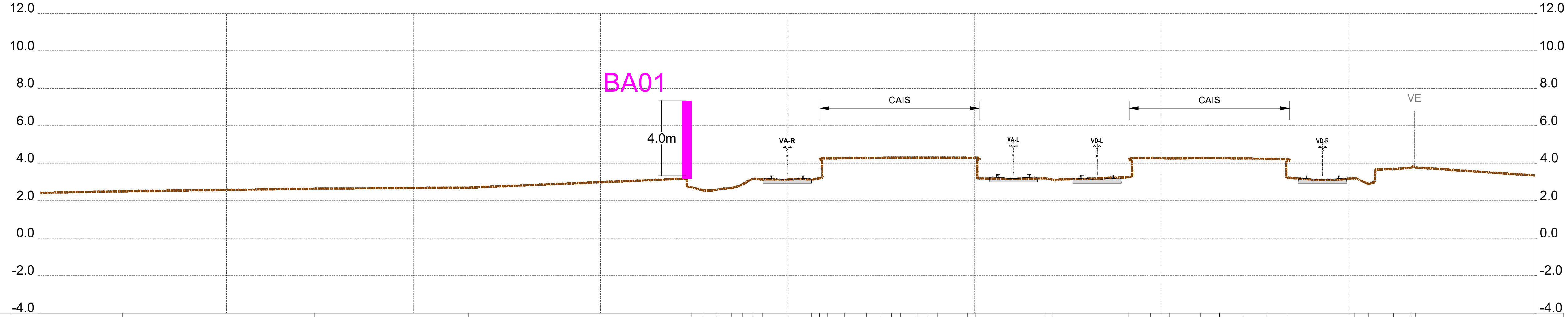
ESTAÇÃO DE ALVERCA



EXISTENTE – CARRIL (face guiamento) TERRENO NATURAL

Dist.	Cota
-35.560	2.506
-25.291	2.644
-17.049	2.702
-5.133	2.721
-4.443	2.549
-3.756	2.598
-2.993	2.669
-2.373	2.913
-1.828	3.156
-1.321	3.140
0.000	3.131
1.301	3.122
1.737	4.177
2.155	4.262
3.068	4.272
4.258	4.286
5.066	4.294
5.574	4.303
6.071	4.305
6.963	4.305
7.528	4.304
8.063	4.303
9.656	4.294
10.064	4.300
13.753	3.199
14.223	3.122
18.284	4.164
19.454	4.276
20.446	4.263
22.121	4.271
23.130	4.274
24.395	4.259
25.703	4.243
26.696	3.238
30.365	3.215
31.112	2.899
32.443	3.685
33.425	3.773
33.607	3.779

PROJETO – CARRIS

Cota	3.345	3.345	3.404	3.404	3.350	3.350	3.343	3.343
Dist.	0.000		12.100		16.577		28.638	

PROJETO – TERRAPLENAGEM

Cota	
Dist.	

PROJETO – DRENAGEM

Cota	
Dist.	

Pk 21+775.000
Km 21+774.968

P001

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

DESENHO 2

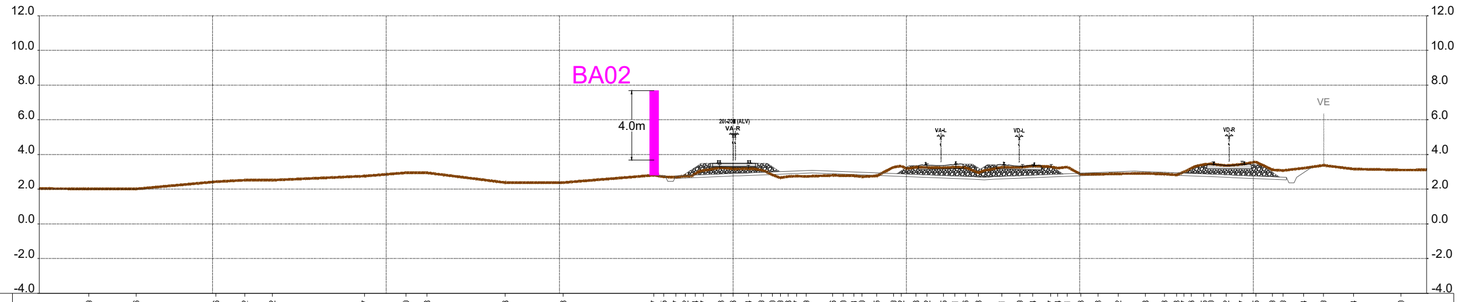
BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 01

Km 21+752 ao Km 21+787

FOLHA 1/45

0 5 10m

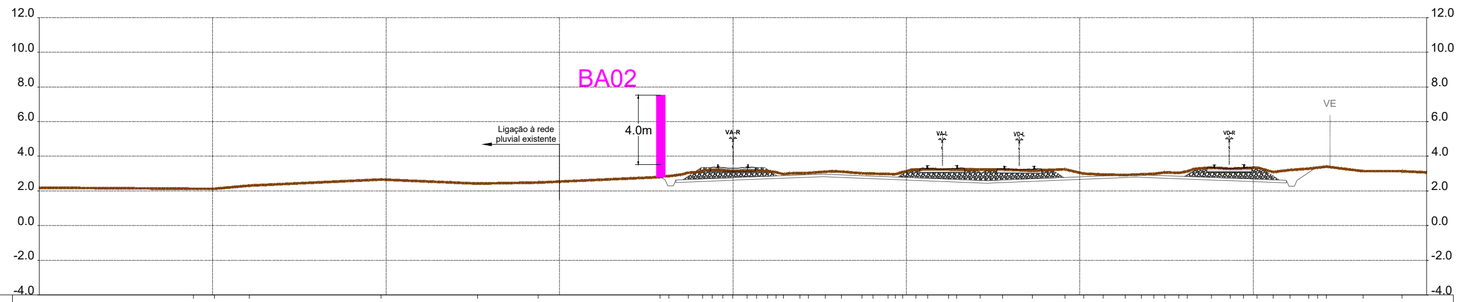
Escala:
1:250



EXISTENTE	CARRIL (face guiamento) TERRENO NATURAL	Cota	2.019 2.016 2.436 2.522 2.522 2.757 2.950 2.948 2.383 2.383 2.807 2.715 2.687 2.727 2.884 3.077 3.243 3.173 3.394 3.109 3.030 2.830 2.723 2.753 2.739 2.796 2.760 2.777 2.720 2.765 3.260 3.342 3.268 3.452 3.235 3.271 3.346 3.263 3.261 3.259 3.344 3.287 3.214 3.281 2.863 2.863 2.892 2.908 2.878 2.937 2.905 3.455 3.362 3.575 3.437 3.119 3.079 3.214 3.379 3.164 3.110
		Dist.	-37.131 -34.415 -28.609 -26.140 -26.563 -21.235 -18.857 -17.641 -13.128 -8.788 -4.559 -4.001 -3.289 -2.243 -2.177 -1.713 -0.691 0.000 0.891 1.631 2.270 2.693 3.189 3.972 4.228 5.754 6.984 7.777 7.433 8.286 9.254 9.694 10.556 11.196 12.145 12.602 13.945 14.153 15.488 16.544 17.289 18.316 18.731 19.270 20.052 21.050 22.217 23.765 24.877 25.609 26.442 27.153 27.558 28.438 29.344 30.142 31.094 31.715 32.801 34.044 35.779 38.516
PROJETO	CARRIS	Cota	3.663 3.663 3.549 3.594 3.564 3.529 3.578 3.585
		Dist.	0.000 11.962 16.522 28.605
	TERRAPLENAGEM	Cota	2.805 2.779 2.446 2.446 2.779 2.911 3.093 2.725 2.686 2.721 3.043 2.825 2.603 2.603 2.603 2.603
		Dist.	-4.548 -3.604 -3.154 -3.154 -3.304 0.000 4.564 13.776 14.492 15.111 23.167 28.605 31.102 32.052 32.052 33.388
	DRENAGEM	Cota	
		Dist.	

Pk 21+850.000
Km 21+850.404

P004



EXISTENTE	CARRIL (face guiamento) TERRENO NATURAL	Cota	2.127 2.126 2.310 2.861 2.427 2.487 2.800 2.853 3.057 3.163 3.227 3.200 3.177 3.165 3.149 3.096 2.969 2.966 3.007 3.038 3.113 3.120 3.017 3.001 2.977 2.944 3.090 3.239 3.462 3.245 3.464 3.235 3.248 3.168 3.252 3.001 2.947 2.920 2.959 2.988 3.073 3.152 3.124 3.350 3.286 3.528 3.355 3.093 3.209 3.286 3.313 3.404 3.199 3.159
		Dist.	-31.094 -29.905 -27.888 -20.261 -4.729 -1.273 -4.007 -3.693 -2.566 -1.746 -1.254 -0.574 0.000 1.349 1.996 2.469 2.966 3.007 4.963 5.329 6.255 7.434 8.081 8.953 9.765 10.546 11.231 12.431 12.884 14.266 15.544 17.270 19.153 20.234 21.353 22.620 23.561 24.261 24.916 25.719 26.476 27.586 28.676 29.429 30.217 31.149 32.120 33.196 33.700 34.217 36.348 38.572
PROJETO	CARRIS	Cota	3.519 3.519 3.458 3.473 3.431 3.429 3.494 3.494
		Dist.	0.000 12.066 16.507 28.617
	TERRAPLENAGEM	Cota	2.810 2.836 2.302 2.302 2.836 2.768 2.977 2.960 2.601 2.949 2.740 2.608 2.608 3.330
		Dist.	-4.162 -3.920 -3.470 -3.470 -3.300 0.000 5.240 5.664 14.655 23.378 28.617 31.917 32.517 33.600
	DRENAGEM	Cota	
		Dist.	

Pk 21+825.000
Km 21+825.404

P003

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

DESENHO 2

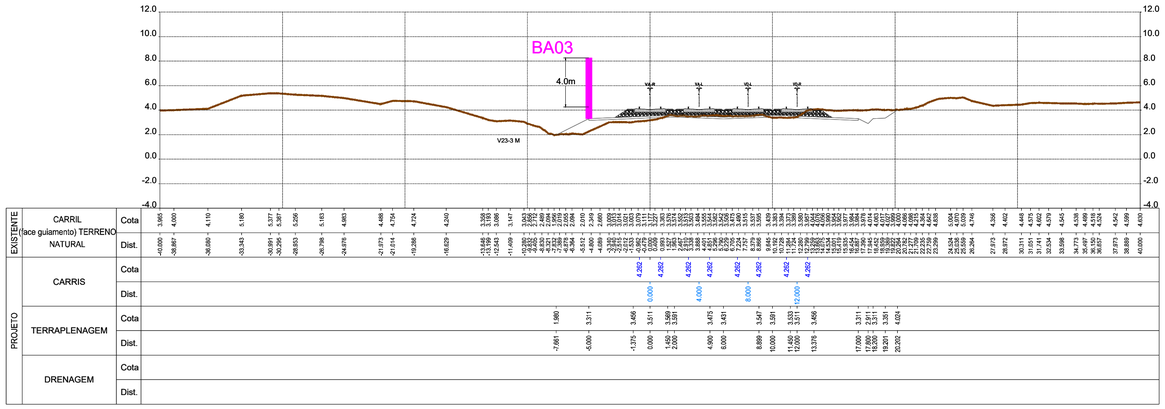
BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 02

Km 21+818 ao Km 21+855

FOLHA 2/45

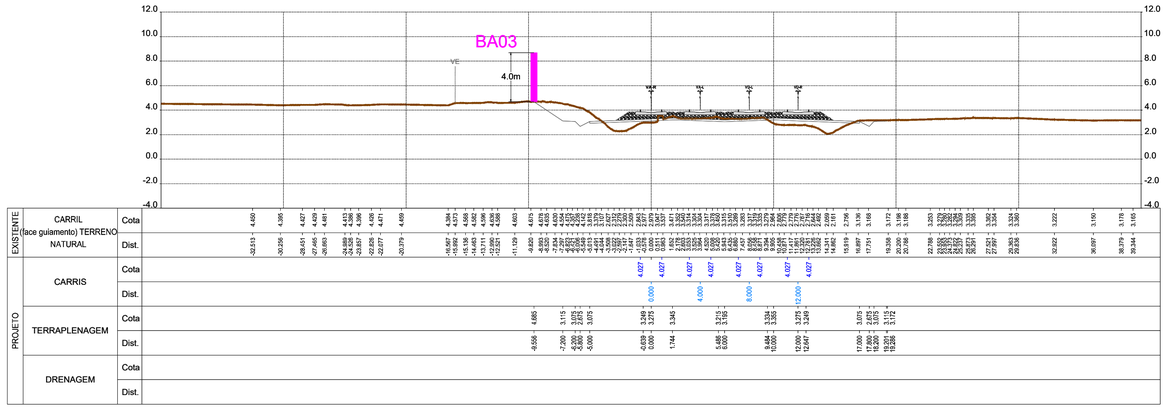
0 5 10m

Escala:
1:250



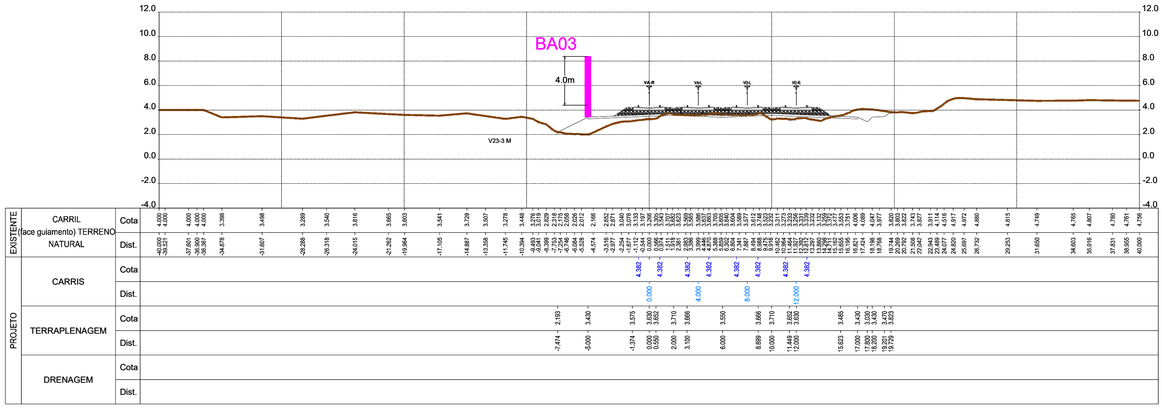
Pk 23+375.000
Km 23+371.375

P065



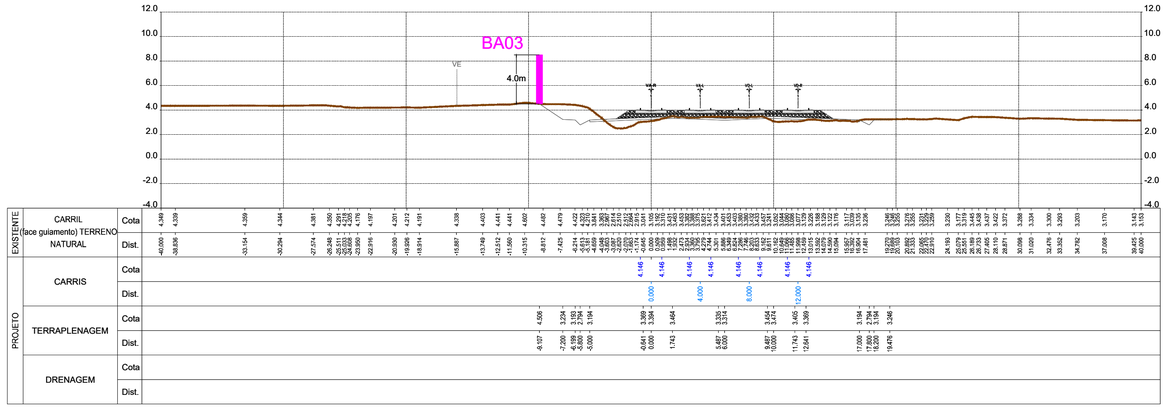
Pk 23+425.000
Km 23+420.639

P067



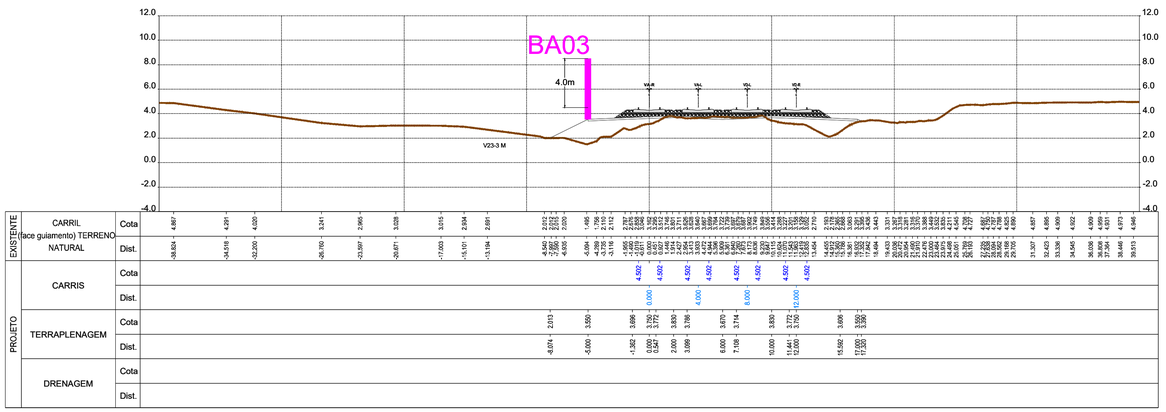
Pk 23+350.000
Km 23+346.375

P064



Pk 23+400.000
Km 23+395.641

P066



Pk 23+325.000
Km 23+321.366

P063

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

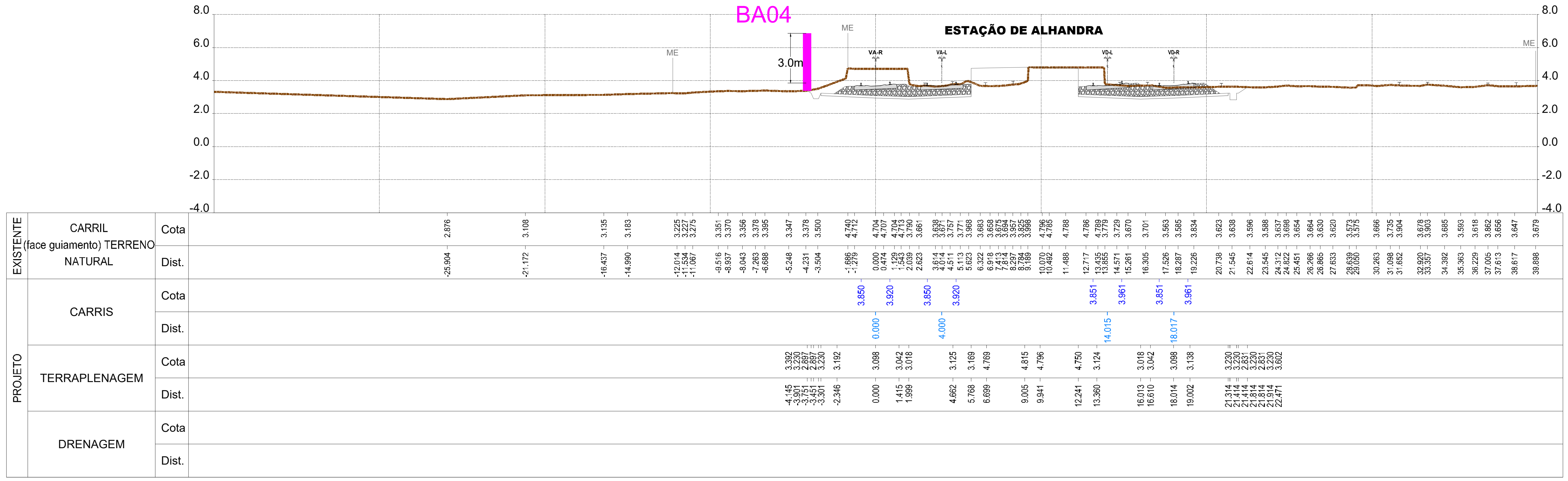
LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

DESENHO 2

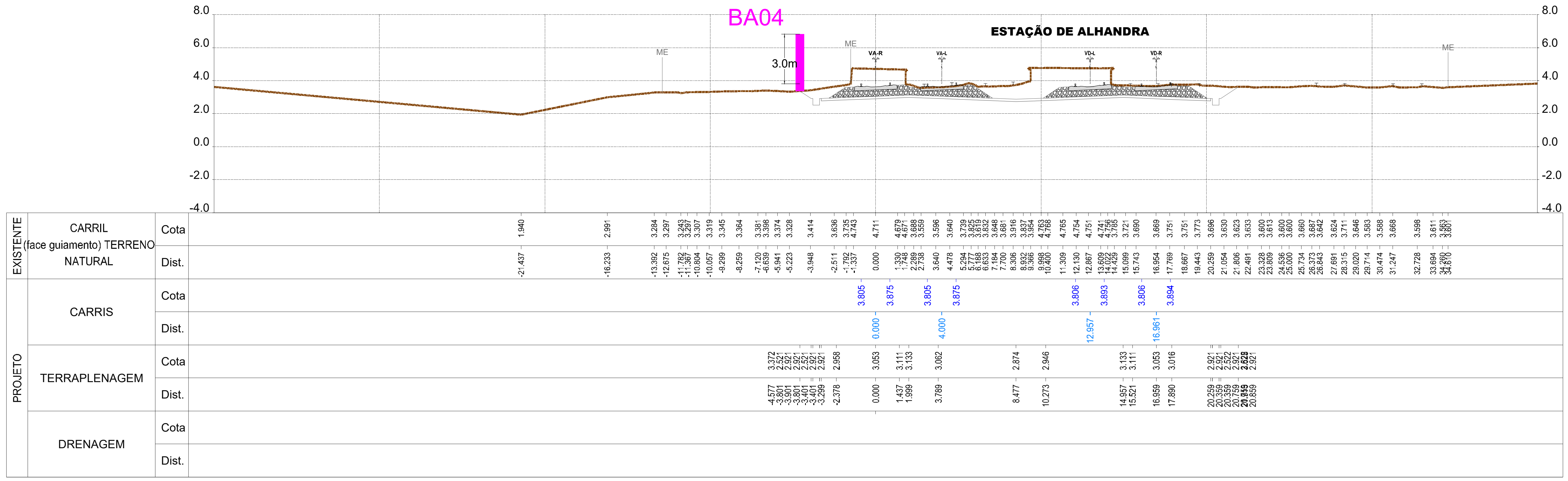
BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 03
Km 23+311 ao Km 23+424
FOLHA 3/45

0 5 10m
Escala:
1:250



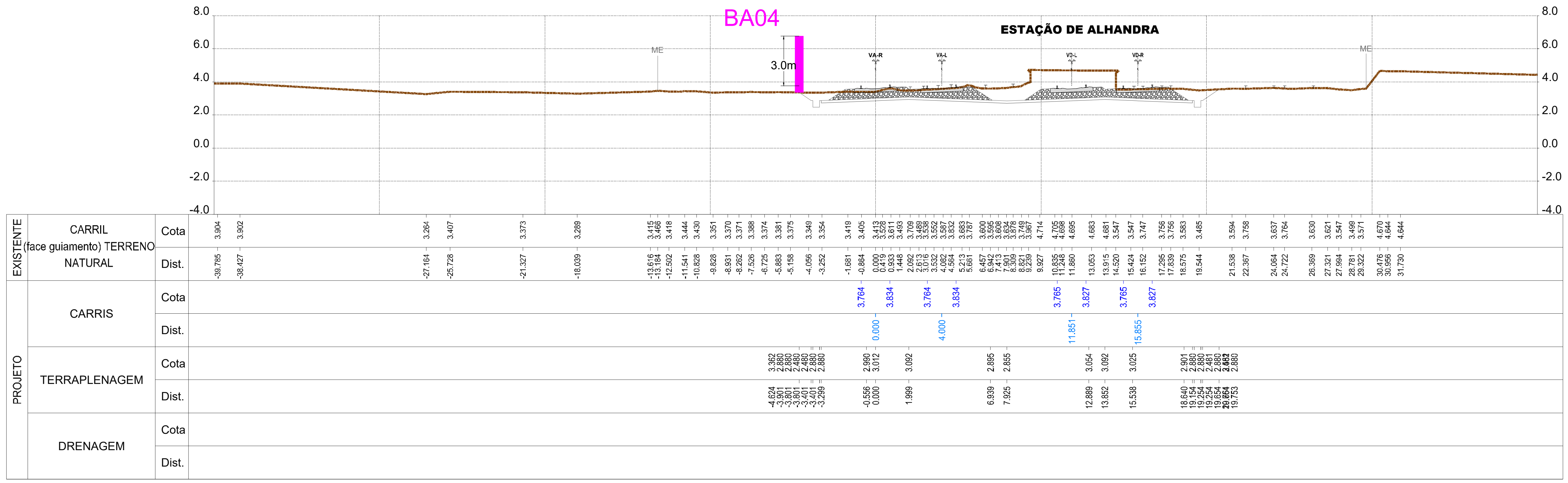
Pk 25+925.000
Km 25+913.546

P167



Pk 25+900.000
Km 25+888.591

P166



Pk 25+875.000
Km 25+865.838

P165

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

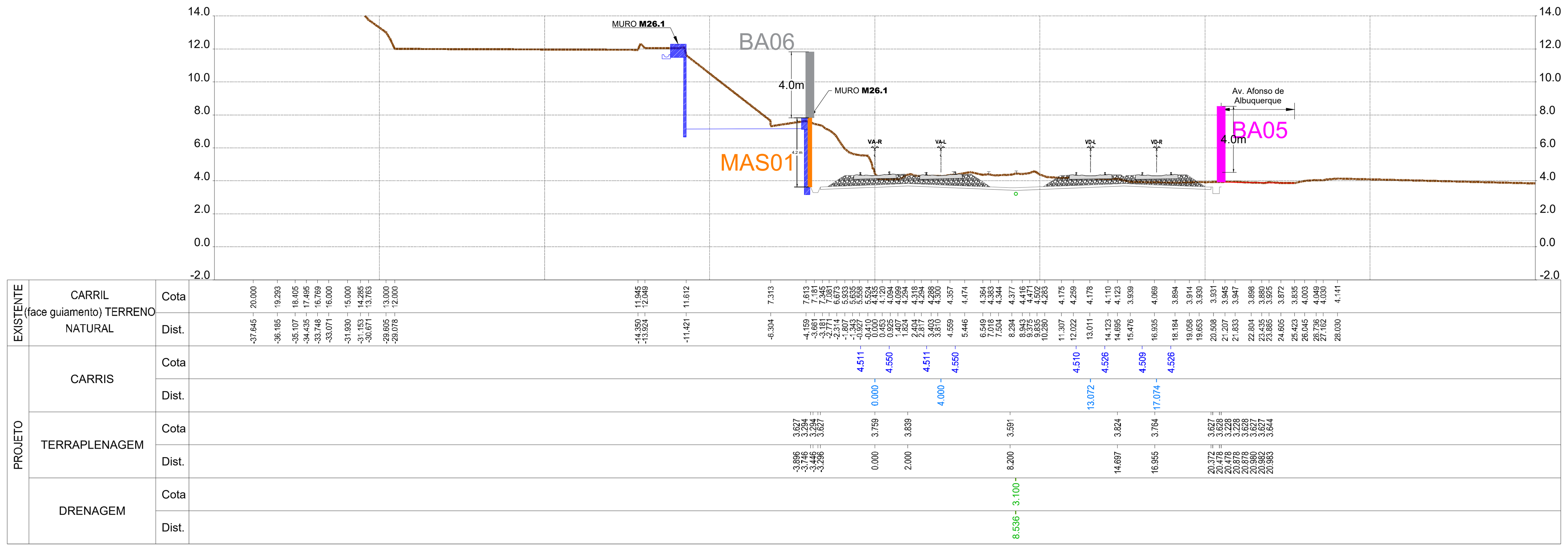
DESENHO 2

BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 04

Km 25+865 ao Km 25+933

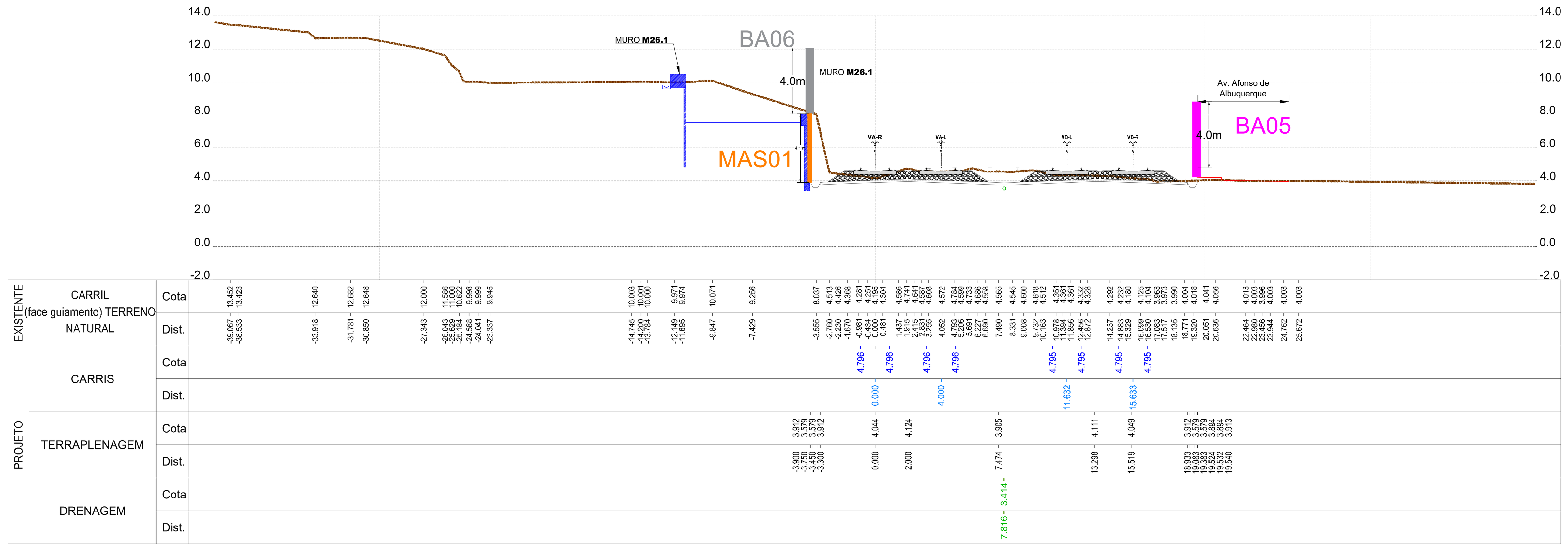
FOLHA 4/45

0 5 10m
Escala:
1:250



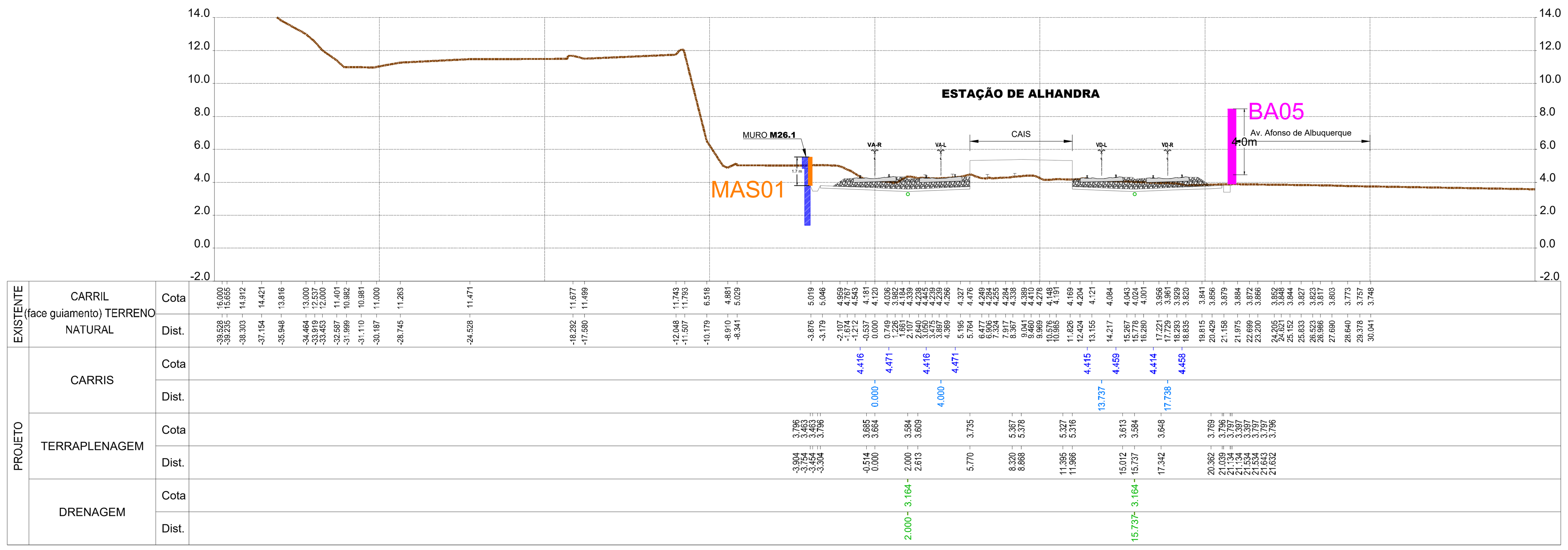
Pk 26+125.000
Km 26+114.851

P175



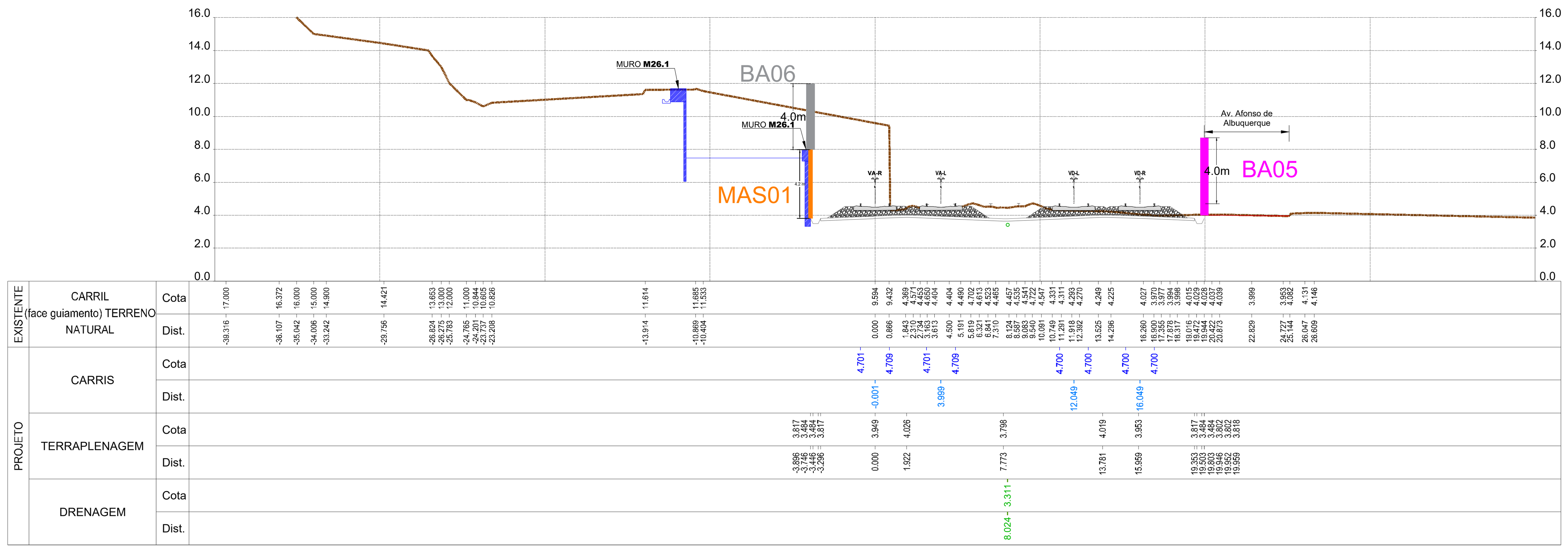
Pk 26+200.000
Km 26+189.700

P178



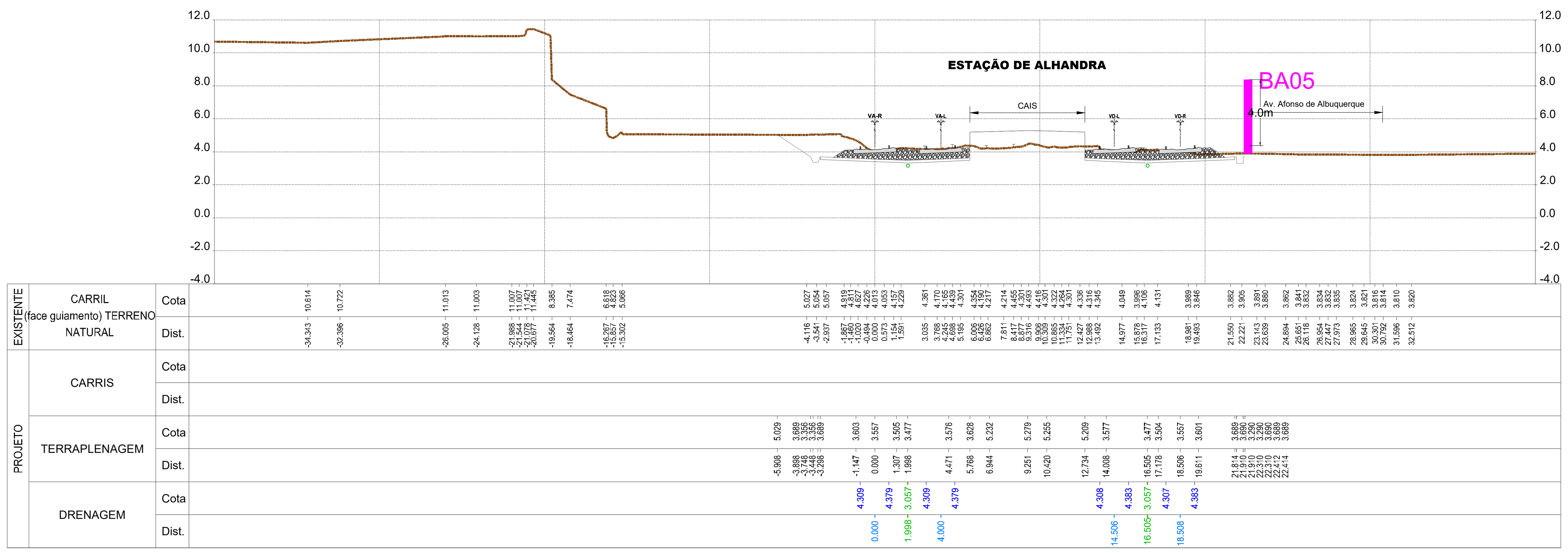
Pk 26+100.000
Km 26+089.881

P174



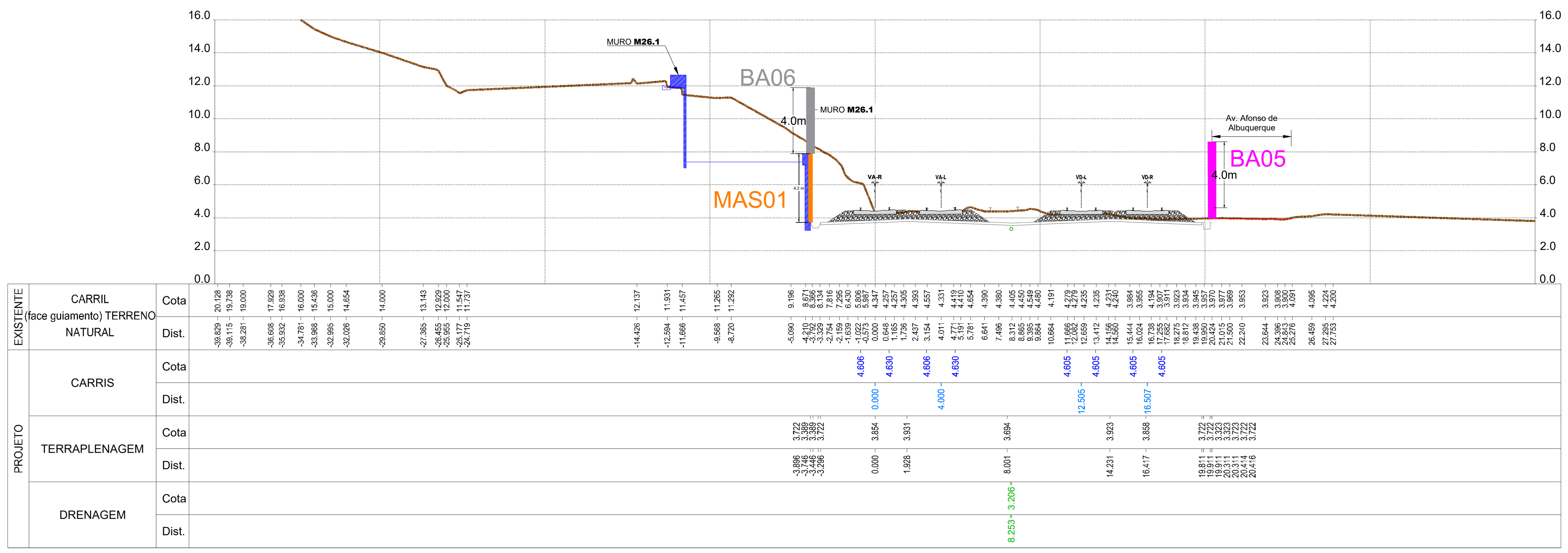
Pk 26+175.000
Km 26+164.810

P177



Pk 26+075.000
Km 26+061.730

P173



Pk 26+150.000
Km 26+139.825

P176

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

DESENHO 2

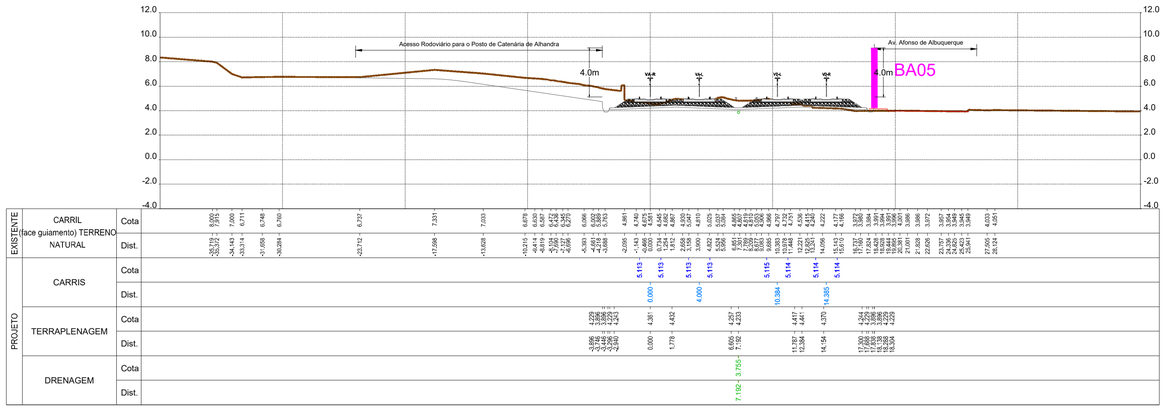
BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 05

Km 26+053 ao Km 26+733

FOLHA 5/45

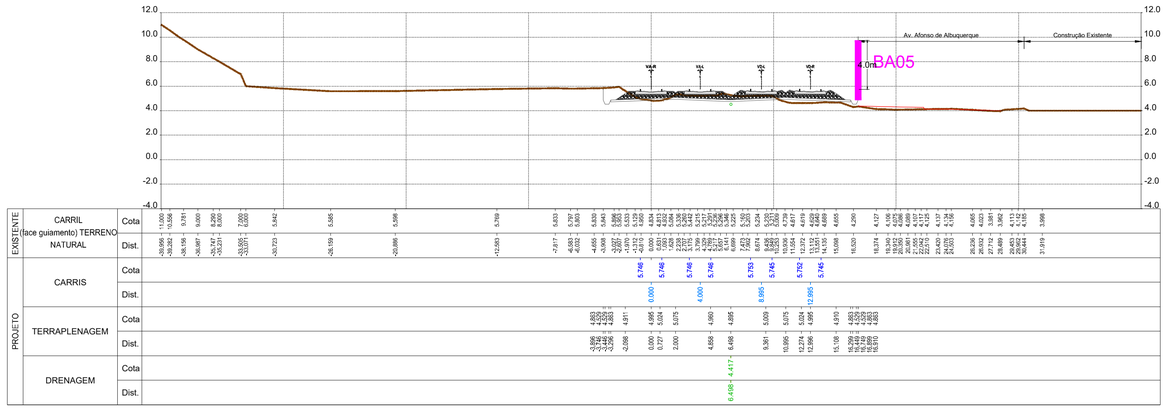
0 5 10m

Escala:
1:250



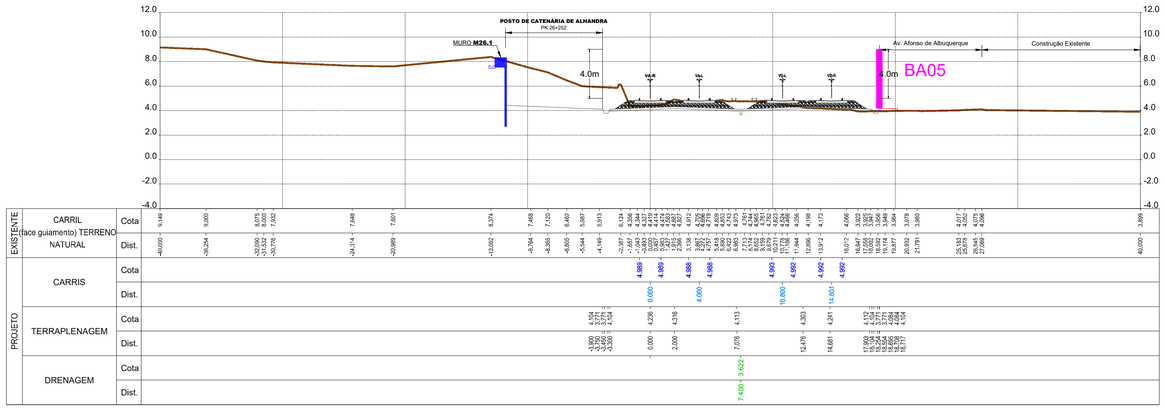
Pk 26+275.000
Km 26+264.707

P181



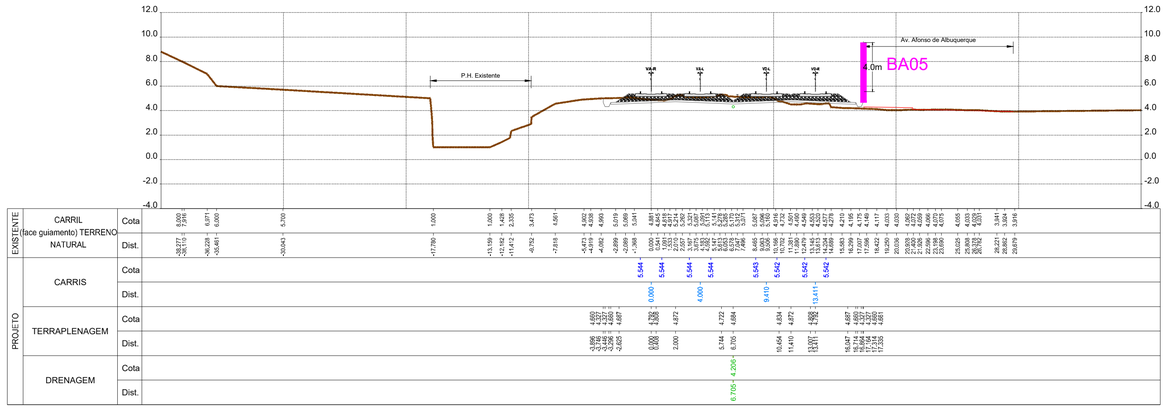
Pk 26+350.000
Km 26+348.182

P184



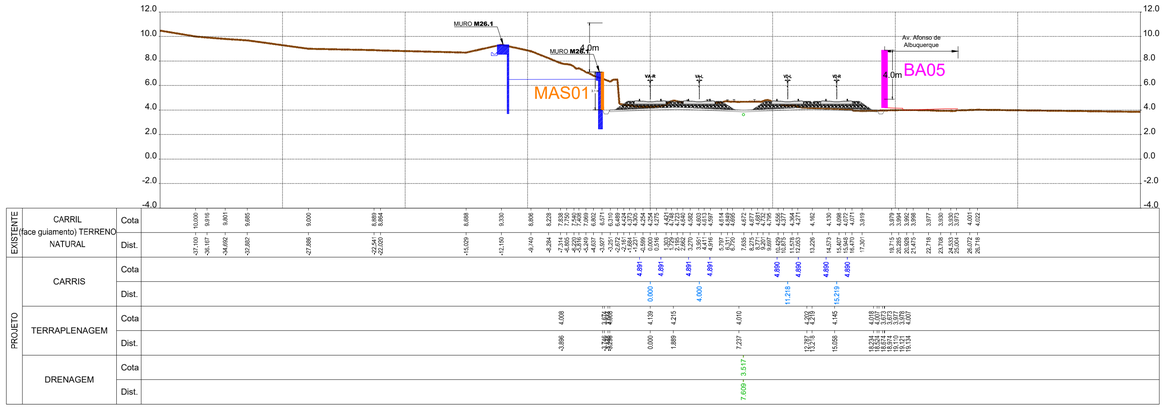
Pk 26+250.000
Km 26+239.704

P180



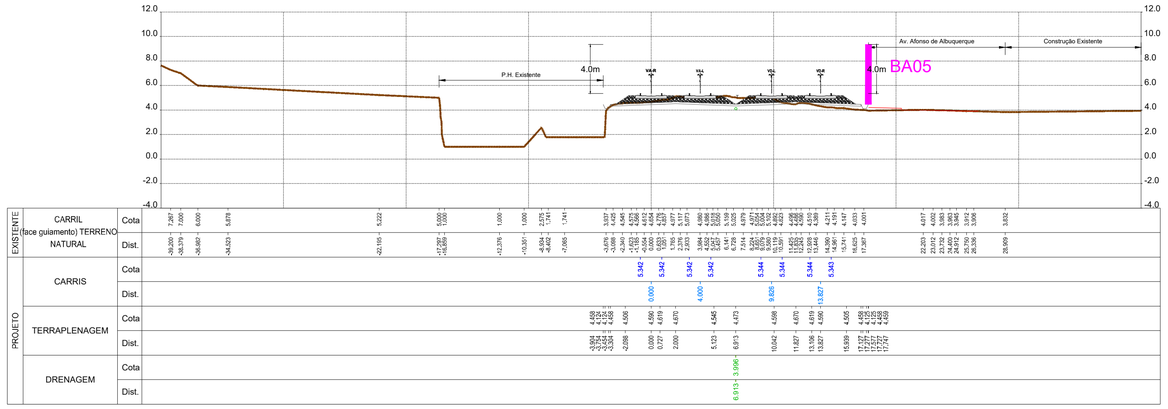
Pk 26+325.000
Km 26+323.184

P183



Pk 26+225.000
Km 26+214.740

P179



Pk 26+300.000
Km 26+298.182

P182

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

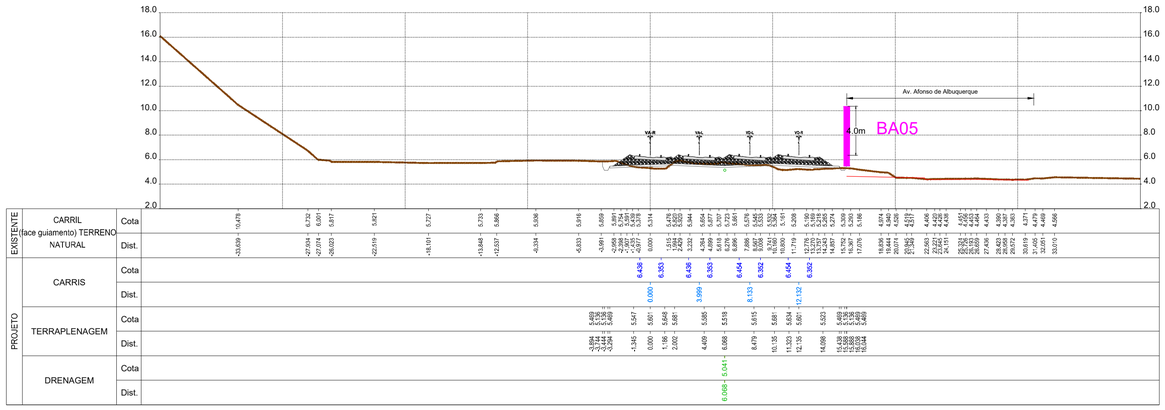
Projeto de Execução

DESENHO 2

BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 05
Km 26+053 ao Km 26+733

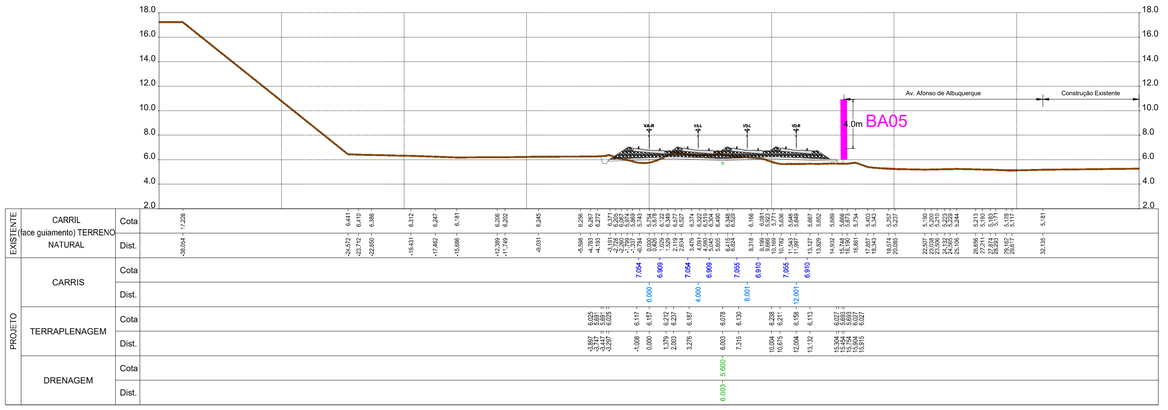
FOLHA 6/45

0 5 10m
Escala:
1:250



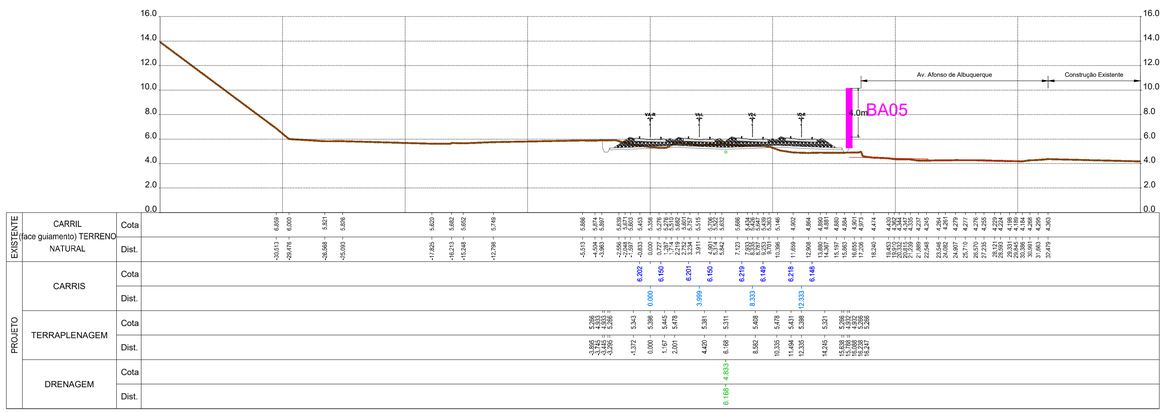
Pk 26+425.000
Km 26+422.958

P187



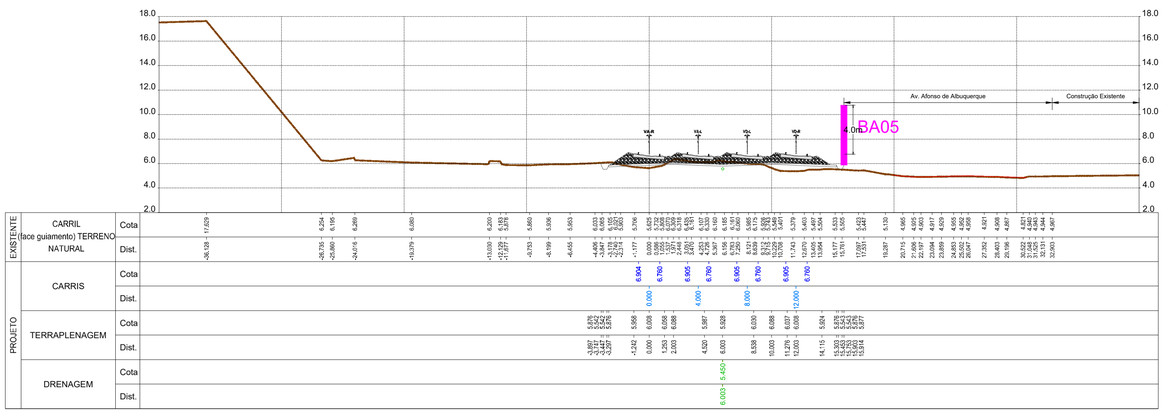
Pk 26+500.000
Km 26+491.547

P190



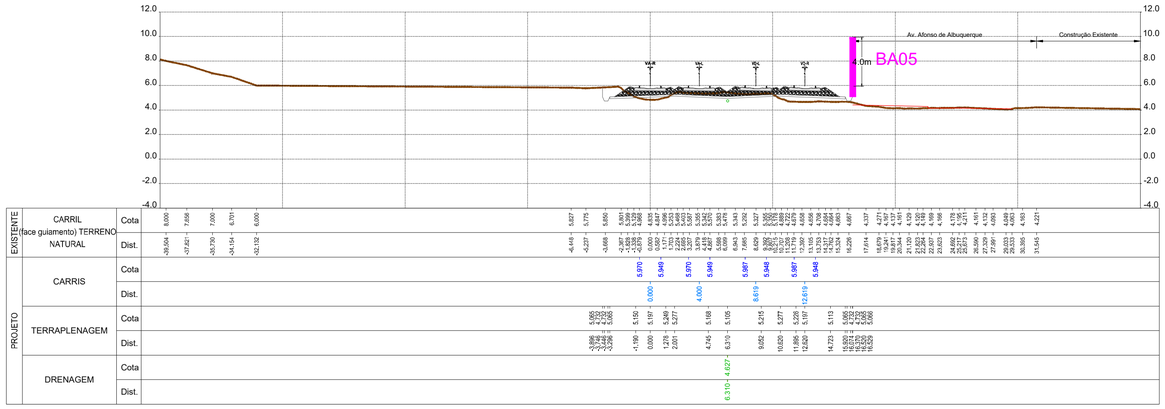
Pk 26+400.000
Km 26+397.915

P186



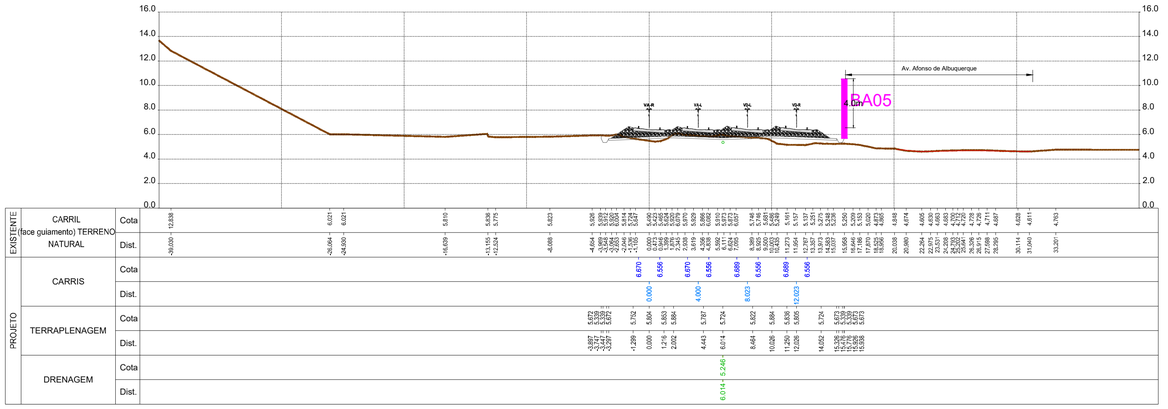
Pk 26+475.000
Km 26+473.116

P189



Pk 26+375.000
Pk 26+375.966

P185



Pk 26+450.000
Km 26+448.028

P188

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

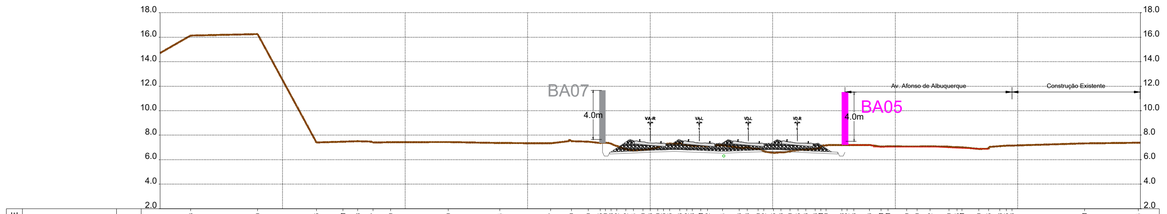
Projeto de Execução

DESENHO 2

BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 05
Km 26+053 ao Km 26+733

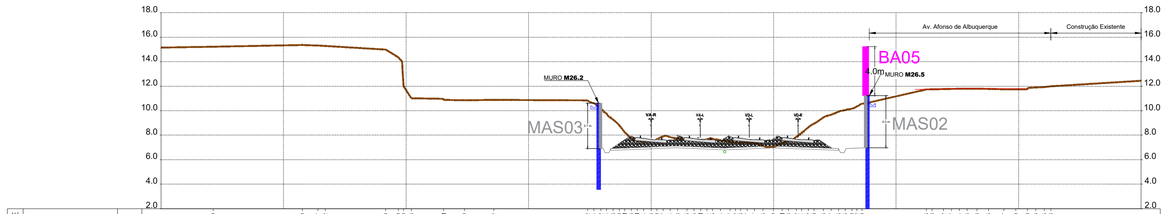
FOLHA 7/45

0 5 10m
Escala:
1:250



Pk 26+575.000
Km 26+566.862

P193

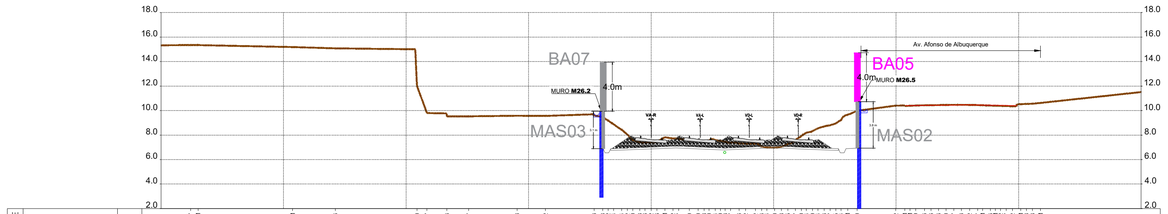


Pk 26+650.000
Km 26+654.208

P196

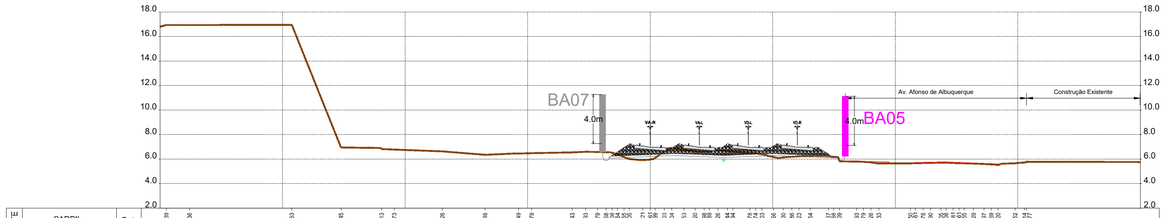
Pk 26+550.000
Km 26+541.767

P192



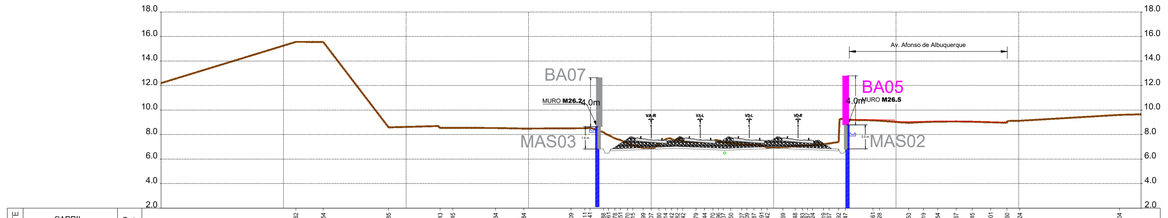
Pk 26+625.000
Km 26+629.117

P195



Pk 26+525.000
Km 26+516.657

P191



Pk 26+600.000
Km 26+604.032

P194

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

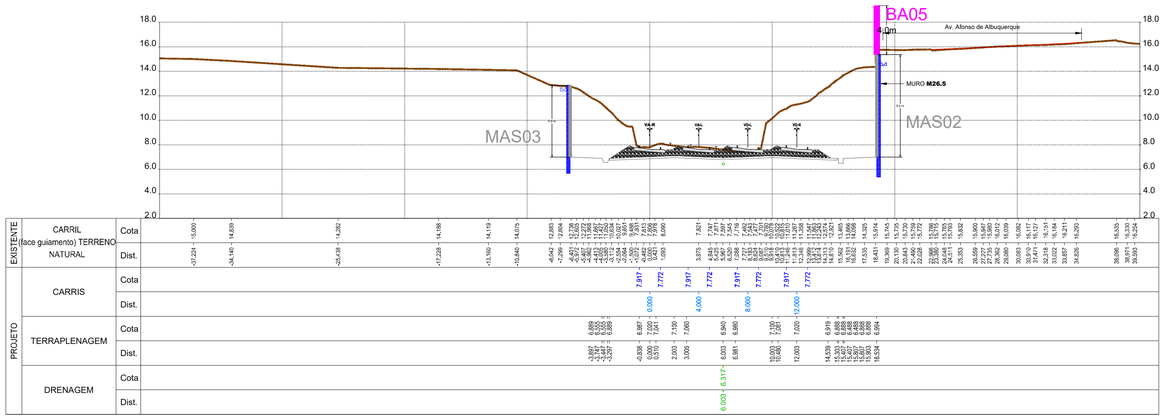
Projeto de Execução

DESENHO 2

BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 05
Km 26+053 ao Km 26+733

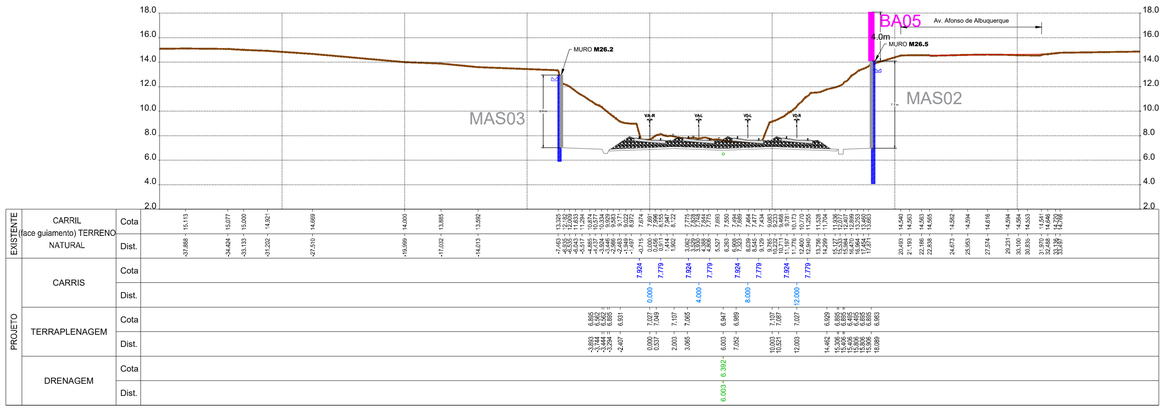
FOLHA 8/45

0 5 10m
Escala:
1:250



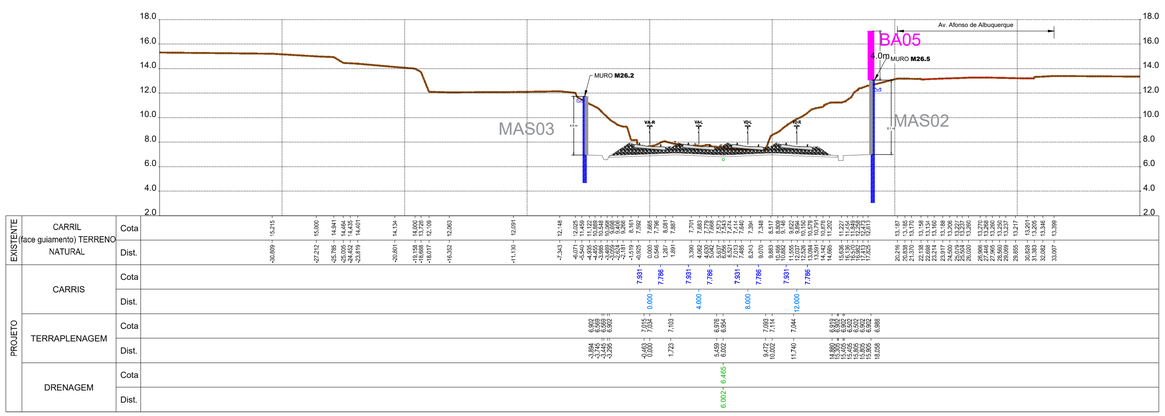
Pk 26+725.000
Km 26+728.729

P199



Pk 26+700.000
Km 26+703.664

P198



Pk 26+675.000
Km 26+679.296

P197

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

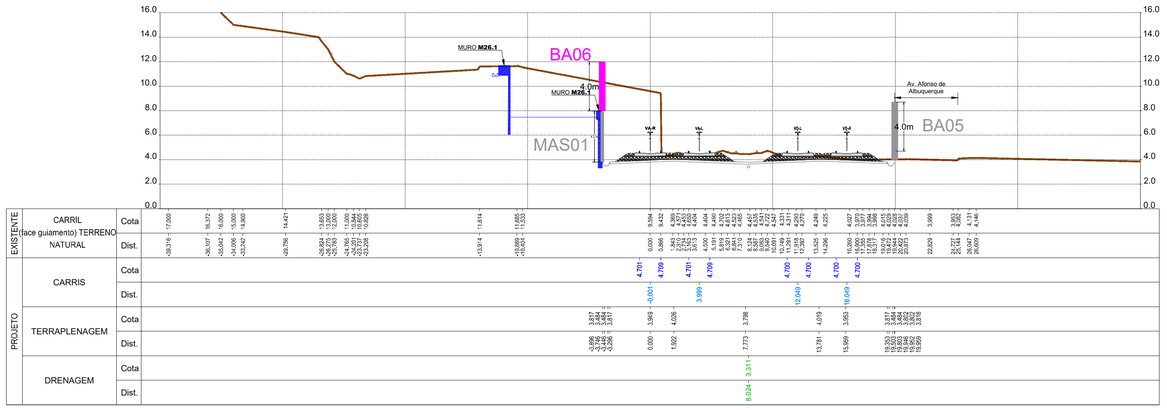
LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

DESENHO 2

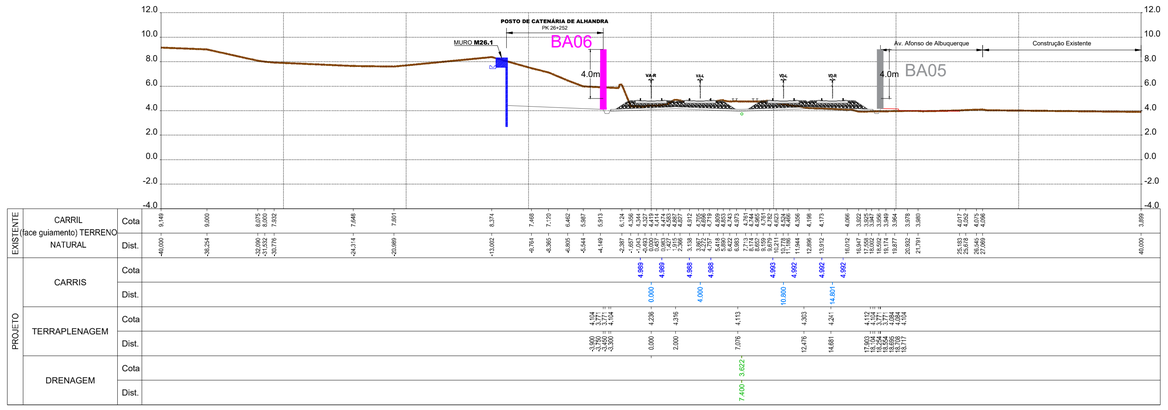
BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 06
Km 26+091 ao Km 26+305
FOLHA 9/45

0 5 10m
Escala:
1:250



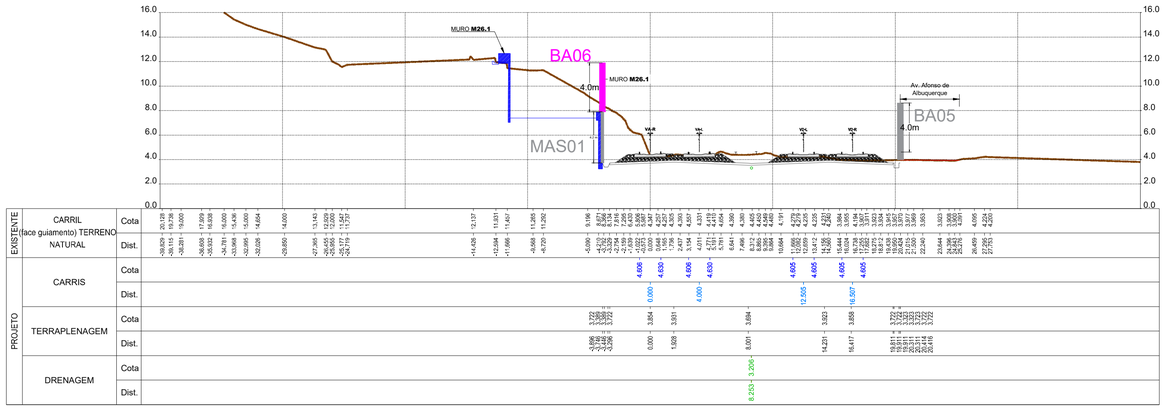
Pk 26+175.000
Km 26+164.810

P177



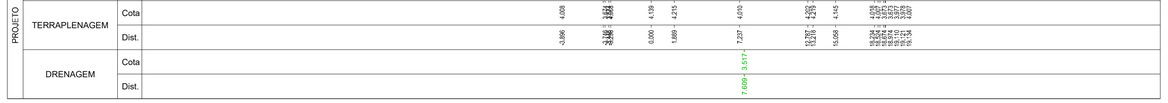
Pk 26+250.000
Km 26+239.704

P180



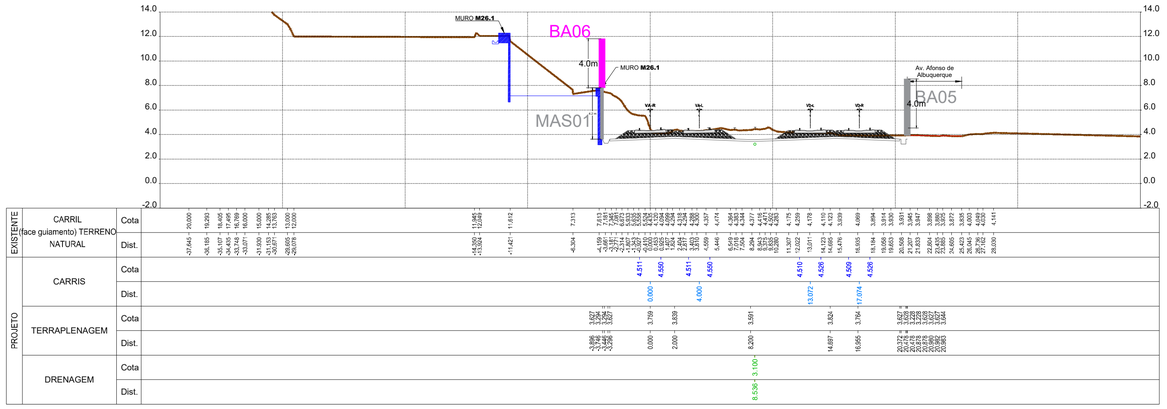
Pk 26+150.000
Km 26+139.825

P176



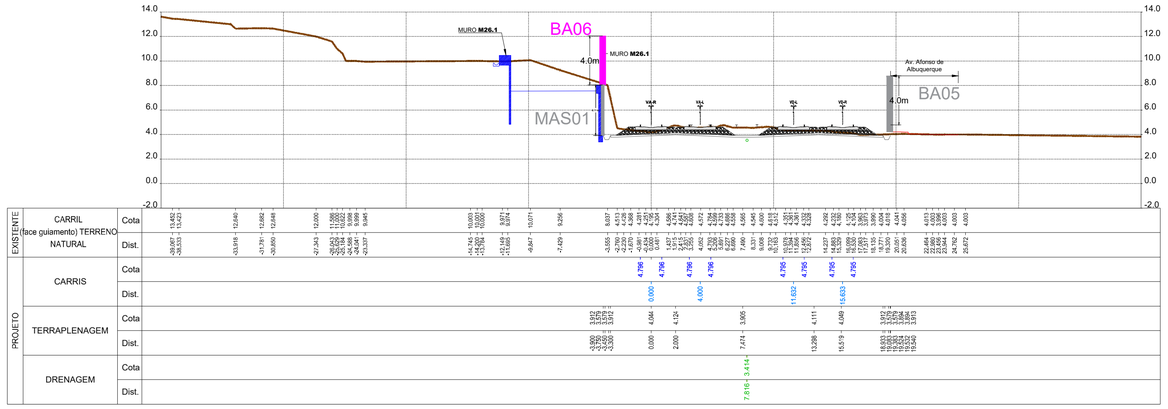
Pk 26+225.000
Km 26+214.740

P179



Pk 26+125.000
Km 26+114.851

P175



Pk 26+200.000
Km 26+189.700

P178

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

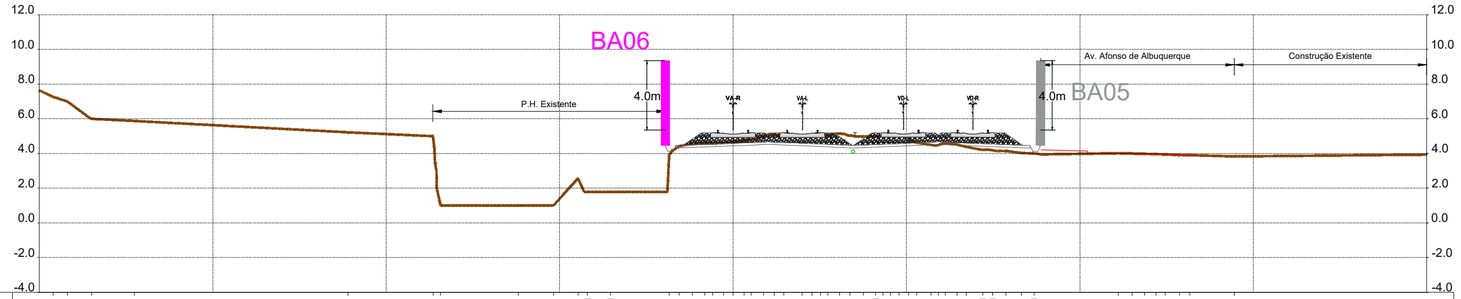
Projeto de Execução

DESENHO 2

BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 05
Km 26+053 ao Km 26+733

FOLHA 10/45

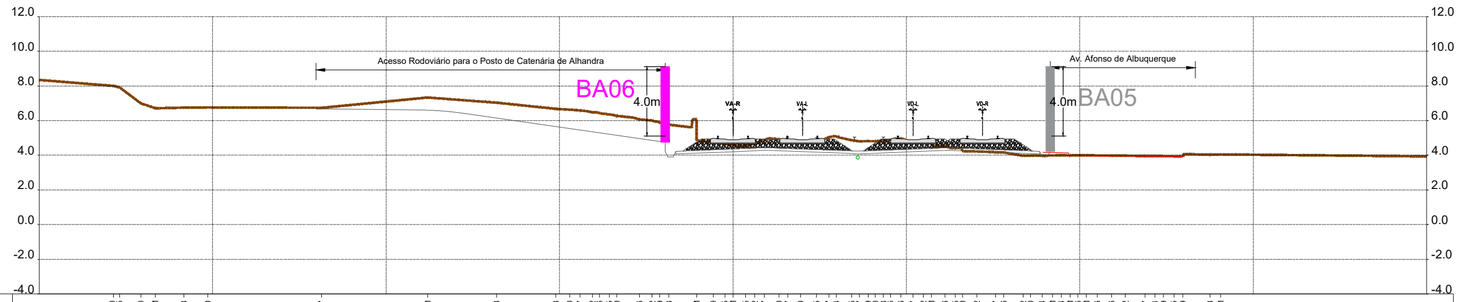
Escala:
1:250



EXISTENTE	CARRIL (face guiamento) TERRENO NATURAL	Cota	7.267 7.000 6.000 5.878 5.222 5.000 1.000 1.000 1.000 2.575 1.741 1.741 3.837 4.425 4.545 4.575 4.812 4.854 4.863 4.977 5.117 5.078 4.980 4.969 5.018 5.062 5.159 5.025 4.979 4.971 4.957 5.004 5.102 4.623 4.498 4.496 4.510 4.269 4.211 4.161 4.147 4.033 4.001 4.017 4.002 3.883 3.963 3.945 3.812 3.086 3.832
		Dist.	-39.200 -38.379 -36.982 -34.523 -22.195 -17.297 -16.859 -12.376 -10.351 -8.934 -8.442 -7.065 -3.676 -3.088 -2.340 -1.923 -1.765 0.000 0.031 1.765 2.376 2.853 3.984 4.452 5.047 6.441 6.728 7.514 8.251 8.451 8.979 9.390 10.131 10.591 11.425 12.045 12.215 12.628 13.446 14.380 14.581 15.741 16.625 17.367 22.203 23.012 23.732 24.400 24.912 25.750 26.068 28.909
PROJETO	CARRIS	Cota	5.342 5.342 5.342 5.342 5.342 5.344 5.344 5.344 5.343
		Dist.	0.000 4.000 9.826 13.827
	TERRAPLENAGEM	Cota	4.458 4.454 4.124 4.458 4.506 4.590 4.619 4.670 4.545 4.473 4.598 4.670 4.619 4.590 4.505 4.458 4.125 4.458 4.459
		Dist.	-3.804 -3.334 -3.154 -3.304 -2.098 0.000 0.727 2.000 5.123 6.913 10.342 11.827 13.106 13.827 15.939 17.127 17.277 17.727 17.747
	DRENAGEM	Cota	3.996
		Dist.	6.913

Pk 26+300.000
Km 26+298.182

P182



EXISTENTE	CARRIL (face guiamento) TERRENO NATURAL	Cota	8.000 7.915 7.000 6.711 6.748 6.760 6.737 7.331 7.033 6.678 6.630 6.597 6.472 6.438 6.345 6.270 6.066 6.002 5.928 5.783 4.861 4.740 4.675 4.581 4.545 4.492 4.867 4.030 5.047 4.810 4.822 5.025 5.054 4.865 4.857 4.819 4.813 4.668 4.666 4.737 4.732 4.751 4.536 4.415 4.240 4.222 4.177 4.166 3.972 3.960 3.984 3.991 3.941 3.996 4.001 3.986 3.972 3.957 3.954 3.945 3.948 3.949 4.033 4.051
		Dist.	-35.719 -35.372 -34.143 -33.314 -31.658 -30.284 -23.712 -17.598 -13.628 -10.215 -9.414 -8.819 -8.106 -7.727 -7.127 -6.896 -5.393 -4.951 -4.751 -3.688 -2.095 -1.143 -0.466 0.000 0.734 1.242 1.812 2.658 3.158 3.900 4.822 5.356 5.854 6.851 7.301 7.769 8.209 8.683 9.085 9.685 10.383 10.931 11.448 12.221 12.901 13.261 14.056 15.143 15.610 16.737 17.180 17.824 18.428 18.944 19.562 20.381 21.001 21.828 22.626 23.757 24.336 24.875 25.423 25.941 27.505 28.126
PROJETO	CARRIS	Cota	5.113 5.113 5.113 5.113 5.115 5.114 5.114 5.114 5.114
		Dist.	0.000 4.000 10.384 14.365
	TERRAPLENAGEM	Cota	4.229 4.396 3.896 4.229 4.243 4.361 4.432 4.257 4.233 4.417 4.441 4.370 4.244 4.229 3.896 4.229 4.229
		Dist.	-3.856 -3.436 -3.446 -3.296 -2.949 0.000 1.778 6.605 7.192 11.787 12.384 14.154 17.300 17.688 17.838 18.138 18.538 18.604
	DRENAGEM	Cota	3.755
		Dist.	7.192

Pk 26+275.000
Km 26+264.707

P181

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

DESENHO 2

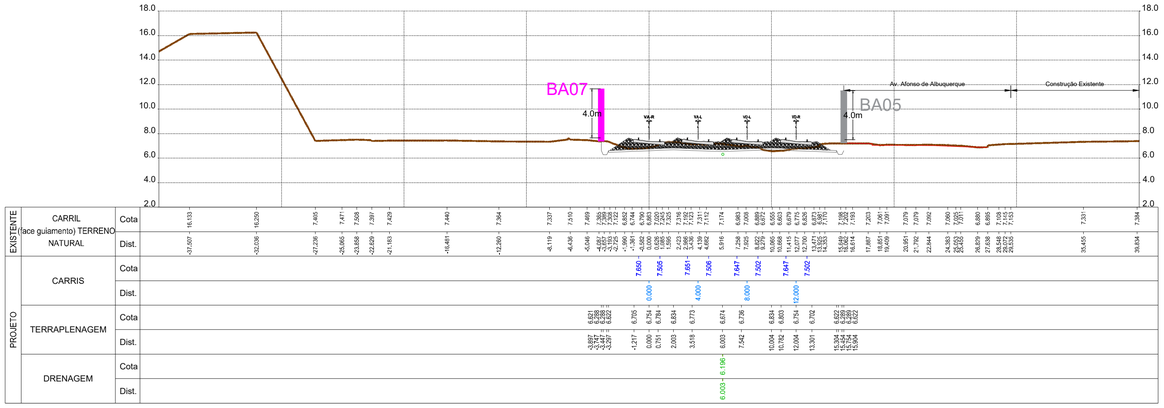
BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 06

Km 26+053 ao Km 26+733

FOLHA 11/45

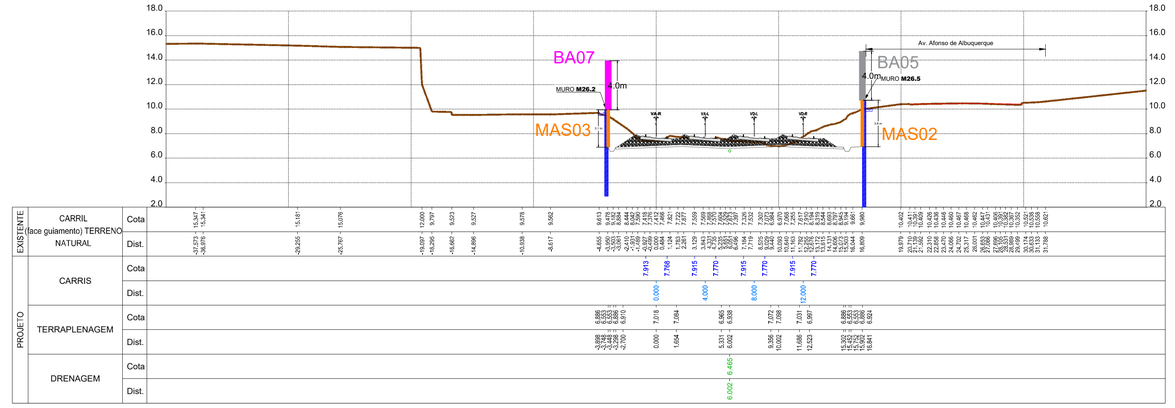
0 5 10m

Escala:
1:250



EXISTENTE	CARRIL (face guiamento) TERRENO NATURAL	Cota	16,153 … 7,384
		Dist.	-37,507 … 36,804
PROJETO	CARRIS	Cota	7,605 … 7,602
		Dist.	0,000 … 28,573
	TERRAPLENAGEM	Cota	6,621 … 6,822
		Dist.	-3,697 … 15,604
	DRENAGEM	Cota	6,196 … 6,111
		Dist.	6,003 … 6,123

Pk 26+575.000
Km 26+566.862
P193



EXISTENTE	CARRIL (face guiamento) TERRENO NATURAL	Cota	16,547 … 9,960
		Dist.	-37,572 … 31,788
PROJETO	CARRIS	Cota	7,915 … 7,915
		Dist.	0,000 … 12,000
	TERRAPLENAGEM	Cota	6,886 … 6,824
		Dist.	-3,898 … 16,841
	DRENAGEM	Cota	
		Dist.	6,022 … 6,485

Pk 26+625.000
Km 26+629.117
P195

EXISTENTE	CARRIL (face guiamento) TERRENO NATURAL	Cota	16,659 … 6,123
		Dist.	-34,660 … 38,876
PROJETO	CARRIS	Cota	7,461 … 7,462
		Dist.	0,000 … 28,891
	TERRAPLENAGEM	Cota	6,479 … 6,626
		Dist.	-3,697 … 26,032
	DRENAGEM	Cota	6,107 … 6,111
		Dist.	6,003 … 6,123

Pk 26+550.000
Km 26+541.767
P192

EXISTENTE	CARRIL (face guiamento) TERRENO NATURAL	Cota	16,342 … 9,904
		Dist.	-28,994 … 36,232
PROJETO	CARRIS	Cota	7,442 … 7,444
		Dist.	0,000 … 12,000
	TERRAPLENAGEM	Cota	6,847 … 6,824
		Dist.	-3,884 … 16,809
	DRENAGEM	Cota	6,107 … 6,124
		Dist.	6,002 … 6,904

Pk 26+600.000
Km 26+604.032
P194

EXISTENTE	CARRIL (face guiamento) TERRENO NATURAL	Cota	16,659 … 6,123
		Dist.	-37,593 … 38,876
PROJETO	CARRIS	Cota	7,259 … 7,114
		Dist.	0,000 … 28,891
	TERRAPLENAGEM	Cota	6,272 … 6,626
		Dist.	-3,697 … 26,032
	DRENAGEM	Cota	6,107 … 6,111
		Dist.	6,003 … 5,603

Pk 26+525.000
Km 26+516.657
P191

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

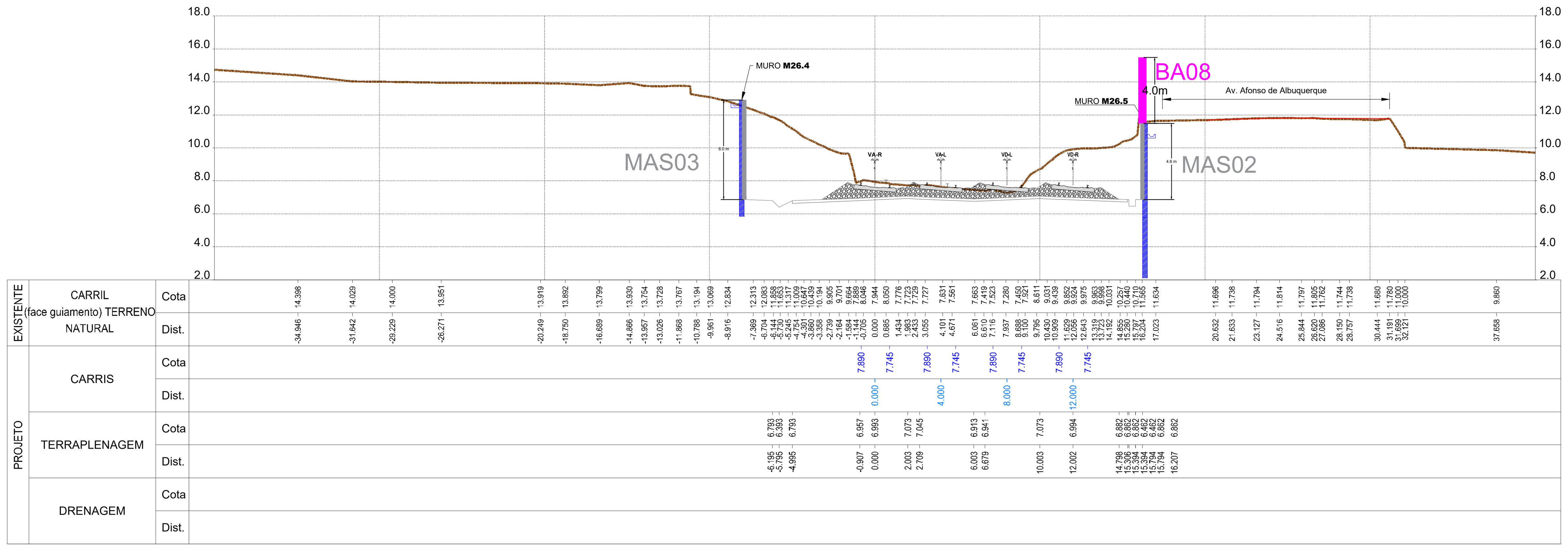
Projeto de Execução

DESENHO 2

BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 07
Km 26+506 ao Km 26+623

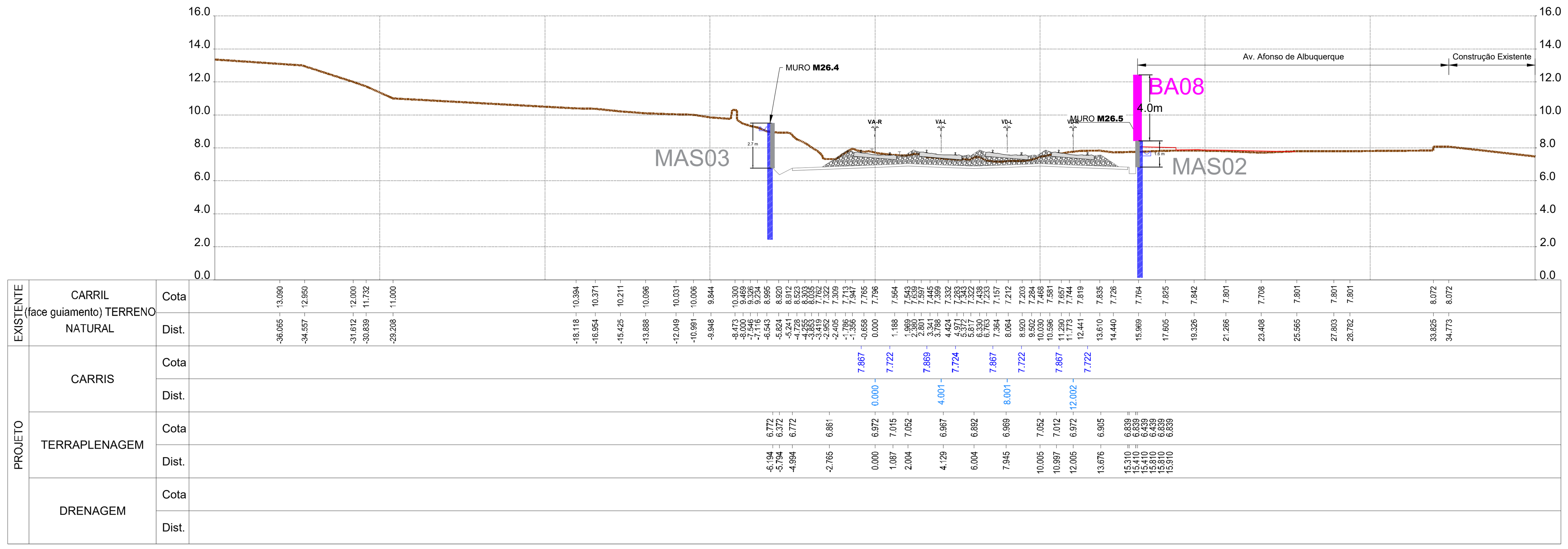
FOLHA 12/45

0 5 10m
Escala:
1:250



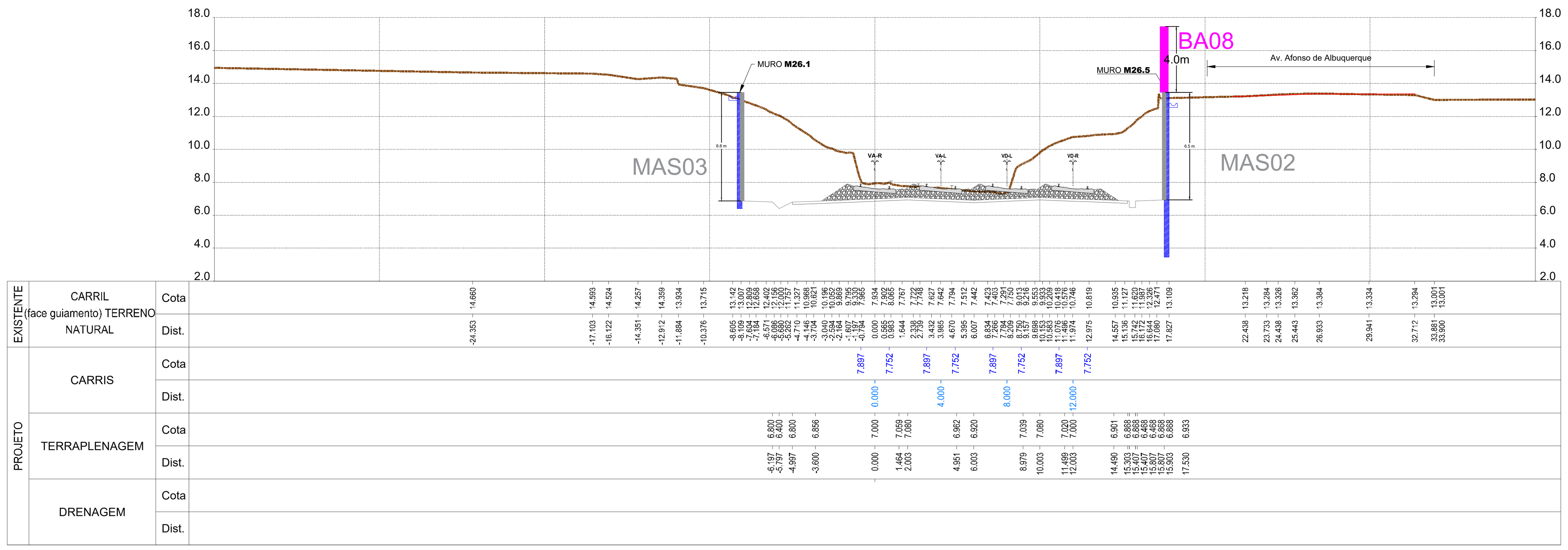
Pk 26+825.000
Km 26+828.687

P203



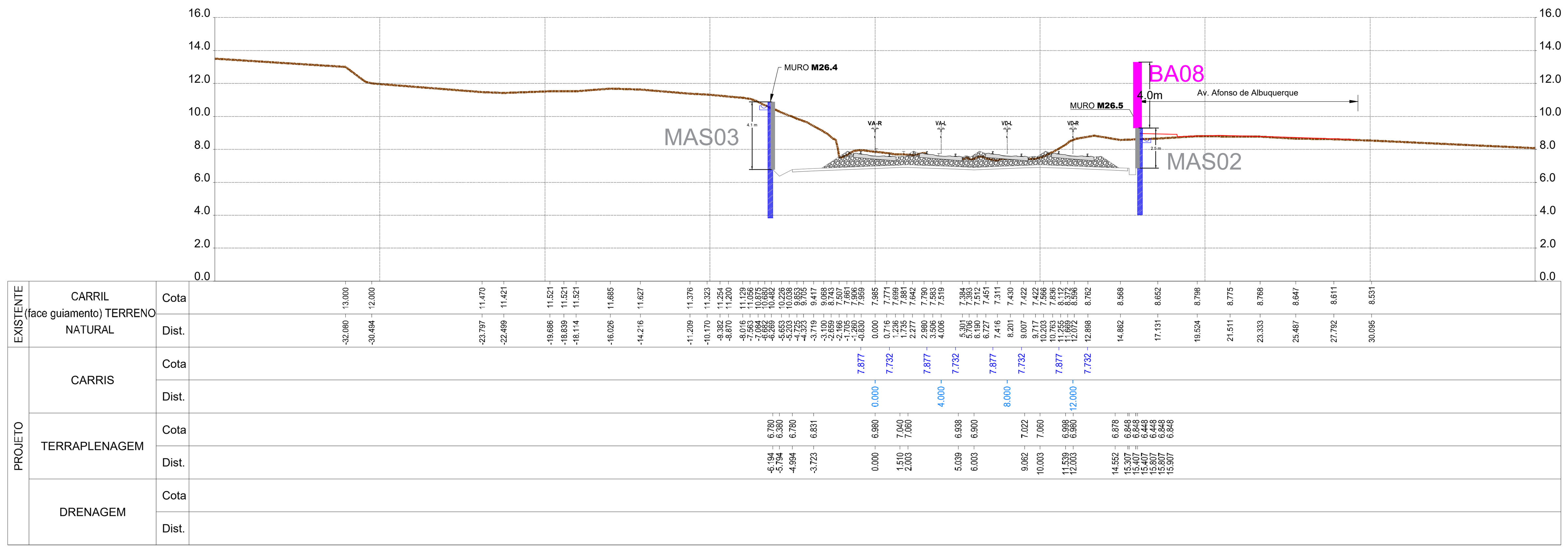
Pk 26+900.000
Km 26+902.275

P206



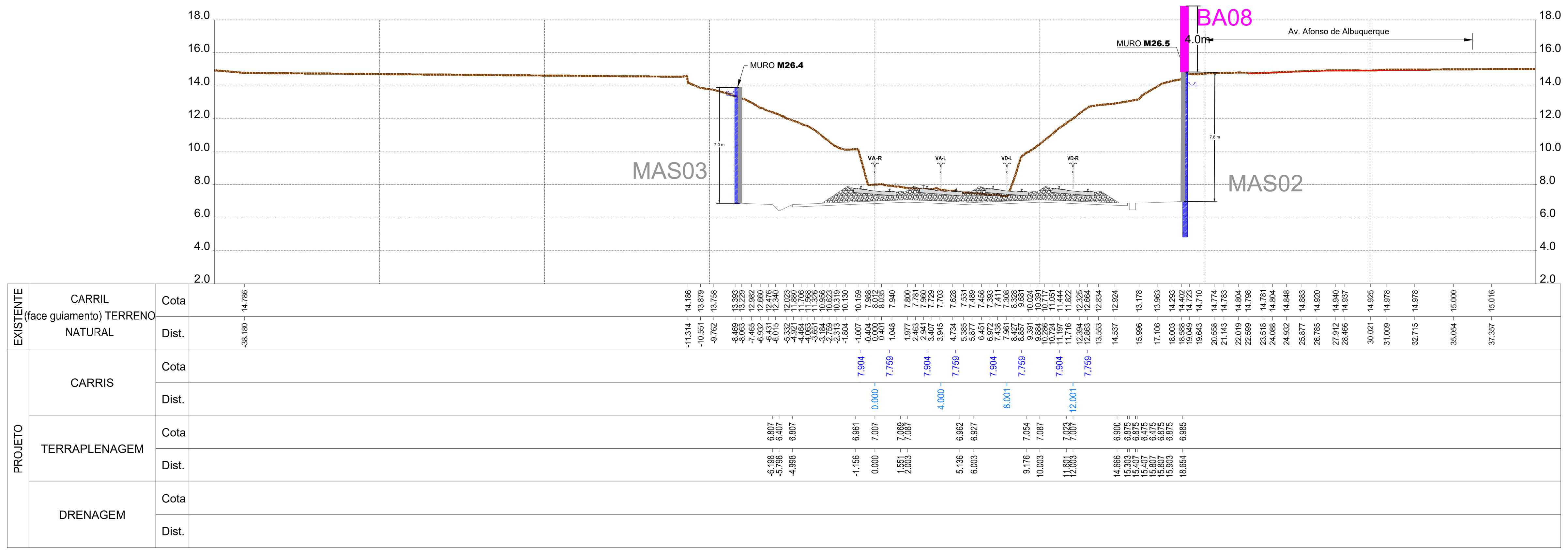
Pk 26+800.000
Km 26+803.639

P202



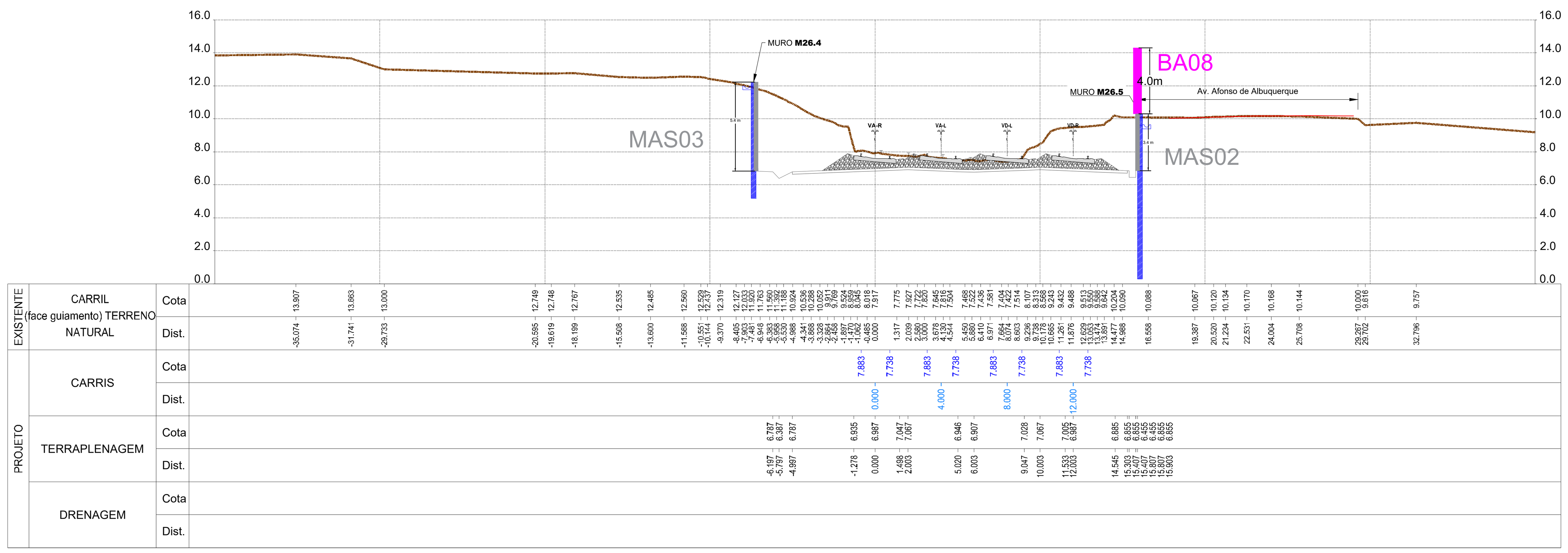
Pk 26+875.000
Km 26+878.756

P205



Pk 26+775.000
Km 26+778.851

P201



Pk 26+850.000
Km 26+853.725

P204

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

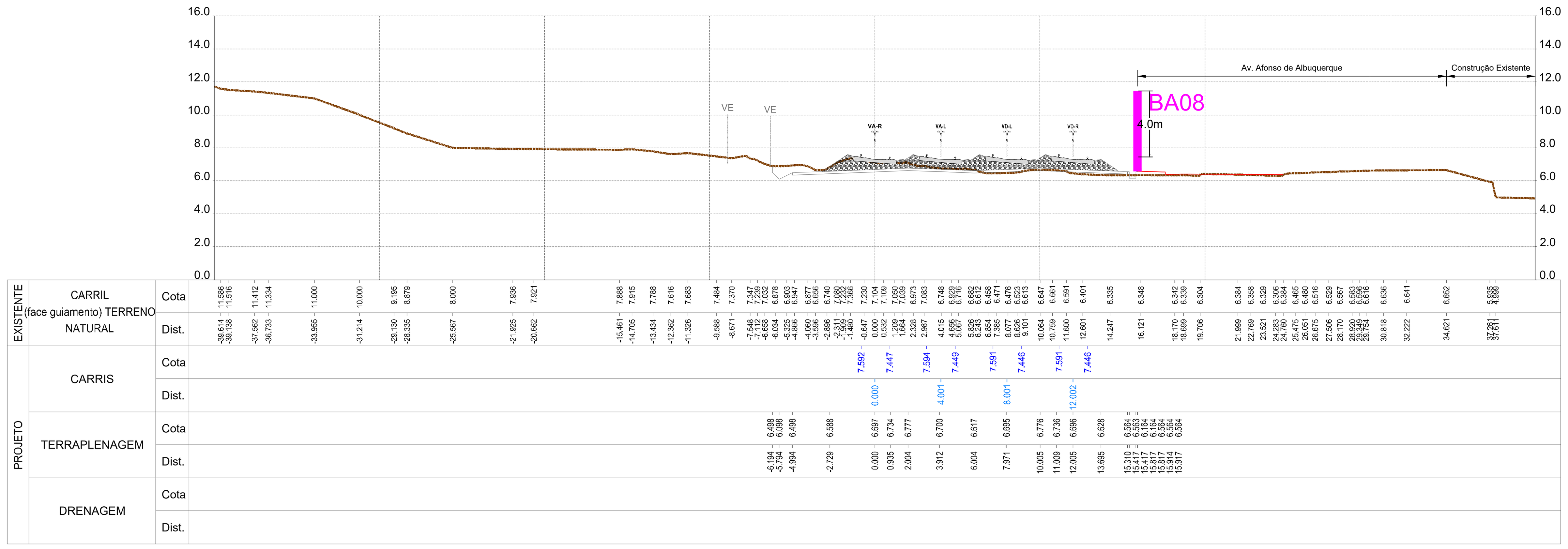
DESENHO 2

BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 08

Km 26+755 ao Km 27+106

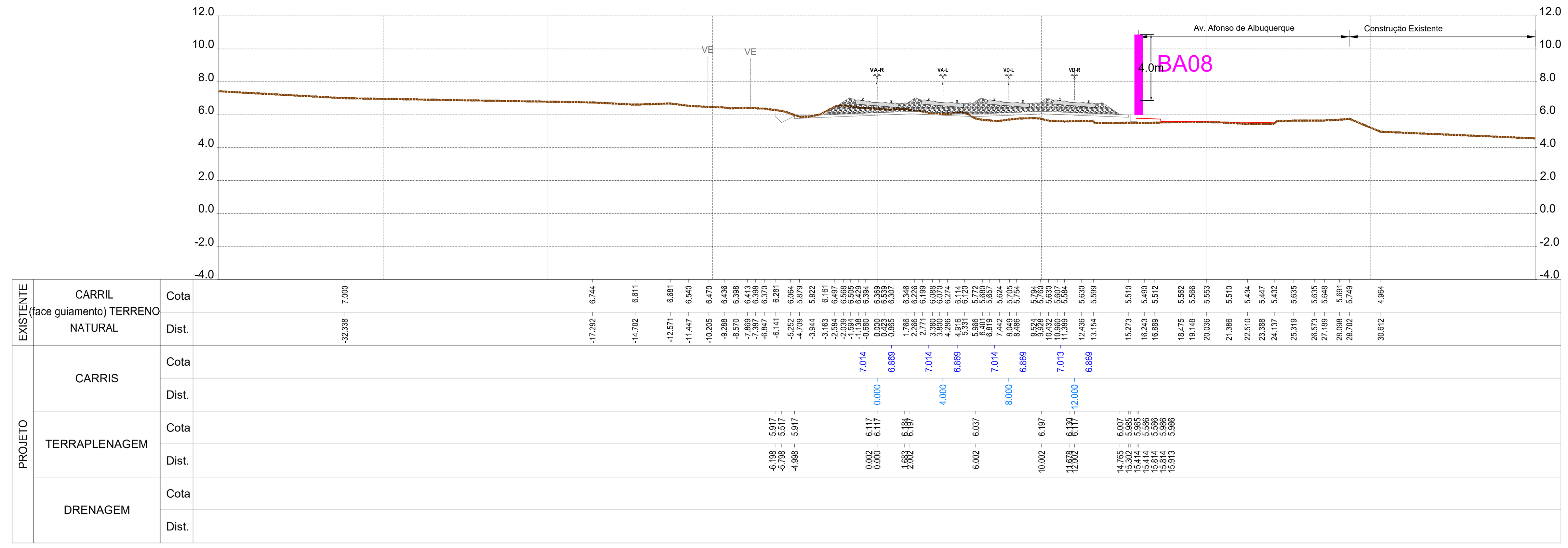
FOLHA 13/45

Escala: 1:250



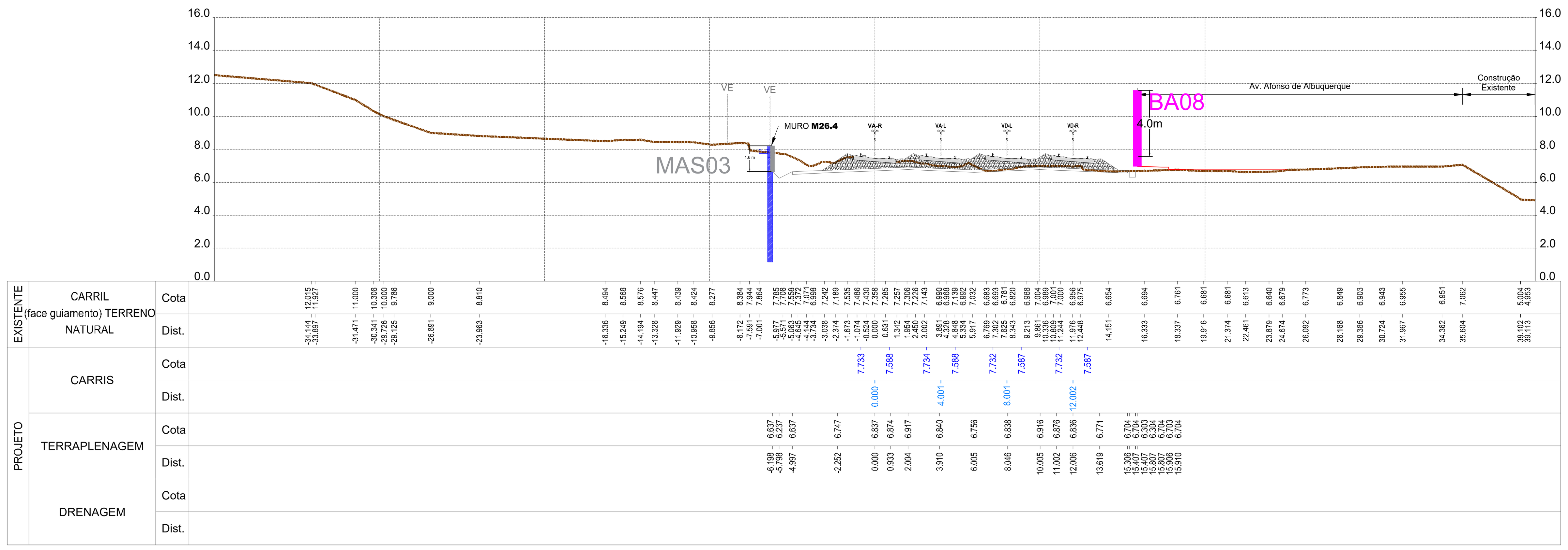
Pk 26+975.000
Km 26+977.309

P209



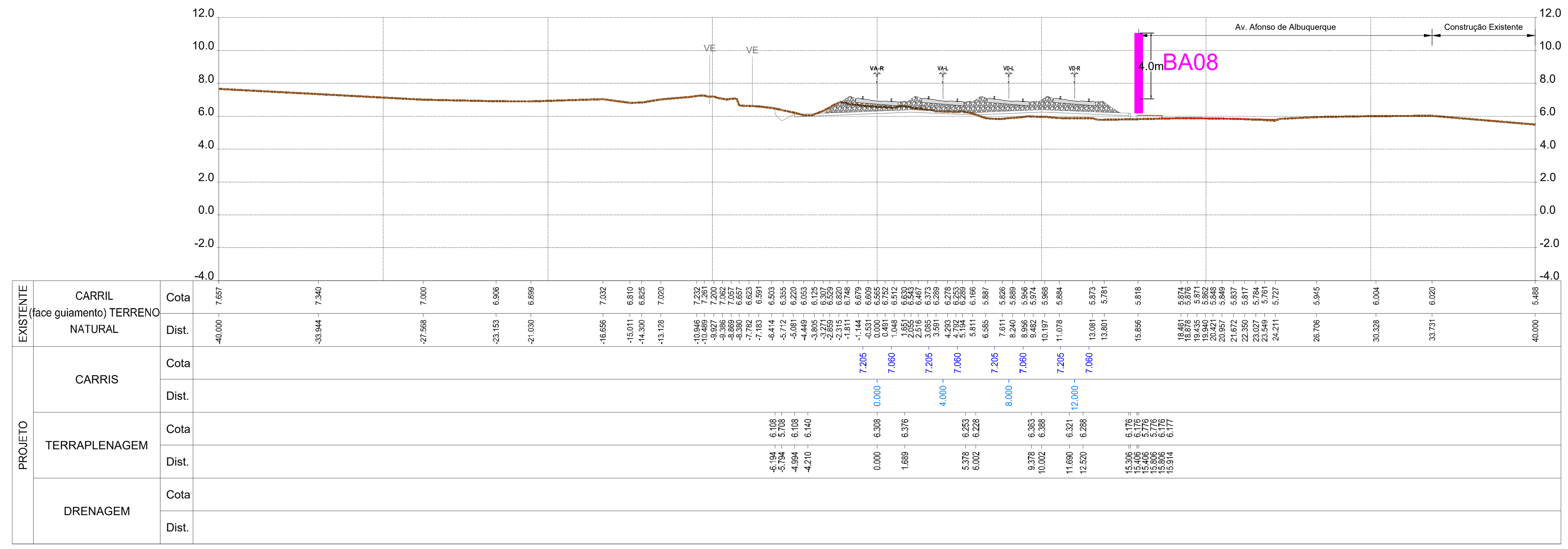
Pk 27+050.000
Km 27+054.205

P212



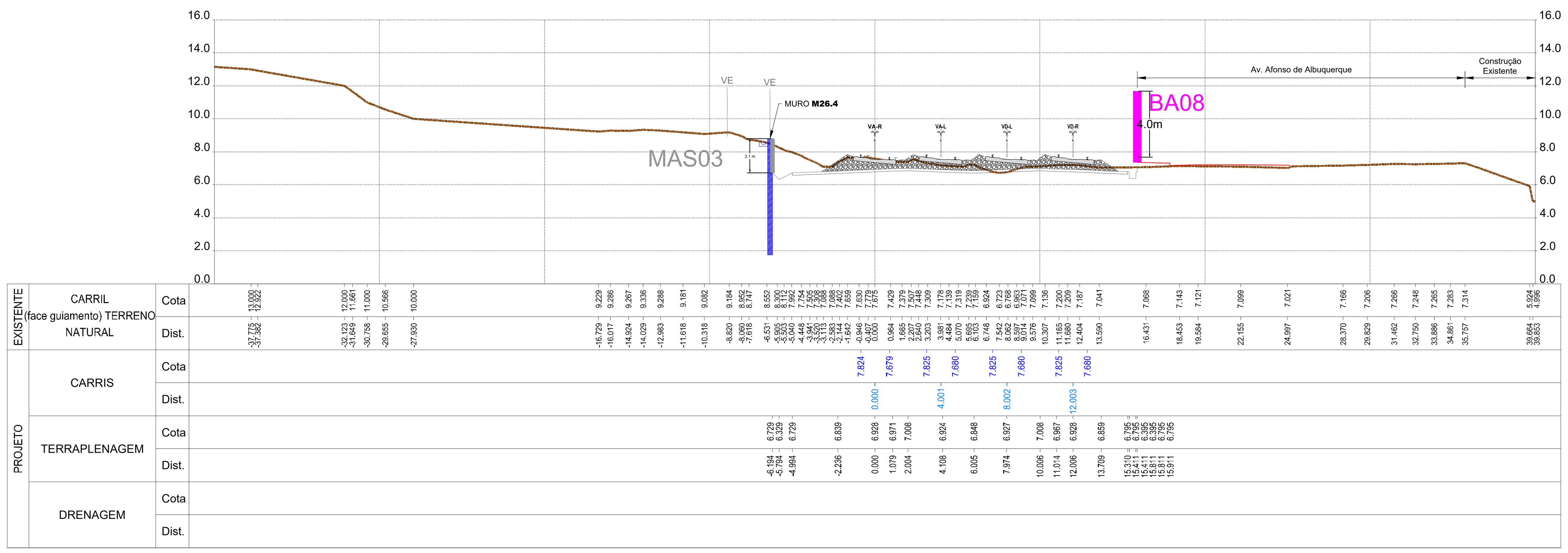
Pk 26+950.000
Km 26+952.304

P208



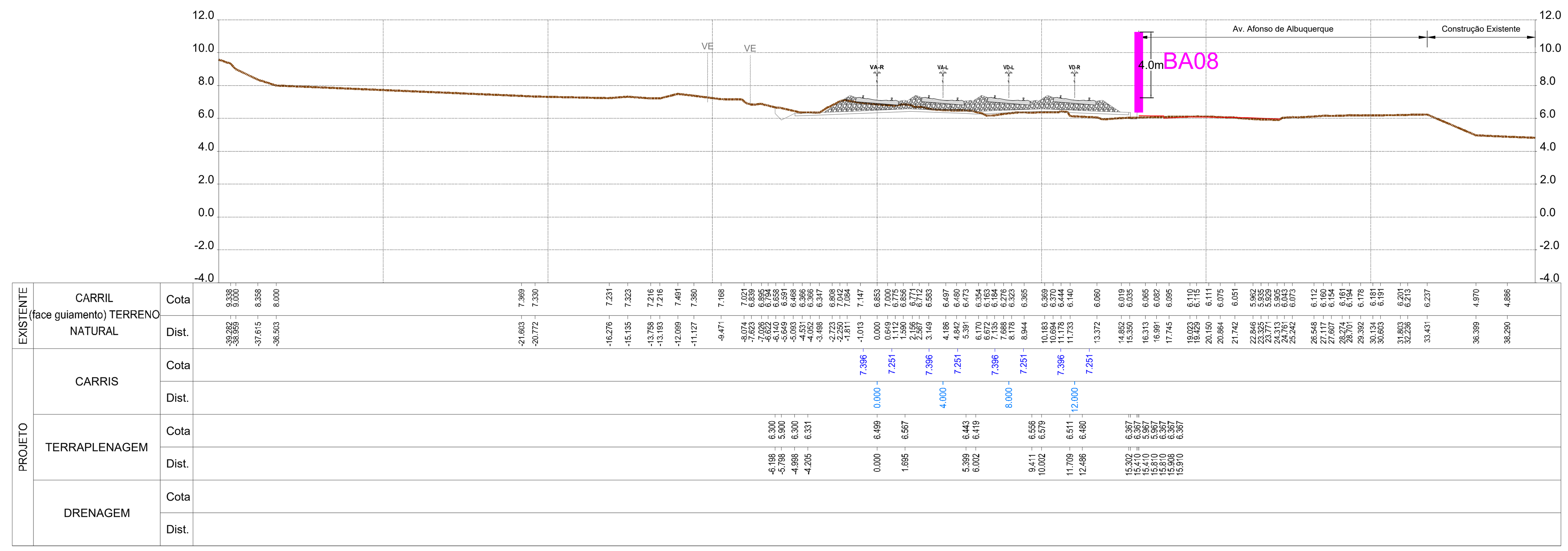
Pk 27+025.000
Km 27+029.216

P211



Pk 26+925.000
Km 26+927.292

P207



Pk 27+000.000
Km 27+004.225

P210

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

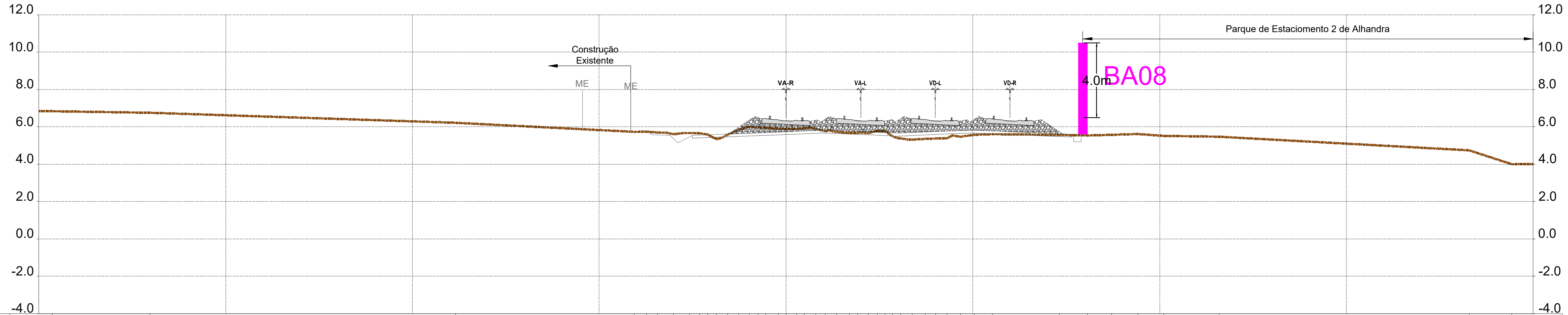
DESENHO 2

BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 08

Km 26+755 ao Km 27+106

FOLHA 14/45

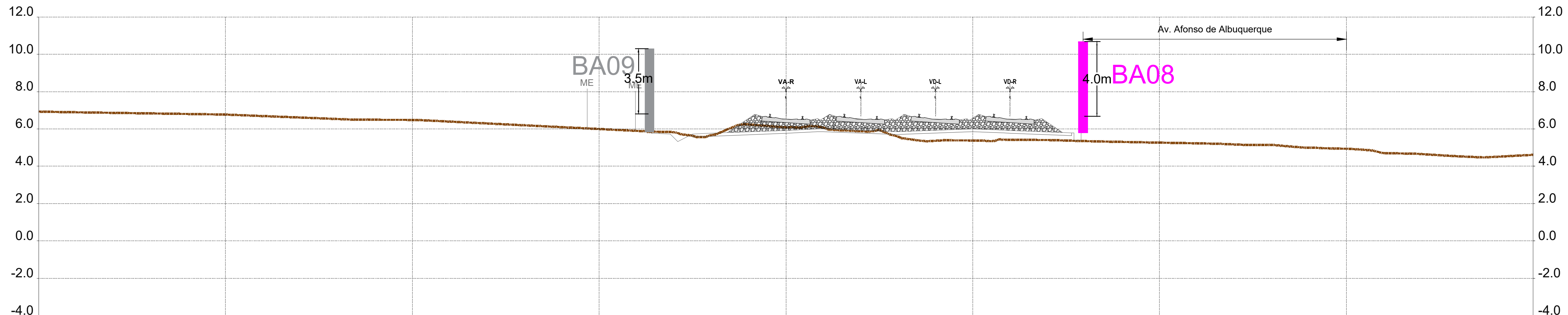
Escala: 1:250



EXISTENTE	CARRIL (face guiamento) TERRENO NATURAL	Cota	6.839 6.757 6.220 5.731 5.747 5.696 5.611 5.671 5.664 5.583 5.348 5.587 5.850 5.997 5.967 5.946 5.913 5.893 5.889 5.926 5.893 5.769 5.741 5.674 5.674 5.666 5.794 5.778 5.502 5.379 5.322 5.358 5.378 5.394 5.475 5.577 5.609 5.574 5.539 5.576 5.617 5.519 5.473 4.744 4.001
		Dist.	-39.285 -34.054 -17.699 -8.120 -7.459 -6.868 -6.032 -5.150 -4.622 -4.176 -3.720 -3.120 -2.525 -1.957 -1.493 -1.089 -0.428 0.000 0.572 0.989 1.583 2.110 2.706 3.397 3.828 4.417 4.890 5.298 5.698 6.143 6.765 7.462 8.014 8.623 9.342 10.072 11.052 14.629 16.140 17.416 18.840 20.211 23.191 36.579 38.859
PROJETO	CARRIS	Cota	6.576 6.492 6.576 6.492 6.576 6.493 6.576 6.493
		Dist.	0.000 3.997 7.994 11.991
	TERRAPLENAGEM	Cota	5.746 5.580 5.540 5.140 5.540 5.603 5.740 5.795 5.820 5.712 5.661 5.769 5.821 5.767 5.741 5.653 5.609 5.609 5.209 5.209 5.609 5.609
		Dist.	-7.447 -7.198 -6.198 -5.798 -4.998 -3.438 0.000 1.368 2.000 4.718 5.997 8.697 9.994 11.337 11.992 14.200 15.292 15.392 15.392 15.792 15.792 15.892
	DRENAGEM	Cota	
		Dist.	

Pk 27+100.000
Km 27+103.424

P214



EXISTENTE	CARRIL (face guiamento) TERRENO NATURAL	Cota	6.930 6.903 6.772 6.496 6.482 5.900 5.872 5.855 5.848 5.803 5.675 5.569 5.569 5.695 6.005 6.201 6.252 6.215 6.167 6.125 6.083 6.094 6.152 6.145 5.974 5.935 5.916 5.884 5.867 5.943 5.700 5.509 5.409 5.338 5.391 5.385 5.386 5.375 5.352 5.427 5.403 5.356 5.320 5.280 5.226 5.200 5.146 5.136 5.041 4.996 4.990 4.960 4.949 4.939 4.911 4.847 4.707 4.695 4.684 4.669 4.588 4.535 4.474
		Dist.	-40.000 -38.750 -30.065 -23.102 -19.775 -8.065 -7.477 -7.047 -6.511 -5.870 -5.284 -4.795 -4.296 -3.793 -3.077 -2.626 -2.146 -1.722 -1.060 -0.568 0.000 0.417 1.208 1.651 2.262 2.803 3.313 3.816 4.500 4.979 5.581 6.186 6.917 7.537 8.442 9.177 9.701 10.580 11.140 11.604 14.203 15.655 17.261 19.295 22.230 23.309 24.577 26.155 27.209 27.806 28.368 28.816 29.348 30.125 30.556 31.394 31.959 32.554 33.096 33.782 35.054 35.977 37.373
PROJETO	CARRIS	Cota	6.792 6.678 6.791 6.678 6.791 6.678 6.791 6.678
		Dist.	0.000 3.999 7.998 11.997
	TERRAPLENAGEM	Cota	5.835 5.766 5.726 5.326 5.726 5.758 5.926 5.993 5.872 5.846 5.980 6.006 5.939 5.815 5.794 5.794 5.394 5.394 5.794 5.794
		Dist.	-7.299 -7.195 -6.195 -5.795 -4.995 -4.189 0.000 1.679 5.358 6.000 9.357 9.999 11.677 14.769 15.302 15.413 15.413 15.813 15.813 15.913
	DRENAGEM	Cota	
		Dist.	

Pk 27+075.000
Km 27+079.194

P213

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

DESENHO 2

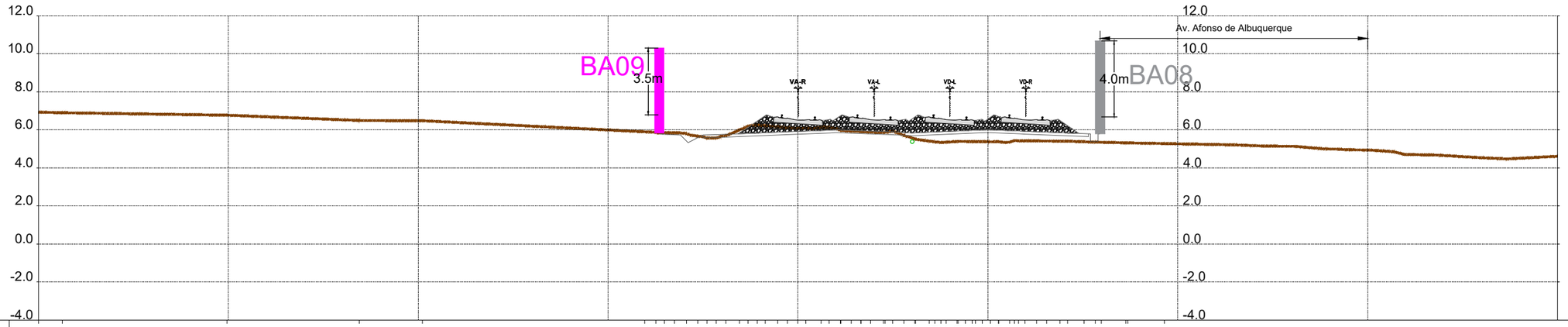
BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 08

Km 26+755 ao Km 27+106

FOLHA 15/45

0 5 10m

Escala:
1:250



EXISTENTE	CARRIL (face guiamento) TERRENO NATURAL	Cota	6.930 6.903 6.772 6.496 6.482 5.900 5.872 5.855 5.848 5.803 5.675 5.569 5.568 5.695 6.005 6.207 6.252 6.215 6.167 6.125 6.083 6.094 6.152 6.145 5.935 5.884 5.700 5.581 5.280
		Dist.	-40.000 -38.750 -30.065 -23.102 -19.775 -8.065 -7.477 -7.047 -6.511 -5.870 -5.284 -4.795 -4.296 -3.769 -3.077 -2.626 -2.146 -1.722 -1.060 -0.568 0.000 0.417 1.208 1.651 2.803 3.816 4.979 5.581 19.295
PROJETO	CARRIS	Cota	6.792 6.678 6.791 6.678 6.791 6.678 6.791 6.678
		Dist.	0.000 3.999 7.998 11.997
	TERRAPLENAGEM	Cota	5.835 5.766 5.726 5.326 5.726 5.758 5.926 5.993 5.872 5.846 5.980 6.006 5.938 5.815 5.794 5.394 5.394 5.794 5.794
		Dist.	-7.299 -7.195 -6.195 -5.795 -4.995 -4.189 0.000 1.679 5.358 6.000 9.357 9.999 11.677 14.769 15.302 15.413 15.813 15.913
	DRENAGEM	Cota	5.265
		Dist.	6.000

Pk 27+075.000
Km 27+079.194

P213

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

DESENHO 2

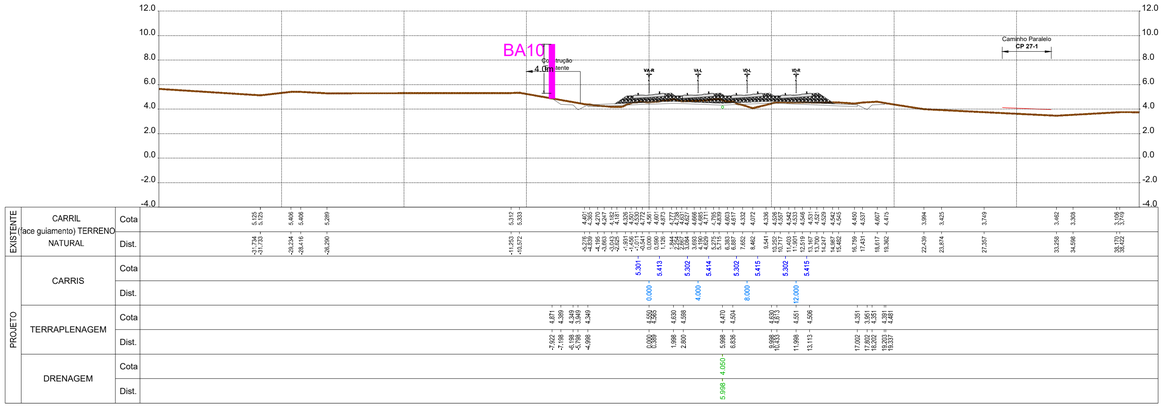
BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 09

Km 27+059 ao Km 27+100

FOLHA 16/45

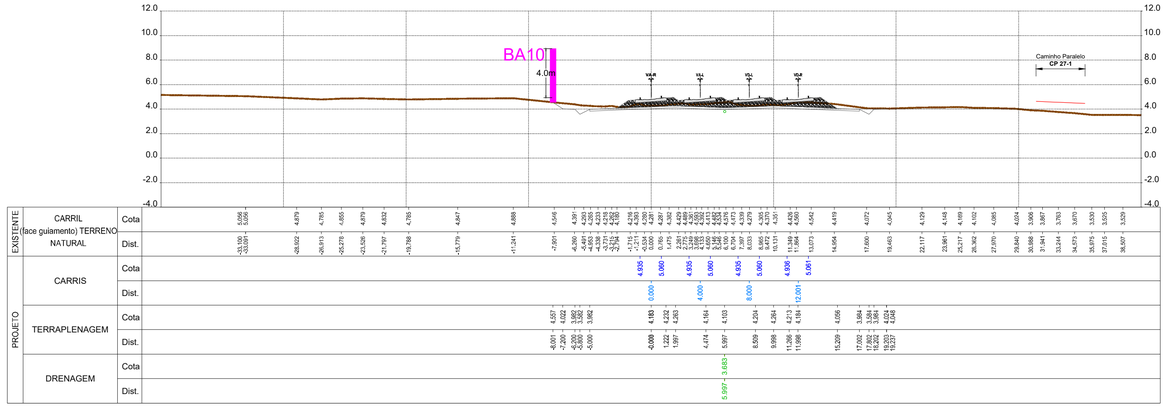
0 5 10m

Escala:
1:250



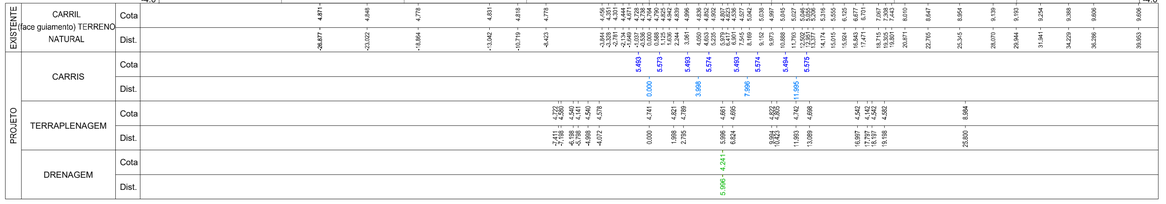
Pk 27+250.000
Km 27+259.026

P220



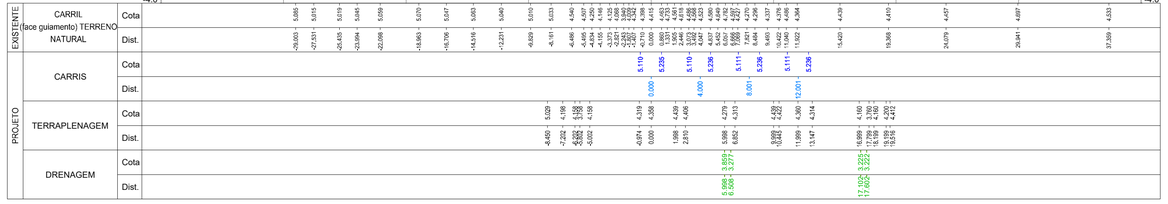
Pk 27+300.000
Km 27+306.949

P222



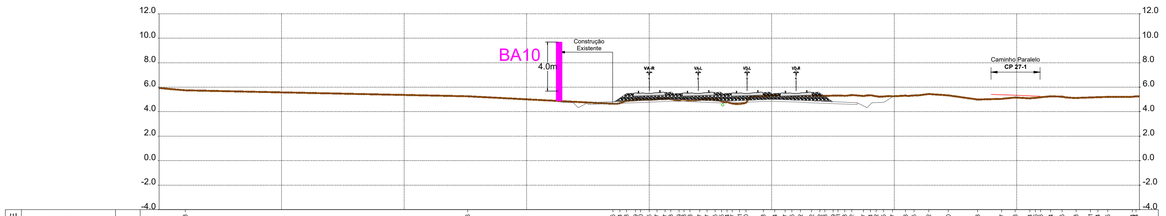
Pk 27+225.000
Km 27+234.028

P219



Pk 27+275.000
Km 27+284.019

P221



Pk 27+200.000
Km 27+209.028

P218

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

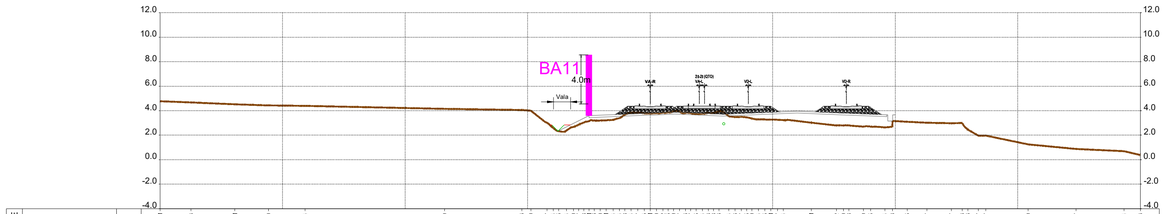
LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

DESENHO 2

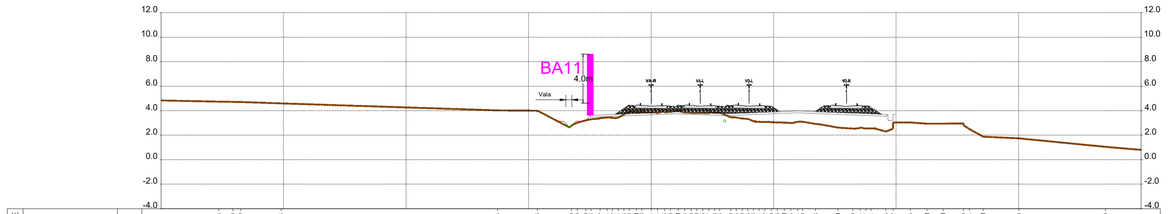
BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 10
Km 27+203 ao Km 27+310
FOLHA 17/45

0 5 10m
Escala:
1:250



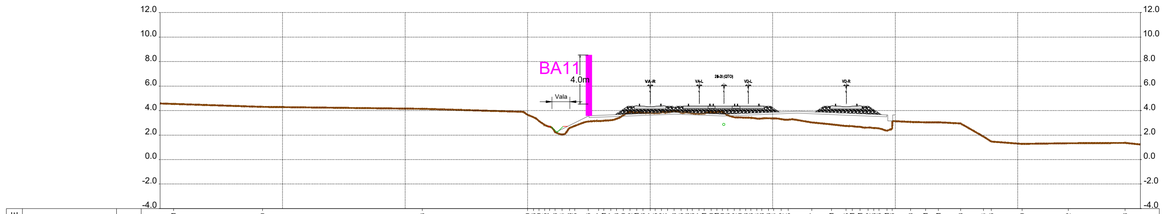
Pk 29+300.000
Km 29+305.674

P302



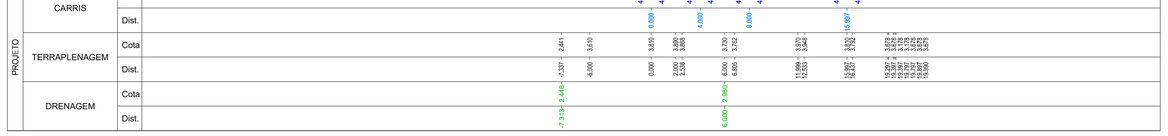
Pk 29+375.000
Km 29+380.674

P305



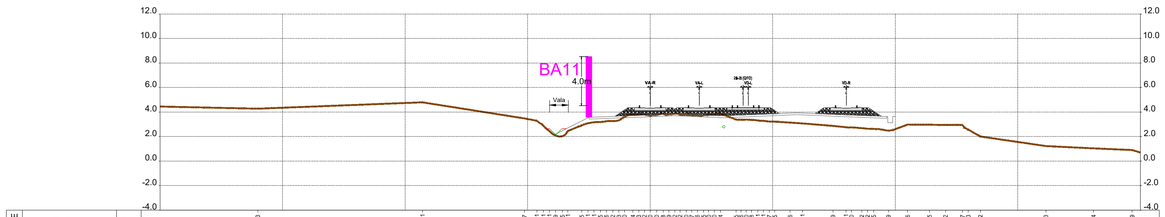
Pk 29+275.000
Km 29+280.017

P301



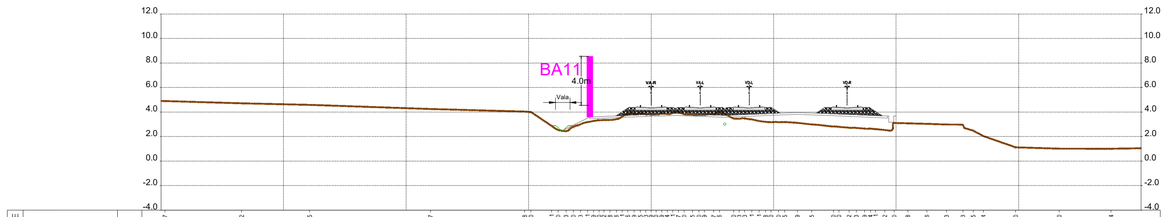
Pk 29+350.000
Km 29+355.674

P304



Pk 29+250.000
Km 29+255.017

P300



Pk 29+325.000
Km 29+330.674

P303

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

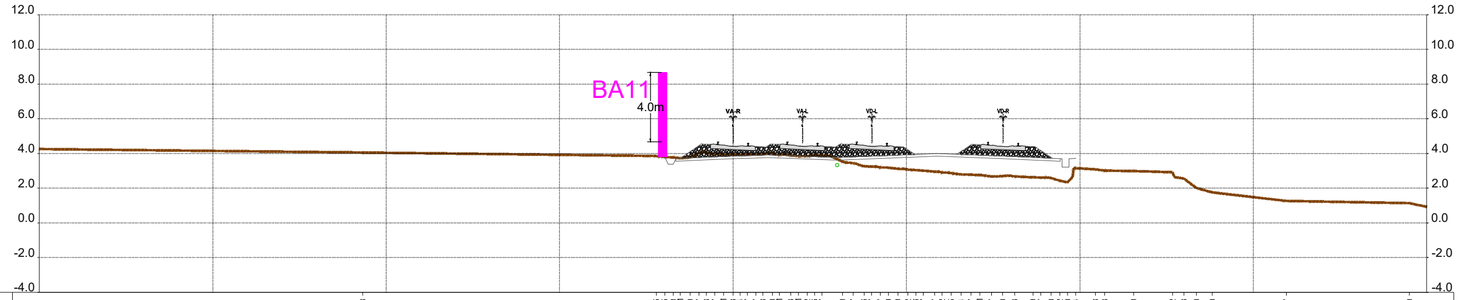
Projeto de Execução

DESENHO 2

BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 11
Km 29+254 ao Km 29+434

FOLHA 18/45

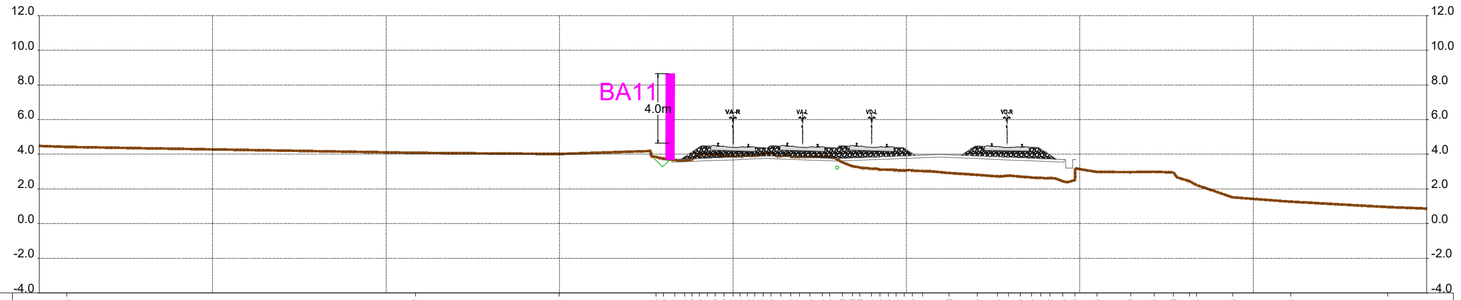
0 5 10m
Escala:
1:250



EXISTENTE	CARRIL (face guiamento) TERRENO NATURAL	Cota	4.058 3.855 3.825 3.791 4.033 4.077 3.891 3.948 3.968 4.137 4.184 3.958 4.001 3.898 3.943 3.852 3.977 3.839 3.447 3.256 3.247 3.197 3.180 3.119 3.072 3.045 3.007 2.947 2.902 2.872 2.794 2.777 2.765 2.677 2.700 2.683 2.629 2.617 2.597 2.432 2.340 2.347 3.088 3.013 2.990 2.822 2.558 2.010 1.760 1.267 1.139
		Dist.	-21.352 -4.419 -3.039 -2.044 -2.497 -1.533 -0.545 -0.053 0.000 0.455 0.855 1.721 2.576 2.870 3.322 3.783 4.262 4.758 6.313 6.932 7.554 7.988 8.543 8.956 9.561 10.044 10.567 11.022 12.044 12.566 13.156 13.725 14.183 14.903 15.548 16.238 17.290 17.740 18.197 18.843 19.282 19.796 20.865 21.412 23.091 25.334 25.697 26.725 27.633 31.901 38.007
PROJETO	CARRIS	Cota	4.668 4.593 4.668 4.593 4.668 4.593 4.653 4.593
		Dist.	0.000 4.000 8.000 15.574
	TERRAPLENAGEM	Cota	3.813 3.710 3.776 3.770 3.710 3.782 3.842 3.878 3.922 3.850 3.762 3.881 3.993 3.908 3.842 3.767 3.710 3.710 3.710 3.722
		Dist.	-4.053 -3.688 -3.348 -3.248 -3.238 -1.486 0.000 0.300 2.002 3.788 6.002 9.238 11.789 13.921 15.575 17.451 18.875 18.975 19.075 19.175 19.275 19.772
	DRENAGEM	Cota	3.211
		Dist.	6.002

Pk 29+425.000
Km 29+432.751

P307



EXISTENTE	CARRIL (face guiamento) TERRENO NATURAL	Cota	4.425 4.082 4.017 3.855 3.753 3.672 3.693 3.719 3.788 3.977 3.919 3.882 3.918 3.912 3.915 3.884 3.945 3.947 3.843 3.958 3.875 3.511 3.211 3.165 3.116 3.099 3.067 3.054 3.044 2.921 2.815 2.726 2.777 2.715 2.666 2.647 2.632 2.519 2.983 2.970 2.993 2.961 2.454 2.226 1.518 1.266 0.957
		Dist.	-38.403 -16.298 -10.016 -4.443 -4.020 -3.353 -2.787 -2.348 -1.466 -0.930 0.000 0.455 0.855 1.738 2.768 3.336 3.847 4.425 5.150 5.988 6.307 6.999 7.514 8.065 8.447 8.969 9.434 10.024 10.626 12.453 14.077 15.257 15.876 16.558 17.214 17.746 18.280 19.026 19.717 20.976 22.926 24.281 25.398 26.312 26.726 28.809 32.170 37.758
PROJETO	CARRIS	Cota	4.638 4.583 4.638 4.583 4.638 4.583 4.622 4.583
		Dist.	0.000 4.000 8.000 15.704
	TERRAPLENAGEM	Cota	3.690 3.699 3.772 3.831 3.875 3.911 3.823 3.751 3.863 3.987 3.900 3.831 3.757 3.699 3.710 3.710 3.699 3.699 3.699 3.699
		Dist.	-3.536 -3.299 -1.466 0.000 1.104 2.001 4.218 6.001 9.251 11.898 14.066 15.795 17.661 19.095 19.195 19.295 19.395 19.595 19.695 19.795 19.895 19.988
	DRENAGEM	Cota	3.268 3.136
		Dist.	-4.066 6.001

Pk 29+400.000
Km 29+407.751

P306

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

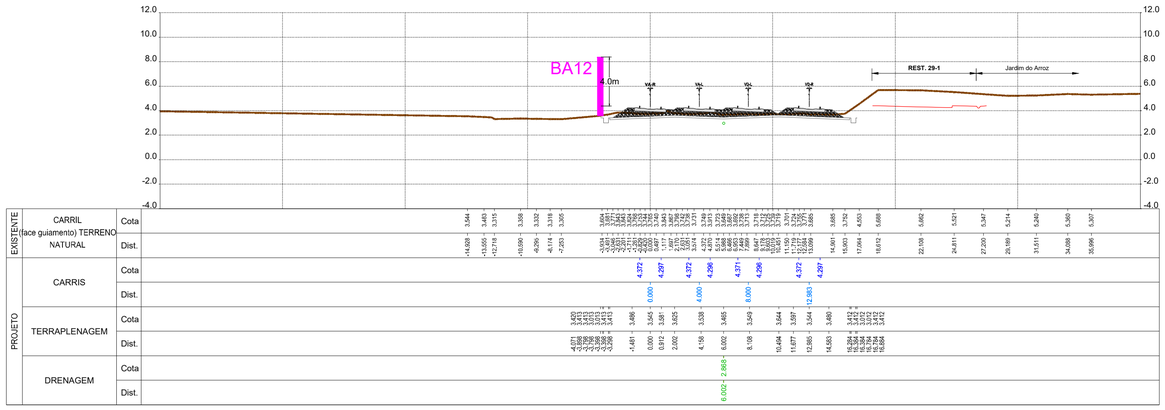
DESENHO 2

BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 11
Km 29+254 ao Km 29+434

FOLHA 19/45

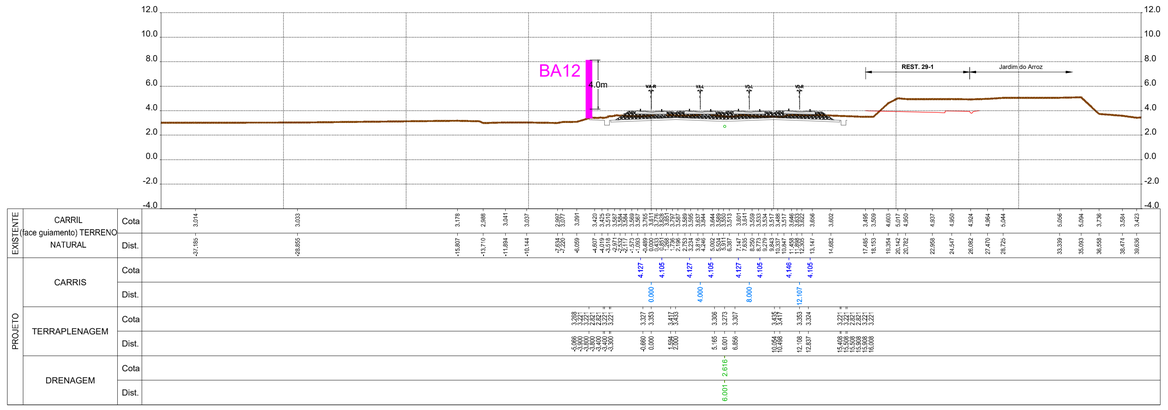
0 5 10m

Escala:
1:250



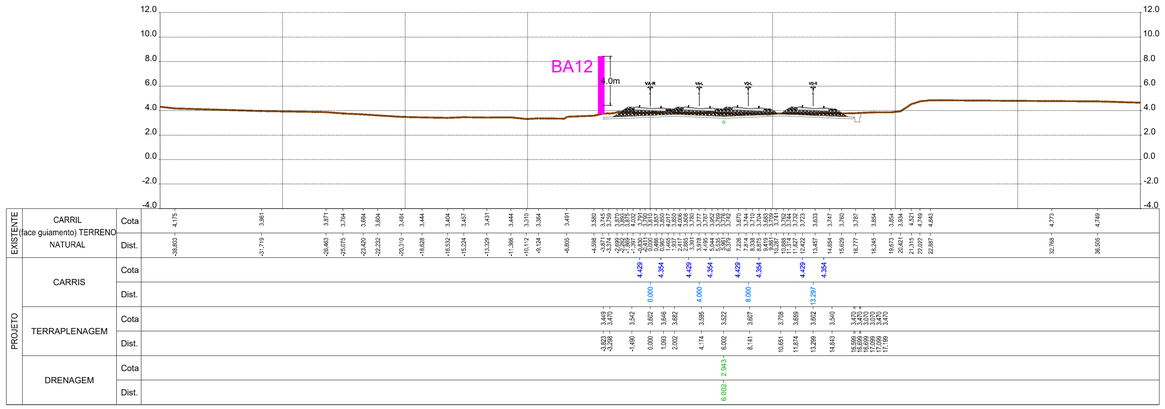
Pk 29+650.000
Km 29+647.264

P316



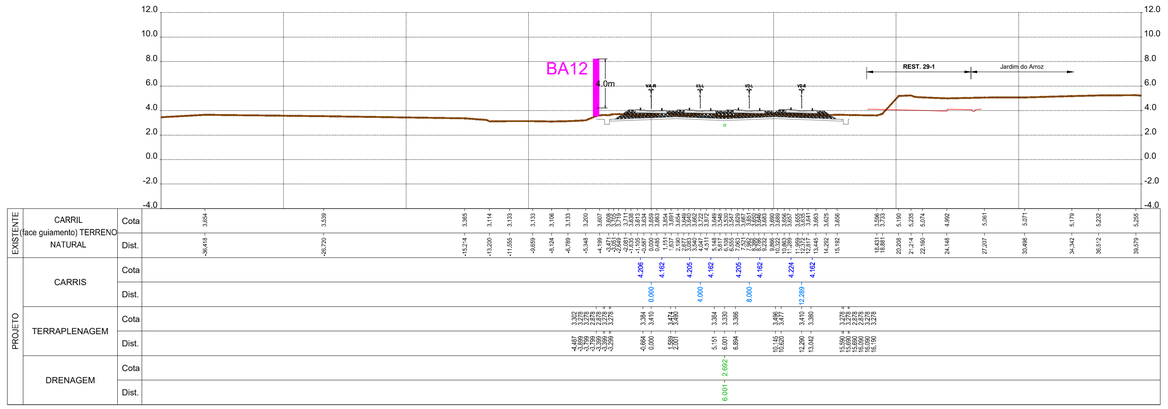
Pk 29+725.000
Km 29+731.005

P319



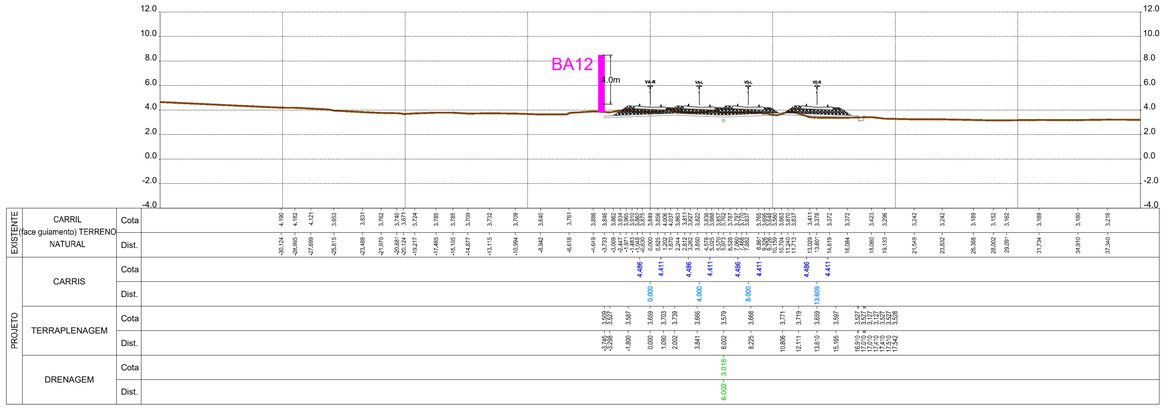
Pk 29+625.000
Km 29+622.269

P315



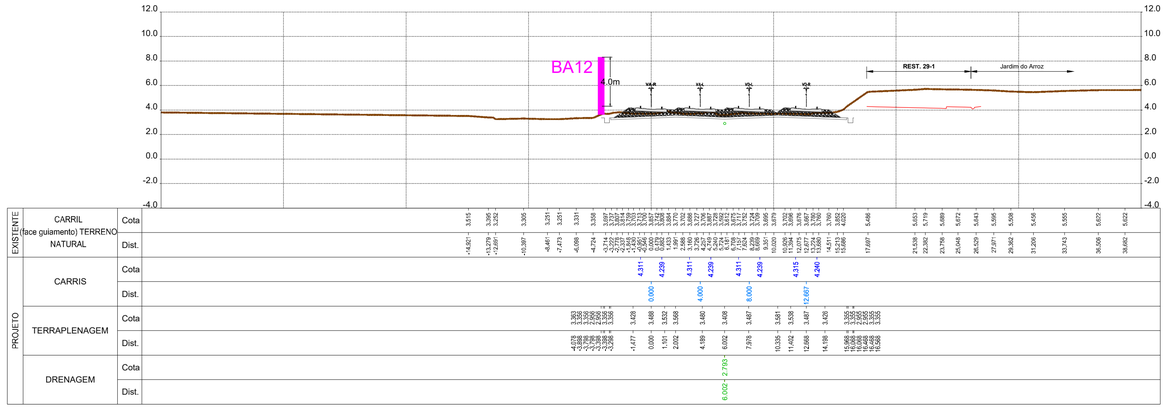
Pk 29+700.000
Km 29+706.015

P318



Pk 29+600.000
Km 29+597.277

P314



Pk 29+675.000
Km 29+672.249

P317

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

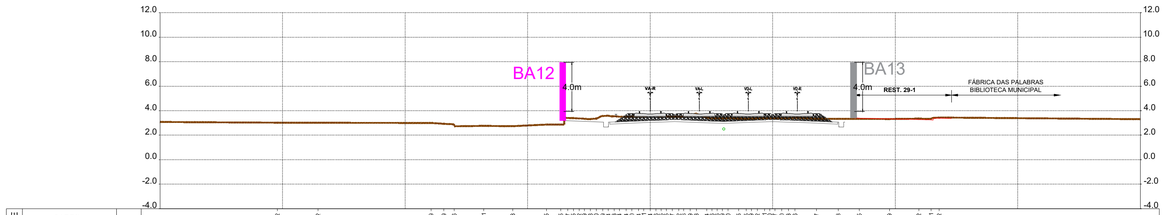
Projeto de Execução

DESENHO 2

BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 12
Km 29+588 ao Km 30+171

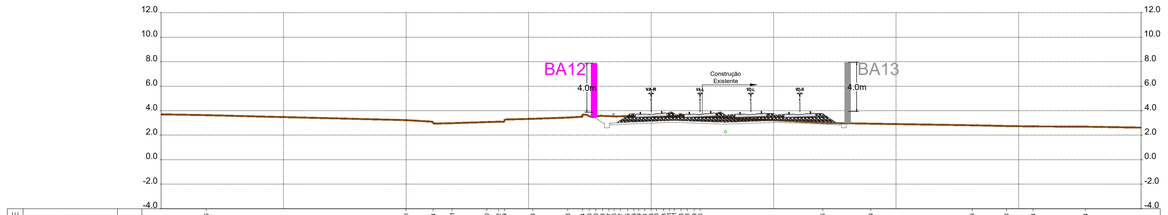
FOLHA 20/45

0 5 10m
Escala:
1:250



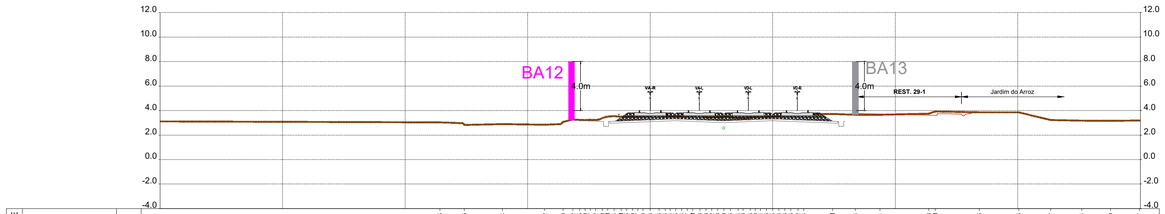
Pk 29+800.000
Km 29+807.267

P322



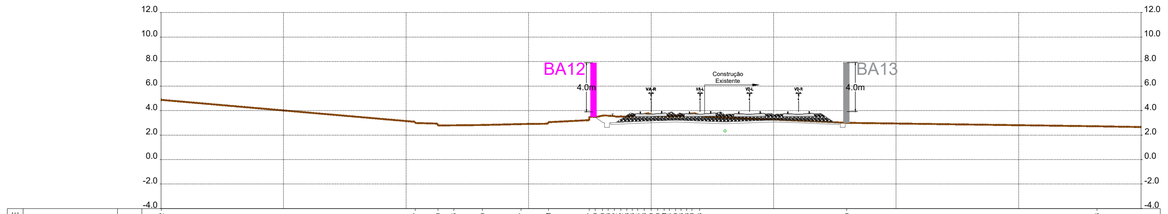
Pk 29+875.000
Km 29+882.268

P325



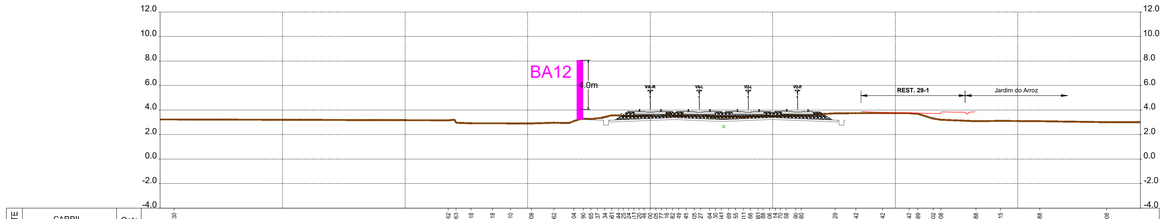
Pk 29+775.000
Km 29+781.004

P321



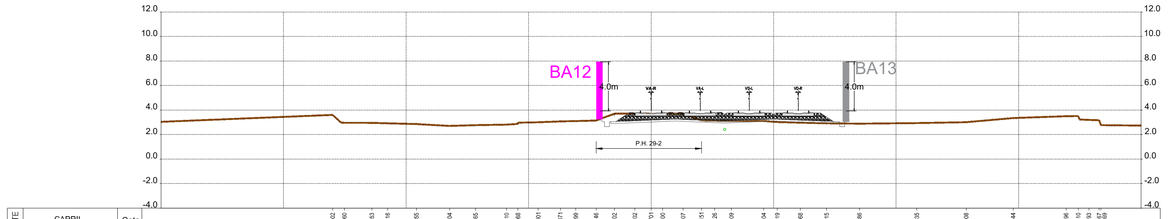
Pk 29+850.000
Km 29+857.265

P324



Pk 29+750.000
Km 29+756.003

P320



Pk 29+825.000
Km 29+832.267

P323

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

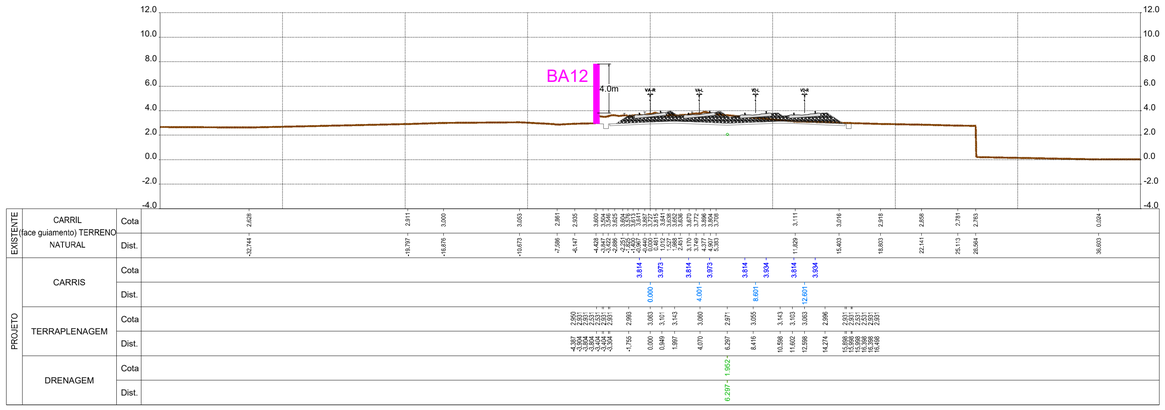
Projeto de Execução

DESENHO 2

BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 12
Km 29+588 ao Km 30+171

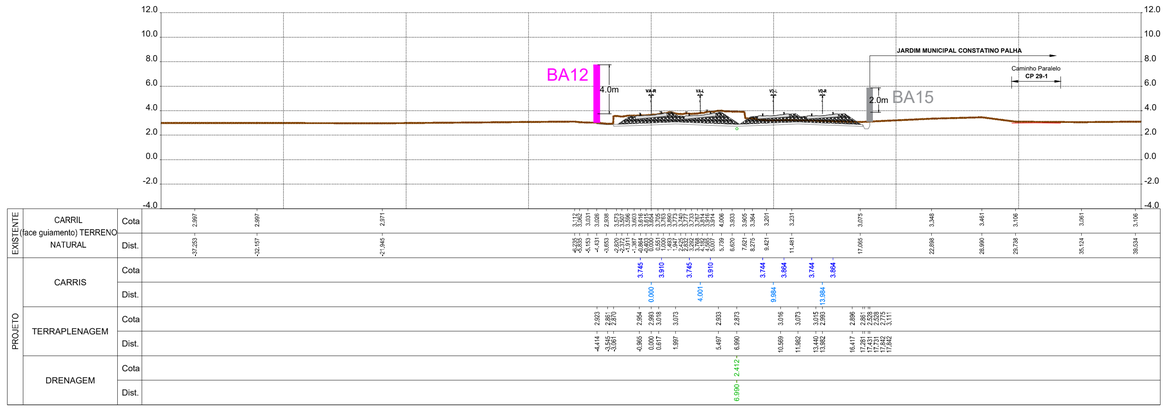
FOLHA 21/45

0 5 10m
Escala:
1:250



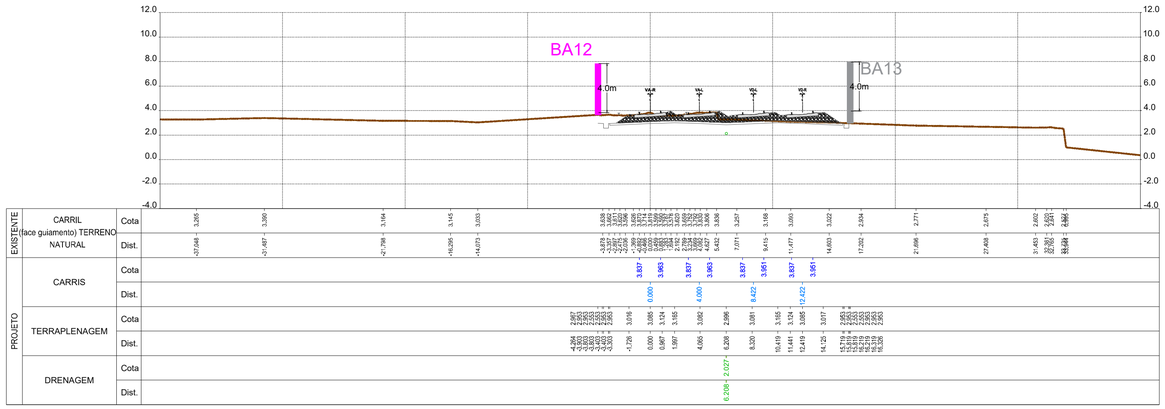
Pk 29+950.000
Km 29+952.626

P328



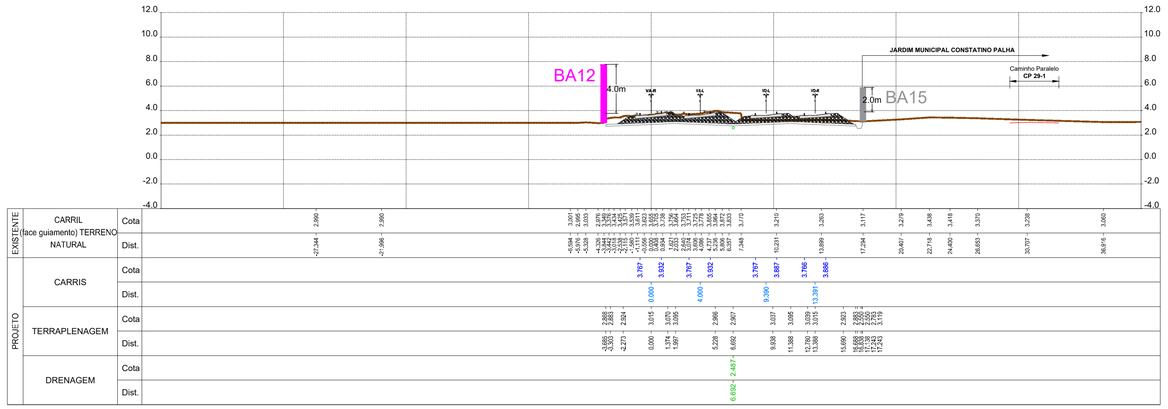
Pk 30+025.000
Km 30+031.562

P331



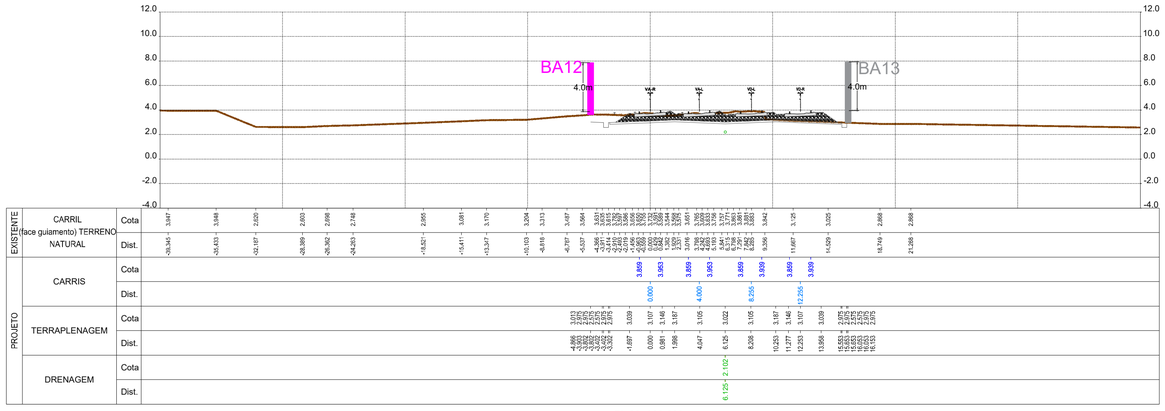
Pk 29+925.000
Km 29+927.585

P327



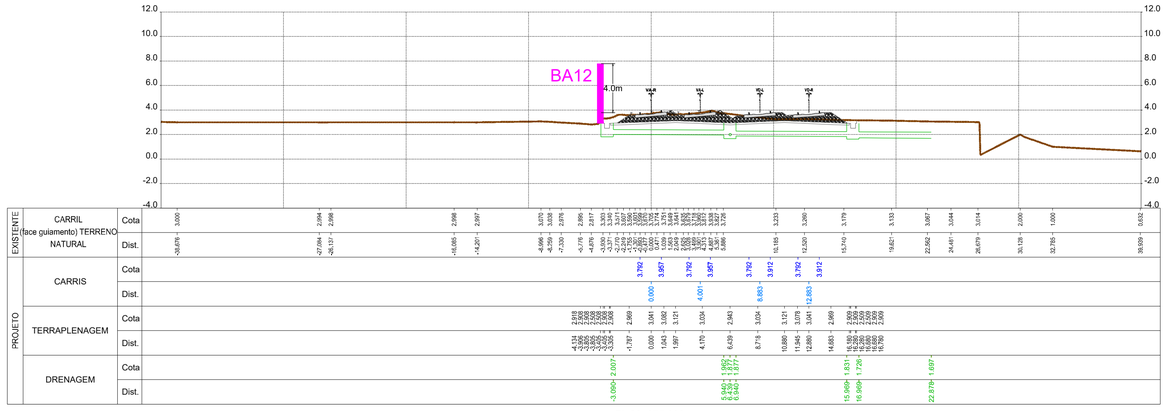
Pk 30+000.000
Km 30+006.557

P330



Pk 29+900.000
Km 29+902.549

P326



Pk 29+975.000
Km 29+977.648

P329

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

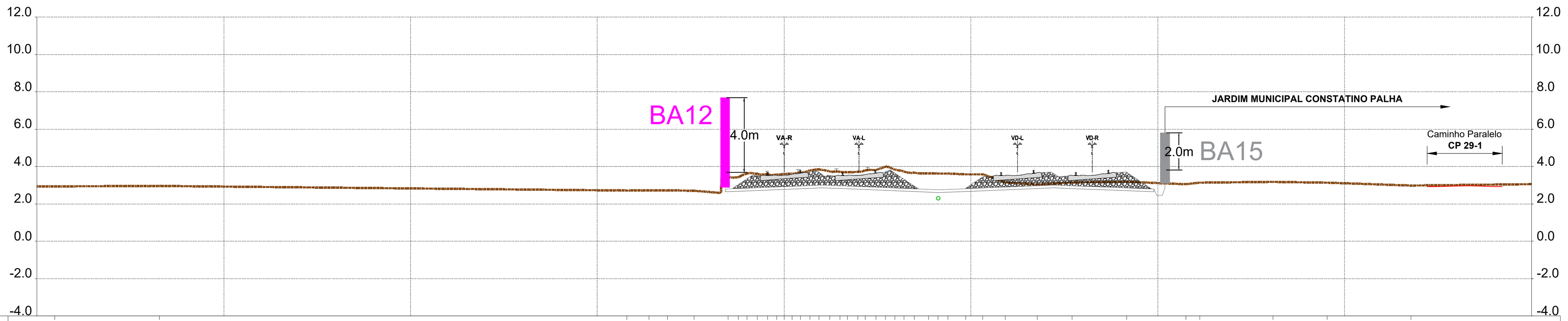
Projeto de Execução

DESENHO 2

BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 12
Km 29+588 ao Km 30+171

FOLHA 22/45

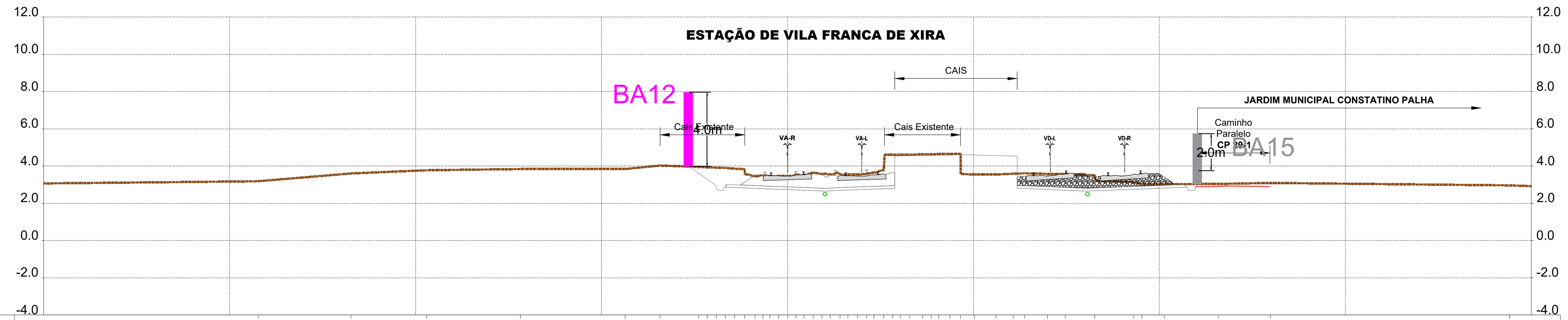
0 5 10m
Escala:
1:250



EXISTENTE	CARRIL (face guiamento) TERRENO NATURAL	Cota	2.938 2.960 2.715 2.721 2.725 2.703 3.414 3.425 3.620 3.605 3.587 3.578 3.597 3.616 3.698 3.797 3.844 3.730 3.718 3.690 3.713 3.705 3.810 3.996 3.834 3.726 3.681 3.641 3.623 3.626 3.581 3.579 3.152 3.028 3.148 3.183 3.053 3.136 3.178 3.136 2.982
		Dist.	-39.041 -33.436 -8.432 -7.246 -6.242 -4.827 -3.012 -2.454 -1.979 -1.447 -0.889 -0.402 0.000 0.416 0.860 1.368 1.865 2.445 2.980 3.392 3.931 4.337 4.905 5.413 5.934 6.423 6.965 7.719 8.240 8.766 9.727 10.636 11.824 13.554 15.405 18.332 21.495 22.239 26.152 29.065 33.554
PROJETO	CARRIS	Cota	3.680 3.805 3.680 3.805 3.680 3.800 3.680 3.800
		Dist.	0.000 4.000 12.485 16.488
	TERRAPLENAGEM	Cota	2.802 2.827 2.929 2.993 2.961 2.759 2.806 3.009 2.929 2.904 2.797 2.463 2.463 2.855 3.099
		Dist.	-3.161 -2.540 0.000 1.609 3.188 8.241 9.423 14.485 16.486 17.115 19.786 19.937 20.237 20.387 20.387
	DRENAGEM	Cota	2.195
		Dist.	8.241

Pk 30+100.000
Km 30+104.027

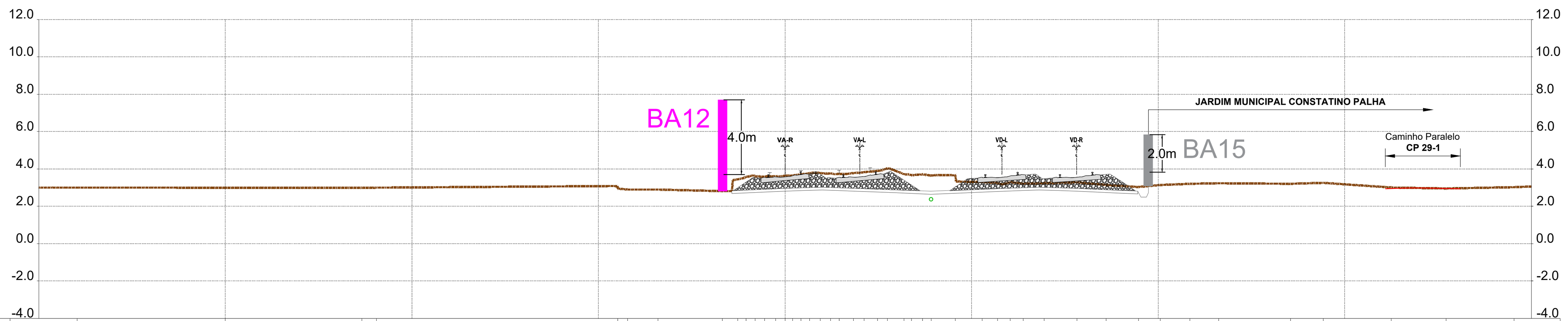
P334



EXISTENTE	CARRIL (face guiamento) TERRENO NATURAL	Cota	3.182 3.601 3.772 3.837 3.839 4.024 3.946 3.933 3.910 3.897 3.858 3.549 3.440 3.494 3.454 3.472 3.457 3.692 3.497 3.646 3.573 3.556 3.562 3.548 3.556 3.583 3.648 3.788 4.611 4.610 4.609 4.625 4.632 4.644 4.651 4.661 3.542 3.544 3.585 3.606 3.577 3.577 3.498 3.128 3.018 3.026 3.038 3.090 2.961
		Dist.	-28.468 -23.467 -19.398 -14.357 -8.730 -6.844 -4.767 -4.298 -3.830 -3.334 -2.845 -2.291 -1.745 -1.334 -0.933 -0.467 0.000 0.453 0.904 1.390 1.848 2.303 2.820 3.256 3.776 4.251 4.655 5.175 5.658 6.071 6.572 7.265 7.744 8.147 8.740 9.300 10.068 11.202 12.130 12.753 13.970 14.933 16.521 18.616 19.058 20.272 23.157 25.961 38.823
PROJETO	CARRIS	Cota	3.636 3.697 3.636 3.697 3.636 3.741 3.636 3.741
		Dist.	0.000 4.000 14.117 18.118
	TERRAPLENAGEM	Cota	3.972 3.016 2.683 2.683 3.016 2.910 2.884 2.820 2.834 2.955 4.549 4.602 4.589 4.536 2.924 2.805 2.822 2.885 2.913 3.017 2.683 2.683 3.017 3.017
		Dist.	-5.335 -3.901 -3.751 -3.451 -3.301 -0.638 0.000 1.607 2.741 5.768 6.421 9.057 9.723 12.345 13.135 16.115 16.543 18.116 18.830 21.415 21.565 21.865 22.019 22.036
	DRENAGEM	Cota	2.384 2.385
		Dist.	2.000 16.115

Pk 30+150.000
Km 30+154.031

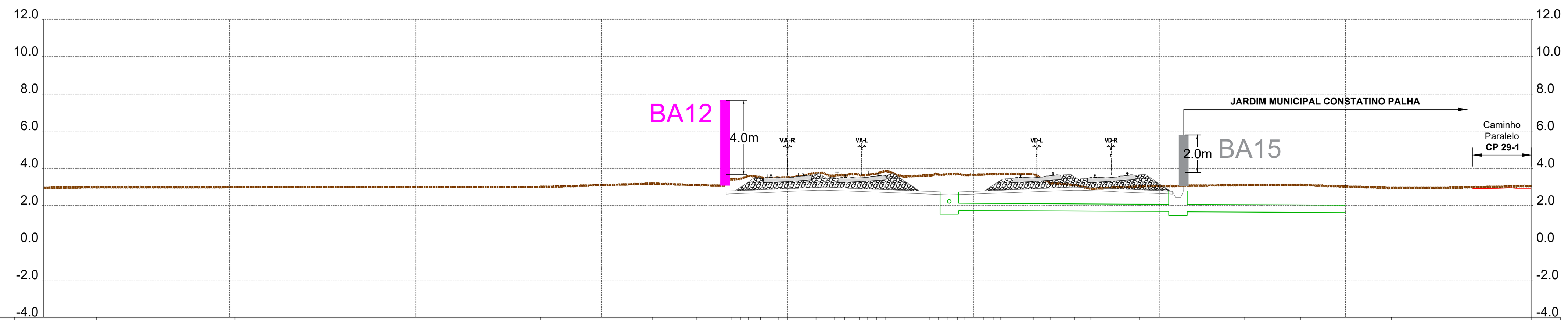
P336



EXISTENTE	CARRIL (face guiamento) TERRENO NATURAL	Cota	2.998 2.992 2.982 2.994 2.944 2.892 2.892 2.807 3.442 3.571 3.598 3.587 3.607 3.625 3.646 3.900 3.773 3.779 3.758 3.933 3.775 3.823 3.894 4.021 3.716 3.667 3.703 3.636 3.654 3.296 3.244 3.288 3.209 3.234 3.275 3.141 3.029 3.136 3.200 3.230 3.202 3.252 3.001 2.950 3.020
		Dist.	-37.938 -30.004 -22.697 -21.906 -8.971 -8.440 -6.804 -3.353 -2.539 -2.096 -1.602 -1.107 -0.499 0.000 0.410 0.845 1.323 1.894 2.445 2.895 3.659 4.230 4.961 5.489 6.373 6.778 7.373 7.832 9.136 10.555 11.382 12.058 12.766 13.885 15.642 17.203 18.945 20.103 21.698 23.253 27.104 28.855 32.494 35.429 39.080
PROJETO	CARRIS	Cota	3.700 3.853 3.700 3.854 3.700 3.820 3.700 3.820
		Dist.	0.000 4.000 11.615 15.617
	TERRAPLENAGEM	Cota	2.835 2.873 2.949 2.973 3.029 2.869 2.796 2.956 3.029 2.973 2.949 2.857 2.817 2.483 2.483 2.716 3.078
		Dist.	-2.844 -1.892 0.000 0.620 1.997 5.981 7.805 11.808 13.613 15.005 15.614 17.913 18.914 19.064 19.364 19.469 19.469
	DRENAGEM	Cota	2.262
		Dist.	7.805

Pk 30+075.000
Km 30+081.562

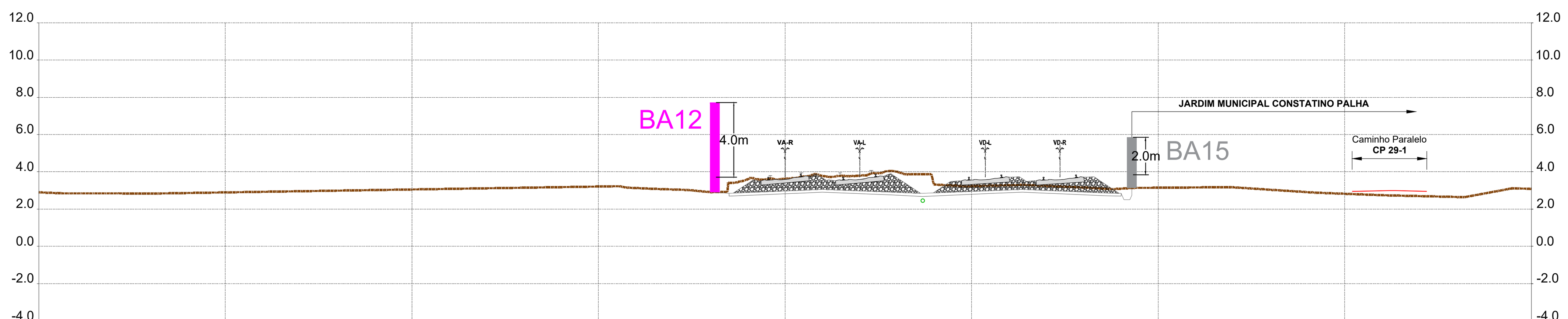
P333



EXISTENTE	CARRIL (face guiamento) TERRENO NATURAL	Cota	2.981 2.995 2.996 3.000 3.182 3.102 3.072 3.412 3.440 3.594 3.522 3.504 3.522 3.521 3.560 3.666 3.737 3.736 3.612 3.619 3.654 3.652 3.711 3.866 3.604 3.568 3.601 3.616 3.665 3.691 3.730 3.549 3.650 3.668 3.676 3.712 3.700 3.208 3.108 2.896 3.032 3.103 3.103 2.948 2.953 3.053
		Dist.	-37.157 -29.711 -18.251 -13.288 -7.250 -4.879 -3.939 -2.998 -2.510 -2.101 -1.455 -1.045 -0.506 0.000 0.510 1.113 1.539 1.968 2.514 3.072 3.864 4.281 4.791 5.274 6.043 6.492 7.081 7.644 8.121 8.633 9.133 9.543 9.985 10.522 11.064 11.470 13.226 14.148 15.430 16.313 18.914 24.580 27.600 32.469 35.358 39.990
PROJETO	CARRIS	Cota	3.658 3.751 3.658 3.751 3.658 3.778 3.658 3.778
		Dist.	0.000 3.999 13.400 17.402
	TERRAPLENAGEM	Cota	2.775 2.882 2.907 2.971 2.935 2.719 2.770 2.987 2.907 2.881 2.775 2.441 2.441 2.828 3.062
		Dist.	-3.284 -0.607 0.000 1.610 3.278 8.698 9.975 15.399 17.400 18.035 20.701 20.851 21.151 21.301 21.301
	DRENAGEM	Cota	2.120 1.733 1.676 1.671 1.629
		Dist.	8.698 9.199 20.501 21.501 30.000

Pk 30+125.000
Km 30+129.030

P335



EXISTENTE	CARRIL (face guiamento) TERRENO NATURAL	Cota	2.848 2.840 3.229 3.152 3.088 3.026 2.904 2.928 3.408 3.468 3.673 3.586 3.612 3.574 3.631 3.665 3.937 3.781 3.868 3.749 3.735 3.785 3.783 3.810 4.076 3.923 4.035 3.995 3.859 3.878 3.223 3.298 3.130 3.073 3.141 3.149 3.181 2.885 2.739 2.643 3.113
		Dist.	-38.737 -33.637 -8.896 -8.474 -7.062 -5.181 -3.976 -3.529 -2.907 -2.477 -1.877 -1.333 -0.905 -0.468 0.000 0.440 0.873 1.300 1.738 2.203 2.640 3.166 3.598 4.214 4.622 5.029 5.534 6.041 6.567 7.845 9.695 12.793 16.610 17.584 18.816 20.462 23.827 28.384 32.210 36.432 38.958
PROJETO	CARRIS	Cota	3.722 3.887 3.722 3.888 3.722 3.842 3.722 3.842
		Dist.	0.000 4.000 10.727 14.728
	TERRAPLENAGEM	Cota	2.915 2.851 2.934 2.971 2.996 3.051 2.902 2.836 2.987 3.051 2.994 2.971 2.876 2.839 2.505 2.505 2.746 3.128
		Dist.	-3.765 -3.005 -0.928 0.000 0.619 1.997 5.715 7.361 11.131 12.725 14.150 14.725 17.091 18.024 18.174 18.474 18.582 18.582
	DRENAGEM	Cota	2.337
		Dist.	7.361

Pk 30+050.000
Km 30+056.564

P332

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

DESENHO 2

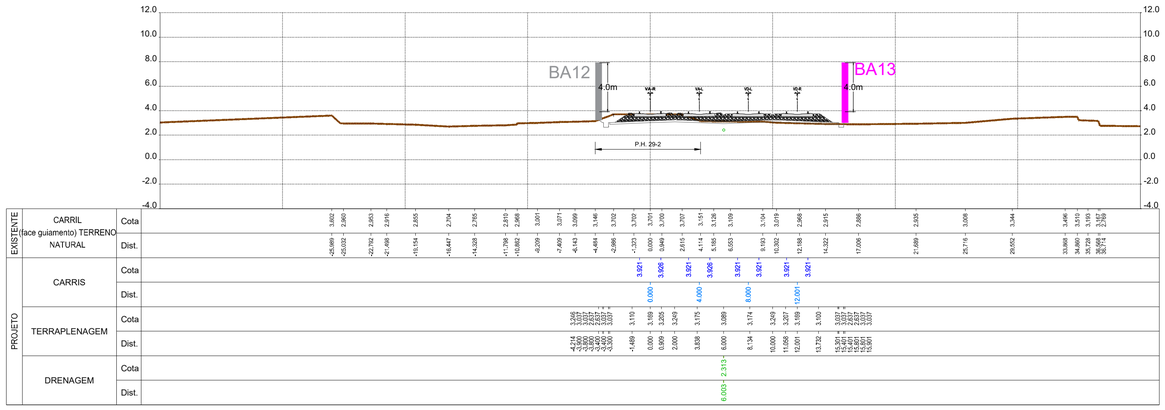
BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 12

Km 29+588 ao Km 30+171

FOLHA 23/45

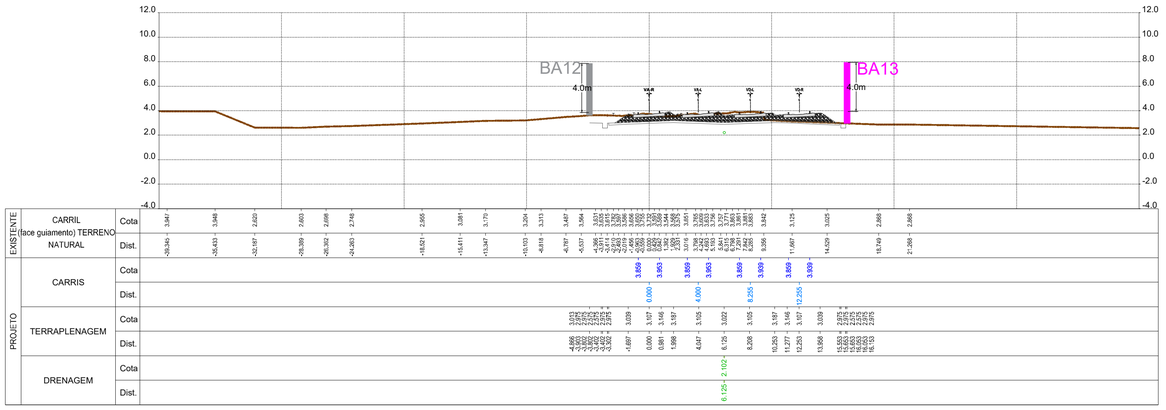
0 5 10m

Escala:
1:250



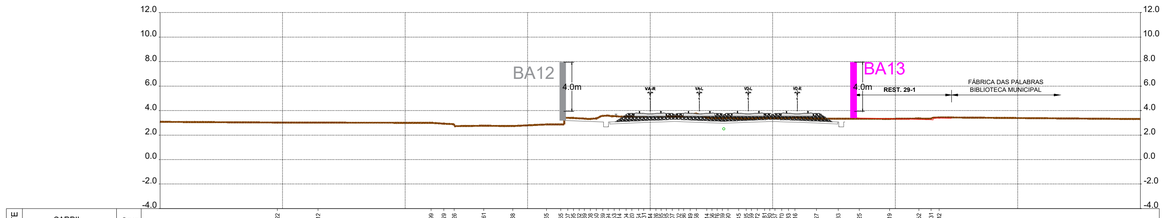
Pk 29+825.000
Km 29+832.267

P323



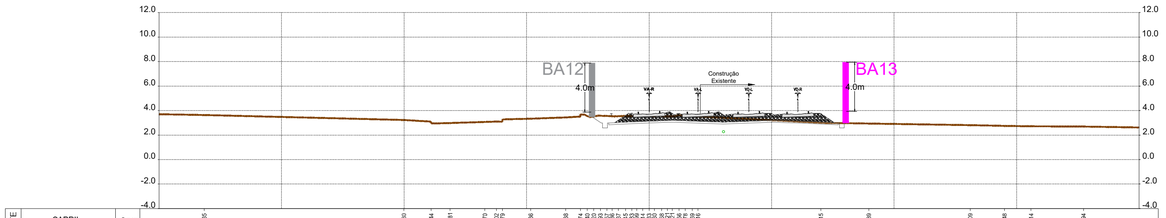
Pk 29+900.000
Km 29+902.549

P326



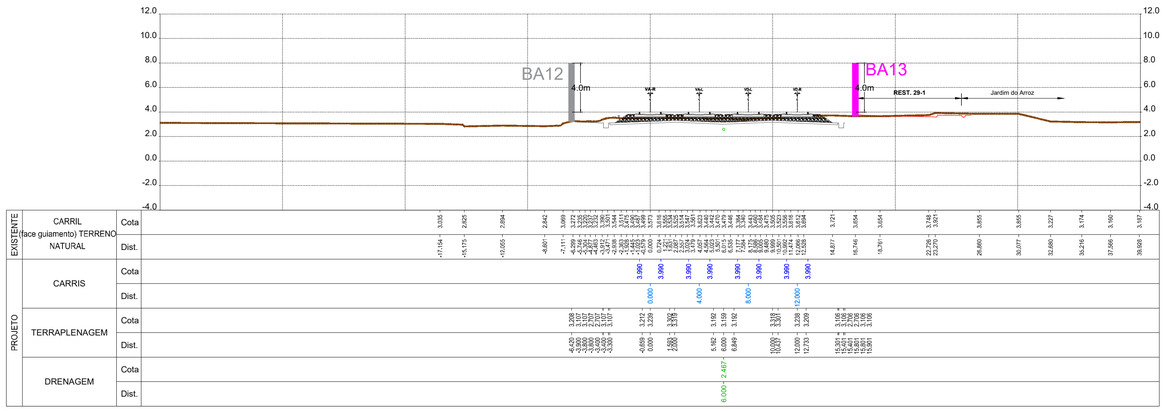
Pk 29+800.000
Km 29+807.267

P322



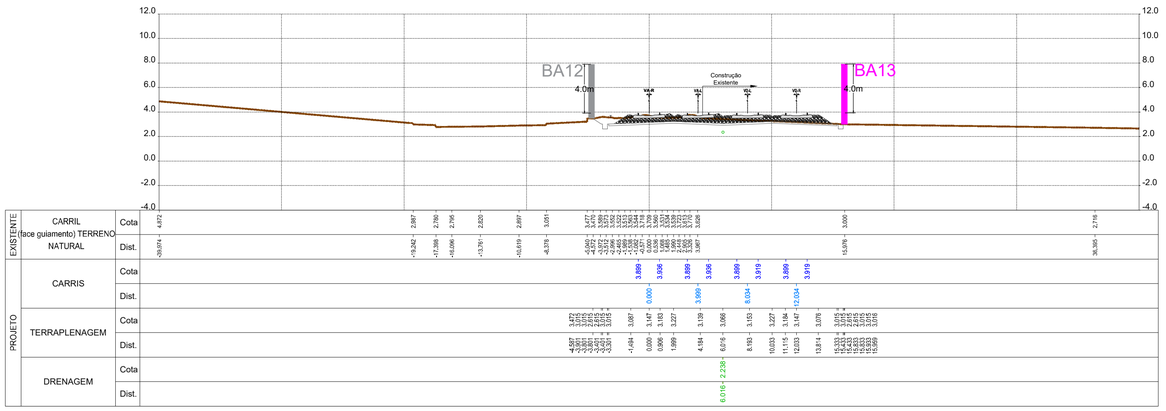
Pk 29+875.000
Km 29+882.268

P325



Pk 29+775.000
Km 29+781.004

P321



Pk 29+850.000
Km 29+857.265

P324

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

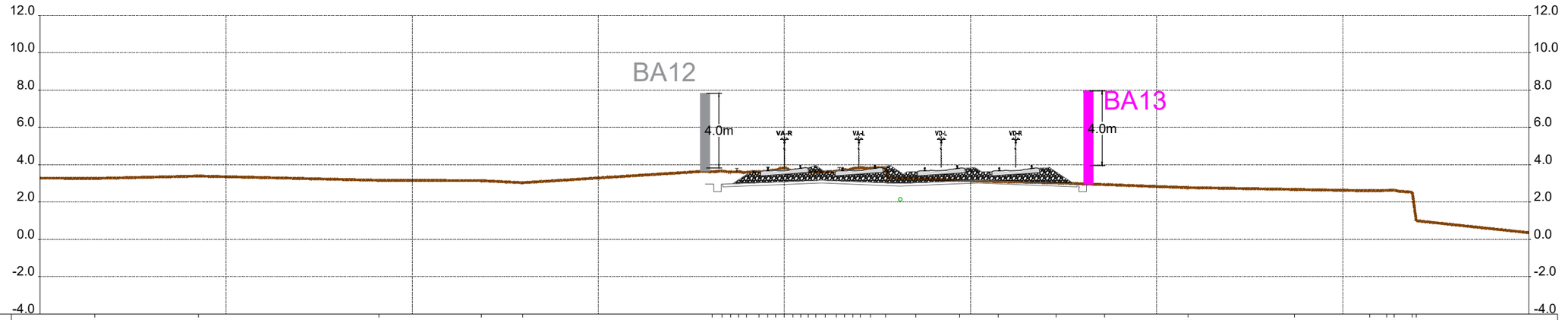
Projeto de Execução

DESENHO 2

BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 13
Km 29+757 ao Km 29+933

FOLHA 24/45

0 5 10m
Escala:
1:250



EXISTENTE	CARRIL (face guiamento) TERRENO NATURAL	Cota	3.265 3.390 3.164 3.145 3.033 3.638 3.662 3.611 3.620 3.596 3.626 3.712 3.819 3.598 3.597 3.578 3.620 3.659 3.752 3.708 3.836 3.806 3.836 3.257 3.168 3.093 3.022 2.934 2.771 2.675 2.602 2.620 2.641 2.667 2.695
		Dist.	-37.048 -31.487 -21.798 -16.295 -14.073 -3.878 -3.357 -2.897 -2.475 -2.036 -1.369 -0.486 0.000 0.459 1.083 1.694 2.192 2.789 3.234 3.708 4.082 4.627 5.432 7.071 9.415 11.477 14.603 17.202 21.696 27.408 31.453 32.361 32.765 33.225 33.944
PROJETO	CARRIS	Cota	3.837 3.963 3.837 3.963 3.837 3.951 3.837 3.951
		Dist.	0.000 4.000 8.422 12.422
	TERRAPLENAGEM	Cota	2.967 2.953 2.953 2.553 2.553 2.553 2.953 3.016 3.085 3.124 3.165 3.082 2.996 3.081 3.165 3.124 3.086 3.017 2.953 2.953 2.553 2.553 2.553 2.553 2.953 2.953 2.953
		Dist.	-4.264 -3.903 -3.803 -3.803 -3.403 -3.403 -3.303 -1.726 0.000 0.967 1.997 4.065 6.208 8.320 10.419 11.441 12.419 14.125 15.719 15.819 15.819 16.219 16.219 16.319 16.326
	DRENAGEM	Cota	2.027
		Dist.	6.208

Pk 29+925.000
Km 29+927.585

P327

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

DESENHO 2

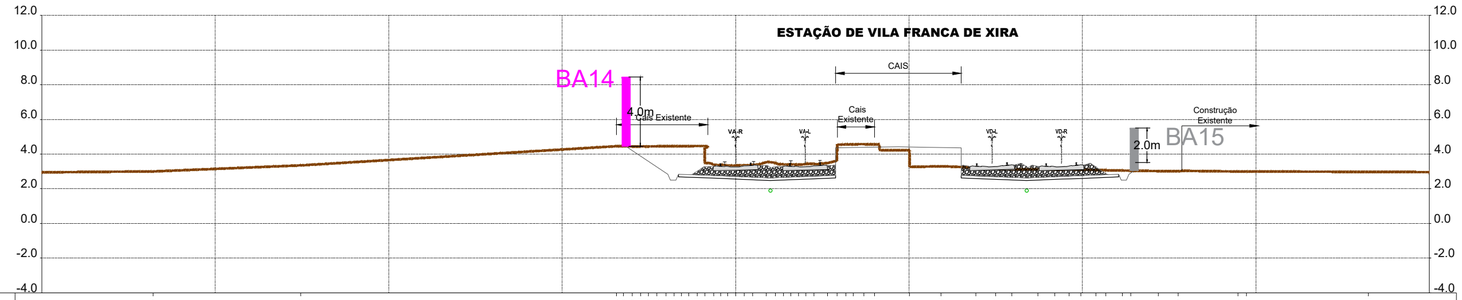
BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 13

Km 29+757 ao Km 29+933

FOLHA 25/45

0 5 10m

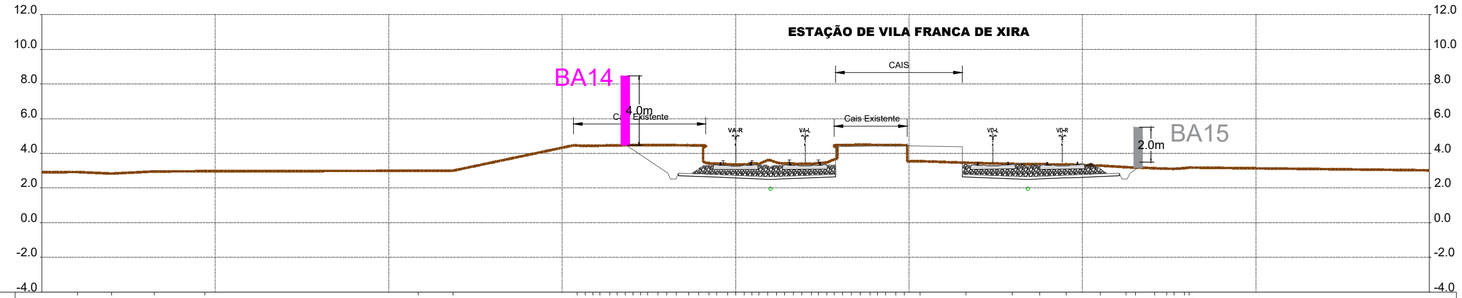
Escala:
1:250



EXISTENTE	CARRIL (face guiamento) TERRENO NATURAL	Cota	3.000 3.349 4.456 4.431 4.440 4.443 4.443 4.448 4.448 4.459 4.457 4.464 4.464 3.380 3.331 3.365 3.374 3.535 3.498 3.458 3.395 3.413 3.432 3.488 3.617 4.552 4.569 4.564 4.222 3.297 3.226 3.159 3.119 3.114 3.105 3.105 3.106 3.084 3.077 3.052 3.042 3.021 3.010 2.997 2.997 2.974
		Dist.	-33.583 -25.986 -9.673 -8.960 -5.474 -4.534 -4.534 -4.531 -3.033 -2.771 -2.771 -2.669 -2.669 -0.704 0.000 0.982 1.759 2.744 2.760 3.633 3.633 4.524 5.292 5.839 6.699 6.791 7.387 8.001 10.019 11.841 13.852 14.094 15.931 17.438 18.405 19.220 19.909 20.778 21.343 22.302 22.782 24.364 25.516 28.970 29.460 36.471
PROJETO	CARRIS	Cota	3.457 3.497 3.457 3.502 3.457 3.511 3.457 3.509
		Dist.	0.000 4.000 14.779 18.778
	TERRAPLENAGEM	Cota	4.446 2.827 2.504 2.504 2.837 2.743 2.765 2.648 2.625 2.734 2.776 4.377 4.430 4.410 4.357 2.736 2.626 2.647 2.706 2.741 2.838 2.504 2.504 3.041
		Dist.	-6.314 -0.932 0.000 1.439 1.999 4.722 5.769 6.765 9.388 10.374 13.008 14.026 16.178 17.313 18.777 19.655 22.077 22.527 22.527 22.677 22.963
	DRENAGEM	Cota	1.777 1.778
		Dist.	2.000 16.778

Pk 30+350.000
Km 30+356.405

P344



EXISTENTE	CARRIL (face guiamento) TERRENO NATURAL	Cota	2.921 2.833 2.956 2.988 2.992 3.000 4.446 4.431 4.456 4.443 4.443 4.458 4.458 4.465 4.472 4.476 4.473 4.469 4.464 4.462 3.347 3.356 3.366 3.388 3.388 3.377 3.404 3.408 3.407 3.395 3.416 3.462 3.547 3.457 3.391 3.370 3.363 3.291 3.301 3.182 3.139 3.115 3.106 3.179 3.179
		Dist.	-37.947 -35.981 -33.513 -30.601 -18.310 -16.296 -9.136 -8.681 -8.681 -7.821 -6.834 -6.834 -5.304 -5.304 -5.479 -4.489 -3.479 -3.479 -2.701 -2.129 -1.347 -1.347 -0.456 0.000 0.488 1.535 1.842 2.813 3.324 3.324 4.084 4.084 5.265 6.173 6.688 6.688 7.762 8.184 8.184 9.227 9.731 10.633 13.275 15.563 17.536 19.063 21.028 22.504 23.059 24.155 24.852 25.274 25.274 26.449 26.449
PROJETO	CARRIS	Cota	3.479 3.482 3.479 3.469 3.479 3.500 3.479 3.500
		Dist.	-0.001 3.999 14.833 18.833
	TERRAPLENAGEM	Cota	4.465 2.860 2.526 2.526 2.860 2.765 2.728 2.670 2.648 2.690 2.798 4.400 4.452 4.432 4.379 2.757 2.648 2.689 2.728 2.763 2.860 2.526 2.526 2.860 3.177
		Dist.	-6.309 -3.900 -3.750 -3.450 -3.300 -0.939 0.000 1.439 2.000 3.052 5.769 6.777 9.416 10.415 13.063 14.087 16.833 17.372 18.833 19.716 22.133 22.283 22.583 22.733 23.209
	DRENAGEM	Cota	1.852 1.853
		Dist.	2.000 16.833

Pk 30+325.000
Km 30+331.406

P343

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

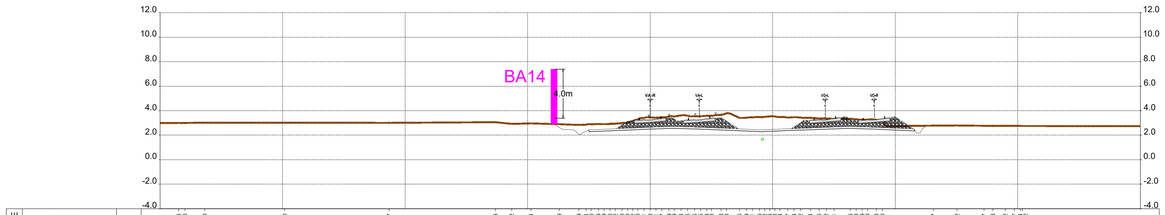
DESENHO 2

BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 14
Km 30+212 ao Km 30+705

FOLHA 26/45

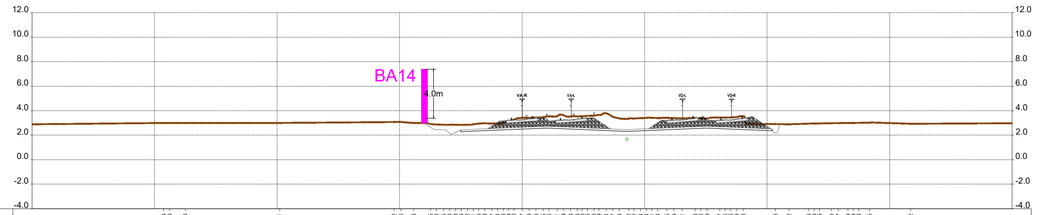
0 5 10m

Escala:
1:250



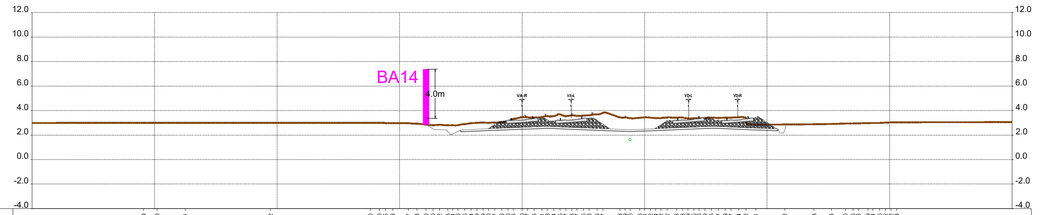
Pk 30+425.000
Km 30+431.411

P347



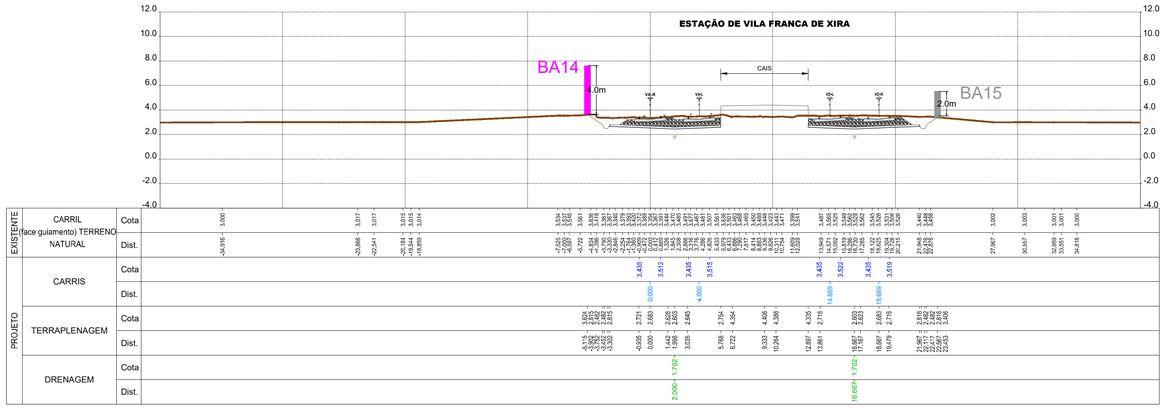
Pk 30+500.000
Km 30+507.408

P350



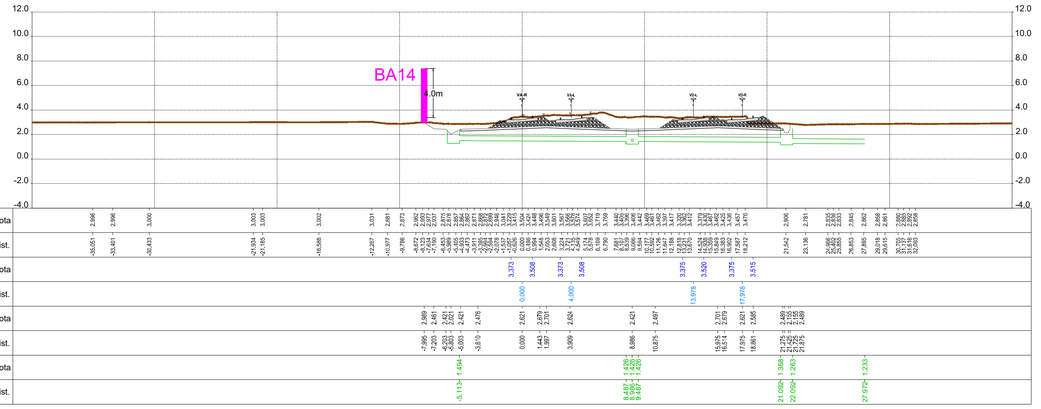
Pk 30+475.000
Km 30+481.363

P349



Pk 30+375.000
Km 30+381.404

P345



Pk 30+450.000
Km 30+456.389

P348

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

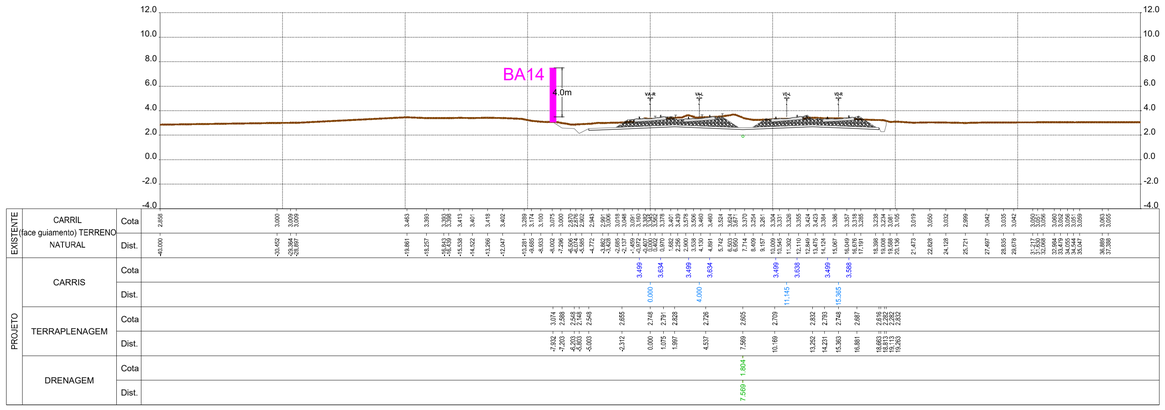
Projeto de Execução

DESENHO 2

BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 14
Km 30+212 ao Km 30+705

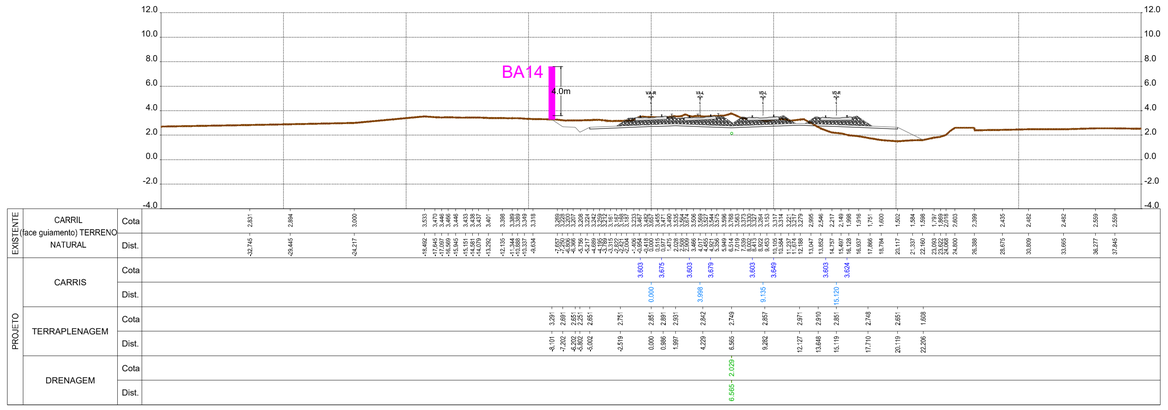
FOLHA 27/45

0 5 10m
Escala:
1:250



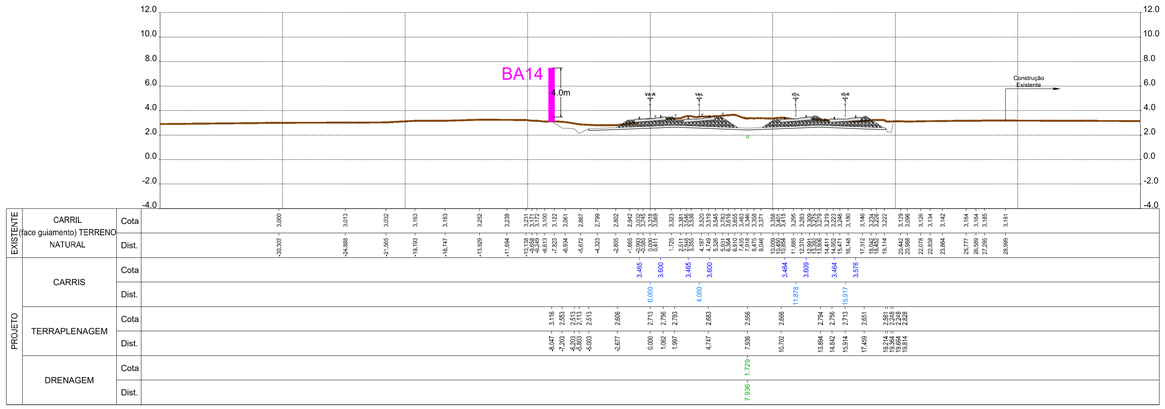
Pk 30+575.000
Km 30+582.303

P353



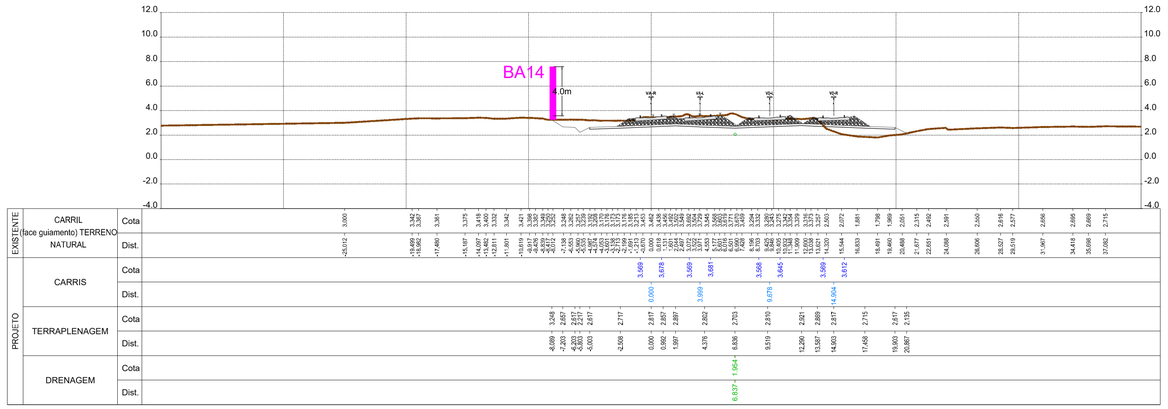
Pk 30+650.000
Km 30+657.476

P356



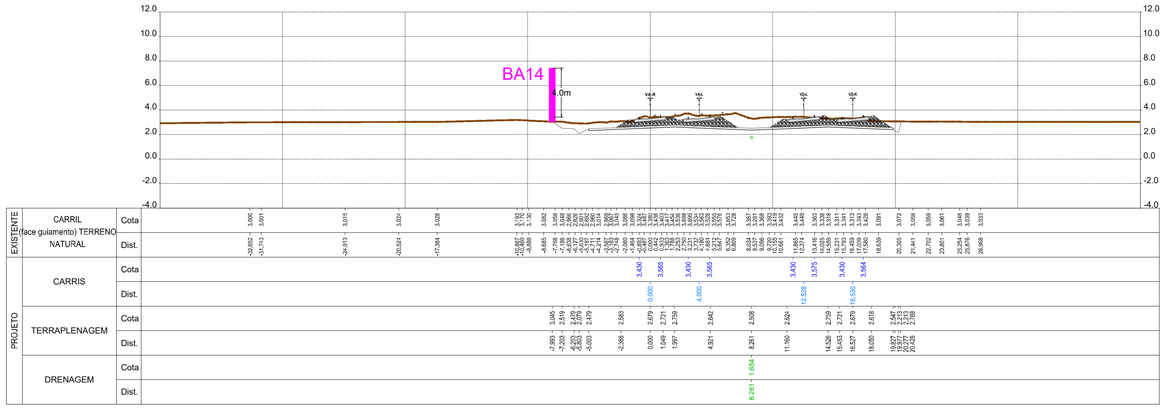
Pk 30+550.000
Km 30+557.334

P352



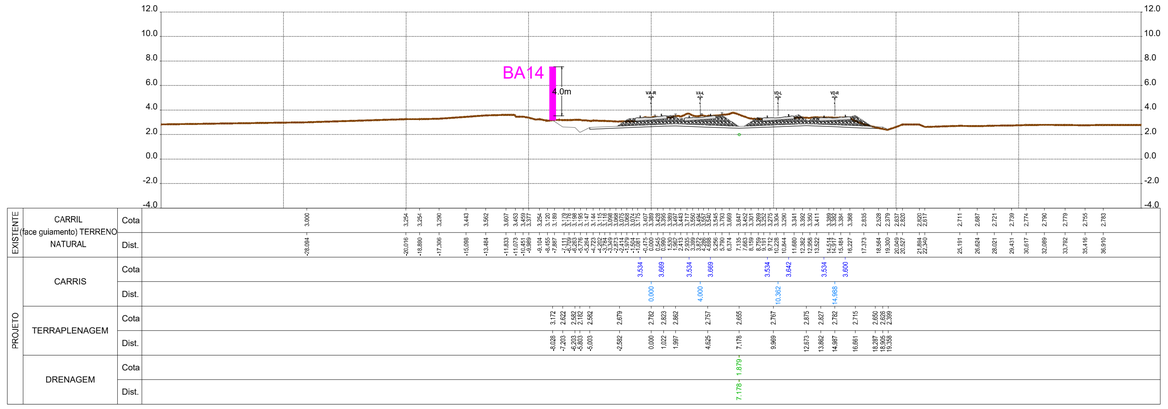
Pk 30+625.000
Km 30+632.492

P355



Pk 30+525.000
Km 30+532.370

P351



Pk 30+600.000
Km 30+607.517

P354

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

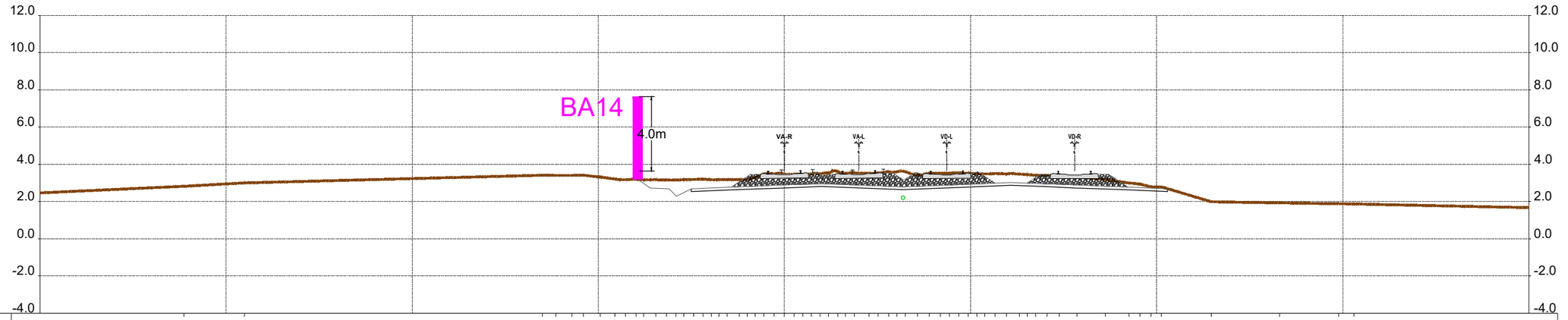
Projeto de Execução

DESENHO 2

BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 14
Km 30+212 ao Km 30+705

FOLHA 28/45

0 5 10m
Escala:
1:250



EXISTENTE	CARRIL (face guiamento) TERRENO NATURAL	Cota	2.820 3.000 3.413 3.405 3.404 3.417 3.319 3.209 3.167 3.193 3.166 3.174 3.158 3.158 3.171 3.193 3.209 3.173 3.174 3.182 3.184 3.168 3.168 3.483 3.481 3.469 3.470 3.476 3.478 3.482 3.532 3.614 3.517 3.556 3.514 3.551 3.608 3.559 3.594 3.410 3.524 3.518 3.512 3.592 3.527 3.488 3.485 3.507 3.479 3.476 3.447 3.410 3.425 3.394 3.306 3.189 2.996 2.939 2.787 2.792 1.986 1.926 1.882 1.869
		Dist.	-32.264 -29.007 -13.008 -12.296 -11.417 -10.814 -8.897 -8.121 -8.538 -7.964 -7.562 -6.907 -6.339 -5.824 -5.417 -4.986 -4.935 -3.520 -3.079 -2.420 -1.991 -1.570 -1.113 -0.561 0.000 0.519 0.980 1.452 1.997 2.365 2.873 3.280 3.763 4.547 5.031 5.606 6.044 6.465 7.150 7.790 8.383 8.857 9.360 9.886 10.332 10.773 11.326 11.926 12.629 13.048 13.501 14.117 14.776 15.729 17.239 18.503 19.103 19.707 20.249 22.941 26.609 29.764 30.597
PROJETO	CARRIS	Cota	3.638 3.671 3.638 3.678 3.637 3.653 3.640 3.638
		Dist.	0.000 3.995 8.719 15.586
	TERRAPLENAGEM	Cota	3.185 2.726 2.686 2.286 2.686 2.785 2.886 2.925 2.966 2.881 2.791 2.904 3.023 2.952 2.886 2.780 2.686 2.626 2.622
		Dist.	-7.890 -7.201 -6.201 -5.801 -5.001 -2.521 0.000 0.983 1.997 4.119 6.357 9.171 12.153 13.920 15.586 18.217 20.586 20.705 20.817
	DRENAGEM	Cota	2.104
		Dist.	6.357

Pk 30+675.000
Km 30+682.468

P357

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

DESENHO 2

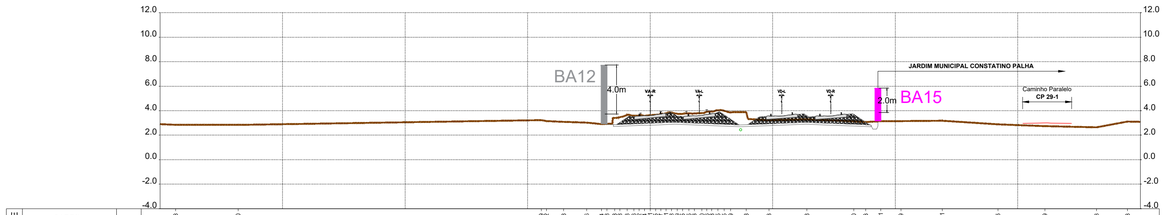
BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 14

Km 30+212 ao Km 30+705

FOLHA 29/45

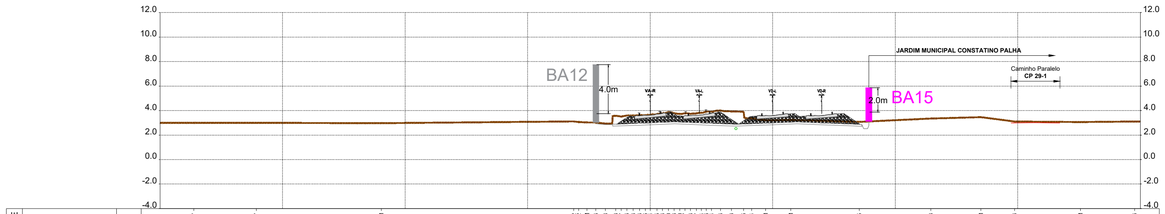
0 5 10m

Escala:
1:250



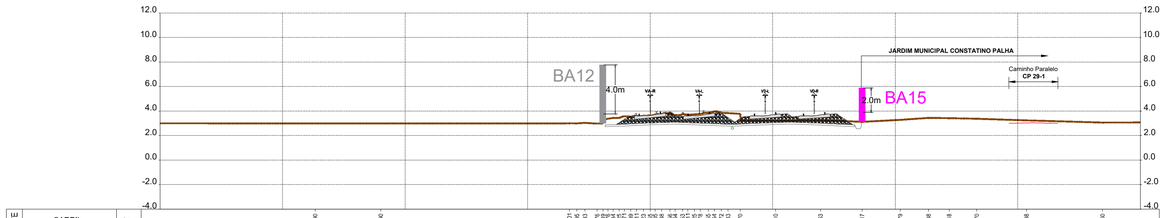
Pk 30+050.000
Km 30+056.564

P332



Pk 30+025.000
Km 30+031.562

P331

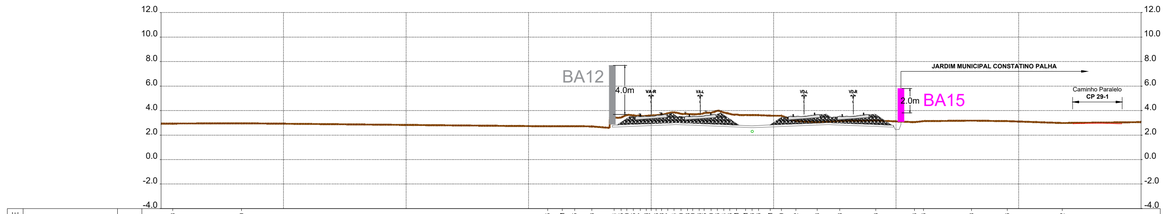


Pk 30+000.000
Km 30+006.557

P330

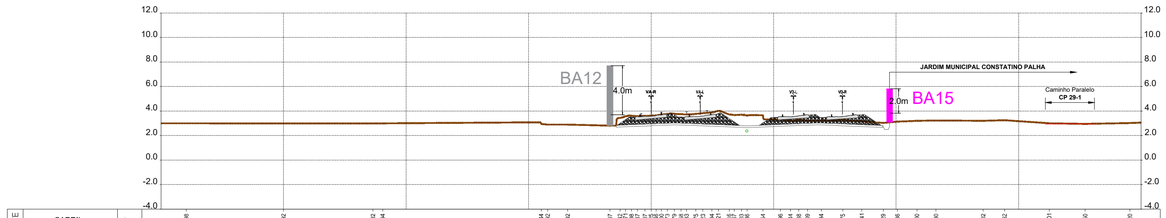
Pk 30+125.000
Km 30+129.030

P335



Pk 30+100.000
Km 30+104.027

P334



Pk 30+075.000
Km 30+081.562

P333

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

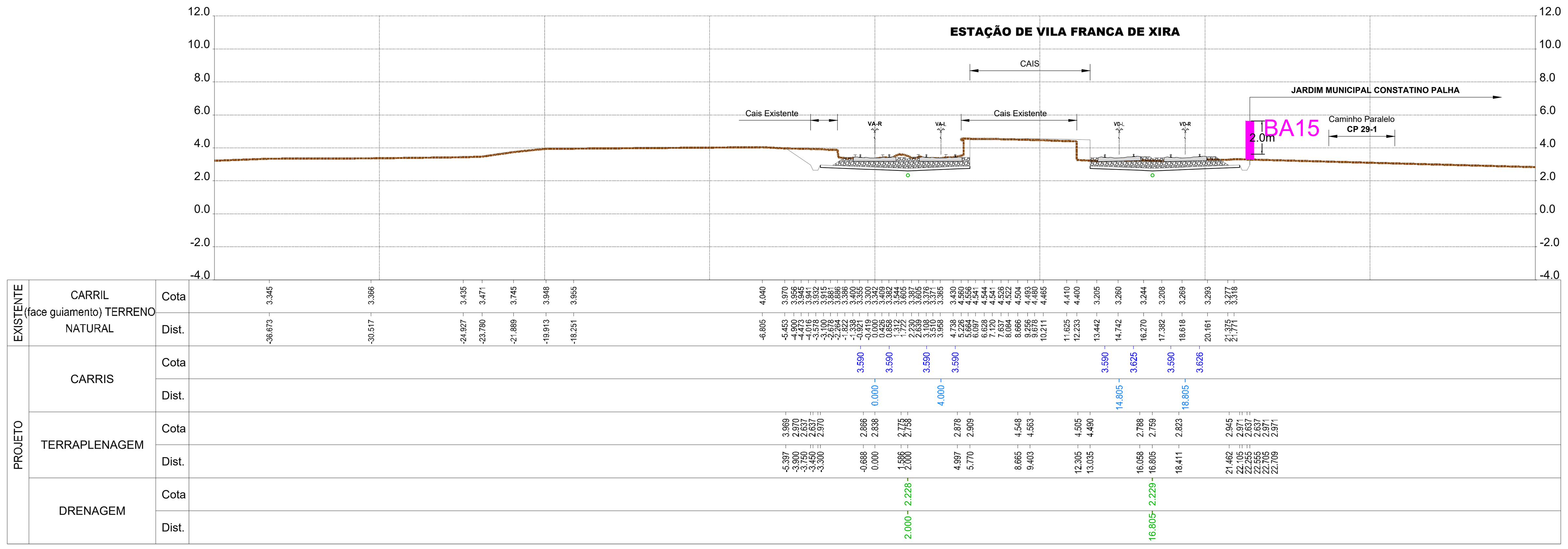
Projeto de Execução

DESENHO 2

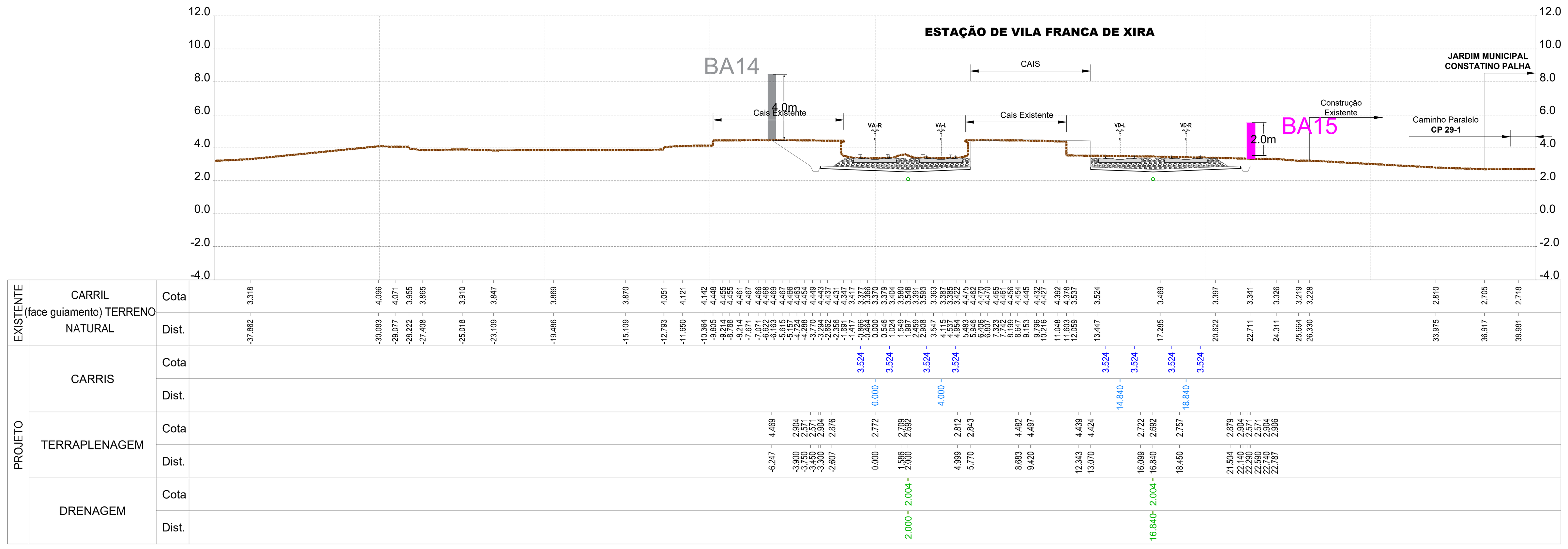
BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 15
Km 29+985 ao Km 30+414

FOLHA 30/45

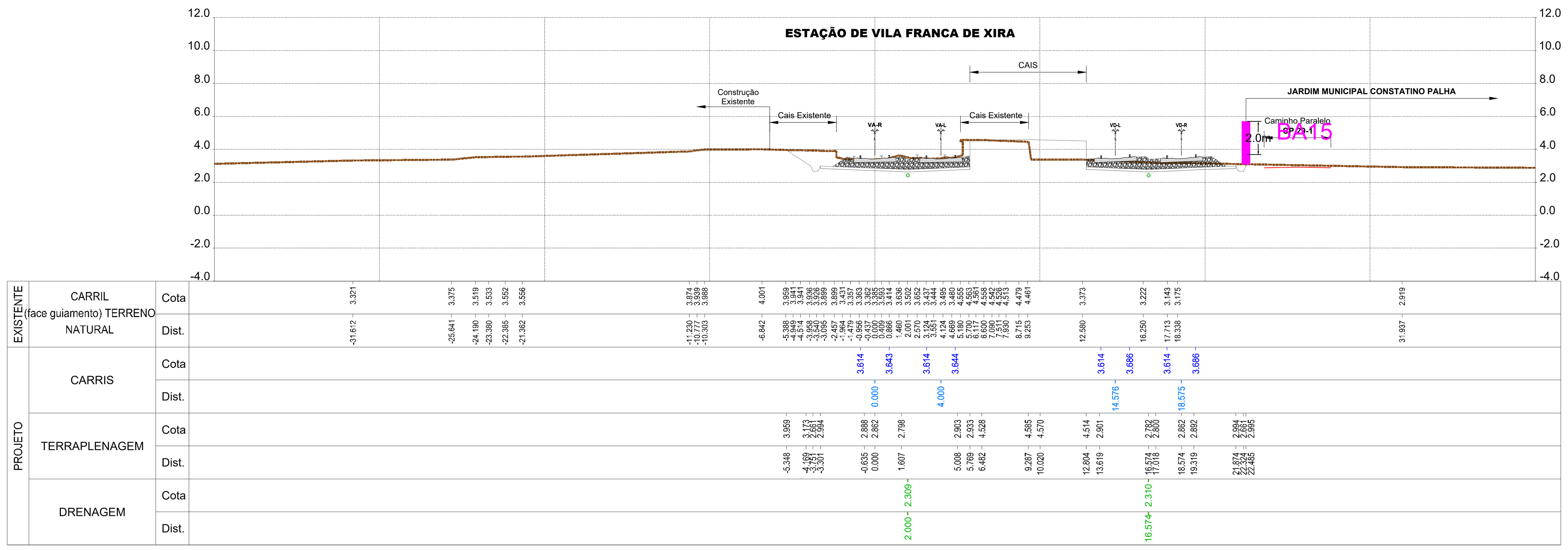
0 5 10m
Escala:
1:250



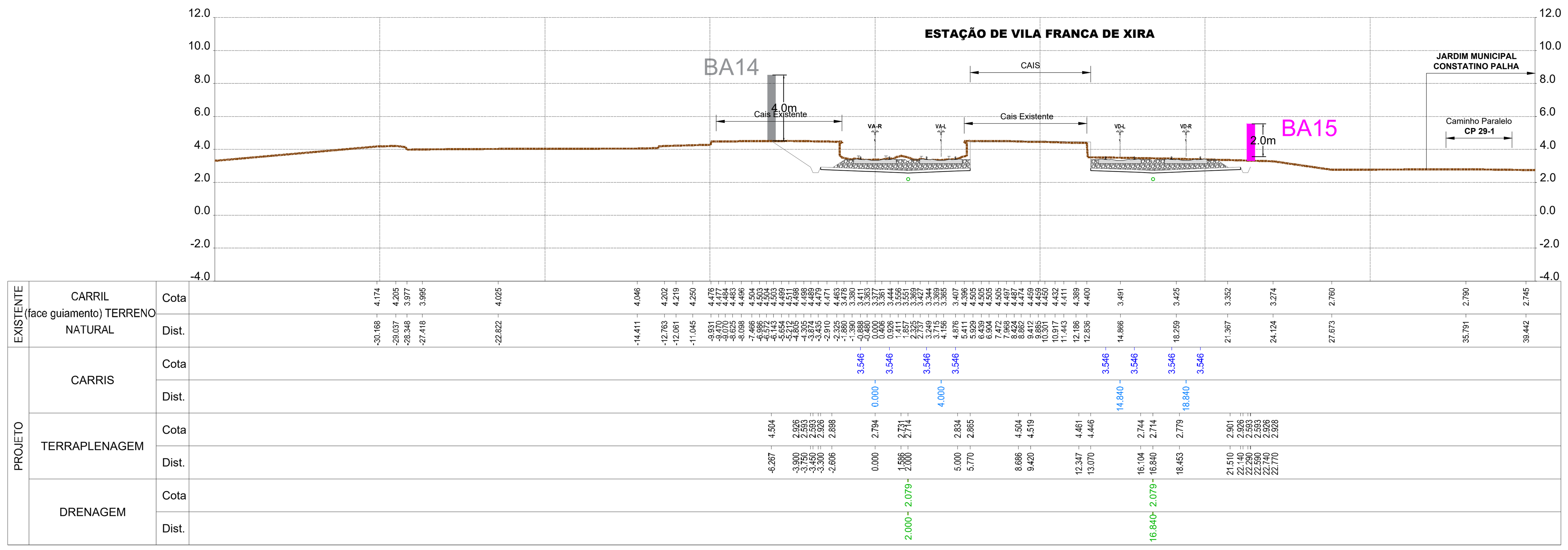
Pk 30+200.000
Km 30+206.040
P338



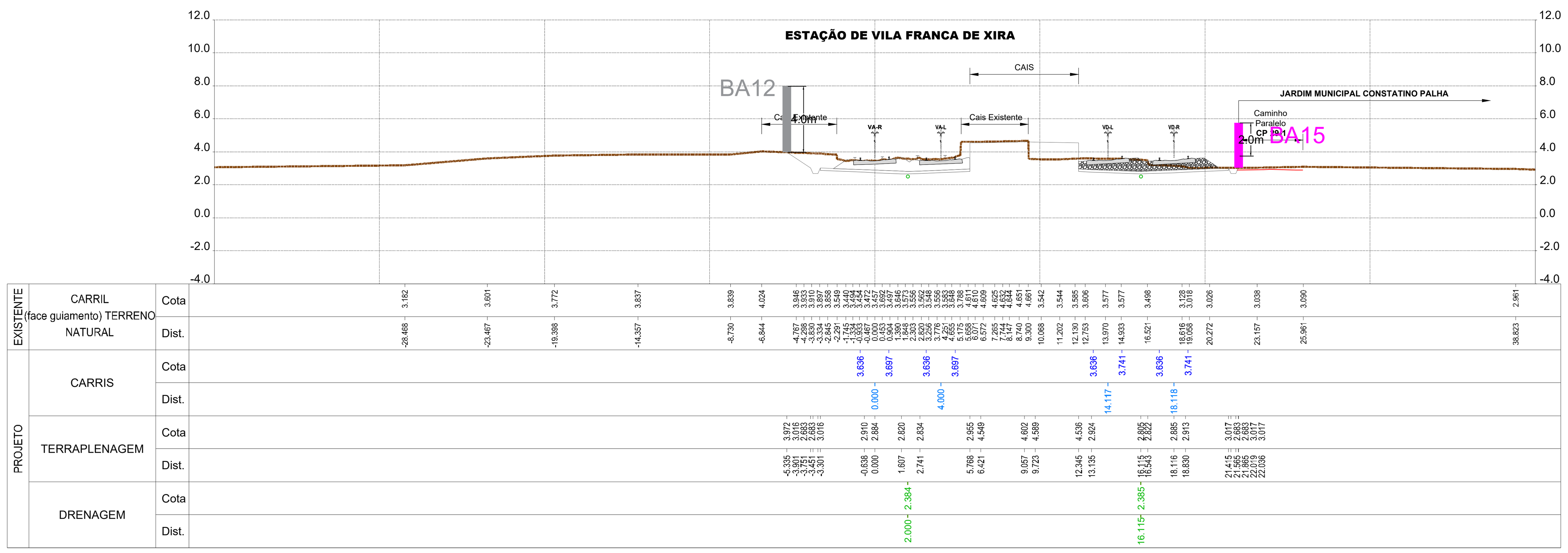
Pk 30+275.000
Km 30+281.041
P341



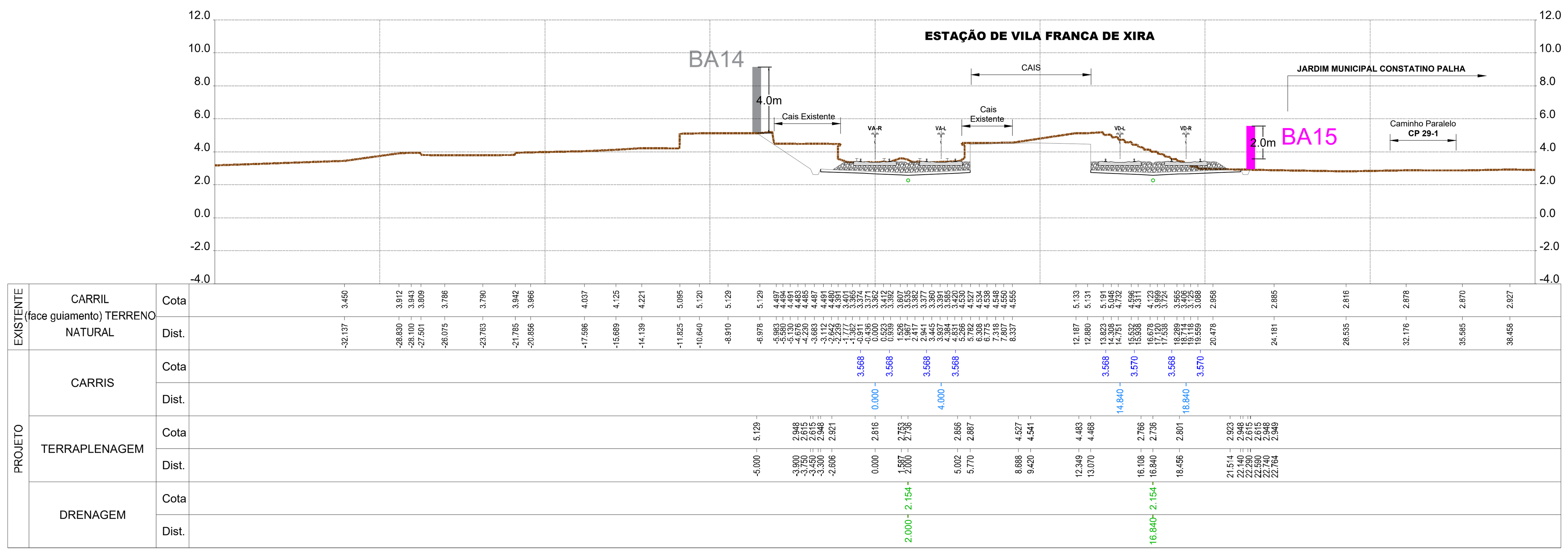
Pk 30+175.000
Km 30+179.034
P337



Pk 30+250.000
Km 30+256.040
P340



Pk 30+150.000
Km 30+154.031
P336



Pk 30+225.000
Km 30+231.040
P339

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

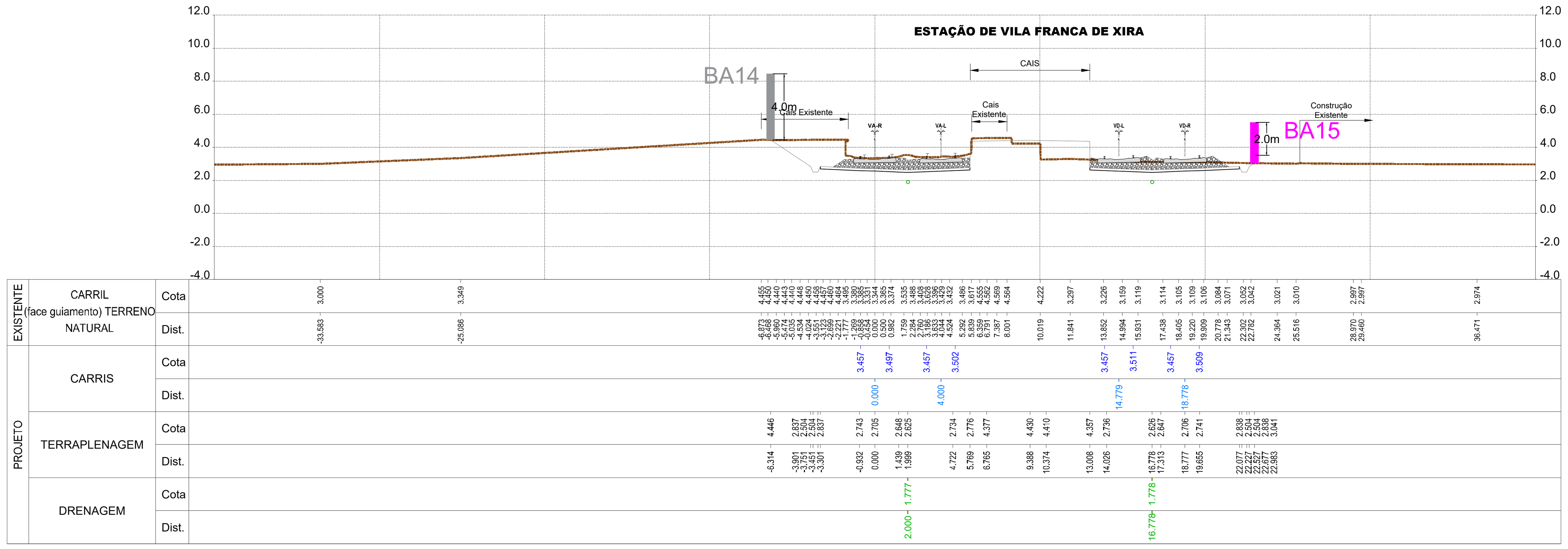
DESENHO 2

BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 15

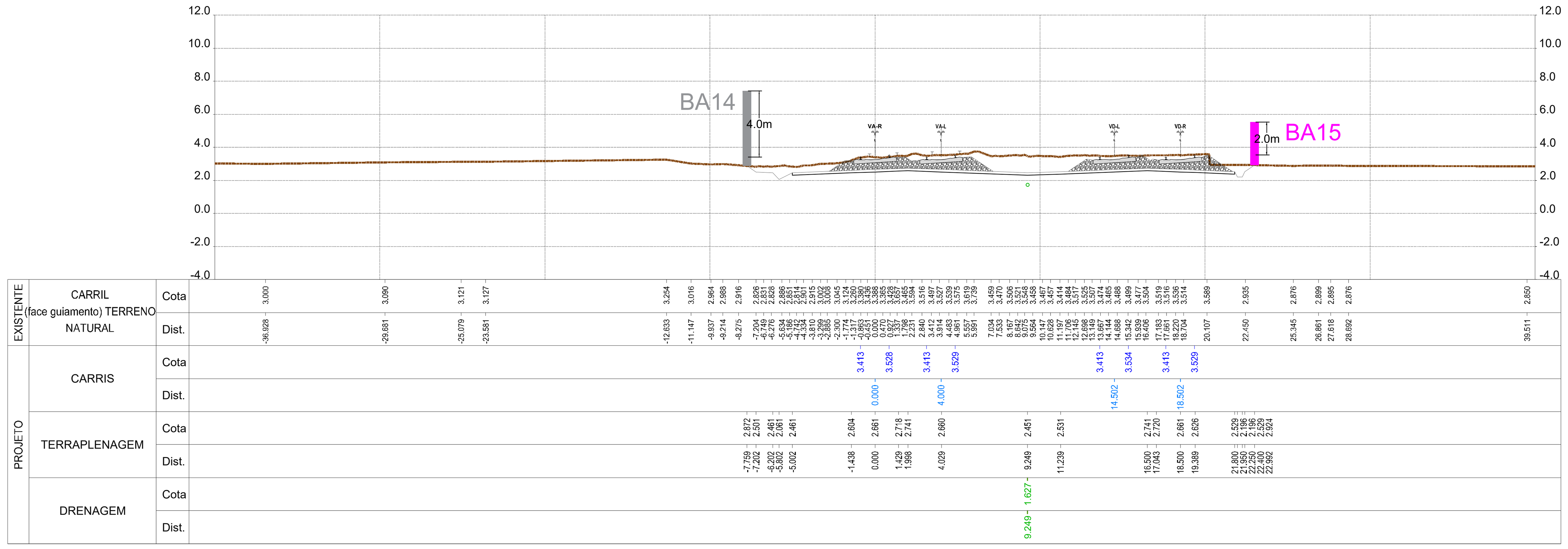
Km 29+985 ao Km 30+414

FOLHA 31/45

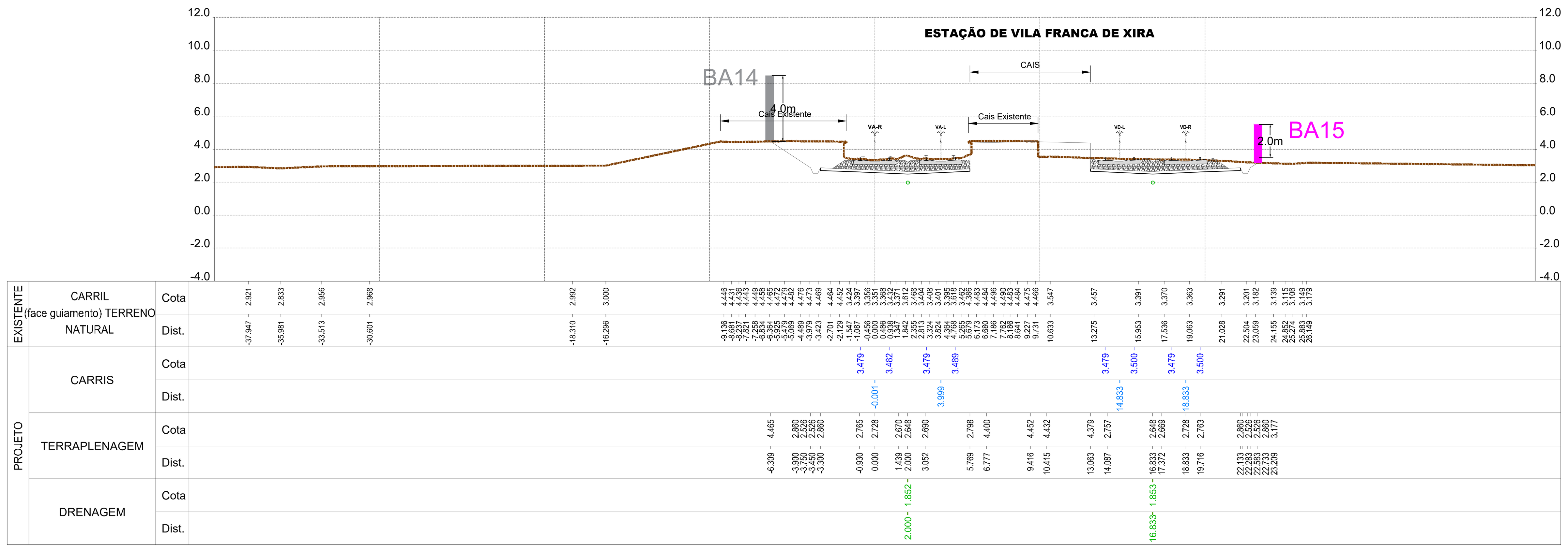
Escala:
1:250



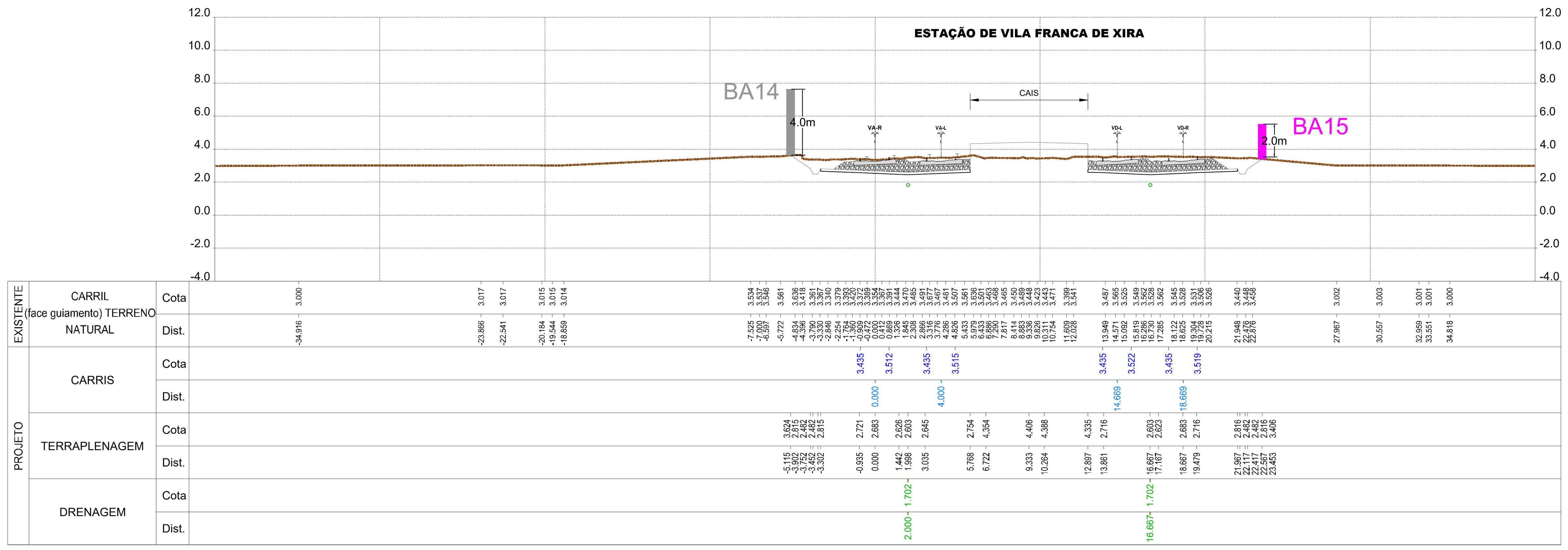
Pk 30+350.000
Km 30+356.405
P344



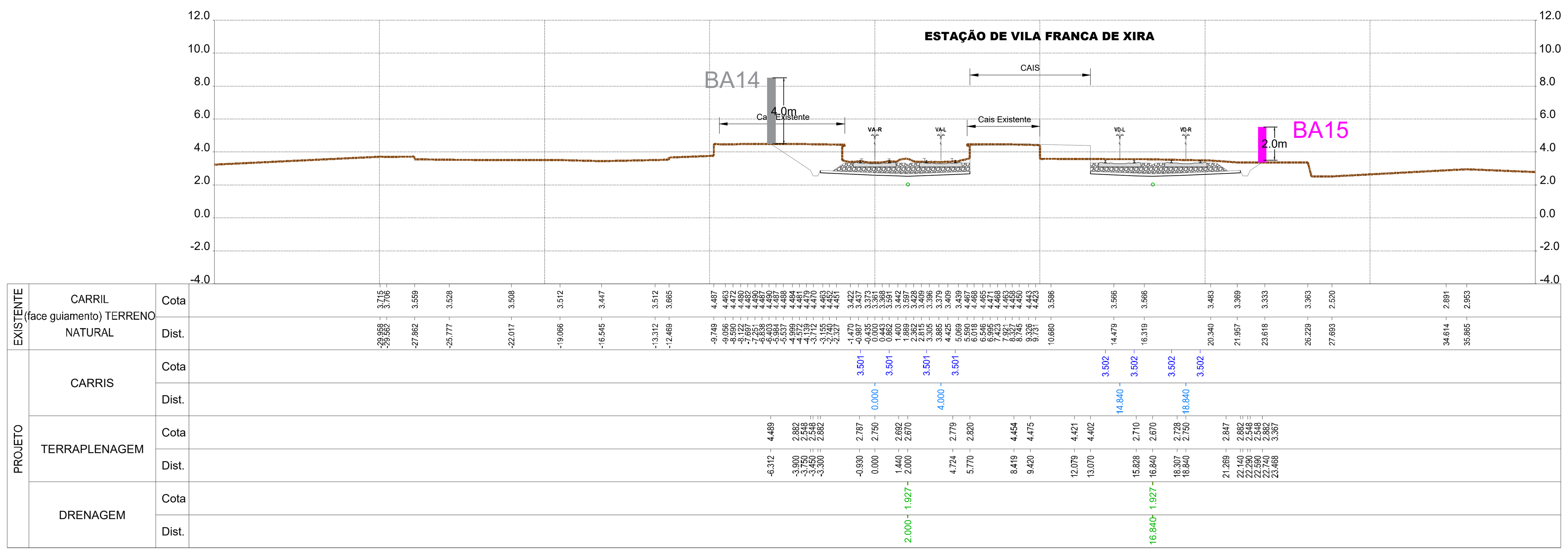
Pk 30+400.000
Km 30+406.426
P346



Pk 30+325.000
Km 30+331.406
P343



Pk 30+375.000
Km 30+381.404
P345



Pk 30+300.000
Km 30+306.406
P342

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

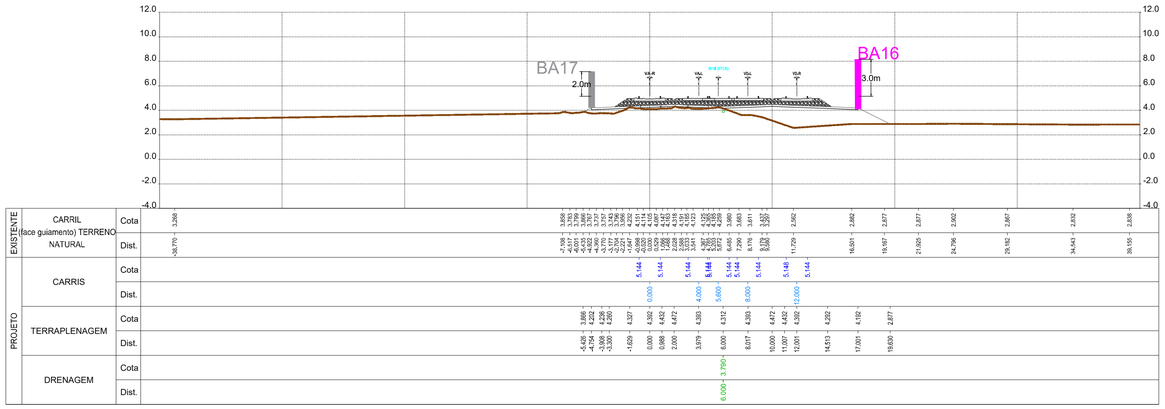
DESENHO 2

BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 15

Km 29+985 ao Km 30+414

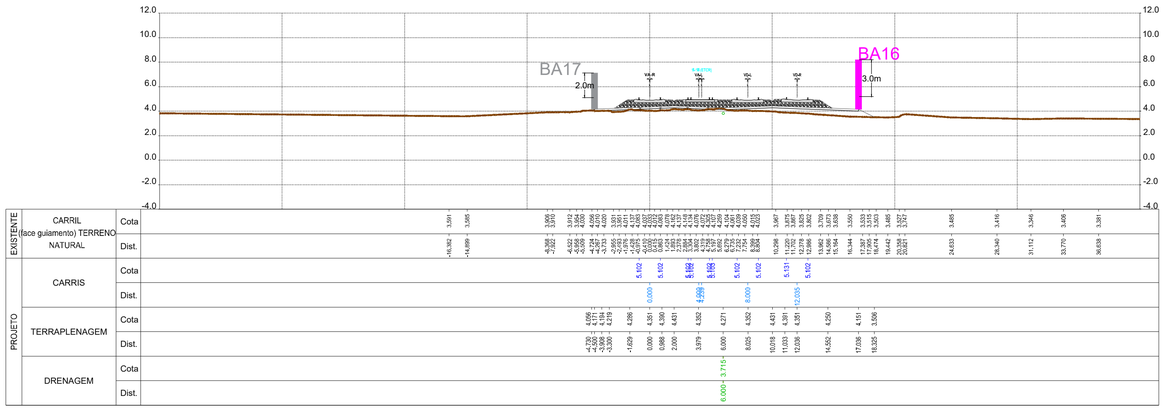
FOLHA 32/45

0 5 10m
Escala:
1:250



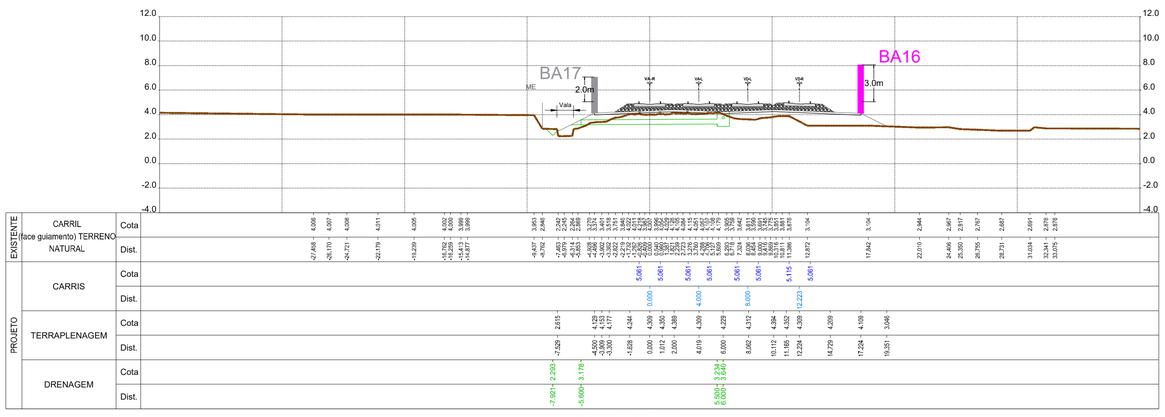
Pk 31+275.000
Km 31+282.531

P381



Pk 31+250.000
Km 31+257.530

P380



Pk 31+225.000
Km 31+232.530

P379

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

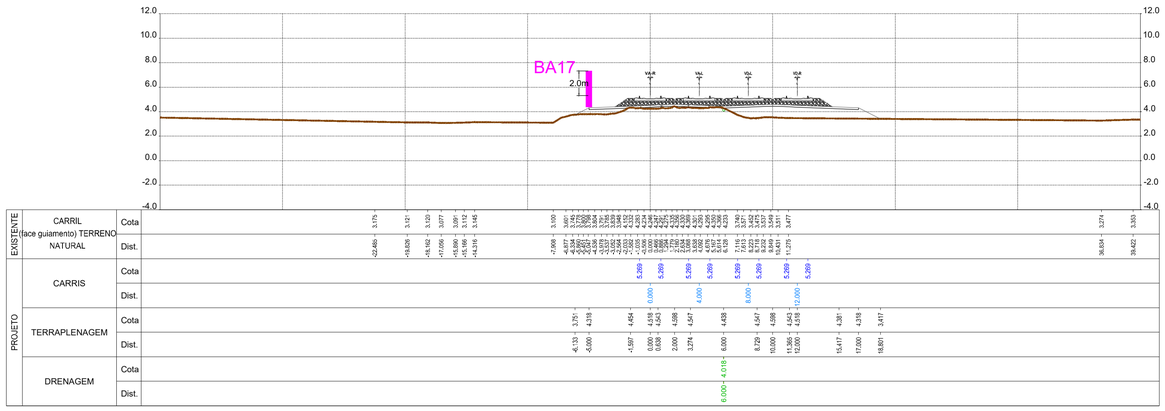
LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

DESENHO 2

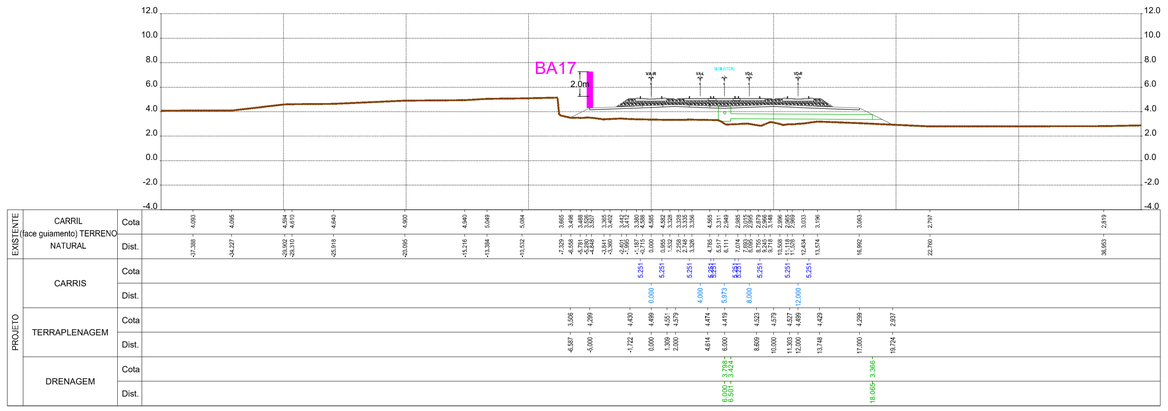
BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 16
Km 31+213 ao Km 31+295
FOLHA 33/45

0 5 10m
Escala:
1:250



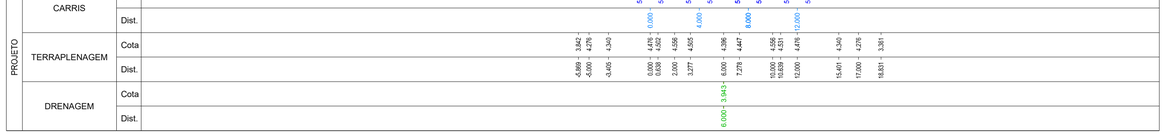
Pk 31+350.000
Km 31+358.404

P384



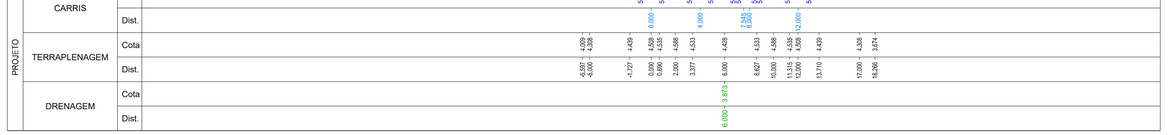
Pk 31+425.000
Km 31+431.725

P387



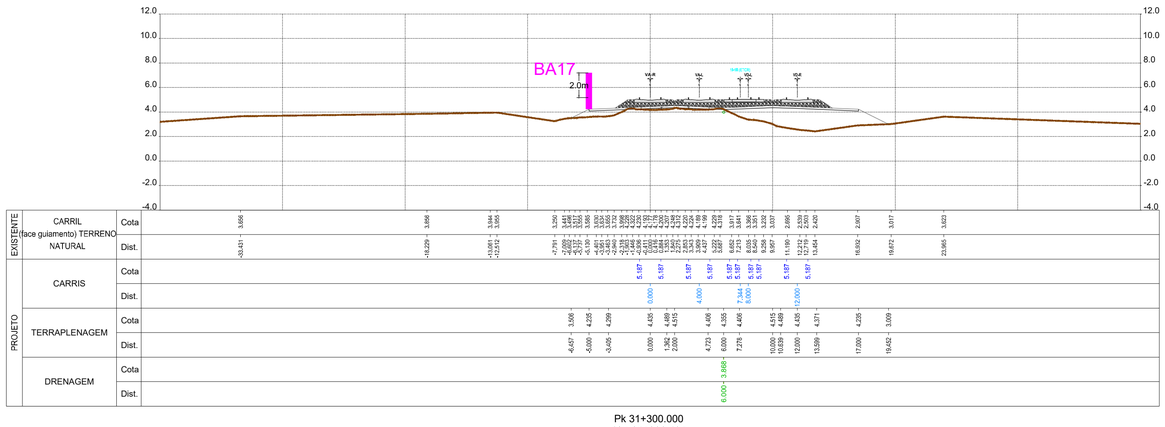
Pk 31+325.000
Km 31+333.405

P383



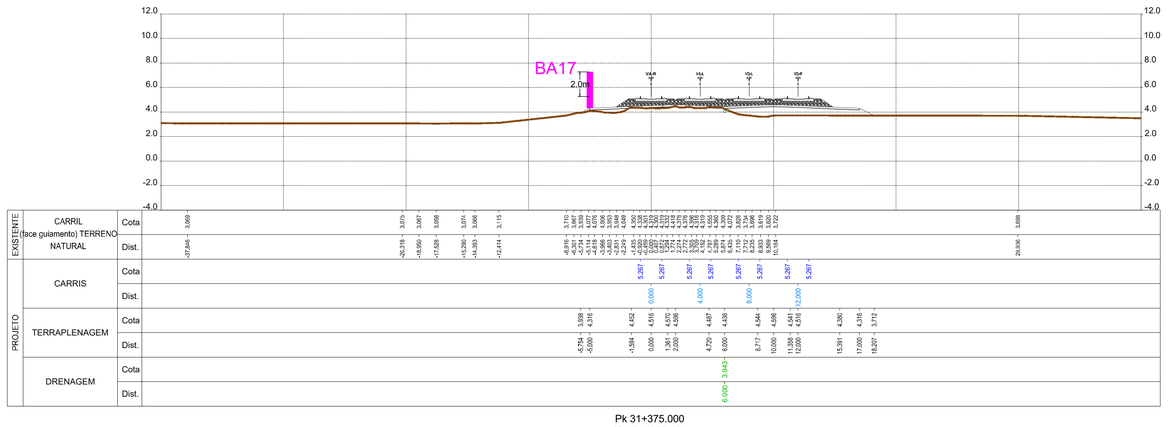
Pk 31+400.000
Km 31+406.725

P386



Pk 31+300.000
Km 31+308.405

P382



Pk 31+375.000
Km 31+383.405

P385

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

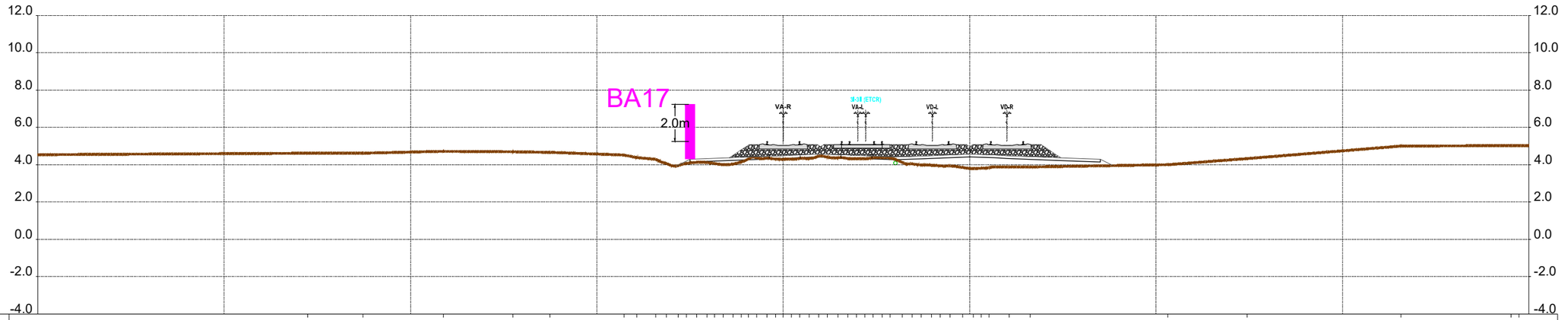
Projeto de Execução

DESENHO 2

BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 17
Km 31+230 ao Km 31+468

FOLHA 34/45

0 5 10m
Escala:
1:250



EXISTENTE	CARRIL (face guiamento) TERRENO NATURAL	Cota	4.617 4.618 4.718 4.693 4.663 4.518 4.379 4.292 4.071 4.069 3.947 4.127 4.108 4.084 4.041 4.031 4.145 4.315 4.386 4.456 4.288 4.296 4.349 4.435 4.465 4.403 4.374 4.329 4.326 4.325 4.382 4.381 4.124 4.044 3.991 3.967 3.942 3.937 3.850 3.801 3.810 3.841 3.879 3.879 4.000 4.327 5.000 5.024 5.026
		Dist.	-25.515 -22.550 -18.243 -14.505 -12.513 -8.532 -7.866 -6.843 -6.278 -5.631 -5.192 -4.646 -4.099 -3.691 -3.231 -2.688 -2.264 -1.863 -1.430 -0.969 -0.411 0.000 0.426 0.860 1.308 1.888 2.367 2.928 3.468 3.919 4.372 4.825 5.308 5.735 6.378 6.904 7.409 7.958 8.422 8.949 9.626 10.185 10.618 11.034 12.115 13.245 20.624 24.879 33.148 39.049 39.460
PROJETO	CARRIS	Cota	5.242 5.242 5.242 5.242 5.242 5.242 5.242 5.242 5.242 5.242
		Dist.	0.000 0.000 4.000 4.425 8.000 12.000
	TERRAPLENAGEM	Cota	3.928 4.290 4.421 4.490 4.543 4.570 4.515 4.410 4.466 4.570 4.518 4.490 4.360 4.290 3.952
		Dist.	-5.722 -5.000 -1.723 0.000 1.309 2.000 3.383 6.000 7.386 10.000 11.305 12.000 15.258 17.000 17.677
	DRENAGEM	Cota	3.990
		Dist.	6.000

Pk 31+450.000
Km 31+456.725

P388

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

DESENHO 2

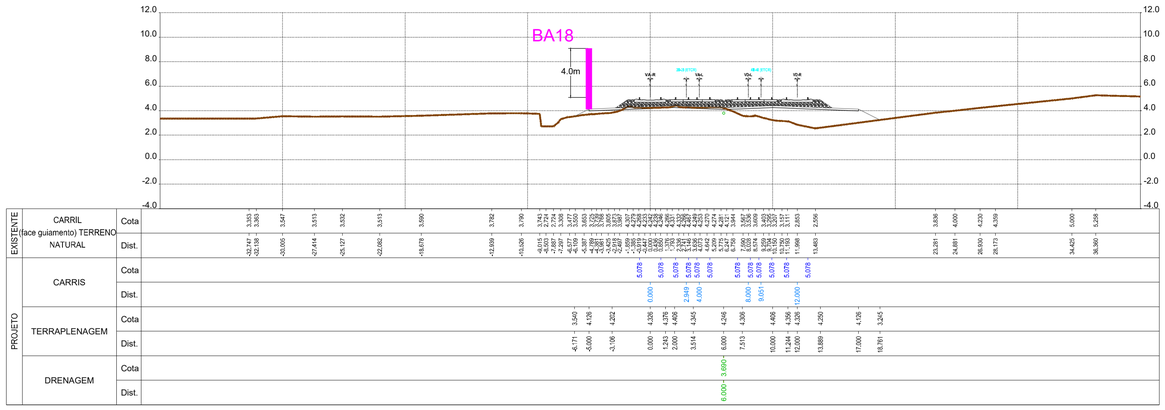
BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 17

Km 31+230 ao Km 31+468

FOLHA 35/45

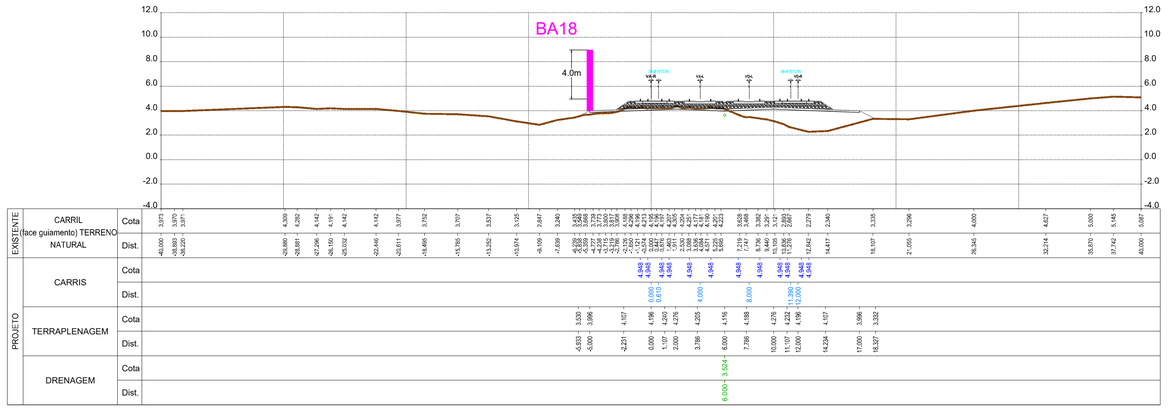
0 5 10m

Escala:
1:250



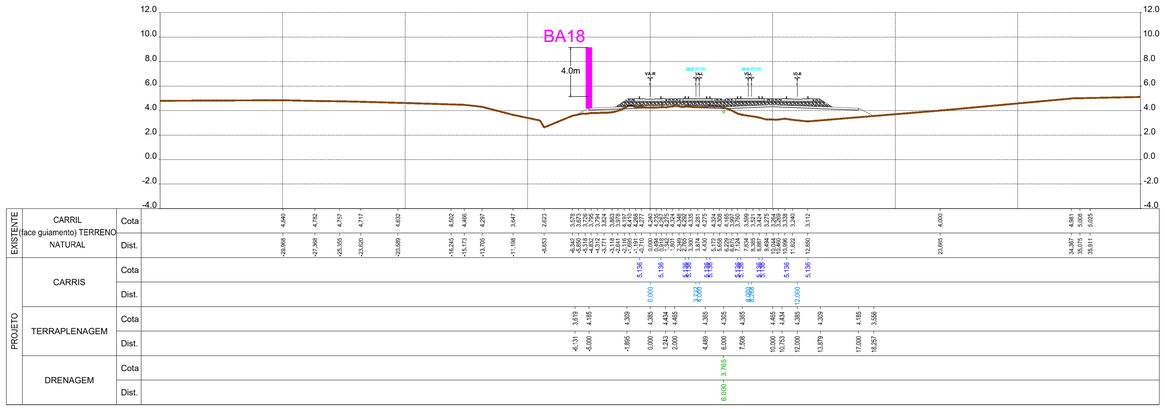
Pk 31+550.000
Km 31+556.893

P392



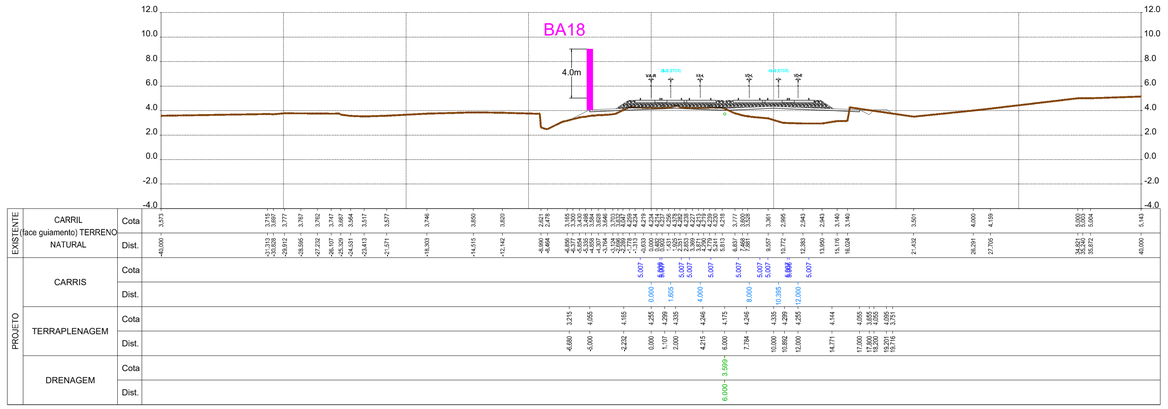
Pk 31+625.000
Km 31+612.232

P395



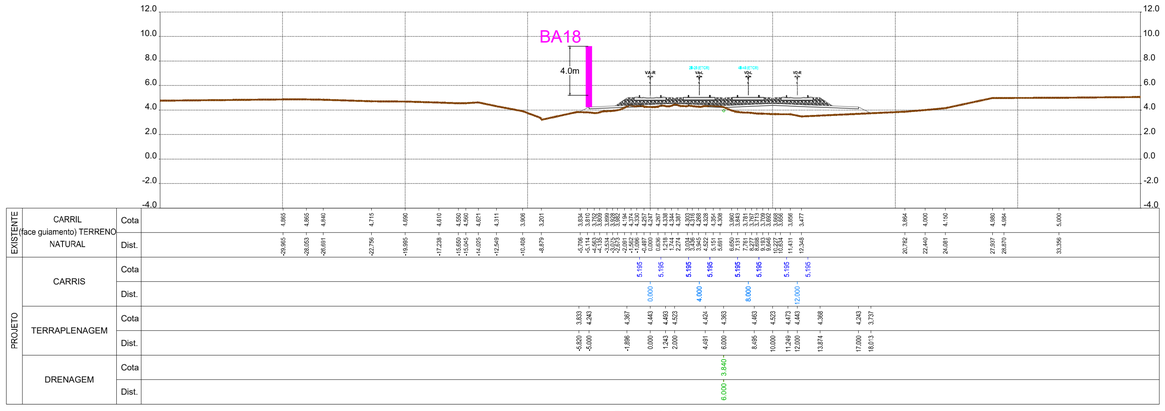
Pk 31+525.000
Km 31+531.893

P391



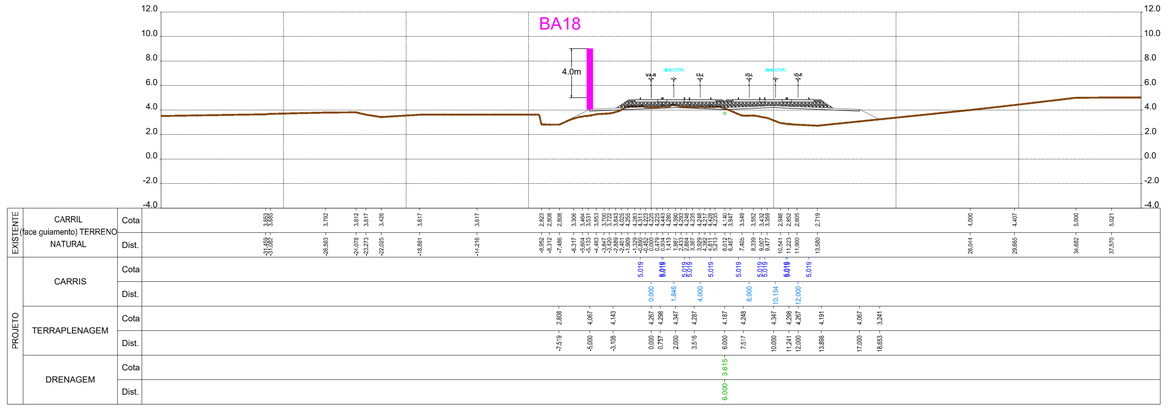
Pk 31+600.000
Km 31+587.232

P394



Pk 31+500.000
Km 31+506.893

P390



Pk 31+575.000
Km 31+581.893

P393

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

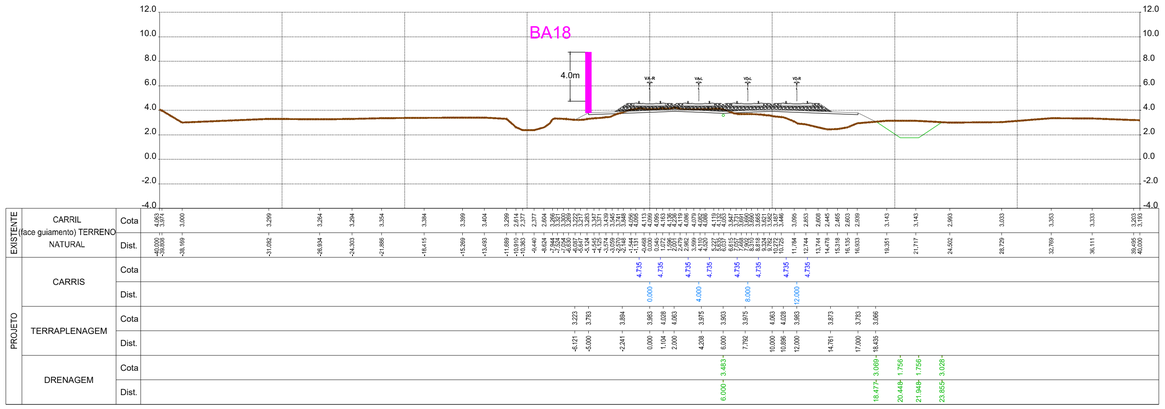
Projeto de Execução

DESENHO 2

BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 18
Km 31+491 ao Km 31+729

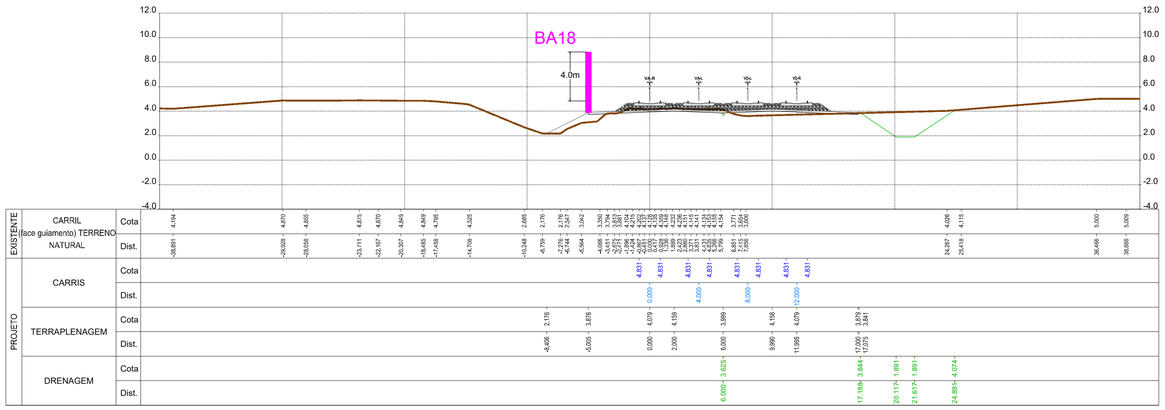
FOLHA 36/45

0 5 10m
Escala:
1:250



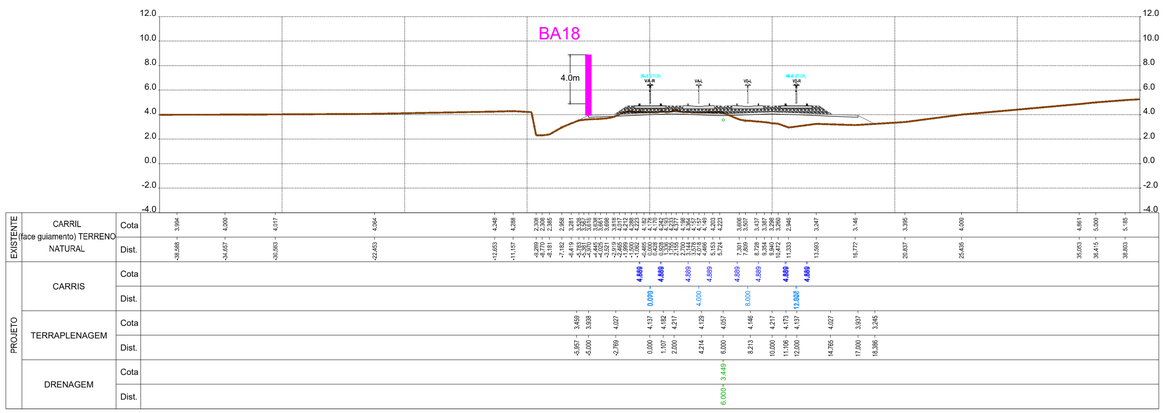
Pk 31+700.000
Km 31+707.241

P398



Pk 31+675.000
Km 31+662.232

P397



Pk 31+650.000
Km 31+637.232

P396

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

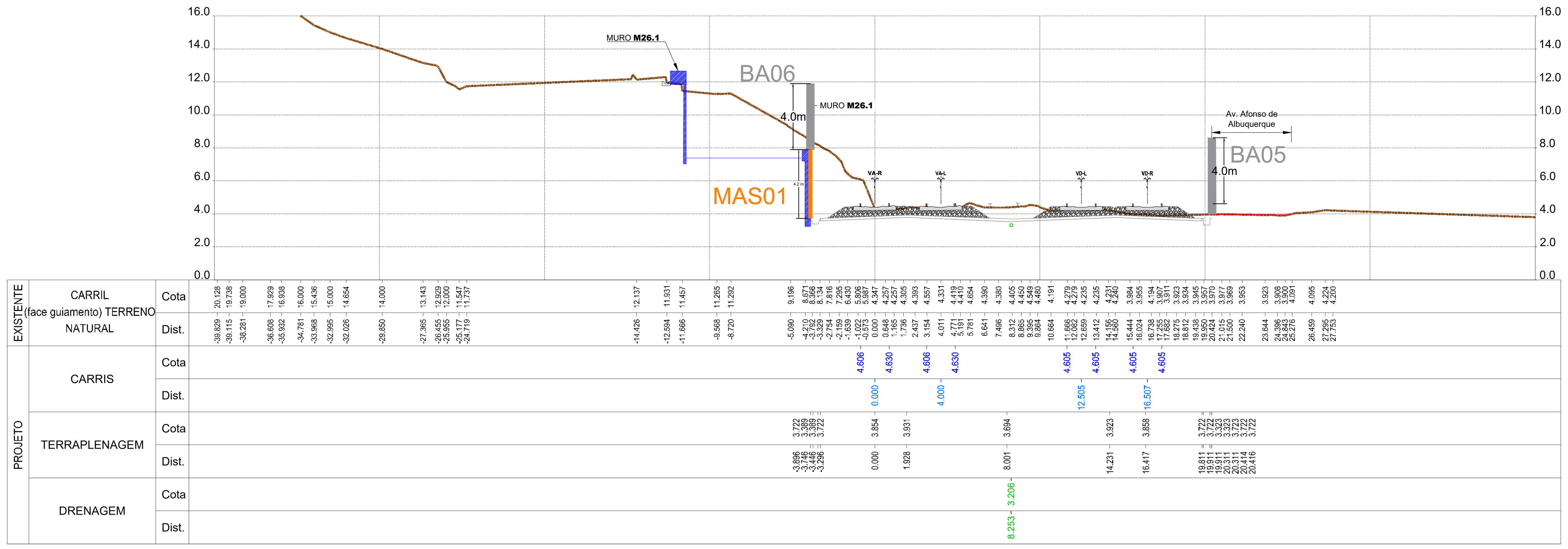
LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

DESENHO 2

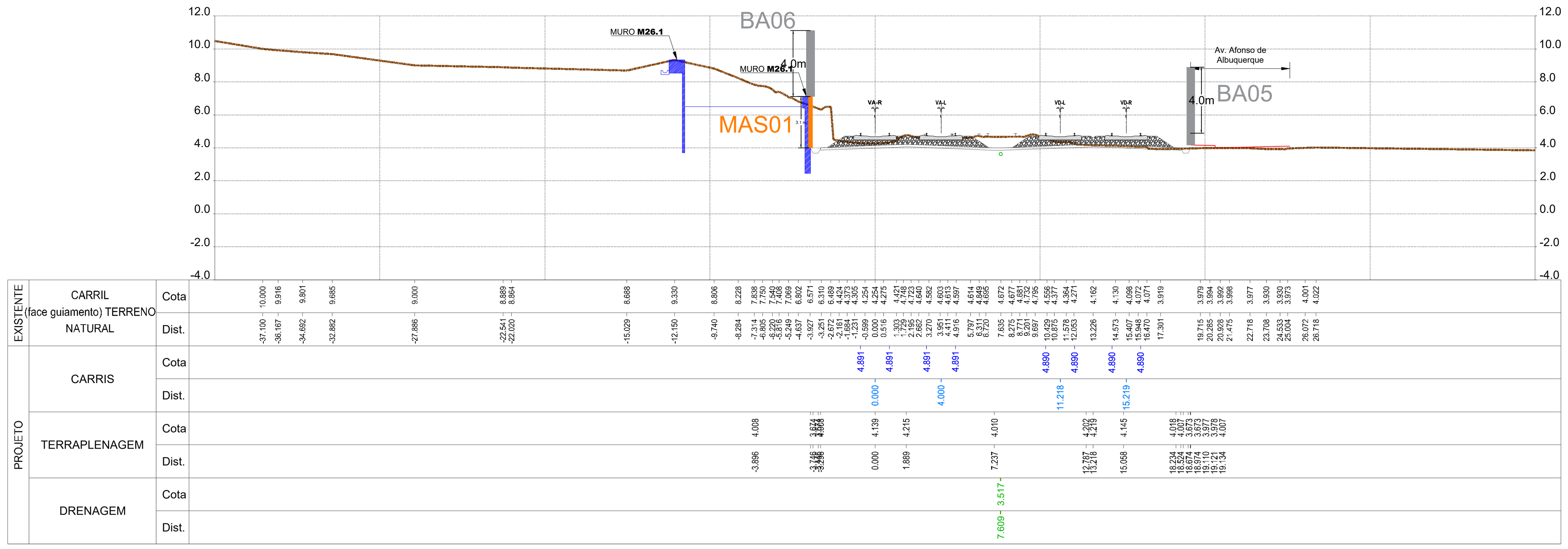
BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BARREIRA 18
Km 31+491 ao Km 31+729
FOLHA 37/45

0 5 10m
Escala:
1:250



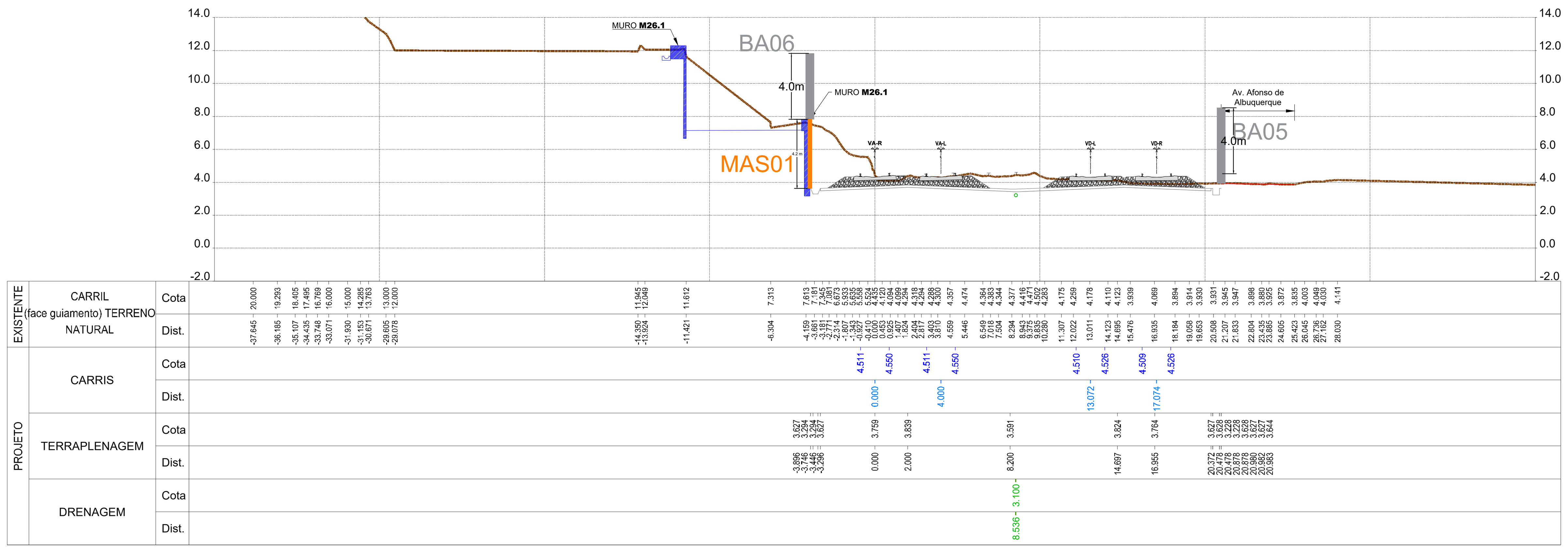
Pk 26+150.000
Km 26+139.825

P176



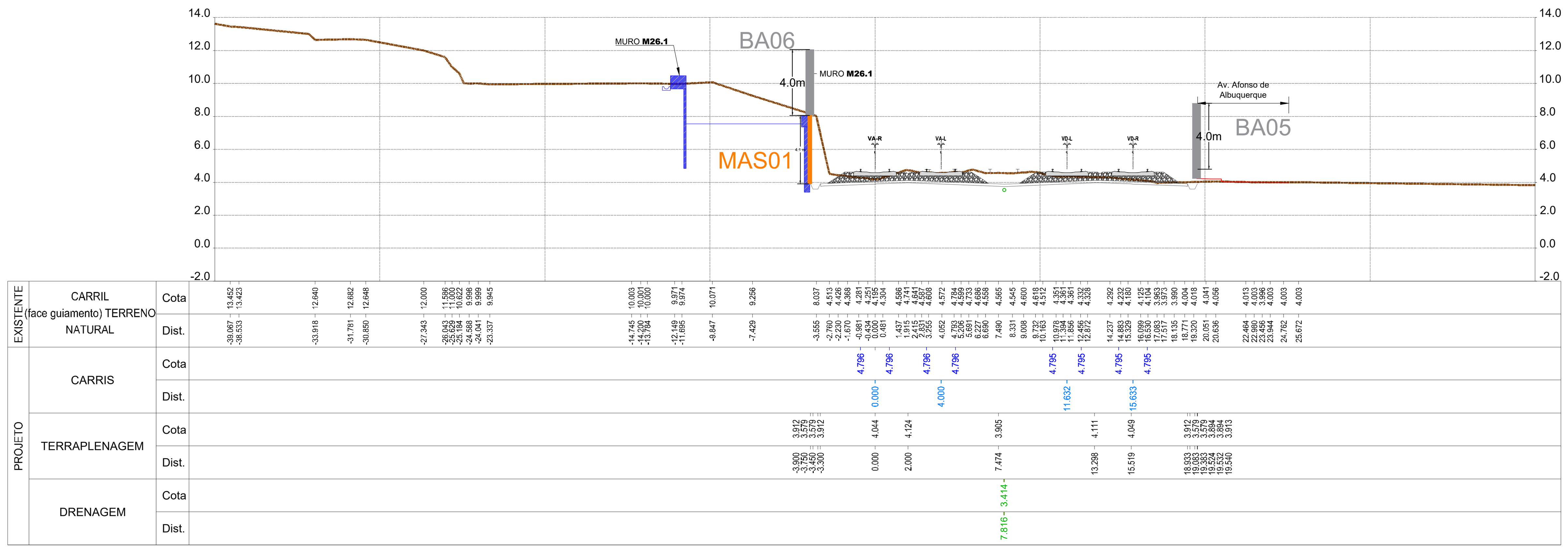
Pk 26+225.000
Km 26+214.740

P179



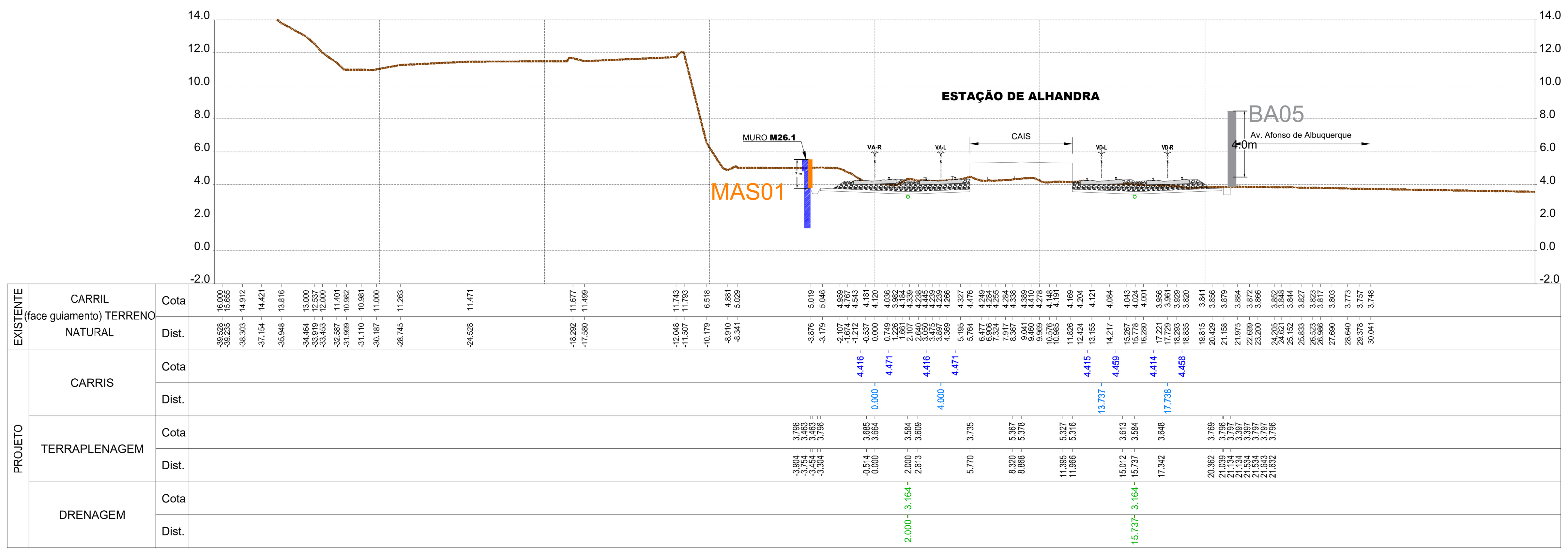
Pk 26+125.000
Km 26+114.851

P175



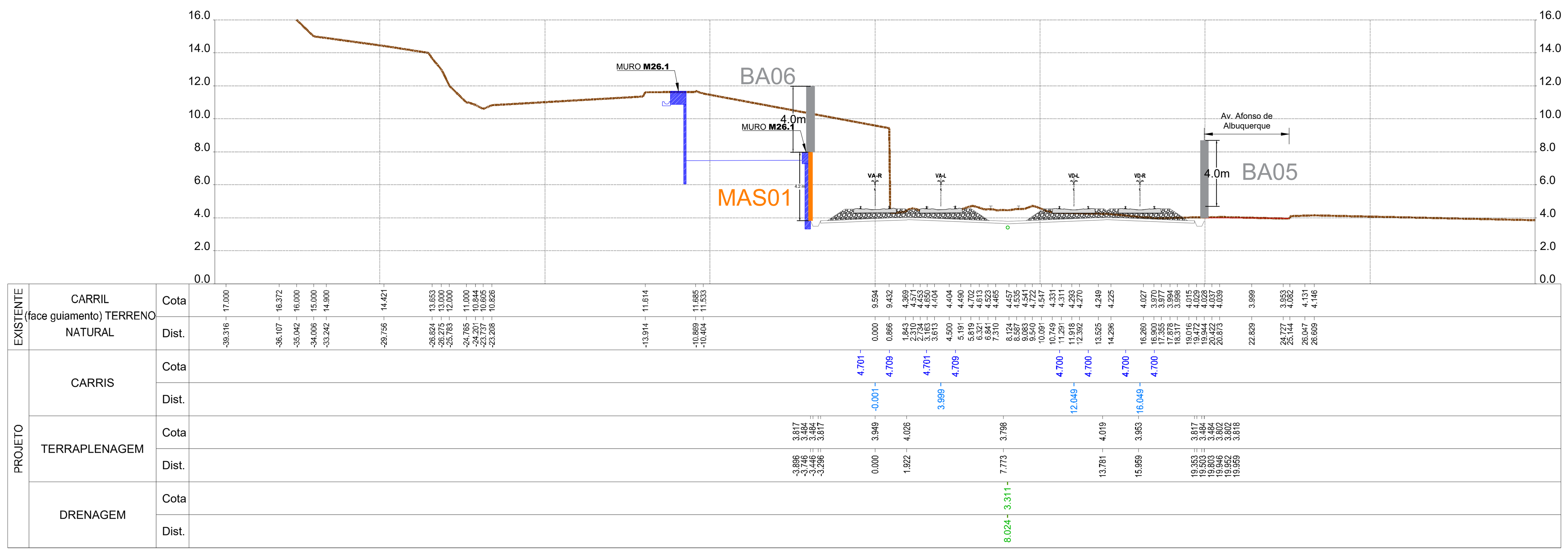
Pk 26+200.000
Km 26+189.700

P178



Pk 26+100.000
Km 26+089.881

P174



Pk 26+175.000
Km 26+164.810

P177

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

DESENHO 2

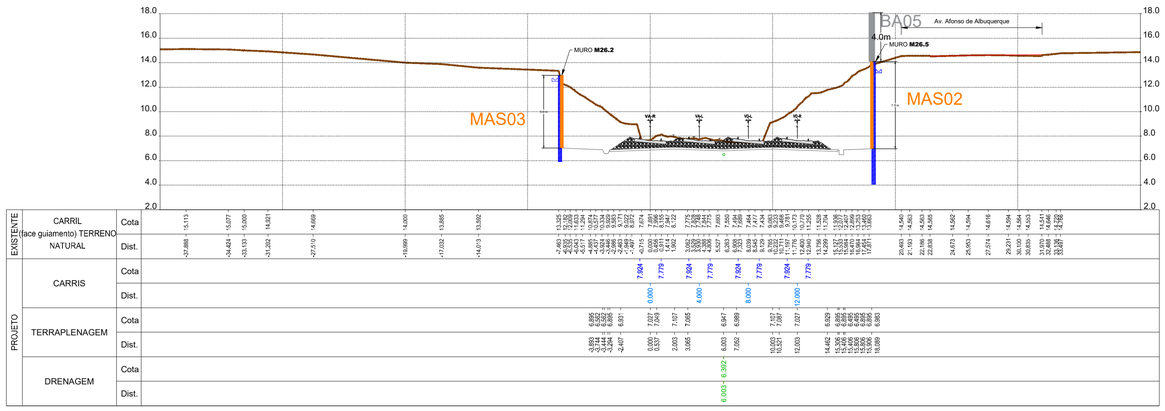
BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
MAS01 - Material Absorvente Sonoro

Km 26+065 ao Km 26+960

FOLHA 38/45

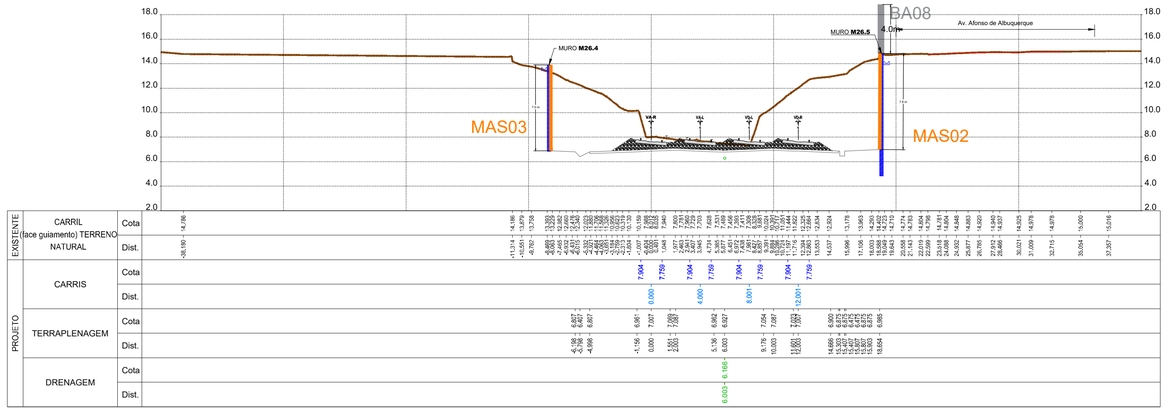
0 5 10m

Escala:
1:250



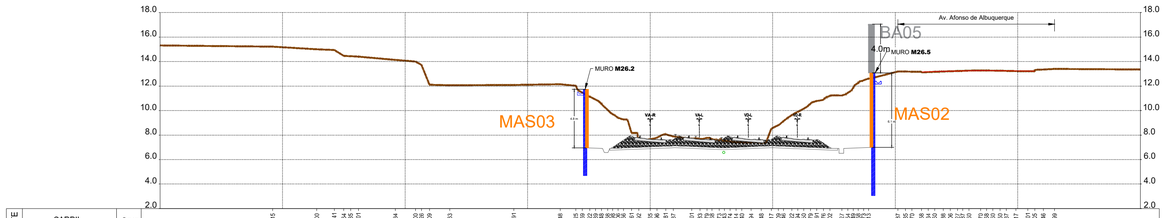
Pk 26+700.000
Km 26+703.664

P198



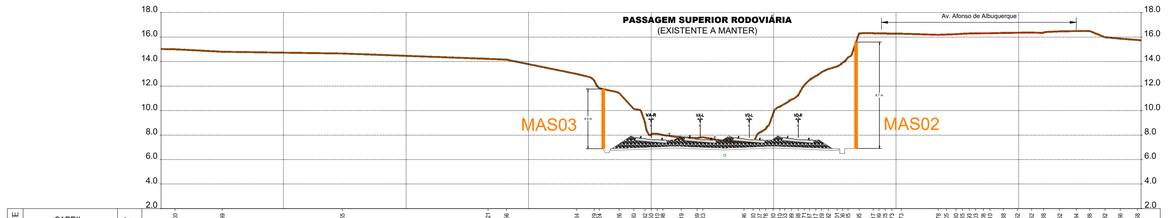
Pk 26+775.000
Km 26+778.851

P201



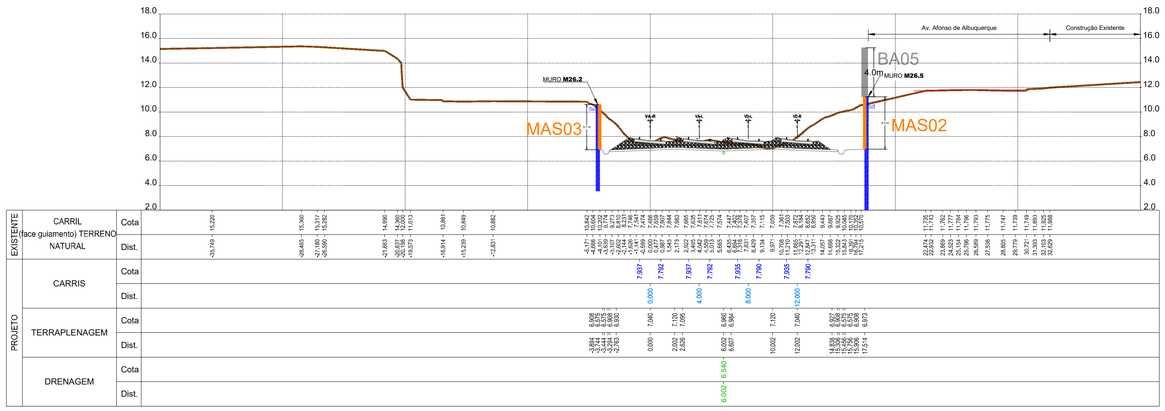
Pk 26+675.000
Km 26+679.296

P197



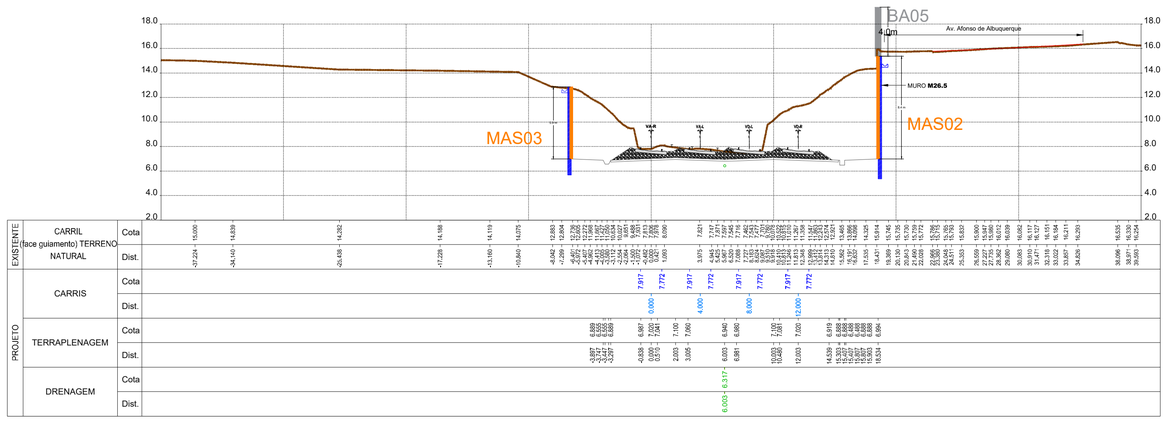
Pk 26+750.000
Km 26+753.792

P200



Pk 26+650.000
Km 26+654.208

P196



Pk 26+725.000
Km 26+728.729

P199

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

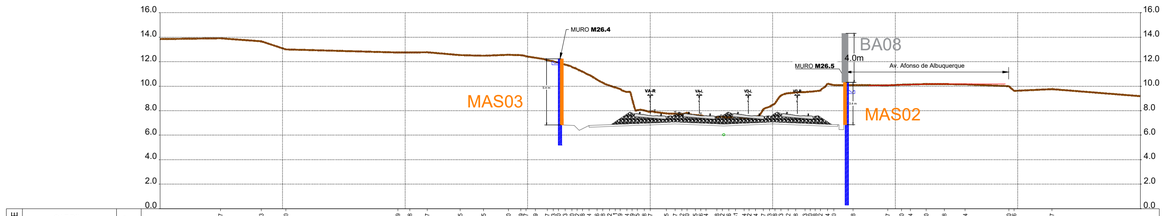
Projeto de Execução

DESENHO 2

BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
MAS2 e MAS3 - Material Absorvente Sonoro
Km 26+580 ao Km 26+950

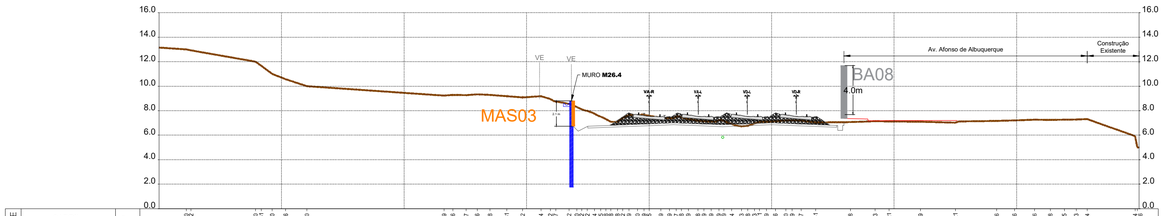
FOLHA 39/45

Escala:
1:250



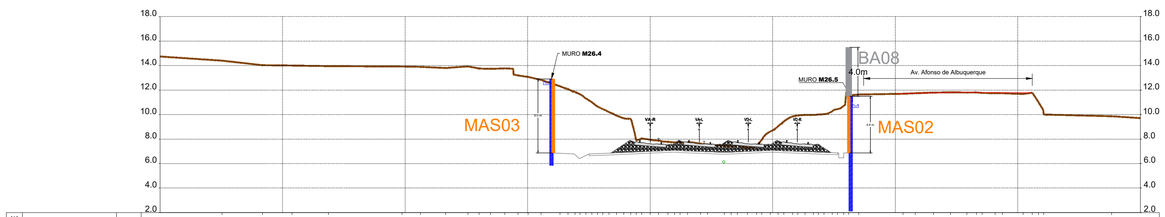
Pk 26+850.000
Km 26+853.725

P204



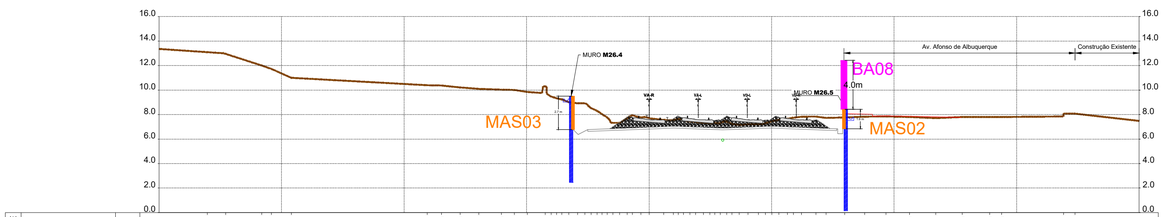
Pk 26+925.000
Km 26+927.292

P207



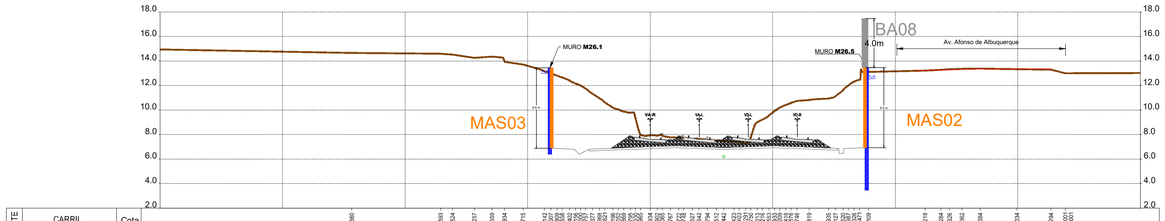
Pk 26+825.000
Km 26+828.687

P203



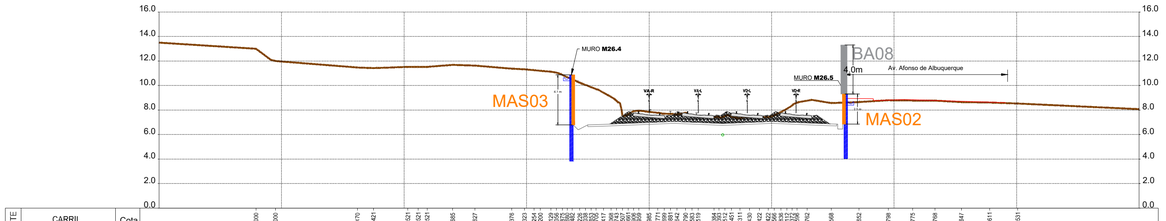
Pk 26+900.000
Km 26+902.275

P206



Pk 26+800.000
Km 26+803.639

P202



Pk 26+875.000
Km 26+878.756

P205

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

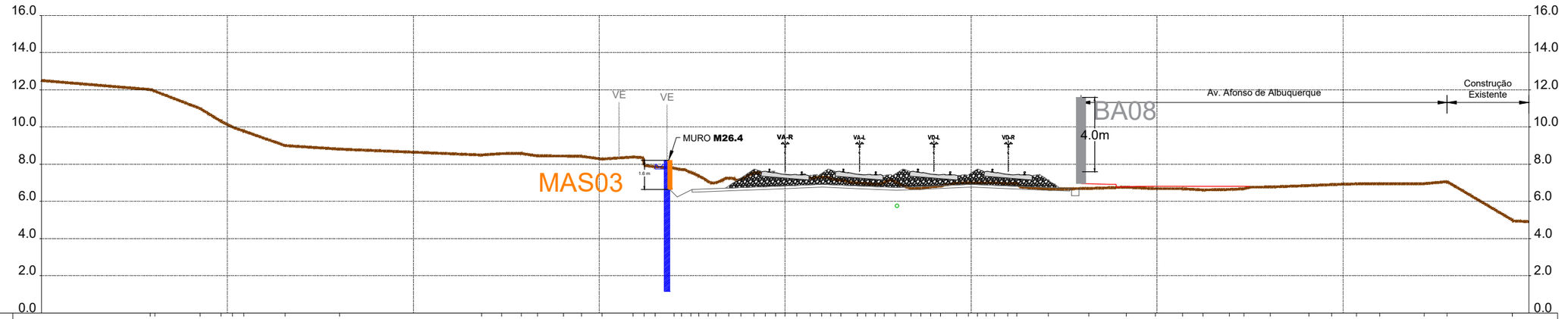
Projeto de Execução

DESENHO 2

BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
MAS02 e MAS03 - Material Absorvente Sonoro
Km 26+580 ao Km 26+950

FOLHA 40/45

0 5 10m
Escala:
1:250



EXISTENTE	CARRIL (face guiamento) TERRENO NATURAL	Cota	12.015 11.927 11.000 10.308 10.000 9.786 9.000 8.810 8.494 8.568 8.576 8.447 8.439 8.424 8.277 8.384 7.944 7.864 7.785 7.708 7.558 7.372 7.074 6.998 7.242 7.189 7.535 7.486 7.430 7.358 7.285 7.257 7.206 7.143 6.990 6.966 7.039 7.032 6.683 6.693 6.761 6.820 6.968 7.004 6.989 7.001 7.000 6.956 6.975 6.654 6.694 6.761 6.681 6.681 6.613 6.640 6.679 6.773 6.849 6.903 6.943 6.955 6.951 7.062 5.004 4.953
		Dist.	-34.144 -33.897 -31.471 -30.341 -29.726 -29.125 -26.891 -23.963 -16.336 -15.249 -14.194 -13.328 -11.929 -10.958 -9.856 -8.172 -7.591 -7.001 -5.977 -5.571 -5.063 -4.645 -4.144 -3.734 -3.038 -2.374 -1.673 -1.074 -0.524 0.000 0.631 1.342 1.954 2.450 3.002 3.891 4.328 4.849 5.339 5.917 6.769 7.302 7.825 8.343 9.213 9.861 10.336 10.809 11.244 11.976 12.448 14.151 16.333 18.337 19.916 21.374 22.461 23.879 24.674 26.092 28.168 29.386 30.724 31.967 34.362 35.604 38.102 39.113
PROJETO	CARRIS	Cota	7.733 7.588 7.734 7.588 7.732 7.587 7.732 7.587
		Dist.	0.000 4.001 8.001 12.002
	TERRAPLENAGEM	Cota	6.637 6.237 6.637 6.747 6.837 6.874 6.917 6.840 6.756 6.838 6.916 6.876 6.838 6.771 6.704 6.704 6.303 6.304 6.703 6.704
		Dist.	-6.198 -5.798 -4.997 -2.252 0.000 0.933 2.004 3.910 6.005 8.046 10.005 11.002 12.006 13.619 15.306 15.407 15.407 15.807 15.906 15.910
	DRENAGEM	Cota	6.646 5.646
		Dist.	6.005

Pk 26+950.000
Km 26+952.304

P208

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

DESENHO 2

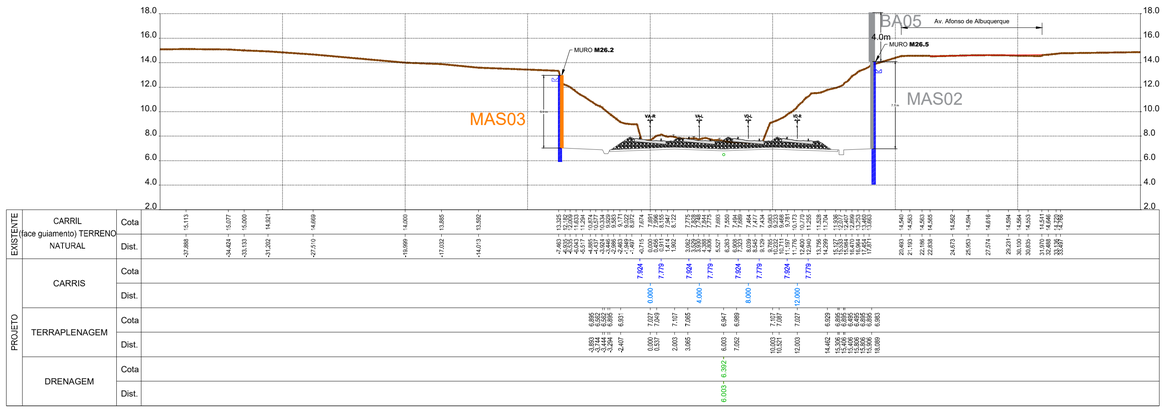
BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
MAS03 - Material Absorvente Sonoro

Km 26+580 ao Km 26+950

FOLHA 41/45

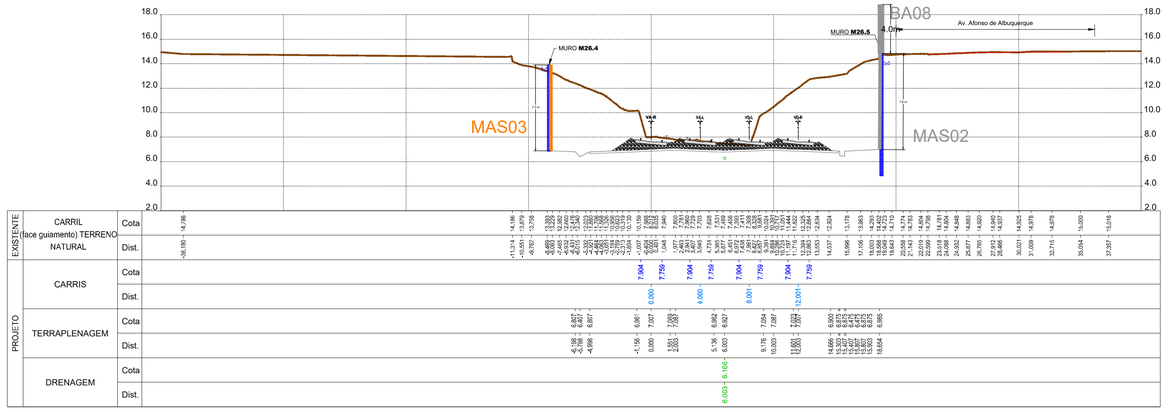
0 5 10m

Escala:
1:250



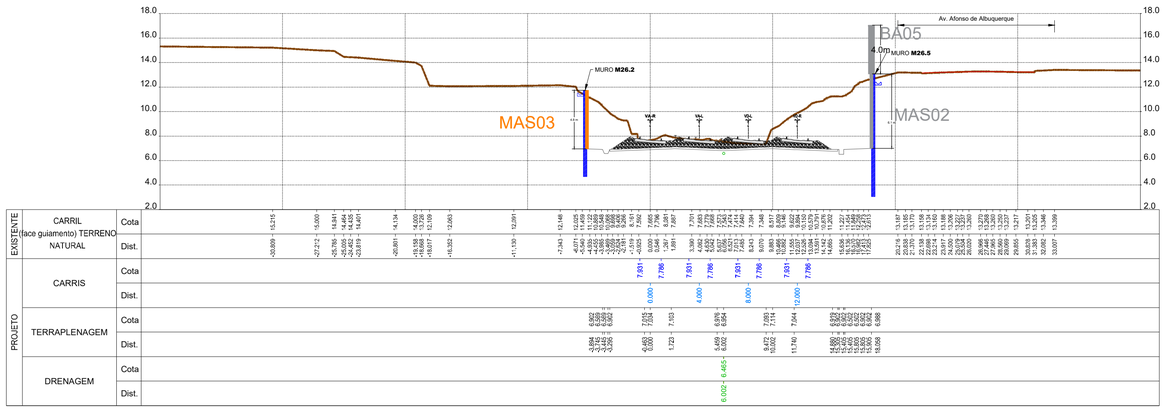
Pk 26+700.000
Km 26+703.664

P198



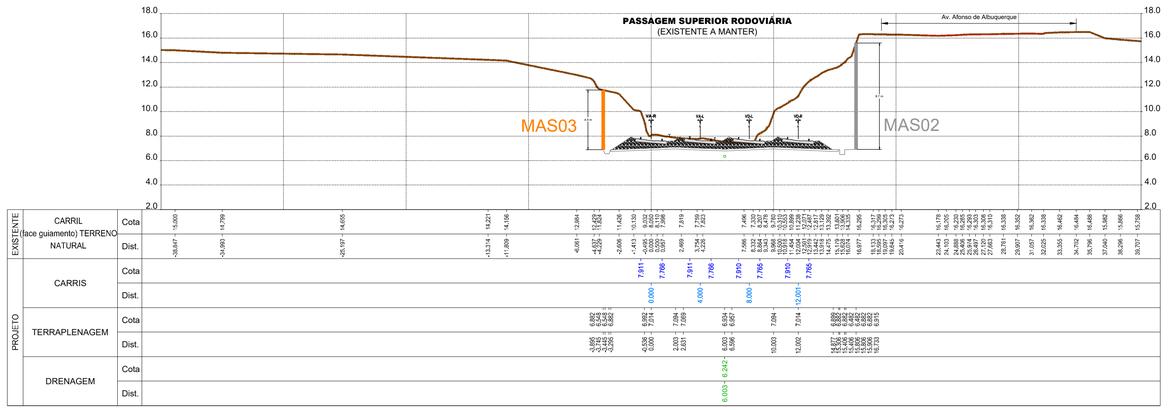
Pk 26+775.000
Km 26+778.851

P201



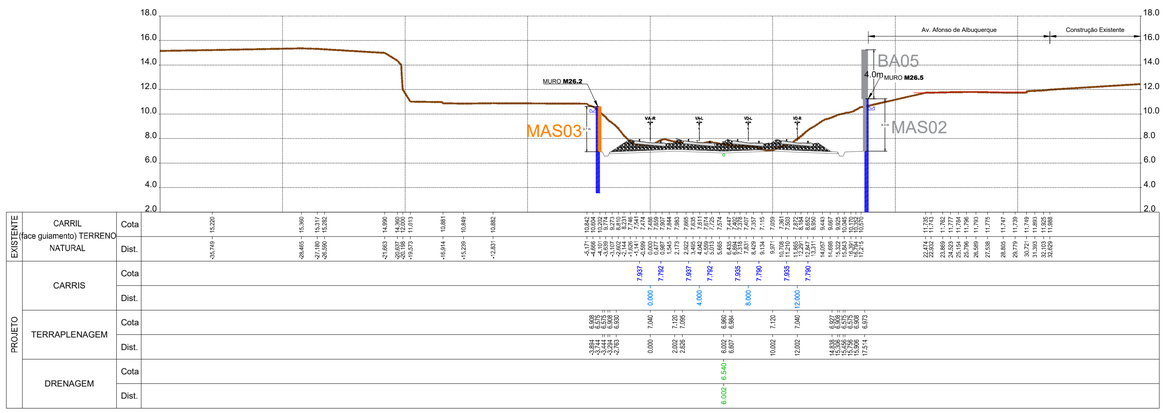
Pk 26+675.000
Km 26+679.296

P197



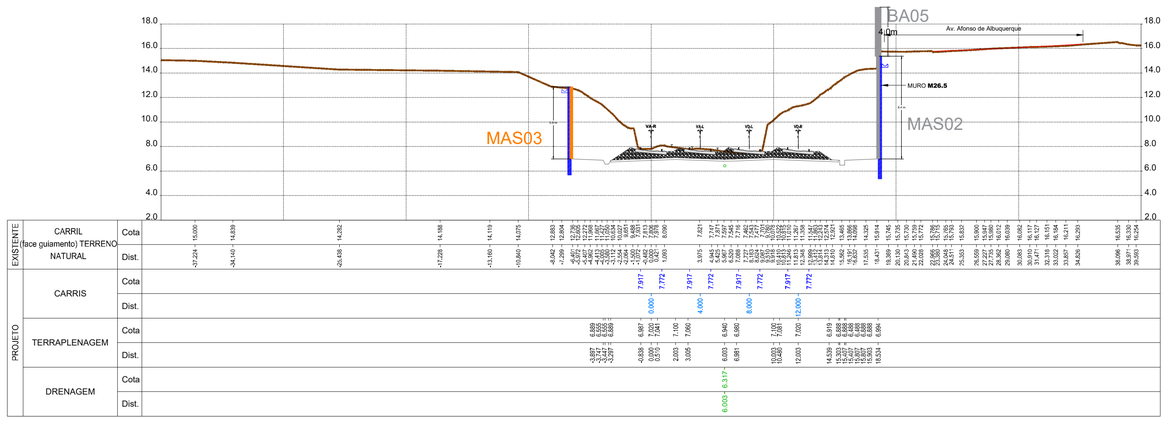
Pk 26+750.000
Km 26+753.792

P200



Pk 26+650.000
Km 26+654.208

P196



Pk 26+725.000
Km 26+728.729

P199

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

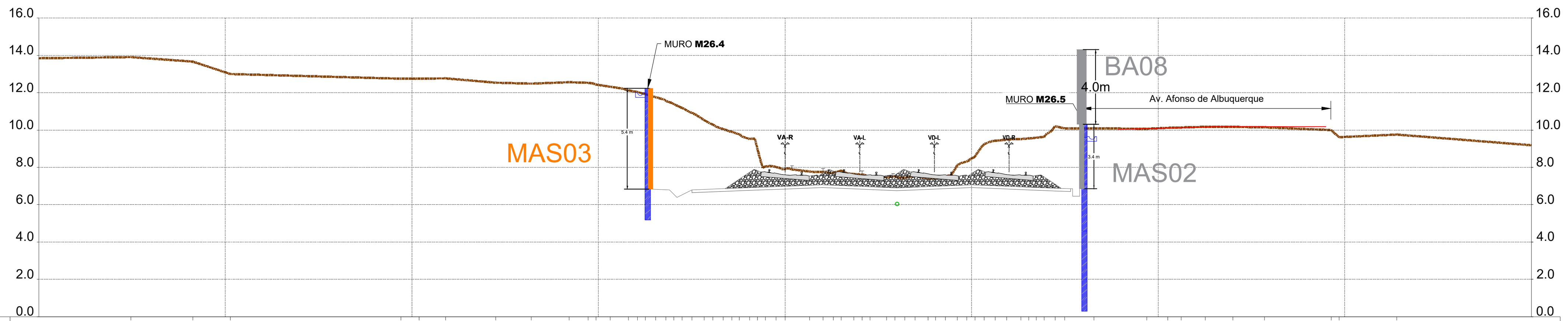
Projeto de Execução

DESENHO 2

BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
MAS03 - Material Absorvente Sonoro
Km 26+580 ao Km 26+962

FOLHA 42/45

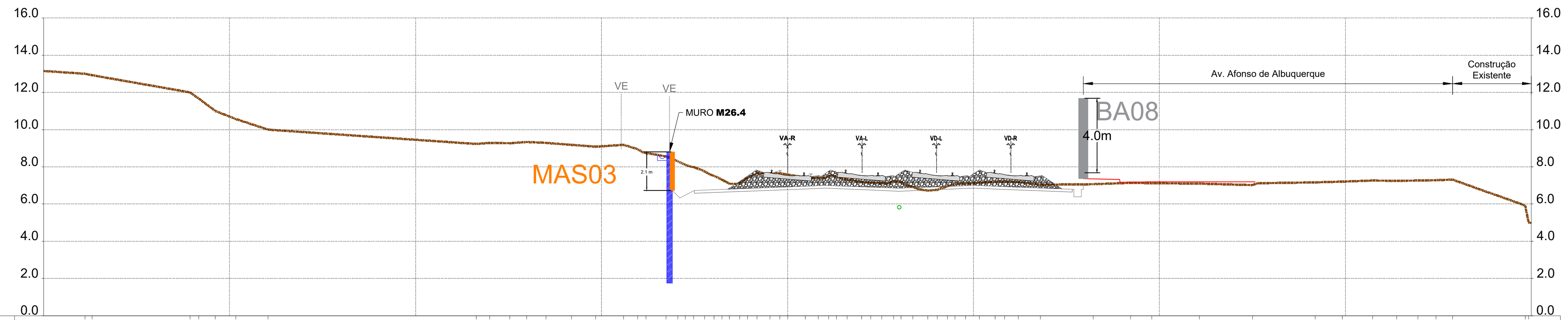
0 5 10m
Escala:
1:250



EXISTENTE — CARRIL (face guiamento) TERRENO NATURAL	Cota	13.907 13.663 13.000 12.749 12.748 12.767 12.535 12.485 12.560 12.529 12.437 12.319 12.127 12.033 11.920 11.763 11.560 11.392 11.188 10.924 10.536 10.288 10.052 9.911 9.769 9.524 8.959 8.045 8.018 7.917 7.775 7.927 7.722 7.820 7.645 7.816 7.504 7.468 7.522 7.436 7.581 7.404 7.422 7.514 8.107 8.313 8.568 9.243 9.432 9.488 9.513 9.550 9.588 9.642 10.204 10.090 10.088 10.067 10.120 10.134 10.170 10.168 10.144 10.000 9.616 9.757
	Dist.	-35.074 -31.741 -29.733 -20.595 -19.619 -18.199 -15.508 -13.600 -11.568 -10.551 -10.144 -9.370 -8.405 -7.903 -7.481 -6.948 -6.383 -5.958 -5.530 -4.988 -4.341 -3.868 -3.328 -2.864 -2.458 -1.897 -1.470 -1.062 -0.485 0.000 1.317 2.039 2.580 3.000 3.678 4.130 4.544 5.450 5.880 6.410 6.971 7.664 8.074 8.603 9.236 9.738 10.178 10.665 11.261 11.876 12.629 13.053 13.474 13.891 14.477 14.988 16.558 19.387 20.520 21.234 22.531 24.004 25.708 29.267 29.702 32.796
PROJETO — CARRIS	Cota	7.883 7.738 7.883 7.738 7.883 7.738 7.883 7.738
	Dist.	0.000 4.000 8.000 12.000
PROJETO — TERRAPLENAGEM	Cota	6.787 6.387 6.787 6.935 6.987 7.047 7.067 6.946 6.907 7.028 7.067 7.005 6.987 6.885 6.855 6.855 6.455 6.455 6.855 6.855
	Dist.	-6.197 -5.797 -4.997 -1.278 0.000 1.498 2.003 5.020 6.003 9.047 10.003 11.533 12.003 14.545 15.303 15.407 15.407 15.807 15.807 15.903
PROJETO — DRENAGEM	Cota	5.942
	Dist.	6.003

Pk 26+850.000
Km 26+853.725

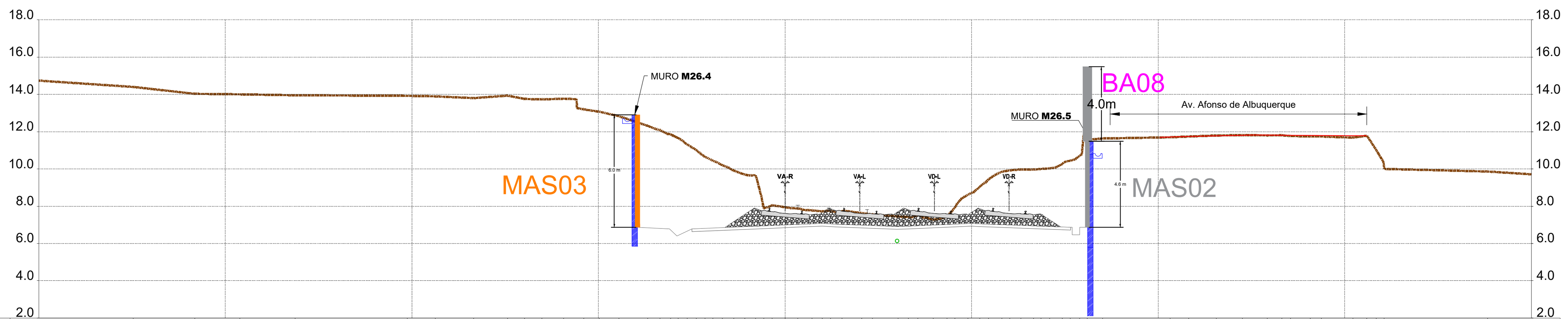
P204



EXISTENTE — CARRIL (face guiamento) TERRENO NATURAL	Cota	13.000 12.922 12.000 11.661 11.000 10.566 10.000 9.229 9.286 9.267 9.336 9.288 9.181 9.082 9.184 8.952 8.747 8.552 8.300 8.112 7.992 7.754 7.505 7.308 7.088 7.088 7.402 7.659 7.630 7.779 7.675 7.429 7.379 7.507 7.448 7.309 7.178 7.139 7.319 7.239 7.159 6.924 6.723 6.768 6.963 7.071 7.099 7.136 7.200 7.209 7.187 7.041 7.068 7.143 7.121 7.099 7.021 7.166 7.206 7.266 7.248 7.265 7.283 7.314 5.924 4.996
	Dist.	-37.775 -37.382 -32.123 -31.649 -30.758 -29.655 -27.930 -16.729 -16.017 -14.924 -14.029 -12.983 -11.618 -10.318 -8.820 -8.060 -7.618 -6.531 -5.905 -5.503 -5.040 -4.448 -3.941 -3.520 -3.113 -2.583 -2.144 -1.642 -0.946 -0.407 0.000 0.964 1.665 2.207 2.640 3.203 3.981 4.484 5.070 5.695 6.103 6.748 7.542 8.062 8.597 9.014 9.576 10.307 11.165 11.680 12.404 13.590 16.431 18.453 19.584 22.155 24.997 28.370 29.829 31.462 32.750 33.886 34.861 35.757 39.664 39.853
PROJETO — CARRIS	Cota	7.824 7.679 7.825 7.680 7.825 7.680 7.825 7.680
	Dist.	0.000 4.001 8.002 12.003
PROJETO — TERRAPLENAGEM	Cota	6.729 6.329 6.729 6.839 6.928 6.971 7.008 6.924 6.848 6.927 7.008 6.967 6.928 6.859 6.795 6.795 6.395 6.395 6.795 6.795
	Dist.	-6.194 -5.794 -4.994 -2.236 0.000 1.079 2.004 4.108 6.005 7.974 10.006 11.014 12.006 13.709 15.310 15.411 15.411 15.811 15.811 15.911
PROJETO — DRENAGEM	Cota	5.721
	Dist.	6.005

Pk 26+925.000
Km 26+927.292

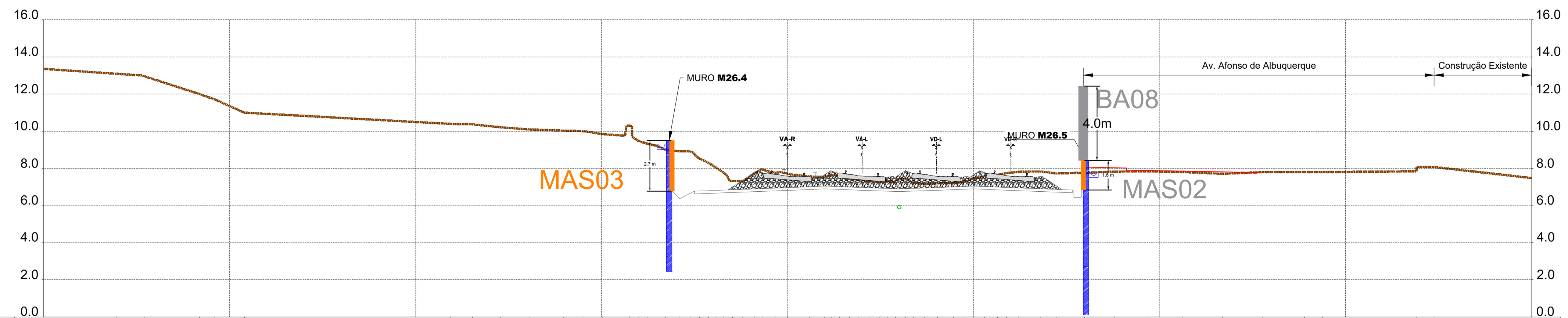
P207



EXISTENTE — CARRIL (face guiamento) TERRENO NATURAL	Cota	14.398 14.029 14.000 13.951 13.919 13.892 13.799 13.930 13.754 13.728 13.767 13.194 13.069 12.834 12.313 12.083 11.858 11.653 11.317 11.009 10.647 10.439 10.194 9.905 9.701 9.664 7.989 8.046 7.944 8.050 7.776 7.723 7.729 7.727 7.631 7.561 7.663 7.419 7.523 7.280 7.450 7.921 8.611 9.031 9.439 9.852 9.924 9.975 9.963 9.998 10.031 10.257 10.440 10.710 11.565 11.634 11.696 11.738 11.794 11.814 11.797 11.805 11.762 11.744 11.738 11.680 11.780 11.000 10.000 9.860
	Dist.	-34.946 -31.642 -29.229 -26.271 -20.249 -18.750 -16.689 -14.866 -13.957 -13.026 -11.868 -10.788 -9.961 -8.916 -7.369 -6.704 -6.144 -5.730 -5.245 -4.754 -4.301 -3.860 -3.358 -2.739 -2.164 -1.584 -1.144 -0.705 0.000 0.685 1.434 1.983 2.433 3.055 4.101 4.671 6.061 6.610 7.116 7.937 8.688 9.100 9.795 10.430 10.909 11.629 12.056 12.643 13.319 13.723 14.192 14.855 15.280 15.797 16.204 17.023 20.632 21.633 23.127 24.516 25.844 26.620 27.086 28.150 28.757 30.444 31.191 31.699 32.121 37.658
PROJETO — CARRIS	Cota	7.890 7.745 7.890 7.745 7.890 7.745 7.890 7.745
	Dist.	0.000 4.000 8.000 12.000
PROJETO — TERRAPLENAGEM	Cota	6.793 6.393 6.793 6.957 6.993 7.073 7.045 6.913 6.941 7.073 6.994 6.882 6.862 6.862 6.462 6.462 6.862 6.862
	Dist.	-6.195 -5.795 -4.995 -0.907 0.000 2.003 2.709 6.003 6.679 10.003 12.002 14.798 15.306 15.394 15.394 15.794 15.794 16.207
PROJETO — DRENAGEM	Cota	6.017
	Dist.	6.003

Pk 26+825.000
Km 26+828.687

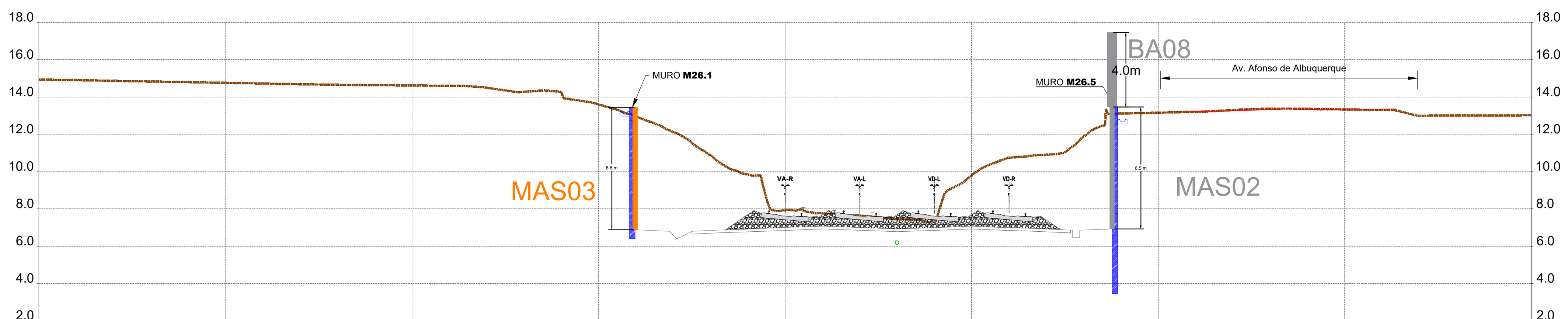
P203



EXISTENTE — CARRIL (face guiamento) TERRENO NATURAL	Cota	13.090 12.950 12.000 11.732 11.000 10.394 10.371 10.211 10.096 10.031 10.006 9.844 10.300 9.463 9.326 9.234 8.995 8.920 8.912 8.521 8.303 8.035 7.762 7.322 7.309 7.713 7.947 7.765 7.796 7.564 7.543 7.639 7.597 7.445 7.398 7.332 7.283 7.343 7.322 7.438 7.233 7.157 7.212 7.203 7.284 7.468 7.581 7.657 7.744 7.819 7.835 7.726 7.764 7.825 7.842 7.801 7.708 7.801 7.801 7.801 8.072 8.072
	Dist.	-36.065 -34.557 -31.612 -30.839 -29.208 -18.118 -16.954 -15.425 -13.888 -12.049 -10.991 -9.948 -8.473 -8.000 -7.546 -7.116 -6.543 -5.824 -5.241 -4.728 -4.255 -3.853 -3.419 -2.952 -2.405 -1.786 -1.356 -0.658 0.000 1.188 1.969 2.380 2.801 3.341 3.788 4.424 4.971 5.372 5.817 6.330 6.763 7.364 8.064 8.920 9.502 10.030 10.596 11.290 11.773 12.441 13.610 14.440 15.969 17.605 19.326 21.266 23.408 25.565 27.803 28.782 33.825 34.773
PROJETO — CARRIS	Cota	7.867 7.722 7.869 7.724 7.867 7.722 7.867 7.722
	Dist.	0.000 4.001 8.001 12.002
PROJETO — TERRAPLENAGEM	Cota	6.772 6.372 6.772 6.861 6.972 7.015 7.052 6.967 6.892 6.969 7.052 7.012 6.972 6.905 6.839 6.839 6.439 6.439 6.839 6.839
	Dist.	-6.194 -5.794 -4.994 -2.765 0.000 1.087 2.004 4.129 6.004 7.945 10.005 10.997 12.005 13.676 15.310 15.410 15.410 15.810 15.810 15.910
PROJETO — DRENAGEM	Cota	5.796
	Dist.	6.004

Pk 26+900.000
Km 26+902.275

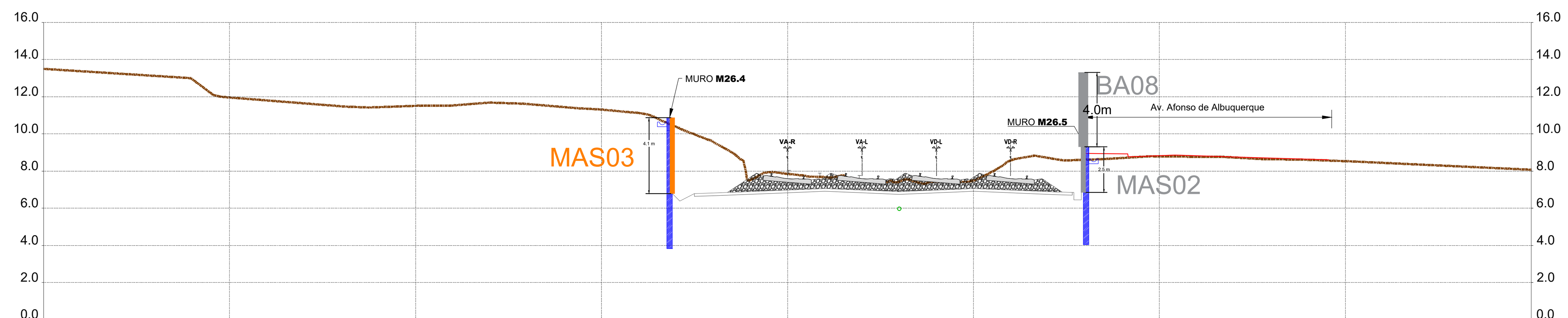
P206



EXISTENTE — CARRIL (face guiamento) TERRENO NATURAL	Cota	14.660 14.593 14.524 14.257 14.359 13.934 13.715 13.142 13.007 12.809 12.658 12.402 12.156 12.000 11.757 11.327 10.968 10.621 10.196 10.052 9.869 9.795 9.330 7.965 7.934 7.902 8.065 7.767 7.722 7.748 7.627 7.642 7.794 7.512 7.442 7.423 7.403 7.291 7.750 9.013 9.216 9.553 9.933 10.209 10.418 10.576 10.746 10.819 10.935 11.127 11.620 11.987 12.326 12.471 13.109 13.218 13.284 13.326 13.362 13.384 13.334 13.294 13.001 13.001
	Dist.	-24.353 -17.103 -16.122 -14.351 -12.912 -11.884 -10.376 -8.605 -8.109 -7.604 -7.184 -6.571 -6.086 -5.680 -5.262 -4.710 -4.146 -3.704 -3.040 -2.594 -2.164 -1.607 -1.197 -0.794 0.000 0.565 0.983 1.644 2.338 2.739 3.432 3.985 4.670 5.395 6.007 6.834 7.266 7.784 8.209 8.750 9.157 9.698 10.153 10.583 11.076 11.496 11.974 12.975 14.557 15.136 15.742 16.172 16.644 17.080 17.827 22.438 23.733 24.438 25.443 26.933 29.941 32.712 33.881 33.900
PROJETO — CARRIS	Cota	7.897 7.752 7.897 7.752 7.897 7.752 7.897 7.752
	Dist.	0.000 4.000 8.000 12.000
PROJETO — TERRAPLENAGEM	Cota	6.800 6.400 6.800 6.856 7.000 7.059 7.080 6.962 6.920 7.039 7.080 7.020 7.000 6.901 6.868 6.868 6.468 6.468 6.868 6.868 6.933
	Dist.	-6.197 -5.797 -4.997 -3.600 0.000 1.464 2.003 4.951 6.003 8.979 10.003 11.499 12.003 14.490 15.303 15.407 15.407 15.807 15.807 15.903 17.530
PROJETO — DRENAGEM	Cota	6.092
	Dist.	6.003

Pk 26+800.000
Km 26+803.639

P202



EXISTENTE — CARRIL (face guiamento) TERRENO NATURAL	Cota	13.000 12.000 11.470 11.421 11.521 11.521 11.521 11.685 11.627 11.376 11.323 11.254 11.200 11.129 11.056 10.875 10.680 10.482 10.226 10.038 9.853 9.705 9.417 9.068 8.743 7.507 7.661 7.906 7.959 7.985 7.771 7.699 7.881 7.642 7.790 7.583 7.519 7.384 7.393 7.512 7.451 7.311 7.430 7.422 7.422 7.566 7.836 8.112 8.372 8.596 8.762 8.568 8.652 8.798 8.775 8.768 8.647 8.611 8.531
	Dist.	-32.080 -30.494 -23.797 -22.499 -19.686 -18.839 -18.114 -16.026 -14.216 -11.209 -10.170 -9.382 -8.870 -8.016 -7.563 -7.084 -6.682 -6.269 -5.653 -5.203 -4.725 -4.323 -3.719 -3.100 -2.659 -2.166 -1.705 -1.260 -0.830 0.000 0.716 1.236 1.735 2.277 2.980 3.506 4.006 5.301 5.706 6.190 6.727 7.416 8.201 9.007 9.717 10.203 10.763 11.255 11.669 12.072 12.898 14.862 17.131 19.524 21.511 23.333 25.487 27.792 30.095
PROJETO — CARRIS	Cota	7.877 7.732 7.877 7.732 7.877 7.732 7.877 7.732
	Dist.	0.000 4.000 8.000 12.000
PROJETO — TERRAPLENAGEM	Cota	6.780 6.380 6.780 6.831 6.980 7.040 7.060 6.938 6.900 7.022 7.060 6.998 6.980 6.878 6.848 6.848 6.448 6.448 6.848 6.848
	Dist.	-6.194 -5.794 -4.994 -3.723 0.000 1.510 2.003 5.039 6.003 9.062 10.003 11.539 12.003 14.552 15.307 15.407 15.407 15.807 15.807 15.907
PROJETO — DRENAGEM	Cota	5.867
	Dist.	6.003

Pk 26+875.000
Km 26+878.756

P205

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

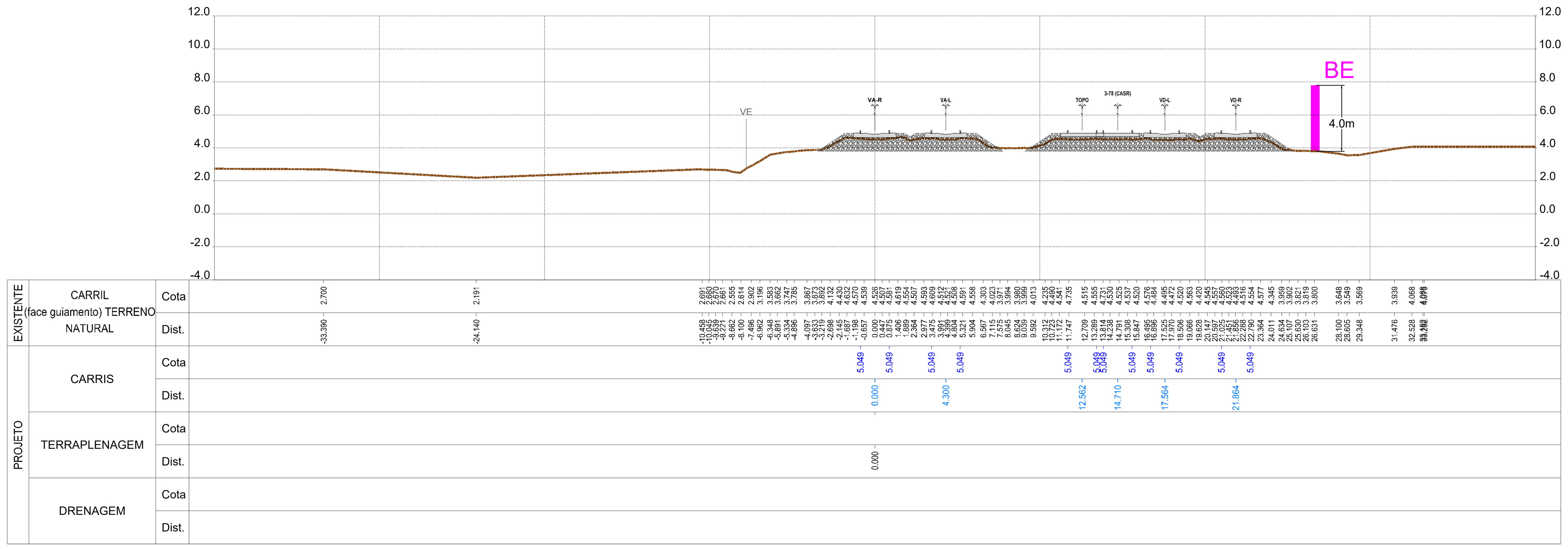
LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

DESENHO 2

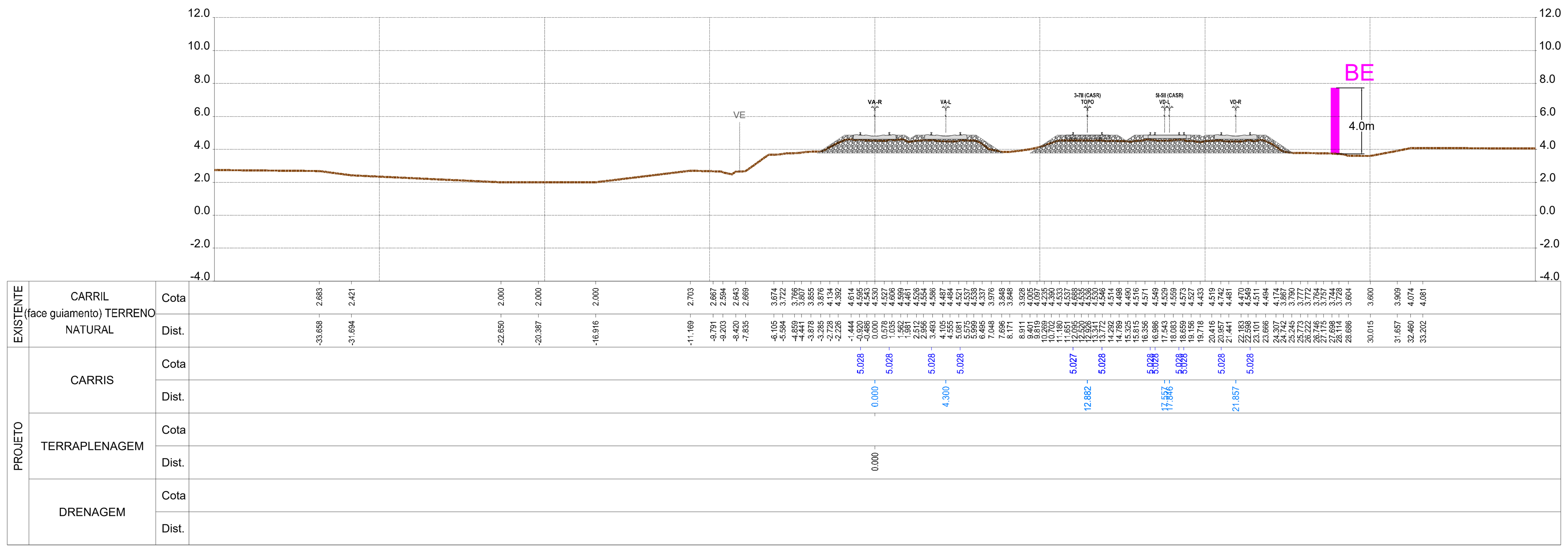
BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
MAS03 - Material Absorvente Sonoro
Km 26+580 ao Km 26+962
FOLHA 43/45

0 5 10m
Escala:
1:250



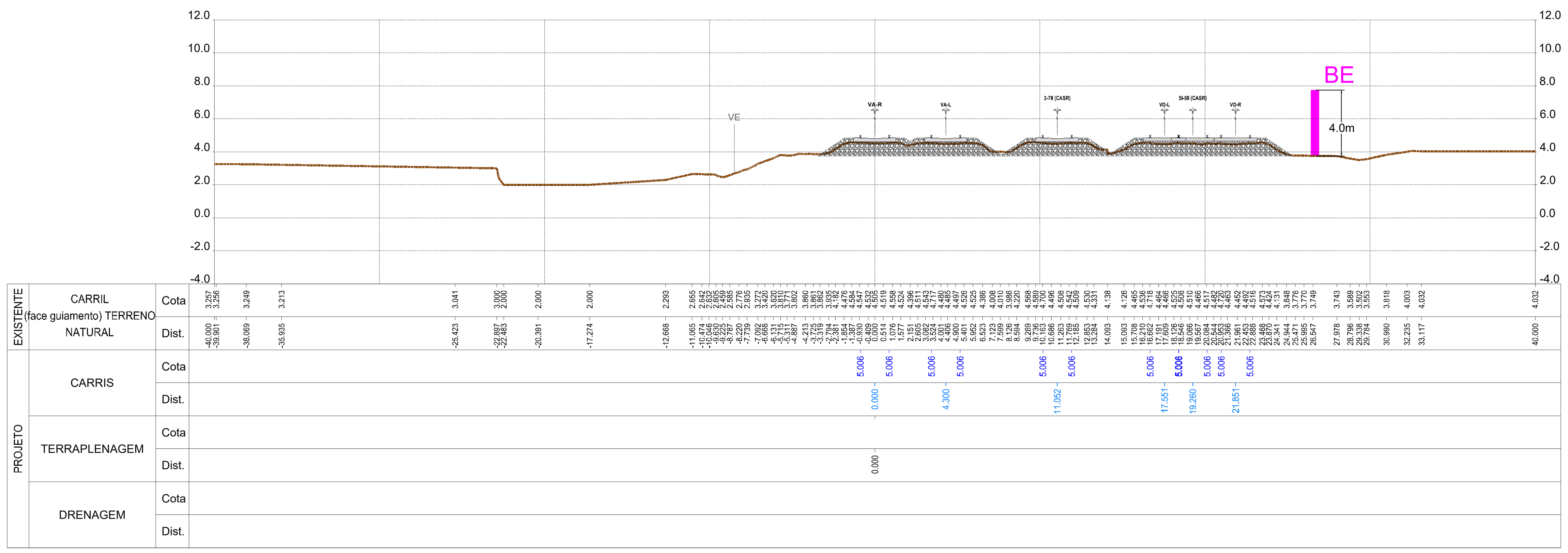
Pk 33+875.000
Km 33+863.583

P485



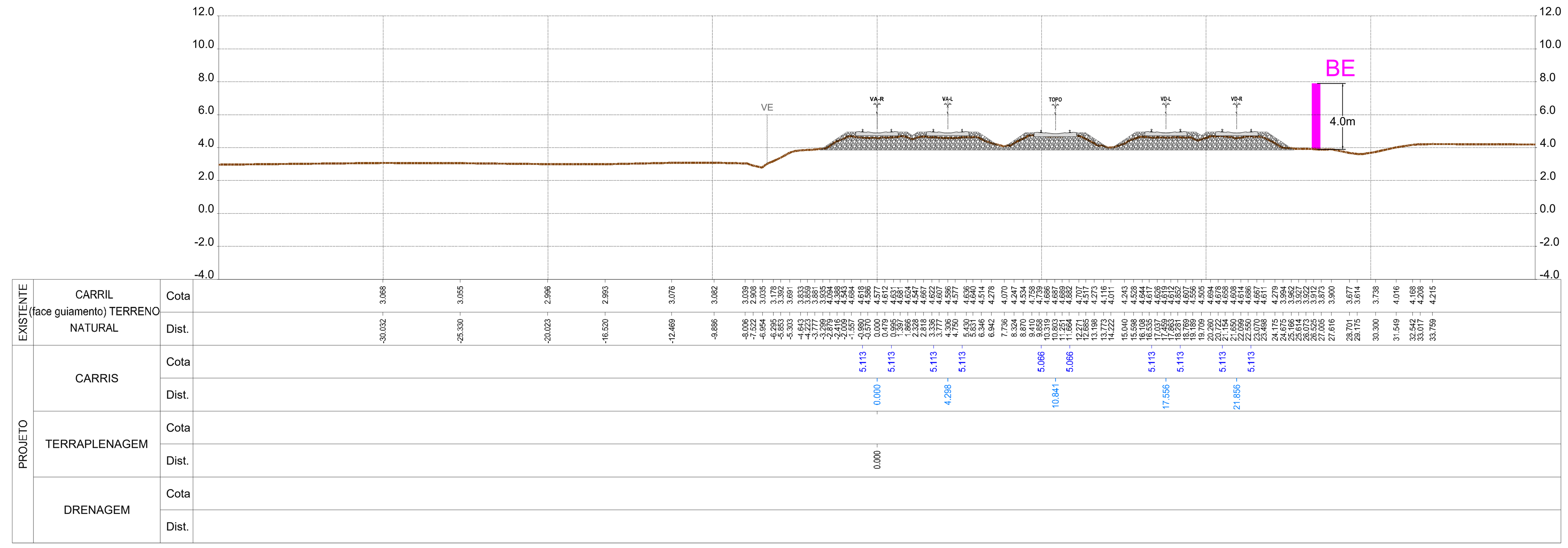
Pk 33+850.000
Km 33+838.583

P484



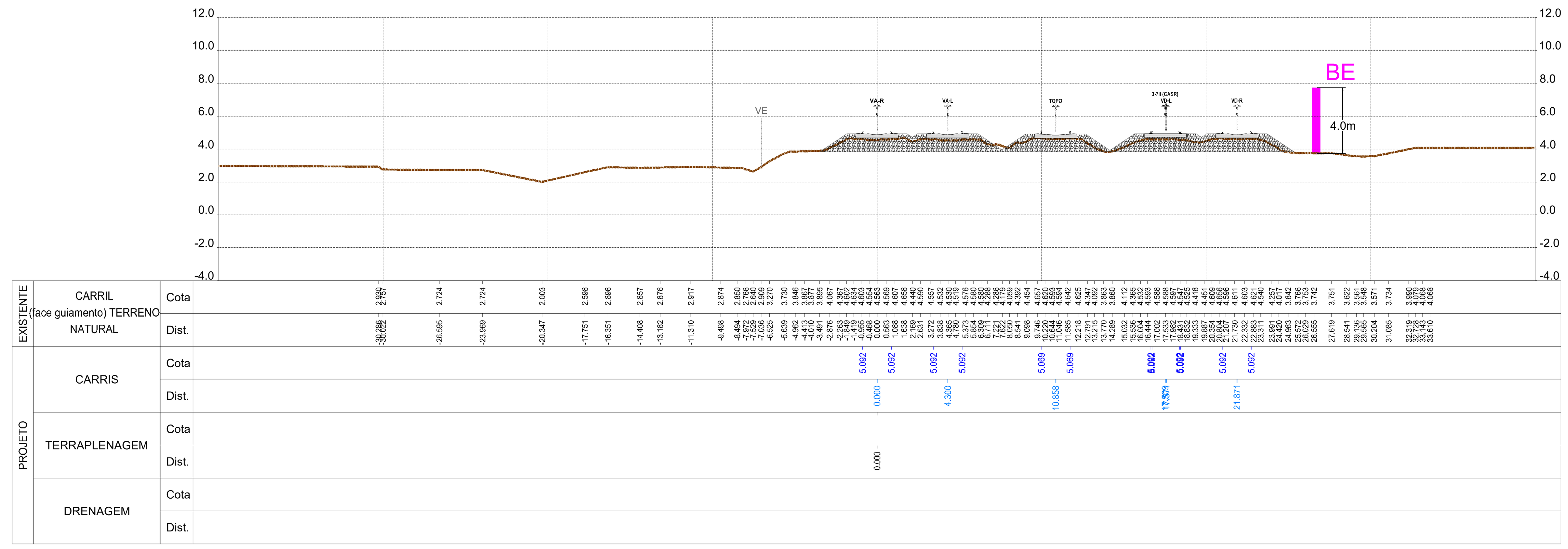
Pk 33+825.000
Km 33+813.583

P483



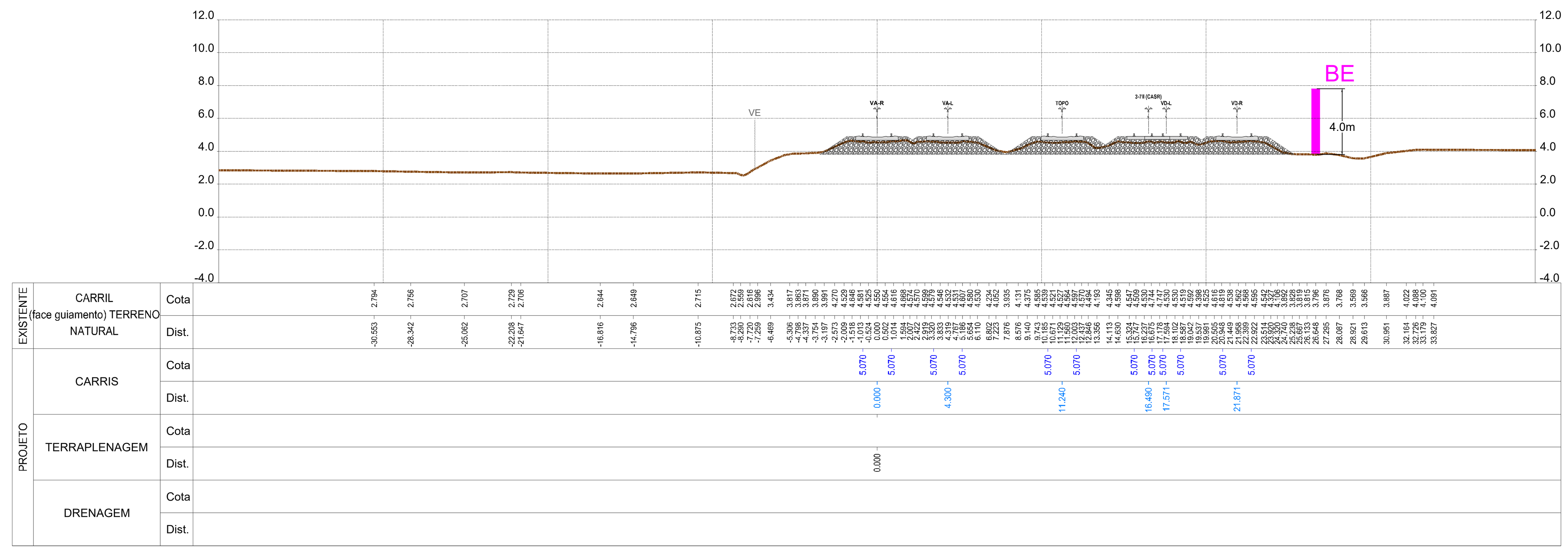
Pk 33+950.000
Km 33+938.392

P488



Pk 33+925.000
Km 33+913.392

P487



Pk 33+900.000
Km 33+888.392

P486

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

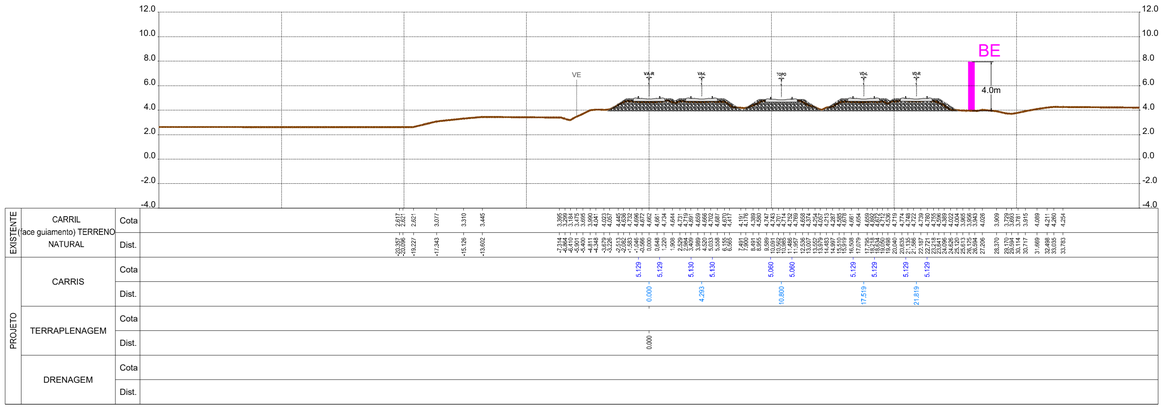
LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

DESENHO 2

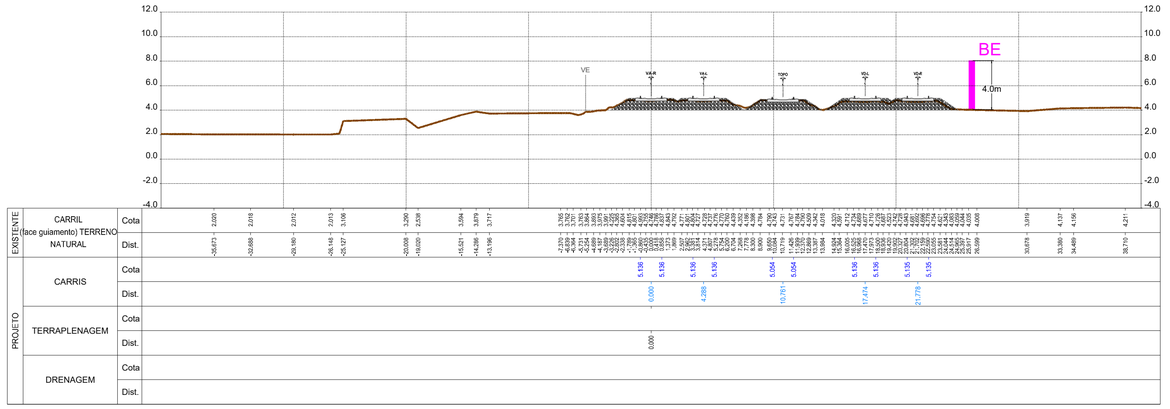
BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BE - Material Absorvente Sonoro
Km 33+791 ao Km 34+061
FOLHA 44/45

0 5 10m
Escala:
1:250



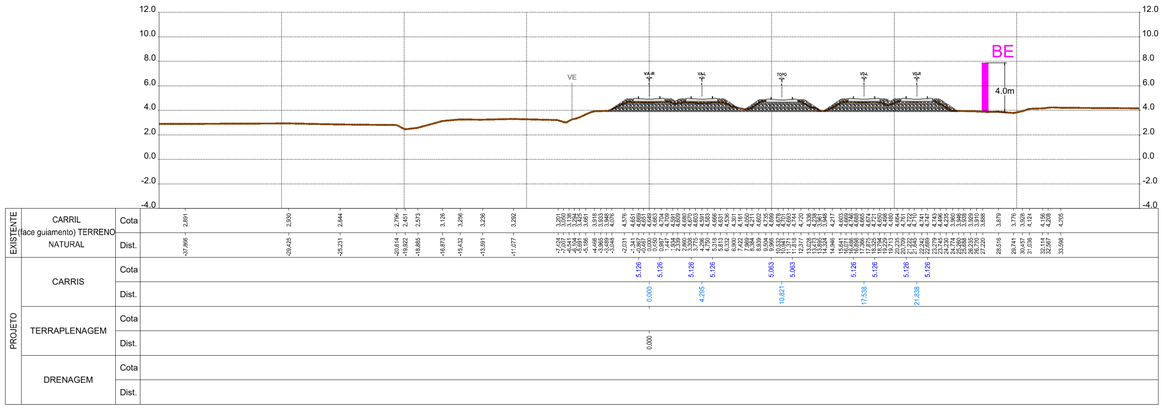
Pk 34+000.000
Km 33+988.761

P490



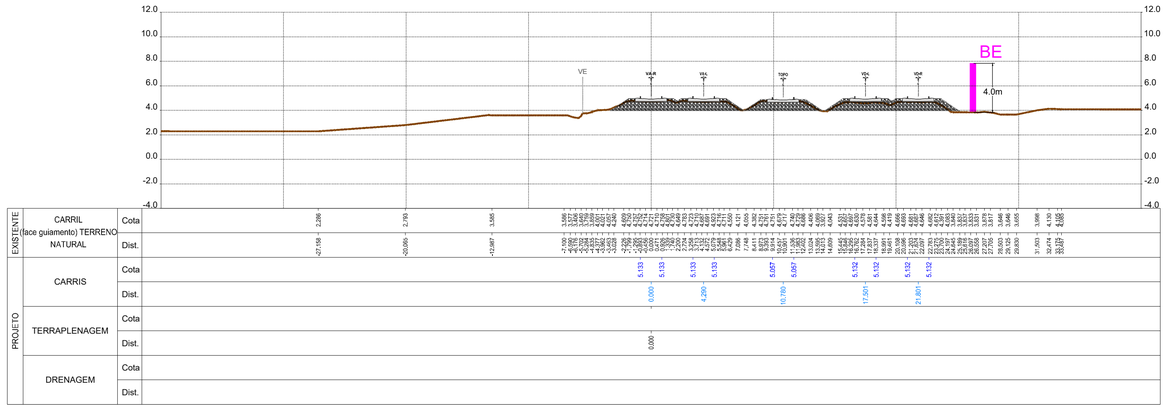
Pk 34+050.000
Km 34+038.761

P492



Pk 33+975.000
Km 33+963.392

P489



Pk 34+025.000
Km 34+013.761

P491

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

DESENHO 2

BARREIRAS ACÚSTICAS - PERFIS TRANSVERSAIS
BE - Material Absorvente Sonoro
Km 33+791 ao Km 34+061

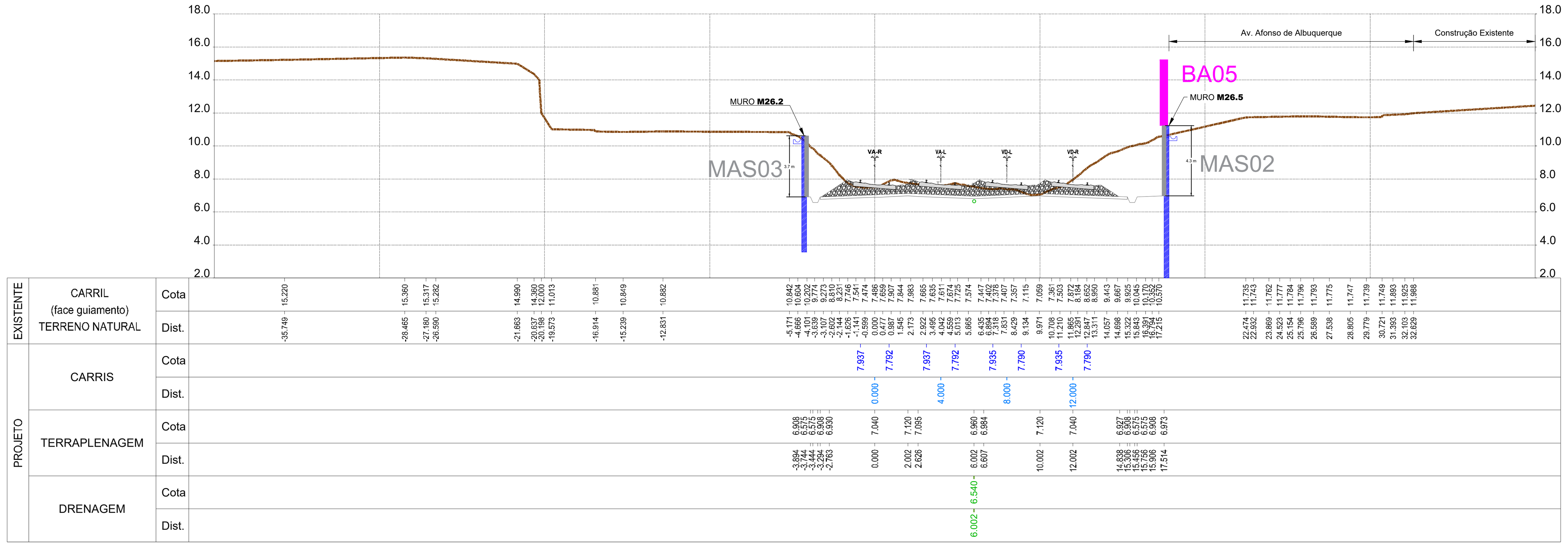
FOLHA 45/45

0 5 10m
Escala:
1:250

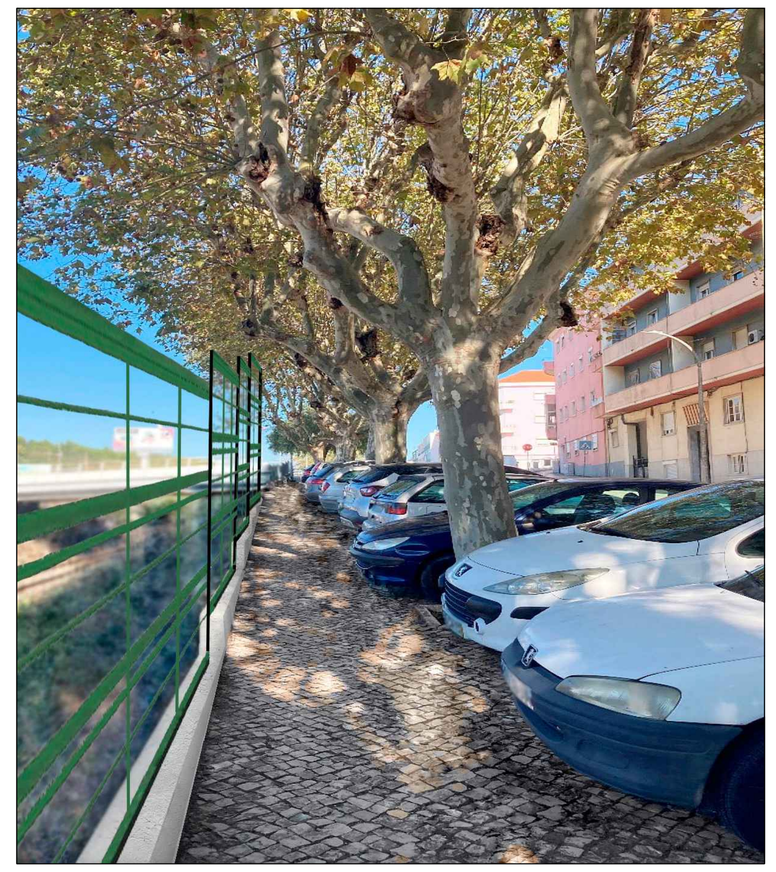
Barreira Acústica BA05 - Av. Afonso de Albuquerque

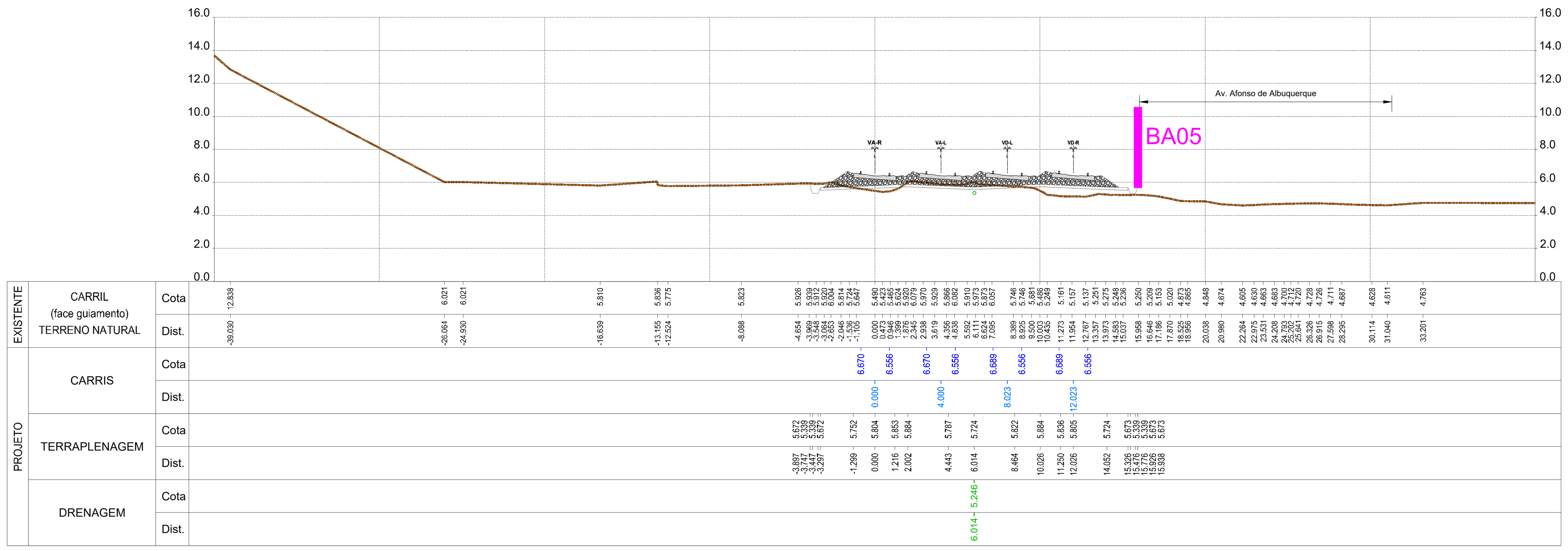
Situação Atual

Situação Futura



Pk 26+650.000
Km 26+654.208
P196





Pk 26+450.000
Km 26+448.028
P188

PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

ILUSTRAÇÃO DA SITUAÇÃO FUTURA COM BARREIRA ACÚSTICA

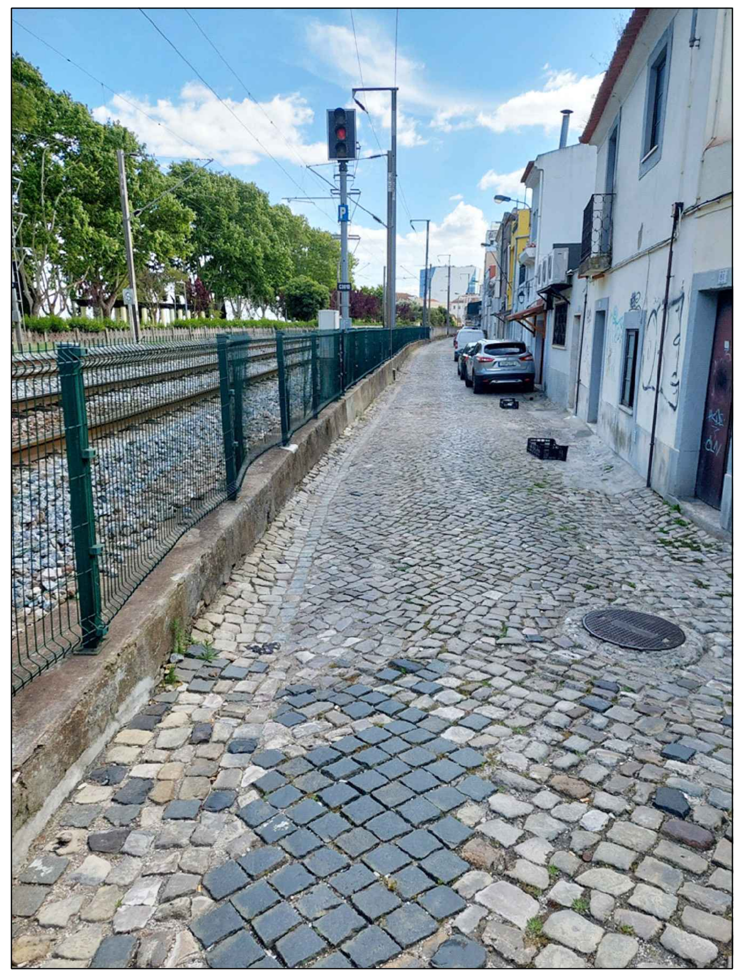
Barreira BA05 - Av. Afonso de Albuquerque
Situação Atual / Situação Futura
Km 26+448 e Km 26+654

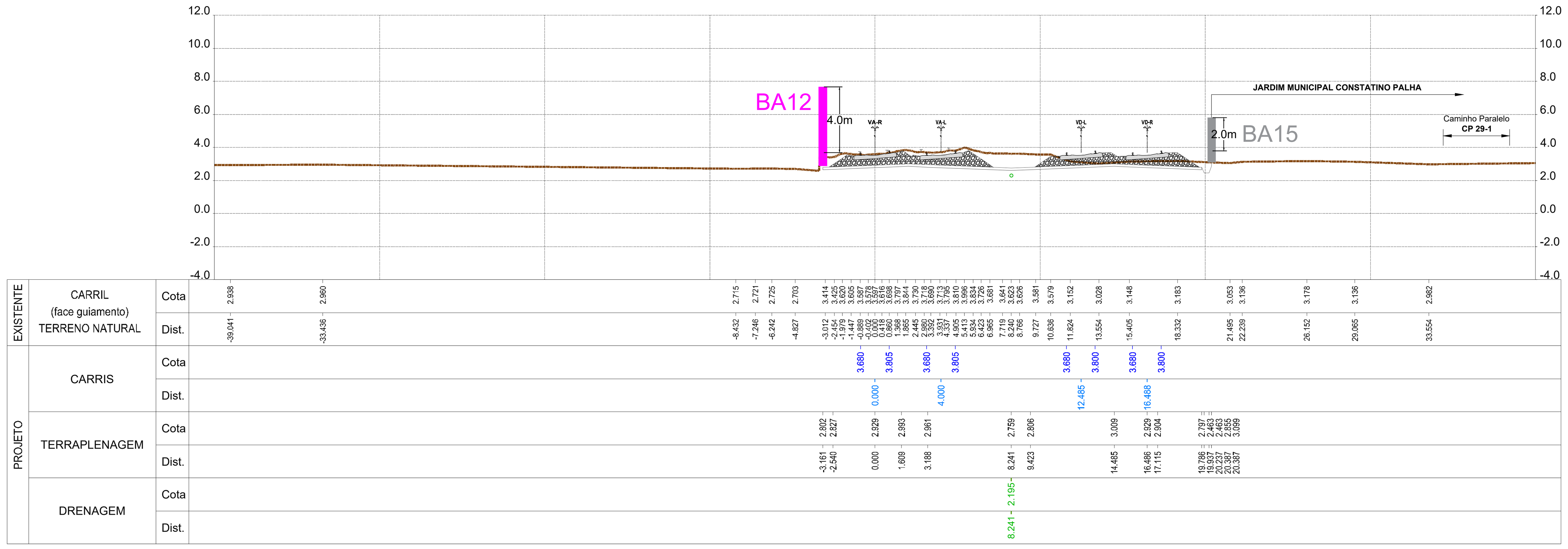
0 5 10m
Escala:
1:250

Barreira Acústica BA12 - Rua da Praia

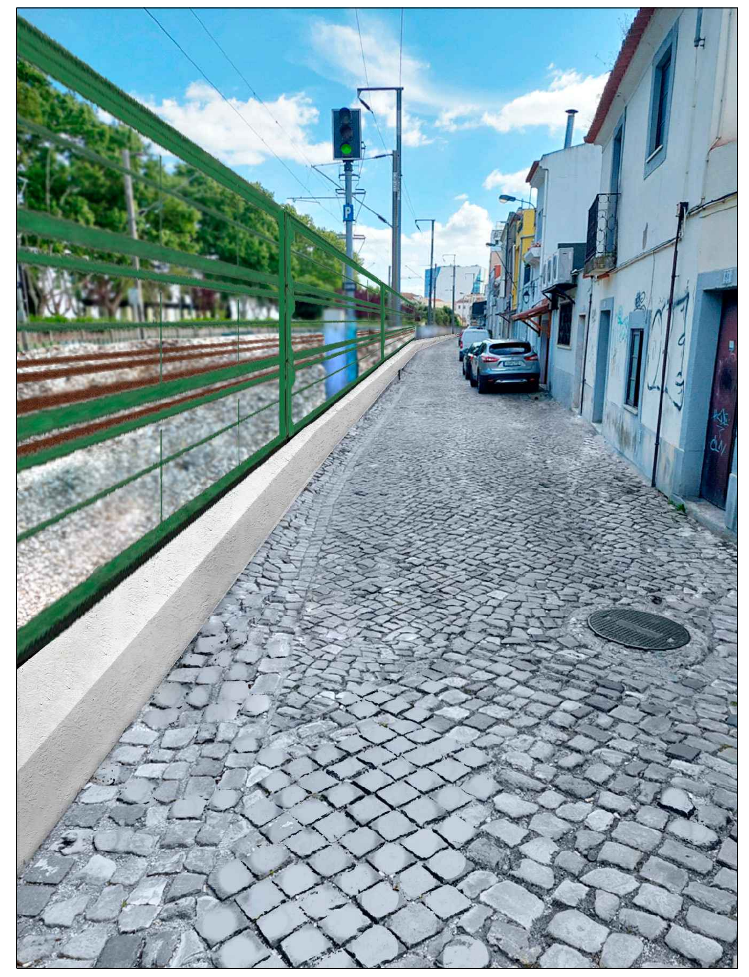
Situação Atual

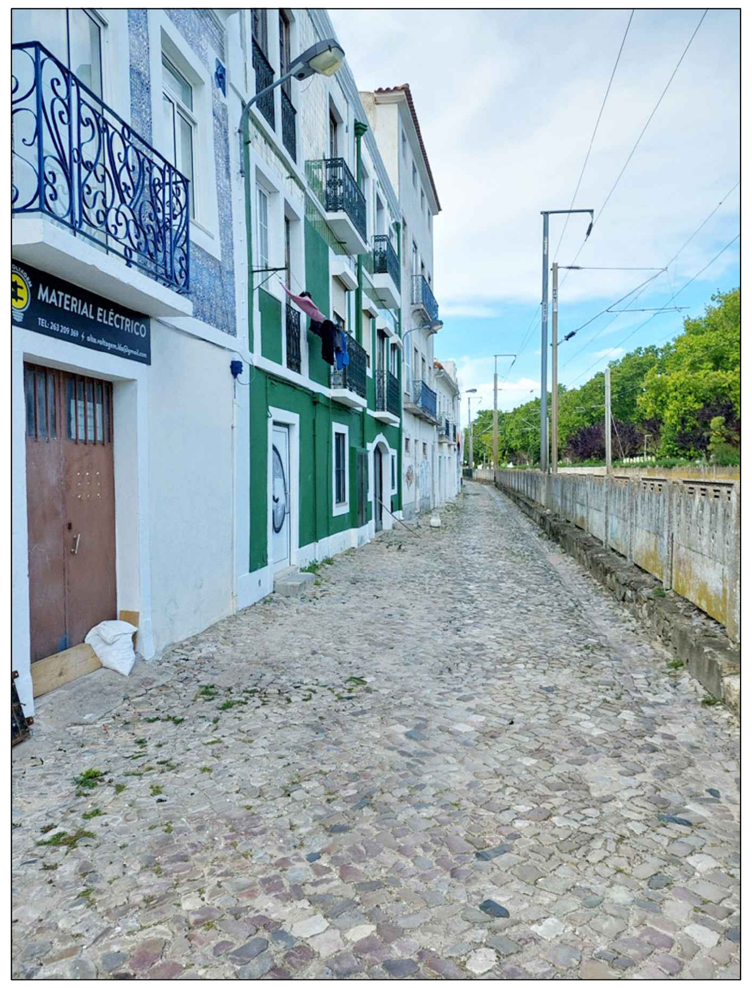
Situação Futura

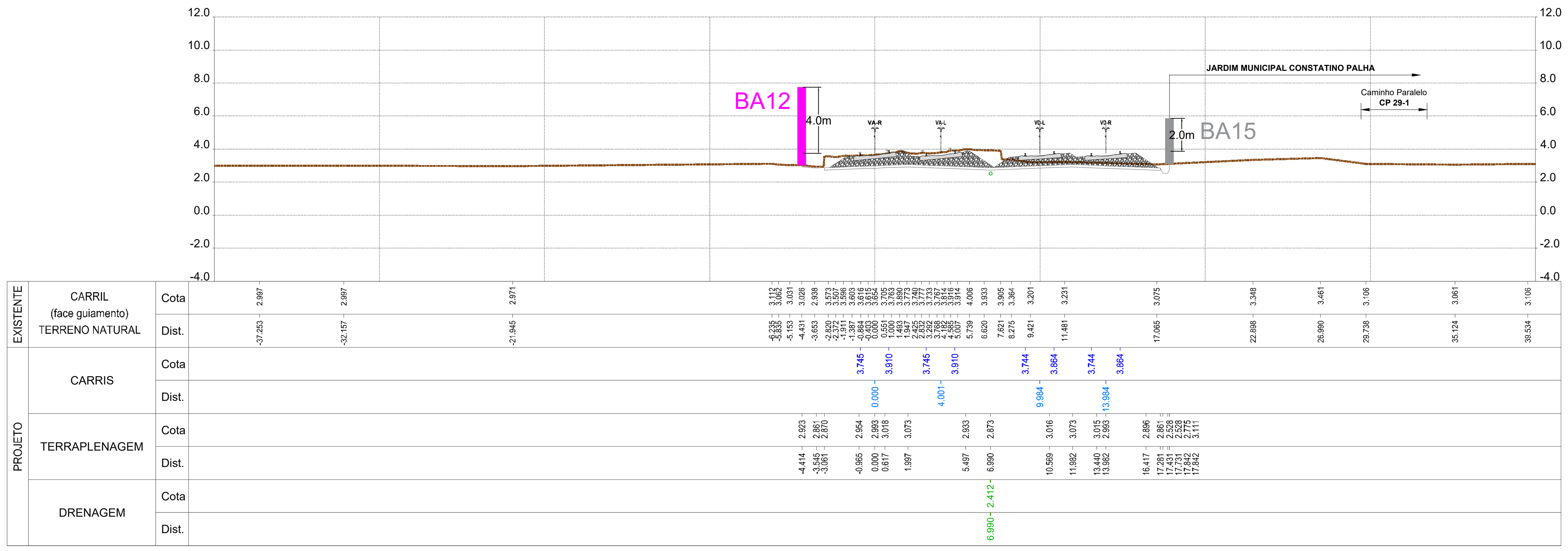




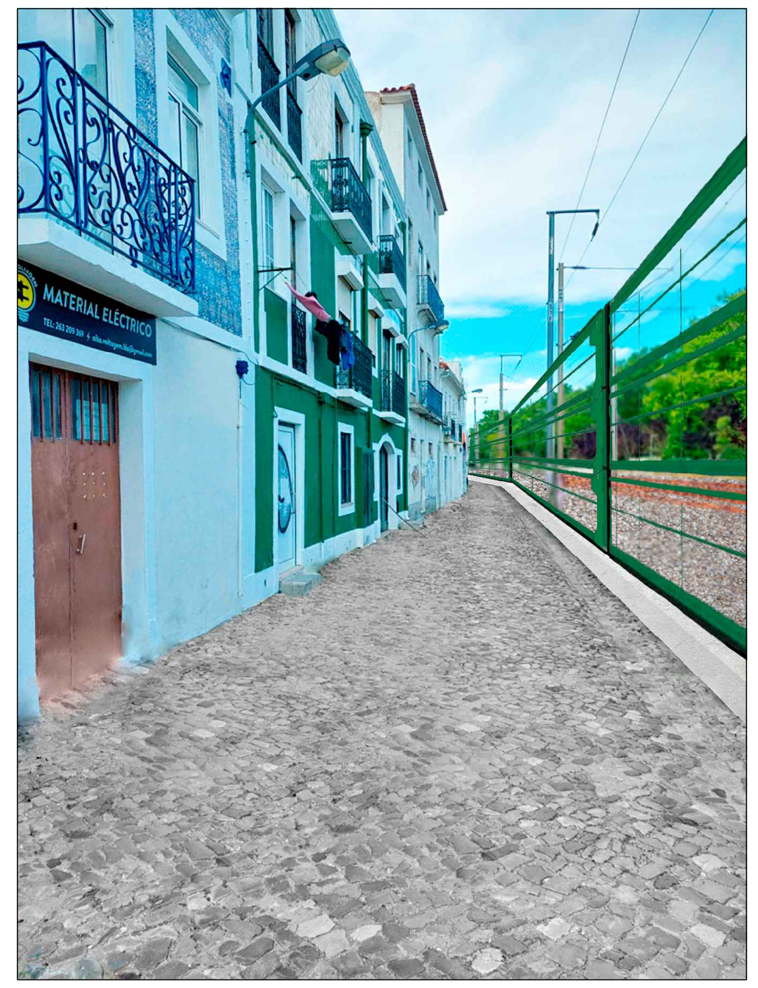
Pk 30+100.000
Km 30+104.027
P334







Pk 30+025.000
Km 30+031.562
P331



PF0204 - MODERNIZAÇÃO DO TROÇO ALVERCA / CASTANHEIRA DO RIBATEJO

LINHA DO NORTE - TROÇO ENTRE PK 21+749.991 E PK 34+203.214

Projeto de Execução

ILUSTRAÇÃO DA SITUAÇÃO FUTURA COM BARREIRA ACÚSTICA

BARREIRA BA12 - Rua da Praia
Situação Atual / Situação Futura
Km 30+031 e Km 30+104

0 5 10m
Escala:
1:250