

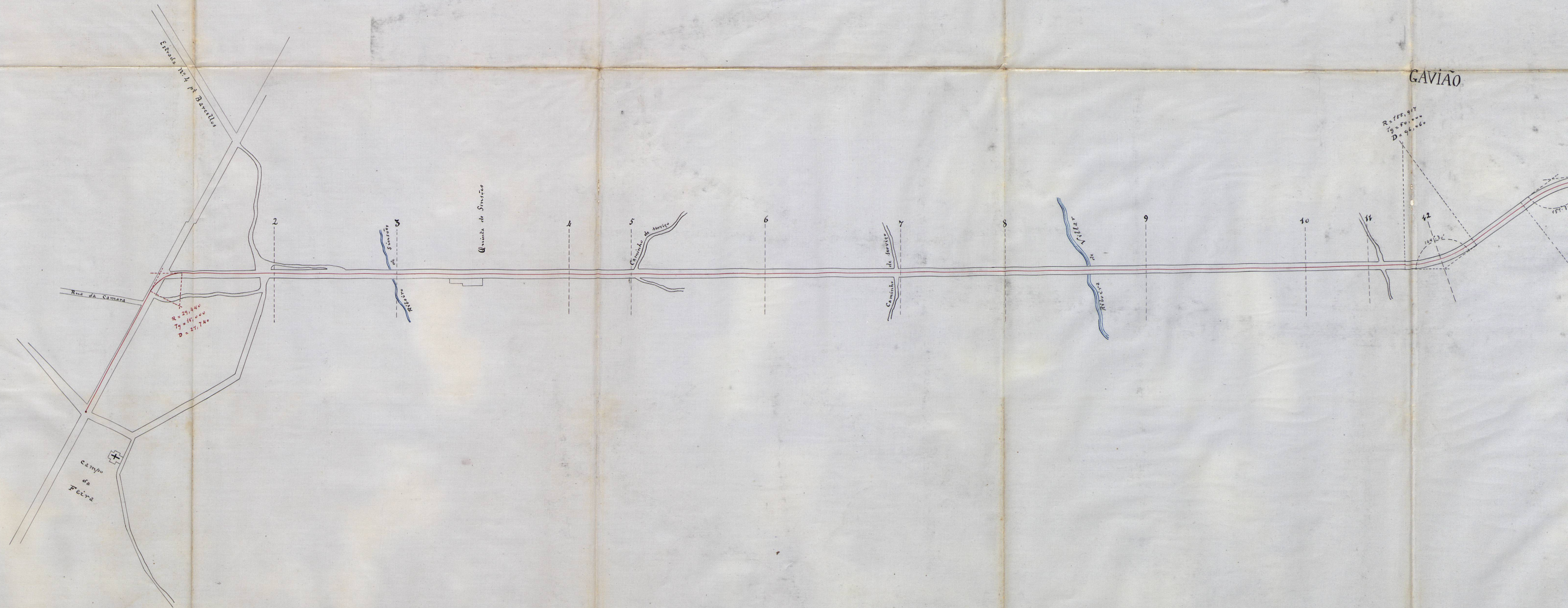
Projecto
de
Linha americana
entre
Guimarões e Famalicão

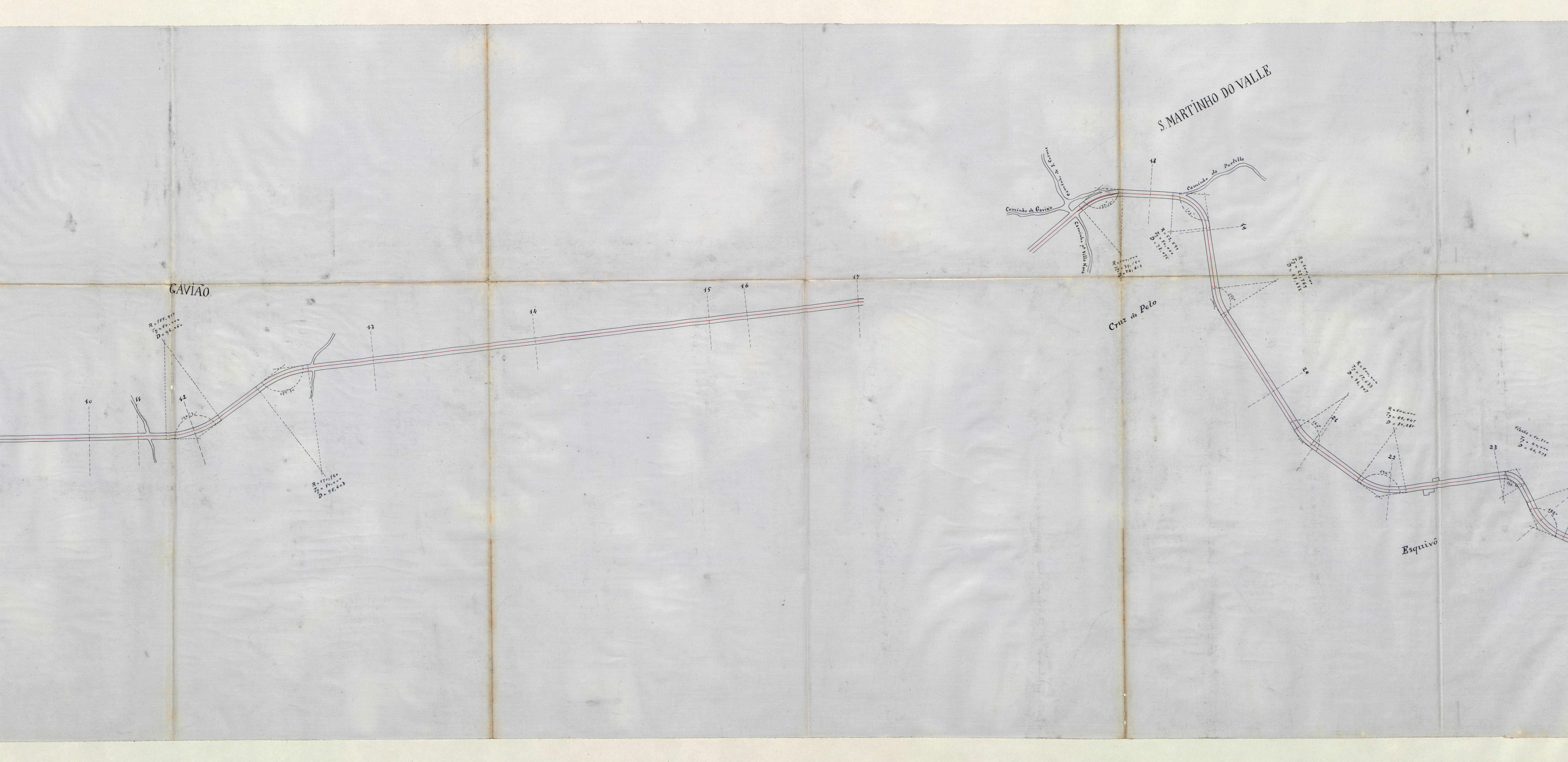
Planta Geral

PROJECTO
DE LINHA AMERICANA
de Guimarães a Famalicão
PLANTA
das Estradas Reaes nºs 21, 27 e sua ligação
e ruas da cidade

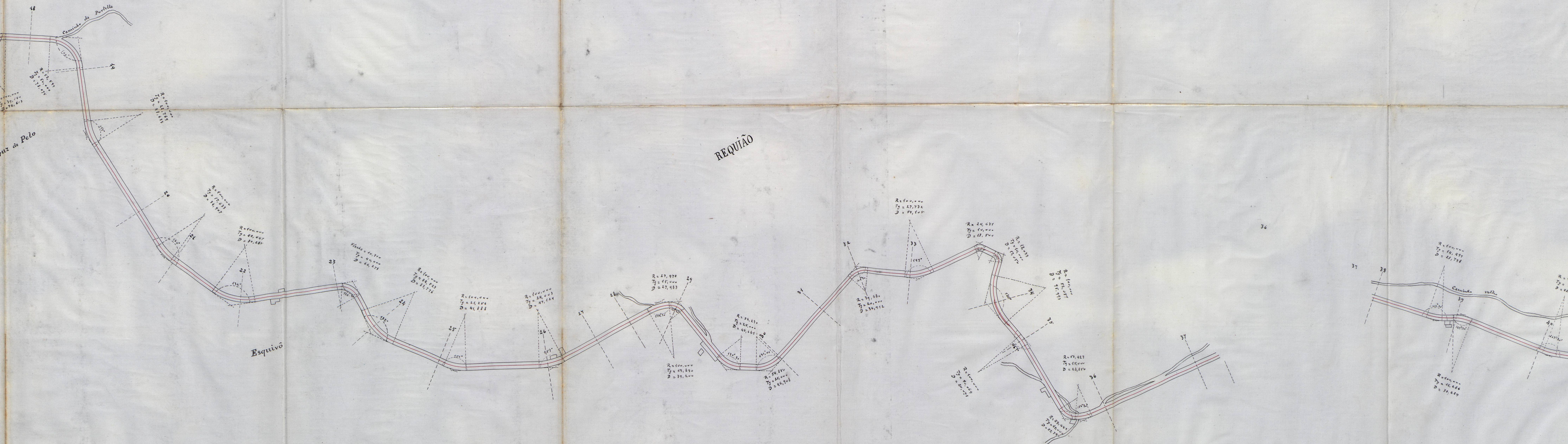
Escala $\frac{1}{2500}$

VILLANOVA DE FAMALICÃO

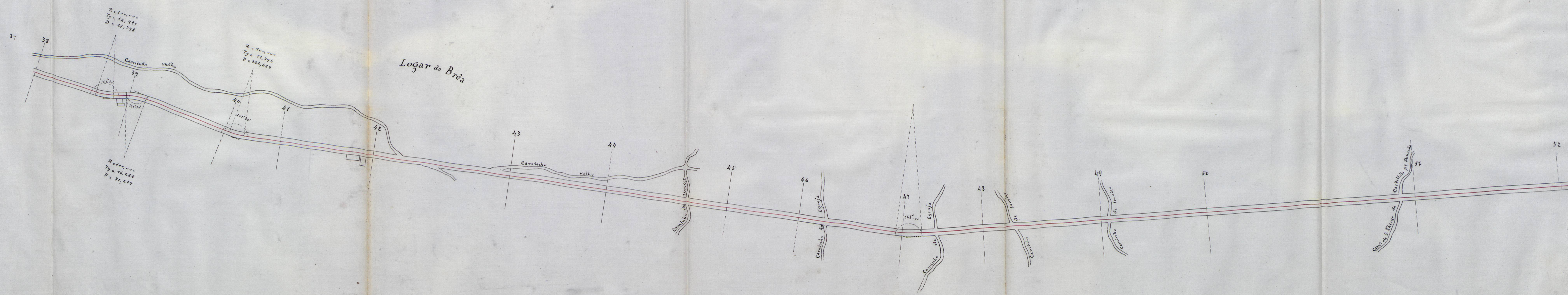




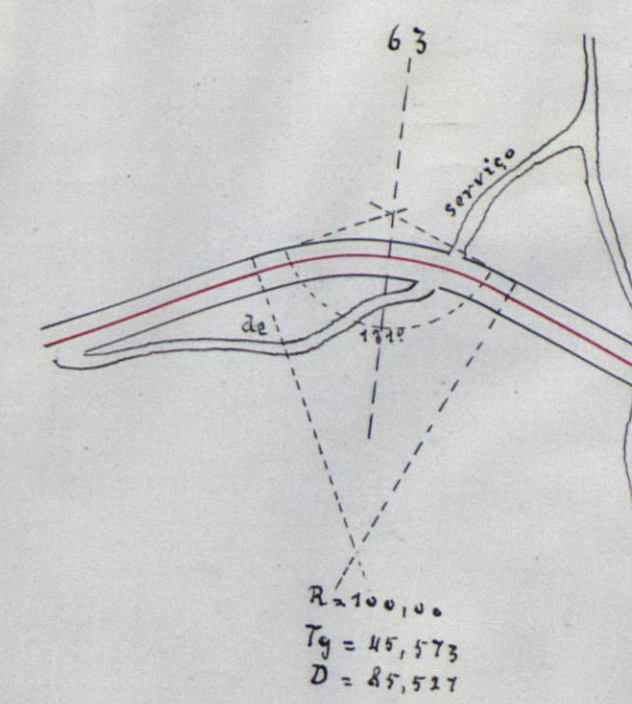
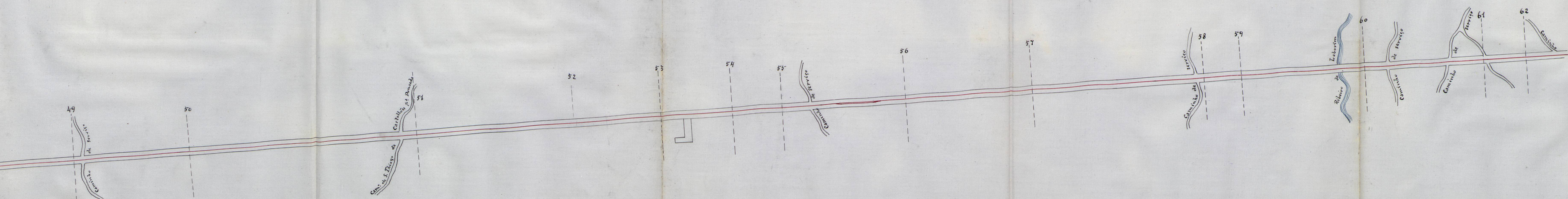
S. MARTINHO DO VALLE



36



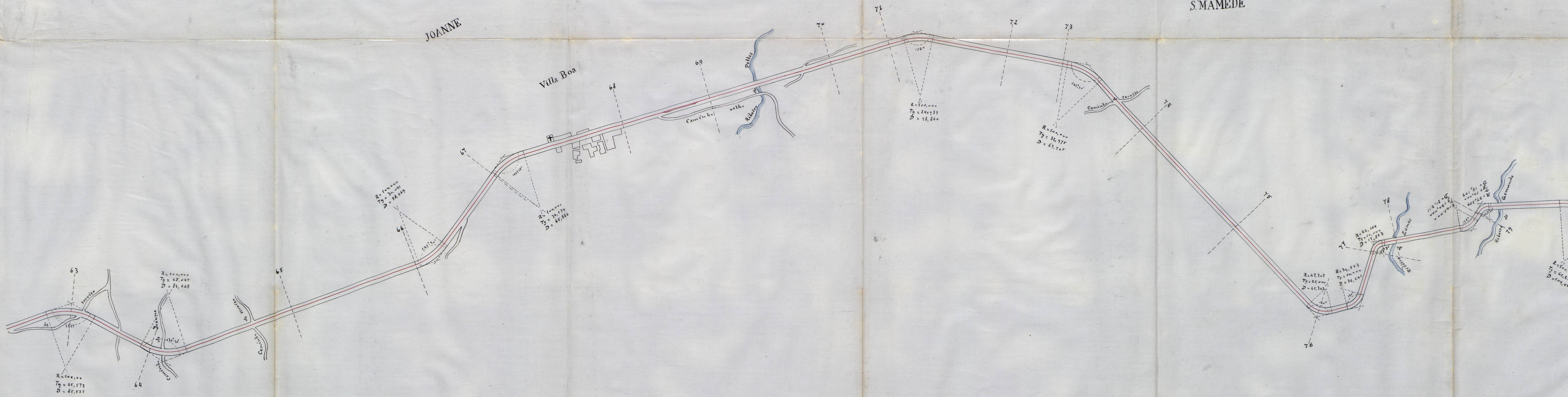
POUSADA



JOANNE

S. MAMEDE

Villa Boa

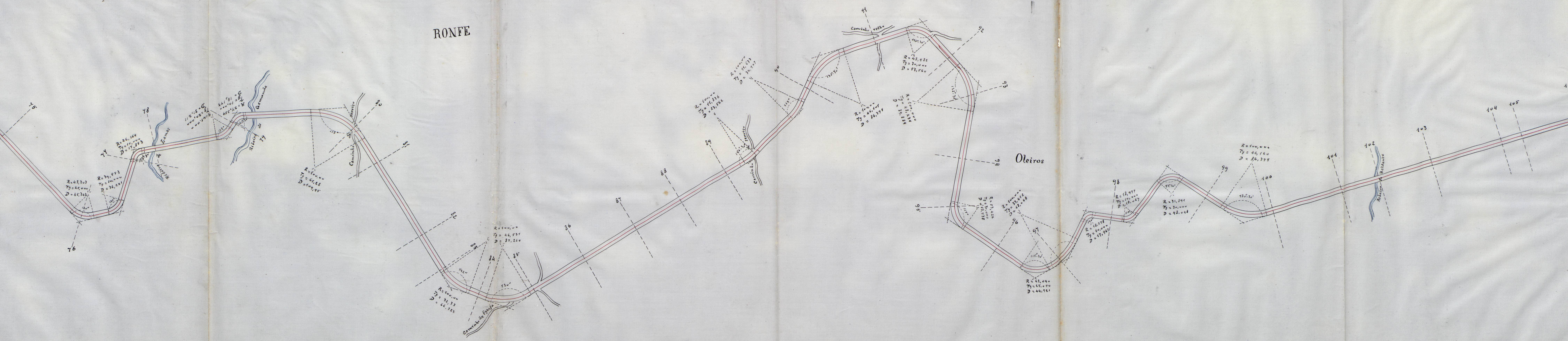


DE

BRITO

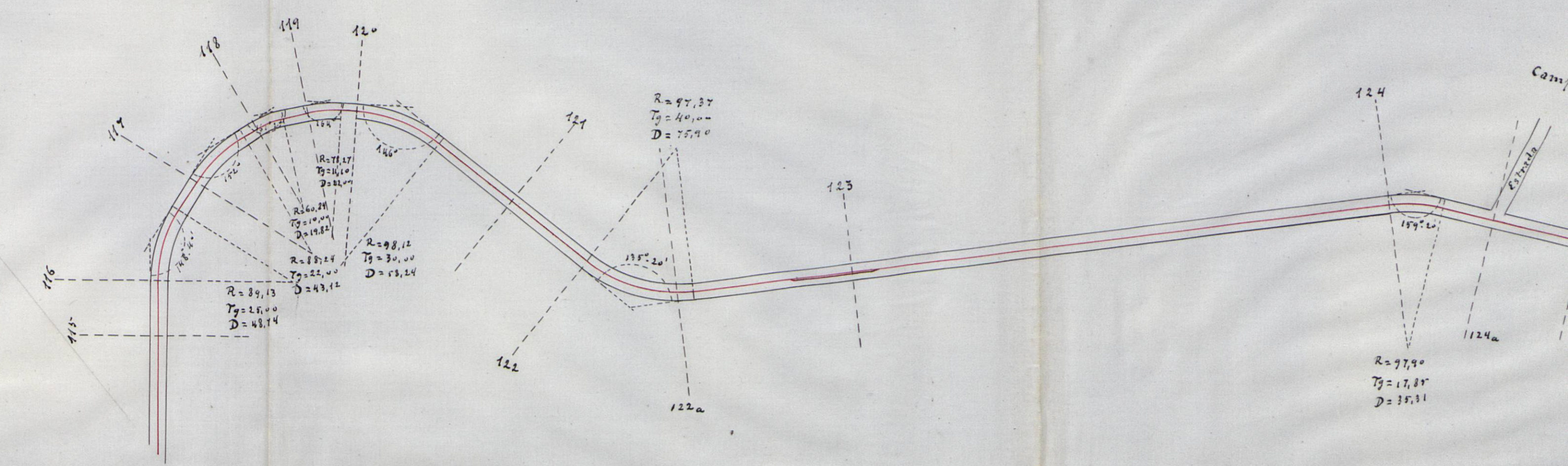
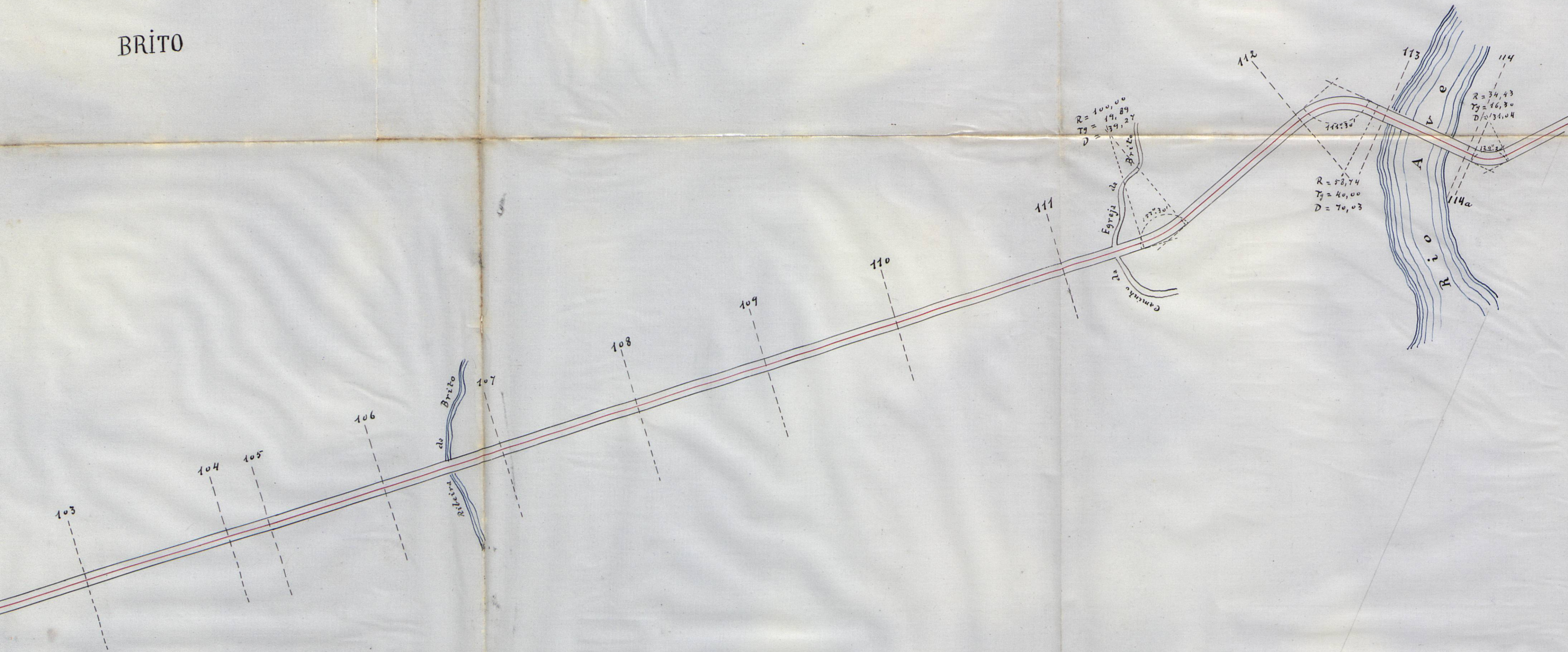
RONFE

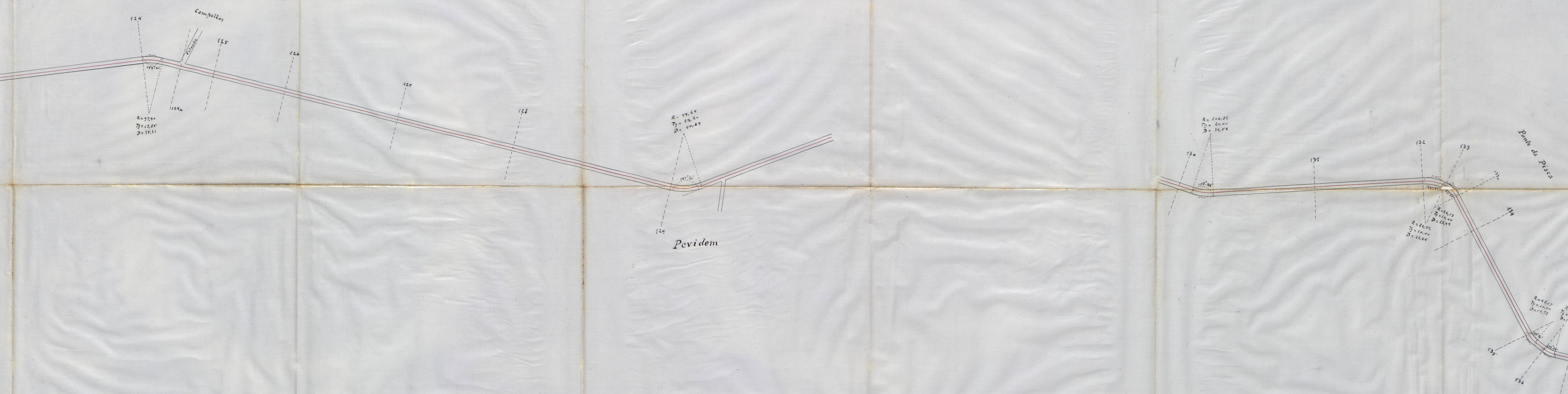
Oleiros



BRITO

Ponte de Brito





Perfis Transversae

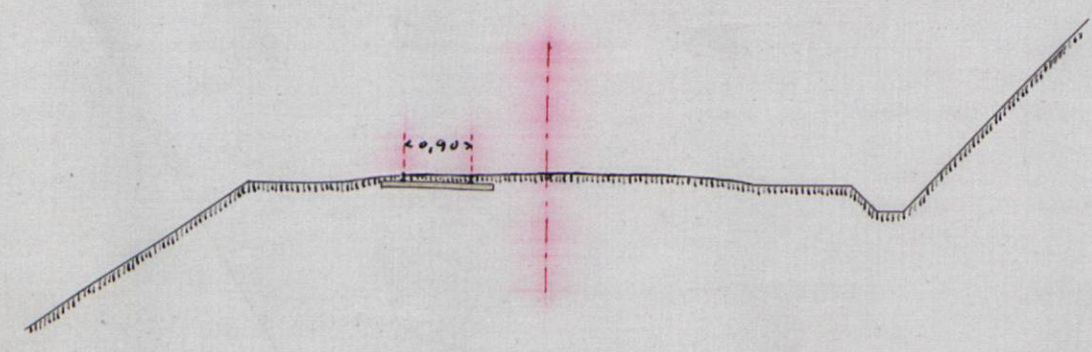
PROJECTO
 DE LINHA AMERICANA
 de Guimarães a Famalicão
 PERFIS TRANSVERSAES

da Ligação das estradas reais n.º 31 e 27

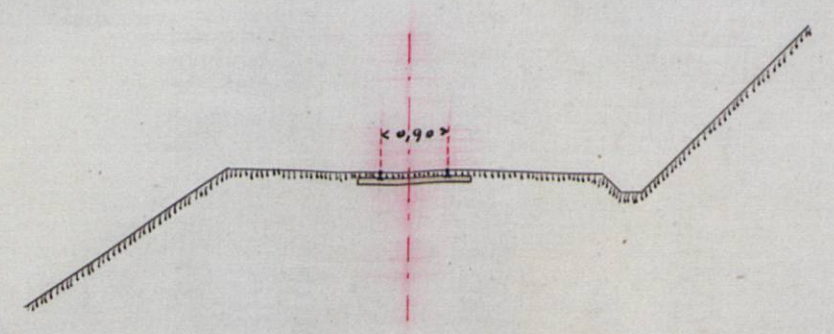
Escala $\frac{1}{200}$



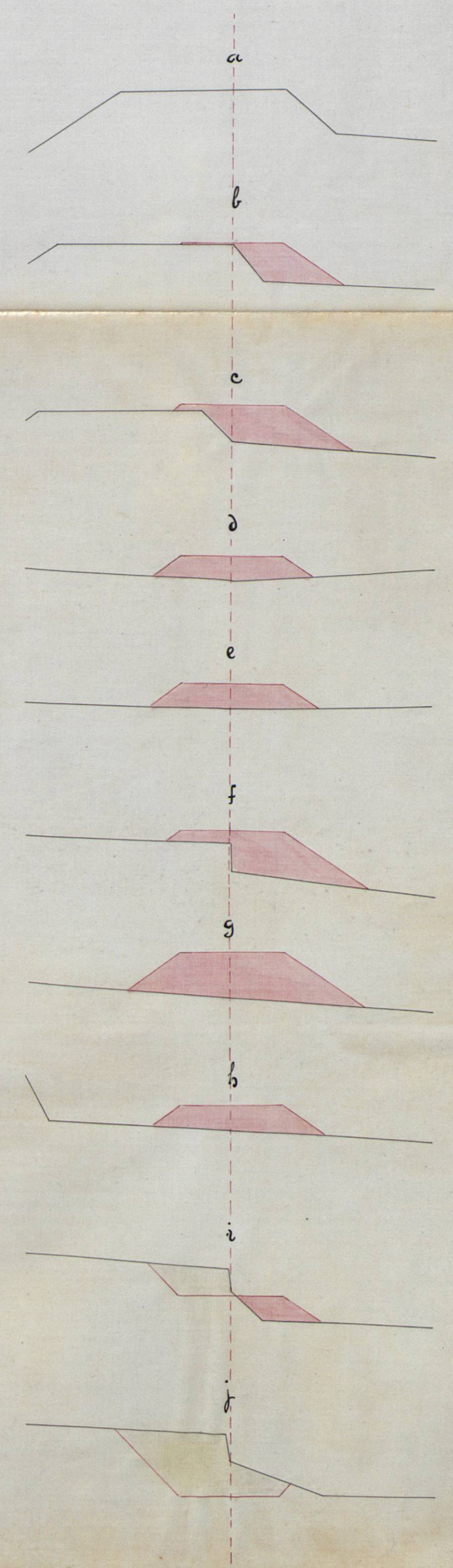
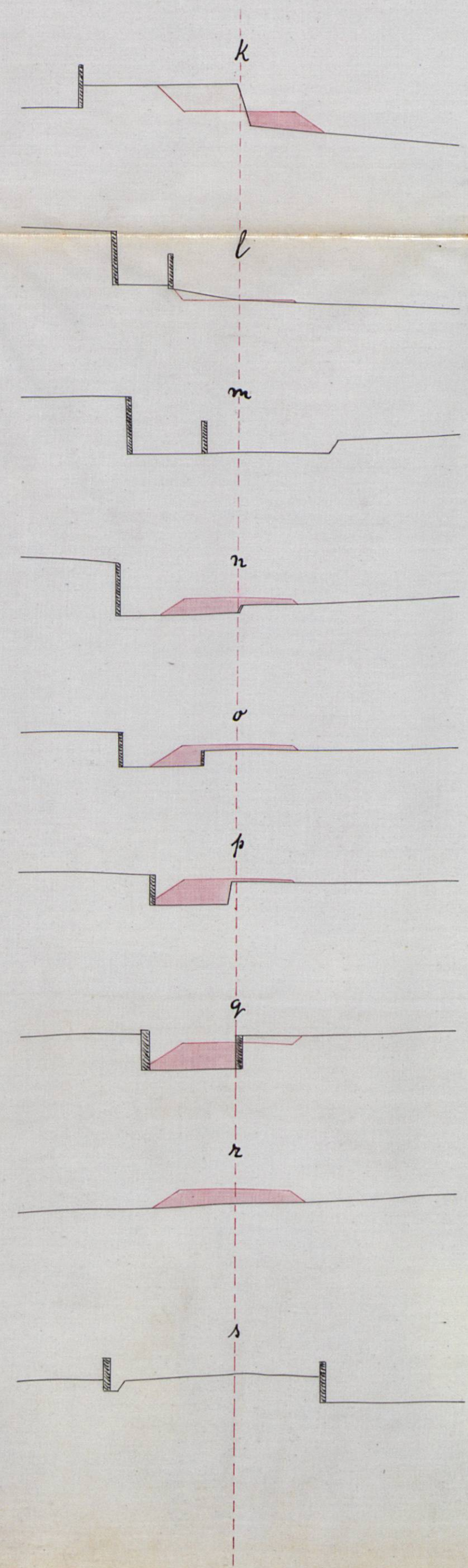
Perfis typos
 Estradas Reaes n.º 31 e 27



Ligação
 das Estradas Reaes n.º 31 e 27



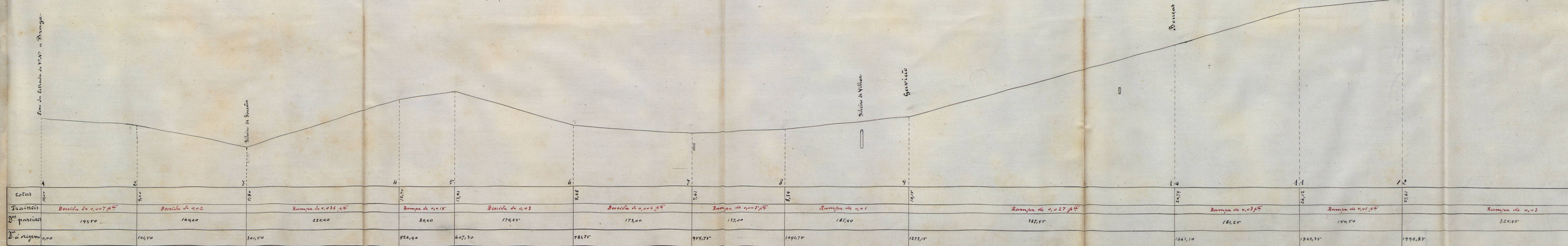
Escala $\frac{1}{100}$

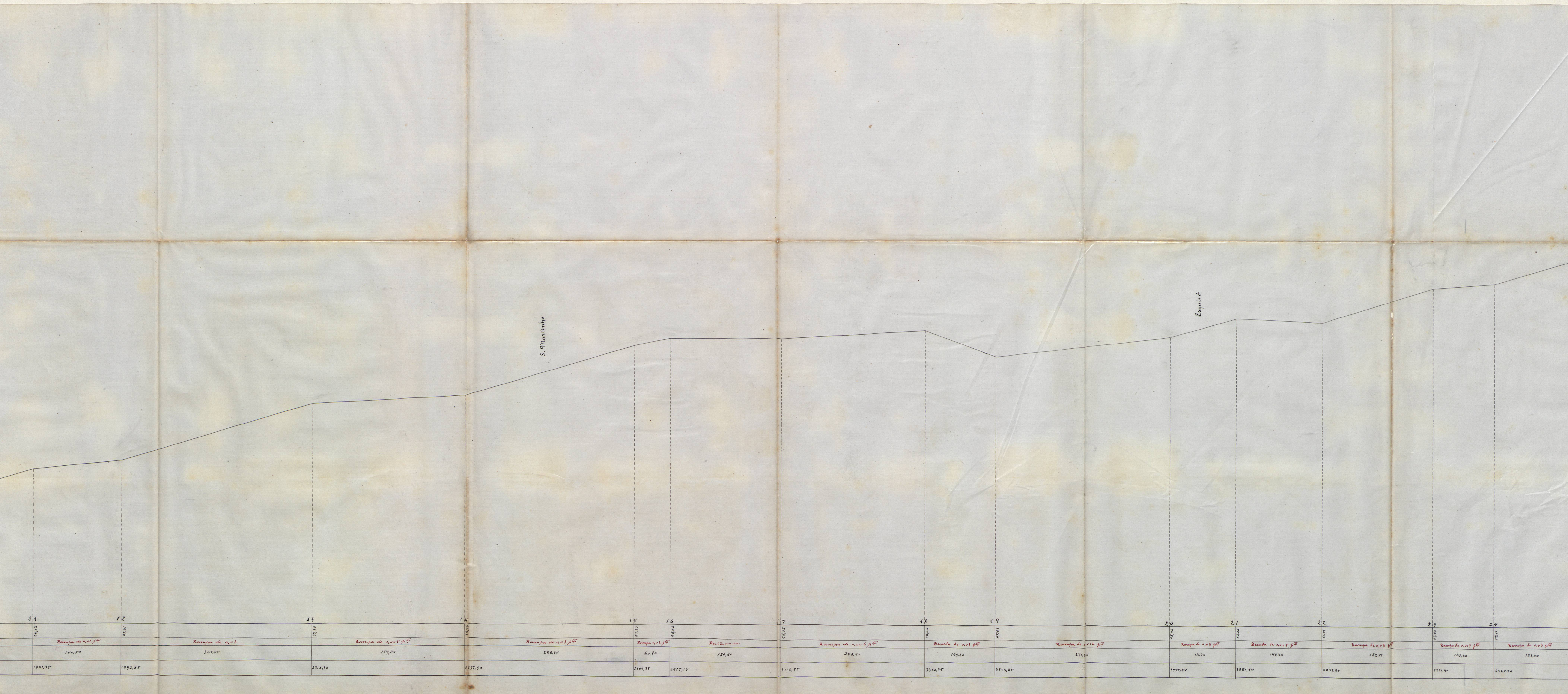


Perfil Longitudinal

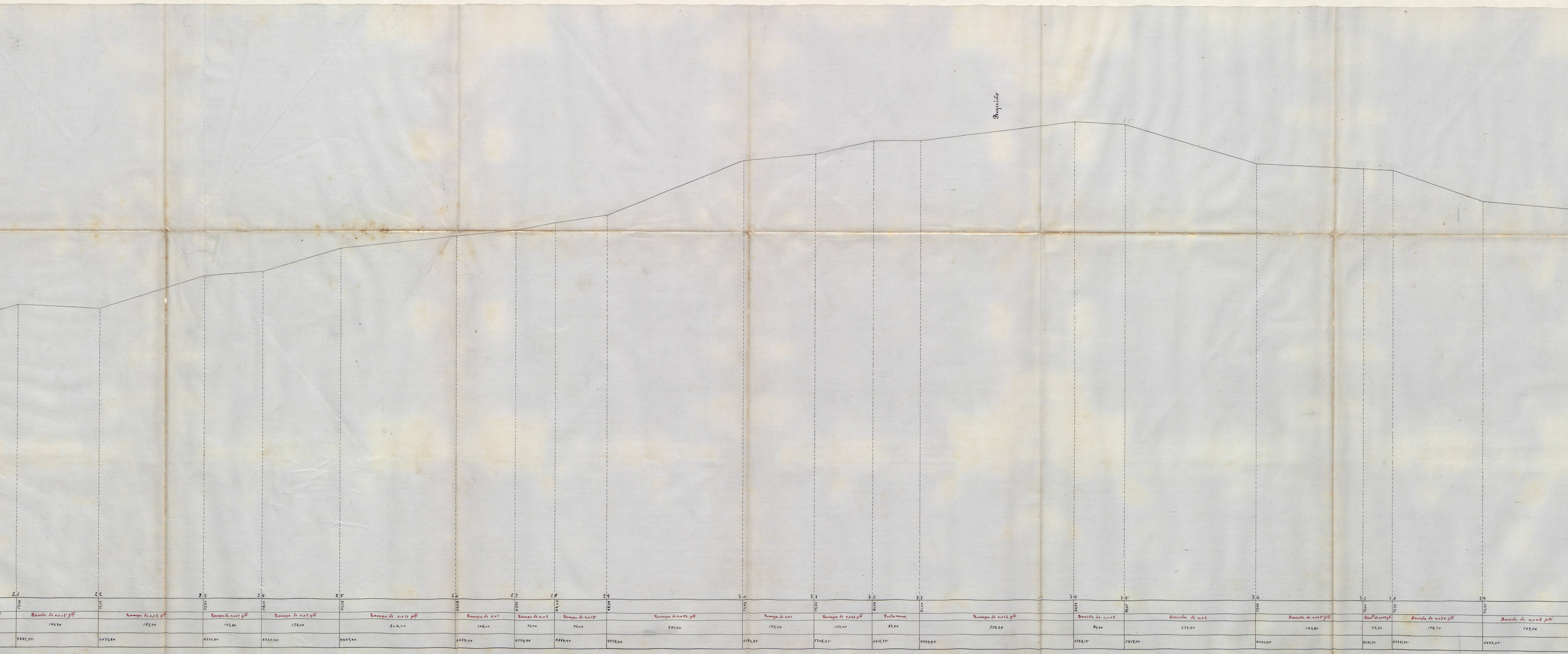
PROJECTO
 DE LINHA AMERICANA
 de Guimarães a Famalicão
 PERFIL LONGITUDINAL
 das Estradas N.ºs 1.º, 2.º e sua ligação
 e ruas da cidade

Escala $\left\{ \begin{array}{l} \text{das horizontaes} \\ \text{das verticaes} \end{array} \right. \begin{array}{l} \frac{1}{2500} \\ \frac{1}{250} \end{array}$

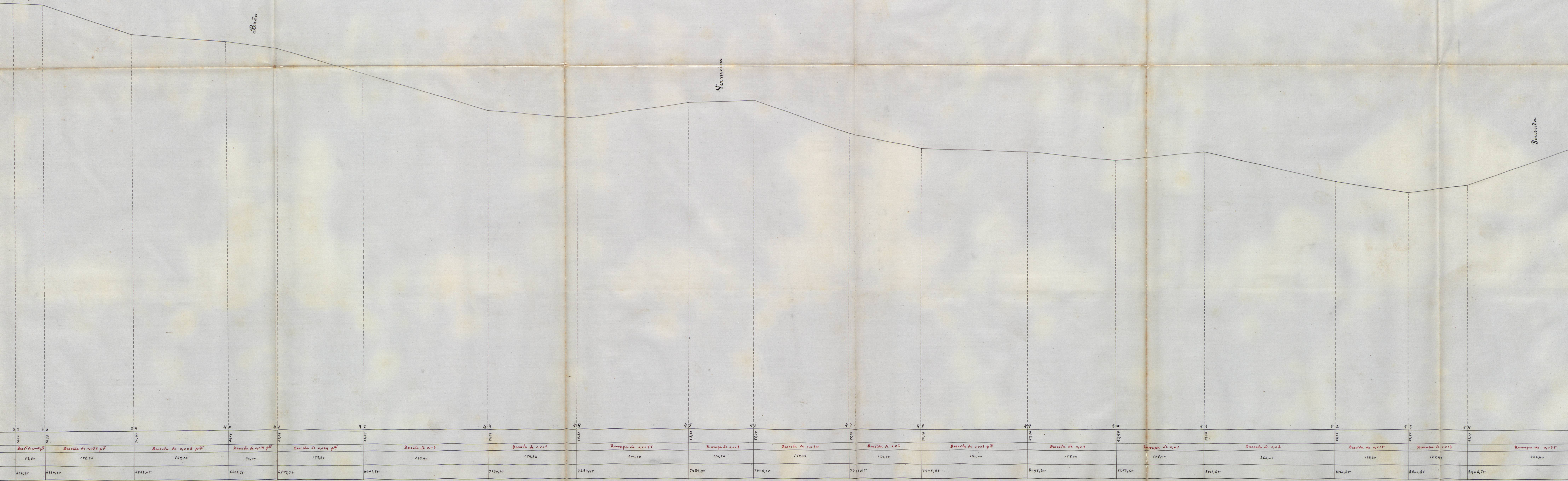




Requiere



| Station | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.1 | 3.2 | 3.3 | 3.4 | 3.5 | 3.6 | 3.7 | 3.8 | 3.9 |
|-------------|-----------------------|---------------------|---------------------|---------------------|---------------------|---------------|---------------|---------------|---------------------|---------------|---------------------|-----------|---------------------|-----------------|-----------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Description | Bascida de 0,05 p/100 | Rampa de 0,03 p/100 | Rampa de 0,07 p/100 | Rampa de 0,03 p/100 | Rampa de 0,01 p/100 | Rampa de 0,01 | Rampa de 0,02 | Rampa de 0,05 | Rampa de 0,07 p/100 | Rampa de 0,01 | Rampa de 0,02 p/100 | Palanquin | Rampa de 0,02 p/100 | Bascida de 0,05 | Bascida de 0,03 | Bascida de 0,05 p/100 | Bascida de 0,05 p/100 | Bascida de 0,03 p/100 | Bascida de 0,03 p/100 |
| Value 1 | 146,70 | 182,50 | 103,80 | 138,70 | 206,00 | 106,00 | 76,00 | 92,00 | 246,90 | 127,80 | 103,00 | 81,00 | 276,20 | 80,00 | 231,80 | 190,80 | 92,00 | 152,70 | 149,70 |
| Value 2 | 3887,80 | 4036,80 | 4221,40 | 4320,20 | 4463,40 | 4649,40 | 4776,90 | 4866,40 | 4938,10 | 5180,80 | 5108,30 | 5041,30 | 5494,40 | 5789,10 | 5827,50 | 6090,40 | 6286,70 | 6336,30 | 6493,00 |

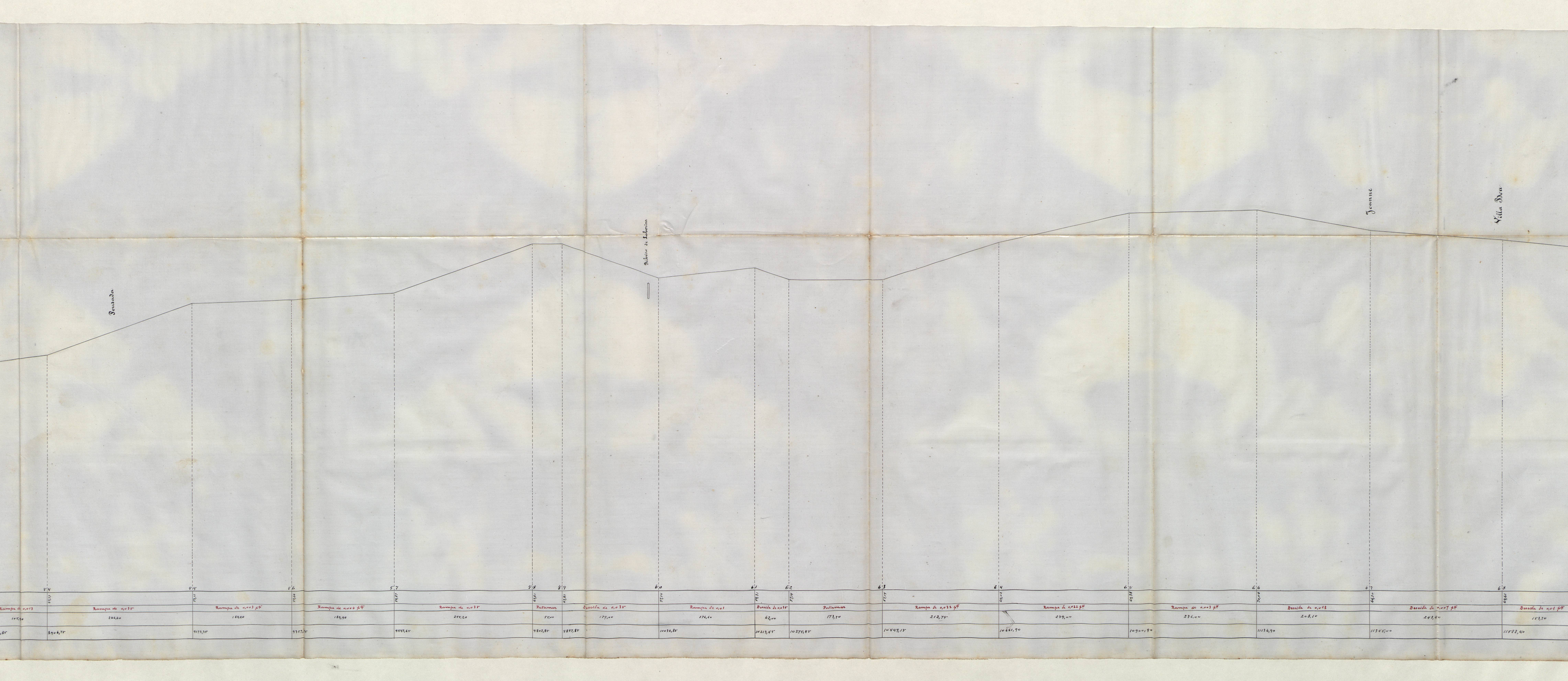


Barragem

Serra

Barragem

| | | | | | | | | | | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 |
| Barragem | Barragem | Barragem | Barragem | Barragem | Barragem | Barragem | Barragem | Barragem | Barragem | Barragem | Barragem | Barragem | Barragem | Barragem | Barragem | Barragem | Barragem |
| 52,60 | 172,70 | 169,70 | 90,00 | 173,80 | 223,60 | 179,80 | 200,00 | 116,50 | 170,50 | 129,00 | 190,00 | 178,00 | 178,00 | 260,00 | 120,00 | 105,00 | 200,00 |
| 620,75 | 639,35 | 649,05 | 660,75 | 670,25 | 690,95 | 710,15 | 728,95 | 748,95 | 760,15 | 778,65 | 790,65 | 809,65 | 827,65 | 841,65 | 876,65 | 880,25 | 890,65 |



Banda

Alfaro de Salomon

Jeanne

Villa Rica

| | | | | | | | | | | | | | | |
|----------------|----------------|----------------|----------------|----------------|-----------|----------------|----------------|-----------|----------------|----------------|----------------|----------------|----------------|----------------|
| 5.4 | 5.5 | 5.6 | 5.7 | 5.8 | 5.9 | 6.0 | 6.1 | 6.2 | 6.3 | 6.4 | 6.5 | 6.6 | 6.7 | 6.8 |
| Rampa de 0,013 | Rampa de 0,013 | Rampa de 0,013 | Rampa de 0,013 | Rampa de 0,013 | Distancia | Rampa de 0,013 | Rampa de 0,013 | Distancia | Rampa de 0,013 | Rampa de 0,013 | Rampa de 0,013 | Rampa de 0,013 | Rampa de 0,013 | Rampa de 0,013 |
| 105,00 | 208,00 | 188,00 | 189,00 | 289,20 | 55,00 | 179,00 | 176,00 | 62,00 | 173,70 | 212,75 | 239,00 | 236,00 | 208,10 | 247,80 |
| 5904,75 | 9133,35 | 9377,35 | 9597,65 | 9802,85 | 9897,85 | 10036,85 | 10213,45 | 10275,85 | 10447,15 | 10661,70 | 10900,70 | 11136,90 | 11343,00 | 11588,40 |

Villa Rica

Palacio de Bellas

S. Mateo

Palacio de Comas

Palacio de Comas

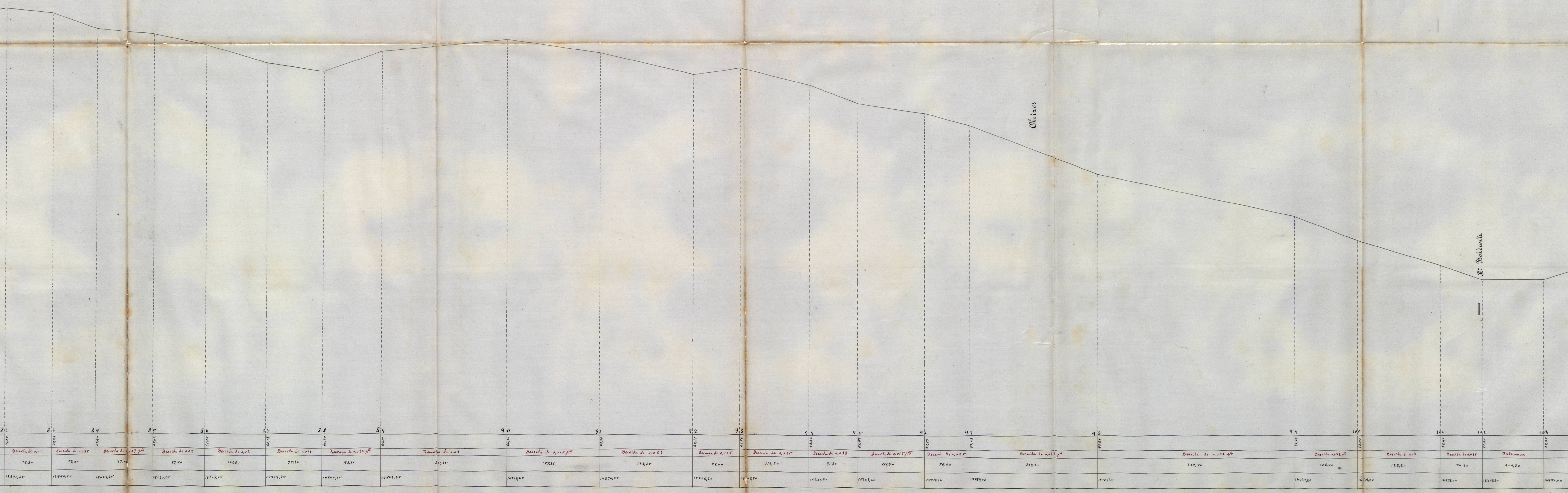
Rosio

| | | | | | | | | | | | | | | | | | |
|--------------------------------|--------------------------------|----------|------------------------------|---------------|------------------------------|-----------------|-----------------|--------------------------------|-----------------|----------|---------------|------------------------------|------------------------------|------------------------------|-----------------|-----------------|-----------------|
| 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | |
| Descida de 0,07 p ^o | Descida de 0,07 p ^o | Palaman | Rampa de 0,03 p ^o | Rampa de 0,07 | Rampa de 0,07 p ^o | Descida de 0,02 | Descida de 0,03 | Descida de 0,07 p ^o | Descida de 0,03 | Palaman | Rampa de 0,04 | Rampa de 0,07 p ^o | Rampa de 0,07 p ^o | Rampa de 0,07 p ^o | Descida de 0,01 | Descida de 0,03 | Descida de 0,03 |
| 247,40 | 153,70 | 22,60 | 107,80 | 209,40 | 107,00 | 187,70 | 247,70 | 218,00 | 162,10 | 37,00 | 165,00 | 208,00 | 76,00 | 179,00 | 72,20 | 72,00 | 97,00 |
| 11522,40 | 11742,10 | 11632,70 | 12021,00 | 12280,90 | 12387,90 | 12779,40 | 12827,10 | 13043,70 | 13200,00 | 13249,20 | 13408,20 | 13630,20 | 13716,65 | 13871,65 | 14000,95 | 14023,65 | |

Rosif

Witres

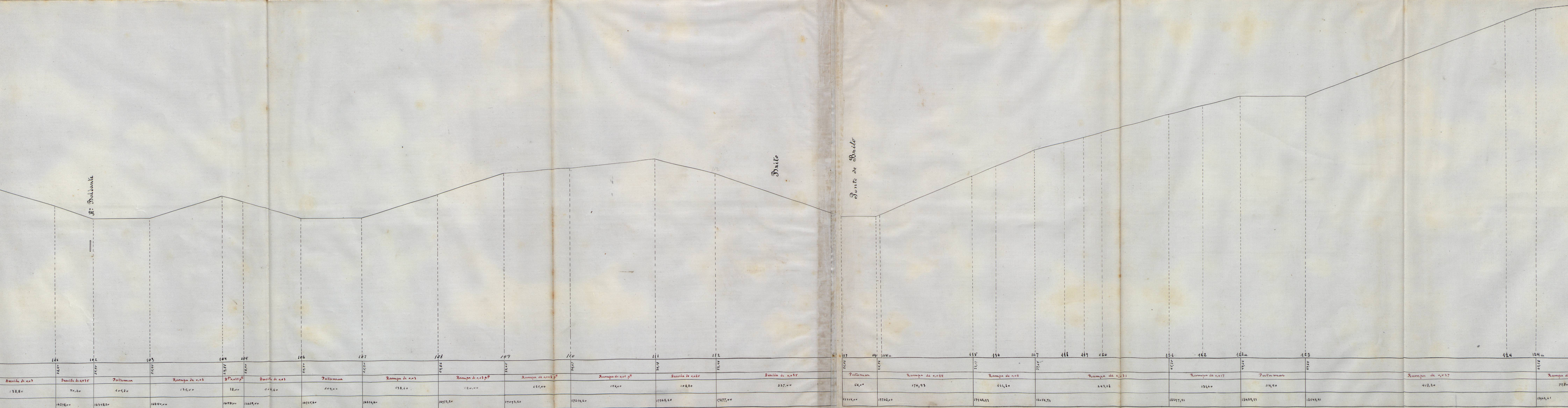
R. Bulewite



B. P. Buitante

Brito

Ponte de Brito



| | | | | | | | | | | | | | | | | | | | | | |
|------------------|------------------|------------|----------------|------------------------|------------------|------------|----------------|----------------|----------------|------------------|------------------|------------|----------------|----------------|----------------|----------------|------------|----------------|------------|----------------|----------------|
| 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 |
| Declive de 1:100 | Declive de 1:100 | Platissimo | Rampa de 1:100 | 3 ^o declive | Declive de 1:100 | Platissimo | Rampa de 1:100 | Rampa de 1:100 | Rampa de 1:100 | Declive de 1:100 | Declive de 1:100 | Platissimo | Rampa de 1:100 | Rampa de 1:100 | Rampa de 1:100 | Rampa de 1:100 | Platissimo | Rampa de 1:100 | Platissimo | Rampa de 1:100 | Rampa de 1:100 |
| 138,80 | 70,20 | 40,70 | 156,00 | 38,00 | 47,60 | 102,00 | 48,60 | 120,00 | 101,00 | 108,00 | 227,00 | | | | | | | | | | |
| 1027,00 | 1034,20 | 1044,90 | 1070,90 | 1074,90 | 1075,90 | 1076,90 | 1077,90 | 1078,90 | 1079,90 | 1080,90 | 1081,90 | 1082,90 | 1083,90 | 1084,90 | 1085,90 | 1086,90 | 1087,90 | 1088,90 | 1089,90 | 1090,90 | 1091,90 |

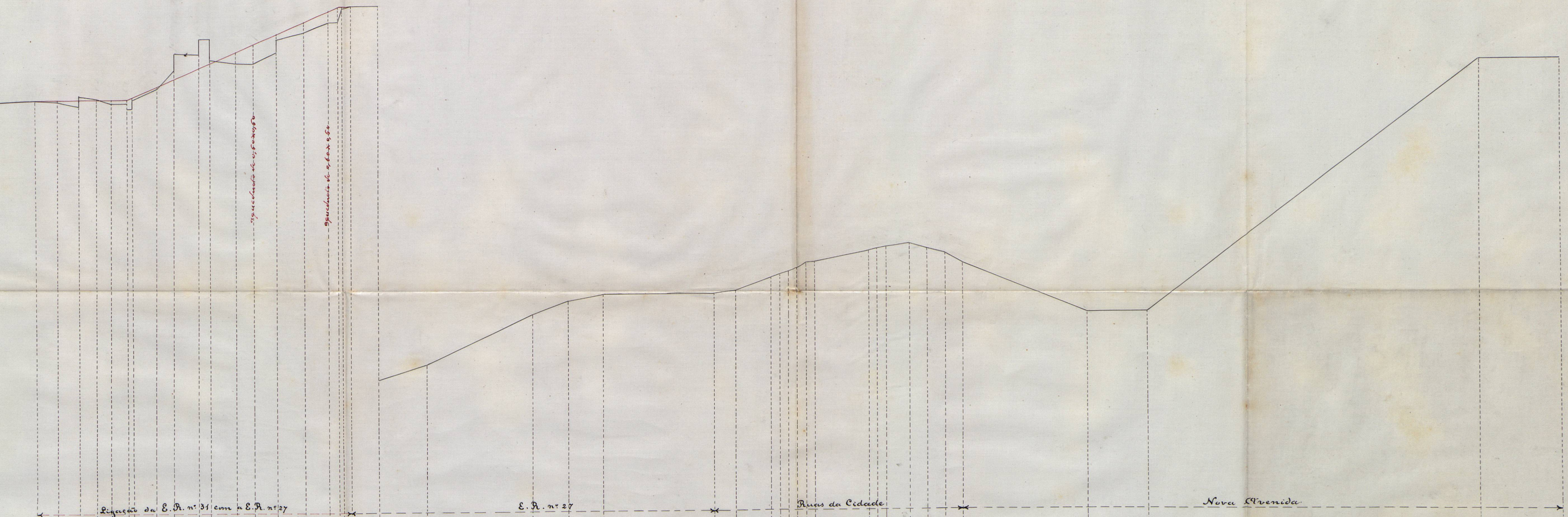
Estado para Camargos
(Linha separada)

Estación de la Ciénega
(Cruce de la Ciénega)

S. M. de la Purísima
(Cruce de la Purísima)

Puerto de la Sierra

| | | | | | | | | | | | | | | | | | |
|----------------|-----------------|-------------------|---------------|----------------|------------------|----------|----------------|----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 124 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 |
| 124 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 |
| Rampa de 0,012 | Bascida de 0,01 | Bascida de 0,0085 | Rampa de 0,02 | Rampa de 0,029 | Bascida de 0,008 | Palanque | Rampa de 0,008 | Palanque | Rampa de 0,015 | Rampa de 0,015 | Rampa de 0,015 | Rampa de 0,015 | Rampa de 0,015 | Rampa de 0,015 | Rampa de 0,015 | Rampa de 0,015 | Rampa de 0,015 |
| 77,80 | 131,00 | 240,20 | 201,20 | 293,10 | 337,66 | 289,00 | 269,10 | 68,40 | 299,24 | 121,20 | 200,96 | | | | | | |
| 1926,61 | 1900,71 | 1977,91 | 19384,61 | 19555,51 | 19775,91 | 20207,57 | 20476,57 | 20544,97 | 20790,27 | 21090,11 | 21211,31 | | | | | | 21432,81 |



| Ligação da E. R. n.º 31 com a E. R. n.º 27 | | | | | | | | | | E. R. n.º 27 | | | Ruas da Cidade | | | | Nova Avenida | | | | |
|--|-------|----------|--------|----------|----------|----------|----------|----------|----------|--------------|----------|----------|----------------|----------|----------|----------|--------------|----------|----------|----------|--|
| 148a | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156a | 156 | 157 | 158 | 159 | 160 | 160a | 161 | 162 | 163 | 164 | | | |
| 84,41 | 85,95 | 87,22 | 88,47 | 89,72 | 90,97 | 92,22 | 93,47 | 94,72 | 95,97 | 97,22 | 98,47 | 99,72 | 100,97 | 102,22 | 103,47 | 104,72 | 105,97 | 107,22 | | | |
| 104,45 | | | 339,66 | | 45,00 | 24,30 | 12,00 | 40,00 | 40,00 | 126,73 | 24,00 | 40,00 | 3,99 | 60,60 | 27,00 | 141,67 | 67,25 | 376,93 | 92,00 | | |
| 22477,01 | | 22531,45 | | 22585,89 | 22640,33 | 22694,77 | 22749,21 | 22803,65 | 22858,09 | 22912,53 | 22966,97 | 23021,41 | 23075,85 | 23130,29 | 23184,73 | 23239,17 | 23293,61 | 23348,05 | 23402,49 | 23456,93 | |

