GREAT WESTERN RAILWAY.

PLANS AND SECTIONS.

NOVEMBER 1903.

JAMES C. INGLIS.
Engineer.

19

GREAT WESTERN,
LONDON & NORTH WESTERN
AND
RHYMNEY RAILWAY COMPANIES.

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PLANS AND SECTIONS.

NOVEMBER, 1906.

Engineers : W. W. GRIERSON, E. B. THORNHILL, W. G. GRIFFITHS, — In respect of Railways Nos. 1, 2, 3, 4, 5, 6 & 7 and Lands.

Consulting Engineer to the Great Western Railway Company: JAMES C. INGLIS.

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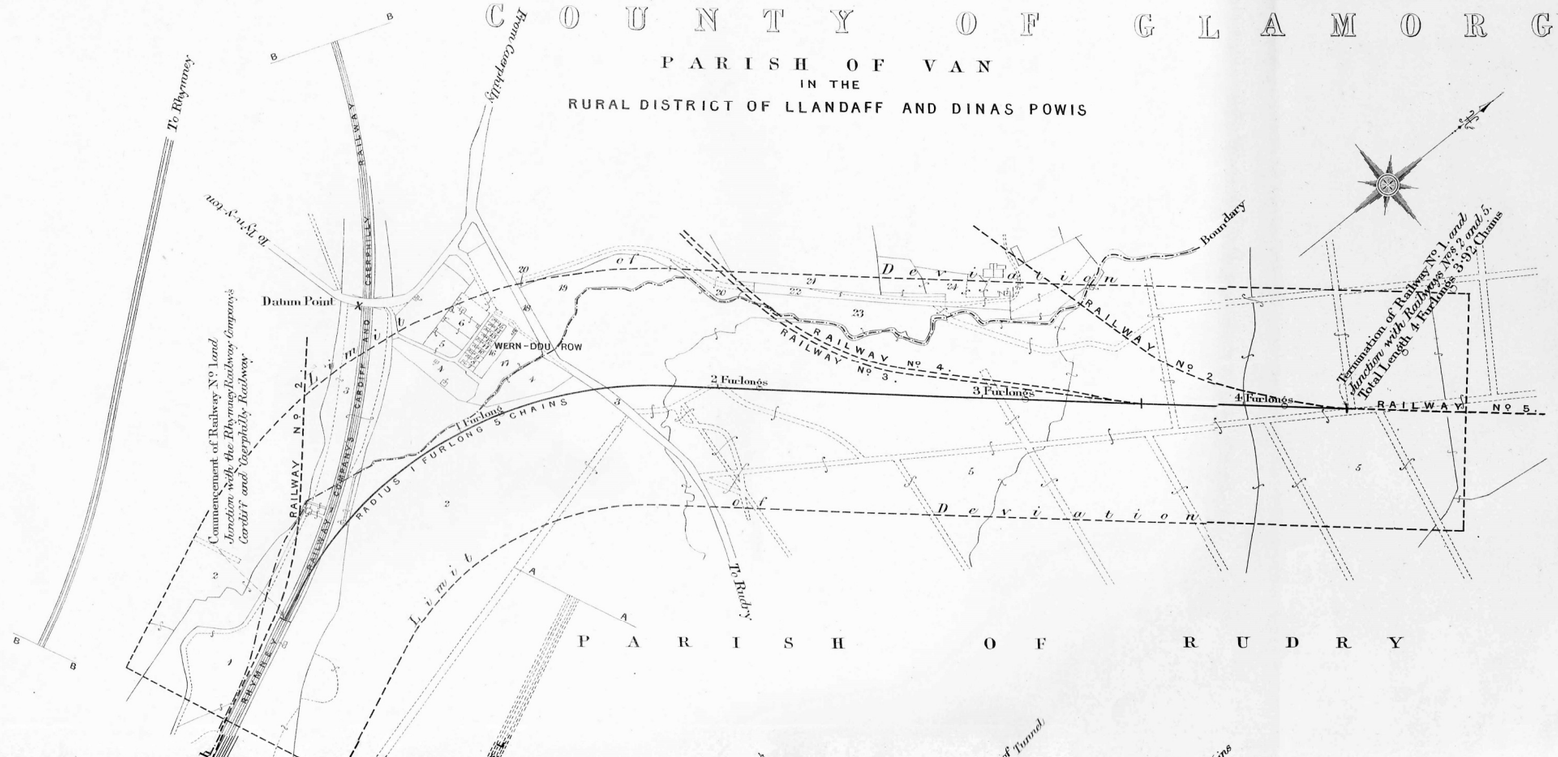
GREAT WESTERN, LONDON AND NORTH WESTERN AND RHYMNEY RAILWAY COMPANIES.

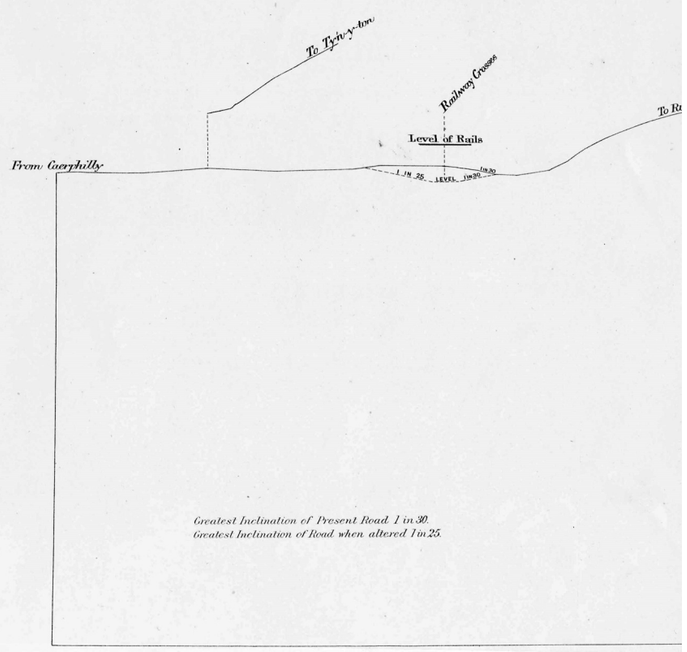
RAILWAY No 1.

Sheet No 1.
GREAT WESTERN, LONDON AND NORTH WESTERN AND RHYMNEY RAILWAY COMPANIES.
RAILWAY No 1.
SESSION 1907.

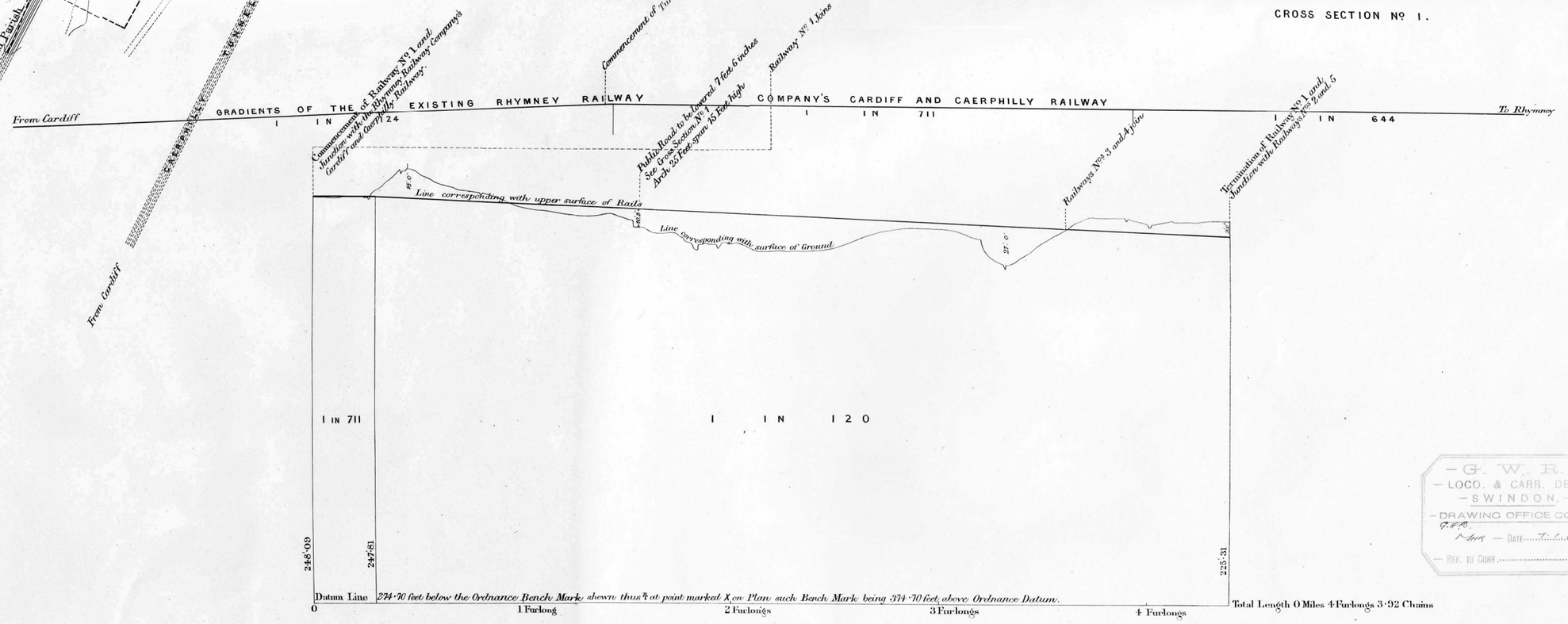
COUNTY OF GLAMORGAN

PARISH OF VAN
IN THE
RURAL DISTRICT OF LLANDAFF AND DINAS POWIS





CROSS SECTION No 1.



Horizontal Scale for Plan Sections and Cross Section



Vertical Scale for Sections and Cross Section



THOS. KELL & SON, LITH. 40 KING STREET, COVENT GARDEN.

— G. W. R. —
— LOCO. & CARR. DEP. —
— SWINDON. —
— DRAWING OFFICE COPY —
— DATE 7.1.08 —
— REF. TO CORR. —

GREAT WESTERN, LONDON AND NORTH WESTERN AND RHYMNEY RAILWAY COMPANIES.

RAILWAY Nº 2

COUNTY OF GLAMORGAN

PARISH OF VAN

IN THE

RURAL DISTRICT OF LLANDAFF AND DINAS POWIS

Sheet Nº 2.
GREAT WESTERN, LONDON AND NORTH WEST
AND RHYMNEY RAILWAY COMPANIES.
RAILWAY Nº 2.
SESSION 1907.

WERN-DDU COAL AND BRICK WORKS

To Caerphilly

From Tre-boeth

From Tre-y-tan

Commencement of Diversion of Road

Railway Nº 2 crosses

Termination of Diversion of Road

Railway Nº 3 crosses Railways Nº 2 and 4 cross

LEVEL OF RAILS

LEVEL OF RAILS RAILWAY Nº 2

LEVEL

LEVEL OF RAILS

RAILWAYS Nº 3 & 4.

1 in 25

1 in 30

To Caerphilly

From Rudry

Greatest Inclination of Present Road 1 in 17.

Greatest Inclination of Present Road 1 in 28.
Greatest Inclination of Road when altered 1 in 25.

CROSS SECTION Nº 2.

CAERPHILLY TUNNEL

3 Furlongs

RADIUS 1 FURLONG 2 CHAINS

4 Furlongs

5 Furlongs

6 Furlongs

RADIUS 1 FURLONG 2 CHAINS

Commencement of Road Diversion

Termination of Road Diversion

Diversion

Diversion

Diversion

RHYMNEY RAILWAY No 1

RHYMNEY RAILWAY No 4

CARDIFF AND CAERPHILLY & RHYMNEY RAILWAYS

CARDIFF & RHYMNEY RAILWAY COMPANY'S

RHYMNEY RAILWAY COMPANY'S

Boundary

Boundary

Rural District & Parish

From Rudry

From Tre-y-tan

From Tre-boeth

Commencement of Railway Nº 2 & Junction with Rhymney Railway Company's & Cardiff & Caerphilly Railway

Termination of Railway Nº 2 & Junction with Railways Nºs 1 and 5
Total Length 0 Miles 6 Furlongs 8 Chains

RAILWAY No 1

RAILWAY No 5

RADIUS 1 FURLONG 2 CHAINS

RADIUS 1 FURLONG 2 CHAINS

RADIUS 1 FURLONG 2 CHAINS

PARISH OF RUDRY

Rural District & Parish

From Cardiff

To Rhymney

GRADIENTS OF THE EXISTING RHYMNEY RAILWAY COMPANY'S CARDIFF AND CAERPHILLY RAILWAY

1 IN 124

1 IN 711

1 IN 644

Commencement of Railway Nº 2 & Junction with the Rhymney Railway Company's Cardiff & Caerphilly Railway

Diversion of Road Crosses See Cross Section Nº 3.
Public Road to be diverted
See Cross Section Nºs 2 & 3.

Rhymney Railway Company's Cardiff & Caerphilly Railway
Arch 25 Feet 6 Inches Span 14 Feet 6 Inches high
Railway Nº 2 joins

Public Road to be raised 17 Feet
See Cross Section Nº 2
Arch 23 Feet Span 15 Feet high

Termination of Railway Nº 2 & Junction with Railways Nºs 1 & 5

Line corresponding with Surface of Ground

Line corresponding with Upper Surface of Rails

27.6'

49.6'

17.6'

34.6'

LEVEL OF RAILS

1 IN 711

1 IN 124

1 IN 90

LEVEL

1 IN 66

1 IN 120

248.65

248.87

248.62

224.00

225.00

225.08

225.31

Datum Line the same as for Railway Nº 1

Horizontal Scale for Plan Sections and Cross Sections.

Links 100 50 0 1 2 3 4 5 10 20 Chains

Vertical Scale for Sections and Cross Sections.

20 10 5 0 10 20 30 50 100 200 Feet

THOS. BELL & SON, LITH. 40 KING STREET COVENT GARDEN

0 1 Furlong 2 Furlongs 3 Furlongs 4 Furlongs 5 Furlongs 6 Furlongs

Total Length 0 miles 6 furs. 8 chs.

Railway Nº 2 crosses

Commencement of Diversion of Road

Termination of Diversion of Road

1 in 24 Level 1 in 18

LEVEL OF RAILS

Greatest Inclination of Diversion of Road 1 in 18

CROSS SECTION Nº 3.

GREAT. WESTERN, LONDON AND NORTH WESTERN AND RHYMNEY RAILWAY COMPANIES.

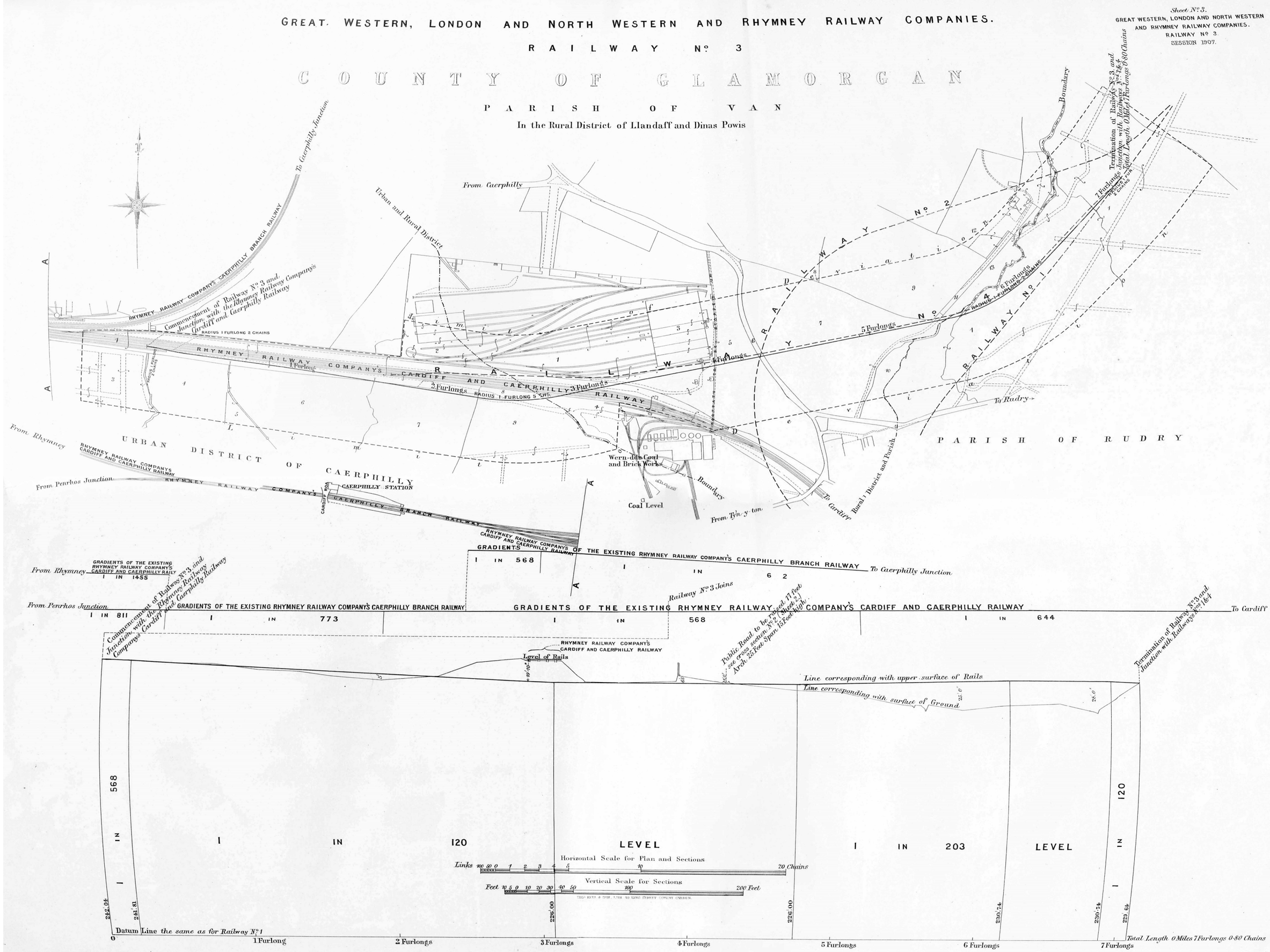
RAILWAY Nº 3

COUNTY OF GLAMORGAN

PARISH OF VAN

In the Rural District of Llandaff and Dinas Powis

Sheet Nº 3.
GREAT WESTERN, LONDON AND NORTH WESTERN AND RHYMNEY RAILWAY COMPANIES.
RAILWAY Nº 3.
SESSION 1907.



GREAT WESTERN, LONDON AND NORTH WESTERN AND RHYMNEY RAILWAY COMPANIES.

RAILWAY Nº 4.

Sheet Nº 4.
GREAT WESTERN, LONDON AND NORTH WESTERN AND RHYMNEY RAILWAY COMPANIES.
RAILWAY Nº 4.
SESSION 1907.

COUNTY OF GLAMORGAN

PARISH OF VAN

In the Rural District of Llandaff and Dinas Powis.

Urban and Rural District

From Caerphilly

Commencement of Railway No 4 and Junction with the Rhymney Railway Company's Cardiff and Caerphilly Railway

RHYMNEY RAILWAY COMPANY'S CARDIFF AND CAERPHILLY RAILWAY

1 Furlong RADIUS 1 FURLONG 5 CHAINS

2 Furlongs

3 Furlongs

4 Furlongs RADIUS 1 FURLONG 2 CHAINS

5 Furlongs RADIUS 1 FURLONG 5 CHAINS

Railway No 4 Deviation

Railway No 4 joins Railway Nos 1 and 3 Junction with Railway's Nos 1 and 3 Total Length of Miles 3 Furlongs 3 80 Chains

Boundary

URBAN DISTRICT OF CAERPHILLY

Wern-ddu Coal and Brick Works

Coal Level

Boundary

To Cardiff

From Tyn-y-ton

To Rudry

Rural District & Parish

PARISH OF RUDRY

RHYMNEY RAILWAY COMPANY'S CAERPHILLY BRANCH RAILWAY

To Caerphilly Junction

CAERPHILLY STATION

CARDIFF ROAD

From Rhymney

GRADIENTS OF THE EXISTING RHYMNEY RAILWAY COMPANY'S CAERPHILLY BRANCH RAILWAY

1 IN 568 | 1 IN 62

To Caerphilly Junction

Railway No 4 joins

Commencement of Railway No 4 and Junction with the Rhymney Railway Company's Cardiff and Caerphilly Railway

CAERPHILLY STATION

GRADIENTS OF THE EXISTING RHYMNEY RAILWAY COMPANY'S CAERPHILLY BRANCH RAILWAY

From Rhymney

1 IN 773

GRADIENTS OF THE EXISTING RHYMNEY RAILWAY COMPANY'S CARDIFF AND CAERPHILLY RAILWAY.

1 IN 568 | 1 IN 644 | 1 IN 711

To Cardiff

From Rhymney Railway Company's Caerphilly Branch Railway

Public Road to be raised 17 Feet, see Cross Section Nº 2 (Sheet 2) Arch 23 Feet Span 15 Feet high

Termination of Railway No 4 and Junction with Railways Nos 1 and 3.

Line corresponding with upper surface of Rails

Line corresponding with surface of Ground

1 IN 644 | 1 IN 64 | LEVEL | 1 IN 203 | LEVEL | 1 in 120

244·00 | 244·54 | 226·00 | 226·00 | 230·74 | 230·74 | 229·64

Horizontal Scale for Plan and Sections.

Links 100 50 0 1 2 3 4 5 10 20 Chains

Vertical Scale for Sections

Feet 10 5 0 10 20 30 40 50 100 200 Feet

Datum Line *the same as for Railway Nº 1.*

0 | 1 Furlong | 2 Furlongs | 3 Furlongs | 4 Furlongs | 5 Furlongs

Total Length 0 Miles 5 Furlongs 3·80 Chains

GREAT WESTERN, LONDON AND NORTH WESTERN AND RHYMNEY RAILWAY COMPANIES.

RAILWAY Nº 5.

COUNTY OF GLAMORGAN

PARISH OF VAN
IN THE
RURAL DISTRICT OF LLANDAFF AND DINAS POWIS

Sheet Nº 5.
GREAT WESTERN, LONDON AND NORTH WESTERN AND RHYMNEY RAILWAY COMPANIES.
RAILWAY Nº 5.
SESSION 1907.

Rural District and Parish of Rudry

Boundary

From Caerphilly

Deviation

REFAIL HOUSE

CENTRE LINE OF DIVERSION OF FOOTPATH 3 FEET IN WIDTH

4 Furlongs

5 Furlongs TO BE DIVERTED

RADIUS 5 FURLONGS

FOOTPATH TO BE DIVERTED

Commencement of Diversion of Road

CENTRE LINE OF DIVERSION OF ROAD 20 FEET IN WIDTH AT SECTIONS

6 Furlongs TO BE DIVERTED

Termination of Diversion of Road

PEN-TWYN-GWYN

7 Furlongs

RADIUS 12 FURLONGS

1 Mile

To Garth Place

3 Furlongs

2 Furlongs

1 Furlong

Limit of Deviation

PANT-YSGAWEN

RAILWAY Nº 2.

RAILWAY Nº 1.

Commencement of Railway Nº 5 and Junction with Railways Nº 1 and 2.

PARISH OF RUDRY

Diversion of Road Commences

Diversion of Road Terminates

To Garth

To Garth Place

From Caerphilly

Greatest Inclination of Present Road 1 in 7.

SECTION OF ROAD TO BE DIVERTED.

Commencement of Diversion of Road

Termination of Diversion of Road

1 IN 22·7

1 IN 15

Greatest Inclination of Diversion of Road 1 in 15.

191'·41

206'·85

216'·71

SECTION OF DIVERSION OF ROAD

Commencement of Railway Nº 5 and Junction with Railways Nº 1 and 2.

Line corresponding with upper surface of Rails

Line corresponding with surface of Ground

Public Road

Public Road

41'. 0"

18'. 2"

45'. 0"

24'. 7"

225'·31

1 IN 120

Datum Line *the same as for Railway Nº 1.*

0 | 1 Furlong | 2 Furlongs | 3 Furlongs | 4 Furlongs | 5 Furlongs | 6 Furlongs | 7 Furlongs | 1 Mile

Horizontal Scale for Plan and Sections.

Links 100 50 0 1 2 3 4 5 10 20 Chains

Vertical Scale for Sections

Feet 10 5 0 10 20 30 40 50 100 200 Feet

THOS. BELL & SON, LITH. 29 KING STREET, COVENT GARDEN

GREAT WESTERN, LONDON AND NORTH WESTERN AND RHYMNEY RAILWAY COMPANIES.

RAILWAY Nº 5

Sheet Nº 6.
GREAT WESTERN, LONDON AND NORTH WESTERN AND RHYMNEY RAILWAY COMPANIES.
RAILWAY Nº 5.
SESSION 1907.

COUNTY OF GLAMORGAN

PARISH OF RUDRY

COUNTY OF MONMOUTH

PARISH OF MACHEN UPPER

1 Mile
1 Furlong
2 Furlongs
3 Furlongs
4 Furlongs
5 Furlongs
6 Furlongs
7 Furlongs
2 Miles

Footpath to be Diverted
Centre Line of Diversion of Footpath 3 Feet in width
Tir-Jenkins
Footpath
RADIUS 1 FURLONG 5 CHAINS
Centre Line of Diversion of Footpath 3 Feet in width
diverted
County and Parish Boundary
CENTRE LINE OF DIVERSION OF RIVER RHYMNEY 50 FEET IN WIDTH
RIVER RHYMNEY
Centre Line of Diversion of Footpath 3 Feet in width.
To Bassaleg
To Machen
From Machen
From Caerphilly
From Machen
BRECON AND MERTHYR JUNCTION RAILWAY
Commencement of Diversion of Road
Termination of Diversion of Road
Boundary
To Machen
Greenmeadow Inn
To Bedlan-gollen
To Bedlan-gollen
Brecon and Merthyr Tydfil Junction Railway
Commencement of Diversion of Road
Diversion of Road Commences
Diversion of Road Terminates
Diversion of Road
From Machen
Greatest Inclination of Present Road 1 in 7.
Commencement of Diversion of Road
Termination of Diversion of Road
1 in 8
Greatest Inclination of Diversion of Road 1 in 8.

SECTION OF ROAD TO BE DIVERTED

SECTION OF DIVERSION OF ROAD

Line corresponding with upper surface of Rails
Line corresponding with surface of Ground
43' 0"
15' 0"
27' 0"
Brecon and Merthyr Tydfil Junction Railway
Arch. 25 Feet. 6 Inches Span 14 Feet. high
River Rhymney
Arch. 58 Feet. Span
20 Feet. high.
Public Road
Arch. 35 Feet. Span 16 Feet high
23' 0"
18' 9"
73' 0"
61' 0"
75' 0"
Level of Rails
146' 31
146' 31
1 IN 120
LEVEL
1 IN 120

Datum Line *the same as for Railway Nº 1*

1 Mile | 1 Furlong | 2 Furlongs | 3 Furlongs | 4 Furlongs | 5 Furlongs | 6 Furlongs | 7 Furlongs | 2 Miles

Horizontal Scale for Plan and Sections.
Links 100 50 0 1 2 3 4 5 10 20 Chains

Vertical Scale for Sections.
Feet 10 5 0 10 20 30 40 60 100 200 Feet

THOS. BELL & SON, LITH. 10 LONG STREET COVENT GARDEN.

GREAT WESTERN, LONDON AND NORTH WESTERN AND RHYMNEY RAILWAY COMPANIES.

RAILWAY Nº 5

COUNTY OF MONMOUTH

Sheet Nº 7.
GREAT WESTERN, LONDON AND NORTH WESTERN AND RHYMNEY RAILWAY COMPANIES.
RAILWAY Nº 5.
SESSION 1907.

PARISH OF BEDWAS

PARISH OF MACHEN

PARISH OF UPPER

From Blackwood

From Redbrook Houses

From Caerphilly

Parish

Boundary

Deviation

CENTRE LINE OF DIVERSION OF FOOTPATH STEETH WIDTH

2 Furlongs

3 Furlongs

4 Furlongs

5 Furlongs

6 Furlongs

7 Furlongs

1 Furlong 8 CHAINS RADIUS

TUNNEL 2160 YARDS

FOOTPATH TO BE DIVERTED

FOOTPATH TO BE STOPPED UP

BRECON AND MERTHYR TYDFIL JUNCTION RAILWAY

BRECON AND MERTHYR TYDFIL JUNCTION RAILWAY (LOOP LINE)

To Pen Llwyn

Railway Crosses

LEVEL

1 in 10

1 in 13·5

Level of Rails

Brecon and Merthyr Tydfil Junction Railway

2 Miles

3 Miles

Public Road

From Redbrook Houses

Greatest Inclination of Present Road 1 in 13·5
Greatest Inclination of Road when altered 1 in 10.

CROSS SECTION Nº 4.

Brecon and Merthyr Tydfil Junction Railway (Loop Line)
Arch 25 Feet 6 Inches span 14 Feet high.

Public Road to be raised 1 Feet 6 Inches
See Cross Section Nº 4.

Brecon and Merthyr Tydfil Junction Railway

Line corresponding with surface of Ground

Line corresponding with upper surface of Rails

80'·0"

9'·6"

17'·6"

32'·9"

80'·0"

33'·0"

170'·62

Level of Rails

T U N N E L 2160 Y A R D S

I IN 120

I IN 210

Horizontal Scale for Plan Section and Cross Section

Links 100 50 0 1 2 3 4 5 10 20 Chains

Vertical Scale for Section and Cross Section

Feet 10 5 0 10 20 30 40 50 100 200 Feet

Datum Line *the same as for Railway Nº 1.*

2 Miles | 1 Furlong | 2 Furlongs | 3 Furlongs | 4 Furlongs | 5 Furlongs | 6 Furlongs | 7 Furlongs | 3 Miles