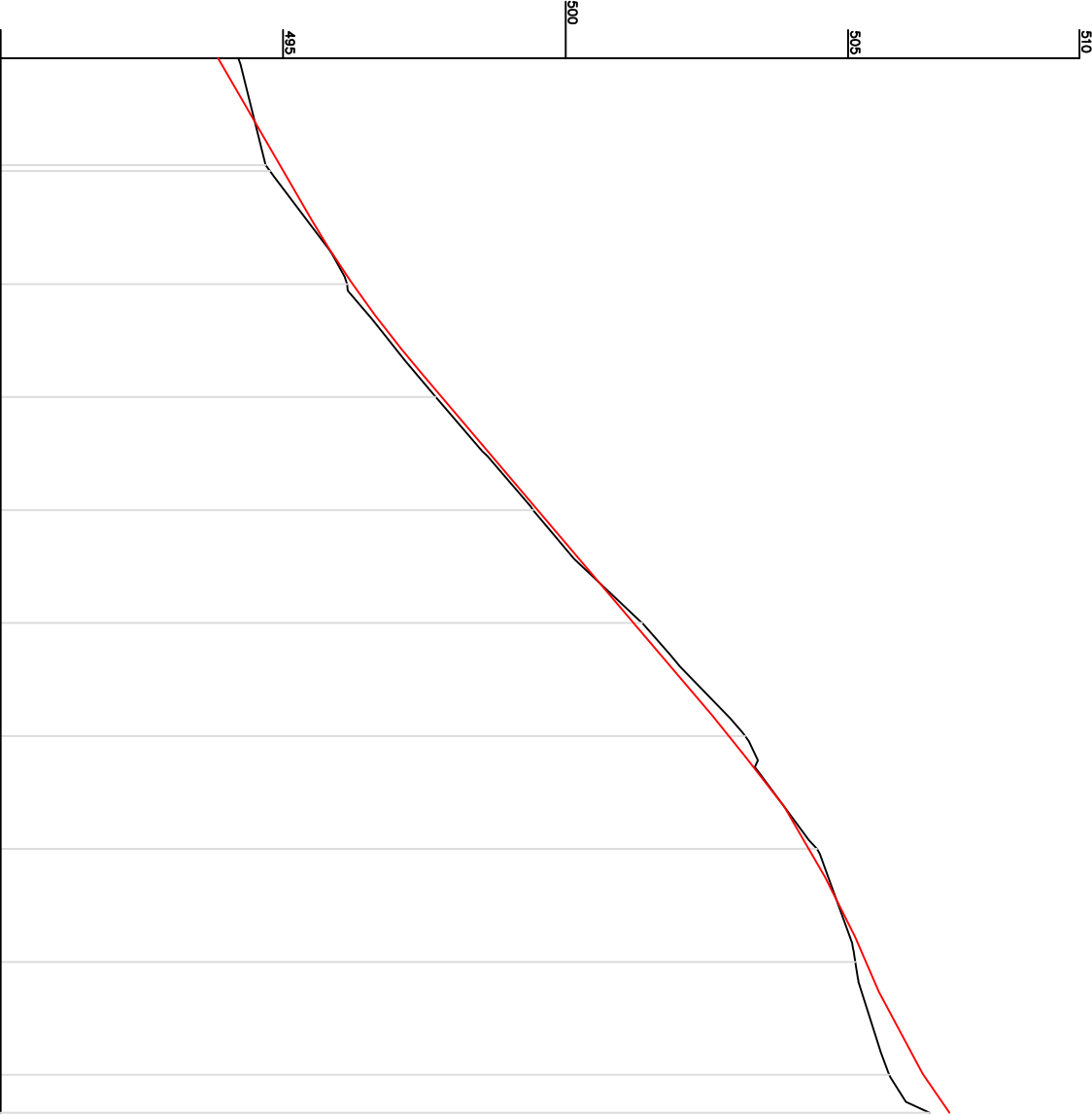




|  |  |   |  |   |  |   |  |
|--|--|---|--|---|--|---|--|
| <div><div><div><div></div><div>LCAD</div></div><div>SERVIÇOS DE ENGENHARIA</div></div><div>Av. Borges de Medeiros, 615 - Sala 104<br/>Getúlio Vargas - RS - CEP 99900-000<br/>Fone: 54-3341 3753 / 54-99950 5335</div></div> |  | <div>Resp. Técnico:</div> <div><div></div><div></div></div> |  | <div>Cliente:</div> <div><div></div><div></div></div>     |  |   |  |
| <div>Projeto :<br/>Lauson Serafini</div>   |  | <div>Data :<br/>Janeiro/2020</div>                          |  | <div>Resp. Técnico :<br/>Eng. Civil Lauson Serafini</div> |  | <div>CREA/RS 123168-D</div>                               |  |
| <div>Desenho:<br/>Lucas Fernandes</div>  |  | <div>Escala :<br/>1:950</div>                               |  | <div>Cliente: Pref. Municipal de Barra do Rio Azul</div>  |  | <div>CNPJ: 93.539.153/0001-92</div>                       |  |
| <div>Revisão:<br/>00</div>   |  | <div>Obra:<br/>Pavimentação Asfáltica</div>                 |  | <div>Local :<br/>Rua das Rosas</div>                      |  | <div>Conteúdo:<br/>Planta de Situação e Localização</div> |  |
| <div>Aprovação:<br/>-</div>  |  | <div>Prancha :<br/>01</div>                                 |  |   |  |   |  |





| Cotas do Projeto | Cotas do Terreno | Distância | Estaca   |
|------------------|------------------|-----------|----------|
| 493,849          | 494,205          |           | 0        |
| 493,911          | 494,246          | 0,000     |          |
|                  |                  |           |          |
| 494,944          | 494,688          | 18,941    | 0+18,941 |
|                  |                  | 20,000    |          |
| 495,005          | 494,767          | 20,964    | 1+0,964  |
| 495,495          | 494,841          |           |          |
|                  | 495,810          |           | 1+13,771 |
| 495,869          | 495,841          | 33,771    | 1+16,004 |
|                  | 496,086          | 36,004    | 1+18,711 |
| 496,227          | 496,131          | 36,711    | 2        |
|                  | 496,146          | 40,000    | 2+1,162  |
| 496,671          | 496,569          | 41,162    |          |
|                  | 496,804          |           | 2+9,067  |
| 497,262          | 497,163          | 49,067    |          |
| 497,435          |                  |           |          |
| 497,804          | 497,702          |           | 3        |
|                  |                  | 60,000    |          |
|                  |                  |           |          |
| 498,620          | 498,529          |           | 3+10,424 |
|                  | 498,612          | 70,424    |          |
|                  |                  |           |          |
| 499,504          | 499,383          |           | 4+19,413 |
|                  | 499,423          | 79,413    |          |
|                  |                  | 80,000    |          |
|                  | 500,148          |           | 4+8,670  |
|                  |                  | 88,670    |          |
|                  |                  |           |          |
| 501,204          | 501,353          |           | 5+19,921 |
|                  | 501,345          | 99,921    |          |
| 501,664          | 501,835          | 100,000   |          |
| 501,882          | 502,028          |           |          |
|                  |                  |           |          |
|                  | 502,821          | 117,331   | 5+17,331 |
| 502,519          | 502,953          | 119,366   | 5+19,366 |
| 502,643          | 503,125          |           |          |
| 502,893          | 503,179          | 120,000   | 6        |
|                  | 503,215          |           |          |
|                  | 503,240          | 120,932   | 6+0,932  |
| 503,322          | 503,320          | 124,331   | 6+4,331  |
|                  | 503,424          | 126,491   | 6+6,491  |
|                  |                  |           |          |
| 504,302          | 504,304          | 138,445   | 6+18,445 |
|                  | 504,449          |           | 7        |
|                  | 504,496          | 140,000   |          |
|                  |                  | 140,891   | 7+0,891  |
|                  |                  |           |          |
| 505,202          | 505,071          | 156,642   | 7+16,642 |
| 505,303          | 505,082          | 158,147   | 7+18,147 |
| 505,311          | 505,095          |           | 8        |
|                  | 505,125          |           |          |
| 505,448          | 505,181          | 160,000   | 8+3,105  |
|                  | 505,176          | 163,105   |          |
|                  | 505,178          | 163,461   | 8+3,461  |
|                  |                  |           |          |
| 506,090          | 505,577          |           | 9        |
| 506,328          | 505,726          | 180,000   | 9+0,407  |
| 506,629          | 505,748          | 180,407   |          |
|                  | 506,020          |           | 9+10,00  |
|                  | 506,439          |           |          |
|                  |                  | 186,688   |          |

Av. Borges de Medeiros, 615 - Sala 104  
Getúlio Vargas - RS - CEP 99900-000  
Fone: 54-3341 3753 / 54-99950 5335

Resp. Técnico:

Cliente:

Projeto :  
Lauson Serafini

Data :  
Janeiro/2020

Resp. Técnico :  
Eng. Civil Lauson Serafini  
CREA/RS 123168-D

Desenho:  
Lucas Fernandes

Escala :  
1:1.300

Cliente: Pref. Municipal de Barra do Rio Azul  
CNPJ: 93.539.153/0001-92

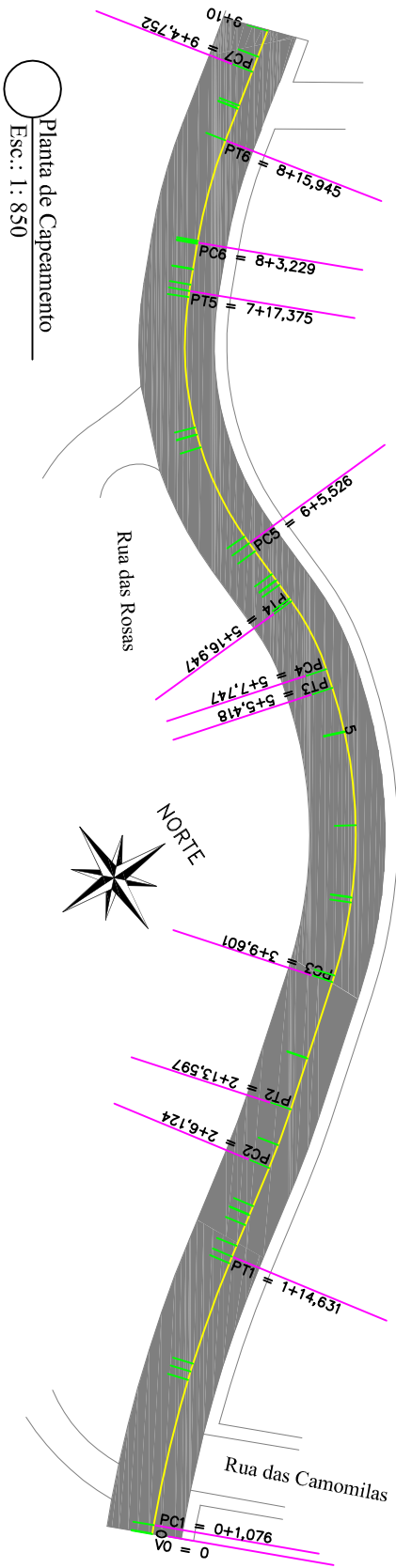
Aprovação:  
-

Revisão :  
00

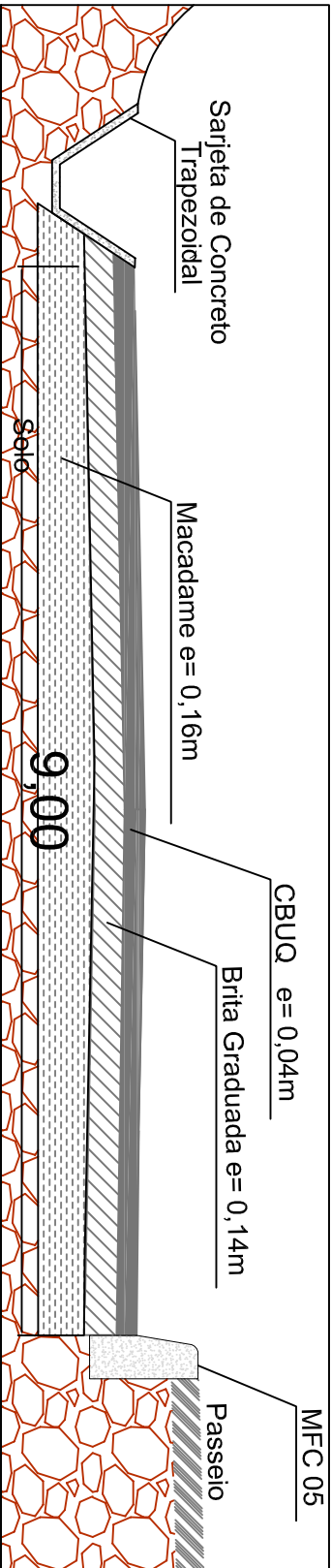
Local :  
Rua das Rosas

Prancha :  
02

Conteúdo:  
Perfil Longitudinal





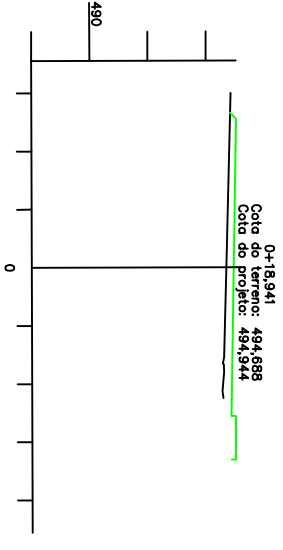
## Seção Tipo



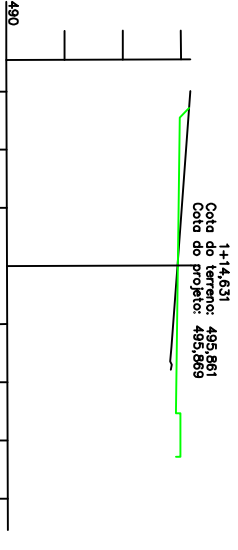
### CAPEAMENTO

| TIPO                        | EXTENSÃO | ÁREA (m²) | VOL. (m³) |
|-----------------------------|----------|-----------|-----------|
| C.B.U.Q<br>4 cm             | 190,00   | 1.710,00  | 68,40     |
| Brita Graduada<br>14 cm     | 190,00   | 1.710,00  | 239,40    |
| Macadame Seco<br>16 cm      | 190,00   | 1.710,00  | 273,60    |
| Área Especial<br>Detalhe 12 | -        | 63,00     | 7,42      |

|  |                        |   |                          |                   |  |
|--|------------------------|---|--------------------------|-------------------|--|
| <br>SERVIÇOS DE ENGENHARIA<br>Av. Borges de Medeiros, 615 - Sala 104<br>Getúlio Vargas - RS - CEP 99900-000<br>Fone: 54-3341 3753 / 54-99950 5335 |                        | Resp. Técnico:<br> |                          | Cliente:<br>..... |  |
| Projeto :<br>Lauson Serafini   | Data :<br>Janeiro/2020 | Resp. Técnico :<br>Eng. Civil Lauson Serafini   | CREA/RS 123168-D         |                   |  |
| Desenho:<br>Lucas Fernandes  | Escala :<br>Indicada   | Cliente: Pref. Municipal de Barra do Rio Azul   | CNPJ: 93.539.153/0001-92 |                   |  |
| Aprovação:<br>-  | Revisão :<br>00        | Obra:<br>Pavimentação Asfáltica   |                          |                   |  |
|  | Prancha :<br>03        | Local :<br>Rua das Rosas  |                          |                   |  |
|  |                        | Conteúdo:<br>Planta de Capemanto e Geométrico   |                          |                   |  |



| Cotas do Projeto | Cotas do Terreno |
|------------------|------------------|
| 5,316            |                  |
| 494,832          |                  |
| 5,113            | 6,000            |
| 495,034          | 494,850          |
| 5,113            |                  |
| 495,034          |                  |
| 0,000            | 0,000            |
| 494,944          | 494,688          |
|                  |                  |
|                  | 3,087            |
|                  | 494,605          |
|                  | 3,305            |
|                  | 494,565          |
|                  | 3,337            |
| 5,113            |                  |
| 494,853          | 494,598          |
| 5,113            | 3,611            |
| 494,853          | 494,604          |
| 5,113            | 4,259            |
| 495,003          | 494,547          |
| 6,613            | 4,503            |
| 495,003          | 494,579          |
| 6,613            |                  |
| 494,853          |                  |



| Cotas do Projeto | Cotas do Terreno |
|------------------|------------------|
| 5,410            |                  |
| 496,278          |                  |
| 5,082            | 6,000            |
| 495,950          | 496,323          |
| 5,082            |                  |
| 495,950          |                  |
| 0,000            | 0,000            |
| 495,869          | 495,861          |
|                  |                  |
|                  | 2,806            |
|                  | 495,645          |
|                  | 3,302            |
|                  | 495,592          |
|                  | 3,407            |
| 5,082            |                  |
| 495,789          | 495,653          |
| 5,082            | 3,592            |
| 495,789          | 495,618          |
| 5,082            |                  |
| 495,939          |                  |
| 6,582            |                  |
| 495,939          |                  |
| 6,582            |                  |
| 495,789          |                  |



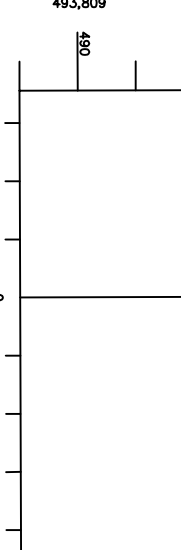
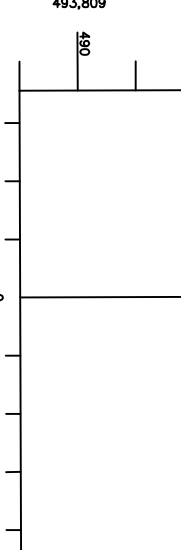
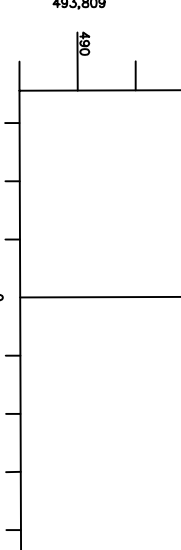
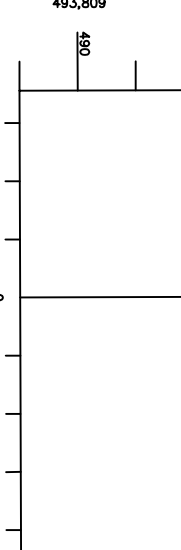
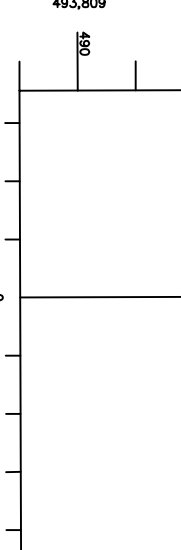
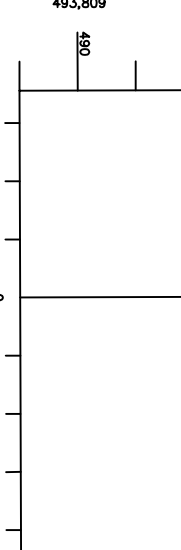
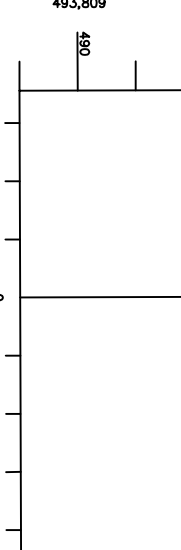
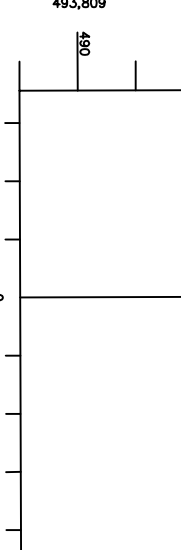
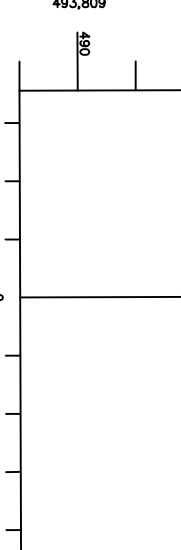
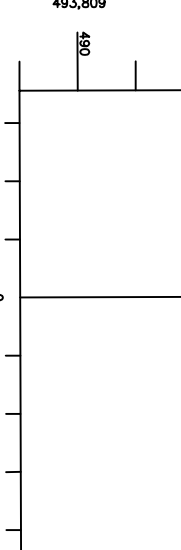
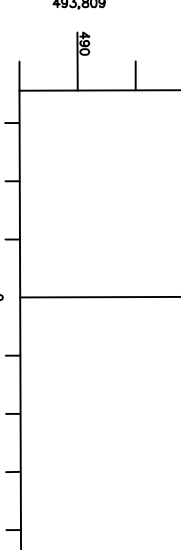
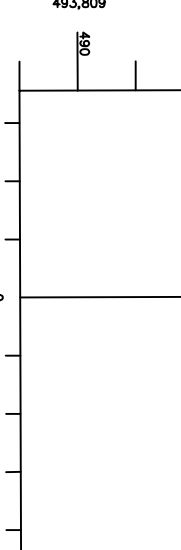
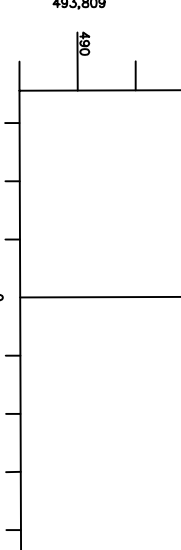
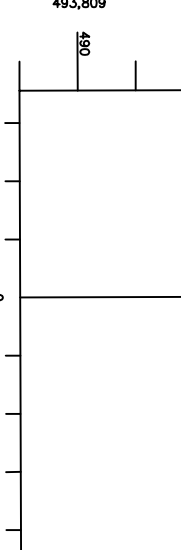
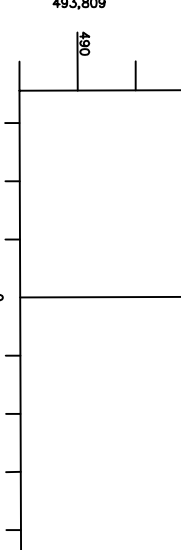
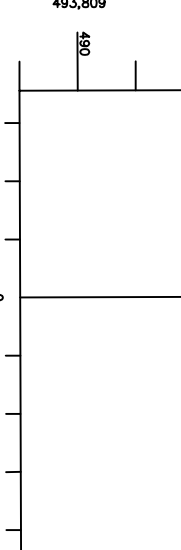
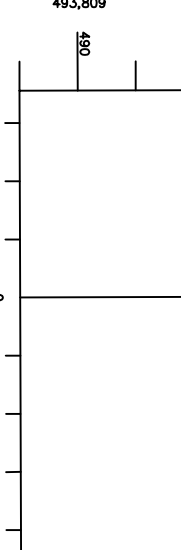
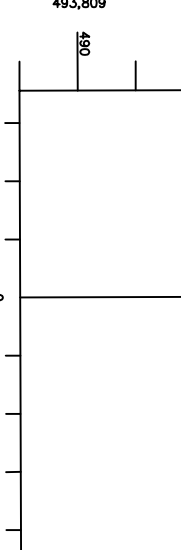
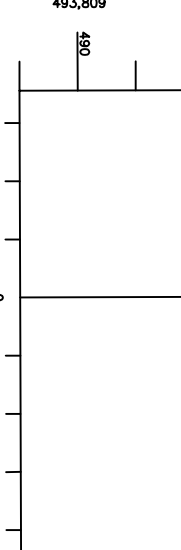
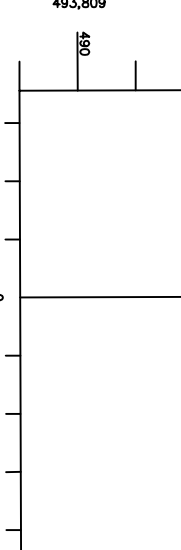
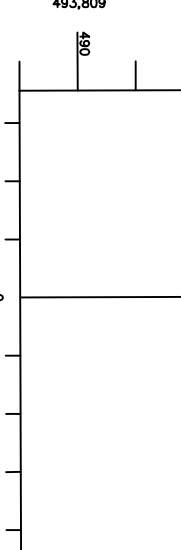
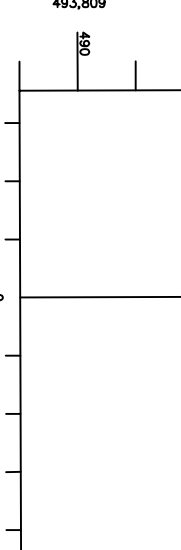
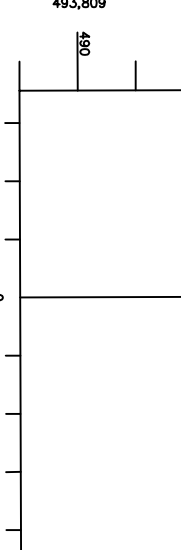
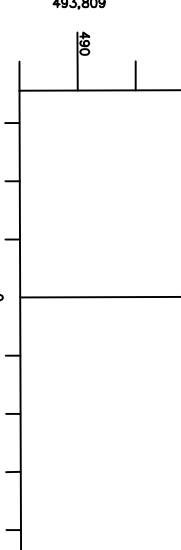
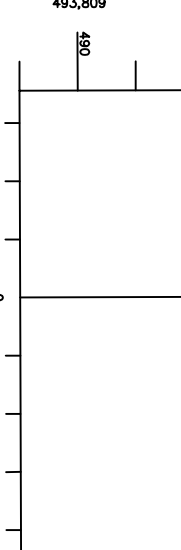
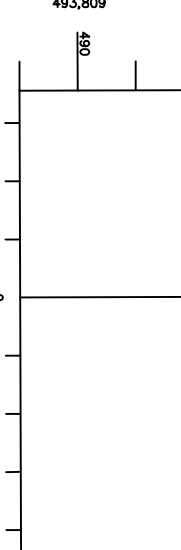
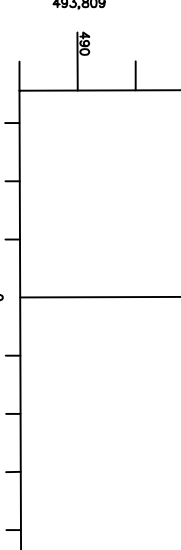
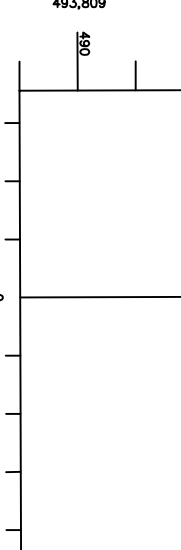
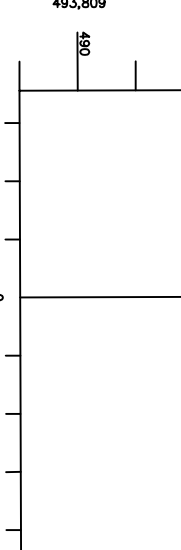
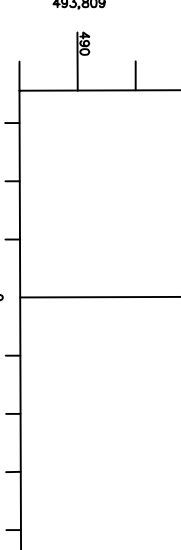
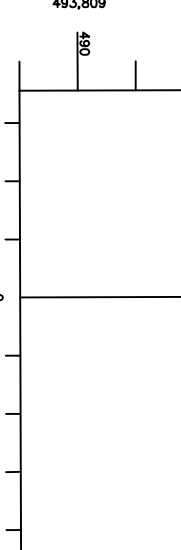
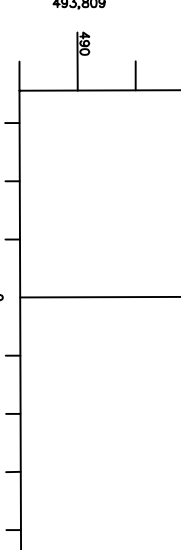
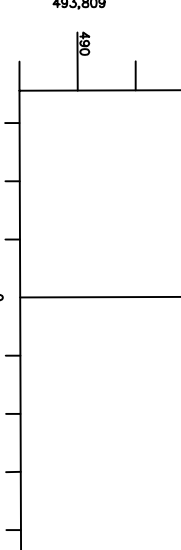
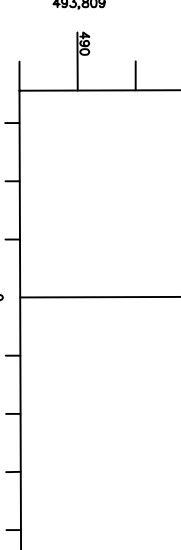
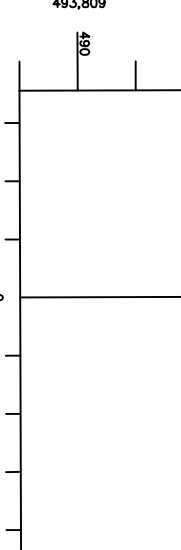
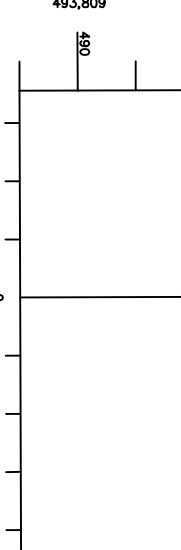
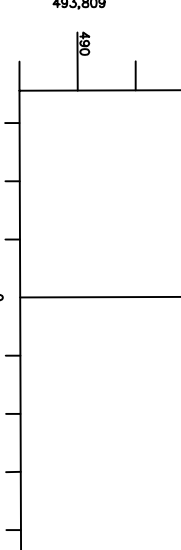
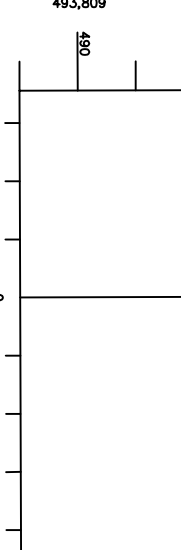
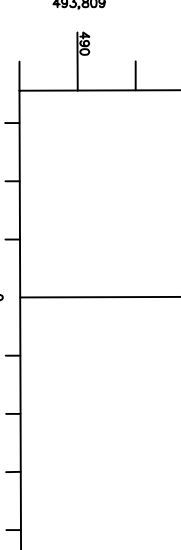
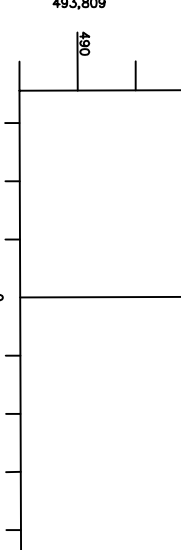
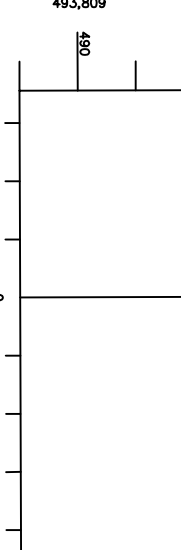
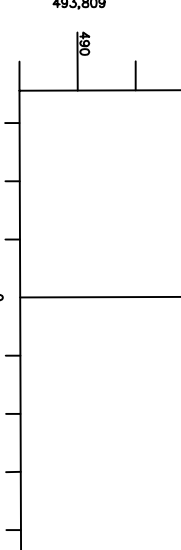
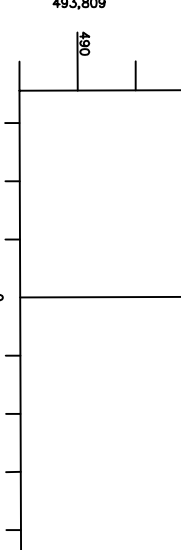
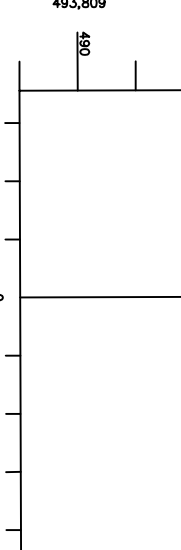
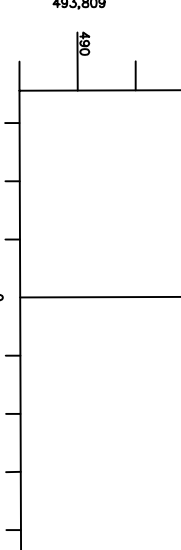
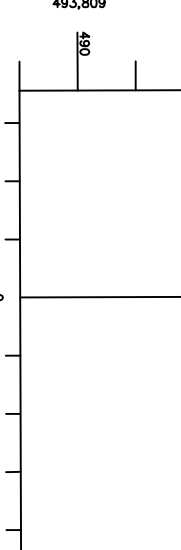
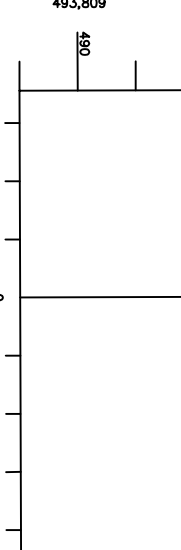
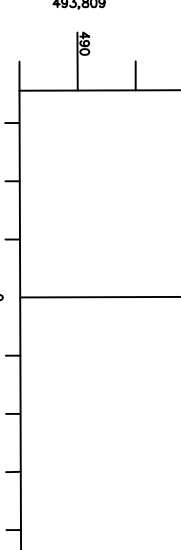
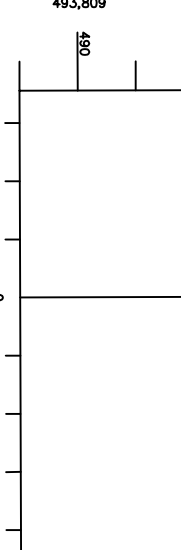
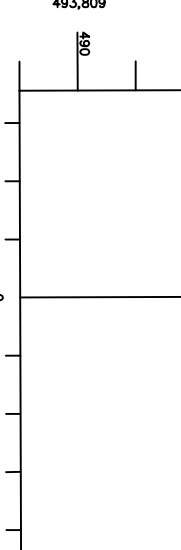
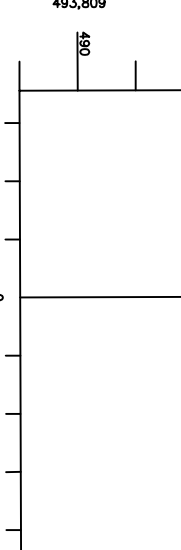
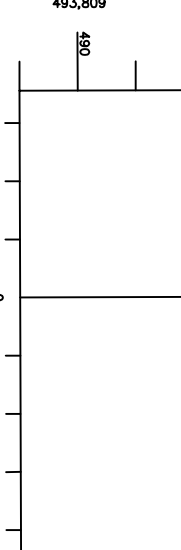
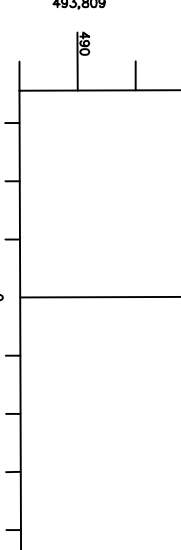
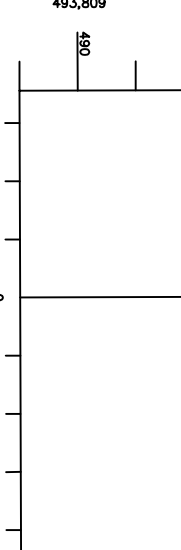
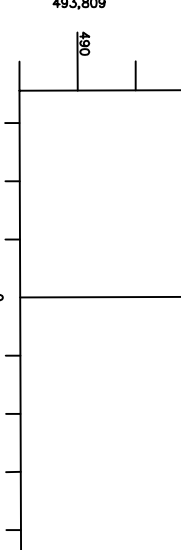
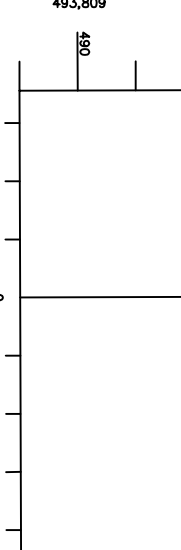
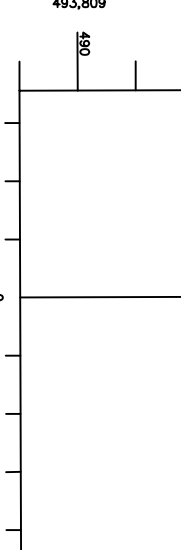
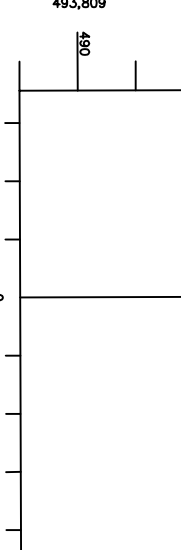
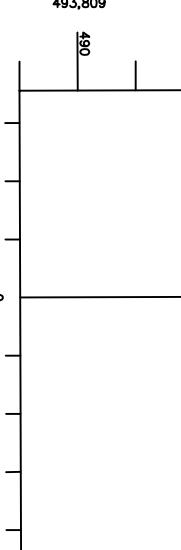
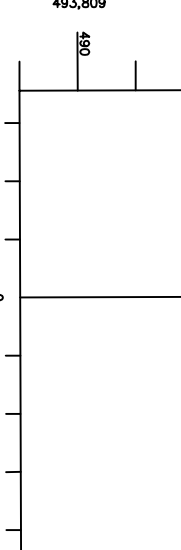
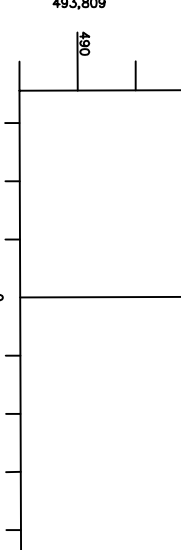
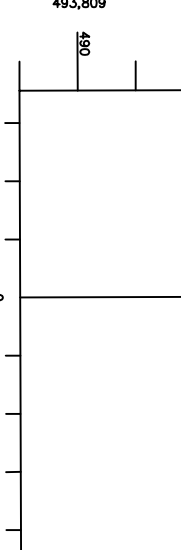
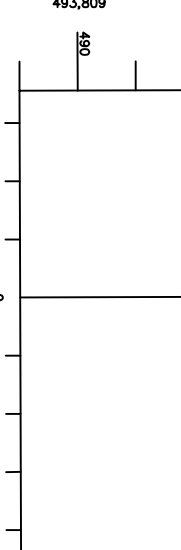
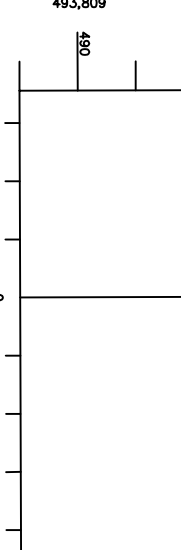
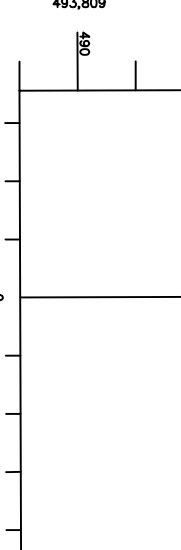
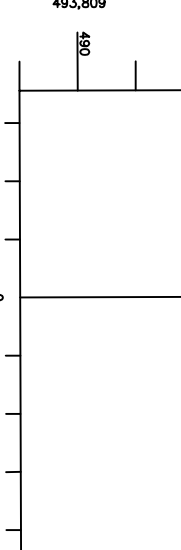
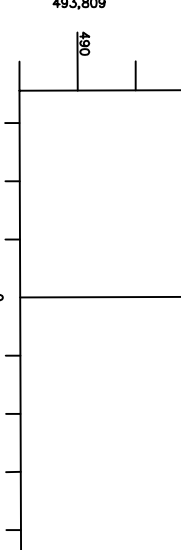
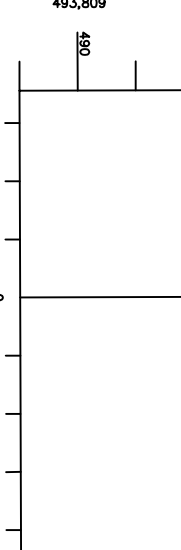
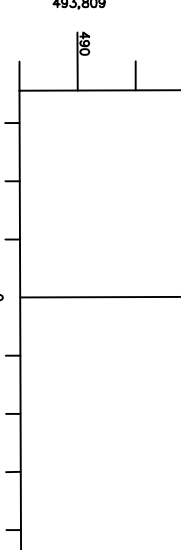
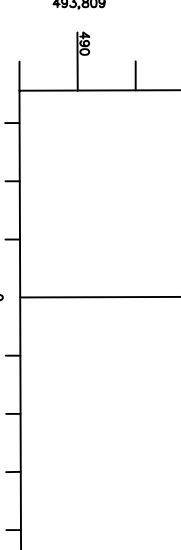
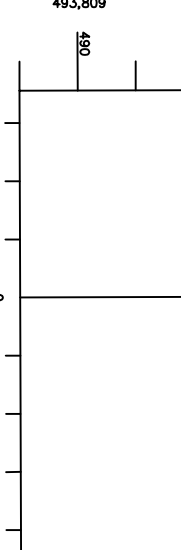
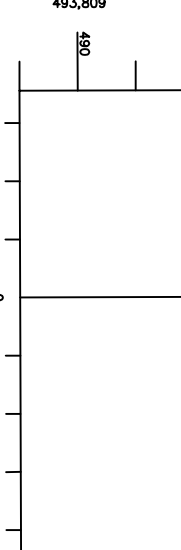
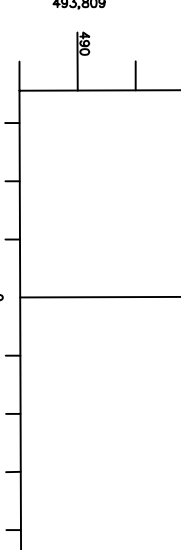
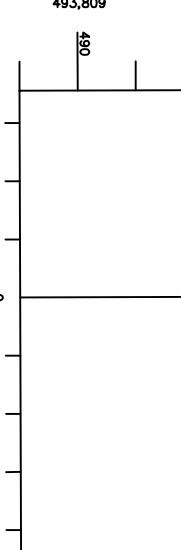
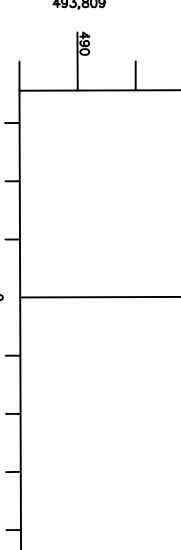
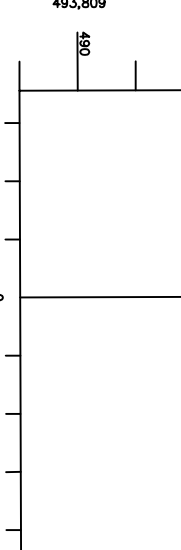
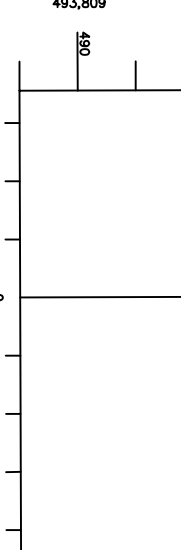
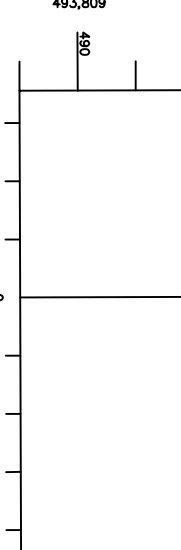
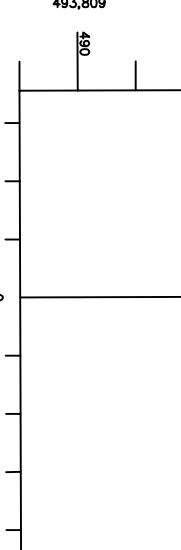
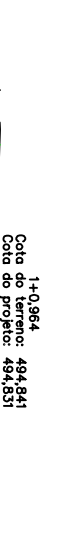
| Cotas do Projeto | Cotas do Terreno |
|------------------|------------------|
| 16,148           |                  |
| 501,863          |                  |
| 13,148           |                  |
| 502,013          |                  |
| 5,148            |                  |
| 494,013          | 5,241            |
| 5,148            | 494,881          |
| 494,013          |                  |
|                  | 3,721            |
|                  | 494,475          |
|                  | 2,625            |
|                  | 494,237          |
| 0,260            |                  |
| 494,258          |                  |
| 0,000            |                  |
| 493,911          | 494,246          |
|                  |                  |
|                  | 3,732            |
|                  | 494,077          |
| 5,148            | 5,096            |
| 493,809          | 494,045          |
| 5,148            | 5,252            |
| 493,809          | 494,019          |
| 5,148            |                  |
| 493,959          |                  |
| 6,648            |                  |
| 493,959          |                  |
| 6,648            |                  |
| 493,809          |                  |

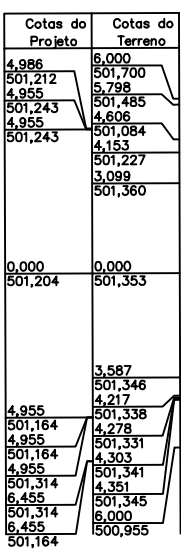
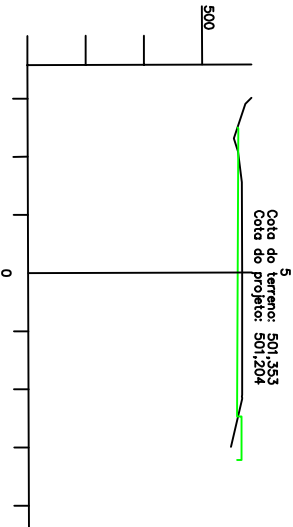
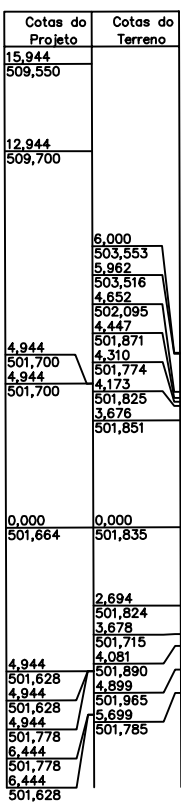
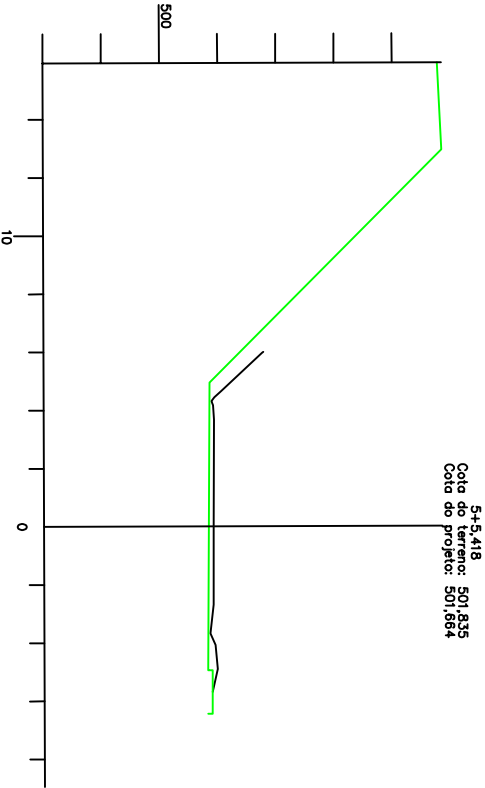
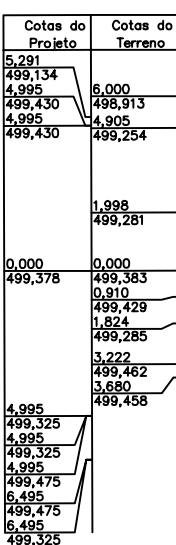
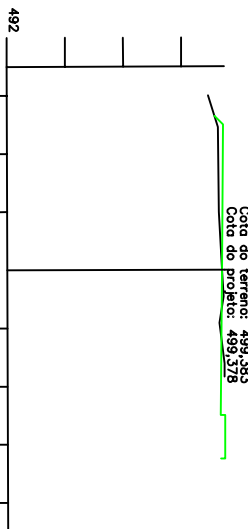
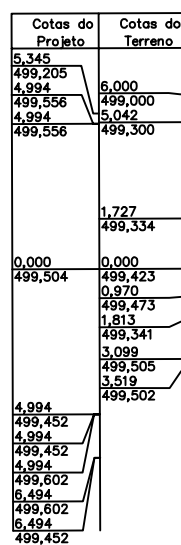
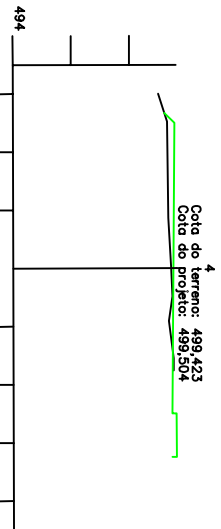
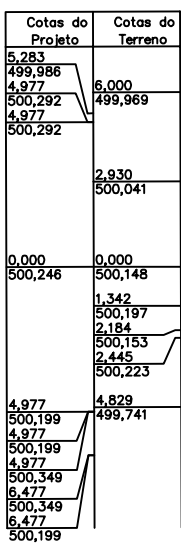
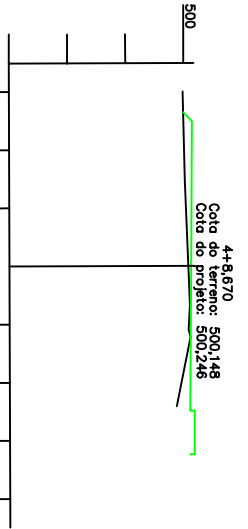
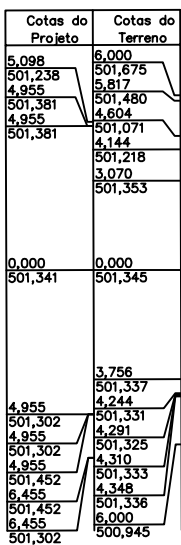
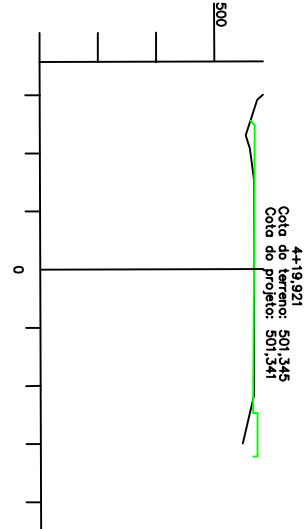
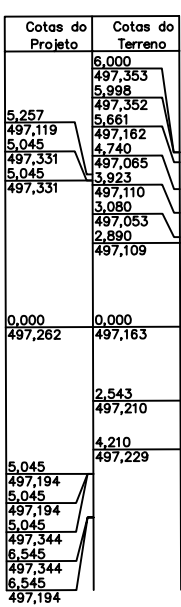
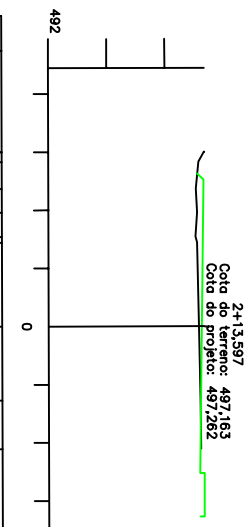
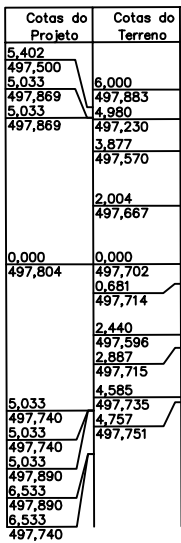
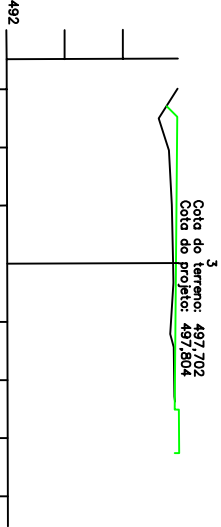
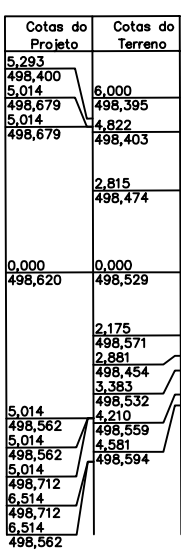
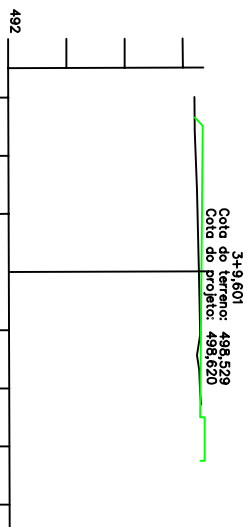
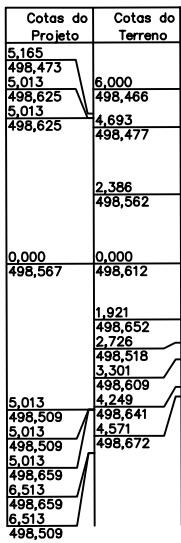
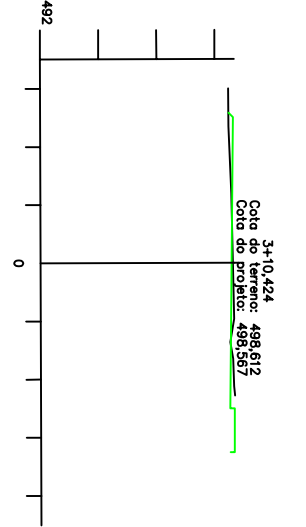




| Cotas do Projeto | Cotas do Terreno |
|------------------|------------------|
| 5,438            |                  |
| 496,227          |                  |
| 5,084            | 6,000            |
| 495,873          | 496,270          |
| 5,084            |                  |
| 495,873          |                  |
| 0,000            | 0,000            |
| 495,792          | 495,810          |
|                  |                  |
|                  | 3,477            |
|                  | 495,544          |
|                  | 3,558            |
|                  | 495,535          |
| 5,084            |                  |
| 495,711          | 3,576            |
| 5,084            | 495,545          |
| 495,711          | 3,608            |
| 5,084            | 495,539          |
| 495,861          |                  |
| 6,584            |                  |
| 495,861          |                  |
| 6,584            |                  |
| 495,711          |                  |

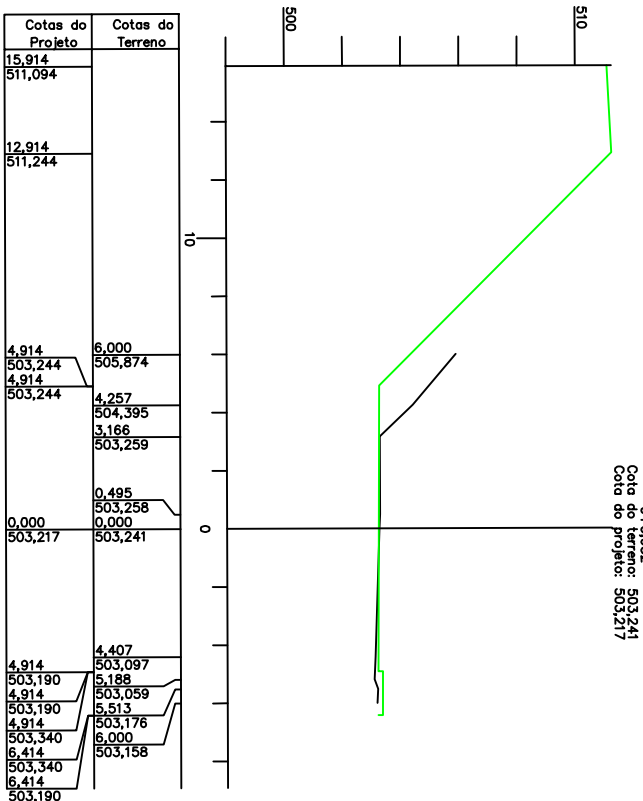
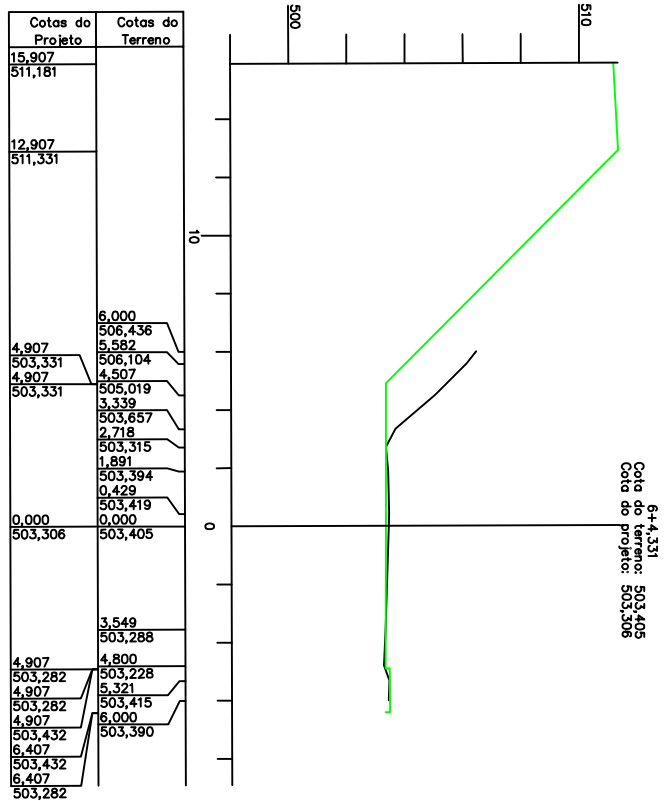
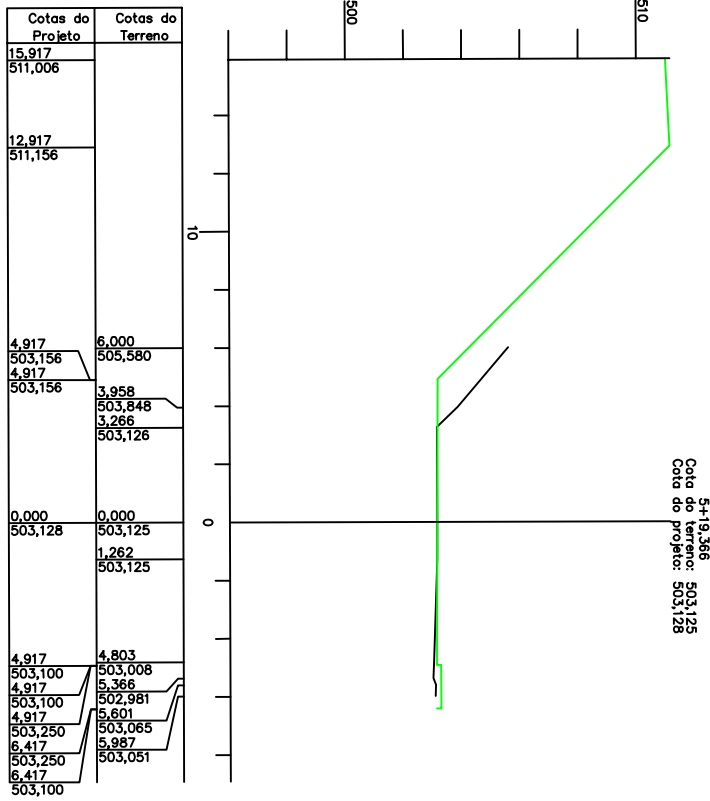
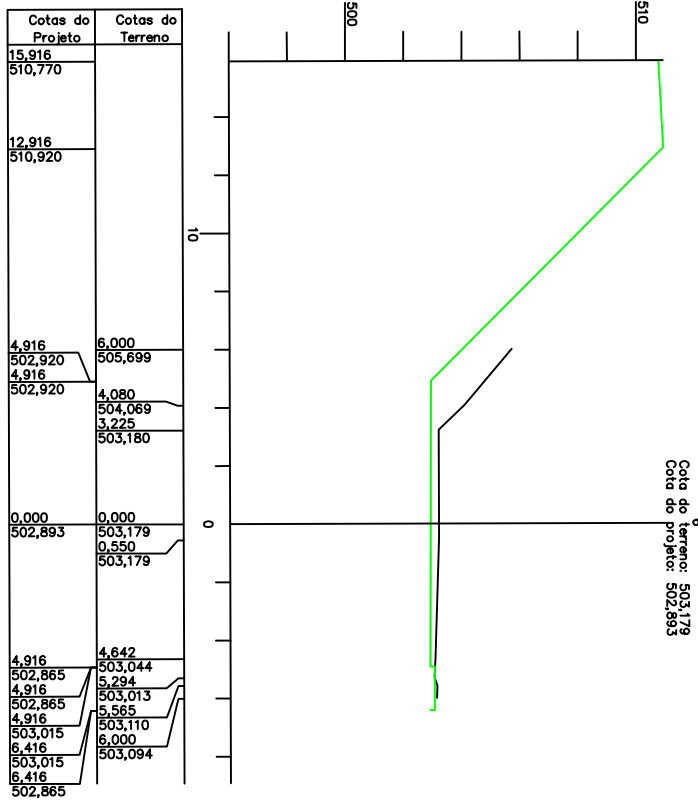
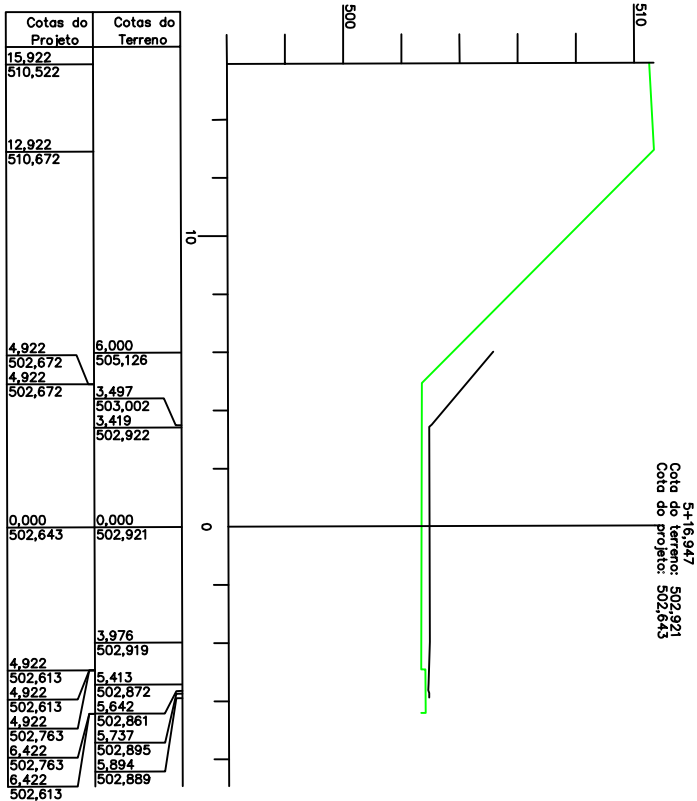
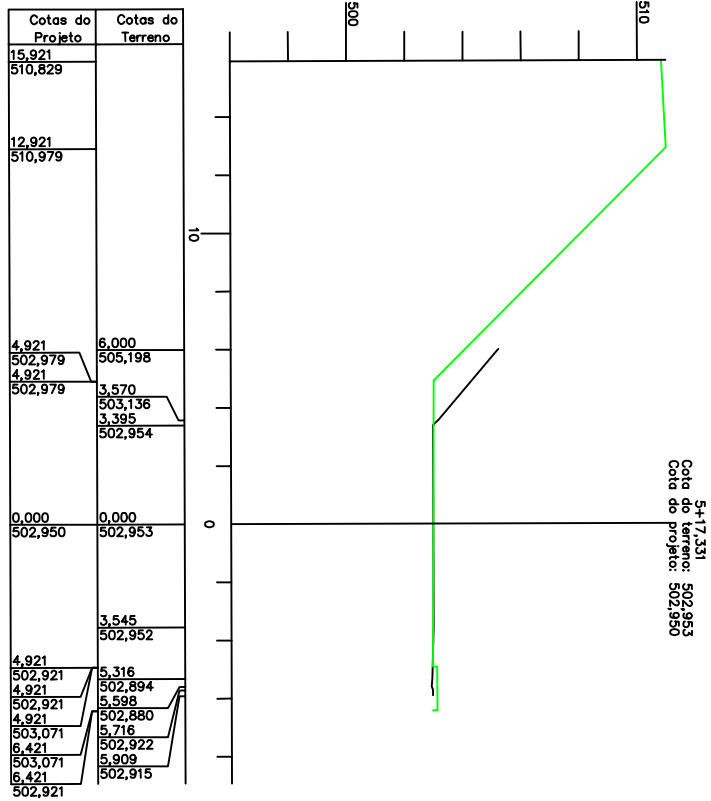


| Cotas do Projeto | Cotas do Terreno |
|------------------|------------------|
| 5,234            | 6,000            |
| 495,044          | 495,056          |
| 5,109            | 5,761            |
| 494,920          | 495,065          |
| 5,109            |                  |
| 494,920          |                  |
| 0,000            | 0,000            |
| 494,831          | 494,841          |
|                  | 0,358            |
|                  | 494,827          |
|                  |                  |
|                  | 2,889            |
|                  | 494,757          |
|                  | 2,932            |
|                  | 494,749          |
|                  | 2,939            |
| 5,109            |                  |
| 494,742          | 494,755          |
| 5,109            | 3,329            |
| 494,742          | 494,764          |
| 5,109            | 4,252            |
| 494,892          |                  |
| 6,609            | 4,463            |
| 494,892          | 494,709          |
| 6,609            |                  |
| 494,742          |                  |





|  |  |   |  |   |  |
|--|--|---|--|---|--|
|  <p>Av. Borges de Medeiros, 615 - Sala 104<br/>Getúlio Vargas - RS - CEP 99900-000<br/>Fone: 54-3341 3753 / 54-99950 5335</p> |  | Resp. Técnico:<br> |  | Cliente:<br>.....                             |  |
| Projeto :<br>Lauson Serafini   |  | Data :<br>Janeiro/2020  |  | Resp. Técnico :<br>Eng. Civil Lauson Serafini |  |
| Desenho :<br>Lucas Fernandes   |  | Escala :<br>1:1.300   |  | CREA/RS 123168-D                              |  |
| Aprovação :<br>-   |  | Revisão :<br>00   |  | Obra :<br>Pavimentação Asfáltica              |  |
| Prancha :<br>05  |  | Local :<br>Rua das Rosas  |  | CNPJ: 93.539.153/0001-92                      |  |
|  |  | Conteúdo :<br>Seções Transversais   |  |   |  |





SERVIÇOS DE ENGENHARIA

Av. Borges de Medeiros, 615 - Sala 104  
Getúlio Vargas - RS - CEP 99900-000  
Fone: 54-3341 3753 / 54-99950 5335

Resp. Técnico:

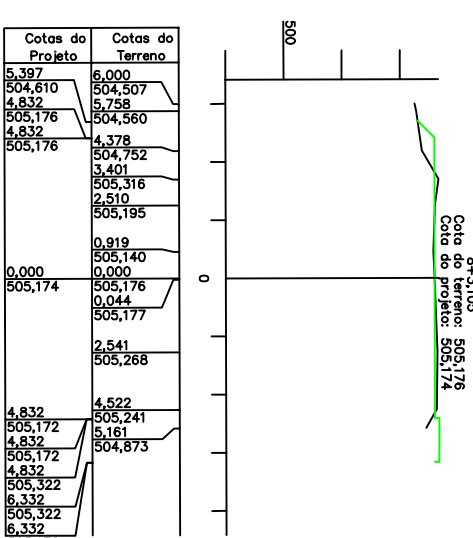
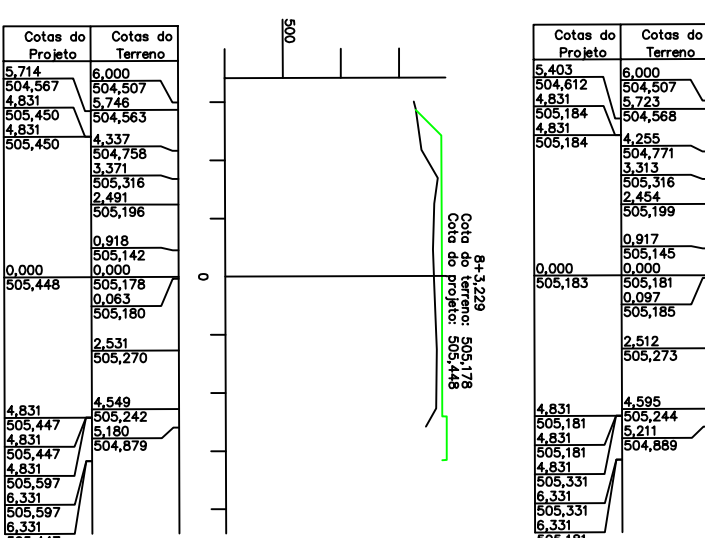
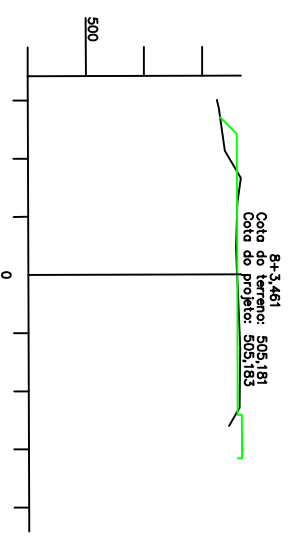
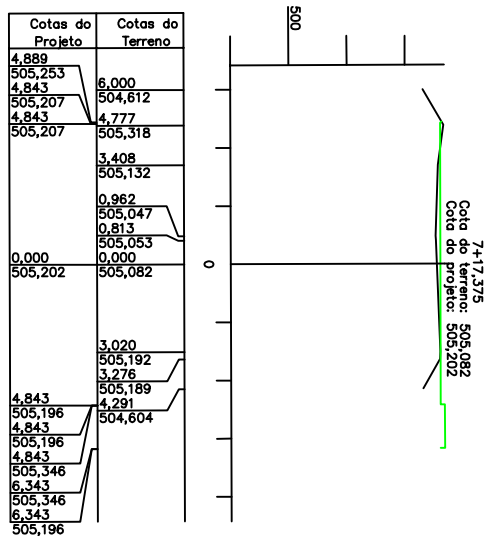
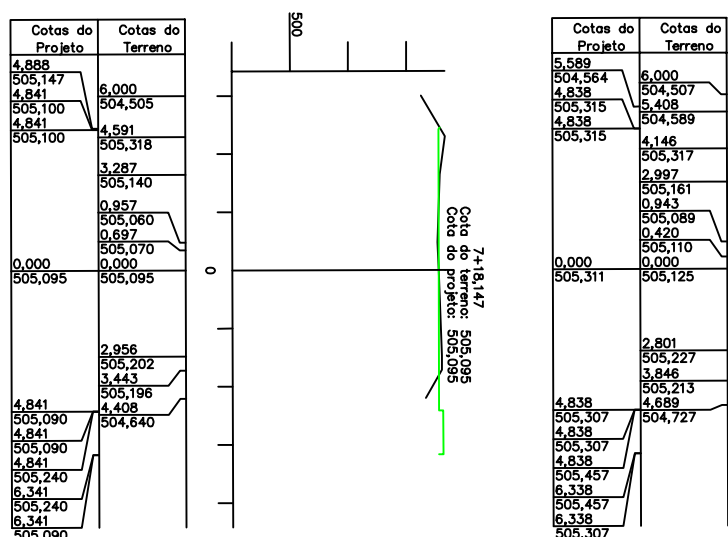
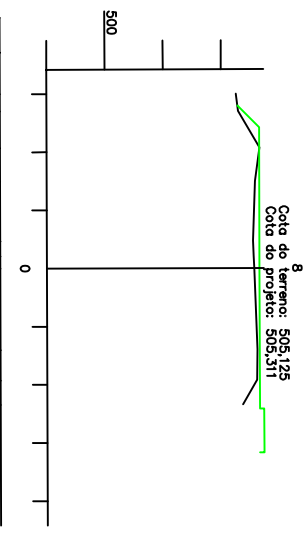
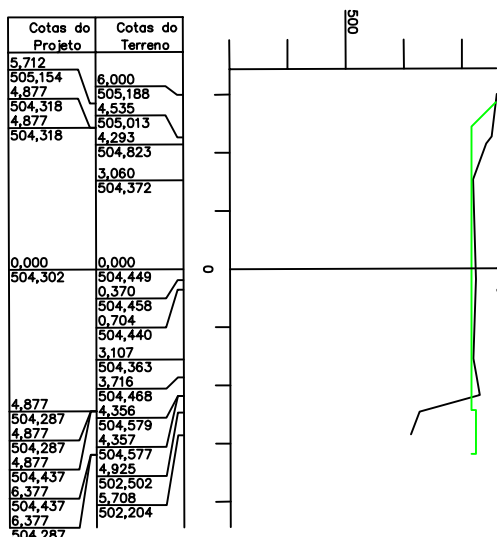
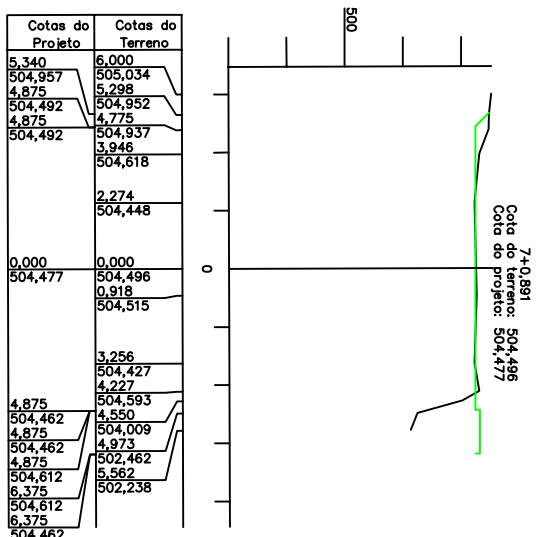
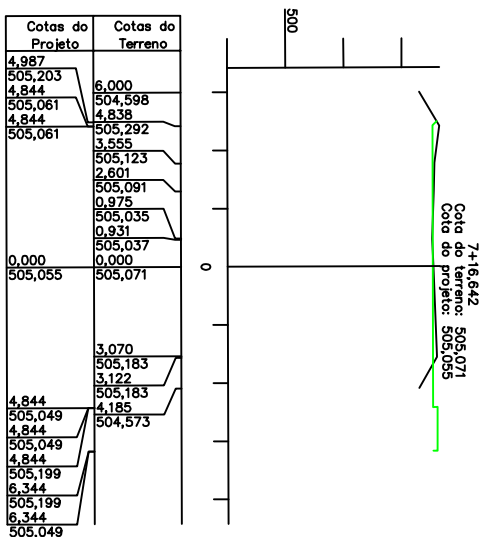
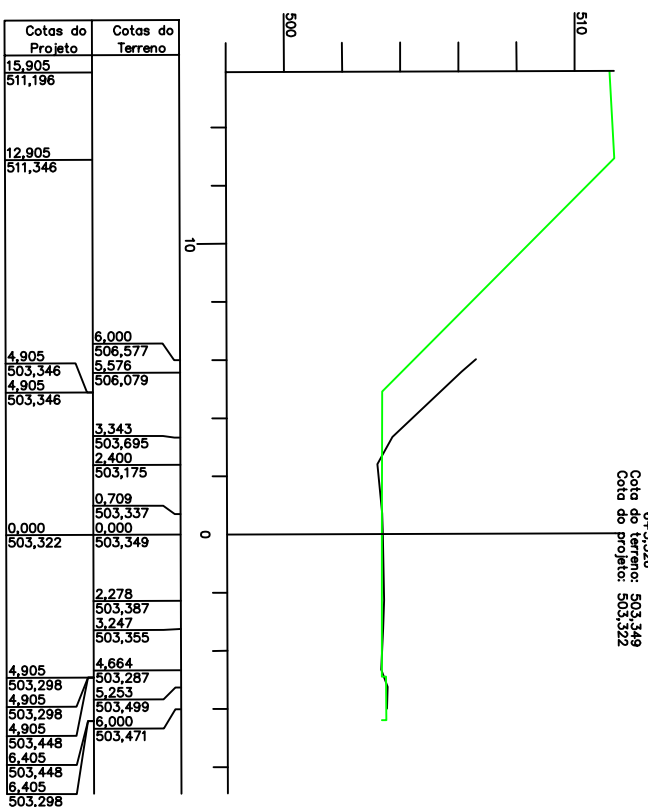
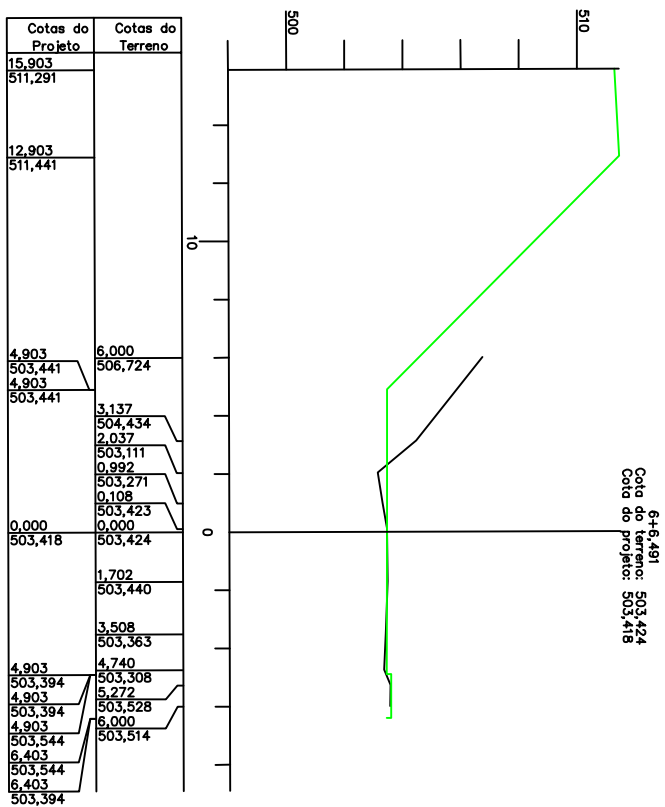
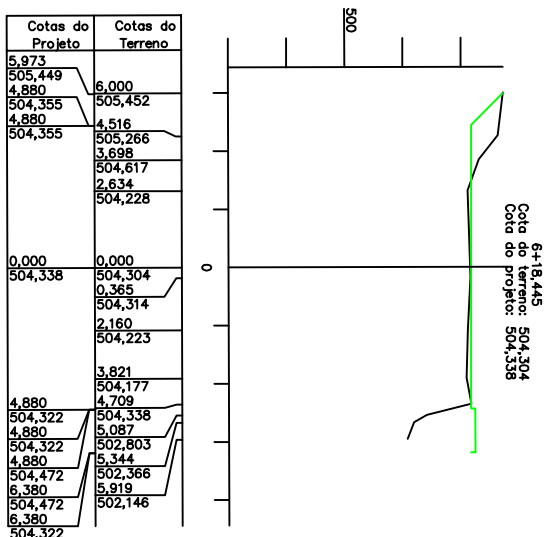
.....



Cliente:

.....

|                              |                        |   |                          |
|------------------------------|------------------------|---|--------------------------|
| Projeto :<br>Lauson Serafini | Data :<br>Janeiro/2020 | Resp. Técnico :<br>Eng. Civil Lauson Serafini | CREA/RS 123168-D         |
| Desenho:<br>Lucas Fernandes  | Escala :<br>1:1.300    | Cliente: Pref. Municipal de Barra do Rio Azul | CNPJ: 93.539.153/0001-92 |
| Aprovação:<br>-              | Revisão :<br>00        | Local :<br>Rua das Rosas                      |                          |
|                              | Prancha :<br>06        | Conteúdo:<br>Seções Transversais              |                          |

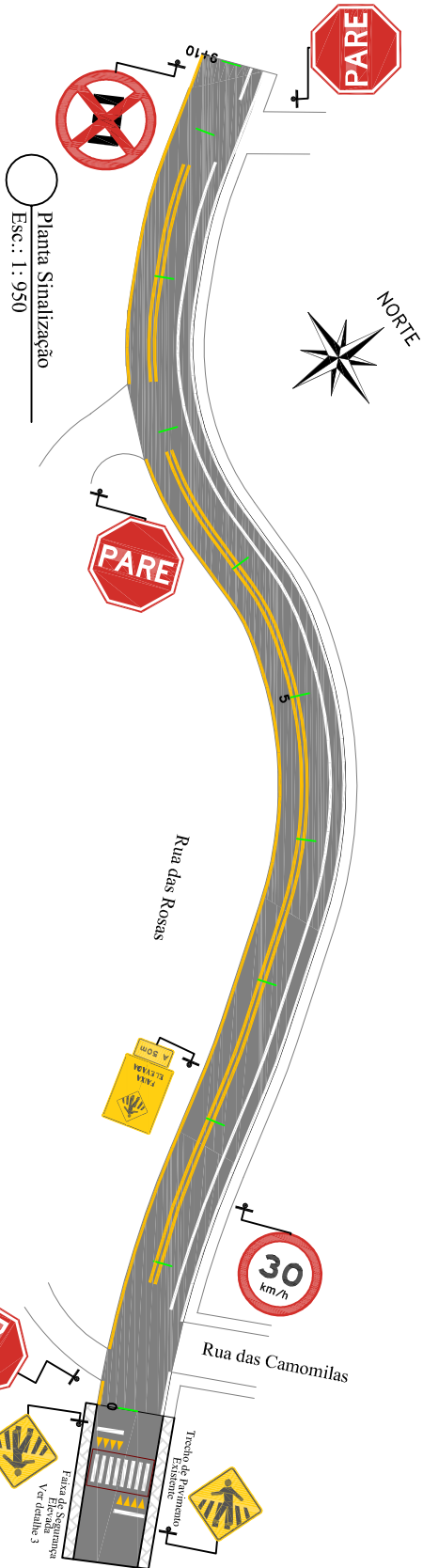




|   |   |  |                                 |
|---|---|--|---------------------------------|
| <div><p>SERVIÇOS DE ENGENHARIA</p><p>Av. Borges de Medeiros, 615 - Sala 104<br/>Getúlio Vargas - RS - CEP 99900-000<br/>Fone: 54-3341 3753 / 54-99950 5335</p></div> |   | <div>Resp. Técnico:</div> <div></div> | <div>Cliente:</div> <div></div> |
| <div>Projeto :<br/>Lauson Serafini</div>  | <div>Data :<br/>Janeiro/2020</div>          | <div>Resp. Técnico :<br/>Eng. Civil Lauson Serafini</div> <div>CREA/RS 123168-D</div>                                    |                                 |
| <div>Desenho:<br/>Lucas Fernandes</div>   | <div>Escala :<br/>1:1.300</div>             | <div>Cliente: Pref. Municipal de Barra do Rio Azul</div> <div>CNPJ: 93.539.153/0001-92</div>                             |                                 |
|   | <div>Obra:<br/>Pavimentação Asfáltica</div> |  |                                 |
|   | <div>Local :<br/>Rua das Rosas</div>        |  |                                 |
| <div>Aprovação:<br/>-</div>   | <div>Revisão :<br/>00</div>                 | <div>Conteúdo:<br/>Seções Transversais</div>   |                                 |
|   | <div>Plancha :<br/>07</div>                 |  |                                 |







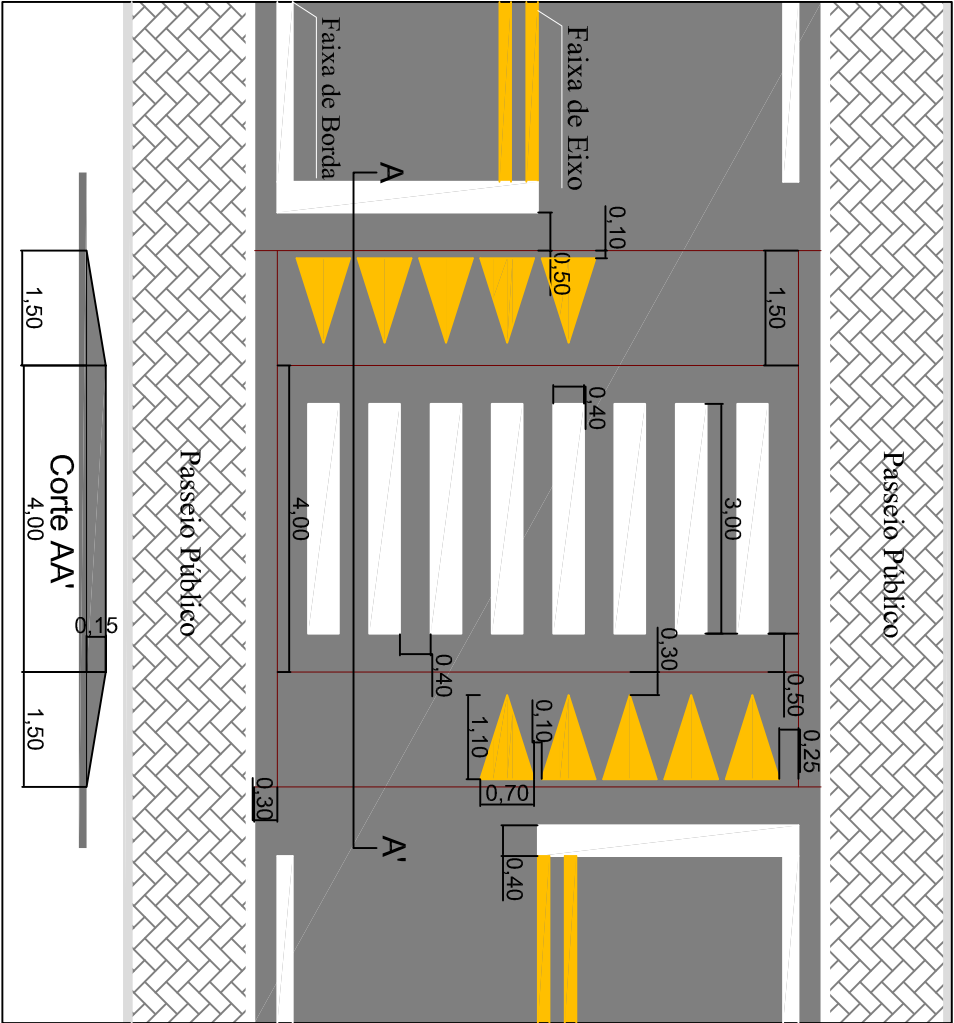
SINALIZAÇÃO VERTICAL

| SINAL | CÓDIGO    | NOME                        | QUANTIDADE |
|-------|-----------|-----------------------------|------------|
|       | 50cmX70cm | Faixa de Pedestres Eevada   | 02         |
|       | 50cmX70cm | Faixa de Pedestres Eevada   | 01         |
|       | 15cmX30cm | Complementar de 50 metros   | 01         |
|       | R - 19    | Velocidade máxima permitida | 01         |
|       | R -6c     | Proibido parar e estacionar | 01         |
|       | R - 1     | Parada obrigatória          | 03         |

SINALIZAÇÃO HORIZONTAL

| SINAL. HORIZ.                                 | EXTENSÃO(m) | ÁREA (m²) |
|---|-------------|-----------|
| Faixa de Eixo<br>Cor Amarela<br>Largura 12cm  | 555,10      | 66,61     |
| Faixa de Borda<br>Cor Branca<br>Largura 15cm  | 310,70      | 46,57     |
| Faixa de Borda<br>Cor Amarela<br>Largura 15cm | 311,51      | 46,72     |
| Faixa Elevada<br>Pedestres<br>Detalhe 12      | -           | 19,22     |
| Pintura do<br>Meio fio MFC 05                 | 327,94      | 78,71     |

FAIXA DE SEGURANÇA ELEVADA  
Detalhe 3



Av. Borges de Medeiros, 615 - Sala 104  
Getúlio Vargas - RS - CEP 99900-000  
Fone: 54-3341 3753 / 54-99950 5335

Resp. Técnico:

Cliente:

Projeto :  
Lauson Serafini

Data :  
Janeiro/2020

Resp. Técnico :  
Eng. Civil Lauson Serafini

CREA/RS 123168-D

Desenho:  
Lucas Fernandes

Escala :  
Indicada

Cliente: Pref. Municipal de Barra do Rio Azul

CNPJ: 93.539.153/0001-92

Aprovação:  
-

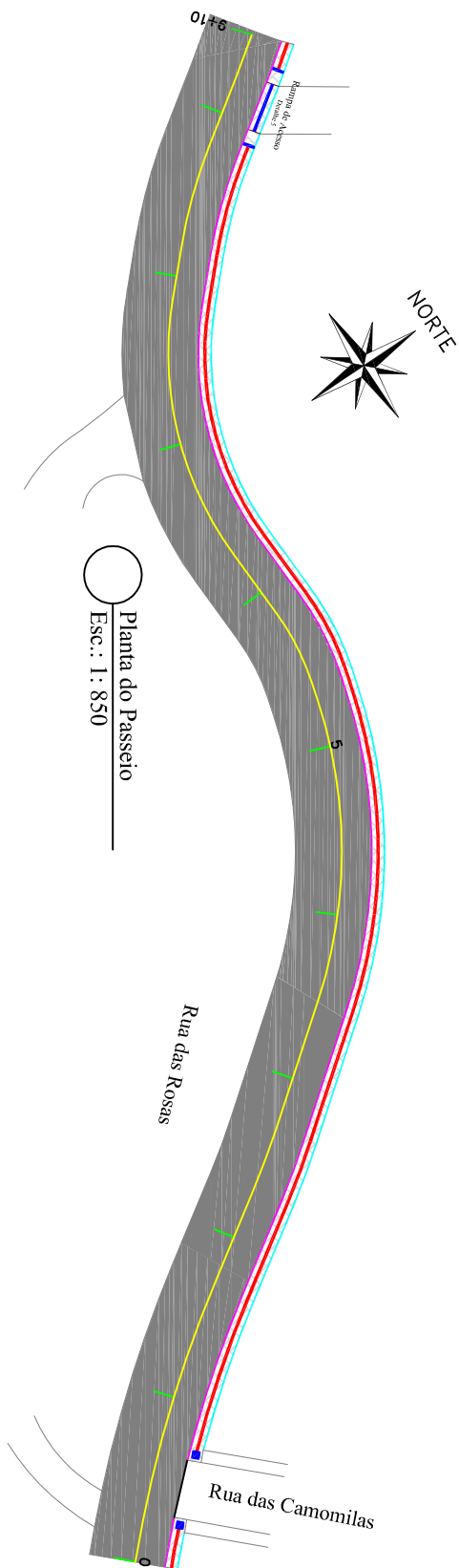
Revisão :  
00

Obra:  
Pavimentação Asfáltica

Local :  
Rua das Rosas

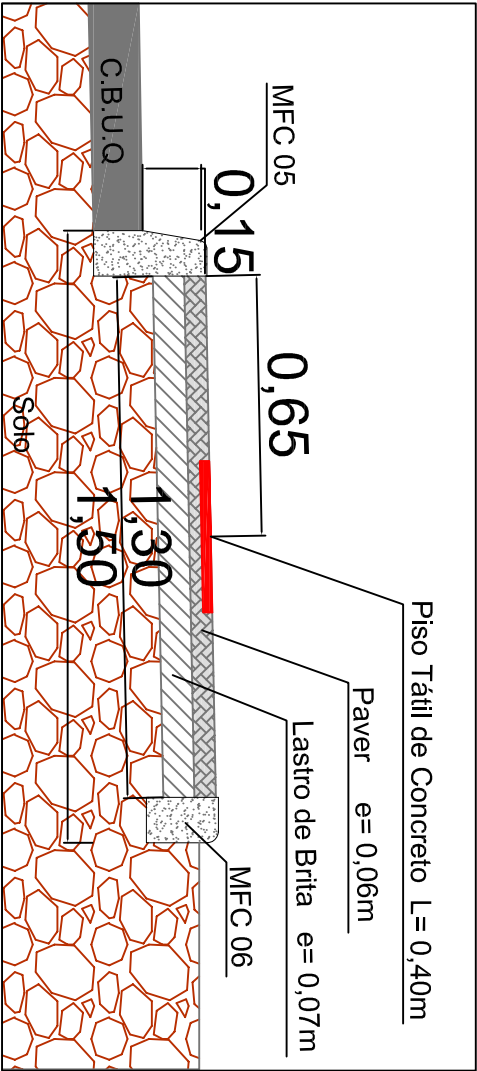
Prancha :  
9

Conteúdo:  
Planta de Sinalização Viária



- LEGENDA:
- Meio Fio a ser Executado tipo MFC 05
  - Meio Fio a ser Executado tipo MFC 06
  - Piso Tátil de Alerta
  - Piso Tátil Direcional

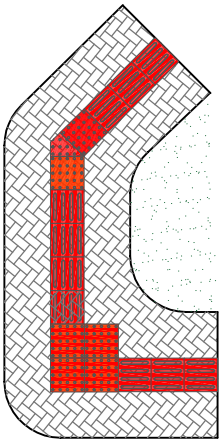
## Corte Passeio



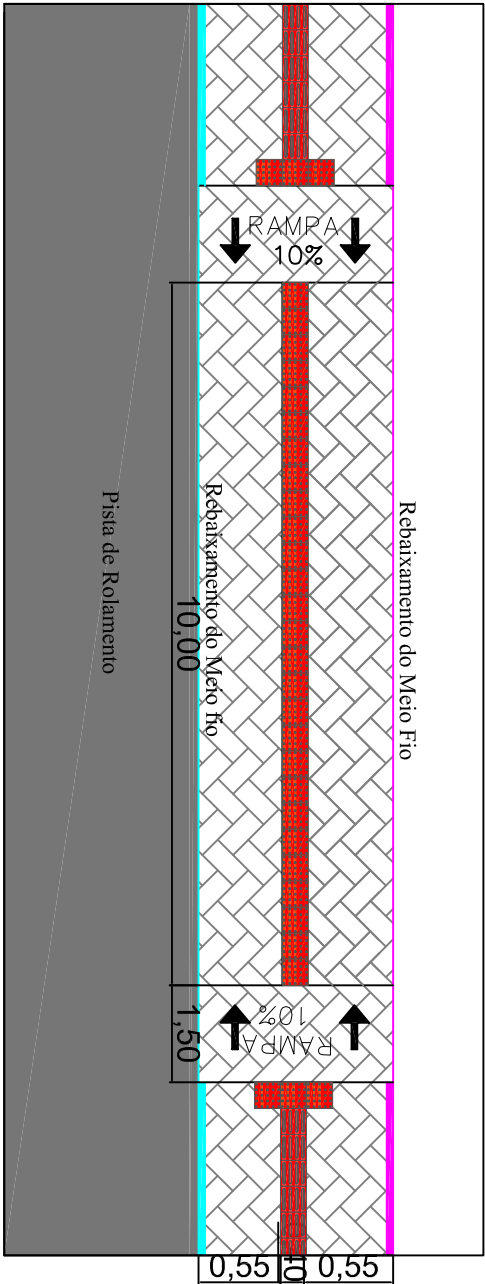
### PASSEIO E ACESSIBILIDADE


| TIPO DO PISO  | EXTENSÃO | UNIDADES     | ÁREA (m²) | Vol.(m³) |
|---|----------|--------------|-----------|----------|
| Piso Tátil de Alerta<br>Cor Vermelha<br>Concreto 40x40x2,5cm  | 10,20    | 23,00 Unid   | 4,08      | -        |
| Piso Tátil Direcional<br>Cor Vermelha<br>Concreto 40x40x2,5cm | 172,80   | 790,65 Unid. | 69,12     | -        |
| Paver 20x10x6cm   | -        | -            | 237,90    |          |
| Lastro de Brita(7cm)  | -        | -            | -         | 16,65    |
| Meio fio MFC 05   | 183,00   | -            | -         | -        |
| Meio fio MFC 06   | 183,00   | -            | -         | -        |

### CURVAS DE ACESSIBILIDADE Detalhe 11



## Rampa de Acesso Detalhe 5





SERVIÇOS DE ENGENHARIA  
Av. Borges de Medeiros, 615 - Sala 104  
Getúlio Vargas - RS - CEP 99900-000  
Fone: 54-3341 3753 / 54-99950 5335

Resp. Técnico:

.....

Cliente:

.....

Projeto :  
Lauson Serafini

Data :  
Janeiro/2020

Resp. Técnico :  
Eng. Civil Lauson Serafini

CREA/RS 123168-D

Desenho:  
Lucas Fernandes

Escala :  
Indicada

Cliente: Pref. Municipal de Barra do Rio Azul

CNPJ: 93.539.153/0001-92

Aprovação:  
-

Revisão :  
00

Obra:  
Pavimentação Asfáltica

Prancha :  
10

Local :  
Rua das Rosas

Conteúdo:  
Planta de Passeio e Acessibilidade