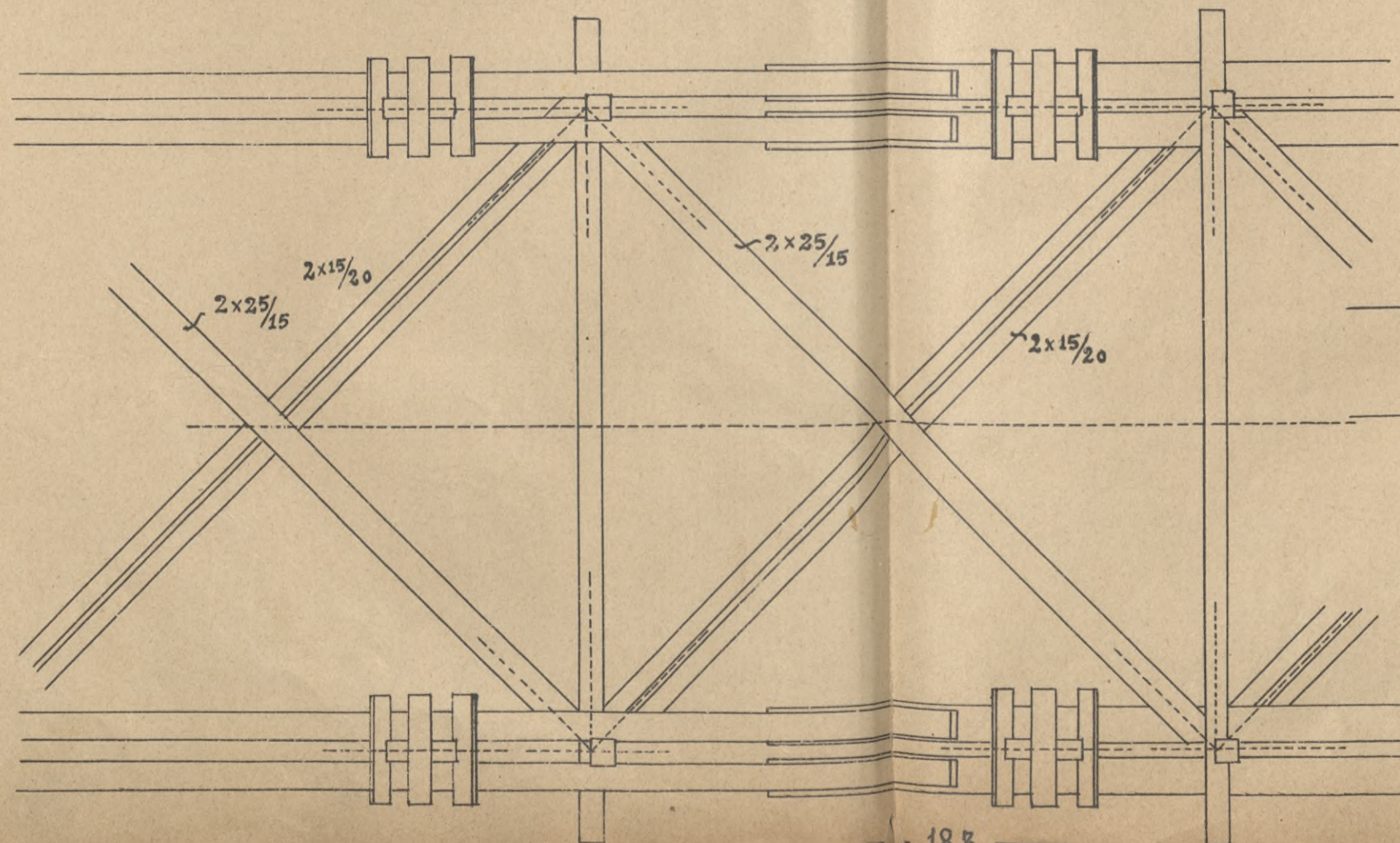
Rys poziomy.

Most drogowy

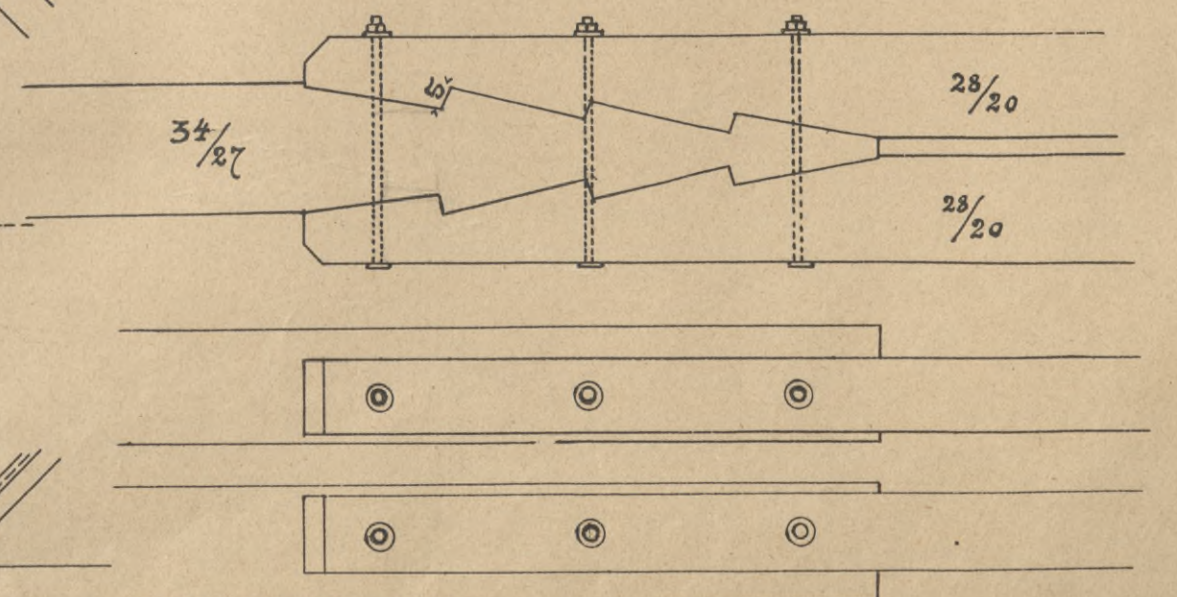
układu

RYCHTERA

Skala, 1:50,



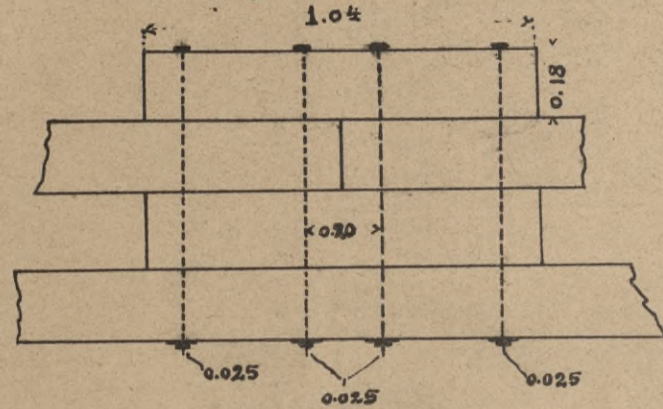
Szczegół połączenia dolnego pasa $\frac{1}{20}$ n:w:



układu Pintowskiego.

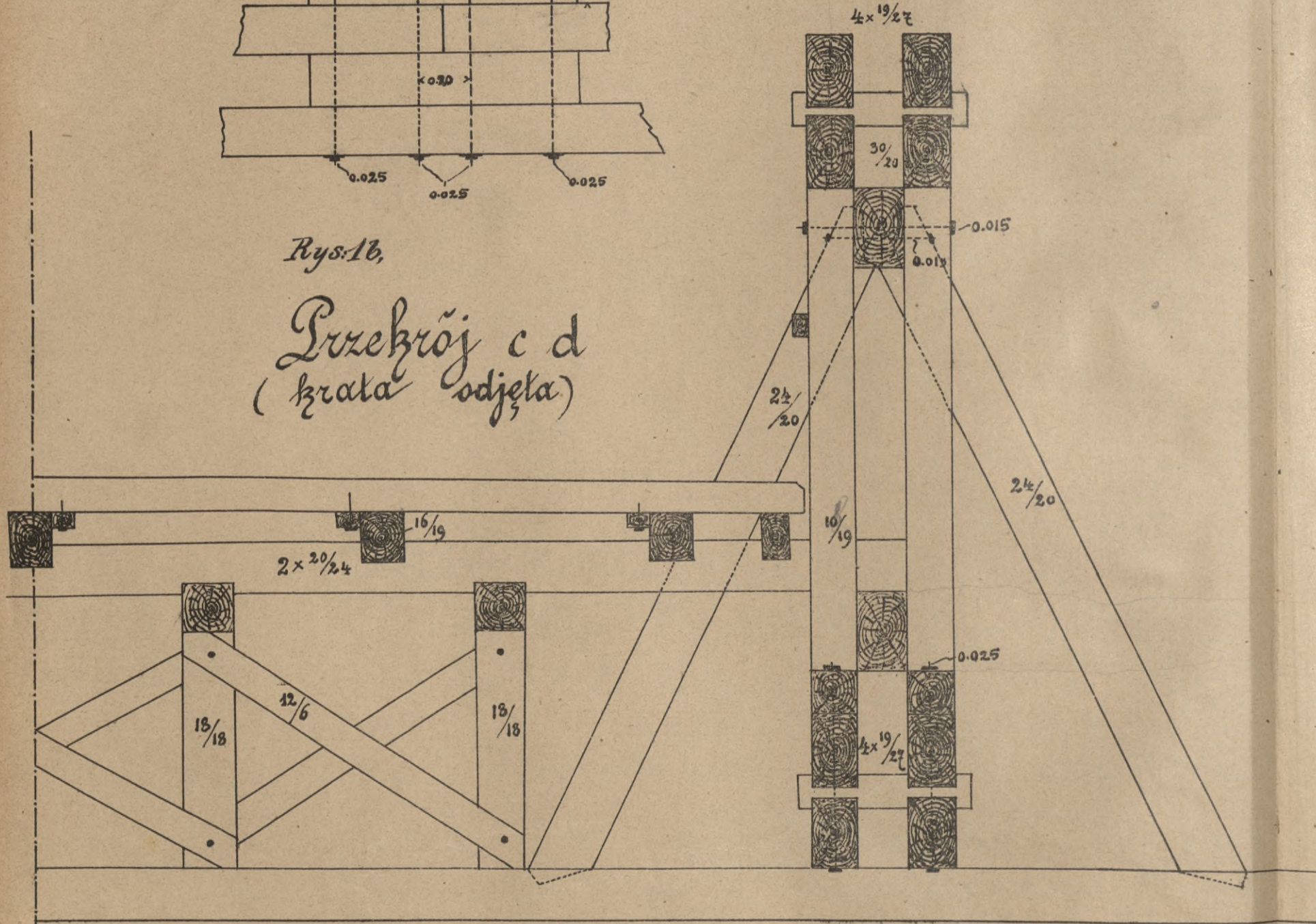
Rys. 2,

Styki belek pasu górnego.



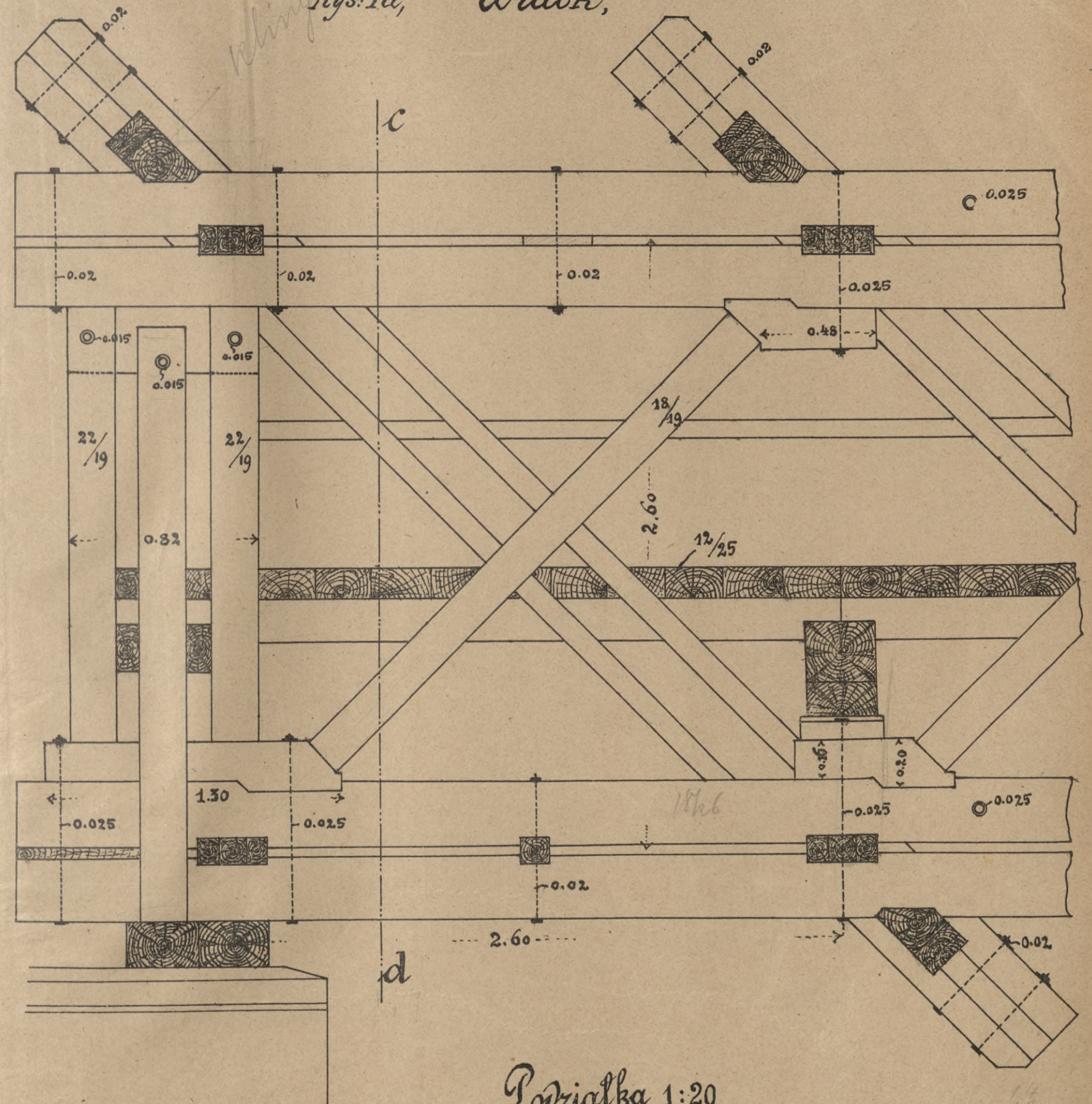
Rys. 1b,

Przekrój c d
(brata odjęta)



Rys. 1a,

Widok,



Podziałka 1:20

Długość teor. 25,60 m. Szerokość pom. 5,90 m.
 Wysokość teor. 2,56 m. Szerokość mostu w świetle 6,00 m.

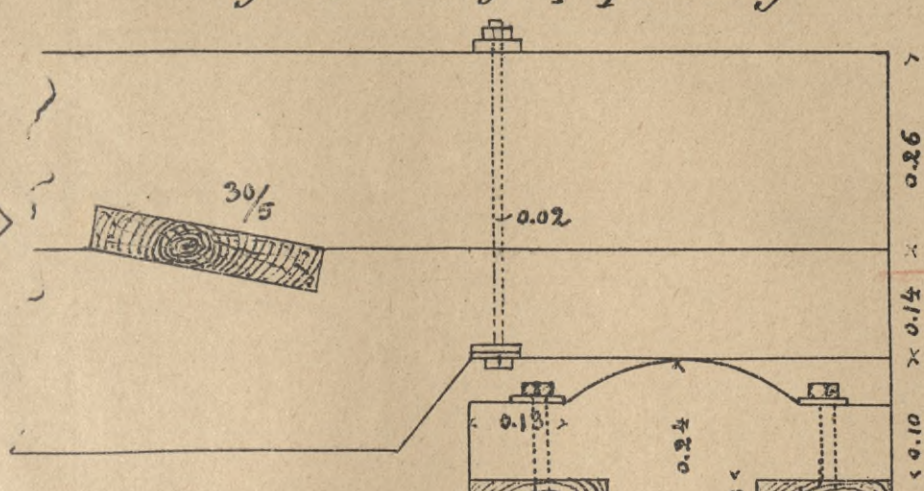
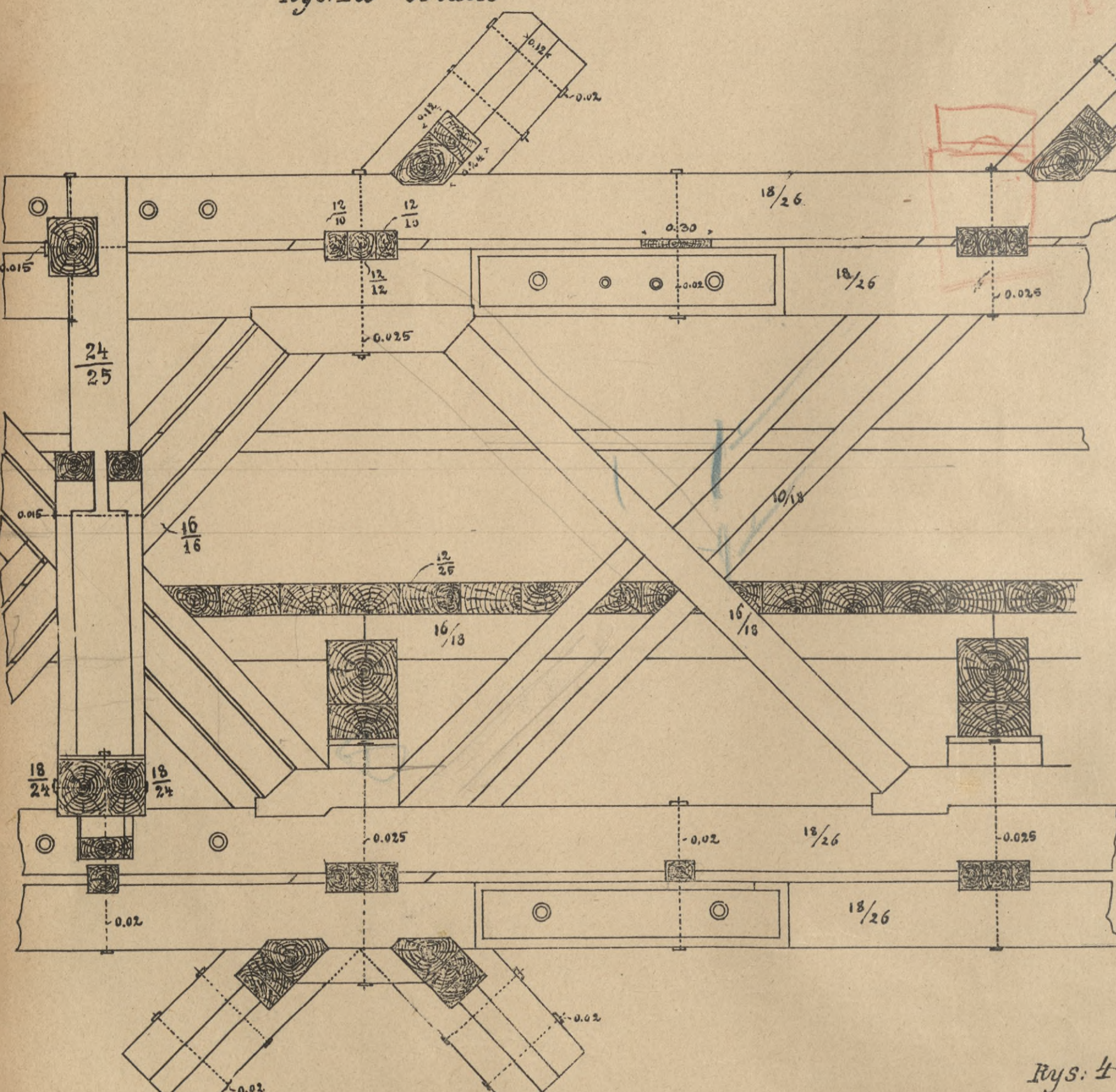
układu Pinlowskiego.

Rys. 2, Szczygół poprzeczny

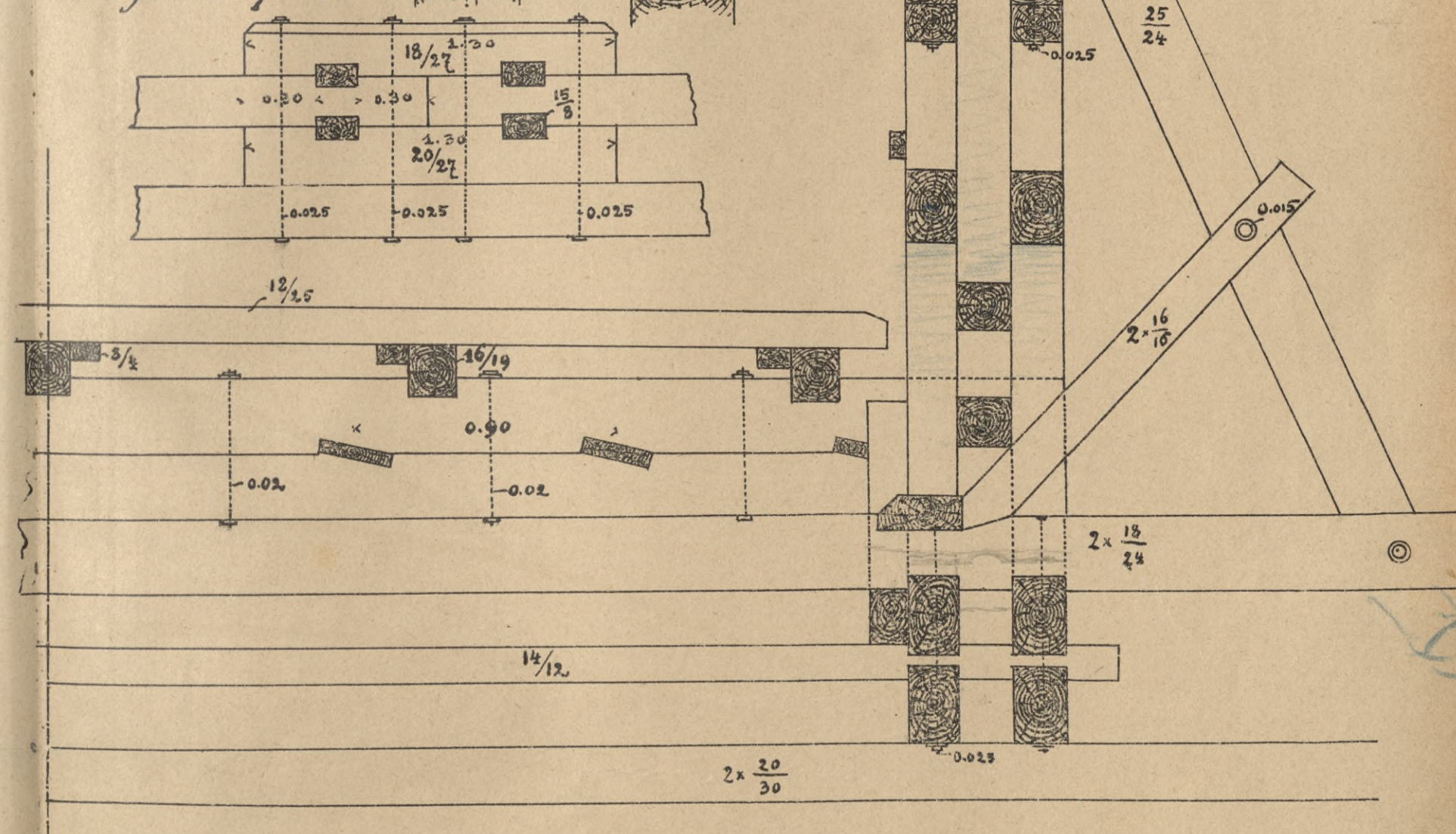
Rys. 1b

Rys. 1a Widok

Przekrój



Rys. 3 Styk belek pasu

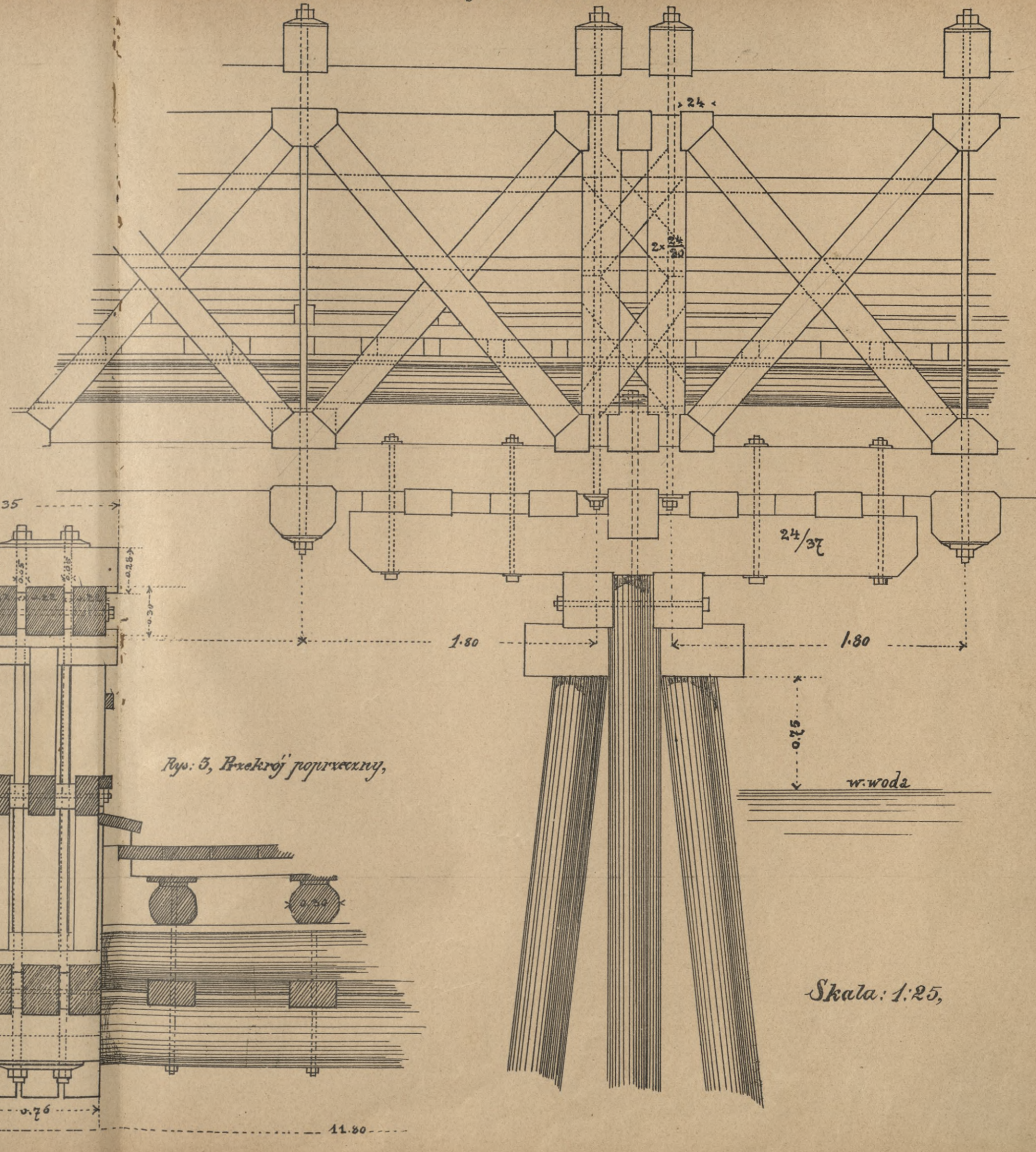
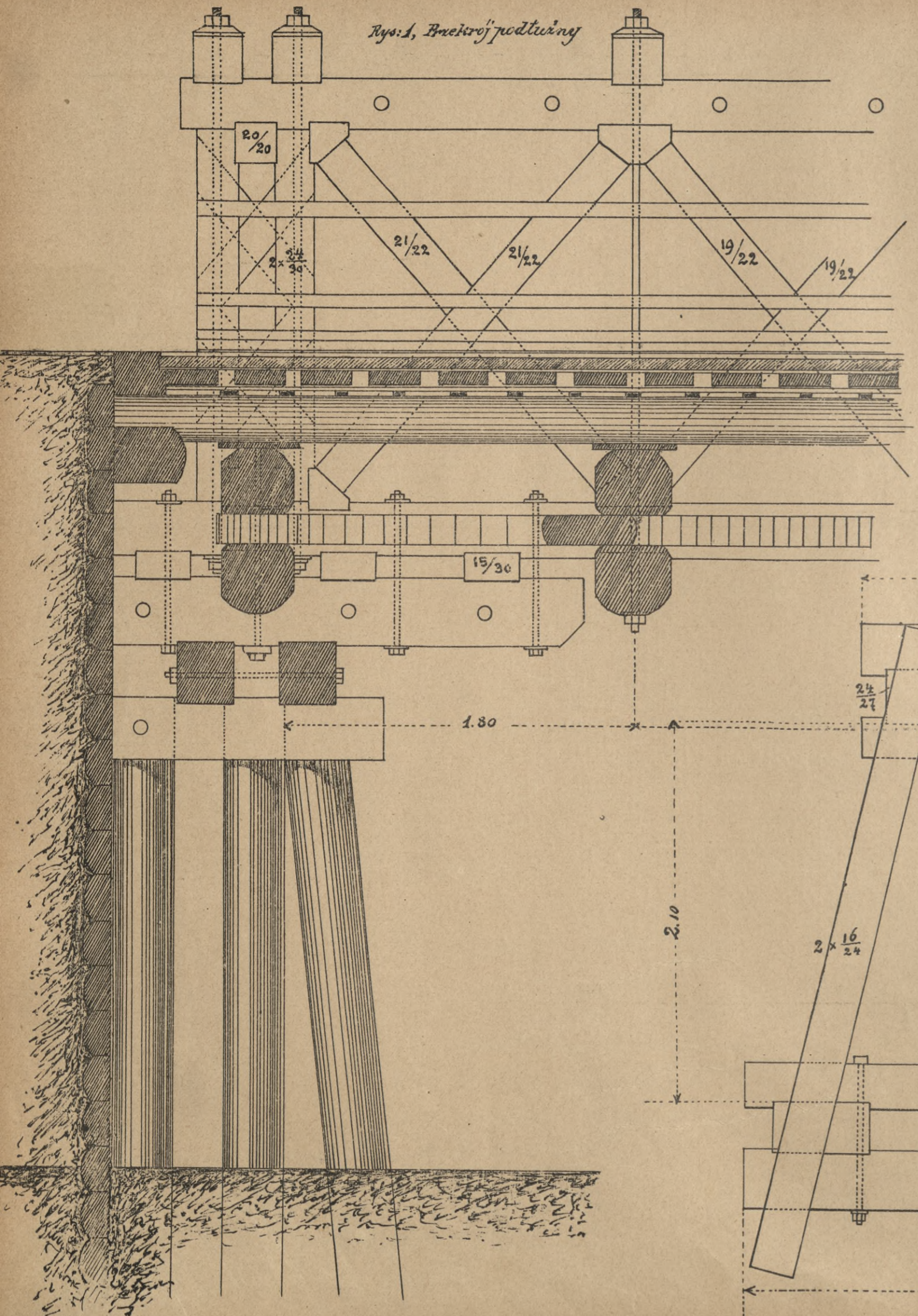


Rys. 4

belka górna	9.82	10.40	7.22
dolna	7.62	9.60	10.22
górna	4.62	10.48	12.34
dolna	12.34	10.08	5.02

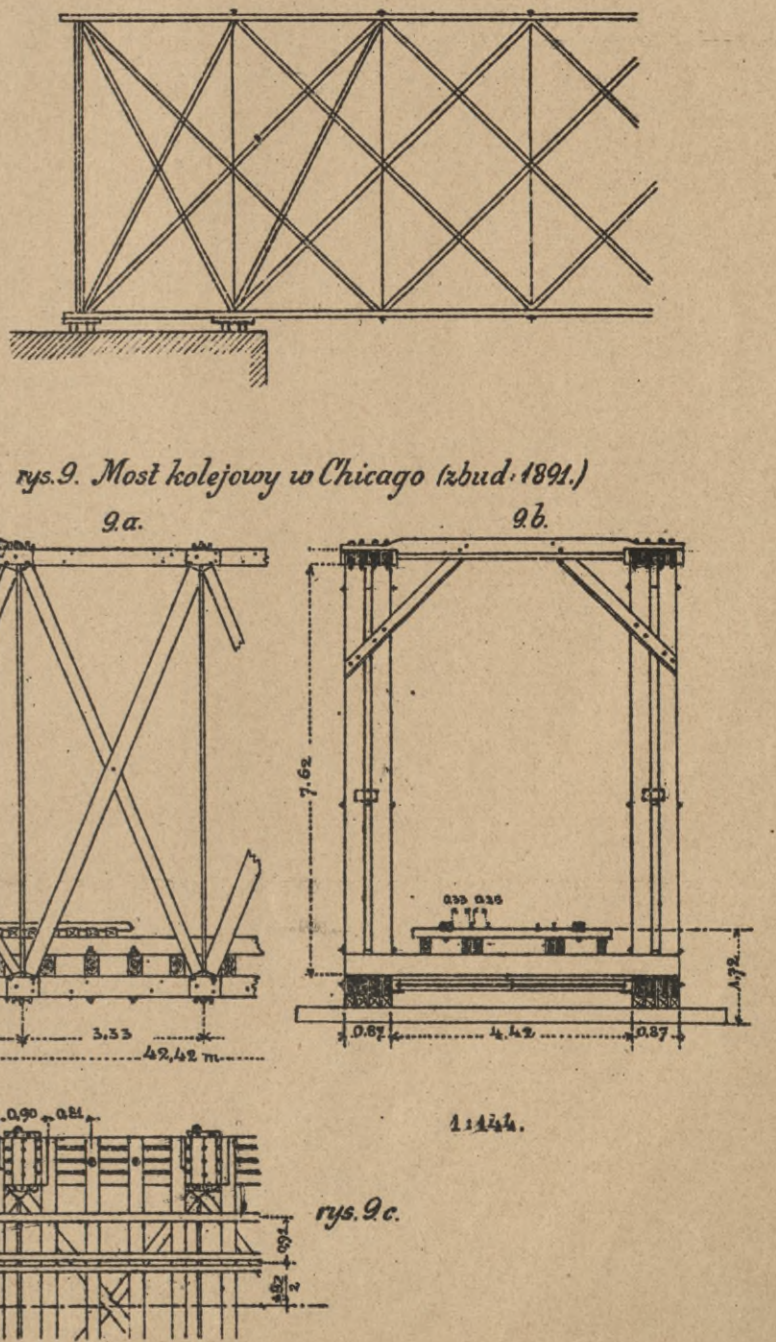
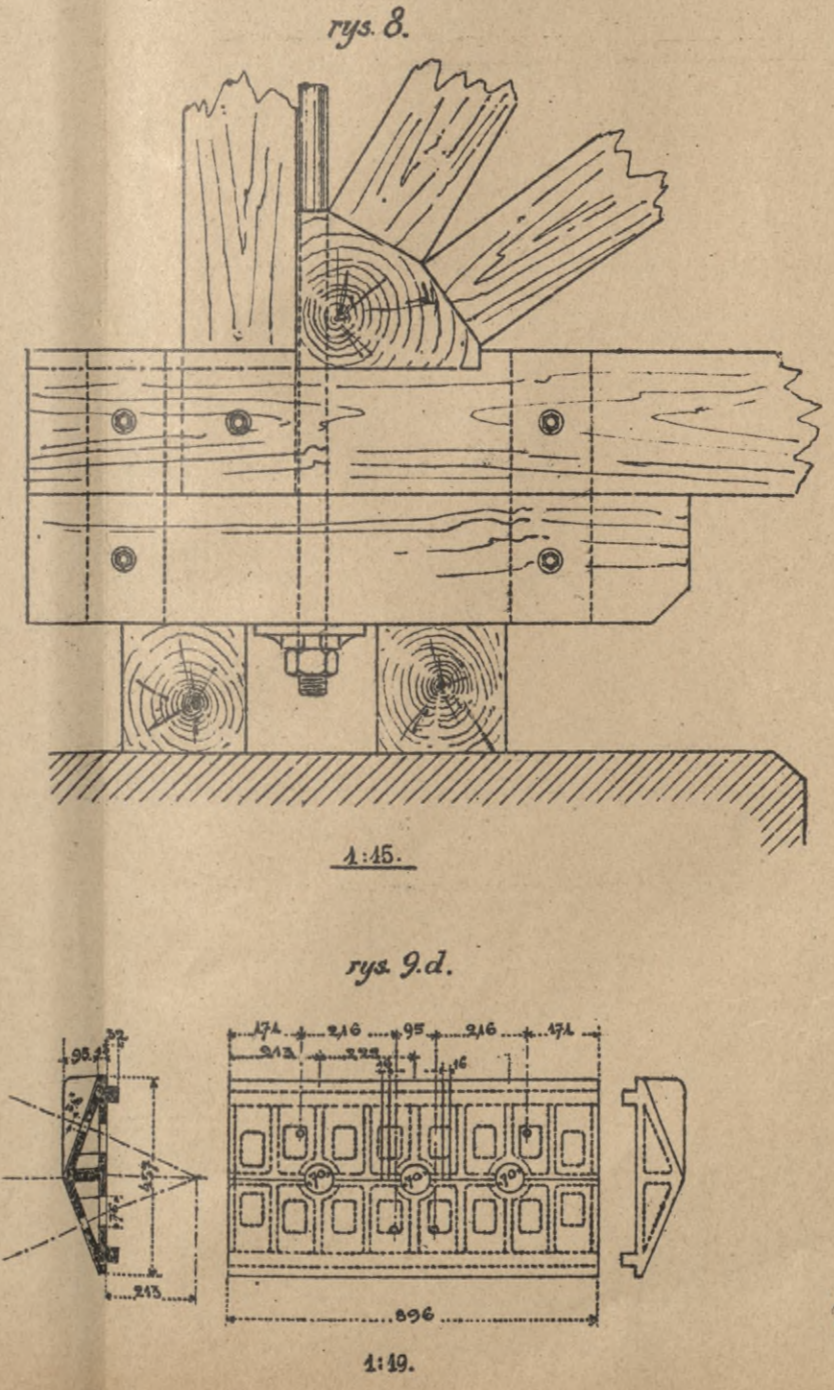
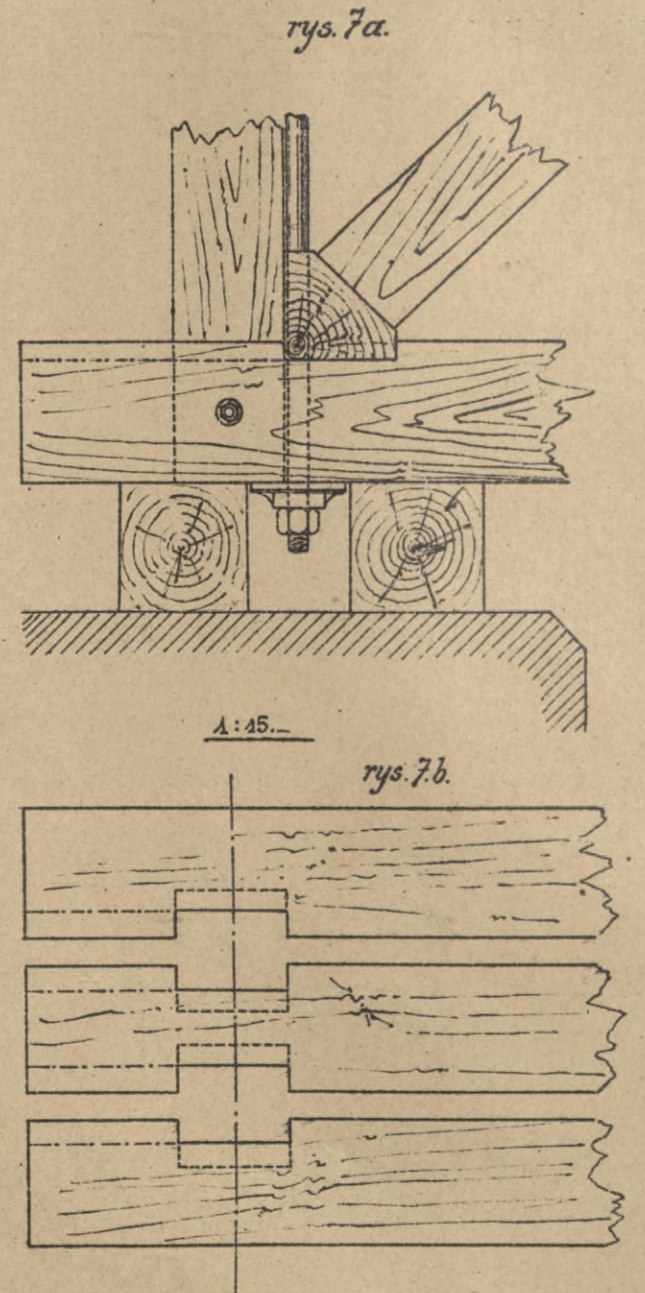
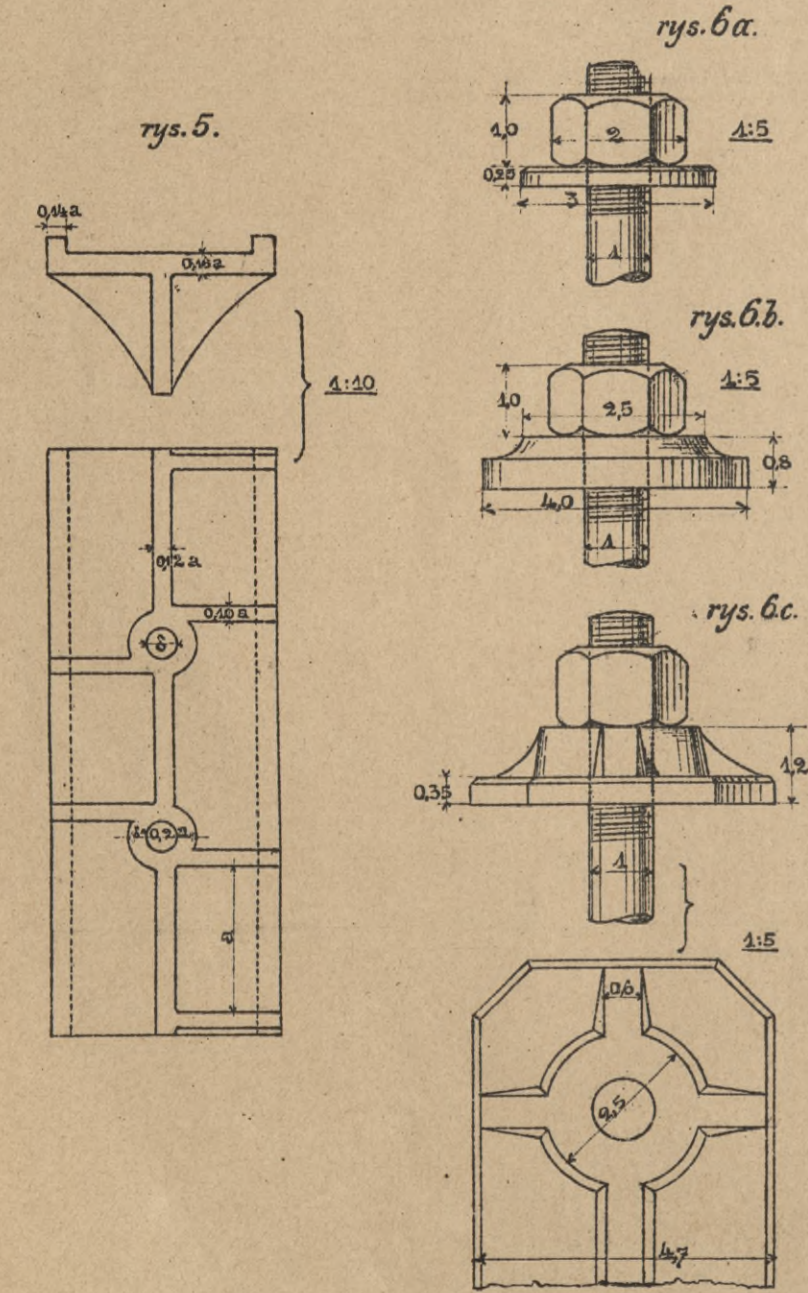
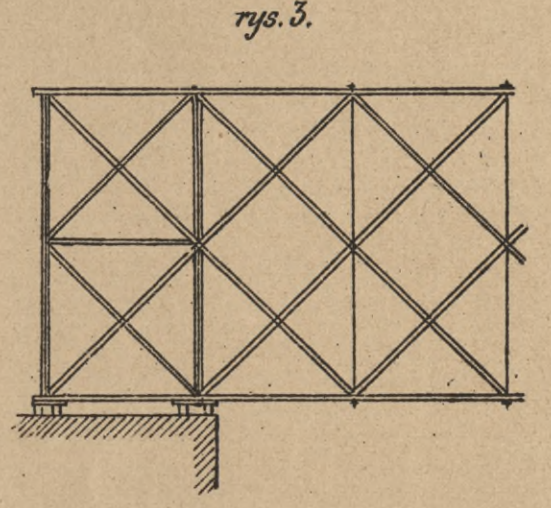
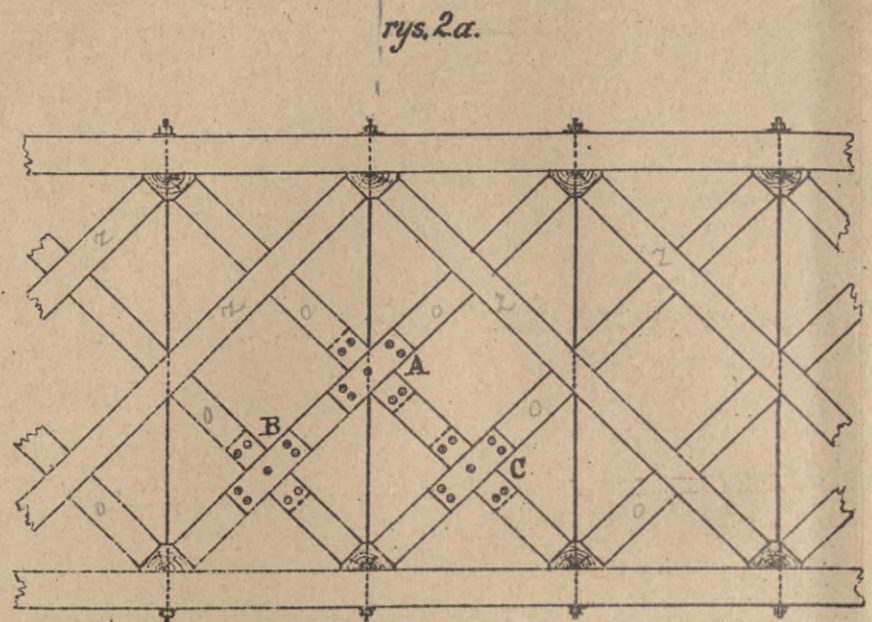
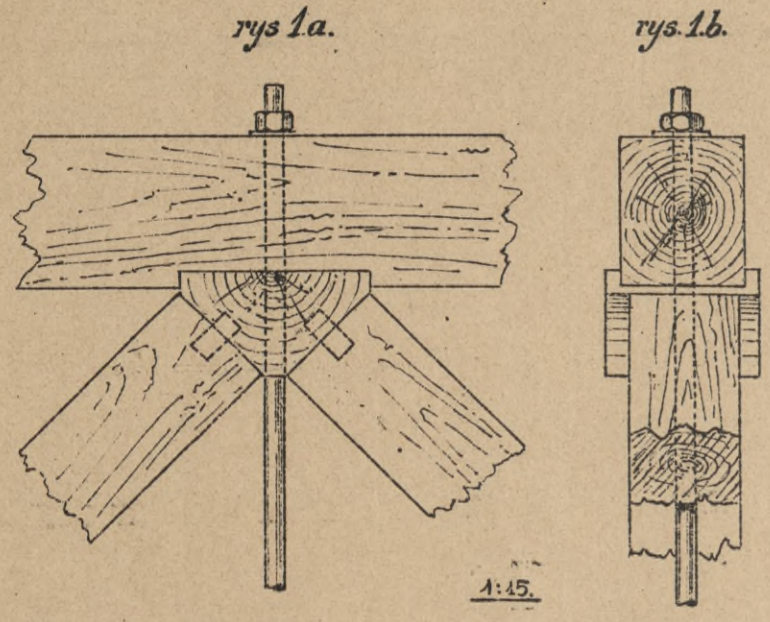


Rys. 1, Przekroj podłużny

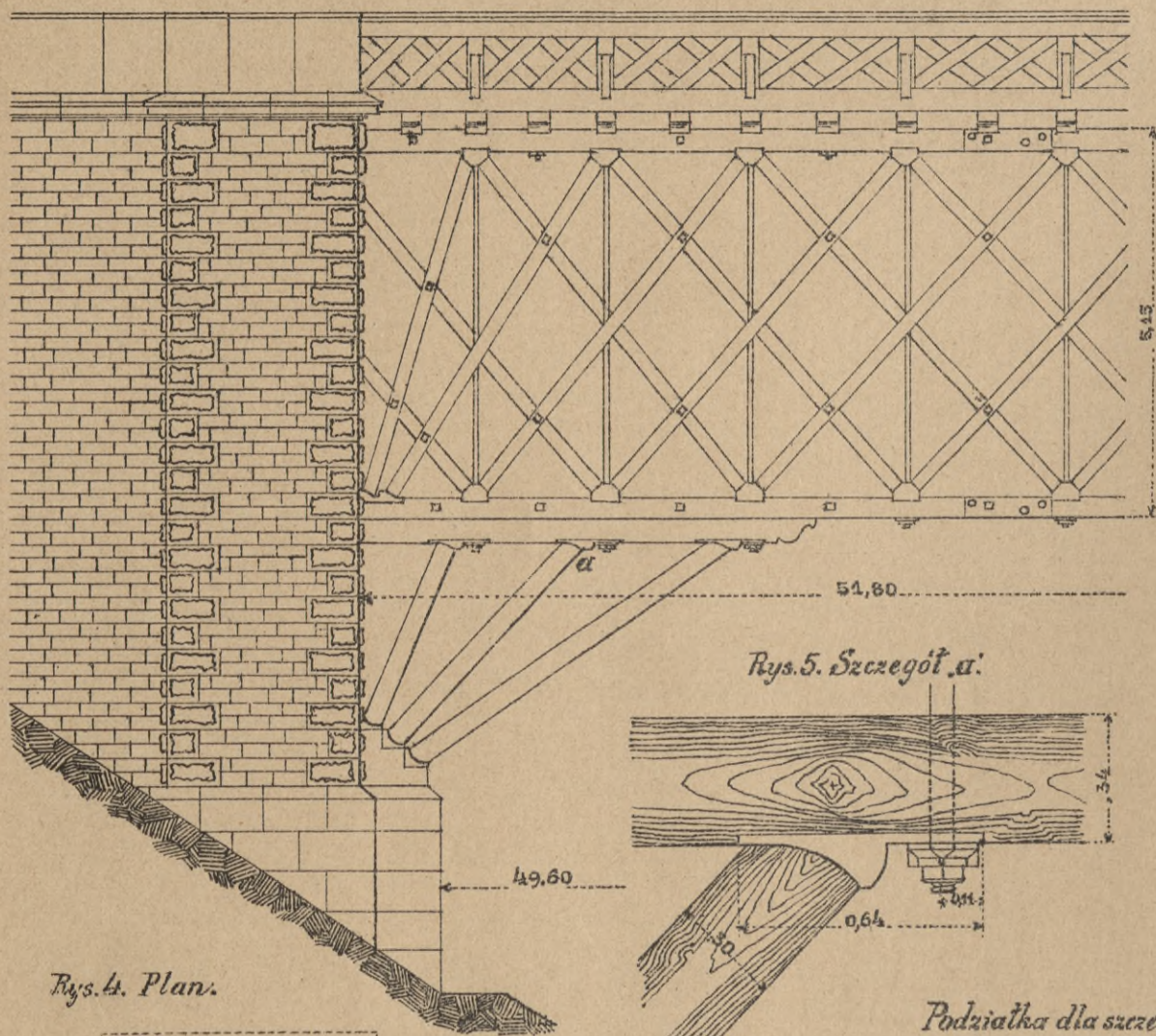


Rys. 3, Przekroj poprzeczny

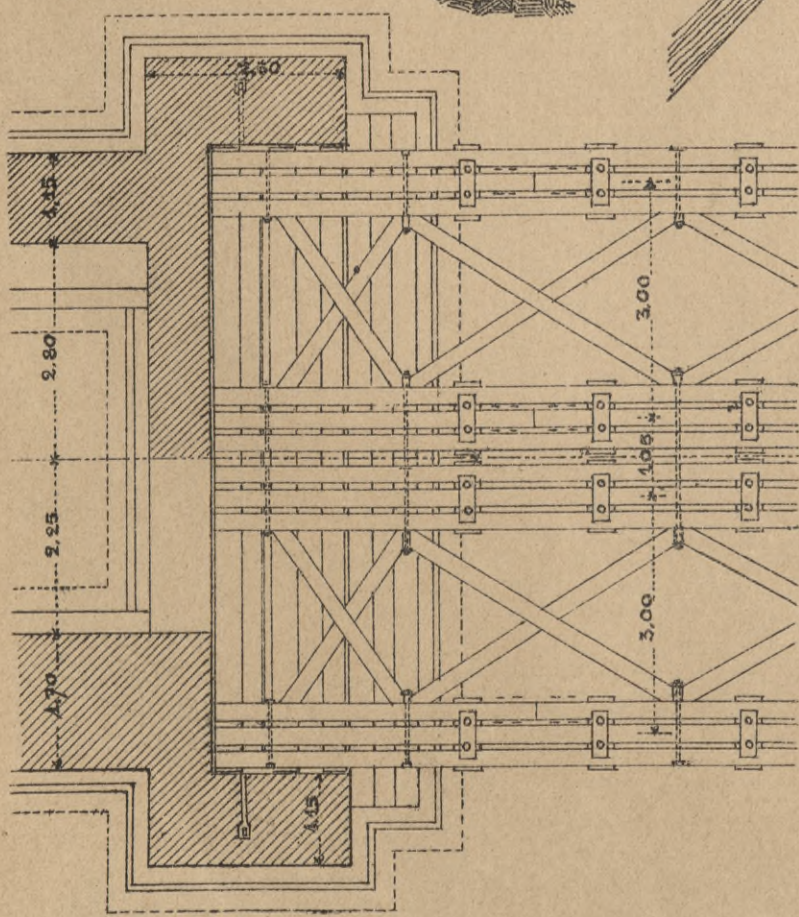
Skala: 1:25,



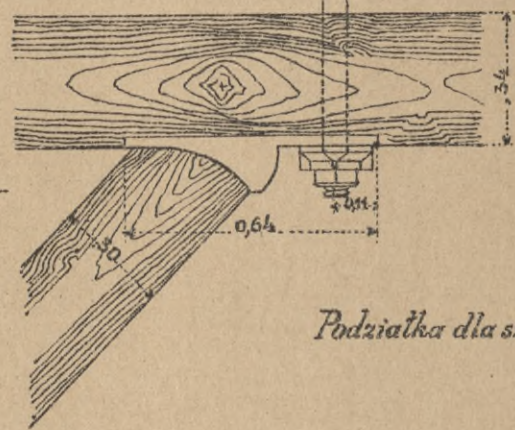
Rys. 1. Widok przyciółka i części przęsta.



Rys. 4. Plan.

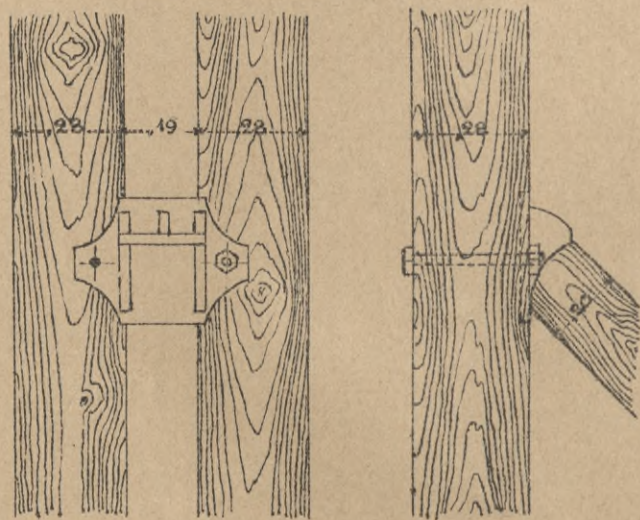


Rys. 5. Szczegół a.

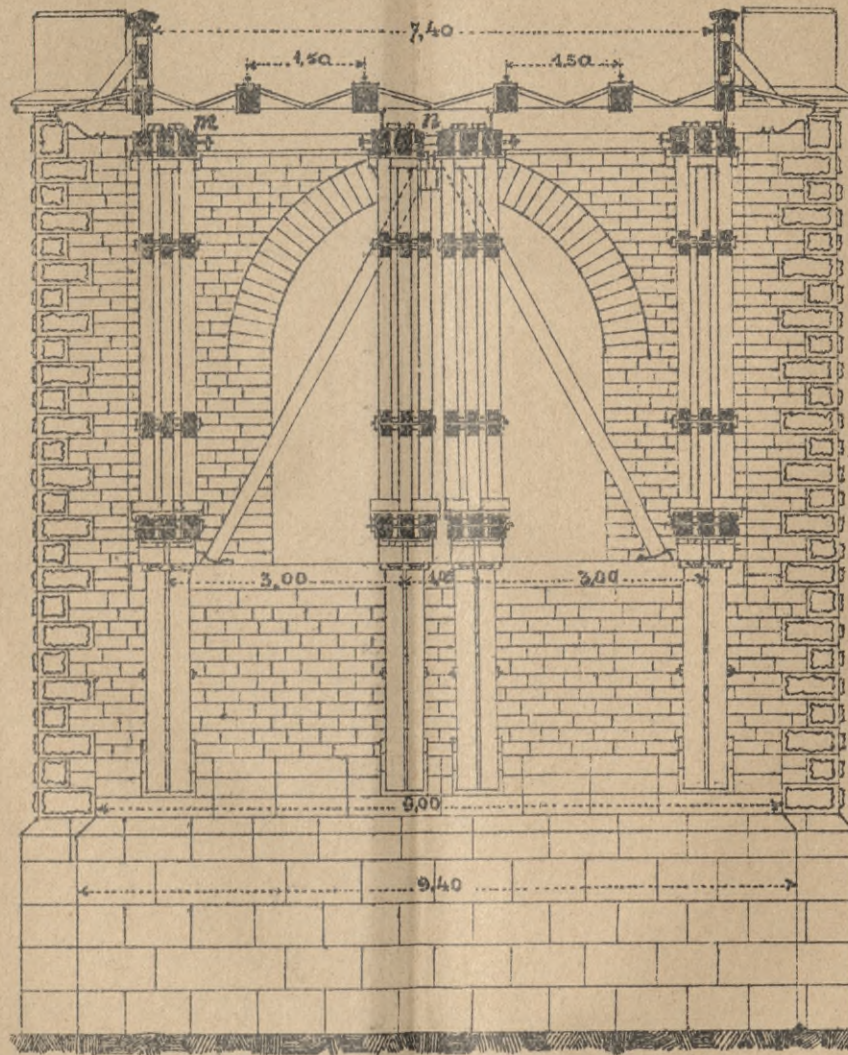


Podziałka dla szczegółów 1:20.

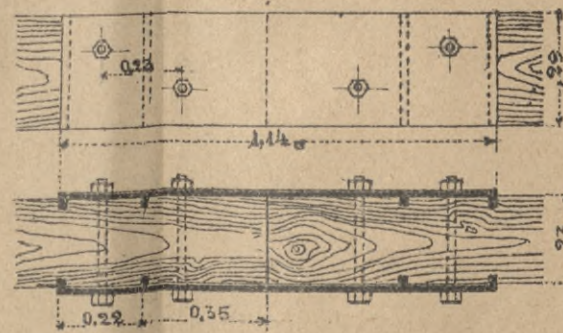
Rys. 6. Szczegół b.



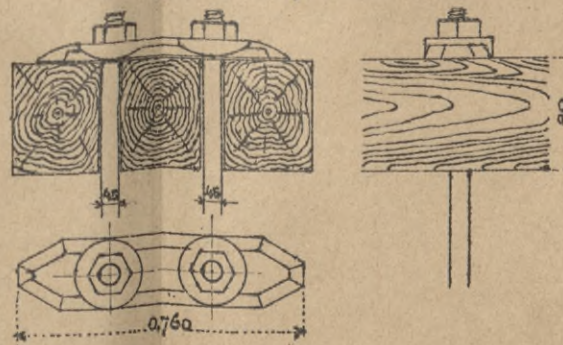
Rys. 2. Przekrój A-B.



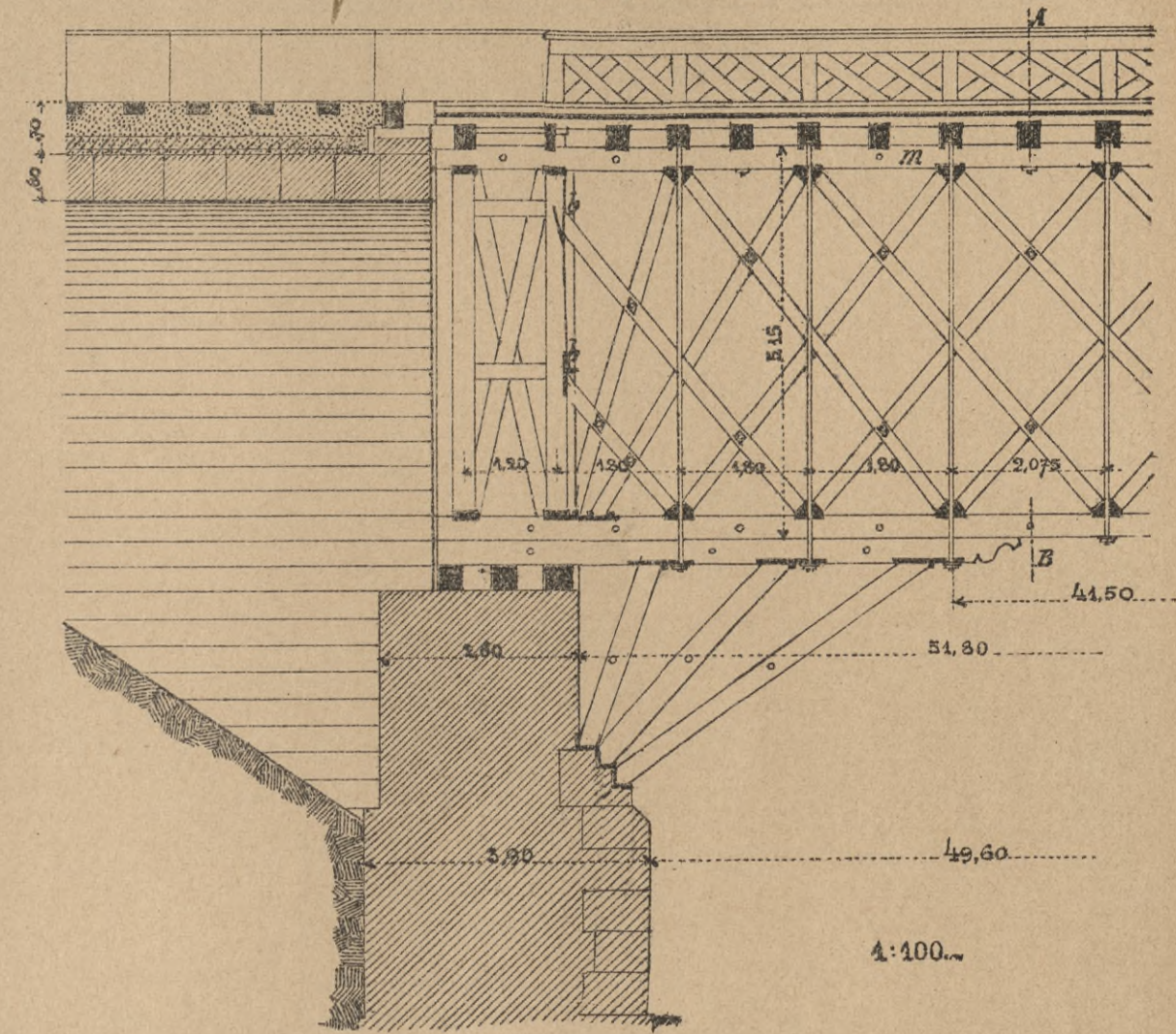
Rys. 7. Styki pasów.



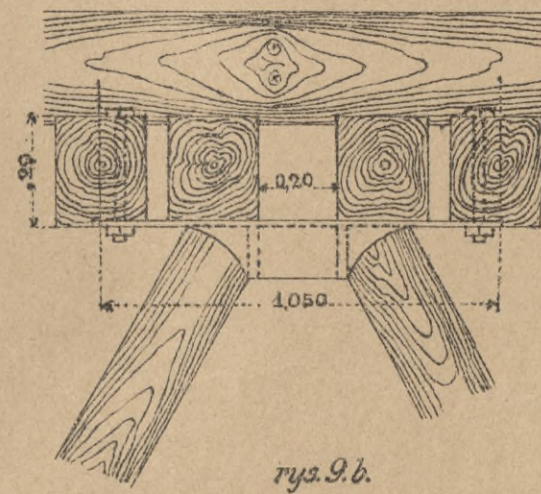
Rys. 8. Szczegół m.



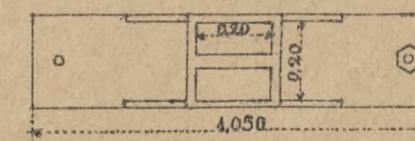
Rys. 3. Przekrój podłużny.



Rys. 9. Szczegół n (tężniki pionowe).

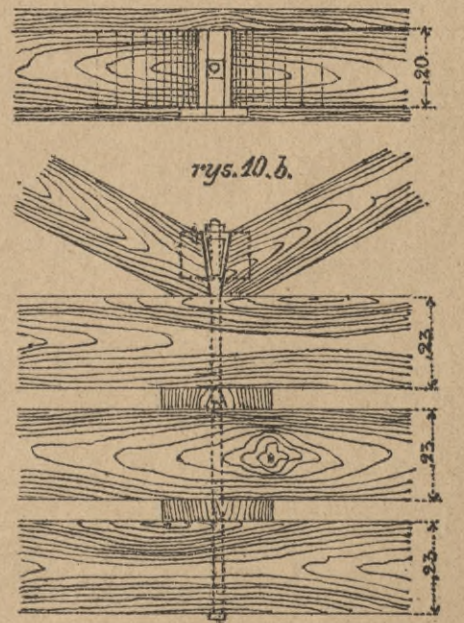


rys. 9. b.



1:20.

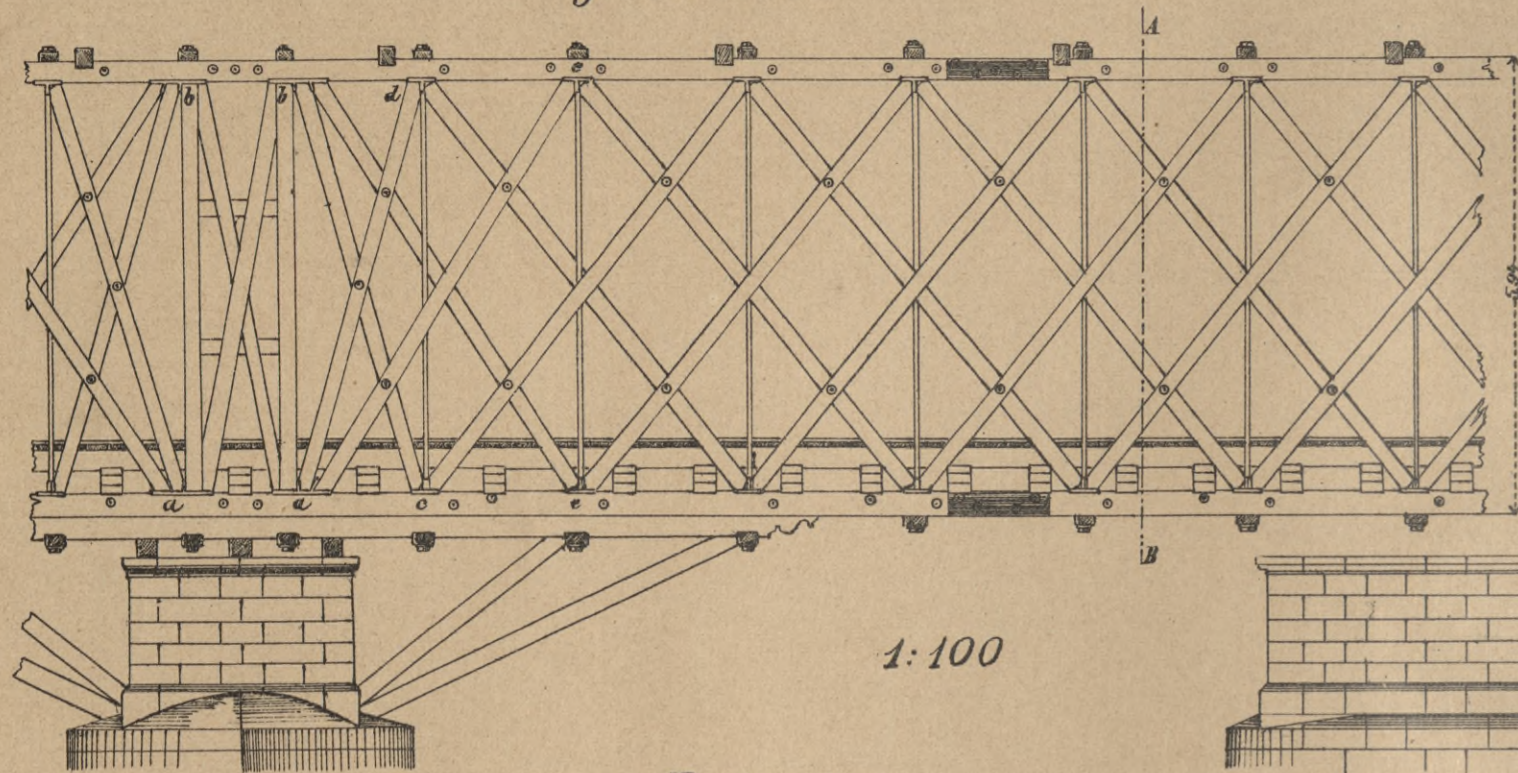
Rys. 10. Węzeł tężników poziomych.



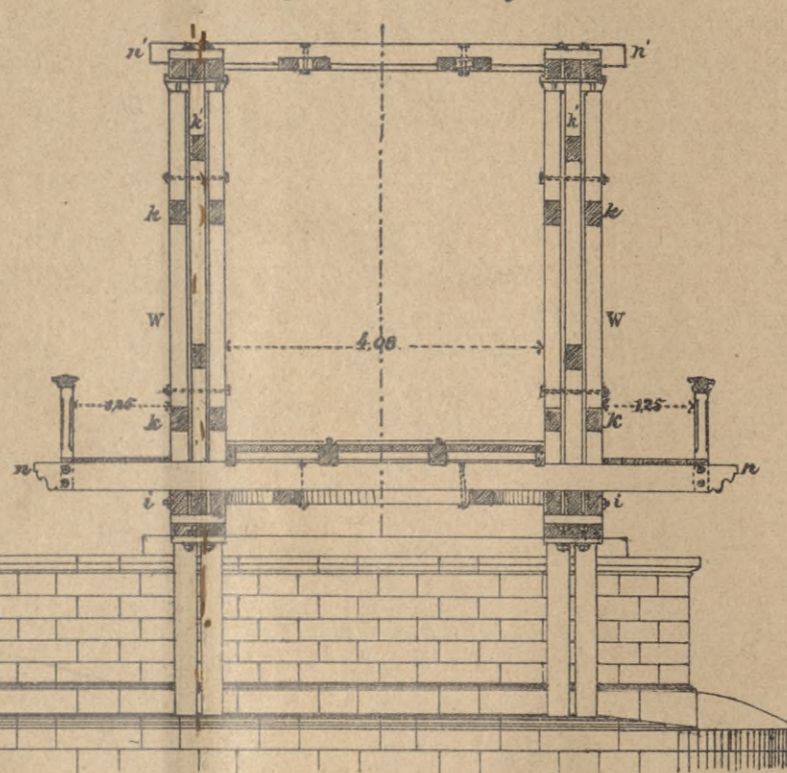
rys. 10. b.

Rys. 1. Most na Łabie pod Wittenbergiem

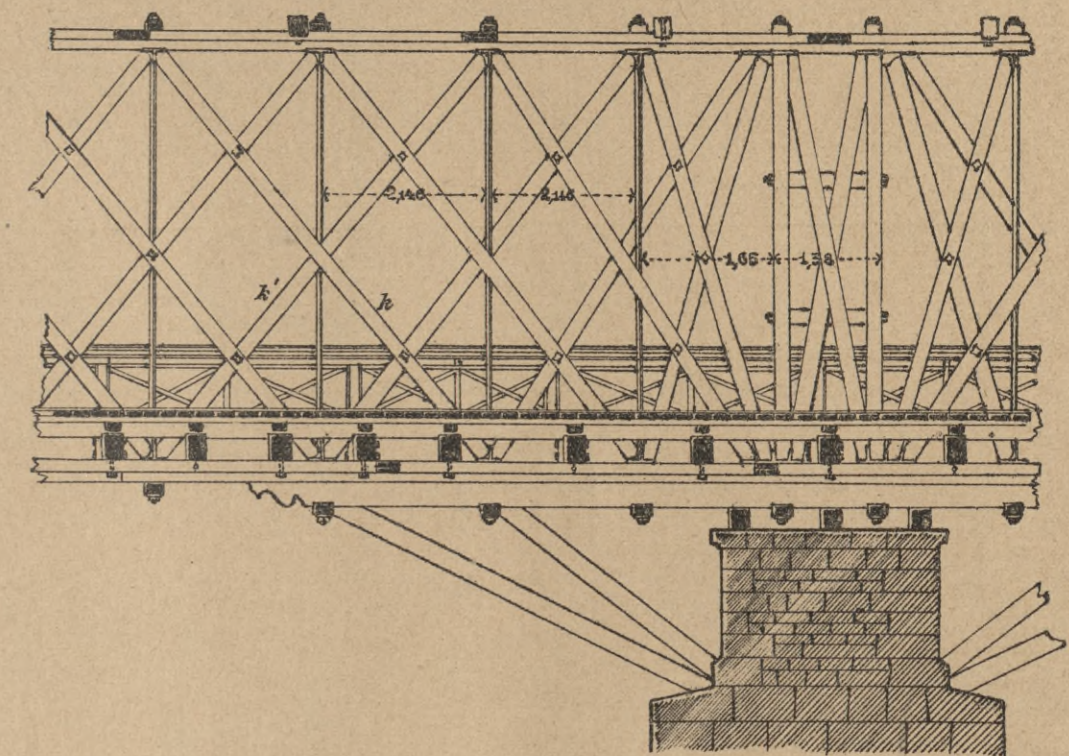
Rys. 1a. Widok



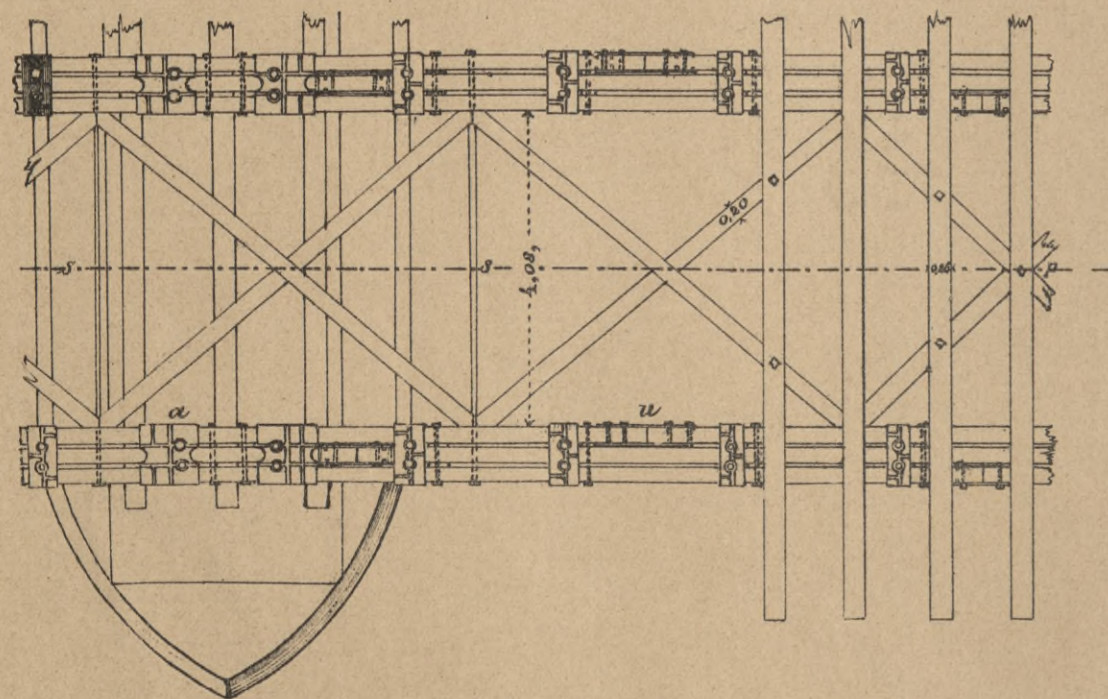
Rys. 1b. Przekrój A.B.



Rys. 1c. Przekrój podłużny.



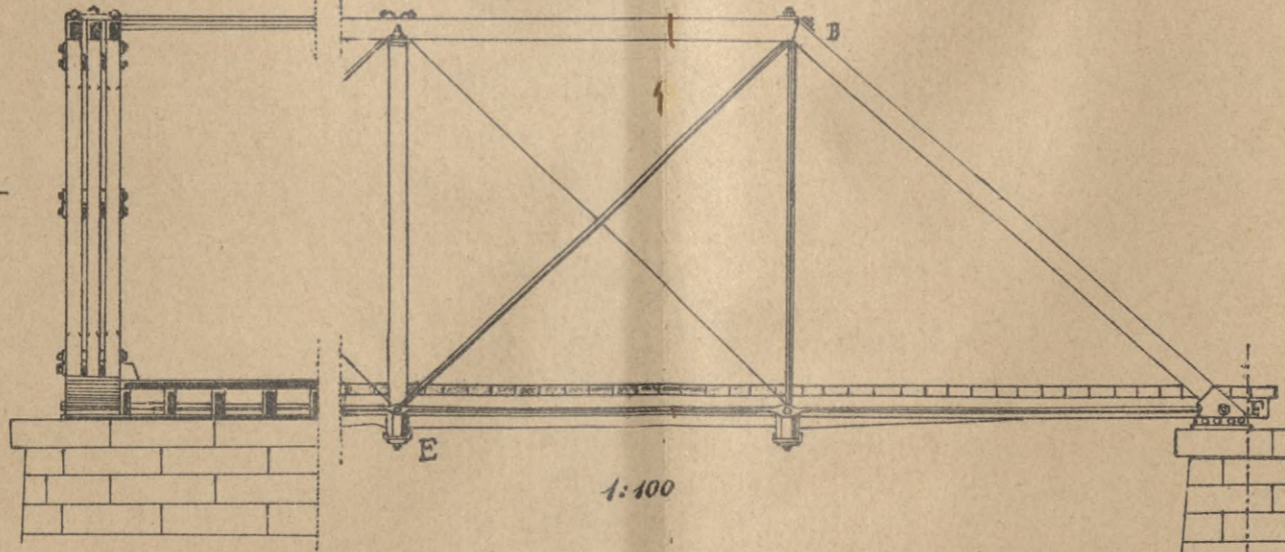
rys. 1d. Przekrój poziomy



Rys. 3. Most drogowy amerykański układu Murphy Whipplego.

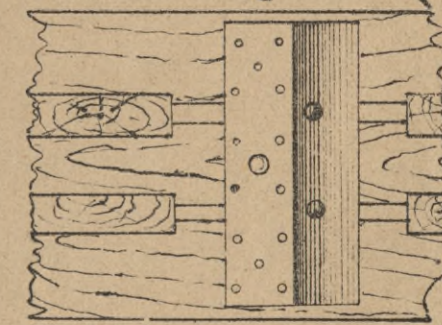
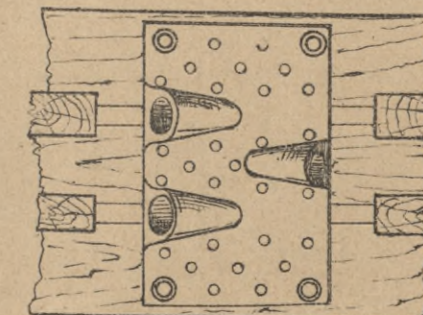
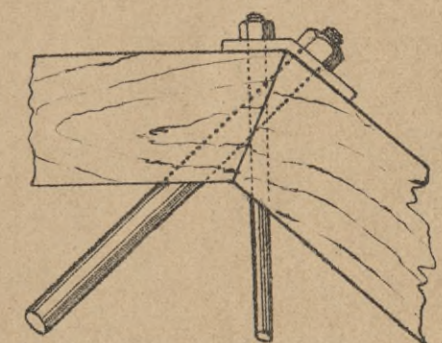
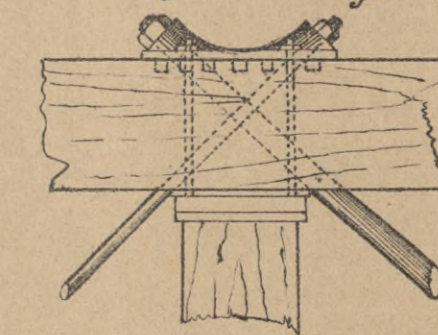
rys. 3a. Przekrój

rys. 3b. Widok

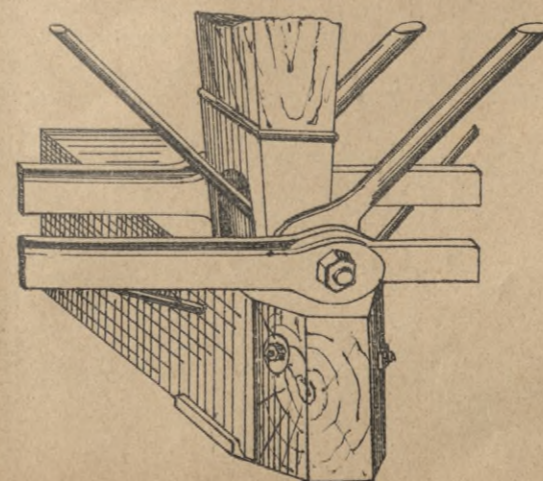


rys. 3c. Szczyt A

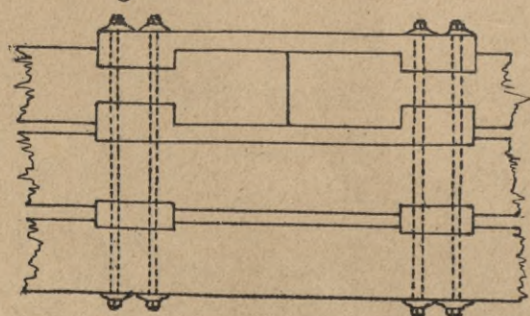
rys. 3d. Szczyt B



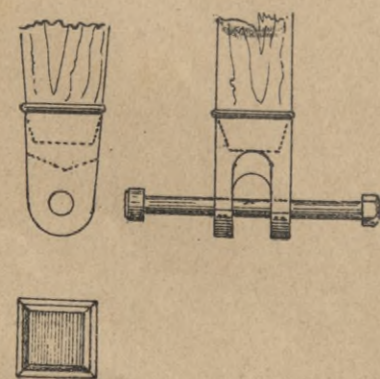
rys. 3e. Szczyt E



rys. 2. Łubki drewniane przy amerykańskich mostach Howe'a,



rys. 3c.

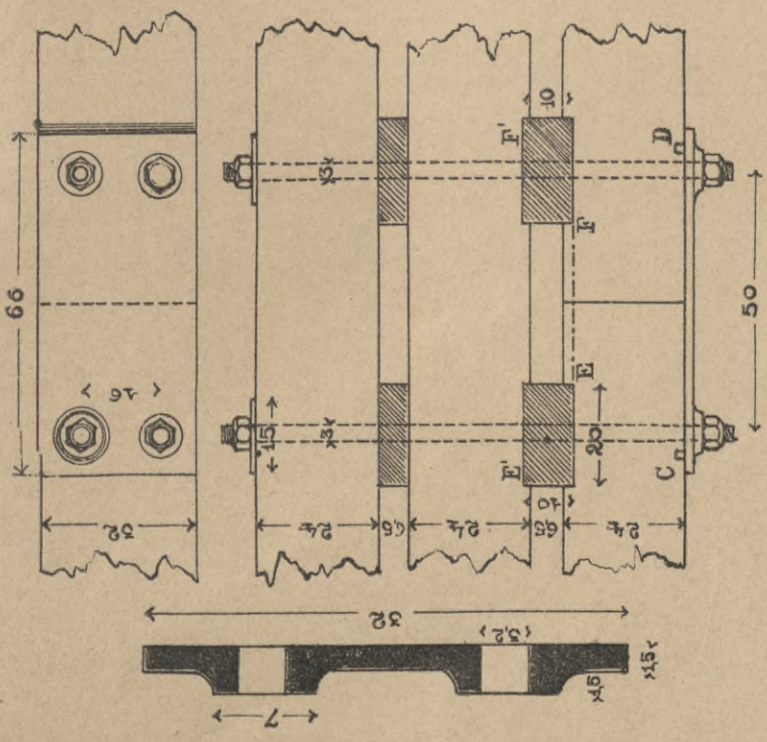


rys. 4. Most na Wiarce pod Przemysłem. Przekrój

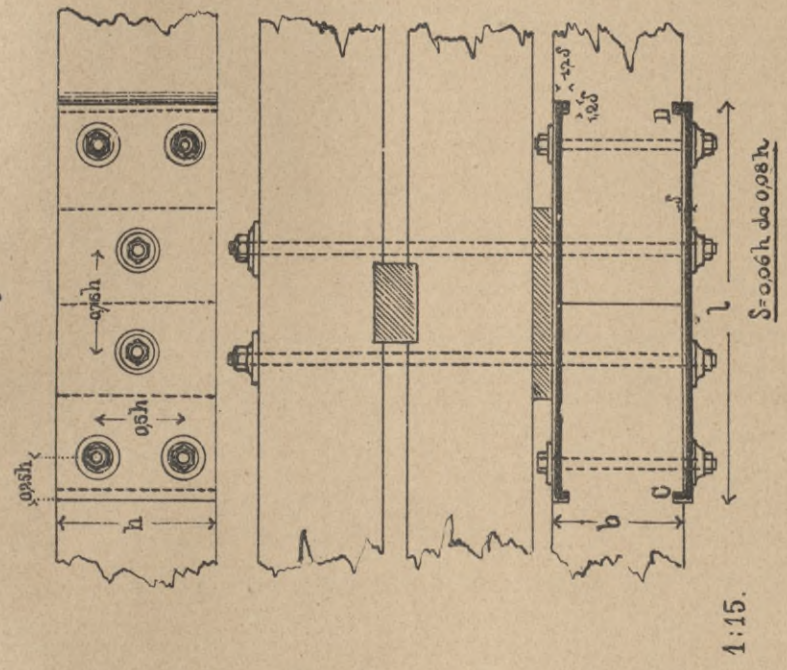


ZETKNIĘCIA PASU.

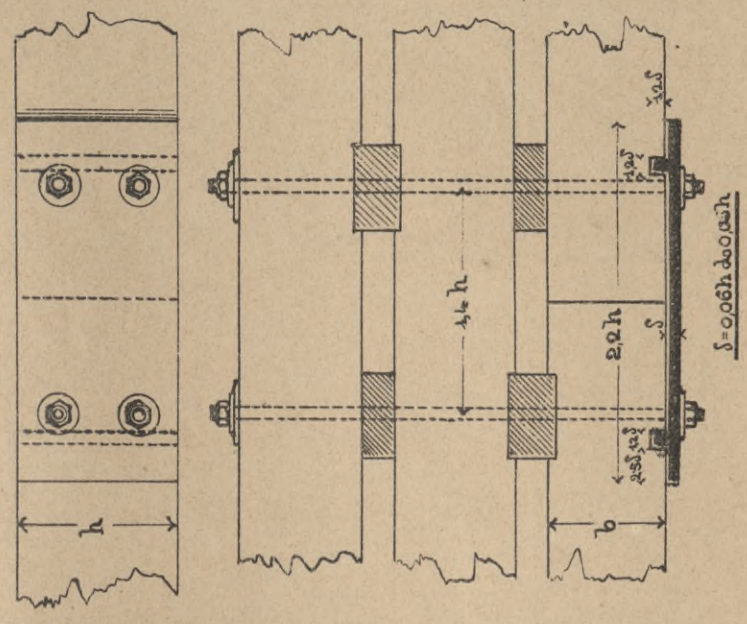
rys. 1.



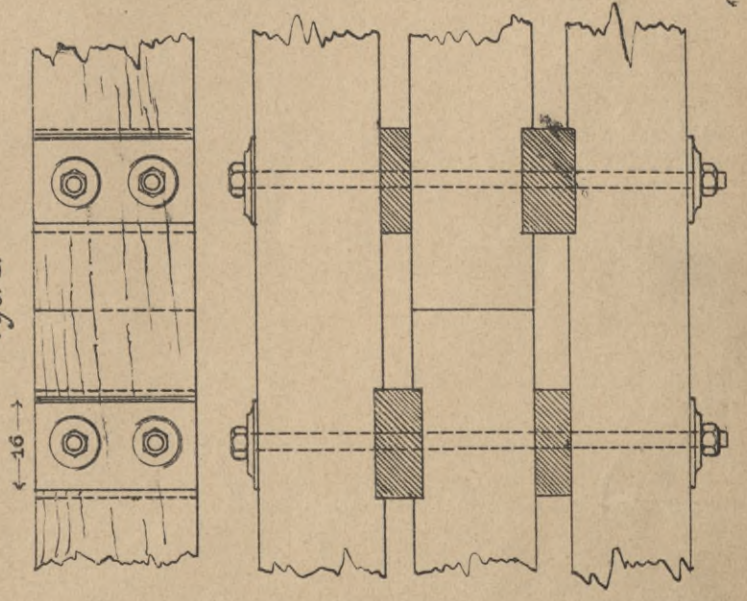
rys. 2.



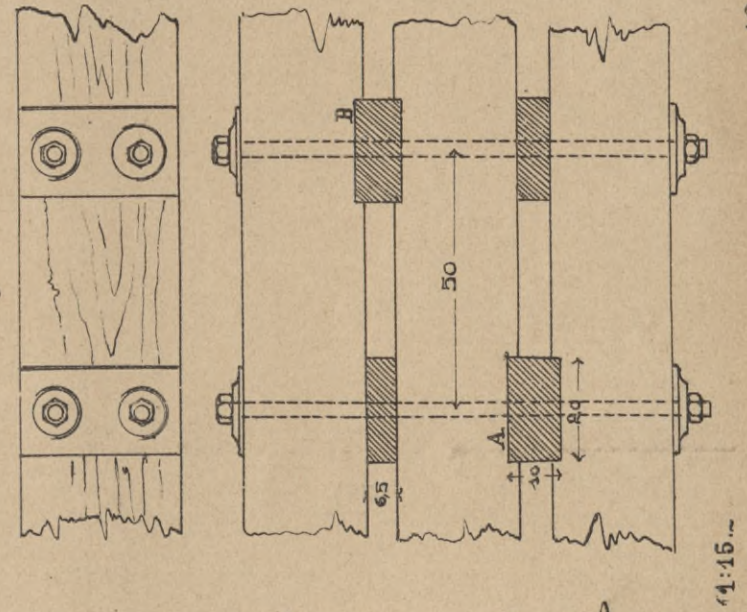
rys. 3.



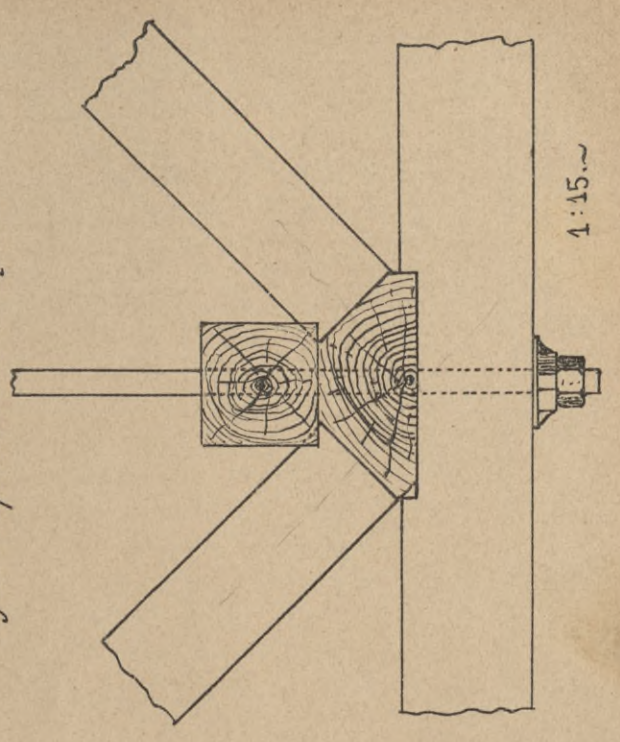
rys. 4.



rys. 5.

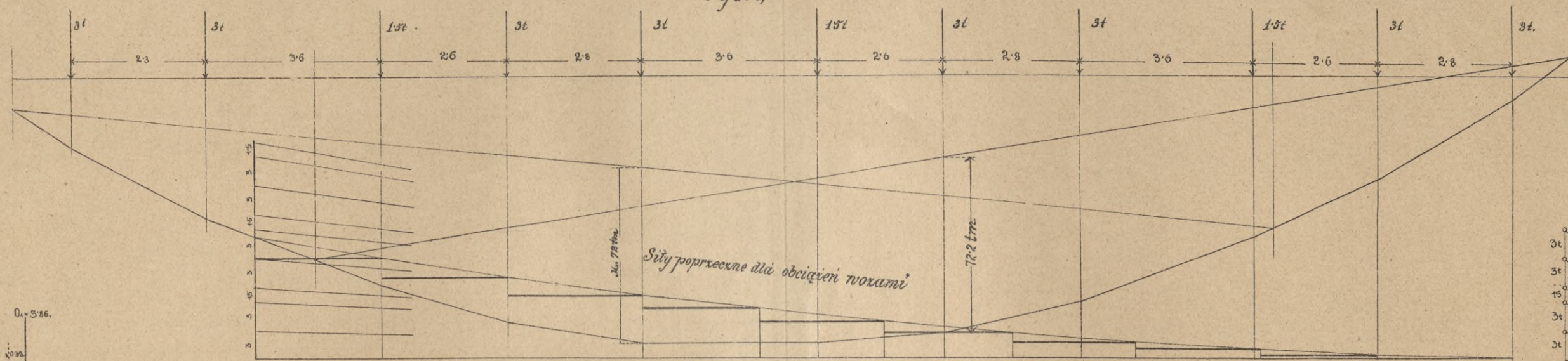


rys. 6. Poprzecznicą w węzle...



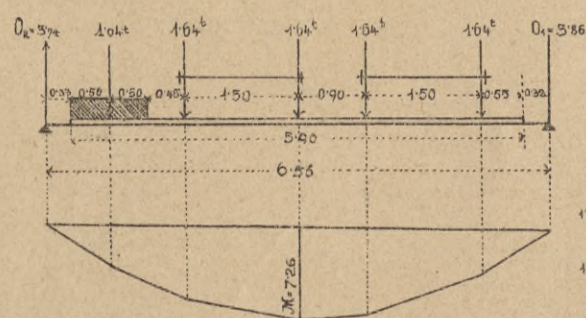
OBLICZENIE BELKI PINTOWSKIEGO

rys. 1

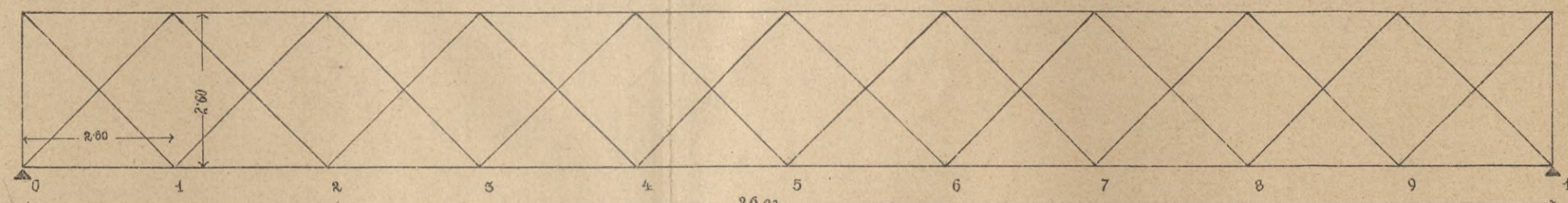


Poprzecznica.

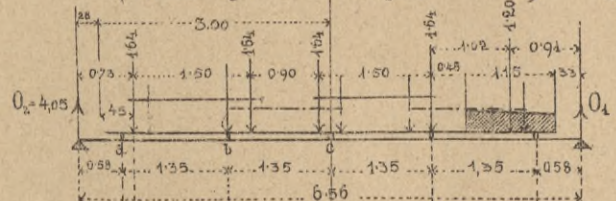
rys. 2. Momenty.



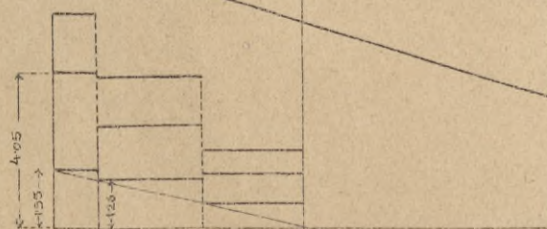
rys. 2



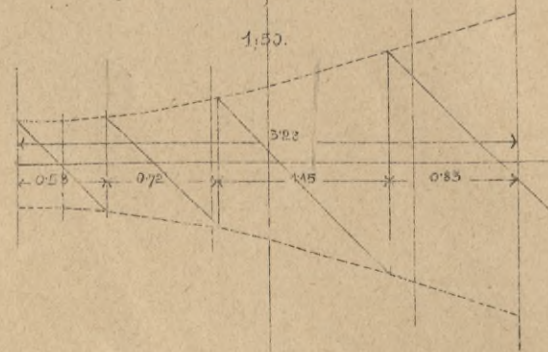
Sily poprzeczne.
(Wklad ciężarów dla a, dla b)



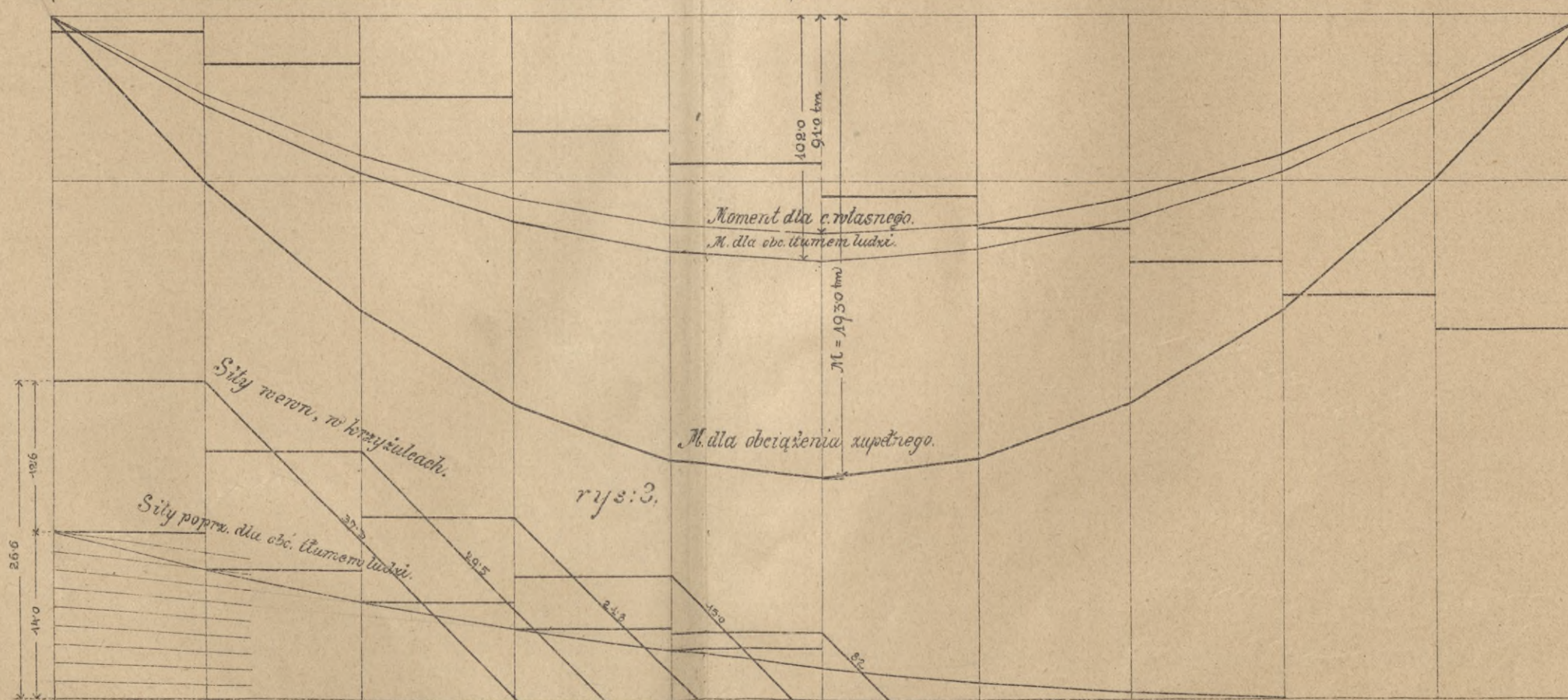
rys. 5.



rys. 6. Rozkład klinowy.

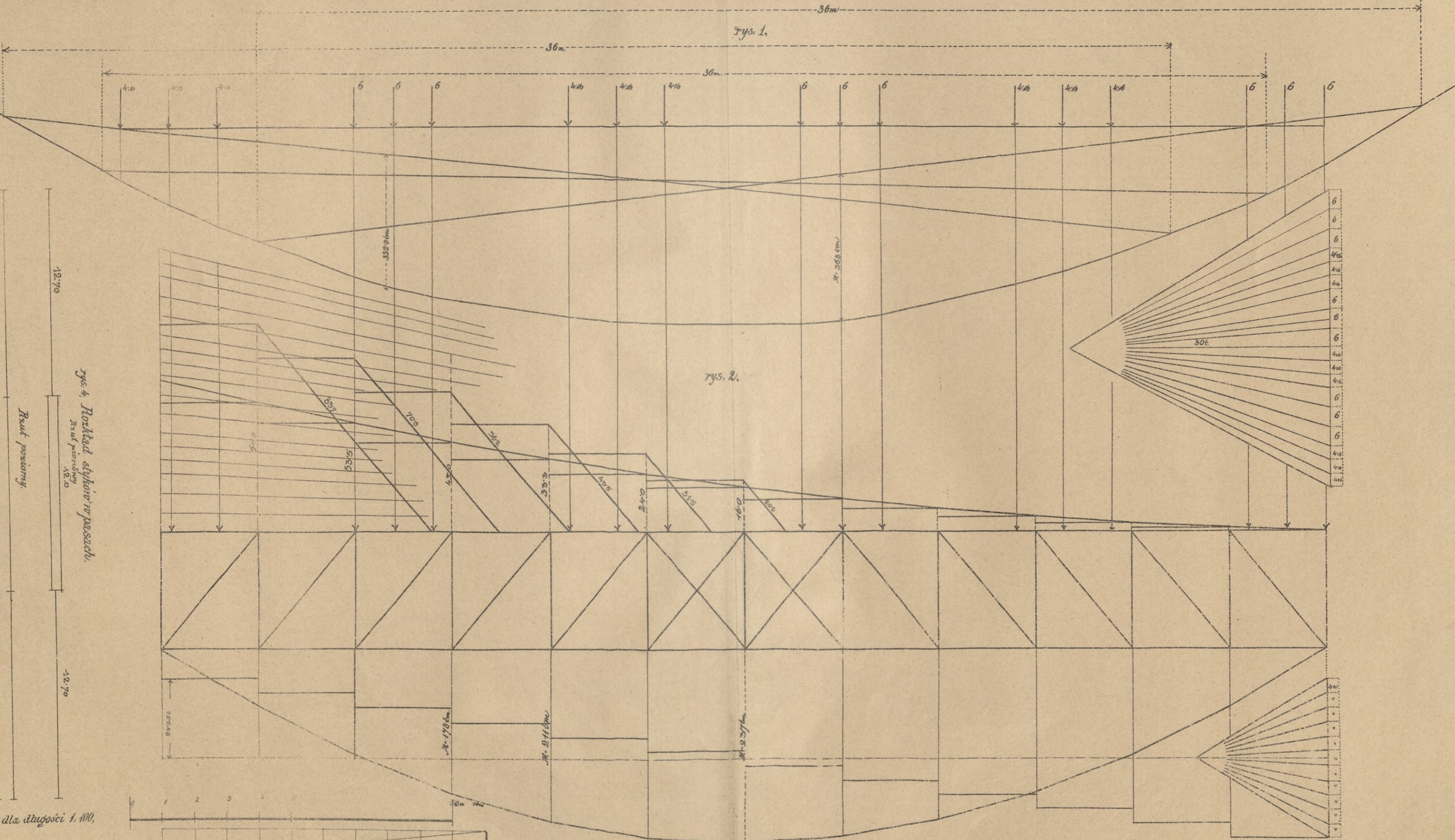


rys. 3

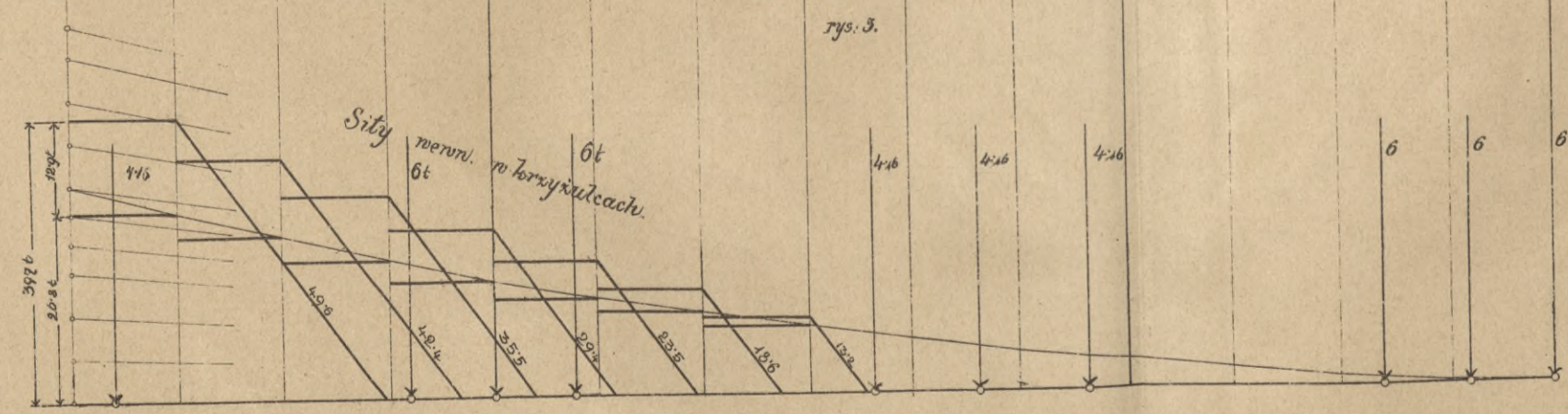
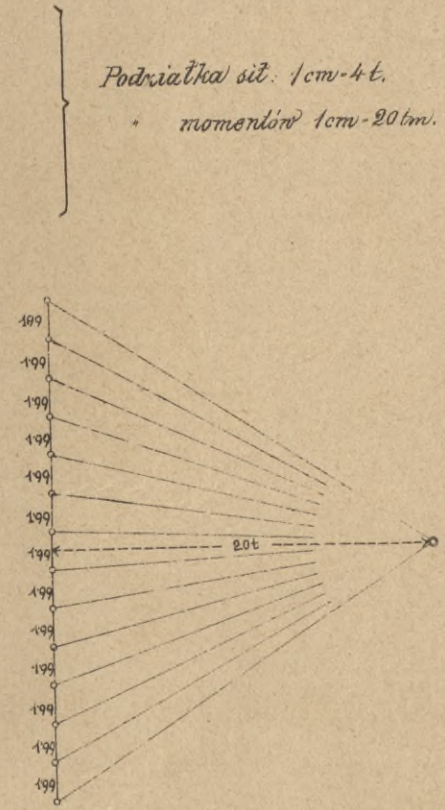
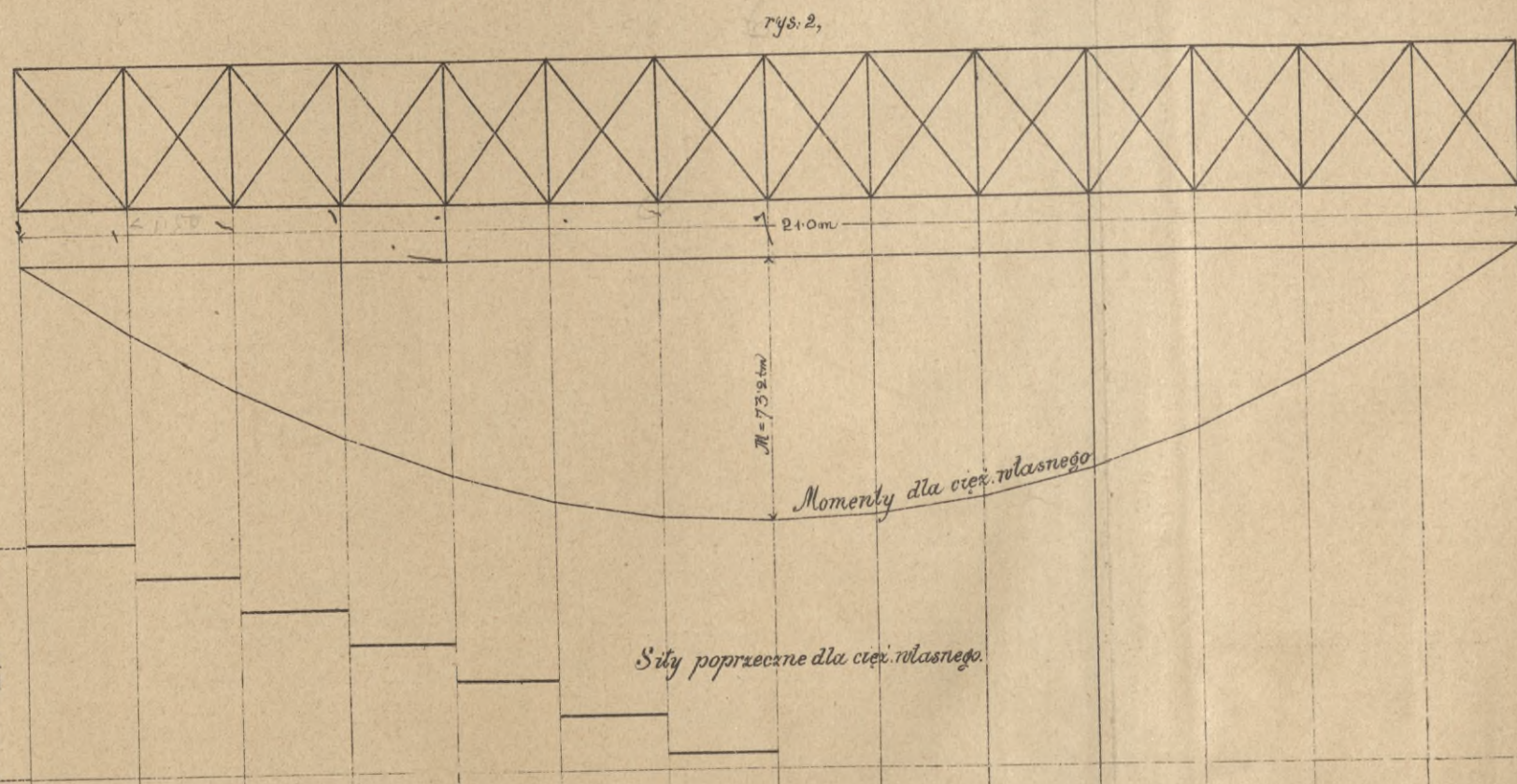
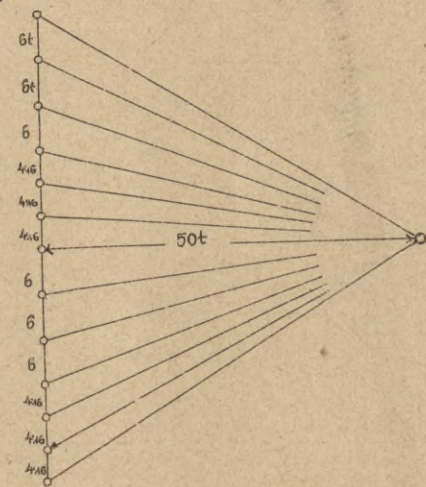
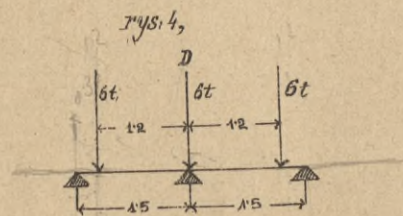
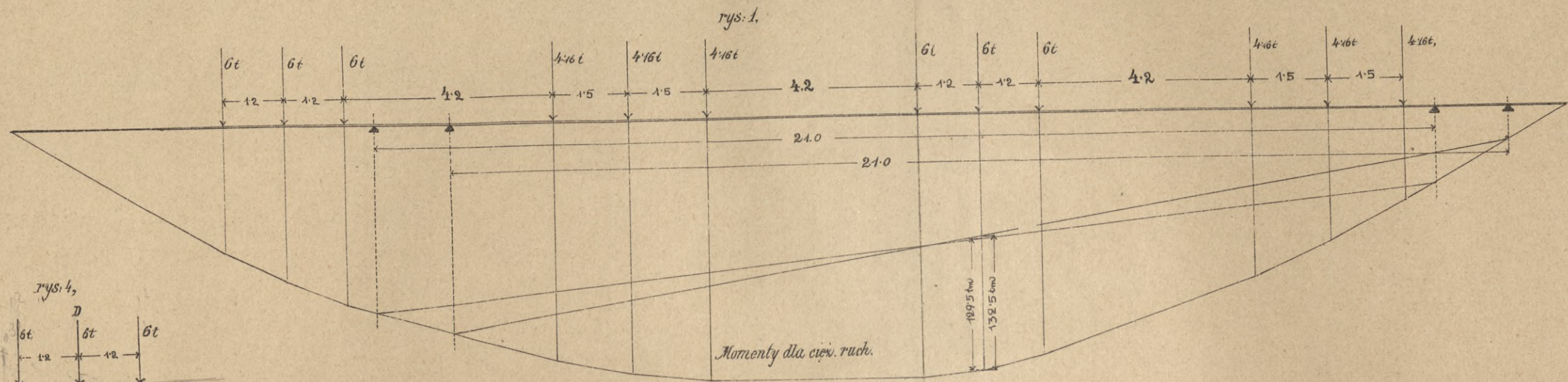


Skala:

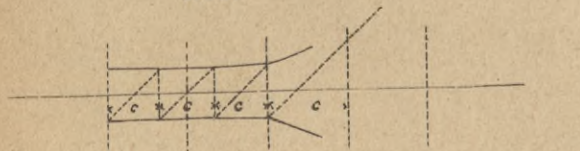




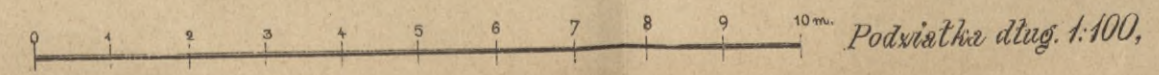
OBLICZENIE BELKI HOWEA



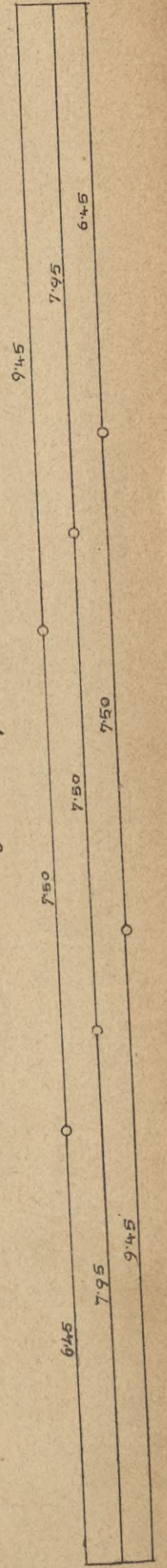
rys. 5.
Rozkład linonów
w poprzeczniicy
1:50.



Podziałka sił: 1cm = 10t



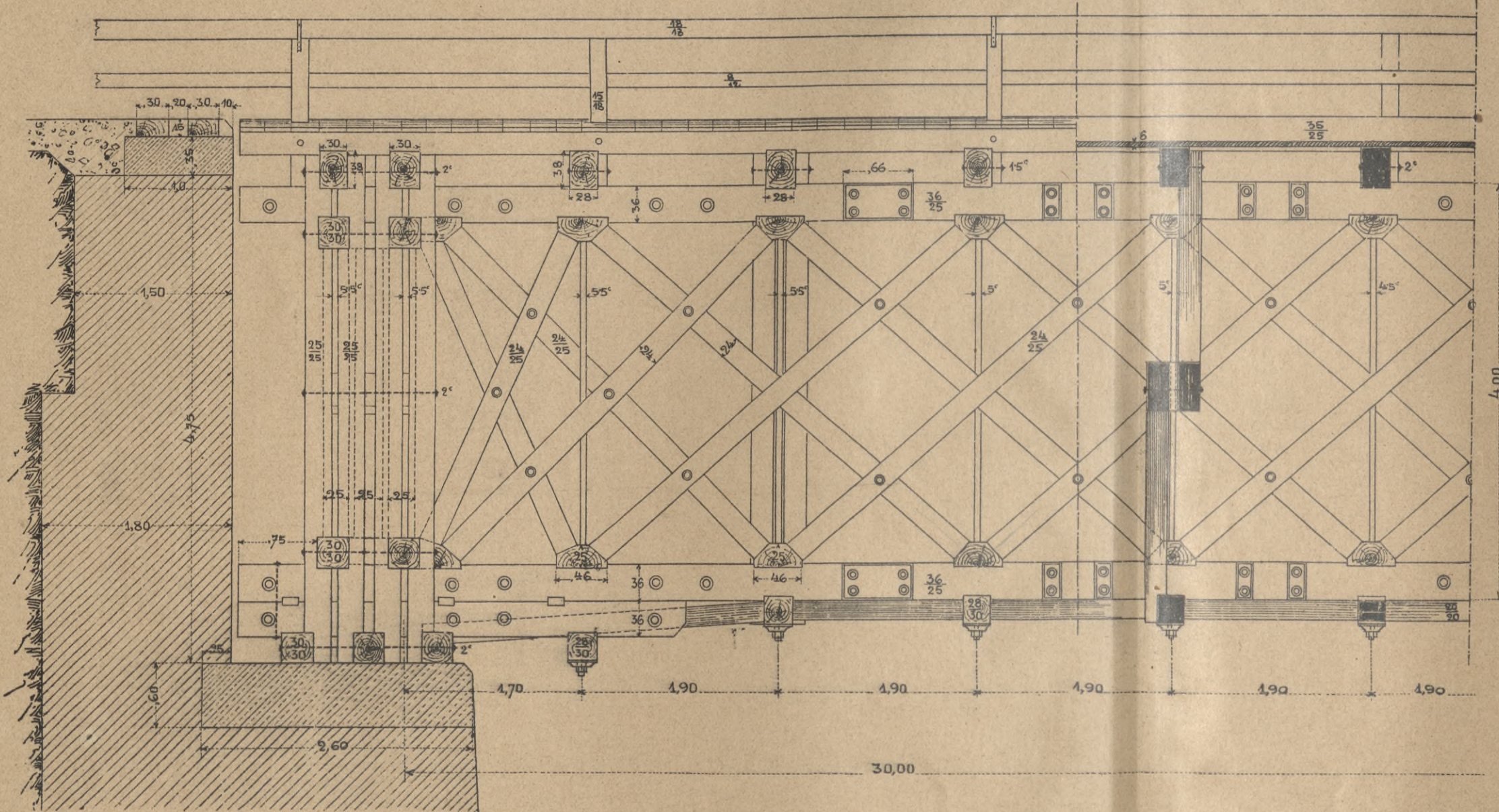
rys. 6.
Rozkład styków w pasach



o pomoście górą, a rozpiętości 30,0 m.

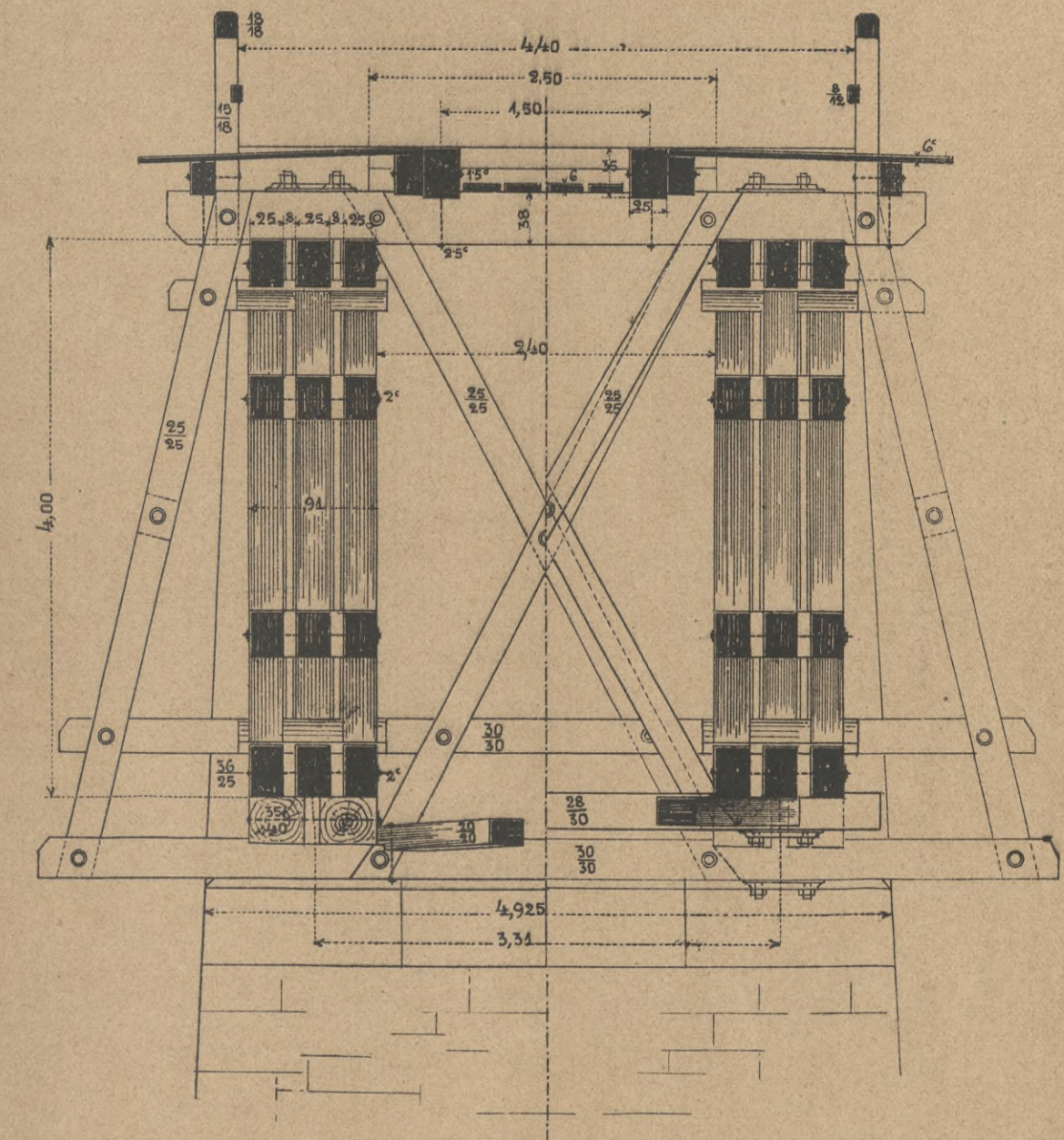
Rys 1a. Widok.

Rys 1b. Przekrój podłużny.

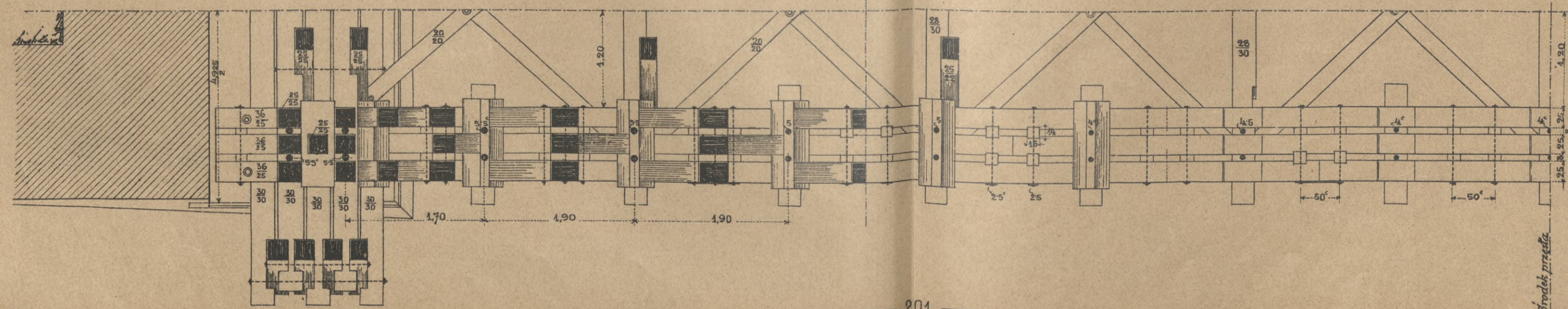


1:50~

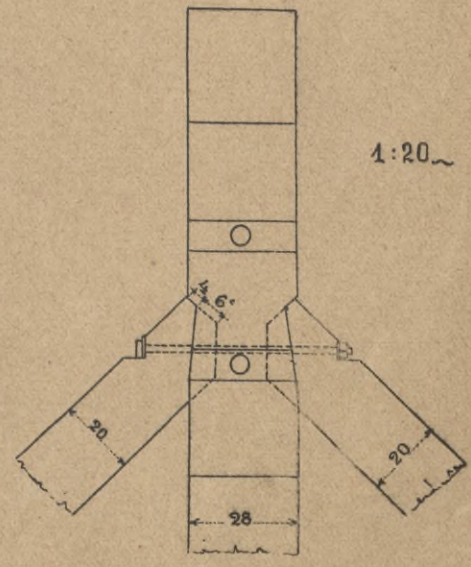
rys.3. Przekrój
a) przy przyczółku b) środkowy.



Rys 2. Przekrój poziomy.



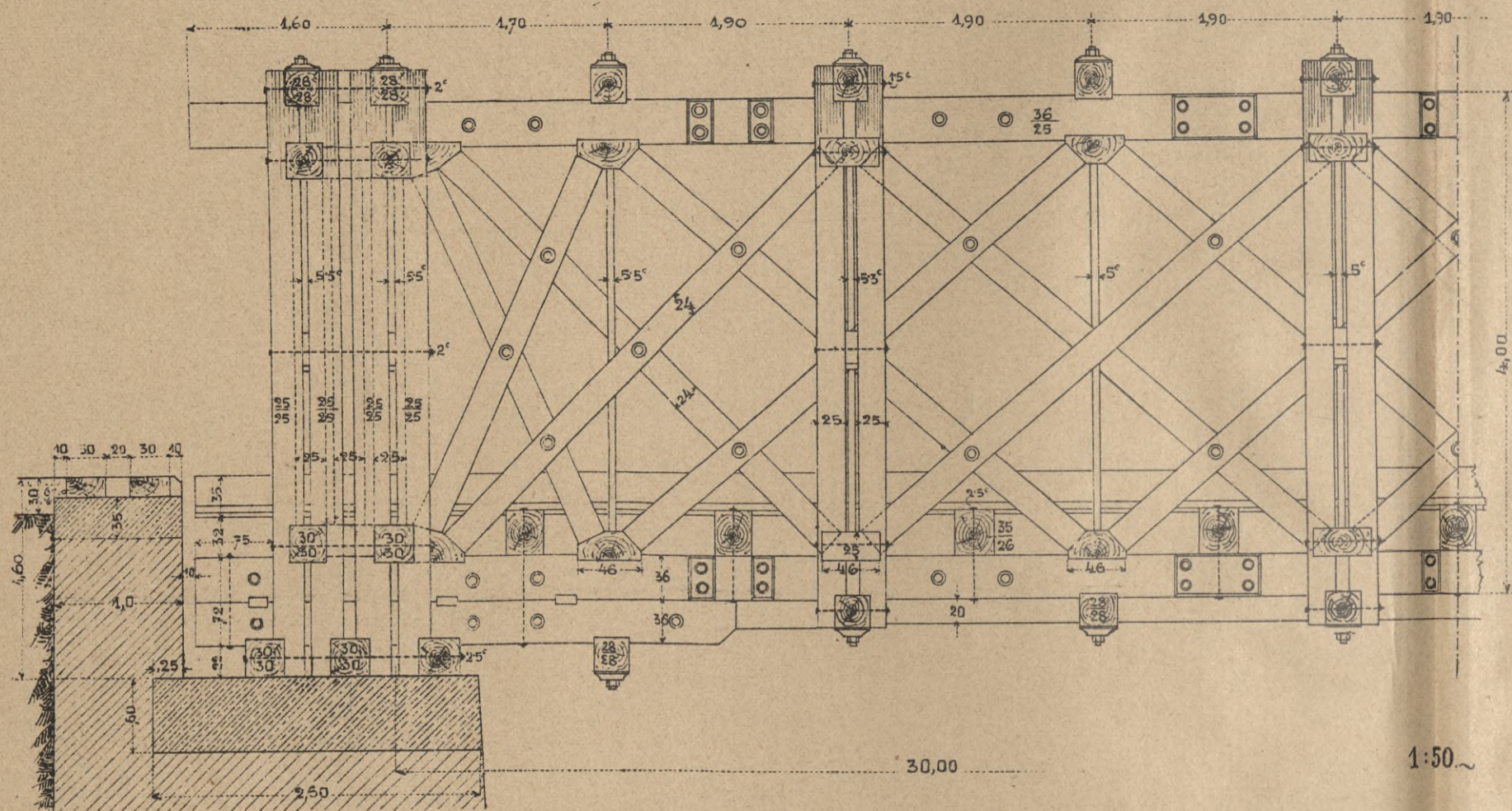
rys.4. Techniki poziome..



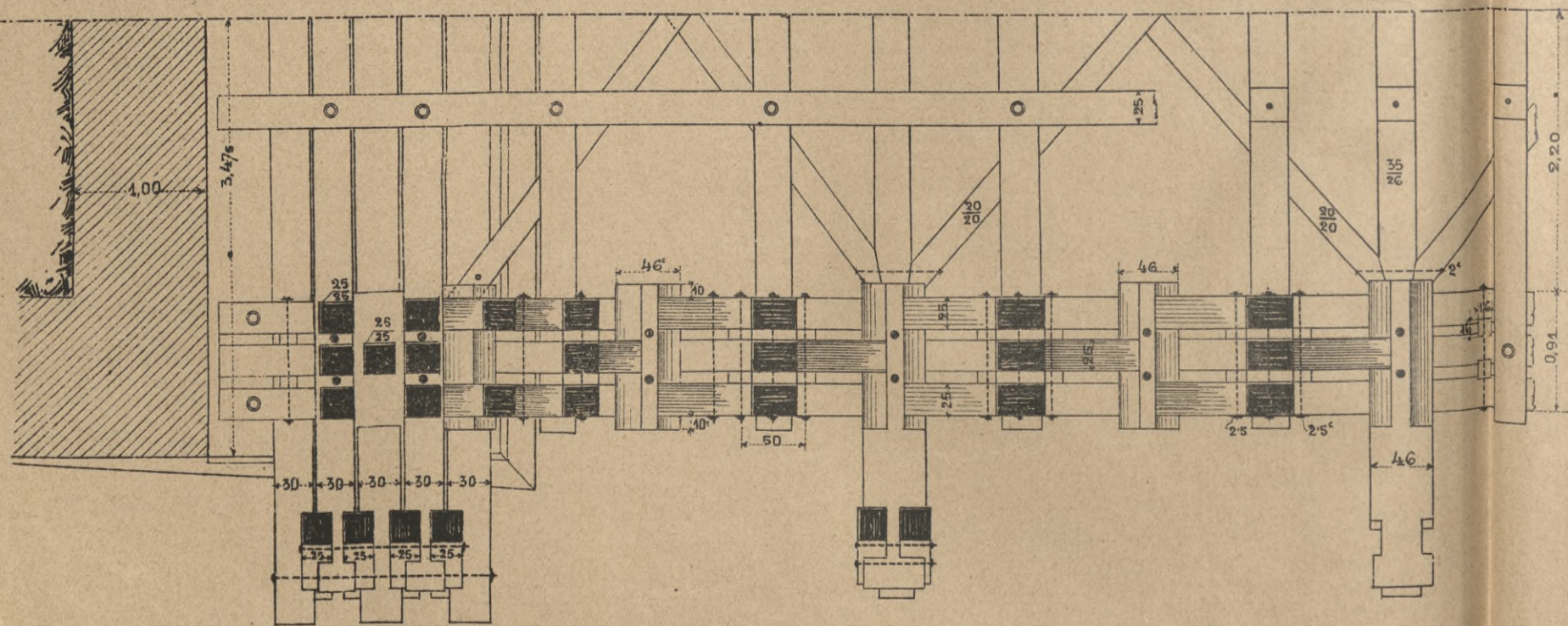
1:20~

o pomoście dołem a rozpiętości 30,0 m.

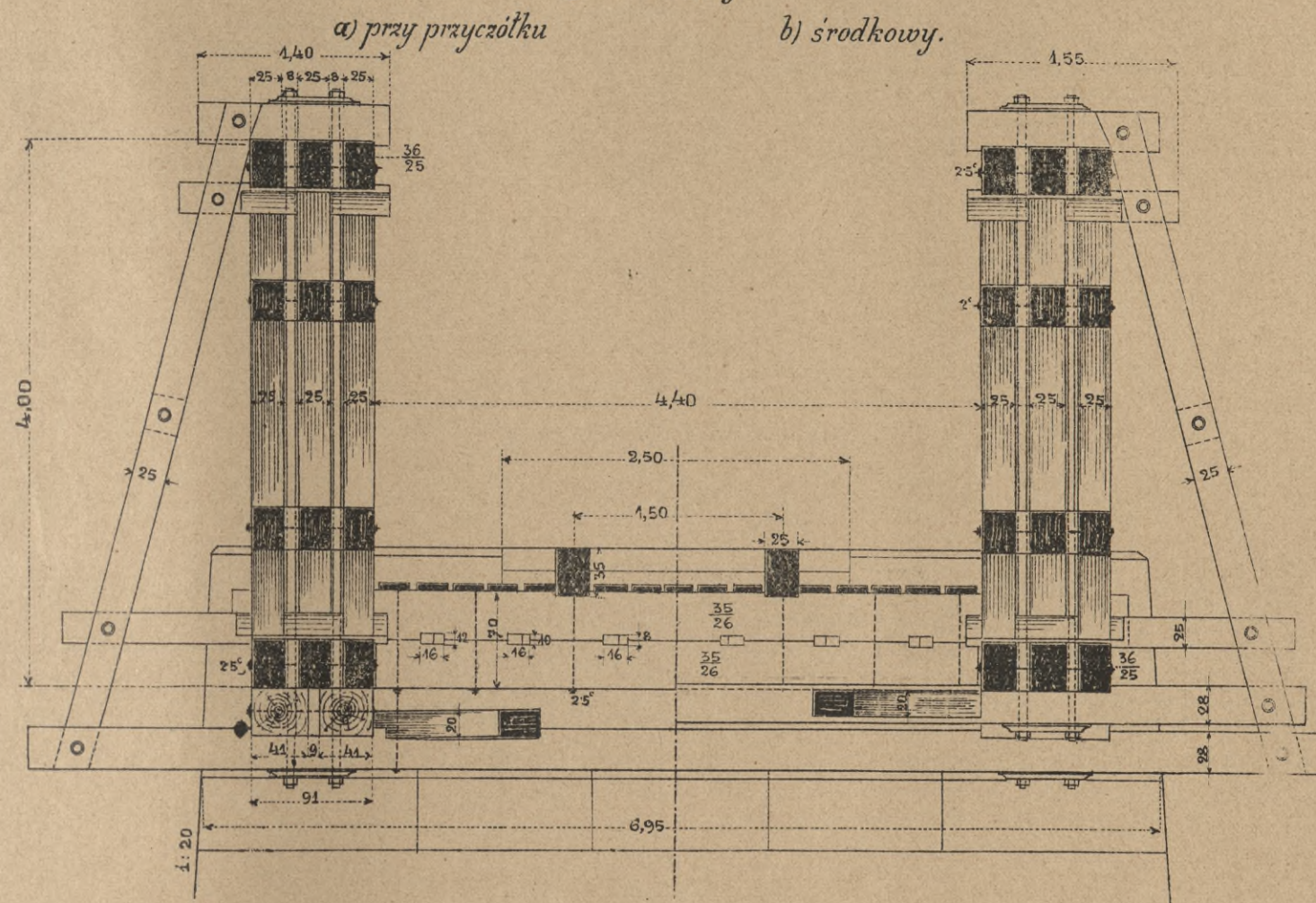
Rys.1 Widok.



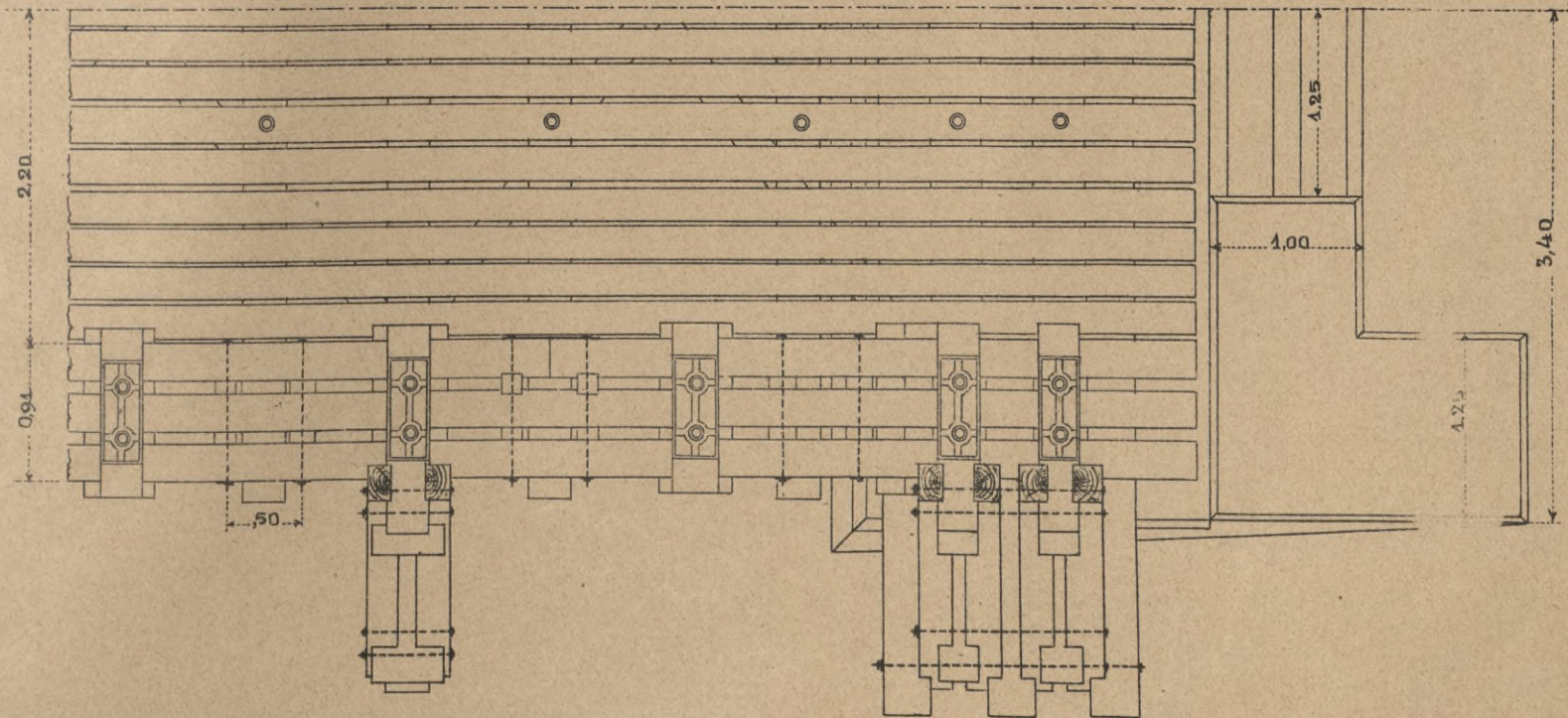
rys.3. Przekrój poziomy.



rys.2. Przekrój

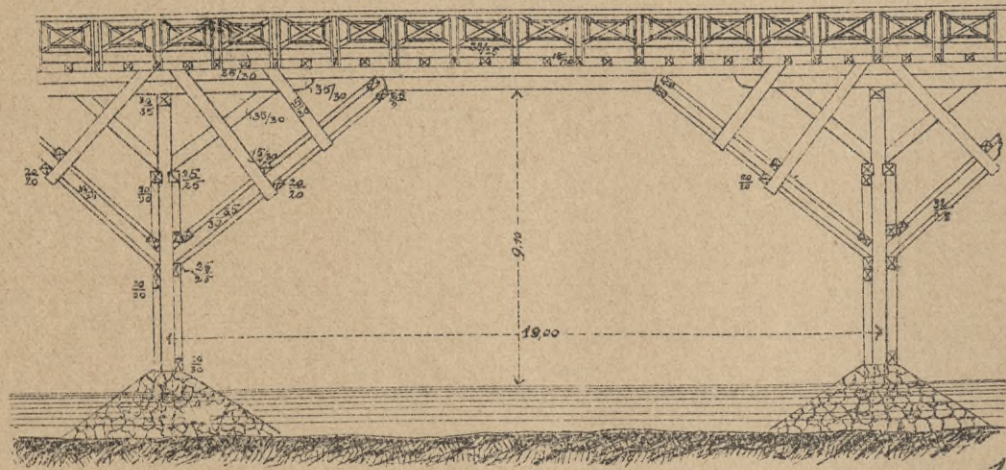


rys.4. Widok z góry.



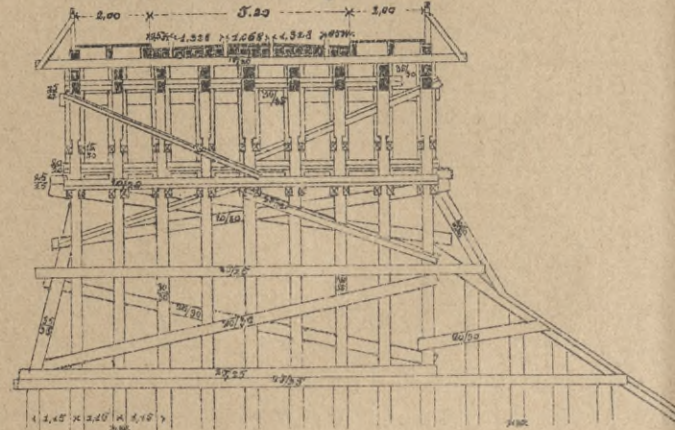
Rusztowanie mostu Morand i Lafayette w Lugdunie

Rys. 1a. Widok

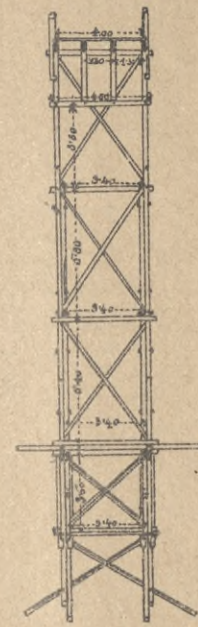


1:200

Rys. 1b. Powzroj



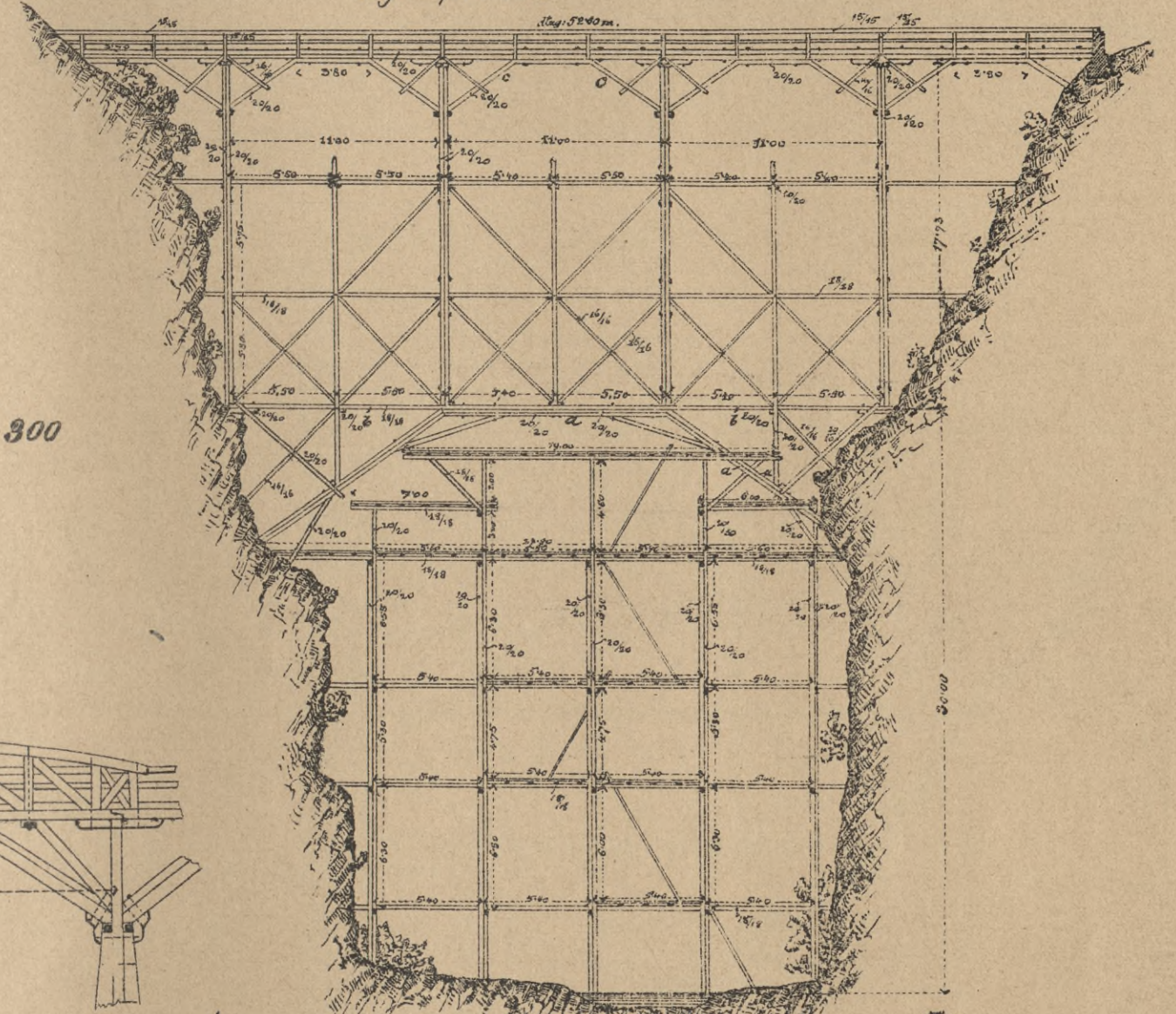
Rys. 2a. Przekroj



1:300

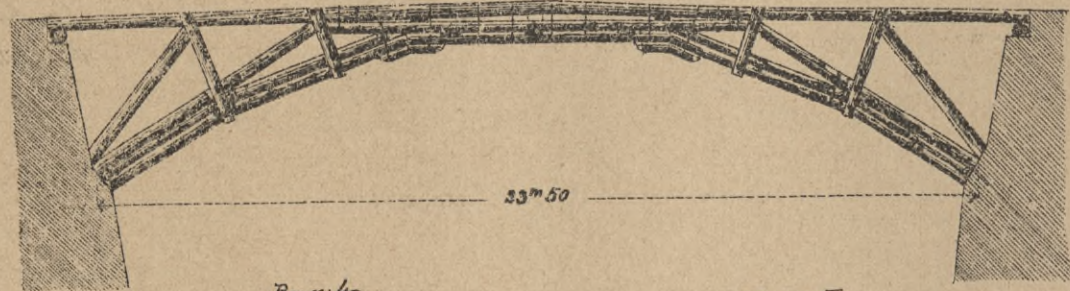
Most linczasowy nad Persiną w Tyrolu

Rys. 2a. Widok



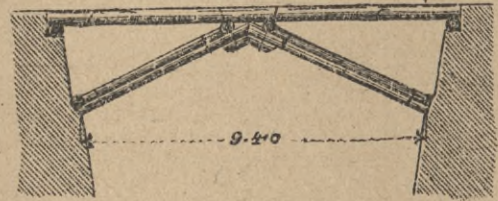
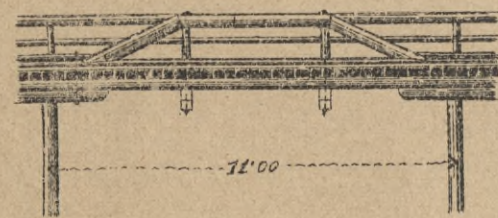
Mosty drogowe drewniane w Norwegii

Rys. 3



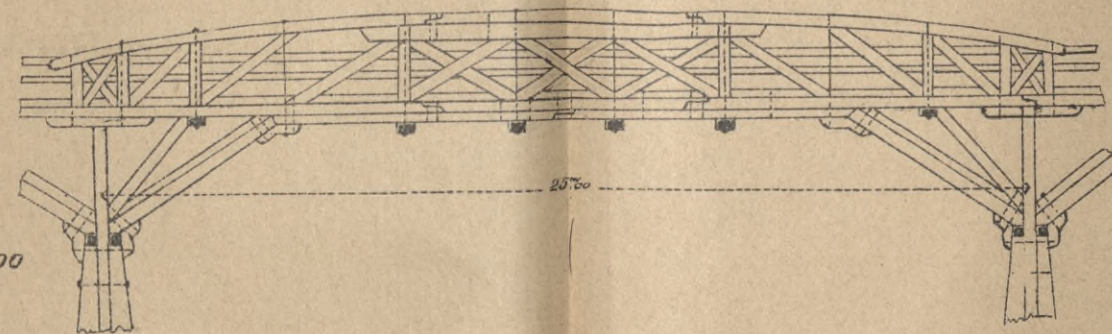
Rys. 4

Rys. 5



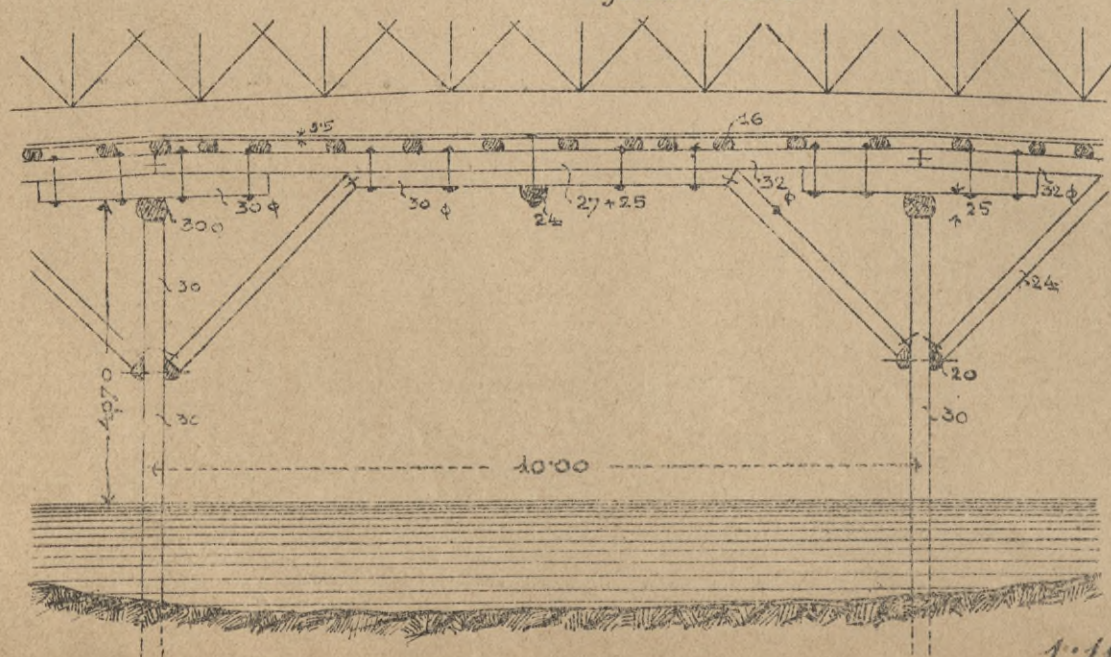
1:800

Rys. 6



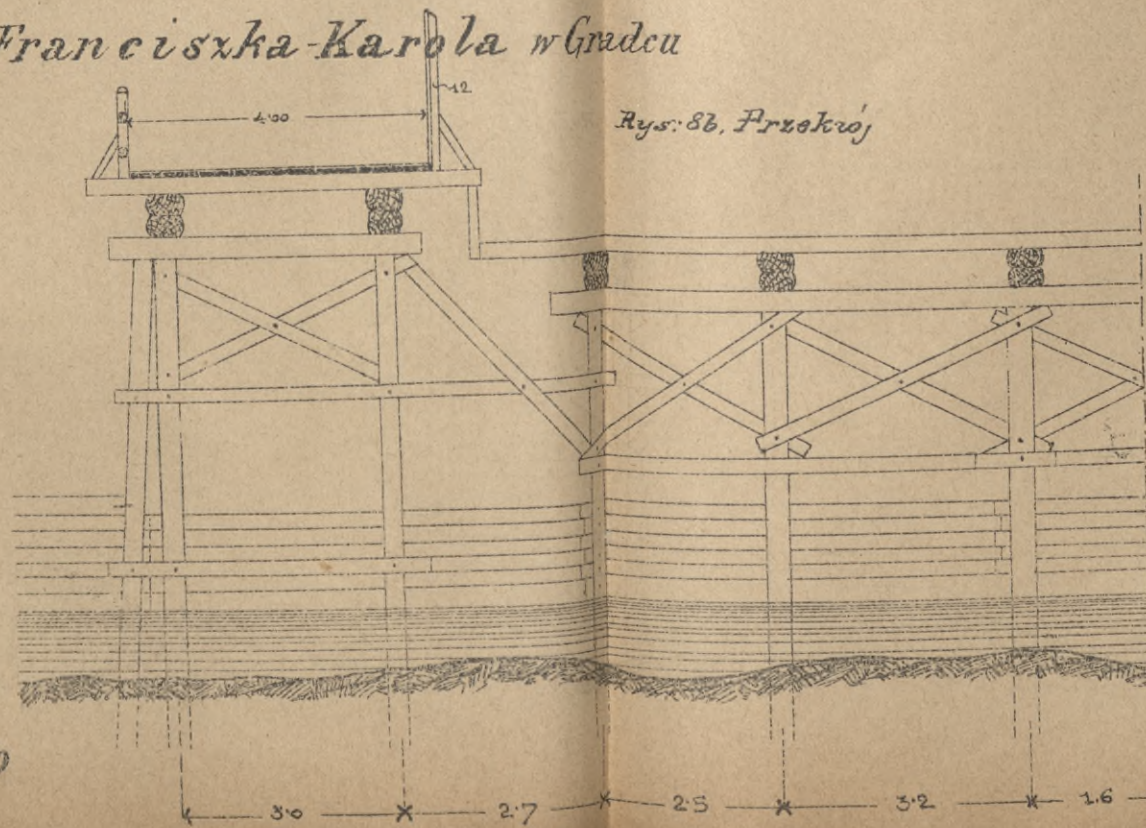
Rusztowanie mostu Franciszka Karola w Gradcu

Rys. 8a. Widok

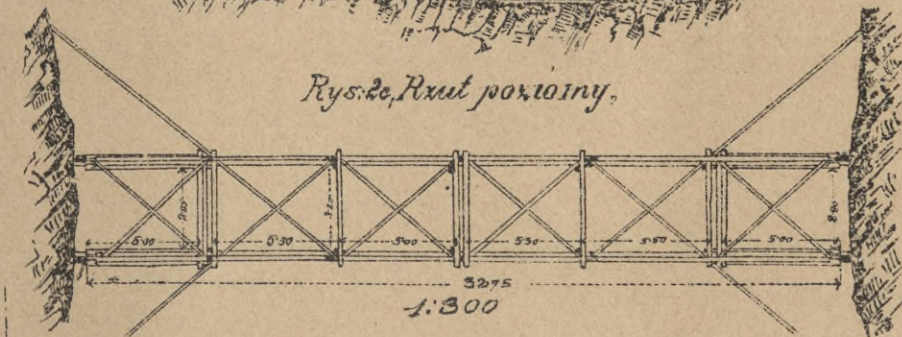


1:100

Rys. 8b. Przekroj

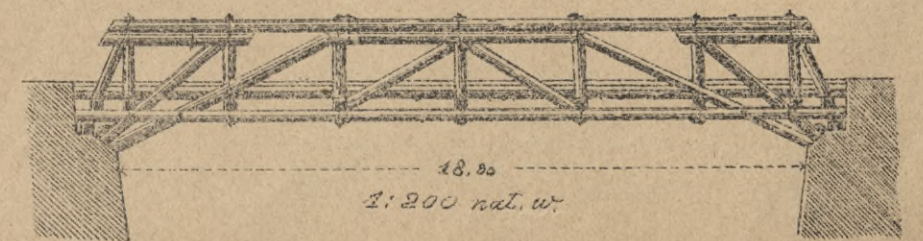


Rys. 2b. Przet poziomy



1:300

Rys. 7. Most drogowy w Norwegii

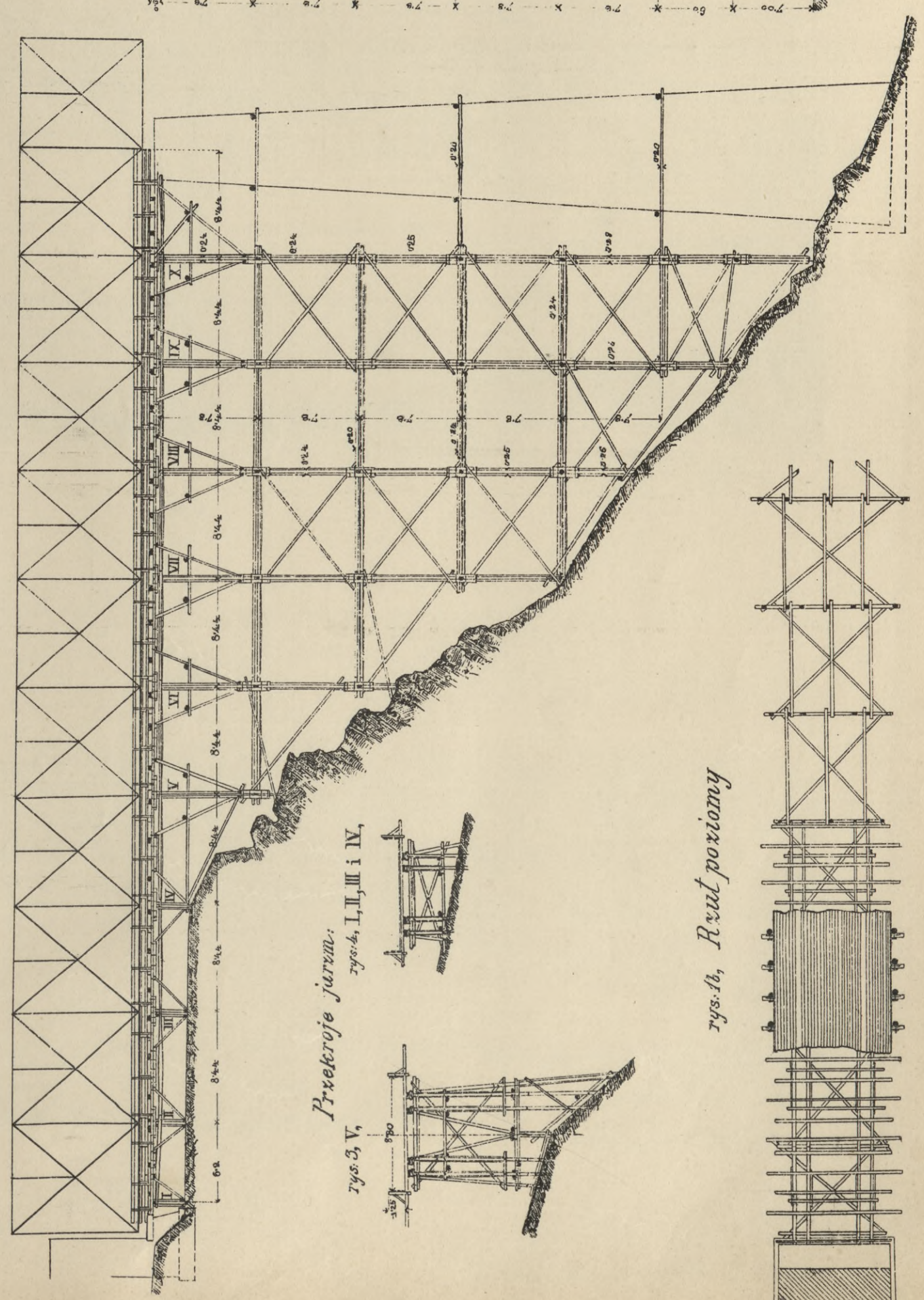


1:200 nat. w.

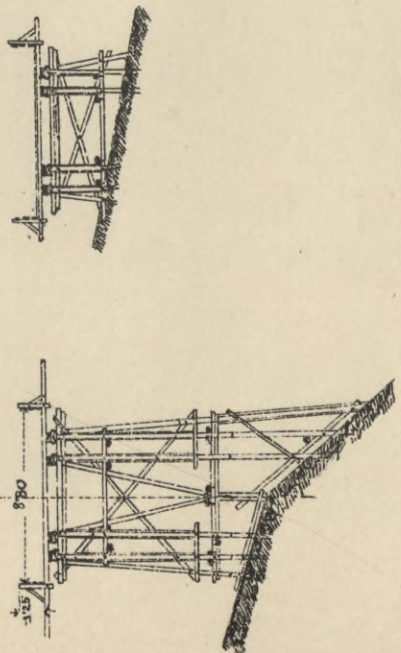
RUSZTOWANIE WIADUKTU NAD WELTAWĄ W CERVÉNIE.

Tab. 66,

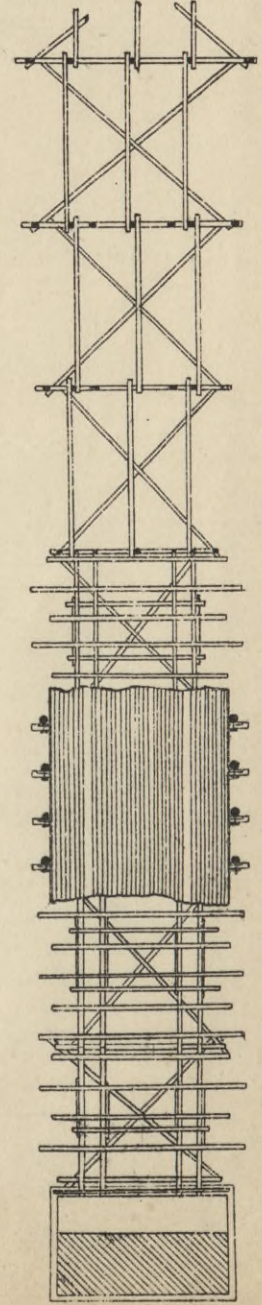
Rys. 1a, Widok



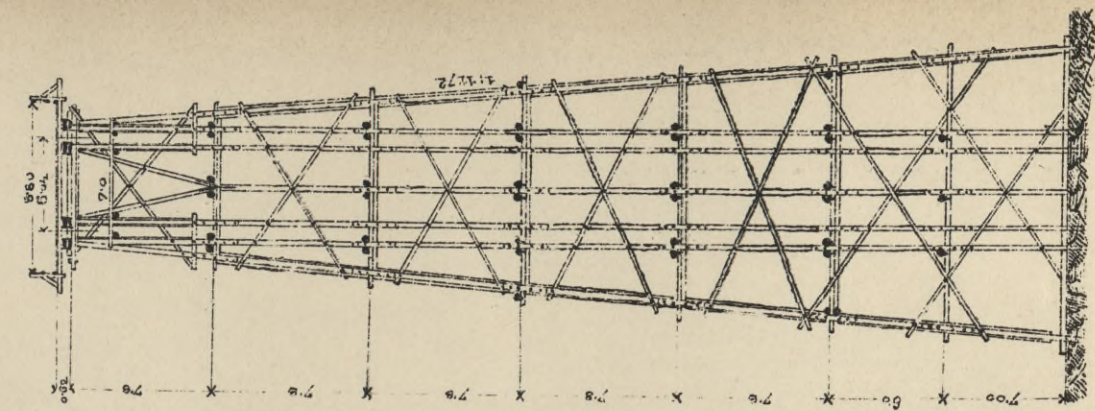
Przekroje jaram:
rys. 3, V,
rys. 4, I, II, III i IV,



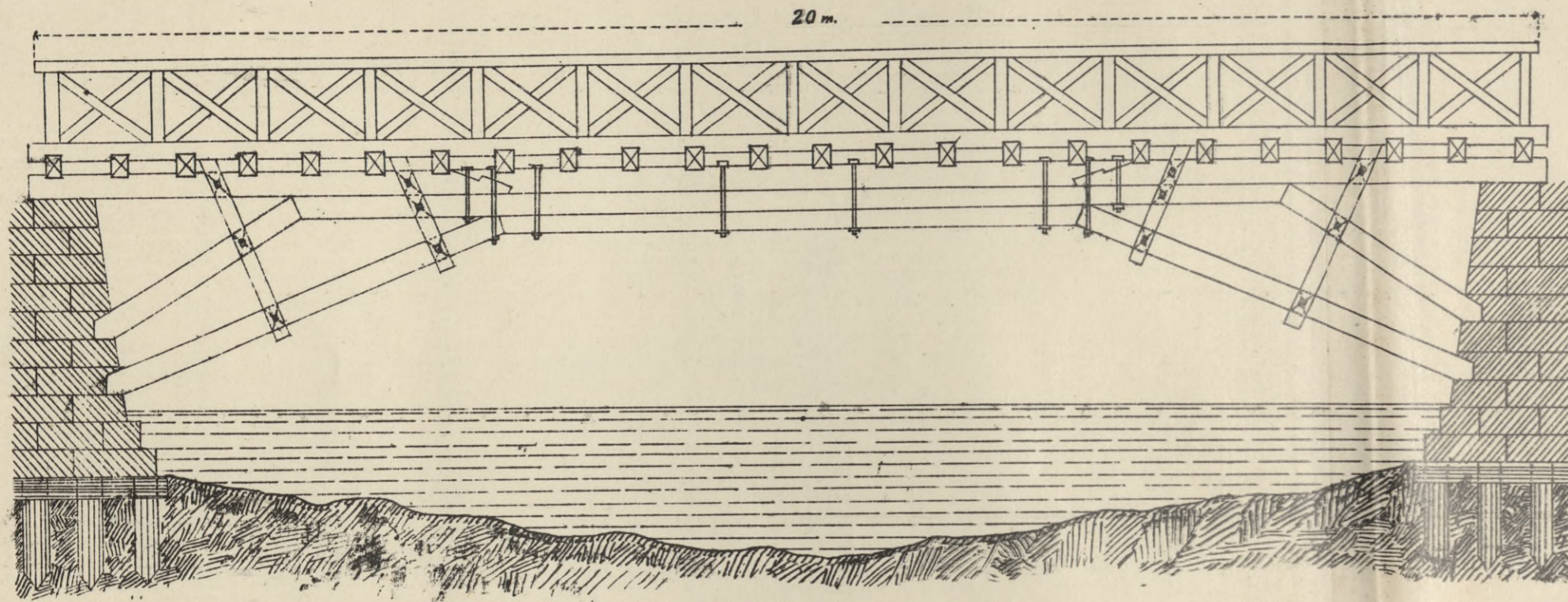
rys. 1b, Rzut poziomy



rys. 2, Przekroj jarma X,

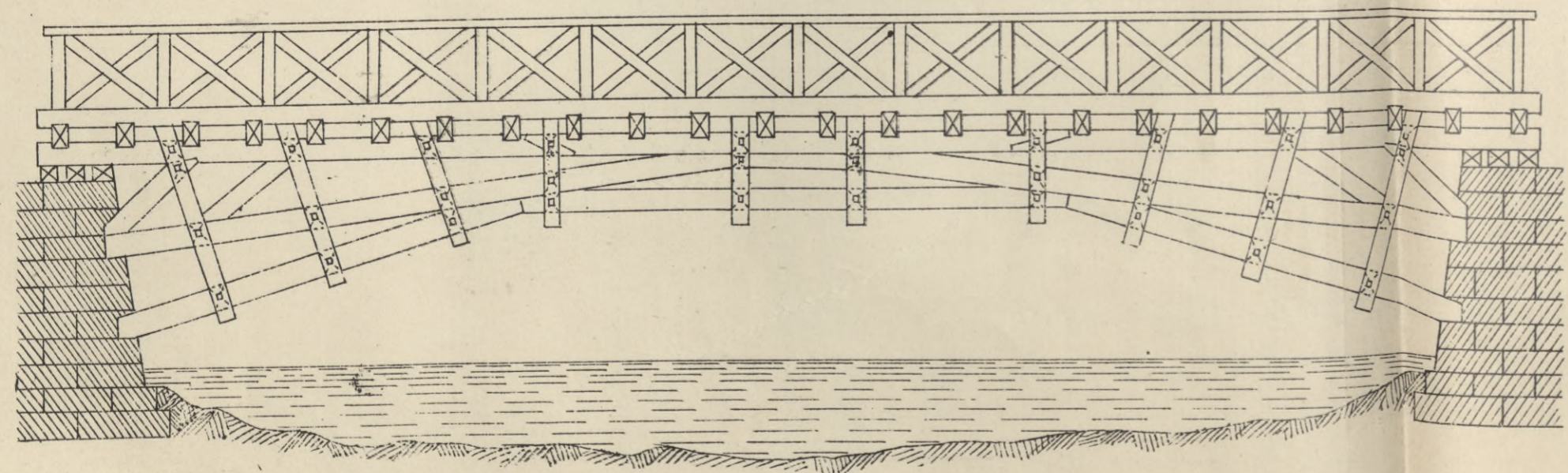


Rys. 1.



1:75.

Rys. 2.

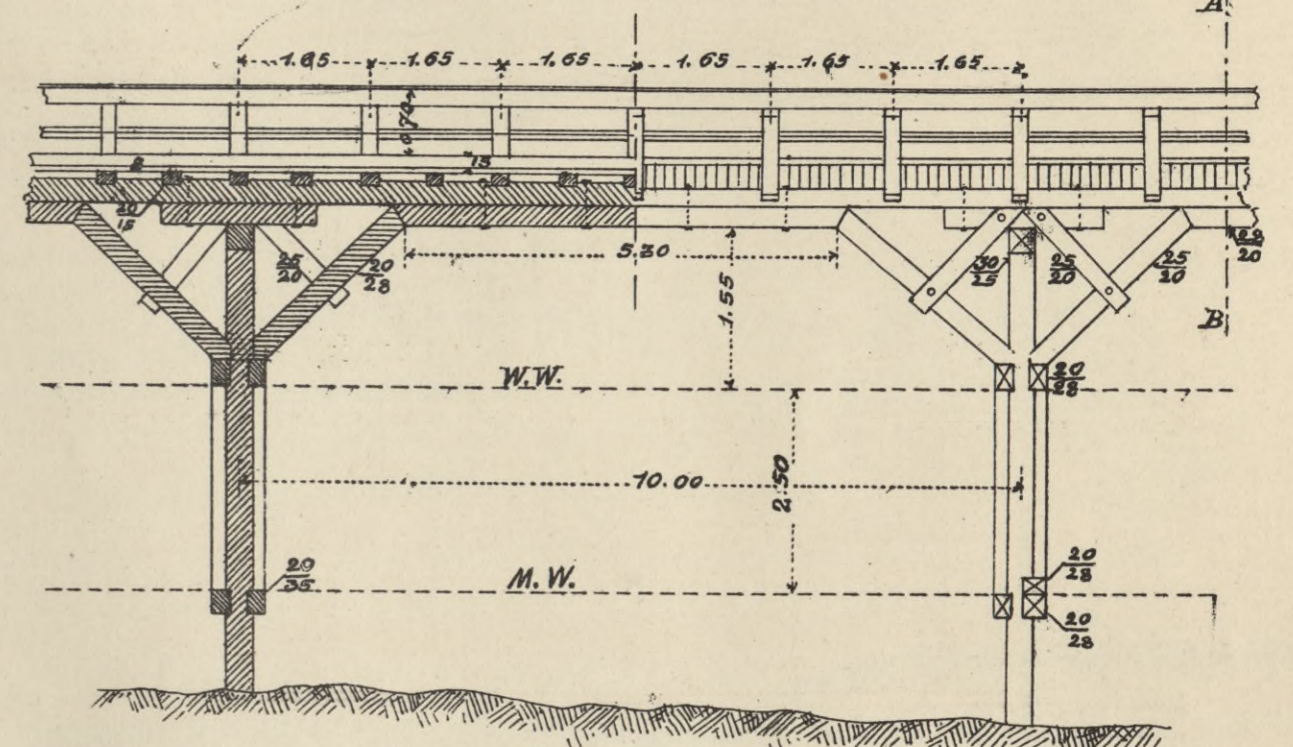


1:75.

Most nad Hère.

Rys. 3a. Przekrój podłużny.

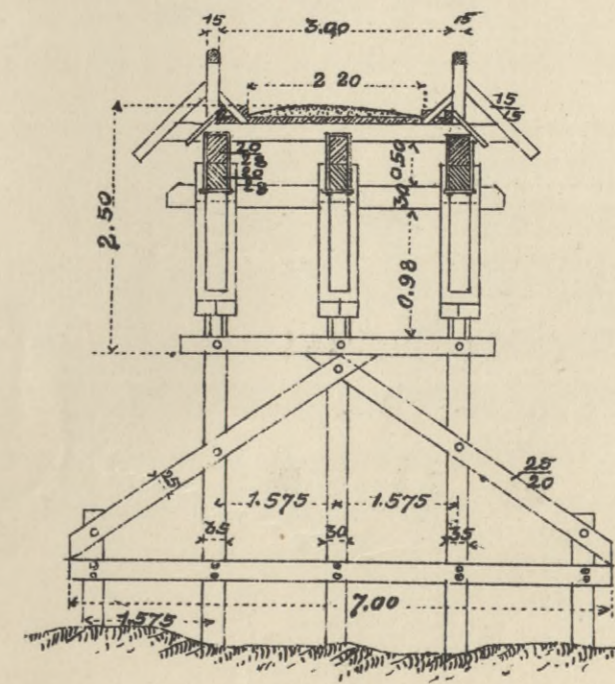
Widok.



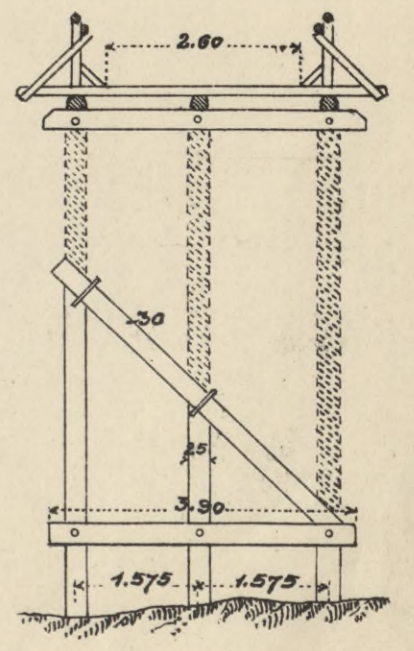
1:100.

Przekrój A-B.

Rys. 3b.



Rys. 3c.

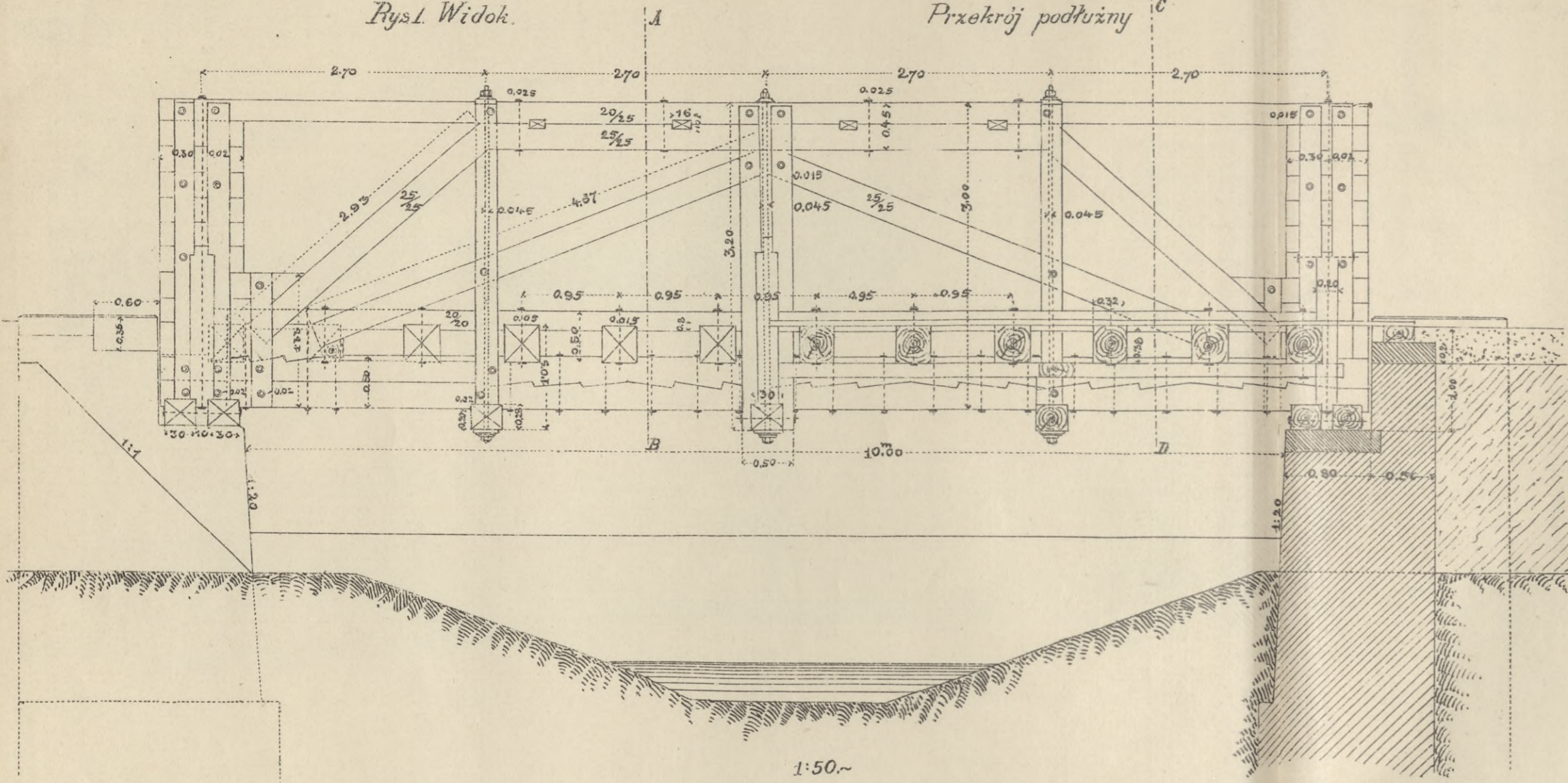


1:100.

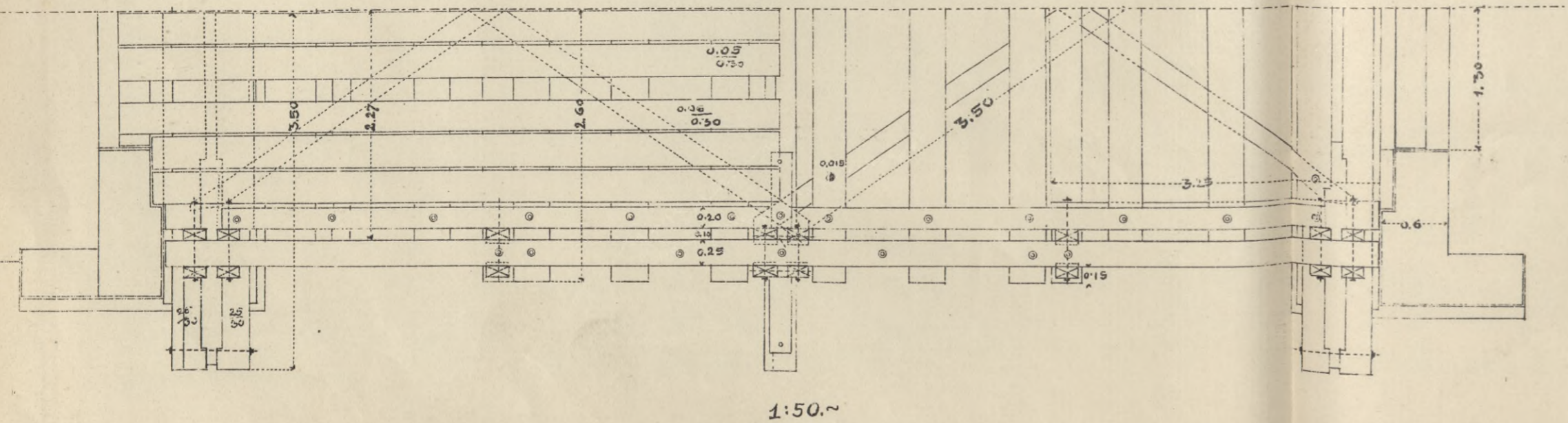
MOST DREWNIANY ROZPOROWY

Rys. 1. Widok.

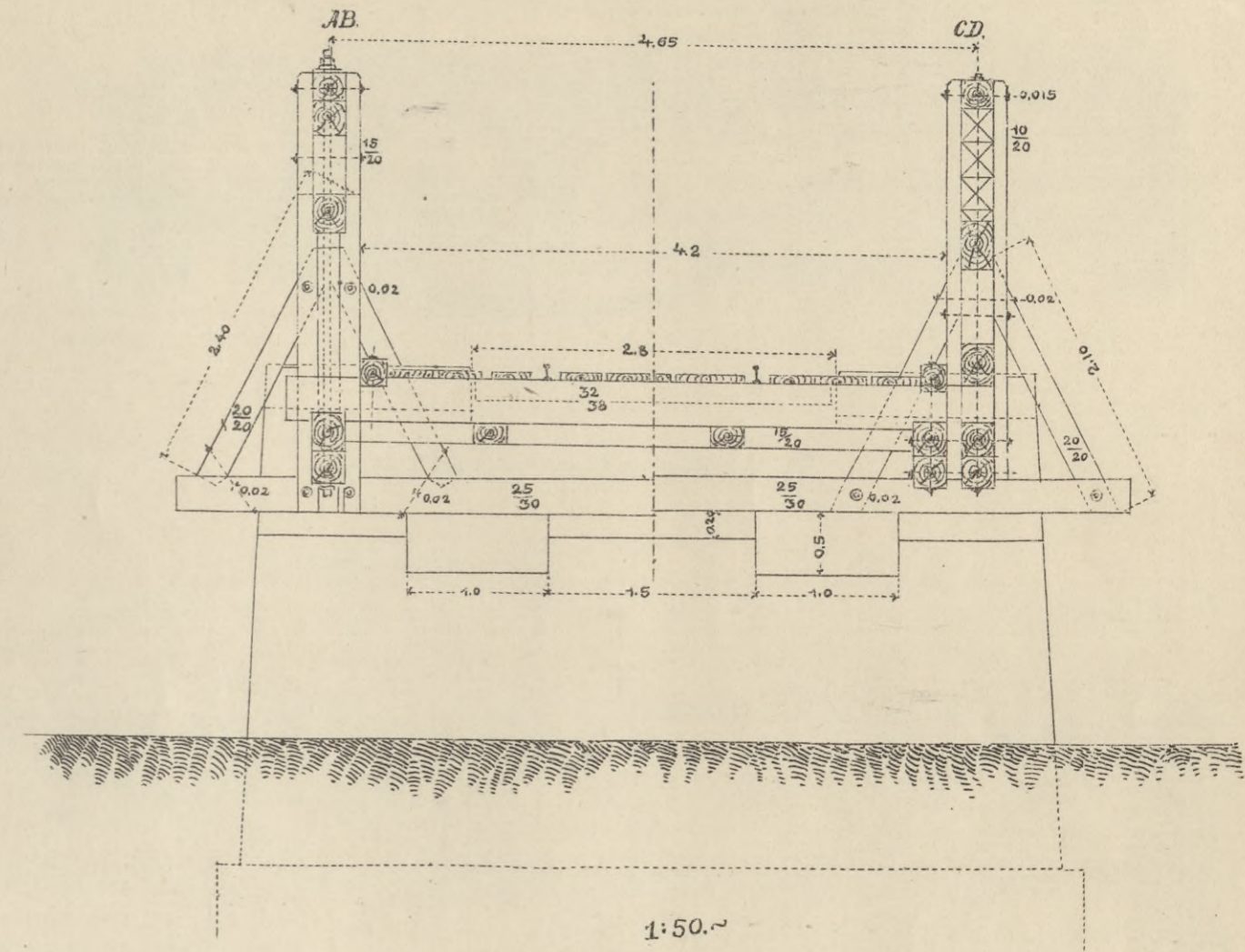
Przekrój podłużny c



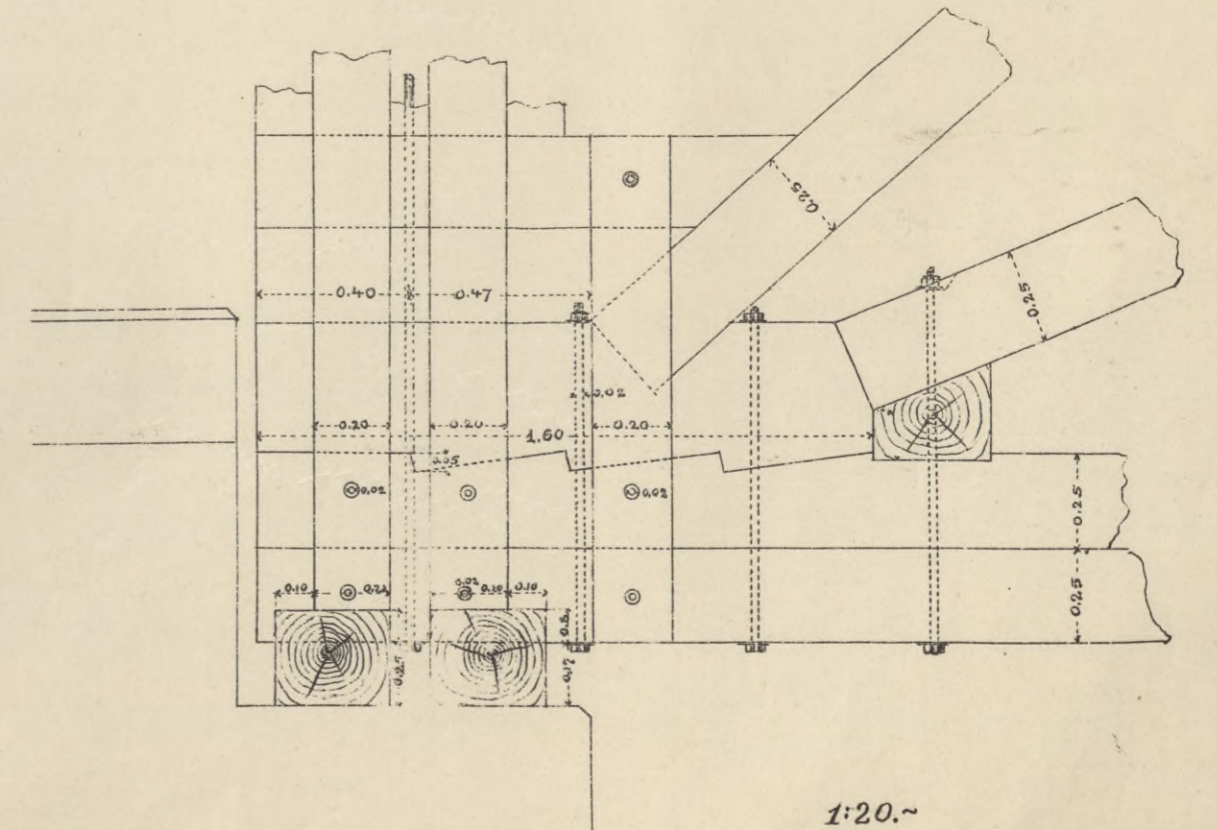
Rys. 2. Rzut poziomy.



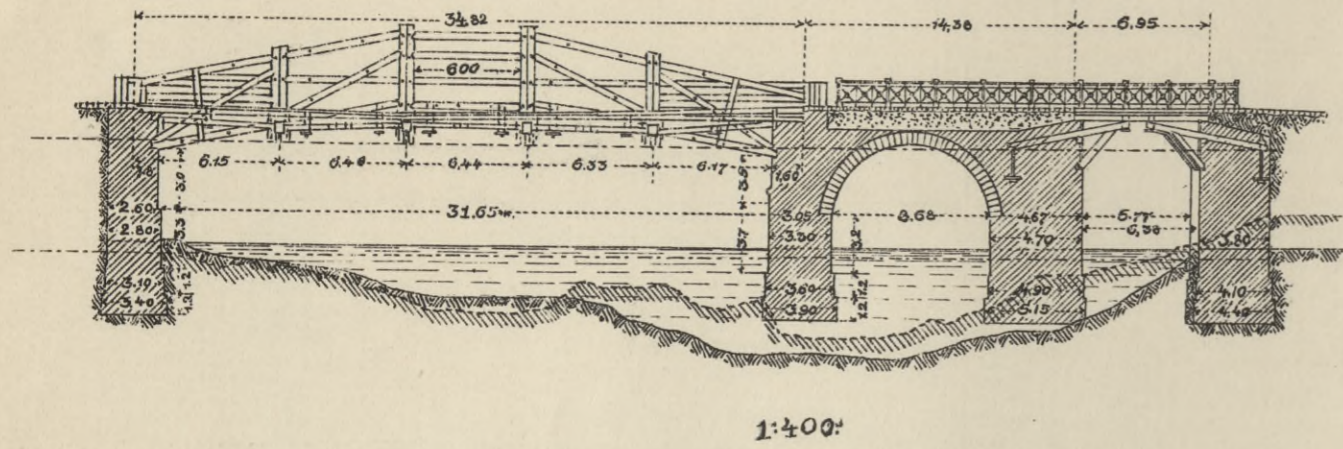
Rys. 3. Przekrój poprzeczny.



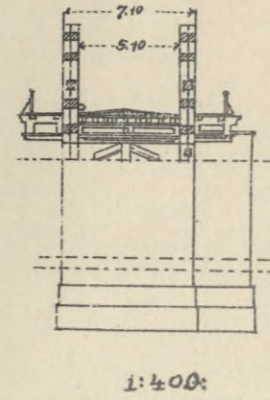
Rys. 4. Skośnogł.



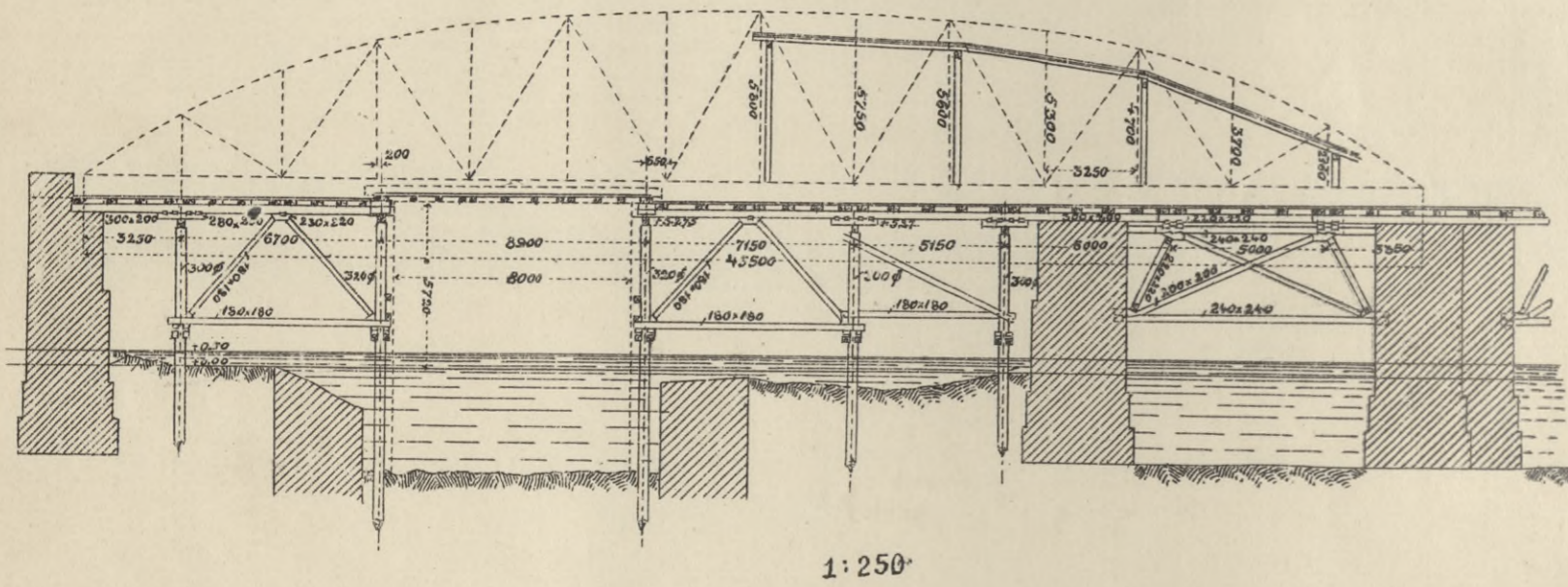
Rys. 1. Przekrój podłużny



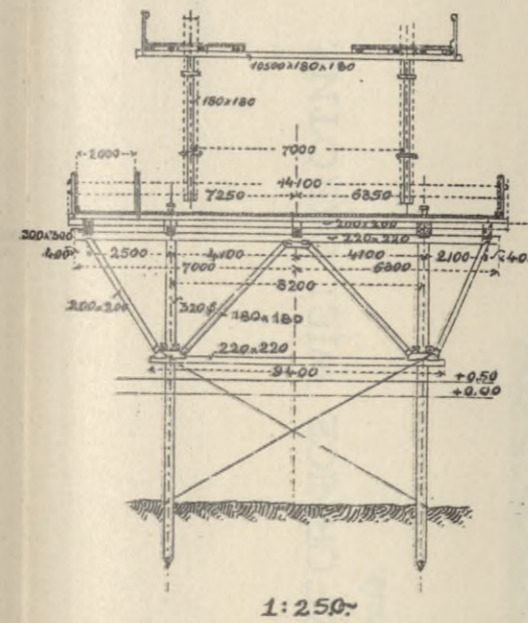
Rys. 2. Przekrój poprzeczny



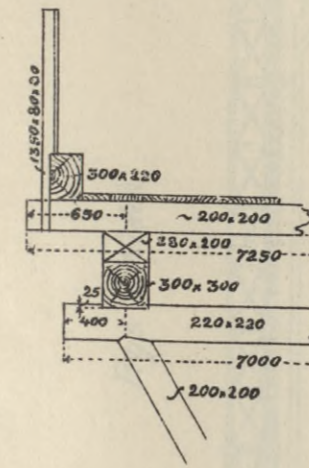
Rys. 3. Przekrój podłużny



Rys. 4. Przekrój poprzeczny

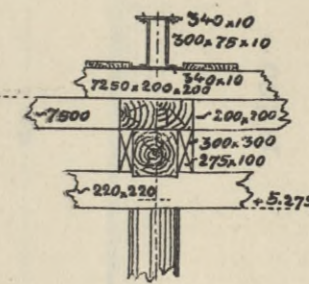


Rys. 7.

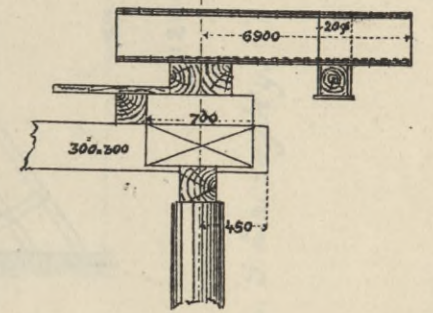


Szczegóły

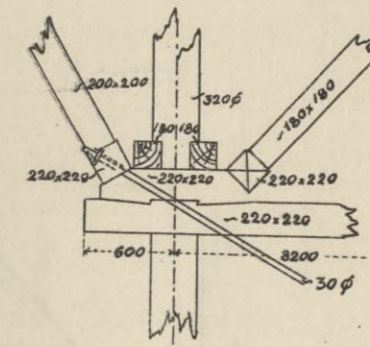
Rys. 8.



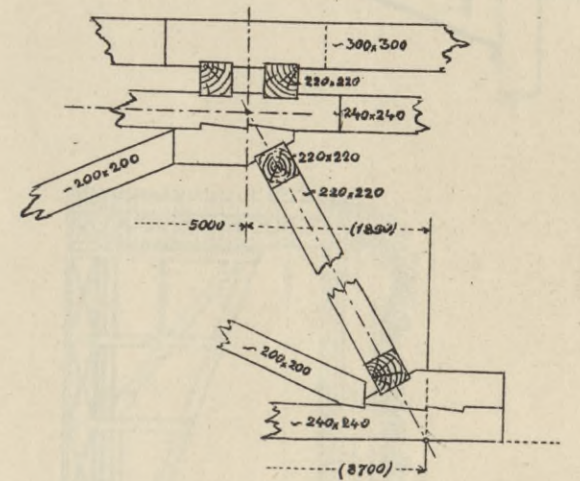
Rys. 9.



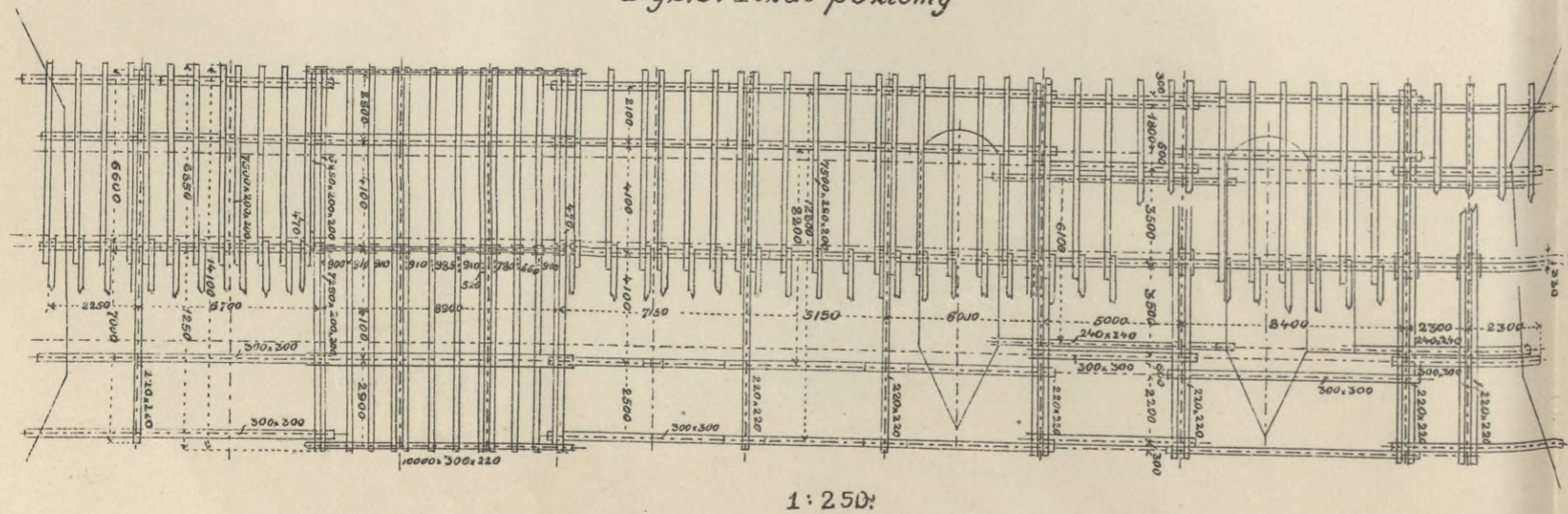
Rys. 10.



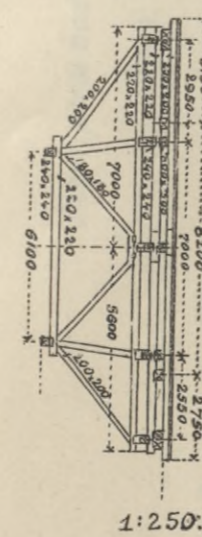
Rys. 11.



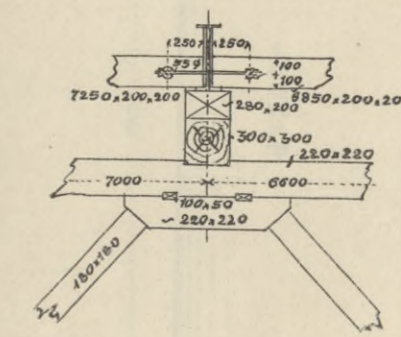
Rys. 5. Rzut poziomy



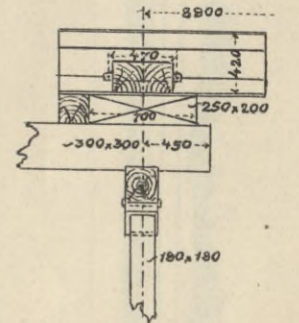
Rys. 6. Przekrój



Rys. 12.

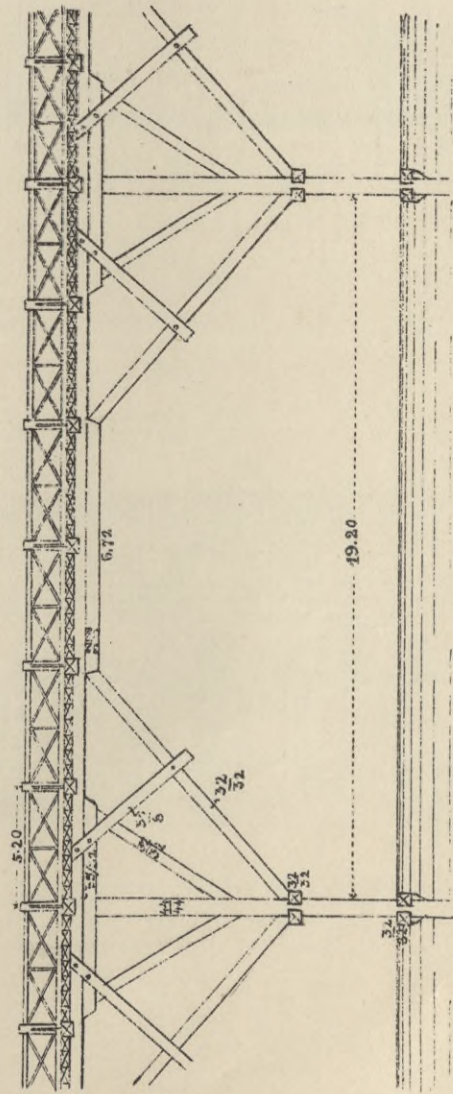


Rys. 13.



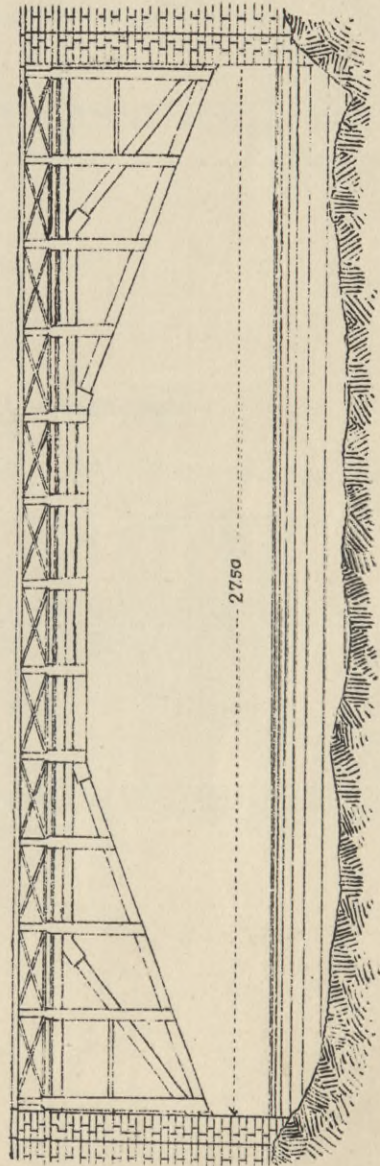
Skala dla szczegółów 1:50.

Rys. 1. Widok.



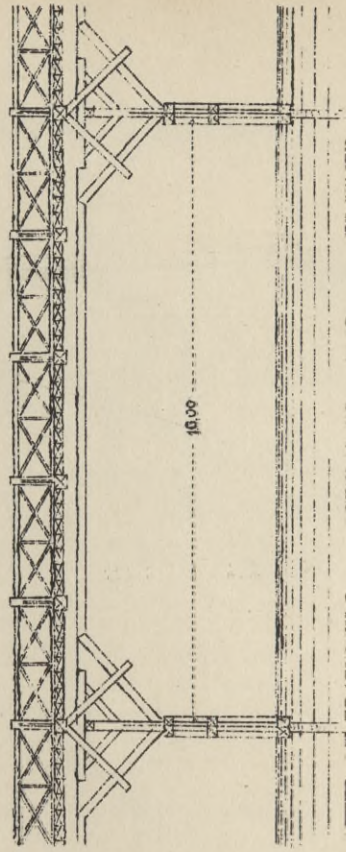
1:200.~

Rys. 2. Widok.



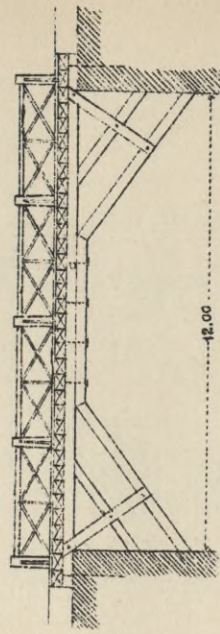
1:200.~

Rys. 3. Widok.



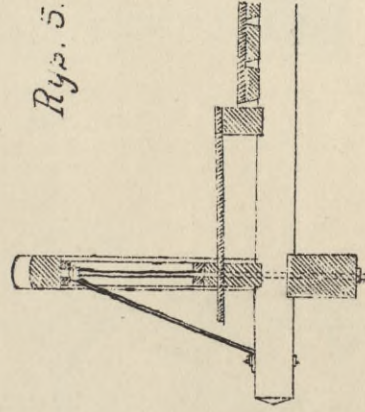
1:200.~

Rys. 4. Widok.



1:200.~

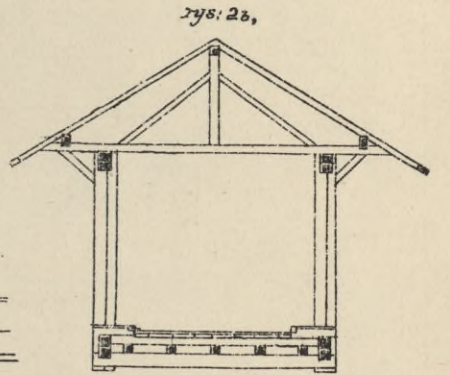
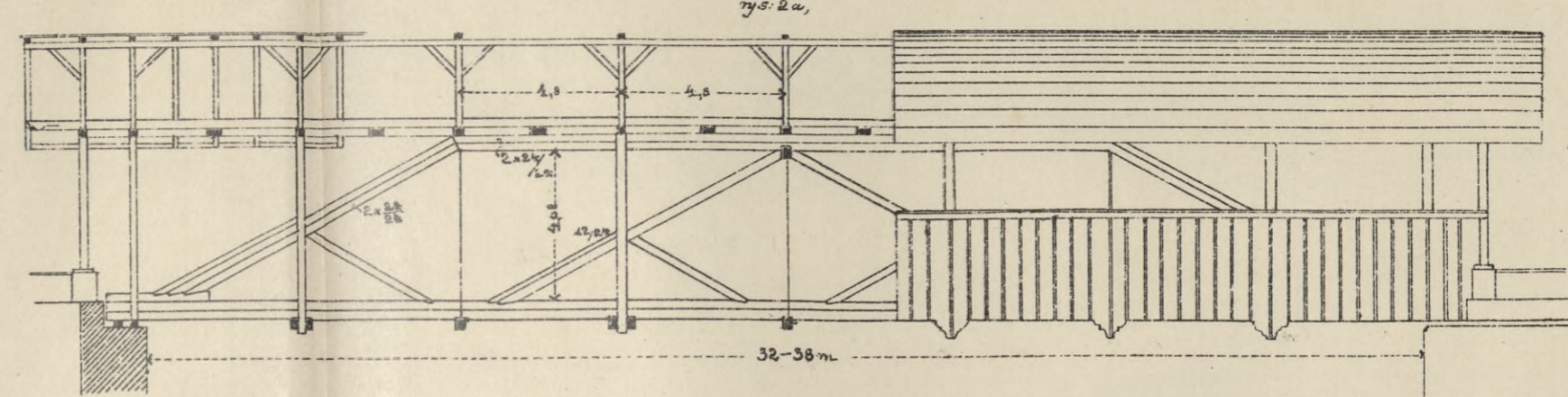
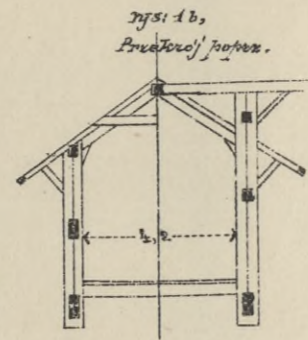
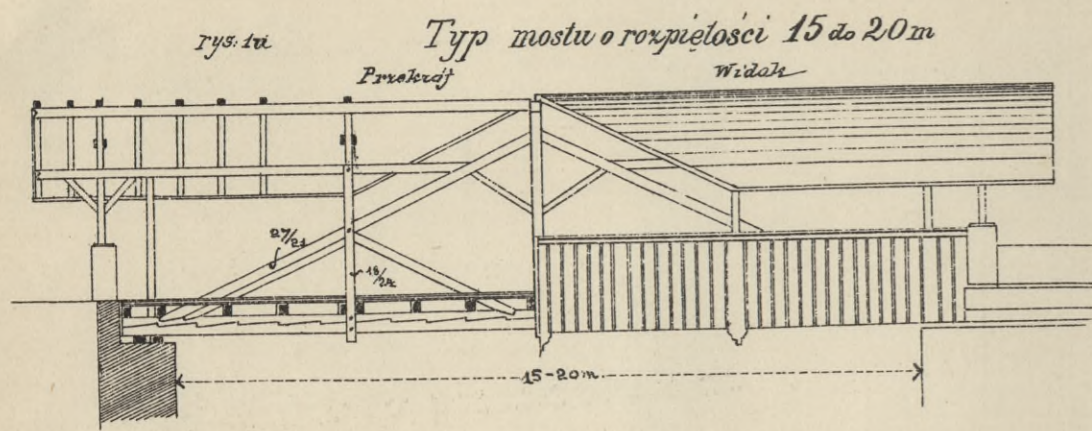
Rys. 5. Szczyt.



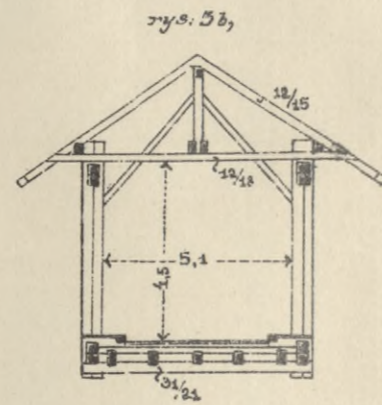
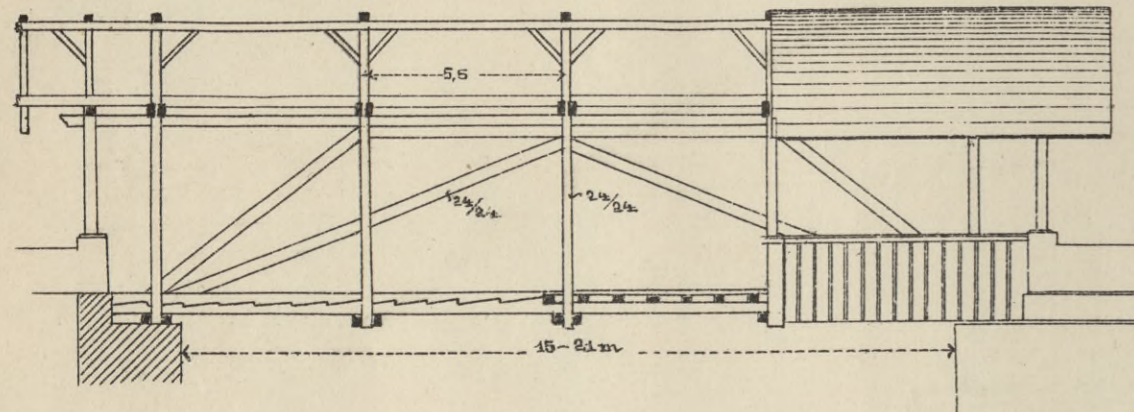
1:40.~

Typy Mostów drewnianych w kantonie Bernenskim

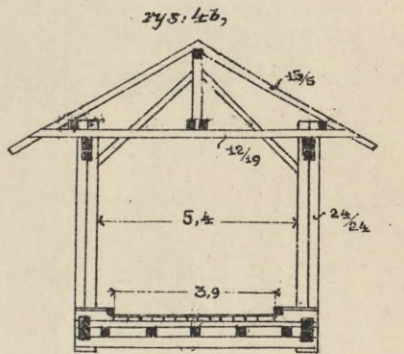
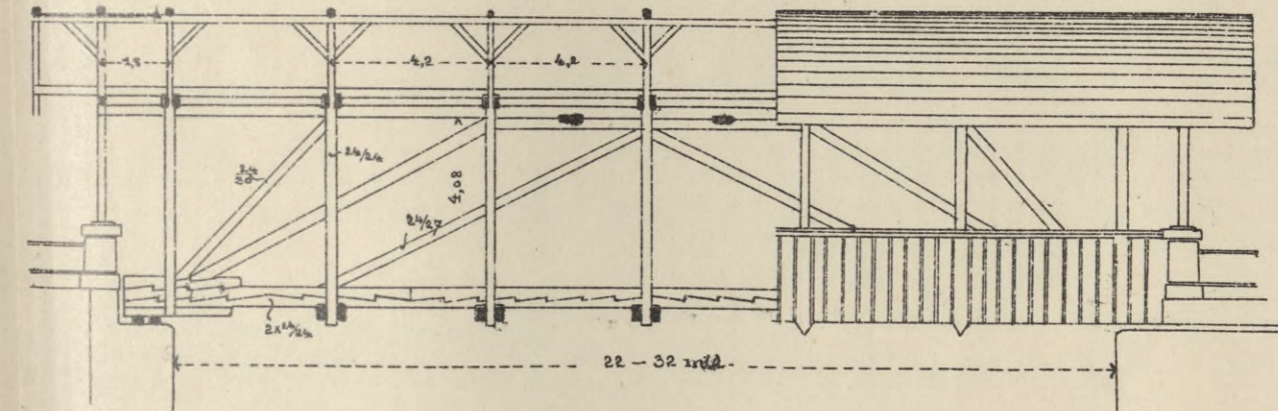
Most o rozpiętości 32-38 m.



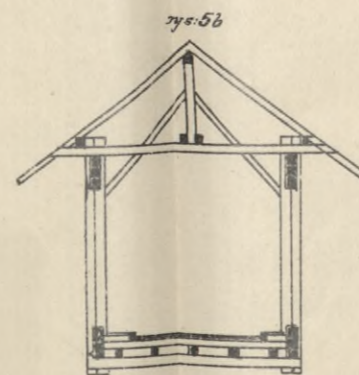
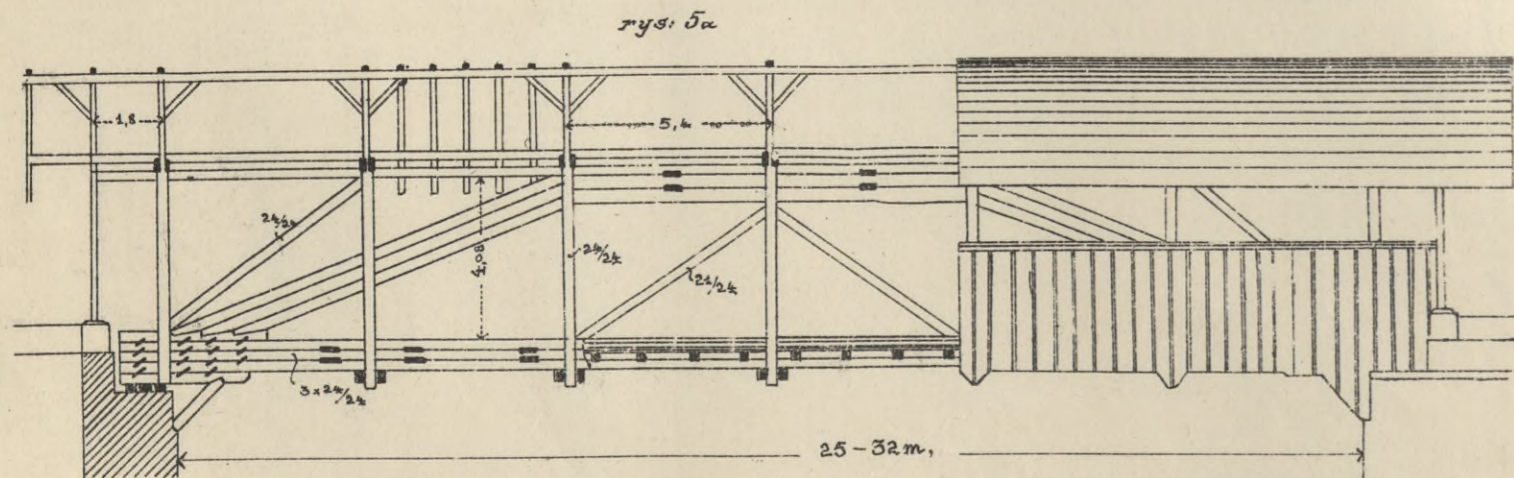
rys. 3a, Typ mostu o rozpiętości 15-21 m



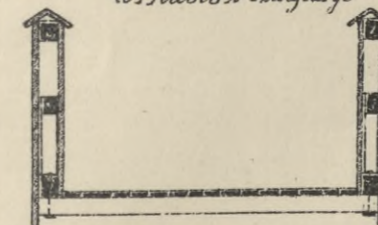
rys. 4a, Most o rozpiętości 22-32 m.



Typ mostu o rozpiętości 25-32 m

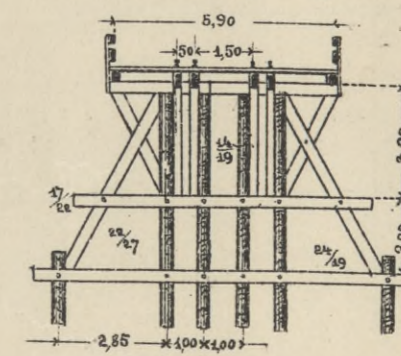


rys. 6, Most drogowy między Chur a Thusis w Szwajcaryi

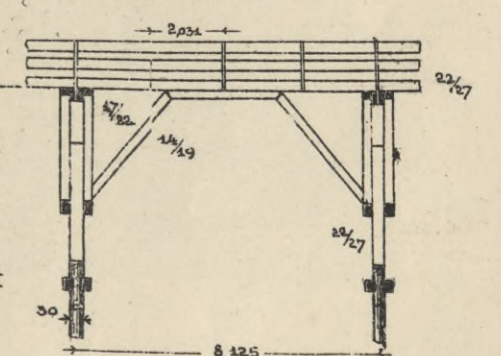


Most prowickorny nad Pad-m w Casalmaggiore

rys. 7a, Przekrój poprzeczny

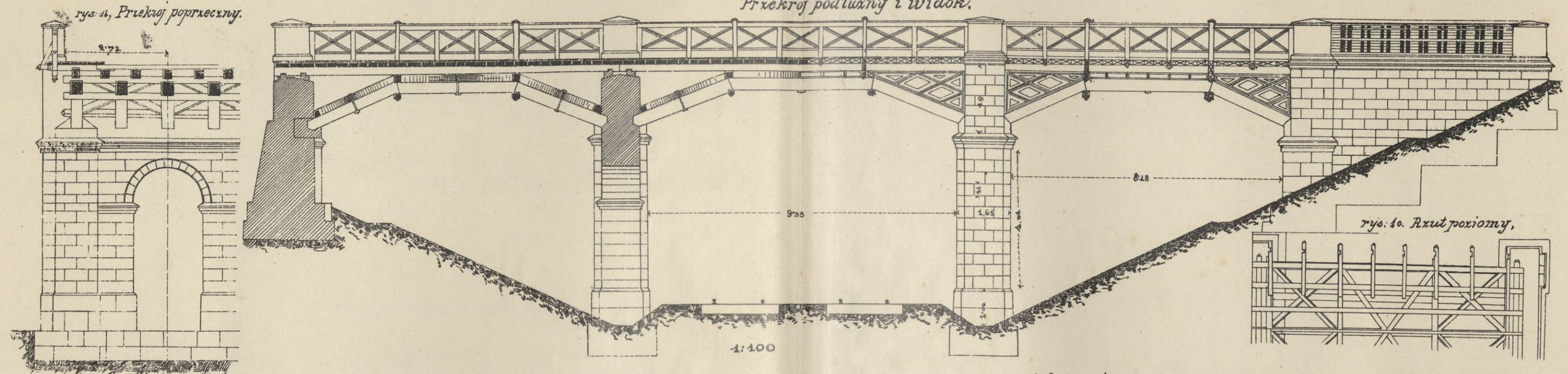


rys. 7b, Widok

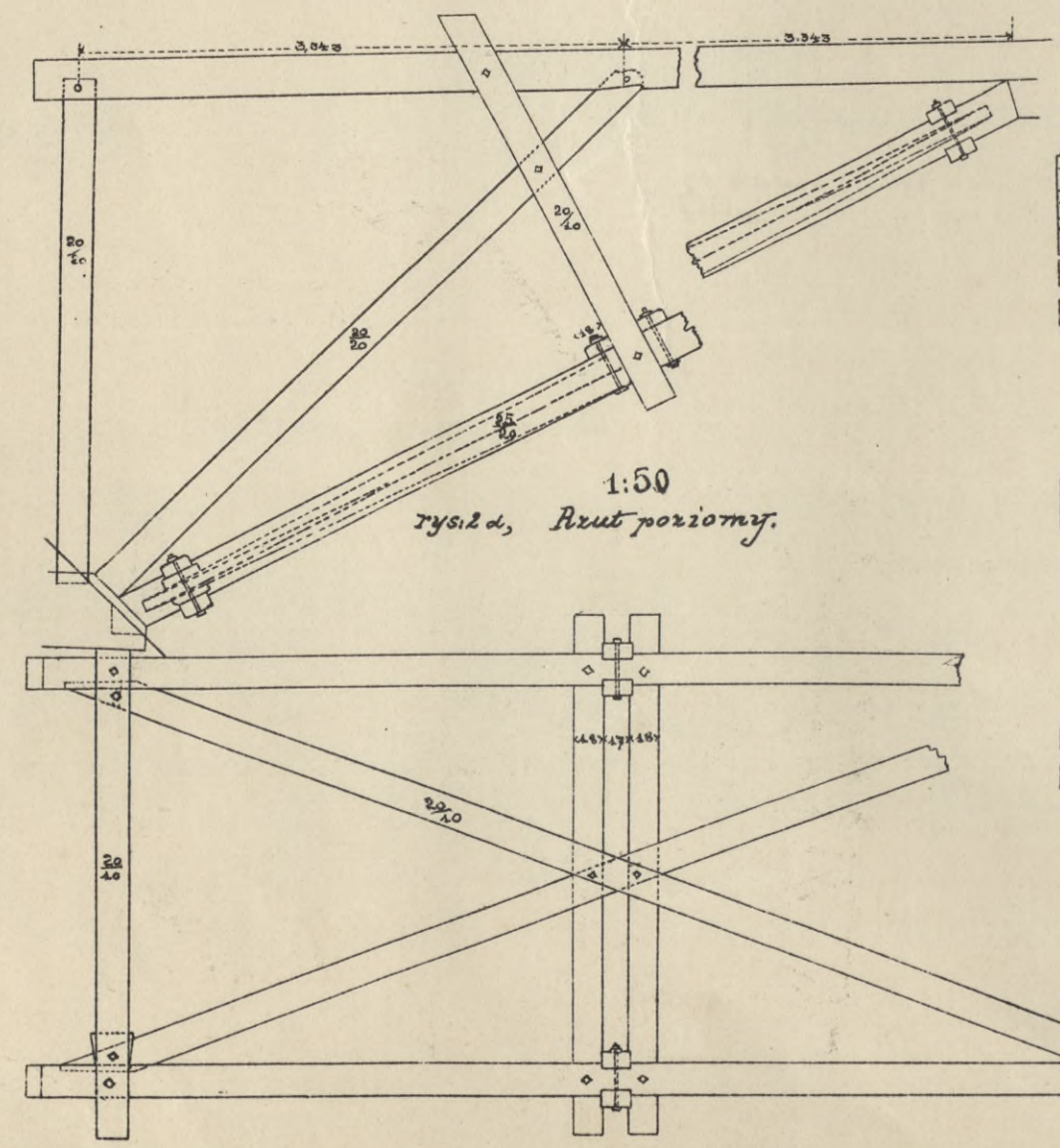


ROZPORNICE TRAPEZOWE

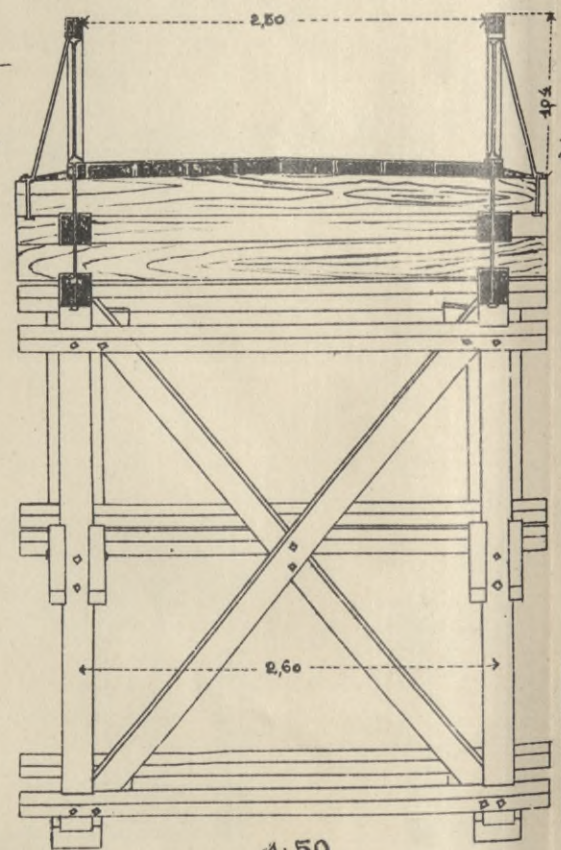
Rys. 1a. Most drogowy nad koleją Lehrte-Hildesheim.
Przekrój podłużny i widok.



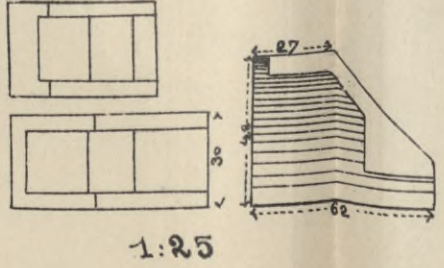
rys. 2c, Skrzegóły rozpornic.



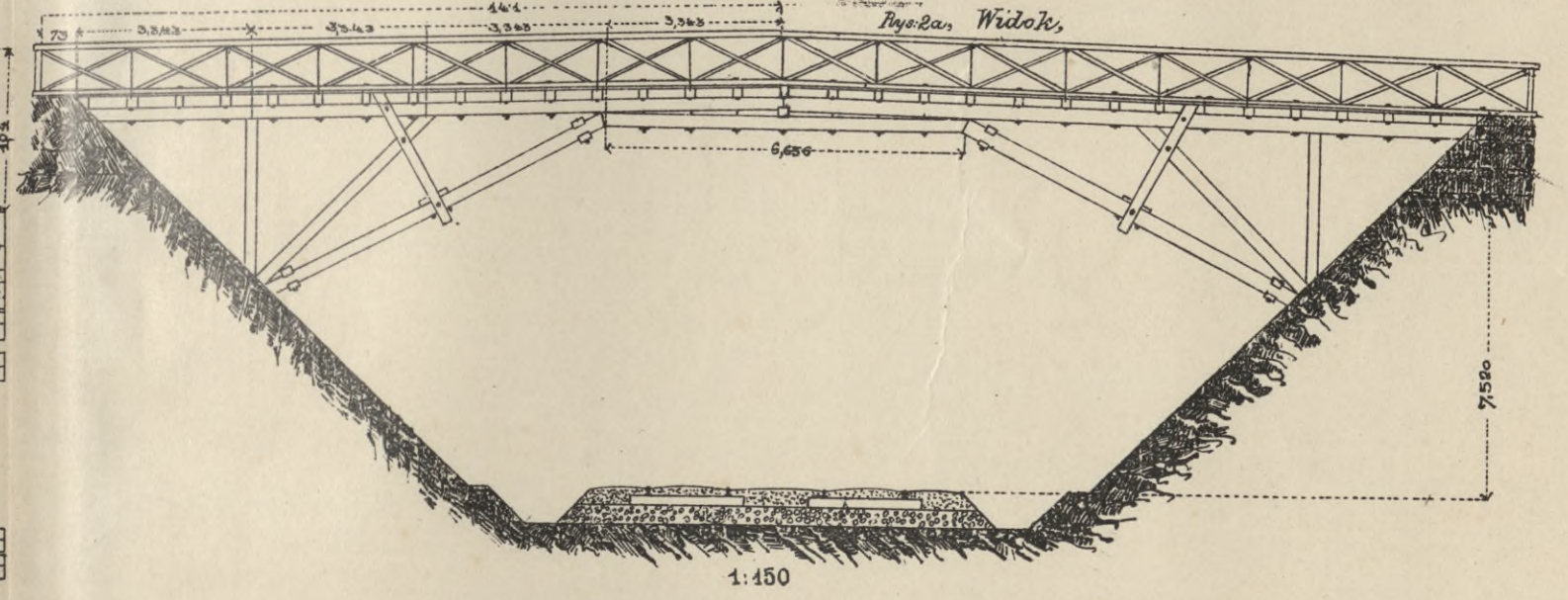
rys. 2e, Przekrój poprzeczny



rys. 2f, Skrzegóły trawnika,

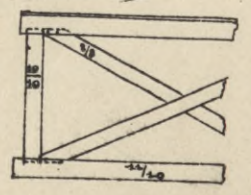
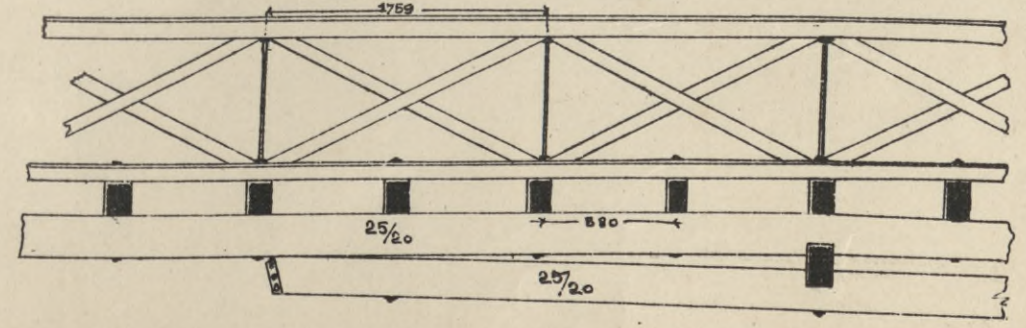


Most drewniany nad koleją paryżko-versalską,



Rys. 2b, Rzut poziomy,

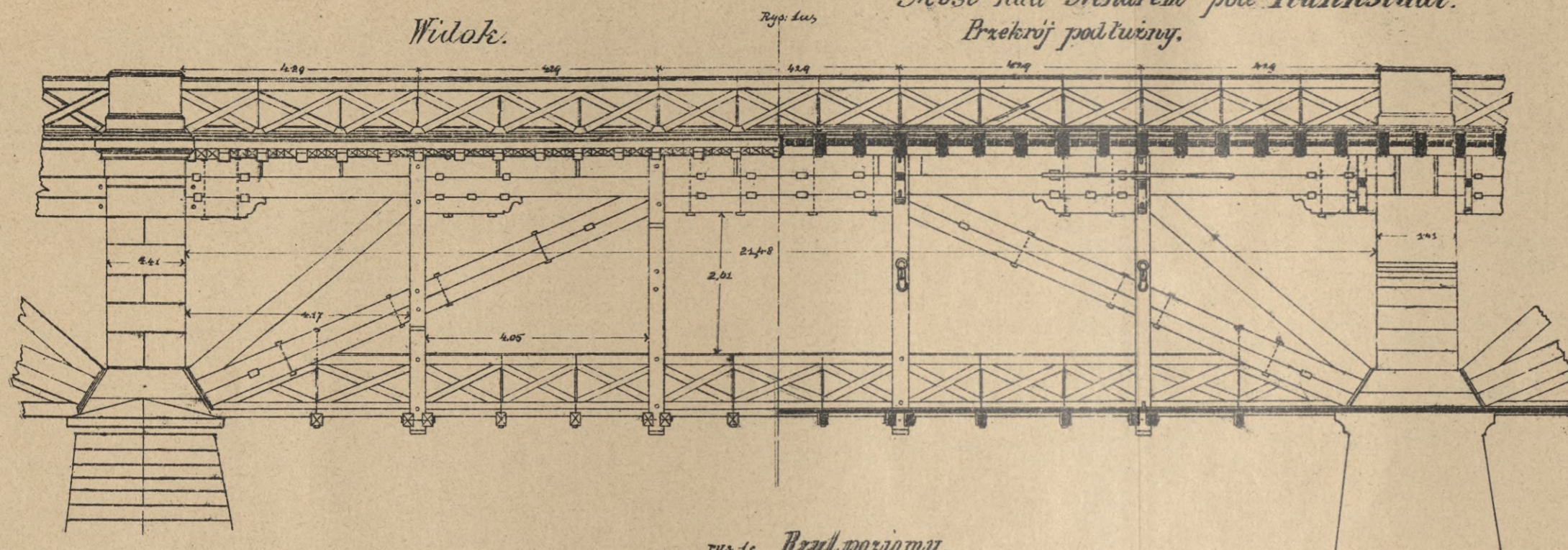
rys. 2g-z, Skrzegóły kraty,



ROZPORNICA WIELOKROTNA.

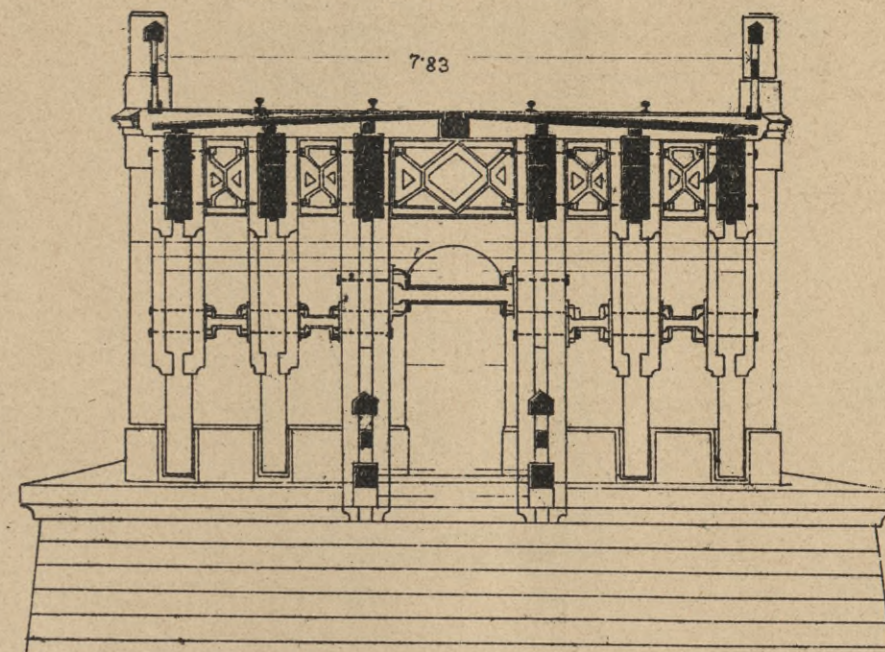
Most nad Sekarem pod Kainstadt.
Przekrój podłużny.

Widok.

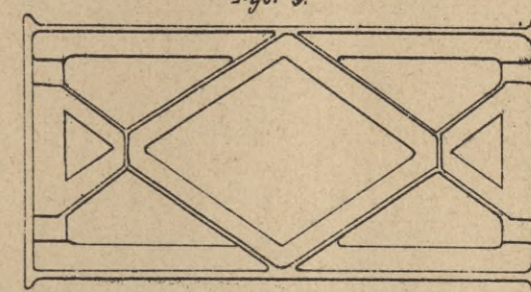


rys. 1c, Rzad poziomy.

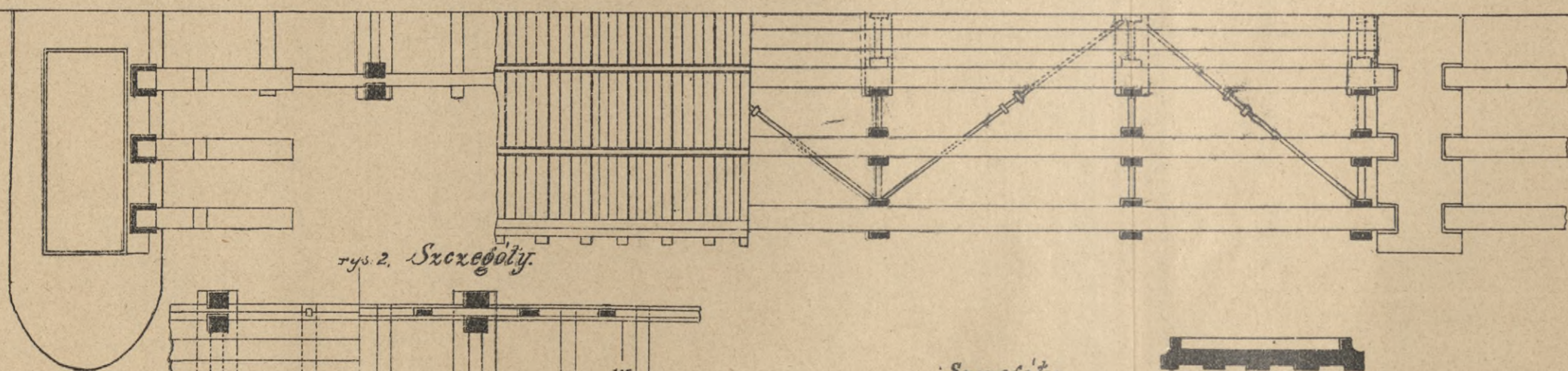
rys. 1b, Przekrój poprzeczny.



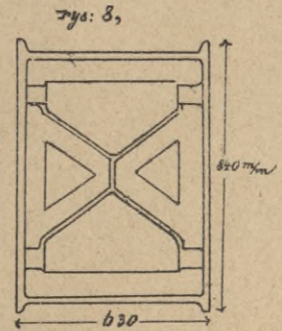
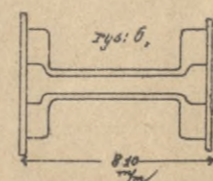
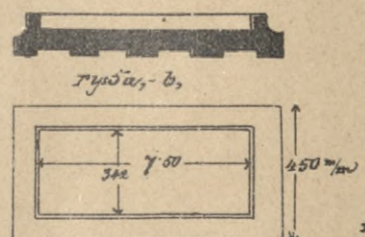
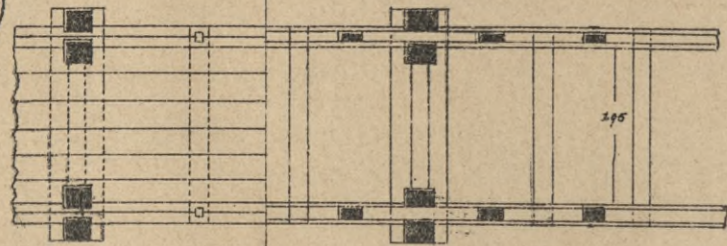
rys. 9.



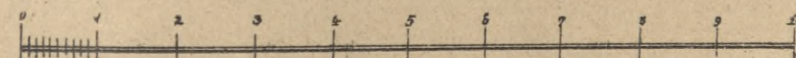
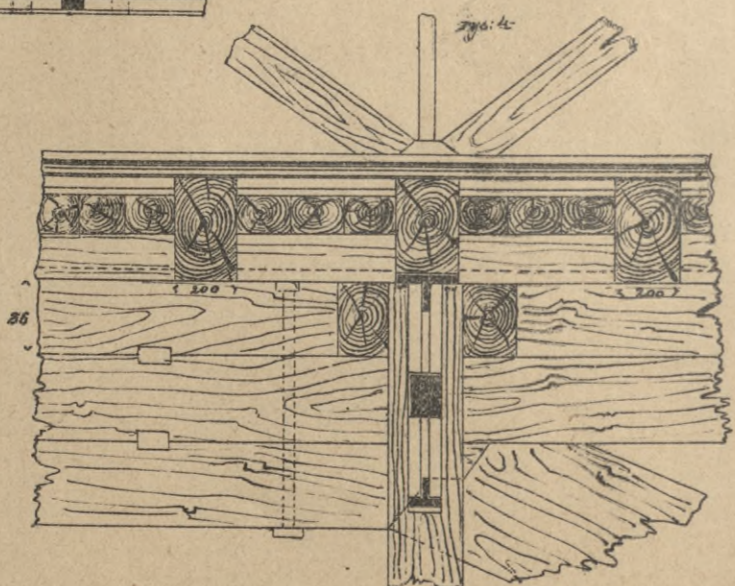
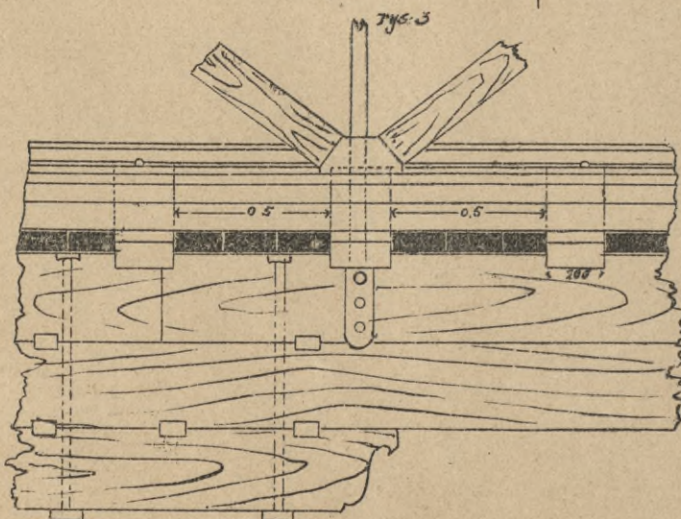
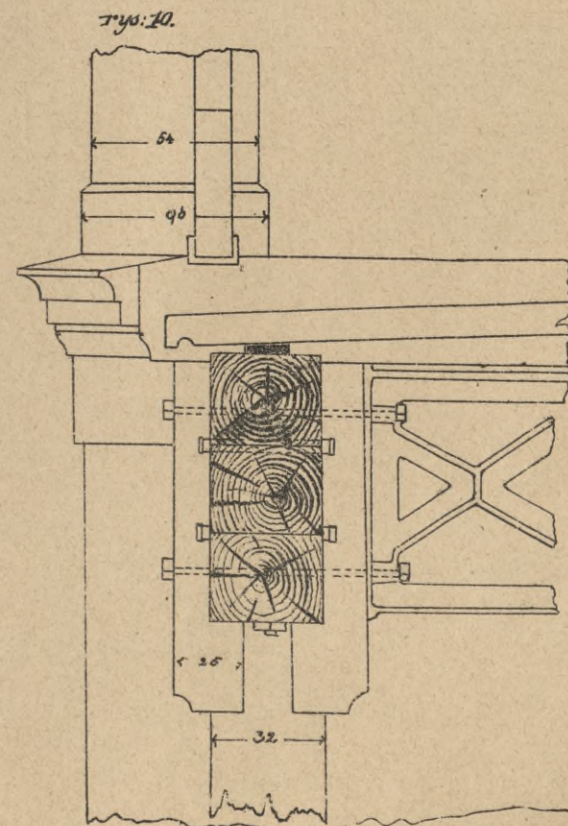
rys. 2, Szcegóły.



Szczegół



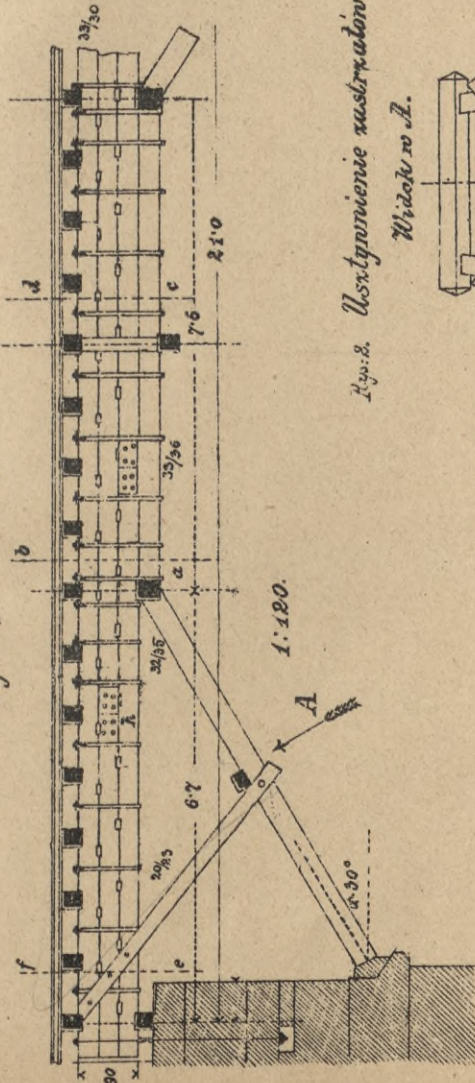
Szczegół



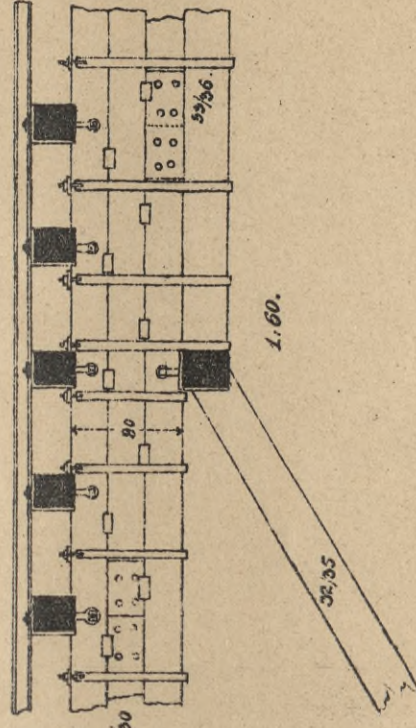
Skala 1:100
Szcegóły 1:35.

WIESZAR TRAPEZOWY.

Rys. 1a, Widok.

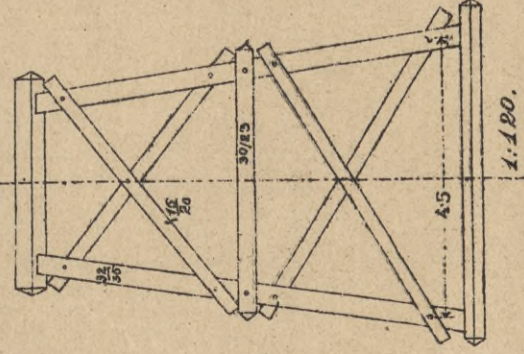


Rys. 1b, Szczytół.



Rys. 2, Usztywnienie nastrojowników.

Widok w A.

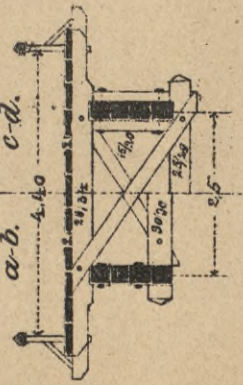


Przekroje poprzeczne.

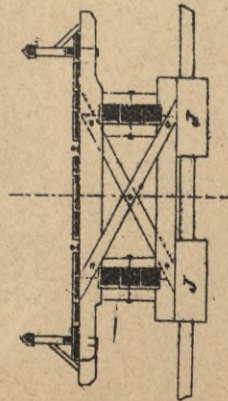
1:120.

Rys. 3a, Przekroj.

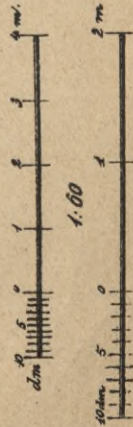
a-b, c-d.



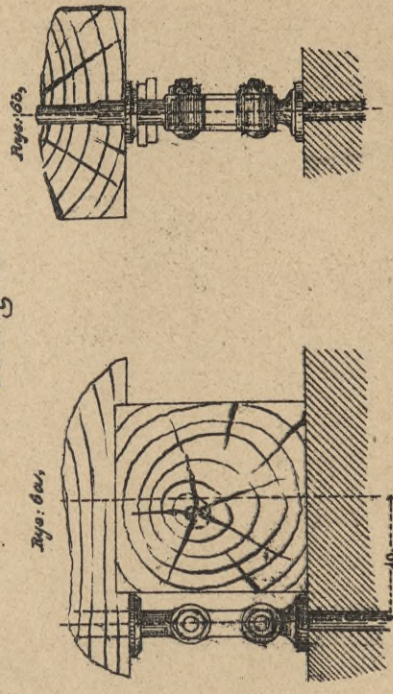
Rys. 3b, Przekroj e-f.



Skala 1:120



Szczytół.



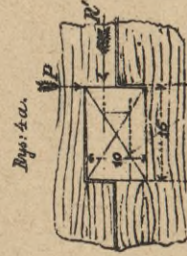
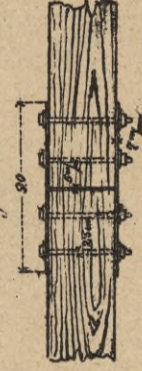
Szczytóły.

Rys. 5a,



1:40

Rys. 5b.

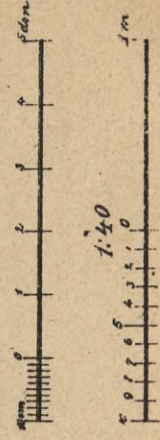


1:40.

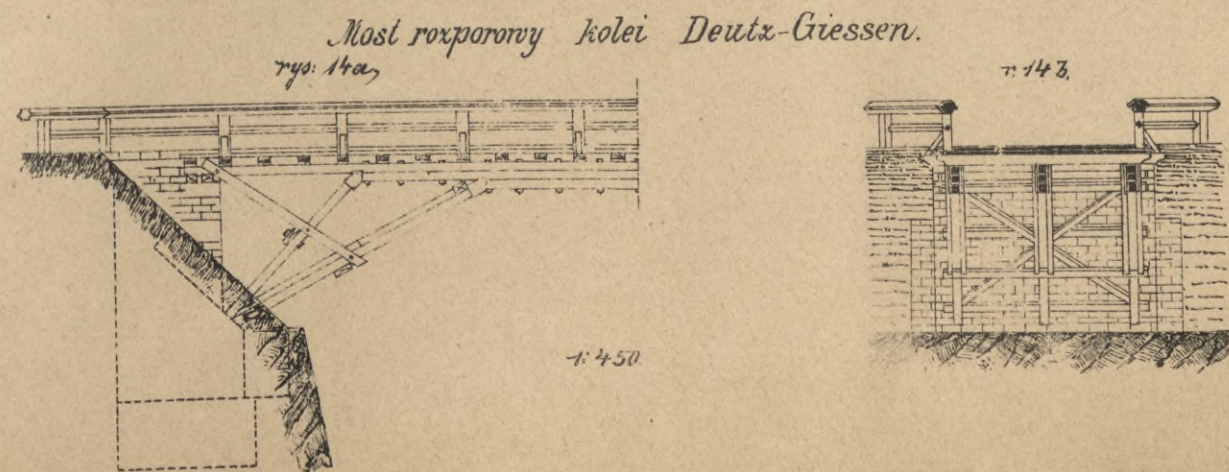
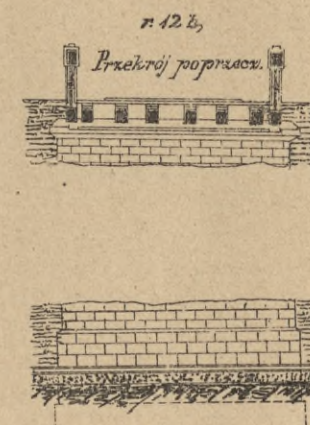
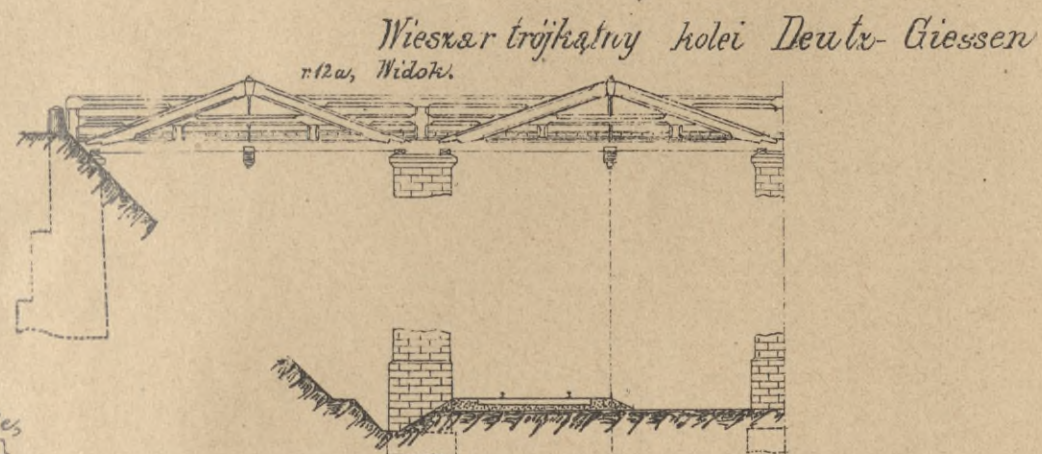
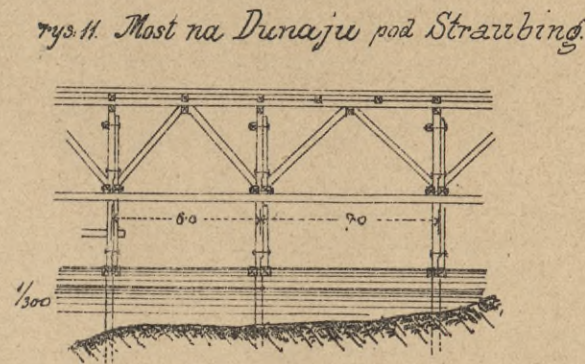
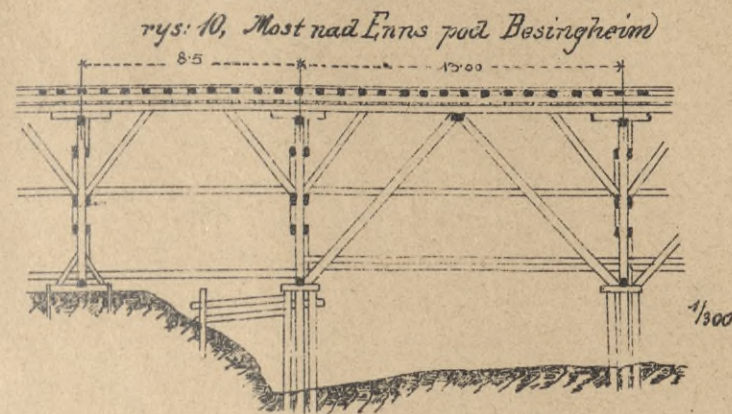
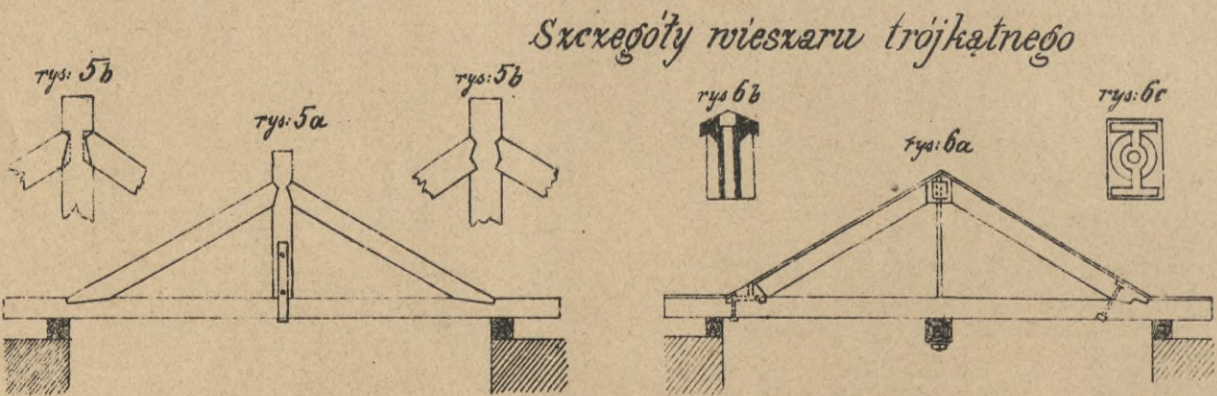
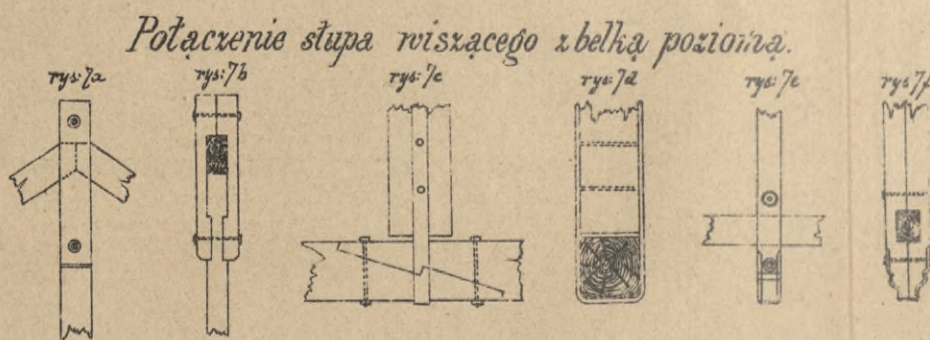
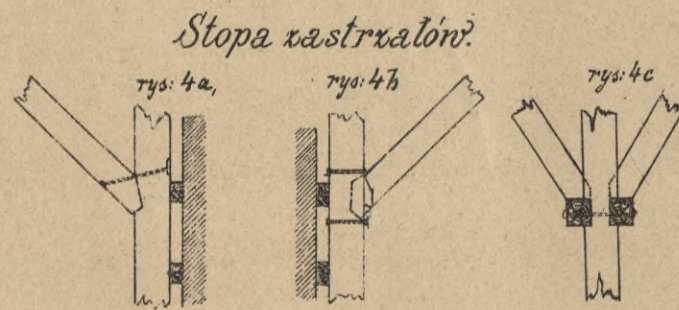
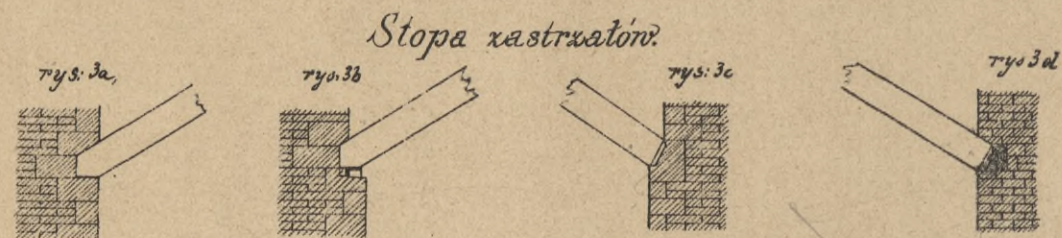
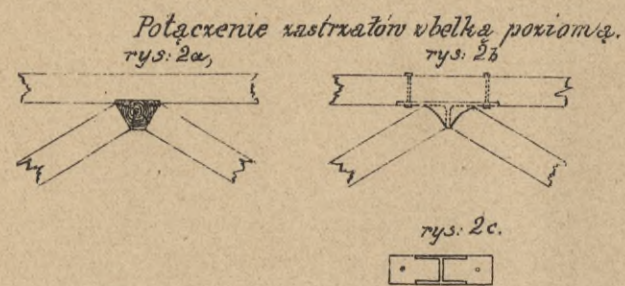
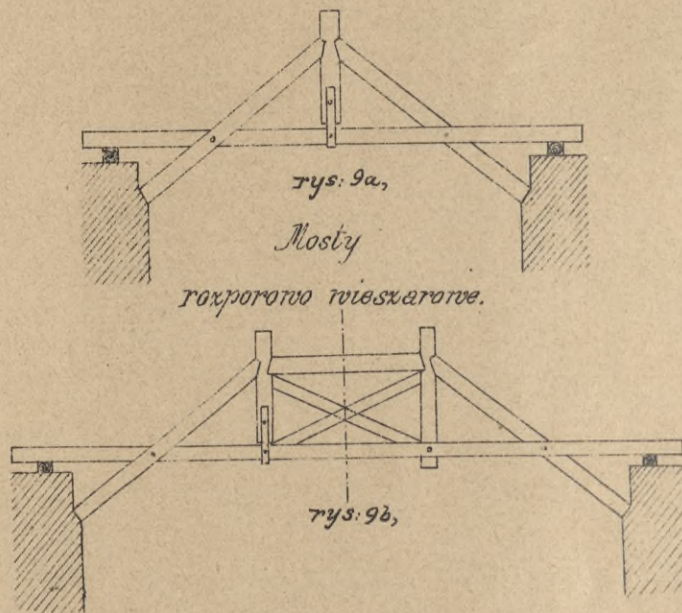
Rys. 4b.



Skala 1:120,

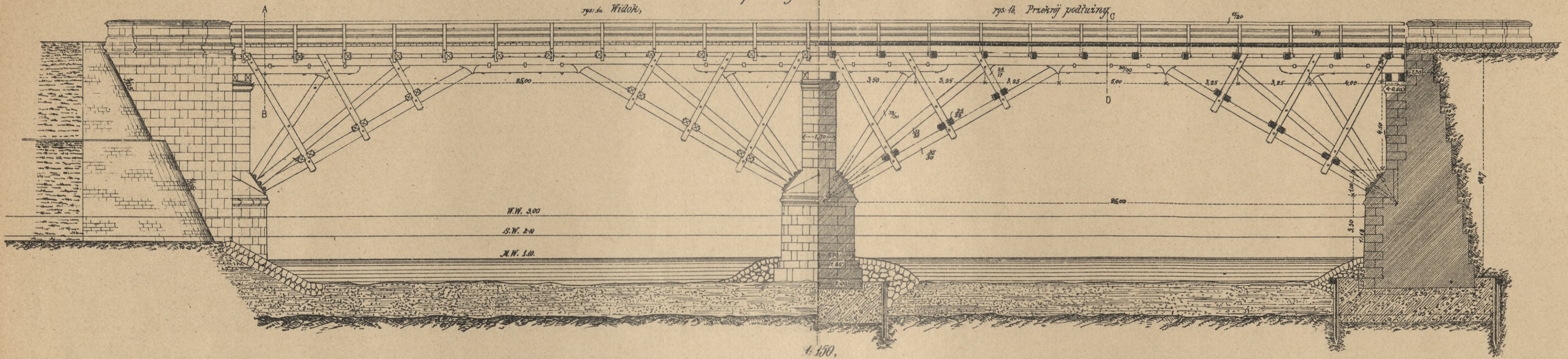


ROZPORNICE I WIESZARY.

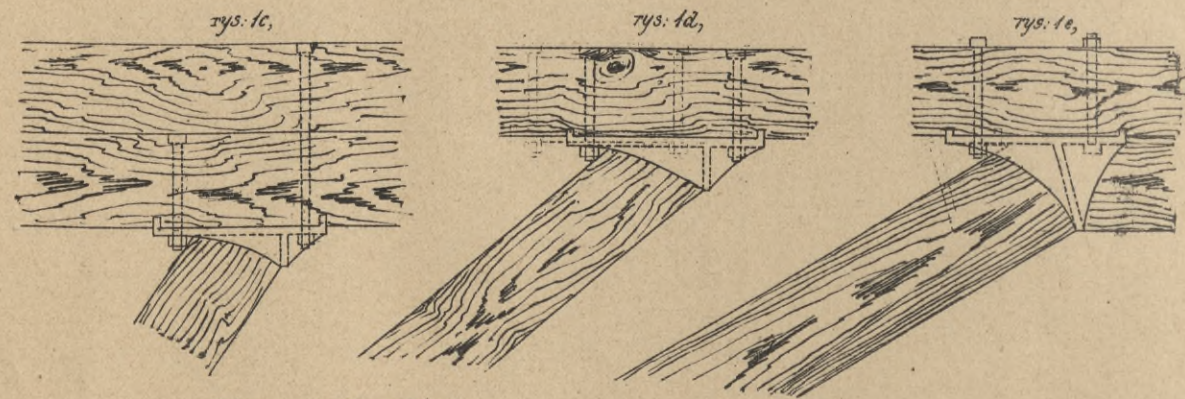


MOSTY ROZPOROWE

Most rozporowy niemiecki.

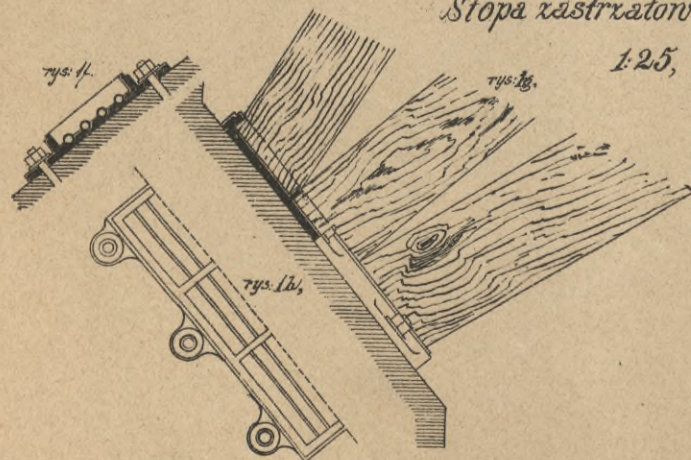


Głowa kastraton



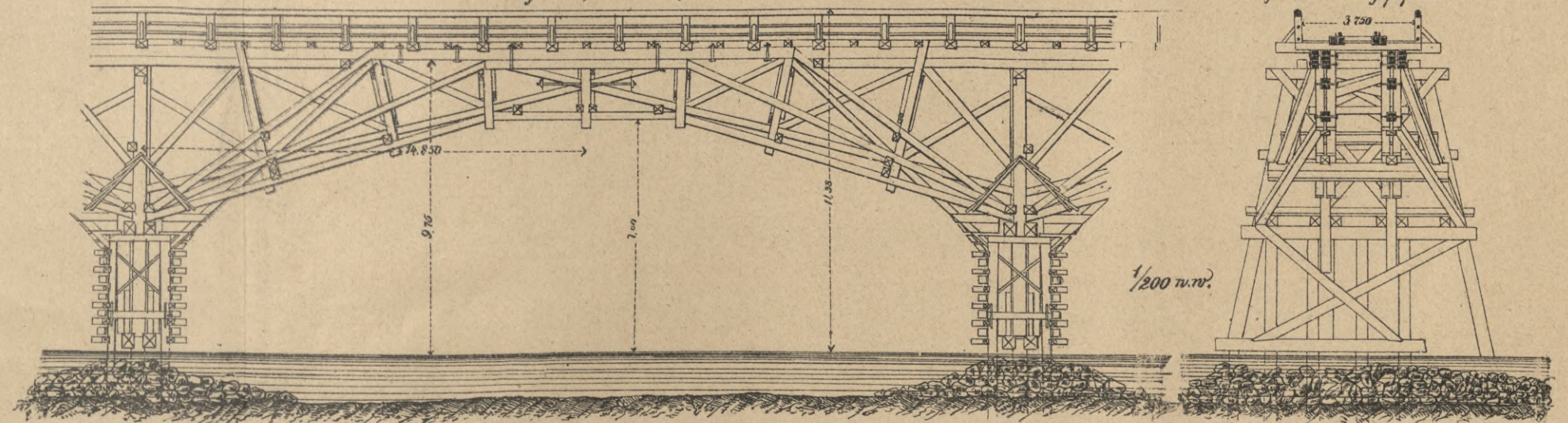
Stopa kastraton

1:25,



Most tymczasowy na Neckarze. (Rozporowica wieloboczna)

rys. 2a, Widok



rys. 2b Przekroj poprzeczny

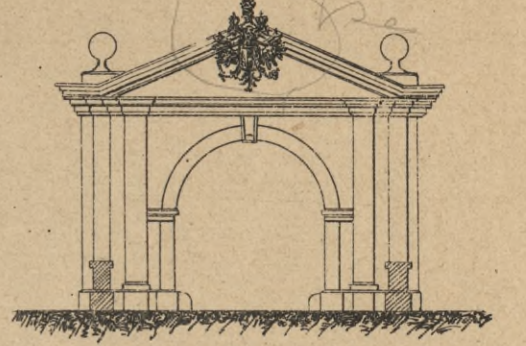
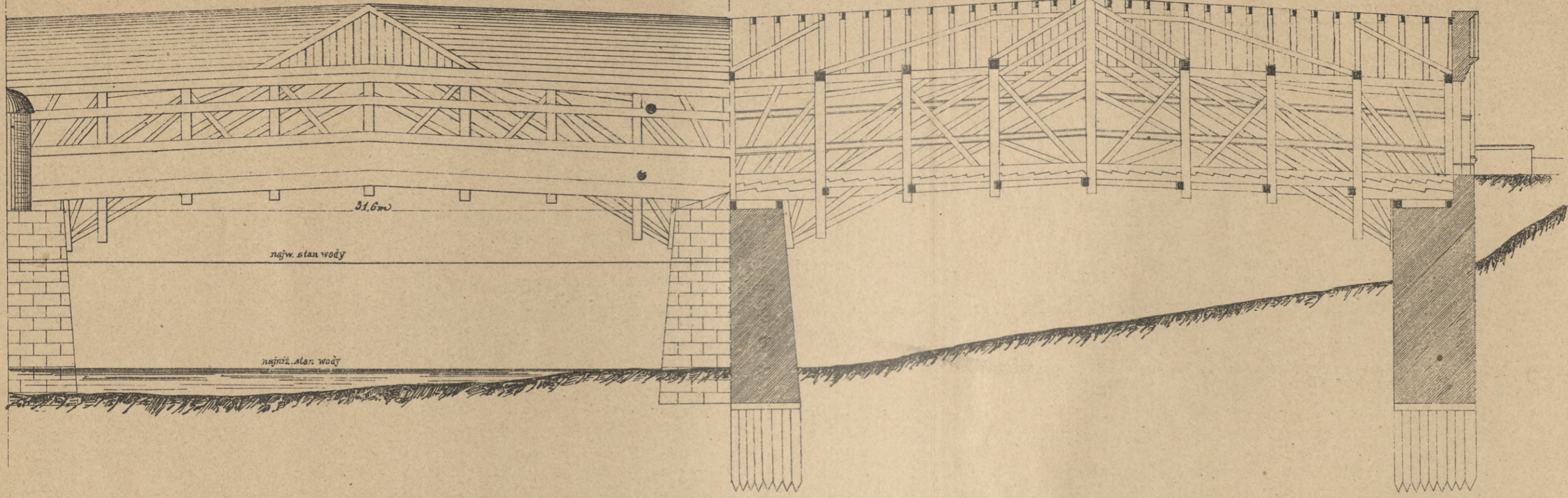
1/200 n.v.

MOST NA SANIE W PRZEMYŚLU ZBUD. W R. 1779; ZBURZ. PRZEZ W. WODĘ W R. 1845.

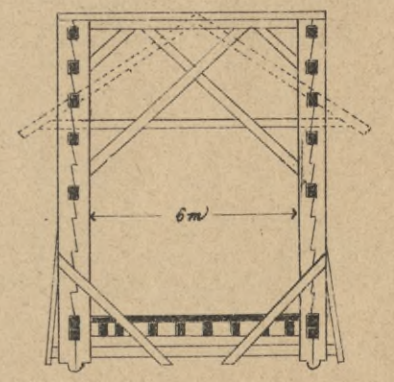
Widok 3^{ty} przęsła
Fig. 1a,

Przekrój 4^{ty} przęsła
Fig. 1b

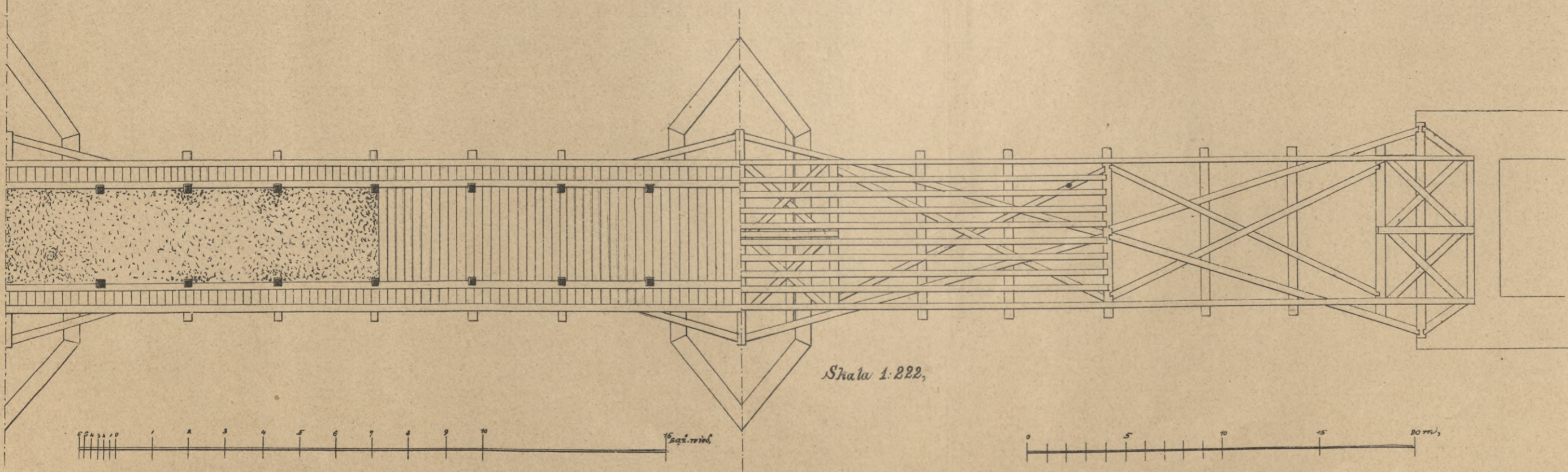
Portal
Fig. 2,



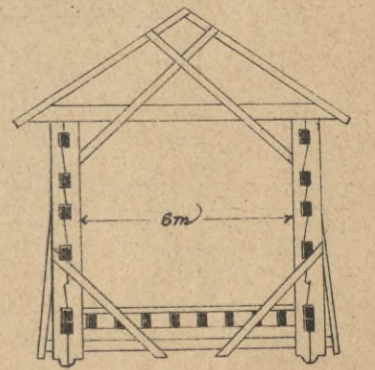
Przekrój A-B,
Fig. 3a,



Rys. 4a-b, Rzut poziomy.

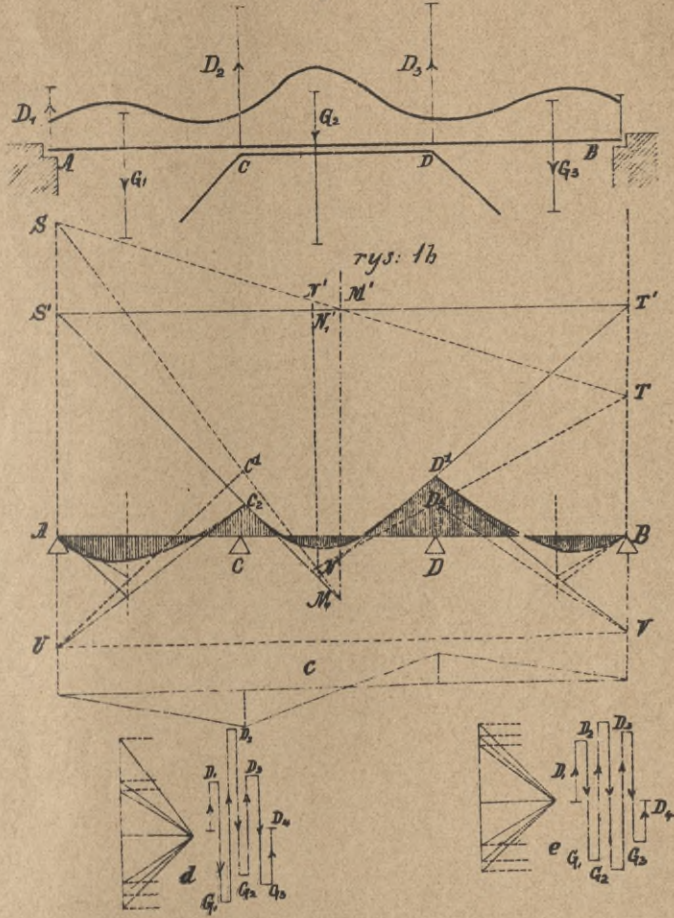


Rys. 3b, Przekrój C-D.



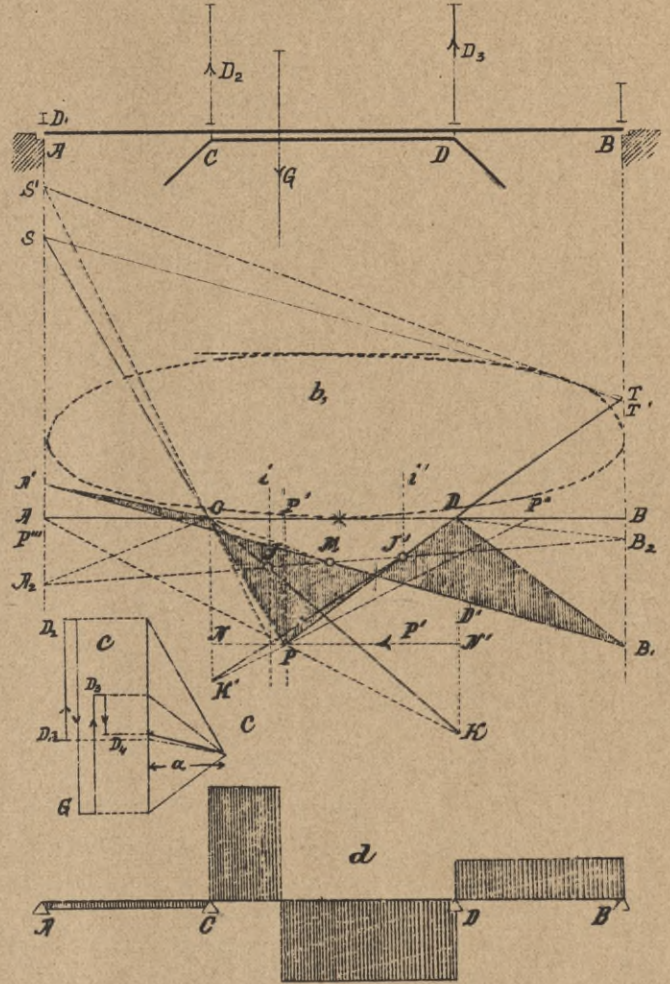
OBLICZENIE ROZPORNICY TRAPEZOWEJ

rys. 1a.

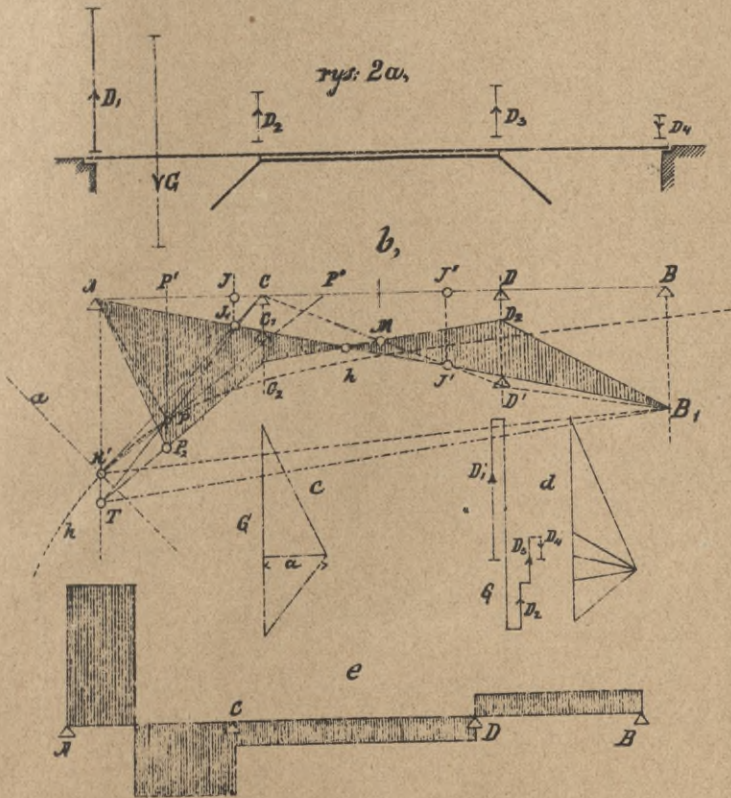


rys. 1b

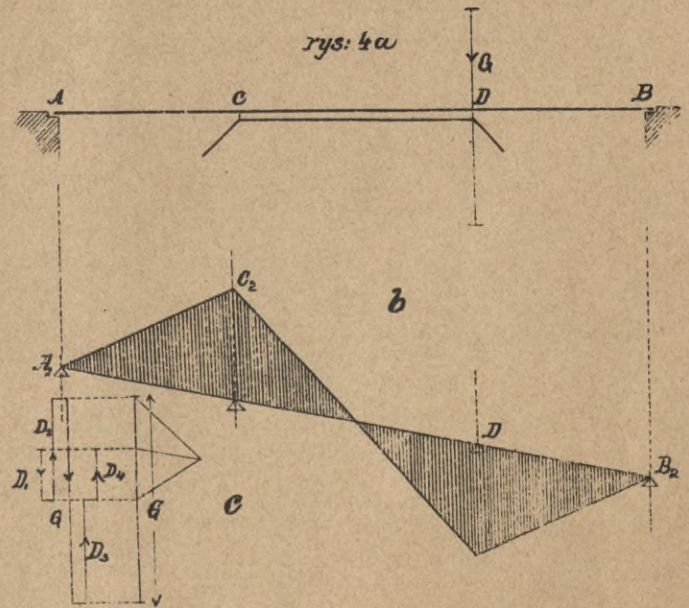
rys. 3a.



rys. 2a.



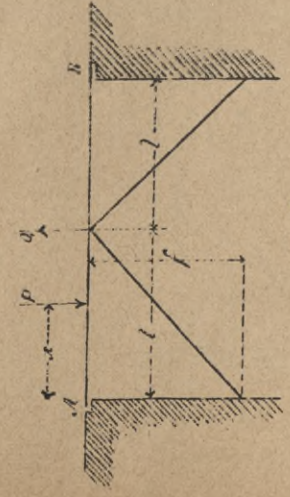
rys. 4a.



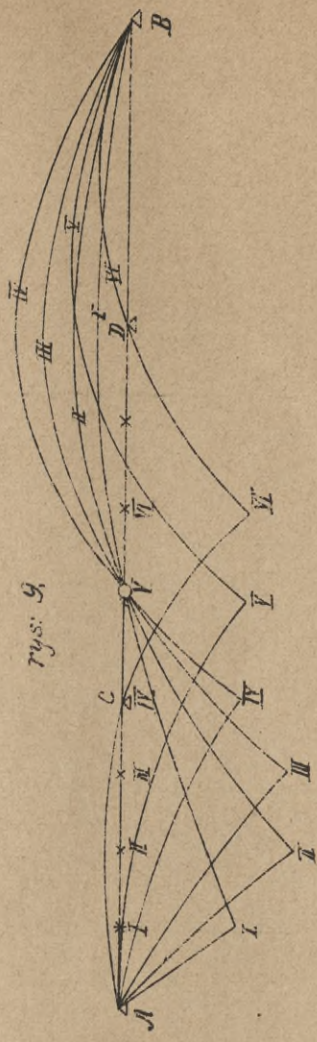
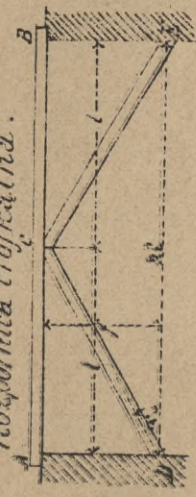
rys. K.

OBLICZENIE WYKRĘSLNE ROZPORNIC.

Rys. 2.



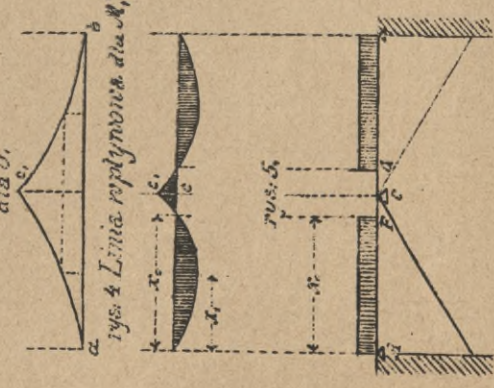
Rys. 1.
Rozporna trójkatna.



Rys. 9.

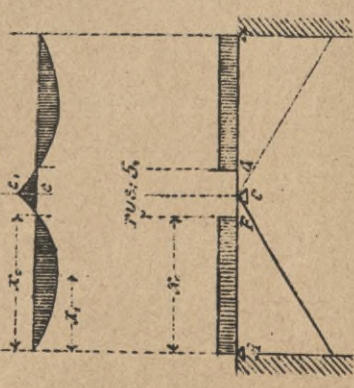
Rys. 3.

Linia rozpornowa dla D.

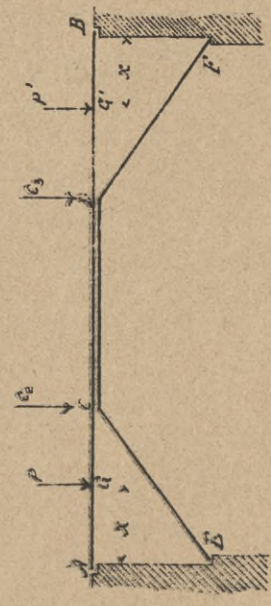


Rys. 4

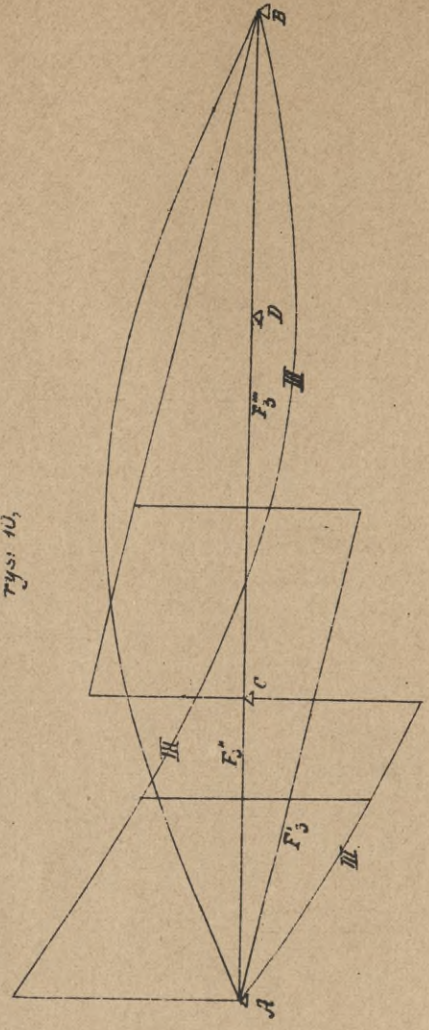
Linia rozpornowa dla M.



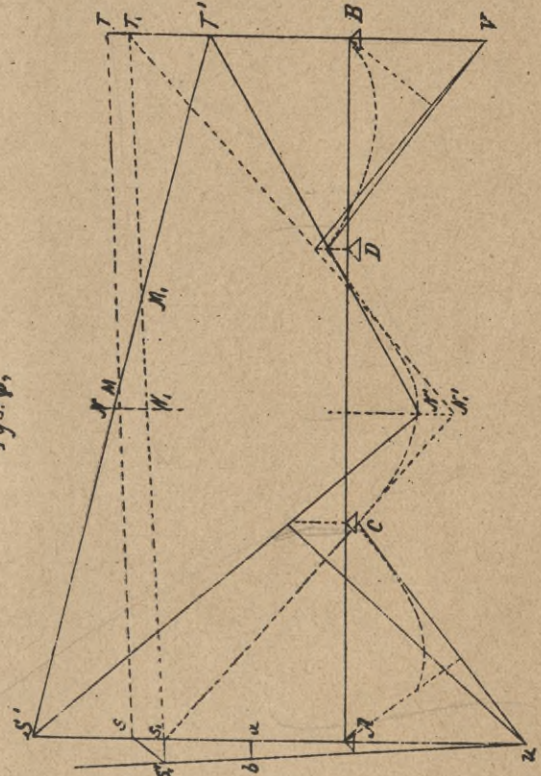
Rys. 6.



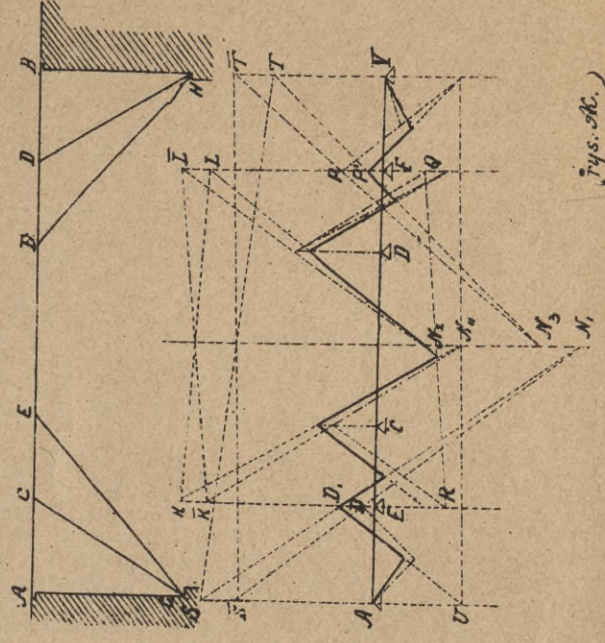
Rys. 10.



Rys. 8.



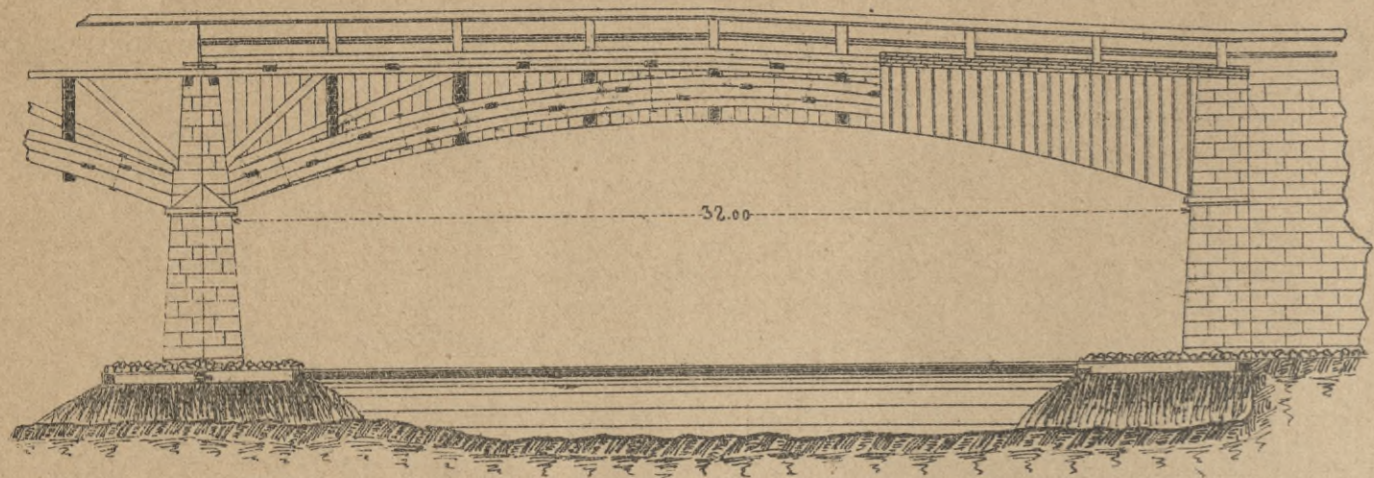
Rys. 11.



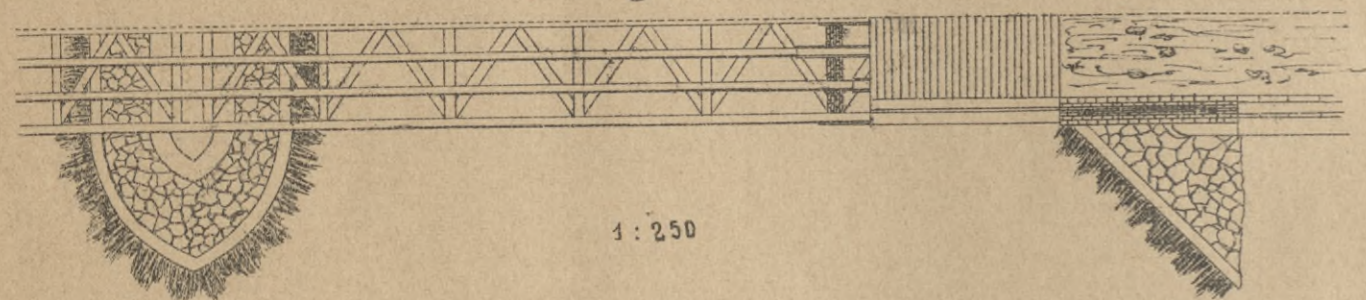
Rys. 12.

Most na Innie pod Stulstein.

rys. 1.a.

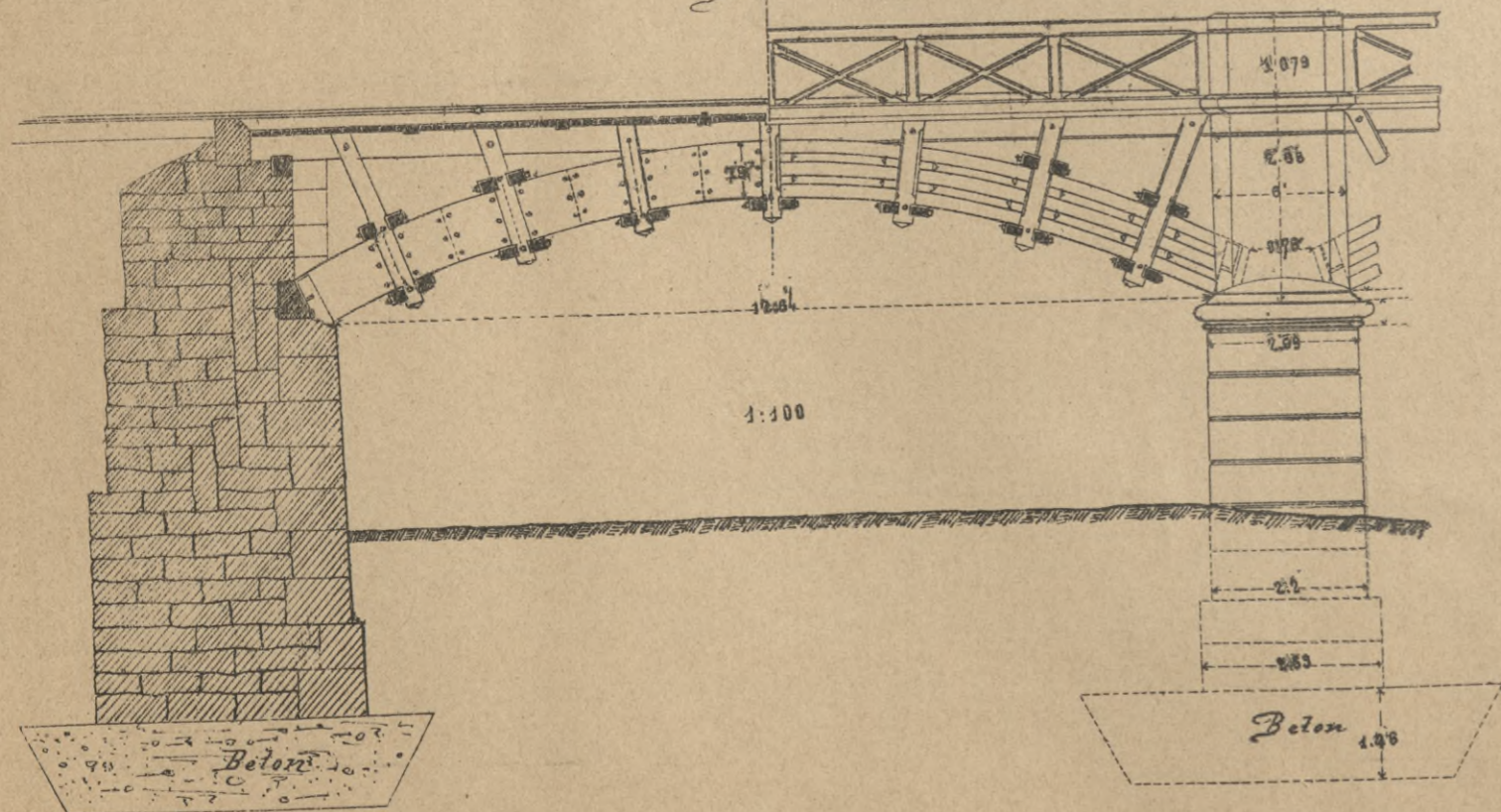


rys. 1.b.



Most łukowy giętki.

rys. 3.

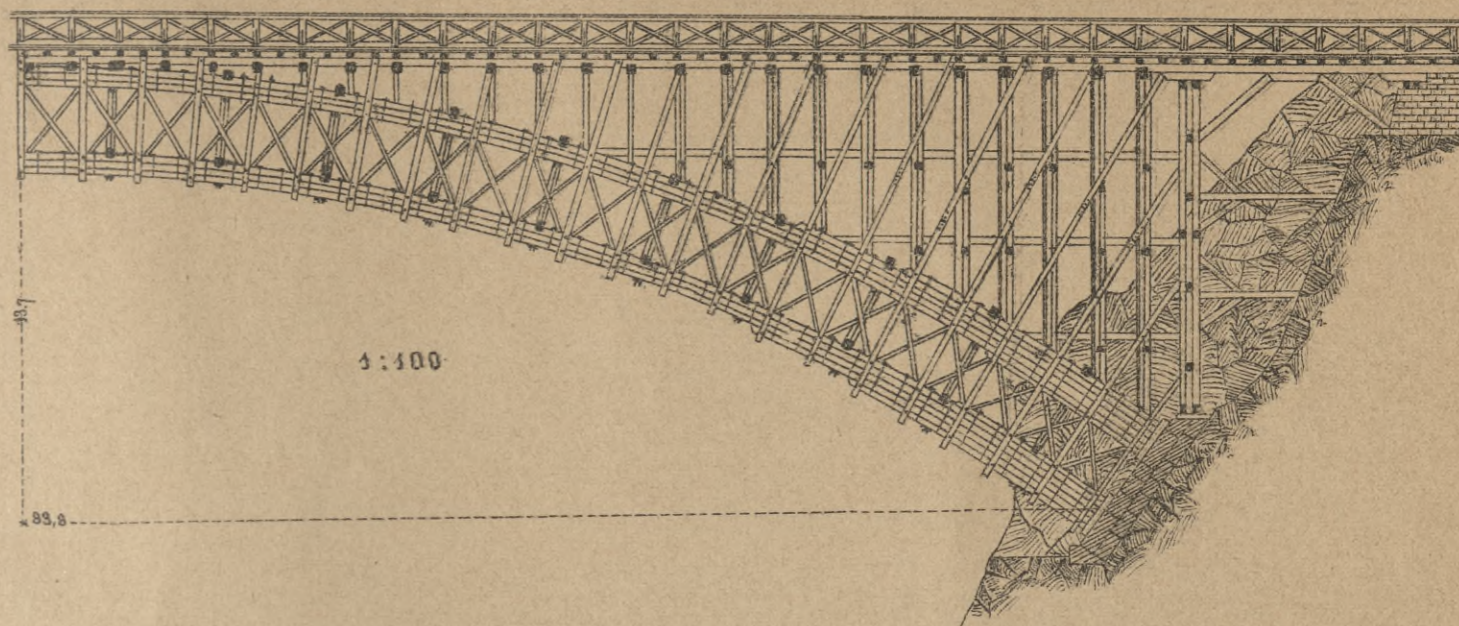


Thullie Mosty drewniane II.

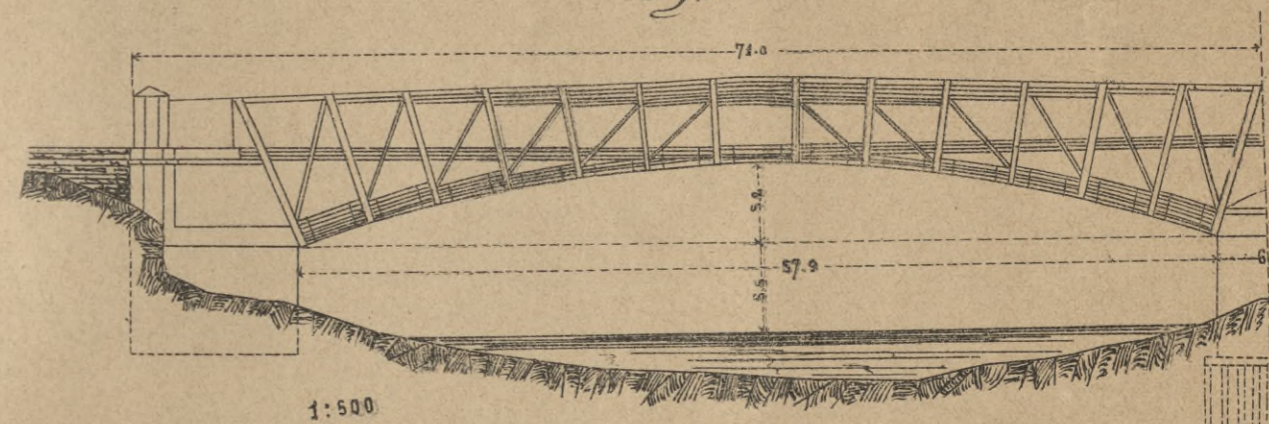
MOSTY ŁUKOWE.

Most wodospadowy.

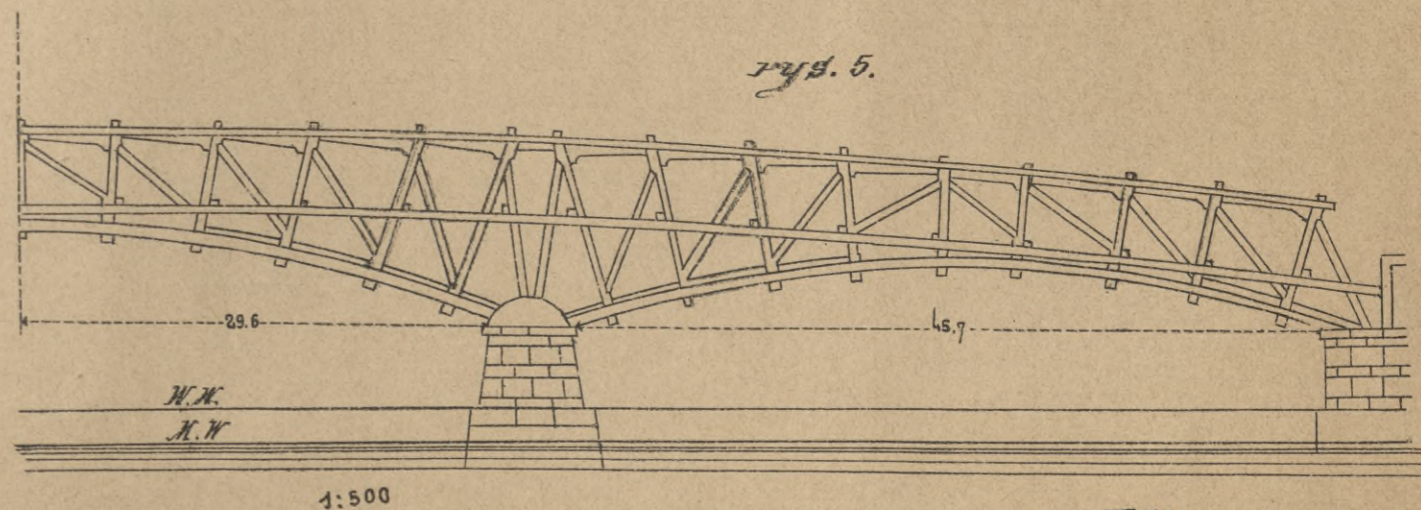
rys. 2.



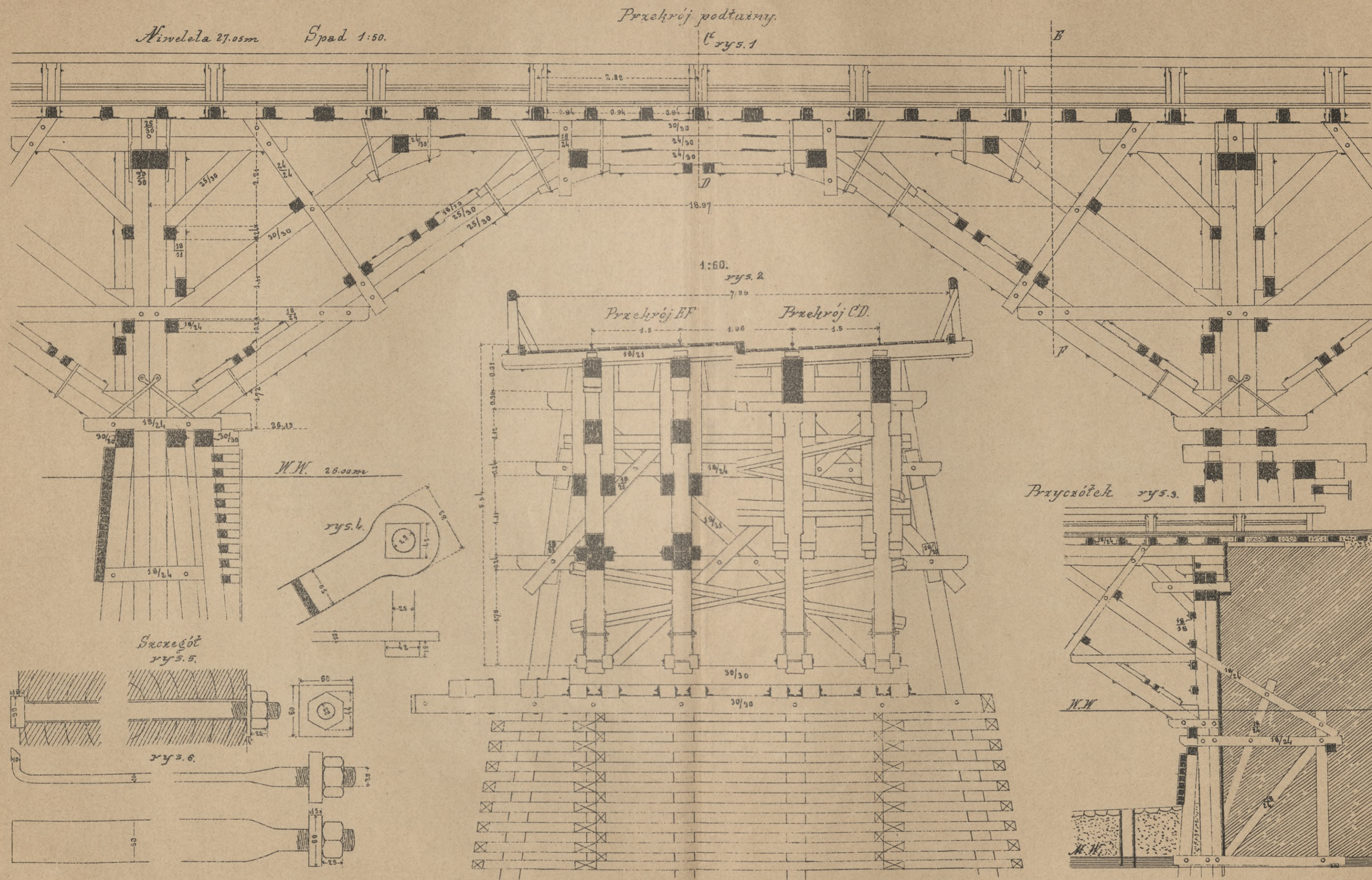
rys. 4.



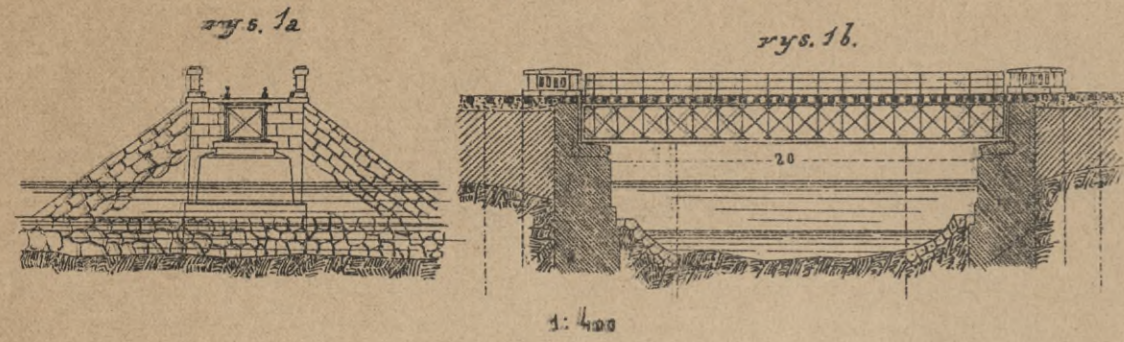
rys. 5.



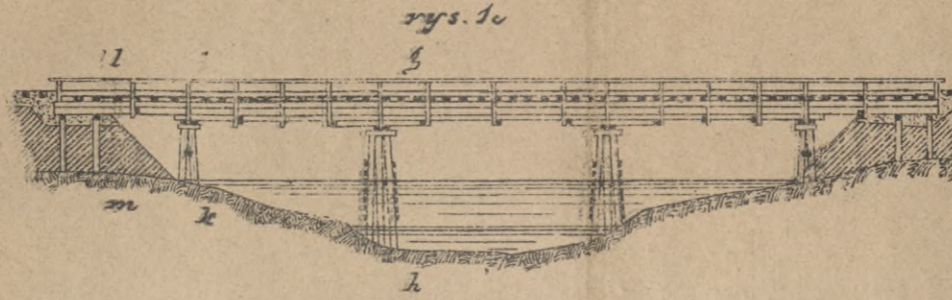
rys. P.II.



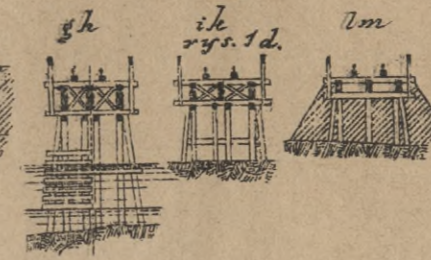
Most stalny żelazny o rozp. 20m



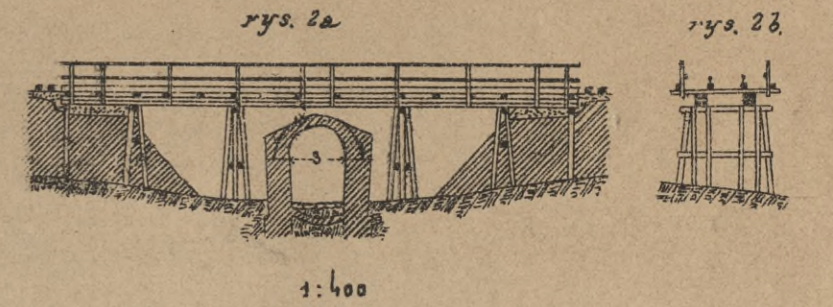
Most tymczasowy drewniany



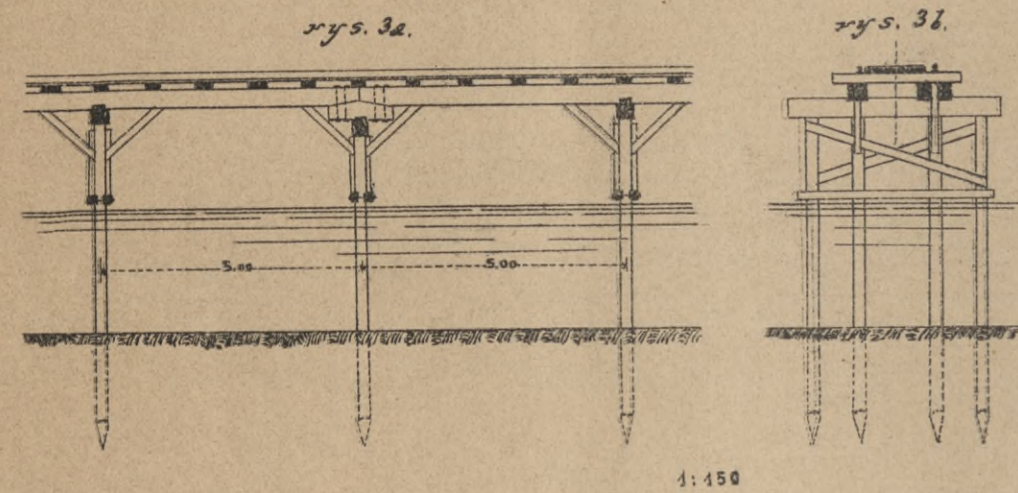
Przekroje



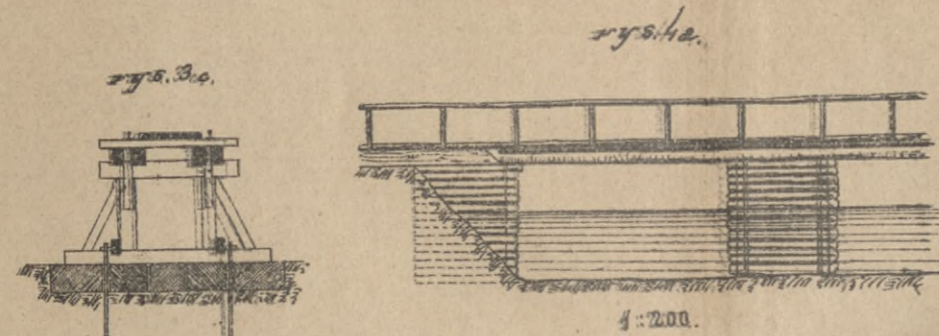
Most tymczasowy podczas budowy porzepondu.



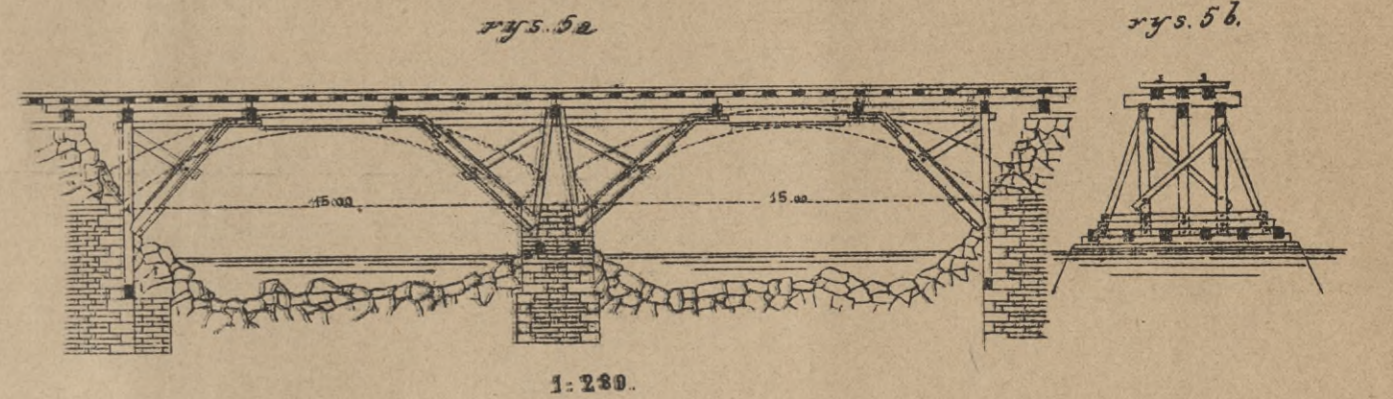
Most wojenny na Moseli w Pont-a-Mousson.



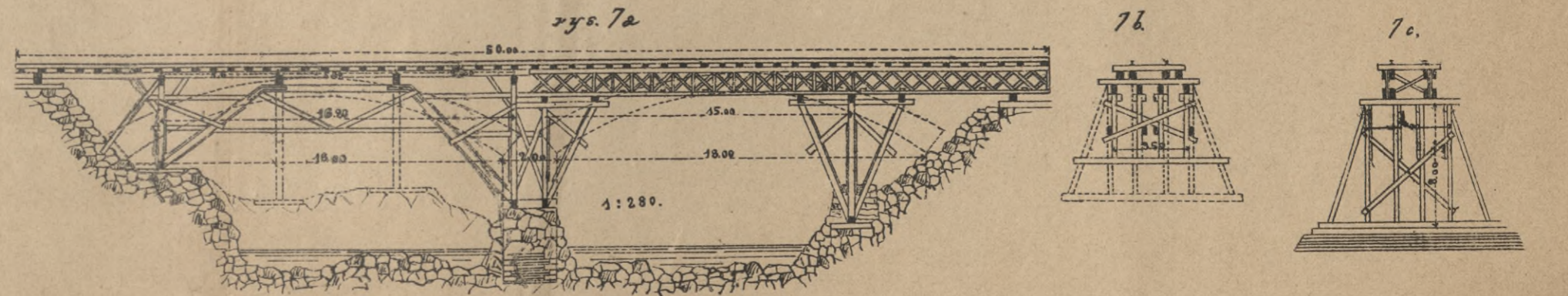
Most tymczasowy drogowy.



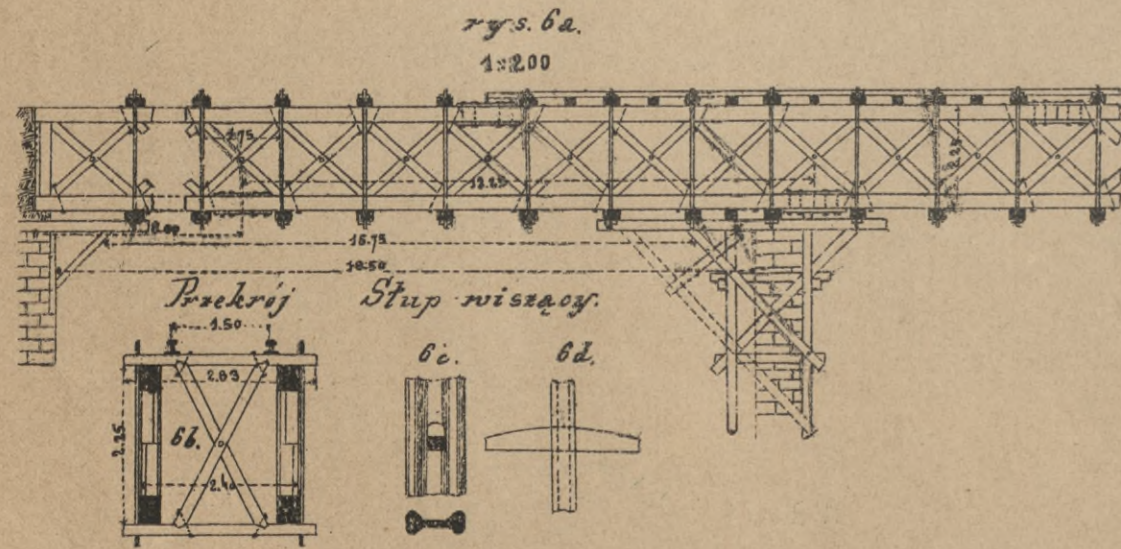
Most tymczasowy na Marnie pod Fontaines



Most tymczasowy na Marnie pod Villiers.



Most krakowscy wojenny.



BIBLIOTEKA POLITECHNICZNA KRAKÓW

5. 61

Biblioteka Politechniki Krakowskiej



10000249940

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IV-300753

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