WA
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Afd. Weg en Waterb. kunde

IRRIGATIE
Afd. Weg en Waterb. kunde

WA alg. 1

BOUWKUNDIG ALBUM

Verzameling van Ontwerpen

uitgevoerd door den

Waterstaat

en 's Lands Burgerlijke Openbare Werken

in

Nederlandsch-Indië.

Bijeengebracht door K. A. BERKHEMER,
Architect der B. O. W.

Uitgegeven door de Vereeniging van Bouwkundigen in Nederlandsch-Indië.

LITH. E. FUHRI & Cº SOERABAYA

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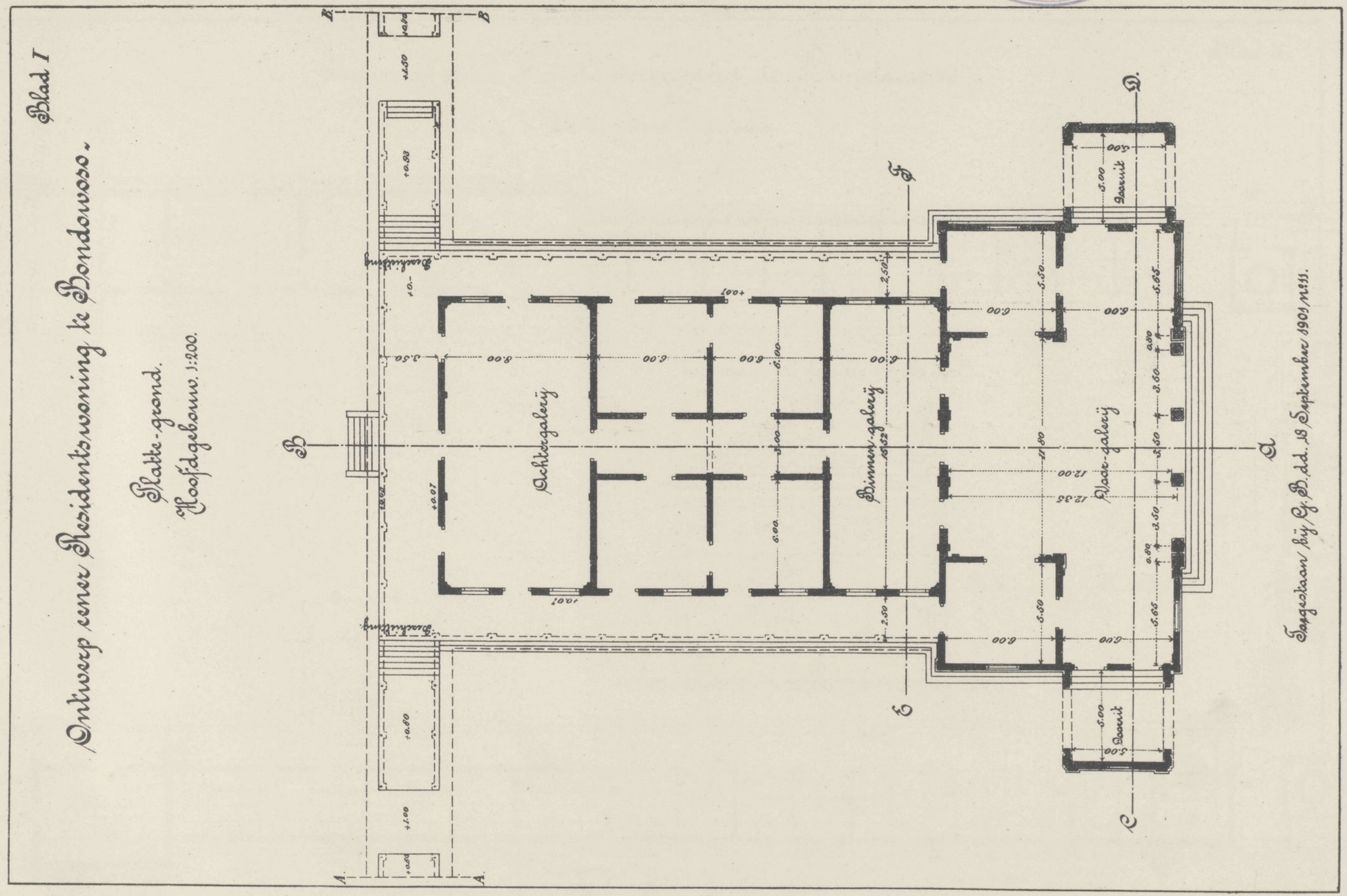
Technische Hoogeschool IRRIGATIE Afd. Weg- en Waterbouwkunde

Nummers der platen.	Omschrijving der platen.	Nummers der platen.	Omschrijving der platen.	Nummers der platten.	Omschrijving der platen.
1.2.3.4.5.6.7.8.9	Residentswoning te Bondowoso.	54.	Brug Sarie Lawek (Sarik Lawas n°122) Sadangsche boven landen.	70.	Irrigatiewerken Warcedjajeng-Hertosono. Sijphon bij Km: 19+055 Kw: n°46.
10.	Controleurswoning te Nieuw Guinea.	55.	Brug Sebel I n° 12, gelegen in den weg van Bareng naar Ngoro afdeeling Modjokerto.	71.	Afsluiting van den mond der kalie Blawi (Sluis kroewe).
11.12.13.14.15.16.17.	Regentswoning te Bondowoso.	56.	Betonbrug bij Km: 0+351 Kw: n°26. Warcedjajeng-Hertosono werken.	72.73.	Ontwerp van een houten Aquaduct bij dessa Glenggeng (Rengel).
18.19.20.21.22.—	Ontwerp Residentiekantoor te Bondowoso.	57.	Steenen hoogbrug Bering n°1, over de Kalie Amprong gelegen in den weg van Kedoengkandang via Dempalwadak naar Modjokerto. Steenen hoogbrug Dedal Sabelan.	74.75	Irrigatiewerken Warcedjajeng-Hertosono. Stortdam bij Km: 9+210 Kw: n°9.
23.24.	Assistent Residentiekantoor te Tjiandjoer.			76.	Bevloeiing uit de kalie Tengah leiding. Aquaduct over de kalie Watescirah Kw: n° III.
25.26.27.28.29.30.31.	Post-en Telegraafkantoor te Semarang.			77.78.79.80.	Irrigatiewerken Warcedjajeng-Hertosono. Uitwateringsluis.
32.33.34.	Post-en Telegraafkantoor tevens woning van den Chef te Kedksaän.	58	Brug Tjitatih II B n°27 in den militairen weg van Sukabumi naar Buitenzorg. Brug Sarse B5 in den weg van Singit via Nglarangan naar Grabak.	81.	Irrigatiewerken in Samekasan. Verdeelsluis voor S8 Kw: S38.
35.36.	Post-en Telegraafkantoor der 3:kl: te Samarinda.			82.	Irrigatiewerken Warcedjajeng-Hertosono. Sinaverdeelwerk B5 bij Km: 7+250 Kw: n°63.
37.38	Landraadzaal te Demak.	59.	Brug Tidaran B17 in den weg van Matjelang over Soetjang naar Kajoepoering. — Steenen brug over de kalie Drogo nabij dessa Sestan. Brug Grabak I B n°10, gelegen in den weg van Grabak naar Nglarangan.	83.84.85.	Irrigatiewerken Warcedjajeng-Hertosono. Verdeelwerk in het hoofdkanaal bij Km: 16+960 Kw: n°20.
39.40.	Landraadgebouw te Toeloeng Agoeng.			86.87.	Bevloeiing uit de kalie Gandong. Aquaduct over de kalie Gandong Kw: V.
41.42.	School gebouw voor Europeesch lager Onderwijs te Marengan.			88.	Irrigatiewerken in Samekasan. Sijphon onder de Samiran-rivier bij Soemedangan en Inlaatsluis.
43.44.	School gebouw voor Europeesch lager Onderwijs ter hoofdplaats Madioen.	60.	Brug Djoerangpeteng n°473 Residentie Madioen.	89.	Bevloeiing uit de kalie Gandong. Goot en stortkak Kw: XII.
45.	School gebouw ter afd: hoofdplaats Soerabaia ter Residentie Banjoemas.	61.	Irrigatiewerken Warcedjajeng-Hertosono. Brug over het afvoer kanaal A1.	90.	Bevloeiing uit de kalie Tengah leiding. Overlaat Kw: n°1.
46	Verplaatsbaar wachthuisje voor het district Kotta Soerabaia.	62.	Steenen duiker in den weg D bij Km: 6+265. Warcedjajeng-Hertosono werken.	91.	Bevloeiing uit de kalie Tengah leiding. Brug en verdeelsluis Kw: n° V.
47.	Stoombrandspuithuisje en handbrandspuithuisje ter hoofdpl: Soerabaia.	63.	Houten brug Kajoen wetan n°8. afd: Grisse. Waterwerken oost Semarang. Verdeelwerk in de Sambakselo leiding.	92.93.	Drinkwatervoorziening van Magetan. Bronreservoir Kw: n°1.
48.	Haven kalie Boentoe, afd: Krakoaän Los en laadhoofd en slepenloods.			94.	Drinkwatervoorziening van Magetan. Aquaduct Kw: n°2.
49.	Steenkolenloodsen te Merauke.	64.	Schroefpaal brug Kedoengpring III n°38 afd: Lamongan.	95.	Drinkwatervoorziening van Magetan. Tusschen reservoir A. Kw: n°3.
50.	Ijzeren balkbrug op bloklandhoofden.	65.	Schroefpaal brug Tjimoentoer-hilir.	96.	Drinkwatervoorziening van Magetan. Tusschen reservoir B. Kw: n°4.
51.	Type van een Grondduiker.	66.	Benoodigheden voor schroefpaaljukken. Verschillende verbindingen schroefpaaljuk voor groote hoogte.	97.	Drinkwatervoorziening van Magetan. Verzamel reservoir Kw: n°5.
52.	Brug bestaande uit steenen landhoofden en zoris ijzeren dek zonder liggers.	67.	Brug met gewavende ijzeren liggers van 15. M spanning.	98.	Drinkwatervoorziening van Magetan. Straatfontein. Veiligheidsklep op hoofdkuis.
53.	Betonkuis duikers.	68.	Houten hangwerkbrug Tjihidong-ilir.	99.	Ijzeren leuningen.
		69.	Twee tralie bruggen van 24 en 31 M. lengte.	100.	Ontwerp van een brug met steenen landhoofden ijzeren liggers en zoris ijzeren dek.

Technische Hoge IRRIGATIE Afd. Weg en Waterbouw

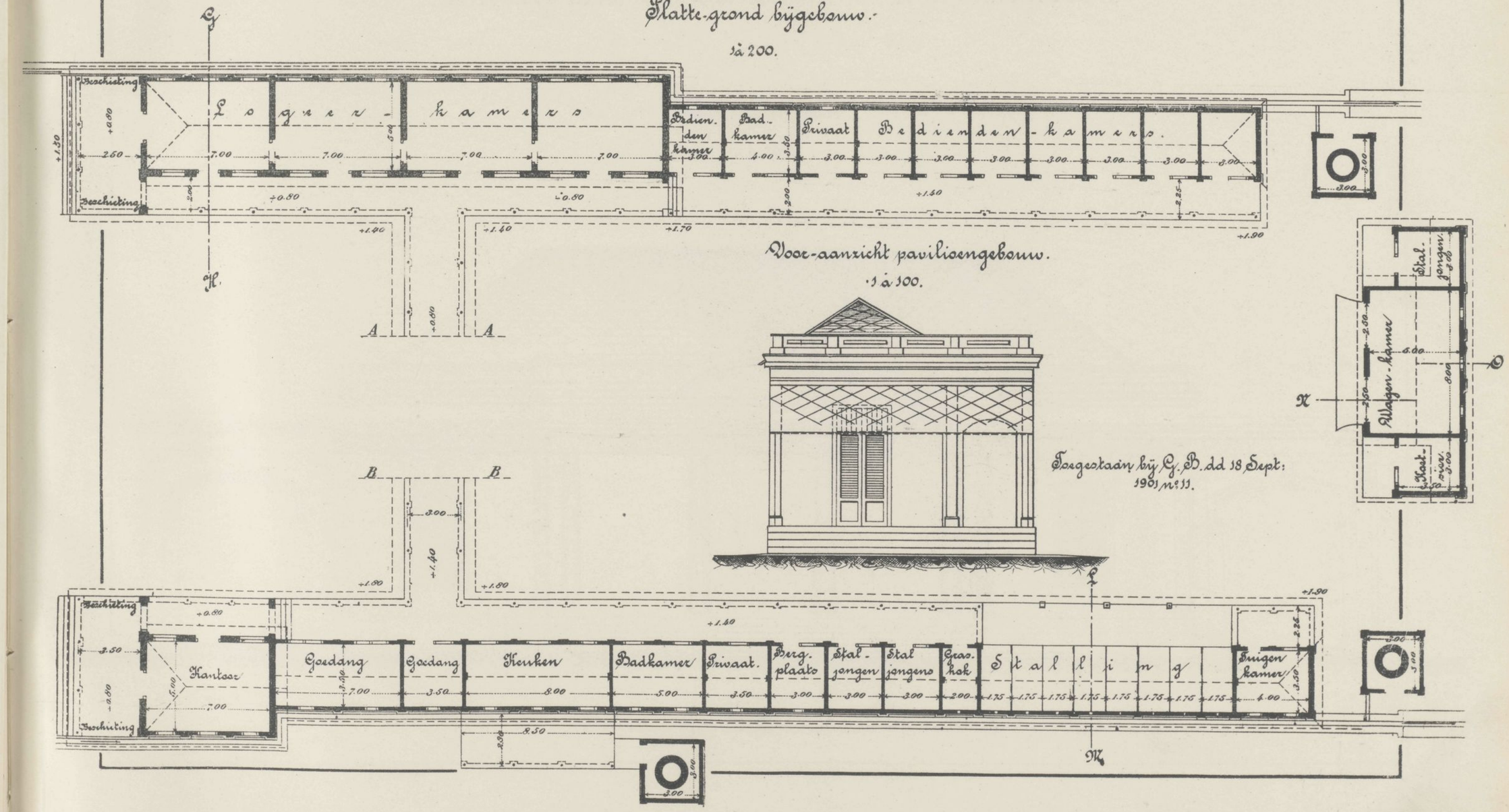


Blad II.

Ontwerp eener Residentswoning te Bondowoso.

Platte-grond bijgebouw.

1 à 200.



Voor-aanzicht pavilioengebouw.

1 à 100.

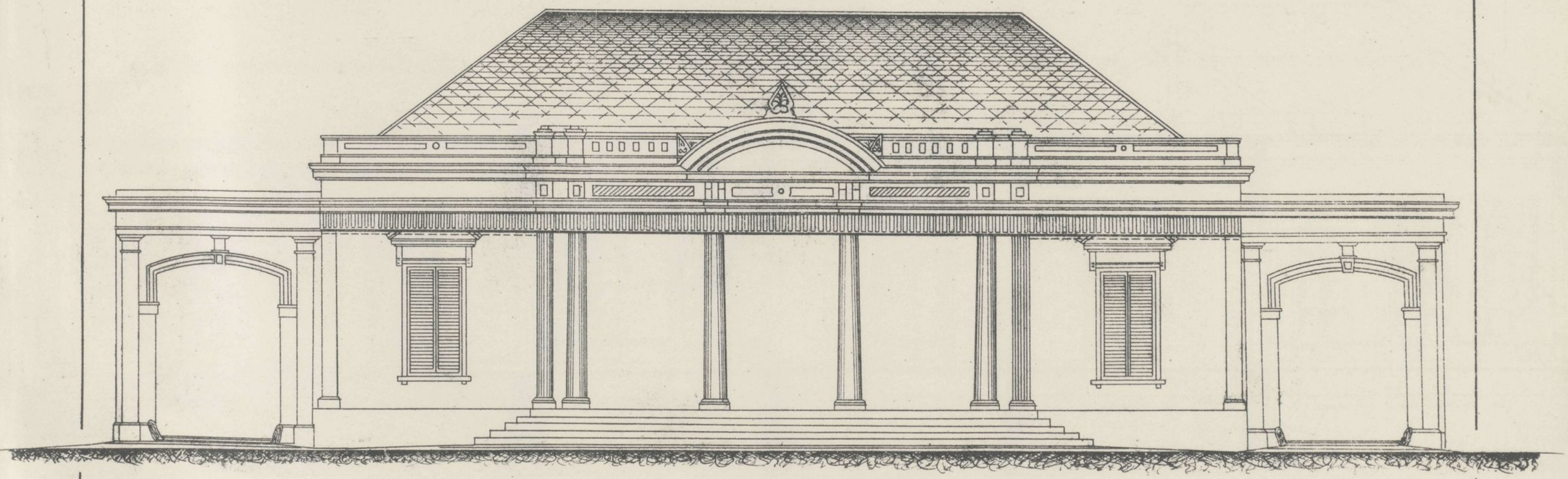
Toegestaan bij G. B. dd 18 Sept: 1901, N°. 11.

Blad III.

Ontwerp eener Residentswoning te Bondowoso.

Voor-aanzicht.

1 a 100.



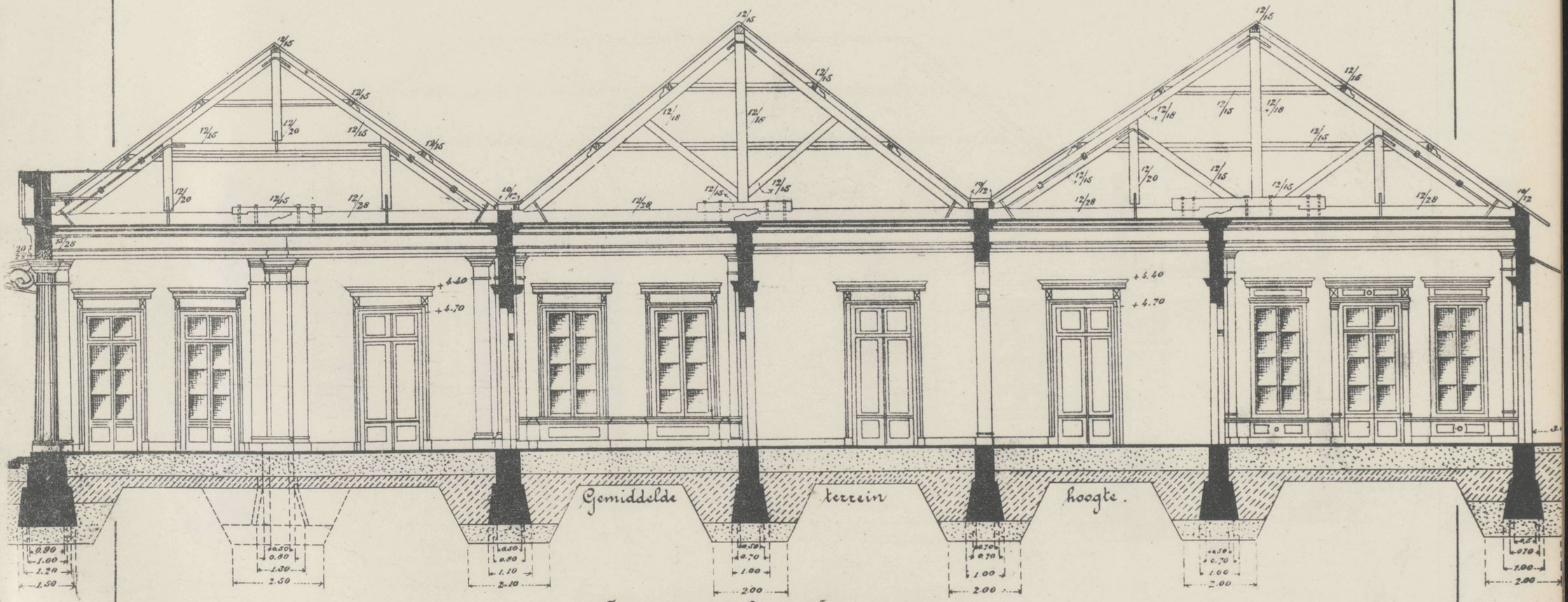
Toegestaan bij G. B. dd. 18 September 1901, No. 11.

Blad IV.

Ontwerp eener Residentswoning te Bondowoso.

Langsdoorsnede A. B.

1 à 100.



Toegestaan bij G. B. dd. 18 September 1901, No. 11.

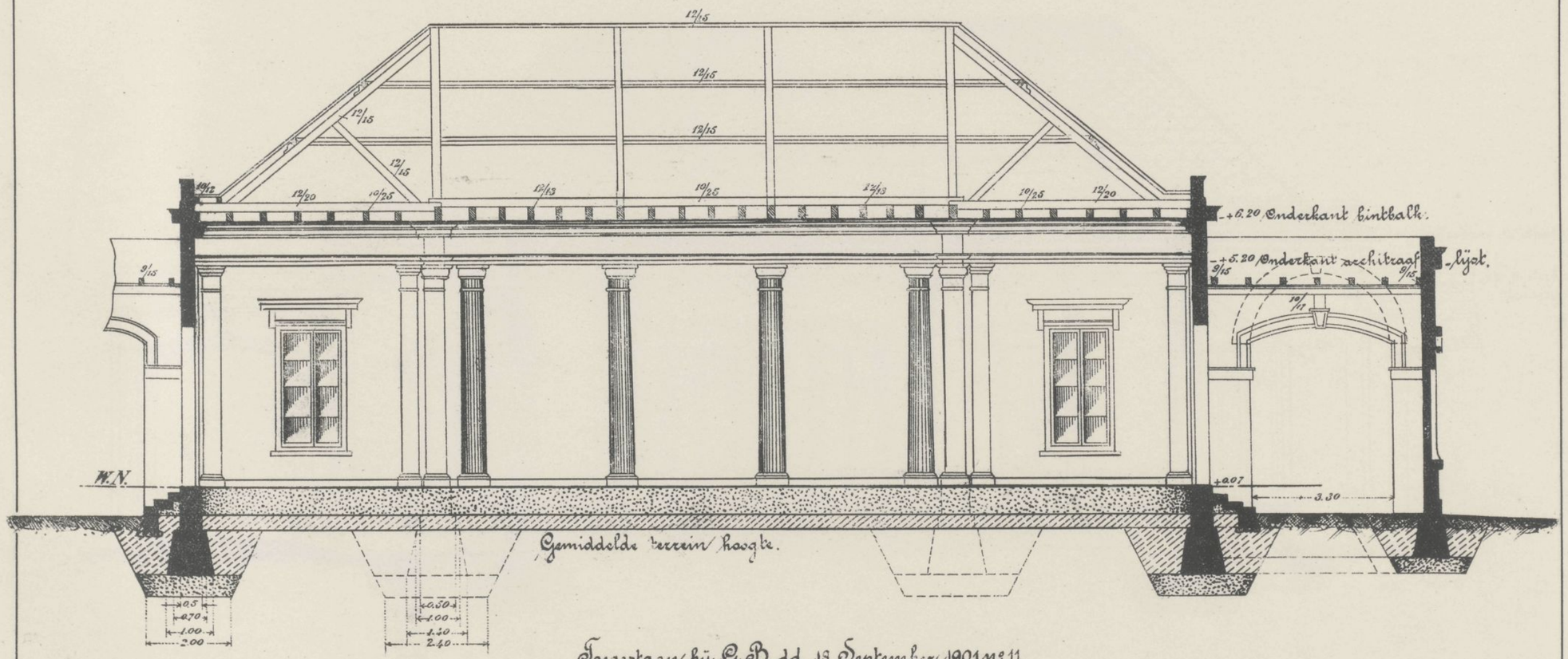
Blad V

Ontwerp eener Residentswoning te Bondowoso.

Doorsnede D.C.

(met aanzicht naar buiten.)

1 à 100.



Toegestaan bij G.B. dd. 18 September 1901 No. 11.

Blad VI.

Ontwerp eener Residentswoning te Bondowoso.

Doorsnede F. E.

(met aanzicht naar buiten)

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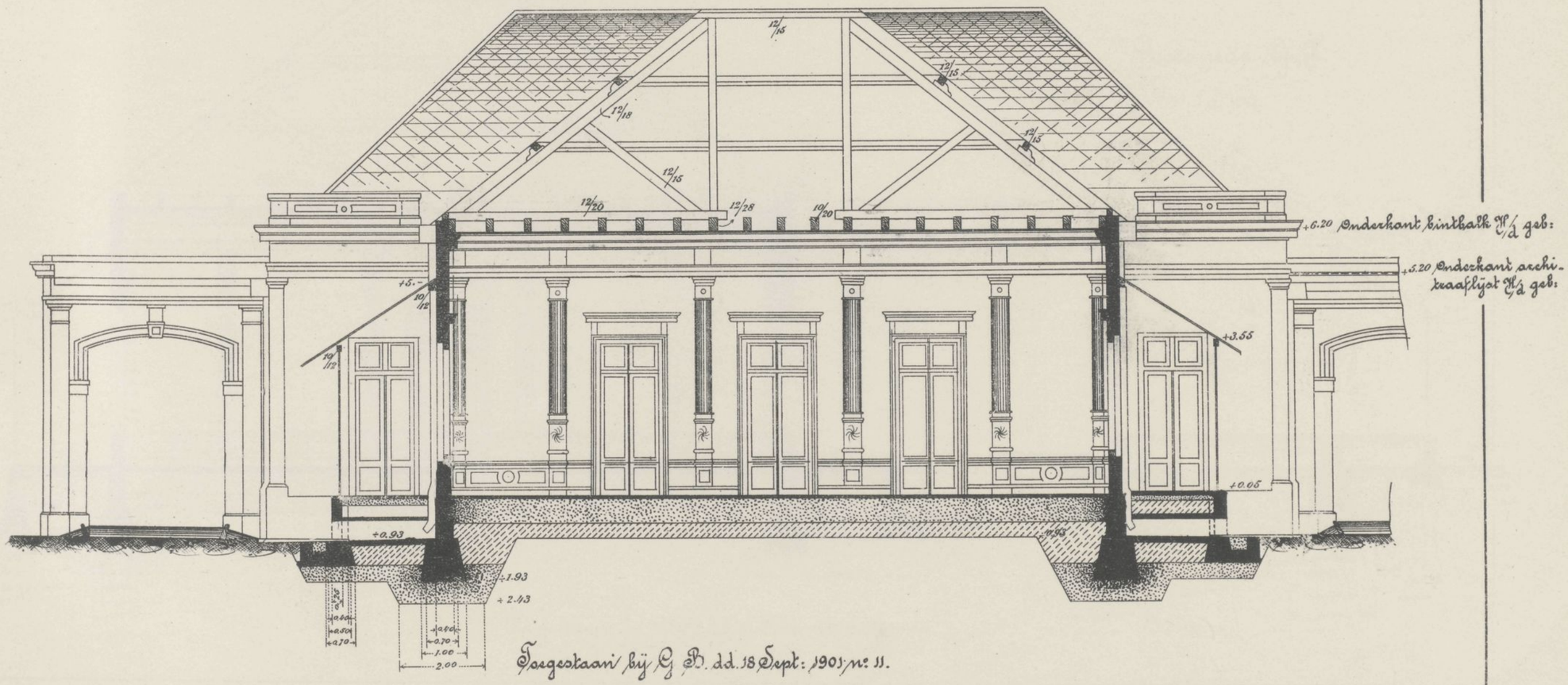

Toegestaan bij G. B. dd. 18 Sept: 1901 n: 11.

Blad VII.

Ontwerp zener Residentswoning te Bondowoso.

Doorsnede E. F.
(met aanzicht naar binnen)
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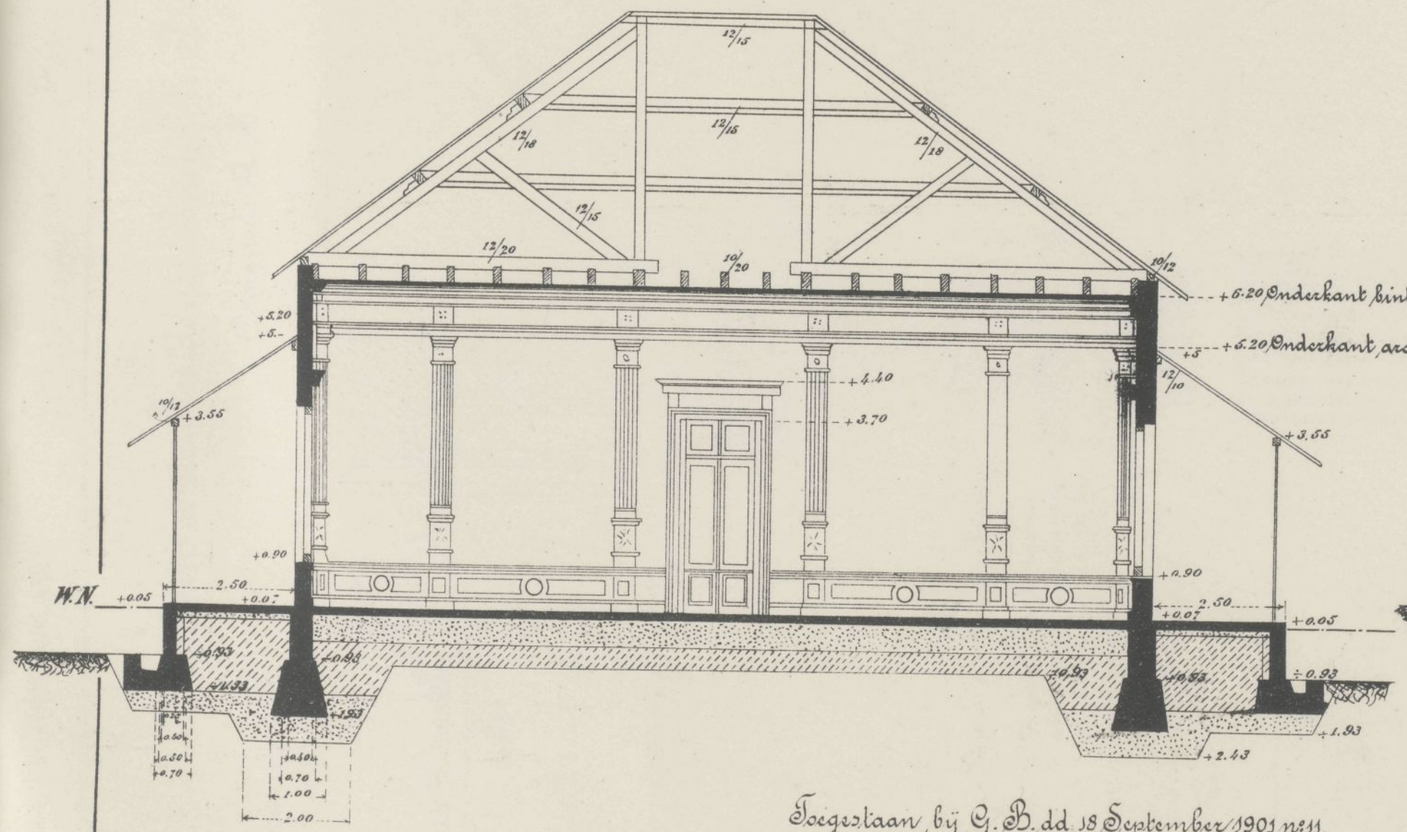

Doorsnede G. H.
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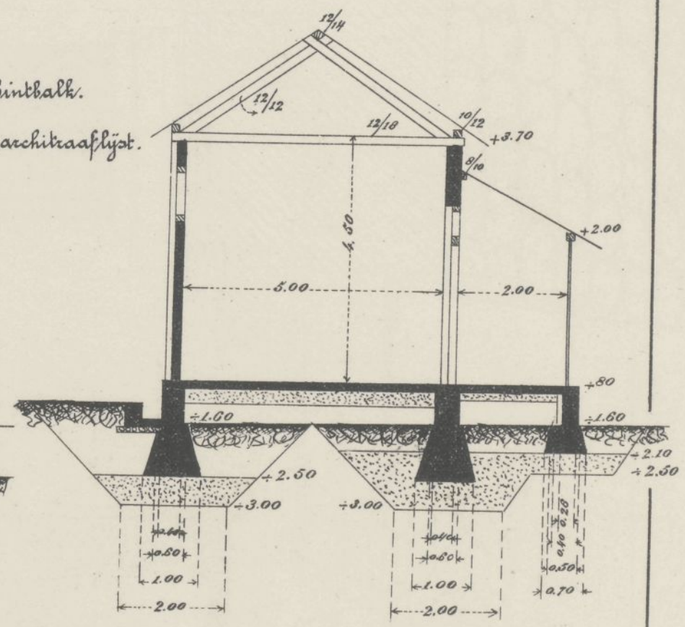

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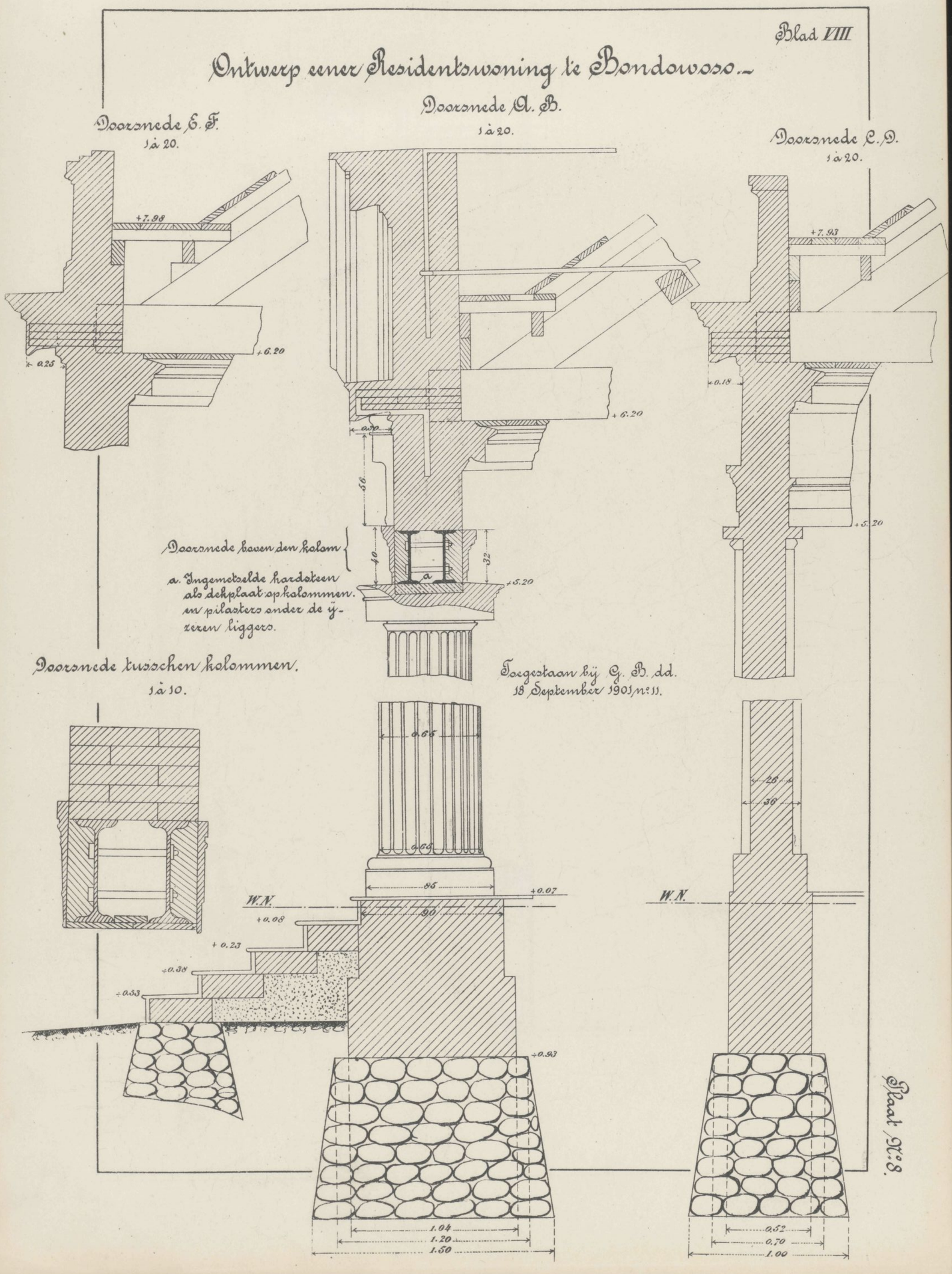
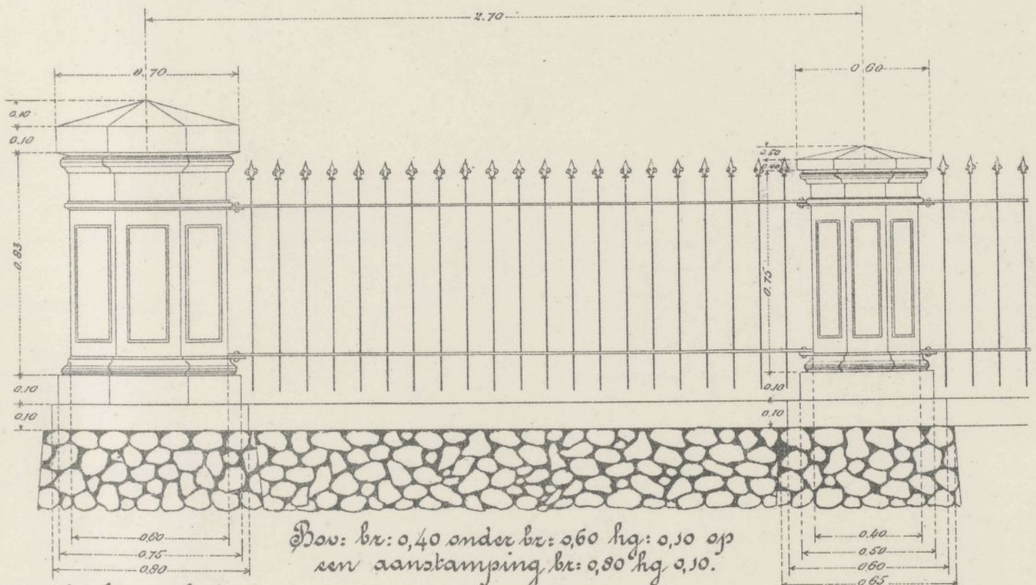

Blad VIII
Ontwerp eener Residentswoning te Bondowoso.
Doorsnede E. F.
1 à 20.
Doorsnede A. B.
1 à 20.
Doorsnede C. D.
1 à 20.
+7.98
+6.20
+0.25
+7.93
+0.18
+5.20
+6.20
0.30
56
40
32
a
+5.20
Doorsnede boven den kolom
a. Ingemetselde hardsteen als dekplaat op kolommen en pilasters onder de ijzeren liggers.
Doorsnede tusschen kolommen.
1 à 10.
Toegestaan bij G. B. dd. 18 September 1901, n° 11.
0.65
0.65
85
90
+0.07
W.N.
+0.08
+0.23
+0.38
+0.53
+0.93
26
36
W.N.
1.04
1.20
1.50
0.52
0.70
1.00
Plaat N° 8.

Blad IX.

Ontwerp zener Residentswoning te Bondowoso.

Afsluithek (gedeelte van het terrein)

1 à 20.



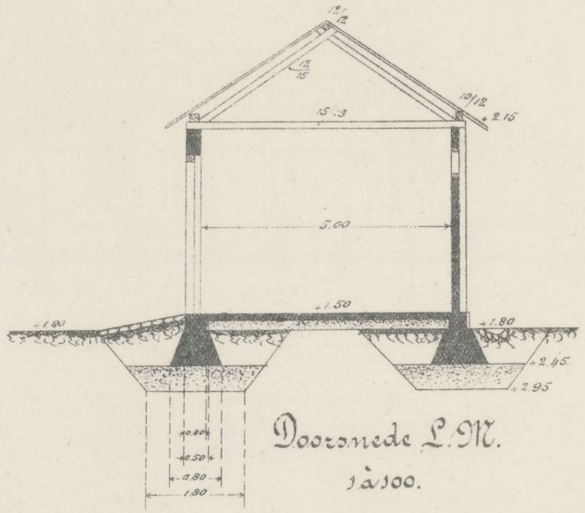
Bov: br: 0,40 onder br: 0,60 hg: 0,10 op een aanstamping br: 0,80 hg 0,10.

Onder br: 0,90 hg: 0,50 op een aanst: 1,00 M vieck: hg: 0,10.

Onder br: 0,80 hg: 0,50 op een aanst: 1,00 M. hg: 0,10.

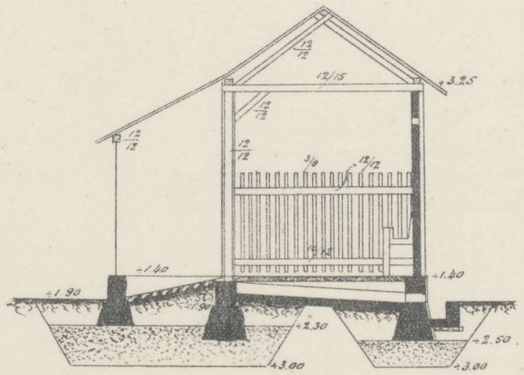
Doorsnede N.O.

1 à 100.



Doorsnede L.M.

1 à 100.

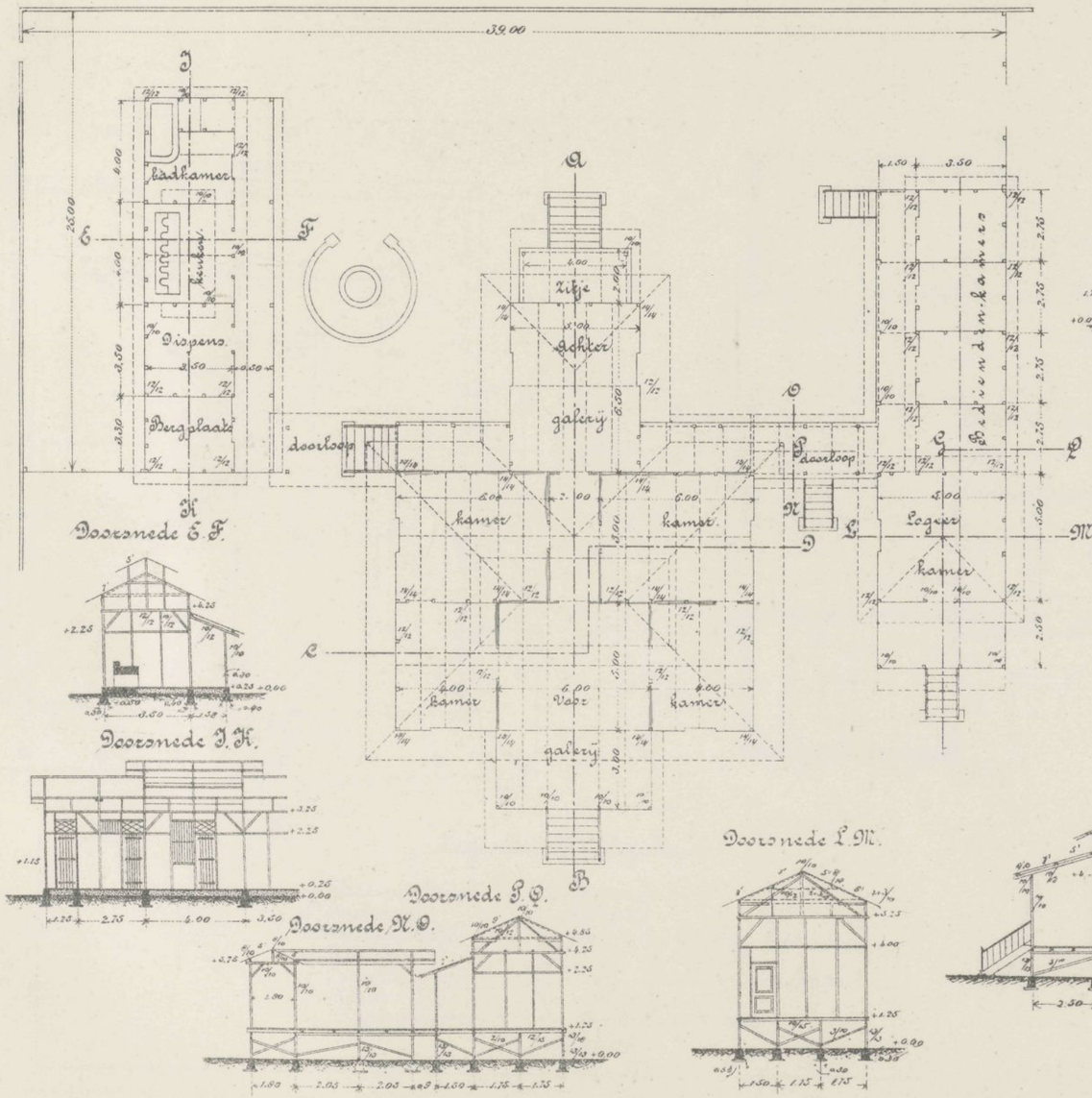


Toegestaan bij G.B. dd. 18 September 1901 n° 11.

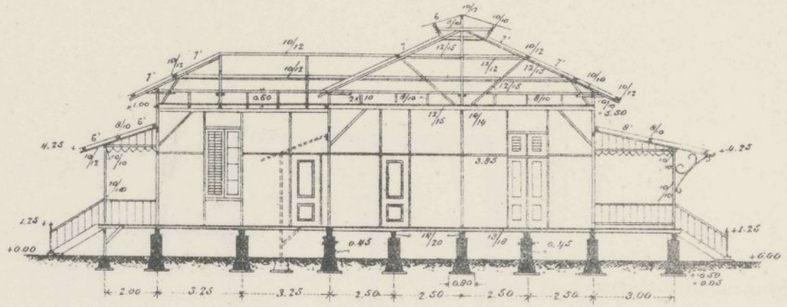
Bestuursvestiging op Nieuw Guinea.

Controleurswoning.

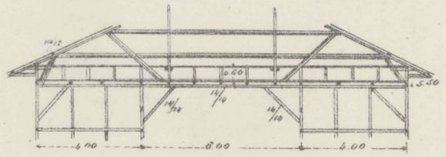
Platte-grond. 1 à 200.



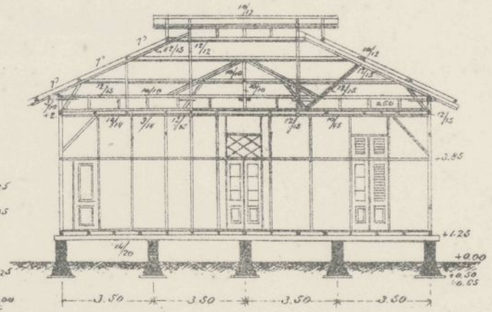
Doorsnede A.B.



Aanzicht voorwand.



Doorsnede C.D.
midden en achterwand.



Doorsnede E.F.

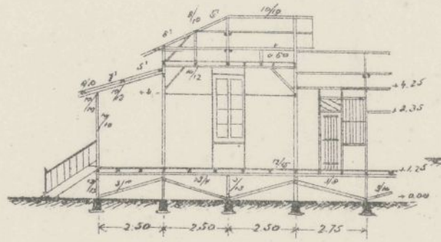
Doorsnede I.K.

Doorsnede M.O.

Doorsnede F.G.

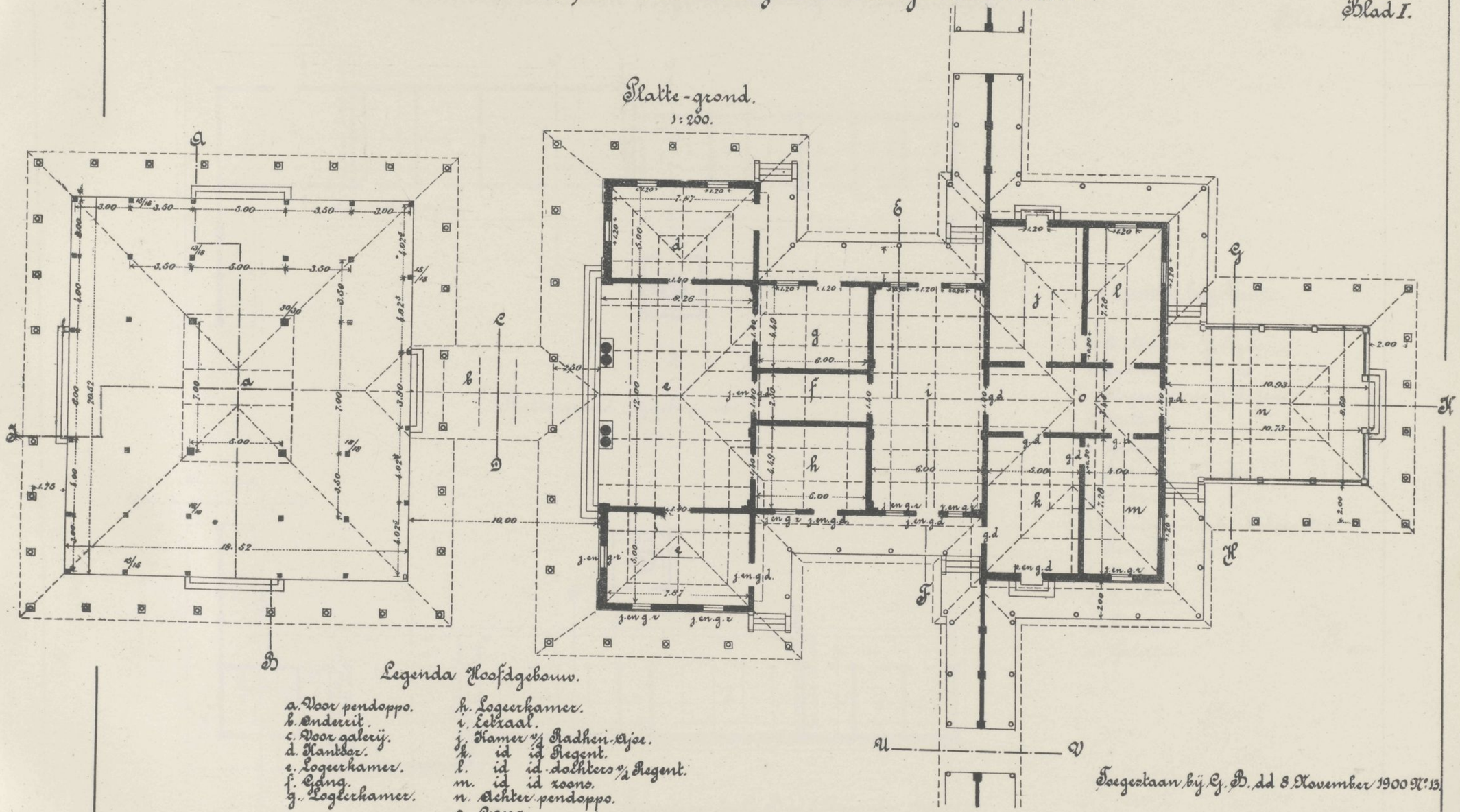
Doorsnede L.M.

Doorsnede H.G.



Ontwerp voor eene Regentswoning te Bondowoso.

Blad I.



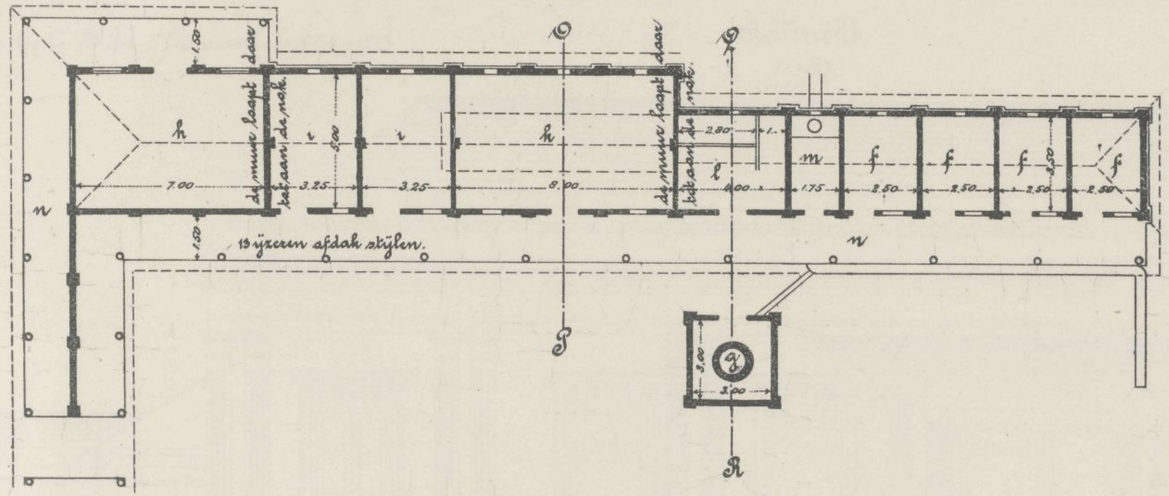
Legenda Hoofdgebouw.

a. Voor pendoppo.
b. Onderrit.
c. Voor galerij.
d. Kantoor.
e. Logeerkamer.
f. Gang.
g. Logeerkamer.
h. Logeerkamer.
i. Eetzaal.
j. Kamer v/d Radhen-Ajoe.
k. id id Regent.
l. id id dochters v/d Regent.
m. id id zoons.
n. Achter pendoppo.
o. Gang.

Toegestaan bij G. B. dd 8 November 1900 N°. 13.

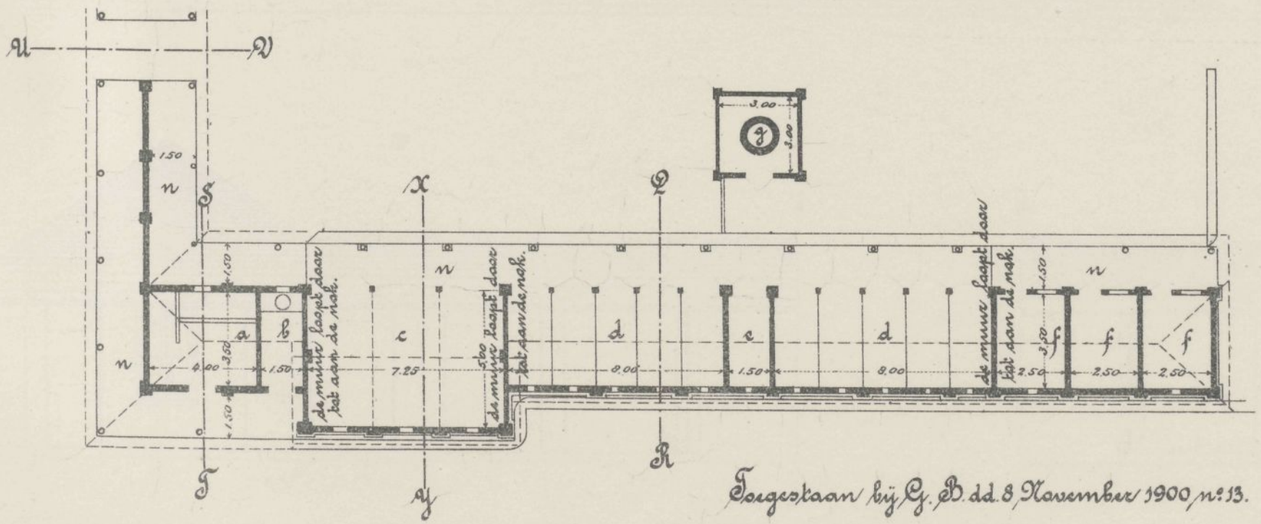
Ontwerp voor eene Regentswoning te Bondowoso.

Blad II.



Platte-grond bijgebouwen.

1 à 200.



Legenda bijgebouw.

a. Badkamer v/d logeur.
b. Latrine id
c. Wagenkamer v/d Regent.
d. Stalling.
e. Grashok.
f. Bedienden kamers.
g. Putten.
h. Kantoor/mantri kabosepaten.
i. Provicie kamers.
k. Keuken.
l. Badkamers
m. Privaat.
n. Galerijen.

Toegestaan bij G. B. dd. 8 November 1900, n.o 13.

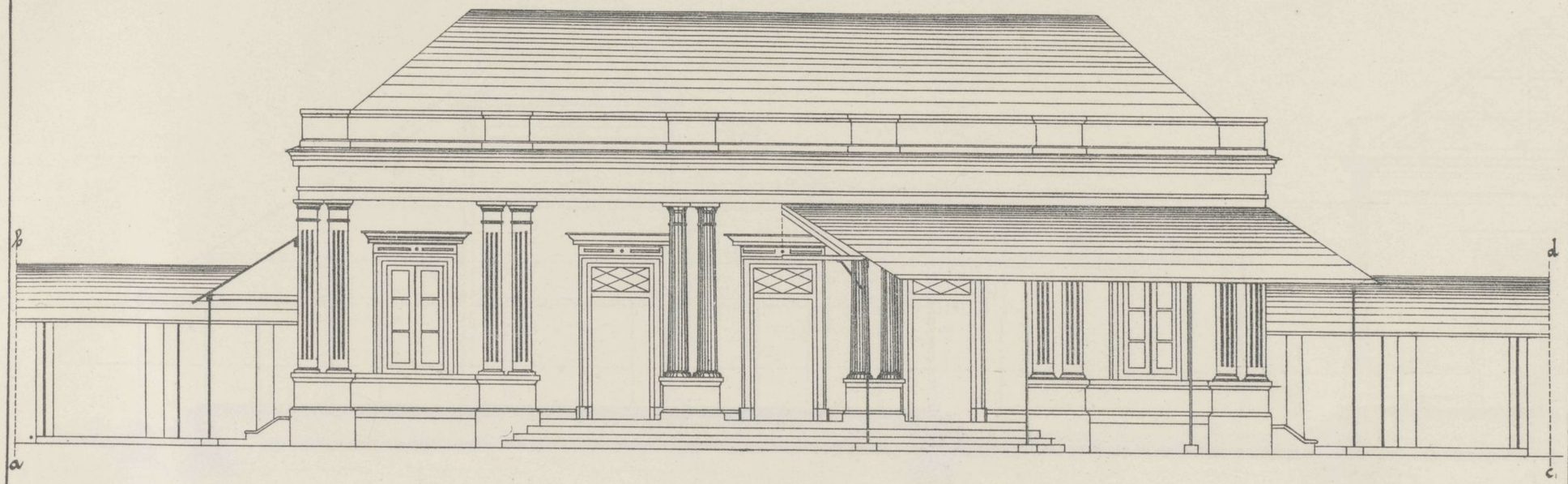
Plaat No. 13.

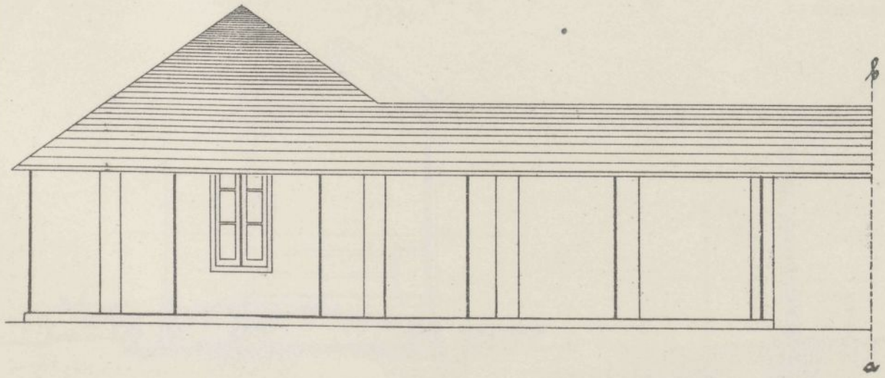
Ontwerp voor eene Regentswoning te Bondowoso.

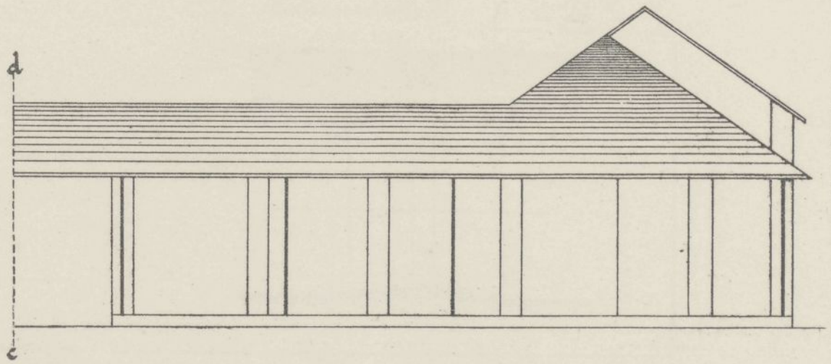
Blad III.

Toegestaan bij G. B. dd. 8 November 1900, no. 13.

Aanzicht.
1:100.





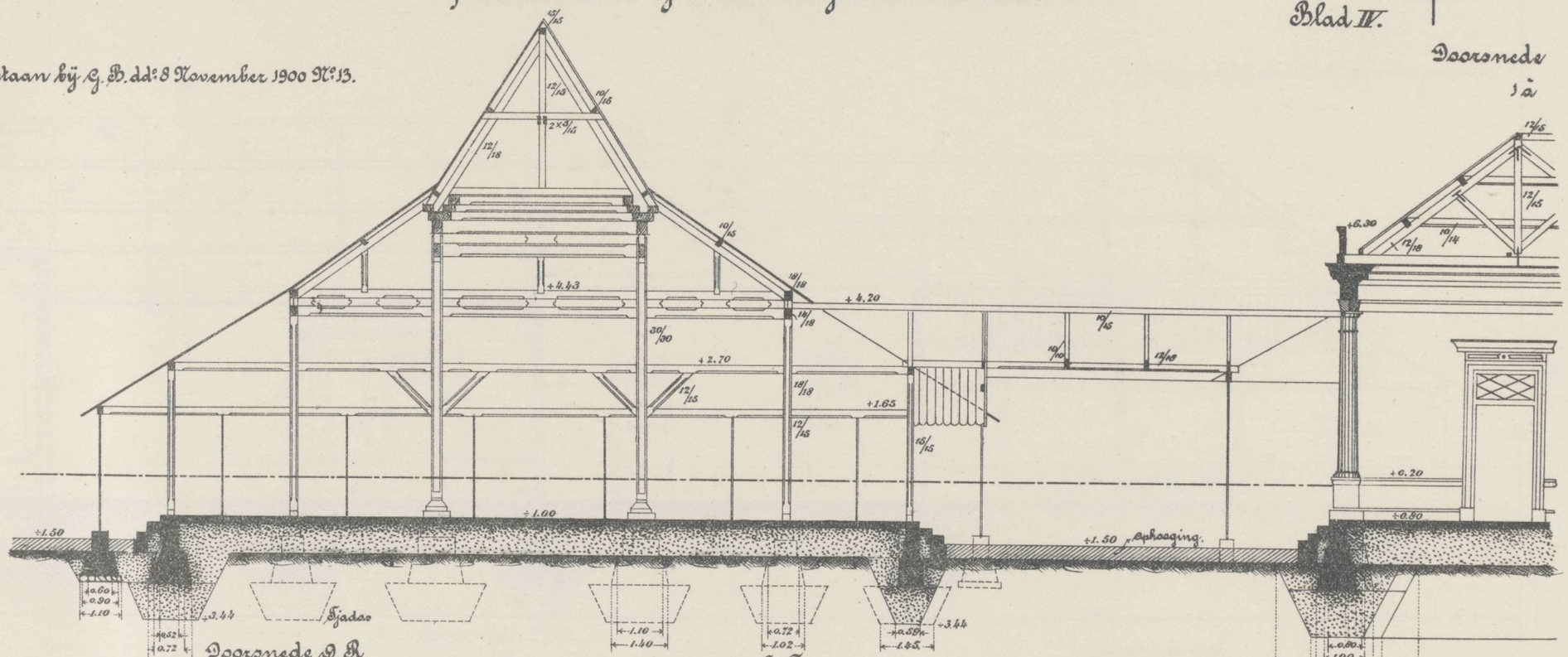


Plaat N.º 14.

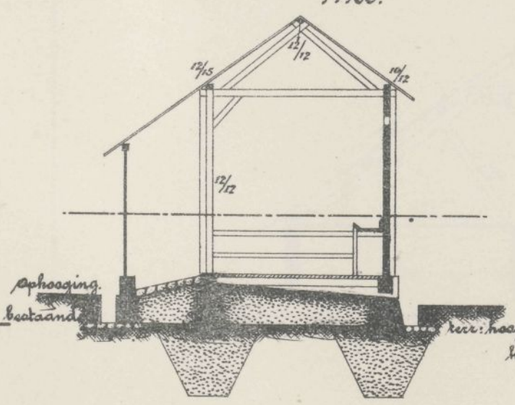
Ontwerp voor eene Regentswoning te Bondowoso.

Blad IV.

Toegestaan bij G. B. dd: 8 November 1900 N.º 13.



Doorsnede Q. R.
1:100.



Doorsnede S. T
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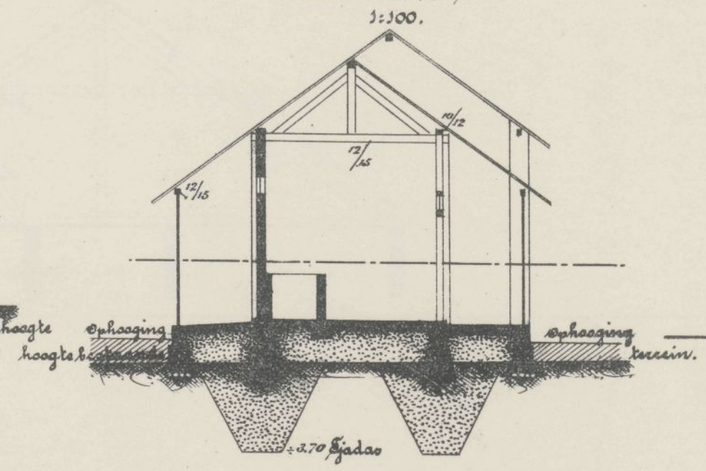

Doorsnede U. V.
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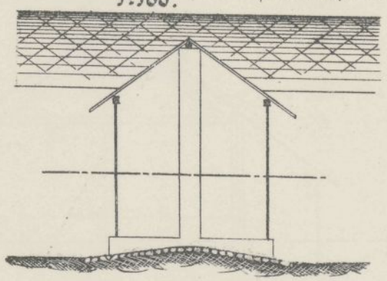


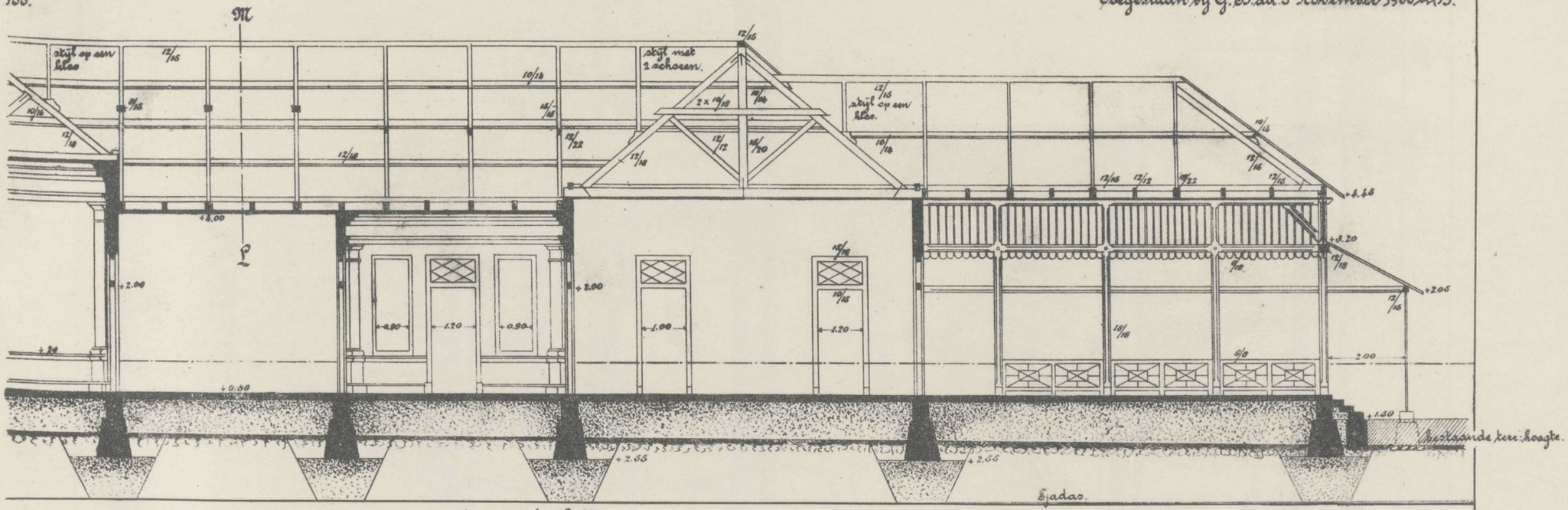
Ontwerp voor eene Regentswoning te Bondowoso.

Blad V.

I. H.

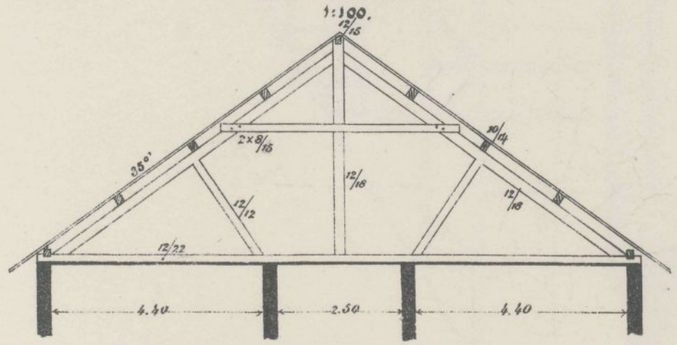
100.

Toegestaan bij G. B. dd. 8 November 1900 N° 13.



Doorsnede L.M.

1:100.



Doorsnede O.P.

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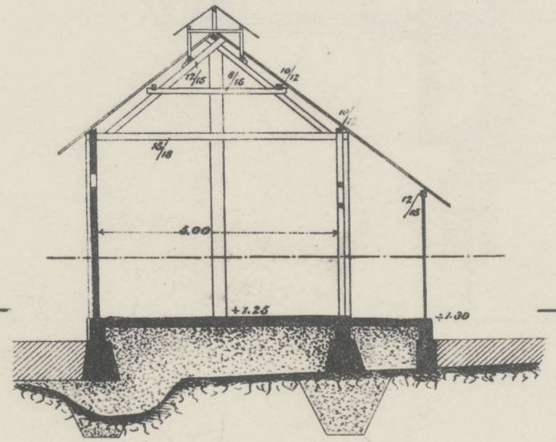


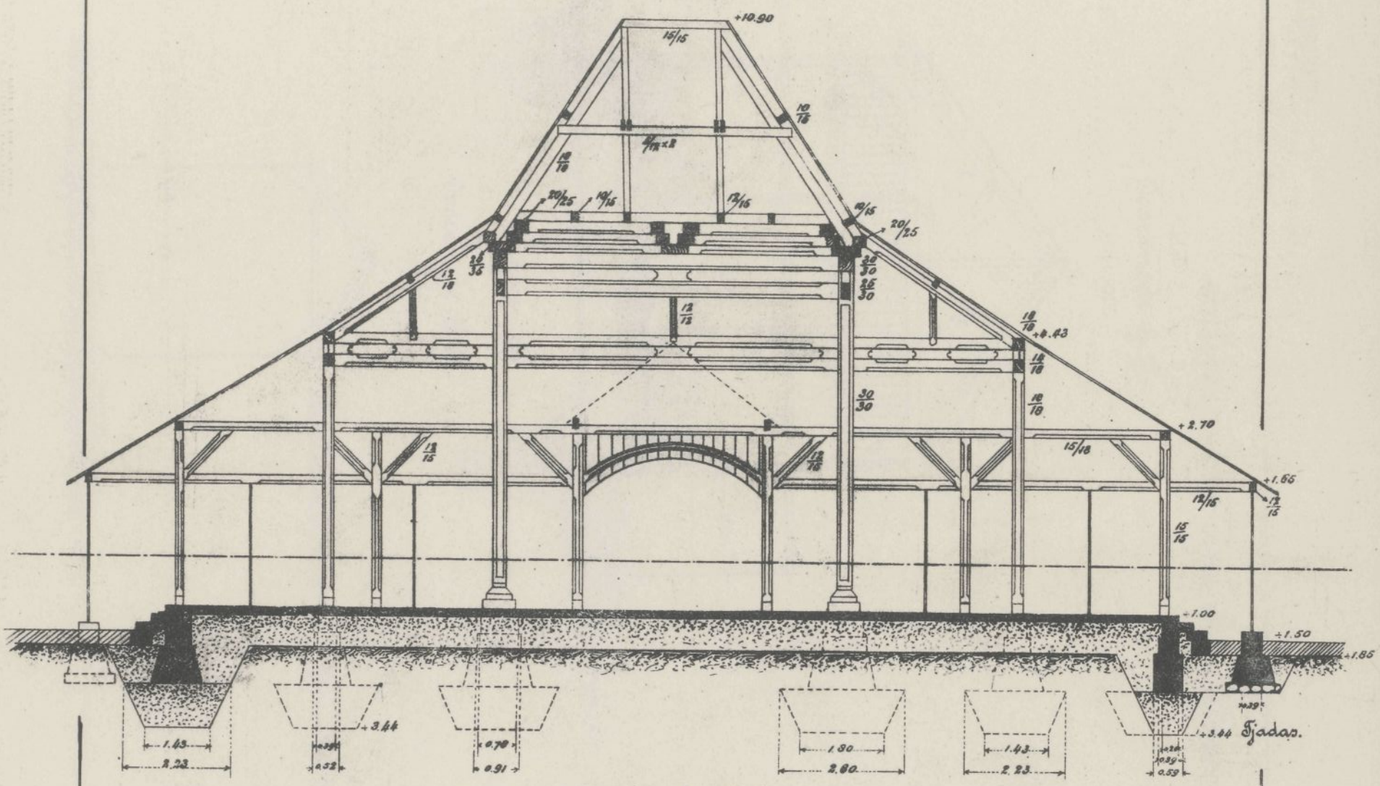
Ontwerp voor eene Regentswoning te Bondowoso.

Blad VI.

Toegestaan bij G. B. dd 8 Nov: 1900 nº 13.

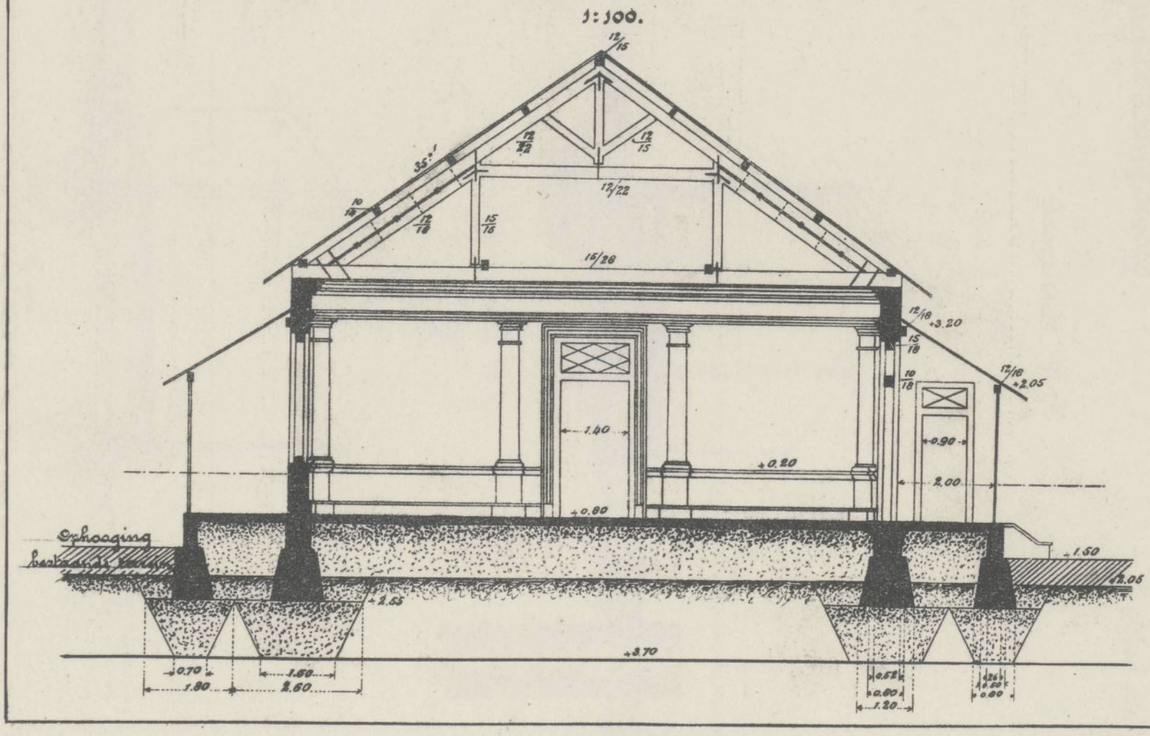
Doorsnede A. B.

1:100.



Doorsnede C. F.

1:100.



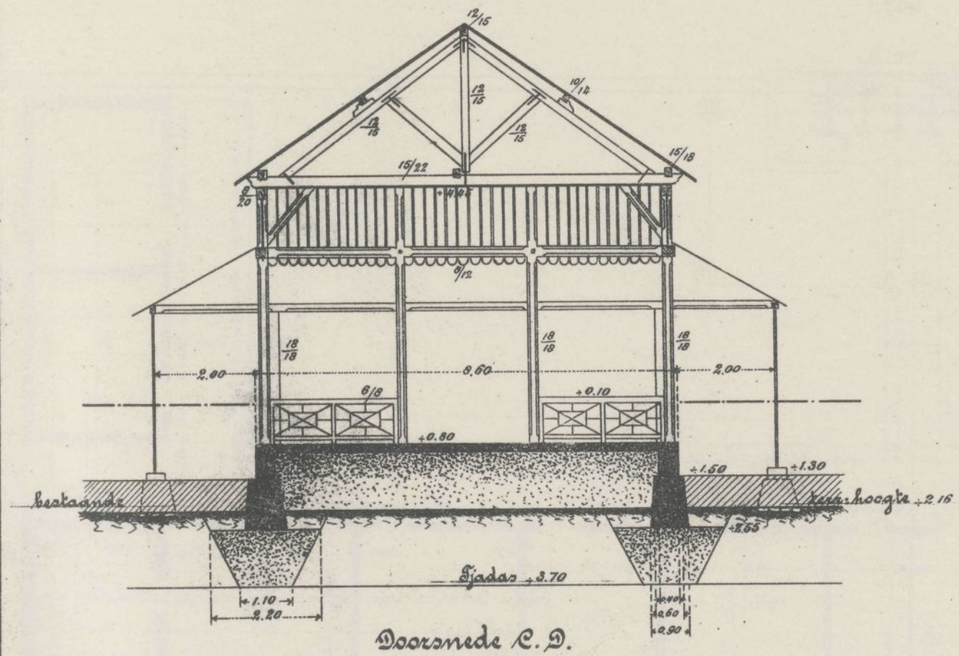
Plaat Nº 16.

Ontwerp voor eene Regentswoning te Bondowoso.

Blad VII.

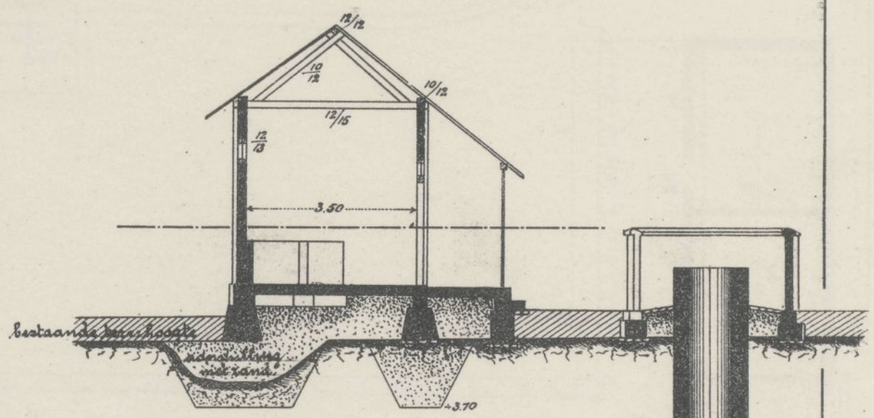
Doorsnede G. H.

1:100.



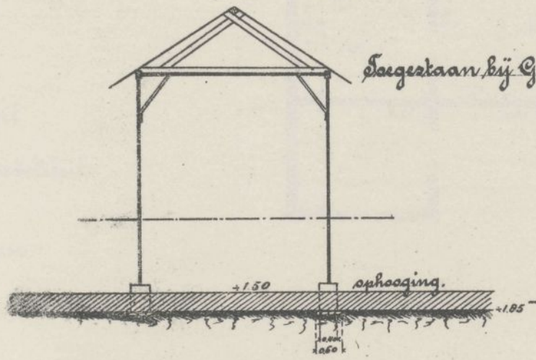
Doorsnede M. N.

1:100.



Doorsnede C. D.

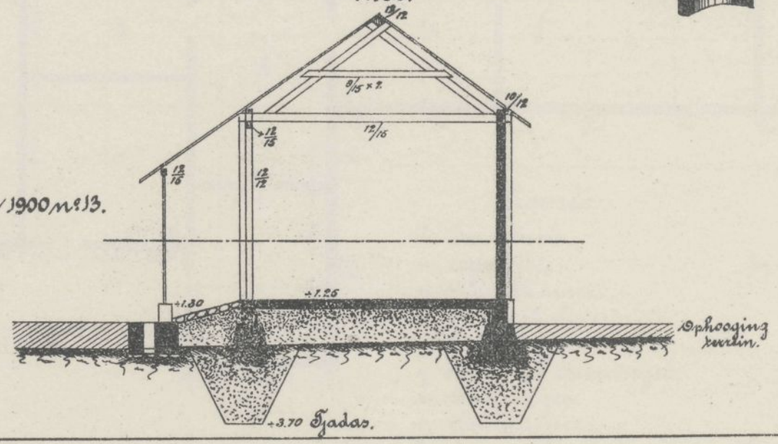
1:100.



Toegezonden bij G. B. dd. 8 November 1900 no. 13.

Doorsnede X. Y.

1:100.

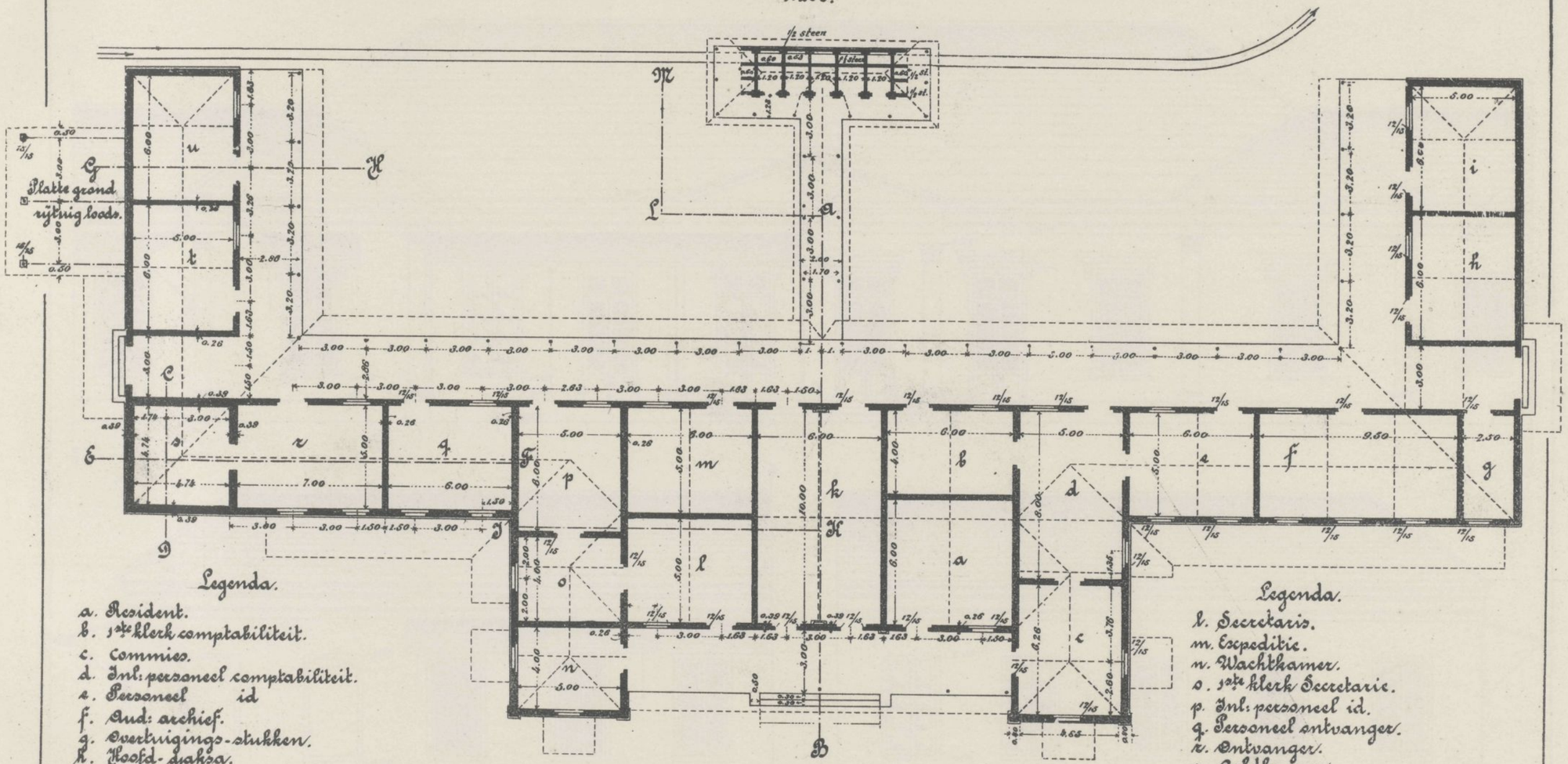


Residentie kantoor te Bondowoso.

Blad I.

Platte-grond

1:100.

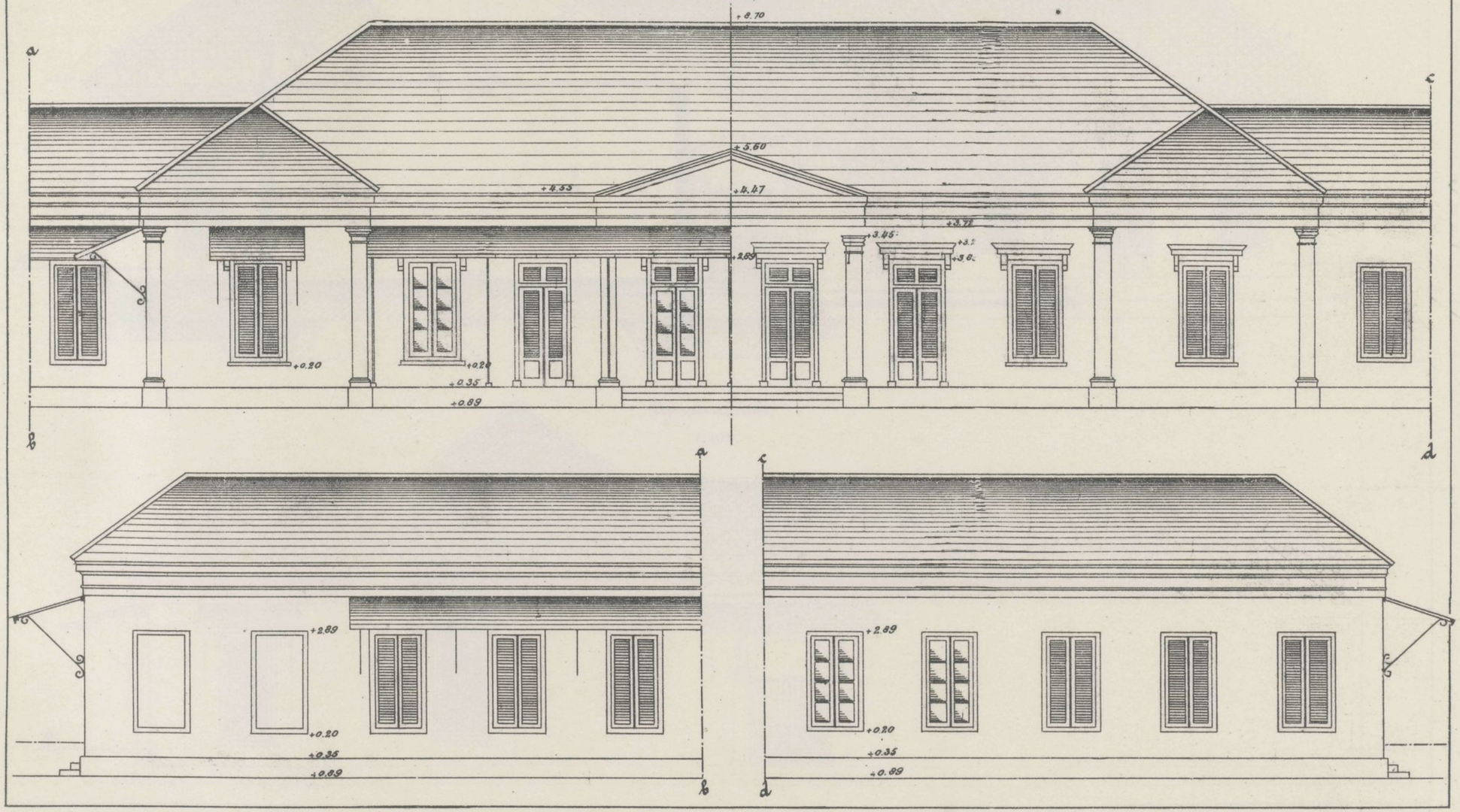


Residentie kantoor te Bondowoso.

Blad II.

Voor-aanzicht.

1:100.

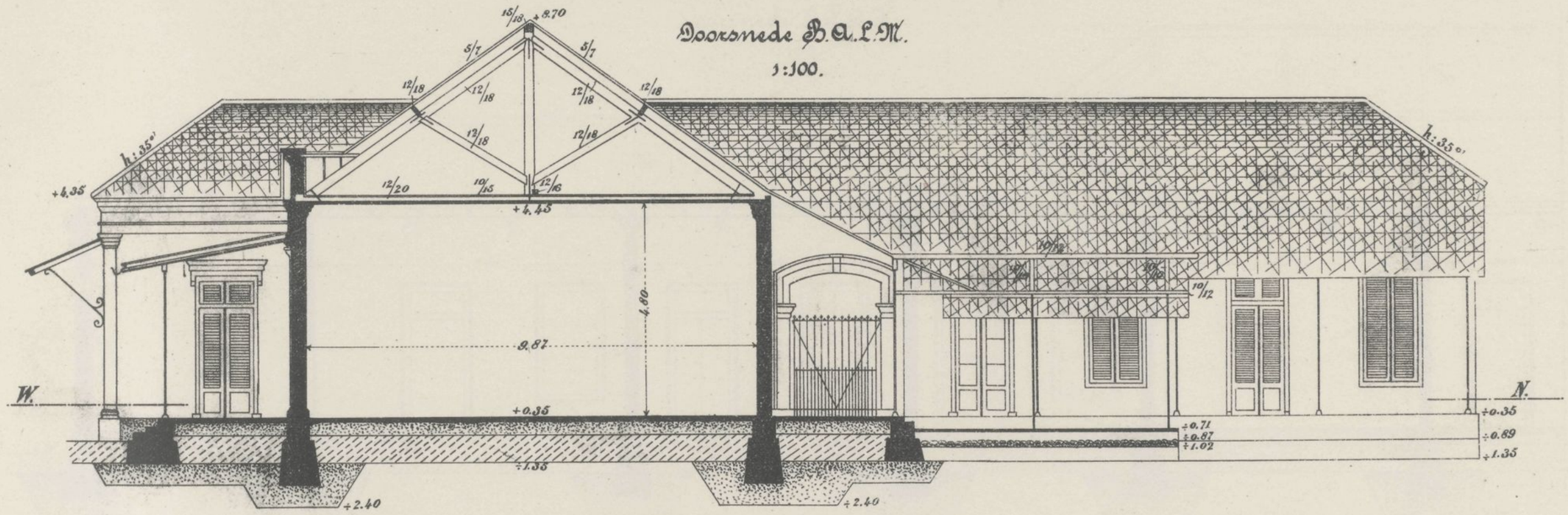


Residentie kantoor te Bondowoso.

Blad III.

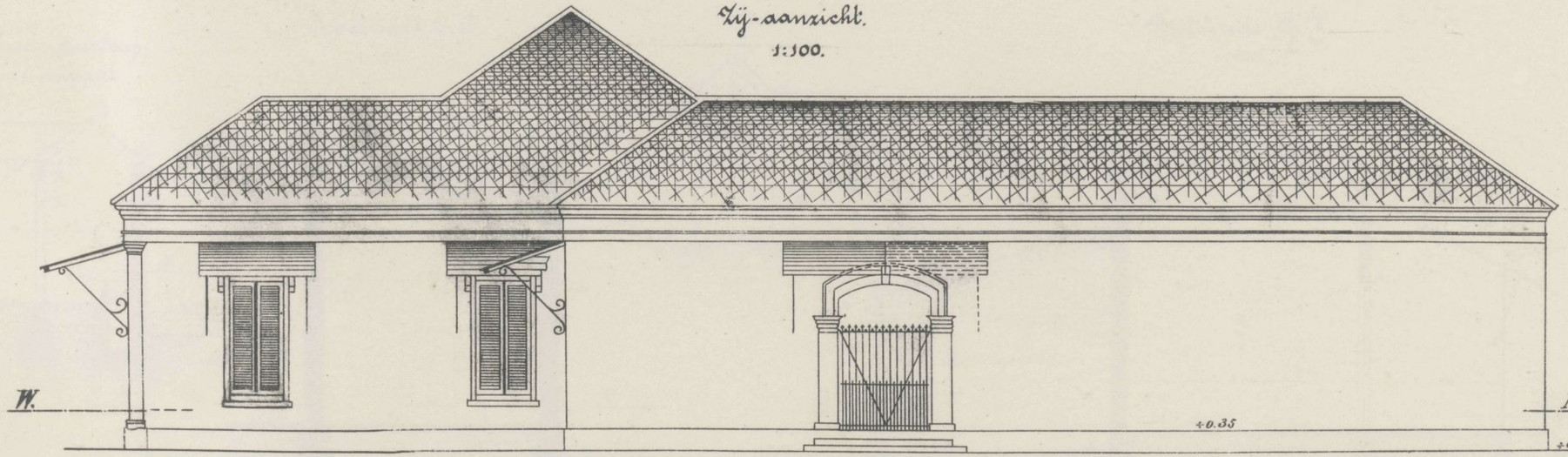
Doorsnede B.A.L.M.

1:100.



Zij-aanzicht.

1:100.

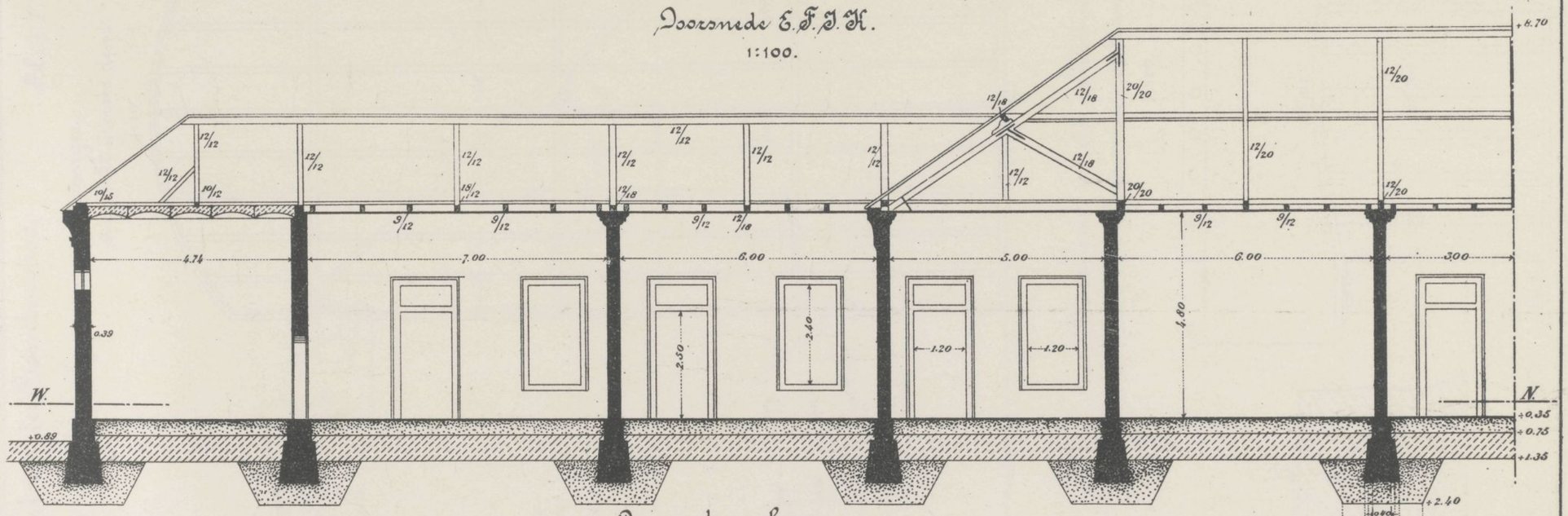


Residentie kantoor te Bondowoso.

Blad IV

Doorsnede E.F.G.H.

1:100.

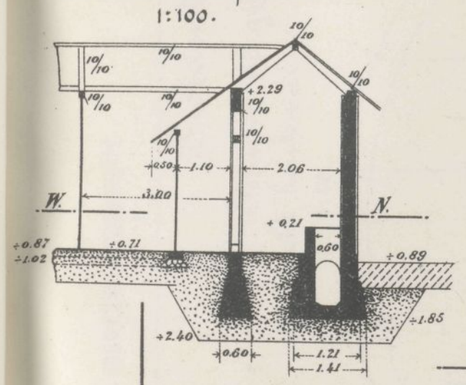


Doorsnede overloop.

1:100.

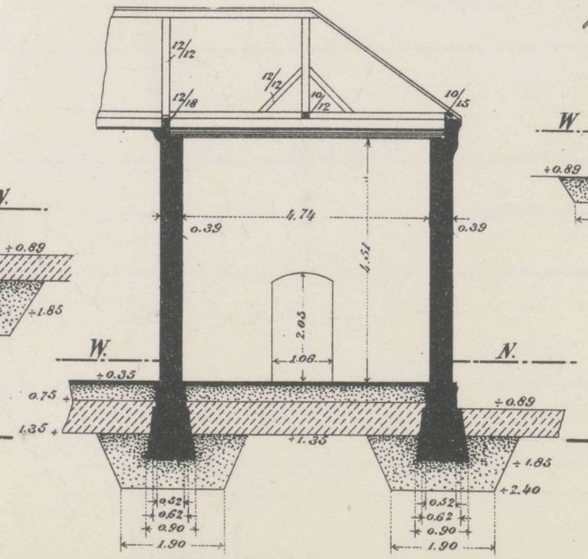
Langsdoorsnede overloop. en doorsnede privaat.

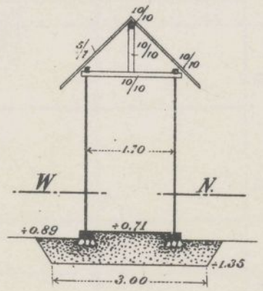
1:100.



Doorsnede C.D.

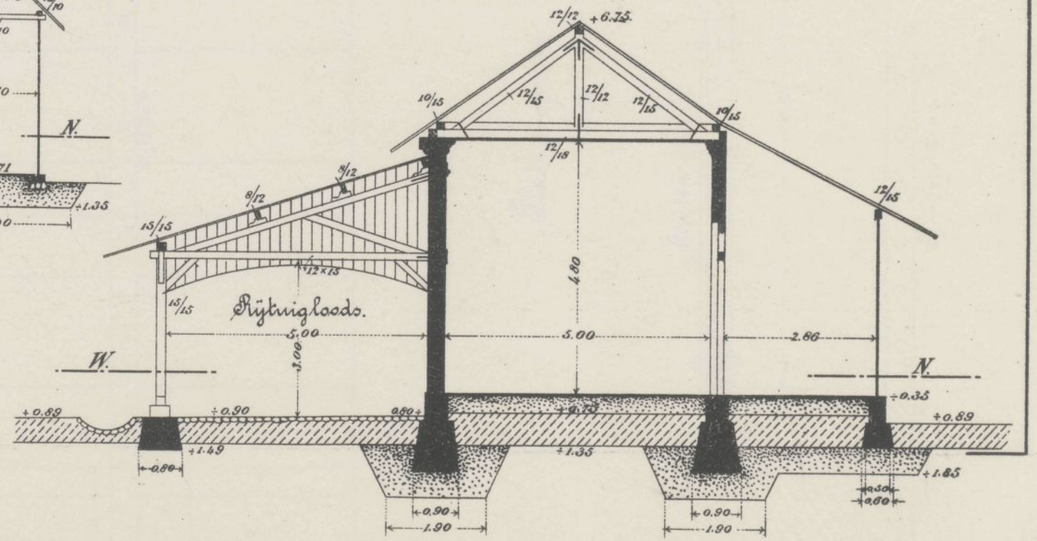
1:100.





Doorsnede G.H.

1:100.



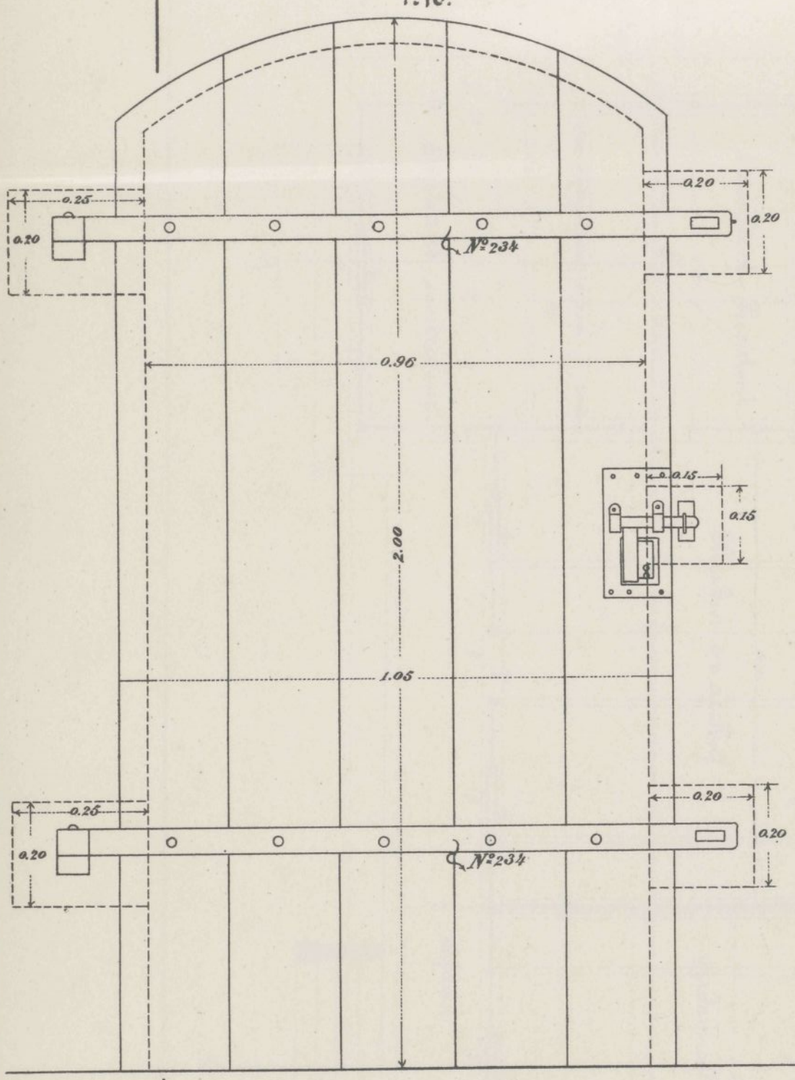
Residentie kantoor te Bondowoso.

Blad V.

Deur in de geldkamer van den algemeenen ontvanger.

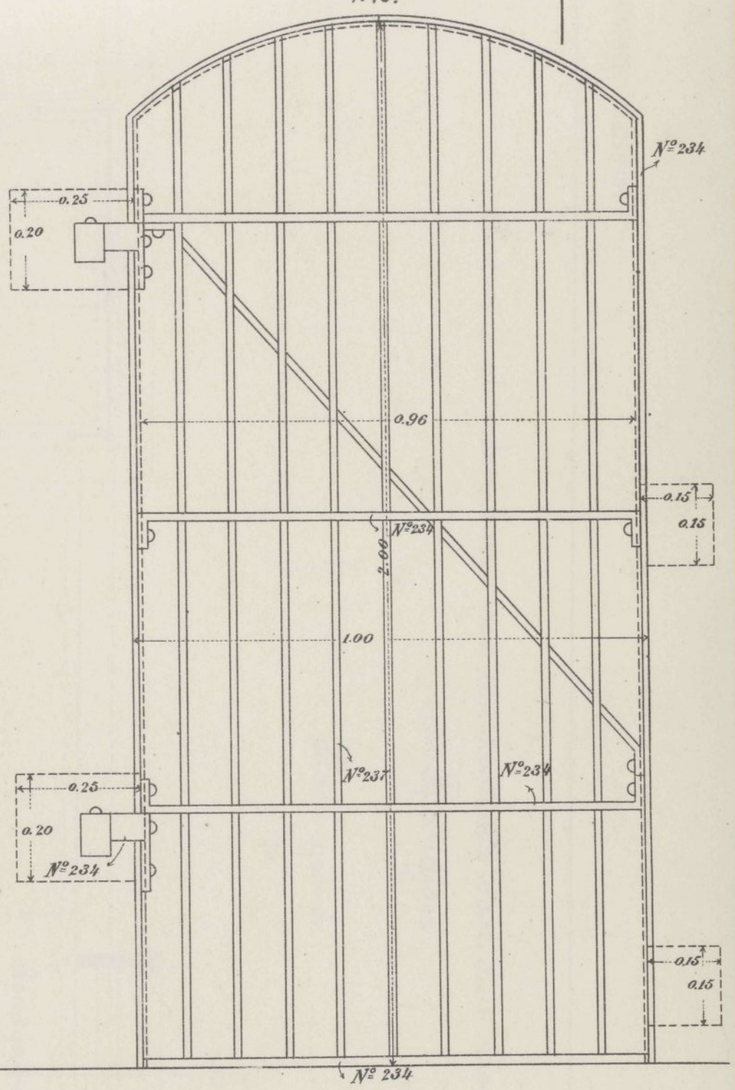
Aanzicht houten deur.

1:10.



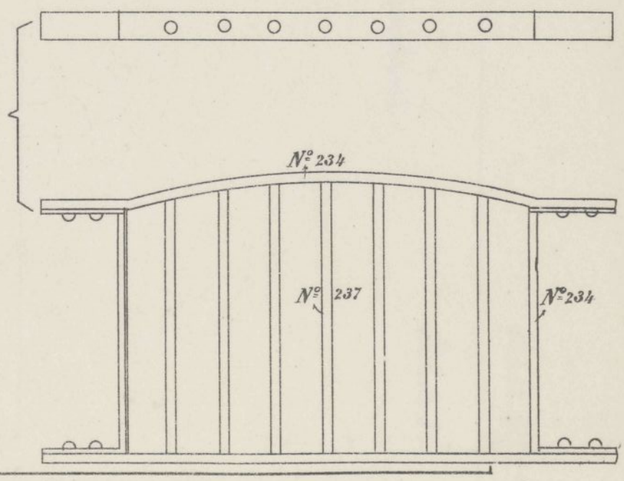
Aanzicht ijzeren deur.

1:10.



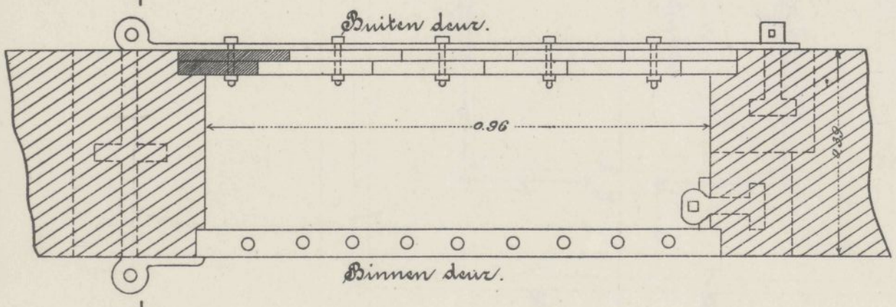
Mezzanine in de geldkamer van den algemeenen ontvanger.

1:100.



Platte-grond.

1:100.



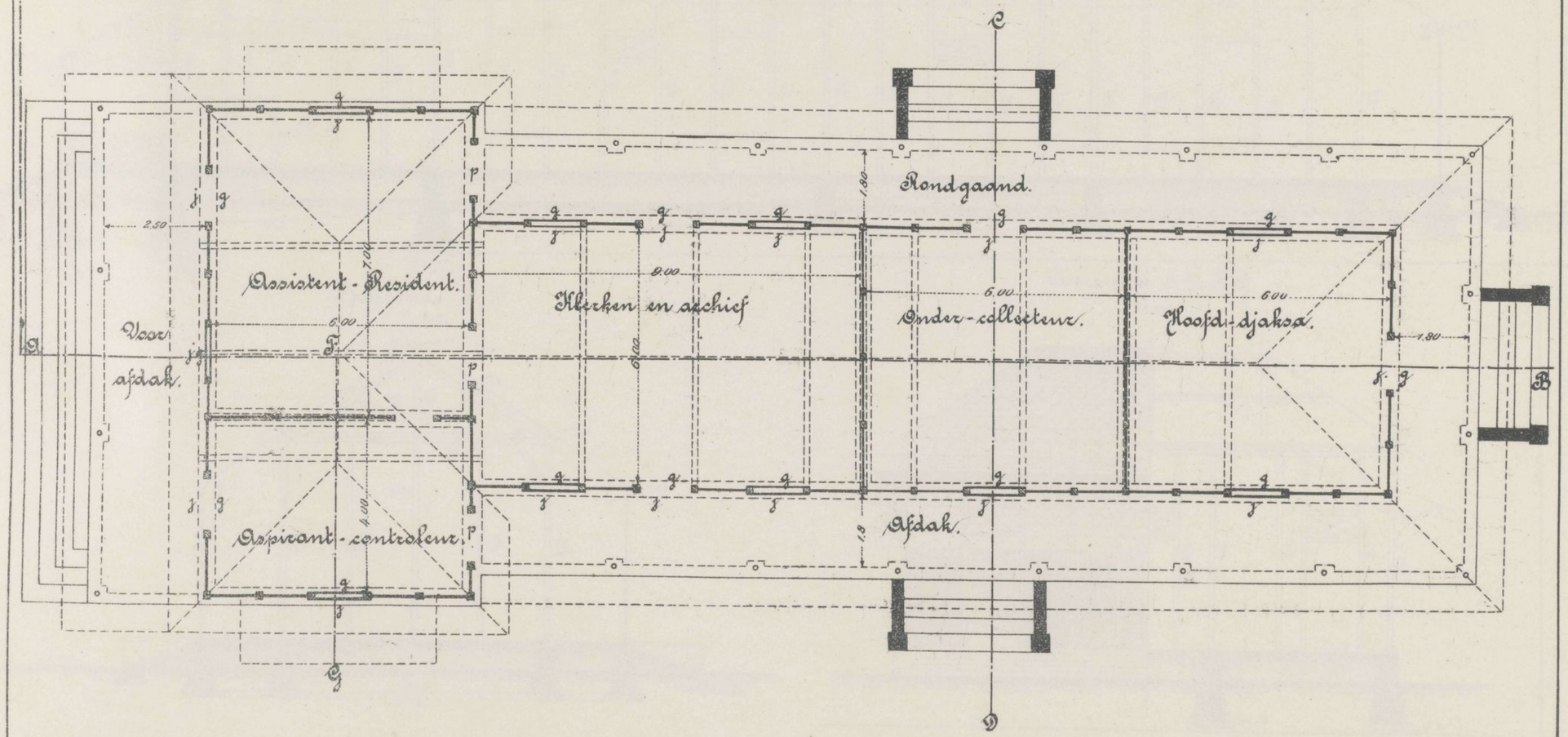
Plaat N° 22.

Blad I.

Ontwerp voor den bouw van een kantoor voor den Assistent-Resident van Tjiandjoer.

Platte-grond.

1:100.



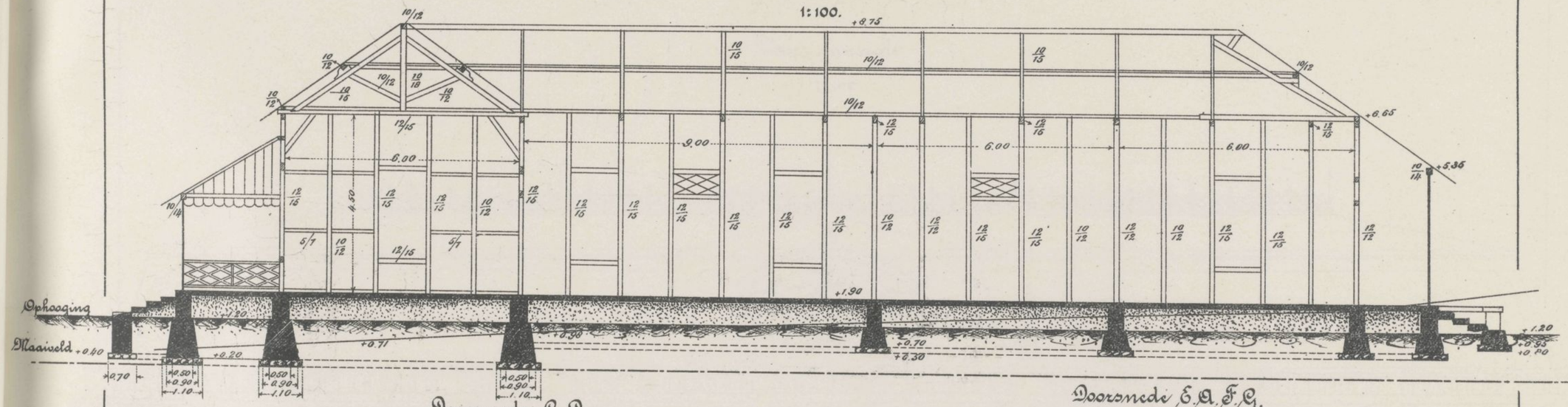
Plaat N°. 24.

Blad II.

Ontwerp voor den bouw van een kantoor voor den Assistent-Resident van Tjiandjoer.

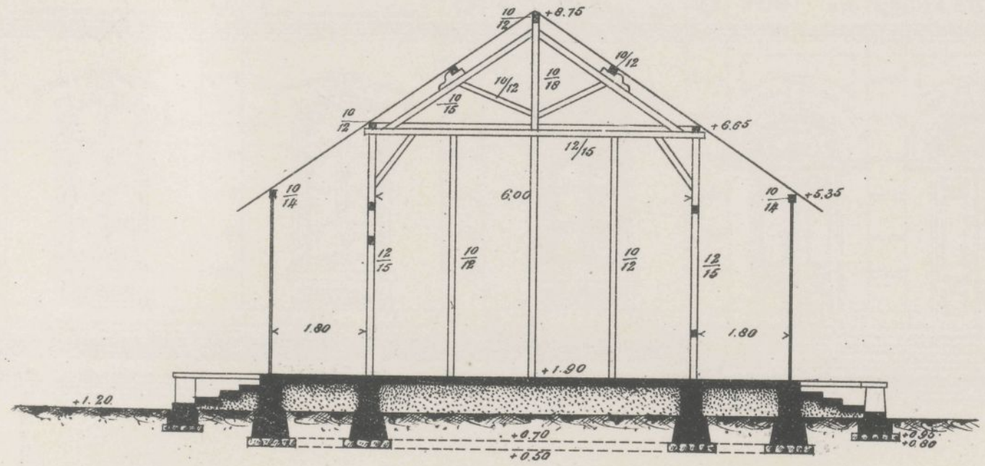
Doorsnede A.B.

1:100.



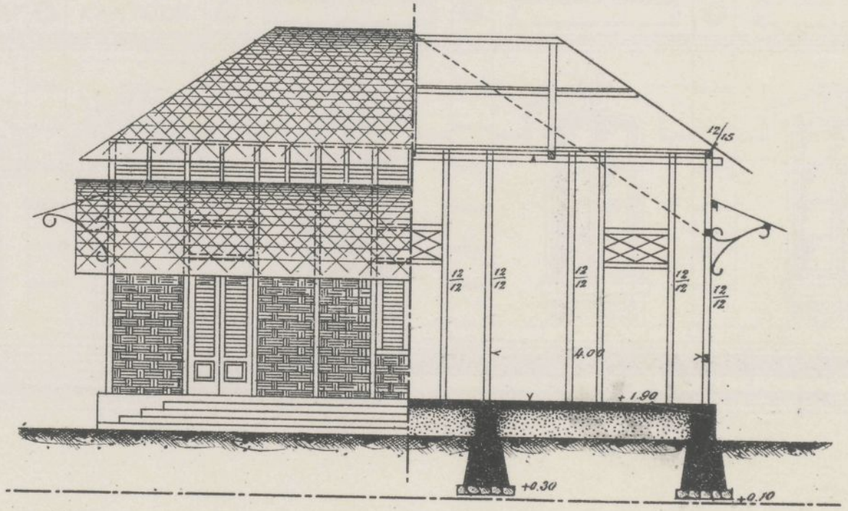
Doorsnede C.D.

1:100.



Doorsnede E.A.F.G.

1:100.



Ontwerp voor een Post- en Telegraafkantoor te Semarang.

Blad I.

Voor-aanzicht.

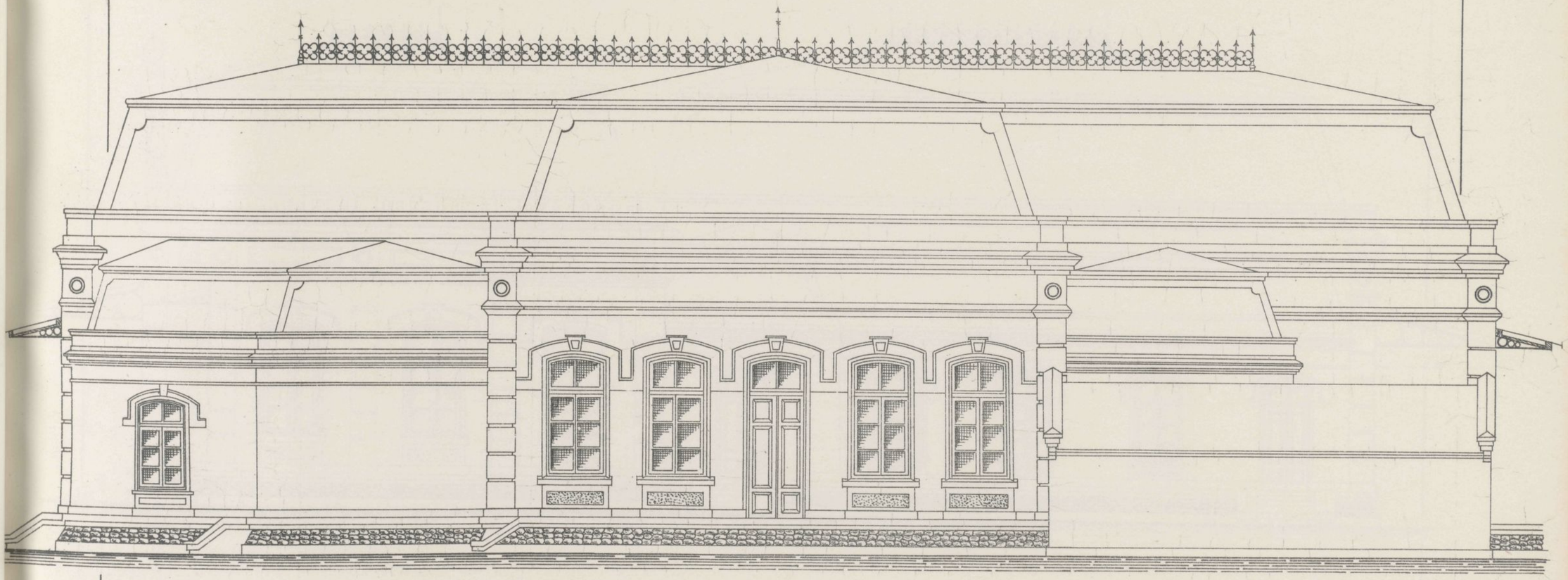
1:100.

Ontwerp voor een Post-en Telegraafkantoor te Semarang.

Blad II.

Achter-aanzicht.

1:100.

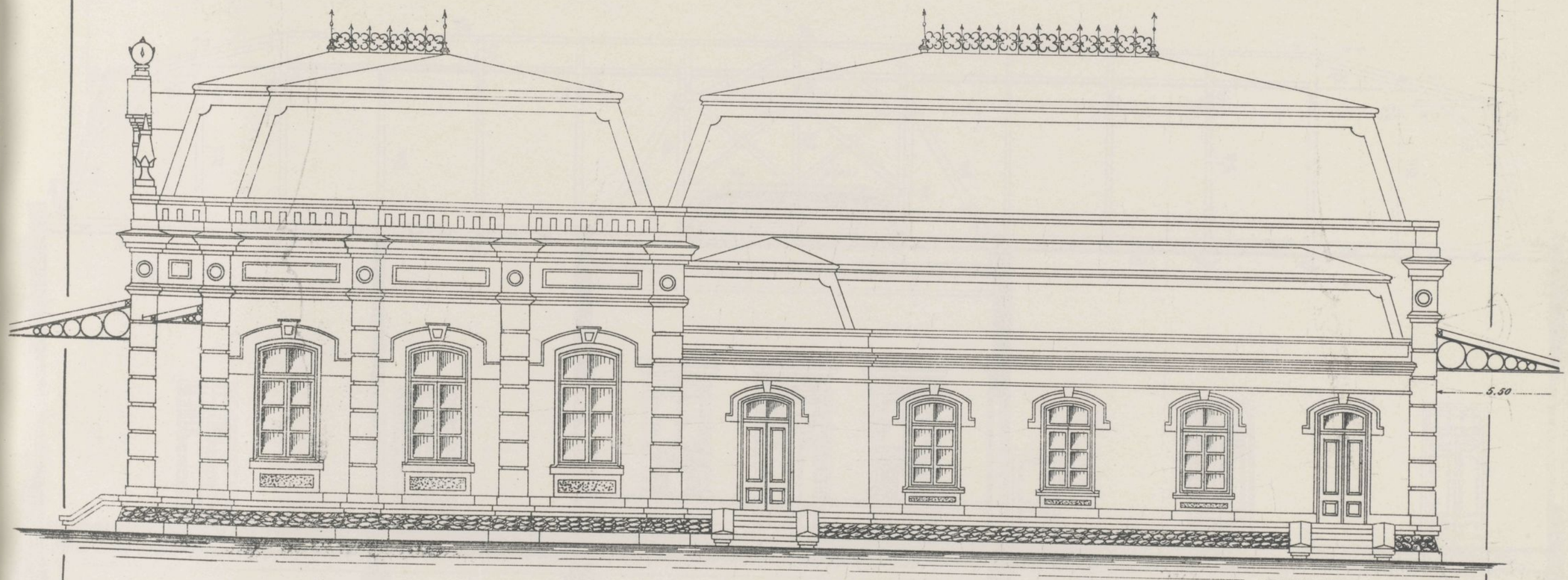


Ontwerp voor een Post- en Telegraafkantoor te Semarang.

Blad III.

Zij-aanzicht rechts

1:100.



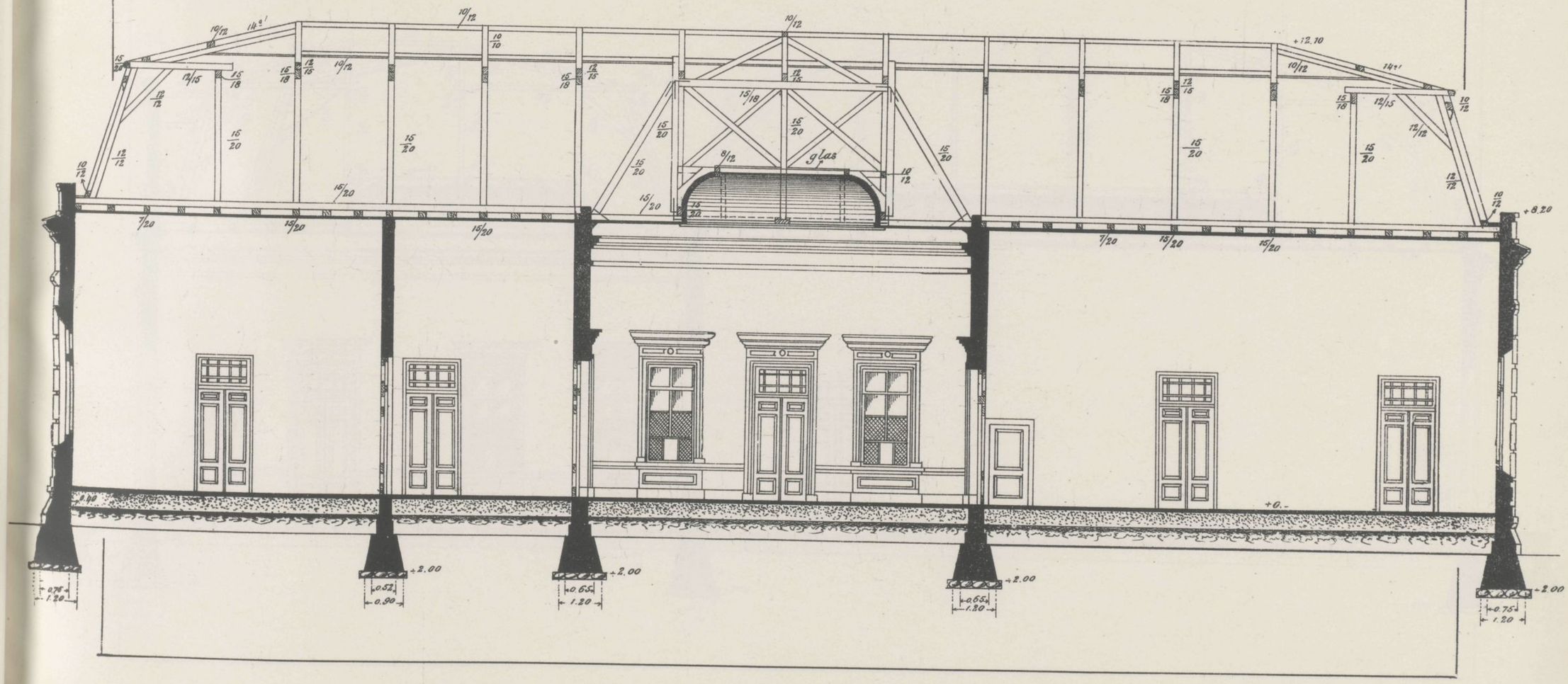
Plaat No. 28.

Ontwerp voor een Post- en Telegraafkantoor te Semarang.

Blad IV.

Doorsnede A. B.

1:100.

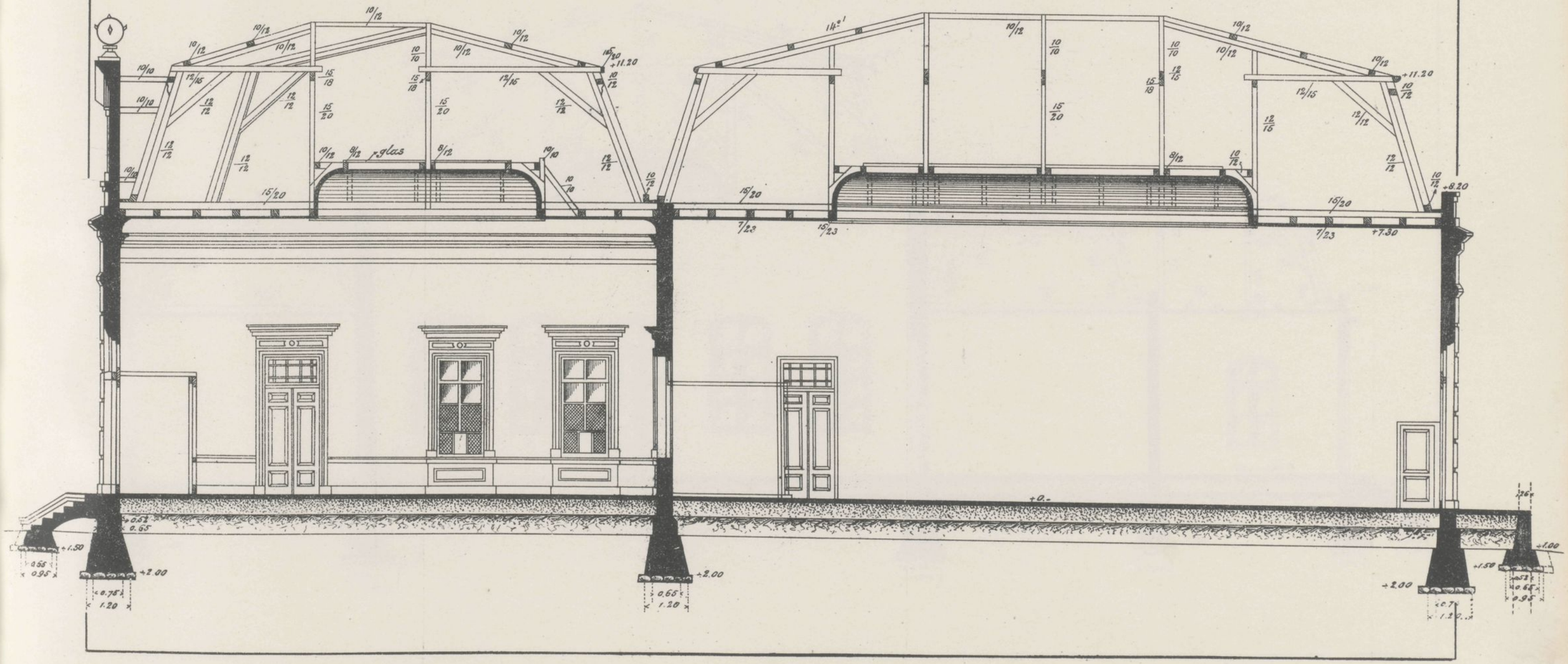


Ontwerp voor een Post- en Telegraafkantoor te Semarang.

Blad V.

Doorsnede C. D.

1:100.

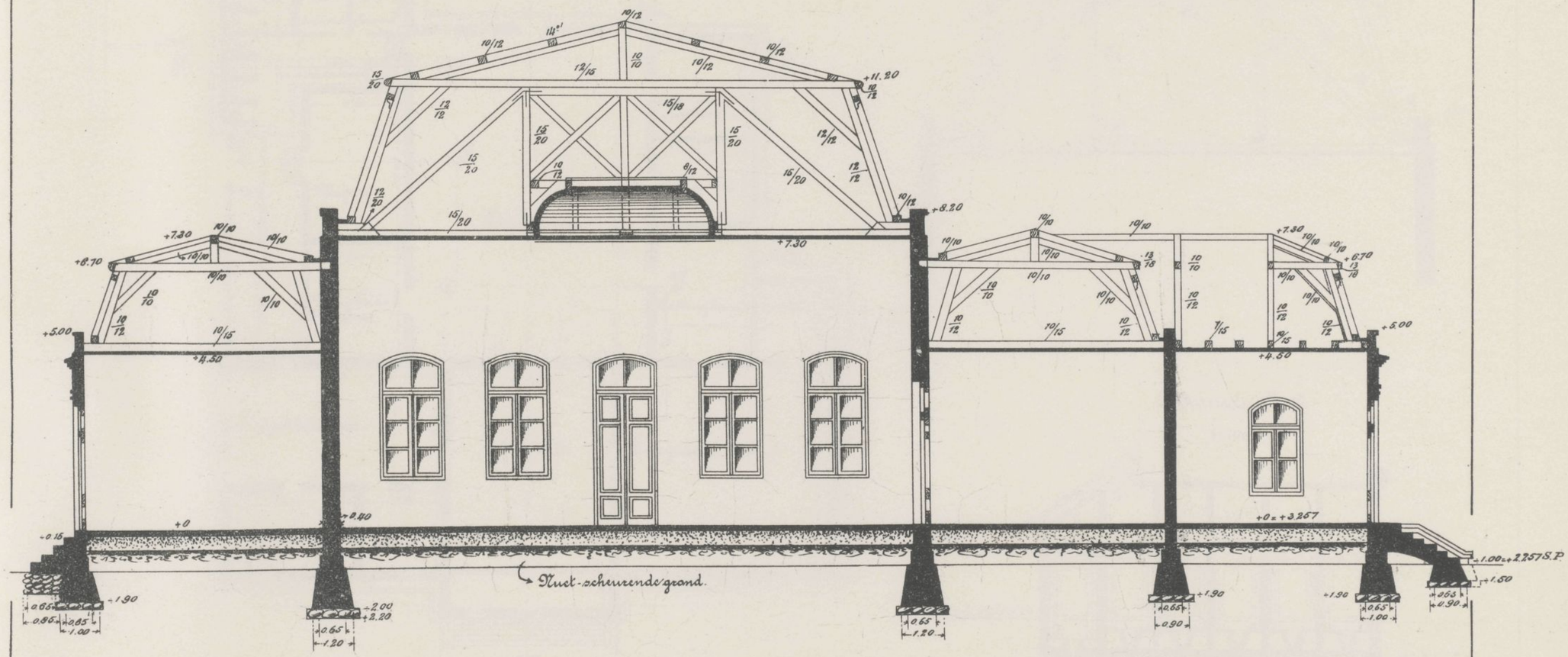


Ontwerp voor een Post- en Telegraafkantoor te Semarang.

Blad VI.

Doorsnede E.F.G.H.J.K.

1:100.

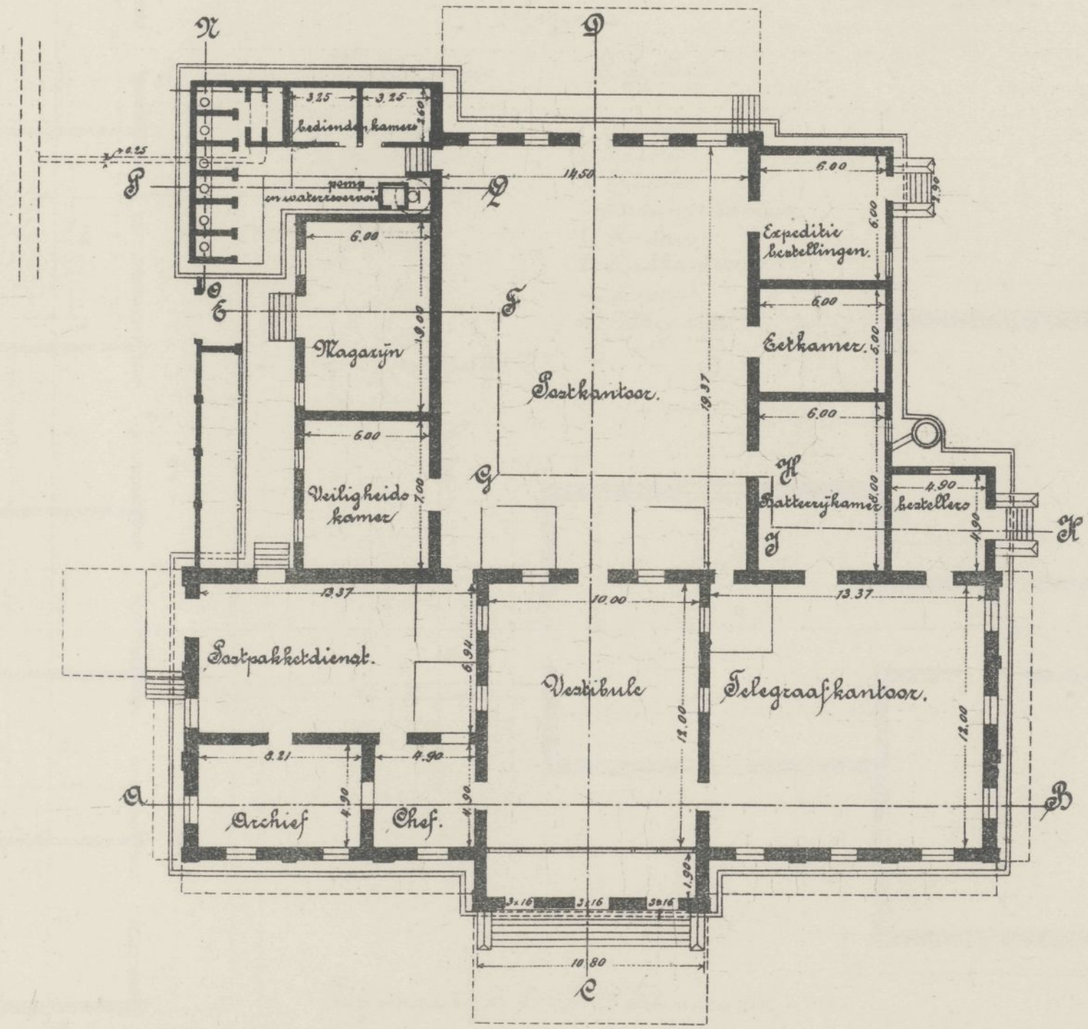


Ontwerp voor een Post- en Telegraafkantoor te Semarang.

Blad VIII.

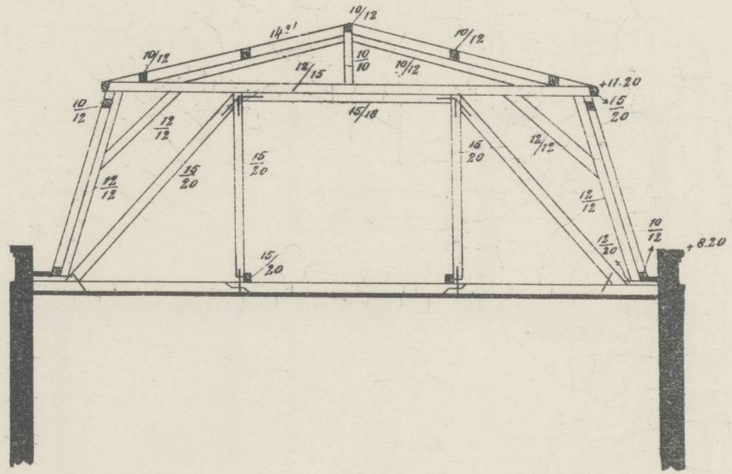
Platte-grond.

1:250.



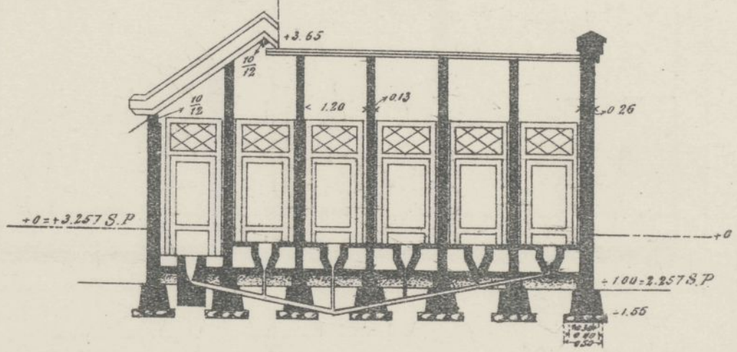
Doorsnede L.M.

1:100.



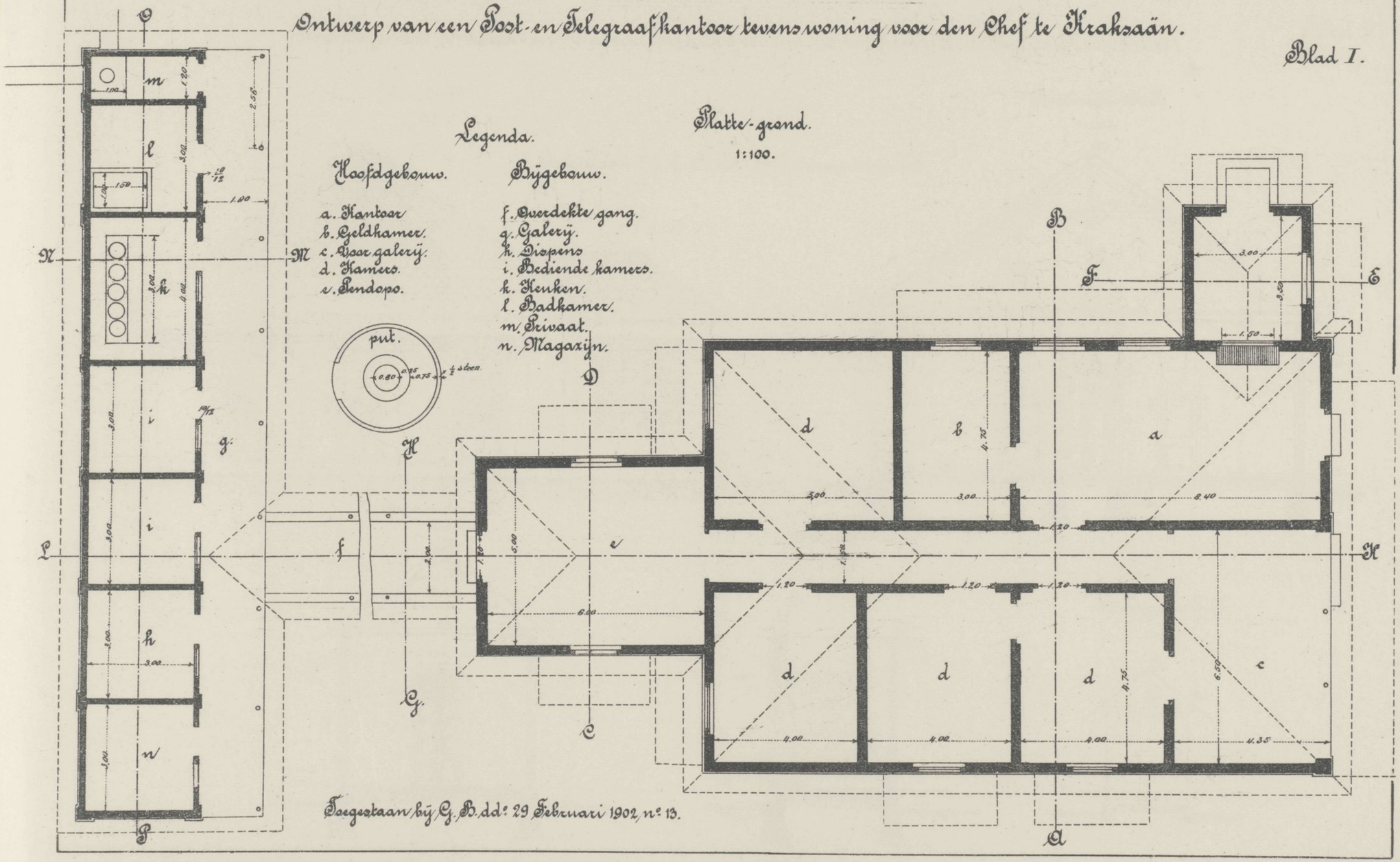
Doorsnede N.O.

1:100.



Ontwerp van een Post- en Telegraafkantoor tevens woning voor den Chef te Krakszaän.

Blad I.

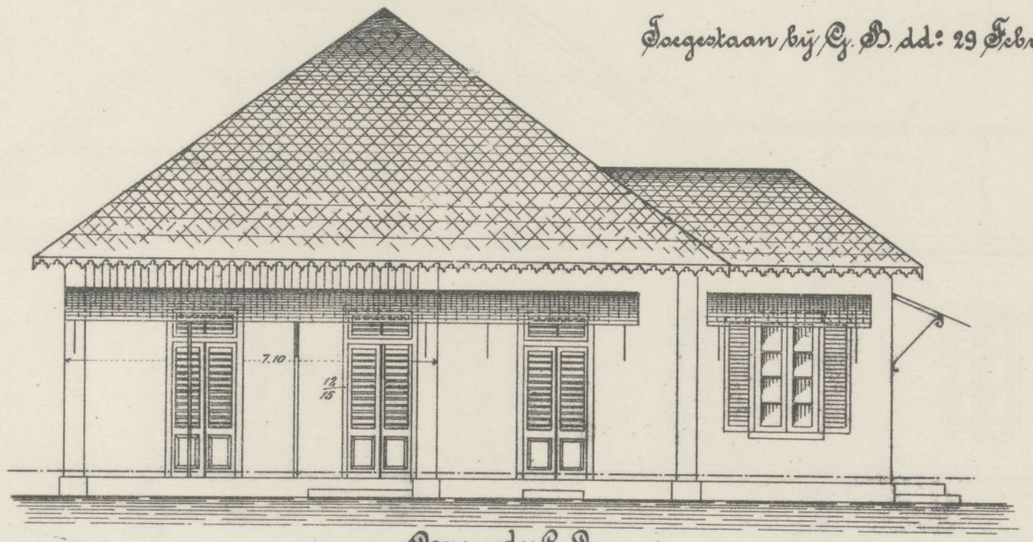


Blad II.

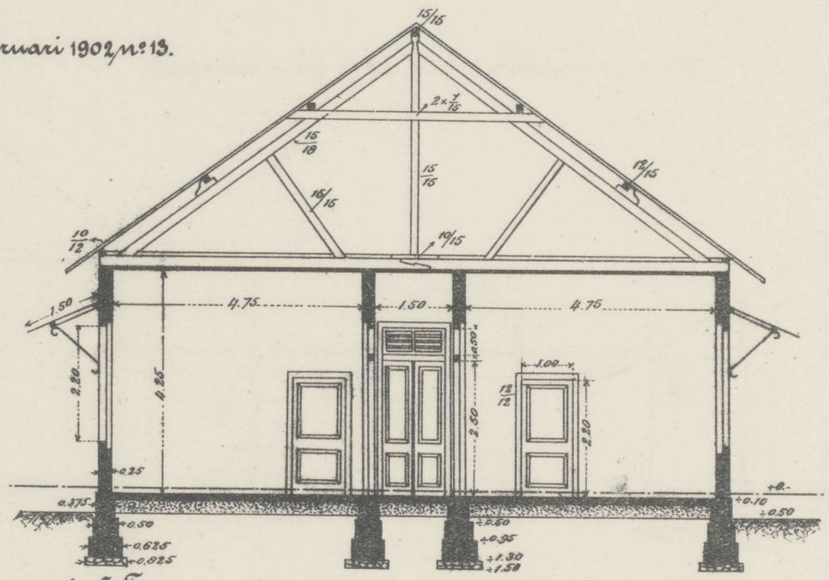
Ontwerp van een Post- en Telegraafkantoor tevens woning voor den Chef te Krakzaän.

Aanzicht.
1:100.

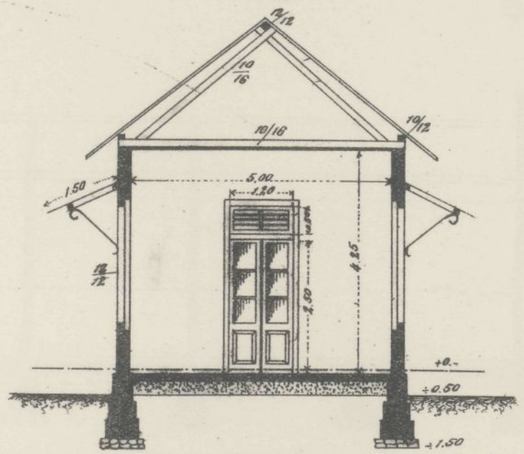
Toegestaan bij G. B. dd: 29 Februari 1902 n°: 13.



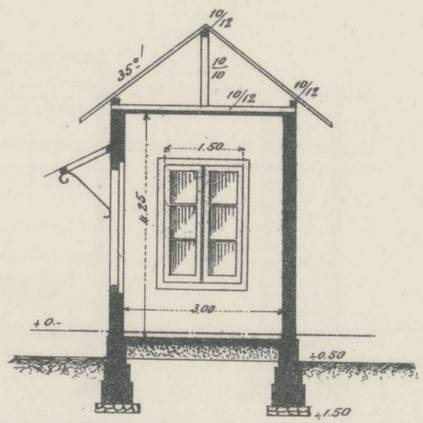
Doorsnede A. B.
1:100.



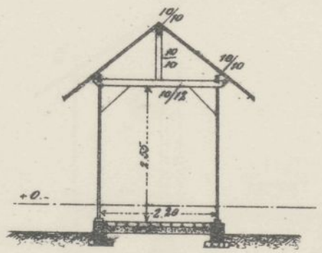
Doorsnede C. D.
1:100.



Doorsnede E. F.
1:100.



Doorsnede G. H.
1:100.



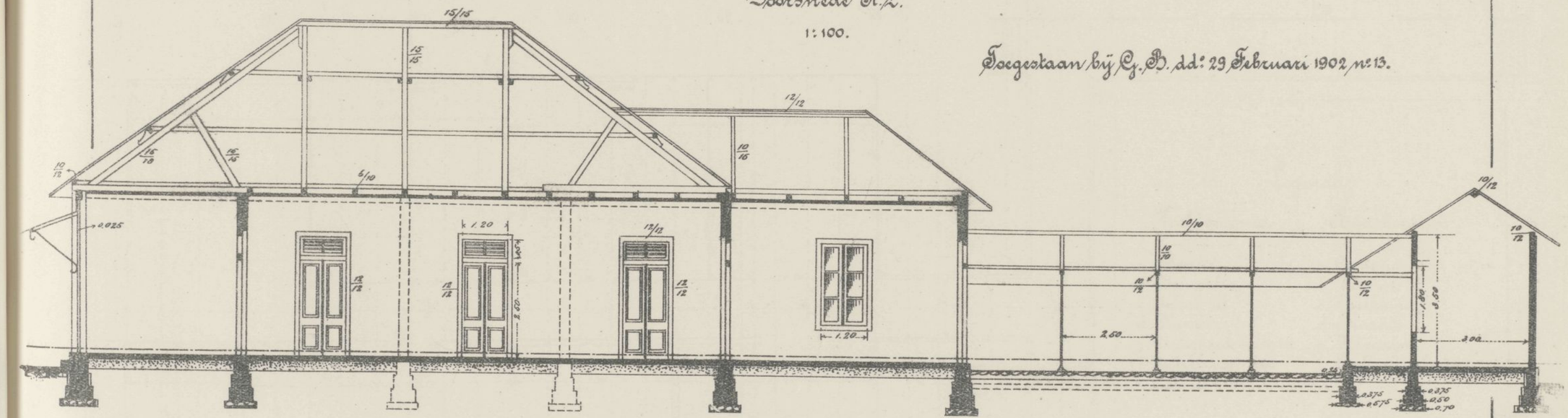
Ontwerp van een Post-en Telegraafkantoor tevens woning voor den Chef te Krakzaän.

Blad III.

Doorsnede K.L.

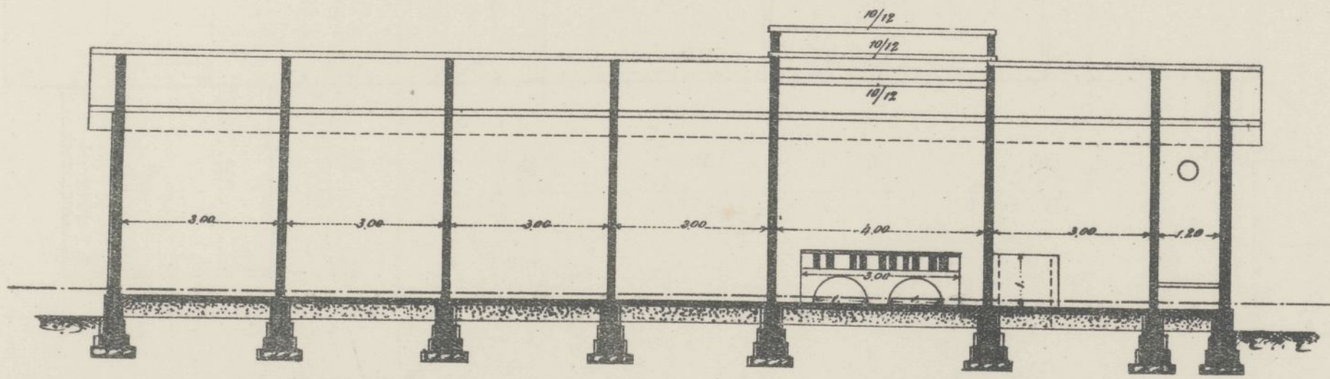
1:100.

Toegestaan bij G.B. dd: 29 Februari 1902 n°: 13.



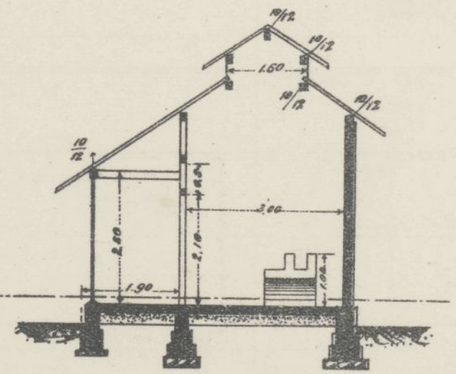
Doorsnede F.O.

1:100.



Doorsnede M.N.

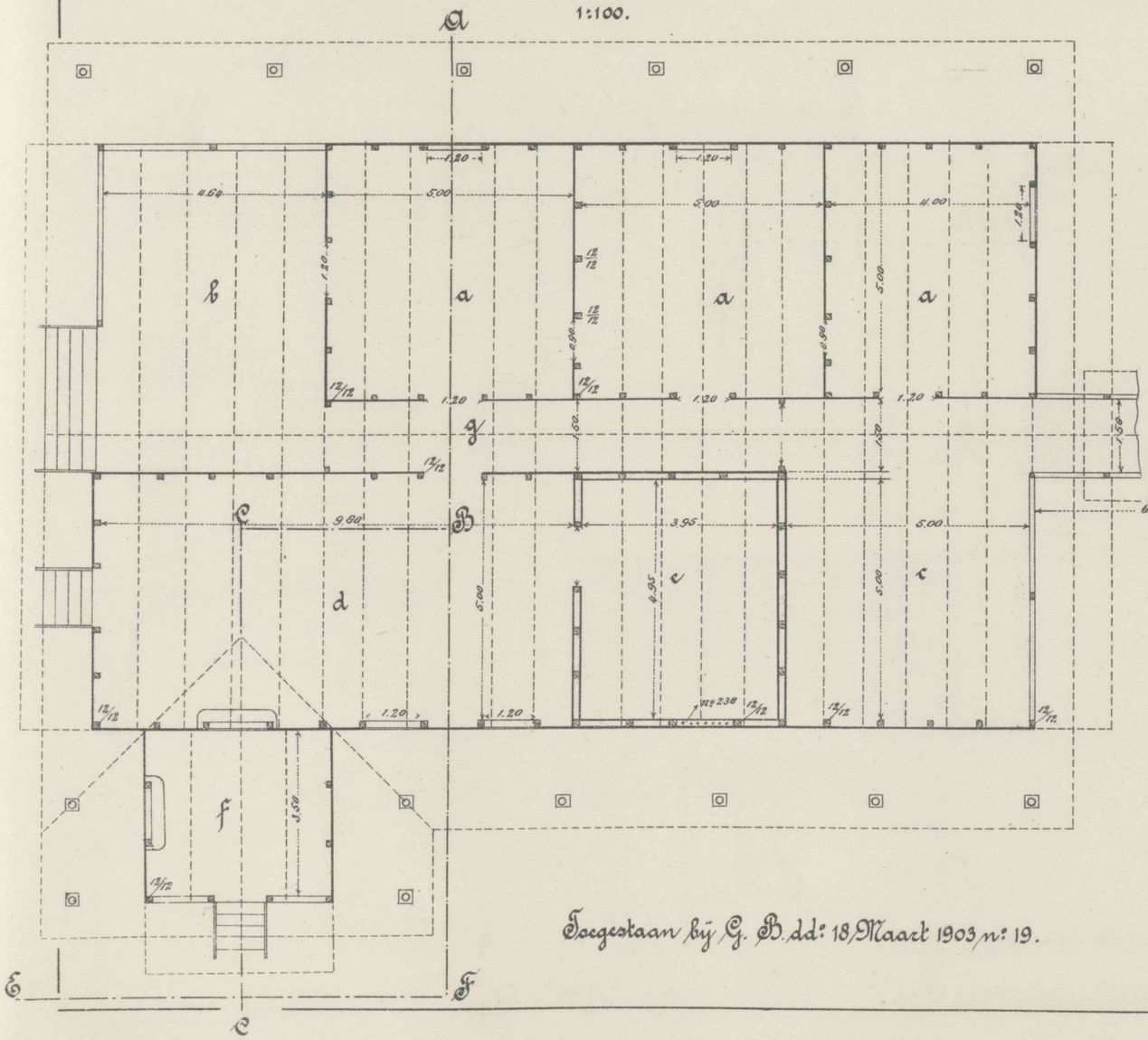
1:100.

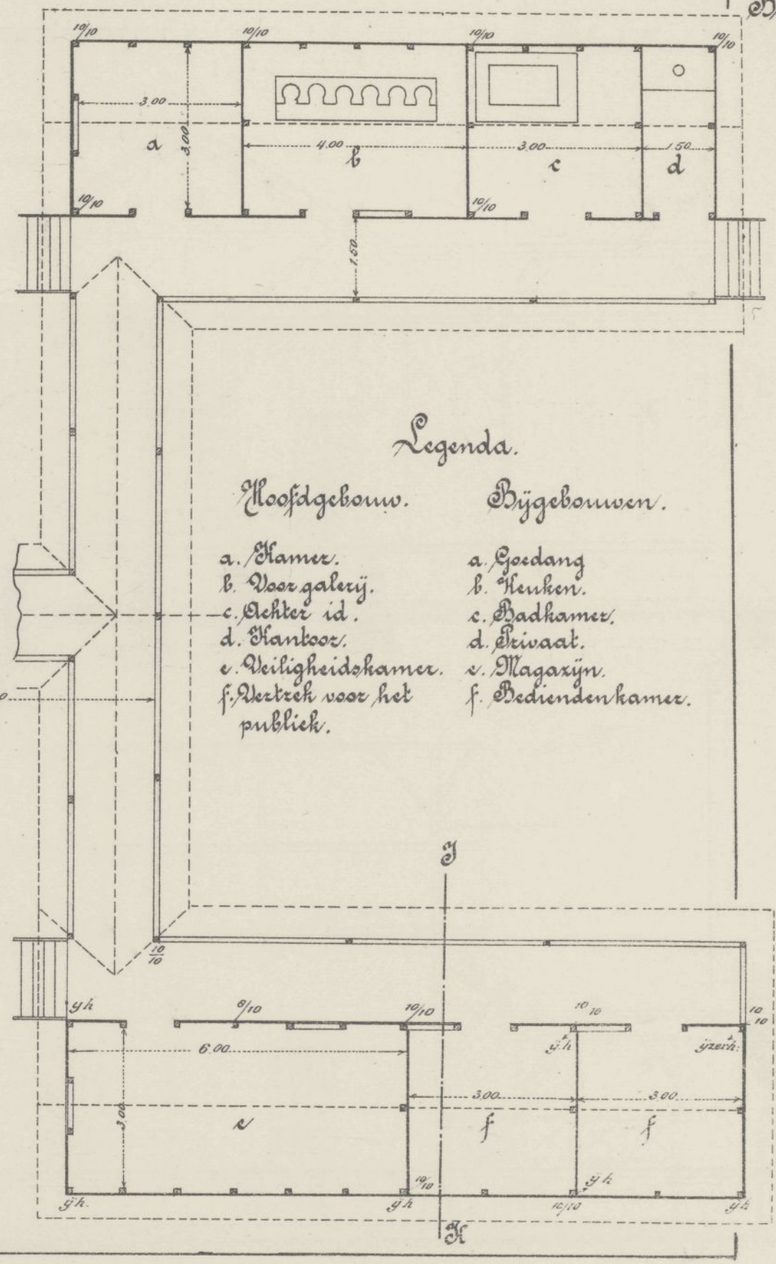


Post- en Telegraafkantoor 3e klasse te Samarinda.

Platte-grond.

1:100.





Legenda.

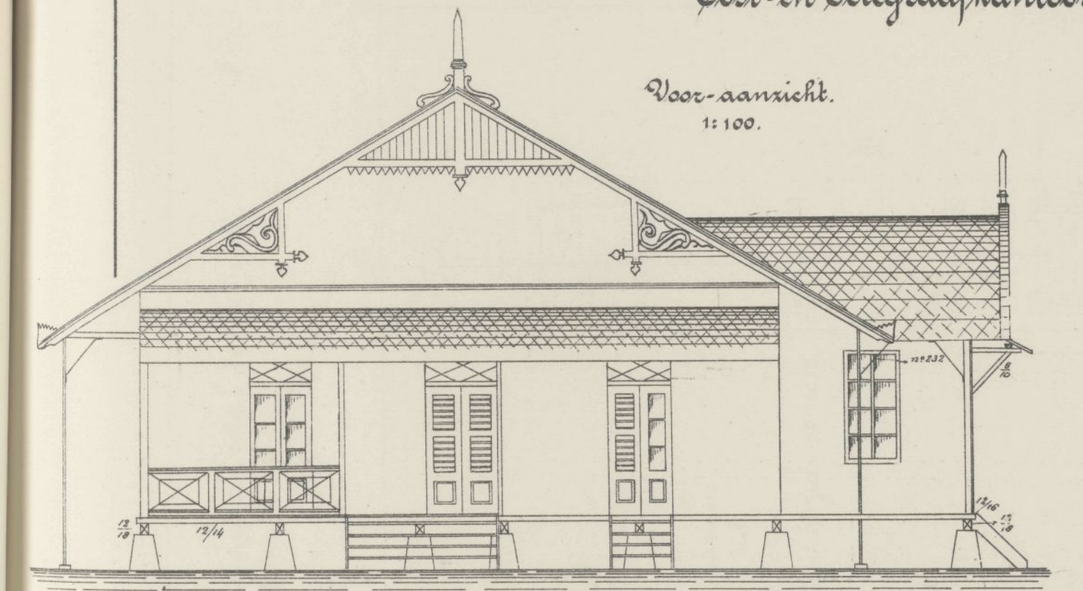
Hoofdgebouw.	Bijgebouwen.
a. Kamer.	a. Goedang
b. Voorgalerij.	b. Keuken.
c. Achter id.	c. Badkamer.
d. Kantoor.	d. Privaat.
e. Veiligheidskamer.	e. Magazijn.
f. Aftrek voor het publiek.	f. Bedienden kamer.

Toegestaan bij G. B. dd: 18 Maart 1903 n: 19.

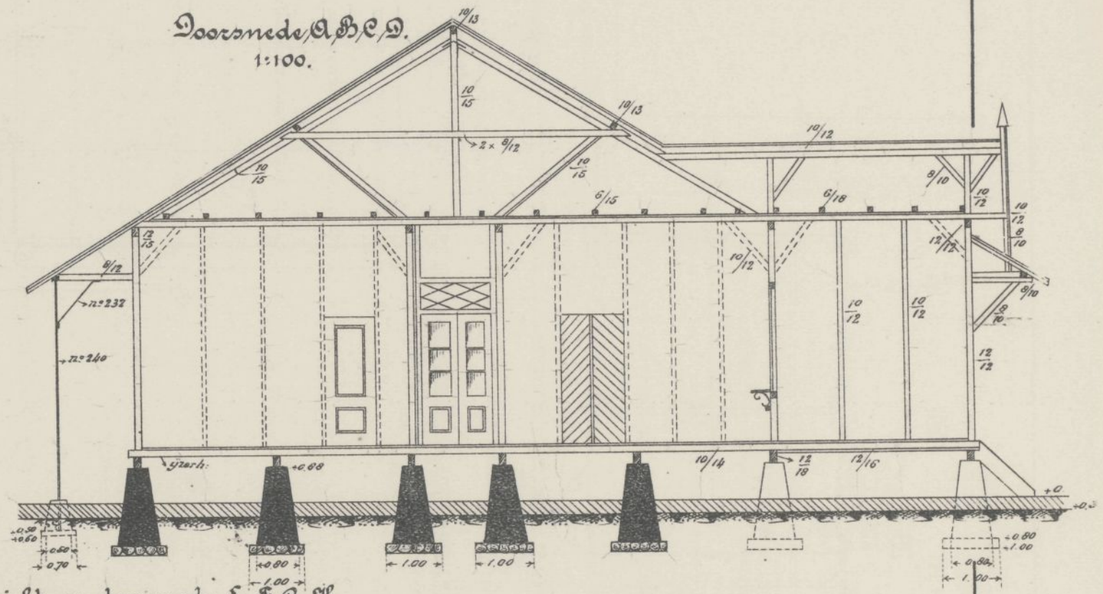
Post- en Telegraafkantoor 3e klasse te Samarinda.

Blad II.

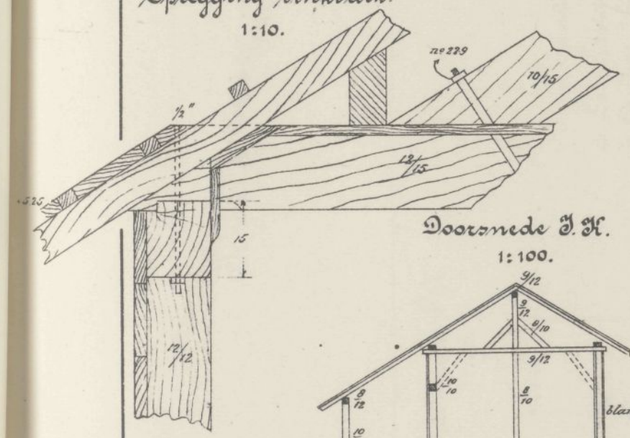
Voor-aanzicht.
1:100.



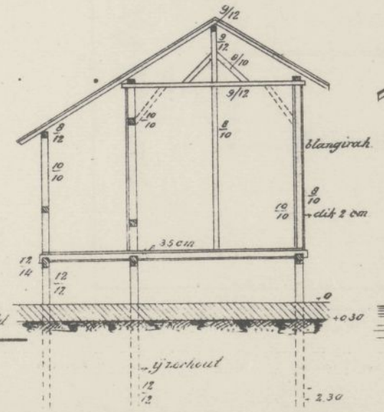
Doorsnede A.B.C.D.
1:100.



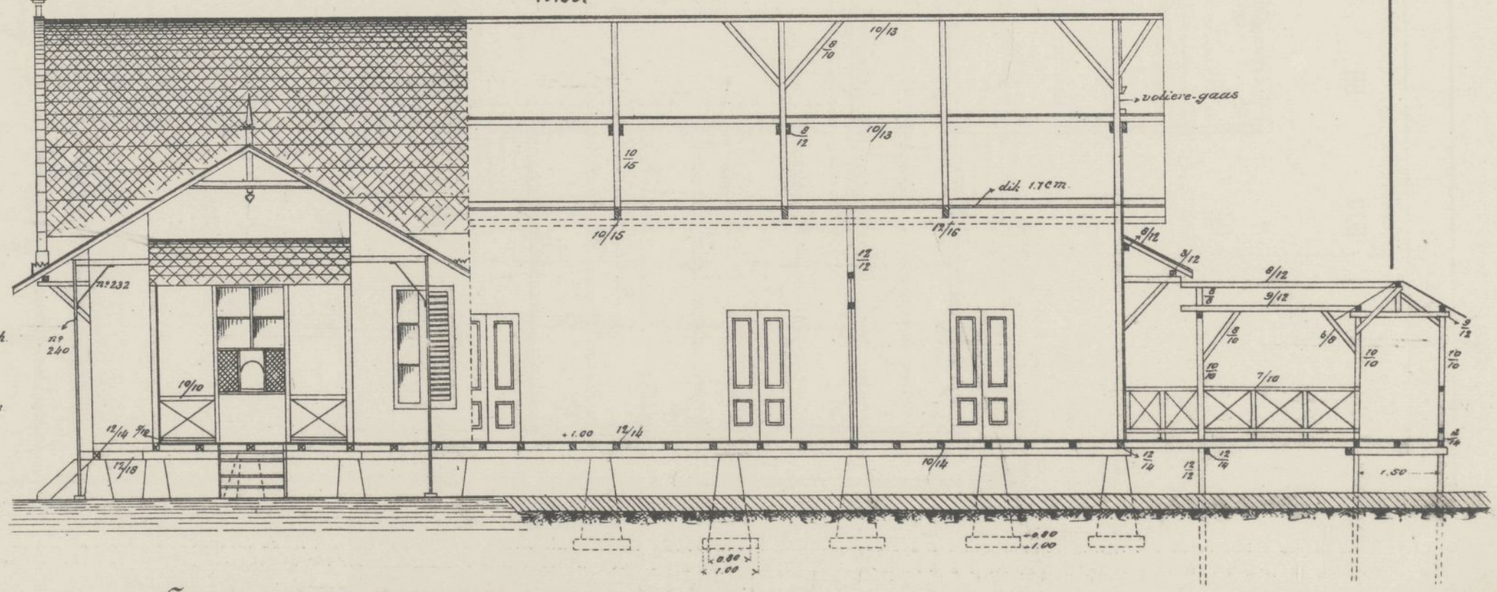
Oplegging binkbalk.
1:10.



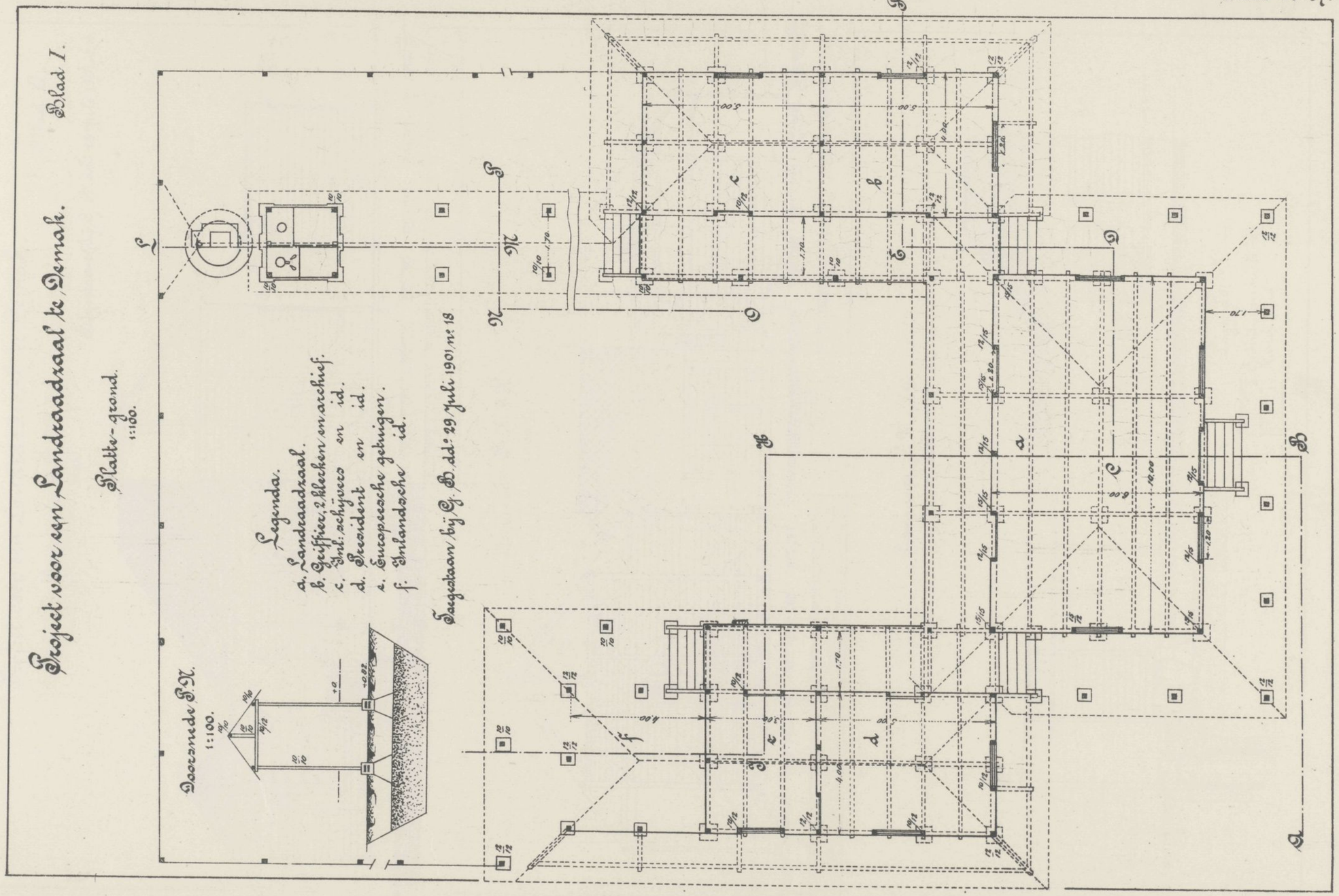
Doorsnede J.K.
1:100.



Aanzicht en doorsnede E.F.G.H.
1:100.



Toegezaan bij G.B. dd: 18 Maart 1903


Project voor een Landraadraal te Demak.
Blad I.
Platte-grond.
1:100.
Legenda.
a. Landraadraal.
b. Griffie, 2 kleuren en archief.
c. Inl. schijveo en id.
d. Gevangen id.
e. Europeesche gevangen.
f. Inlandsche id.
Doorsnede S.V.
1:100.
Aangekaan bij G. B. dd: 29 Juli 1901 N: 18

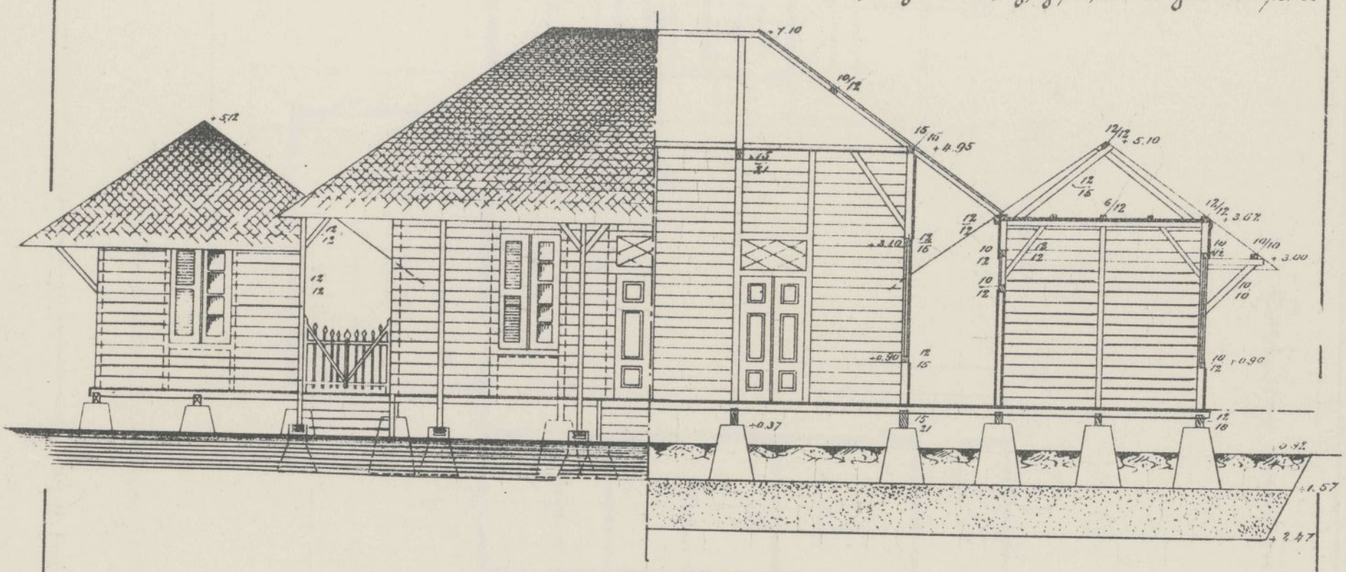
Project voor een Landraadraal te Demak.

Blad II.

Doorsnede A.B.C.D.E.F.

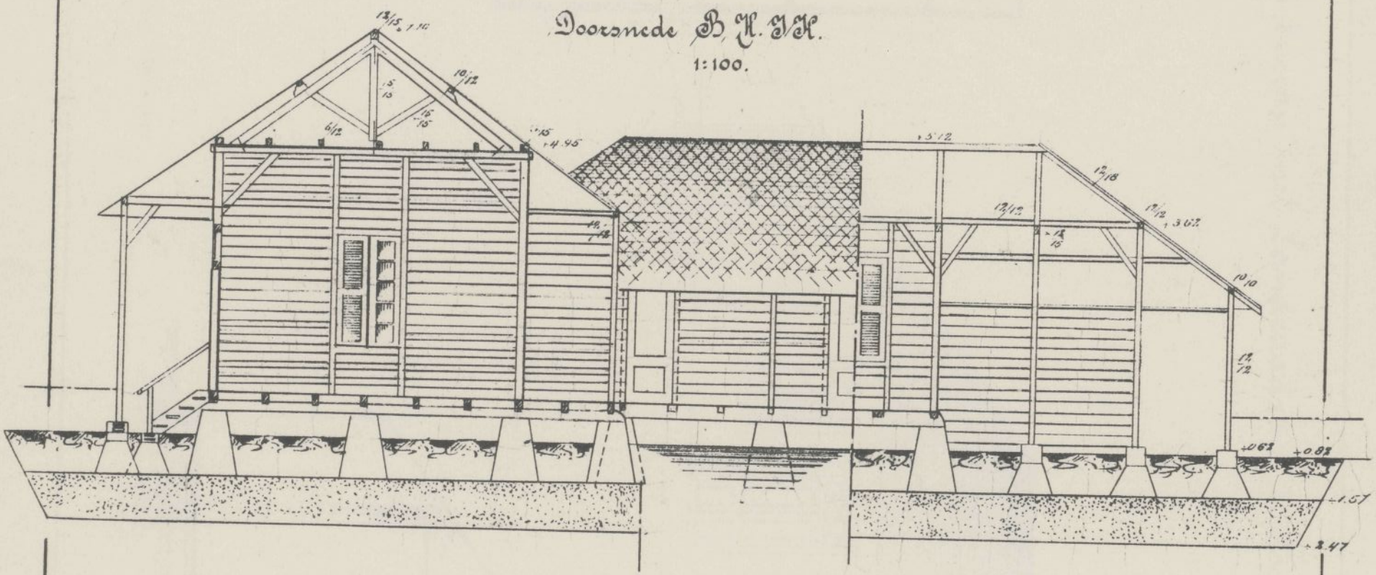
1:100.

Toegestaan bij G.B. dd. 29 Juli 1901 nr. 13.



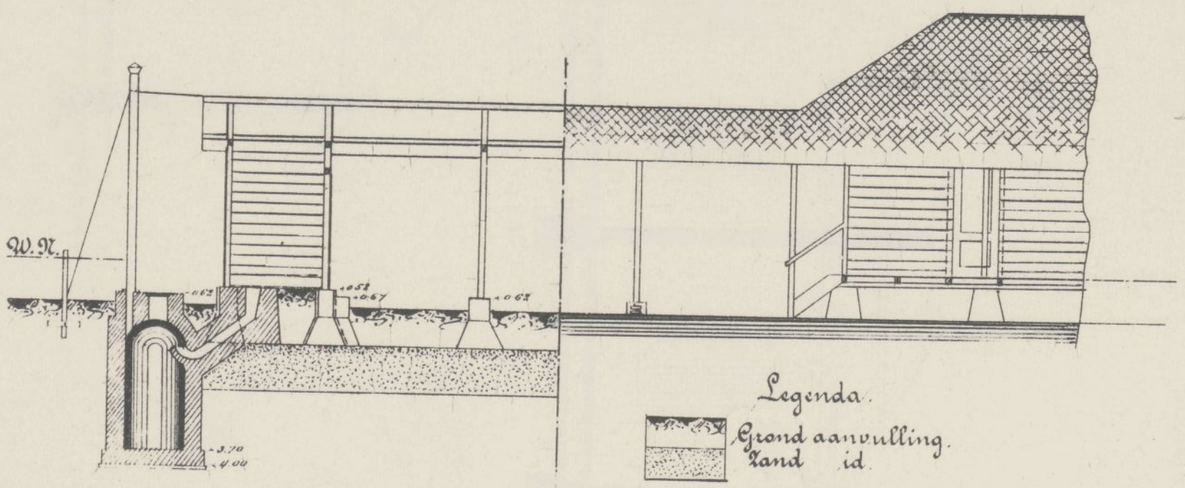
Doorsnede B.H.G.K.

1:100.



Doorsnede L.M.N.O.

1:100.

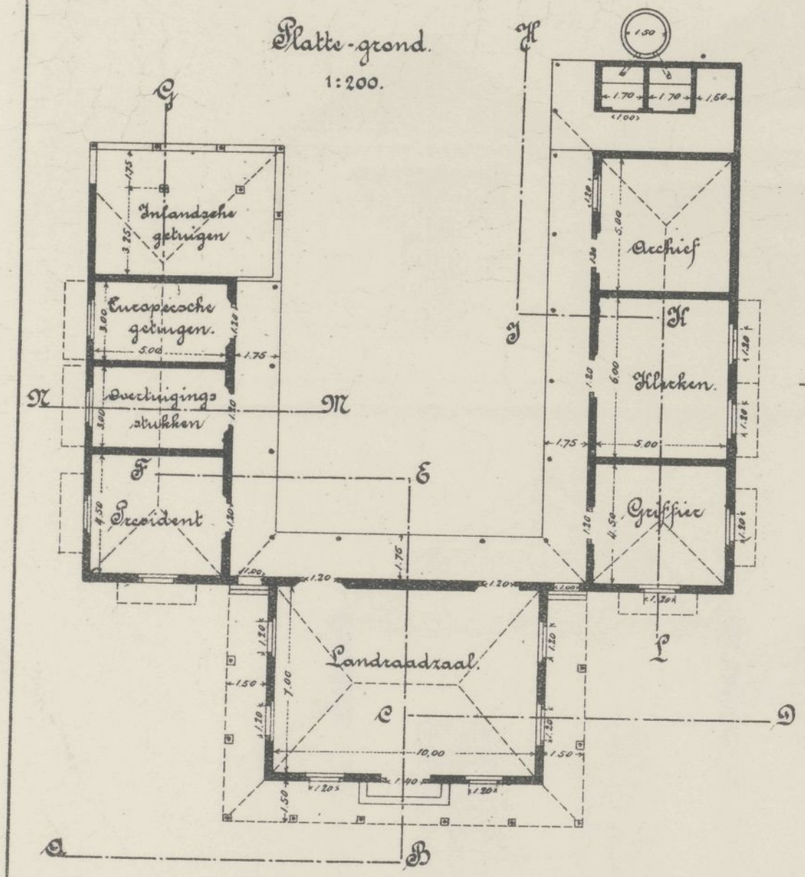


Plaat No. 38.

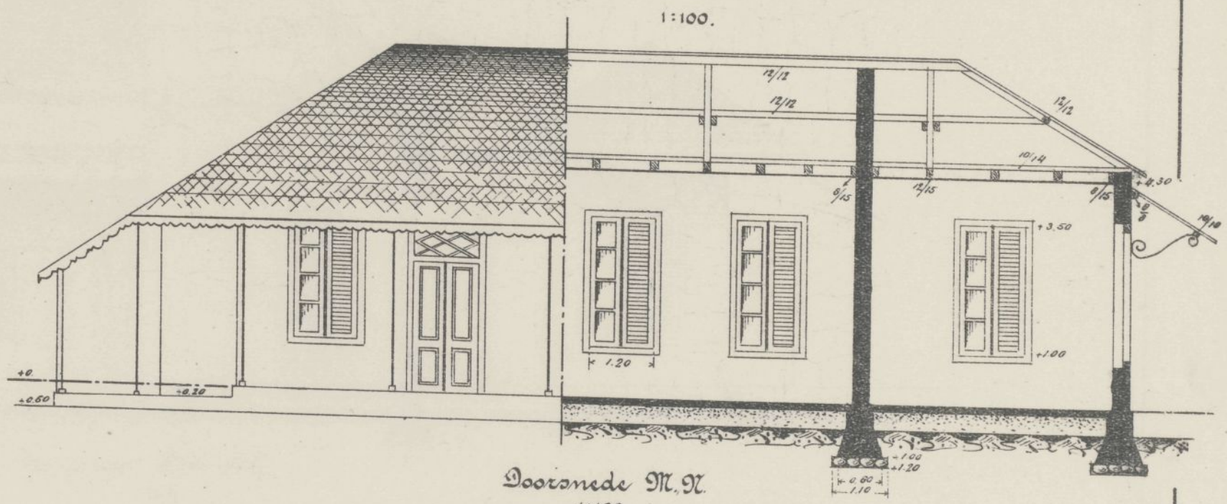
Ontwerp voor een bureau met Landraadzaal te Tocloeng-Agoeng.

Blad I.

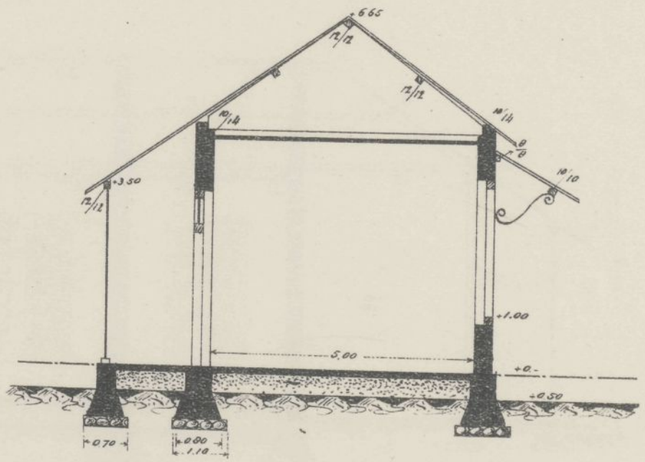
Platte-grond.
1:200.



Doorsnede H.J.K.L.
1:100.



Doorsnede M.N.
1:100.



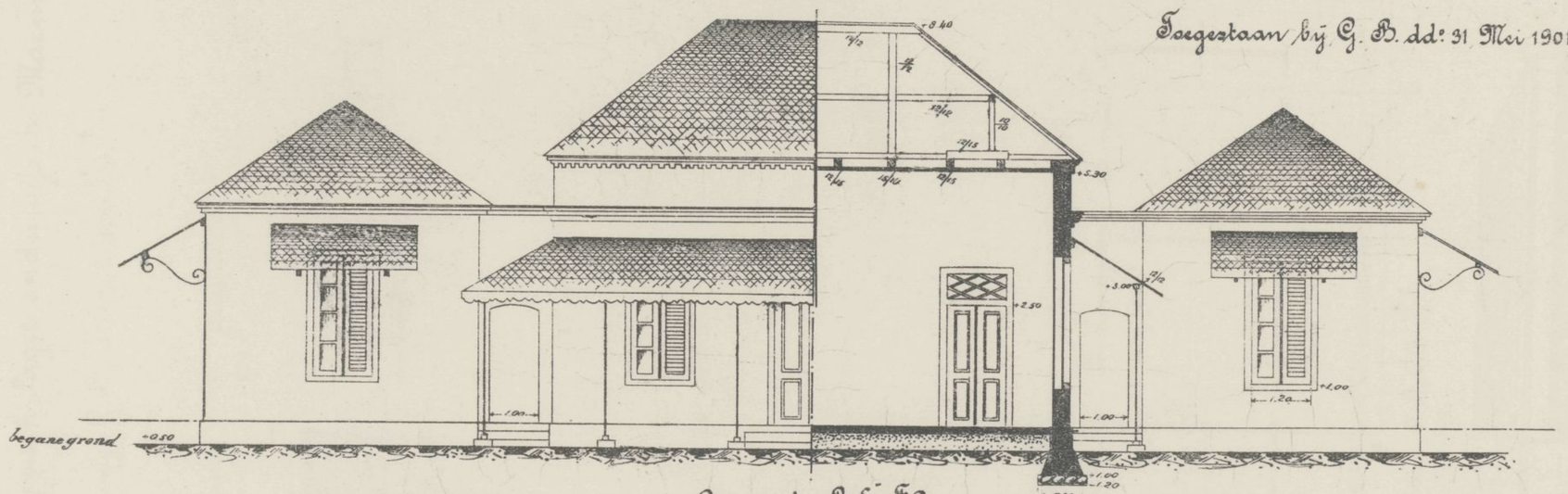
Toegestaan bij G.B. dd. 31 Mei 1901 No. 11.

Ontwerp voor een kurcau met Landraadraal te Tocloeng-Agoeng.

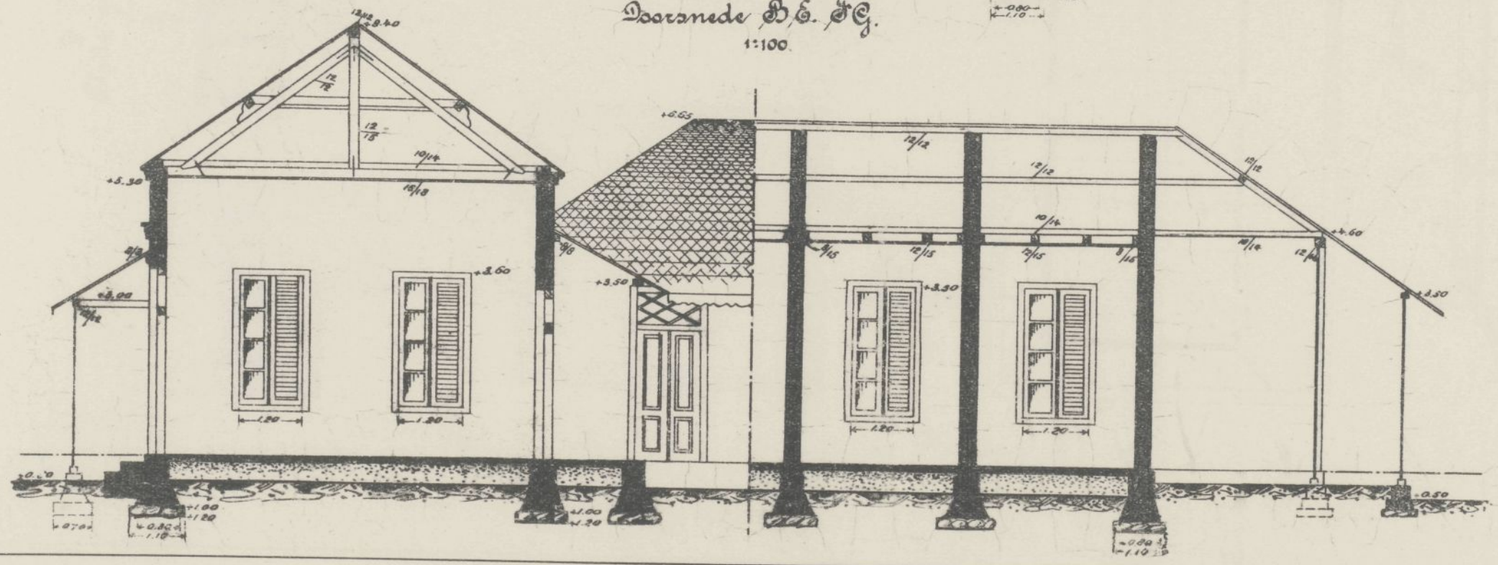
Blad II.

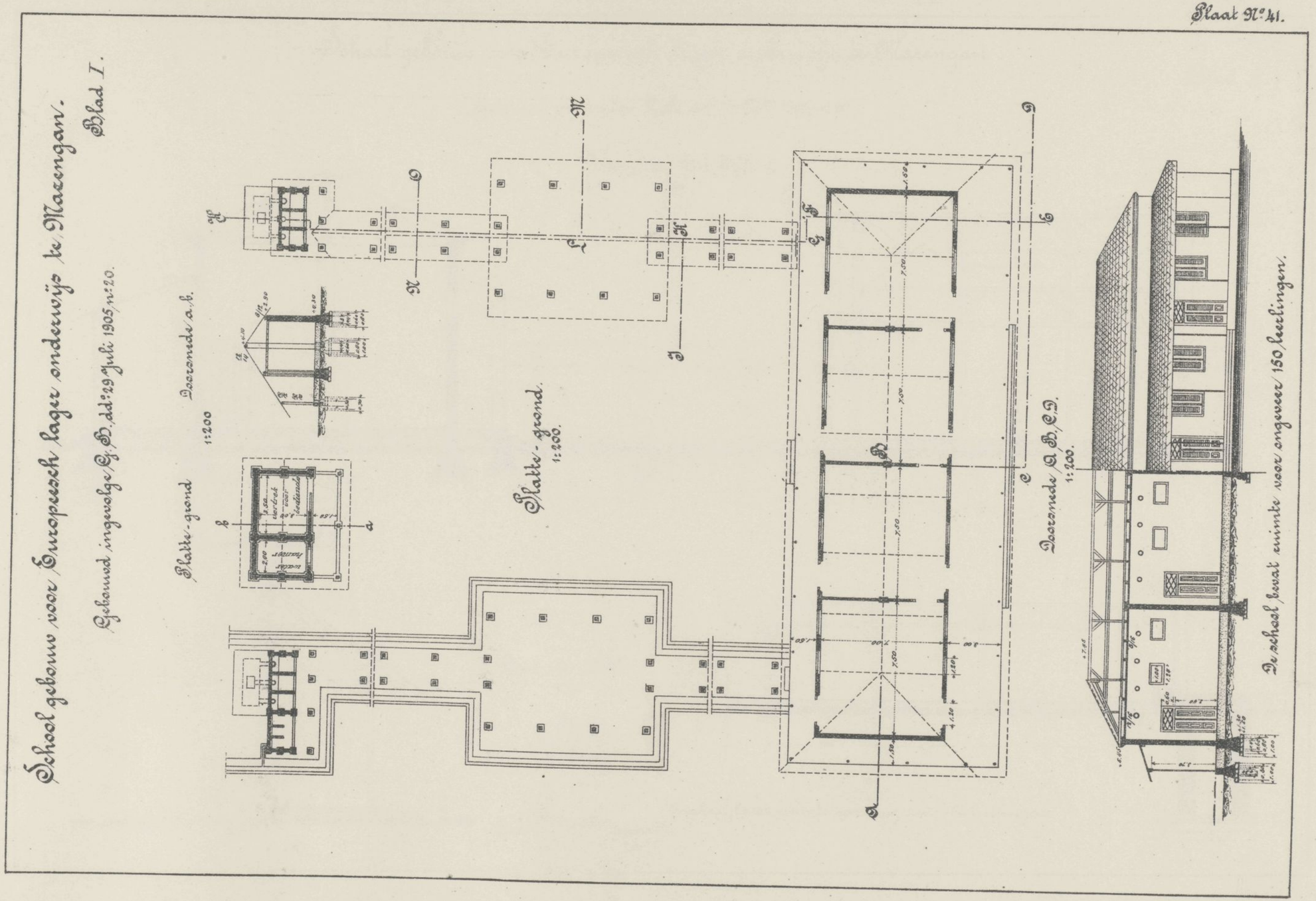
Opstand en doorsnede A. B. C. D.
1:100.

Toegestaan bij G. B. dd: 31 Mei 1901, n: 11.



Doorsnede E. F. G.
1:100.





School gebouw voor Europesch lager onderwijs te Magengan.

Gebouwd ingevolge G.G.B. dd: 29 Juli 1905 n: 20.

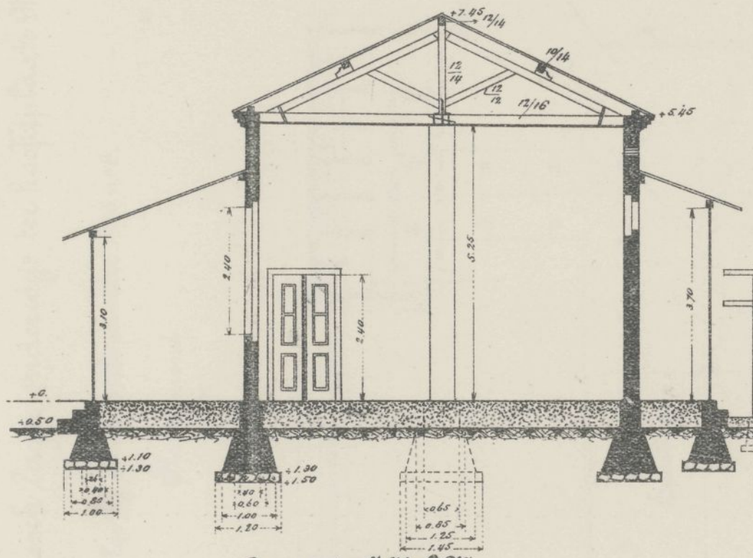
Blad I.

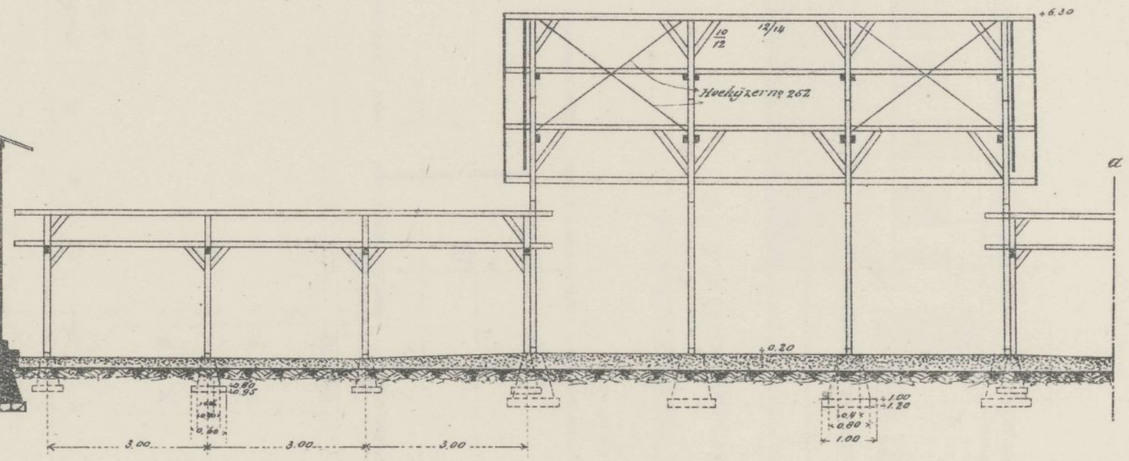
School gebouw voor Europeesch lager onderwijs te Marengan.

Blad II.

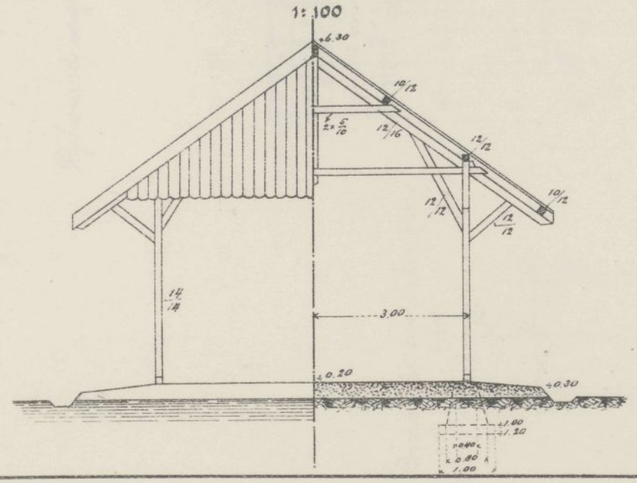
Gebouwd ingevolge G.B. dd: 29 Juli 1905 n: 20.

Doorsnede E F. G H.
1:100.

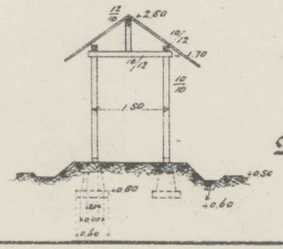


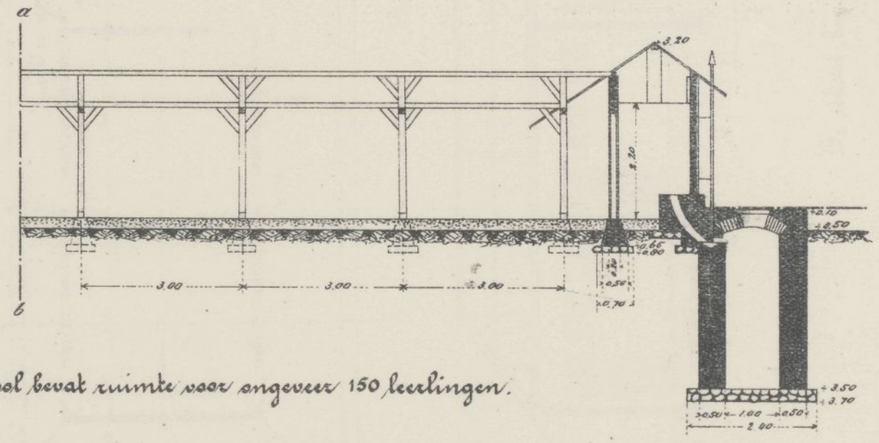


Doorsnede J K. L M.
1:100



Doorsnede N O.
1:100





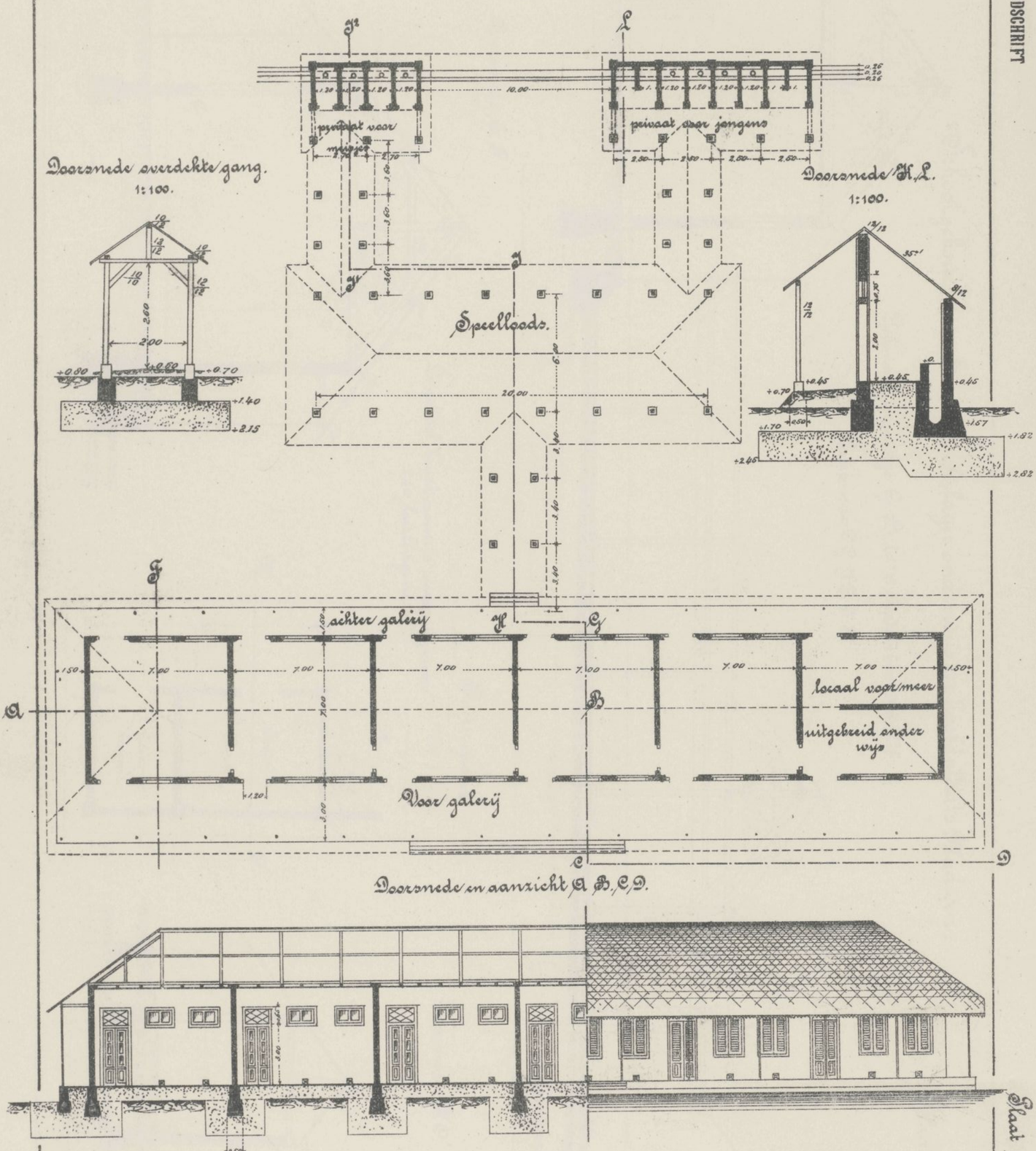
De school bevat ruimte voor ongeveer 150 leerlingen.

Schoolgebouw voor Europeesch lager onderwijs te hoofdplaats Madioen.

Blad 1.

Gebouwd ingevolge G. B. dd: 19 September 1906 n: 8.

Platte-grond.
1:200.



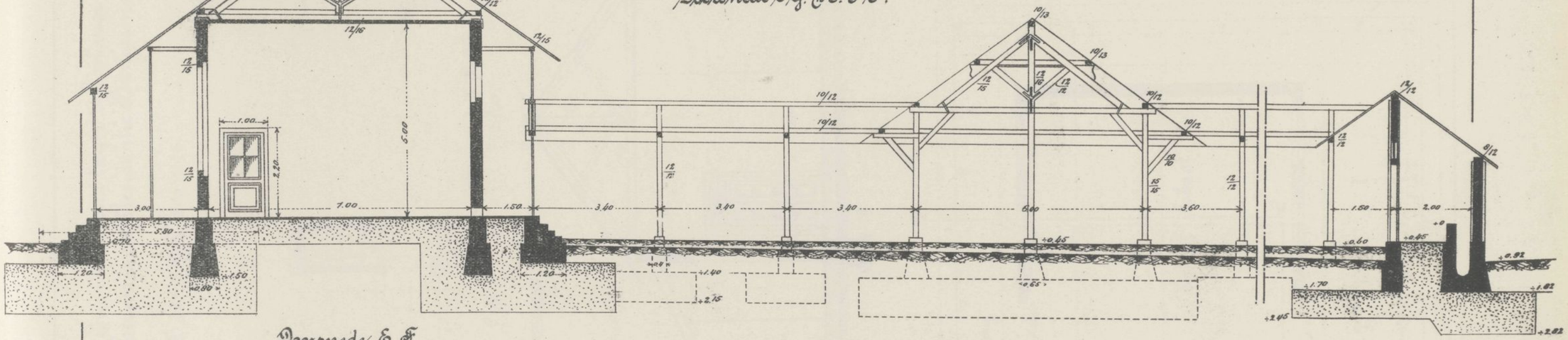
De school bevat ruimte voor ongeveer 240 leerlingen.

Schoolgebouw voor Europeesch lager onderwijs te hoofdplaats Madioen.

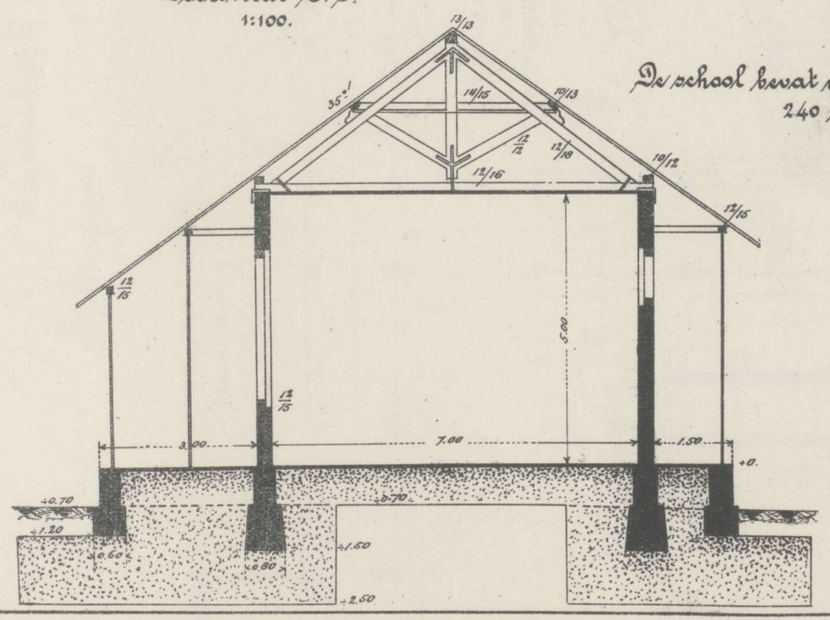
Blad II.

Gebouwd ingevolge G. B. dd. 19 September 1906, N°. 8.

Doorsnede C. G. H. S. J. J.

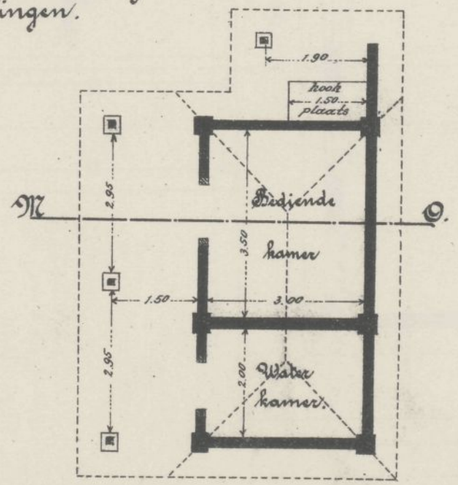


Doorsnede E. F.
1:100.

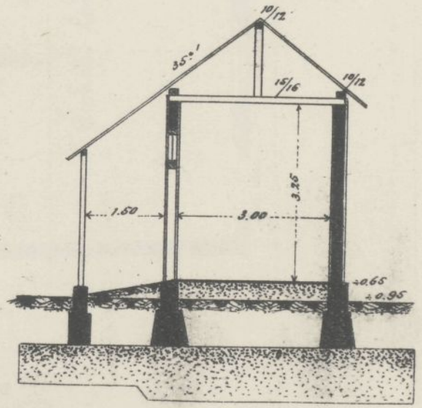


De school bevat ruimte voor ongeveer 240 leerlingen.

Platte-grond.
1:100.

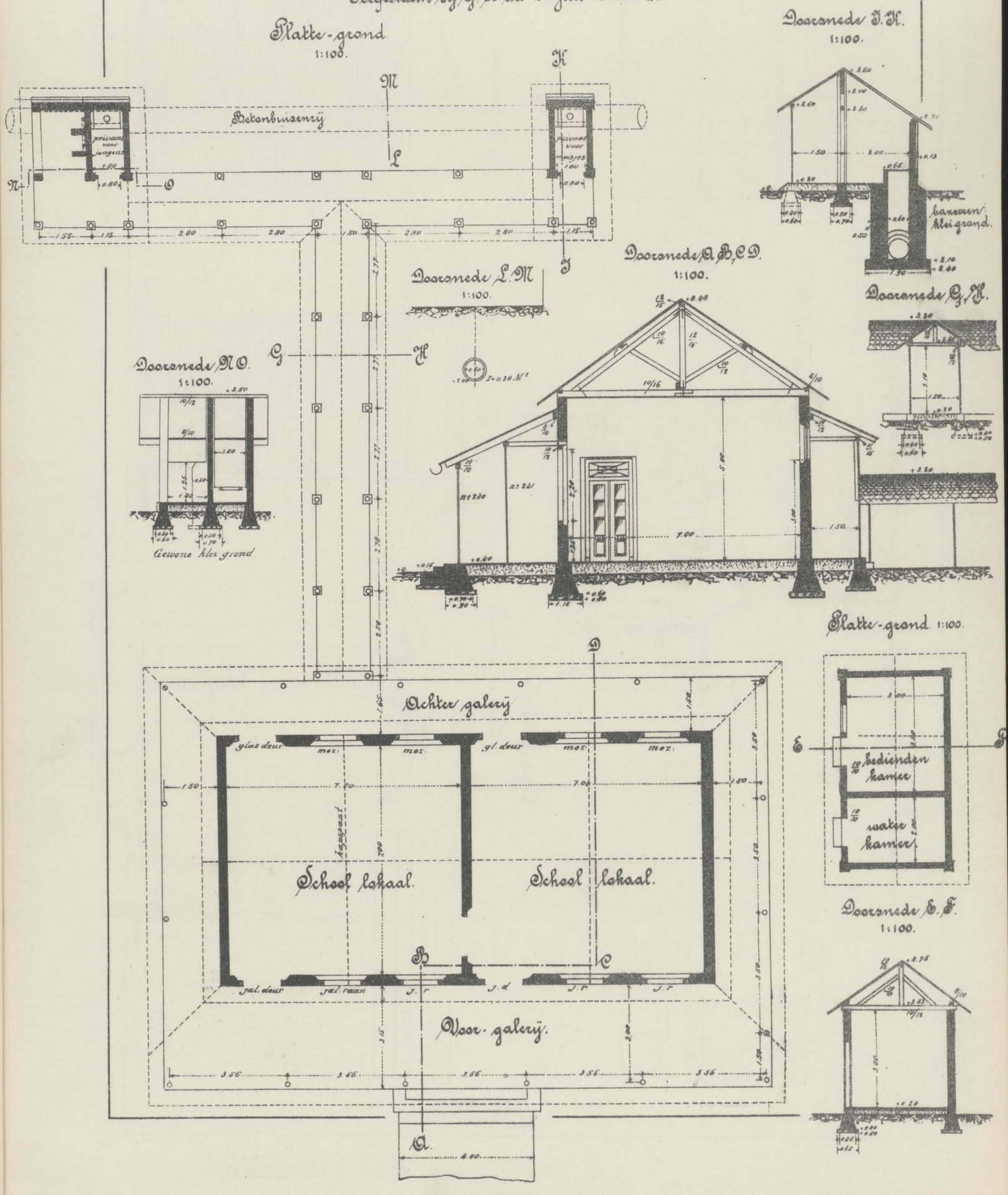


Doorsnede M O.
1:100.

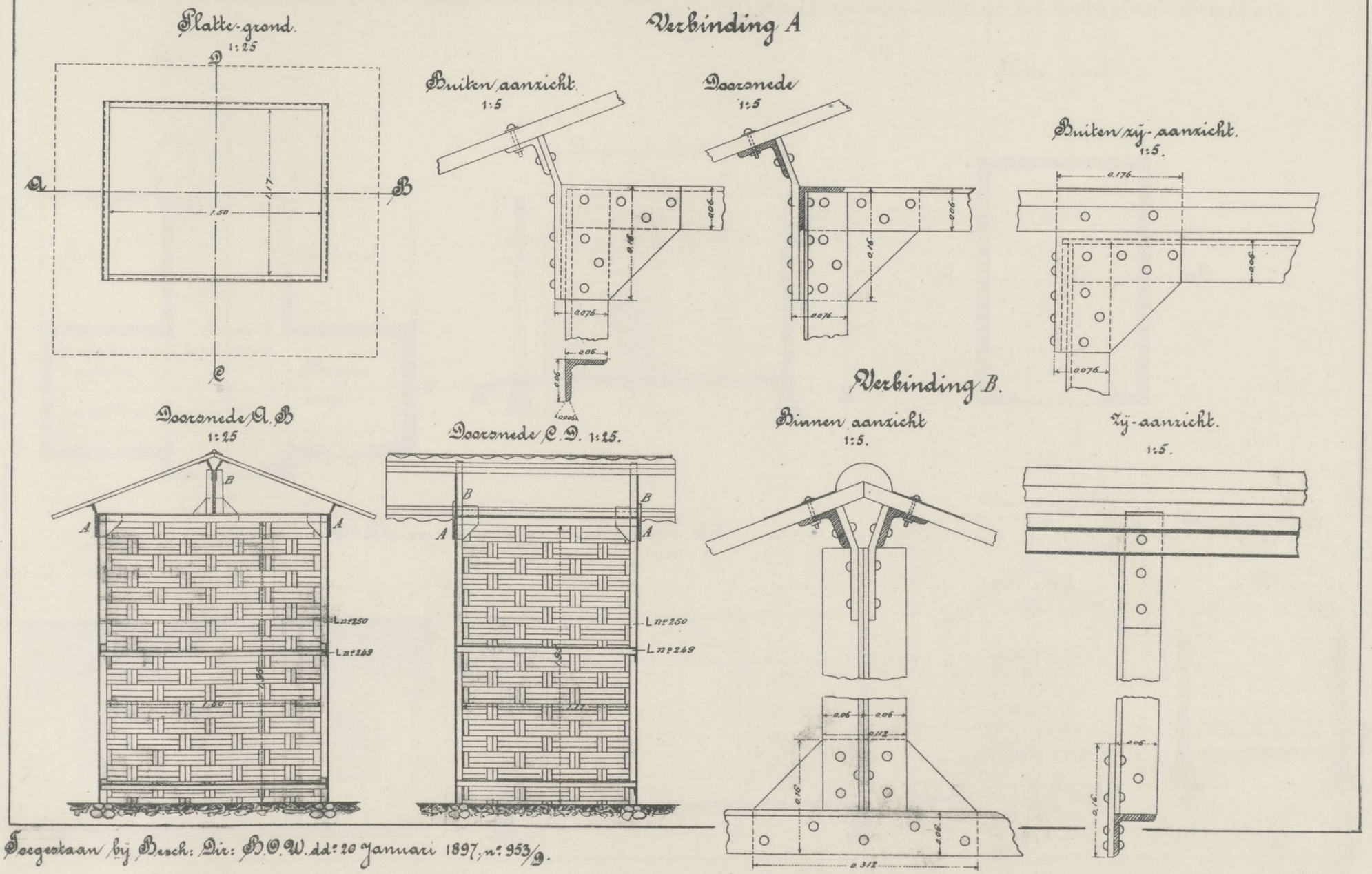


Ontwerp tot het bouwen van eene Eur: openbare lager school voor 40 tot 60 leerlingen te afd: hoofdplaats Poerwakerta Residentie Banjoemas.

Toegestaan bij G. B. dd: 25 Juli 1905 n°: 26.



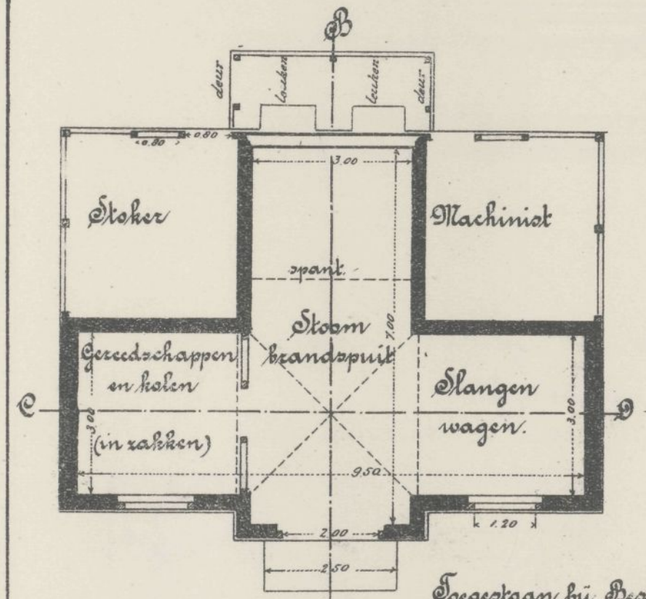
Project van een verplaatsbaar wachthuisje voor het district Kotta Soerabaia.



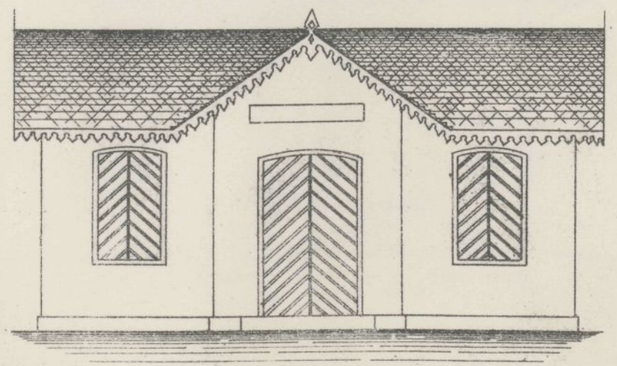
Toegestaan bij Besch: Dir: B.O.W. dd: 20 Januari 1897, n°: 953/9.

Stoombrandspuithuisje ter hoofdplaats Soerabaia.

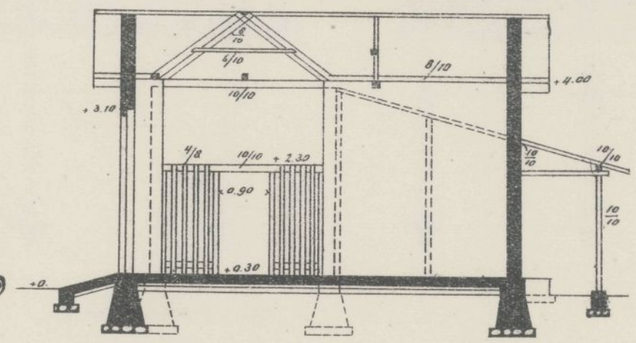
Platte-grond.
1:100.



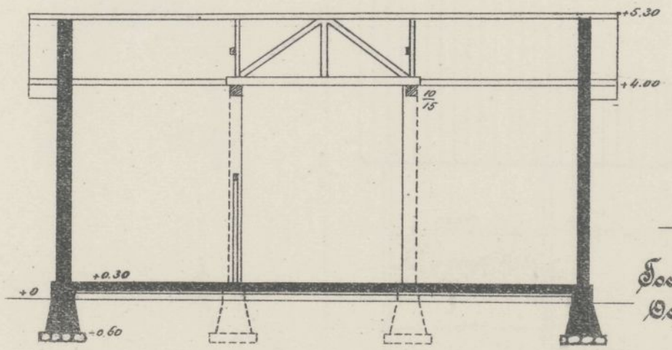
Voor-aanzicht.
1:100.



Doorsnede A. B.
1:100.



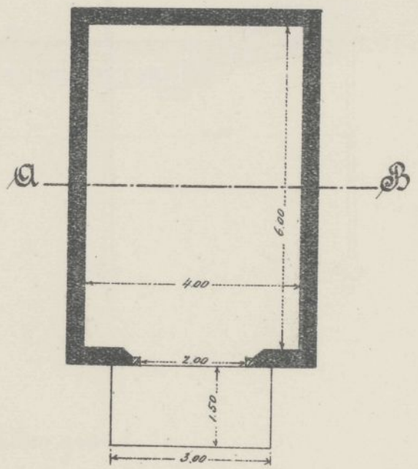
Doorsnede C D.
1:100.



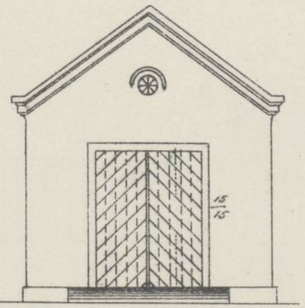
Toegestaan bij Besch: Dir: B.O.W.
dd: 5 Februari 1895 n: 2099/9.

Handbrandspuithuisje ter hoofdplaats Soerabaia.

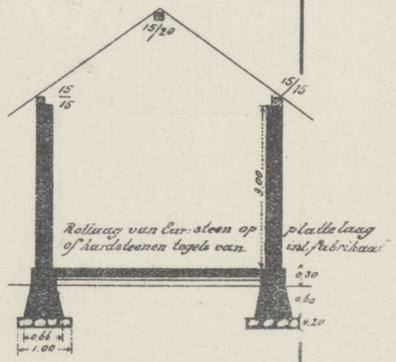
Platte-grond.
1:100.



Voor-aanzicht.
1:100.



Doorsnede A. B.
1:100

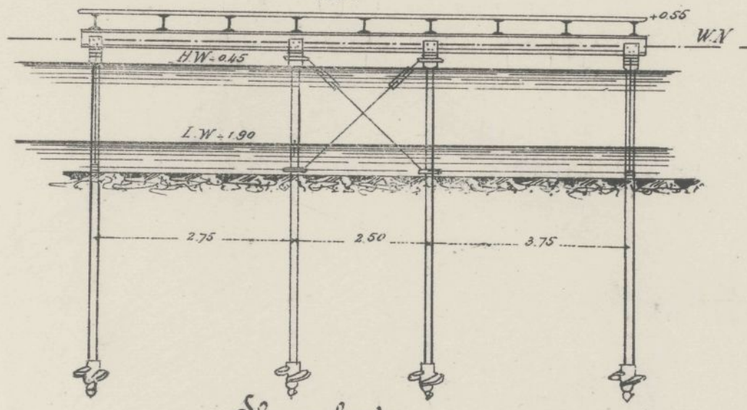


Toegestaan bij G. B. dd: 29
October 1893. n: 33.

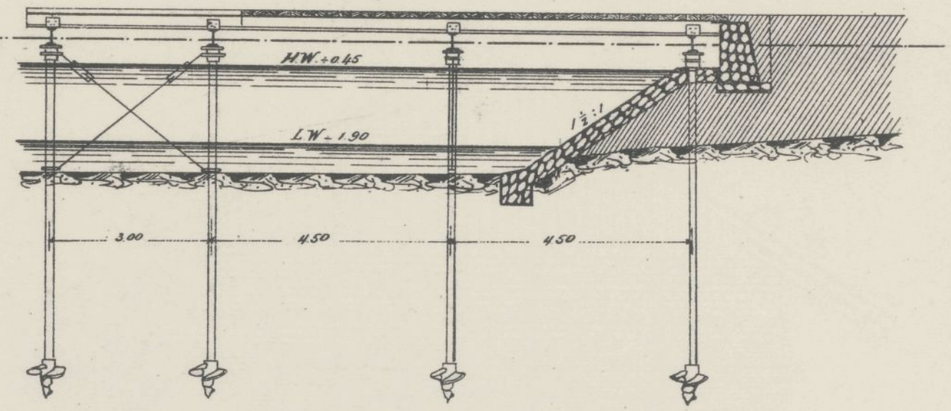
Haven Kaliboentoe in de afdeeling Krakseän.

Los- en landhoofd.

Voor-, aanzicht.
1:100.

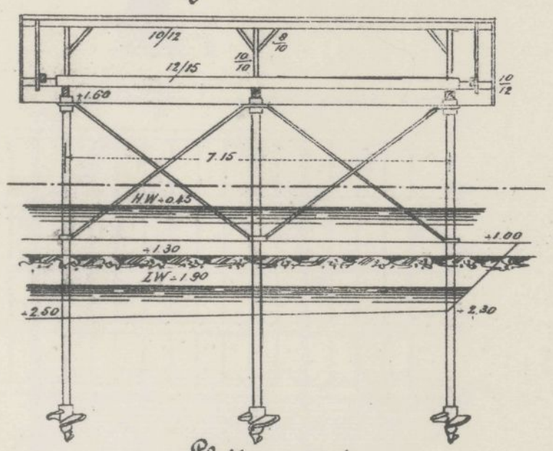


Aanzicht en doorsnede A. B. C. D.
1:100

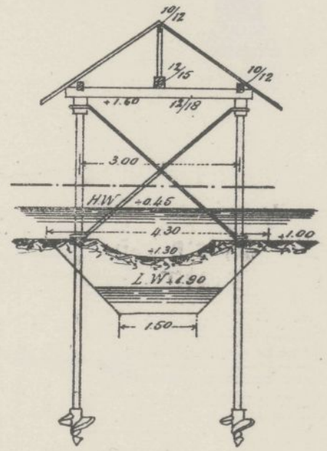


Sloepenloods.

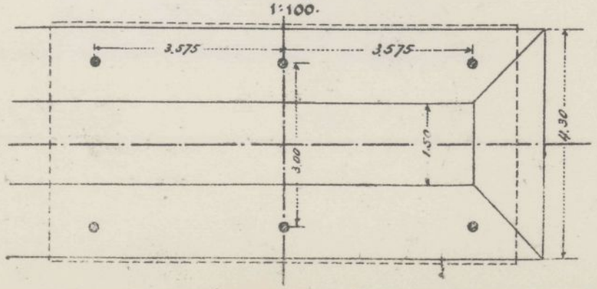
Lengte doorsnede 1:100.



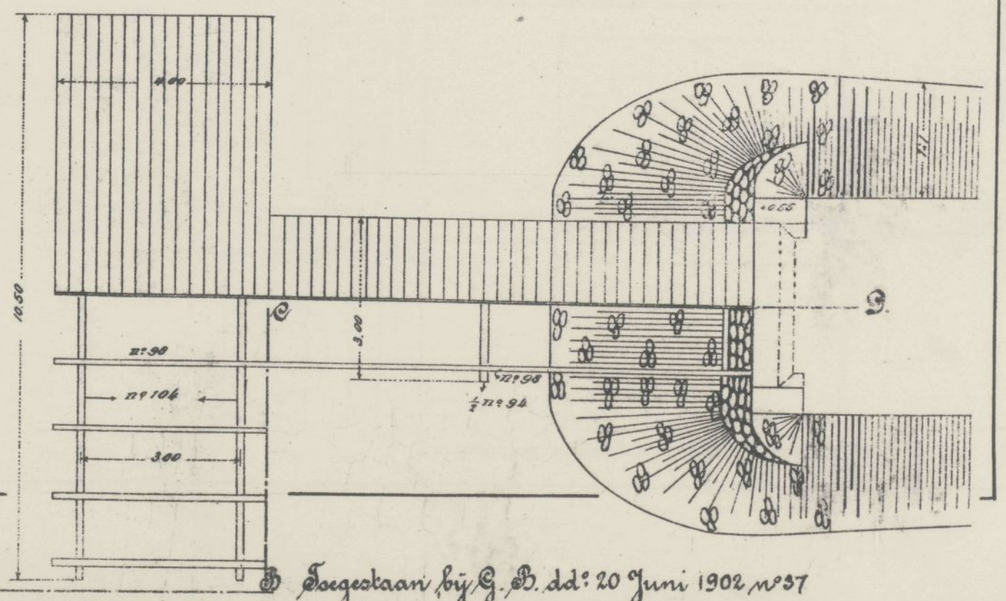
Dwarsdoorsnede



Platte-grond.
1:100.

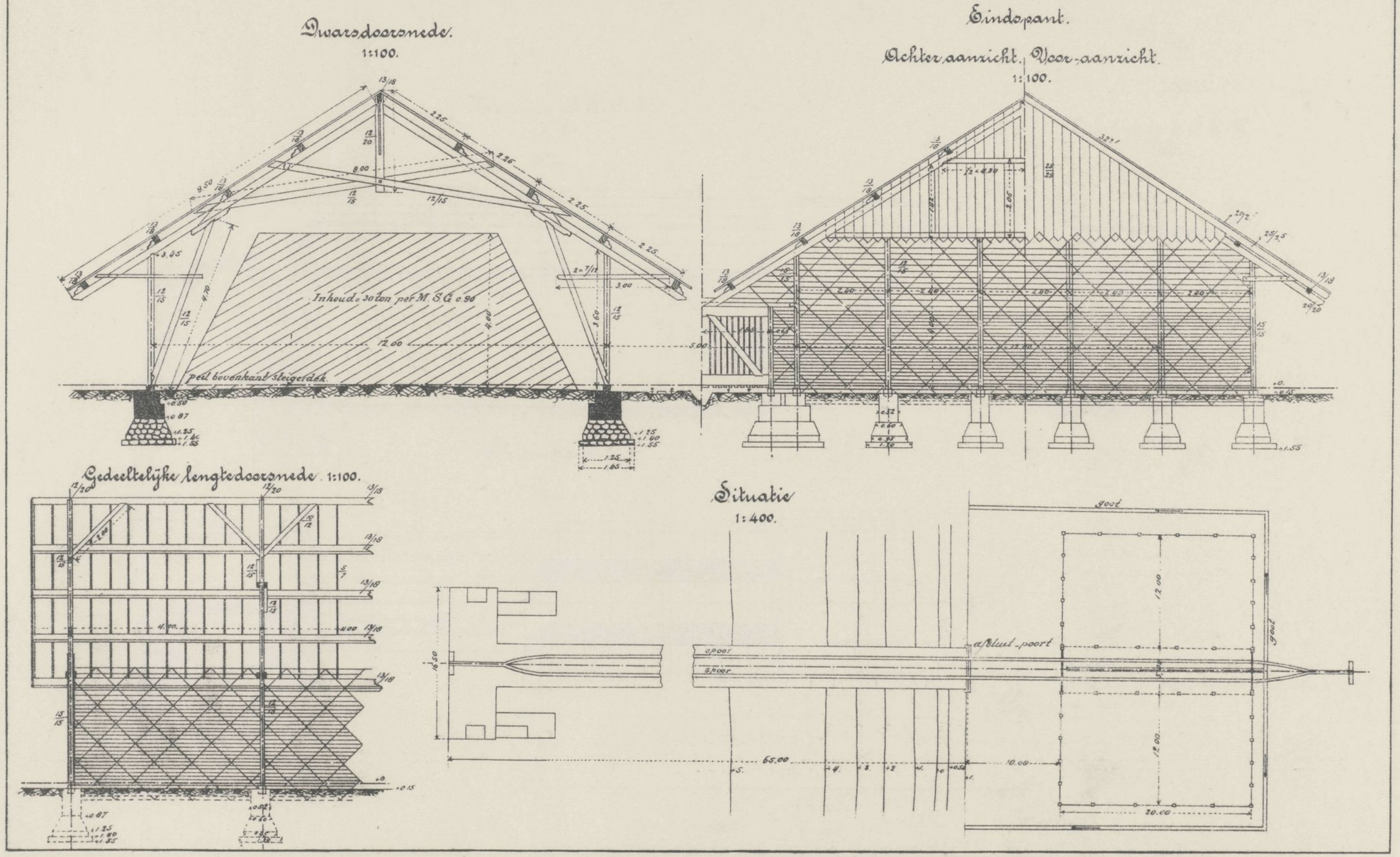


Platte-grond.
1:100.

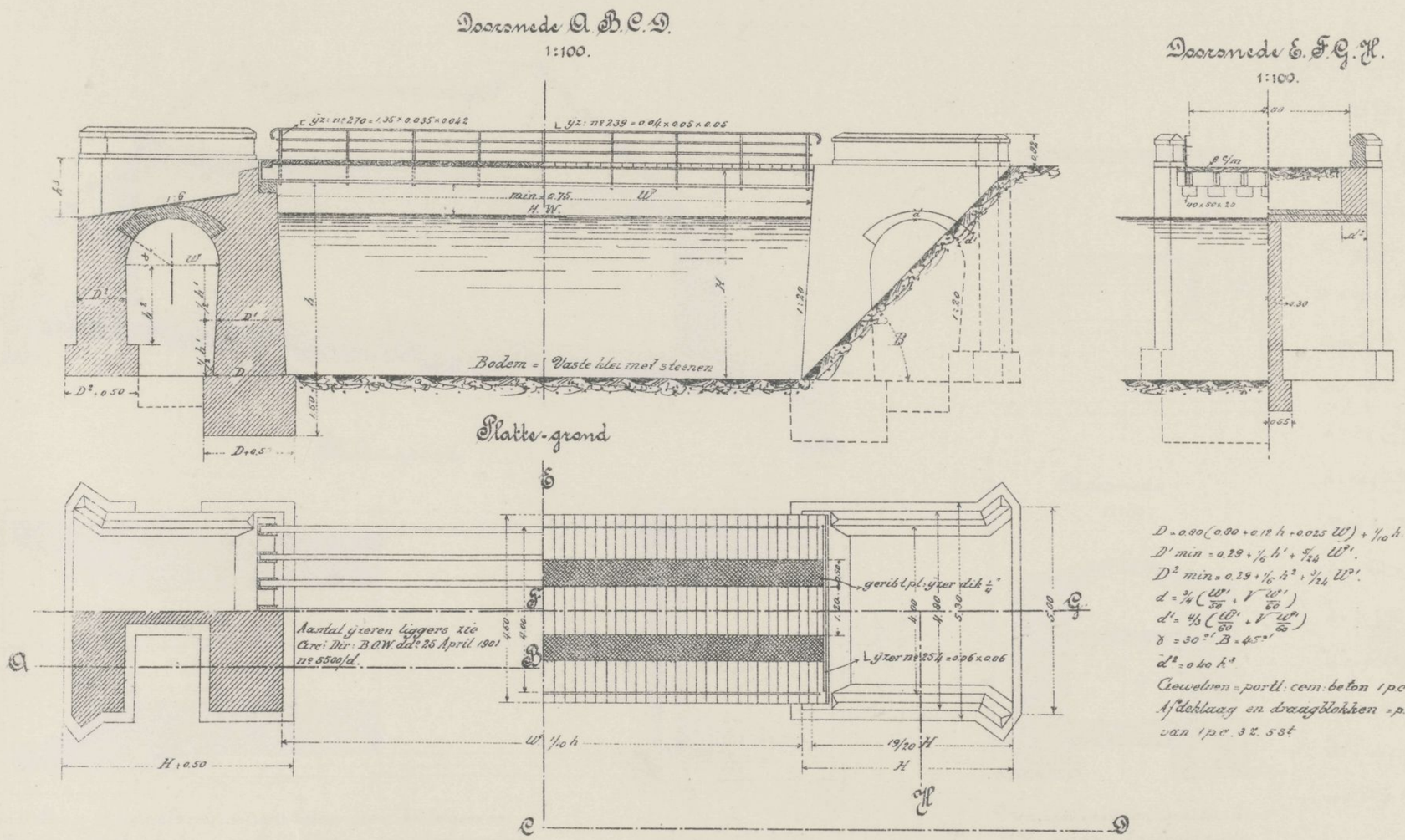


Toegestaan bij G. B. dd: 20 Juni 1902, No 37

Steenkolenloodsen te Meraukee (bergvermogen 1000 ton).

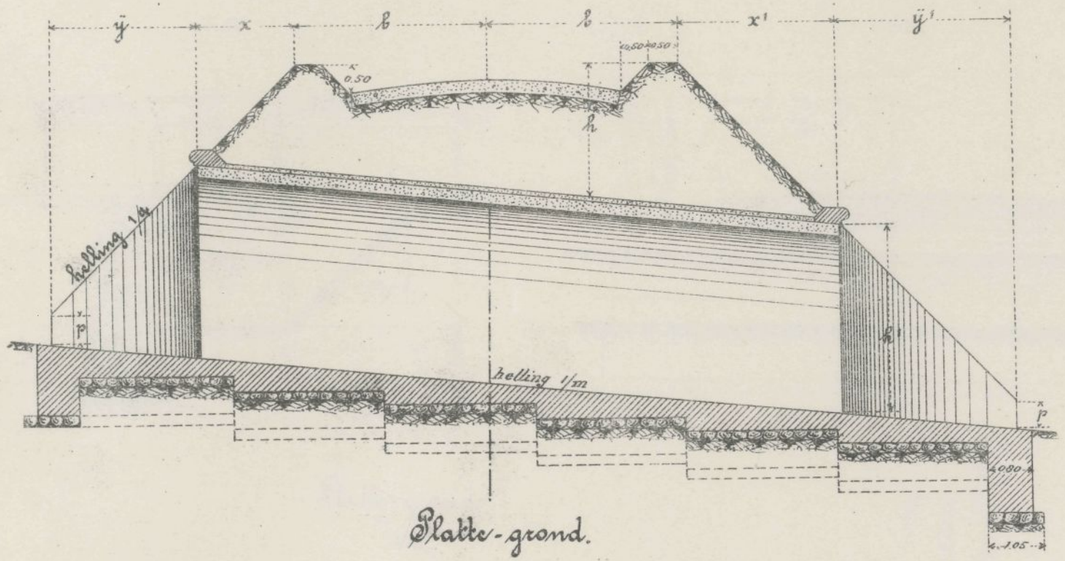


Yzeren balkbrug op blok-landhoofden.

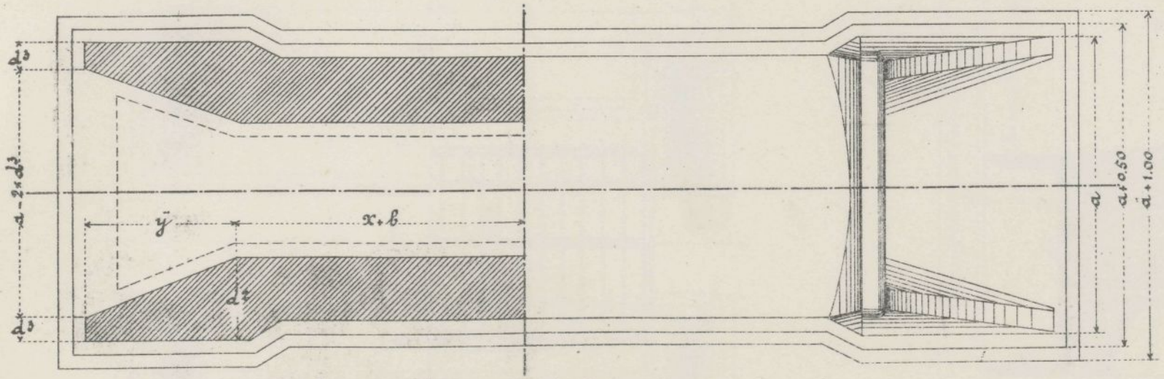


Ontwerp van een Gronddruiker.

Lengte-doorsnede
1:100.

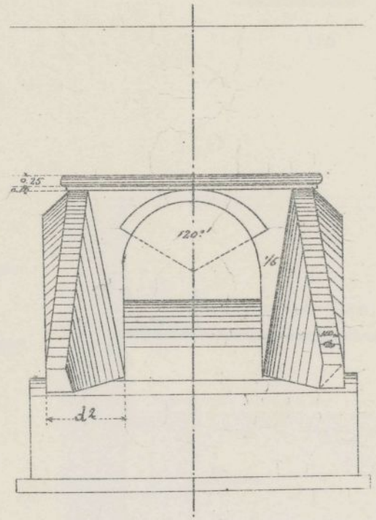


Platte-grond.

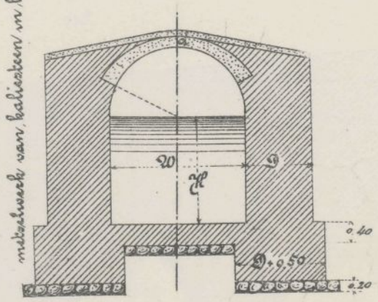


De samenstelling v/h portland cement beton voor de bogen is 1 deel portland cement 2 deelen zand en 3 deelen steenslag of grint.

Aanzicht.
1:100



Doorsnede
1:100.



metselwerk van halfsteen in kalkmortel.

Voor spanningen groeter dan 10 M worden bovenstaande formules niet meer toegepast.

$x = \frac{q(hm - b)}{m + q}$

$x_1 = \frac{q(hm + b)}{m - q}$

$y = \frac{qm(h - p)}{m + q}$

$y_1 = \frac{qm(h - p)}{m - q}$

$p = \frac{ba}{6n - 1}$

$D = 0.345 + \frac{M}{6} + \frac{5W}{24}$

Voor $h \leqq 1$ M

en $W < 4$ M word.

$d = \frac{3}{4}\left(\frac{W}{60} + \sqrt{\frac{W}{60}}\right)$ en

$d_1 = \frac{4}{3}\left(\frac{W}{60} + \sqrt{\frac{W}{60}}\right)$

Voor $h > 1$ M.

en $W > 4$ M wordt

$d = \frac{3}{4}\left(\frac{W}{\ } \quad \frac{W}{60}\right)$ en

$d_1 = \frac{3}{\ }\left(\frac{W}{60} + \sqrt{\frac{W}{60}}\right)$

$d_2 = 0.42 h_1$

$d_3 = a + \frac{p}{6}$

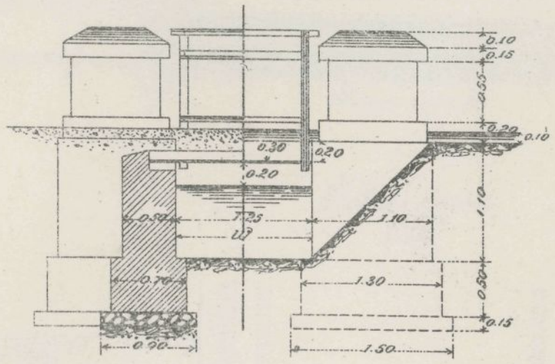
$a = W + 0.84 h_1$.

Brug bestaande uit steenen landhoofden en zoresijzeren dek zonder liggers.

Maximum spanning W=3.50 M.

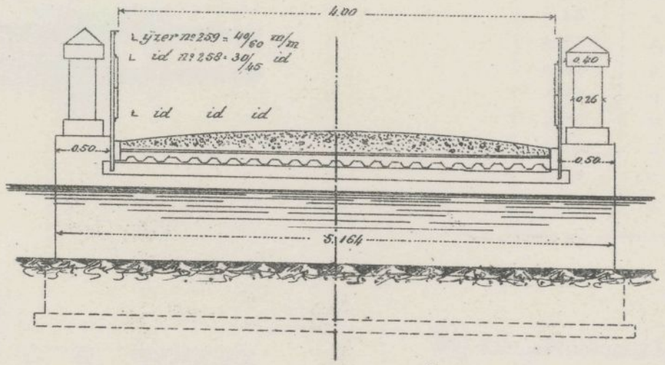
Dwarsdoorsnede en Aanzicht.

1:50.



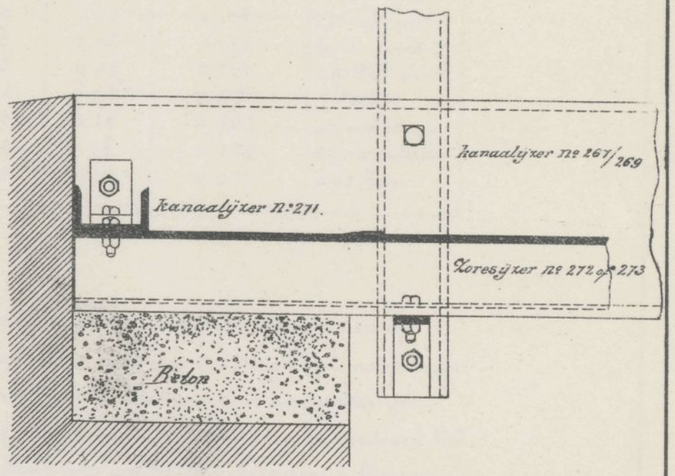
Langdoorsnede.

1:50.



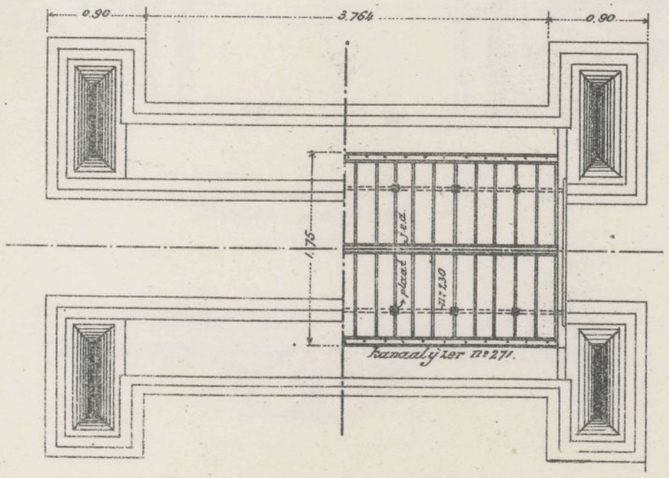
Doorsnede a.b

1:5



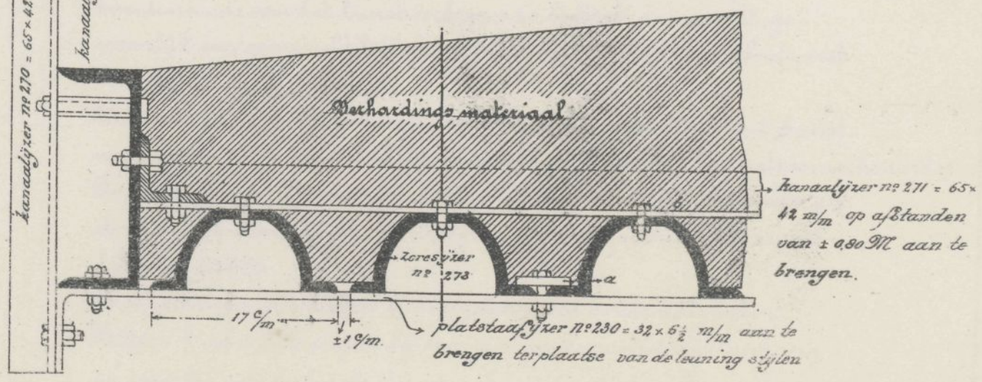
Platte-grond.

1:50.



Detail zoresijzeren dek

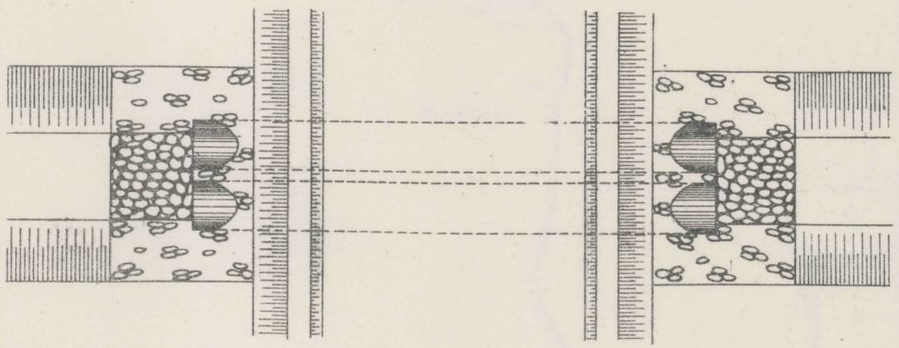
1:5



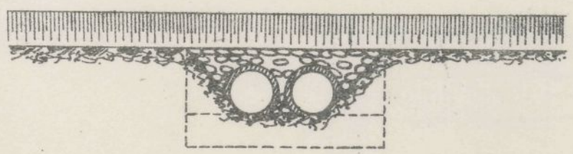
Betonbuisduikers.

Lengte-doorsnede
1:100

Platte-grond.
1:100.



Achter-aanzicht.
1:100.

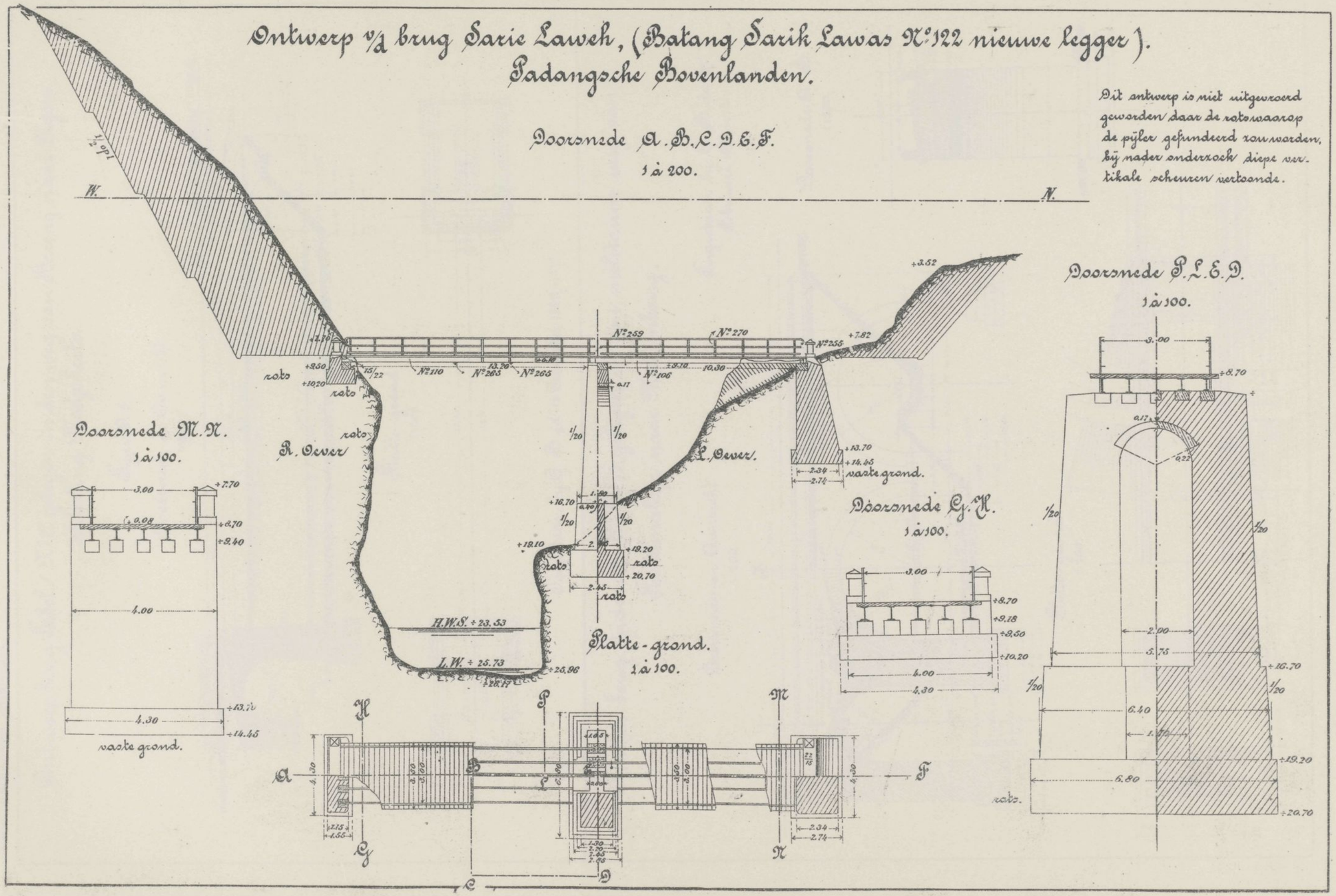


Middellijn inwendig	Doorstroomingsprofiel	Wanddikte	Inhoud v/d buiten doorsnede van de beton	Samenstelling der specie en arbeidsloon.
0.30	0.07	0.06	0.068	per M³ = 062 m³
0.40	0.13	0.06	0.087	specie of
0.45	0.16	0.07	0.114	0.79 M³ = grint
0.50	0.20	0.07	0.125	2.23 vat port-
0.60	0.28	0.08	0.171	land cement
0.70	0.38	0.09	0.223	0.53 M³ zand
0.75	0.44	0.095	0.252	6 koelies
0.80	0.50	0.10	0.283	0.3 mandoer
0.90	0.64	0.12	0.384	0.5 metselaar
1.00	0.78	0.12	0.422	0.05 baas

Bij het gebruik van twee of meer betonkokers moeten deze op een onderlingen afstand van ongeveer 0.15 M. gelegd worden opdat de tusschen liggende grond kan worden aangestampt.
Indien de grond slap of aan scheuren onderhevig is verdient het aanbeveling eene aanstamping onder de kokers aan te brengen.
Indien de doorstroomingssnelheid nu en dan zoogroot kan worden, dat voor uitschuring van den bodem der leiding aan het benedeneinde van het kunstwerk gevaar bestaat, den wordt gewoonlijk een gemetseld koffer aangebracht en bodem en taluds met steenbezettingen versterkt.
Wanneer er vrees bestaat voor onderloopsch worden van het kunstwerk, dan wordt ook een koffer aangebracht aan het bovenstroomsche einde.
De tenzondte van den weg is over de middelste 2 M. 0.03 M. en verder per ste: M. 0.06 M. De minimum ophooging boven den duiker (bij de weg dijkjes) is 0.40 M.
De afmetingen van koffers a te regelen naar omstandigheden.
Koffers b aan te brengen bij een eenigszins aanzienlijk verhang en waarbij ook de lengte der steenbezetting verlengd wordt.

Ontwerp v/d brug Sarie Lawek, (Batang Sarik Lawas N°. 122 nieuwe legger).
Padangsche Bovenlanden.

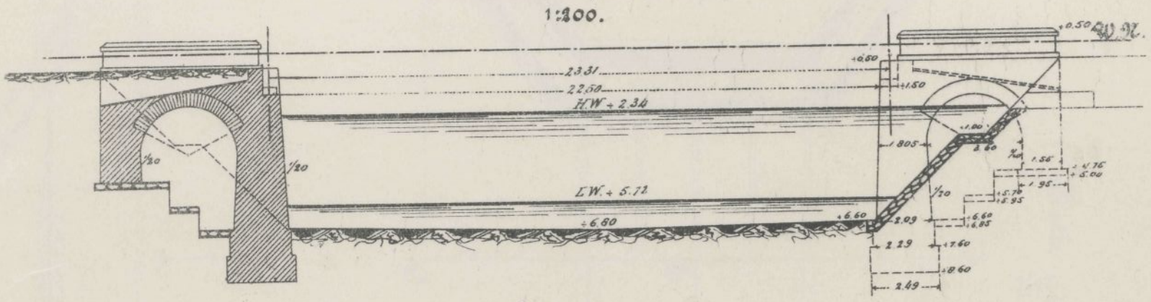
Dit ontwerp is niet uitgevoerd geworden daar de rots waarop de pijler gefundeerd zou worden, bij nader onderzoek diepe vertikale scheuren vertoonde.



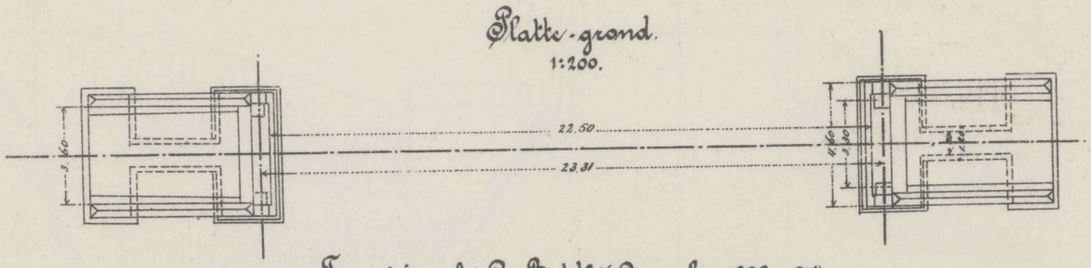
Ontwerp brug Tebel I N°. 12 gelegen in den weg van Bareng naar Ngoro afdeeling Modjokerto.

Type A 5.

Doorsnede en Aanzicht
1:200.



Platte-grond.
1:200.

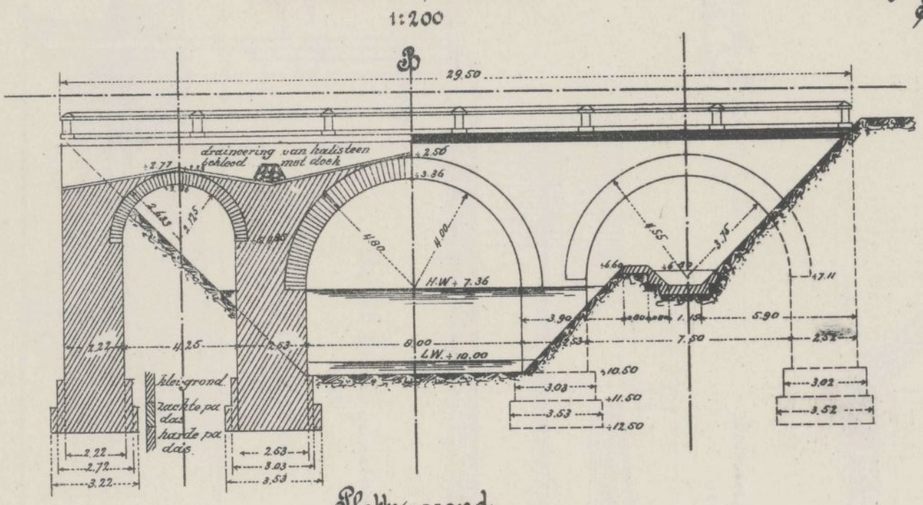


Toegestaan bij G. B. dd. 16 December 1902, n°. 71.

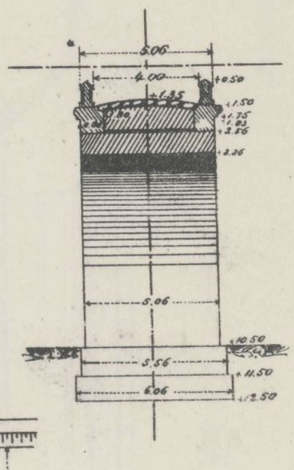
Ontwerp brug Tjideres II B^k. N°. 73 gelegen in den militairen weg van Tasikmalaja naar Malambong.

Doorsnede en Aanzicht
1:200

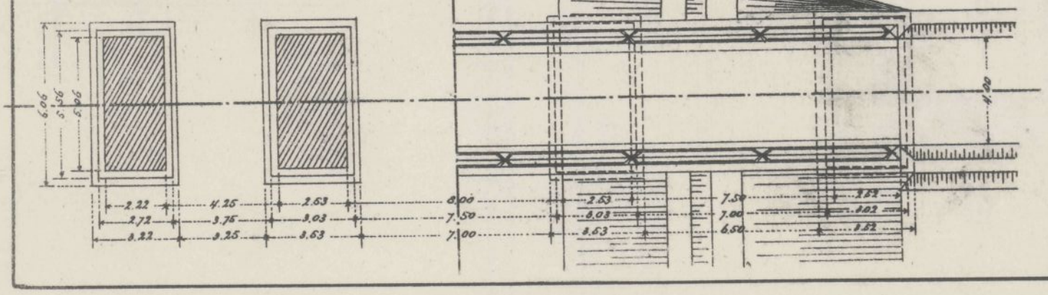
Toegestaan bij G. B. dd. 27 Februari 1893, n°. 21.



Doorsnede A. B.
1:200.



Platte-grond.
1:200.



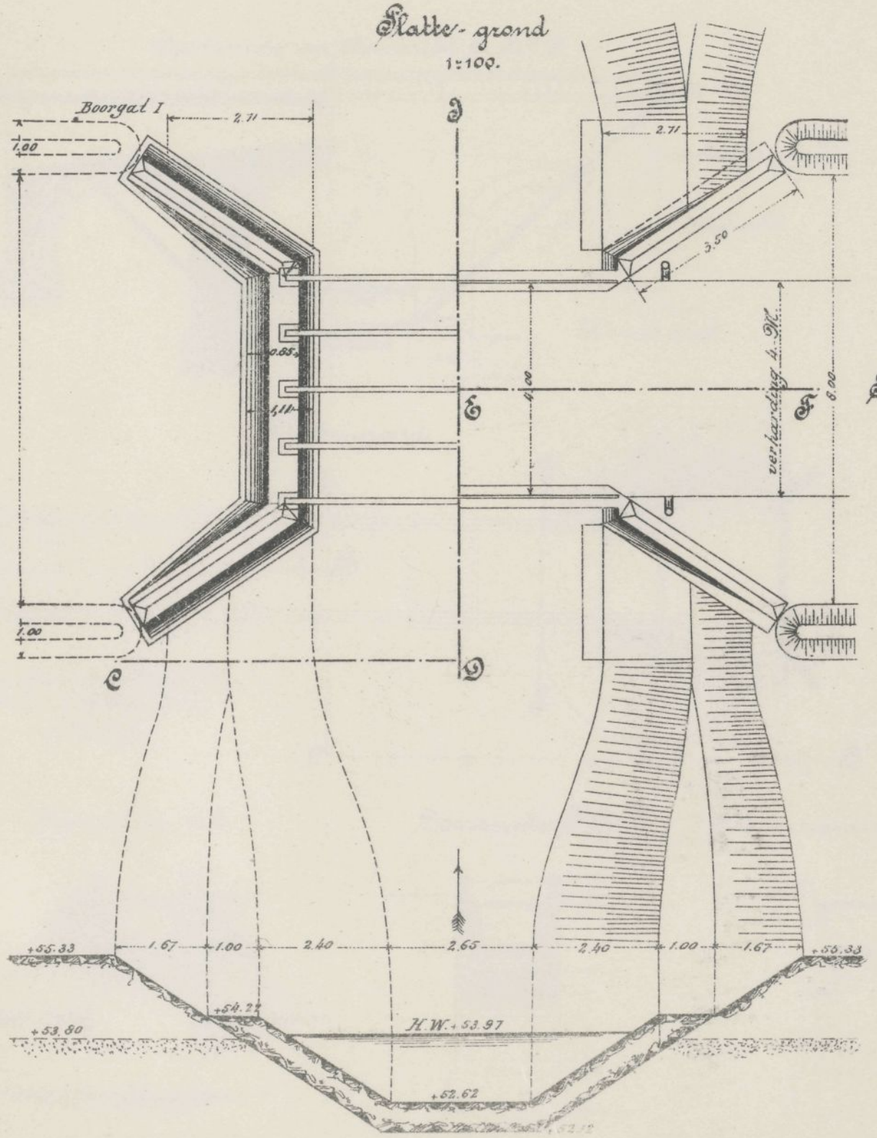
Irrigatiewerken Waroedjajeng-Kertosono.

Betonbrug bij Km: 0+351.

Kunstwerk n°. 26.

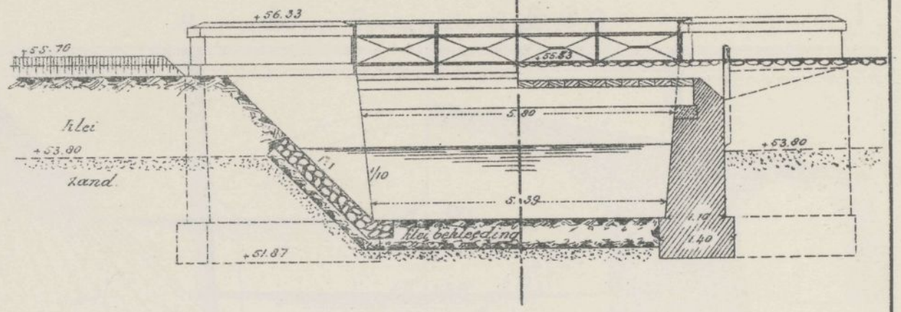
Platte-grond

1:100.



Doorsnede C.D.E.F.

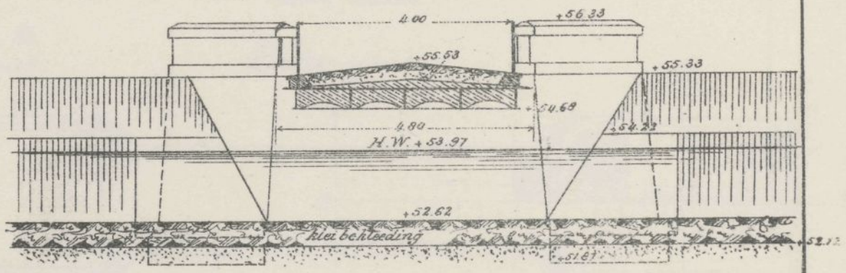
1:100.



Vorgestaan bij G.S. dd: 21 Juli 1904 n°. 6.

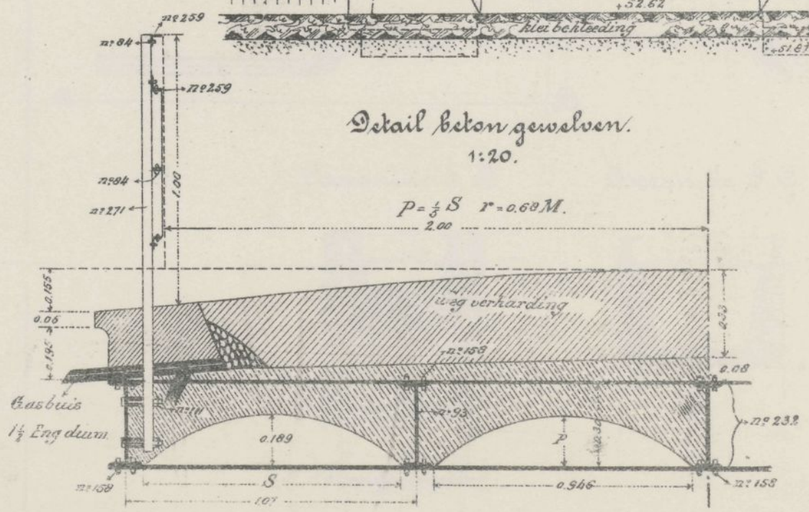
Doorsnede D.J.

1:100.



Detail beton gewelven.

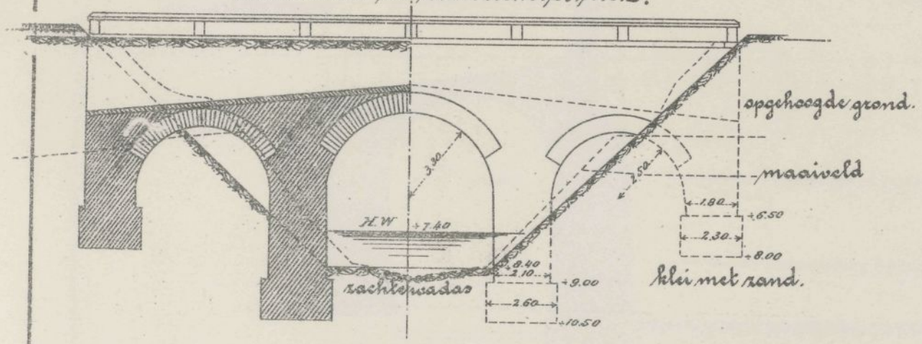
1:20.



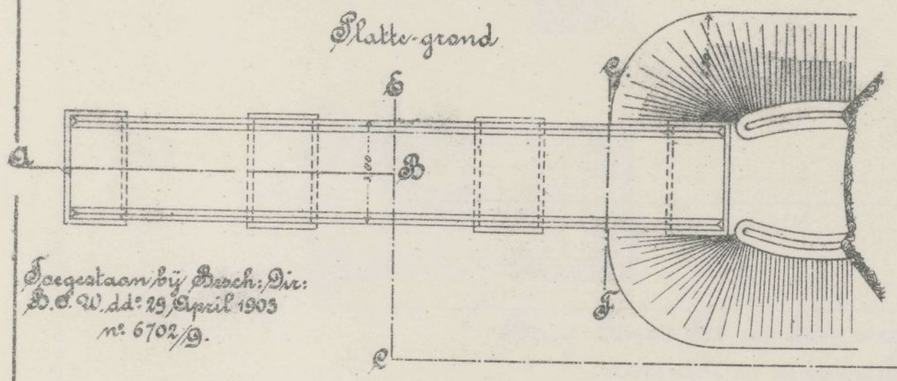
Steenen boogbrug Oedal Tabelan.

1 à 200.

Doorsnede en Aanzicht A.B.C.D.

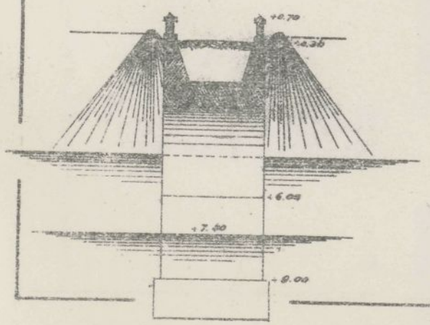


Platte-grond

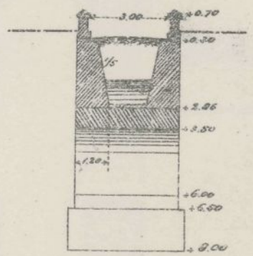


Toegestaan bij Bezch: Dir: B.O.W. dd: 29 April 1903 nr: 6702/D.

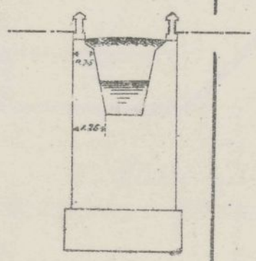
Doorsnede C.E.



Doorsnede F.G.



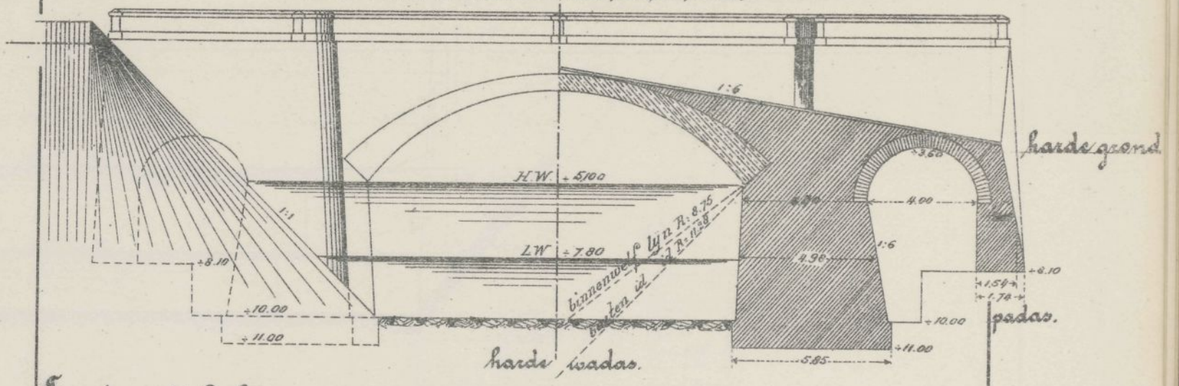
Achter aanzicht.



Steenen boogbrug Boering nr: 1 over de Kaliamprong gelegen in den weg van Kedoengkandang via Sempalwadak naar Boeloekerto.

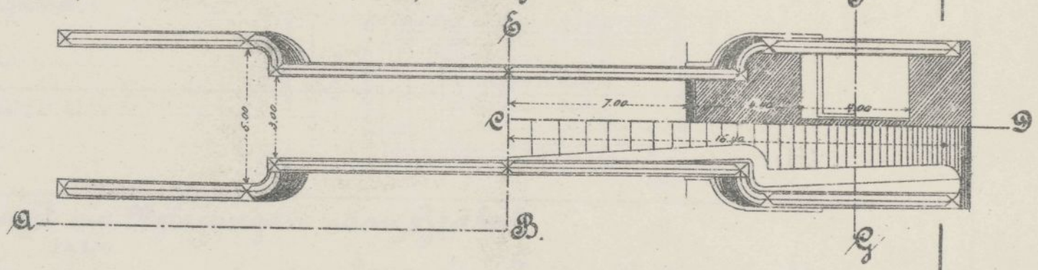
1 à 200.

Aanzicht en Doorsnede A.B.C.D.

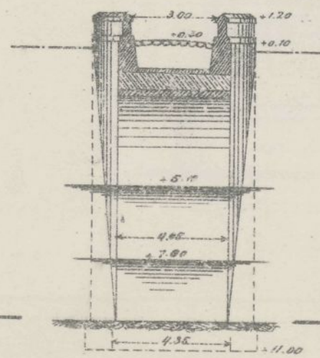


Toegestaan bij G.B. dd: 17 April 1900 nr: 5.

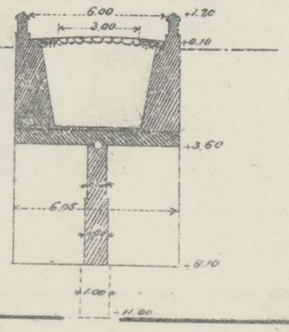
Platte-grond.



Doorsnede E.B.

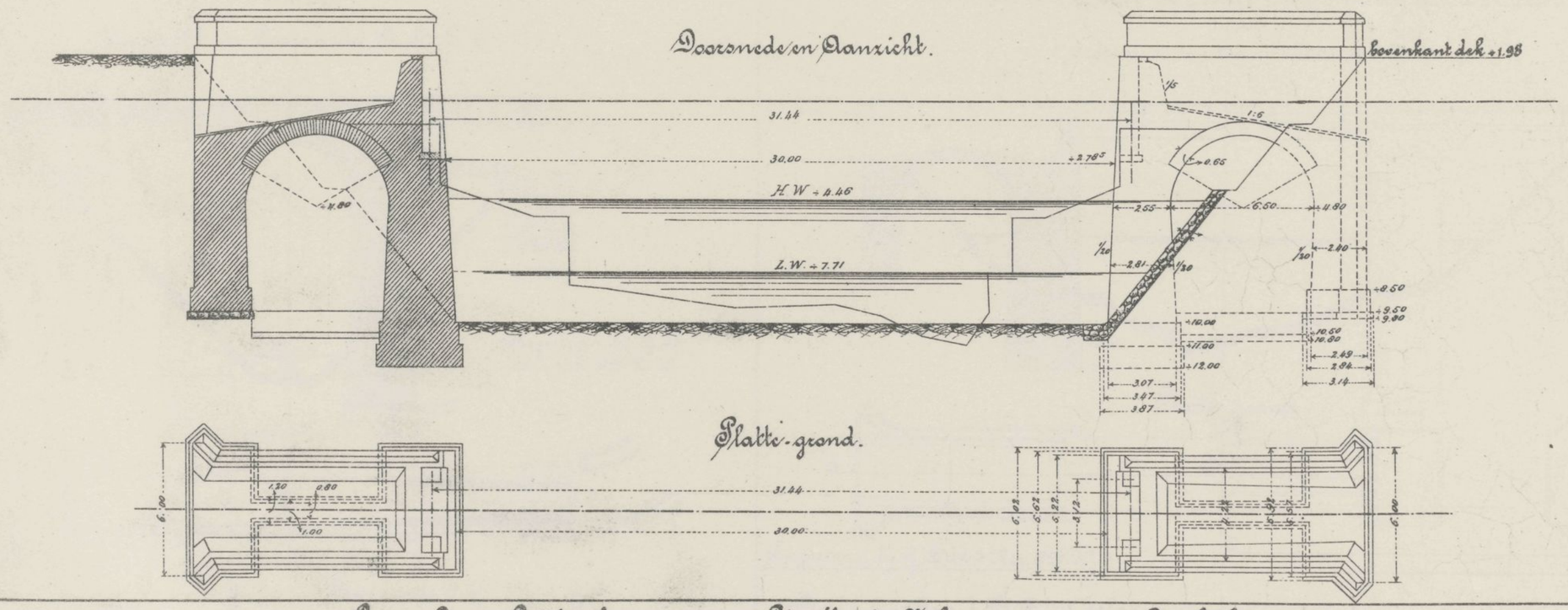


Doorsnede F.G.



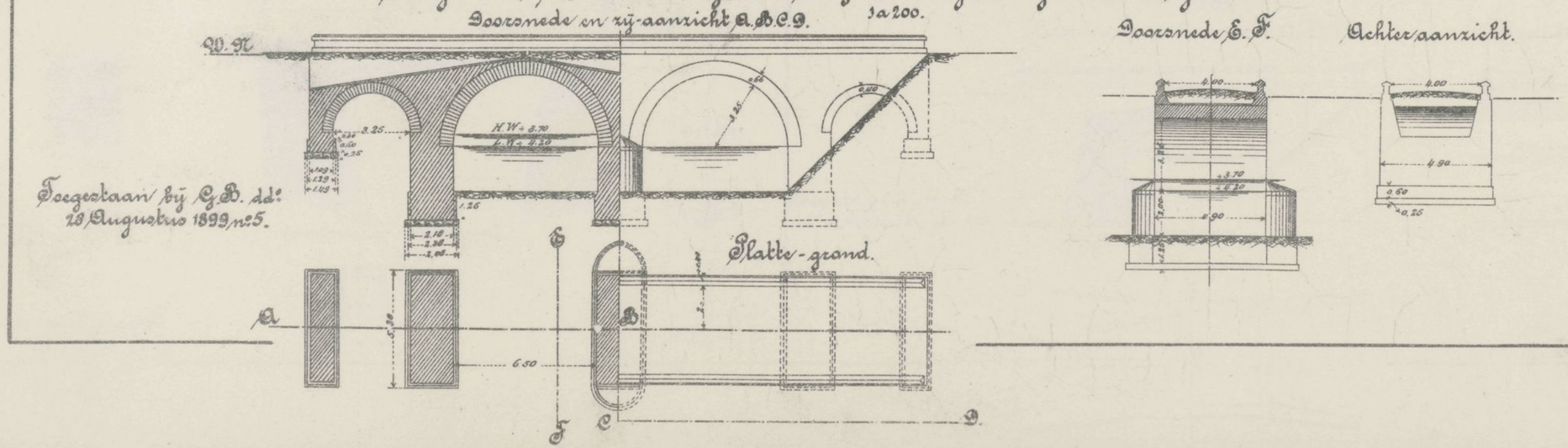
Brug Tjitjatih II B.a 27 in den militairen weg van Soekaboemi naar Buitenzorg.

schaal 1:200.



Brug Daroe B5 in den weg van Pingit via Nglarangan naar Grabak.

schaal 1:200.

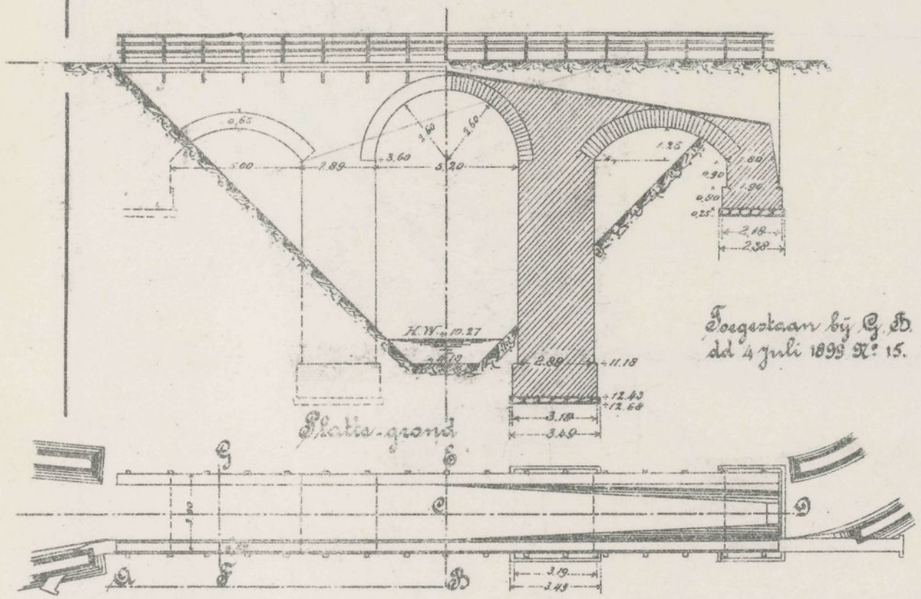


Toegestaan bij G.B. dd: 28 Augustus 1899, n:5.

Project brug Tidaran B17 in den weg van Magelang over Poetjang naar Kajoe-poering.

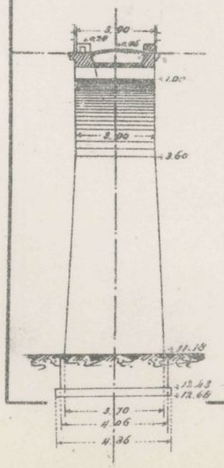
1:200.

Aanzicht en Doorsnede A. B. C. D.



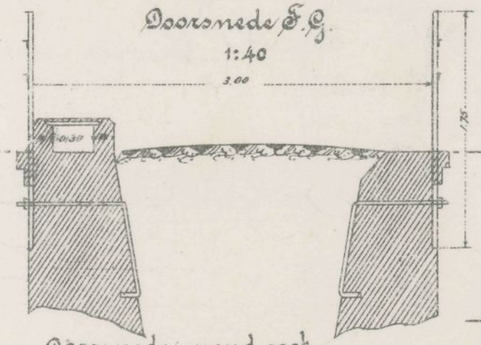
Toegestaan bij G. B. dd 4 Juli 1899 N: 15.

Doorsnede B. E.



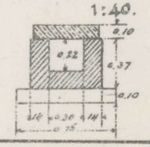
Doorsnede F. G.

1:40

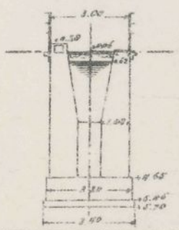


Doorsnede mond goot.

1:40.



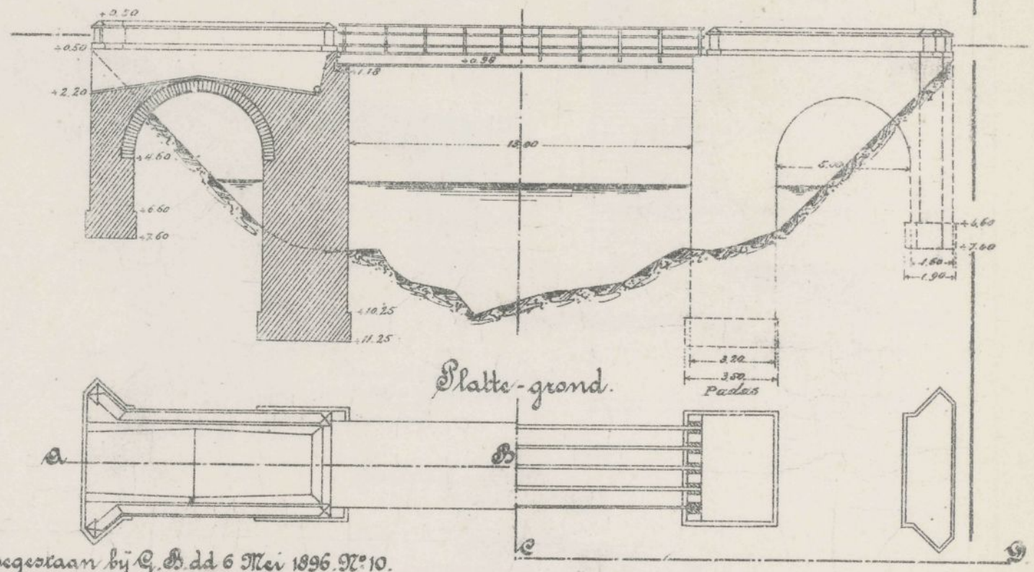
Achter aanzicht.



Steenen brug over de Kalie Progo nabij dessa Pestan.

1:200.

Doorsnede en Aanzicht A. B. C. D.

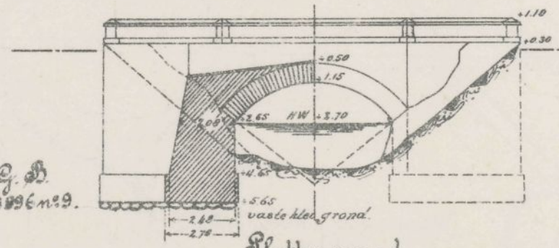


Toegestaan bij G. B. dd 6 Mei 1896. N: 10.

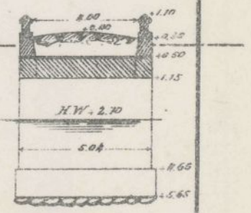
Brug Grabag 1 B. N: 10 gelegen in den weg Grabag naar Nglarangan.

1:200.

Doorsnede en Aanzicht A. B. C. D.

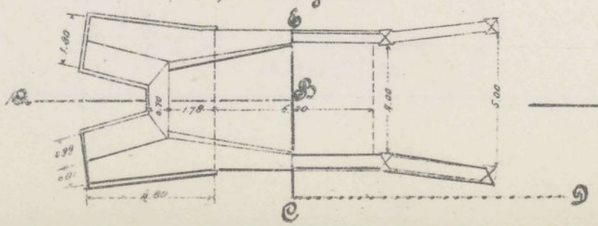


Doorsnede E. C.

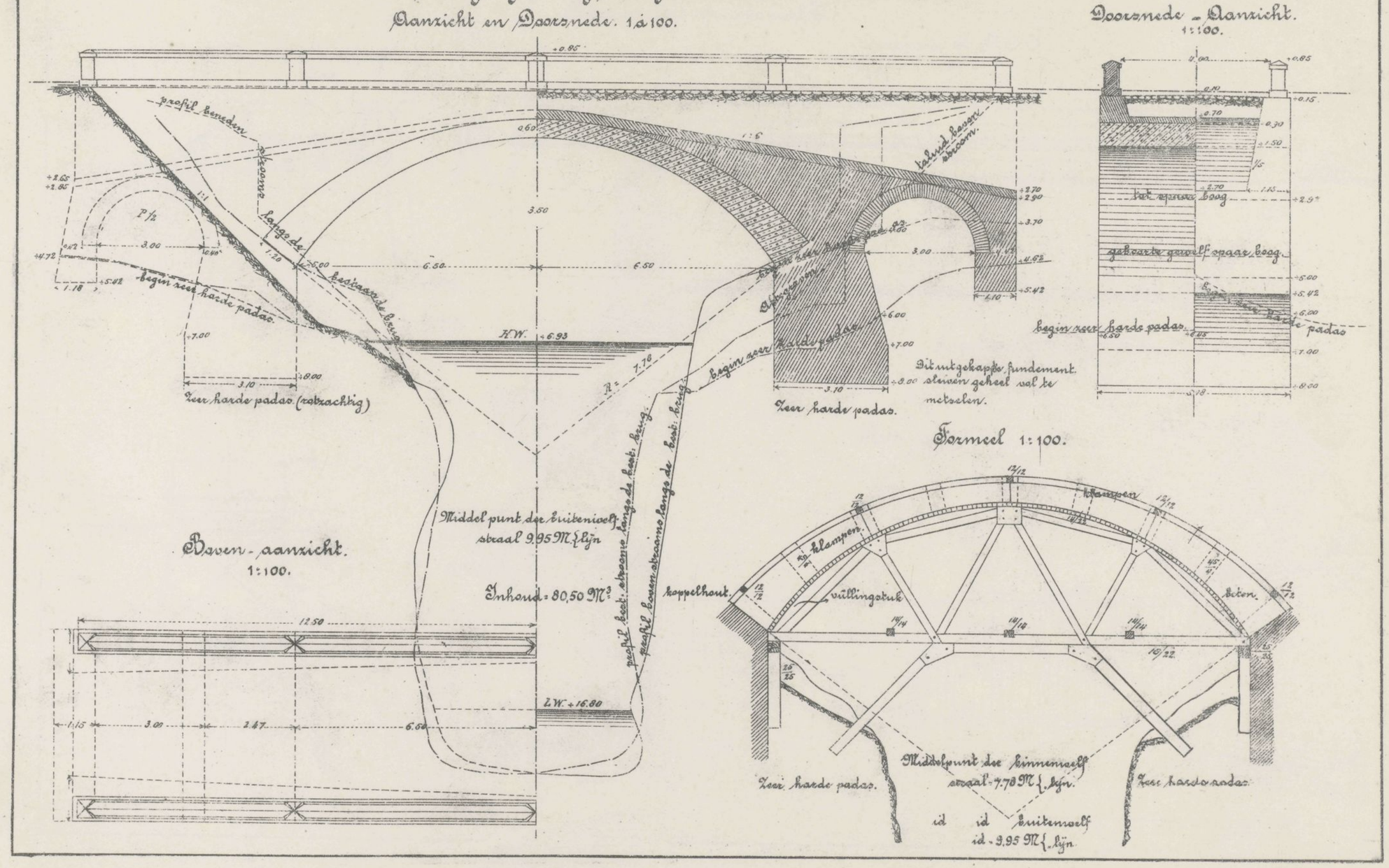


Toegestaan bij G. B. dd 4 Februari 1896 n: 9.

Platte-grond.



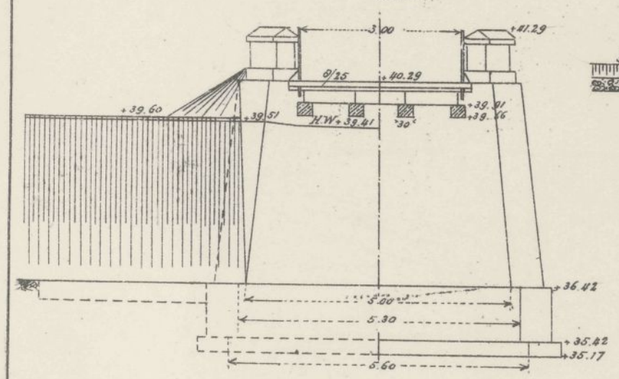
Brug Djoerangpëtëng N°. 473 Residentie Madioen.



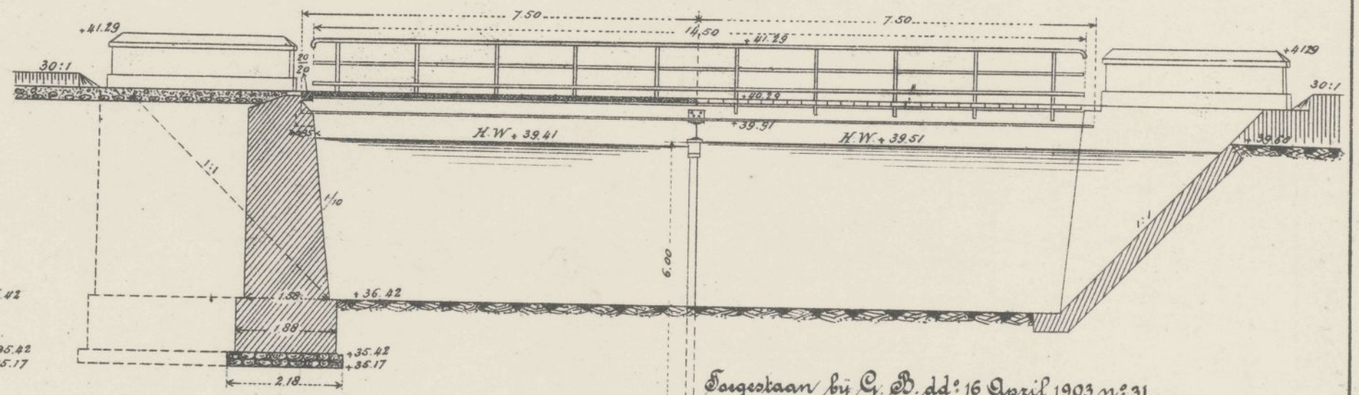
Irrigatiewerken Waroedjajeng-Kertosono.

Brug over het afvoerkanaal A1.

Aanzicht landhoofd
1:100.

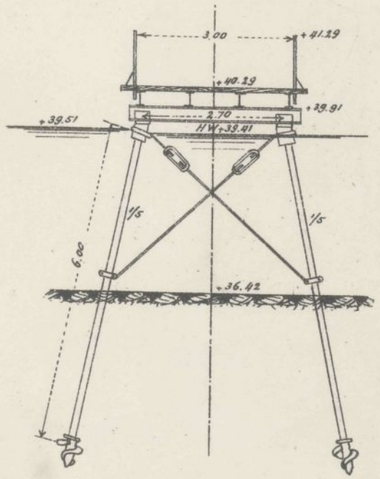


Doorsnede A. B. C. D.
1:100

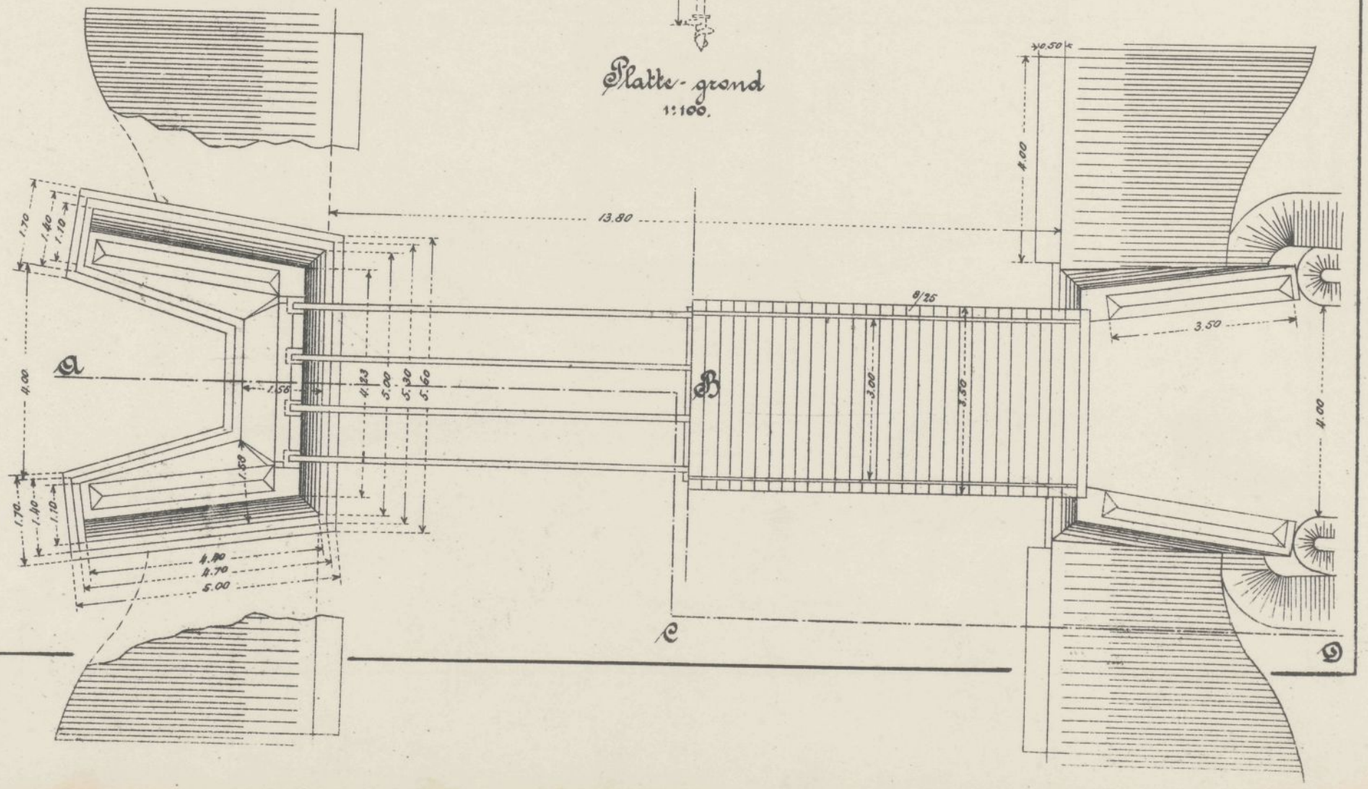


Toegestaan bij G. B. dd: 16 April 1903 n°. 31.

Stroomjuk. 1:100.



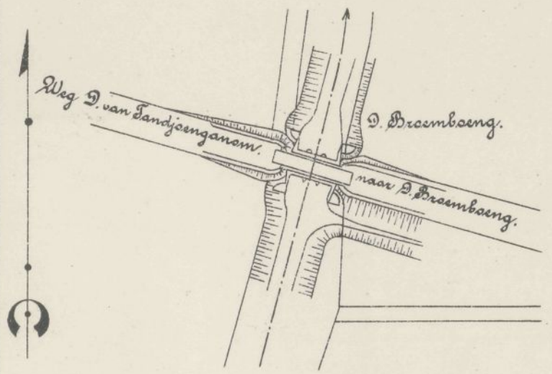
Platte-grond
1:100.



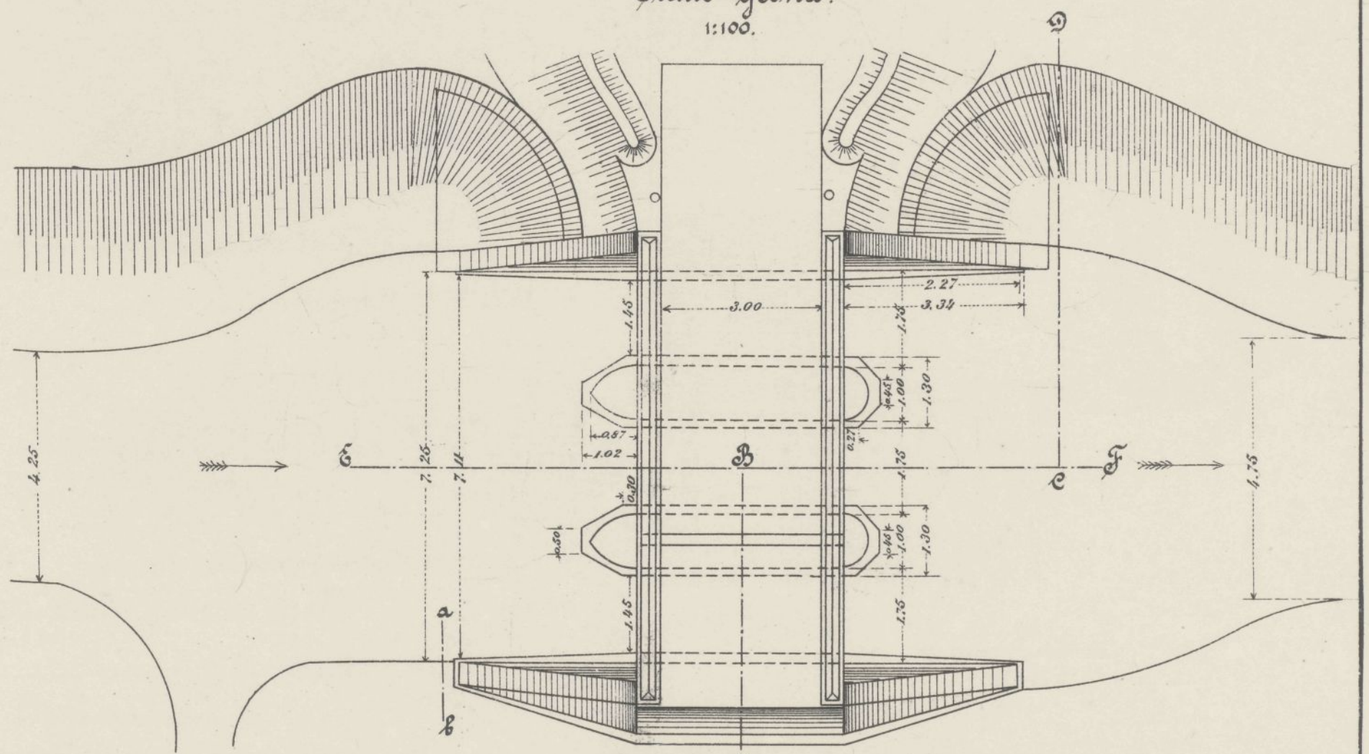
Steenen duiker in den weg D bij Km: 6+265.

Irrigatiewerken Waroedjajeng-Kertosono.

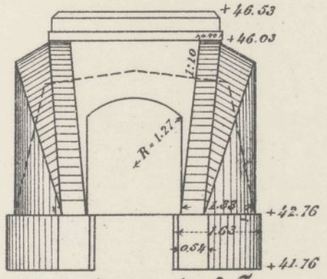
Situatie
1:1000.



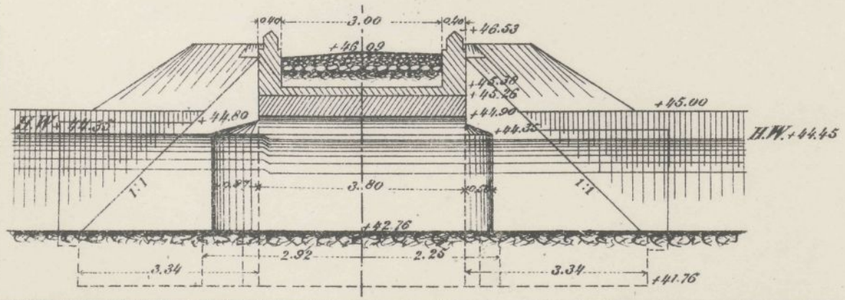
Platte-grond.
1:100.



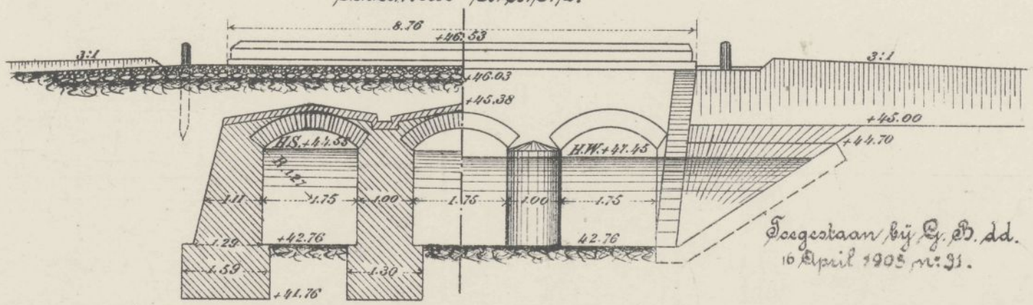
Aanzicht. a. b.



Dwarsdoorsnede. E.F

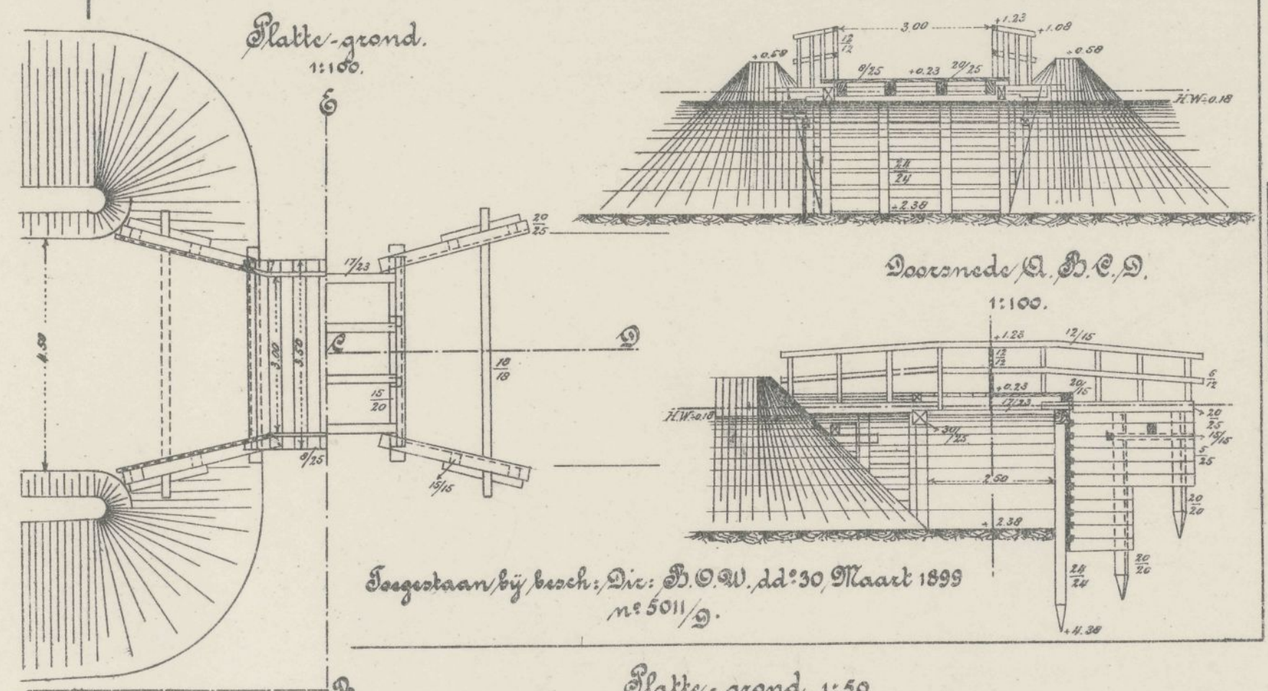


Doorsnede a. b. c. d.

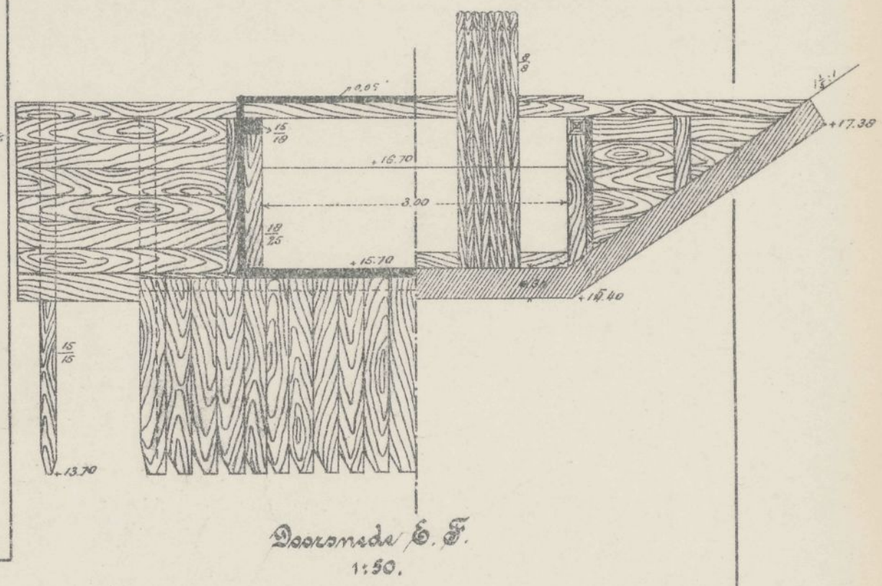


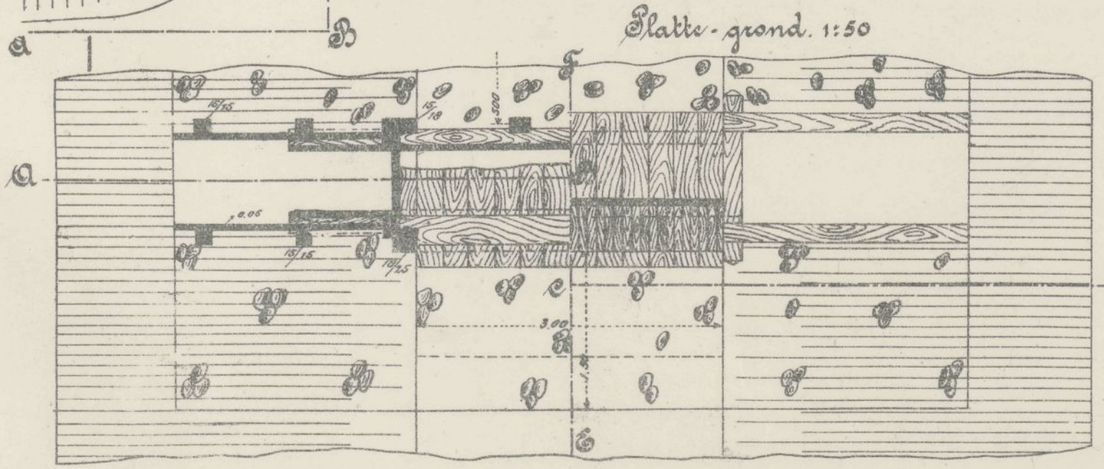
Toegestaan bij G. B. dd.
10 April 1905 n: 31.

Brug Rajoongwetan N°8 afdeeling Grissee.

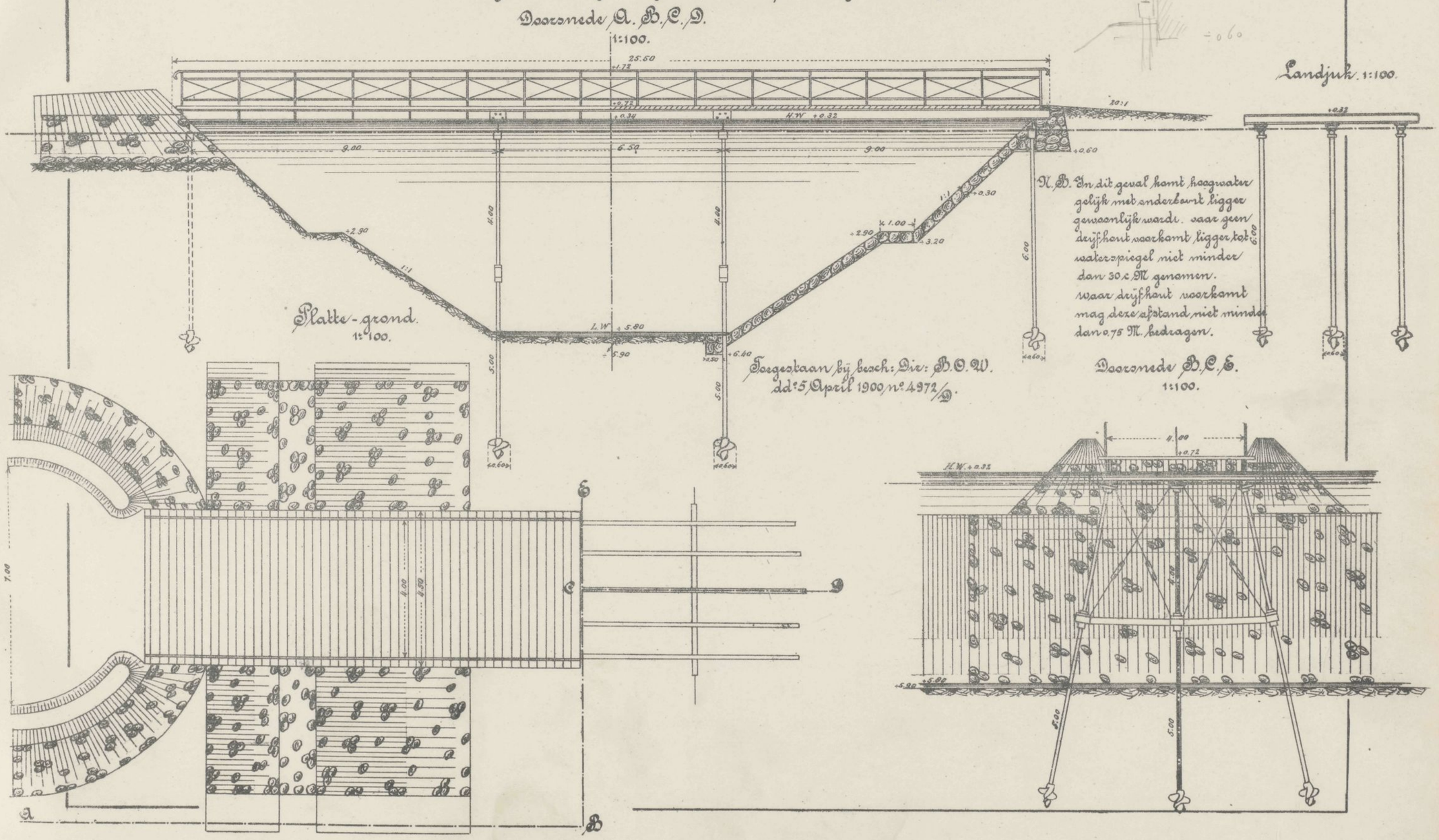


Waterwerken in oost-Semarang
Verdeelwerk in de Tambakseloleiding.

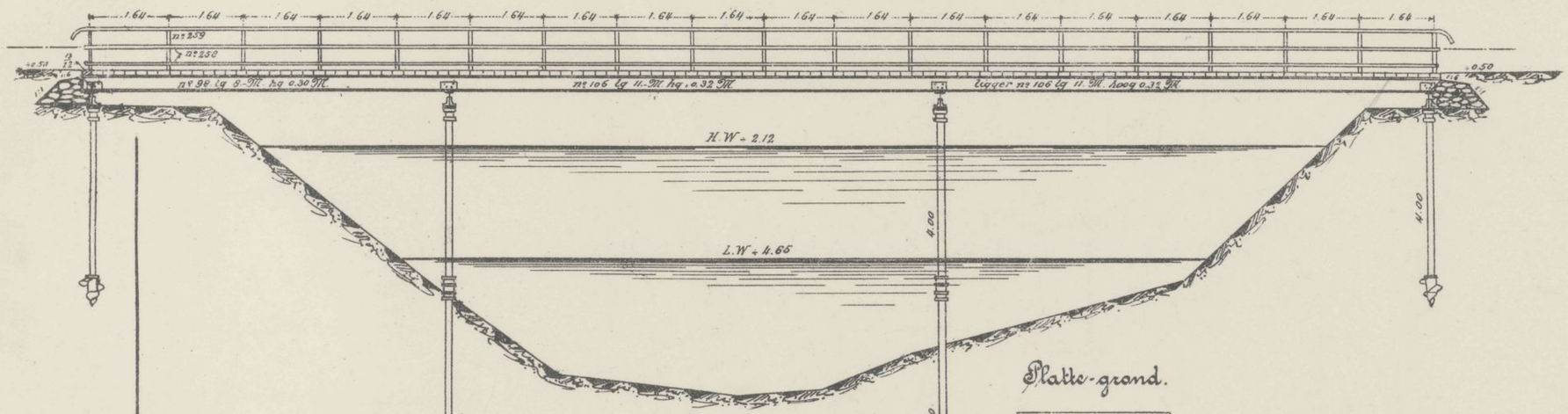


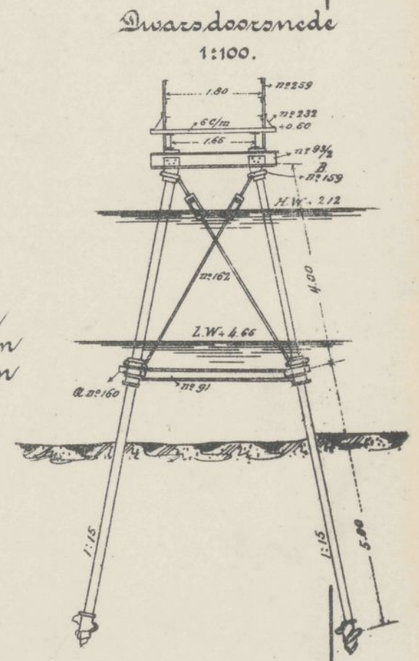


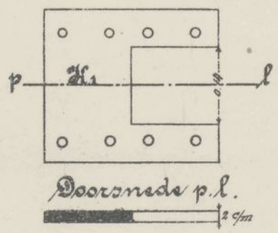
Brug Kedoengpring III N°: 38 afdeeling Lamongan.



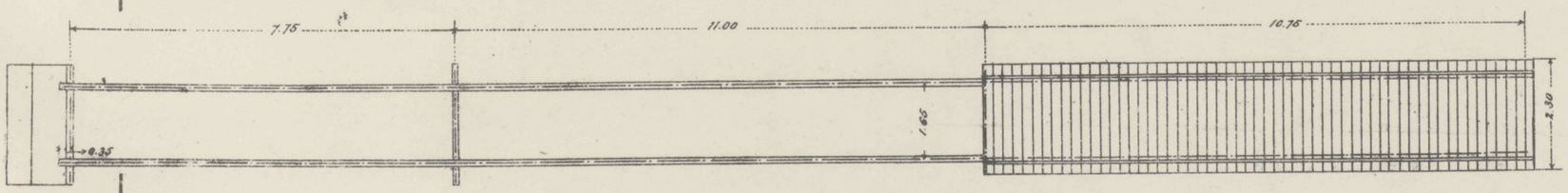
Ontwerp tot het bouwen van de brug Tjimoentoer kilir N°: 3465 in den heerendienstweg van Kawali via Radjadesa naar Rantjah.





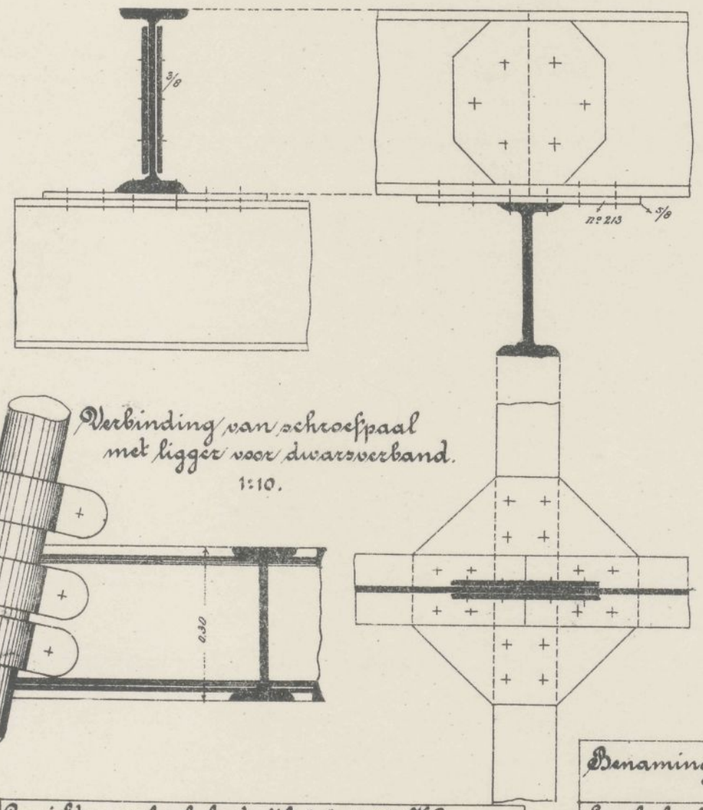


Vulplaat K1 te maken van een draagplaat N°: 153 en te plaatsen op de draagplaat K2 tusschen liggers en zloof S.

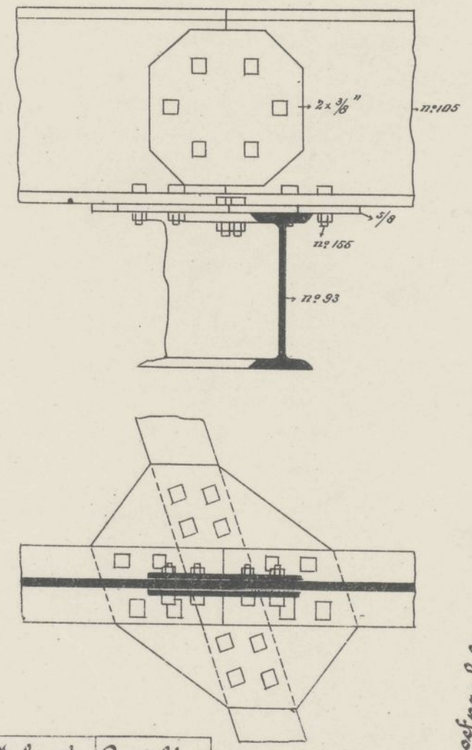


Benoodigdheden voor schroefpaaljukken.

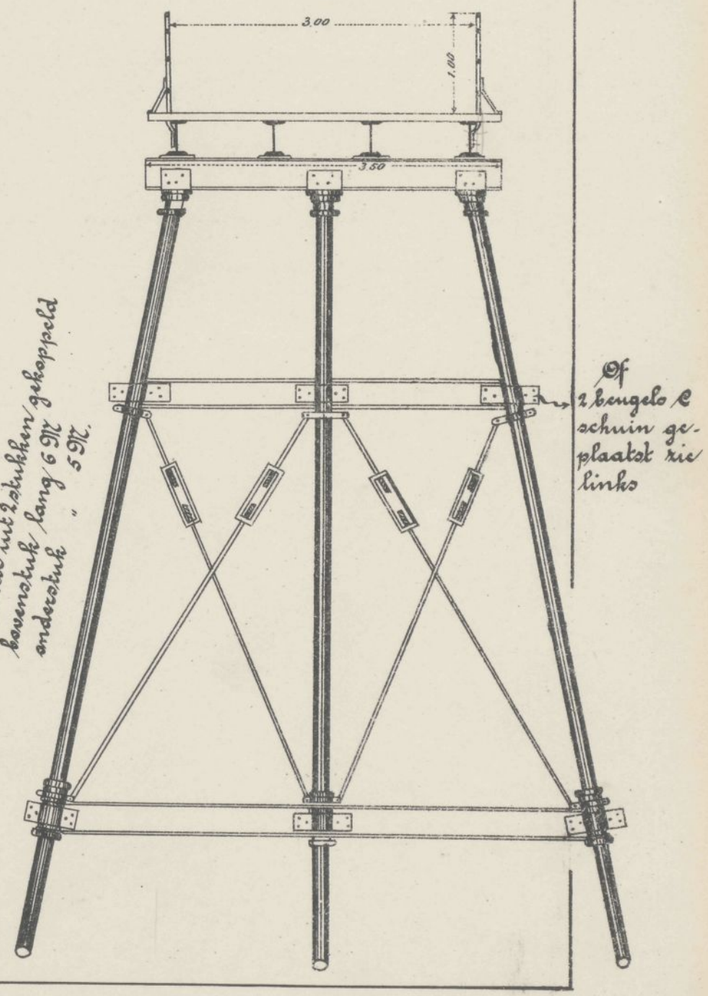
Gewijzigde verbinding van brug liggers op sloven 1:10.



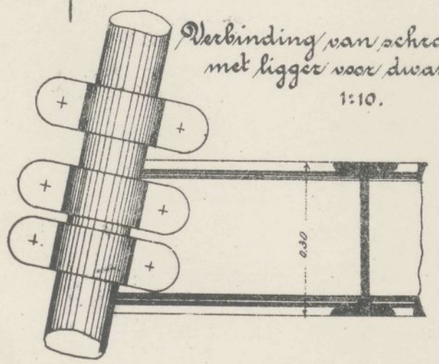
Verbinding van sloof en hoogte ligger bij scheve bruggen.
1:10.



Schroefpaaljuk voor groote hoogte
Doorsnede
1:50.



Verbinding van schroefpaal met ligger voor dwarsverband.
1:10.

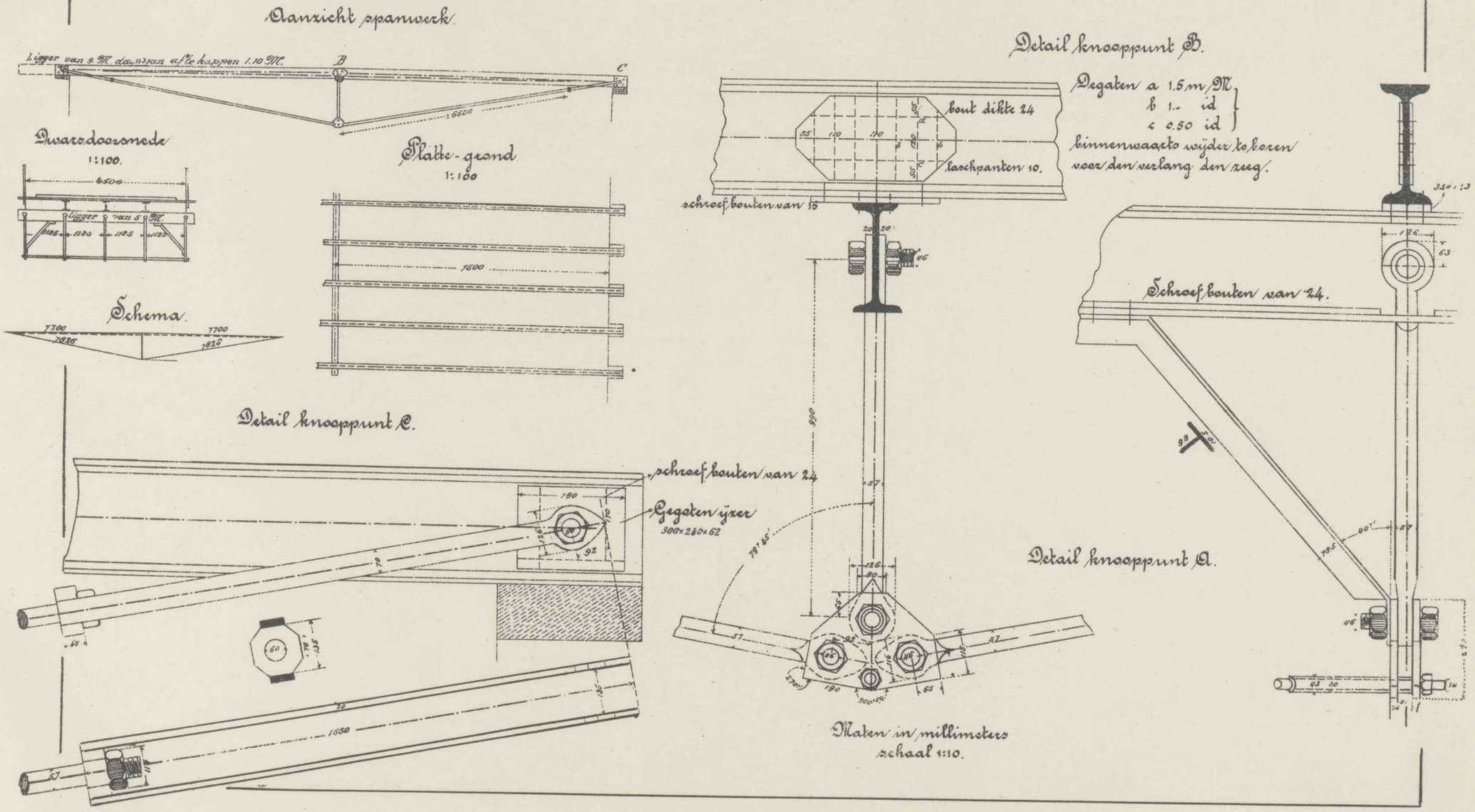


Schroefpaal bestaande uit 2 stukken gekoppeld
bovenstuk lang 6 M
onderstuk " 5 M.

Gewicht van 1 laschplaat dik 3/8" = 5.49 KG.
" " draagplaat " 5/8" = 18.05 "
Per laschplaat 6 schroefbouten B. n° 213
" draagplaat 16 id B. n° 213.

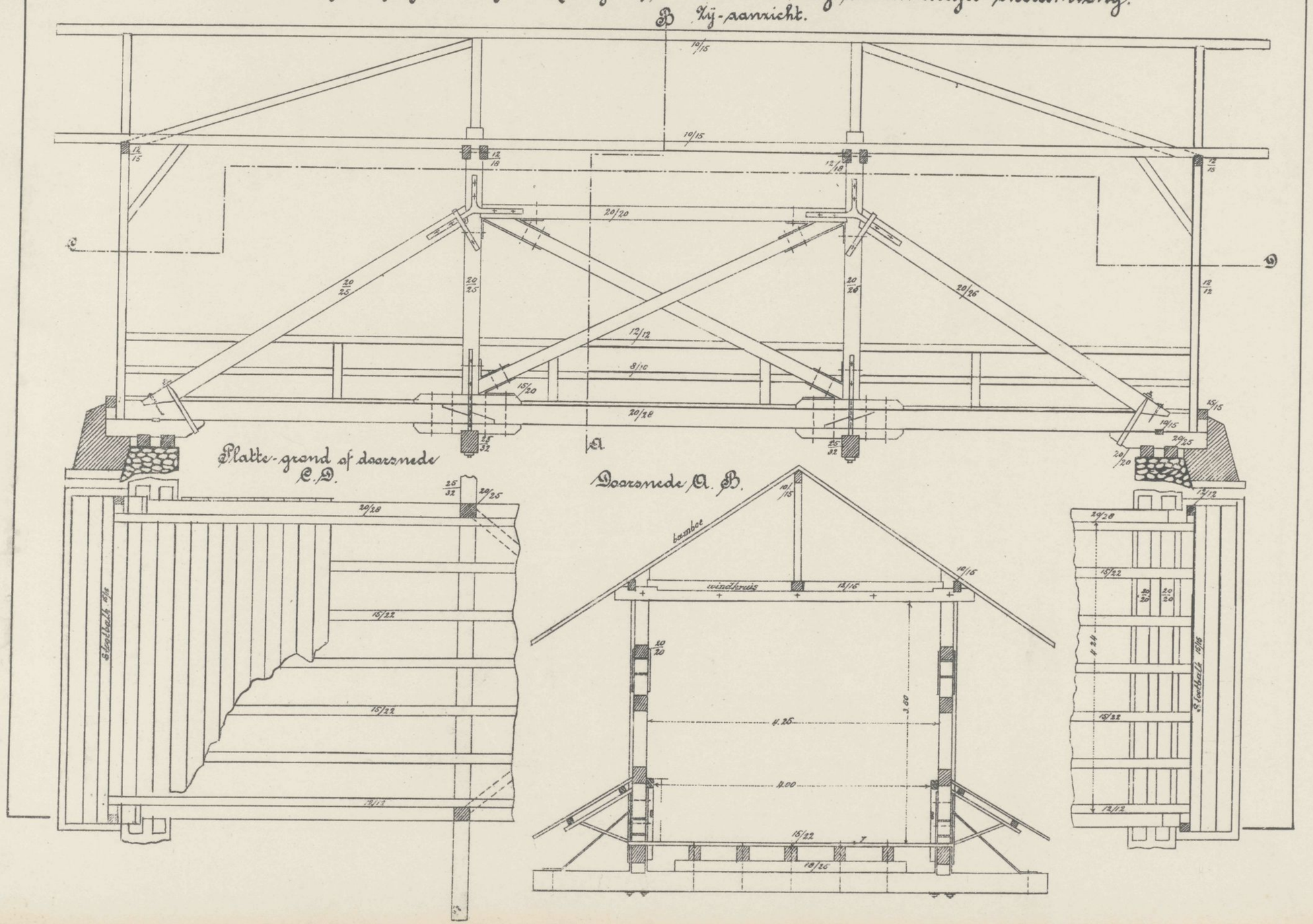
Benaming	Inhoud in dm³	Gewicht in KG.
Laschplaat	0.858	6.69
Draagplaat	2.8575	22.26
Vullingstuk 1"	1.550	11.24
" 5/8"	0.968	7.02

Brug met gewapende ijzeren liggers van 15 Meter spanning.



Plaat N.° 68.

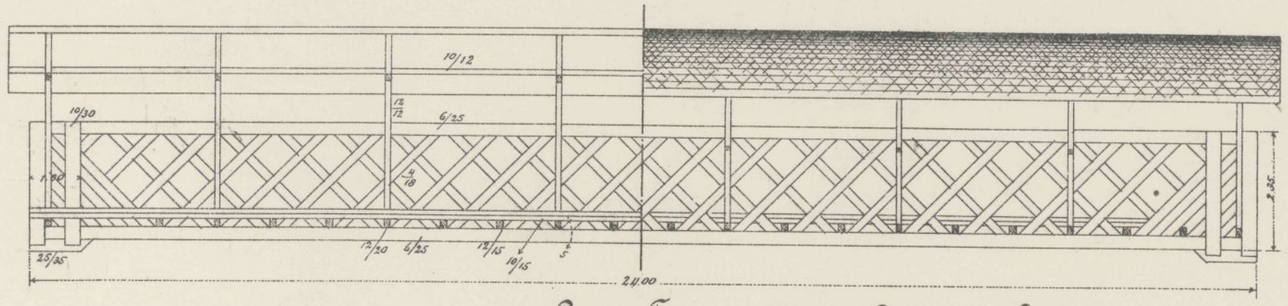
Herstelling brug Tjikidang-ilir (tengah) B.k. 26 in den weg Tasikmalaja-Melambong.



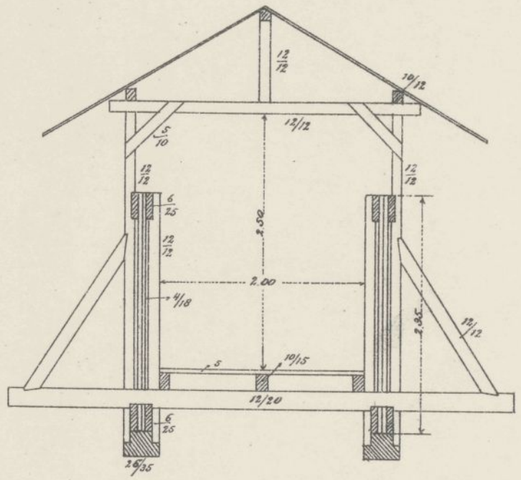
Tralie bruggen.

Brug van 24 Meter lengte.

Doorsnede en aanzicht.
1:100.

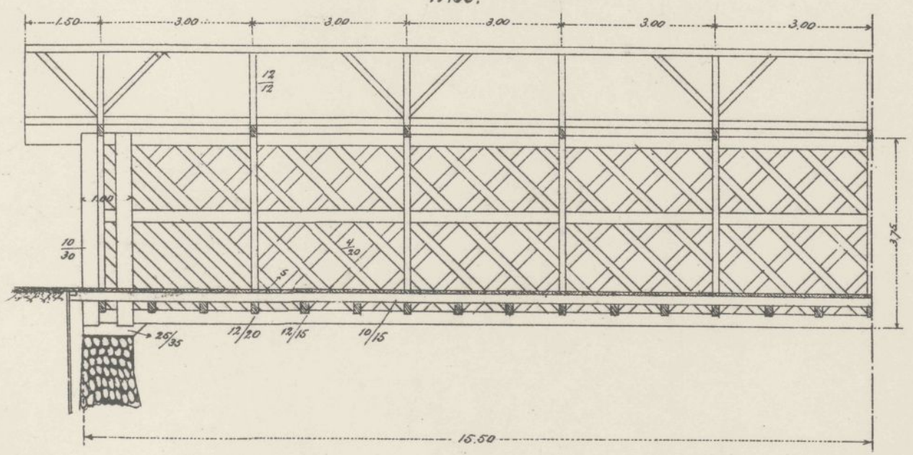


Dwarsdoorsnede.
1:100.

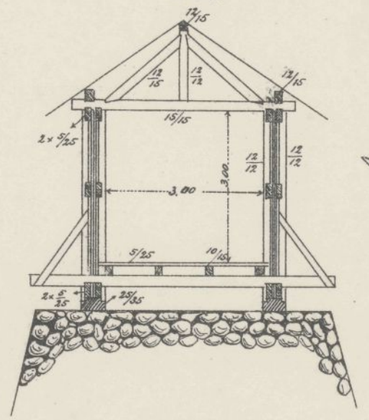


Brug Tjibama N°: 3690 Residentie Bantam.

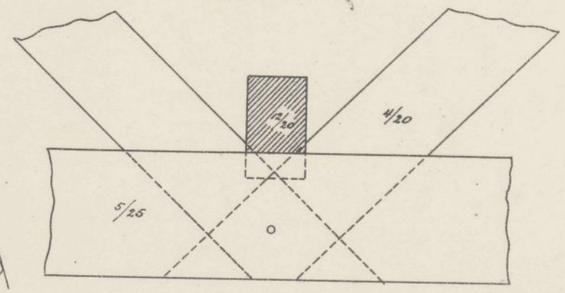
Lengte doorsnede
1:100.



Dwarsdoorsnede
1:100.



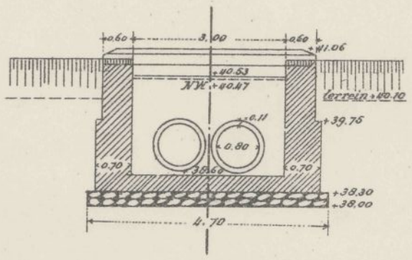
Detail 1:10.



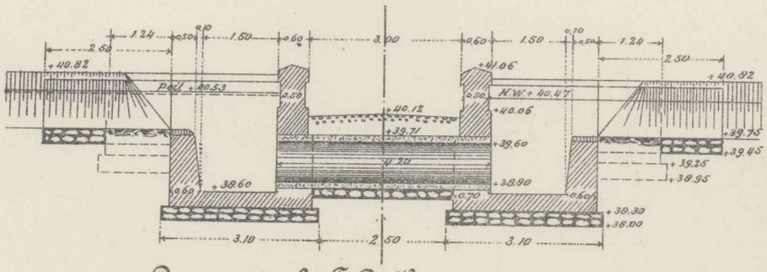
Irrigatiewerken Warocdjajeng-Hertosono.

Sijphon bij Km 19+055, Kunstwerk N°. 46.

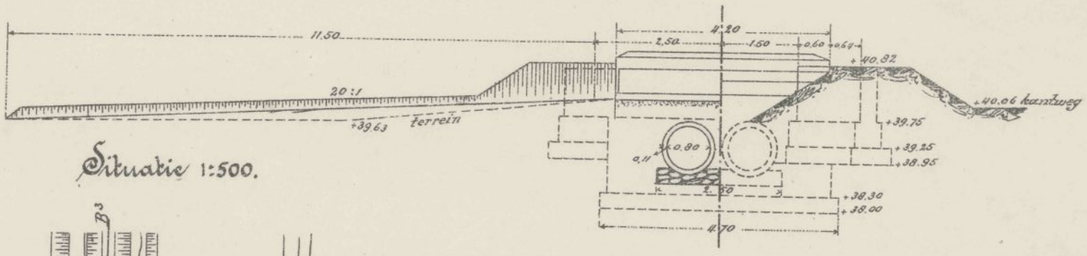
Doorsnede A.B
1:100.



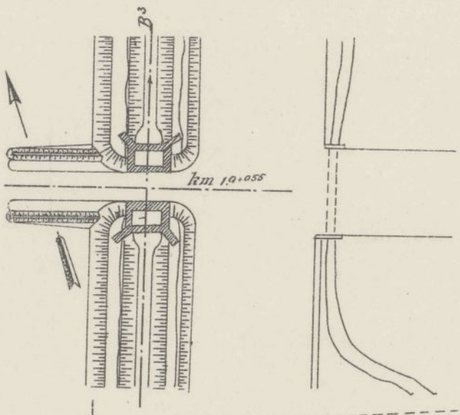
Doorsnede C.D
1:100.



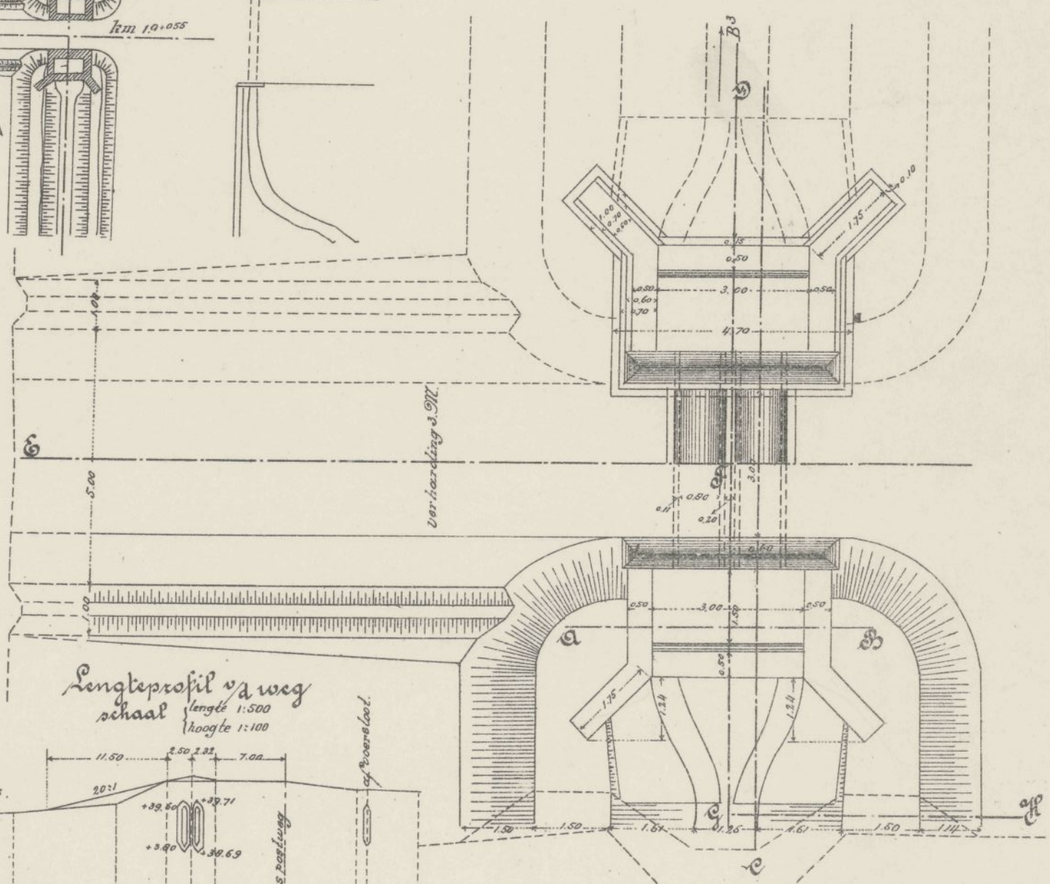
Doorsnede E.F.G.H.
1:100.



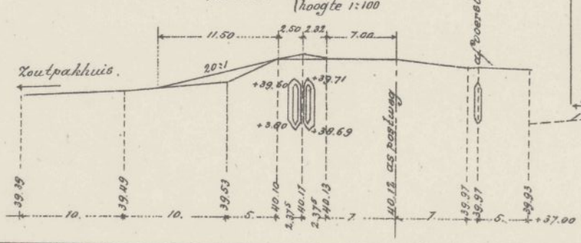
Situatie 1:500.



Platte-grond.
1:100.



Lengteprofil v/d weg
schaal lengte 1:500
hoogte 1:100

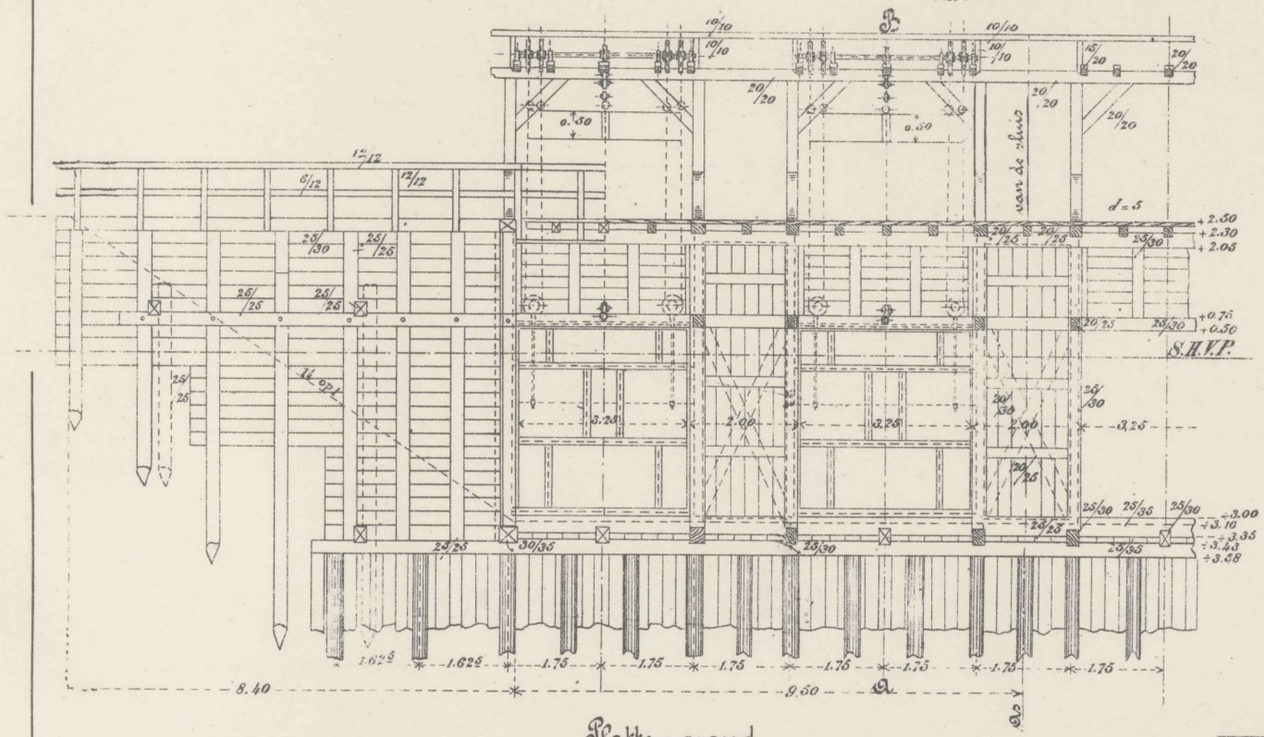


Toegestaan bij G. B. dd. 21 Juli 1904 n°. 6.

Afsluiting van den mond der Kali Blawi (Sluis Koeroe)

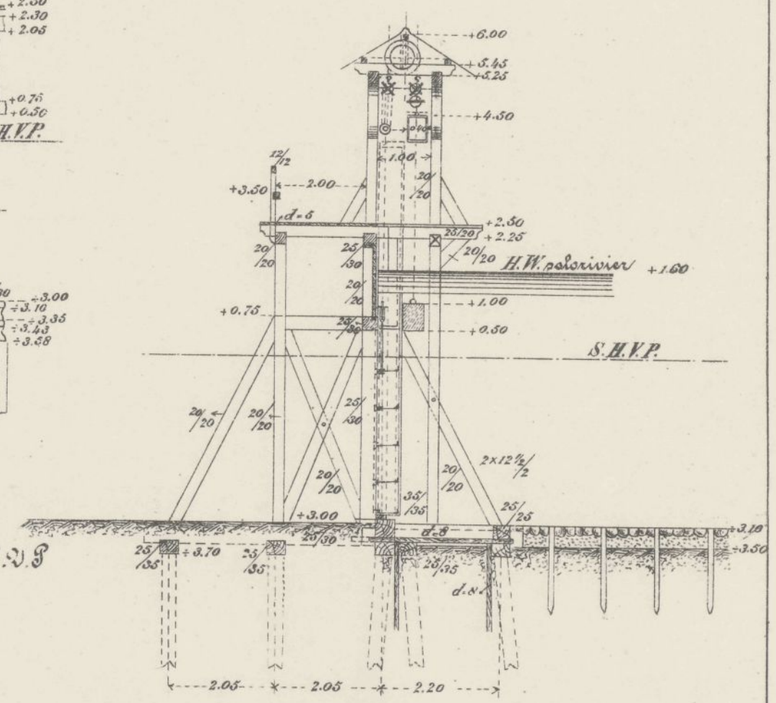
Doorsnede C. D.

1 à 100.



Doorsnede A. B.

1 à 100.

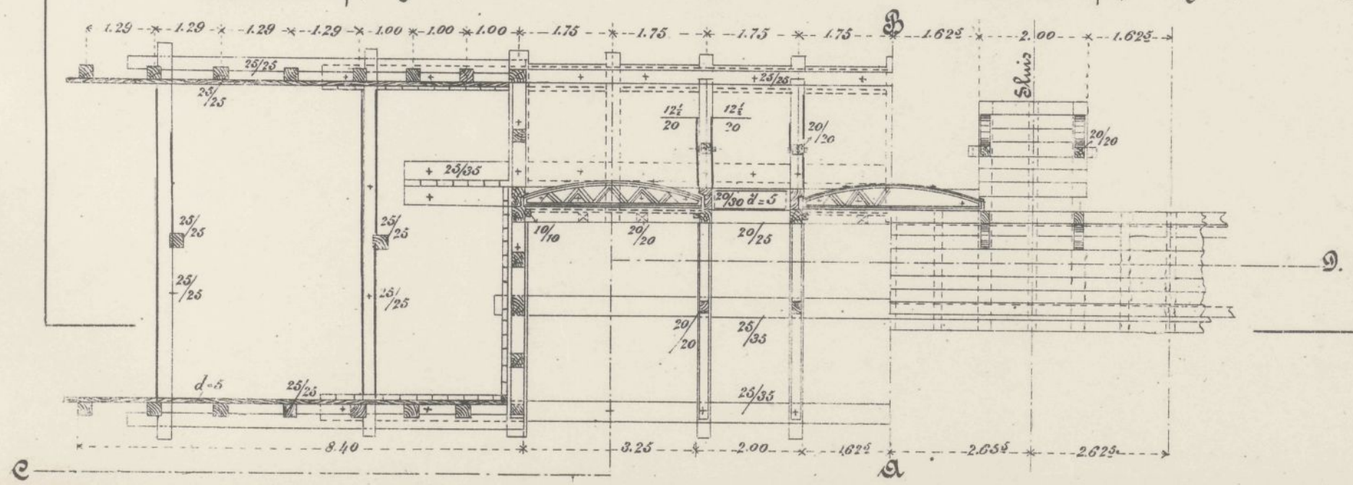


Platte-grond.

1 à 100.

Doorsnede op S.H.V.P.

Doorsnede op 5,00 + S.H.V.P.



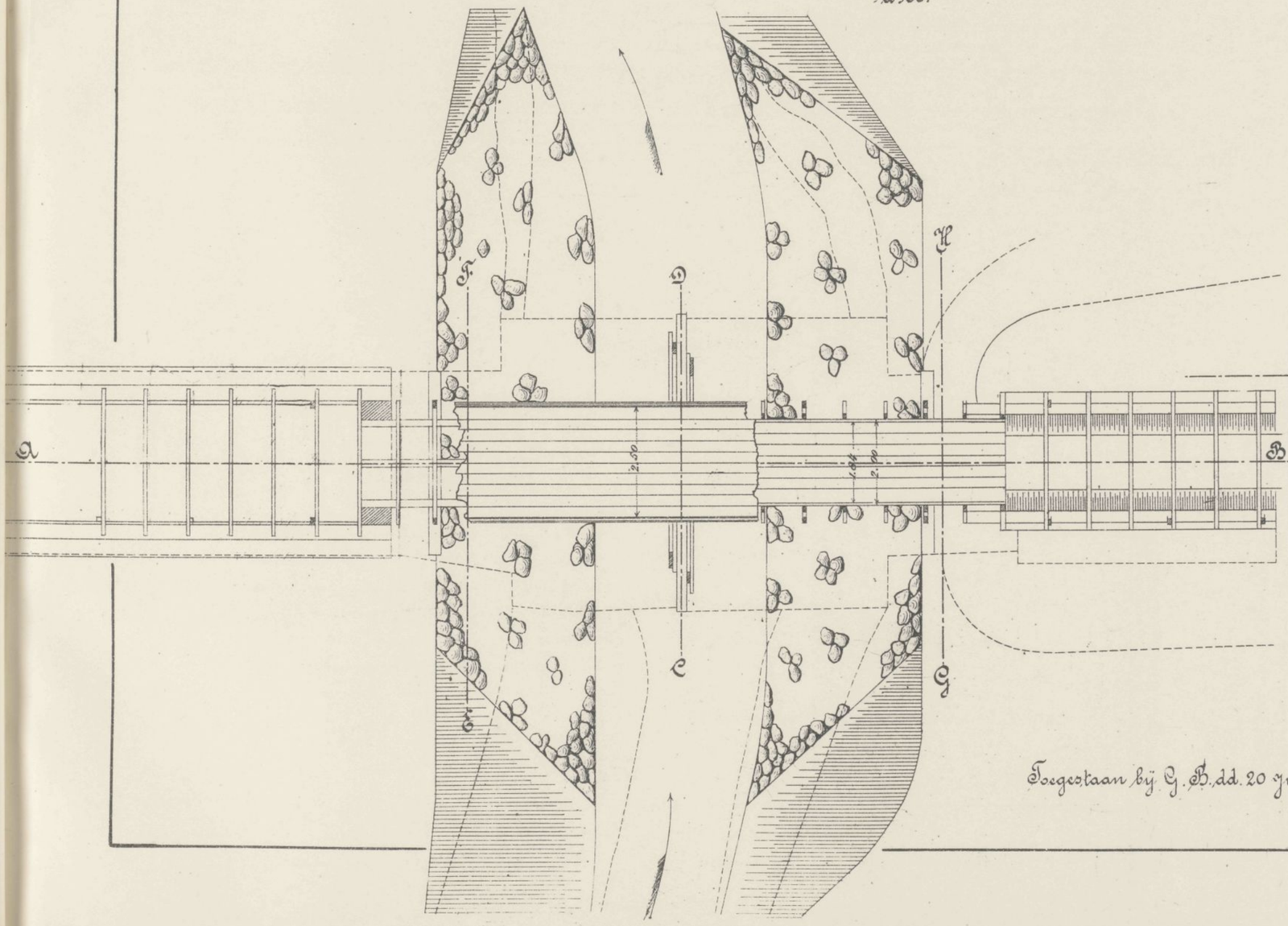
Toegestaan bij G. B. dd. 20 Maart 1903 n°. 8.

Blad I.

Ontwerp van een houten Aquaduct bij dessa Glonggong (Rengel).

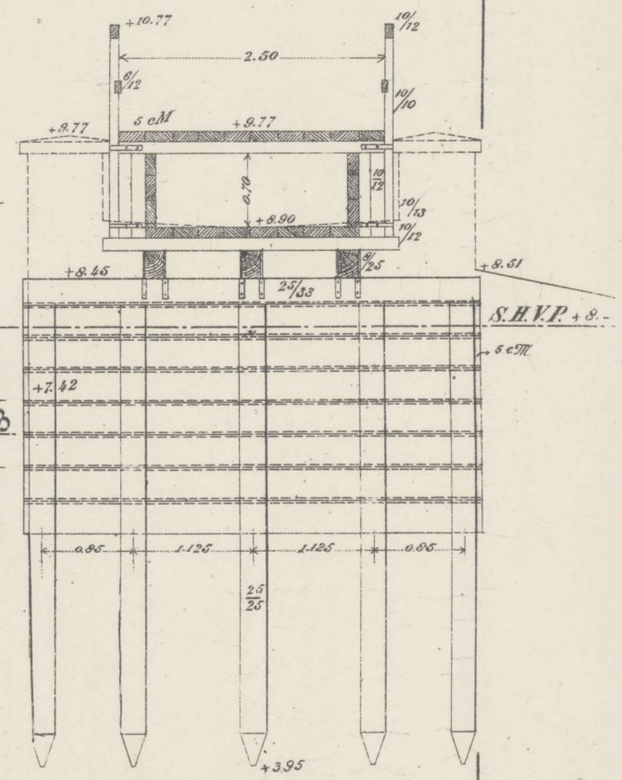
Platte-grond.

1 à 100.



Dwarsdoorsnede E.F.

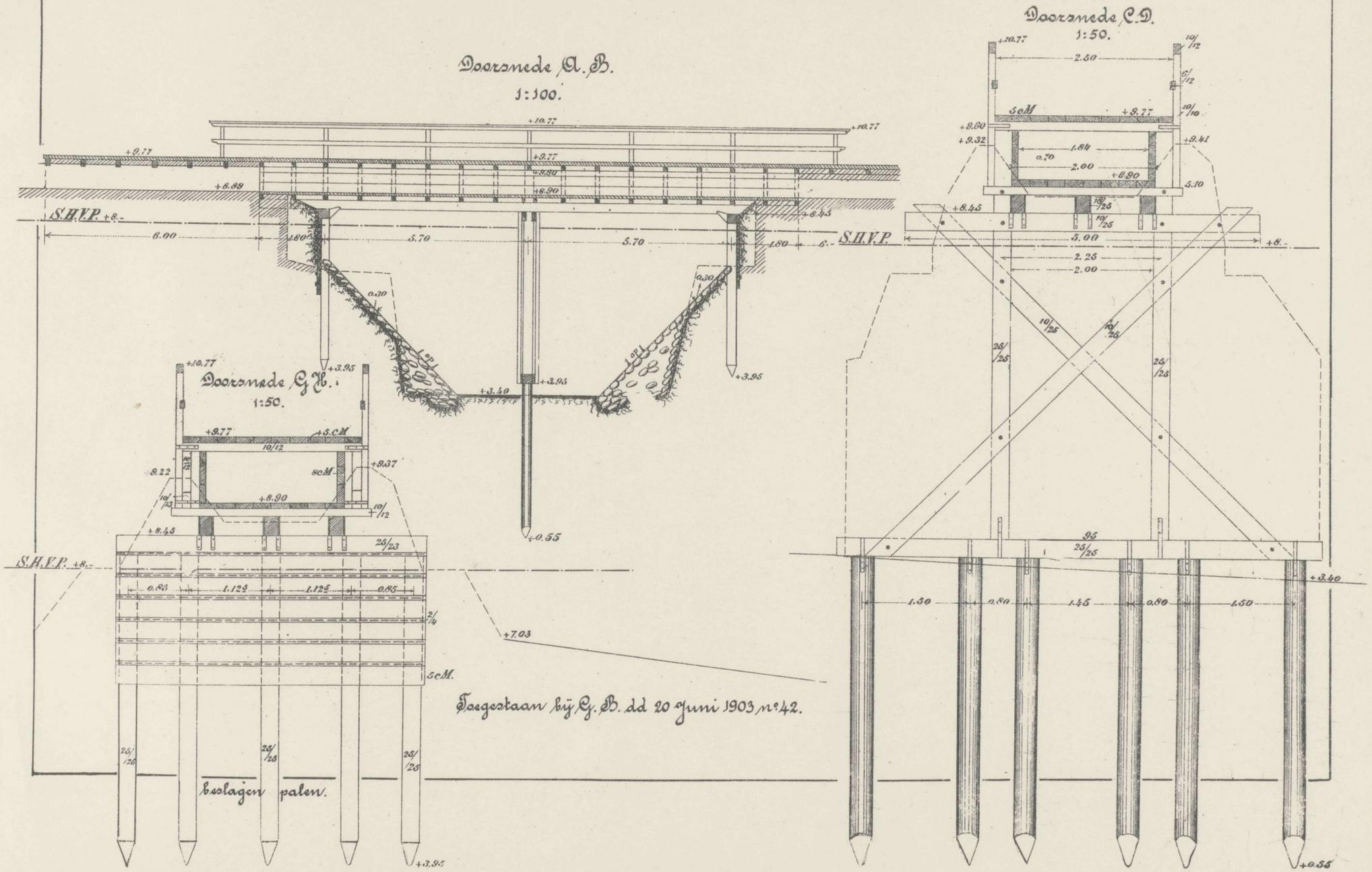
1 à 50



Toegestaan bij G. B. dd. 20 Juni 1903, No. 42.

Blad II.

Ontwerp van een houten Aquaduct bij dessa Glonggong (Rengel).



Irrigatiewerken Waroedjajeng - Kertosono.

Blad I.

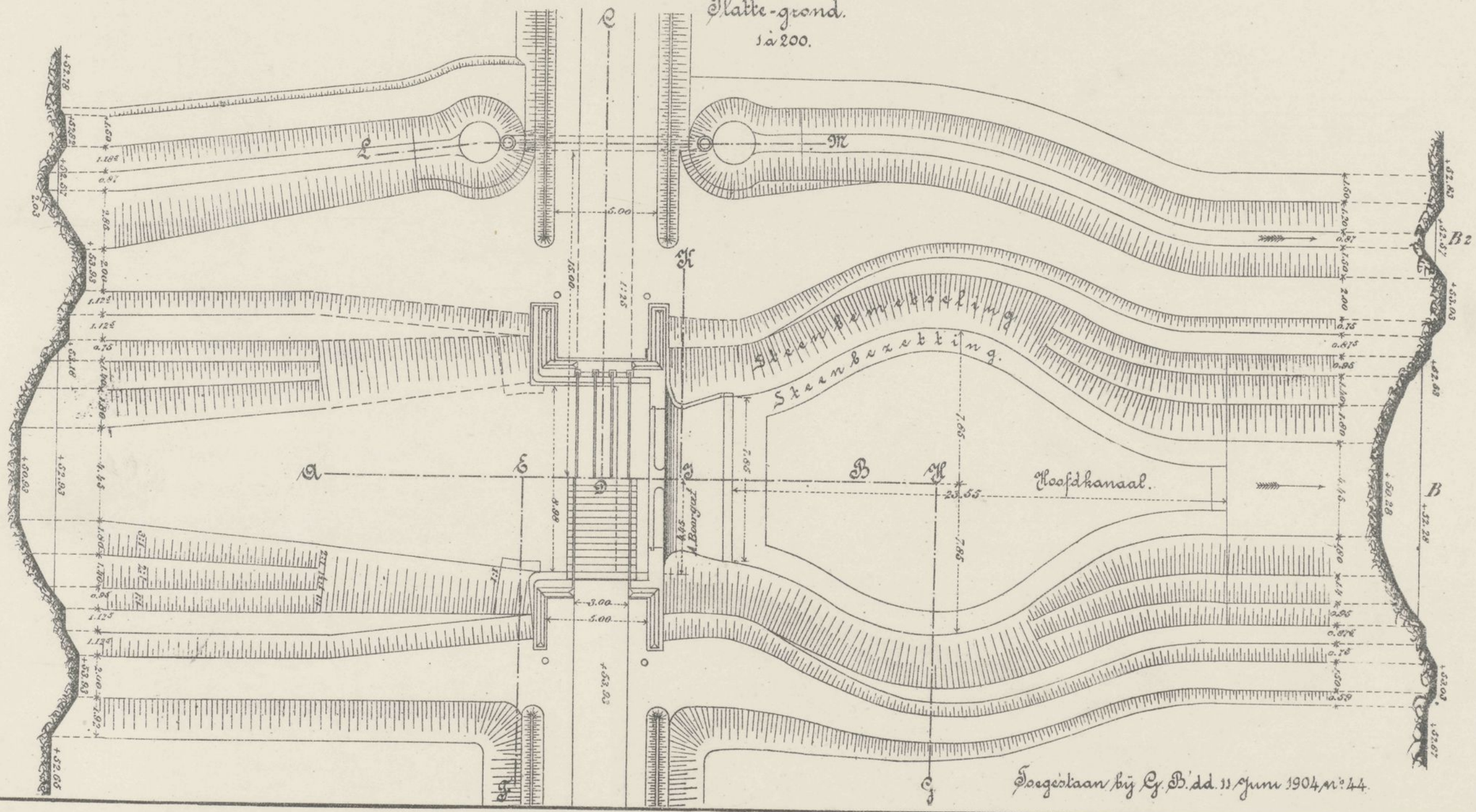
Stortdam.

bij Km: 9+210.

Kw: 9.

Platte-grond.

1 à 200.



Toegestaan bij G. B. dd. 11 Juni 1904 No. 44.

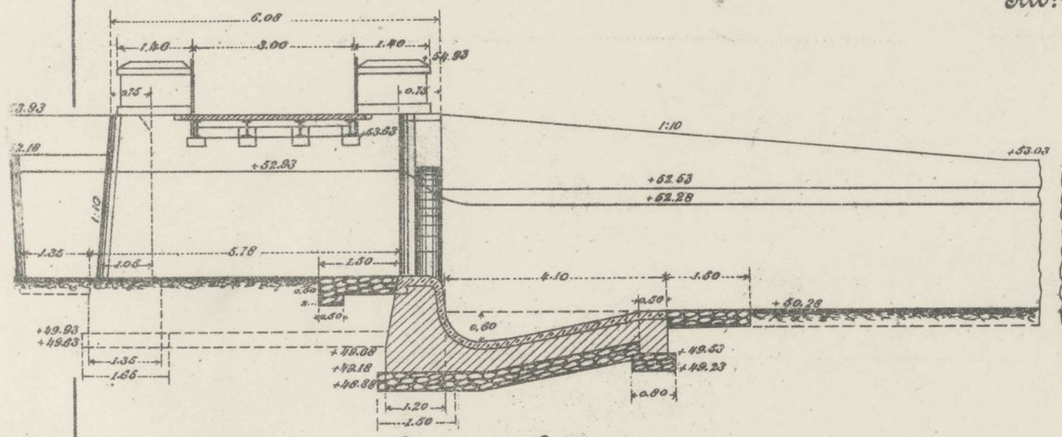
Blad II.

Irrigatiewerken Waroedjajeng-Kertosono.

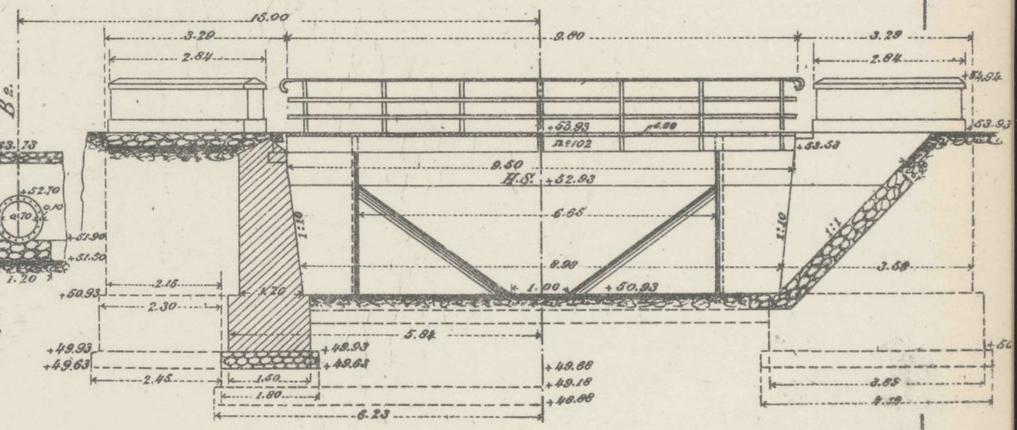
Stortdam.

bij Km: 9+210.
Kw: 9.

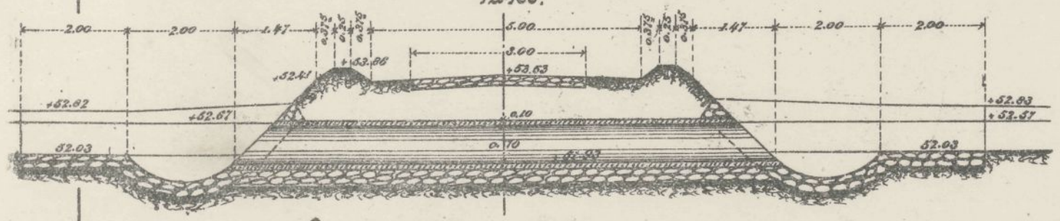
Doorsnede A.B.
1 à 100.



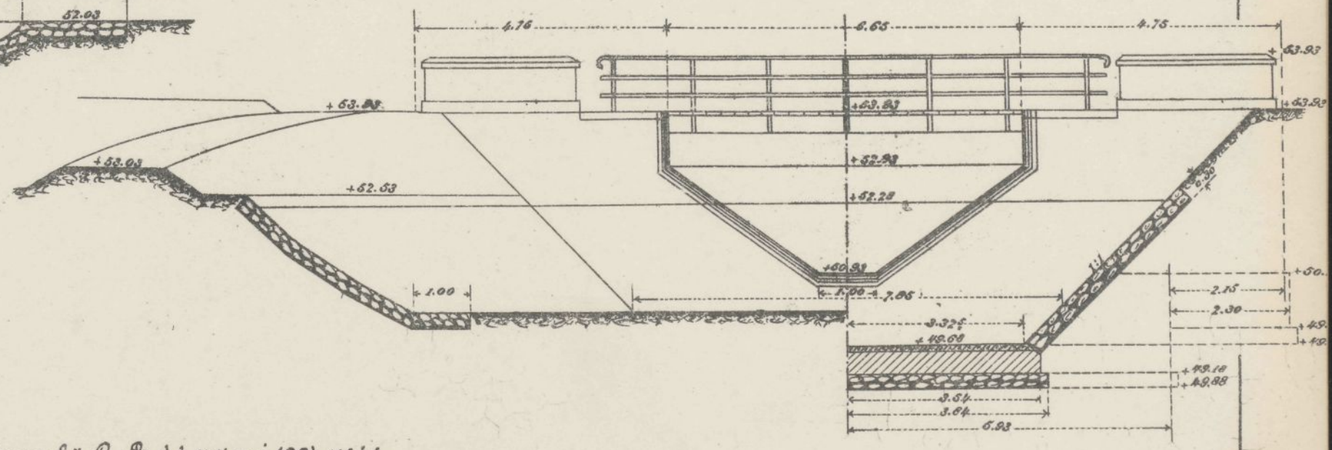
Doorsnede C.D.E.F.
1 à 100.



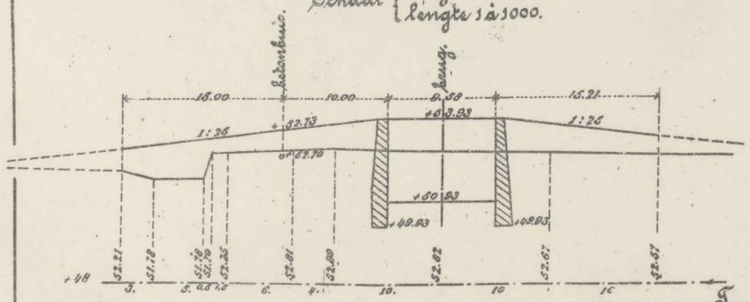
Doorsnede L.M.
1 à 100.



Doorsnede G.H.J.K.
1 à 100.



Lengteprofil omgelegde weg.
Schaal { hoogte 1 à 200. lengte 1 à 1000.



Toegestaan bij G.B. dd. 11 Juni 1904, No. 44.

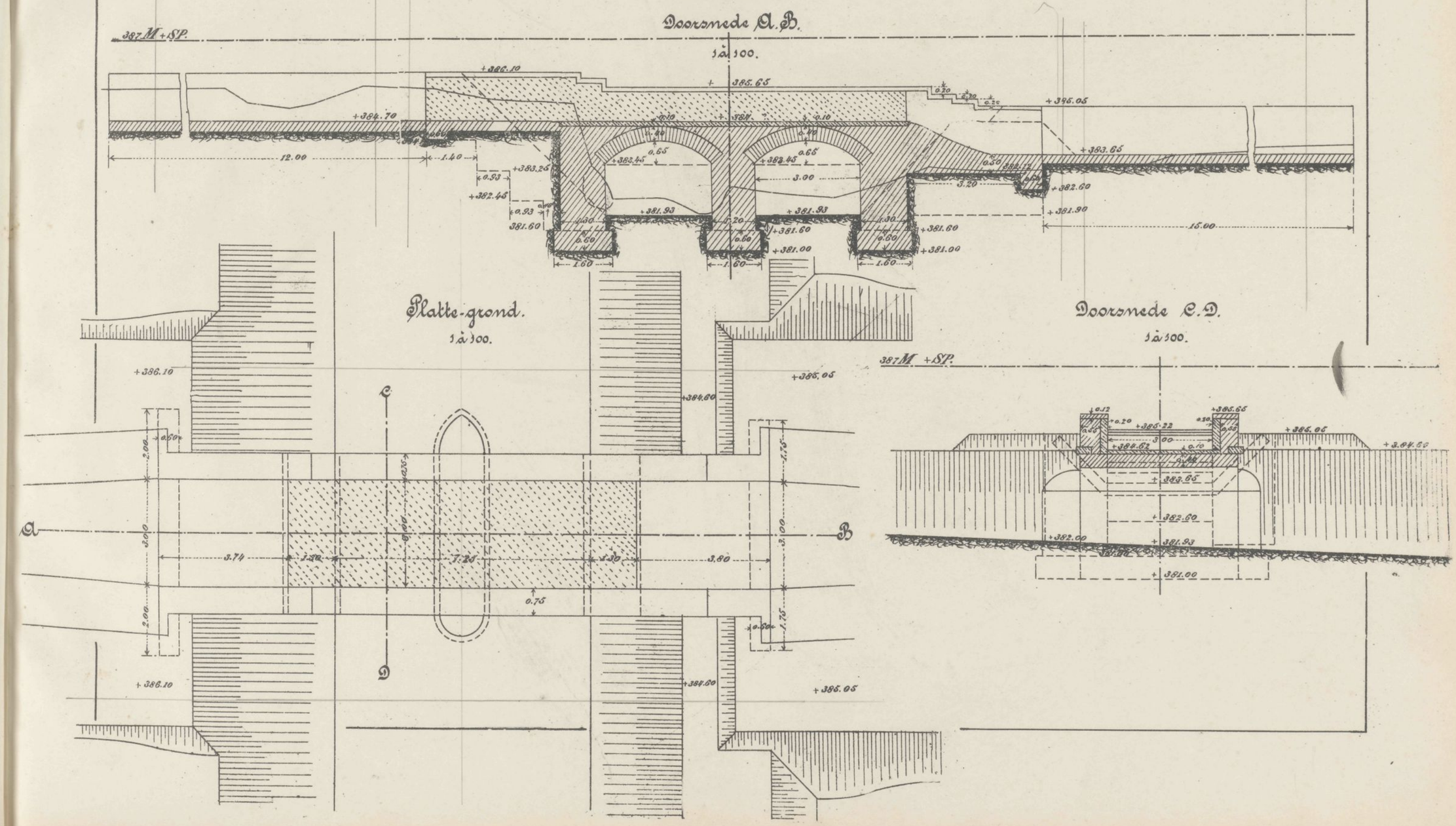
Bevloeiïng uit de Kali Tengah Leiding.

Aquaduct.

Over de Kali Watoesirah.

Kunstwerk III

Toegestaan bij G. B. dd. 8 Juni 1901 n°. 9.



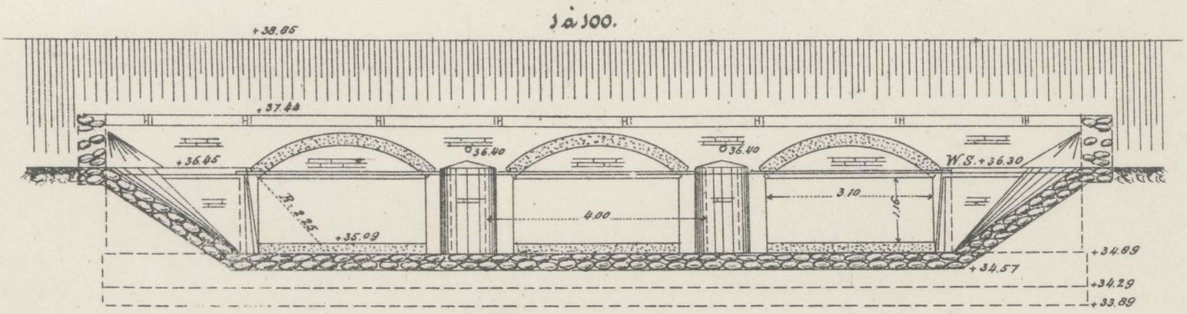
Irrigatiewerken Waroedjajeng-Kertosono.

Blad I.

Uitwateringsluis

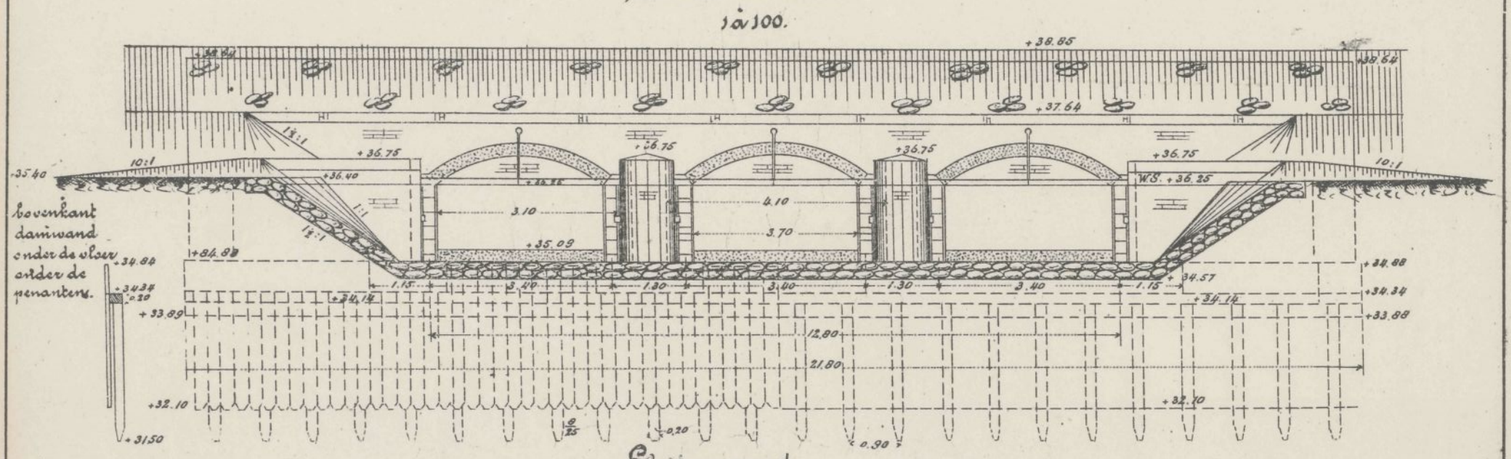
Voor-aanzicht.

1 à 100.



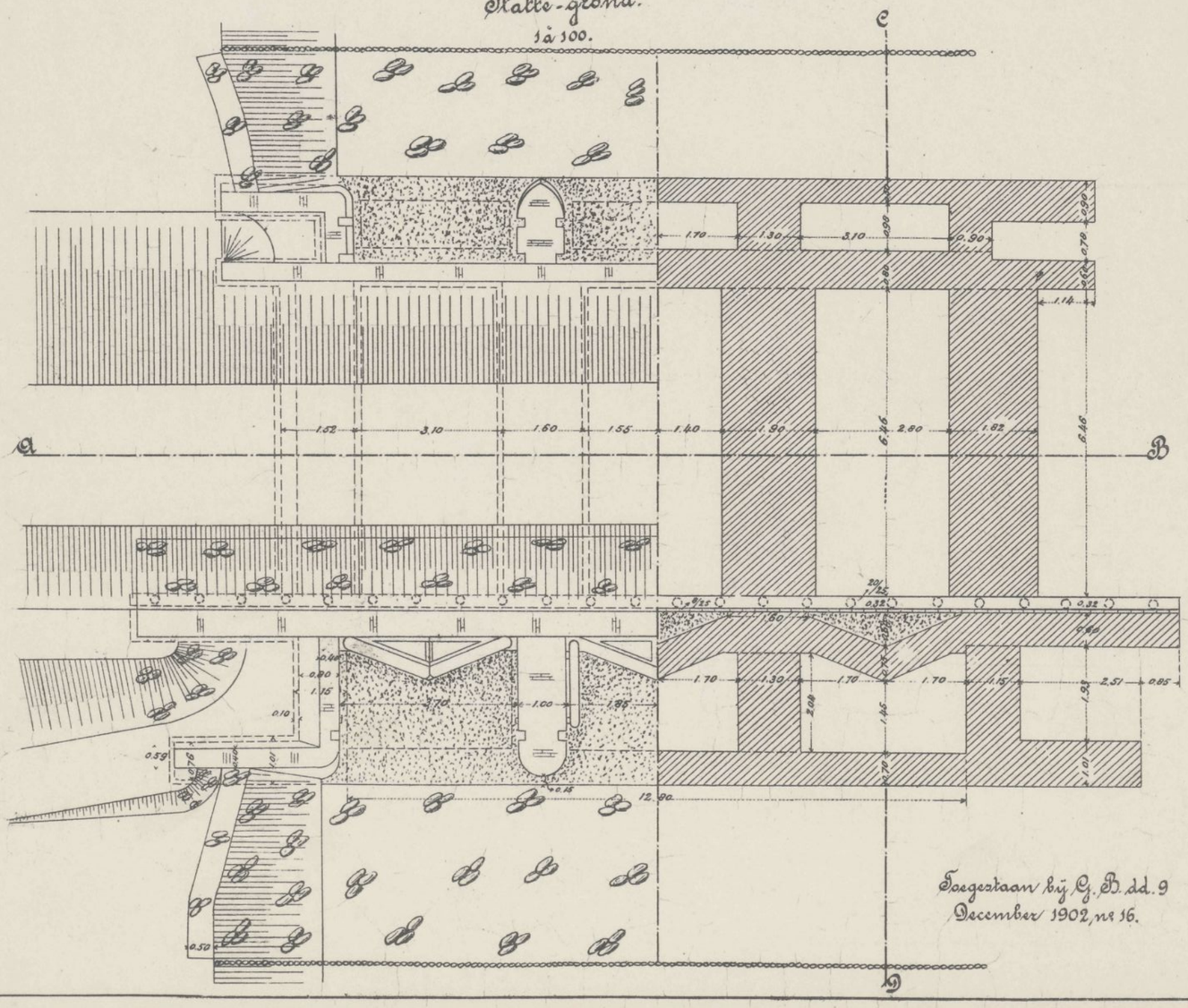
Achter-aanzicht.

1 à 100.



Platte-grond.

1 à 100.



Toegezonden bij G. B. dd. 9 December 1902, nr 16.

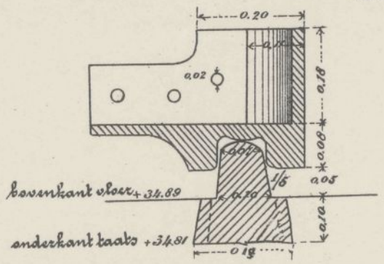
Irrigatiewerken Warodjajeng-Kertosono.

Uitwateringsluis.

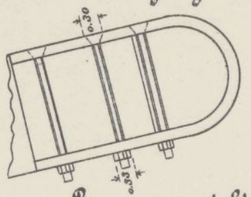
Blad II.

Doorsnede taatsin keuspot.

1 à 10.

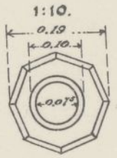


Bovenaanzicht gietijzeren schoon.

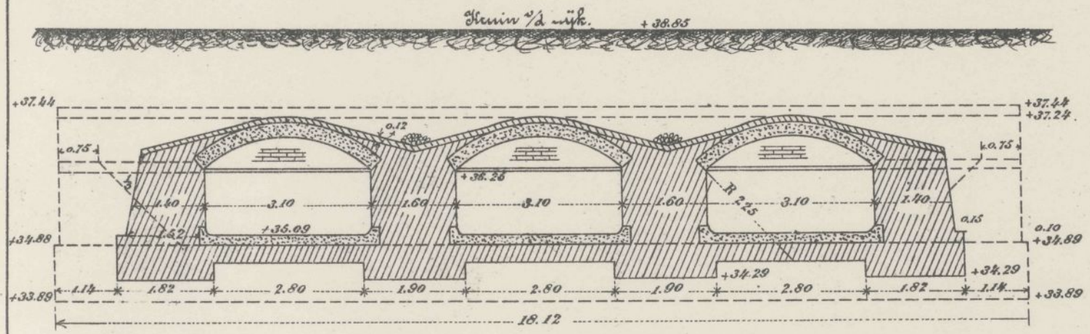


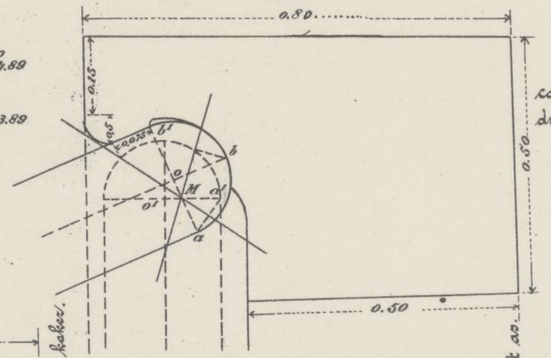
Bovenaanzicht taats.

1:10.



Doorsn. A.B.

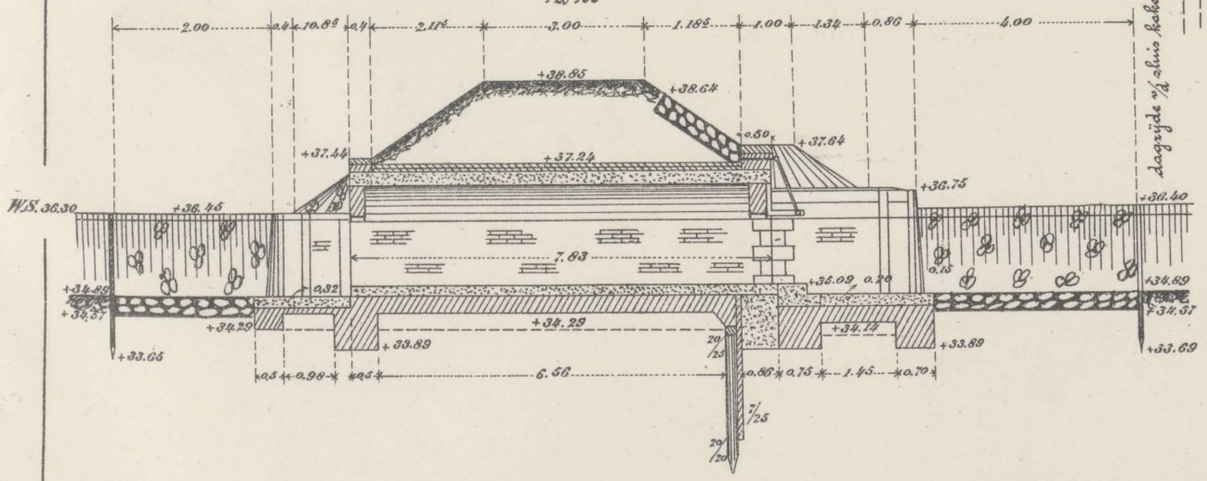




constructie figuur van het draaungs middelpunt M.

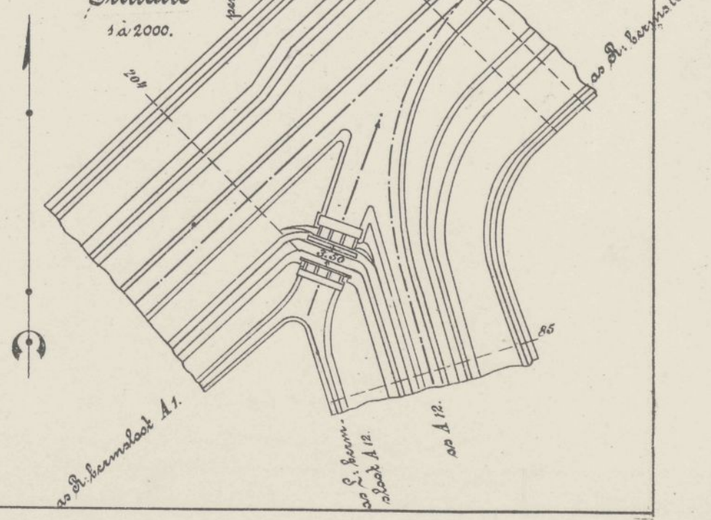
Lengte-doorsnede C.D.

1 à 100



Situatie

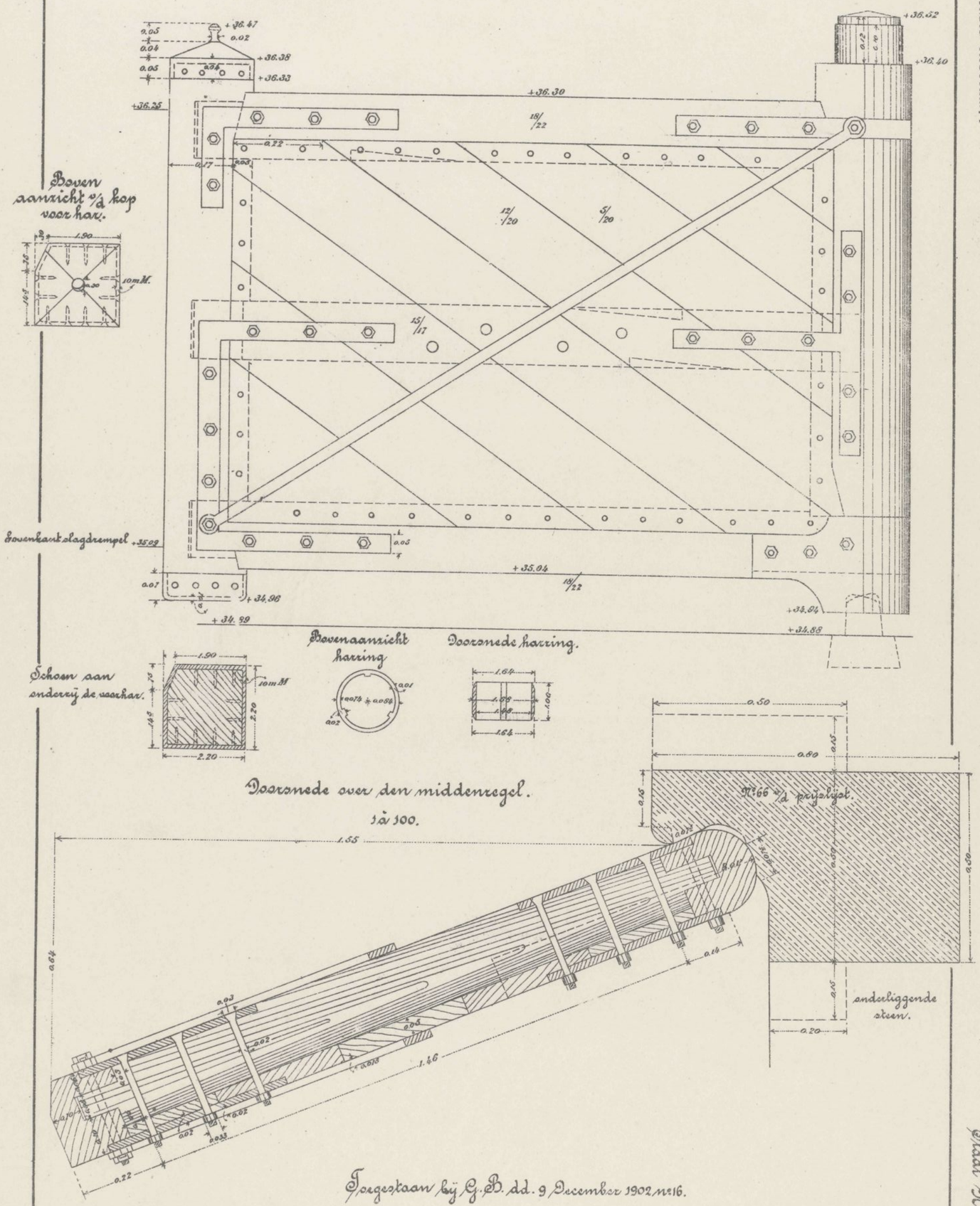
1 à 2000.



Toegestaan bij G.B. dd. 9 December 1902, No. 16.

Irrigatiewerken Warodjajeng - Kertosono. — Blad III.

Uitwateringsluis.



Toegestaan bij G.B. dd. 9 December 1902 n.16.

Plaat N.° 79.

Blad IV.

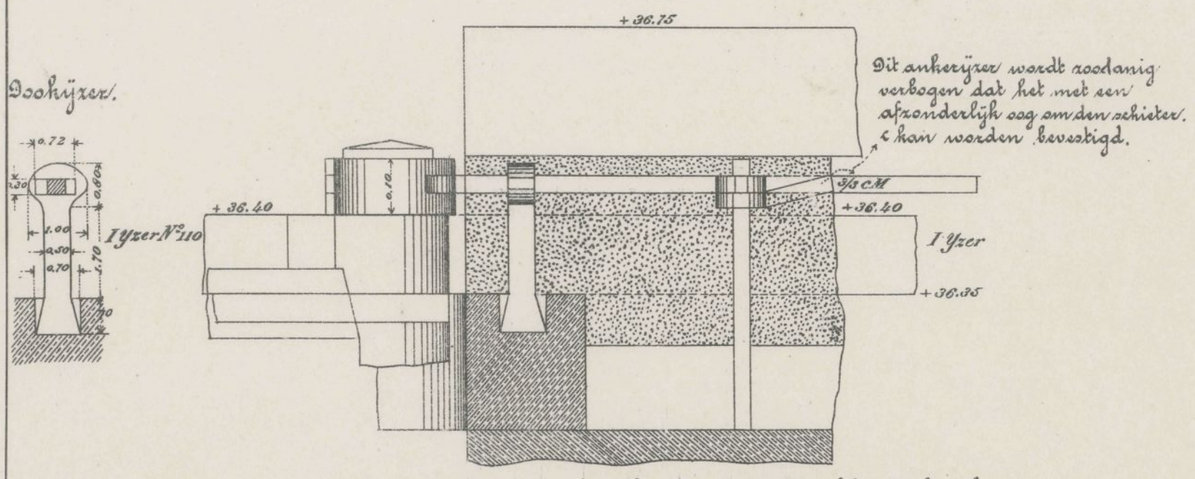
Irrigatiewerken Warordjajeng Kertosono.

Uitwateringsluis.

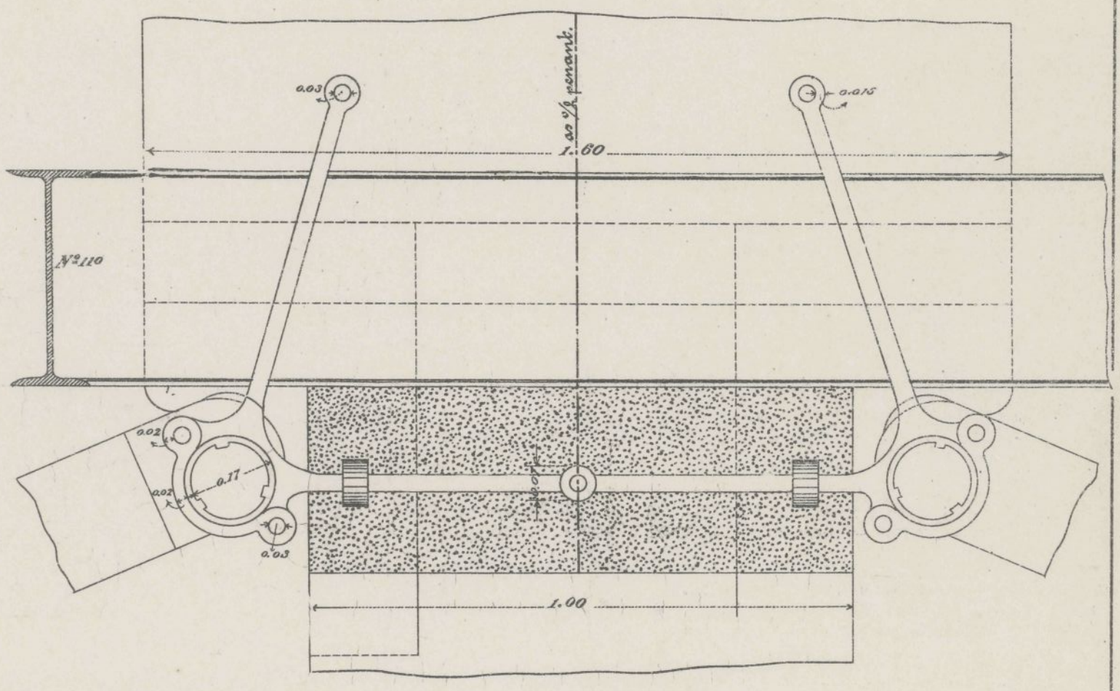
Toegestaan bij G. B. dd. 9 December 1902, No. 16.

Verankering halsbeugel.

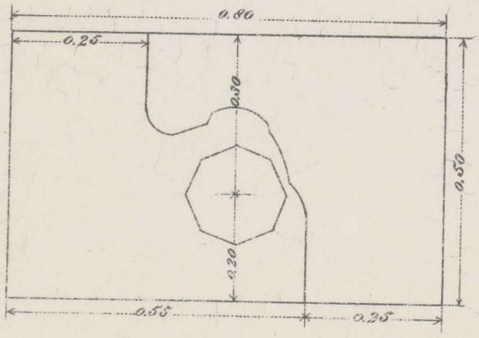
1 à 10.



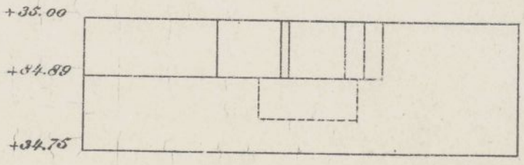
N. B. ruimten tusschen de ankerijzers in het metsel werk vol te gieten met cement specie.



Bovenaanzicht 1/4 komplaat.

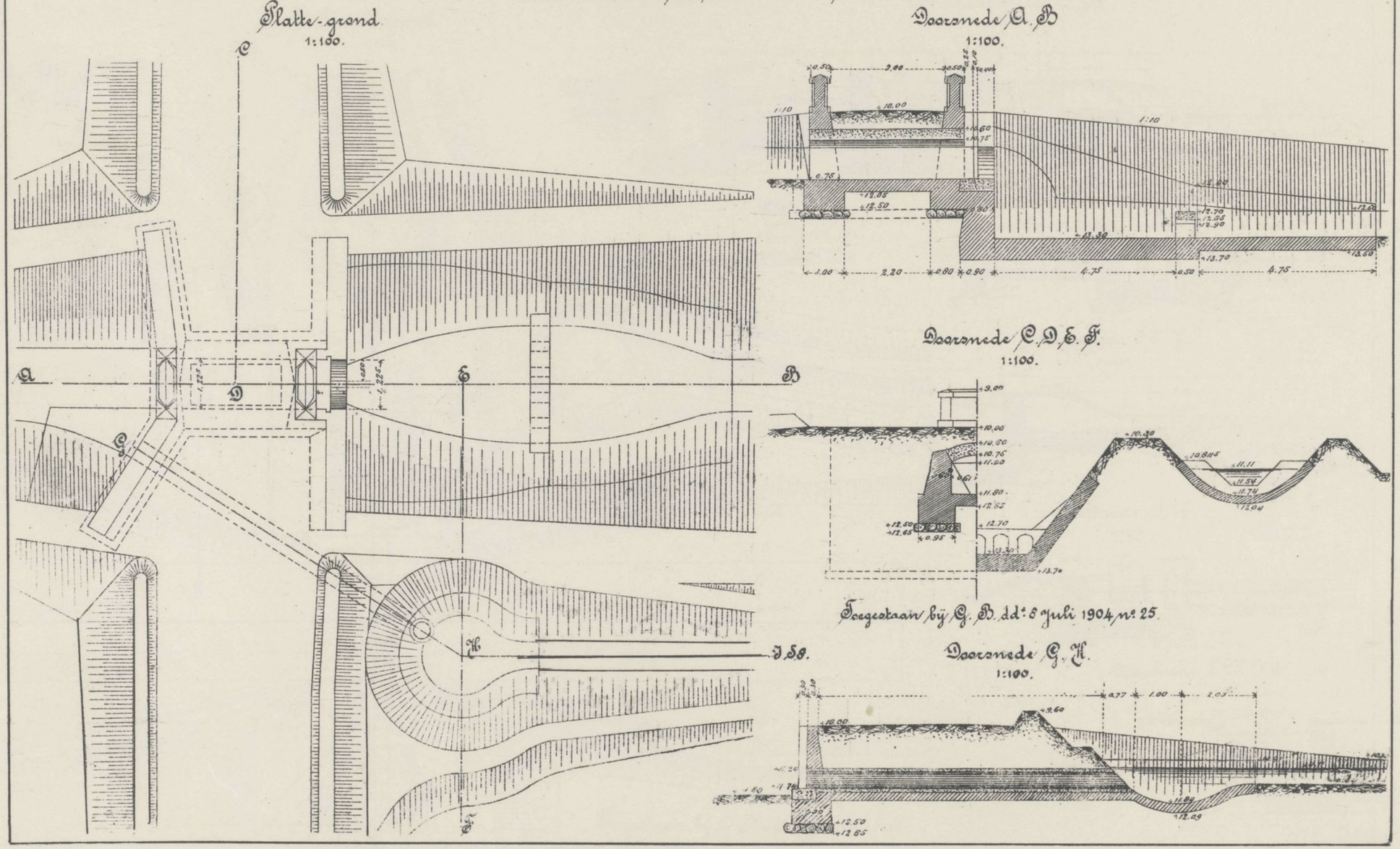


Voor-aanzicht 1/4 komplaat.



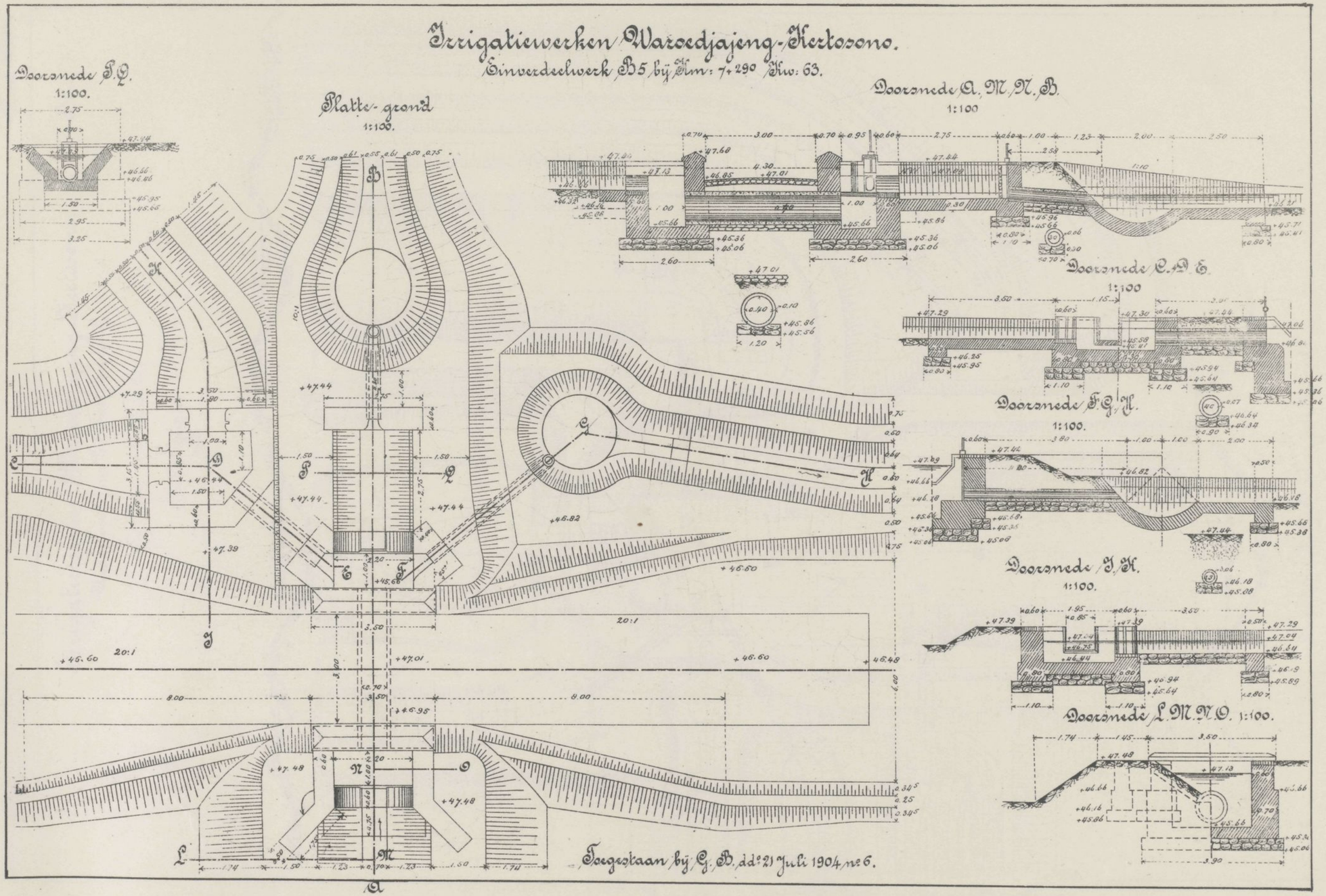
Irrigatiewerken in Pamekasan.

Verdeelsluis voor D8 Kunstwerk S. 38.



Irrigatiewerken Waroedjajeng-Kertosono.

Einverdeelwerk B5, bij Km: 7+290 Rw: 63.



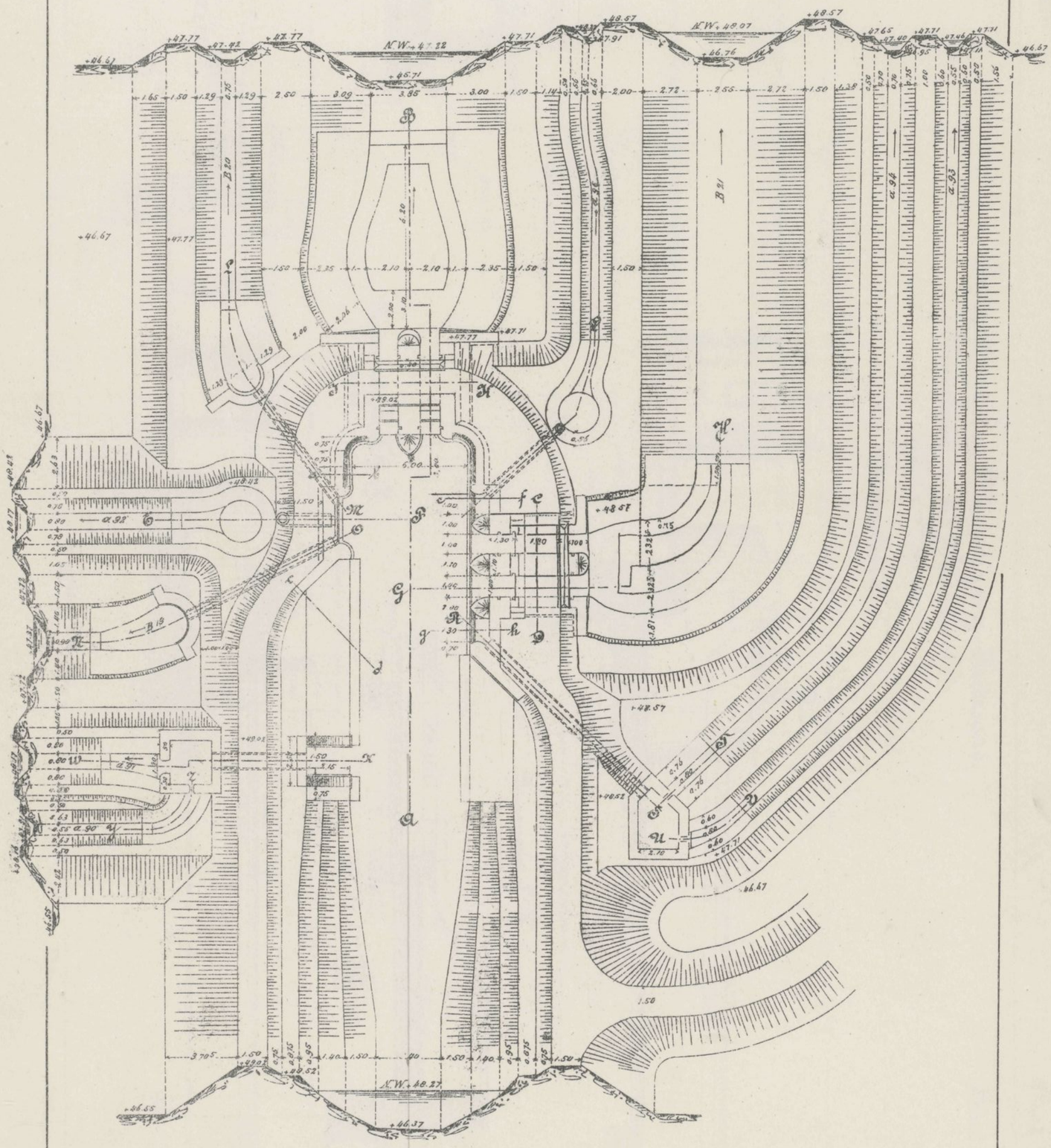
Irrigatiewerken Warocdjajeng-Kertosono.

Blad I.

Verdeelwerk in het hoofdkanaal.

bij Km: 16+960/Kw: 20.

Platte-grond
1:200.



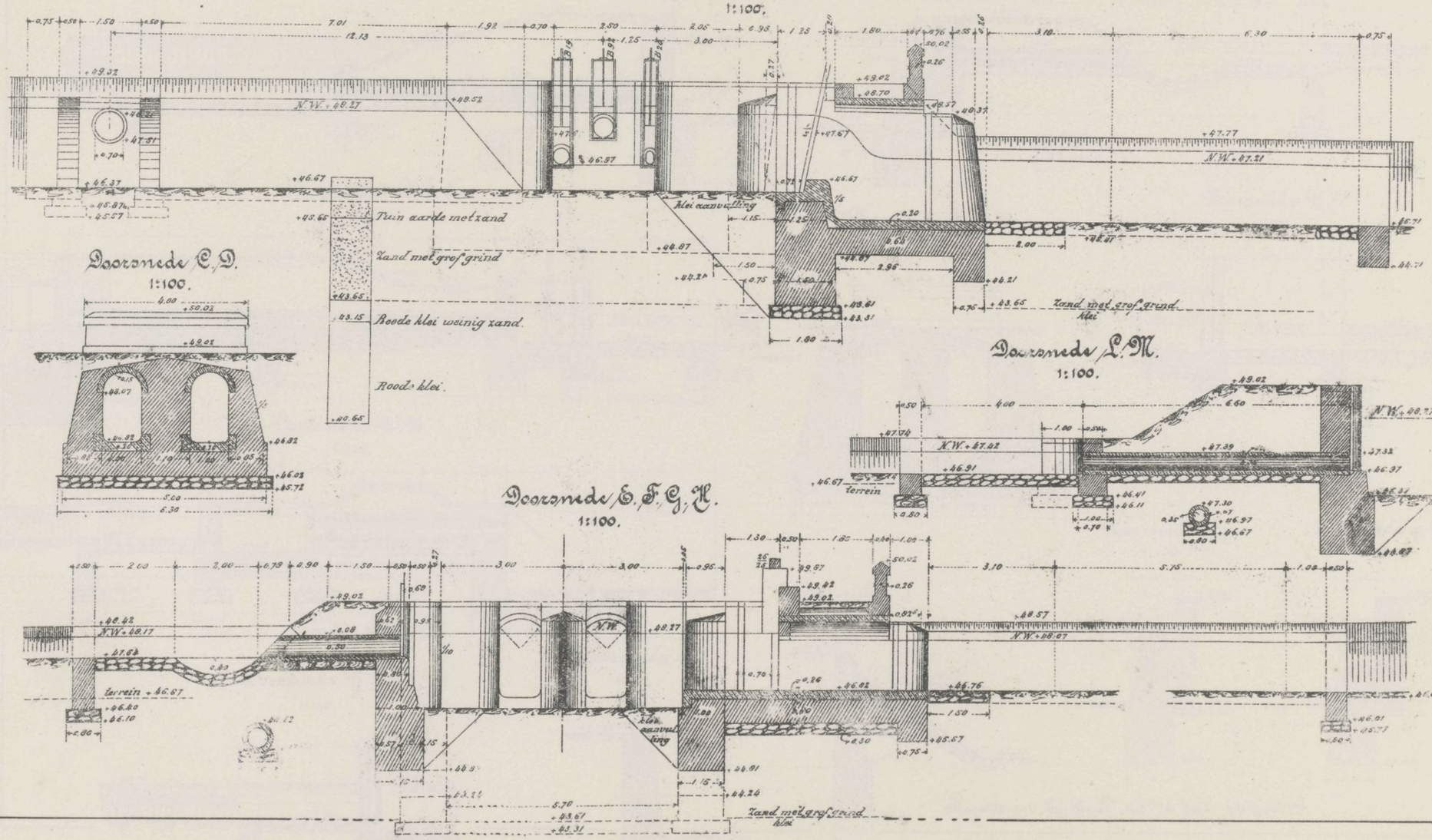
Toegestuan bij G. B. dd: 14 juli 1905 no 23.

Irrigatiewerken Warocdjajeng-Pertosono.

Verdeelwerk in het Hoofdkanaal.

bij Pk. 15+960 Pw: 20.

Blad II.



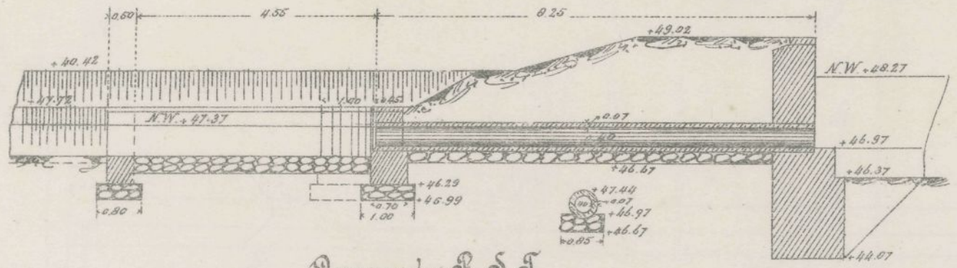
Irrigatiewerken Waroedjajeng-Kertosono.

Verdeelwerk in het hoofdkanaal.

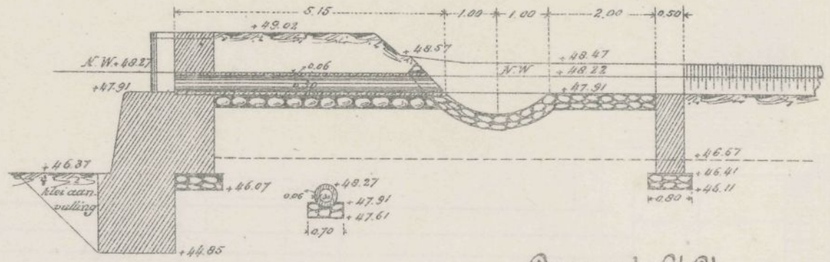
Blad III.

bij Km: 16+960 Kw: 20.

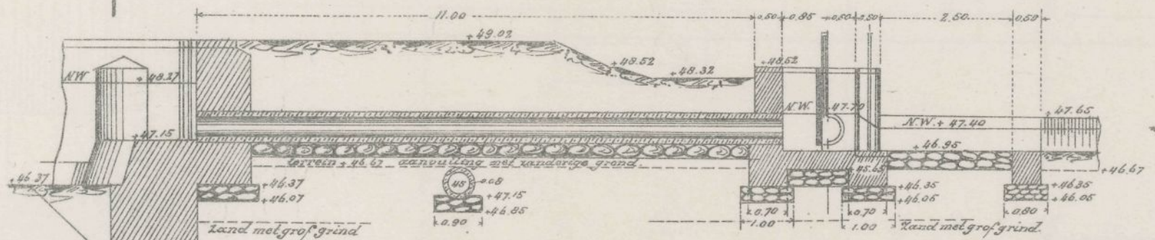
Doorsnede N.O.
1:100.



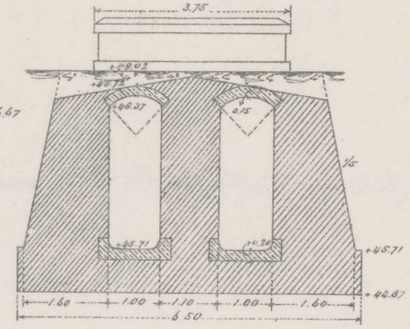
Doorsnede P.Q.
1:100.



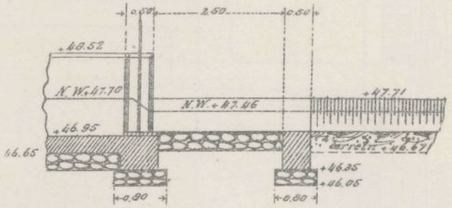
Doorsnede R.S.T.
1:100.



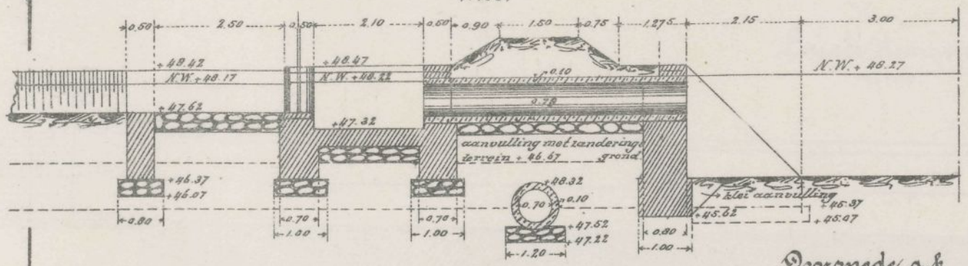
Doorsnede S.H.
1:100.



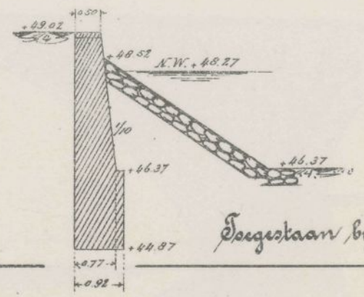
Doorsnede U.V.
1:100.



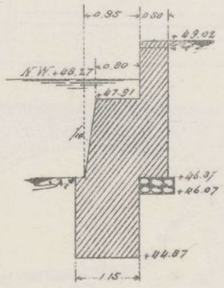
Doorsnede W.X.
1:100.



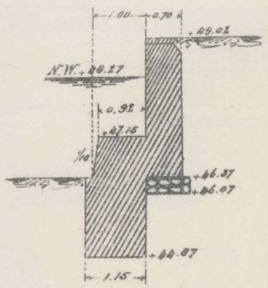
Doorsnede c.d.
1:100.



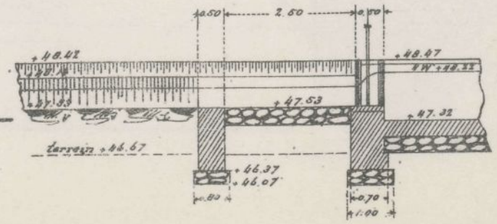
Doorsnede e.f.
1:100.



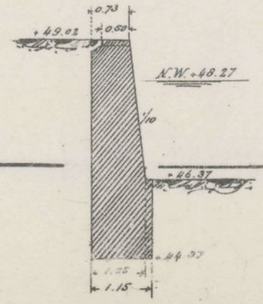
Doorsnede g.h
1:100



Doorsnede Y.Z.
1:100.



Doorsnede a.b
1:100.



Toegestaan bij G.B. dd: 14 Juli 1905 n°: 23.

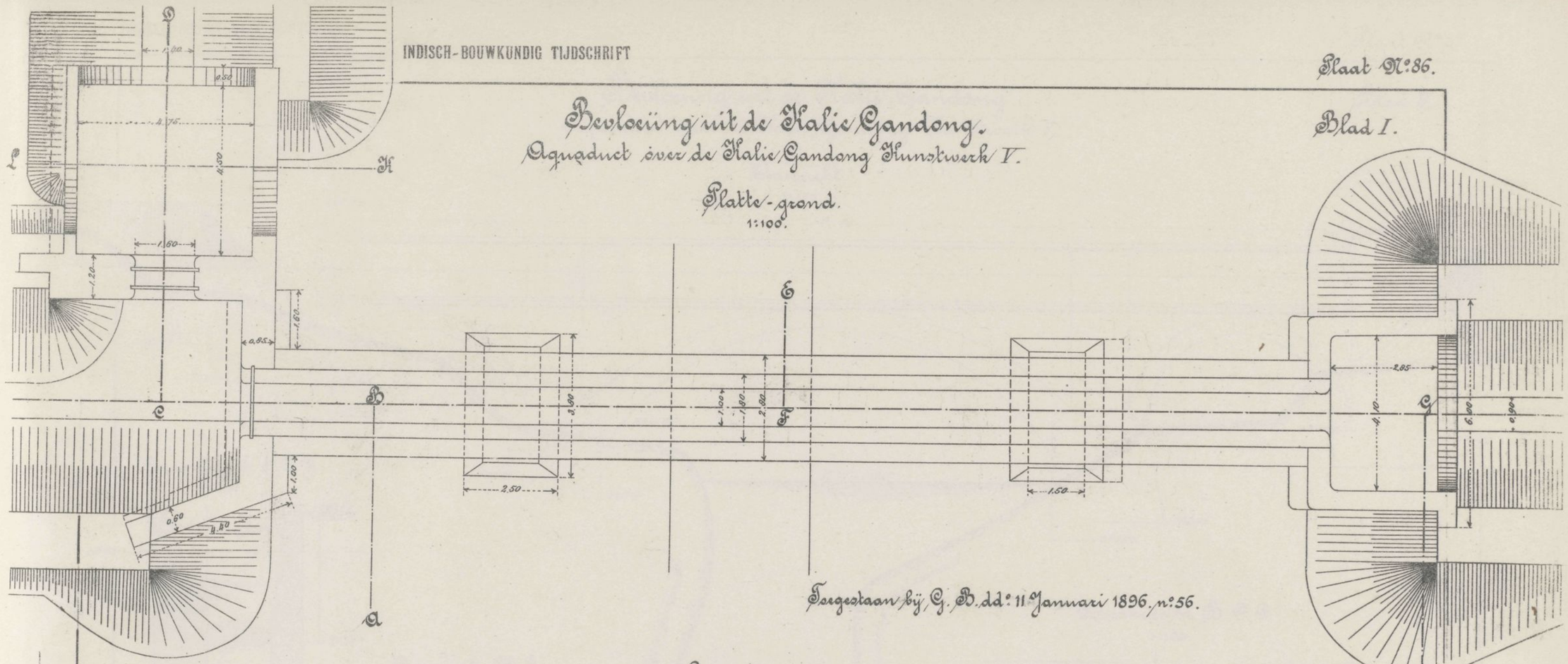
Bevloeiing uit de Kalie Gandong.

Aquaduct over de Kalie Gandong Kunstwerk V.

Blad I.

Platte-grond.

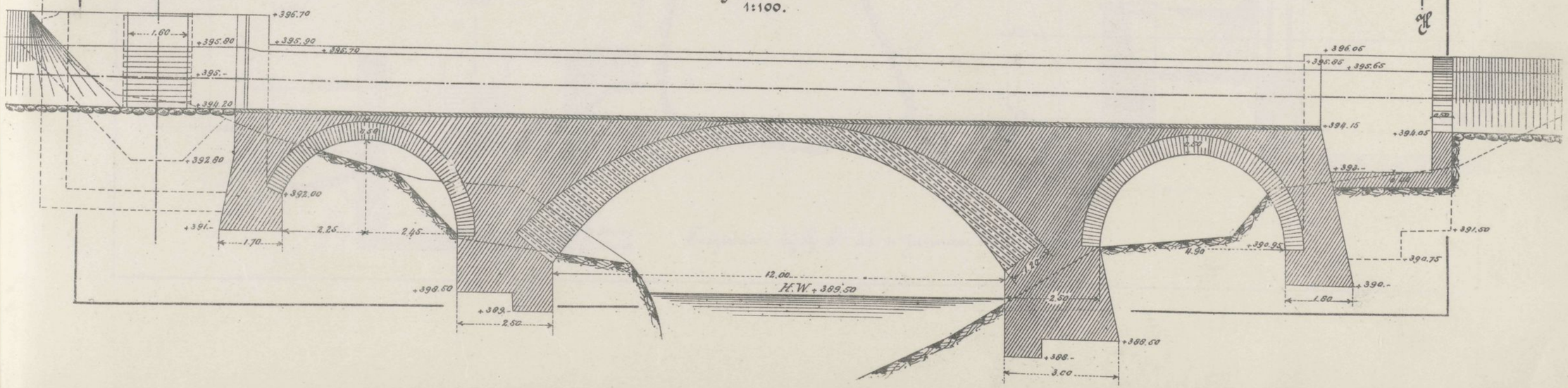
1:100.



Vergestaan bij G. B. dd: 11 Januari 1896, n: 56.

Lengte doorsnede

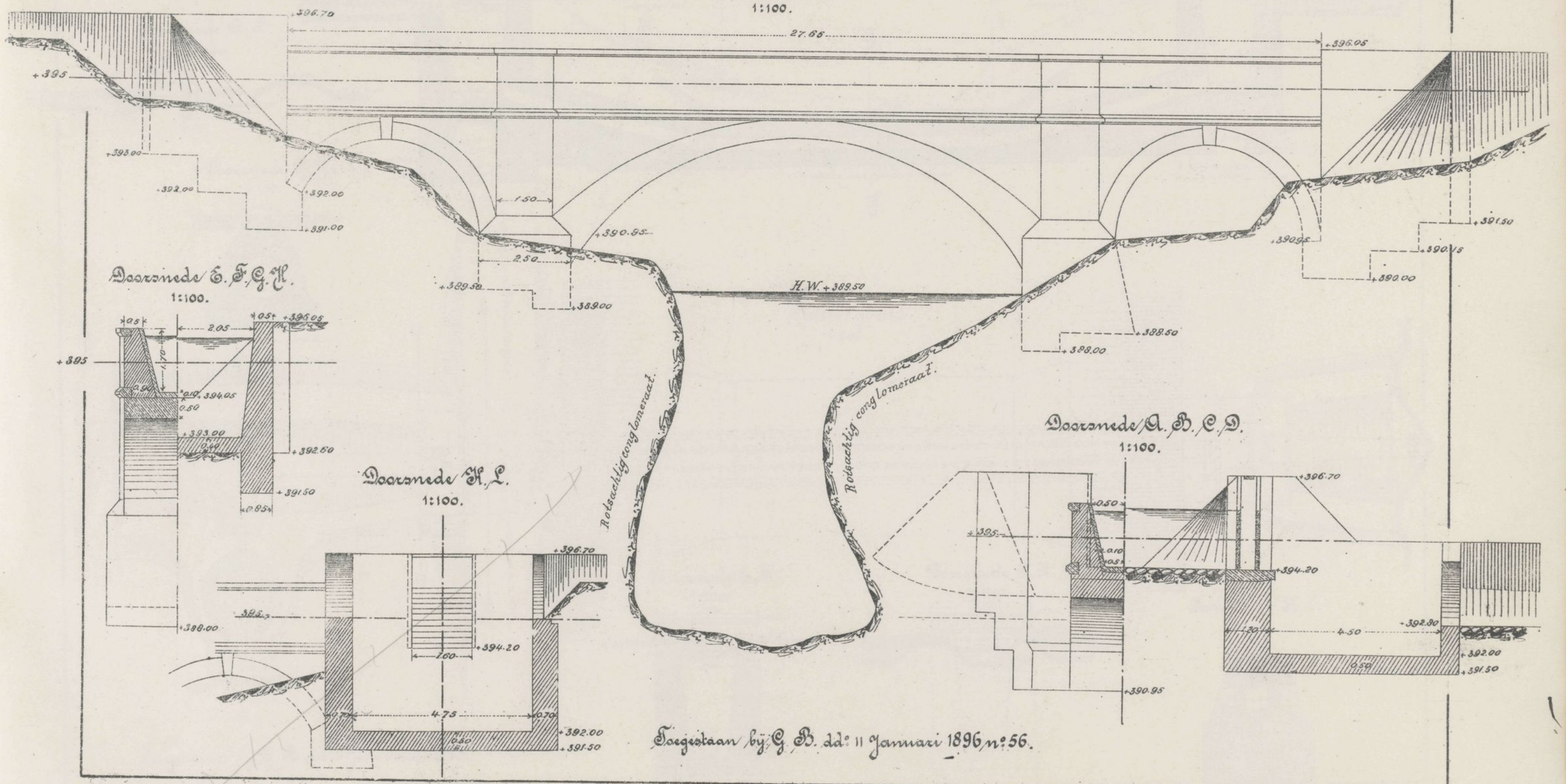
1:100.



Bevloeiïng uit de Kalie Gandong.

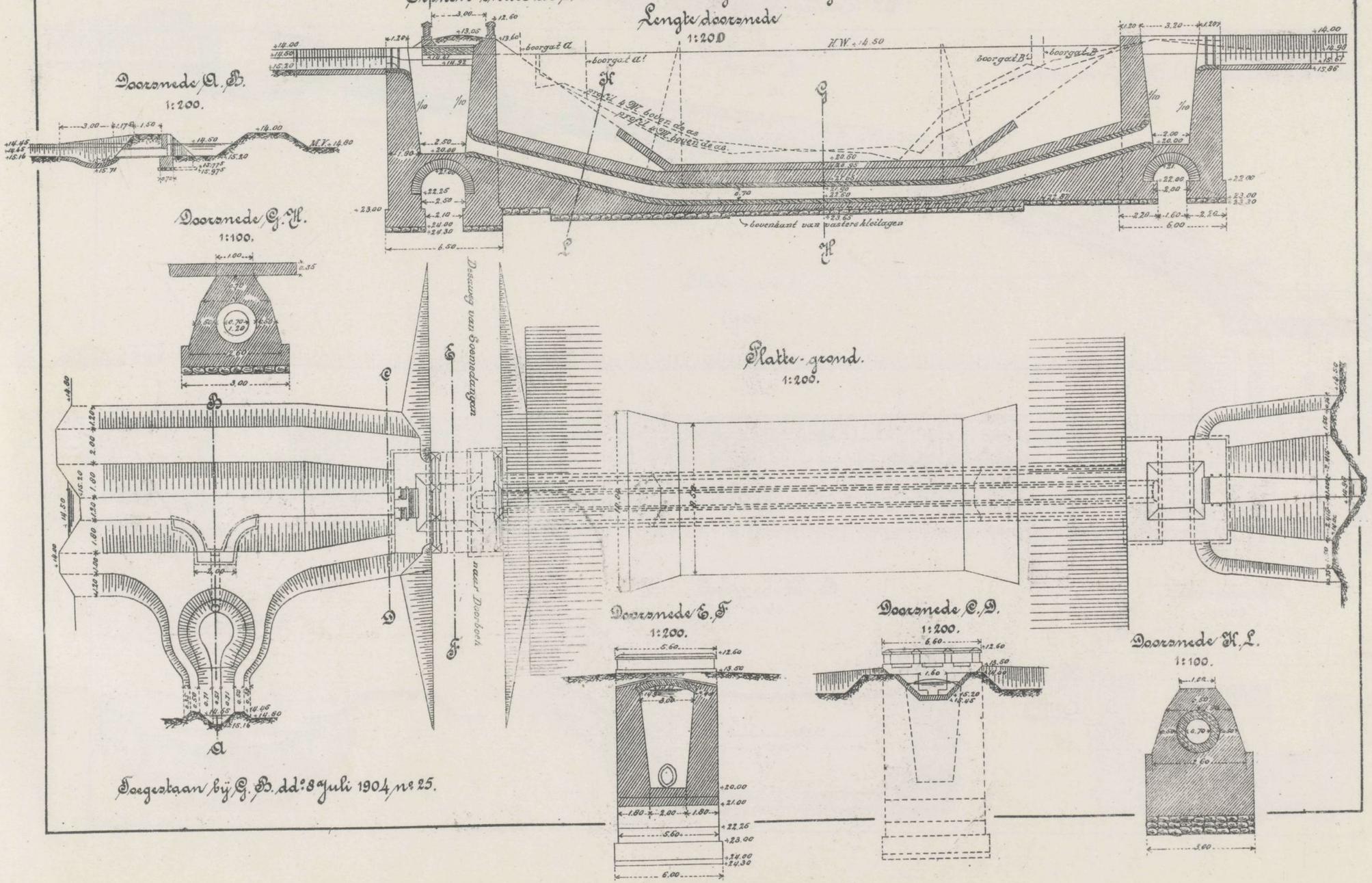
Aquaduct over de Kalie Gandong Kunstwerk V.

Blad II.



Irrigatiewerken in Samekasan.

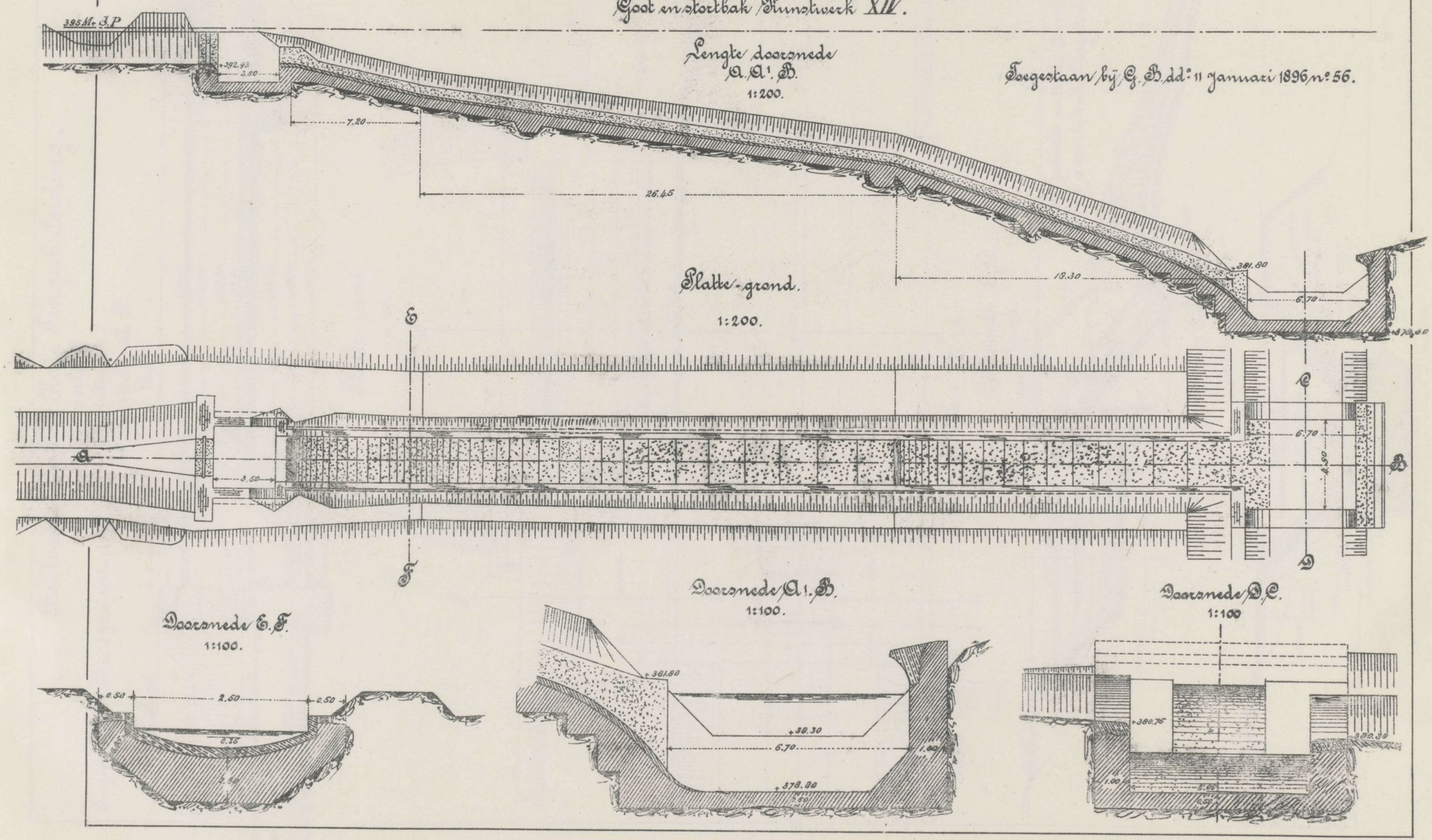
Siphon onder de Samiran-rivier bij Soemedangan en inlaatsluis.



Goedgekeurd bij G.B. dd: 8 Juli 1904, no 25.

Bevloeiing uit de kalie Gandong.

Goot en stortbak Kunstwerk XIV.



Bevloeiïng uit de Kali Tengah Leiding.

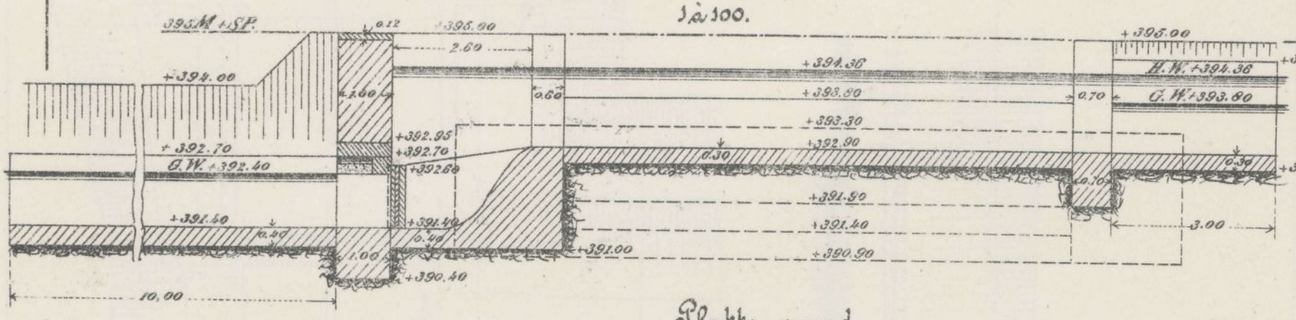
Overlaat

Kunstwerk I.

Toegestaan bij G.B. dd. 8 Juni 1901, n°9.

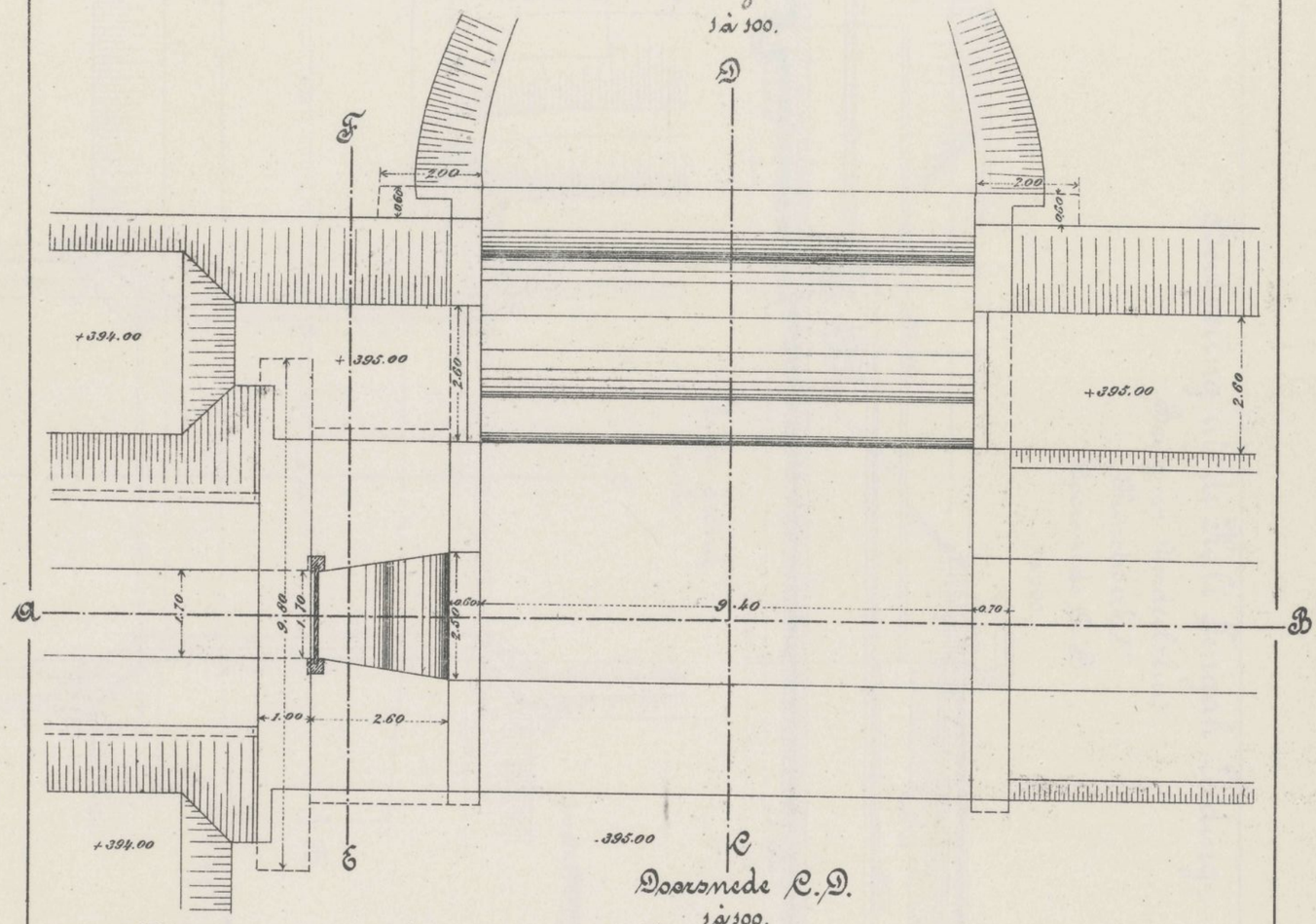
Doorsnede A.B.

1 à 100.



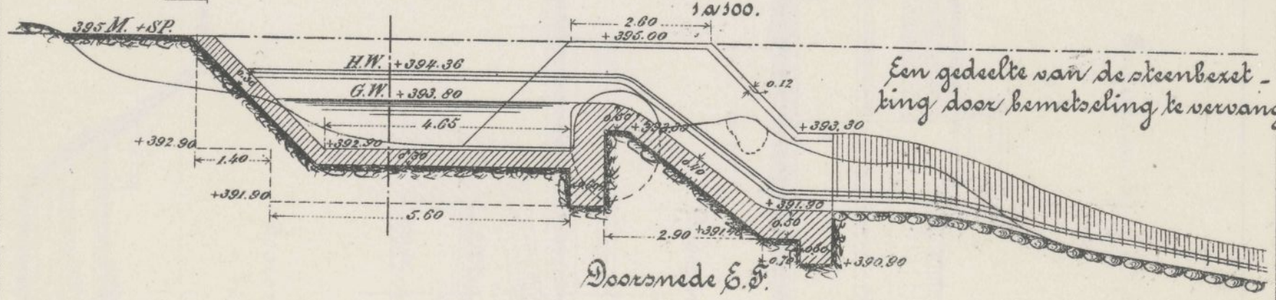
Platte-grond.

1 à 100.



Doorsnede C.D.

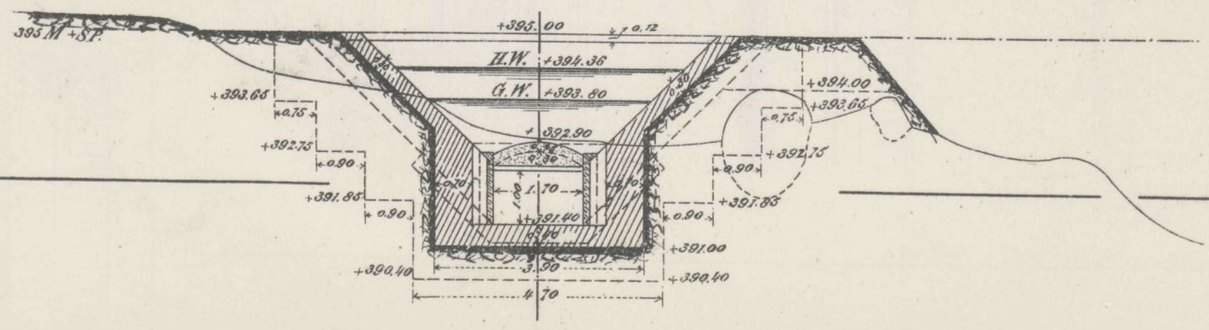
1 à 100.



Een gedeelte van de steenbezetting door bemetseling te vervangen.

Doorsnede E.F.

1 à 100.



Plaat N°90.

Bevloeiïng uit de Kali Tengah Leiding.

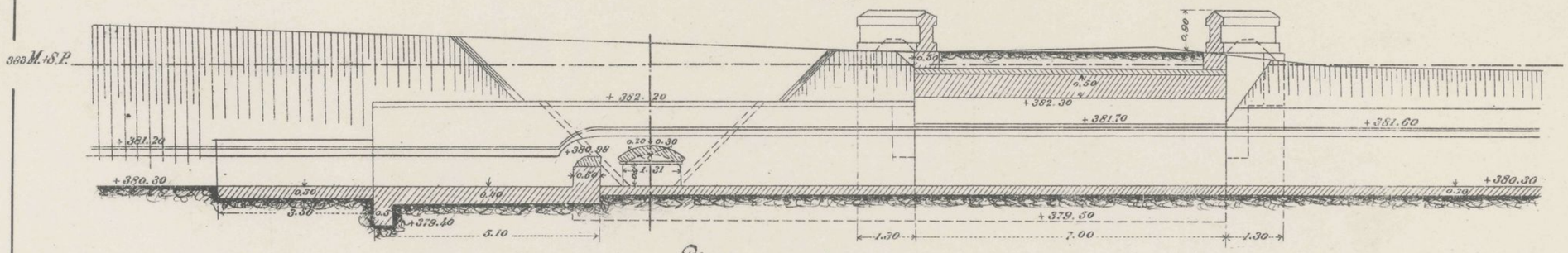
Brug en Verdeelsluis.

Kunstwerk V

Doorsnede A.B.

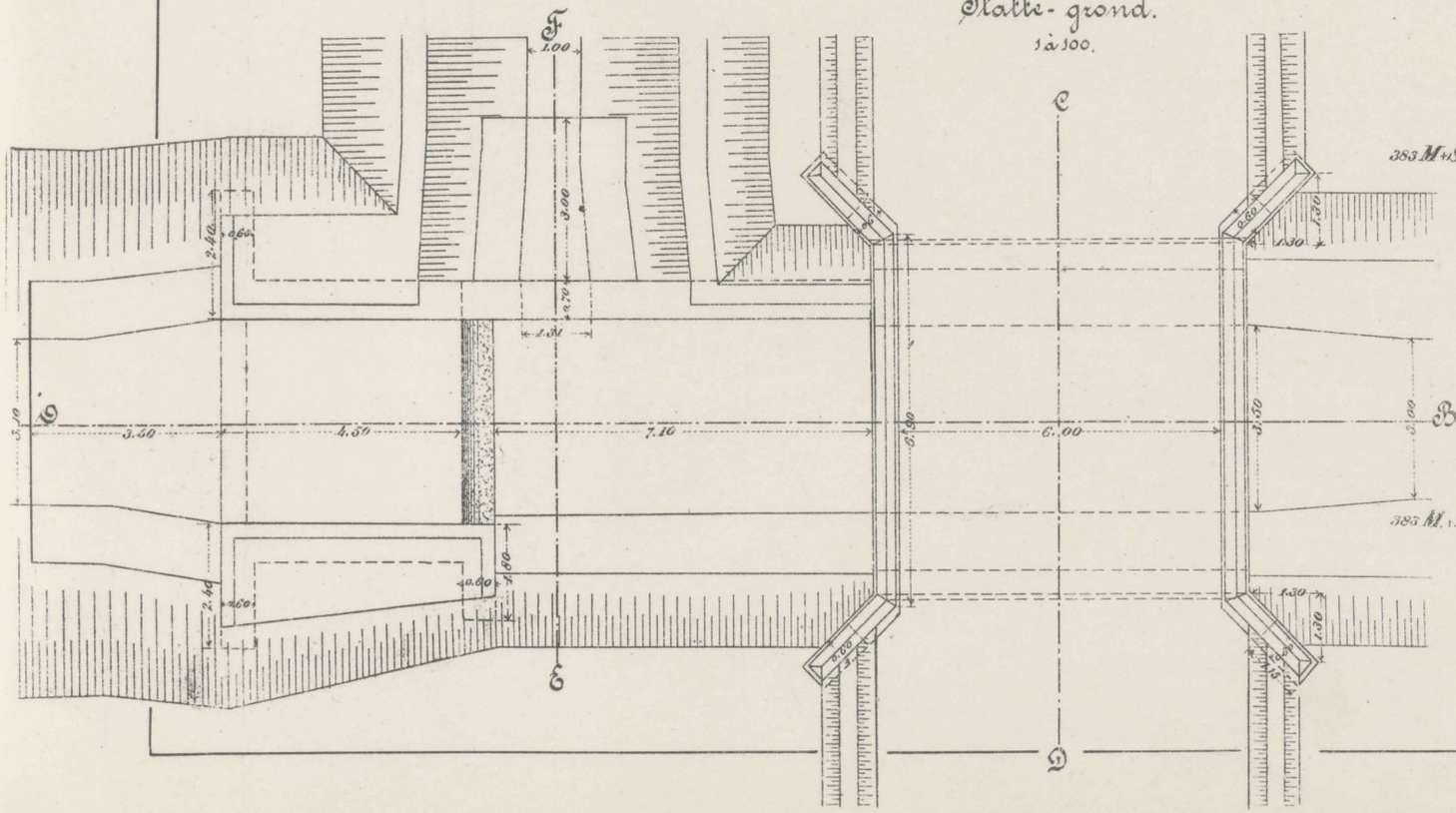
1 à 100.

Toegestaan bij G.B. dd. 8 Juni 1901 N.° 9.



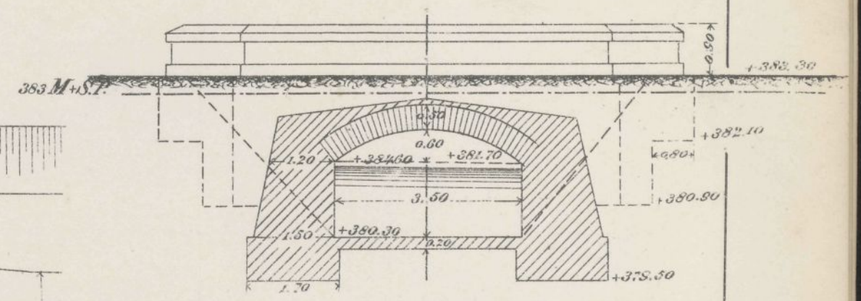
Platte-grond.

1 à 100.



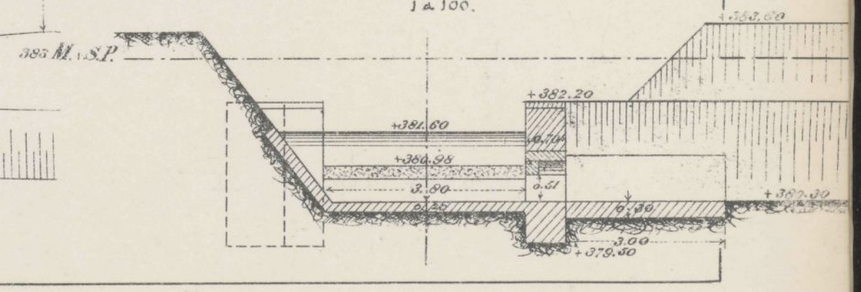
Doorsnede C.D.

1 à 100.



Doorsnede E.F.

1 à 100.

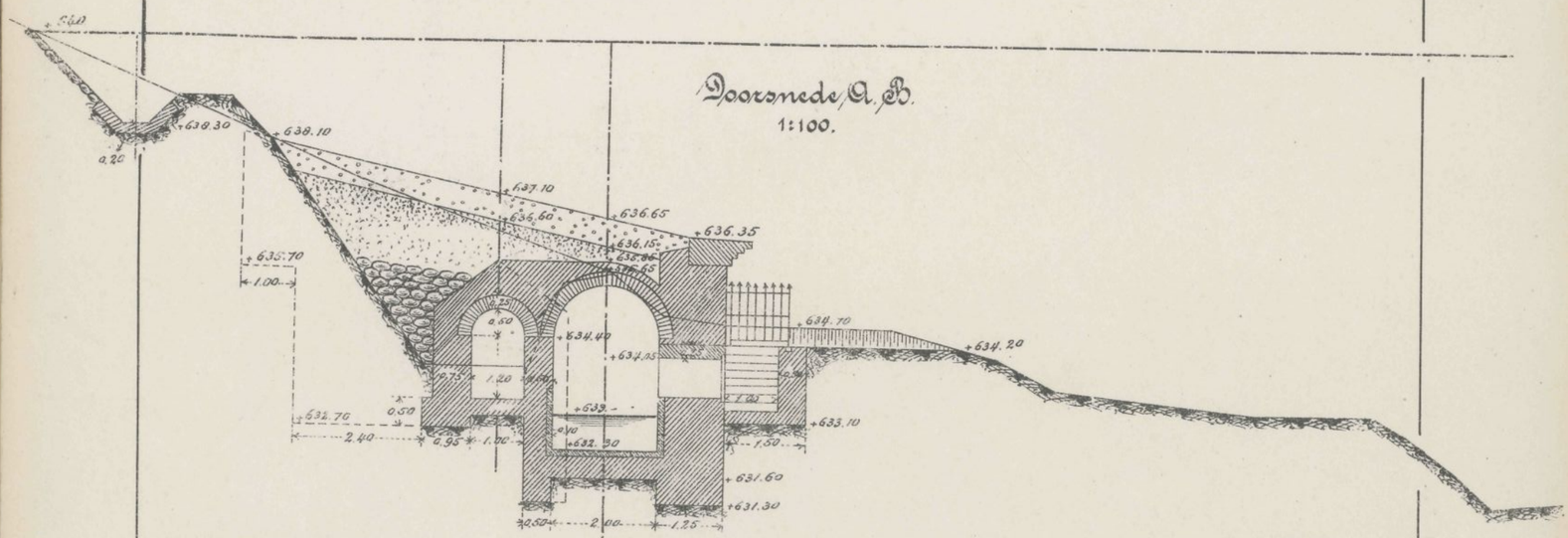


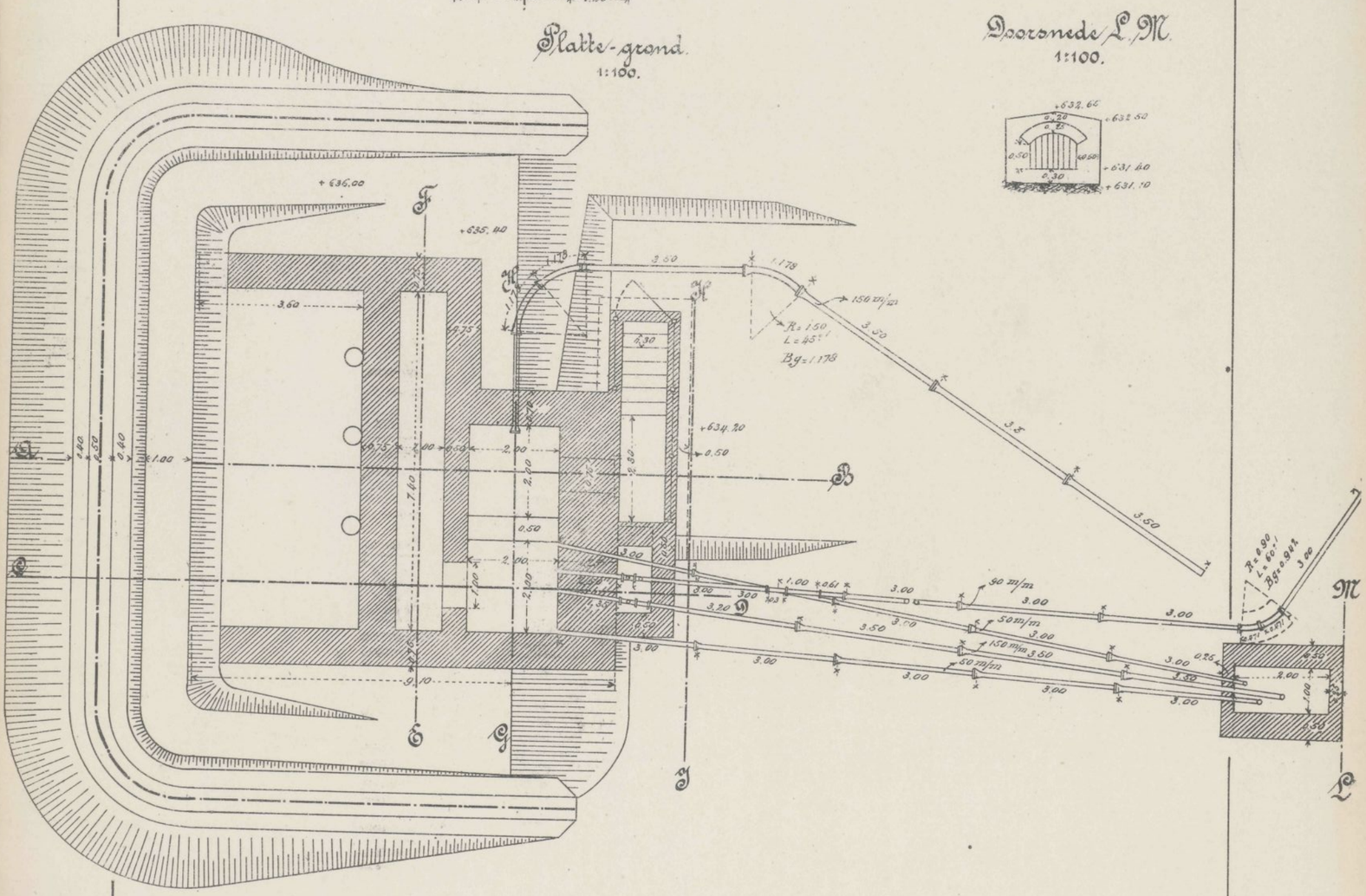
Drinkwatervoorziening van Magetan.

Bronreservoir.

Kunstwerk 1.

Blad I.





Tegestaan bij G. B. dd: 29 Mei 1904 n°: 18.

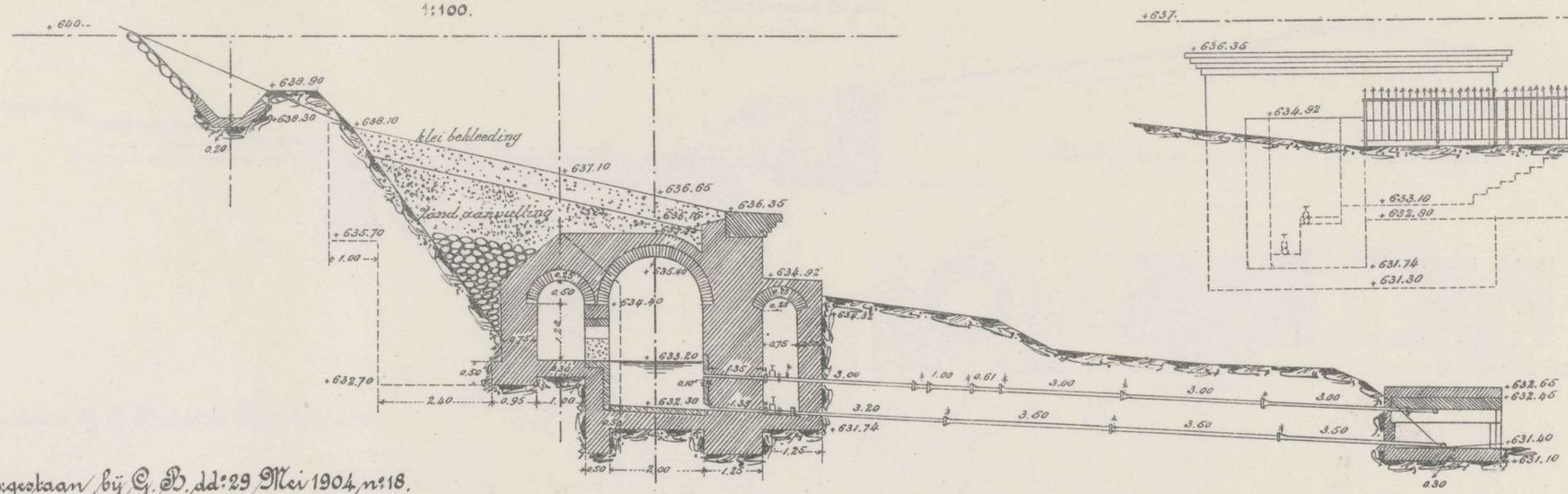
Drinkwatervoorziening van Magetan.

Bladl II

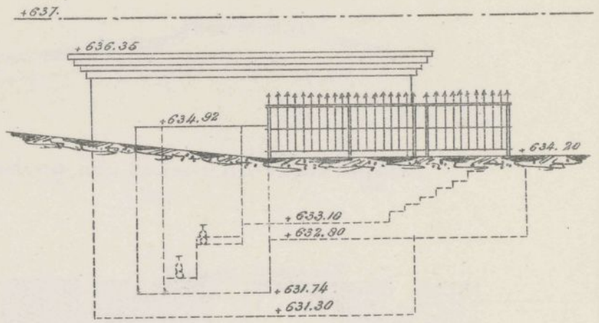
Bronreservoir.

Kunstwerk 1.

Doorsnede C. D.
1:100.

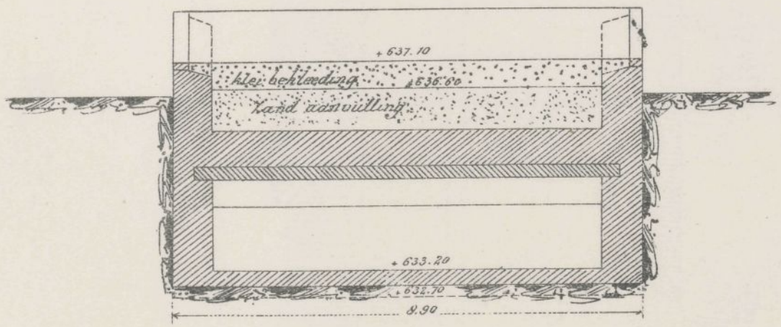


Doorsnede J. K.
1:100.

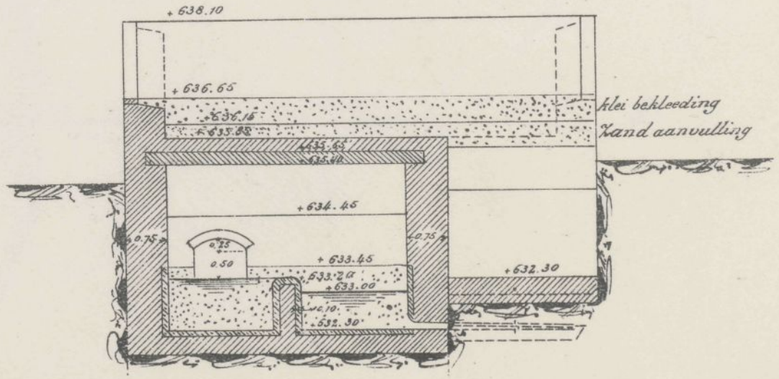


Toegestaan bij G. B. dd: 29 Mei 1904, n: 18.

Doorsnede E. F.
1:100.



Doorsnede G. H.
1:100.

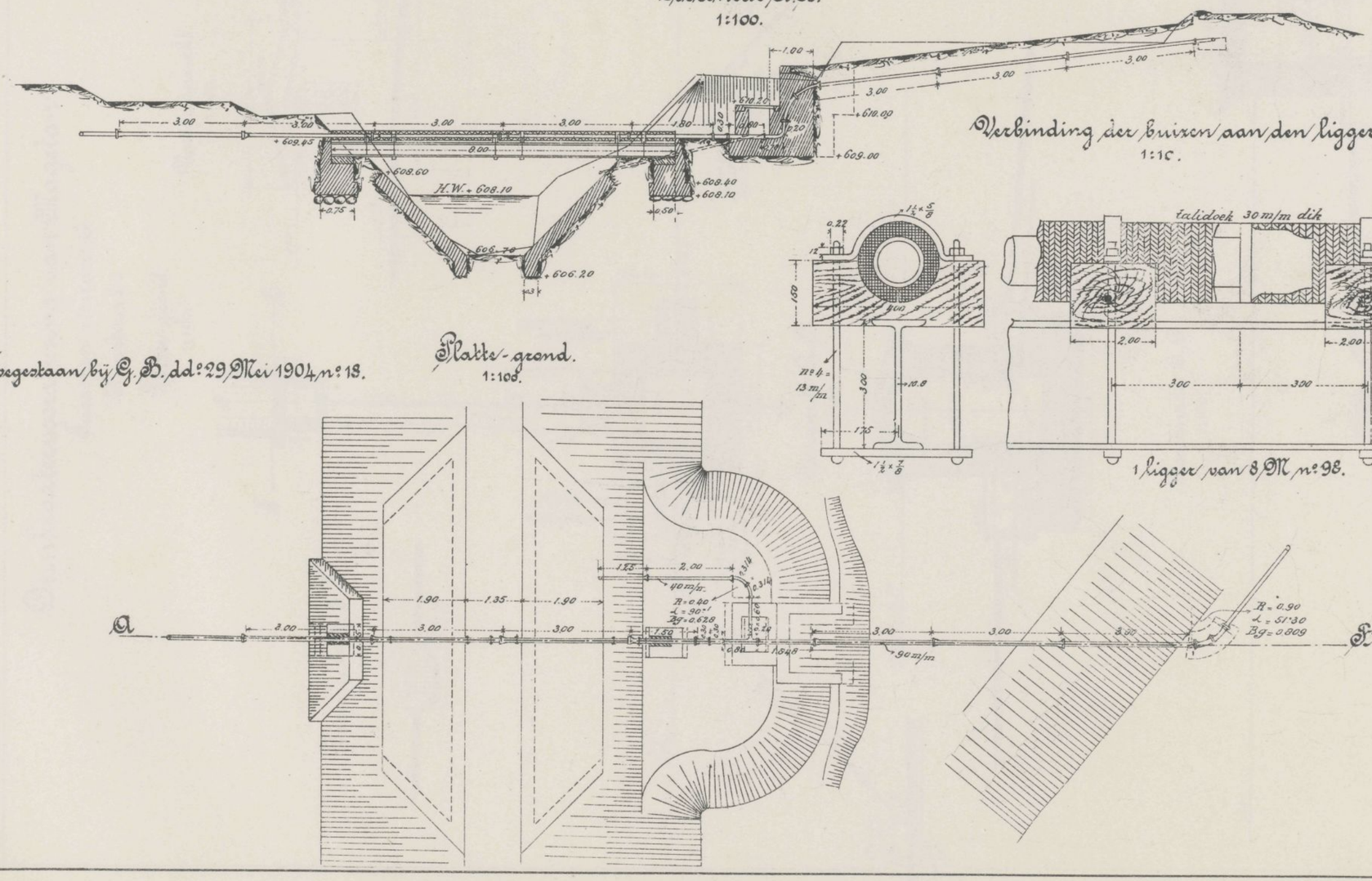


Drinkwatervoorziening van Magetan.

Blad III.

Aquaduct.

Kunstwerk 2.



Toegestaan bij G.B. dd° 29 Mei 1904 n° 13.

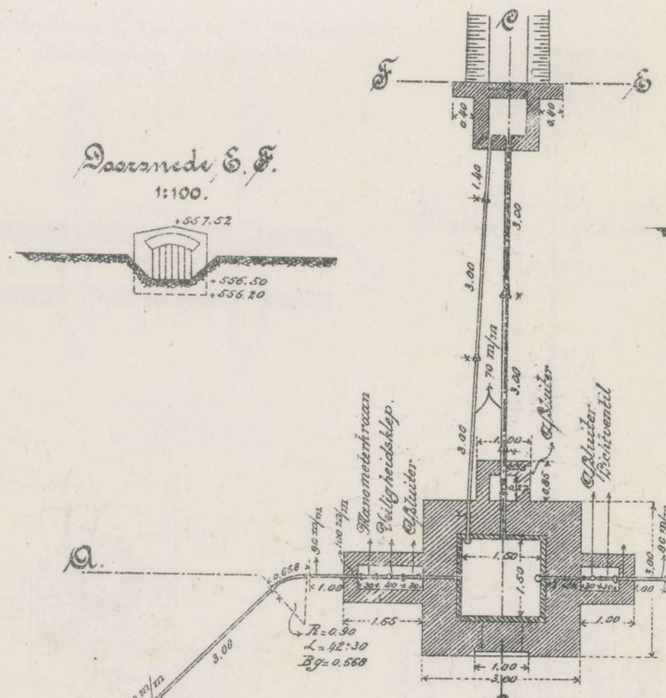
Drinkwatervoorziening van Magetan.

Blad IV.

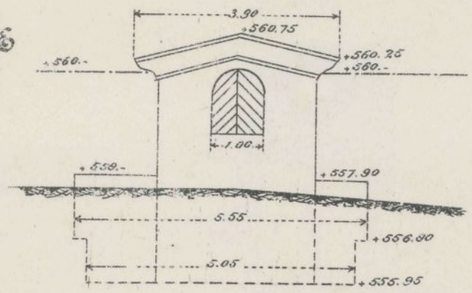
Tusschen reservoir A.

Kunstwerk 3.

Platte-grond.
1:100.

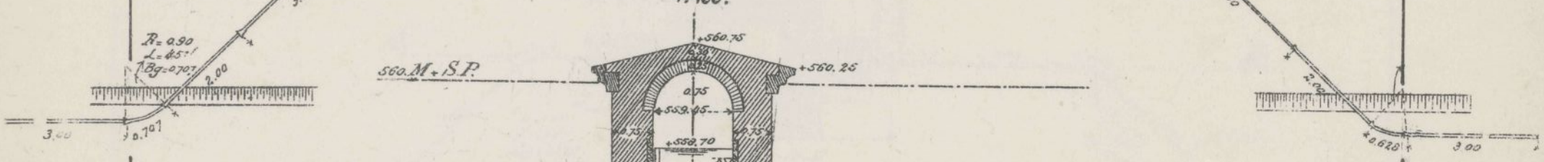


Voor-aanzicht.
1:100.

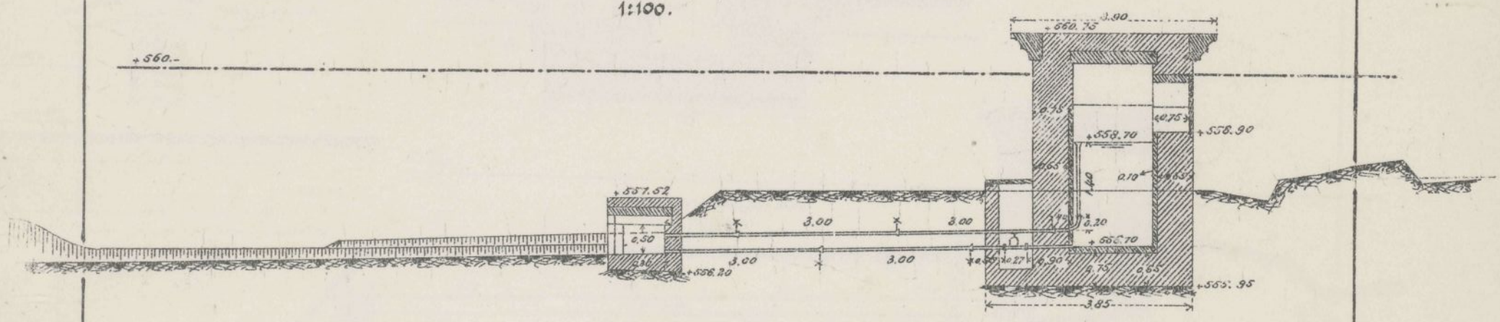


Doorsnede E.F.
1:100.

Doorsnede A.B.
1:100.



Doorsnede C.D.
1:100.



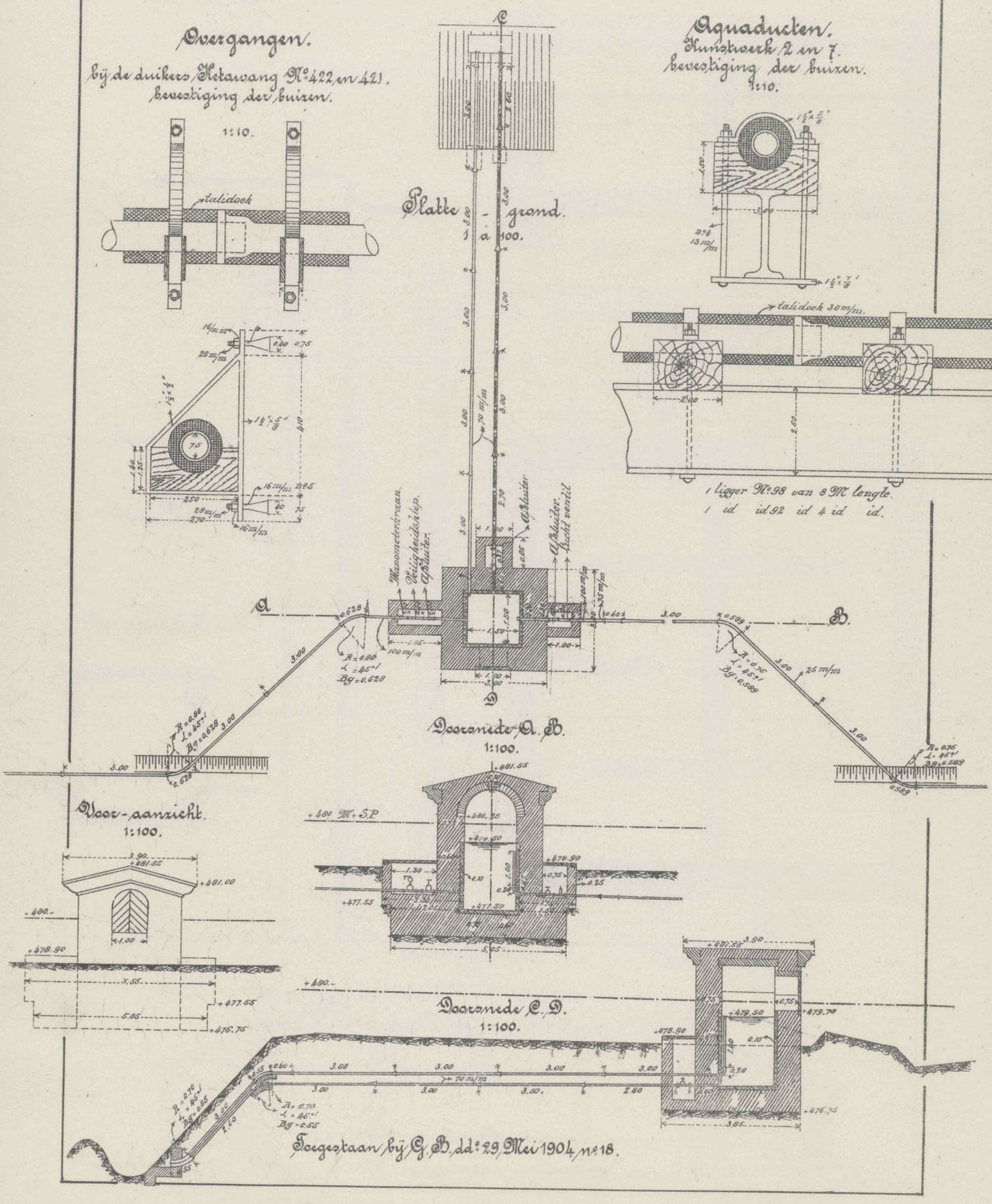
Toegestaan bij G.B. 29 Mei 1904 n° 18.

Drinkwatervoorziening van Magetan.

Blad V.

Tusschen reservoir B.

Kunstwerk 4.



Drinkwatervoorziening van Magetan.

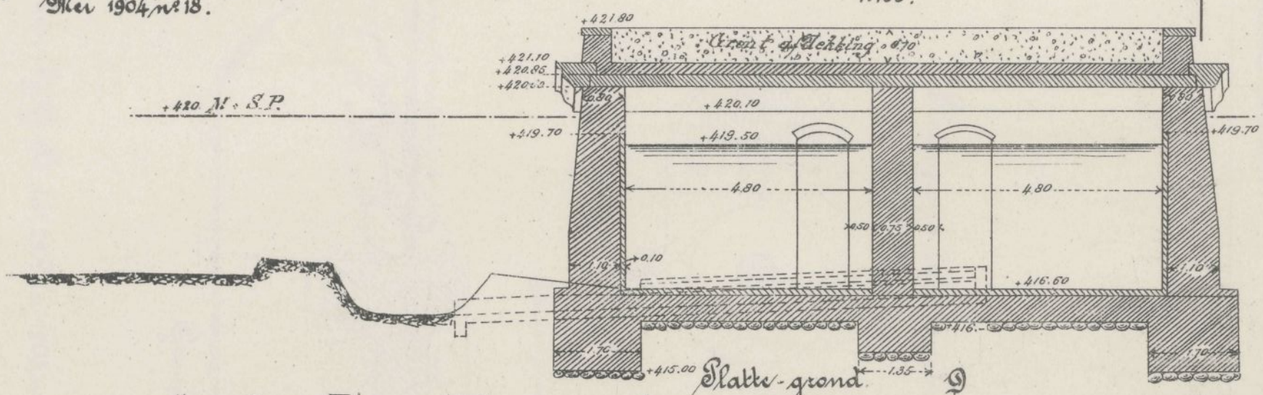
Blad VI.

Verzamel reservoir

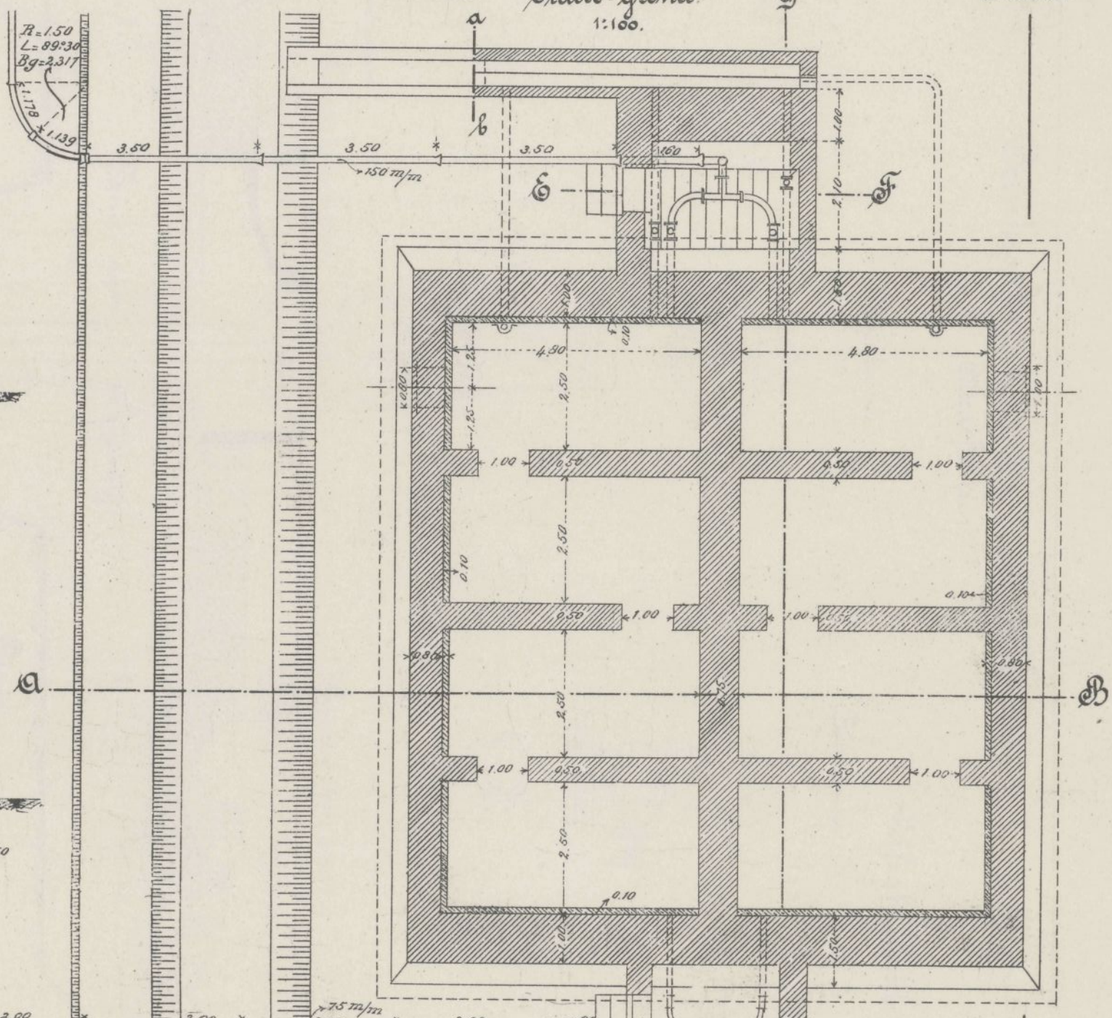
Kunstwerk 5.

Toegestaan bij G. B. dd° 29 Mei 1904, n° 18.

Doorsnede A. B.
1:100.

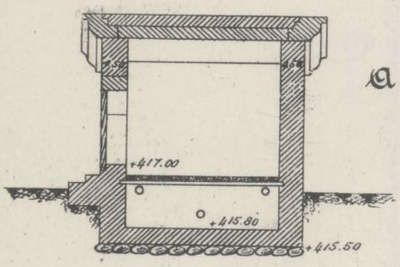


Platte-grond
1:100.

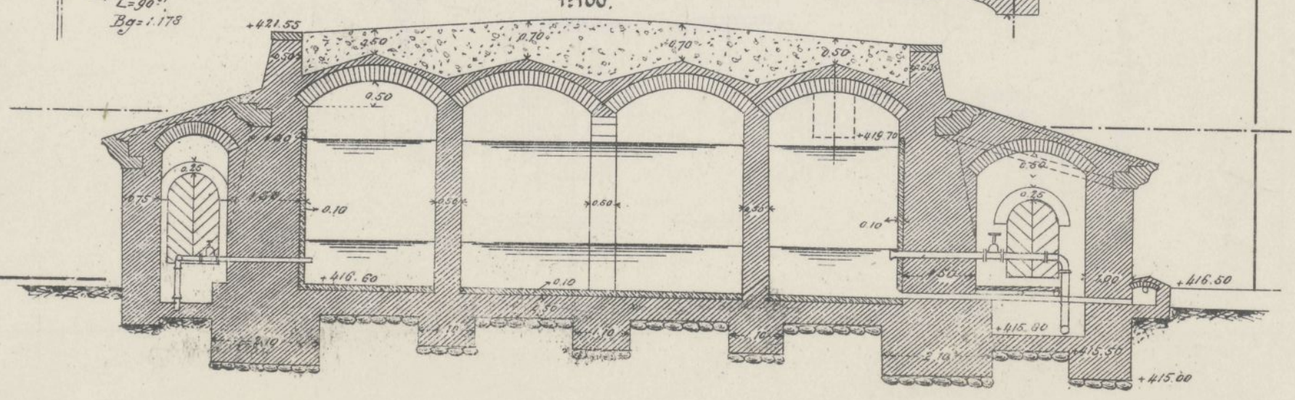


Doorsnede a. b.
1:100.

Doorsnede E. F.
1:100.



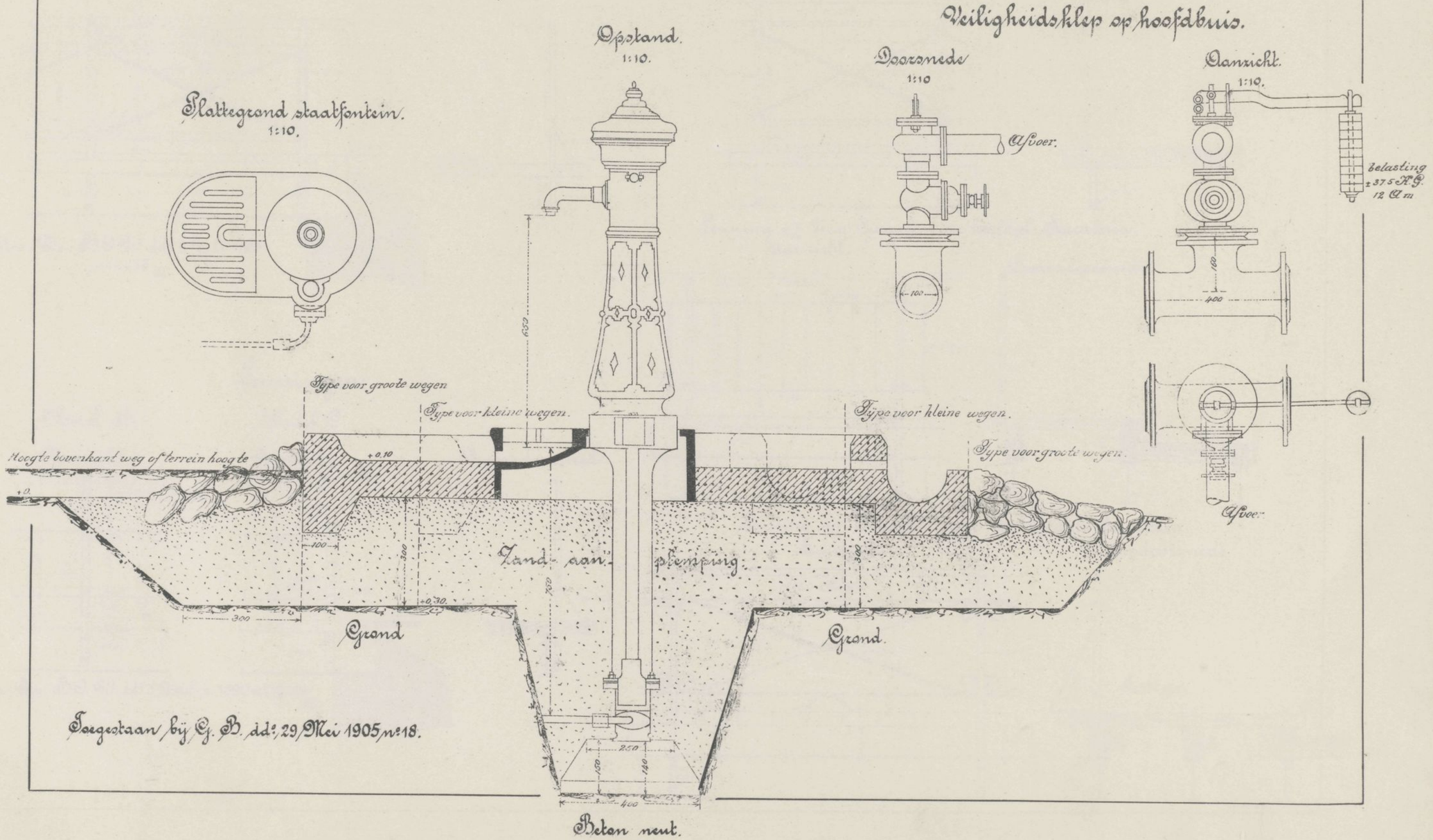
Doorsnede C. D.
1:100.



Drinkwatervoorziening van Magetan.

Staatfontein.

Blad VII.

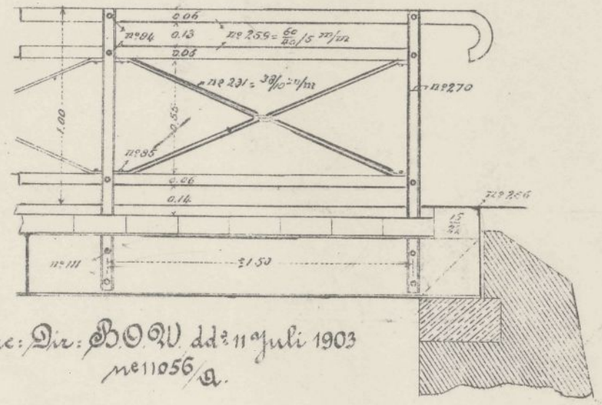


Toegestaan bij G. B. dd: 29/Mei 1905 no: 18.

Leuningen model A.

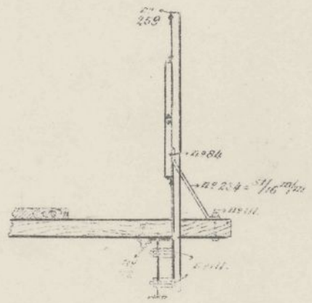
Voor bruggen van 5.50 M. en 4 M tusschen de leuningen.

Aanzicht.



Circ: Dir: B.O.W. dd: 11 Juli 1903 nº 11056/a.

Dwarsdoorsnede.

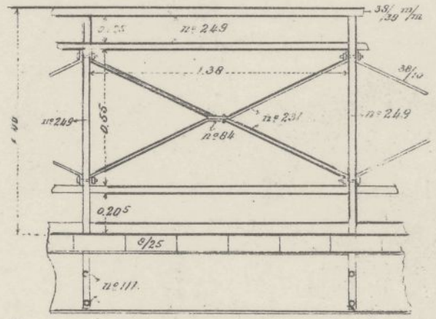


Ijzeren leuningen.

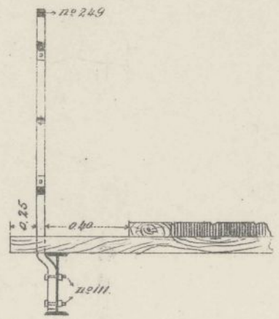
~~Pl. 100.~~

Leuning v/d brug Kepandjen ter hoofdpl. Soerabaia.

Aanzicht

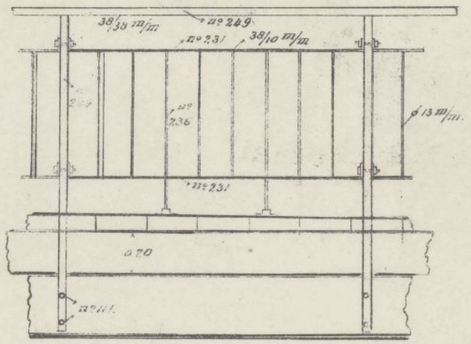


Dwarsdoorsnede.

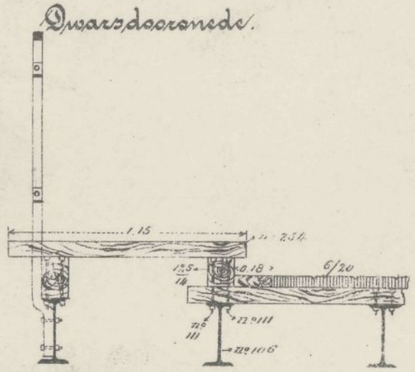


Leuning v/d brug Djagalan ter hoofdpl: Soerabaia.

Aanzicht.



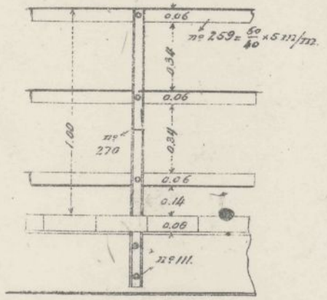
Dwarsdoorsnede.



Leuningen.

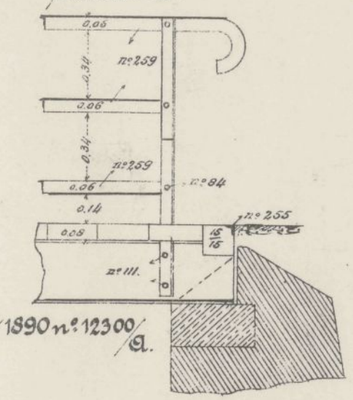
Model B.

Aanzicht.



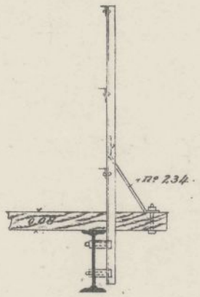
Model C.

Aanzicht.



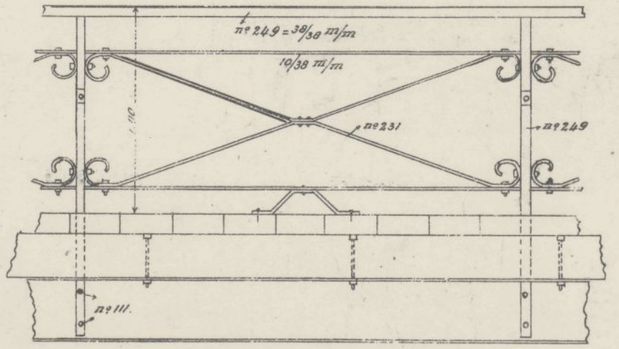
Circ: Dir: B.O.W. dd: 5 October 1890 nº 12300/a.

Dwarsdoorsnede

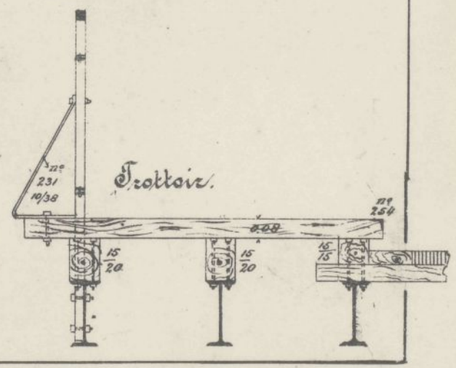


Leuning v/d Roodebrug ter hoofdplaats Soerabaia.

Aanzicht.

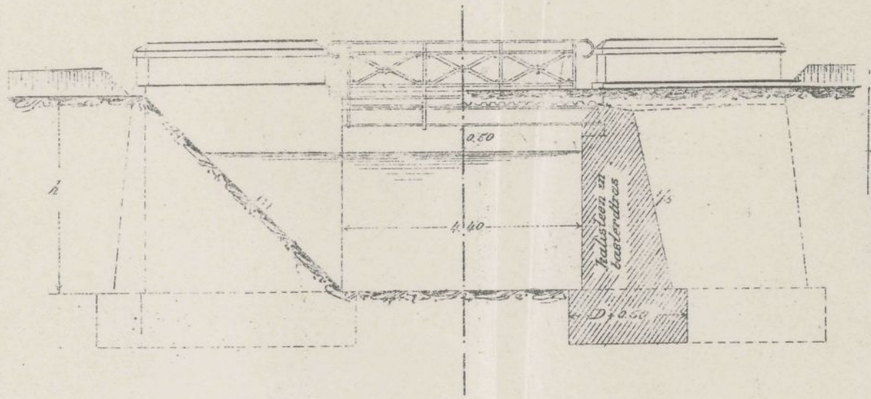


Dwarsdoorsnede

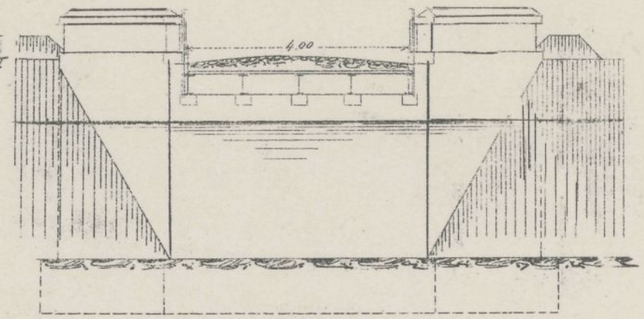


Ontwerp van een brug met steenen landhoofden ijzeren liggers in zores ijzeren dek.

Doorsnede E.B.C.A.
1:100.



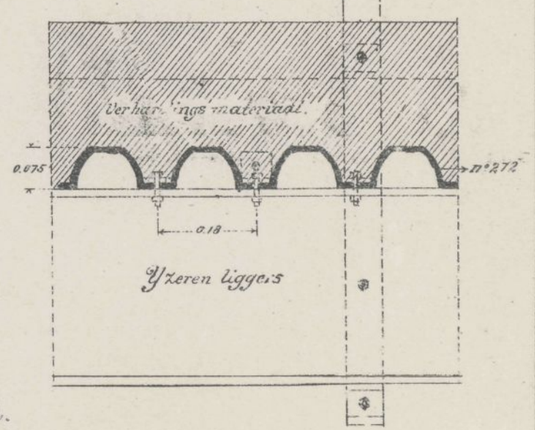
Doorsnede A.C.
1:100.



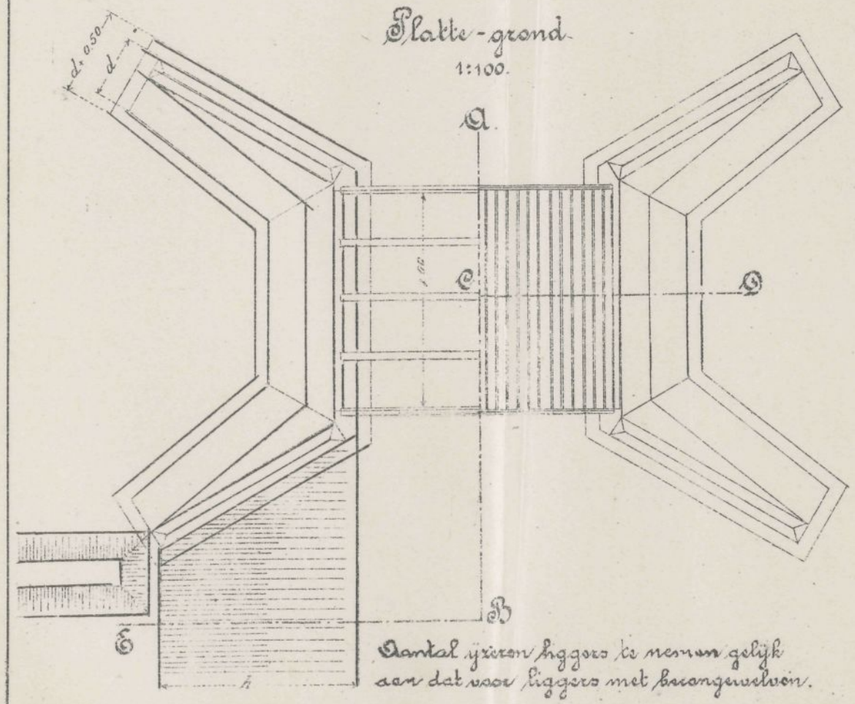
D = 0.47 h
d = max. = 2/3 × 0.47 h
d = min. = 1/2 h + 0.40

Boven en tusschen regels v/d leuningen.
L. ijzer N° 259.
Diagonalen v/d leuningen
plaat staafijzer N° 231.

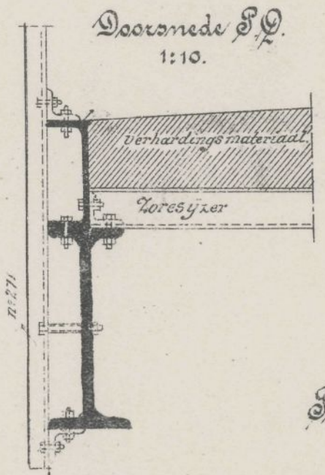
Detail
Doorsnede R.S.
1:10.



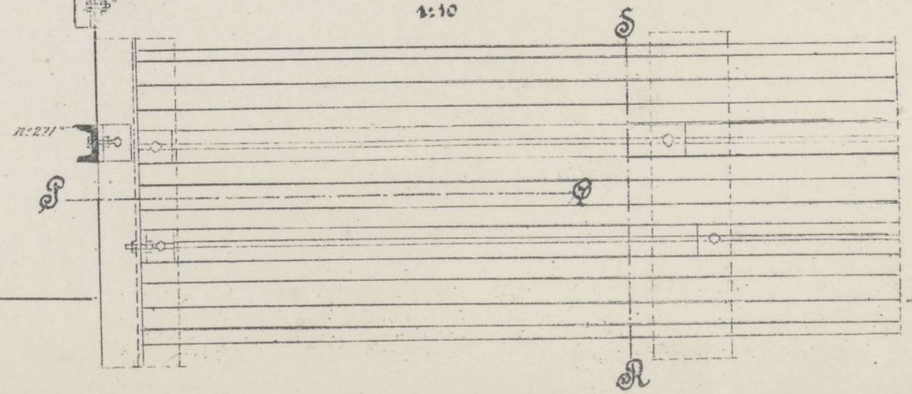
Platte-grond
1:100.



Doorsnede F.G.
1:10.



Platte-grond
1:10



Aantal ijzeren liggers te nemen gelijk aan dat voor liggers met kraangewelven.