

TABELA DE QUANTIDADES

SÍMBOLO	DESCRIÇÃO	QUANTID.
	CBUQ - VIA CARROÇÁVEL (M²)	20.460,00
	BASE - ACOSTAMENTO (M²)	4.299,98
	CBUQ - GOLA/ACESSO (M²)	291,18
	BASE - GOLA/ACESSO (M²)	49,08

LEGENDA SINALIZAÇÃO

SÍMBOLO	DESCRIÇÃO	QUANTID.
SINALIZAÇÃO HORIZONTAL		
	FAIXA BRANCA (M)	6.221,02
	FAIXA AMARELA CONTÍNUA (M)	4.676,67

SINALIZAÇÃO HORIZONTAL COM TACHAS

	TACHAS BIDIRECIONAIS AMARELAS (UNI.)	475
	TACHAS BIDIRECIONAIS BRANCAS (UNI.)	955

INTERFERENCIAS

	Árvores a remover (UNI.)	8
	Vegetação a remover (m²)	114,60
	Poste a remover (UNI.)	14

SINALIZAÇÃO VERTICAL DE REGULAMENTAÇÃO

	R-19 Velocidade máxima permitida	9
	R-19 Velocidade máxima permitida	6
	R-1 Parada obrigatória	3
	R-7 Proibido ultrapassar	8

SINALIZAÇÃO VERTICAL DE ADVERTÊNCIA

	A-31 Trânsito de tratores circulação de máquinas agrícolas ou tratores	12
	A-35 Trânsito Animais	6
	A-7b Indica via lateral à direita	3
	A-7a Indica via lateral à esquerda	3
	A-2a Indica curva acentuada à esquerda	4
	A-2b Indica curva acentuada à direita	5
	A-5a Indica duas curvas sucessivas em forma de "S"	5
	A-5b Indica duas curvas sucessivas em forma de "S"	2
	A-1a Curva acentuada à esquerda	1
	A-1b Curva acentuada à direita	1
	Placa 2,00x1,00 FIM DE ASFALTO A 100M	1

SINALIZAÇÃO VERTICAL - NOMES DE RUAS

	Placa informativa de nome de Rua (L: 2,00X0,50M)	1
	Placa informativa de nome de Rua (L: 2,00X0,50M)	1
	Placa informativa de nome de Rua (L: 2,00X0,50M)	1
	Placa informativa de nome de Rua (L: 2,00X0,50M)	1
	Placa informativa de nome de Rua (L: 2,00X0,50M)	1
	Placa informativa de nome de Rua (L: 2,00X0,50M)	1

REMOÇÃO DE CERCA E RECONSTRUÇÃO							
RM MERCEDES MINATTO SCARDUELLI EST 0+0,00 à 155+0,00							
LADO ESQUERDO				LADO DIREITO			
EST	EST	COMPRIMENTO	CERCA	EST	EST	COMPRIMENTO	CERCA
Início	Fim	[m]	[TIPO]	Início	Fim	[m]	[TIPO]
2+11,50	7+5,00	93,00	ARAME/5 FIOS/MADEIRA	0+4,00	2+14,50	50,50	ARAME/4 FIOS/MADEIRA
22+8,15	23+9,50	24,60	ARAME/4 FIOS/MADEIRA	44+0,00	45+18,50	38,50	ARAME/3 FIOS/MADEIRA
34+7,50	39+0,00	95,00	ARAME/2 FIOS/MADEIRA	74+9,00	81+10,00	141,00	ARAME/3 FIOS/MADEIRA
106+18,50	108+9,00	32,50	ARAME/3 FIOS/MADEIRA	88+13,50	90+11,50	38,06	ARAME/3 FIOS/MADEIRA
108+16,50	110+18,50	46,50	ARAME/3 FIOS/MADEIRA	102+10,00	106+13,50	82,80	ARAME/4 FIOS/MADEIRA
				107+14,50	108+14,50	20,80	ARAME/5 FIOS/MADEIRA
				111+16,00	114+5,50	49,50	ARAME/5 FIOS/MADEIRA
TOTAL [m]						712,76	

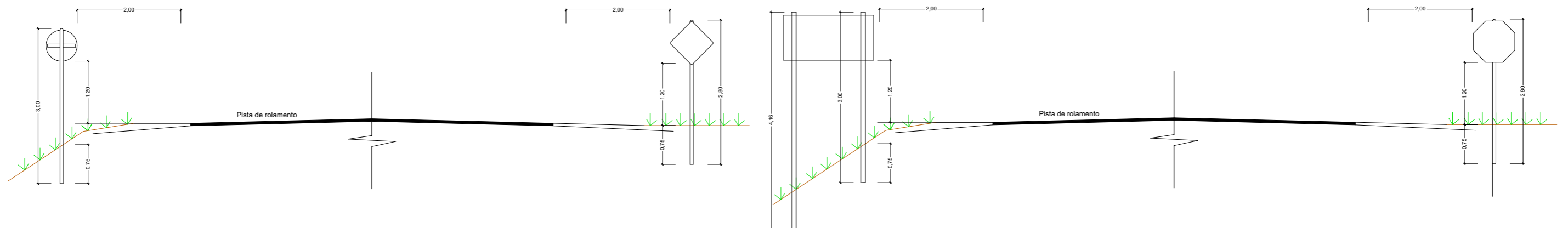
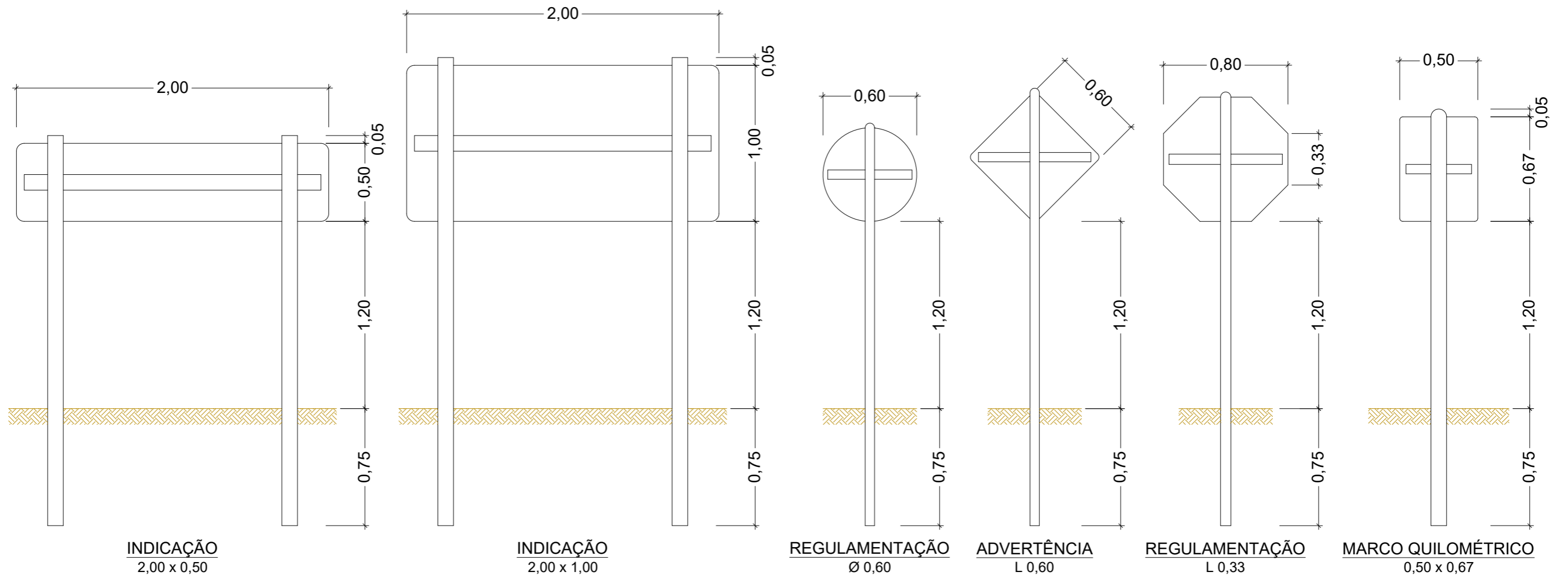
R.M. MERCEDES MINATTO SCARDUELLI - EST 0+0,00 À 155+0,00										
Pintura Amarela Eixo (12cm esp.)										
Tipo		Estaca inicial			Estaca final			Total Extensão (m)	Comp. pintura Padrão (m)	Comp. pintura Não Padrão (m)
Lado esquerdo	Lado Direito									
2 contínuas		0	+	0,00	21	+	0,00	420,00	840,00	
contínua / Tracejada 4-8-4		21	+	0,00	23	+	0,00	40,00	53,33	
Tracejada 4-8-4		23	+	0,00	52	+	0,00	580,00	193,33	
contínua / Tracejada 4-8-4		52	+	0,00	54	+	0,00	40,00	53,33	
2 contínuas		54	+	0,00	90	+	0,00	720,00	1.440,00	
contínua / Tracejada 4-8-4		90	+	0,00	92	+	0,00	40,00	53,33	
Tracejada 4-8-4		92	+	0,00	96	+	0,00	80,00	26,67	
contínua / Tracejada 4-8-4		96	+	0,00	98	+	0,00	40,00	53,33	
2 contínuas		98	+	0,00	114	+	0,00	320,00	640,00	
Tracejada 1-1-1		114	+	0,00	115	+	0,00	20,00	10,00	
2 contínuas		115	+	0,00	118	+	0,00	60,00	120,00	
contínua / Tracejada 4-8-4		118	+	0,00	120	+	0,00	40,00	53,33	
Tracejada 4-8-4		120	+	0,00	127	+	0,00	140,00	46,67	
contínua / Tracejada 4-8-4		127	+	0,00	129	+	0,00	40,00	53,33	
2 contínuas		129	+	0,00	155	+	0,00	520,00	1.040,00	
Total								3.100,00	4.676,67	0,00
COMPRIMENTO TOTAL DE PINTURA [M]								4.676,67		

R.M. MERCEDES MINATTO SCARDUELLI - EST 0+0,00 À 155+0,00										
Pintura Branca Bordo (12cm esp.)										
Lado	Tipo	Estaca inicial			Estaca final			Total Extensão	Comp. pintura Padrão (m)	Comp. pintura Não
	VARIAÇÕES									
DE	2 contínuas	0	+	0,00	50	+	12,45	1.012,45	2.024,90	
D	1 contínuas	50	+	11,05	51	+	10,50	19,45	19,45	21,21
DE	2 contínuas	51	+	10,50	113	+	16,70	1.246,20	2.492,40	
D	1 contínuas	113	+	16,70	115	+	0,00	23,30	23,30	29,83
DE	2 contínuas	115		0,00	121	+	14,67	134,67	269,34	
E	1 contínuas	121		14,67	123	+	1,63	26,96	26,96	36,89
DE	2 contínuas	123		1,63	155	+	0,00	638,37	1.276,74	
Total								3.101,40	6.133,09	87,93
6.221,02										

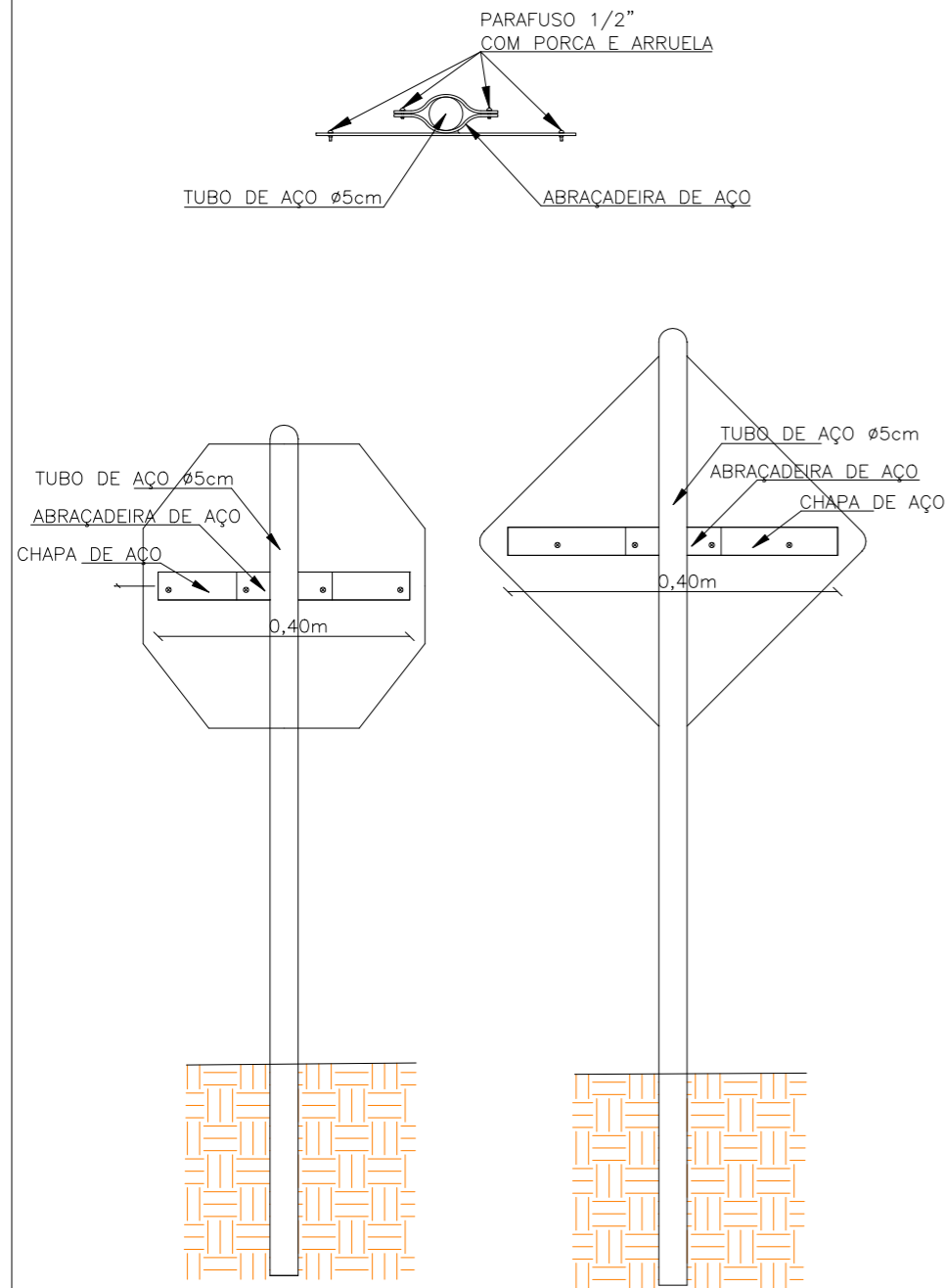
POSIÇÕES DA SINALIZAÇÃO VERTICAL			
R.M. MERCEDES MINATTO SCARDUELLI - EST 0+0,00 À 155+0,00			
LADO ESQUERDO		LADO DIREITO	
EST	TIPO	EST	TIPO
14+0,00	A-5a	1+0,00	A-35
16+10,00	A-31	2+0,00	R-19 - 40
20+0,00	R-19 - 40	5+0,00	A-5a
23+0,00	R-7	7+10,00	A-31
26+0,00	A-35	20+0,00	R-19 - 50
46+0,00	A-31	26+0,00	A-35
50+0,00	R-19 - 50	29+0,00	A-31
51+0,00	R-1	45+0,00	R-19 - 40
52+0,00	A-35	46+0,00	A-2a
53+0,00	NOME RUA	48+0,00	A-7a
54+0,00	A-7b	49+0,00	NOME RUA
55+0,00	A-2b	52+0,00	R-7
61+0,00	A-2b	53+0,00	A-31
72+10,00	A-5a	55+0,00	A-2a
75+0,00	R-19 - 40	65+0,00	A-5a
79+0,00	A-31	74+0,00	A-5b
85+0,00	A-5b	75+0,00	R-19 - 50
92+0,00	R-7	80+0,00	A-35
98+0,00	R-19 - 50	84+0,00	A-31
104+10,00	A-31	96+0,00	R-7
106+0,00	A-2a	97+0,00	R-19 - 40
108+0,00	R-19 - 40	98+0,00	A-2b
114+0,00	R-1	110+0,00	A-2b
115+0,00	A-35	111+0,00	A-7a
116+0,00	NOME RUA	112+0,00	NOME RUA
117+0,00	A-7b	114+10,00	A-31
118+0,00	A-2a	115+10,00	R-19 - 50
120+0,00	R-7	120+0,00	A-7b
124+0,00	NOME RUA	121+0,00	NOME RUA
125+0,00	A-7a	123+0,00	R-1
132+0,00	R-19 - 50	127+0,00	R-7
138+0,00	A-1a	130+0,00	R-19 - 40
141+0,00	A-31	131+0,00	A-1b
146+0,00	R-19 - 40	139+0,00	A-31
148+0,00	R-7	142+0,00	R-7
150+0,00	A-31	146+0,00	R-19 - 40
153+0,00	A-2b	147+0,00	A-5a
		150+0,00	2,00x1,00

R.M. MERCEDES MINATTO SCARDUELLI - EST 0+0,00 À 155+0,00											
Tacha (9,5x8cm) Eixo e Bordo											
LOCAL	CADENCIA	ESTACA INICIAL			ESTACA FINAL			DIST.	UN. PADRÃO	UN. NÃO PADRÃO	TOTAL
EIXO	6 x 6	0	+	0,00	21	+	0,00	420	70		70
EIXO	8 x 8	21	+	0,00	54	+	0,00	660	83		83
EIXO	6 x 6	54	+	0,00	90	+	0,00	720	120		120
EIXO	8 x 8	90	+	0,00	98	+	0,00	160	20		20
EIXO	6 x 6	98	+	0,00	118	+	0,00	400	67		67
EIXO	8 x 8	118	+	0,00	129	+	0,00	220	28		28
EIXO	6 x 6	129	+	0,00	155	+	0,00	520	87		87
LD	6 x 6	0	+	0,00	21	+	0,00	420	70		70
LD	8 x 8	21	+	0,00	54	+	0,00	660	83		83
LD	6 x 6	54	+	0,00	90	+	0,00	720	120		120
LD	8 x 8	90	+	0,00	98	+	0,00	160	20		20
LD	6 x 6	98	+	0,00	118	+	0,00	400	67		67
LD	8 x 8	118	+	0,00	121	+	15,25	75,25	10		10
LD	Sem tachão	121	+	14,67	123	+	1,63	26,96	0	5	5
LD	8 x 8	123	+	1,63	129	+	0,00	118,37	15		15
LD	6 x 6	129	+	0,00	155	+	0,00	520	87		87
LE	6 x 6	0	+	0,00	21	+	0,00	420	70		70
LE	8 x 8	21	+	0,00	50	+	12,45	592,45	75		75
LE	Sem tachão	50	+	11,05	51	+	10,50	19,45	0	3	3
LE	8 x 8	51	+	10,50	54	+	0,00	49,5	7		7
LE	6 x 6	54	+	0,00	90	+	0,00	720	120		120
LE	8 x 8	90	+	0,00	98	+	0,00	160	20		20
LE	6 x 6	98	+	0,00	113	+	16,70	316,7	53		53
LE	Sem tachão	113	+	16,70	115	+	0,00	23,3	0	5	5
LE	6 x 6	115	+	0,00	118	+	0,00	60	10		10
LE	8 x 8	118	+	0,00	129	+	0,00	220	28		28
LE	6 x 6	129	+	0,00	155	+	0,00	520	87		87
QUANT. POR FAIXA		LE	478	EIXO	475	LD	477	TOTAL		1430	
TACHAS BRANCAS BORDO (UN)		955	TACHAS AMARELA EIXO (UN)		475	TOTAL (Unidades)		1430			

DETALHE DAS ALTURAS E POSICIONAMENTO DE PLACAS FIXAÇÃO EM SUPORTE METÁLICO



DETALHE DE FIXAÇÃO DAS PLACAS



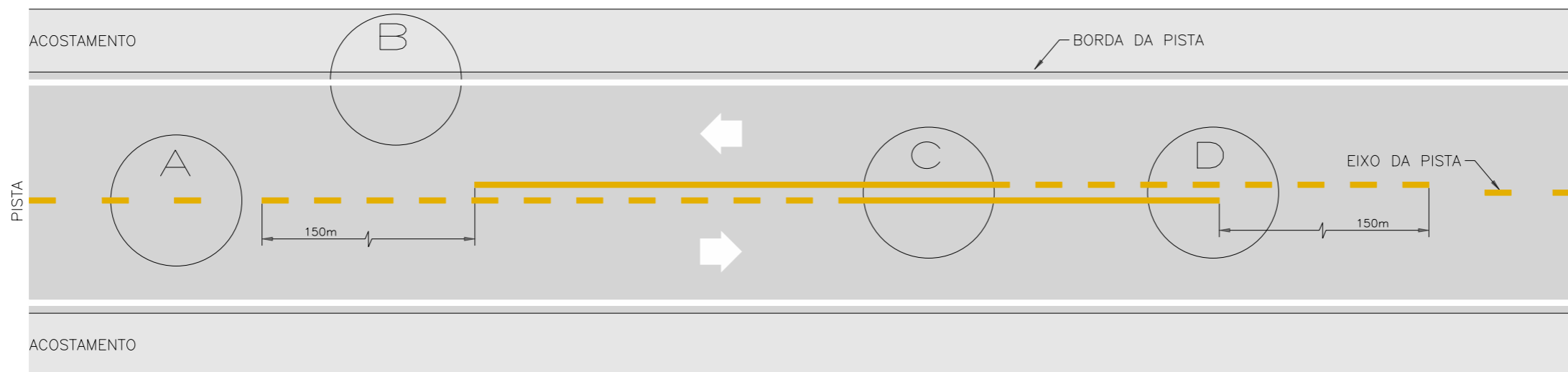
SINALIZAÇÃO VERTICAL PLACAS DE REGULAMENTAÇÃO, ADVERTÊNCIA E INDICAÇÃO

MODELO DAS PLACAS	CÓDIGO	PINTURAS	DIMEN.
	R-19	FUNDO BRANCO LETRAS PRETAS ORLA VERMELHA	D=0,60
	R-1	FUNDO VERMELHO LETRA BRANCA ORLA BRANCA	L=0,33
	R-7	FUNDO BRANCO SIMBOLO PRETO ORLA VERMELHA	D=0,60
		FUNDO VERDE ORLA BRANCA SIMBOLO BRANCO	A=0,50 L=1,00
		FUNDO VERDE ORLA BRANCA SIMBOLO BRANCO	A=0,50 L=1,00
		FUNDO VERDE ORLA BRANCA SIMBOLO BRANCO	A=0,50 L=1,00
		FUNDO VERDE ORLA BRANCA SIMBOLO BRANCO	A=0,50 L=1,00
		FUNDO VERDE ORLA BRANCA SIMBOLO BRANCO	A=0,50 L=1,00
		FUNDO VERDE ORLA BRANCA SIMBOLO BRANCO	A=0,50 L=1,00

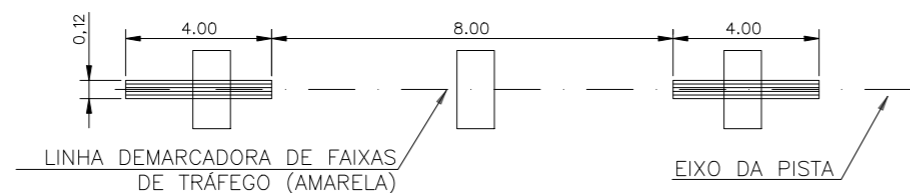
SINALIZAÇÃO VERTICAL PLACAS DE REGULAMENTAÇÃO, ADVERTÊNCIA E INDICAÇÃO

MODELO DAS PLACAS	CÓDIGO	PINTURAS	DIMEN.
	A-31	FUNDO AMARELO ORLA PRETA SIMBOLO PRETO	L=0,60
	A-35	FUNDO AMARELO ORLA PRETA SIMBOLO PRETO	L=0,60
	A-7a A-7b	FUNDO AMARELO ORLA PRETA SIMBOLO PRETO	L=0,60
	A-2a A-2b	FUNDO AMARELO ORLA PRETA SIMBOLO PRETO	L=0,60
	A-5a A-5b	FUNDO AMARELO ORLA PRETA SIMBOLO PRETO	L=0,60
	A-1a A-1b	FUNDO AMARELO ORLA PRETA SIMBOLO PRETO	L=0,60
		FUNDO AMARELO ORLA PRETA TEXTO PRETO	L=2,00 L=1,00

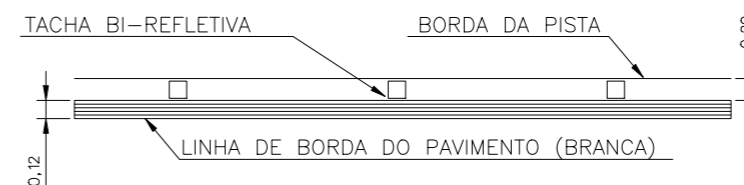
PISTA SIMPLES – DOIS SENTIDOS DE TRÁFEGO



DETALHE A



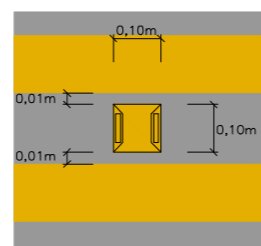
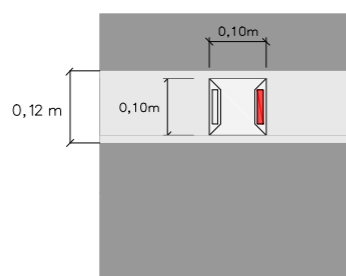
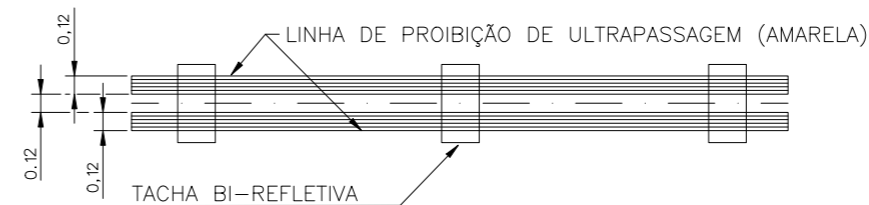
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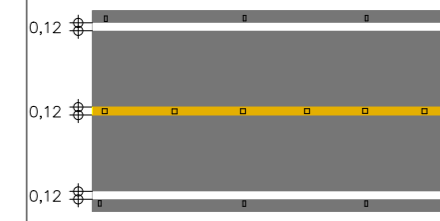
DETALHE D



DETALHE C

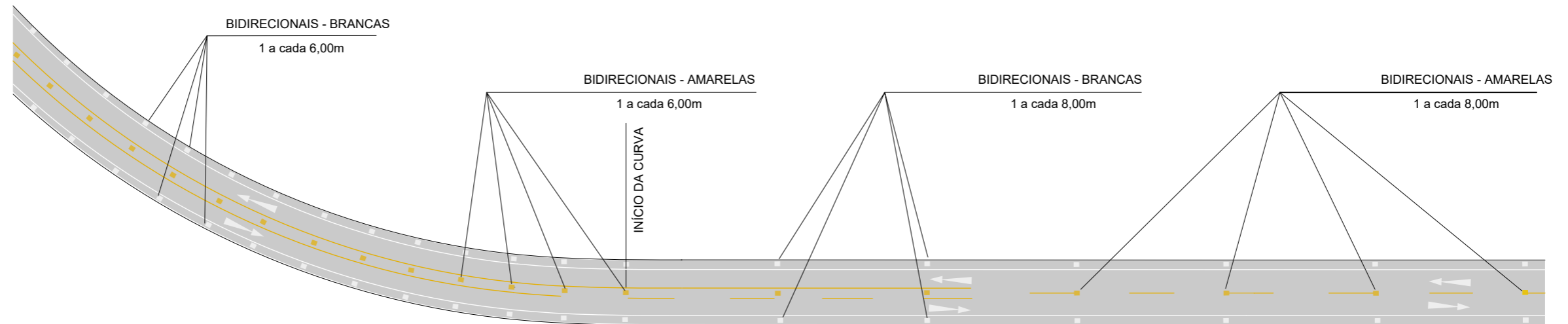


DETALHE DA FAIXA CONTÍNUA

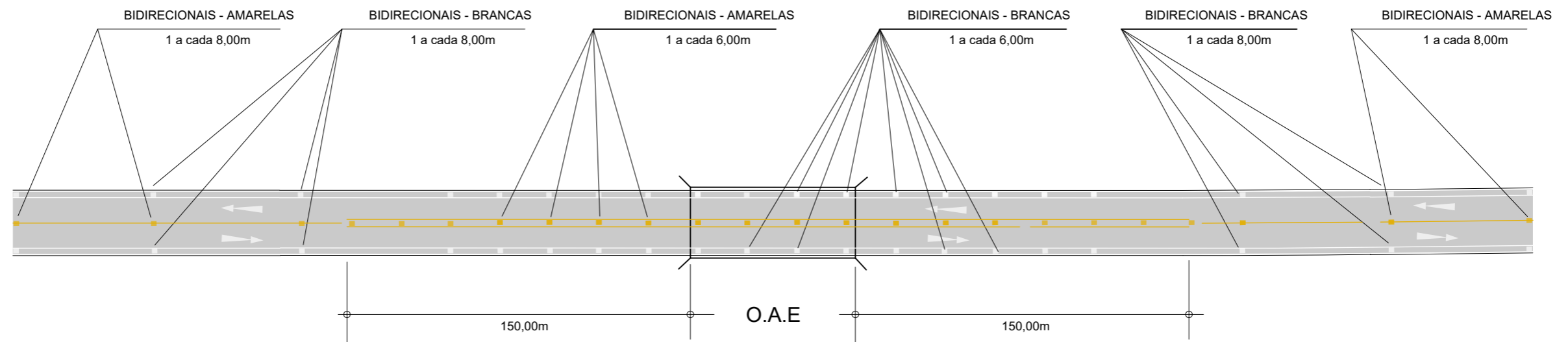


DISPOSIÇÃO E CORES DAS TACHAS

1) EM CURVAS E RETAS



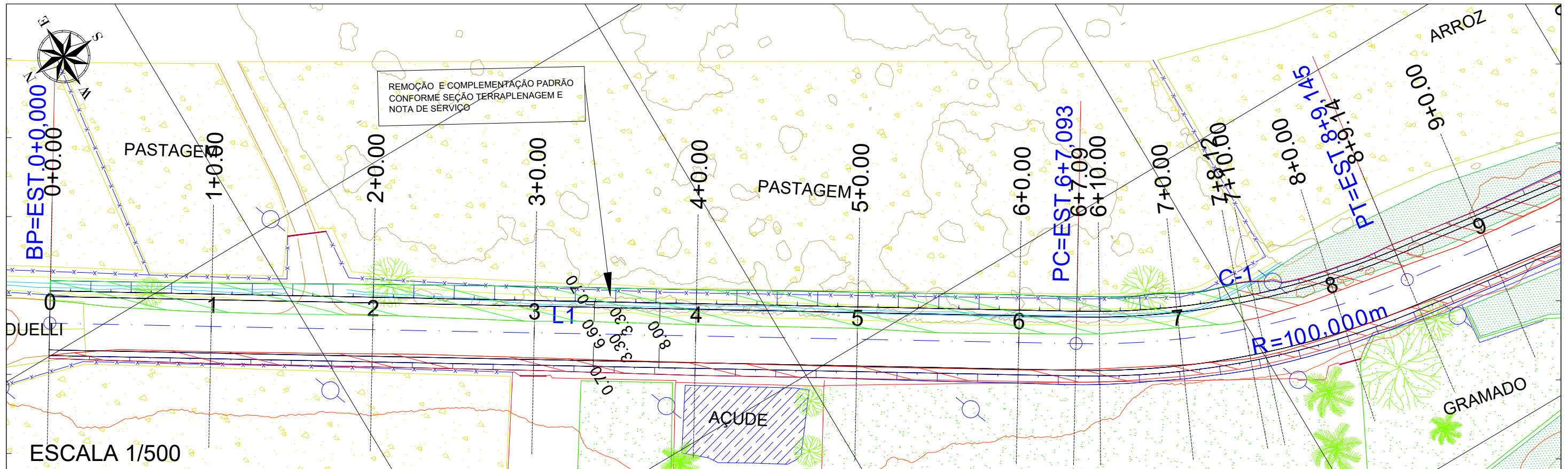
2) EM OBRAS DE ARTE ESPECIAL



PROJETO GEOMÉTRICO

-- Planta e Perfil Longitudinal

-- Tabelas de Volumes e Elementos Geométricos

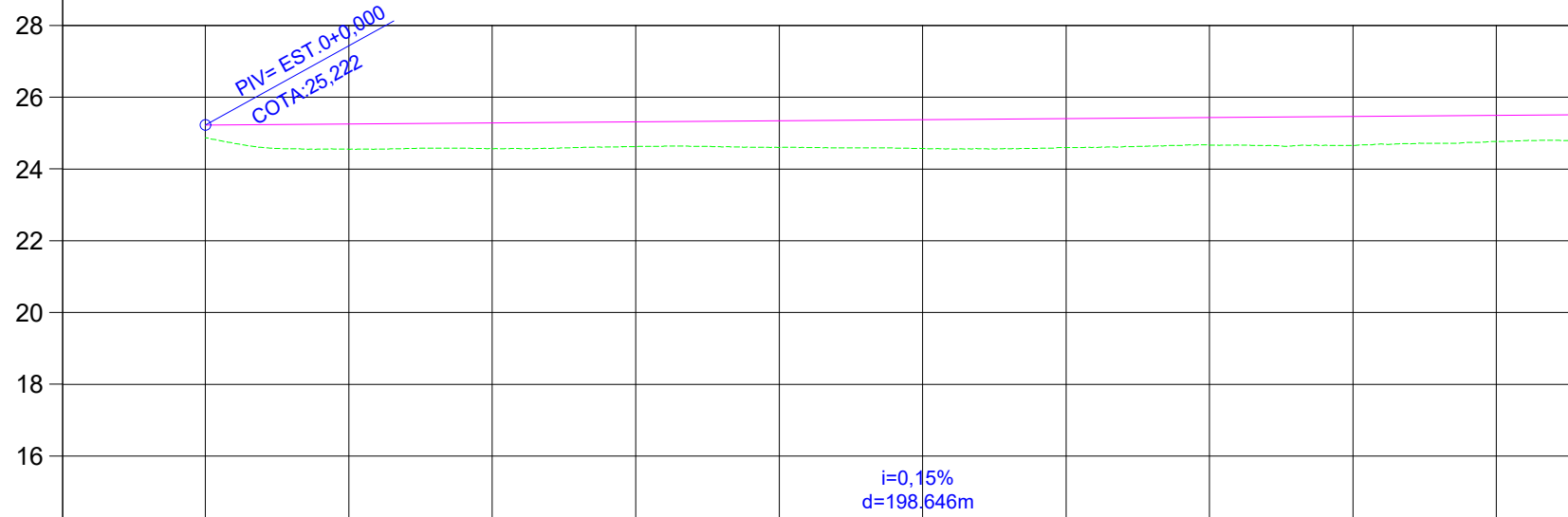


ESCALA 1/500

PERFIL ALI - RM MERCEDES MINATTO

639300.0000

639250.0000



COTAS TERRENO/PROJETO	24,87	25,222	24,55	25,253	24,56	25,283	24,62	25,313	24,60	25,343	24,57	25,374	24,60	25,404	24,67	25,434	24,66	25,465	24,77	25,495
ESTAQUEAMENTO	0	1	2	3	4	5	6	7	8	9										
PLANIMETRIA	TANGENTE L=127.093													R=100.000 D=42.052				TAN		

ESCALA 1/1.000



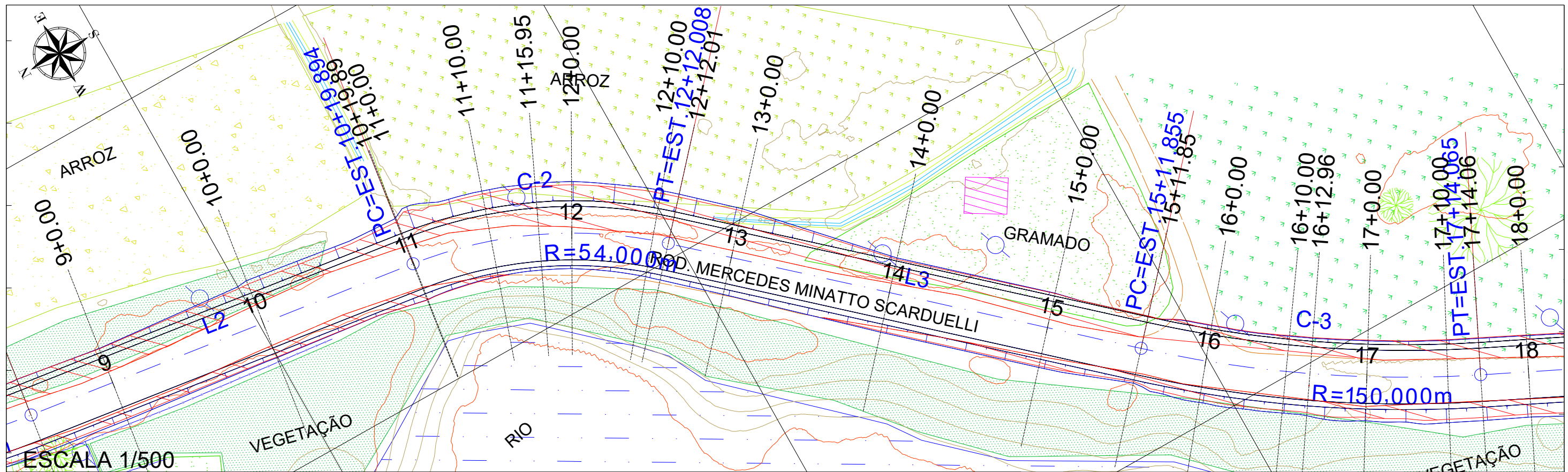
Autor do projeto:
BRUNO FRIGO PASINI
 ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
 1 / 18

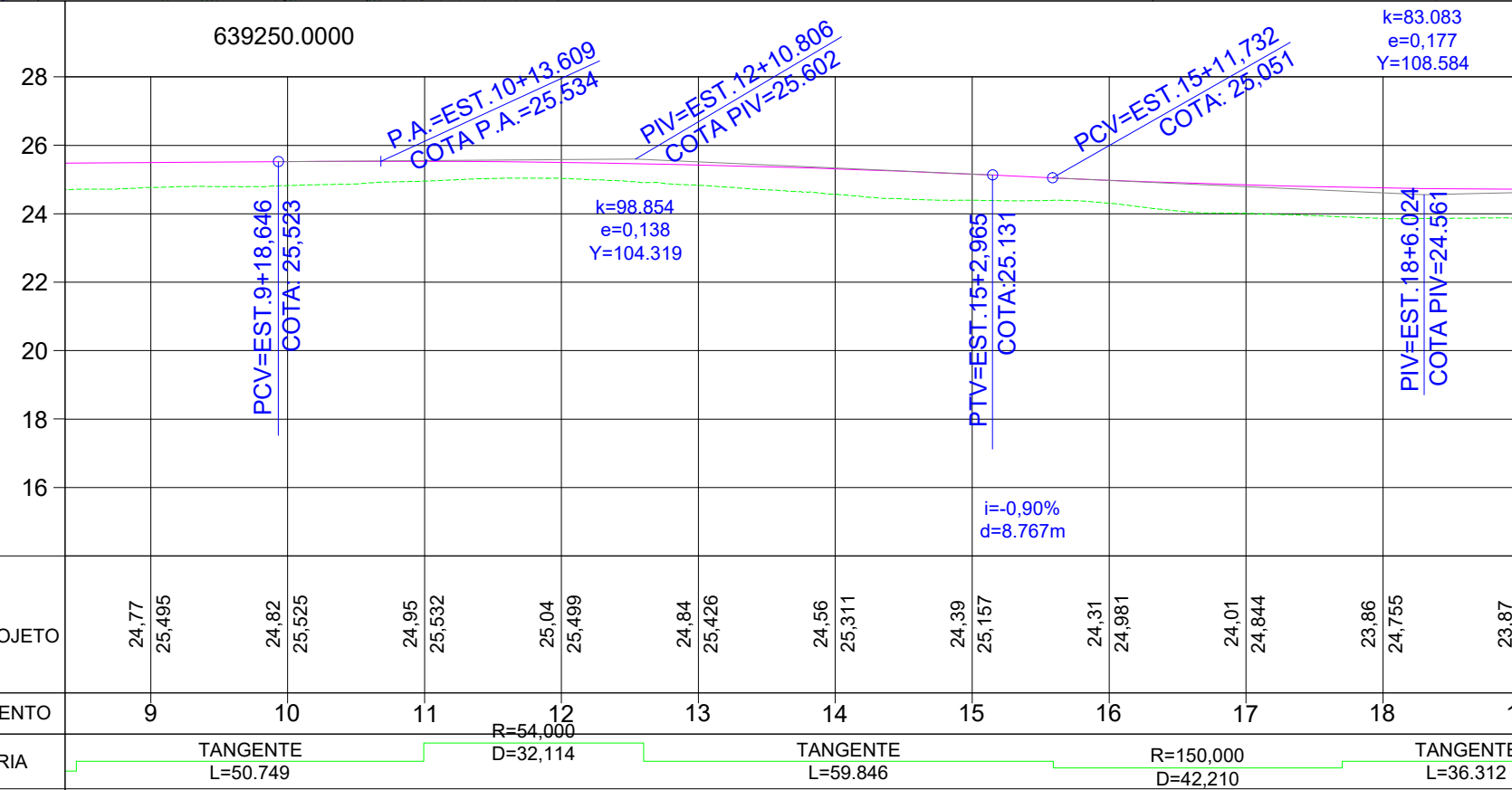
Obra
R.M. MERCEDES MINATTO SCARDUELLI

Conteúdo
PROJETO GEOMETRICO

Local
 R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC



ESCALA 1/500



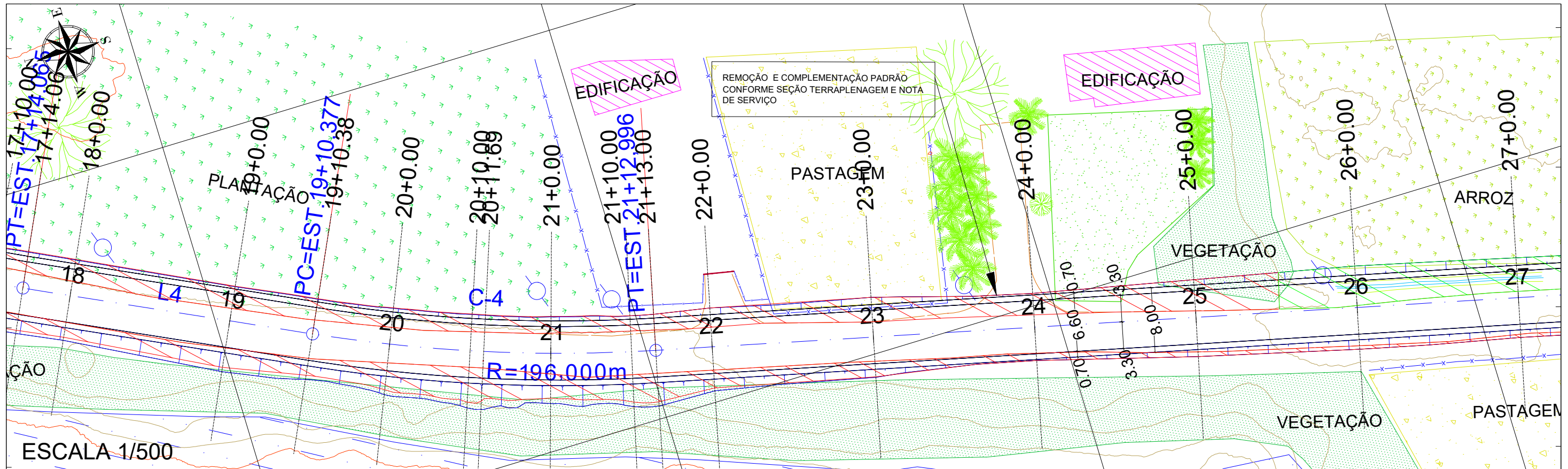
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COTAS TERRENO/PROJETO	24,77 25,495	24,82 25,525	24,95 25,532	25,04 25,499	24,84 25,426	24,56 25,311	24,39 25,157	24,31 24,981	24,01 24,844	23,86 24,755	23,87
ESTAQUEAMENTO	9	10	11	12	13	14	15	16	17	18	19
PLANIMETRIA	TANGENTE L=50,749		R=54,000 D=32,114		TANGENTE L=59,846			R=150,000 D=42,210		TANGENTE L=36,312	

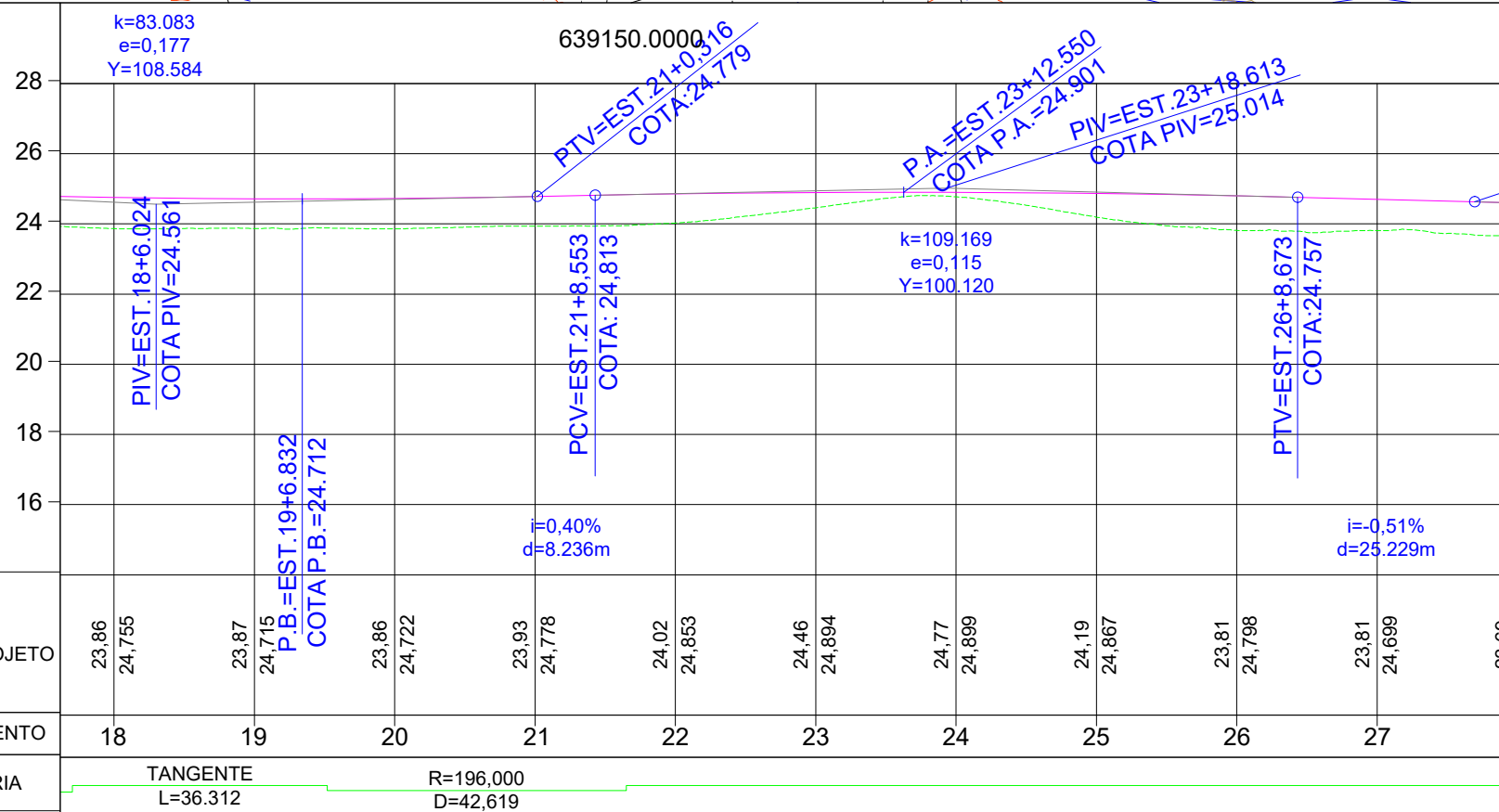
ESCALA 1/1.000



Autor do projeto: BRUNO FRIGO PASINI ENGENHEIRO CIVIL - CREA/SC 137.007-9		Obra R.M. MERCEDES MINATTO SCARDUELLI
Prancha: 2 / 18		Conteúdo PROJETO GEOMETRICO
		Local R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC



ESCALA 1/500



ESCALA 1/1.000



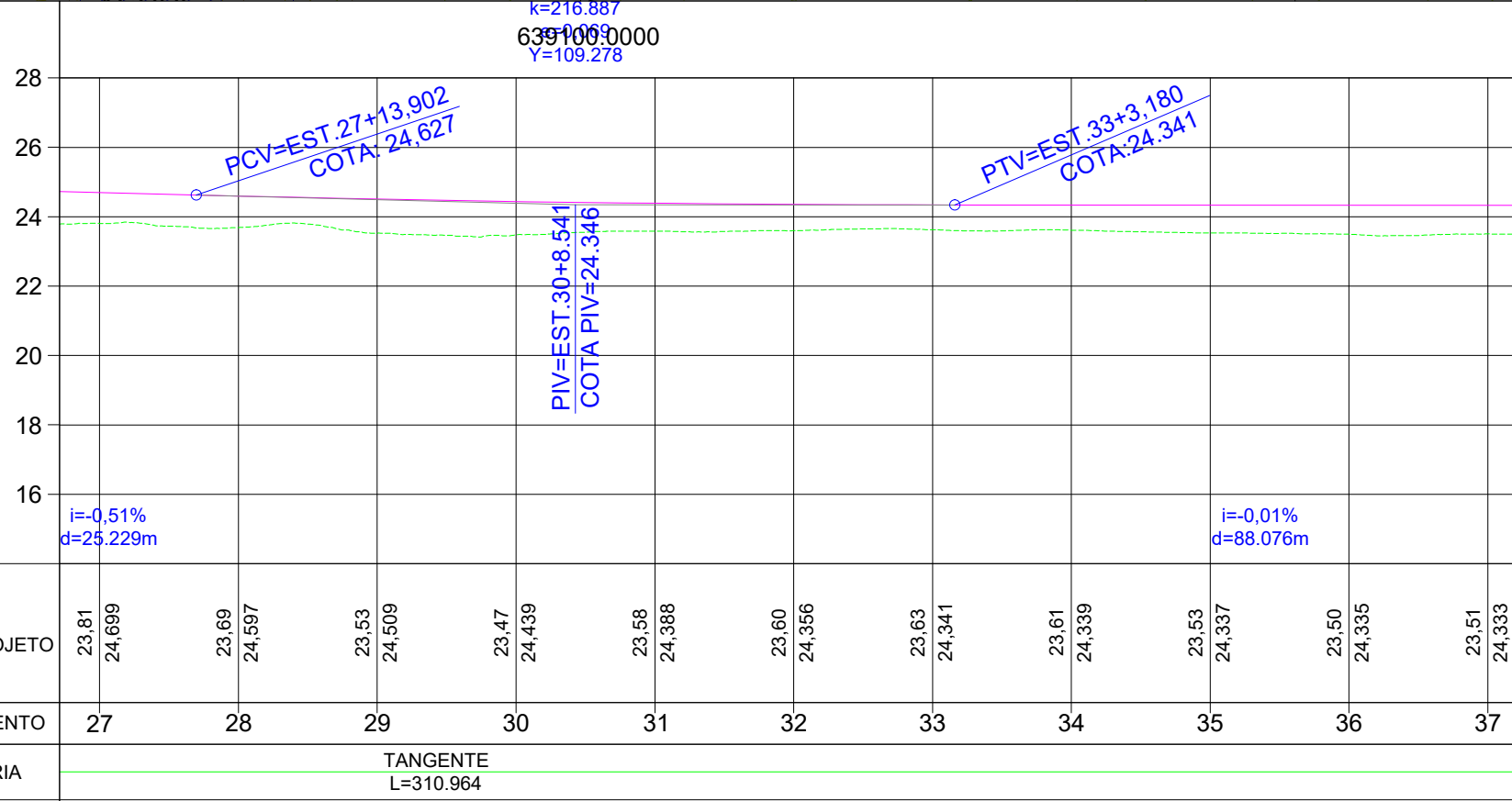
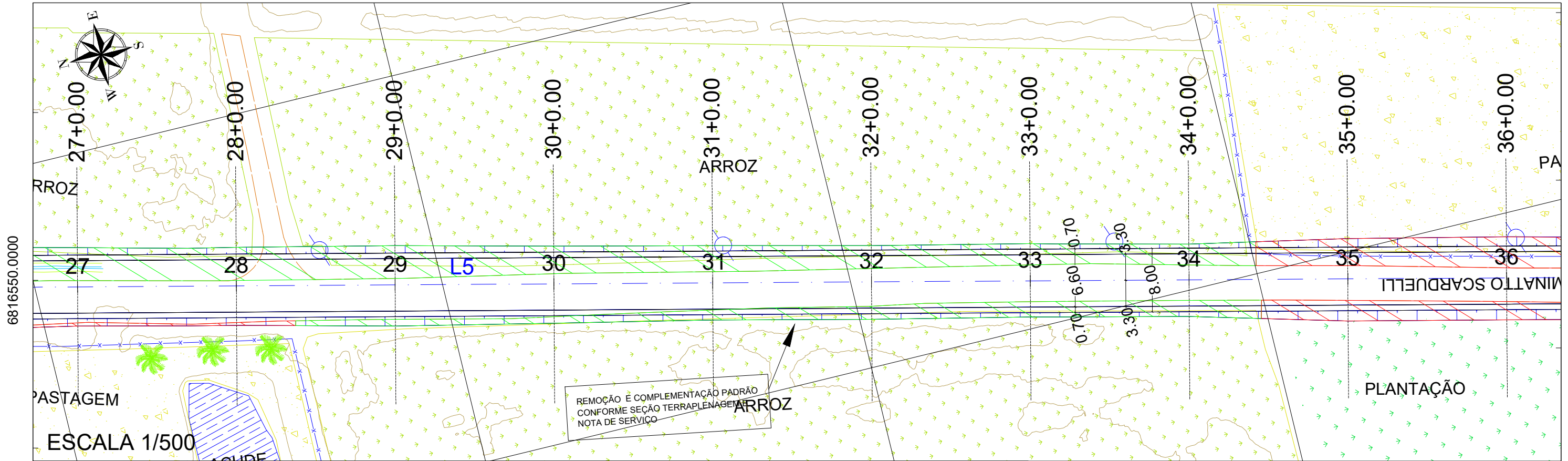
Autor do projeto:
BRUNO FRIGO PASINI
ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
3 / 18

Obra
R.M. MERCEDES MINATTO SCARDUELLI

Conteúdo
PROJETO GEOMETRICO

Local
R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC



COTAS TERRENO/PROJETO	23.81 24.699	23.69 24.597	23.53 24.509	23.47 24.439	23.58 24.388	23.60 24.356	23.63 24.341	23.61 24.339	23.53 24.337	23.50 24.335	23.51 24.333
ESTAQUEAMENTO	27	28	29	30	31	32	33	34	35	36	37
PLANIMETRIA	TANGENTE L=310.964										

ESCALA 1/1.000



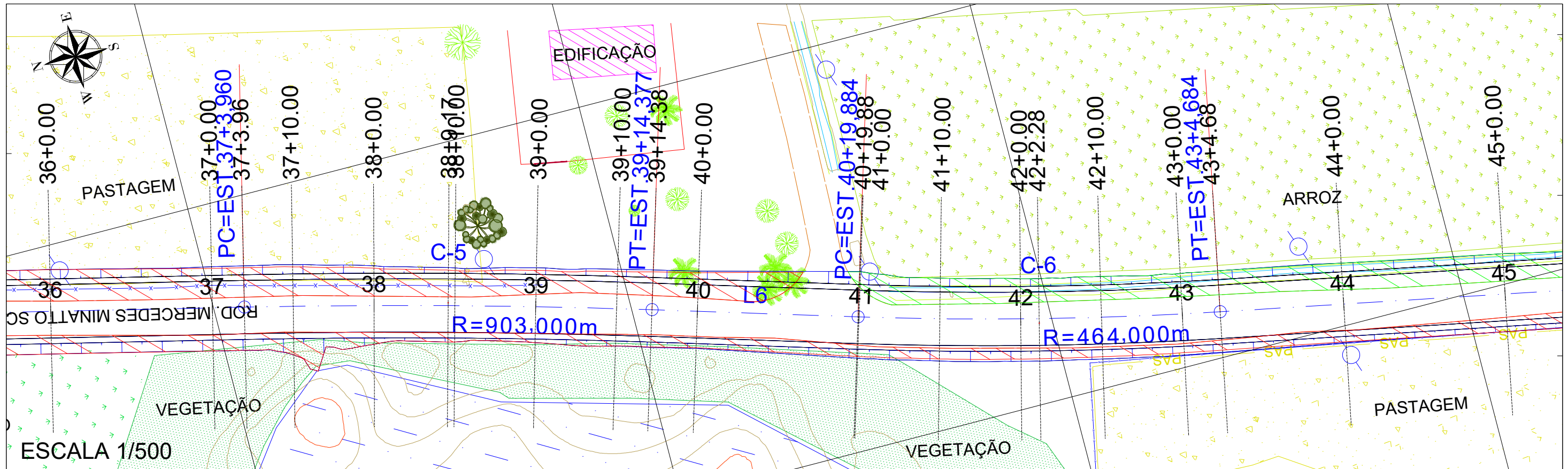
Autor do projeto:
BRUNO FRIGO PASINI
ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
4 / 18

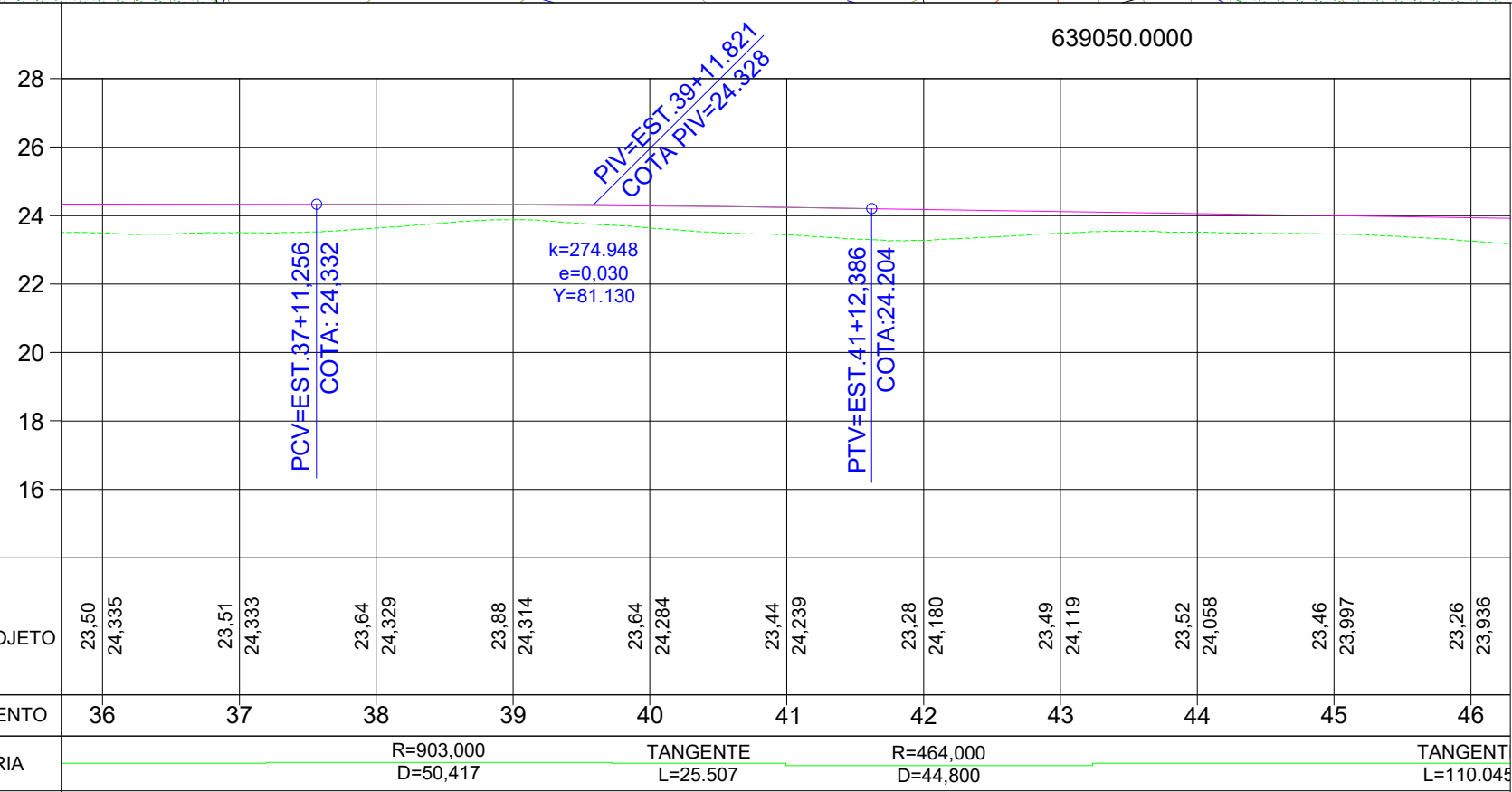
Obra
R.M. MERCEDES MINATTO SCARDUELLI

Conteúdo
PROJETO GEOMETRICO

Local
R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC



ESCALA 1/500



ESCALA 1/1.000



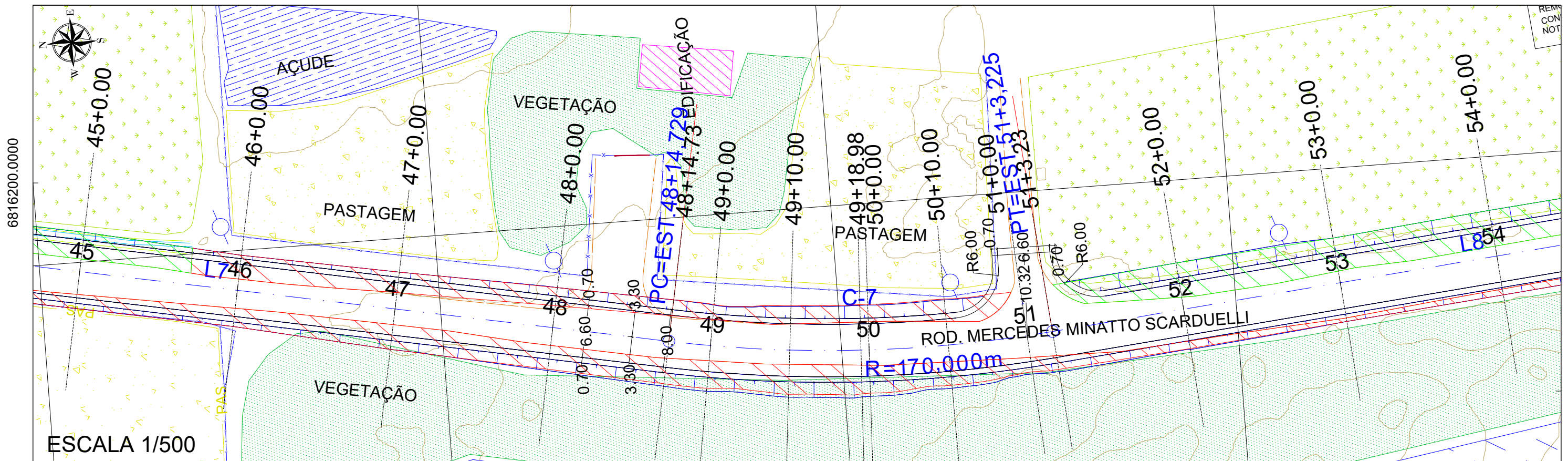
Autor do projeto:
BRUNO FRIGO PASINI
ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
5 / 18

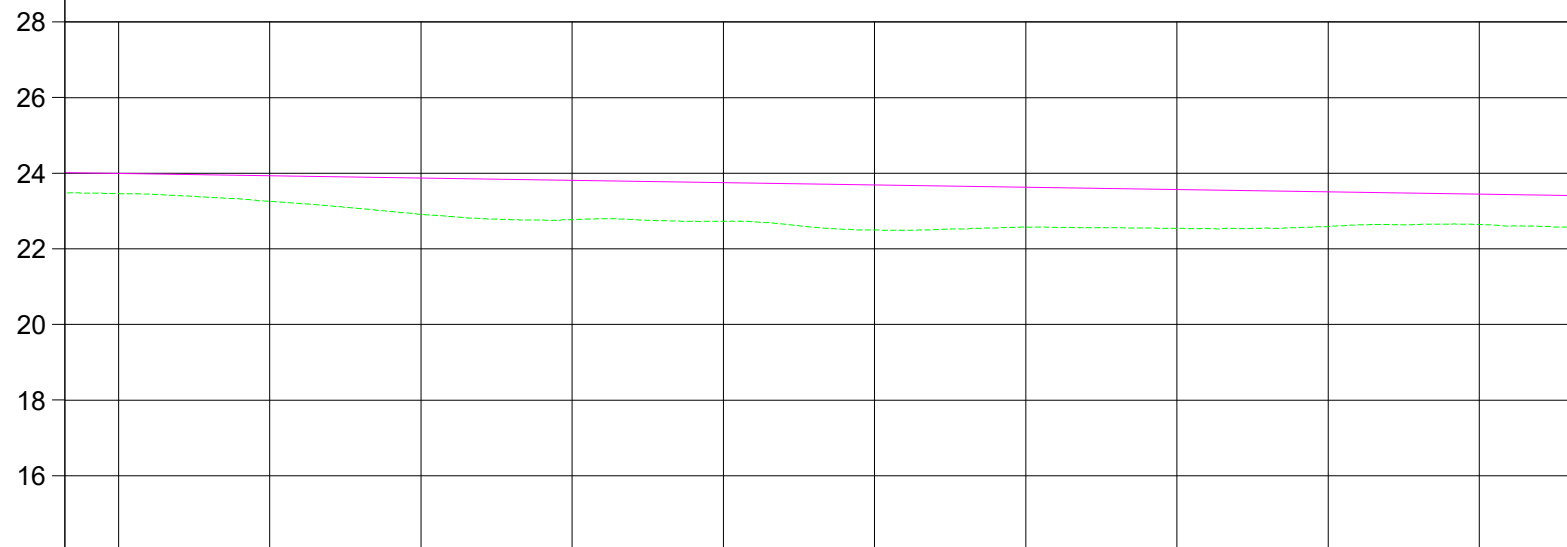
Obra
R.M. MERCEDES MINATTO SCARDUELLI

Conteúdo
PROJETO GEOMETRICO

Local
R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC



ESCALA 1/500



COTAS TERRENO/PROJETO	23,46 23,997	23,26 23,936	22,91 23,875	22,77 23,814	22,73 23,753	22,50 23,692	22,57 23,631	22,54 23,570	22,59 23,509	22,64 23,448
ESTAQUEAMENTO	45	46	47	48	49	50	51	52	53	54
PLANIMETRIA	TANGENTE L=110.045			R=170.000 D=48.496				TANGENTE L=110.653		

ESCALA 1/1.000



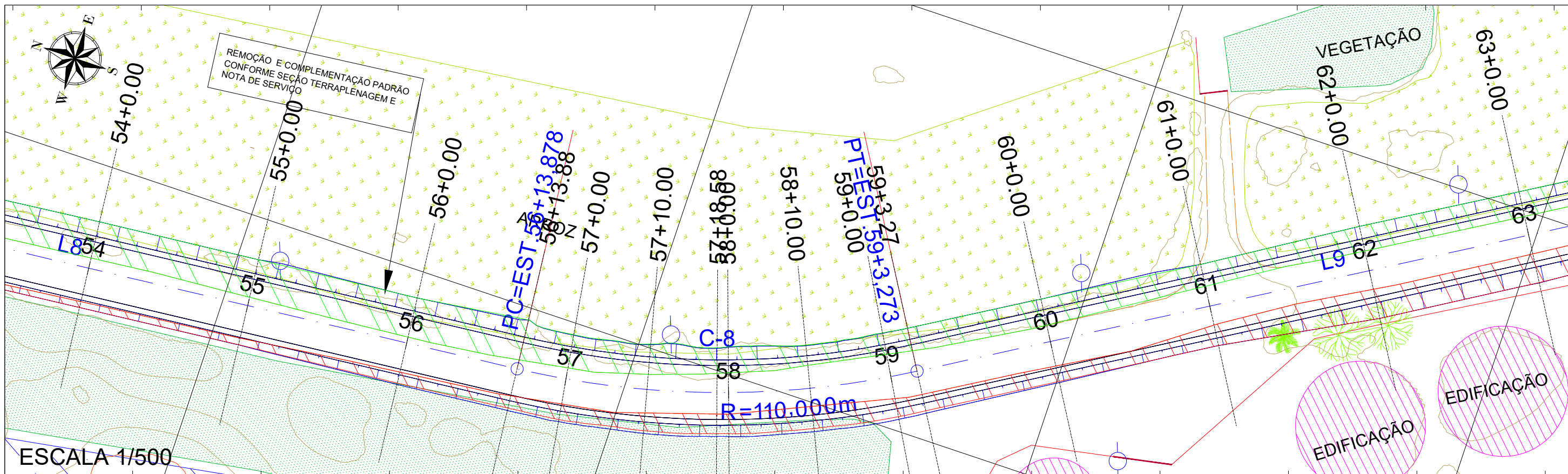
Autor do projeto:
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Prancha:
6 / 18

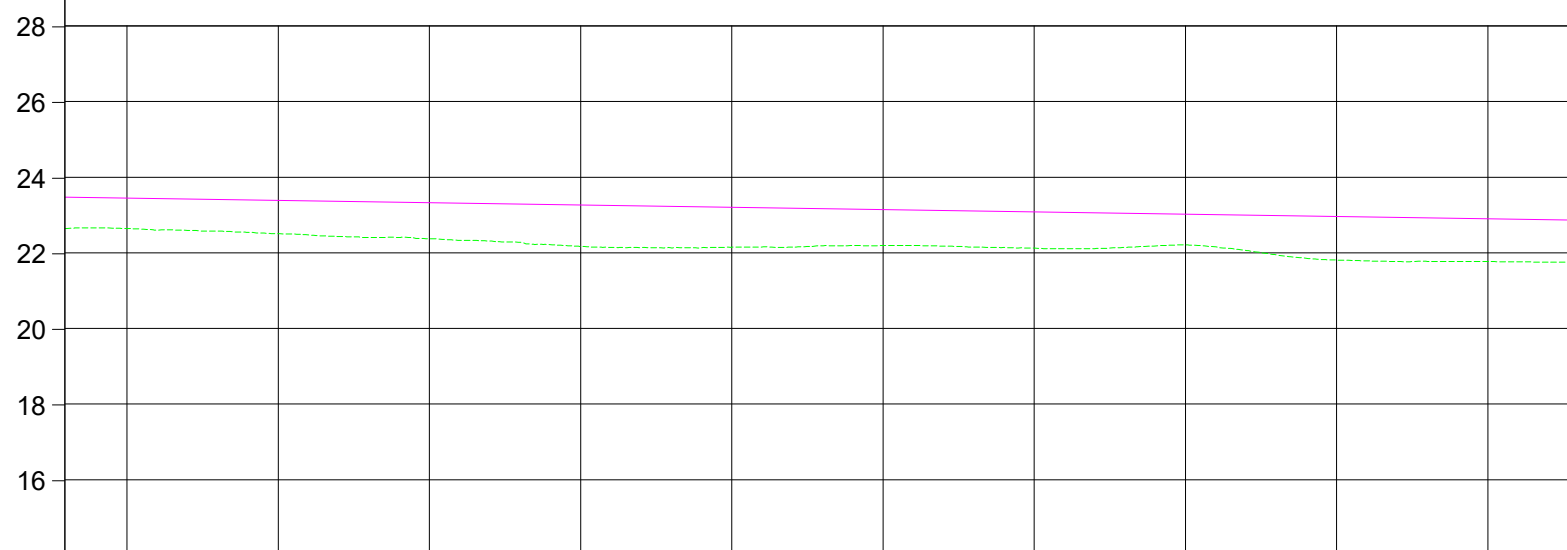
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COTAS TERRENO/PROJETO	22,64 23,448	22,50 23,387	22,37 23,326	22,17 23,265	22,15 23,203	22,19 23,142	22,13 23,081	22,21 23,020	21,81 22,959	21,77 22,898
ESTAQUEAMENTO	54	55	56	57	58	59	60	61	62	63
PLANIMETRIA	TANGENTE L=110.653			R=110.000 D=49.394			TANGENTE L=105.387			

ESCALA 1/1.000



Autor do projeto:
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Prancha:
7 / 18

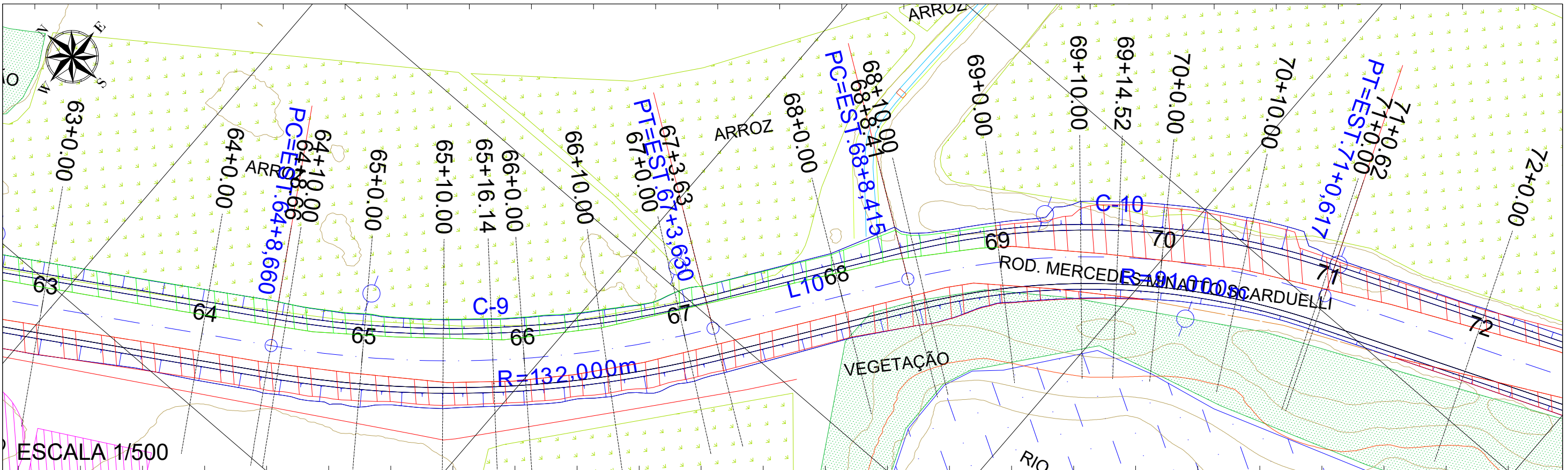
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R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC

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ESCALA 1/500

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COTAS TERRENO/PROJETO	21,77 22,898	21,73 22,887	21,59 22,776	21,51 22,715	21,51 22,654	21,49 22,593	21,59 22,532	21,62 22,471	21,76 22,410	21,77 22,349
ESTAQUEAMENTO	63	64	65	66	67	68	69	70	71	72
PLANIMETRIA	R=132.000 D=54,970			TANGENTE L=24,785		R=91,000 D=52,202				

ESCALA 1/1.000



Autor do projeto:
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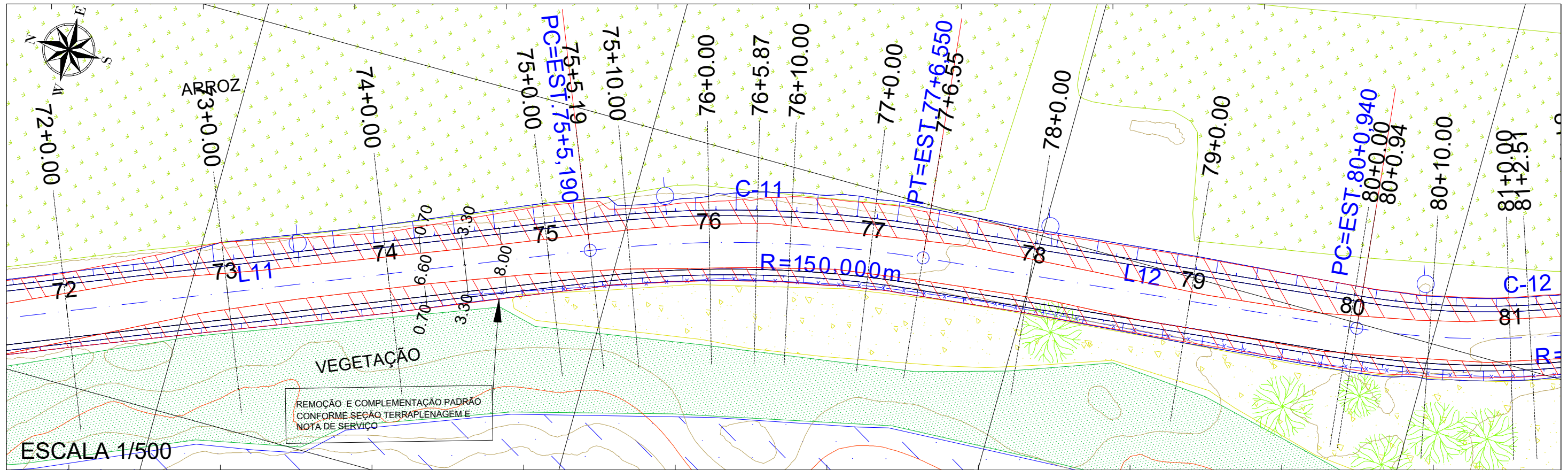
Prancha:
 8 / 18

Obra
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PROJETO GEOMETRICO

Local
 R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC

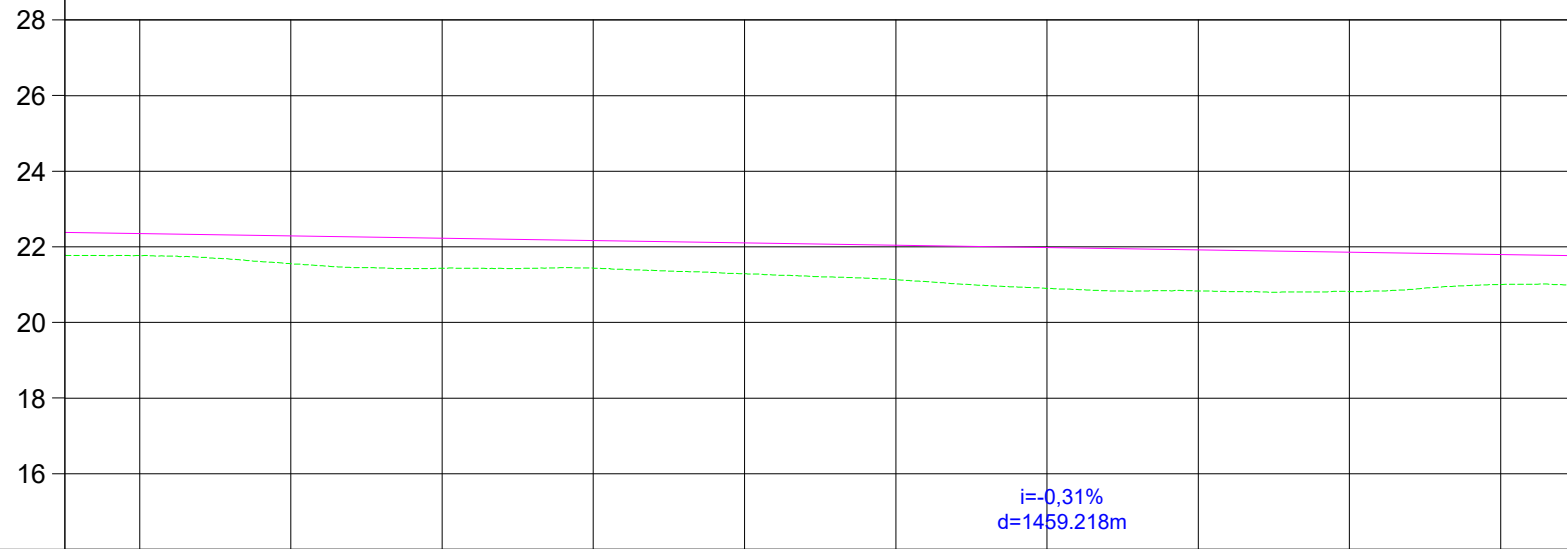
A3 (297mm X 420mm)



ESCALA 1/500

REMOÇÃO E COMPLEMENTAÇÃO PADRÃO
CONFORME SEÇÃO TERRAPLENAGEM E
NOTA DE SERVIÇO

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COTAS TERRENO/PROJETO	21,77 22,349	21,55 22,288	21,43 22,226	21,44 22,165	21,29 22,104	21,13 22,043	20,90 21,982	20,84 21,921	20,82 21,860	21,00 21,799
ESTAQUEAMENTO	72	73	74	75	76	77	78	79	80	81
PLANIMETRIA	TANGENTE L=84,573		R=150,000 D=41,360			TANGENTE L=54,390			R=100,000 D=43,134	

ESCALA 1/1.000



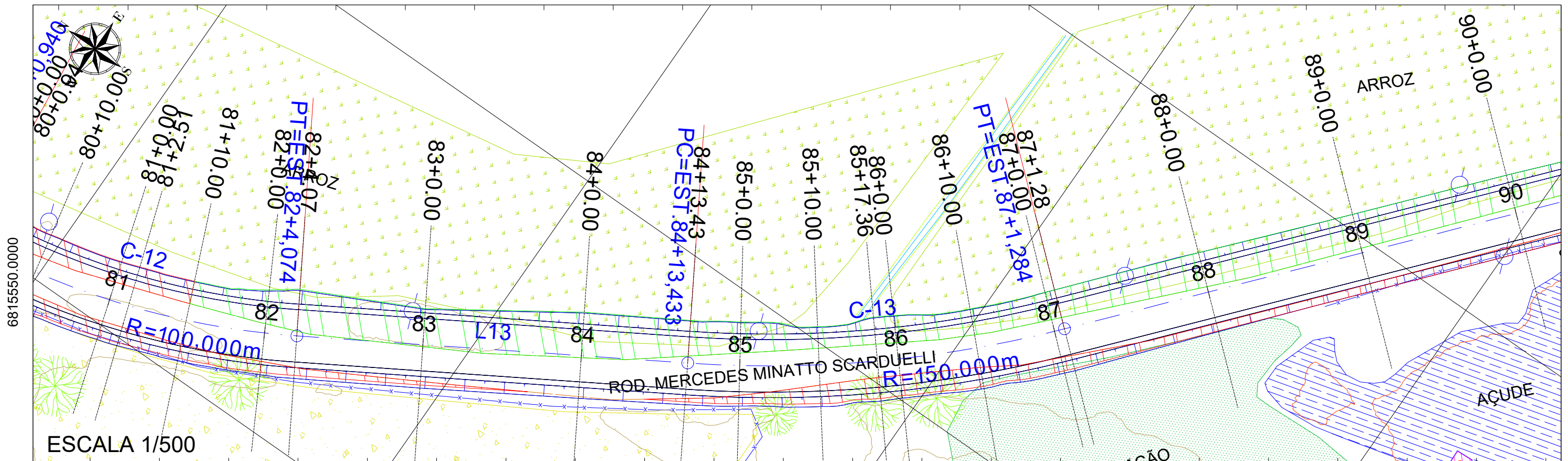
Autor do projeto:
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Prancha:
9 / 18

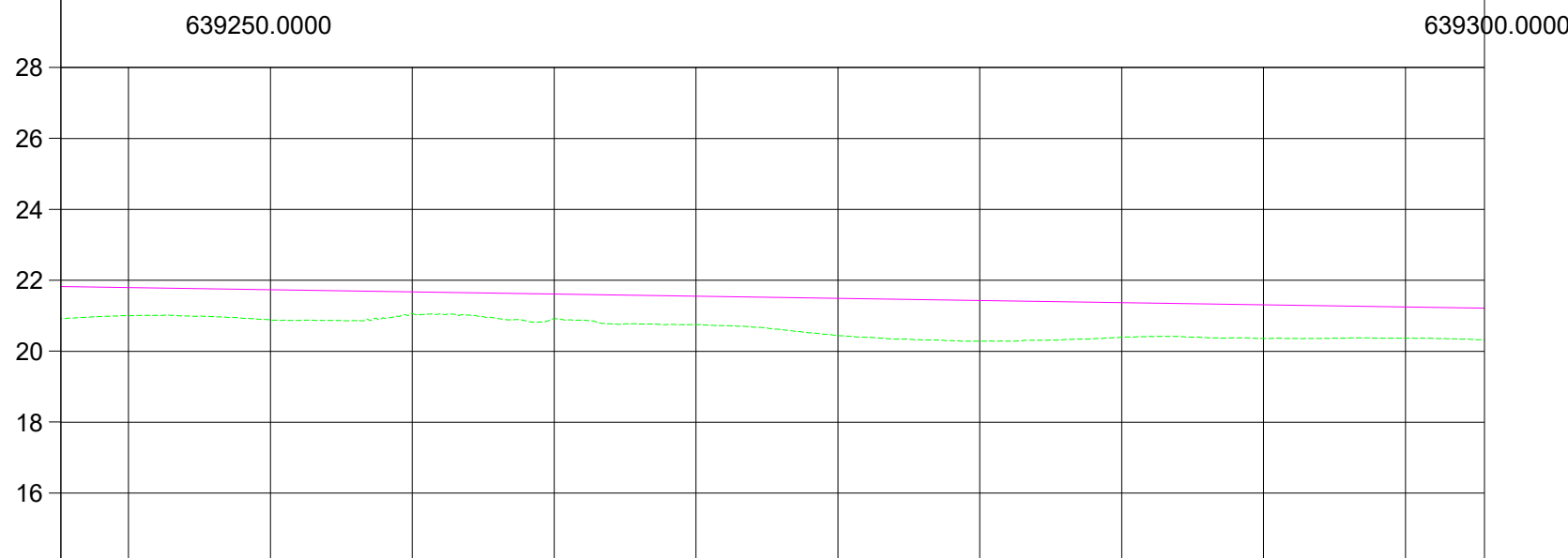
Obra
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ESCALA 1/500



COTAS TERRENO/PROJETO	21,00 21,799	20,88 21,738	21,06 21,677	20,92 21,616	20,75 21,555	20,45 21,494	20,28 21,433	20,40 21,372	20,36 21,311	20,37 21,249
ESTAQUEAMENTO	81	82	83	84	85	86	87	88	89	90
PLANIMETRIA	R=100,000 D=43,134		TANGENTE L=49,359			R=150,000 D=47,850				

ESCALA 1/1.000

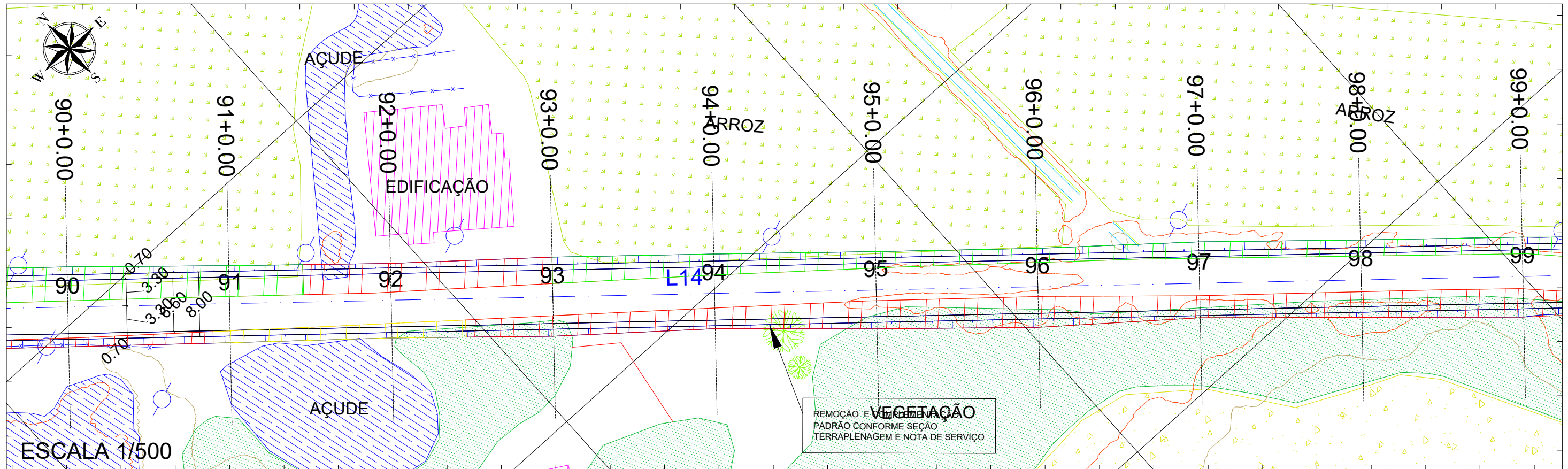


Autor do projeto: BRUNO FRIGO PASINI ENGENHEIRO CIVIL - CREA/SC 137.007-9		Obra R.M. MERCEDES MINATTO SCARDUELLI
Prancha: 10 / 18		Conteúdo PROJETO GEOMETRICO
		Local R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC

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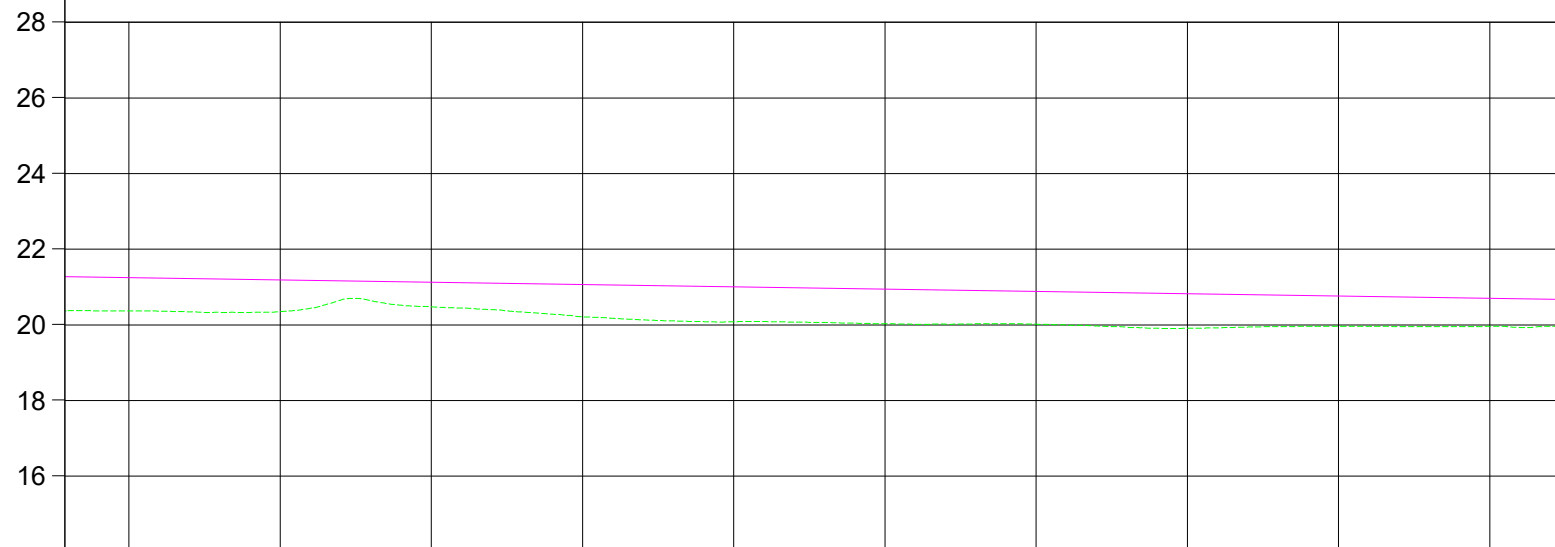


ESCALA 1/500

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COTAS TERRENO/PROJETO	20,37 21,249	20,35 21,188	20,48 21,127	20,21 21,066	20,08 21,005	20,03 20,944	20,02 20,883	19,91 20,822	19,96 20,761	19,96 20,700
ESTAQUEAMENTO	90	91	92	93	94	95	96	97	98	99
PLANIMETRIA	TANGENTE L=271.783									

ESCALA 1/1.000



Autor do projeto:
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 ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
 11 / 18

Obra
R.M. MERCEDES MINATTO SCARDUELLI

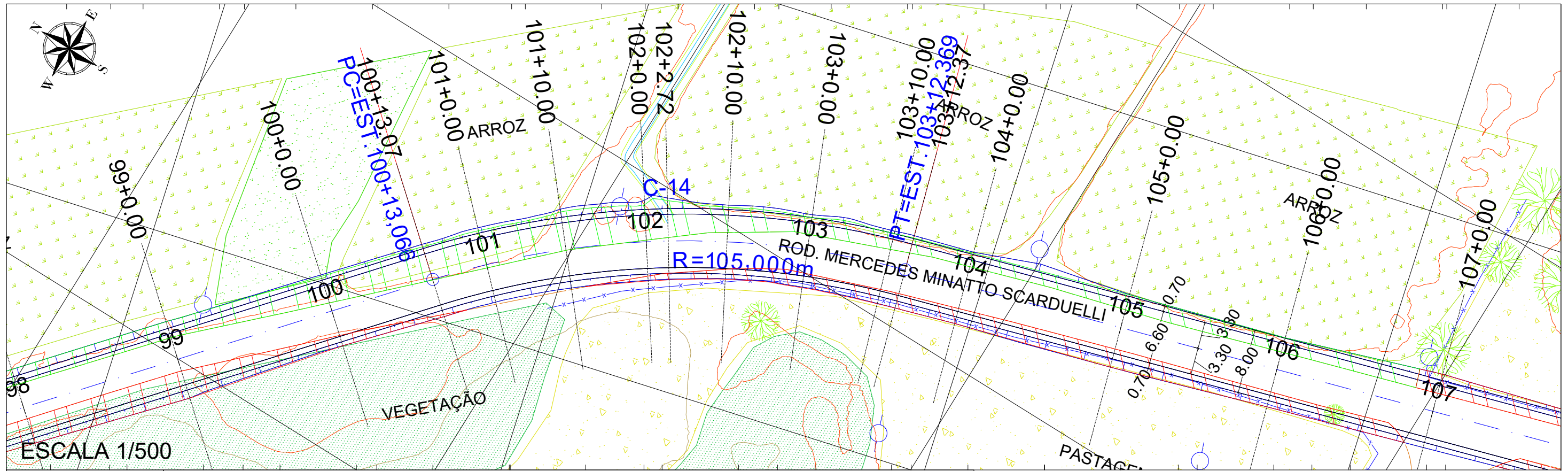
Conteúdo
PROJETO GEOMETRICO

Local
 R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC

A3 (297mm X 420mm)

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ESCALA 1/500

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COTAS TERRENO/PROJETO	19,96 20,700	19,97 20,639	20,00 20,578	19,86 20,517	19,76 20,456	19,71 20,395	19,67 20,334	19,65 20,272	19,60 20,211	19,47 20,150
ESTAQUEAMENTO	99	100	101	102	103	104	105	106	107	108
PLANIMETRIA				R=105,000 D=59,303				TANG L=185		

ESCALA 1/1.000



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Prancha:
 12 / 18

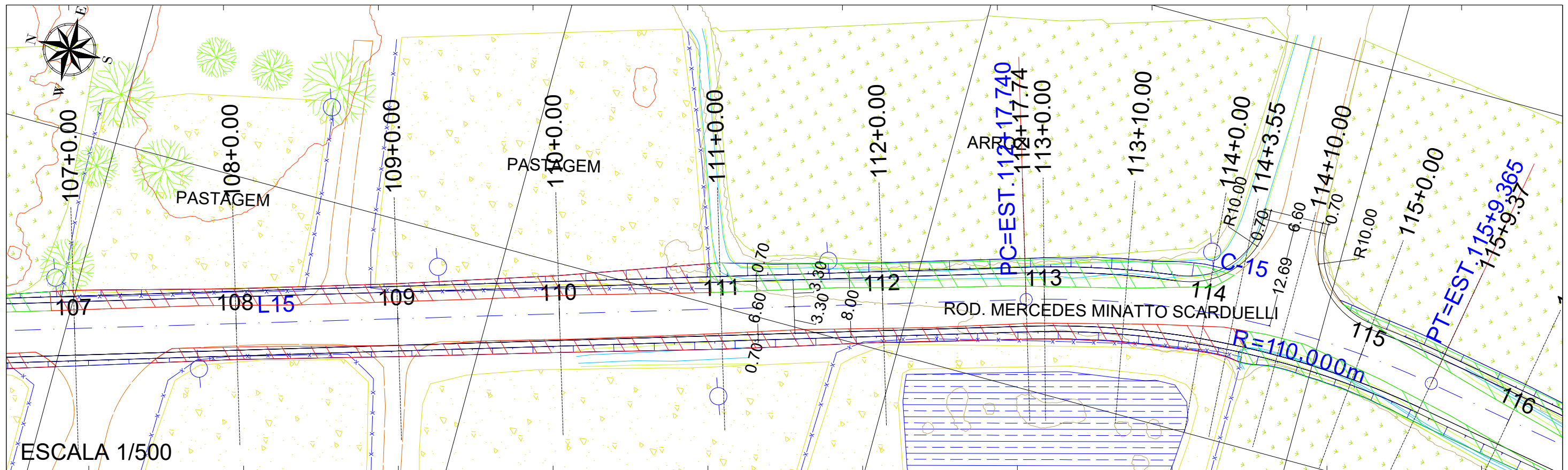
Obra
R.M. MERCEDES MINATTO SCARDUELLI

Conteúdo
PROJETO GEOMETRICO

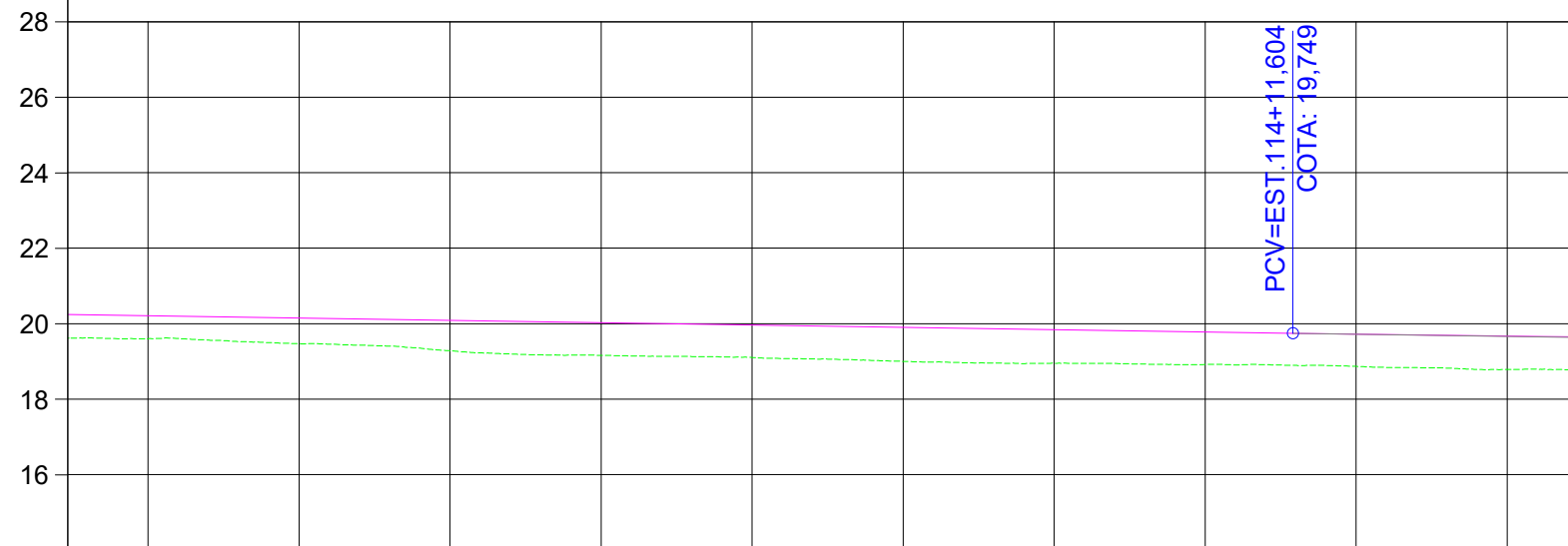
Local
 R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC

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A3 (297mm X 420mm)



ESCALA 1/500



COTAS TERRENO/PROJETO	19,60 20,211	19,47 20,150	19,28 20,089	19,16 20,028	19,11 19,967	19,00 19,906	18,95 19,845	18,92 19,784	18,87 19,724	18,79 19,672
ESTAQUEAMENTO	107	108	109	110	111	112	113	114	115	116
PLANIMETRIA	TANGENTE L=185.370						R=110,000 D=51,626			

ESCALA 1/1.000



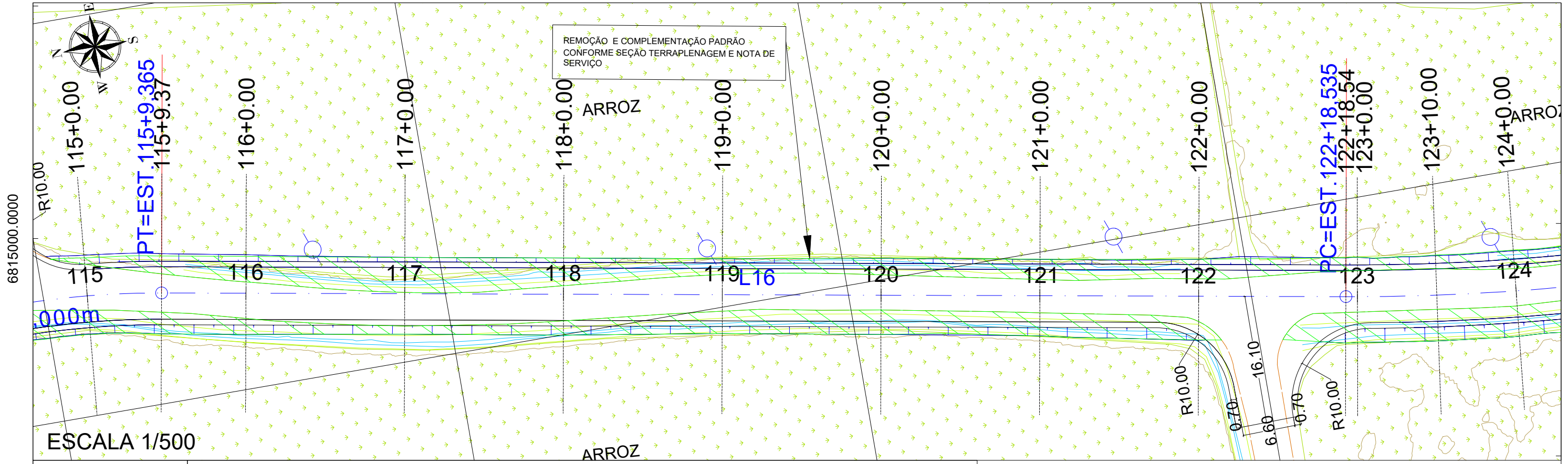
Autor do projeto:
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ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
13 / 18

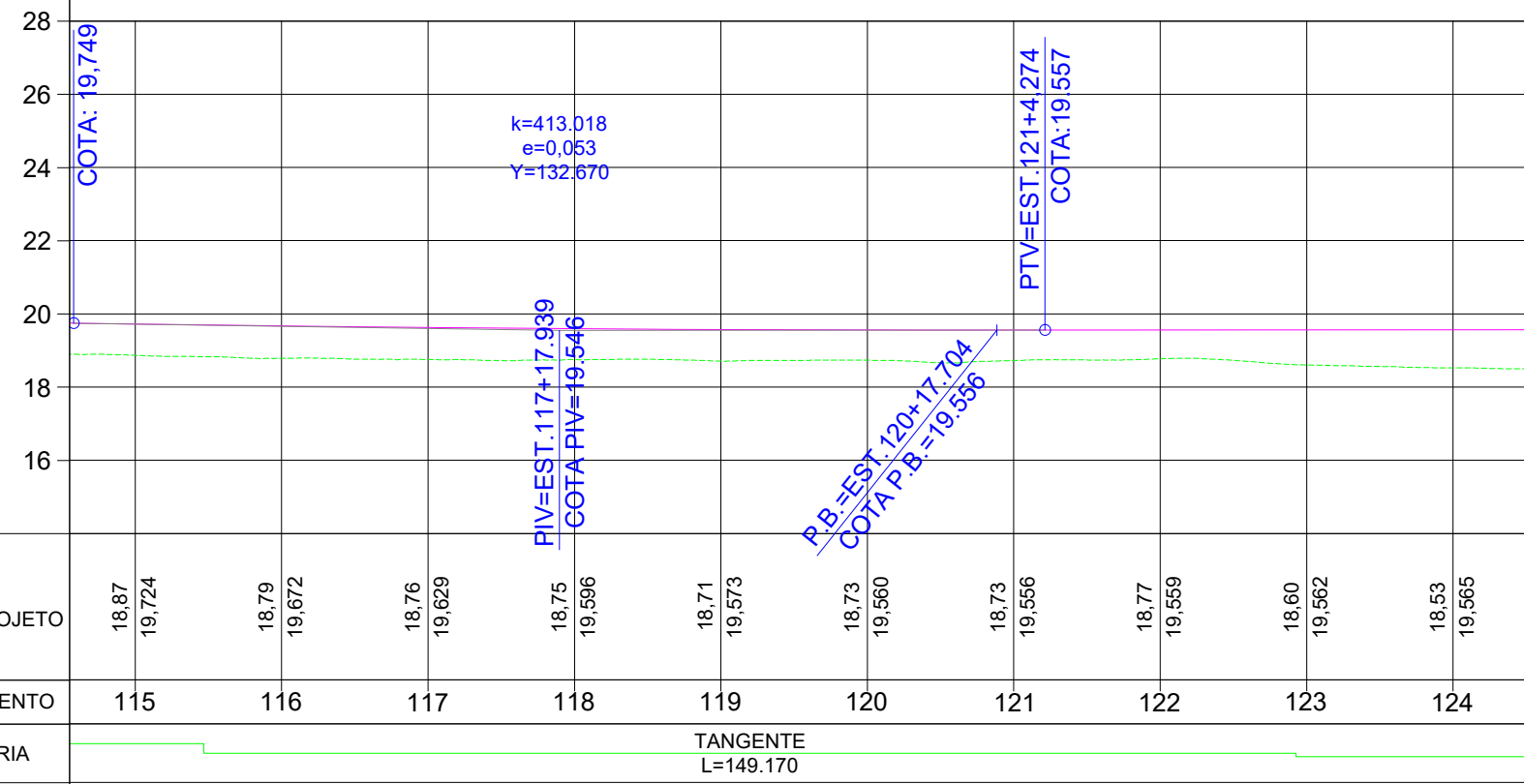
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PROJETO GEOMETRICO

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R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC



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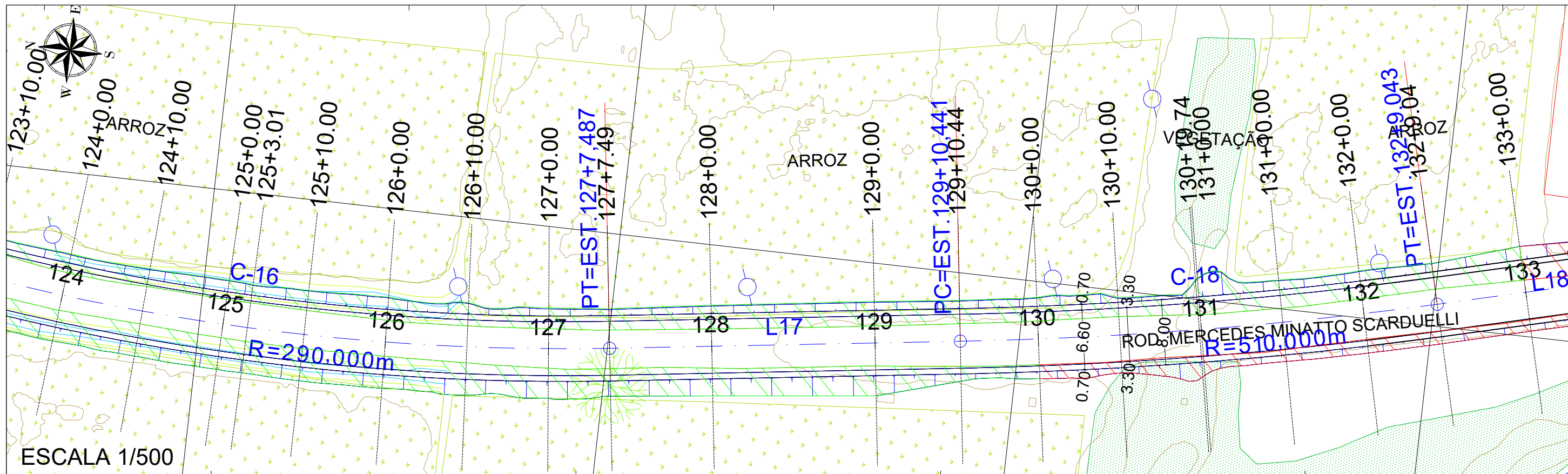


COTAS TERRENO/PROJETO	18,87 19,724	18,79 19,672	18,76 19,629	18,75 19,596	18,71 19,573	18,73 19,560	18,73 19,556	18,77 19,559	18,60 19,562	18,53 19,565
ESTAQUEAMENTO	115	116	117	118	119	120	121	122	123	124
PLANIMETRIA	TANGENTE L=149.170									

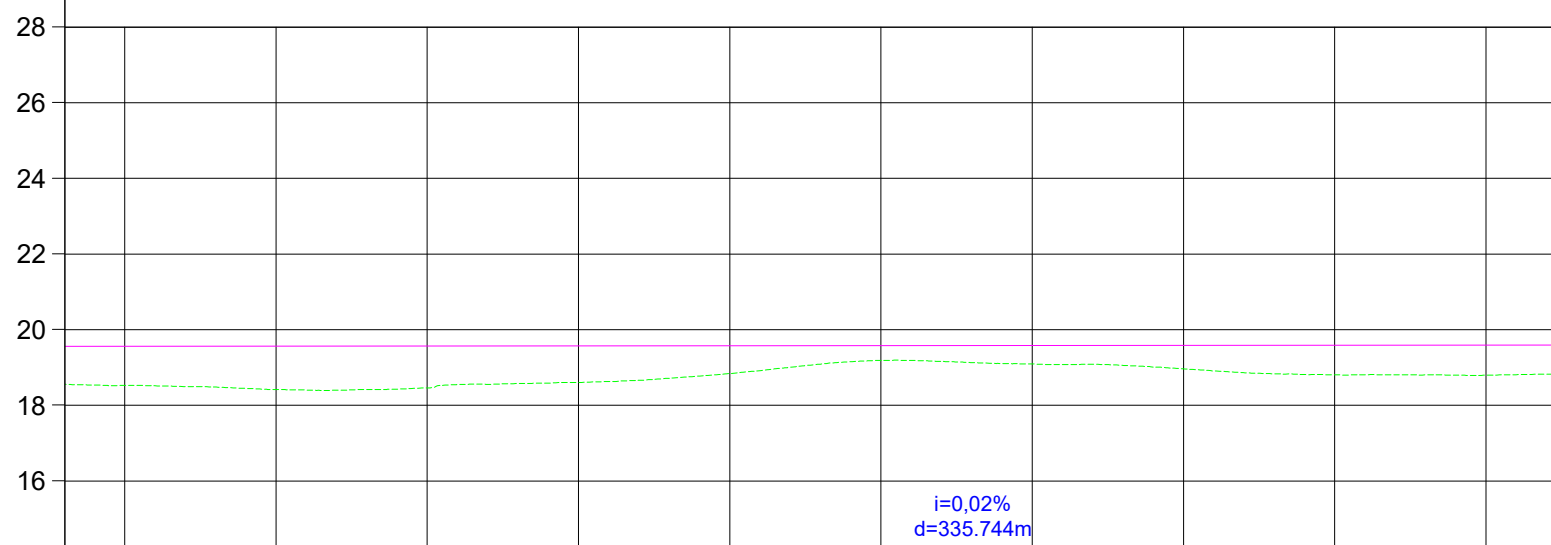
ESCALA 1/1.000



Autor do projeto: BRUNO FRIGO PASINI ENGENHEIRO CIVIL - CREA/SC 137.007-9		Obra R.M. MERCEDES MINATTO SCARDUELLI
Prancha: 14 / 18		Conteúdo PROJETO GEOMETRICO
		Local R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC



ESCALA 1/500



COTAS TERRENO/PROJETO	18,53 19,565	18,42 19,569	18,46 19,572	18,61 19,575	18,84 19,578	19,19 19,581	19,09 19,584	18,97 19,588	18,81 19,591	18,80 19,594
ESTAQUEAMENTO	124	125	126	127	128	129	130	131	132	133
PLANIMETRIA	R=290,000 D=88,952			TANGENTE L=42,953			R=510,000 D=58,603			TANGENTE L=28,297

ESCALA 1/1.000



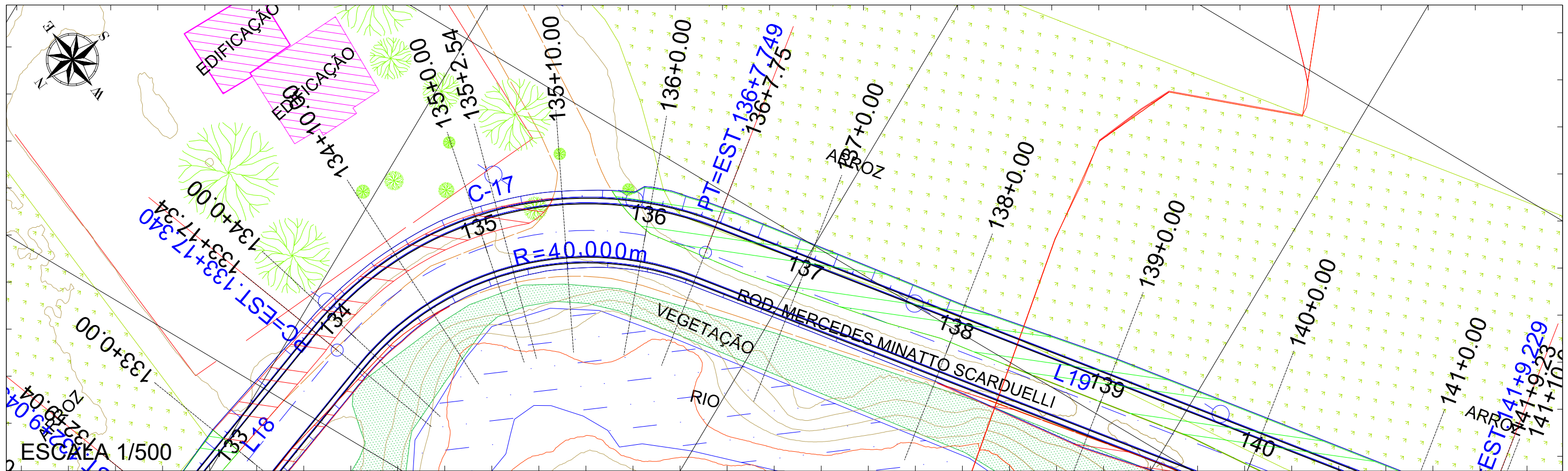
Autor do projeto:
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ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
15 / 18

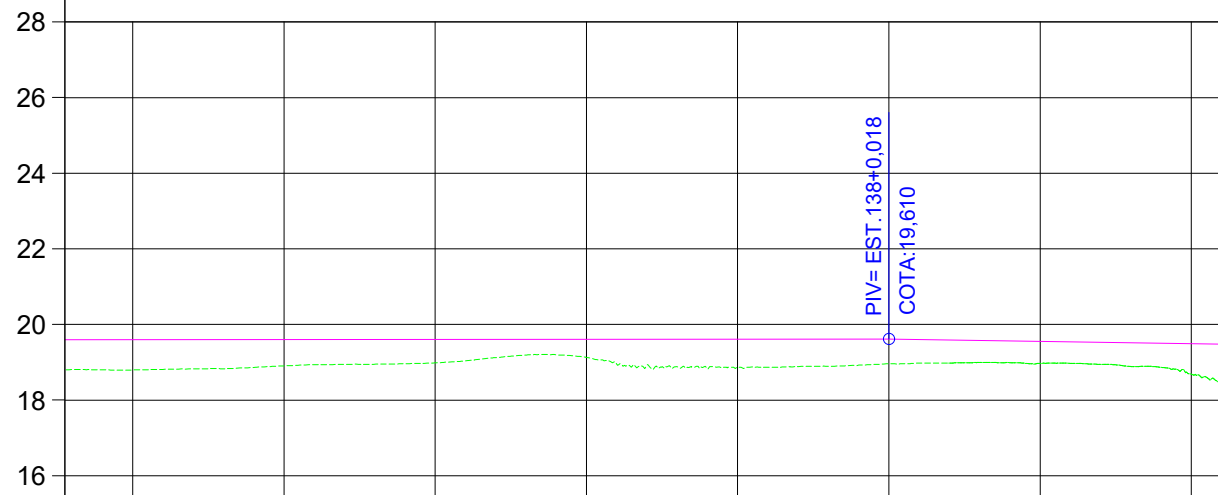
Obra
R.M. MERCEDES MINATTO SCARDUELLI

Conteúdo
PROJETO GEOMETRICO

Local
R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC



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COTAS TERRENO/PROJETO	18,80 19,594	18,90 19,597	18,99 19,600	19,13 19,604	18,87 19,607	18,96 19,610	18,97 19,553	18,69 19,495
ESTAQUEAMENTO	133	134	135	136	137	138	139	140
PLANIMETRIA	TANGENTE L=28.297		D=50,408			TANGENTE L=101.481		

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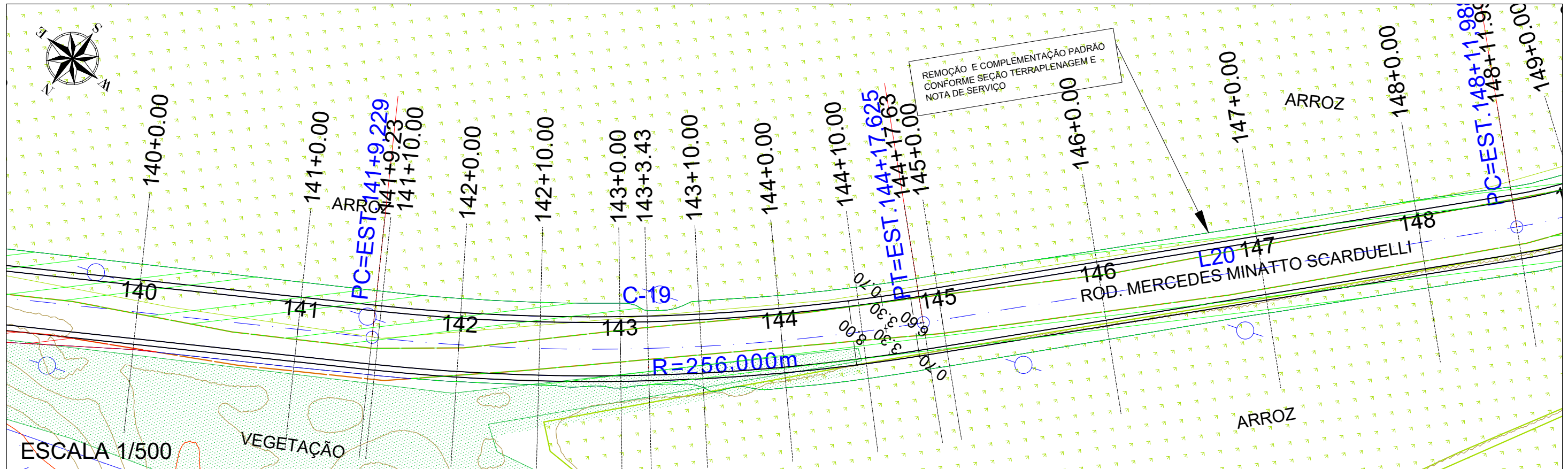
Prancha:
16 / 18

Obra
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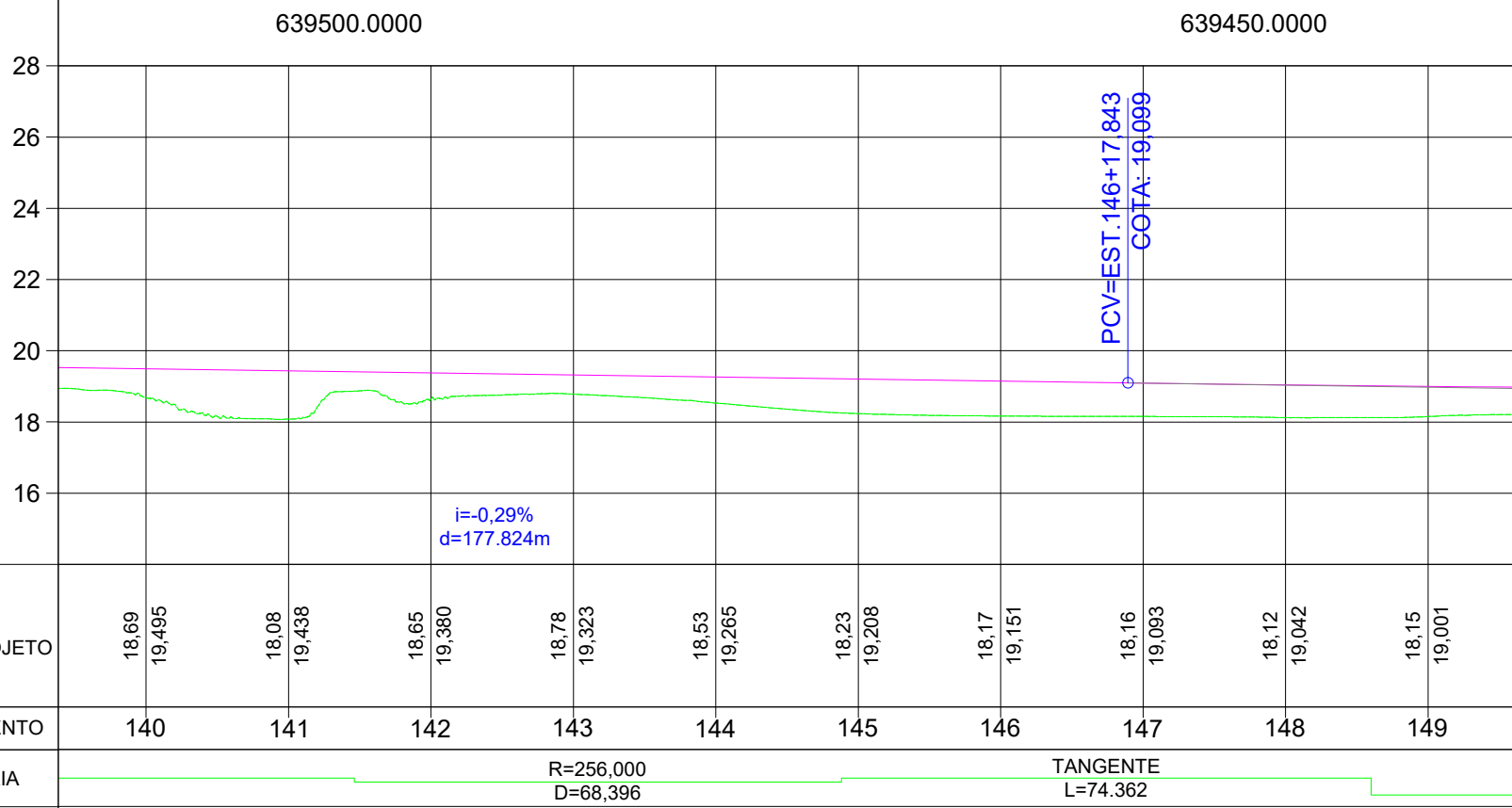
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Local
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ESCALA 1/500



ESCALA 1/1.000



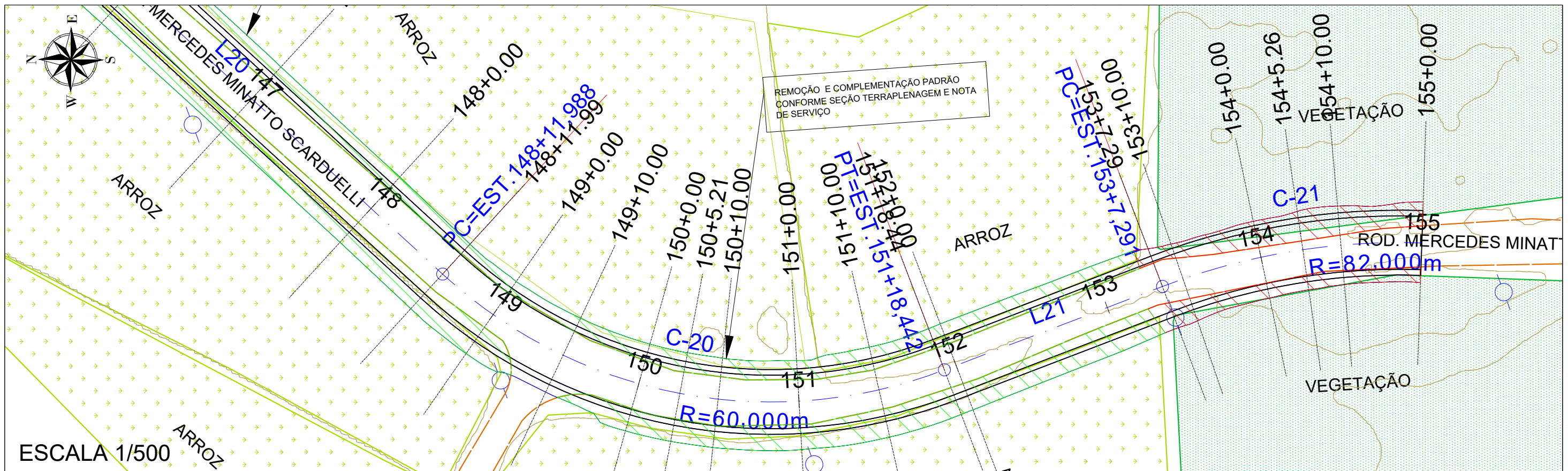
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Prancha:
 17 / 18

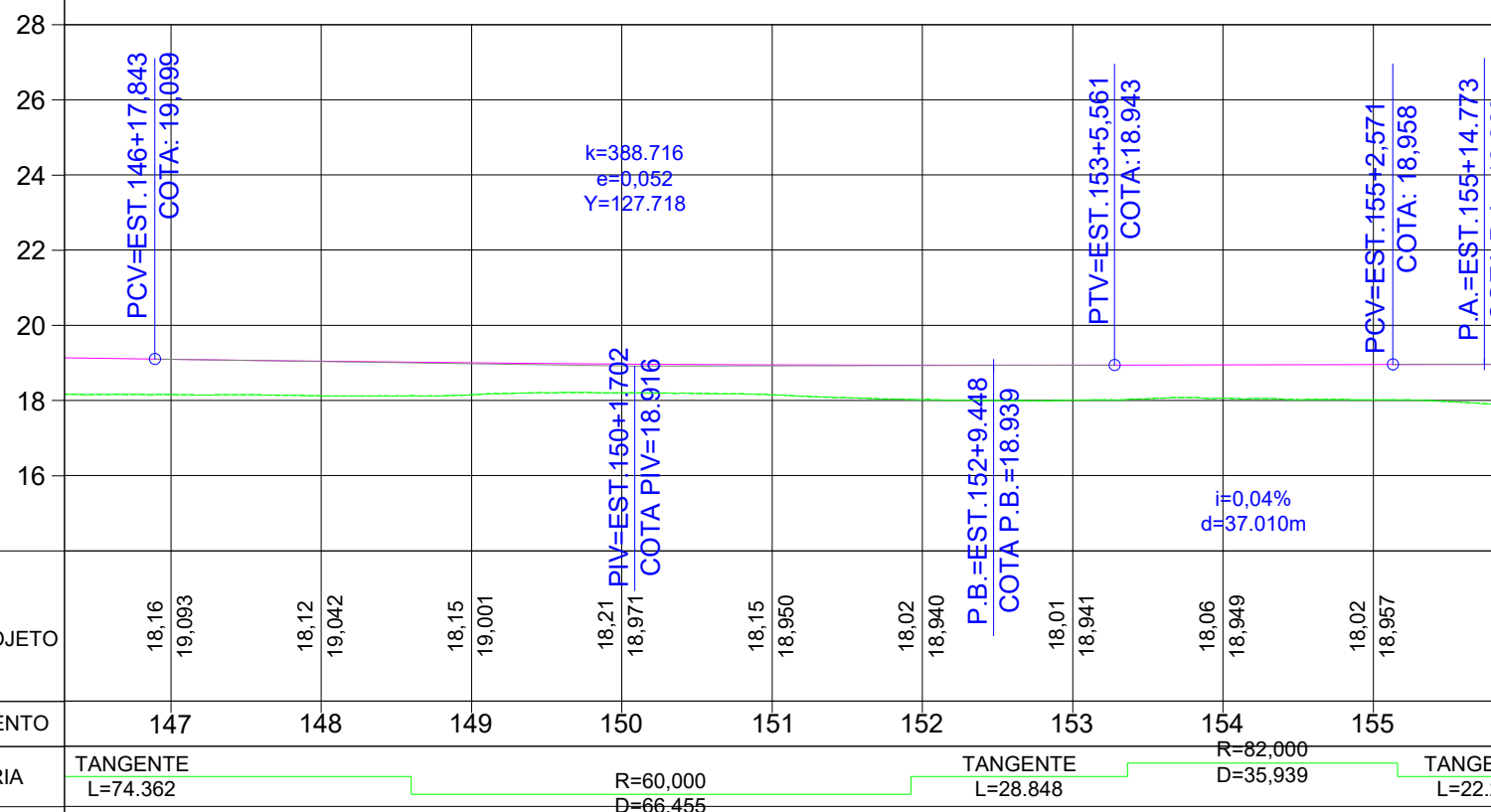
Obra
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Local
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ESCALA 1/500



ESCALA 1/1.000



Autor do projeto:
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ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
18 / 18

Obra
R.M. MERCEDES MINATTO SCARDUELLI

Conteúdo
PROJETO GEOMETRICO

Local
R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC

VOLUME TOTAL

Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m3)	Volume de Aterro (m3)	Volum. Corte Acum. (m3)	Volum Aterro Acum. (m3)	Volume Líquido (m3)
0+0,00	3,38	0,68	0,00	0,00	0,00	0,00	0,00
1+0,00	0,82	0,97	42,03	16,54	42,03	16,54	25,49
2+0,00	0,75	1,27	15,66	22,46	57,69	39,00	18,69
3+0,00	0,96	1,90	17,03	31,76	74,72	70,76	3,96
4+0,00	0,54	1,94	14,98	38,40	89,69	109,16	-19,46
5+0,00	0,16	1,96	7,04	39,01	96,73	148,17	-51,44
6+0,00	0,00	2,63	1,62	45,94	98,35	194,11	-95,77
6+7,09	0,01	2,62	0,03	18,63	98,37	212,75	-114,38
6+10,00	0,01	2,62	0,03	7,44	98,40	220,18	-121,78
7+0,00	0,08	2,22	0,47	23,65	98,88	243,83	-144,96
7+8,12	0,29	1,70	1,50	15,59	100,37	259,42	-159,05
7+10,00	0,11	1,20	0,37	2,69	100,74	262,11	-161,36
8+0,00	1,04	0,50	5,62	8,51	106,36	270,62	-164,26
8+9,14	0,90	0,54	8,67	4,87	115,03	275,49	-160,46
9+0,00	1,24	0,42	11,64	5,23	126,67	280,71	-154,05
10+0,00	1,24	0,55	24,78	9,76	151,44	290,47	-139,03
10+19,89	1,51	1,04	27,31	15,87	178,76	306,35	-127,59
11+0,00	1,53	1,06	0,16	0,11	178,92	306,46	-127,54
11+10,00	2,49	1,85	19,80	15,64	198,71	322,09	-123,38
11+15,95	2,49	1,87	14,57	11,98	213,28	334,07	-120,80
12+0,00	2,57	2,17	10,03	8,86	223,31	342,93	-119,62
12+10,00	2,33	1,66	24,09	20,67	247,41	363,60	-116,19
12+12,01	2,34	1,48	4,63	3,39	252,04	367,00	-114,95
13+0,00	1,81	1,94	16,61	13,67	268,65	380,67	-112,02
14+0,00	2,05	0,35	38,69	22,88	307,33	403,55	-96,21
15+0,00	1,31	0,53	33,64	8,81	340,98	412,36	-71,38
15+11,85	2,45	0,09	22,28	3,67	363,26	416,03	-52,77
16+0,00	1,24	0,58	14,85	2,79	378,10	418,82	-40,72
16+10,00	0,70	0,91	9,51	7,63	387,62	426,45	-38,84
16+12,96	0,68	1,11	1,99	3,05	389,61	429,51	-39,90
17+0,00	0,62	1,27	4,46	8,54	394,07	438,05	-43,98
17+10,00	0,55	1,72	5,69	15,23	399,75	453,28	-53,53
17+14,06	0,50	1,84	2,07	7,37	401,83	460,65	-58,82

VOLUME TOTAL

Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m3)	Volume de Aterro (m3)	Volum. Corte Acum. (m3)	Volum Aterro Acum. (m3)	Volume Líquido (m3)
18+0,00	0,67	1,85	3,46	10,92	405,28	471,57	-66,29
19+0,00	0,78	2,12	14,54	39,68	419,82	511,26	-91,43
19+10,38	0,49	1,47	6,58	18,65	426,41	529,91	-103,51
20+0,00	0,34	2,18	3,90	17,88	430,30	547,79	-117,49
20+10,00	0,36	2,40	3,44	23,34	433,74	571,14	-137,40
20+11,69	0,39	2,20	0,63	3,88	434,37	575,02	-140,65
21+0,00	0,35	2,03	3,01	17,92	437,38	592,94	-155,55
21+10,00	0,45	2,72	3,96	24,20	441,34	617,14	-175,80
21+13,00	0,39	2,76	1,27	8,21	442,61	625,35	-182,74
22+0,00	0,18	1,20	2,01	13,86	444,62	639,21	-194,59
23+0,00	2,62	0,52	27,97	17,19	472,59	656,40	-183,81
24+0,00	5,45	0,02	80,71	5,33	553,30	661,73	-108,42
25+0,00	1,52	0,40	69,71	4,14	623,01	665,86	-42,85
26+0,00	0,00	2,44	15,18	28,39	638,19	694,26	-56,07
27+0,00	0,22	1,11	2,19	35,53	640,38	729,79	-89,41
28+0,00	0,21	0,96	4,28	20,73	644,66	750,52	-105,86
29+0,00	0,18	1,35	3,85	23,08	648,52	773,60	-125,08
30+0,00	0,36	1,07	5,40	24,12	653,92	797,72	-143,80
31+0,00	0,70	0,39	10,63	14,58	664,55	812,30	-147,75
32+0,00	1,06	0,31	17,57	6,96	682,12	819,26	-137,14
33+0,00	1,05	0,30	21,08	6,10	703,20	825,36	-122,16
34+0,00	1,35	0,23	23,96	5,35	727,16	830,71	-103,55
35+0,00	0,28	0,88	16,27	11,08	743,43	841,79	-98,36
36+0,00	0,07	0,98	3,48	18,61	746,92	860,40	-113,48
37+0,00	0,37	0,95	4,39	19,32	751,31	879,72	-128,41
37+3,96	0,40	0,92	1,53	3,71	752,84	883,42	-130,59
37+10,00	0,44	0,96	2,54	5,69	755,38	889,11	-133,73
38+0,00	1,18	0,50	8,08	7,29	763,46	896,40	-132,94
38+9,17	2,39	0,25	16,37	3,45	779,83	899,84	-120,02
38+10,00	2,56	0,23	2,06	0,20	781,88	900,04	-118,16
39+0,00	2,71	0,29	26,35	2,58	808,23	902,62	-94,39
39+10,00	2,02	0,40	23,66	3,44	831,89	906,07	-74,18
39+14,38	1,72	0,45	8,17	1,85	840,06	907,92	-67,86



Autor do projeto:
BRUNO FRIGO PASINI
 ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
1 / 5

Obra
R.M. MERCEDES MINATTO SCARDUELLI

Conteúdo
VOLUME TOTAL

Local
R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC

VOLUME TOTAL

Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m3)	Volume de Aterro (m3)	Volum. Corte Acum. (m3)	Volum Aterro Acum. (m3)	Volume Líquido (m3)
40+0,00	1,37	0,44	8.67	2,49	848,73	910,41	-61,68
40+19,88	0,01	1,37	13.68	18,00	862,41	928,41	-66,00
41+0,00	0,00	1,38	0.00	0,16	862,41	928,57	-66,15
41+10,00	0,00	2,11	0.02	17,40	862,44	945,97	-83,53
42+0,00	0,00	1,96	0.00	20,34	862,44	966,31	-103,87
42+2,28	0,00	1,90	0.00	4,41	862,44	970,71	-108,28
42+10,00	0,12	1,34	0.47	12,48	862,90	983,19	-120,29
43+0,00	0,85	1,01	4.84	11,75	867,74	994,95	-127,20
43+4,68	1,25	1,00	4.91	4,71	872,65	999,66	-127,01
44+0,00	1,61	0,68	21.93	12,83	894,58	1012,49	-117,92
45+0,00	1,90	0,50	35.12	11,82	929,70	1024,32	-94,62
46+0,00	1,82	0,18	37.18	6,89	966,88	1031,21	-64,33
47+0,00	0,34	1,46	21.62	16,45	988,49	1047,66	-59,16
48+0,00	0,04	2,59	3.78	40,52	992,27	1088,18	-95,91
48+14,73	0,00	3,23	0.26	42,86	992,53	1131,04	-138,50
49+0,00	0,00	3,38	0.00	17,51	992,53	1148,54	-156,01
49+10,00	0,00	4,47	0.00	39,46	992,53	1188,00	-195,47
49+18,98	0,00	5,10	0.00	43,08	992,53	1231,09	-238,55
50+0,00	0,00	4,99	0.00	5,16	992,53	1236,25	-243,71
50+10,00	0,00	4,44	0.00	47,19	992,53	1283,44	-290,91
51+0,00	0,00	3,59	0.00	40,06	992,53	1323,50	-330,97
51+3,23	0,00	3,73	0.00	11,76	992,53	1335,26	-342,72
52+0,00	0,00	4,22	0.00	66,71	992,53	1401,96	-409,43
53+0,00	0,00	2,76	0.04	69,78	992,57	1471,74	-479,17
54+0,00	0,14	2,99	1.43	57,44	994,00	1529,17	-535,17
55+0,00	0,17	2,77	3.04	57,56	997,04	1586,74	-589,69
56+0,00	0,00	3,02	1.65	57,93	998,69	1644,66	-645,97
56+13,88	0,00	4,47	0.00	52,01	998,69	1696,67	-697,98
57+0,00	0,00	3,44	0.00	23,96	998,69	1720,63	-721,94
57+10,00	0,00	4,19	0.00	38,05	998,69	1758,68	-759,99
57+18,58	0,00	3,99	0.00	34,94	998,69	1793,62	-794,93
58+0,00	0,00	4,05	0.00	5,72	998,69	1799,34	-800,65
58+10,00	0,00	3,27	0.00	36,49	998,69	1835,84	-837,14

VOLUME TOTAL

Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m3)	Volume de Aterro (m3)	Volum. Corte Acum. (m3)	Volum Aterro Acum. (m3)	Volume Líquido (m3)
59+0,00	0,00	2,96	0.00	31,07	998,69	1866,91	-868,21
59+3,27	0,00	2,81	0.00	9,41	998,69	1876,31	-877,62
60+0,00	0,00	2,36	0.00	43,28	998,69	1919,60	-920,90
61+0,00	0,17	0,90	1.73	32,68	1000,42	1952,27	-951,85
62+0,00	0,00	4,95	1.73	58,53	1002,15	2010,80	-1008,65
63+0,00	0,00	4,53	0.00	94,79	1002,15	2105,59	-1103,44
64+0,00	0,00	4,66	0.00	91,90	1002,15	2197,49	-1195,34
64+8,66	0,00	4,85	0.00	41,19	1002,15	2238,68	-1236,53
64+10,00	0,00	4,84	0.00	6,50	1002,15	2245,18	-1243,02
65+0,00	0,00	5,04	0.00	49,64	1002,15	2294,81	-1292,66
65+10,00	0,00	5,04	0.00	50,70	1002,15	2345,51	-1343,36
65+16,14	0,00	4,83	0.00	30,55	1002,15	2376,06	-1373,91
66+0,00	0,00	4,79	0.00	18,71	1002,15	2394,78	-1392,62
66+10,00	0,00	4,51	0.00	46,94	1002,15	2441,72	-1439,56
67+0,00	0,00	4,78	0.00	46,76	1002,15	2488,47	-1486,32
67+3,63	0,00	5,03	0.00	17,86	1002,15	2506,33	-1504,18
68+0,00	0,00	3,74	0.00	71,76	1002,15	2578,09	-1575,93
68+8,41	0,00	4,35	0.00	34,04	1002,15	2612,13	-1609,97
68+10,00	0,00	3,68	0.00	6,37	1002,15	2618,49	-1616,34
69+0,00	0,12	1,59	0.64	26,24	1002,79	2644,74	-1641,94
69+10,00	0,19	1,65	1.58	16,32	1004,38	2661,06	-1656,68
69+14,52	0,26	2,74	1.01	10,23	1005,38	2671,28	-1665,90
70+0,00	0,45	5,91	1.90	24,61	1007,29	2695,89	-1688,60
70+10,00	1,83	2,02	11.26	41,27	1018,55	2737,16	-1718,61
71+0,00	2,01	0,32	19.03	12,28	1037,58	2749,43	-1711,85
71+0,62	2,06	0,30	1.25	0,19	1038,84	2749,62	-1710,79
72+0,00	1,96	0,29	38.90	5,69	1077,73	2755,31	-1677,58
73+0,00	0,73	0,56	26.84	8,51	1104,57	2763,83	-1659,25
74+0,00	0,44	0,59	11.65	11,56	1116,22	2775,38	-1659,17
75+0,00	0,58	1,39	10.23	19,83	1126,45	2795,22	-1668,77
75+5,19	0,47	1,34	2.74	7,08	1129,19	2802,30	-1673,11
75+10,00	0,51	0,58	2.36	4,71	1131,55	2807,01	-1675,46
76+0,00	0,11	1,30	3.08	9,53	1134,63	2816,55	-1681,91



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Prancha:
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Obra
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Conteúdo
VOLUME TOTAL

Local
R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC

VOLUME TOTAL

Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m3)	Volume de Aterro (m3)	Volum. Corte Acum. (m3)	Volum Aterro Acum. (m3)	Volume Líquido (m3)
76+5,87	0,02	1,70	0,36	8,94	1134,99	2825,48	-1690,49
76+10,00	0,00	2,15	0,04	8,08	1135,03	2833,56	-1698,53
77+0,00	0,00	2,64	0,00	24,32	1135,04	2857,89	-1722,85
77+6,55	0,00	3,04	0,00	18,82	1135,04	2876,71	-1741,67
78+0,00	0,00	3,64	0,00	44,90	1135,04	2921,61	-1786,57
79+0,00	0,00	3,84	0,00	74,80	1135,04	2996,41	-1861,37
80+0,00	0,00	3,01	0,00	68,55	1135,04	3064,95	-1929,91
80+0,94	0,00	2,94	0,00	2,80	1135,04	3067,75	-1932,71
80+10,00	0,03	2,07	0,14	22,97	1135,18	3090,72	-1955,54
81+0,00	0,17	1,04	0,98	15,81	1136,16	3106,53	-1970,37
81+2,51	0,14	1,03	0,37	2,64	1136,53	3109,17	-1972,64
81+10,00	0,24	1,00	1,36	7,74	1137,89	3116,91	-1979,01
82+0,00	0,18	1,32	2,02	11,78	1139,91	3128,69	-1988,78
82+4,07	0,22	1,52	0,79	5,84	1140,70	3134,53	-1993,82
83+0,00	1,56	1,11	14,14	20,87	1154,84	3155,39	-2000,56
84+0,00	0,17	2,09	17,30	31,96	1172,13	3187,35	-2015,22
84+13,43	0,00	1,81	1,17	26,20	1173,30	3213,55	-2040,24
85+0,00	0,07	1,41	0,22	10,55	1173,53	3224,10	-2050,57
85+10,00	0,36	1,26	2,12	13,45	1175,64	3237,55	-2061,91
85+17,36	0,00	2,64	1,31	14,41	1176,95	3251,96	-2075,01
86+0,00	0,00	3,19	0,00	7,68	1176,95	3259,63	-2082,69
86+10,00	0,11	3,06	0,54	31,29	1177,48	3290,93	-2113,44
87+0,00	0,09	2,96	1,00	30,32	1178,48	3321,25	-2142,76
87+1,28	0,07	2,93	0,10	3,78	1178,59	3325,02	-2146,43
88+0,00	0,00	1,90	0,63	45,21	1179,22	3370,23	-2191,01
89+0,00	0,05	1,33	0,48	32,30	1179,70	3402,54	-2222,84
90+0,00	0,08	0,93	1,32	22,59	1181,02	3425,12	-2244,11
91+0,00	0,47	0,54	5,52	14,69	1186,54	3439,81	-2253,27
92+0,00	1,76	0,25	22,31	7,83	1208,85	3447,64	-2238,79
93+0,00	0,17	0,73	19,37	9,82	1228,22	3457,46	-2229,24
94+0,00	0,47	0,97	6,45	17,00	1234,67	3474,46	-2239,79
95+0,00	0,15	1,06	6,25	20,30	1240,92	3494,76	-2253,83
96+0,00	0,03	1,32	1,87	23,80	1242,80	3518,56	-2275,76

VOLUME TOTAL

Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m3)	Volume de Aterro (m3)	Volum. Corte Acum. (m3)	Volum Aterro Acum. (m3)	Volume Líquido (m3)
97+0,00	1,31	0,93	13,41	22,49	1256,20	3541,05	-2284,84
98+0,00	0,43	0,47	17,41	13,99	1273,61	3555,04	-2281,43
99+0,00	0,77	0,58	12,06	10,47	1285,67	3565,51	-2279,84
100+0,00	1,62	0,25	23,90	8,28	1309,57	3573,79	-2264,22
100+13,07	2,08	0,32	24,14	3,69	1333,71	3577,48	-2243,77
101+0,00	2,05	0,35	14,39	2,30	1348,11	3579,79	-2231,68
101+10,00	1,21	0,59	16,32	4,74	1364,43	3584,53	-2220,10
102+0,00	1,73	0,52	14,69	5,62	1379,12	3590,15	-2211,02
102+2,72	1,19	1,20	3,95	2,39	1383,07	3592,53	-2209,47
102+10,00	0,85	0,31	7,33	5,62	1390,40	3598,15	-2207,75
103+0,00	0,98	0,20	9,12	2,52	1399,52	3600,67	-2201,14
103+10,00	1,16	0,29	10,73	2,38	1410,25	3603,05	-2192,80
103+12,37	1,13	0,30	2,73	0,69	1412,98	3603,74	-2190,75
104+0,00	0,98	0,26	8,05	2,15	1421,03	3605,88	-2184,85
105+0,00	1,26	0,32	22,40	5,81	1443,43	3611,69	-2168,26
106+0,00	1,79	0,19	30,56	5,16	1473,99	3616,86	-2142,87
107+0,00	1,69	0,36	34,85	5,51	1508,83	3622,36	-2113,53
108+0,00	1,73	0,12	34,20	4,77	1543,03	3627,14	-2084,11
109+0,00	1,21	0,25	29,36	3,73	1572,39	3630,86	-2058,48
110+0,00	0,49	0,63	16,96	8,78	1589,35	3639,65	-2050,30
111+0,00	0,13	1,44	6,14	20,71	1595,48	3660,35	-2064,87
112+0,00	0,01	1,98	1,35	34,27	1596,83	3694,62	-2097,79
112+17,74	0,00	2,18	0,11	36,96	1596,94	3731,58	-2134,64
113+0,00	0,01	2,28	0,02	5,14	1596,96	3736,72	-2139,76
113+10,00	0,09	1,94	0,51	21,52	1597,47	3758,24	-2160,77
114+0,00	0,13	2,17	1,06	20,98	1598,53	3779,22	-2180,69
114+3,55	0,13	1,71	0,45	7,04	1598,98	3786,26	-2187,28
114+10,00	0,06	1,37	0,61	10,11	1599,59	3796,37	-2196,78
115+0,00	0,01	1,60	0,35	15,10	1599,94	3811,47	-2211,53
115+9,37	0,06	1,39	0,35	14,13	1600,29	3825,60	-2225,31
116+0,00	0,14	1,14	1,09	13,50	1601,38	3839,09	-2237,71
117+0,00	0,82	0,64	9,66	17,81	1611,04	3856,90	-2245,85
118+0,00	0,42	0,70	12,46	13,39	1623,50	3870,29	-2246,79



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Prancha:
3 / 5

Obra
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Conteúdo
VOLUME TOTAL

Local
R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC

VOLUME TOTAL

Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m3)	Volume de Aterro (m3)	Volum. Corte Acum. (m3)	Volum Aterro Acum. (m3)	Volume Líquido (m3)
119+0,00	0,09	0,73	5.16	14,35	1628,66	3884,64	-2255,98
120+0,00	0,05	0,77	1.45	15,04	1630,11	3899,68	-2269,57
121+0,00	0,15	0,75	2.02	15,25	1632,13	3914,93	-2282,80
122+0,00	0,28	0,89	4.31	16,45	1636,45	3931,38	-2294,93
122+18,54	0,00	3,08	2.62	36,77	1639,07	3968,15	-2329,08
123+0,00	0,01	3,22	0.01	4,61	1639,07	3972,76	-2333,68
123+10,00	0,01	3,55	0.08	34,07	1639,15	4006,83	-2367,67
124+0,00	0,00	3,90	0.05	37,48	1639,21	4044,31	-2405,10
124+10,00	0,00	4,12	0.00	40,29	1639,21	4084,59	-2445,39
125+0,00	0,00	4,74	0.00	44,41	1639,21	4129,00	-2489,80
125+3,01	0,00	4,54	0.00	13,97	1639,21	4142,97	-2503,77
125+10,00	0,00	4,74	0.00	32,52	1639,21	4175,49	-2536,28
126+0,00	0,00	4,48	0.00	46,18	1639,21	4221,67	-2582,47
126+10,00	0,00	3,72	0.00	41,11	1639,21	4262,78	-2623,57
127+0,00	0,14	2,57	0.68	31,60	1639,88	4294,38	-2654,50
127+7,49	0,04	2,15	0.64	17,77	1640,53	4312,15	-2671,63
128+0,00	0,32	1,14	2.24	20,59	1642,77	4332,75	-2689,98
129+0,00	2,26	0,85	25.76	19,96	1668,53	4352,71	-2684,18
129+10,44	2,34	0,52	24.01	7,15	1692,53	4359,87	-2667,33
130+0,00	1,84	0,60	19.99	5,32	1712,52	4365,19	-2652,67
130+10,00	2,25	0,23	20.41	4,14	1732,93	4369,33	-2636,40
130+19,74	0,62	4,41	13.97	22,49	1746,91	4391,83	-2644,92
131+0,00	0,61	5,02	0.16	1,22	1747,06	4393,04	-2645,98
131+10,00	0,29	1,90	4.47	34,44	1751,54	4427,49	-2675,95
132+0,00	0,08	1,80	1.84	18,41	1753,38	4445,90	-2692,52
132+9,04	0,04	1,75	0.55	15,98	1753,92	4461,87	-2707,95
133+0,00	0,04	2,50	0.46	23,28	1754,38	4485,15	-2730,77
133+17,34	0,70	0,58	6.47	26,71	1760,85	4511,86	-2751,01
134+0,00	1,02	0,55	2.28	1,50	1763,13	4513,36	-2750,23
134+10,00	1,28	0,52	11.52	5,27	1774,64	4518,63	-2743,99
135+0,00	1,39	0,53	13.30	5,21	1787,94	4523,84	-2735,90
135+2,54	1,62	0,48	3.79	1,29	1791,73	4525,13	-2733,40
135+10,00	2,47	0,41	15.11	3,36	1806,84	4528,49	-2721,66

VOLUME TOTAL

Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m3)	Volume de Aterro (m3)	Volum. Corte Acum. (m3)	Volum Aterro Acum. (m3)	Volume Líquido (m3)
136+0,00	2,11	1,74	22.44	11,61	1829,27	4540,11	-2710,84
136+7,75	1,09	2,60	11.85	18,22	1841,12	4558,33	-2717,21
137+0,00	0,98	2,27	12.67	29,82	1853,79	4588,15	-2734,36
138+0,00	1,20	1,47	21.75	37,34	1875,54	4625,49	-2749,95
139+0,00	1,28	2,13	24.79	35,94	1900,33	4661,44	-2761,11
140+0,00	0,81	3,49	20.86	56,18	1921,19	4717,62	-2796,43
141+0,00	0,34	3,93	11.46	74,17	1932,65	4791,79	-2859,14
141+9,23	1,43	1,80	8.18	26,44	1940,83	4818,23	-2877,40
141+10,00	1,40	1,81	1.09	1,39	1941,92	4819,62	-2877,70
142+0,00	0,96	2,63	11.88	21,95	1953,81	4841,57	-2887,76
142+10,00	1,48	1,95	12.28	22,64	1966,09	4864,21	-2898,12
143+0,00	2,00	1,08	17.49	14,95	1983,58	4879,16	-2895,59
143+3,43	2,25	0,23	7.29	2,24	1990,87	4881,40	-2890,54
143+10,00	1,61	1,06	12.72	4,21	2003,59	4885,61	-2882,02
144+0,00	0,68	1,70	11.51	13,72	2015,10	4899,33	-2884,23
144+10,00	0,00	2,51	3.42	21,04	2018,51	4920,37	-2901,85
144+17,63	0,00	3,11	0.00	21,45	2018,51	4941,82	-2923,31
145+0,00	0,00	3,26	0.00	7,56	2018,51	4949,38	-2930,87
146+0,00	0,00	2,97	0.00	62,32	2018,51	5011,70	-2993,19
147+0,00	0,00	2,40	0.00	53,67	2018,51	5065,37	-3046,86
148+0,00	0,03	2,54	0.25	49,40	2018,77	5114,77	-3096,00
148+11,99	0,04	2,50	0.38	30,25	2019,14	5145,02	-3125,87
149+0,00	0,04	2,13	0.29	19,21	2019,43	5164,23	-3144,80
149+10,00	0,25	0,75	1.45	14,80	2020,88	5179,03	-3158,15
150+0,00	0,26	1,12	2.56	9,48	2023,44	5188,51	-3165,07
150+5,21	0,29	1,11	1.40	5,93	2024,84	5194,44	-3169,60
150+10,00	0,26	1,24	1.29	5,76	2026,13	5200,21	-3174,07
151+0,00	0,16	1,55	2.07	14,44	2028,20	5214,65	-3186,45
151+10,00	0,00	2,89	0.78	22,78	2028,98	5237,42	-3208,45
151+18,44	0,00	3,09	0.00	25,62	2028,98	5263,04	-3234,07
152+0,00	0,00	3,06	0.00	4,79	2028,98	5267,83	-3238,86
153+7,29	0,05	1,66	0.69	64,41	2029,66	5332,24	-3302,58
153+10,00	0,21	1,41	0.37	4,08	2030,04	5336,32	-3306,28



Autor do projeto:
BRUNO FRIGO PASINI
ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
4 / 5

Obra
R.M. MERCEDES MINATTO SCARDUELLI

Conteúdo
VOLUME TOTAL

Local
R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC

VOLUME TOTAL							
Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m3)	Volume de Aterro (m3)	Volum. Corte Acum. (m3)	Volum Aterro Acum. (m3)	Volume Líquido (m3)
154+0,00	0,40	1,00	3.21	11,76	2033,24	5348,08	-3314,83
154+5,26	0,16	1,05	1.54	5,31	2034,78	5353,39	-3318,60
154+10,00	0,12	1,21	0.70	5,31	2035,48	5358,69	-3323,22
155+0,00	0,01	1,49	0.70	13,46	2036,18	5372,16	-3335,98

REMOÇÃO E COMPLEMENTAÇÃO											
RM MERCEDES MINATTO SCARDUELLI EST 0+0,00 à 155+0,00											
LADO ESQUERDO						LADO DIREITO					
EST	EST	ÁREA	ESP.	TIPO	ESCAV.	EST	EST	ÁREA	ESP.	TIPO	ESCAV.
Início	Fim	[m²]	[M]	[H]	[m³]	Início	Fim	[m²]	[M]	[H]	[m³]
0+0,00	7+8,12	610,78	0,60	GRANJA	366,468	0+0,00	11+11,30	322,99	0,30	LOMBA	96,897
7+8,12	25+10,50	1105,25	0,30	LOMBA	331,575	13+12,80	28+7,35	455,50	0,30	LOMBA	136,65
25+10,50	34+8,30	635,50	0,60	GRANJA	381,3	28+7,35	34+9,00	172,22	0,60	GRANJA	103,332
34+8,30	40+13,00	418,67	0,30	LOMBA	125,601	34+9,00	69+17,90	1555,03	0,30	LOMBA	466,509
40+18,50	45+14,00	295,38	0,60	GRANJA	177,228	71+10,50	83+13,80	432,28	0,30	LOMBA	129,684
45+14,00	50+18,50	253,90	0,30	LOMBA	76,17	84+8,25	90+17,90	180,28	0,30	LOMBA	54,084
51+4,20	69+0,00	1185,65	0,60	GRANJA	711,39	90+17,90	92+9,00	53,21	1,50	GRANJA	79,815
69+0,00	81+10,00	934,13	0,30	LOMBA	280,239	92+9,00	100+16,30	461,40	0,30	LOMBA	138,42
81+10,00	91+9,00	836,97	0,60	GRANJA	502,182	101+11,80	106+17,80	177,78	0,30	LOMBA	53,334
91+9,00	93+0,00	107,40	0,30	LOMBA	32,22	107+9,30	114+5,20	250,18	0,30	LOMBA	75,054
93+0,00	106+17,00	710,77	0,60	GRANJA	426,462	114+5,20	122+3,00	385,22	0,60	GRANJA	231,132
106+17,00	110+19,00	198,95	0,30	LOMBA	59,685	122+10,50	130+0,00	529,27	0,60	GRANJA	317,562
110+19,00	114+2,85	200,98	0,60	GRANJA	120,588	130+0,00	134+12,50	127,19	0,30	LOMBA	38,157
114+16,25	133+0,00	992,74	0,60	GRANJA	595,644	138+0,00	140+4,00	37,58	0,30	LOMBA	11,274
133+0,00	135+8,50	165,26	0,60	GRANJA	99,156	141+15,00	149+4,50	512,91	0,60	GRANJA	307,746
135+17,00	153+5,50	1311,23	0,60	GRANJA	786,738	149+10,00	153+4,50	244,44	0,60	GRANJA	146,664
153+5,50	155+0,00	105,80	0,30	LOMBA	31,74	153+4,50	155+0,00	70,25	0,30	LOMBA	21,075
ÁREA TOTAL DE ESCAVAÇÃO (LD/LE) (m²)					16037,09	Espessura de remoção adicional nas Áreas de Cultivo de Arroz/Banhado/Fora do Leito Existente/Implantação Nova					
VOLUME TOTAL DE ESCAVAÇÃO (m³)					7511,78						

ELEMENTOS GEOMÉTRICOS - ALI - RM MERCEDES MINATTO

Nº	DEFLEXÃO/ AZIMUTE	LC (m)	TT (m)	TL (m)	TC (m)	R (m)	D/L (m)	AC	TE-PC	ET-PT	PONTO	PI	TE-PC	ET-PT
L1	211° 56' 58.07"	-	-	-	-	-	127,093	-	0+0,000	6+7,093	N E	-	6817027,1302 639353,5155	6816919,2902 639286,2618
C-1	-	-	2,252	-	-	100,000	42,052	024° 05' 39.08"	6+7,093	8+9,145	N E	6816901,1816 639274,9684	6816919,2902 639286,2618	6816880,0403 639272,0516
L2	187° 51' 18.99"	-	-	-	-	-	50,749	-	8+9,145	10+19,894	N E	-	6816880,0403 639272,0516	6816829,7672 639265,1157
C-2	-	-	2,479	-	-	54,000	32,114	034° 04' 27.91"	10+19,894	12+12,008	N E	6816813,3747 639262,8541	6816829,7672 639265,1157	6816801,0637 639251,7965
L3	221° 55' 46.91"	-	-	-	-	-	59,846	-	12+12,008	15+11,855	N E	-	6816801,0637 639251,7965	6816756,5401 639211,8061
C-3	-	-	1,497	-	-	150,000	42,210	016° 07' 22.54"	15+11,855	17+14,065	N E	6816740,7344 639197,6097	6816756,5401 639211,8061	6816721,6080 639188,3608
L4	205° 48' 24.37"	-	-	-	-	-	36,312	-	17+14,065	19+10,377	N E	-	6816721,6080 639188,3608	6816688,9173 639172,5528
C-4	-	-	1,164	-	-	196,000	42,619	012° 27' 31.37"	19+10,377	21+12,996	N E	6816669,6570 639163,2391	6816688,9173 639172,5528	6816648,8409 639158,3000
L5	193° 20' 53.00"	-	-	-	-	-	310,964	-	21+12,996	37+3,960	N E	-	6816648,8409 639158,3000	6816346,2777 639086,5091
C-5	-	-	0,352	-	-	903,000	50,417	003° 11' 56.38"	37+3,960	39+14,377	N E	6816321,7437 639080,6878	6816346,2777 639086,5091	6816297,5728 639073,5064
L6	196° 32' 49.37"	-	-	-	-	-	25,507	-	39+14,377	40+19,884	N E	-	6816297,5728 639073,5064	6816273,1221 639066,2419
C-6	-	-	0,541	-	-	464,000	44,800	005° 31' 55.07"	40+19,884	43+4,684	N E	6816251,6332 639059,8575	6816273,1221 639066,2419	6816229,6290 639055,5742
L7	191° 00' 54.30"	-	-	-	-	-	110,045	-	43+4,684	48+14,729	N E	-	6816229,6290 639055,5742	6816121,6112 639034,5482
C-7	-	-	1,744	-	-	170,000	48,496	016° 20' 41.67"	48+14,729	51+3,225	N E	6816097,6471 639029,8835	6816121,6112 639034,5482	6816073,3387 639032,1513
L8	174° 40' 12.63"	-	-	-	-	-	110,653	-	51+3,225	56+13,878	N E	-	6816073,3387 639032,1513	6815963,1640 639042,4297
C-8	-	-	2,832	-	-	110,000	49,394	025° 43' 41.18"	56+13,878	59+3,273	N E	6815938,1519 639044,7632	6815963,1640 639042,4297	6815916,6323 639057,7231
L9	148° 56' 31.45"	-	-	-	-	-	105,387	-	59+3,273	64+8,660	N E	-	6815916,6323 639057,7231	6815826,3529 639112,0927
C-9	-	-	2,914	-	-	132,000	54,970	023° 51' 37.36"	64+8,660	67+3,630	N E	6815802,4616 639126,4810	6815826,3529 639112,0927	6815786,4323 639149,3038
L10	125° 04' 54.08"	-	-	-	-	-	24,785	-	67+3,630	68+8,415	N E	-	6815786,4323 639149,3038	6815772,1873 639169,5862
C-10	-	-	3,876	-	-	91,000	52,202	032° 52' 04.49"	68+8,415	71+0,617	N E	6815756,7604 639191,5514	6815772,1873 639169,5862	6815731,8824 639201,6282
L11	157° 56' 58.57"	-	-	-	-	-	84,573	-	71+0,617	75+5,190	N E	-	6815731,8824 639201,6282	6815653,4956 639233,3788
C-11	-	-	1,437	-	-	150,000	41,360	015° 47' 54.32"	75+5,190	77+6,550	N E	6815634,2058 639241,1921	6815653,4956 639233,3788	6815613,5175 639243,4585
L12	173° 44' 52.89"	-	-	-	-	-	54,390	-	77+6,550	80+0,940	N E	-	6815613,5175 639243,4585	6815559,4510 639249,3817
C-12	-	-	2,372	-	-	100,000	43,134	024° 42' 50.28"	80+0,940	82+4,074	N E	6815537,6736 639251,7674	6815559,4510 639249,3817	6815518,8883 639263,0396



Autor do projeto:
BRUNO FRIGO PASINI
ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
1 / 2

Obra

R.M. MERCEDES MINATTO SCARDUELLI

Conteúdo

ELEMENTOS GEOMÉTRICOS

Local

R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC

ELEMENTOS GEOMÉTRICOS - ALI - RM MERCEDES MINATTO														
Nº	DEFLEXÃO/ AZIMUTE	LC (m)	TT (m)	TL (m)	TC (m)	R (m)	D/L (m)	AC	TE-PC	ET-PT	PONTO	PI	TE-PC	ET-PT
L13	149° 02' 02.61"	-	-	-	-	-	49,359	-	82+4,074	84+13,433	N E	-	6815518,8883 639263,0396	6815476,5644 639288,4361
C-13	-	-	1,928	-	-	150,000	47,850	018° 16' 38.79"	84+13,433	87+1,284	N E	6815455,8735 639300,8517	6815476,5644 639288,4361	6815440.1202 639319,1300
L14	130° 45' 23.82"	-	-	-	-	-	271,783	-	87+1,284	100+13,066	N E	-	6815440,1202 639319,1300	6815262,6876 639525,0026
C-14	-	-	4,331	-	-	105,000	59,303	032° 21' 36.68"	100+13,066	103+12,369	N E	6815242,7981 639548,0801	6815262,6876 639525,0026	6815213.6455 639556,9281
L15	163° 07' 00.51"	-	-	-	-	-	185,370	-	103+12,369	112+17,740	N E	-	6815213,6455 639556,9281	6815036,2647 639610,7636
C-15	-	-	3,100	-	-	110,000	51,626	026° 53' 24.82"	112+17,740	115+9,365	N E	6815011,1009 639618,4009	6815036,2647 639610,7636	6814985.2038 639613,8312
L16	190° 00' 25.32"	-	-	-	-	-	149,170	-	115+9,365	122+18,535	N E	-	6814985,2038 639613,8312	6814838,3030 639587,9101
C-16	-	-	3,444	-	-	290,000	88,952	017° 34' 27.55"	122+18,535	127+7,487	N E	6814794,1572 639580,1204	6814838,3030 639587,9101	6814749.7198 639586,0238
L17	172° 25' 57.77"	-	-	-	-	-	42,953	-	127+7,487	129+10,441	N E	-	6814749,7198 639586,0238	6814707,1404 639591,6803
C-18	-	-	0,843	-	-	510,000	58,603	006° 35' 01.32"	129+10,441	132+9,043	N E	6814678,0623 639595,5433	6814707,1404 639591,6803	6814649.6188 639602,7147
L18	165° 50' 56.45"	-	-	-	-	-	28,297	-	132+9,043	133+17,340	N E	-	6814649,6188 639602,7147	6814622,1805 639609,6327
C-17	-	-	9,507	-	-	40,000	50,408	072° 12' 16.44"	133+17,340	136+7,749	N E	6814593,8947 639616,7644	6814622,1805 639609,6327	6814578.4596 639592,0116
L19	238° 03' 12.90"	-	-	-	-	-	101,481	-	136+7,749	141+9,229	N E	-	6814578,4596 639592,0116	6814524,7636 639505,9009
C-19	-	-	2,301	-	-	256,000	68,396	015° 18' 28.23"	141+9,229	144+17,625	N E	6814506,5601 639476,7085	6814524,7636 639505,9009	6814481.2955 639453,3576
L20	222° 44' 44.67"	-	-	-	-	-	74,362	-	144+17,625	148+11,988	N E	-	6814481,2955 639453,3576	6814426,6858 639402,8845
C-20	-	-	10,544	-	-	60,000	66,455	063° 27' 33.78"	148+11,988	151+18,442	N E	6814399,4408 639377,7032	6814426,6858 639402,8845	6814364.7392 639390,8252
L21	159° 17' 10.89"	-	-	-	-	-	28,848	-	151+18,442	153+7,291	N E	-	6814364,7392 639390,8252	6814337,7555 639401,0289
C-21	-	-	2,009	-	-	82,000	35,939	025° 06' 41.55"	153+7,291	155+3,229	N E	6814320,6733 639407,4883	6814337,7555 639401,0289	6814302.4644 639406,0879
L22	184° 23' 52.45"	-	-	-	-	-	22,226	-	155+3,229	156+5,455	N E	-	6814302,4644 639406,0879	6814280,3042 639404,3836
C-23	-	-	4,344	-	-	66,000	46,634	040° 29' 01.78"	156+5,455	158+12,089	N E	6814256,0378 639402,5173	6814280,3042 639404,3836	6814238.7927 639385,3432
L23	224° 52' 54.23"	-	-	-	-	-	82,015	-	158+12,089	162+14,105	N E	-	6814238,7927 639385,3432	6814180,6794 639327,4693
C-22	-	-	0,797	-	-	485,000	55,588	006° 34' 00.94"	162+14,105	165+9,693	N E	6814160,9639 639307,8351	6814180,6794 639327,4693	6814139.1324 639290,5844
L24	218° 18' 53.29"	-	-	-	-	-	10,307	-	165+9,693	166+0,000	N E	-	6814139,1324 639284,1940	6814131,0450 639284,1940

PROJETO DE PAVIMENTAÇÃO
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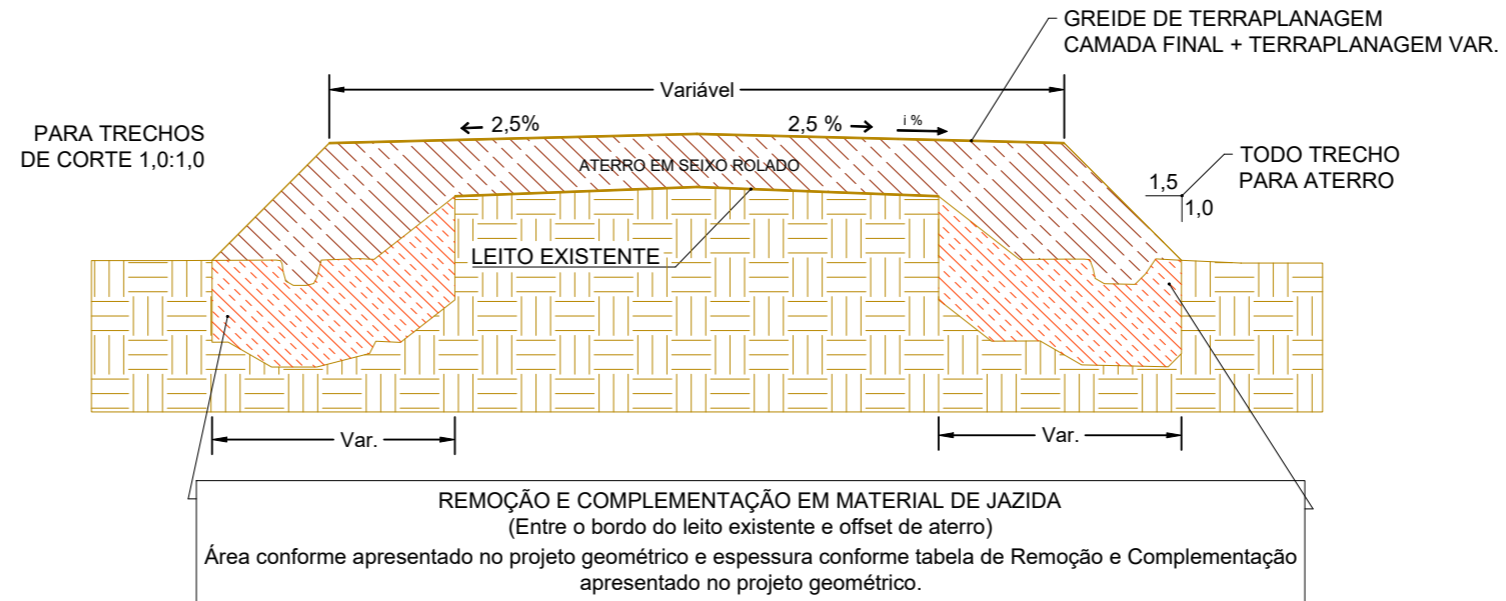
PROJETO DE TERRAPLENAGEM

-- Seções Tipo

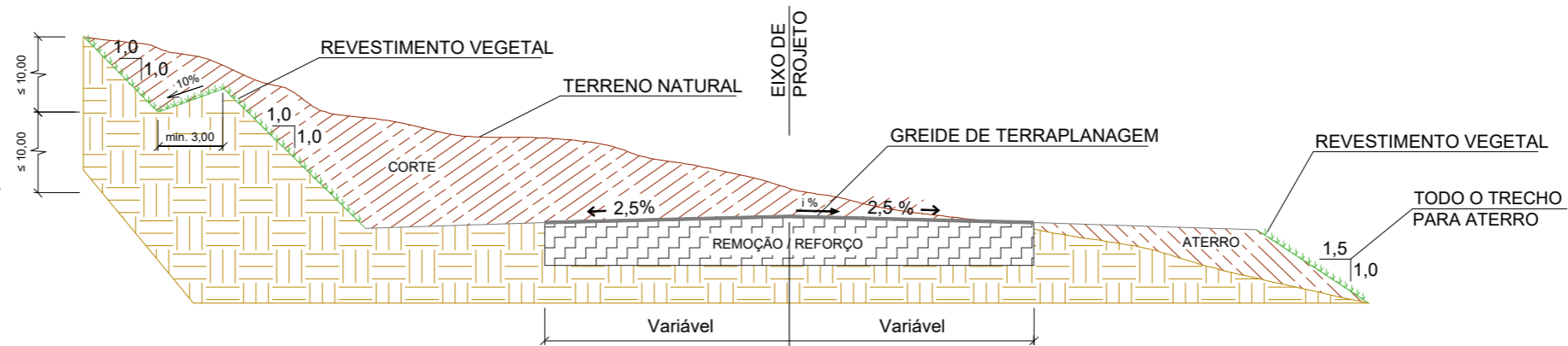
-- Seções de projeto

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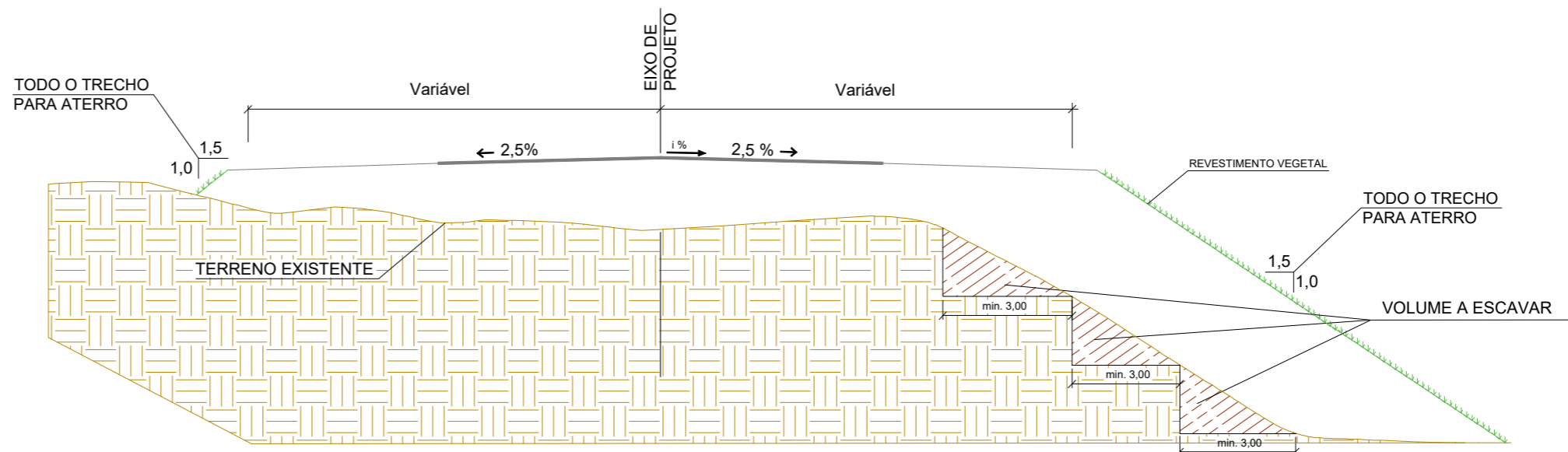
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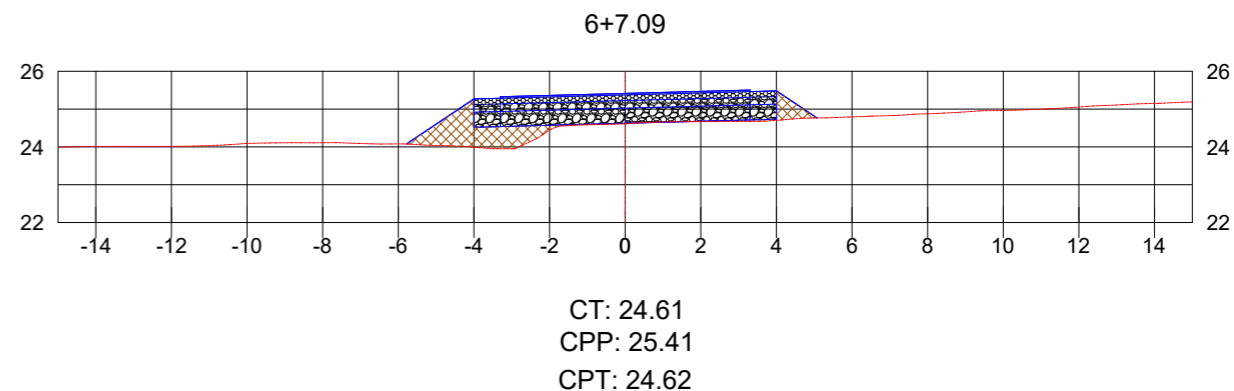
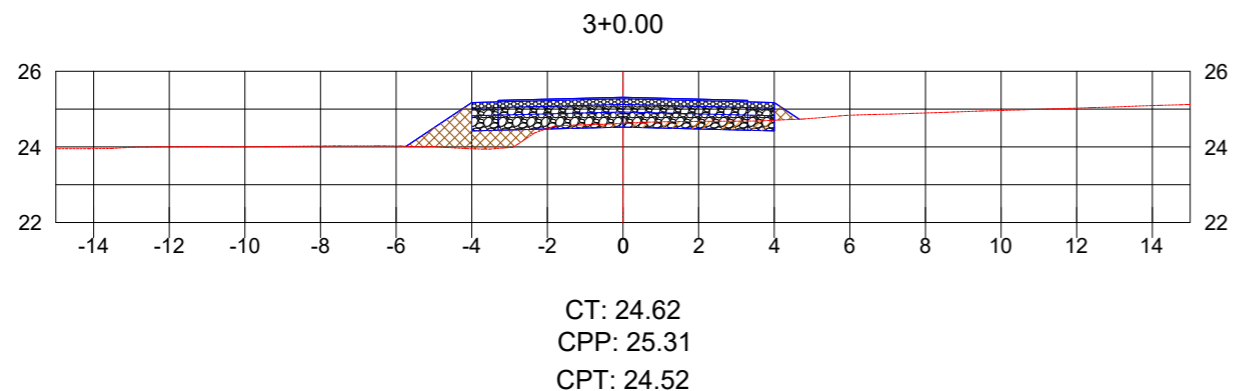
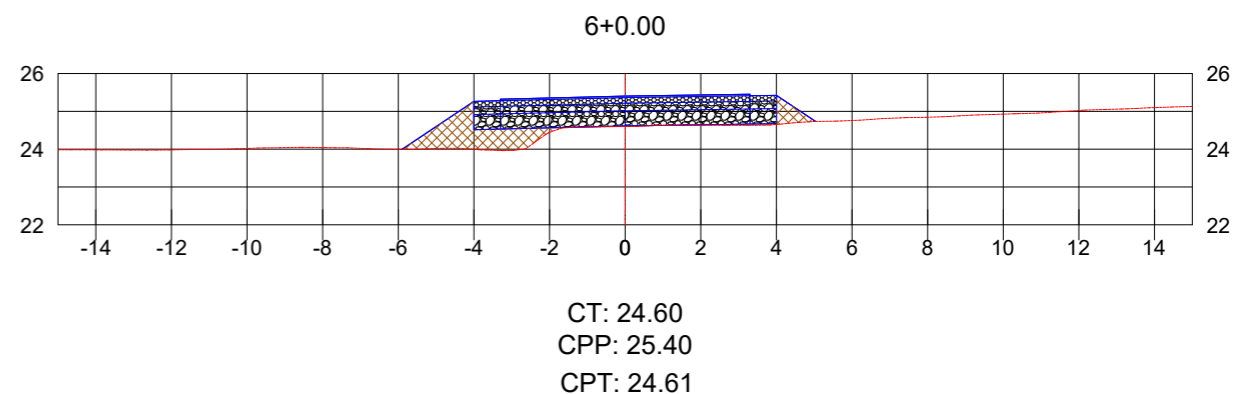
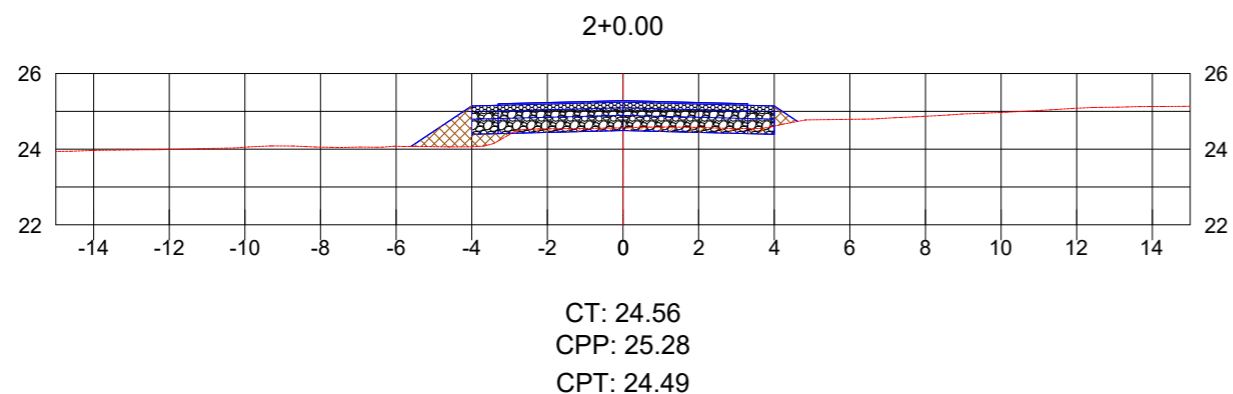
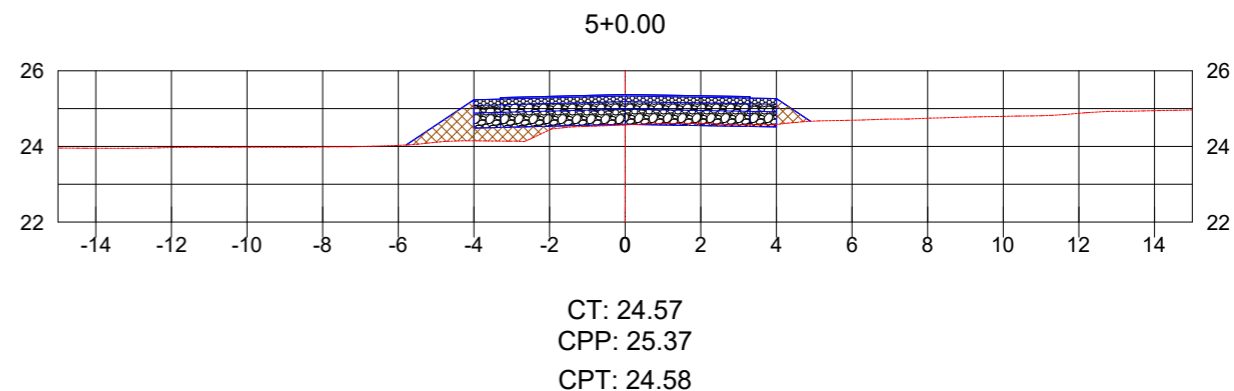
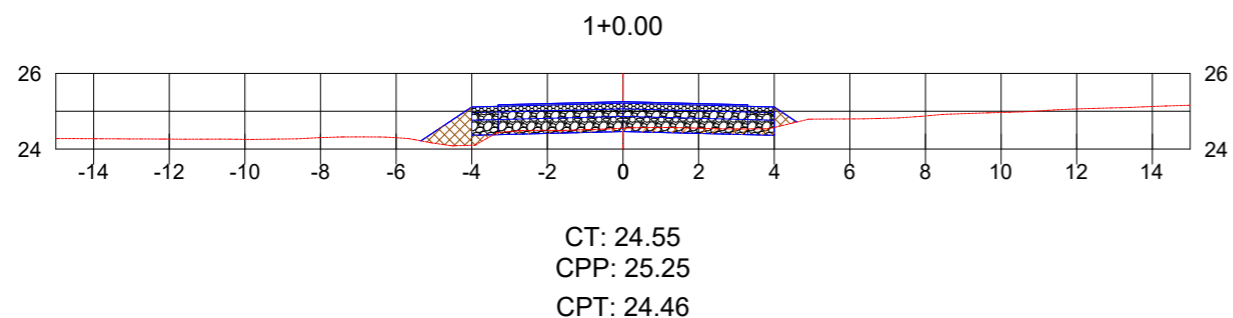
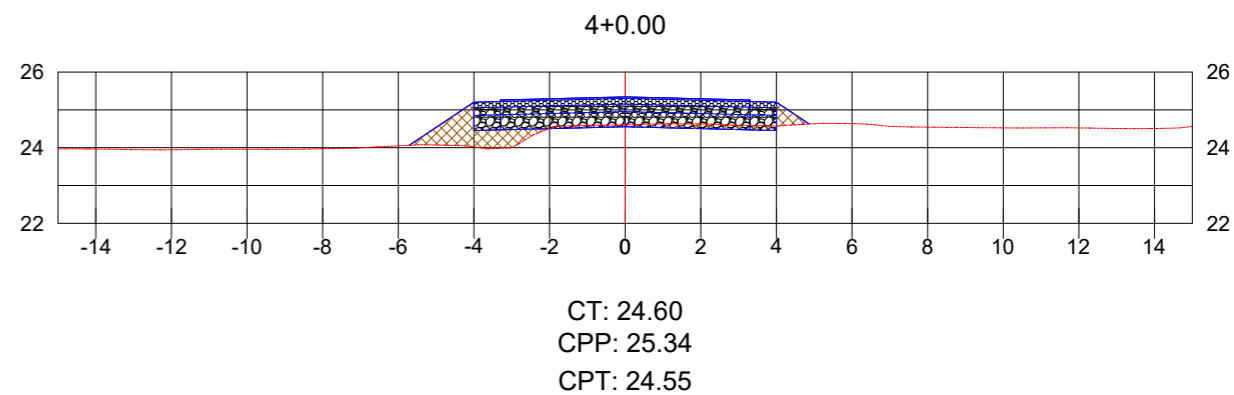
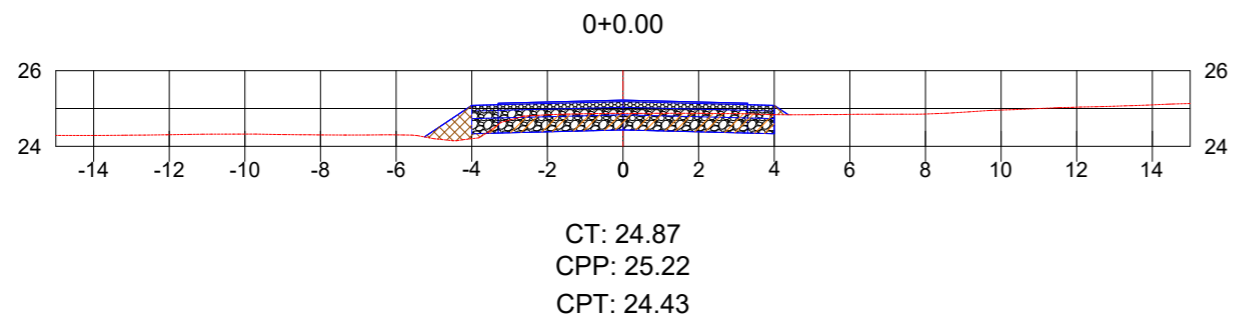


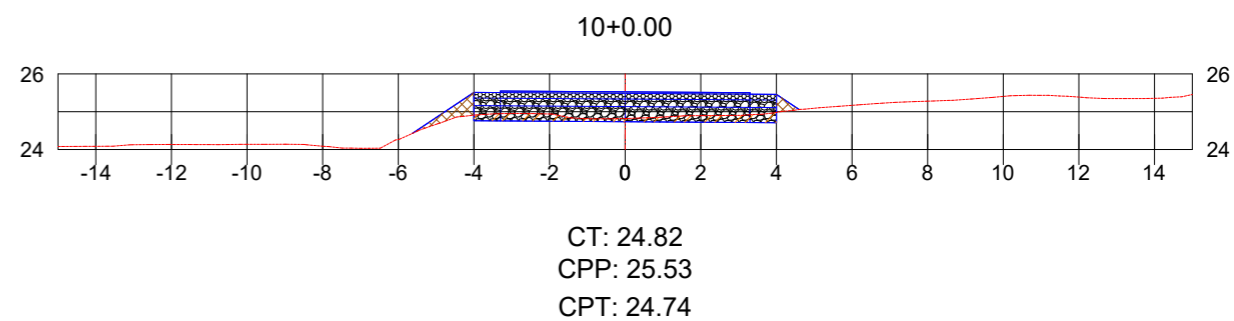
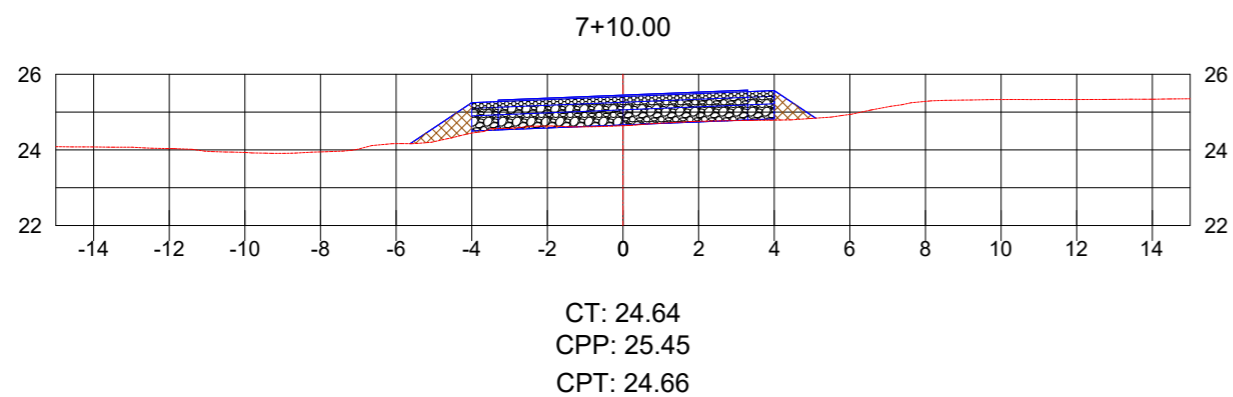
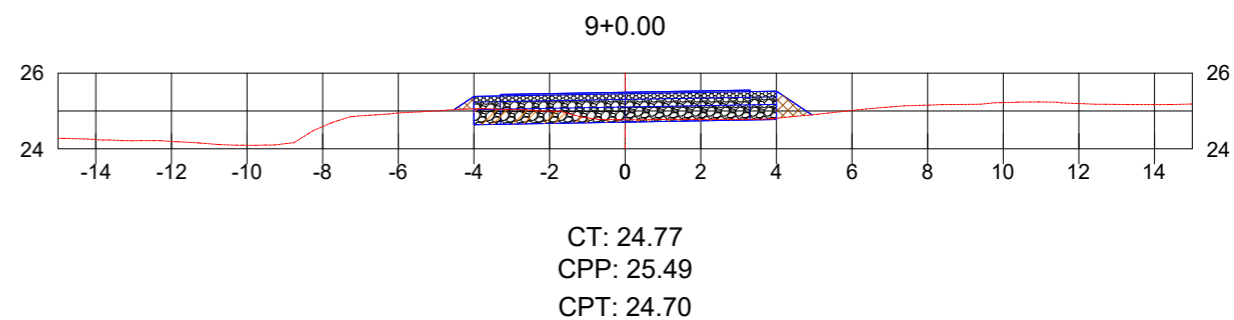
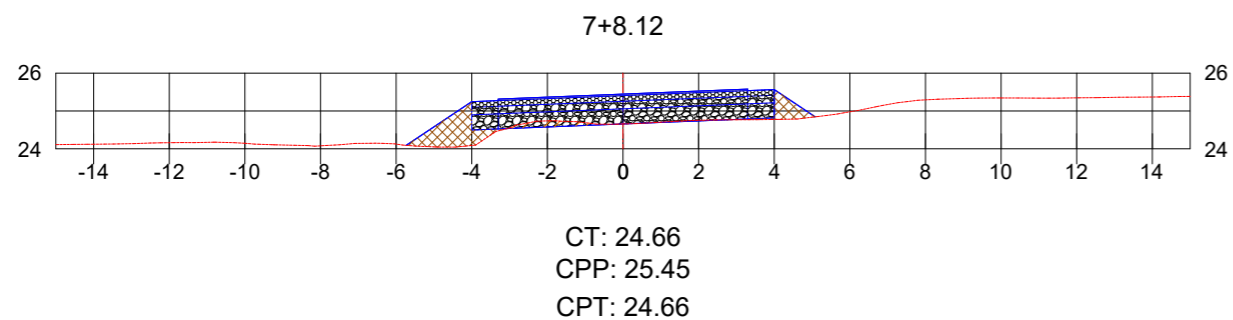
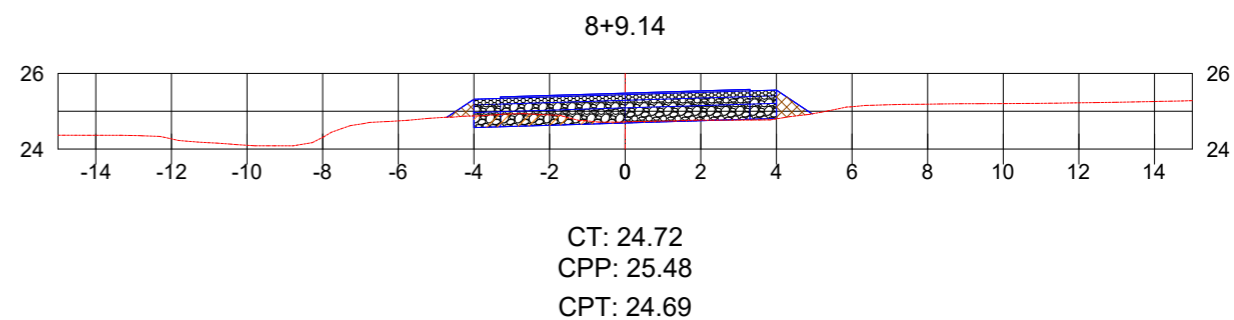
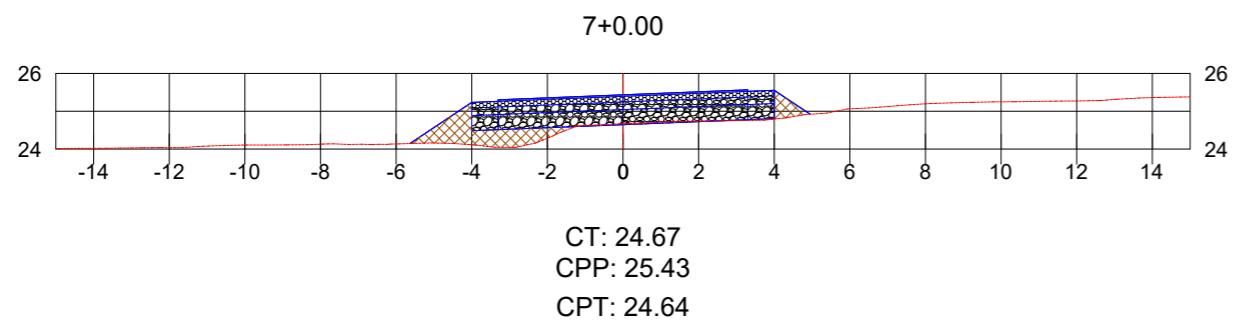
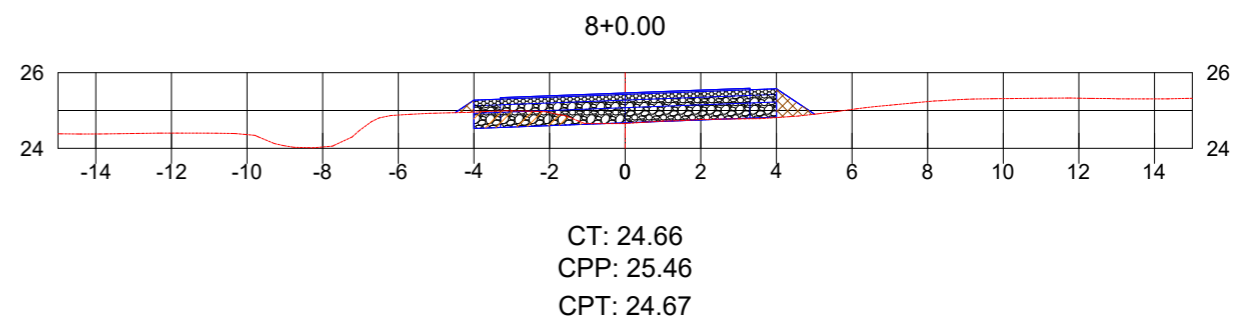
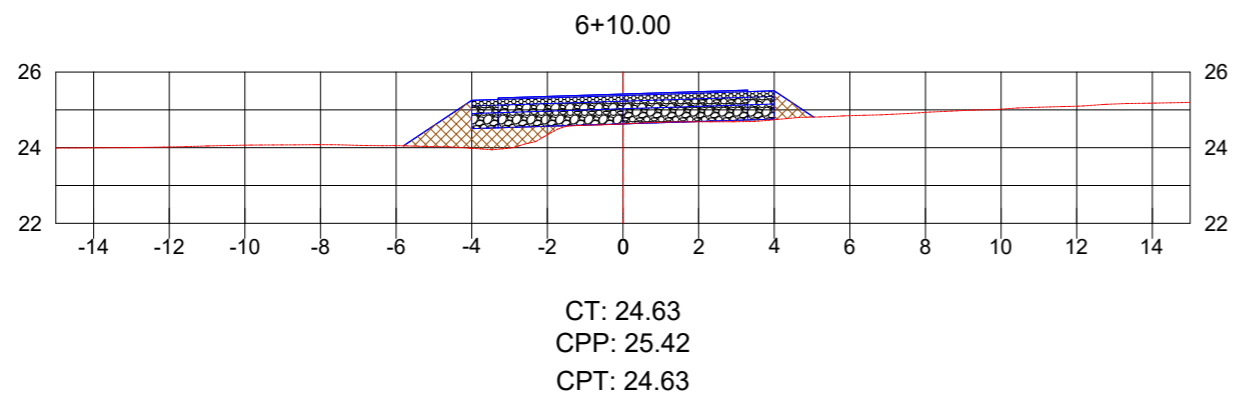
SEÇÃO EM SOLO REMOÇÃO E REFORÇO TOTAL DA PLATAFORMA (SEÇÃO MISTA)

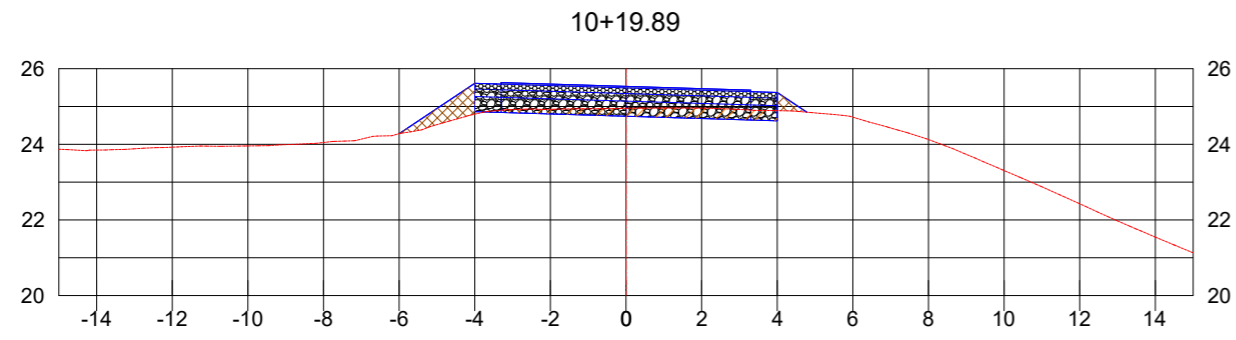


ALARGAMENTO DE ATERRO (BANQUETEAMENTO)

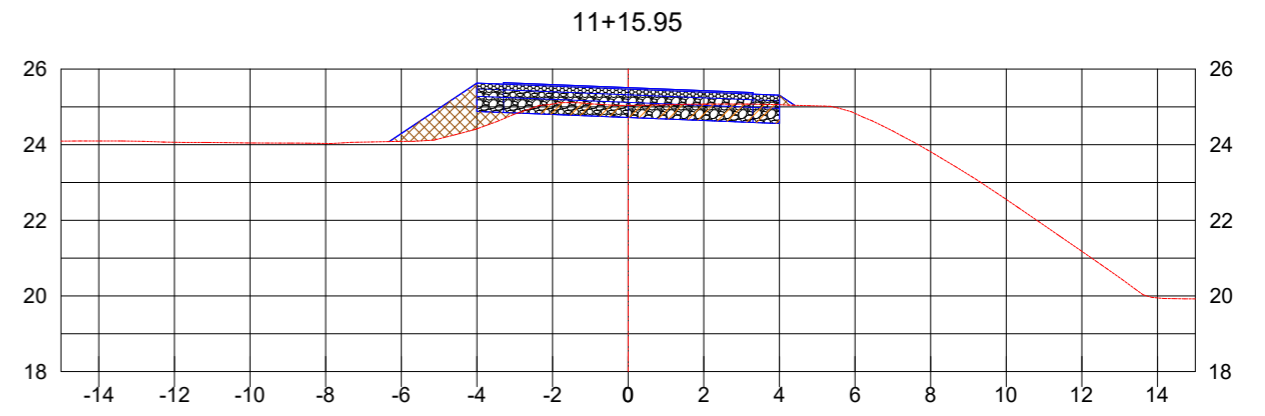




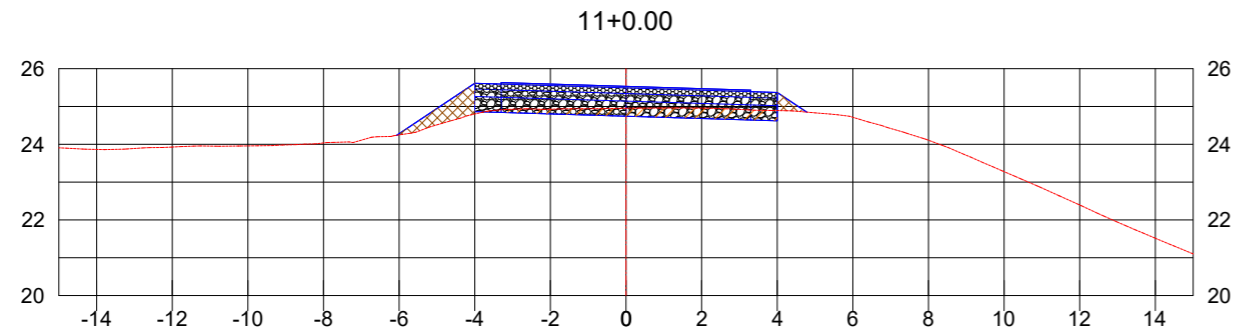




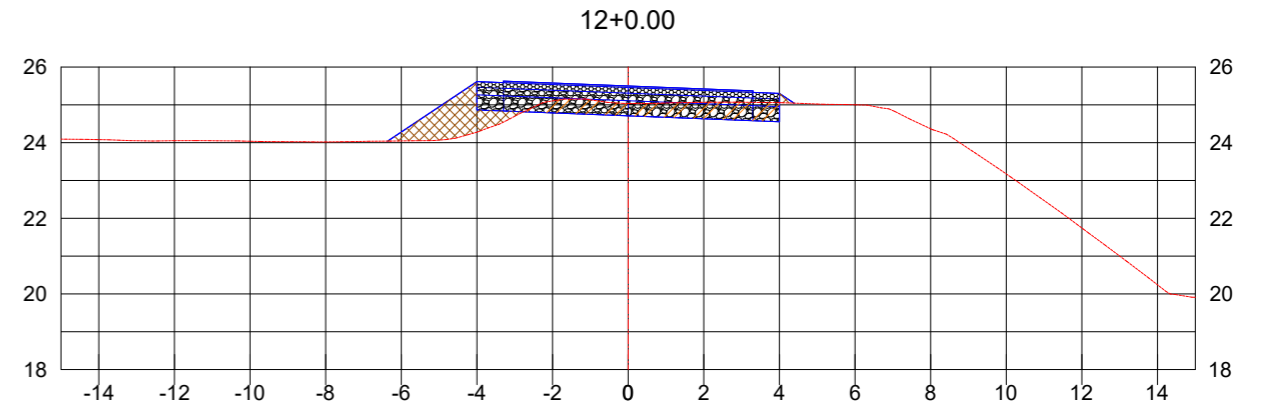
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 CPT: 24.74



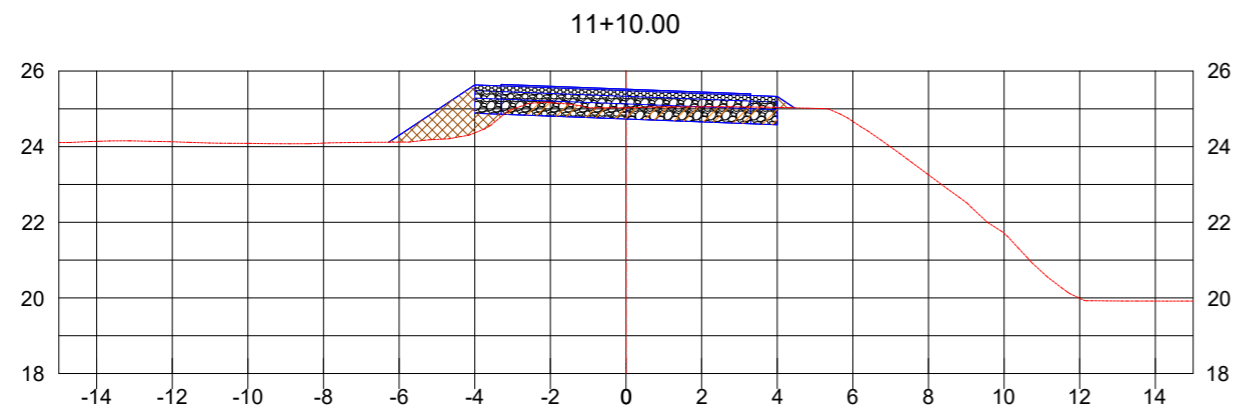
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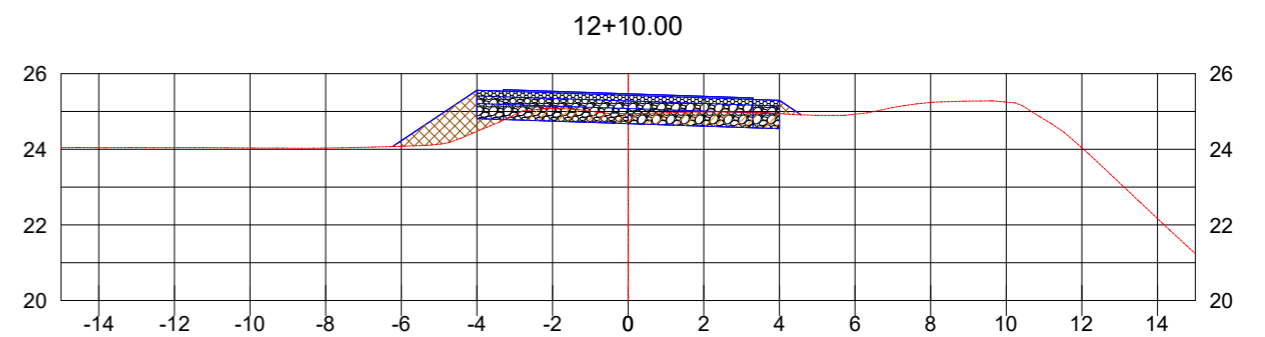
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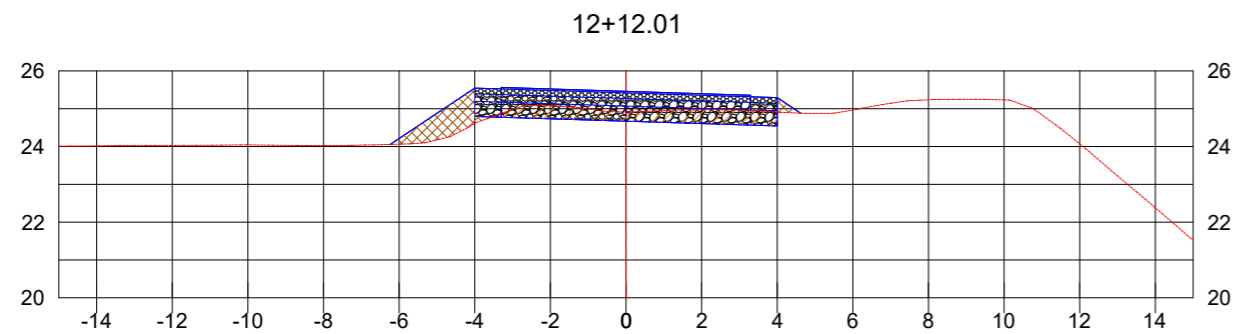
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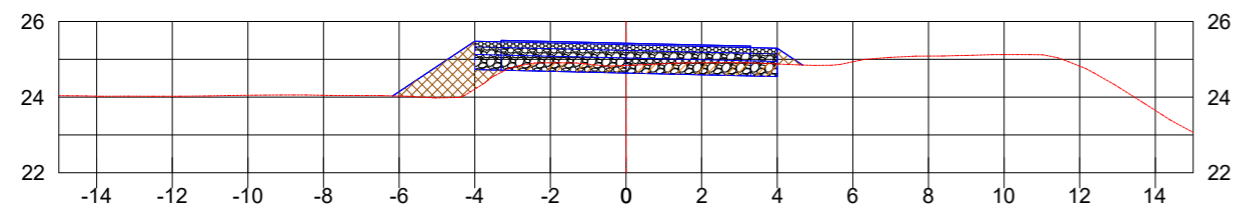
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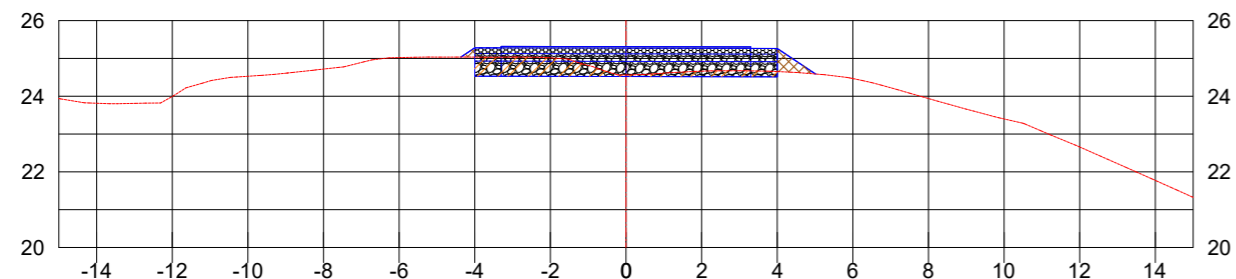
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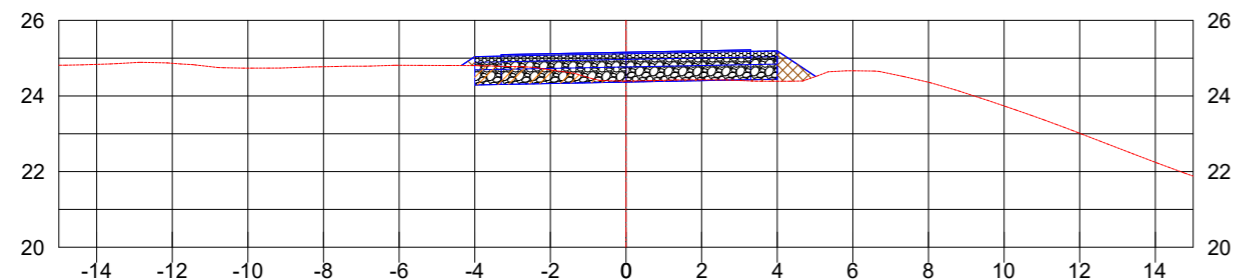
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 13+0.00



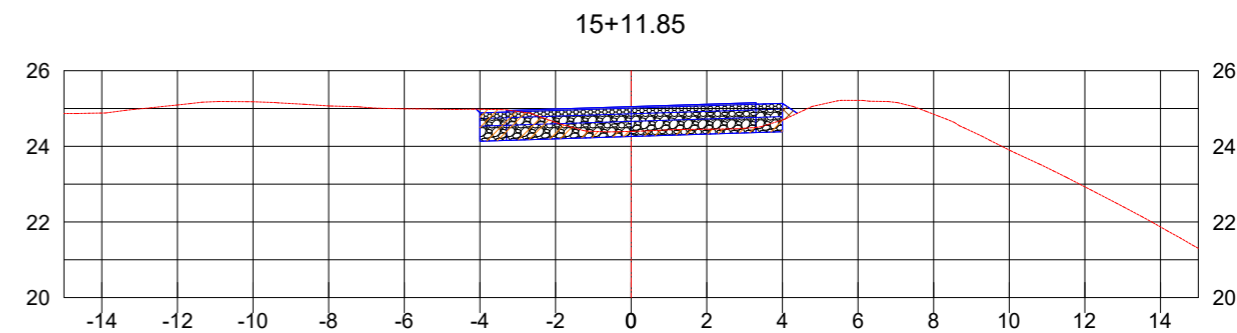
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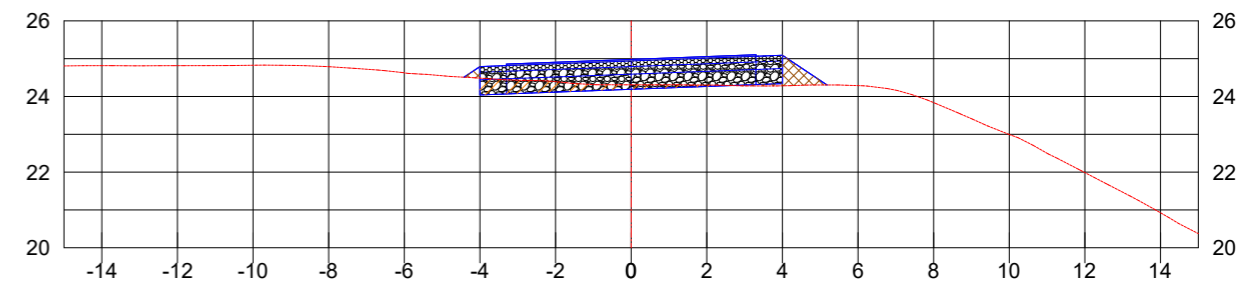
CT: 24.56
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 15+0.00



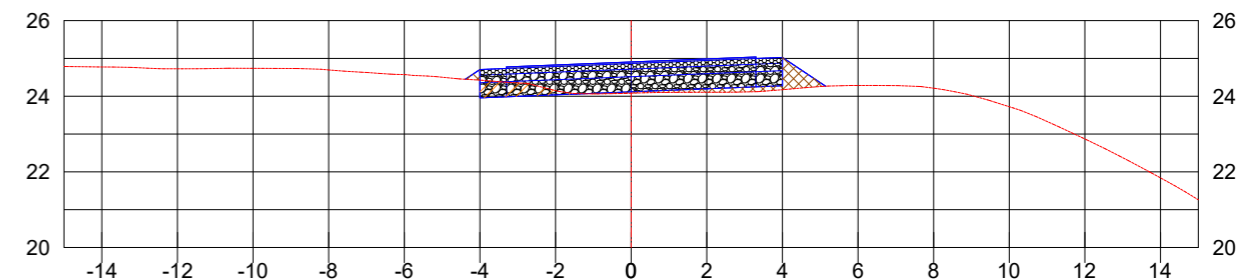
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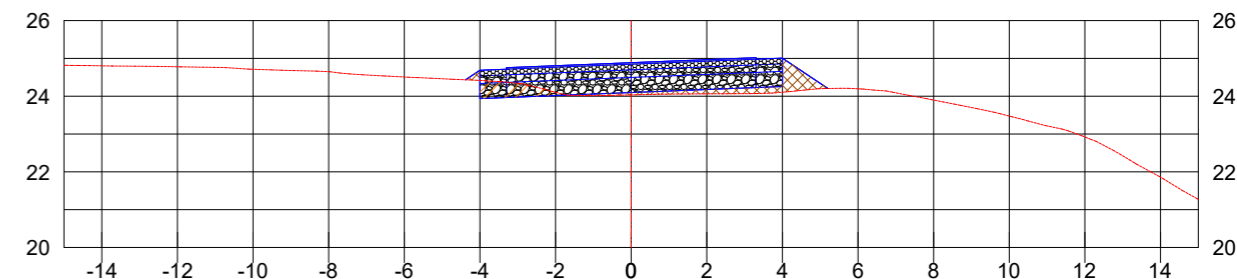
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 16+0.00



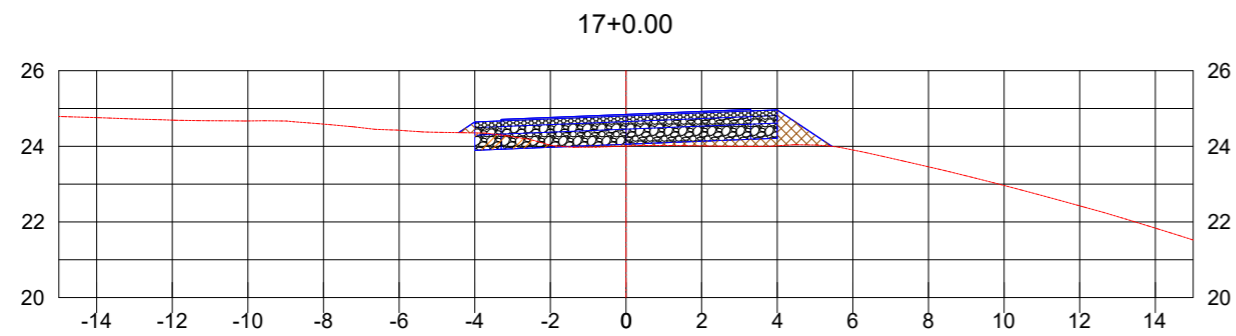
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 16+10.00



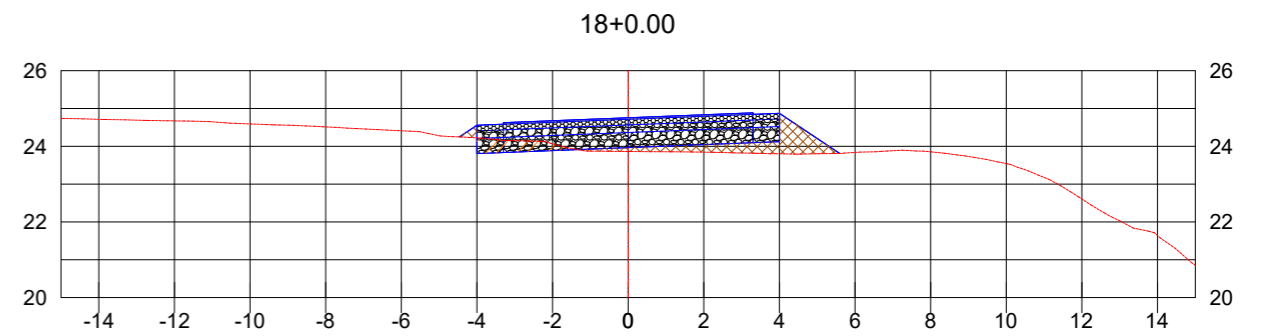
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 CPT: 24.12
 16+12.96



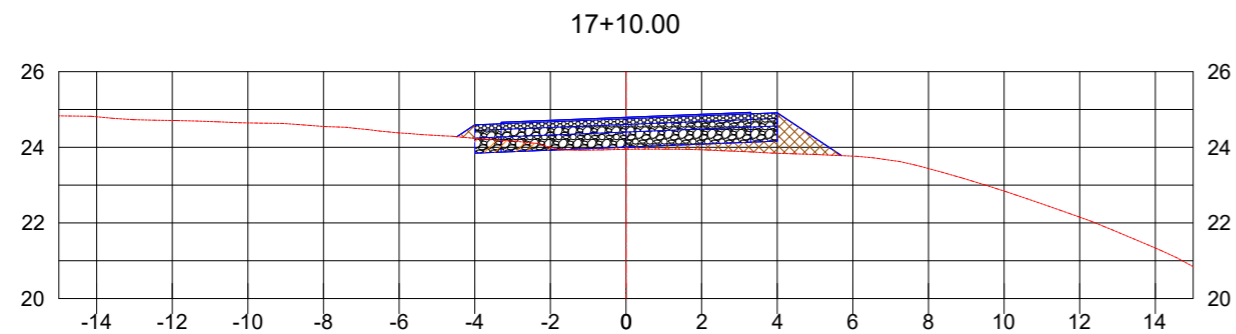
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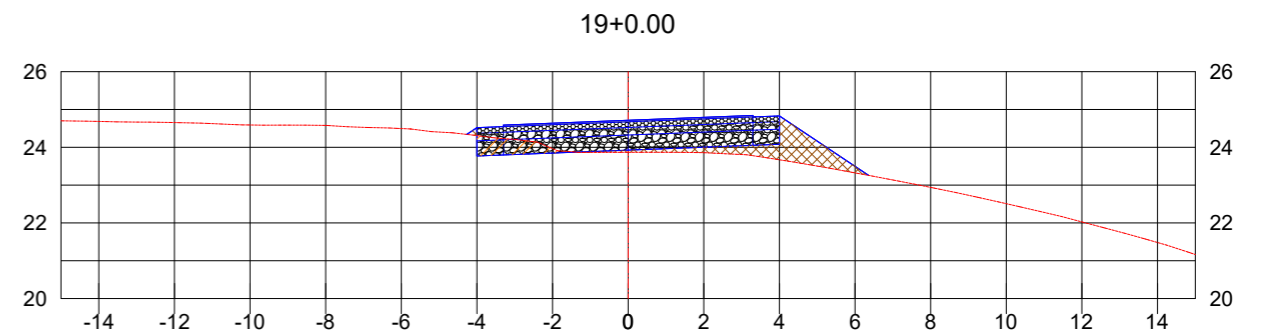
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 CPT: 24.05



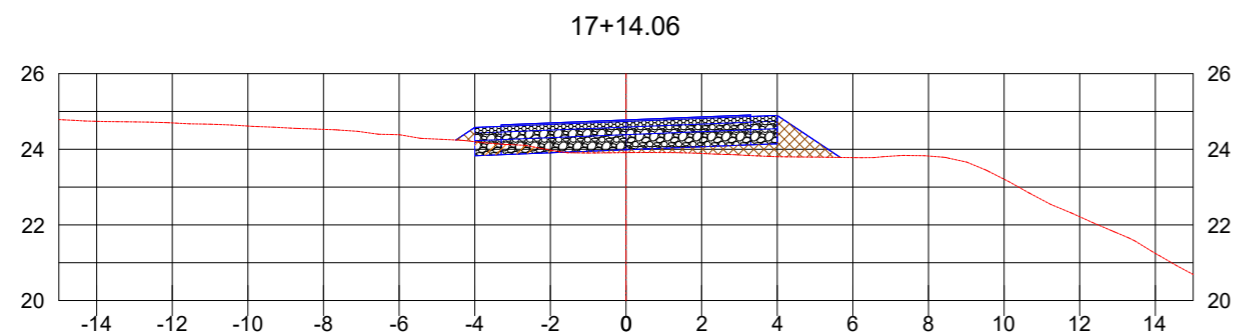
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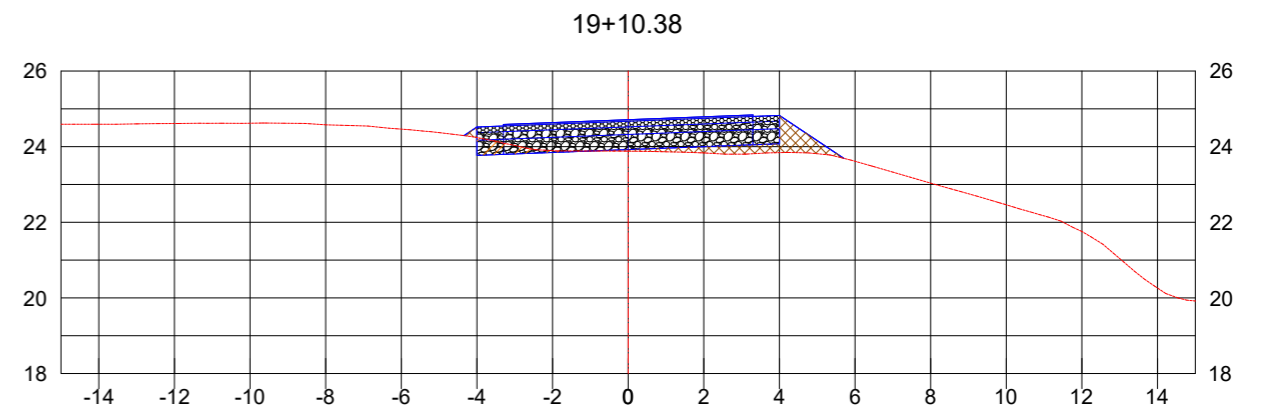
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 CPT: 24.00



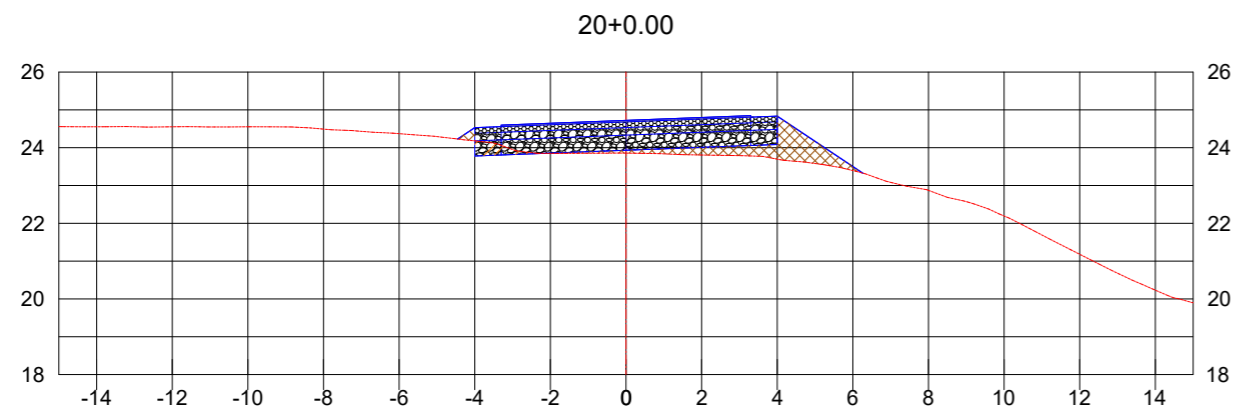
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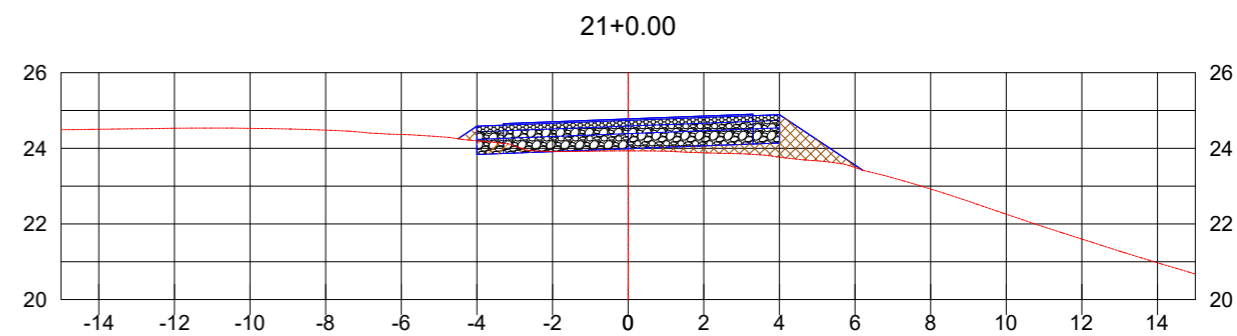
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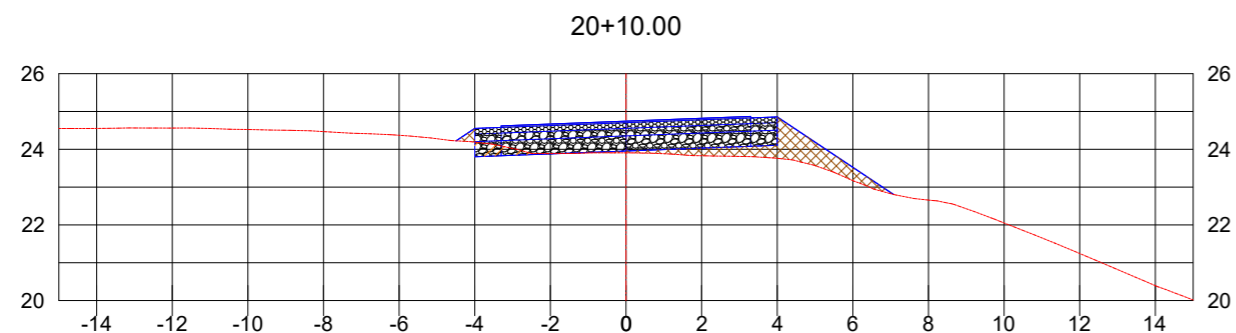
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 CPT: 23.92



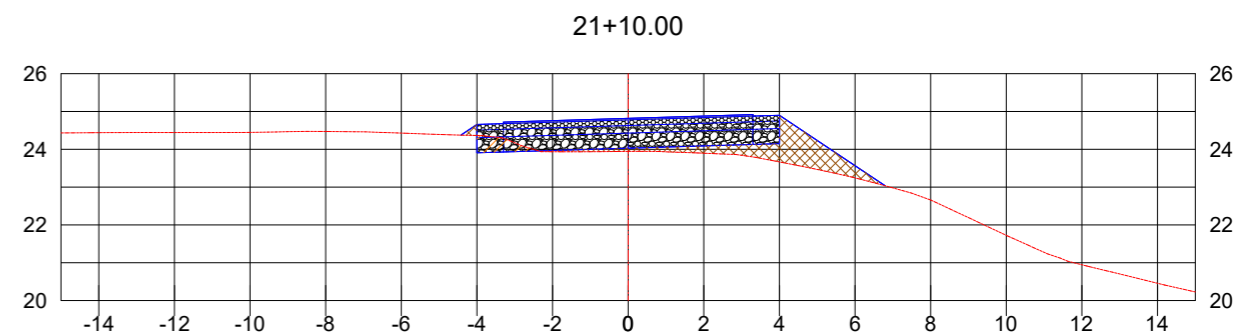
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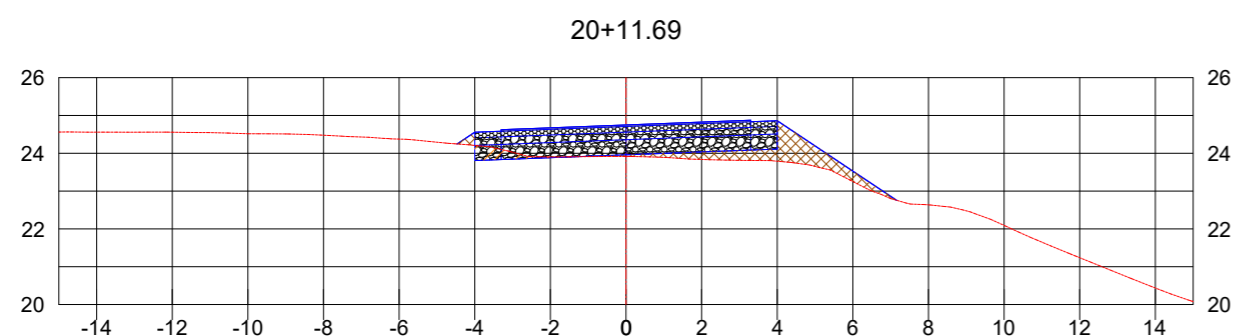
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 CPT: 23.99



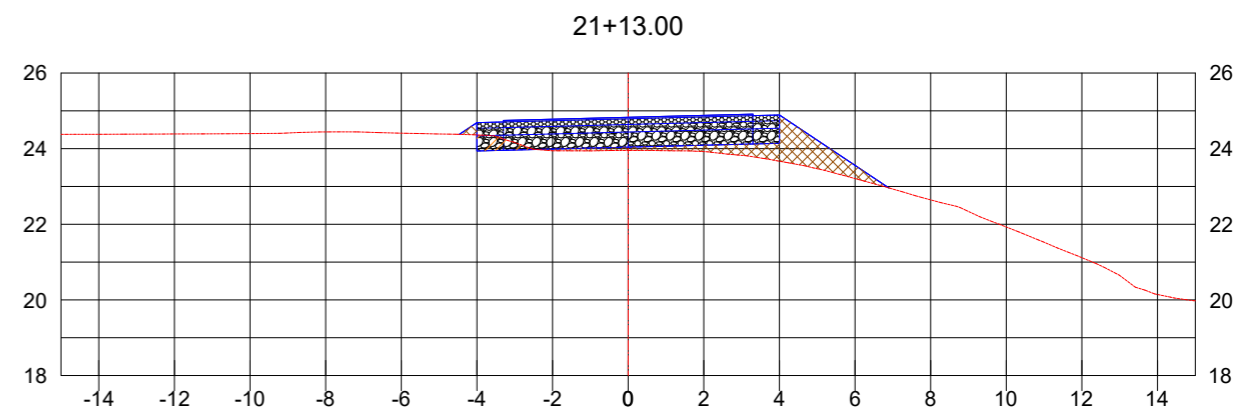
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 CPT: 23.95



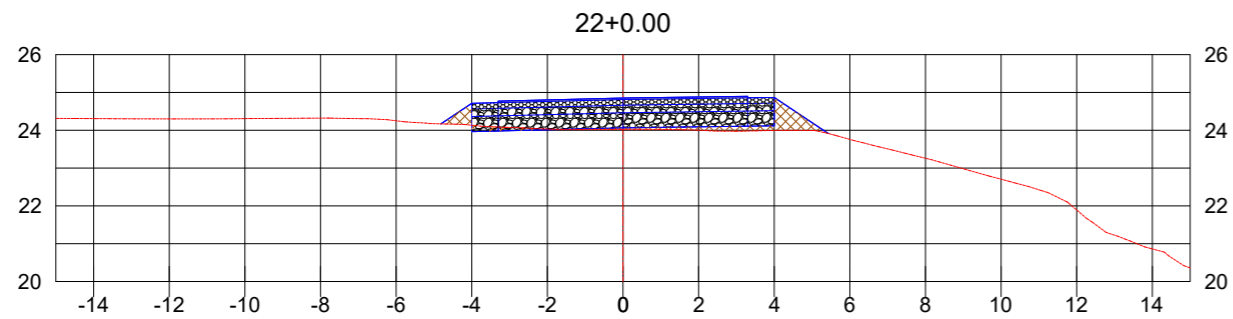
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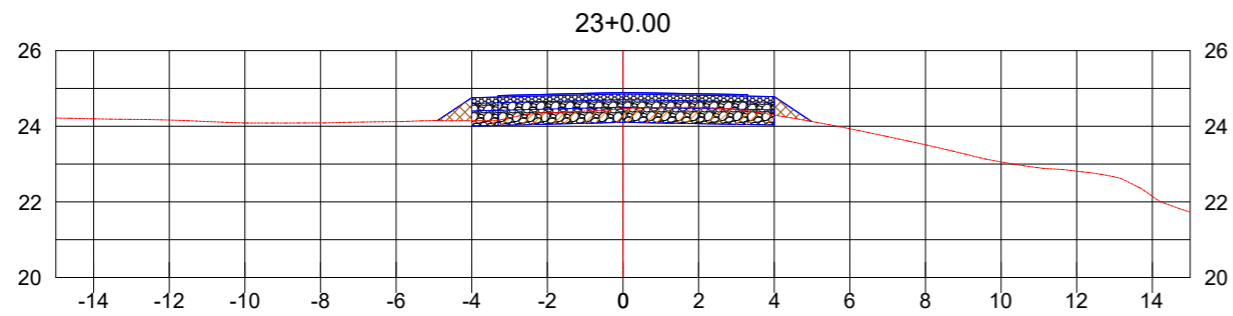
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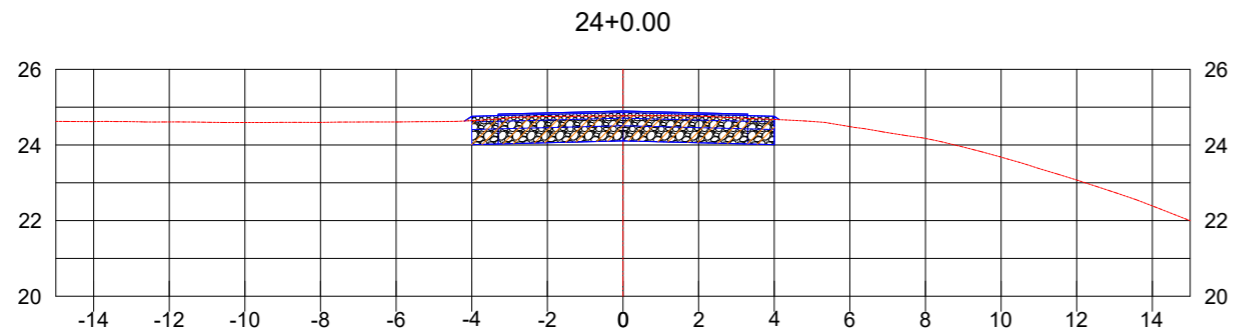
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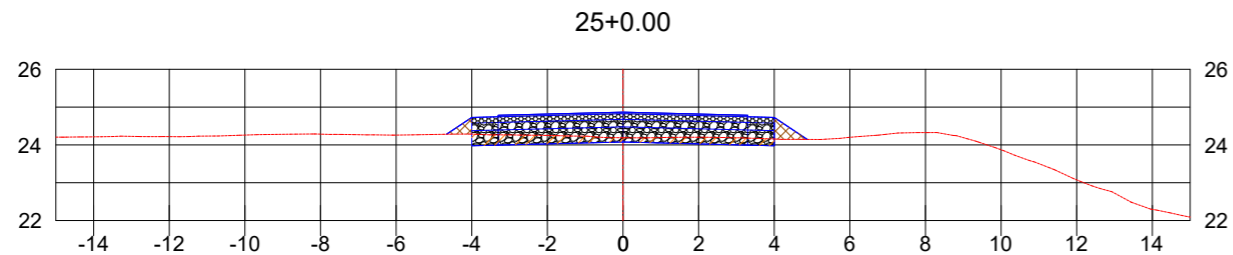
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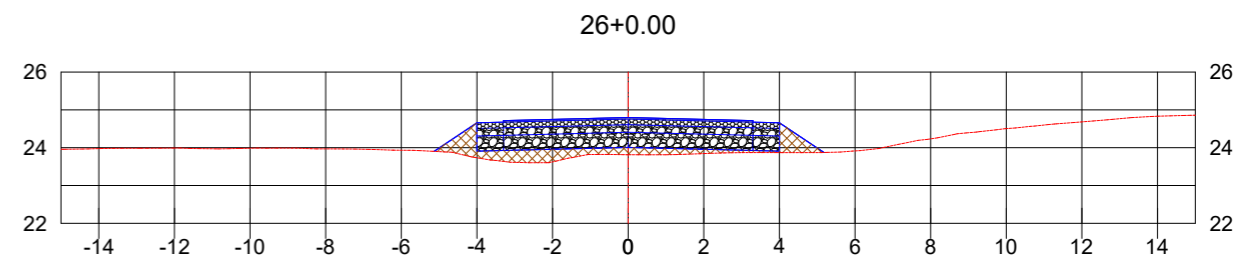
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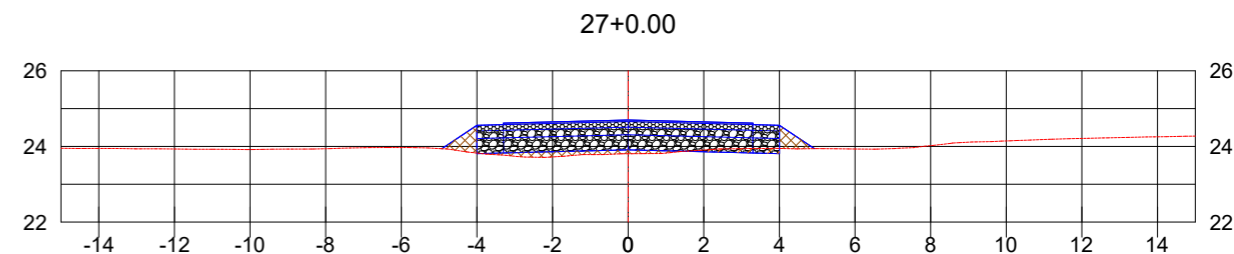
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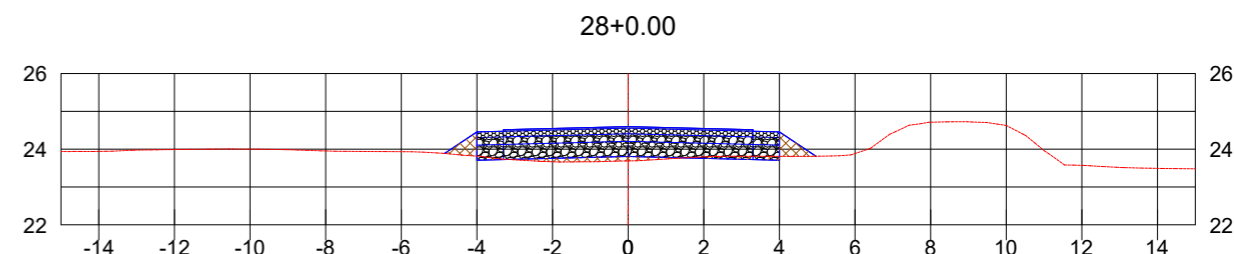
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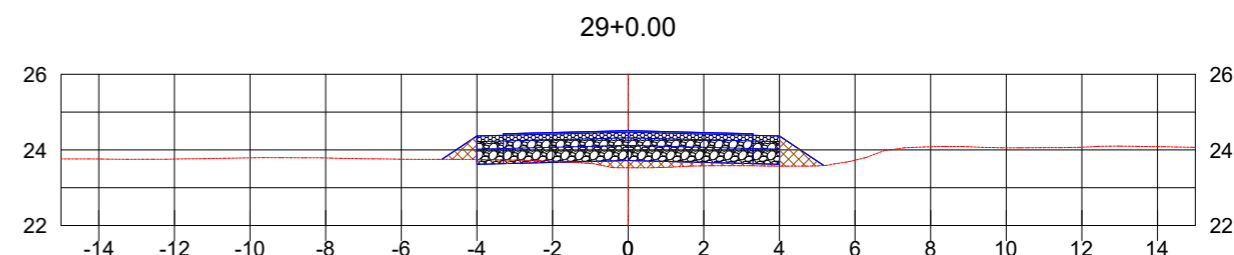
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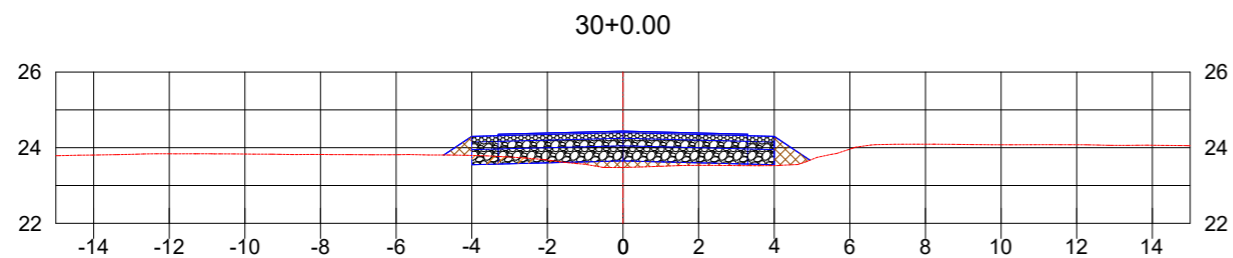
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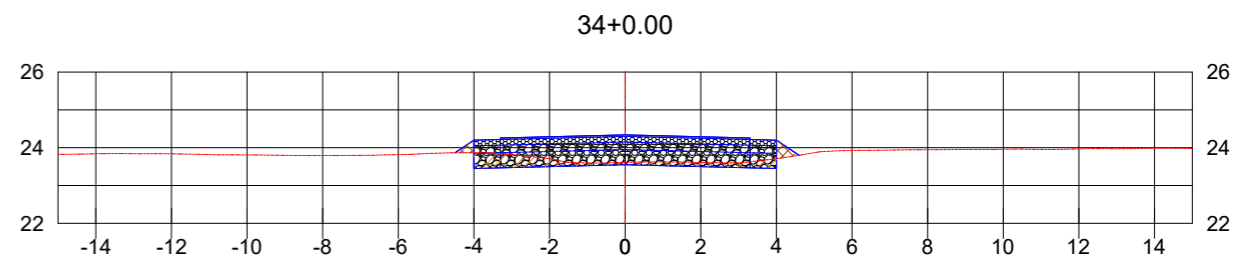
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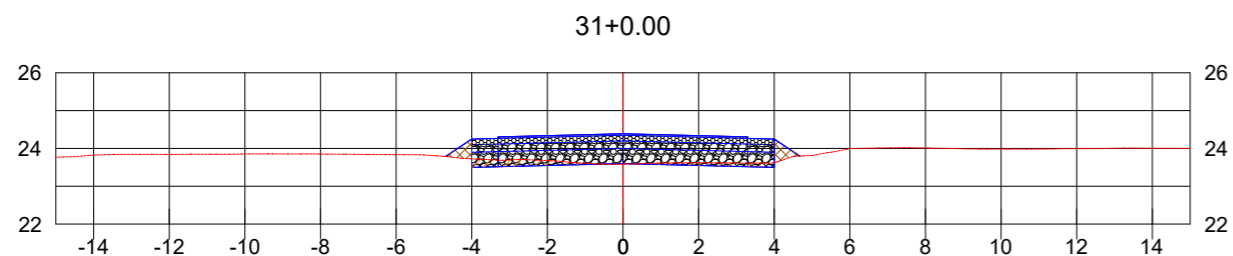
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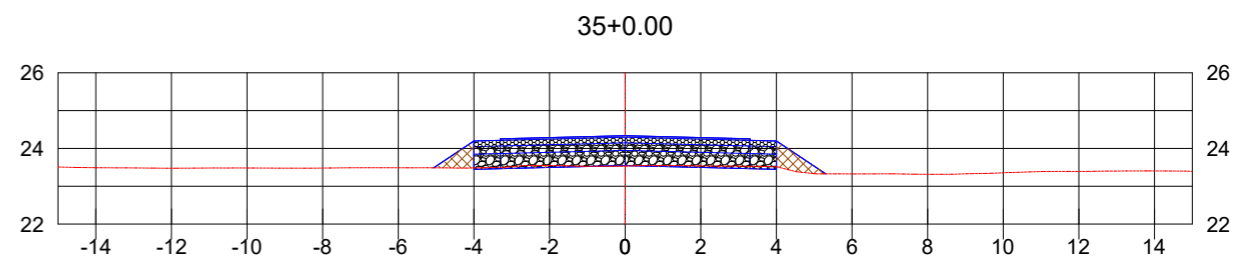
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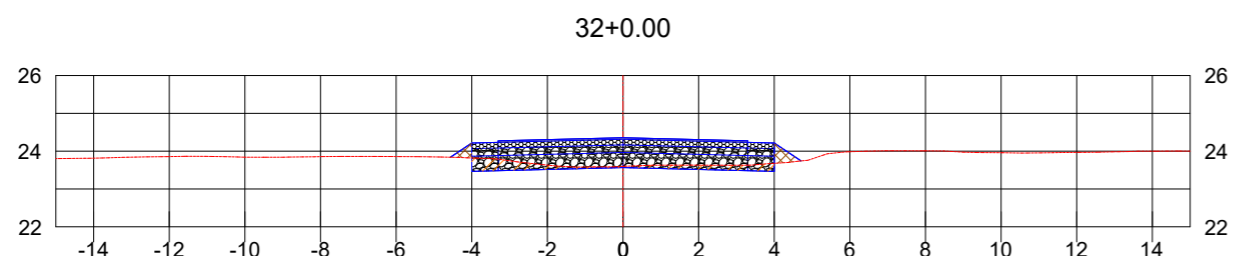
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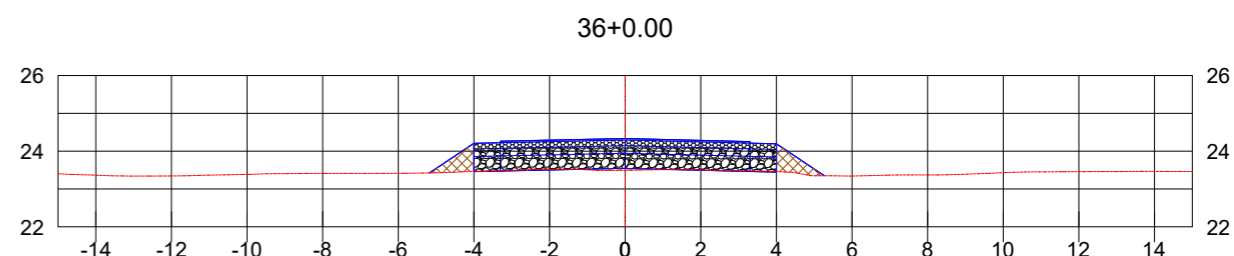
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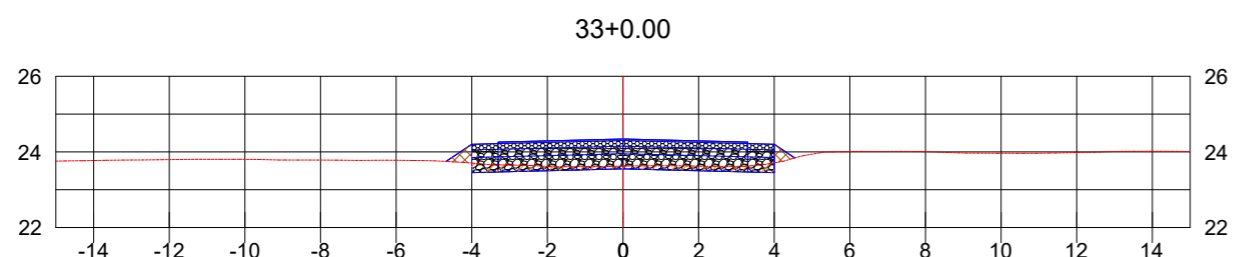
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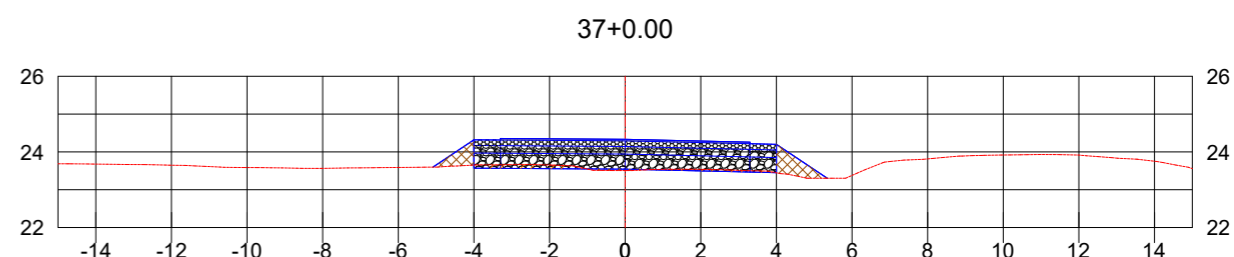
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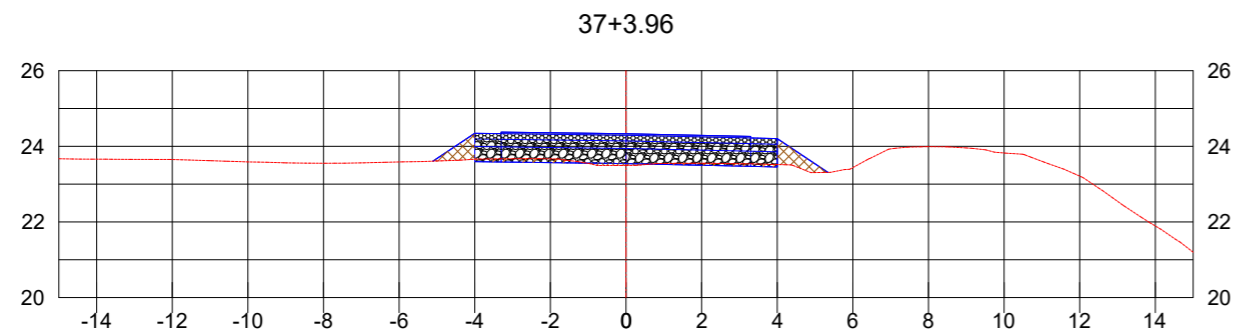
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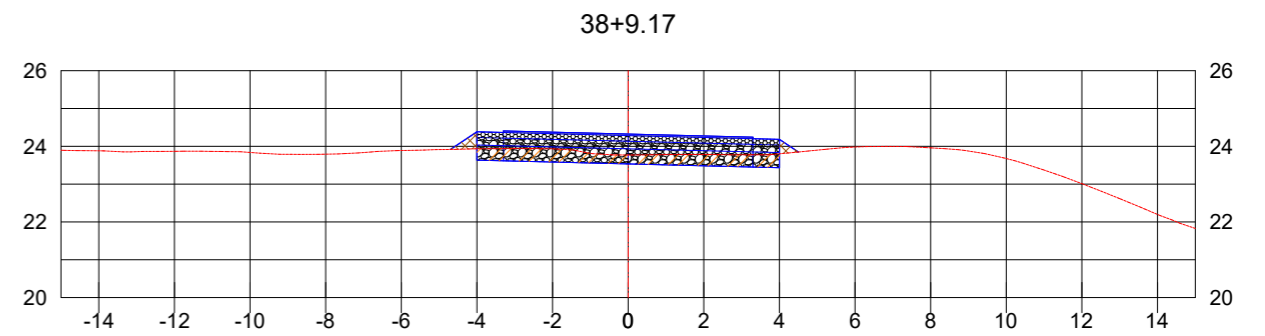
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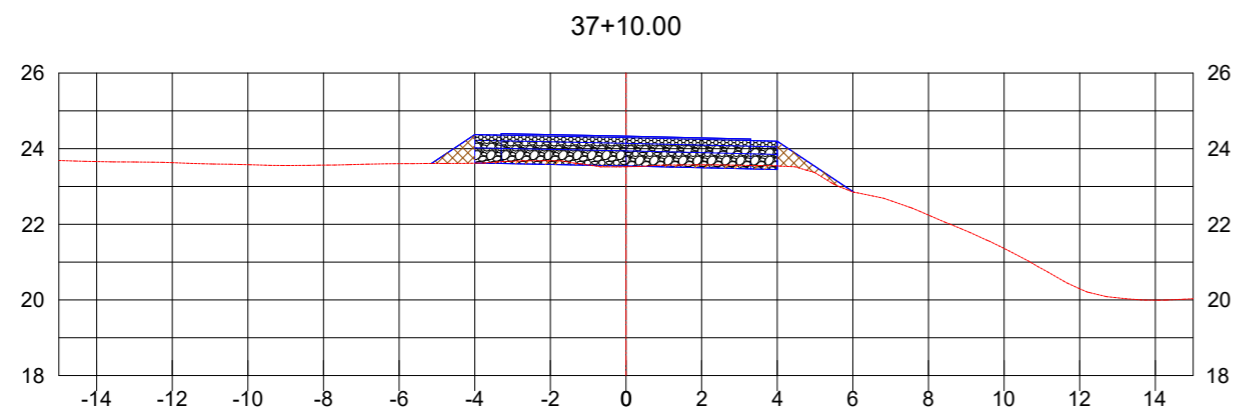
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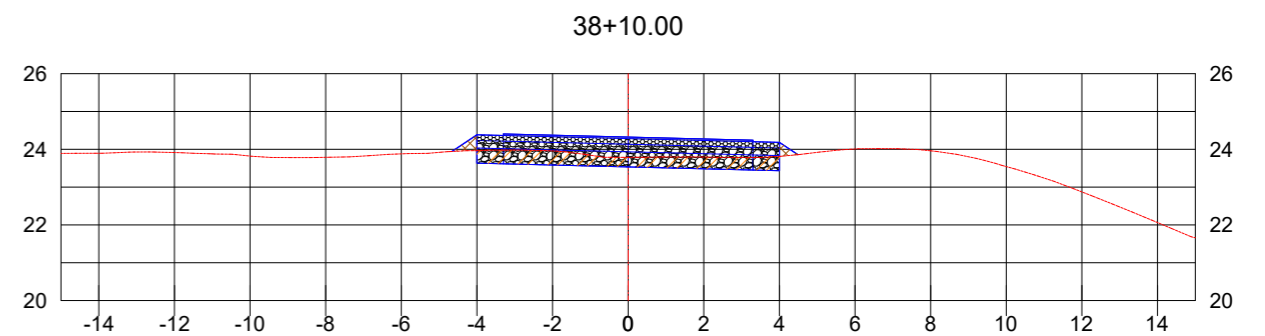
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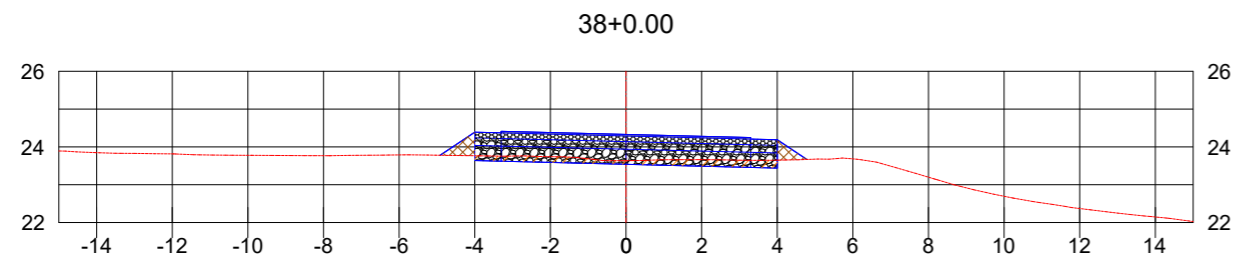
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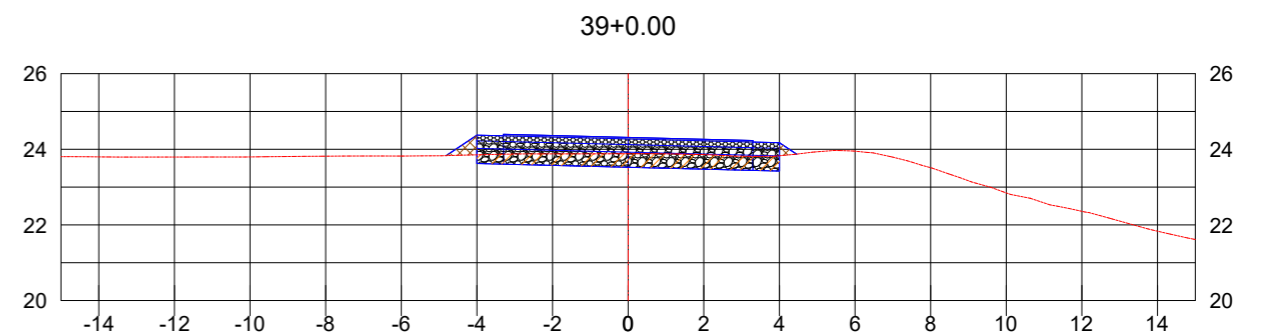
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CT: 23.79
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CT: 23.64
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CT: 23.88
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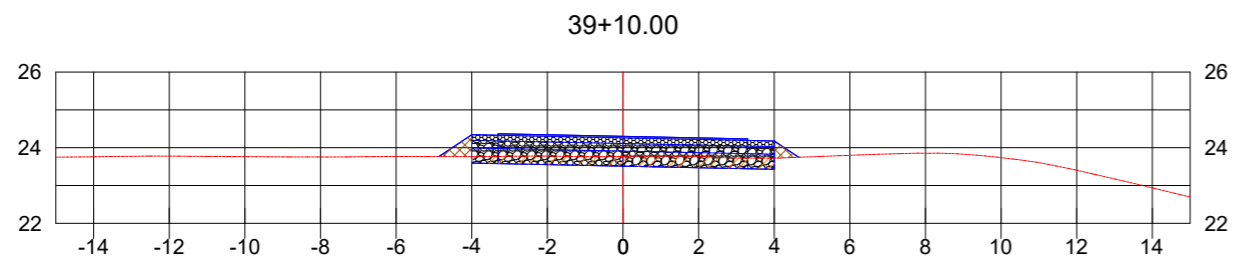
Autor do projeto:
BRUNO FRIGO PASINI
 ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
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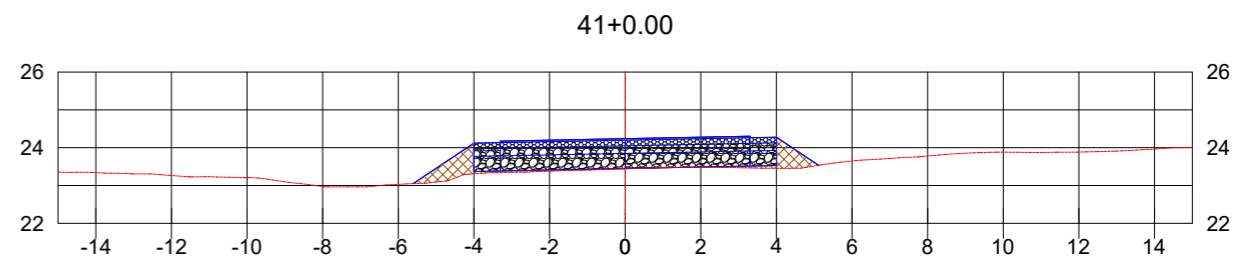
Obra
R.M. MERCEDES MINATTO SCARDUELLI

Conteúdo
SEÇÕES DE TERRAPLENAGEM

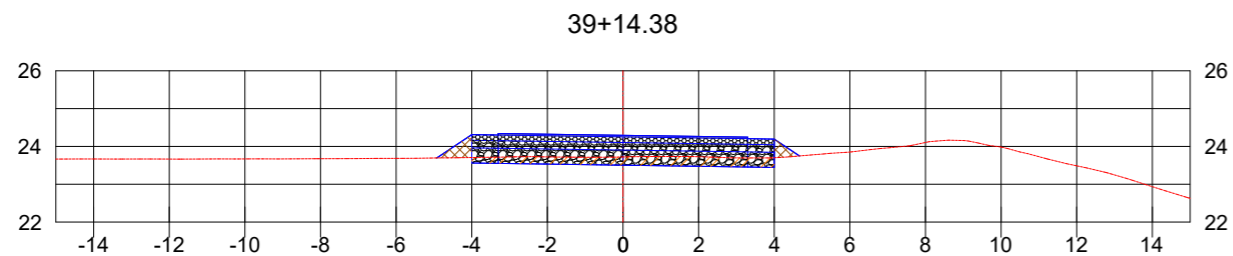
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 R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC



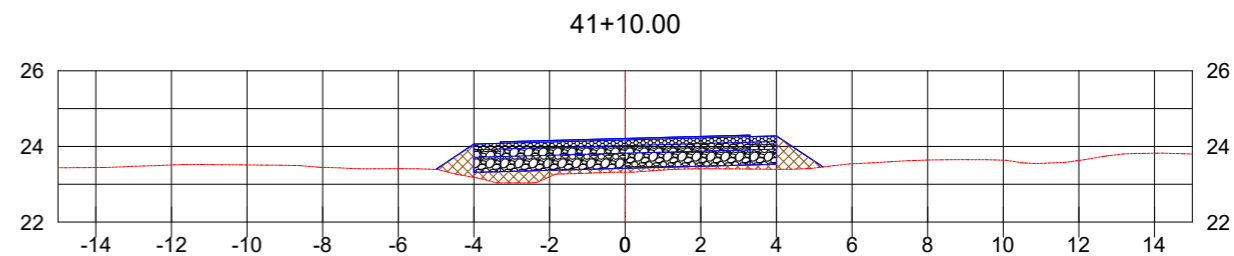
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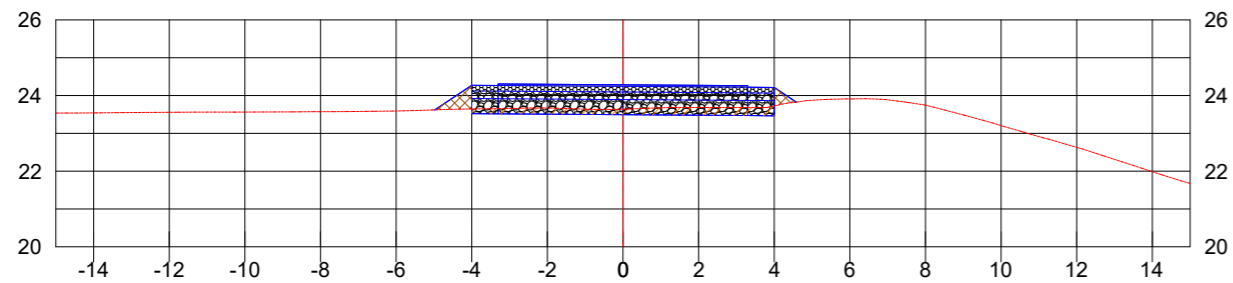
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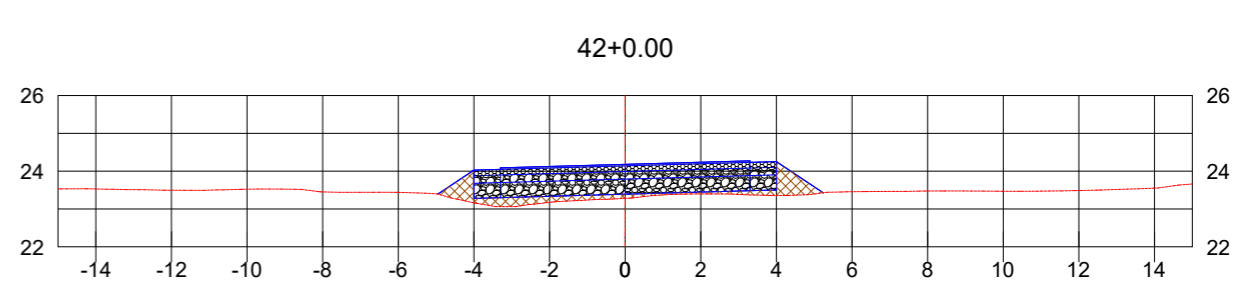
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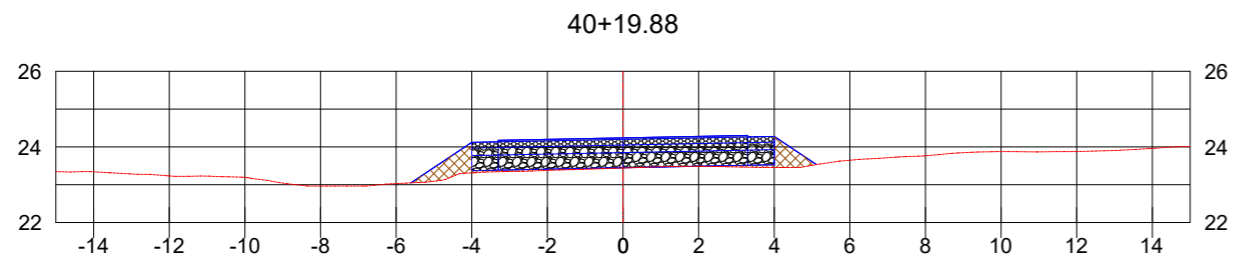
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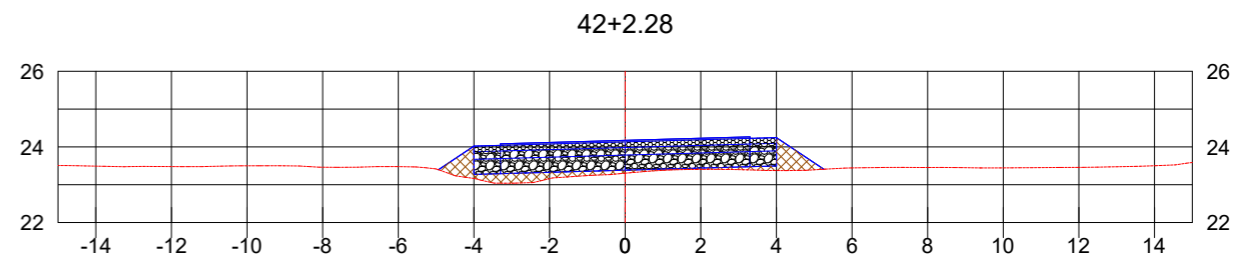
CT: 23.64
 CPP: 24.28
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CT: 23.28
 CPP: 24.18
 CPT: 23.39



CT: 23.44
 CPP: 24.24
 CPT: 23.45



CT: 23.30
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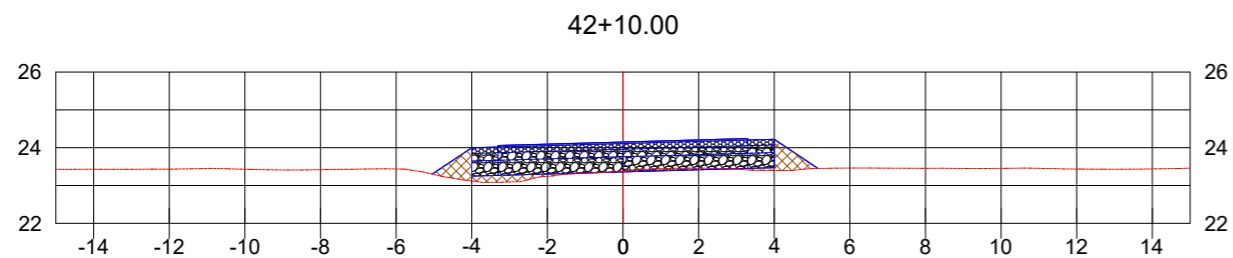
Autor do projeto:
BRUNO FRIGO PASINI
 ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
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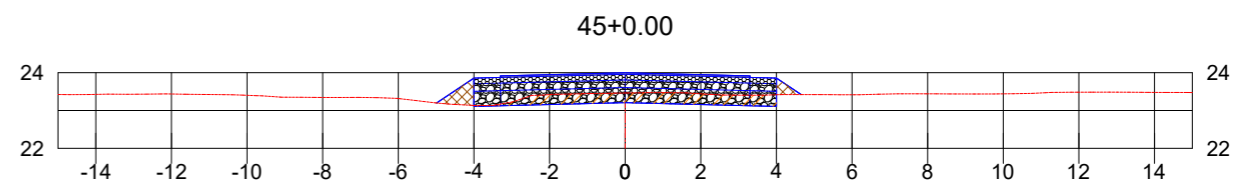
Obra
R.M. MERCEDES MINATTO SCARDUELLI

Conteúdo
SEÇÕES DE TERRAPLENAGEM

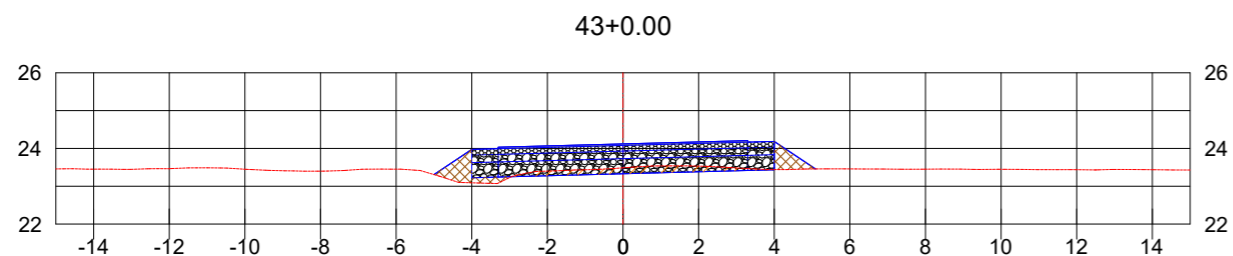
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 R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC



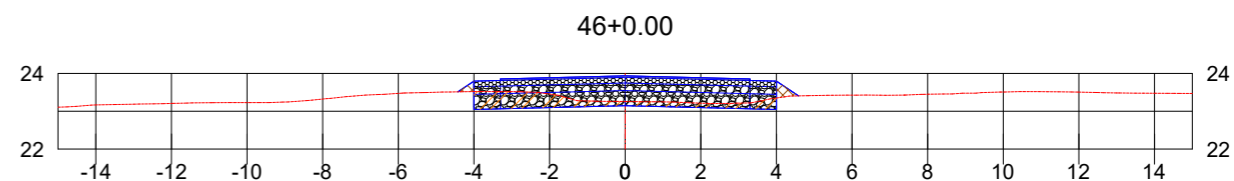
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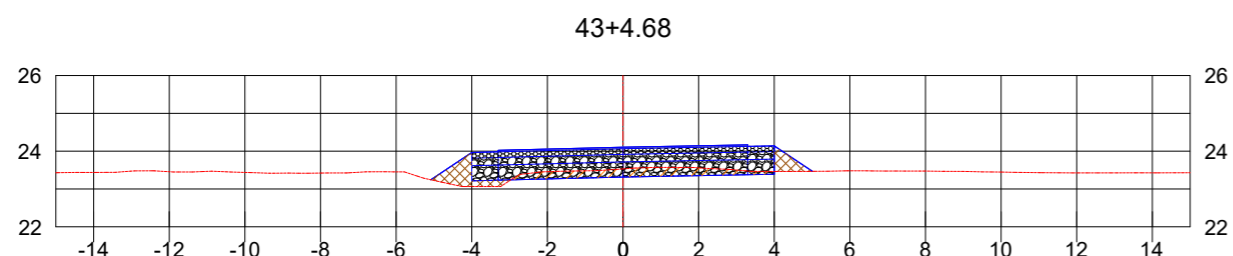
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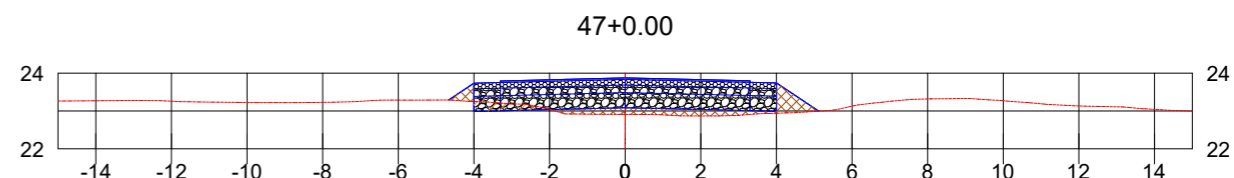
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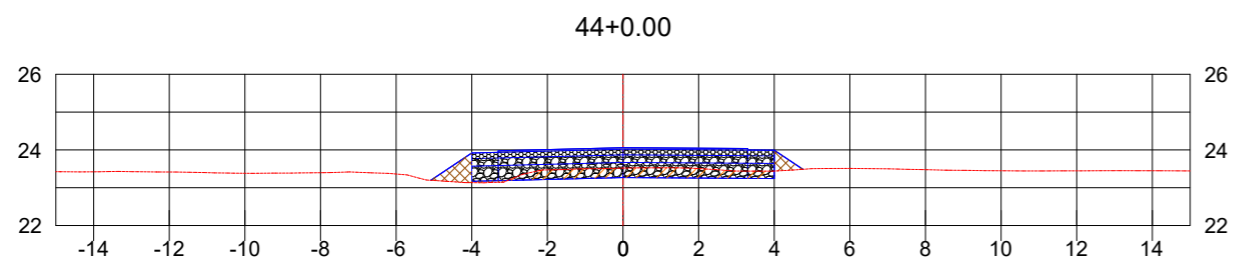
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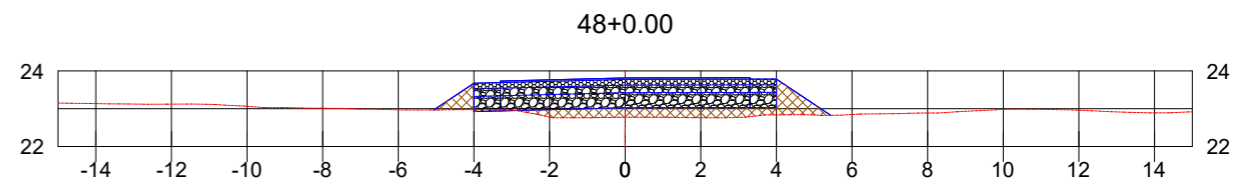
CT: 23.53
 CPP: 24.11
 CPT: 23.32



CT: 22.91
 CPP: 23.88
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CT: 23.52
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CT: 22.77
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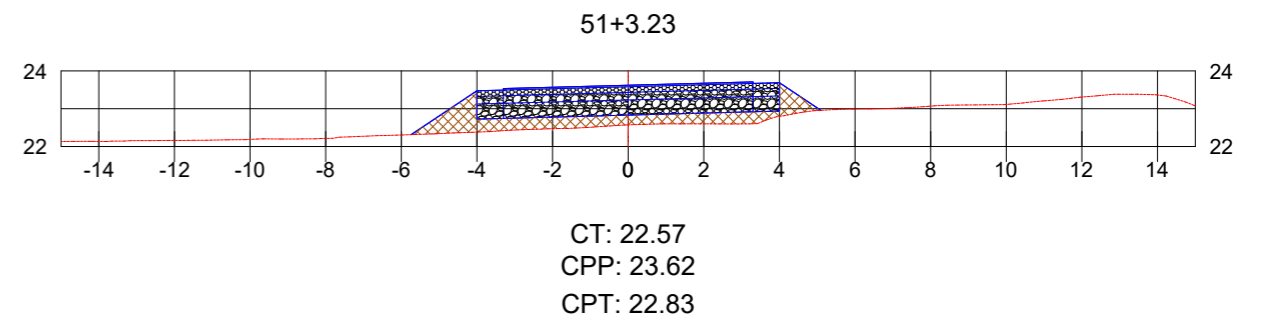
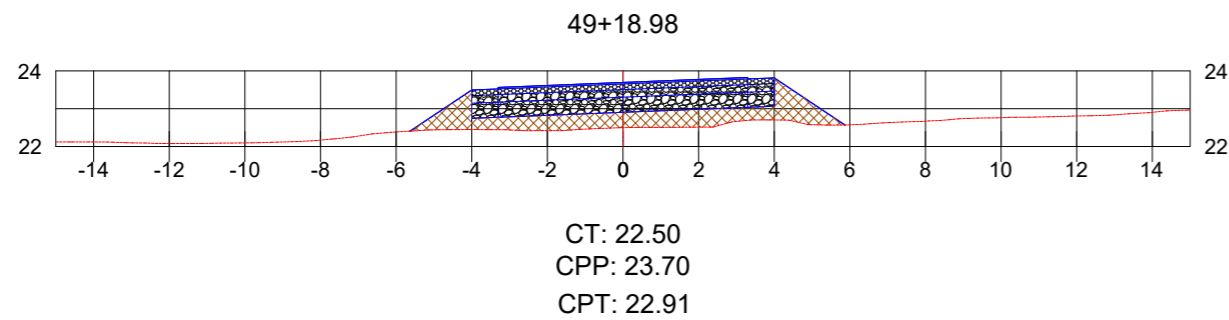
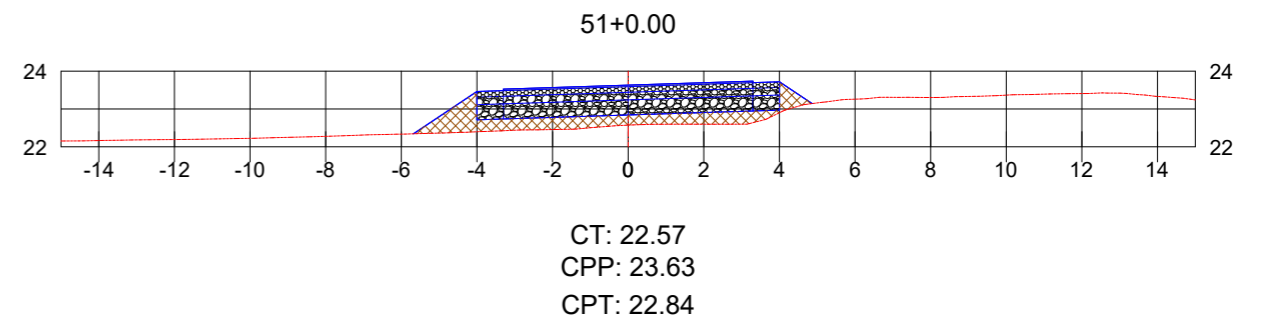
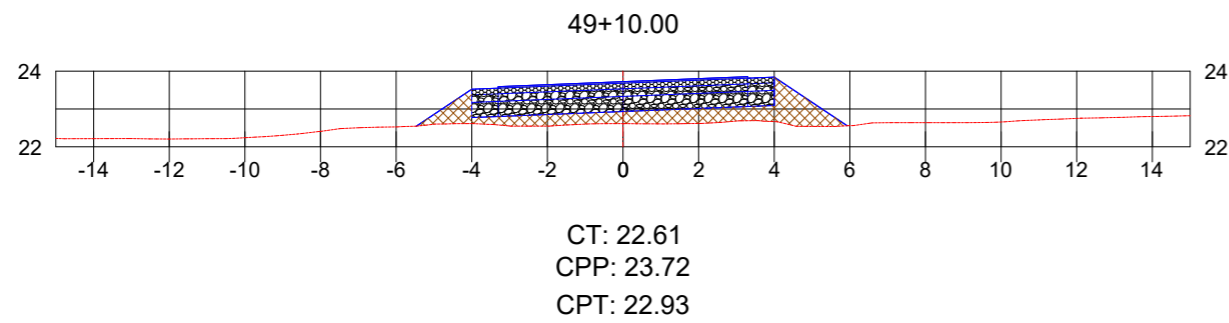
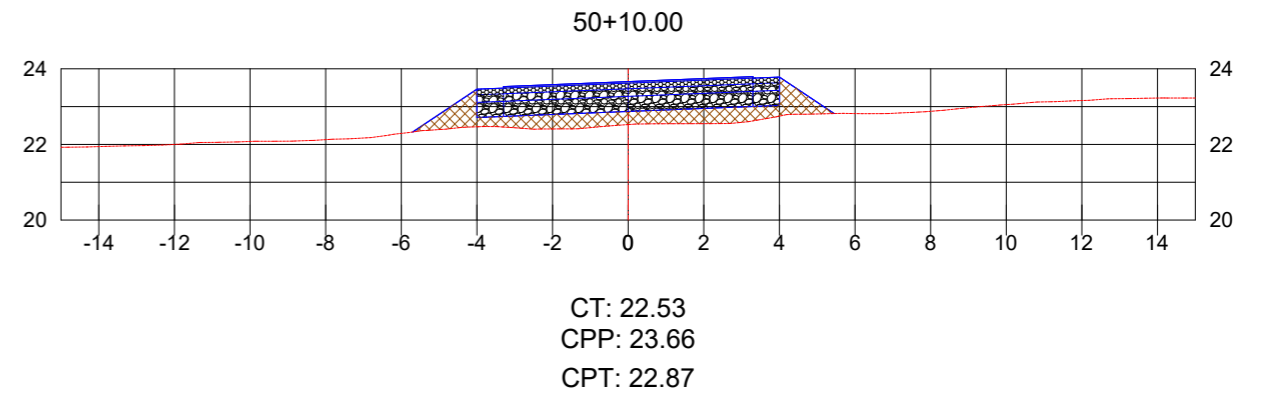
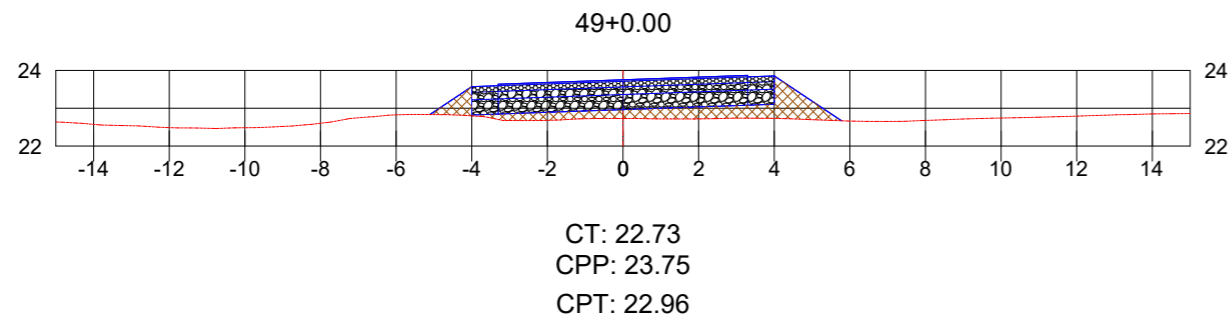
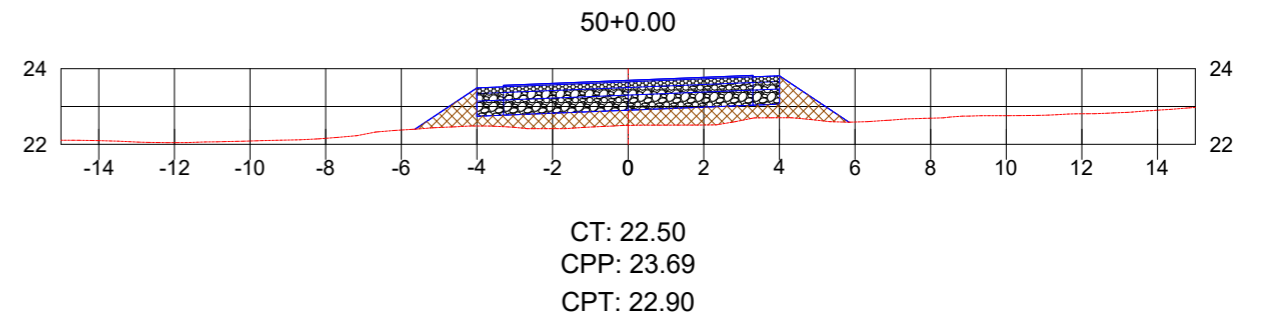
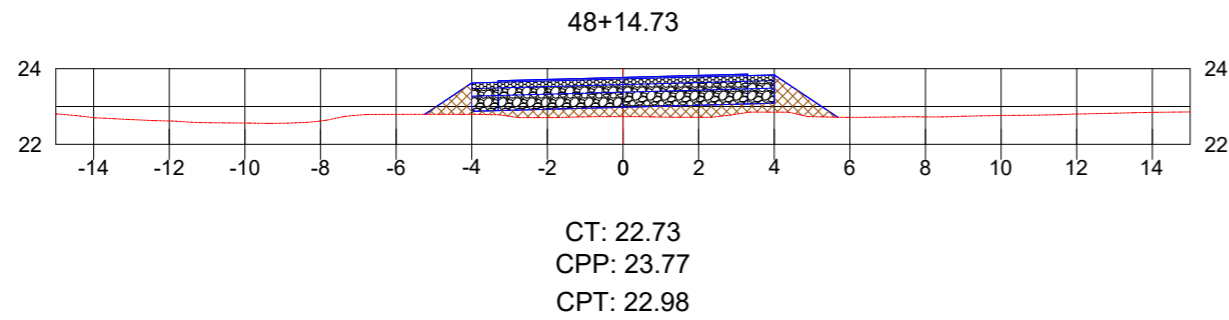
Autor do projeto:
BRUNO FRIGO PASINI
 ENGENHEIRO CIVIL - CREA/SC 137.007-9

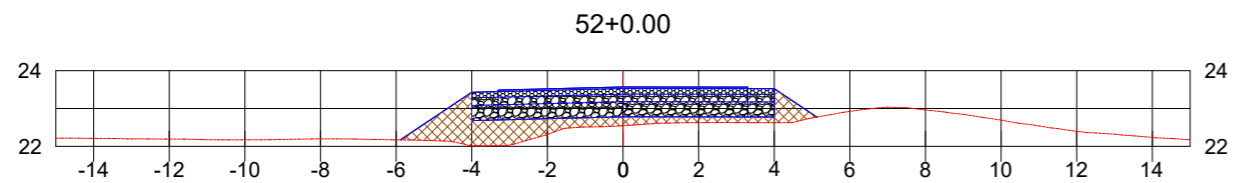
Prancha:
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Obra
R.M. MERCEDES MINATTO SCARDUELLI

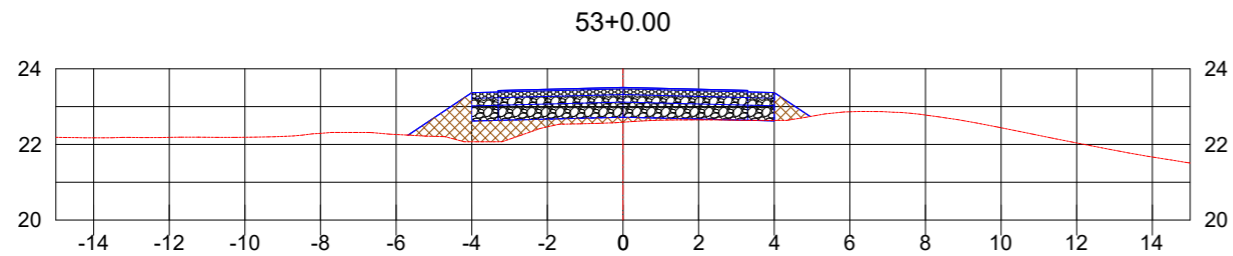
Conteúdo
SEÇÕES DE TERRAPLENAGEM

Local
 R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC

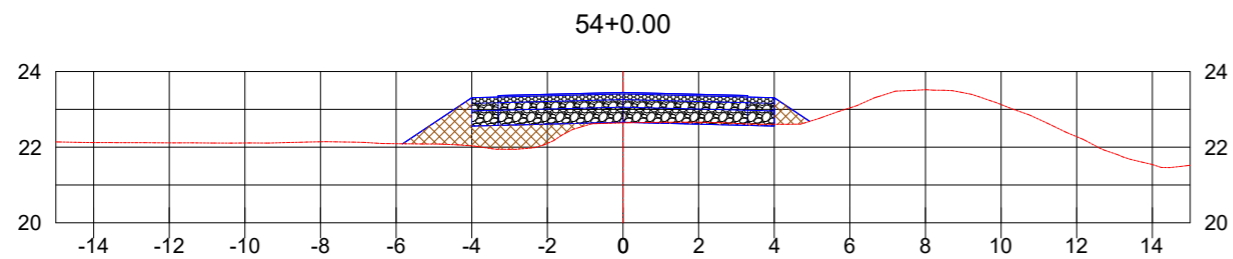




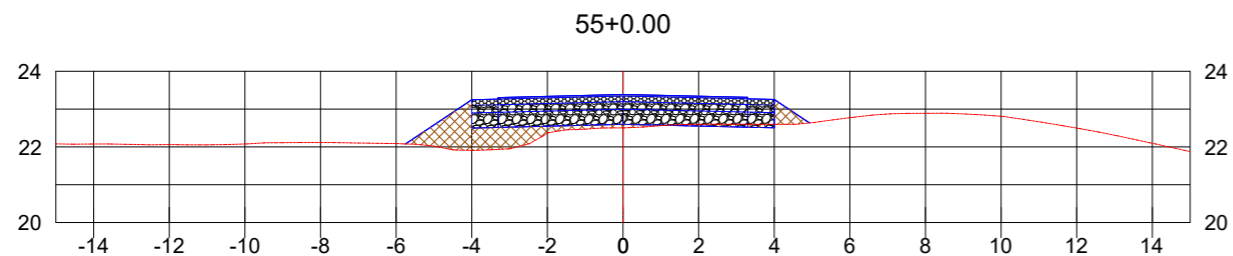
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 CPT: 22.78



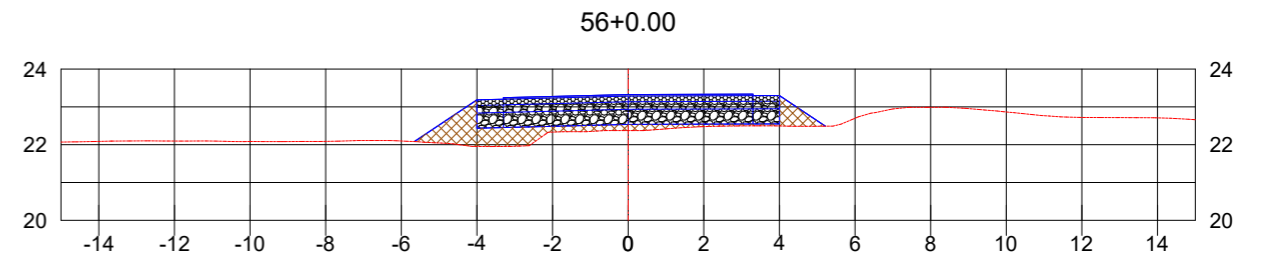
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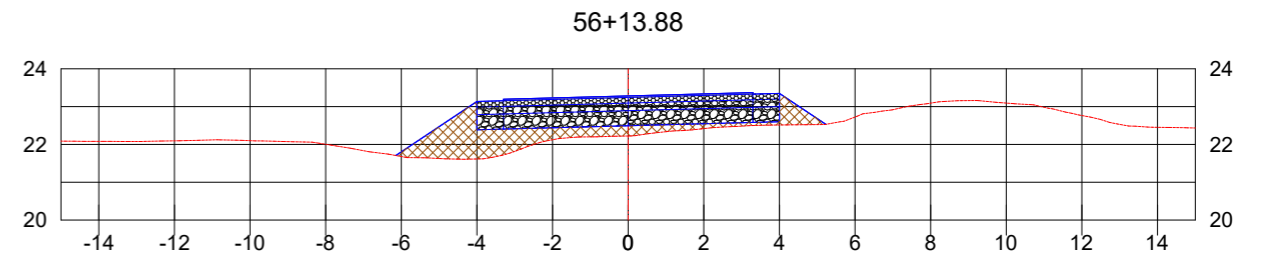
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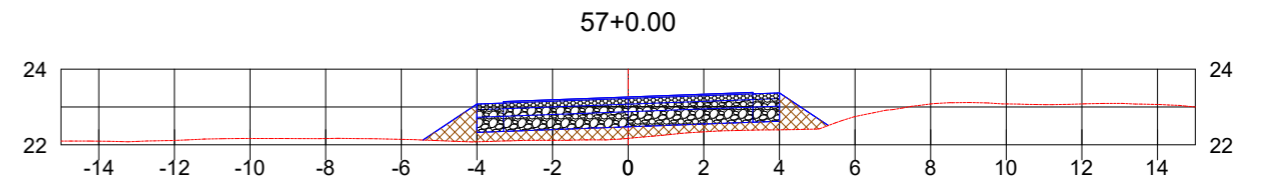
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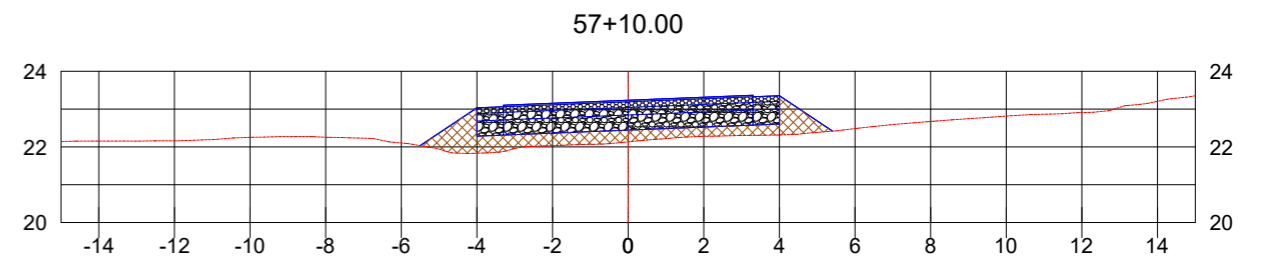
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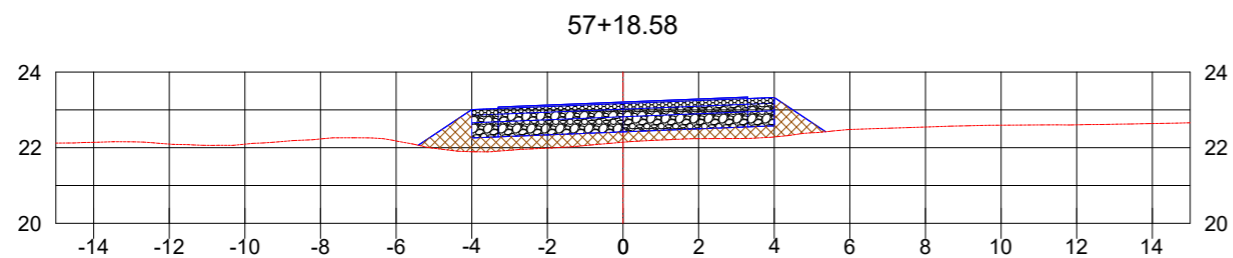
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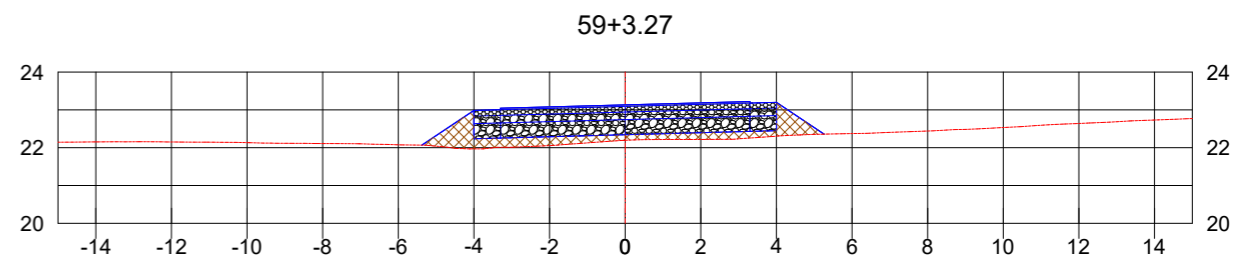
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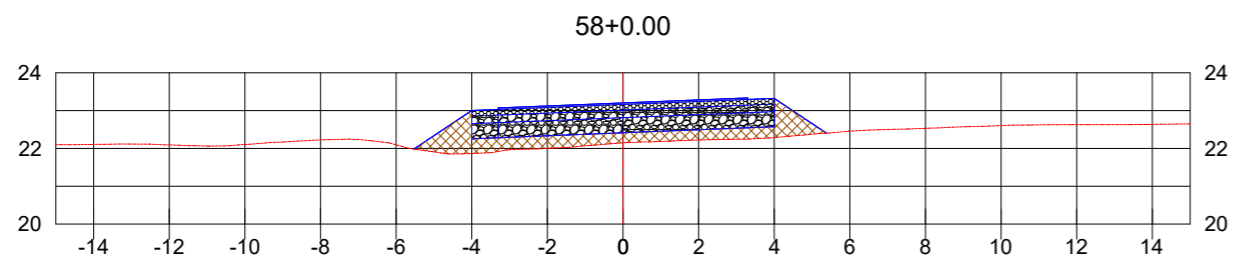
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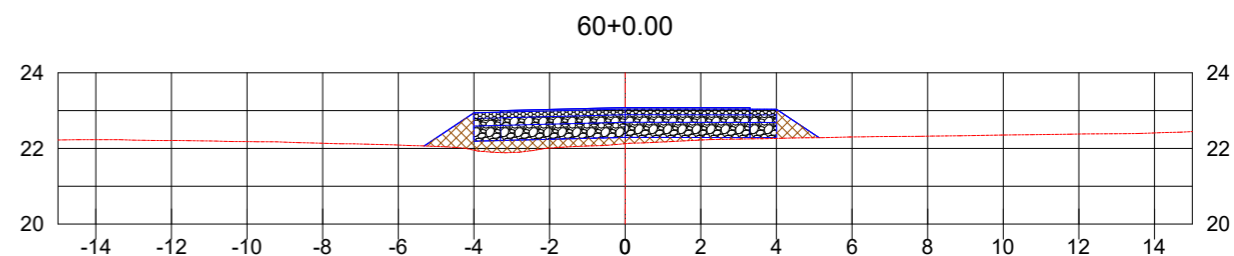
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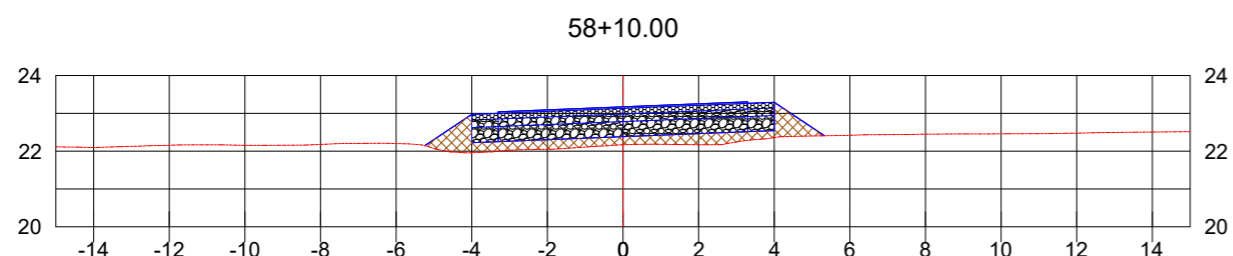
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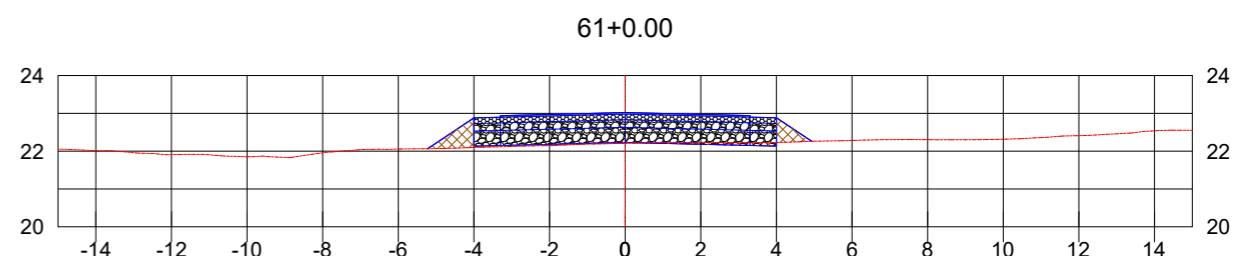
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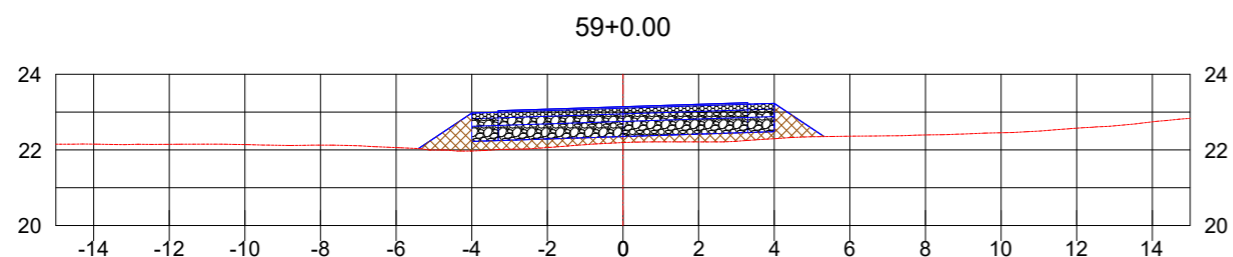
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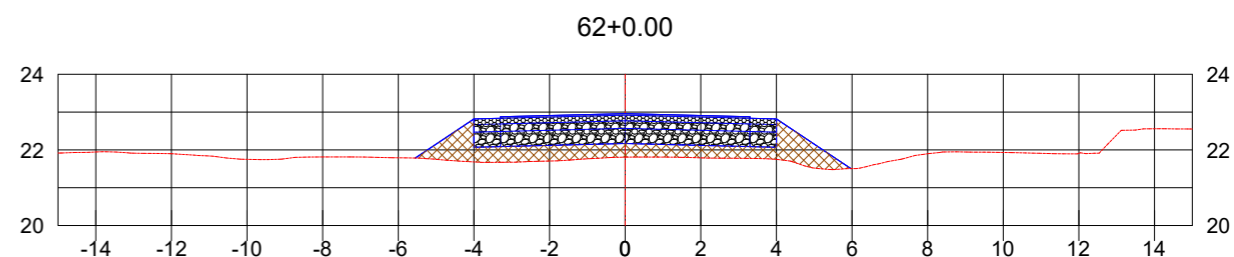
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 CPT: 22.38



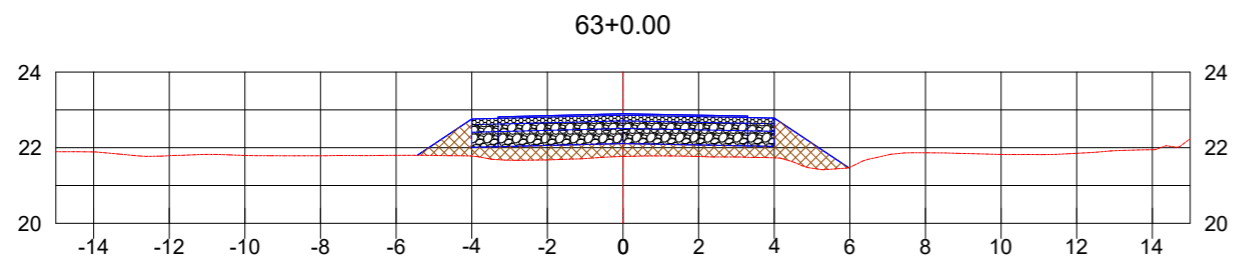
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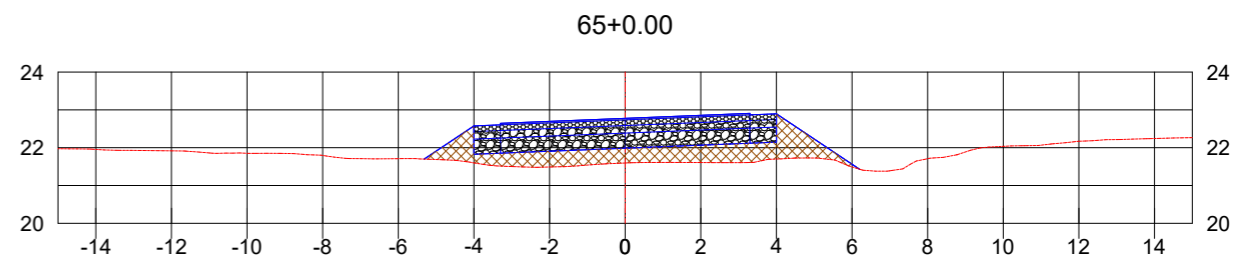
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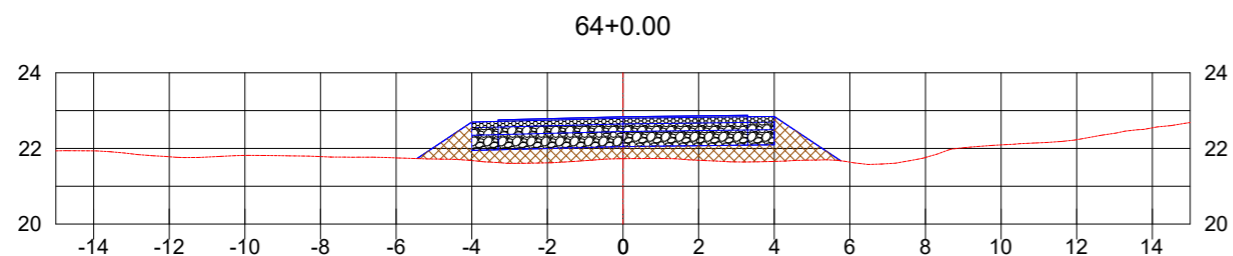
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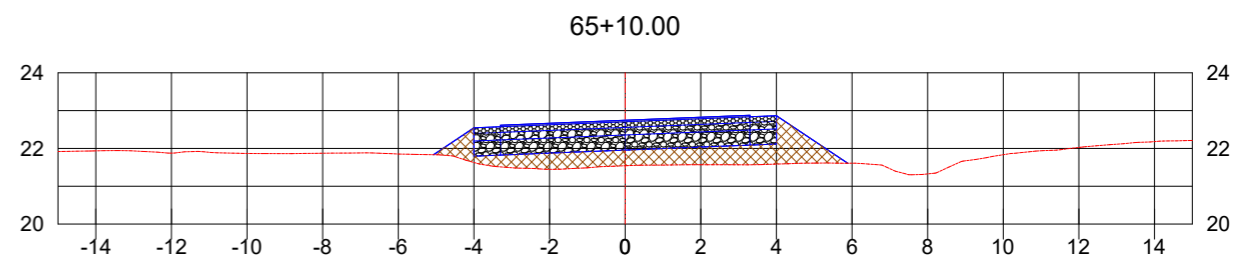
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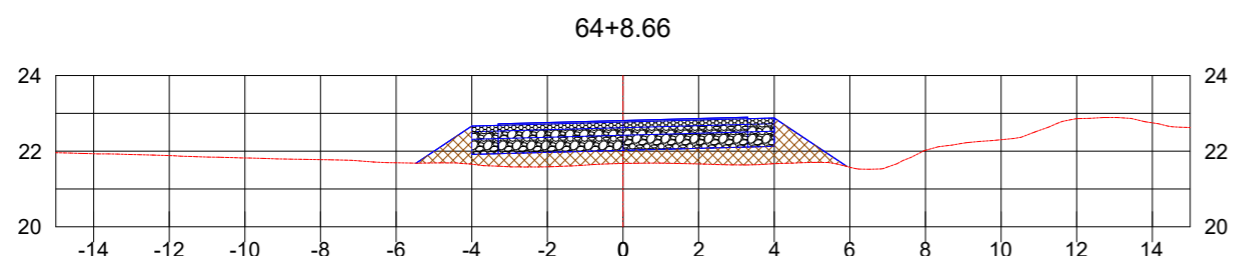
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 CPT: 21.99



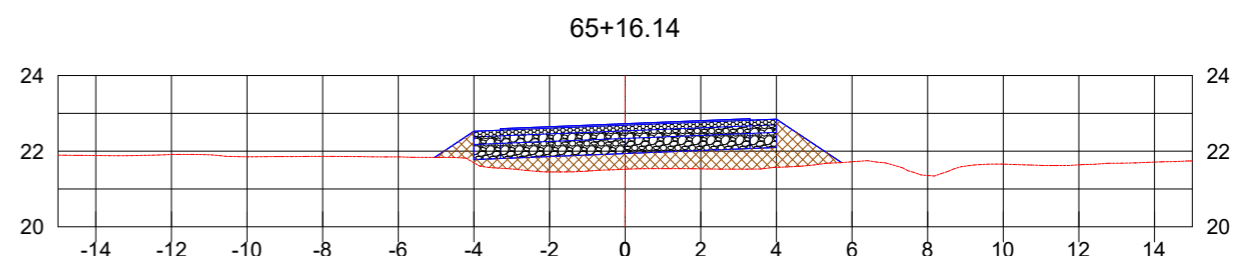
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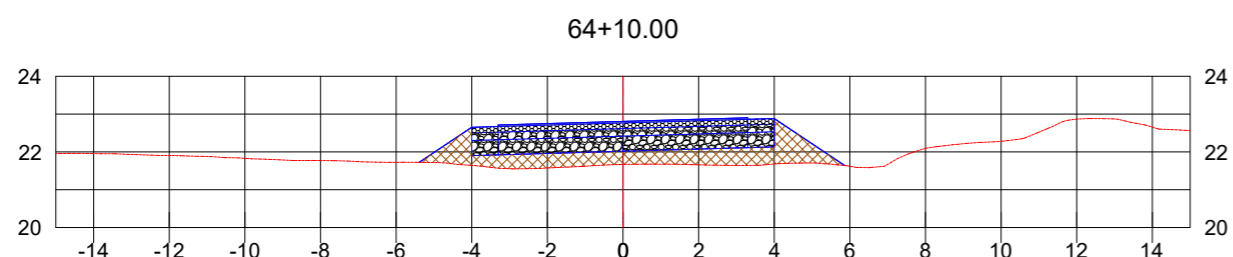
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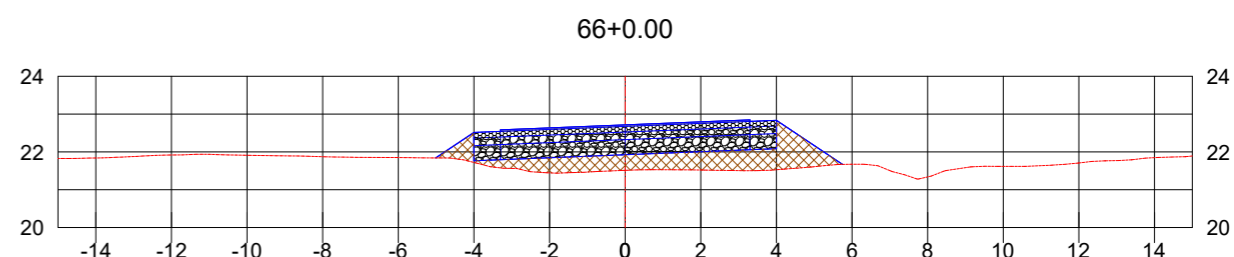
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 CPP: 22.81
 CPT: 22.02



CT: 21.52
 CPP: 22.73
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CT: 21.67
 CPP: 22.81
 CPT: 22.02



CT: 21.51
 CPP: 22.71
 CPT: 21.92



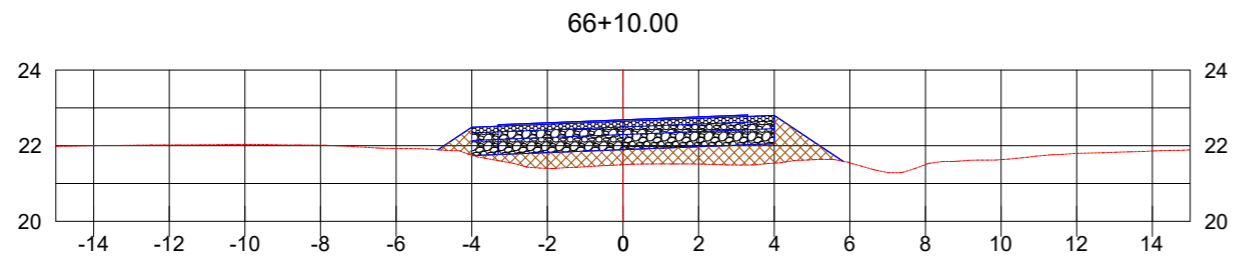
Autor do projeto:
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 ENGENHEIRO CIVIL - CREA/SC 137.007-9

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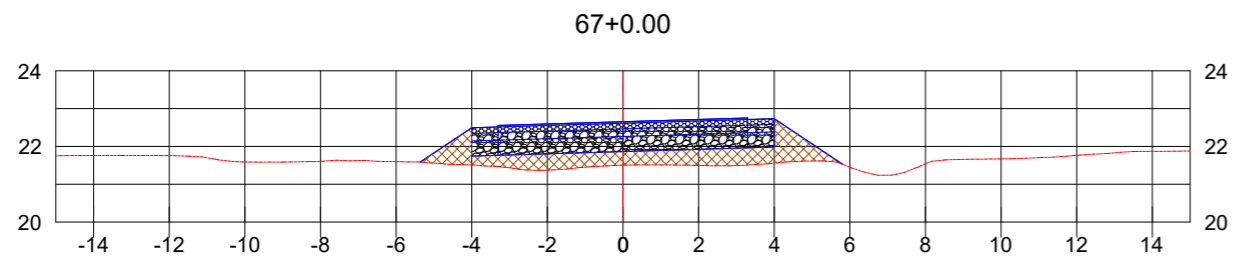
Obra
R.M. MERCEDES MINATTO SCARDUELLI

Conteúdo
SEÇÕES DE TERRAPLENAGEM

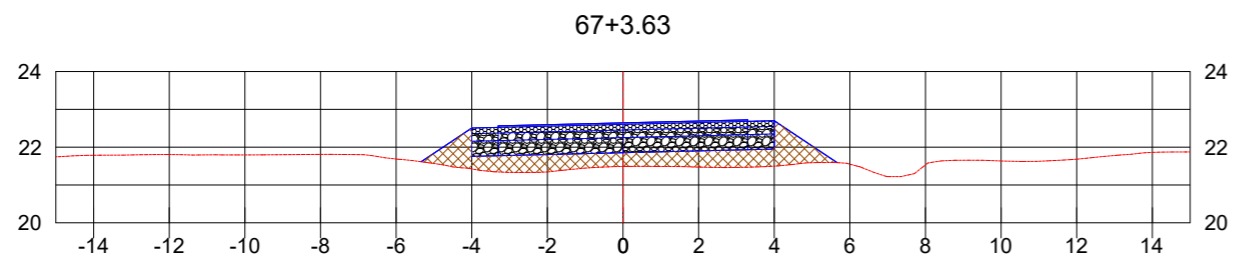
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 R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC



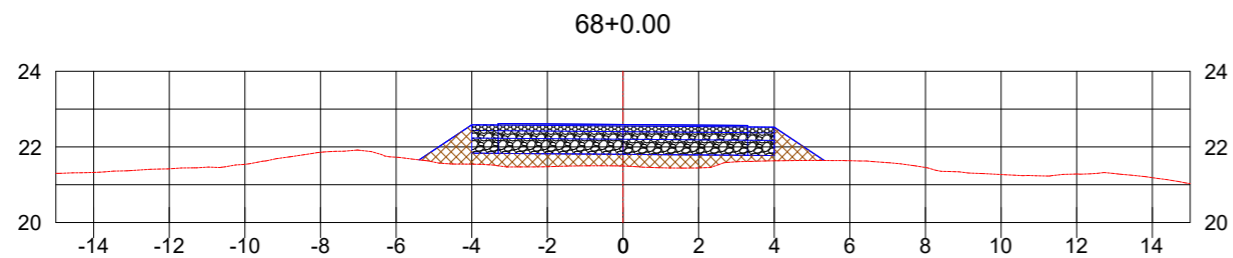
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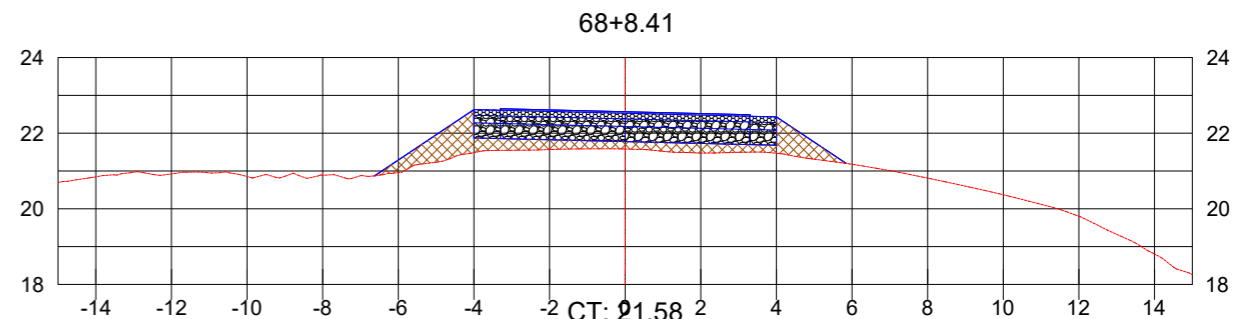
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 CPT: 21.86



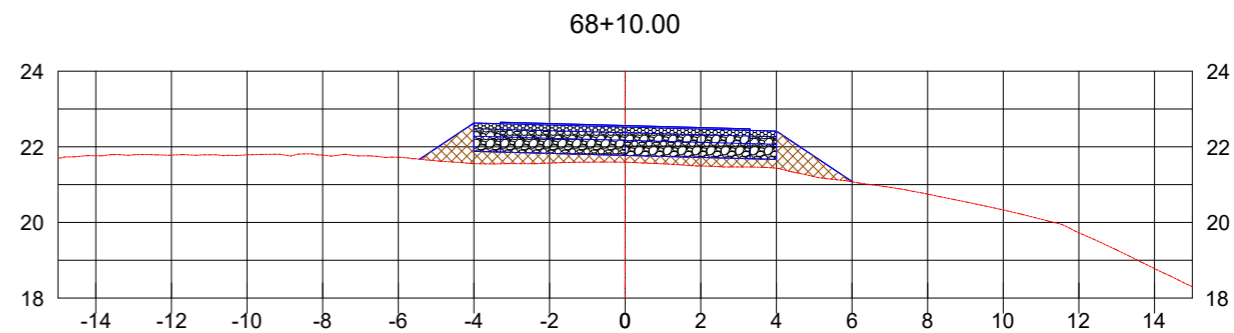
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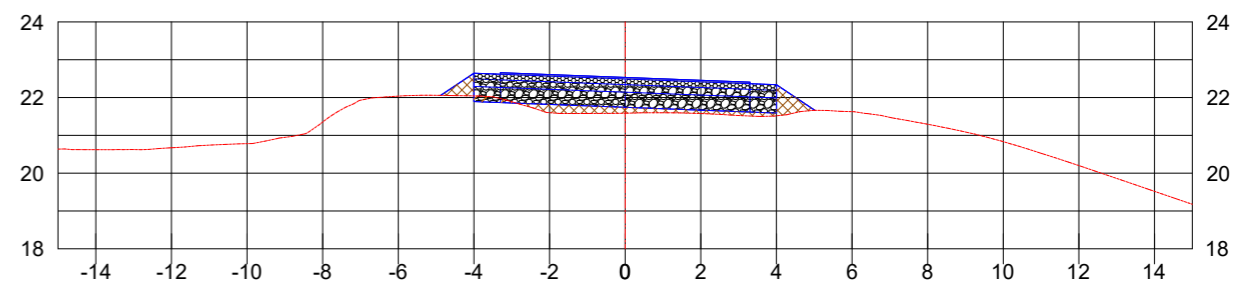
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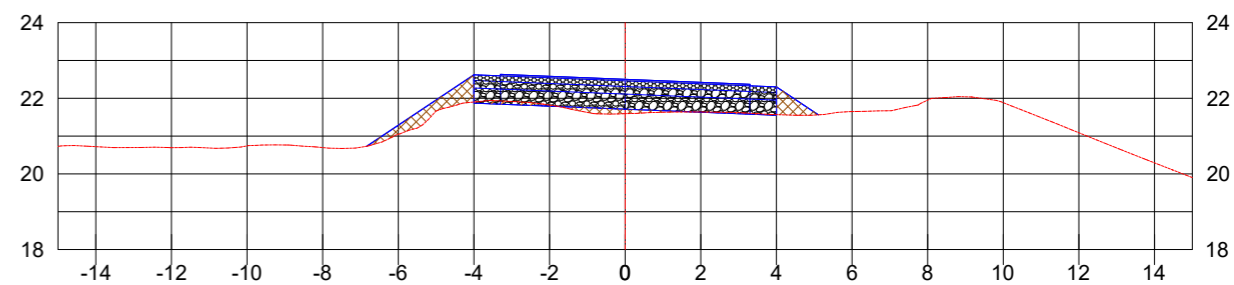
CT: 21.58
 CPP: 22.57
 CPT: 21.78



CT: 21.59
 CPP: 22.56
 CPT: 21.77



CT: 21.59
 CPP: 22.53
 CPT: 21.74



CT: 21.59
 CPP: 22.50
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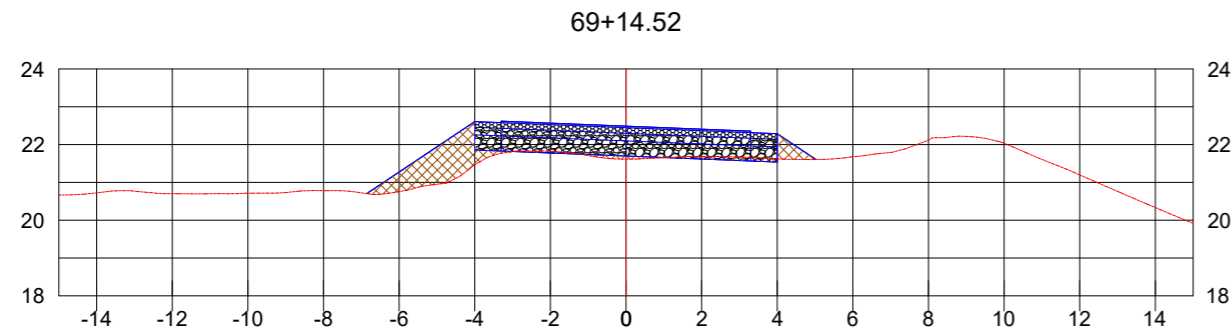
Autor do projeto:
BRUNO FRIGO PASINI
 ENGENHEIRO CIVIL - CREA/SC 137.007-9

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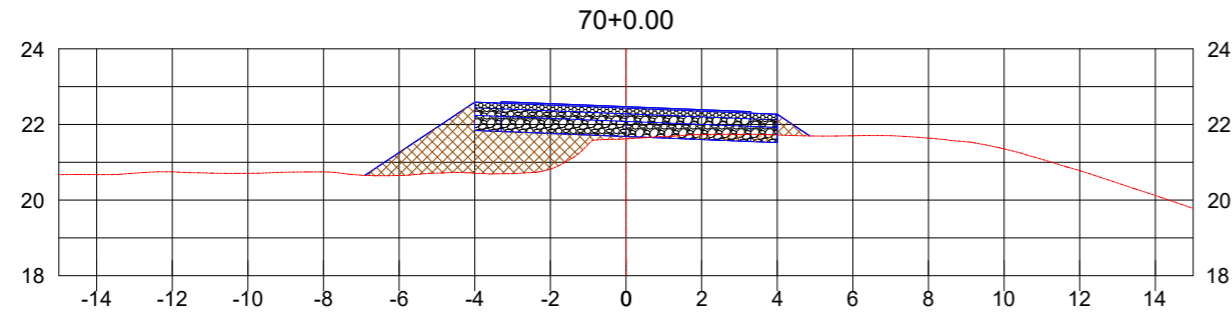
Obra
R.M. MERCEDES MINATTO SCARDUELLI

Conteúdo
SEÇÕES DE TERRAPLENAGEM

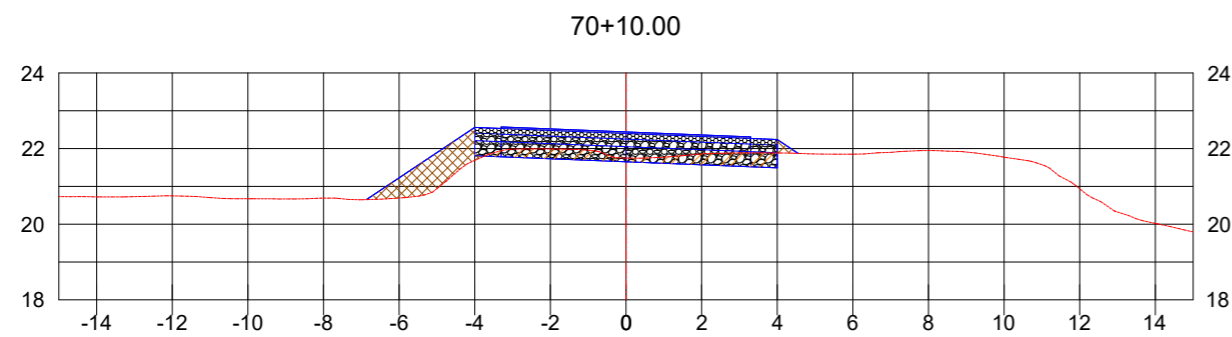
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 R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC



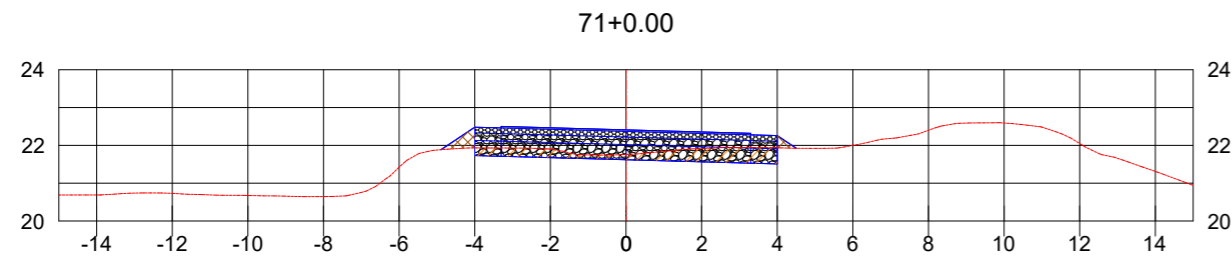
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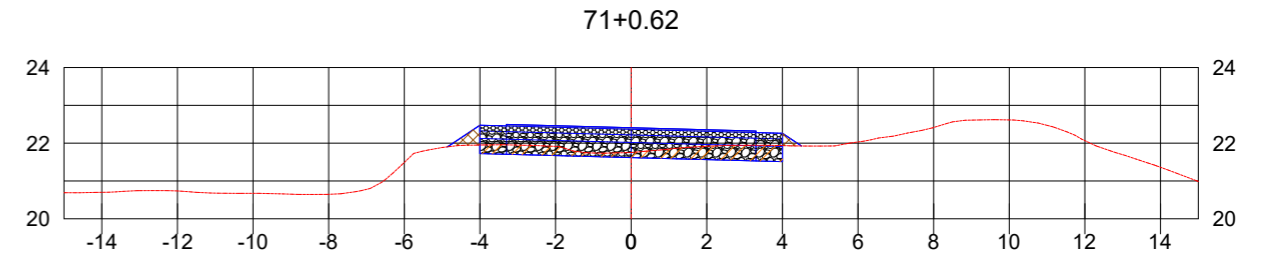
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 CPP: 22.47
 CPT: 21.68



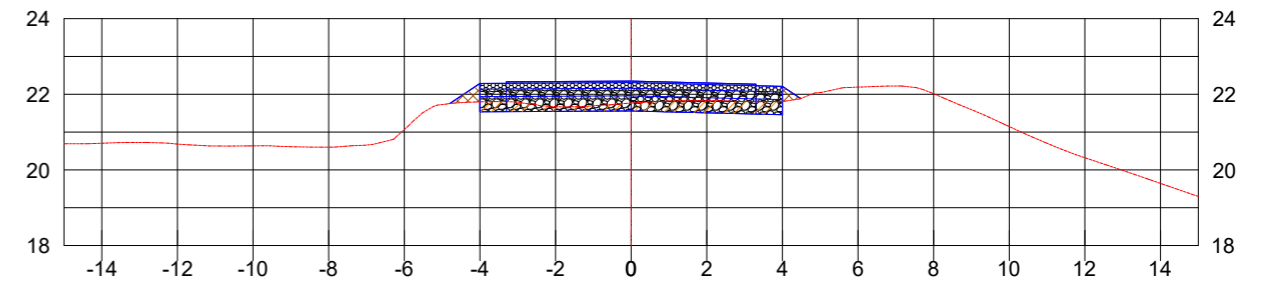
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 CPP: 22.44
 CPT: 21.65



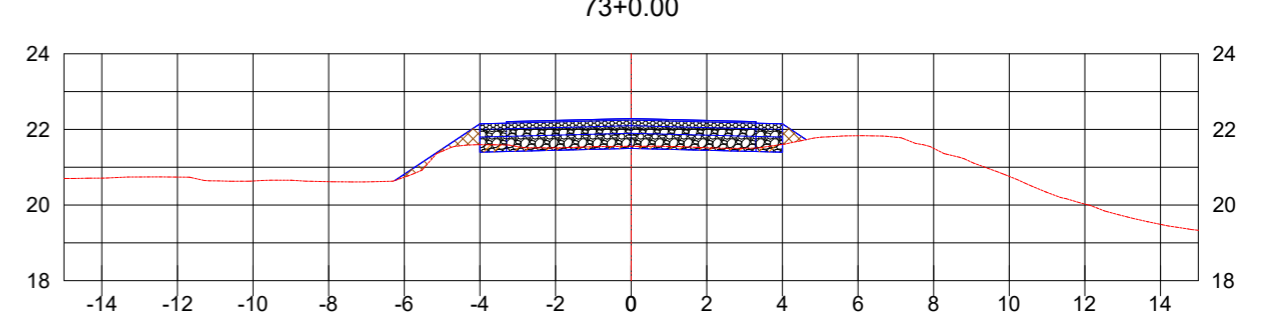
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 CPP: 22.41
 CPT: 21.62



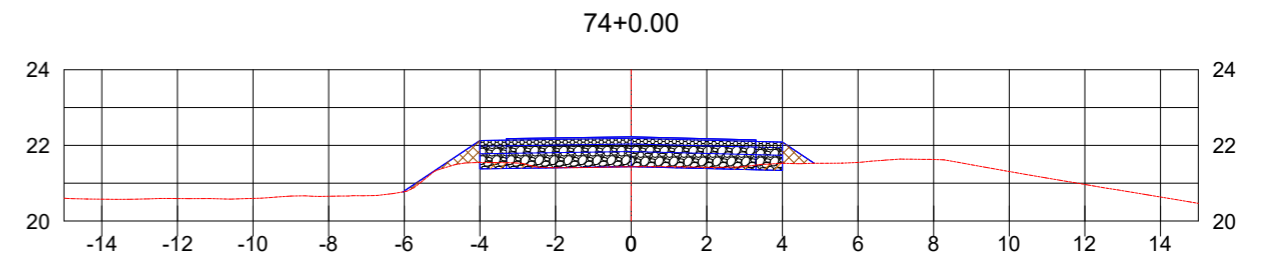
CT: 21.75
 CPP: 22.41
 CPT: 21.62
 72+0.00



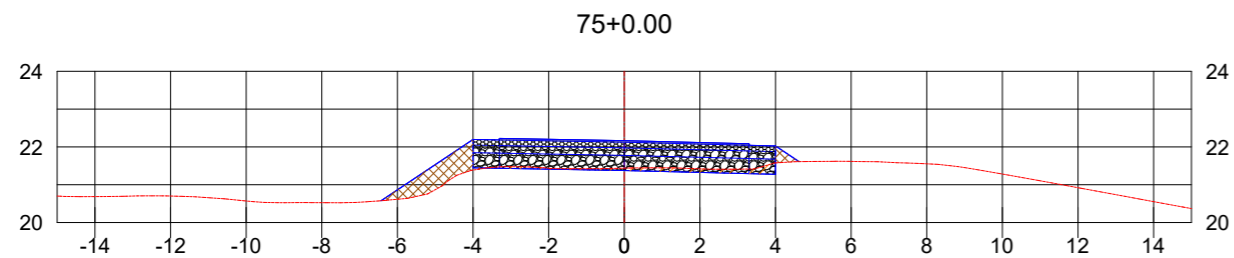
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 CPP: 22.35
 CPT: 21.56



CT: 21.55
 CPP: 22.29
 CPT: 21.50

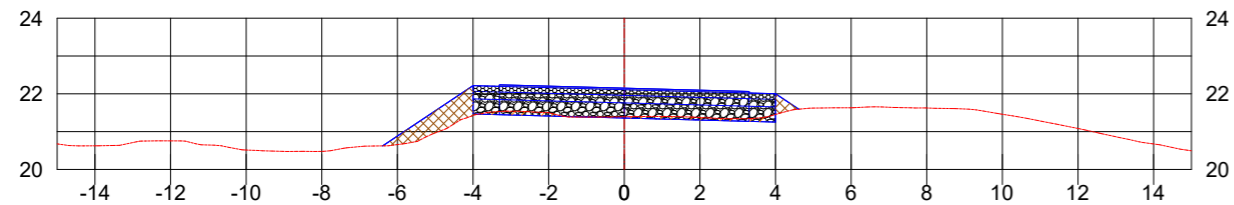


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 CPP: 22.23
 CPT: 21.44



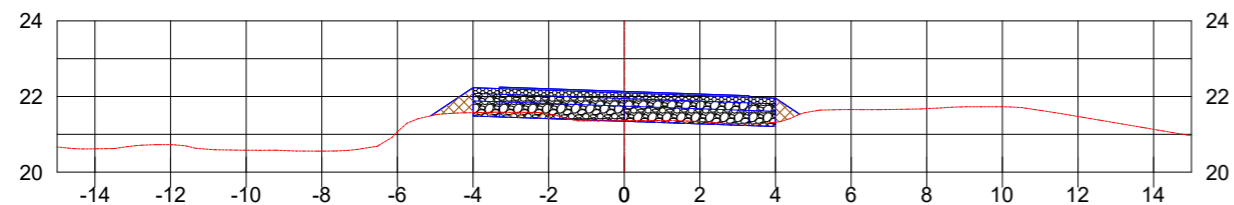
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 CPP: 22.17
 CPT: 21.38

75+5.19



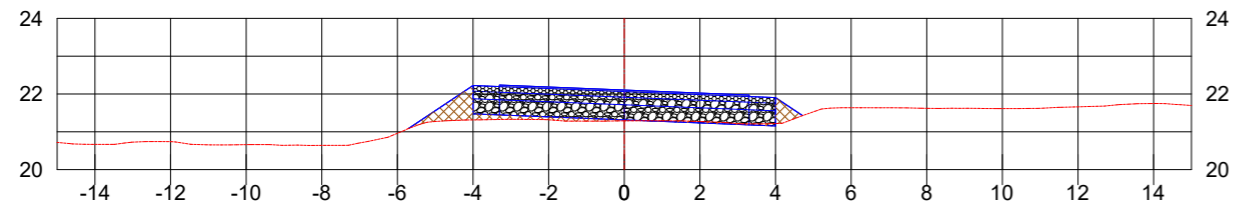
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 CPT: 21.36

75+10.00

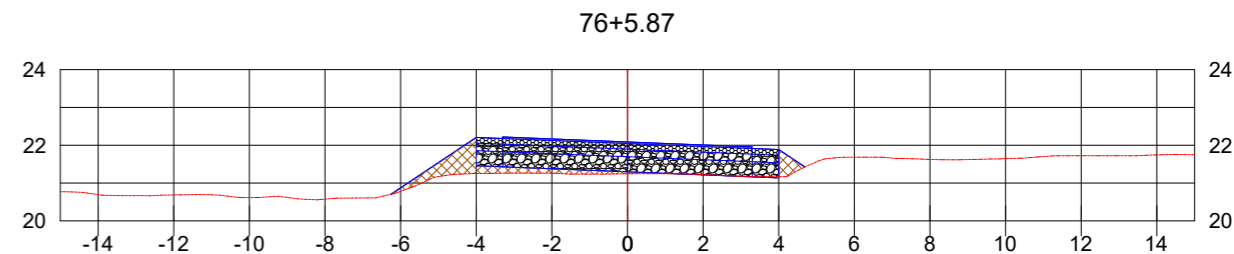


CT: 21.36
 CPP: 22.13
 CPT: 21.34

76+0.00

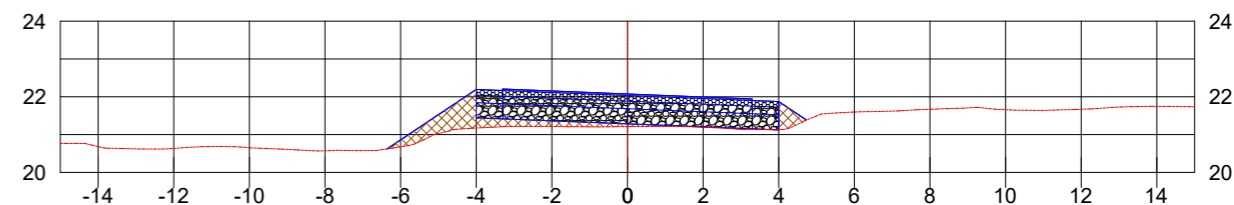


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 CPP: 22.10
 CPT: 21.31



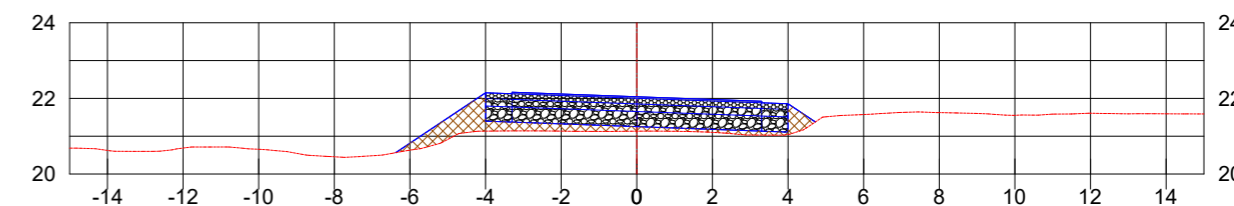
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 CPP: 22.09
 CPT: 21.30

76+10.00



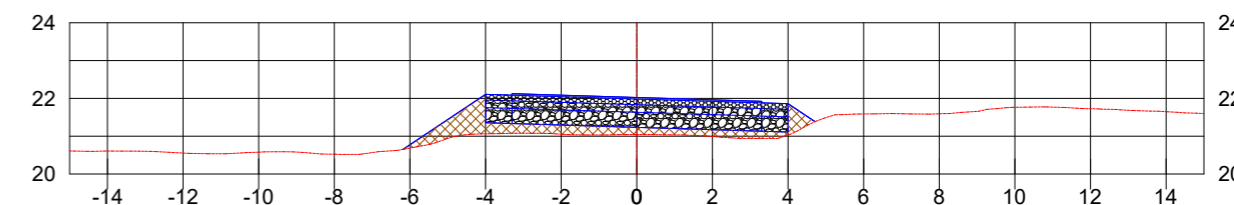
CT: 21.21
 CPP: 22.07
 CPT: 21.28

77+0.00



CT: 21.13
 CPP: 22.04
 CPT: 21.25

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CT: 21.04
 CPP: 22.02
 CPT: 21.23



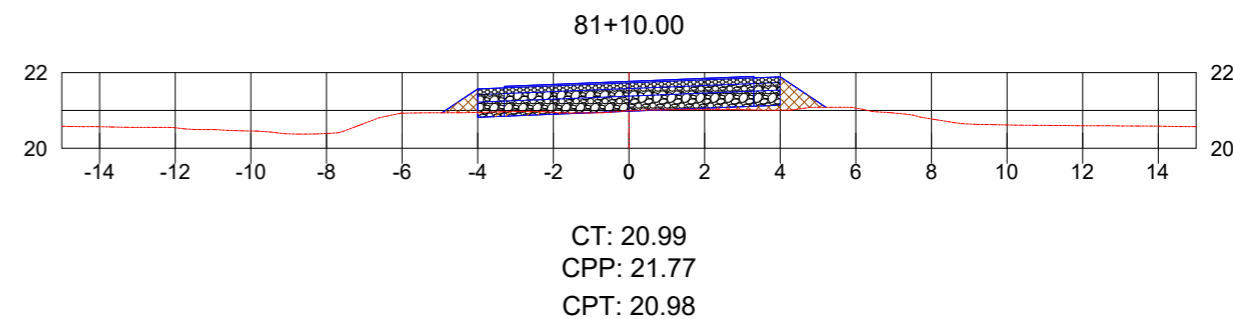
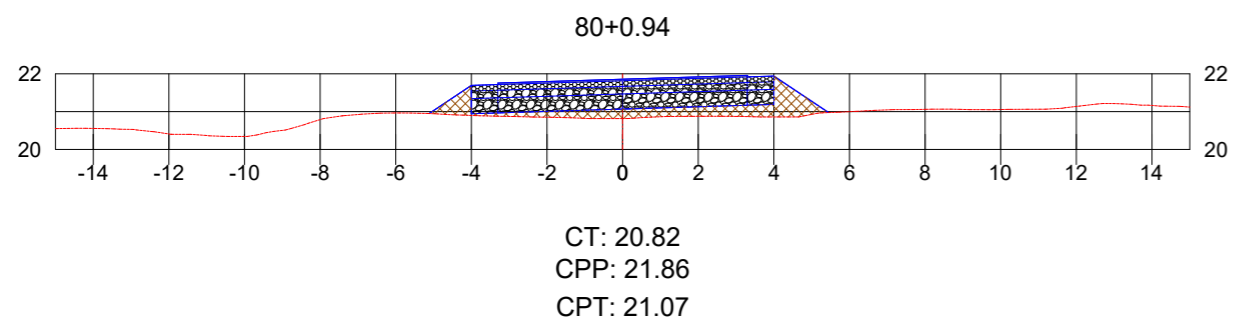
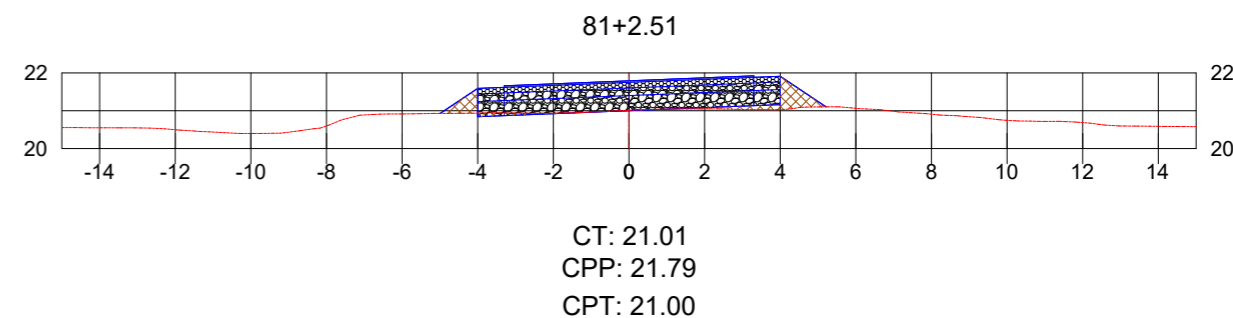
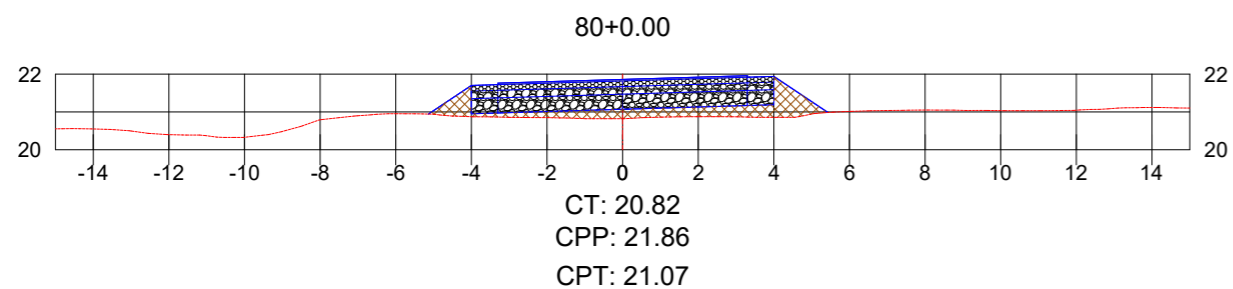
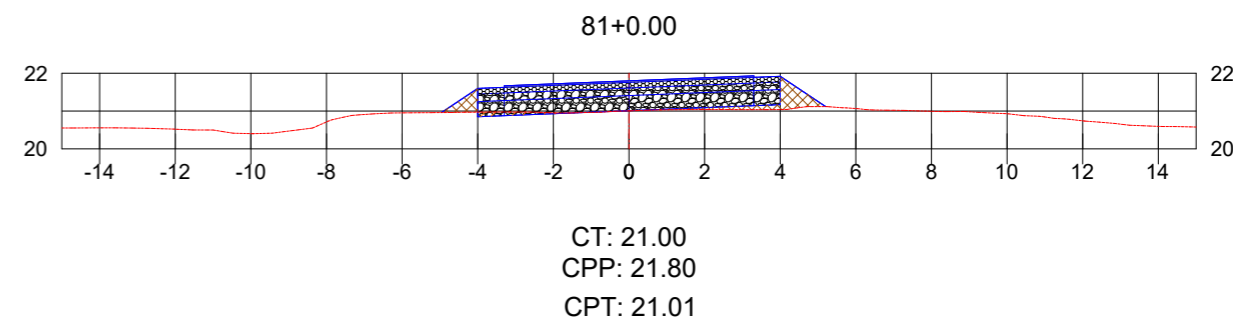
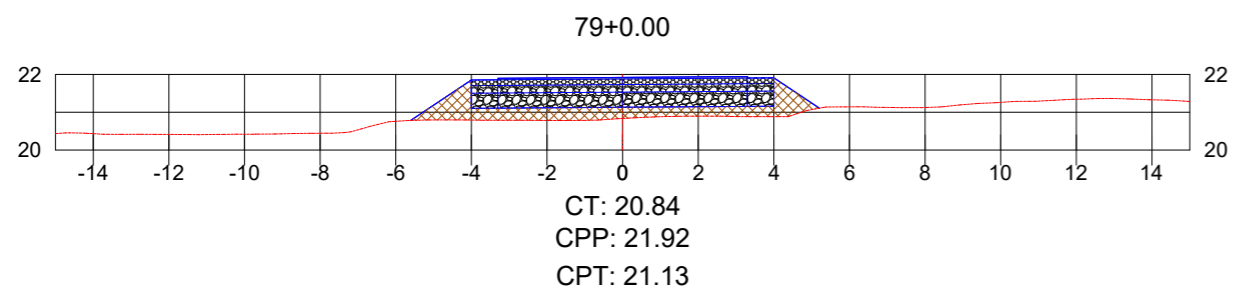
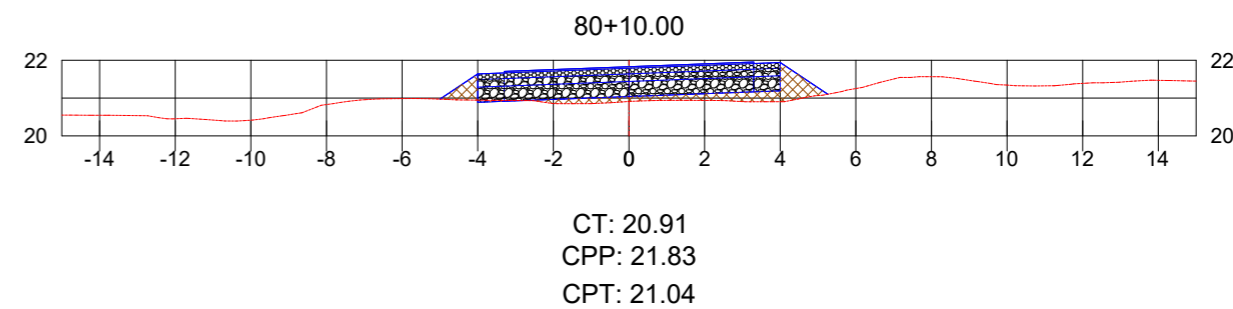
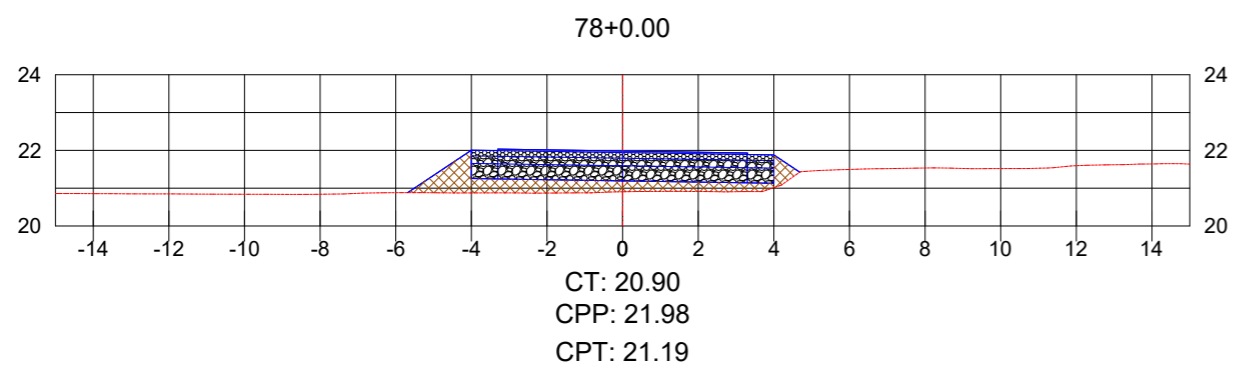
Autor do projeto:
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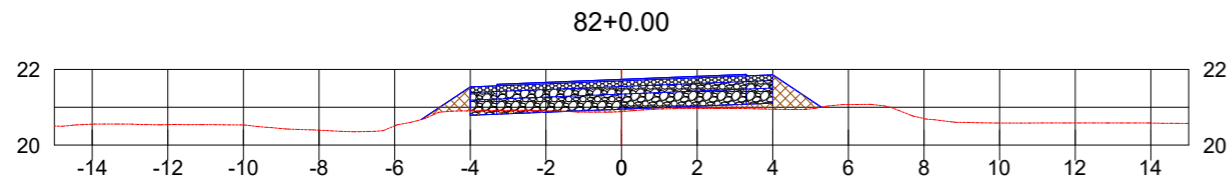
Prancha:
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Obra
R.M. MERCEDES MINATTO SCARDUELLI

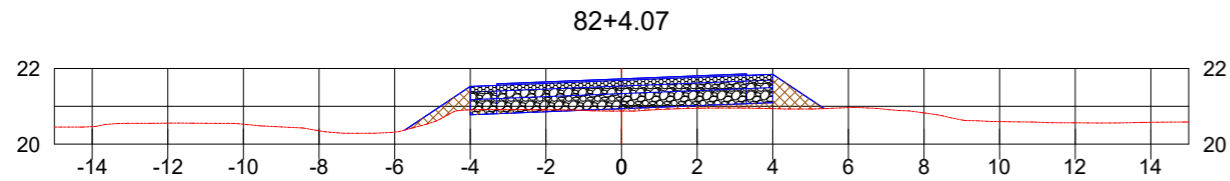
Conteúdo
SEÇÕES DE TERRAPLENAGEM

Local
 R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC

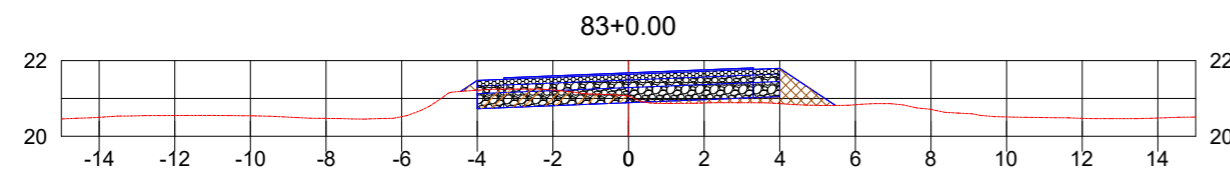




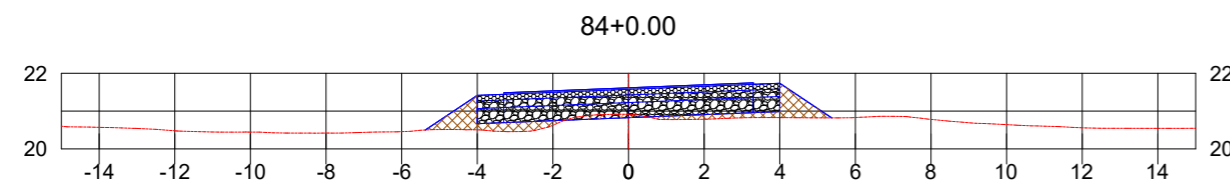
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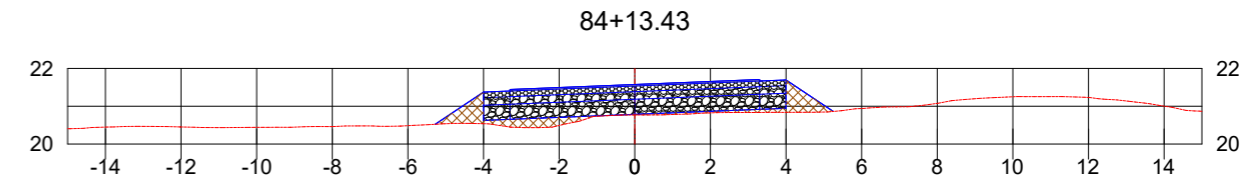
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 CPP: 21.73
 CPT: 20.94



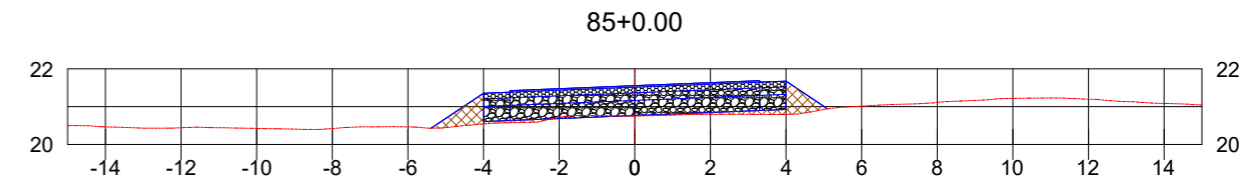
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 CPT: 20.89



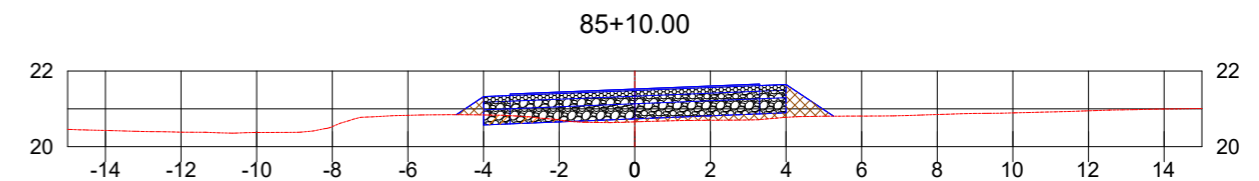
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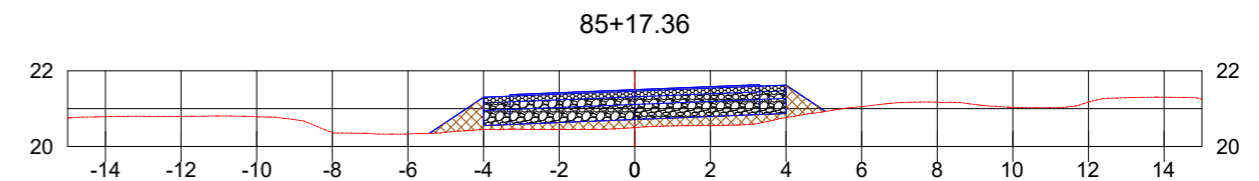
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 CPT: 20.78



CT: 20.75
 CPP: 21.55
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CT: 20.66
 CPP: 21.52
 CPT: 20.73



CT: 20.50
 CPP: 21.50
 CPT: 20.71



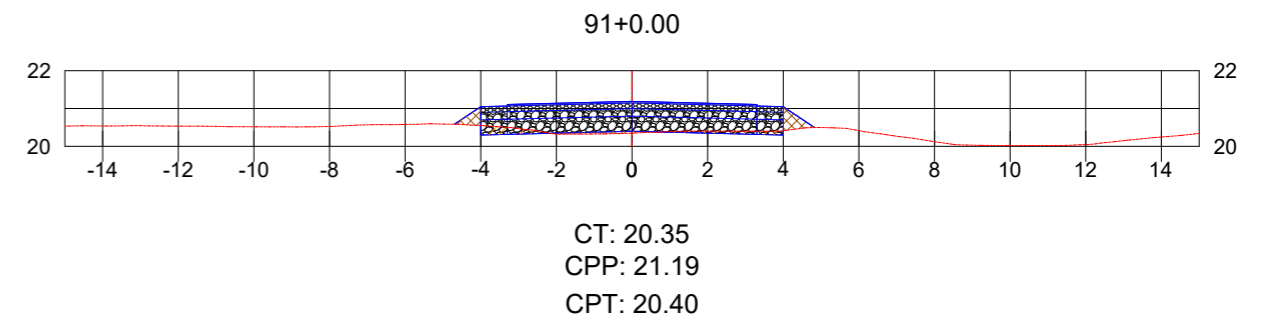
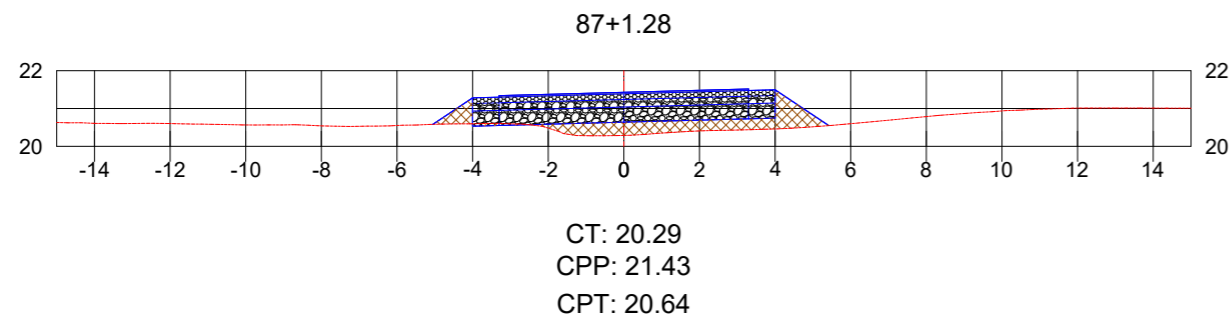
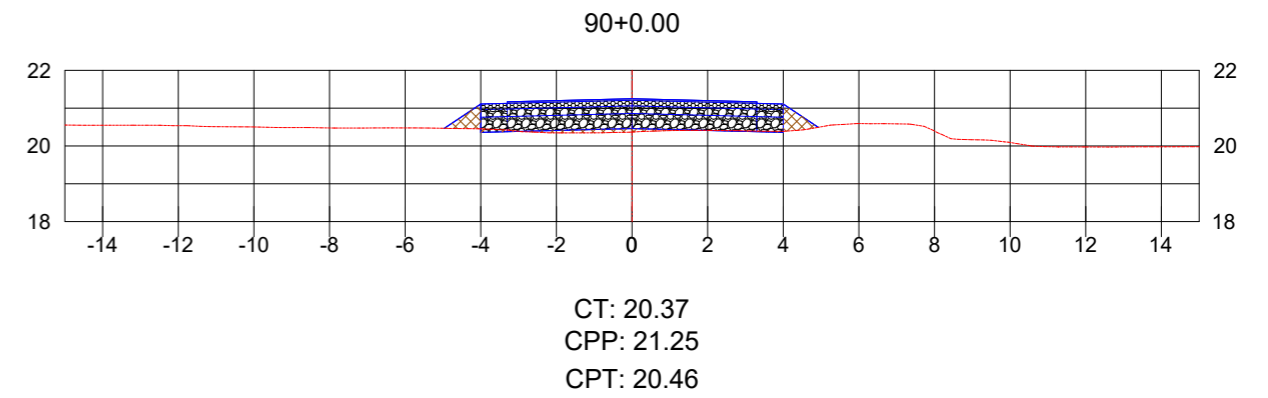
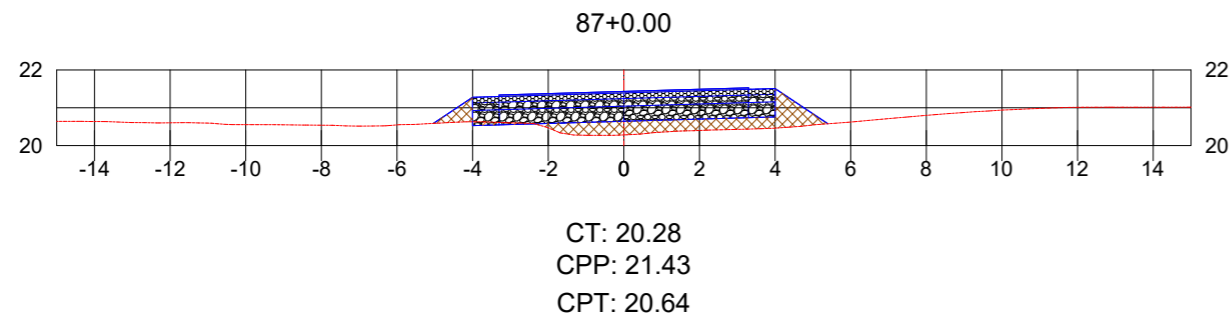
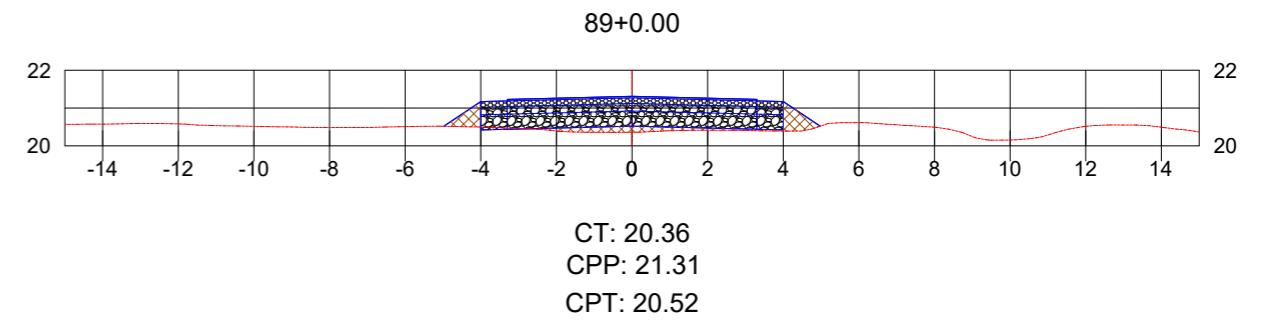
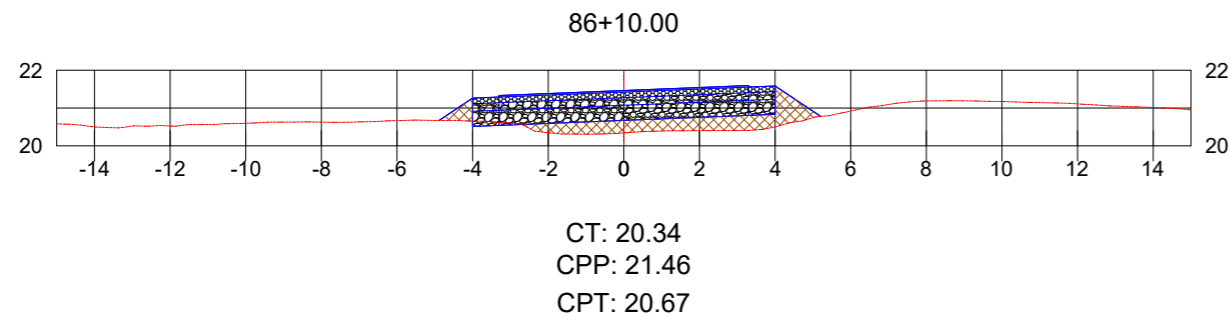
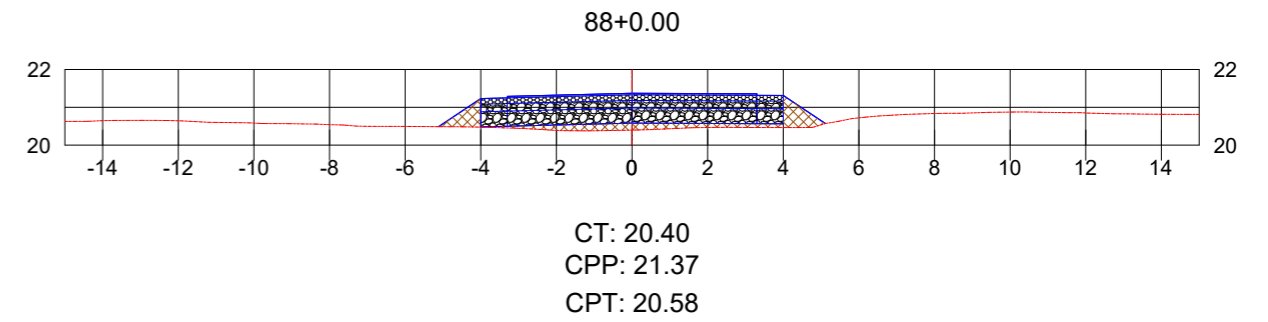
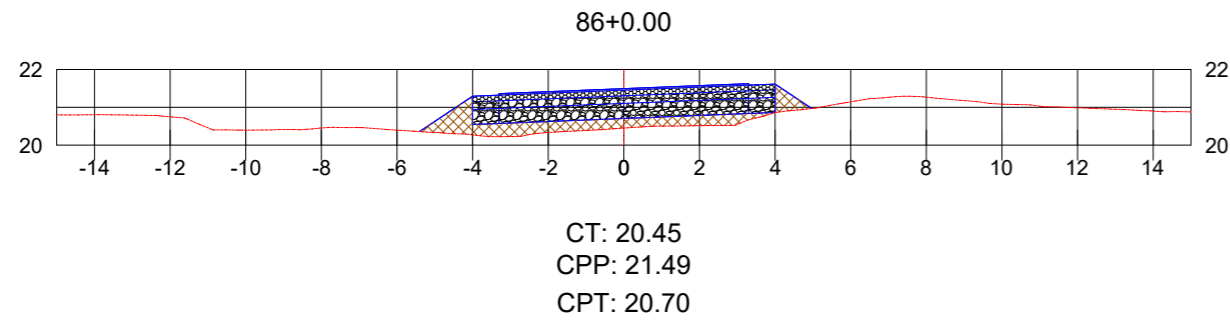
Autor do projeto:
BRUNO FRIGO PASINI
 ENGENHEIRO CIVIL - CREA/SC 137.007-9

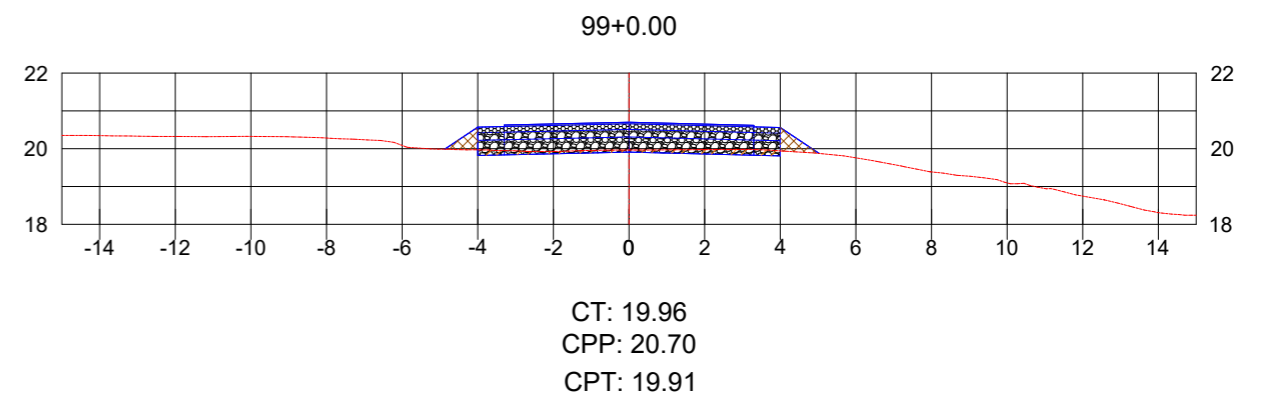
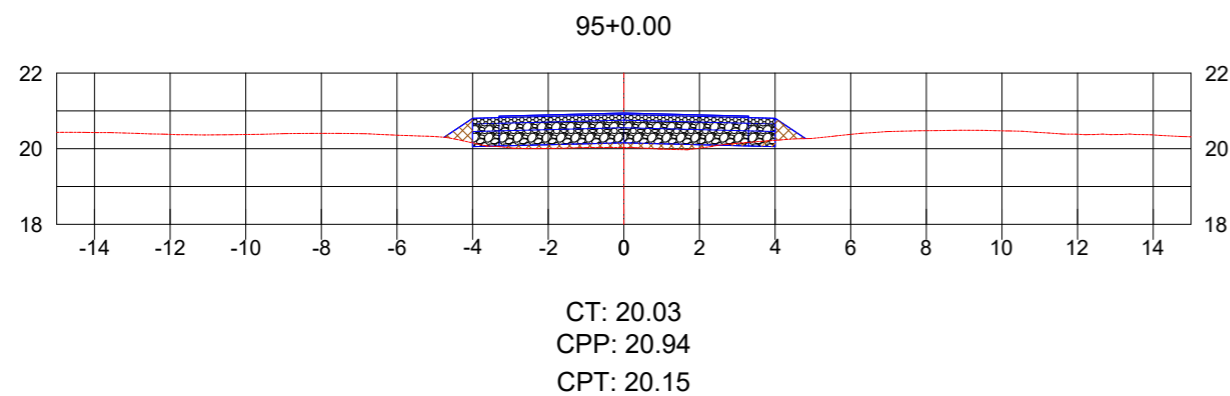
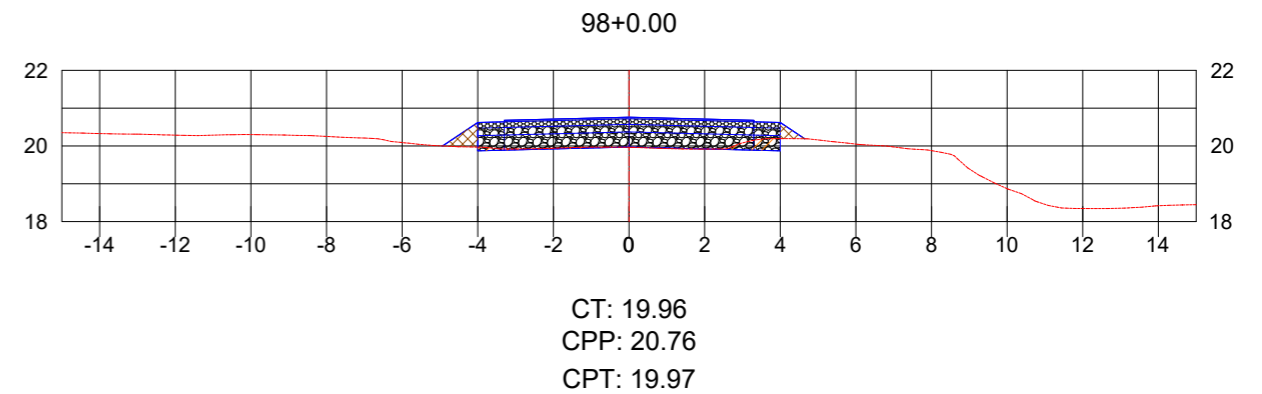
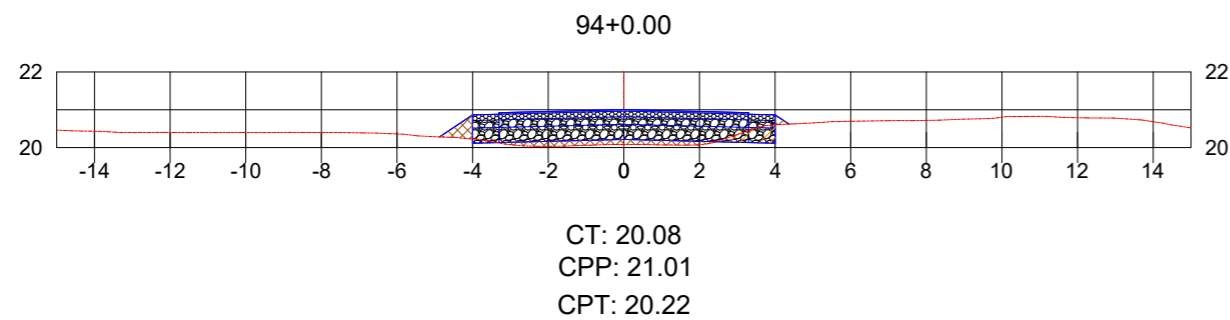
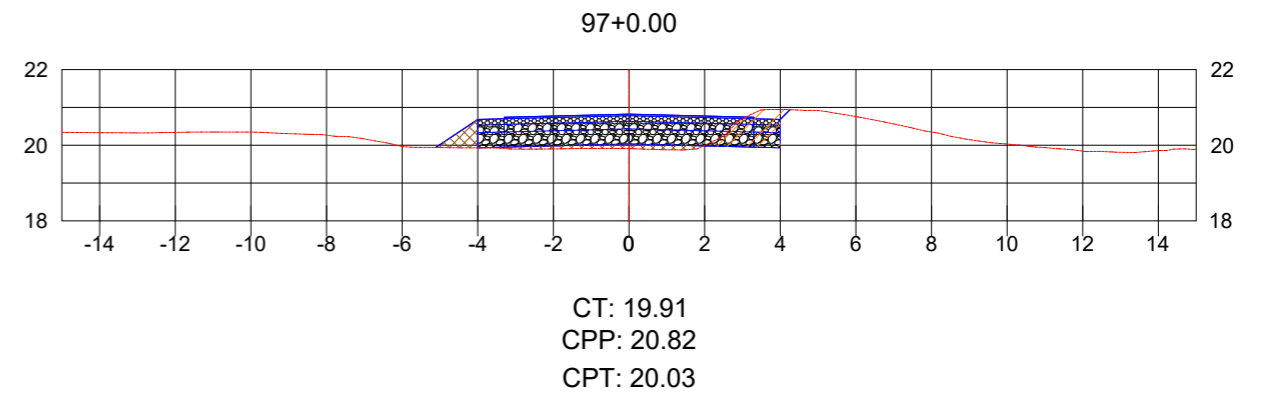
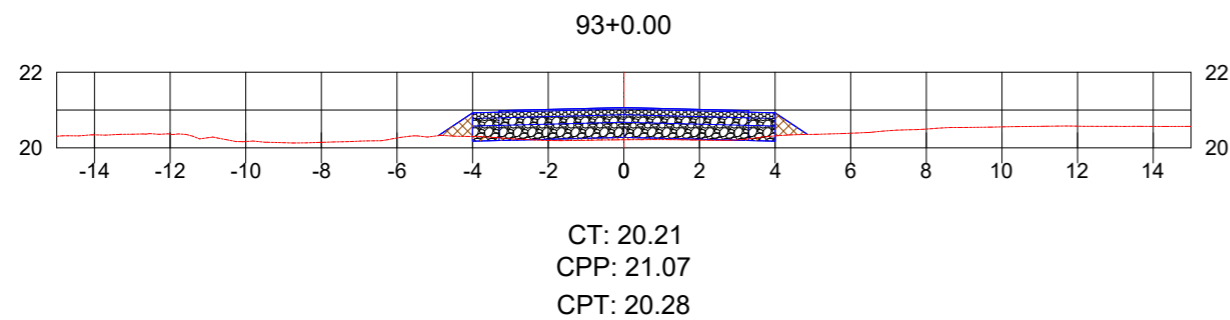
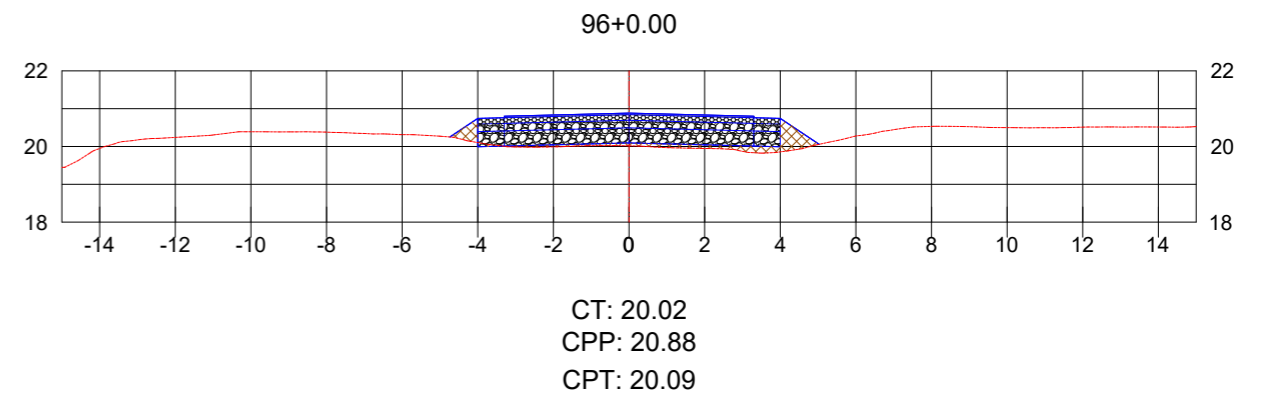
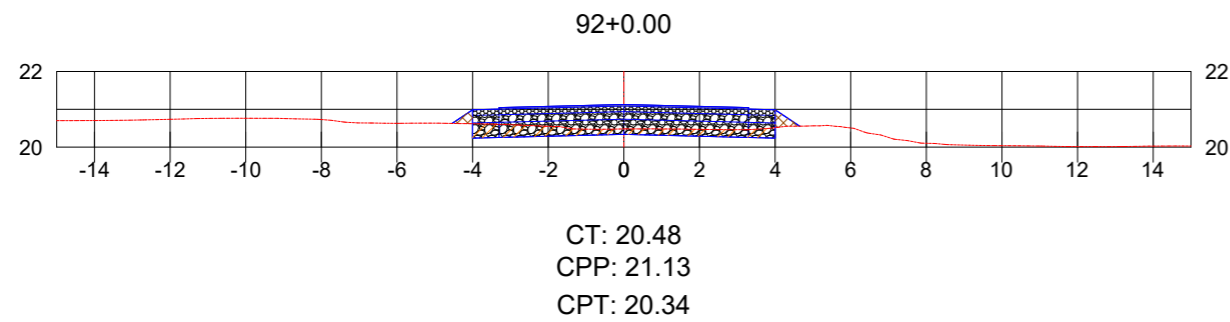
Prancha:
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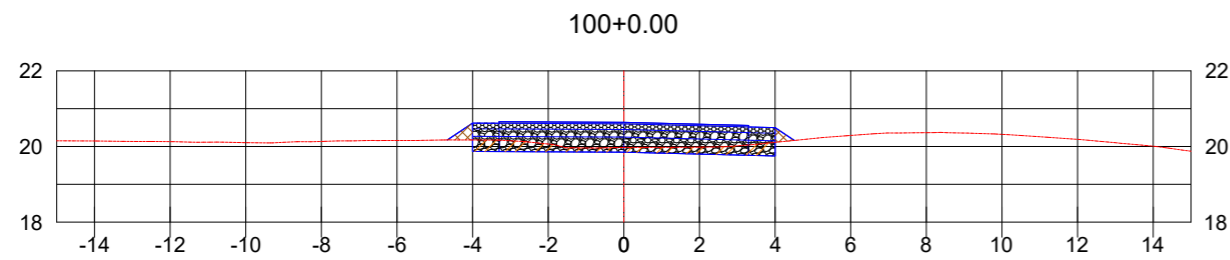
Obra
R.M. MERCEDES MINATTO SCARDUELLI

Conteúdo
SEÇÕES DE TERRAPLENAGEM

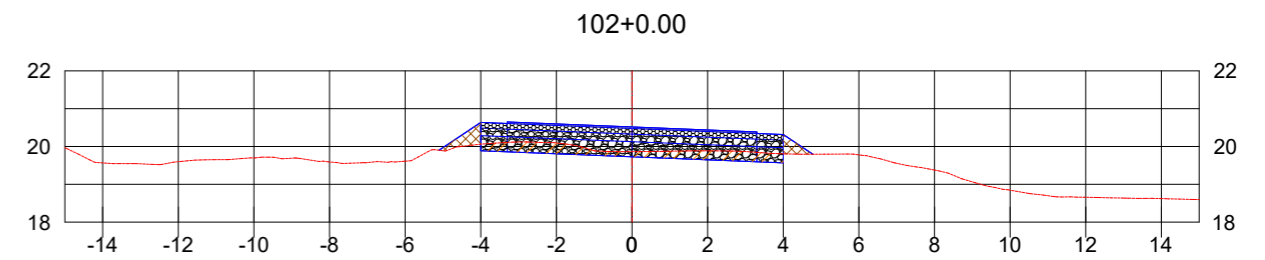
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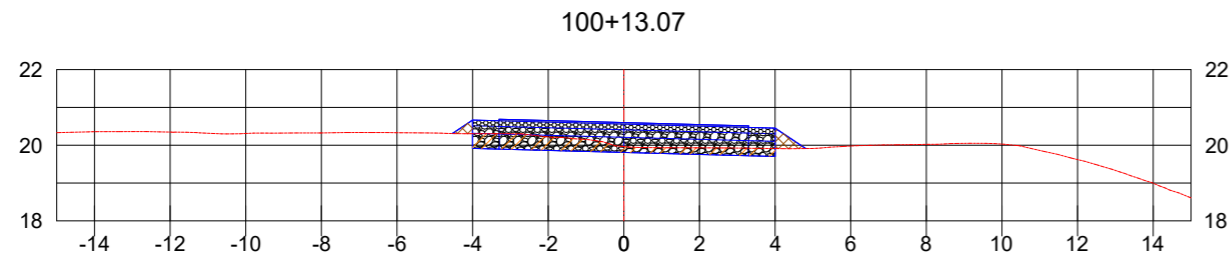




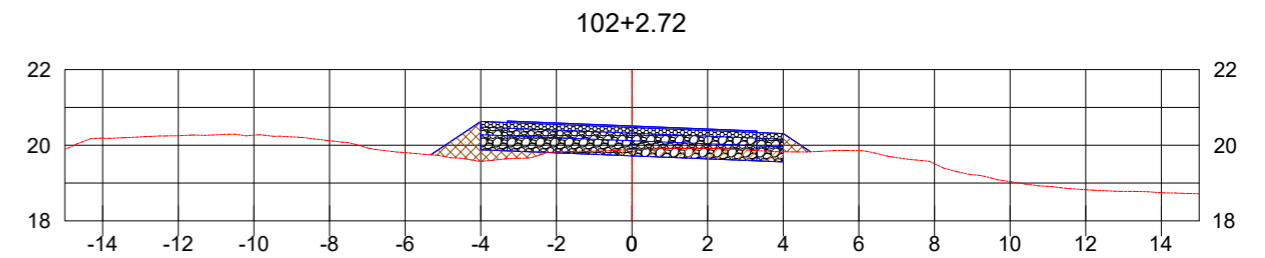
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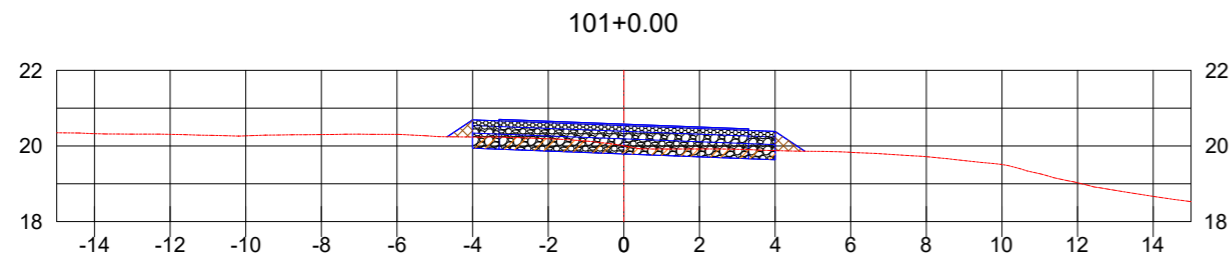
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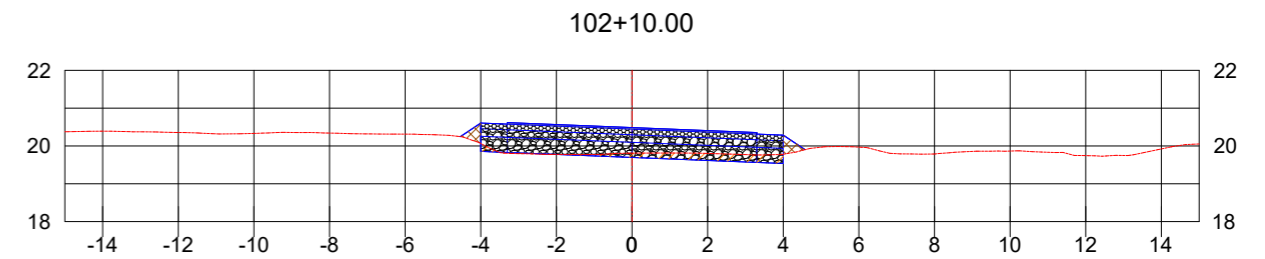
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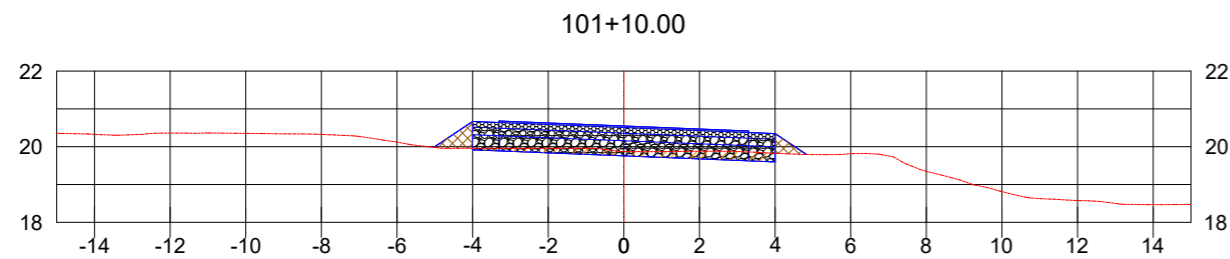
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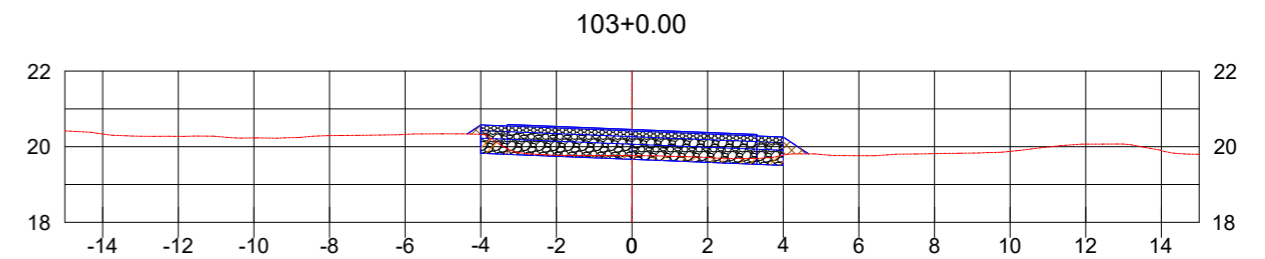
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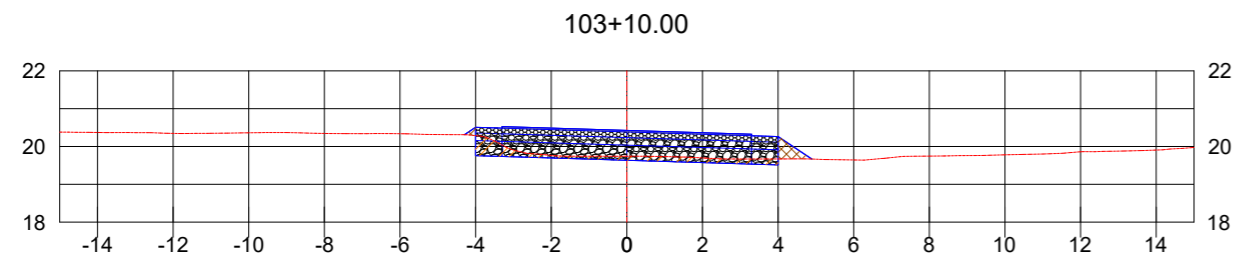
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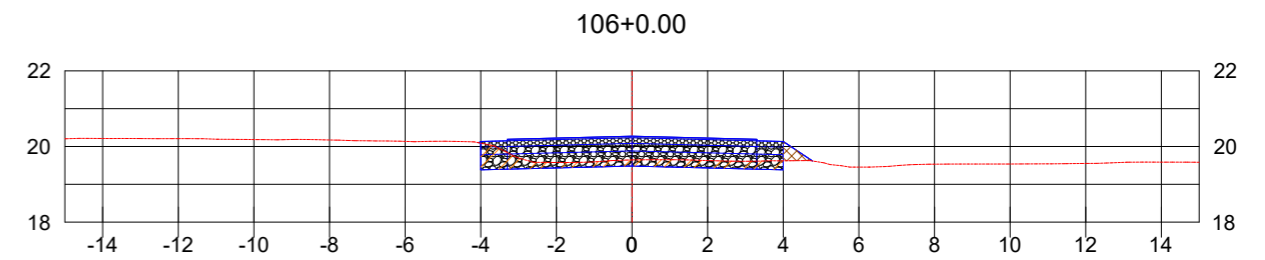
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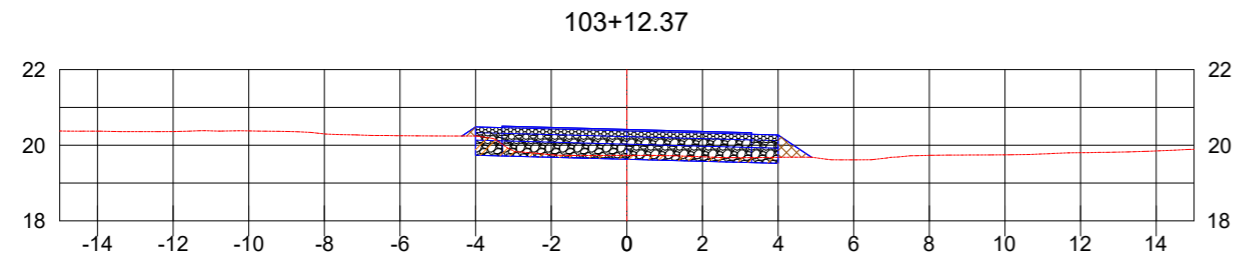
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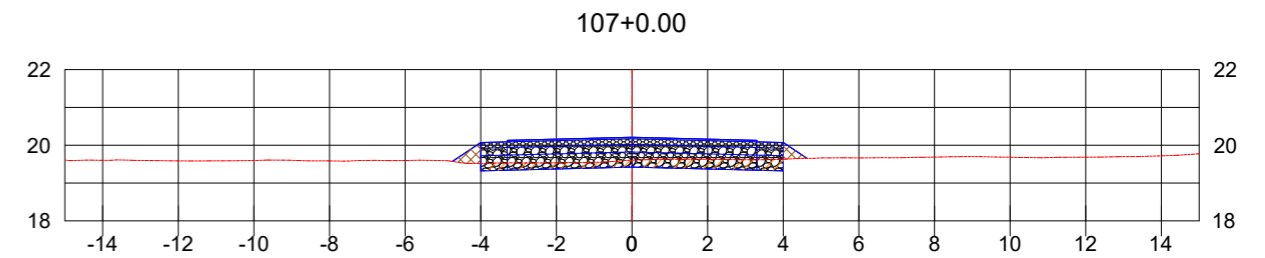
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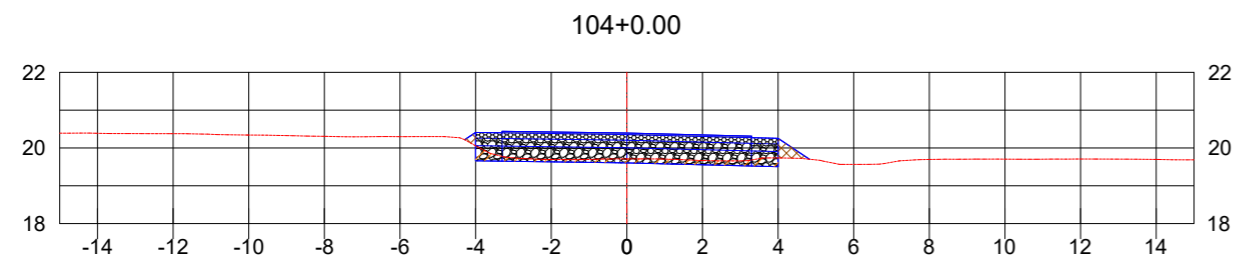
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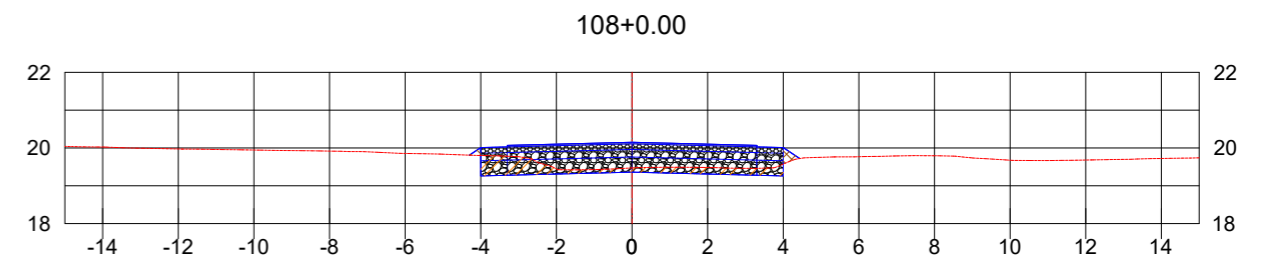
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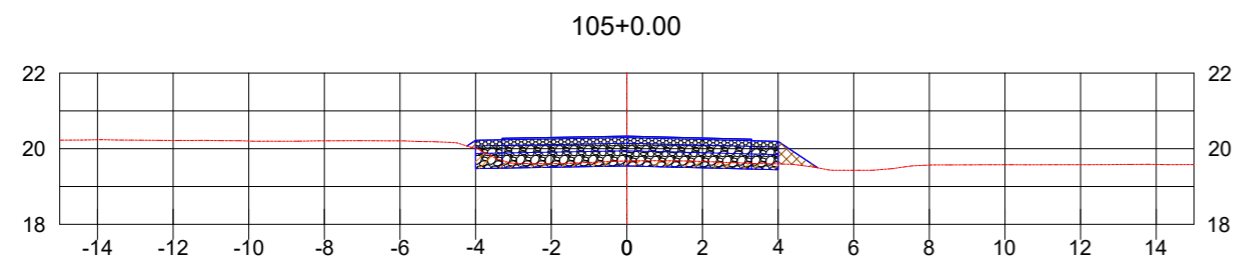
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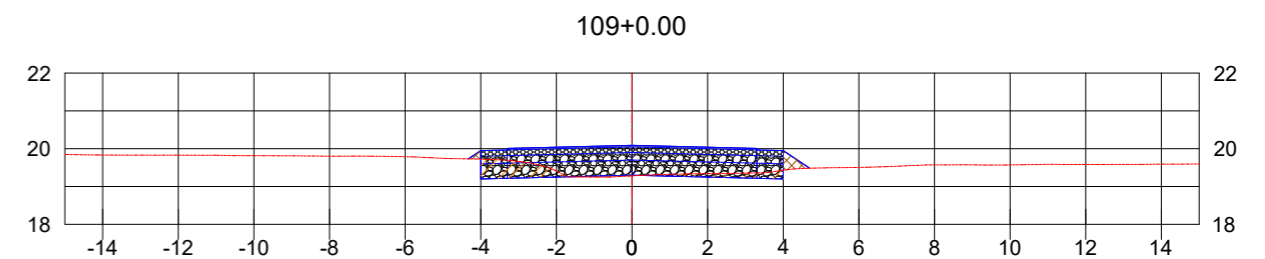
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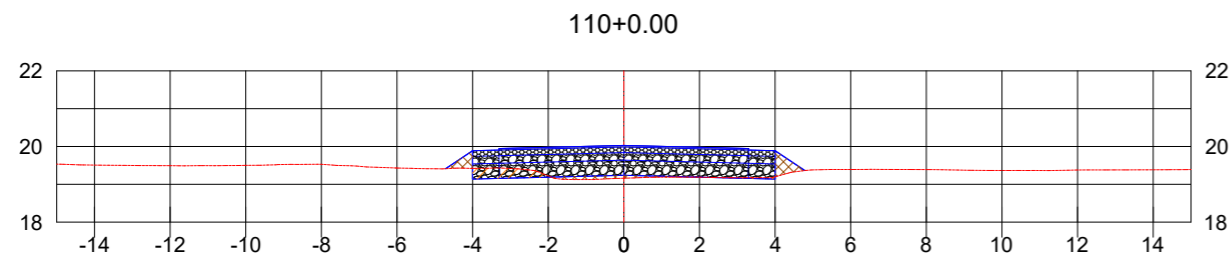
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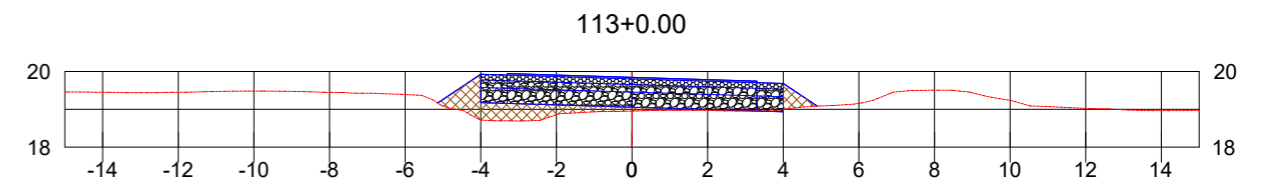
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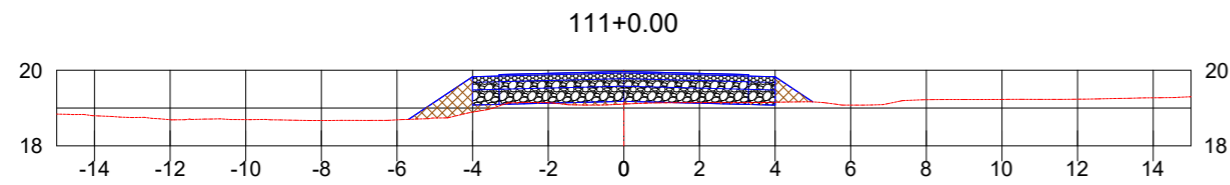
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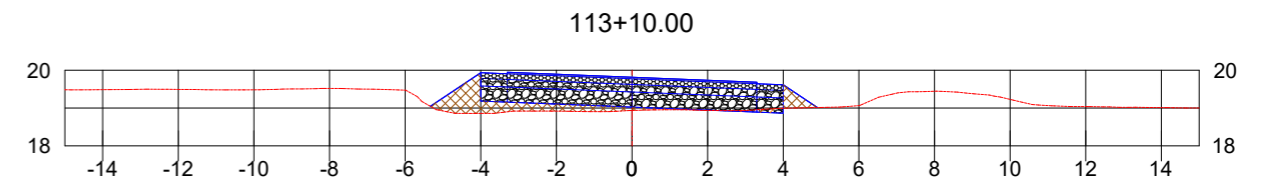
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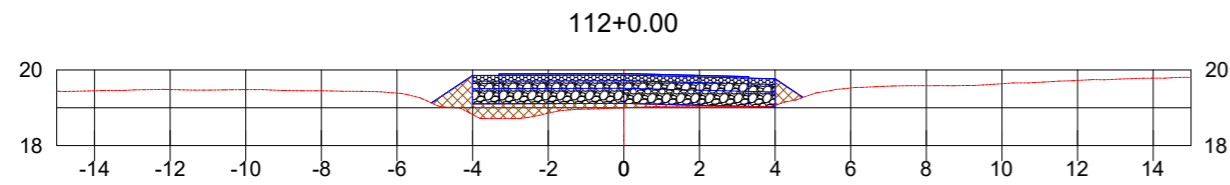
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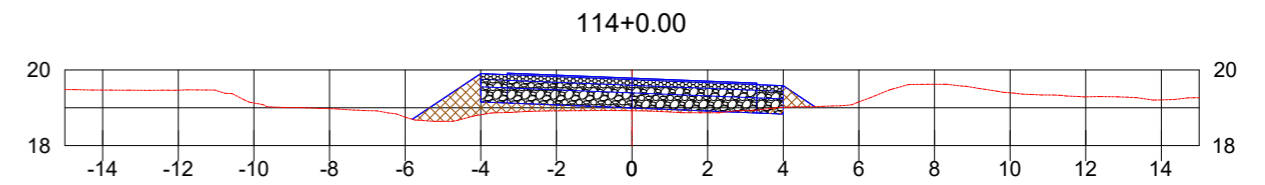
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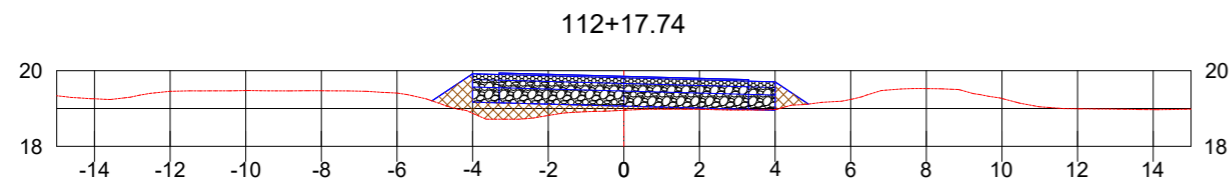
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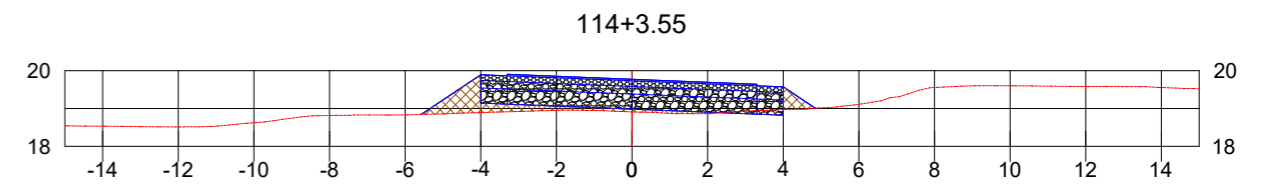
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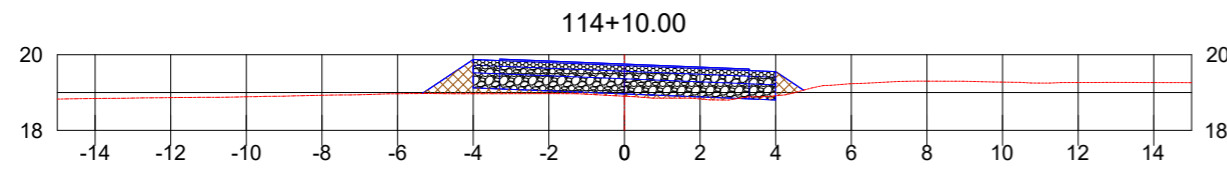
Autor do projeto:
BRUNO FRIGO PASINI
 ENGENHEIRO CIVIL - CREA/SC 137.007-9

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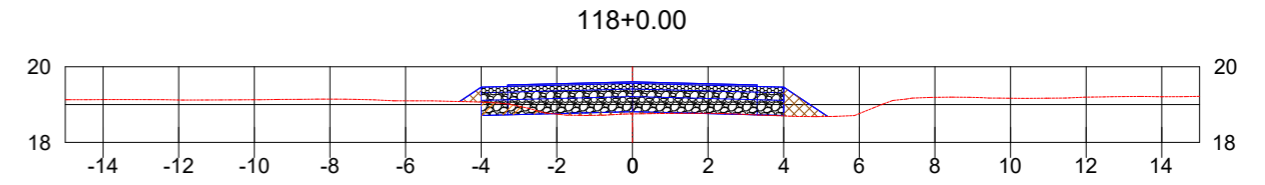
Obra
R.M. MERCEDES MINATTO SCARDUELLI

Conteúdo
SEÇÕES DE TERRAPLENAGEM

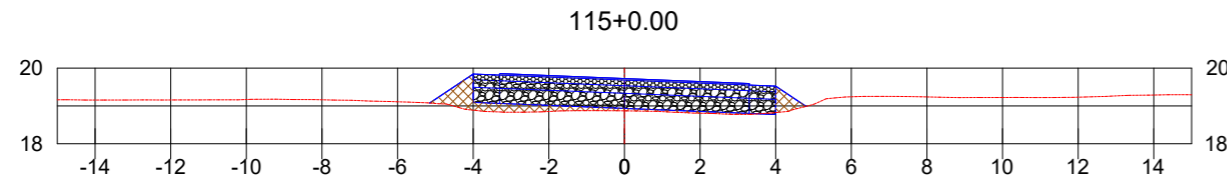
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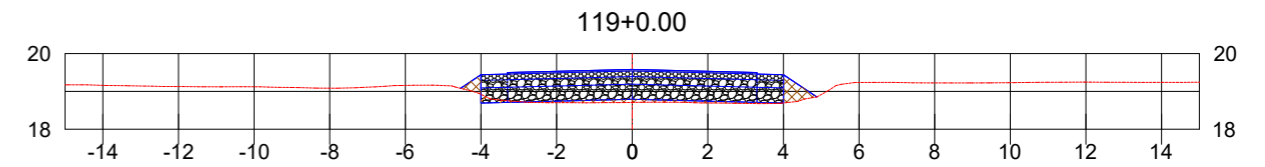
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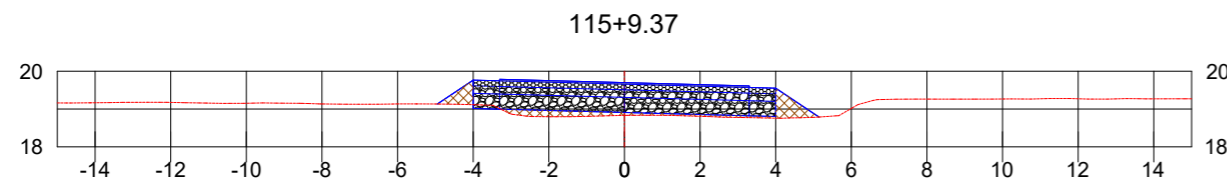
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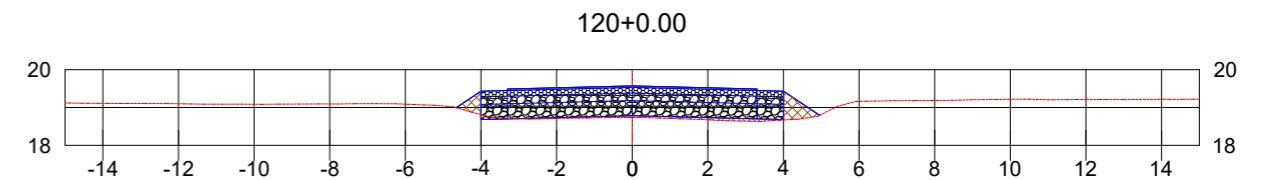
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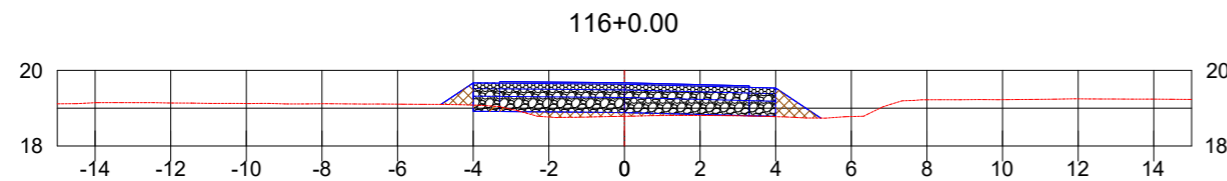
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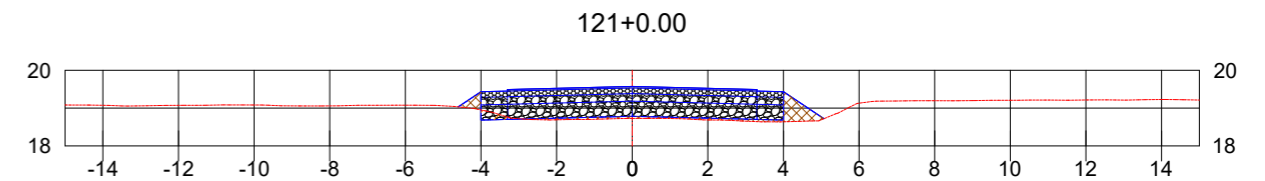
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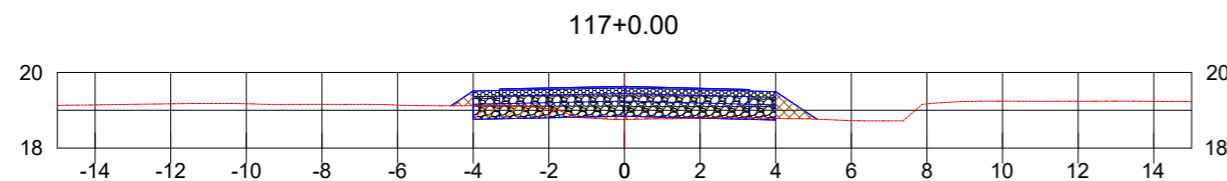
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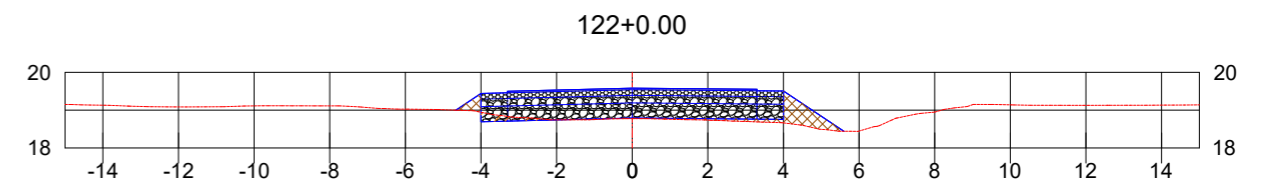
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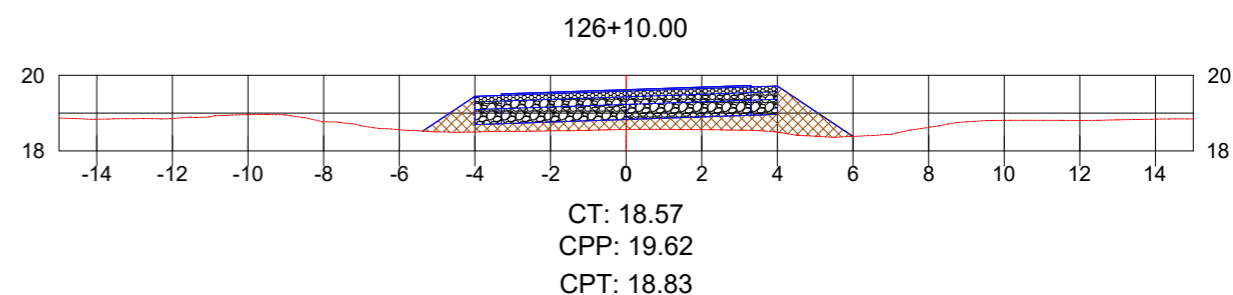
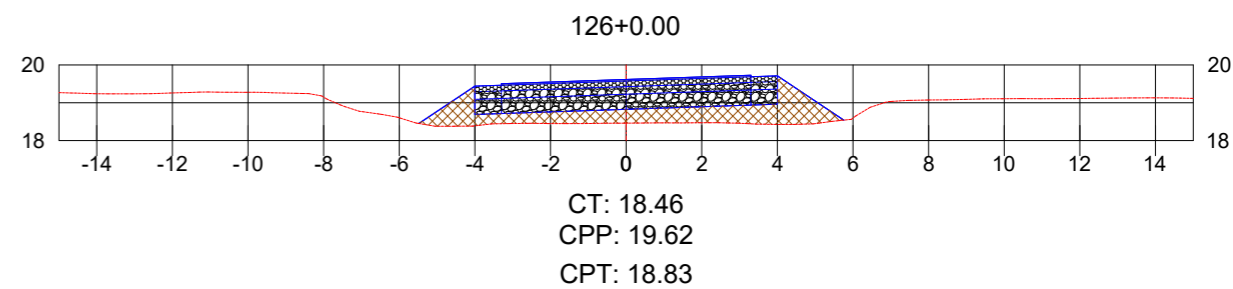
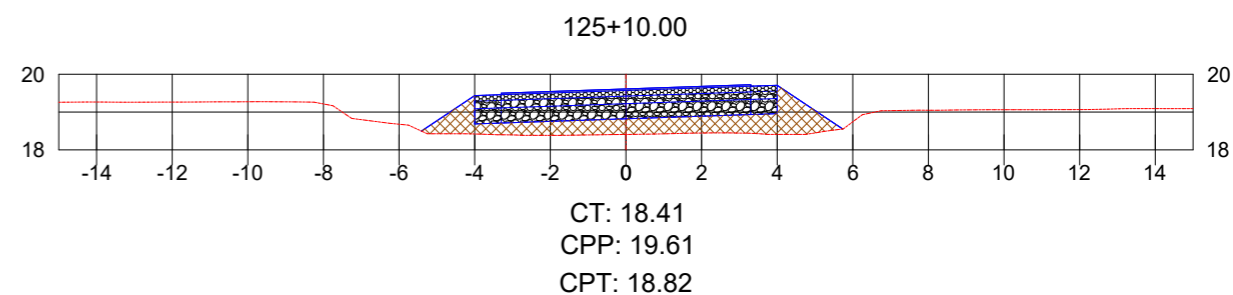
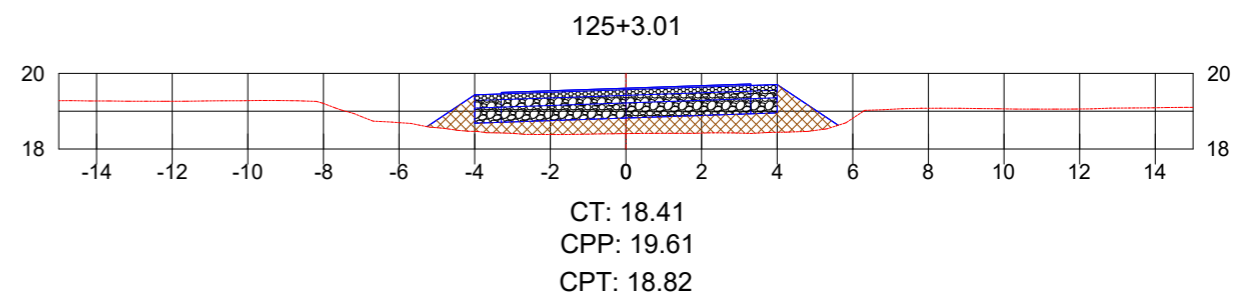
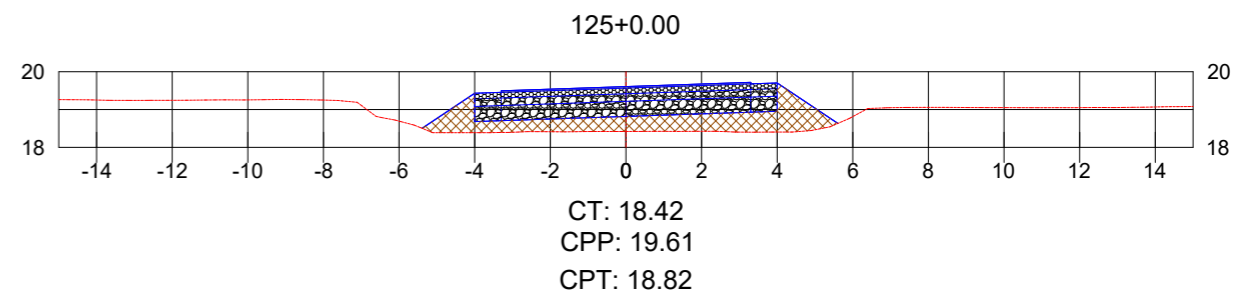
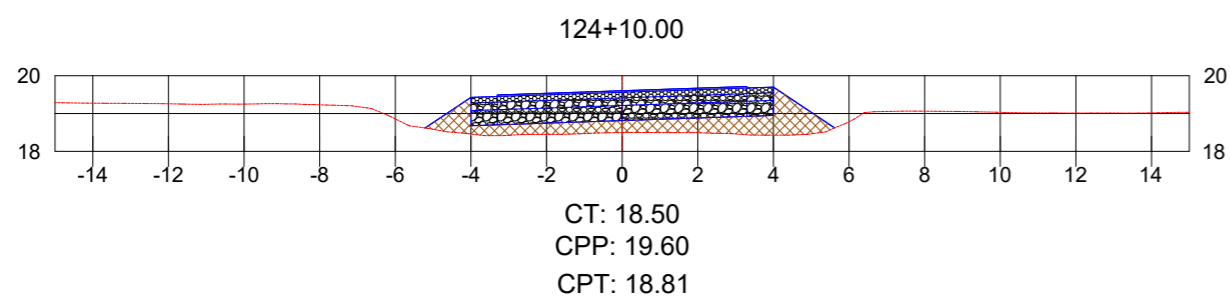
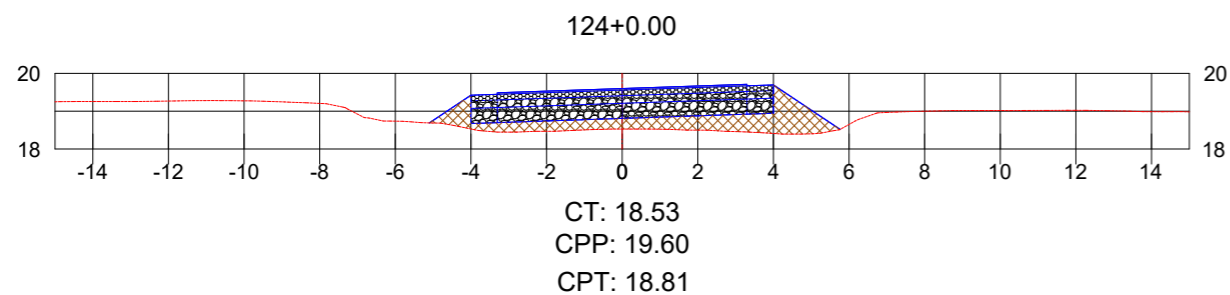
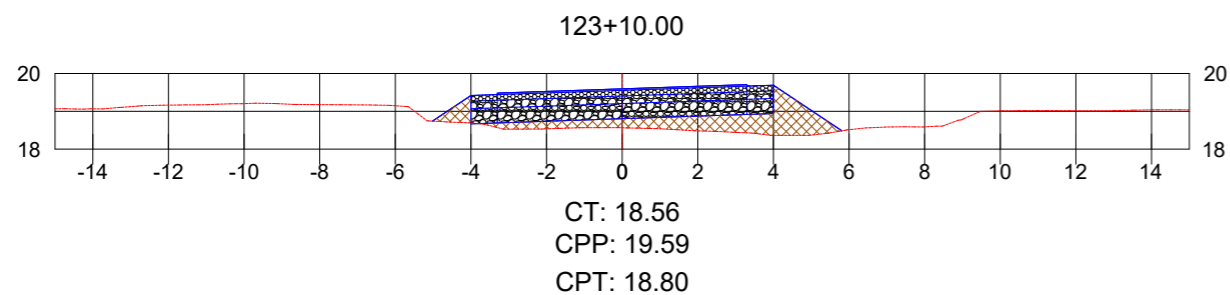
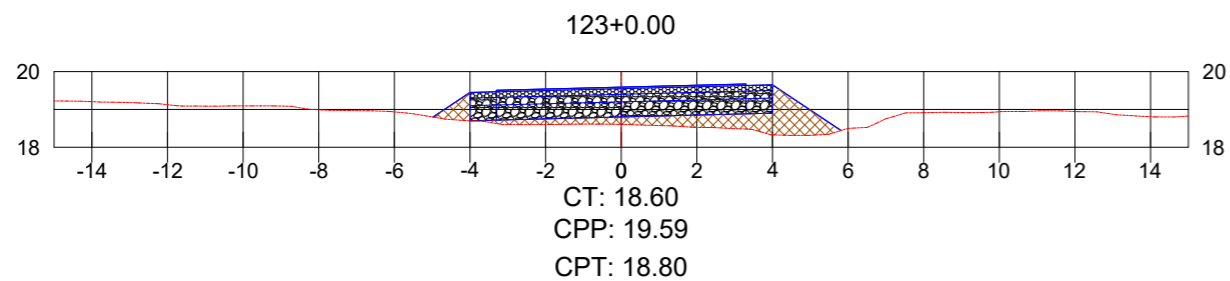
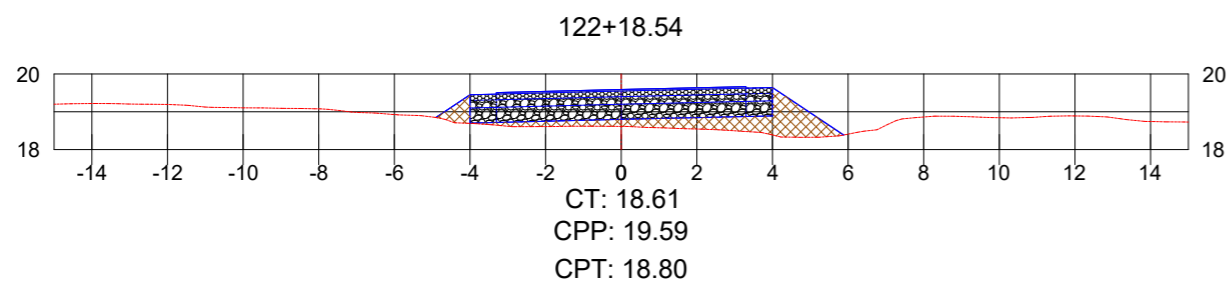
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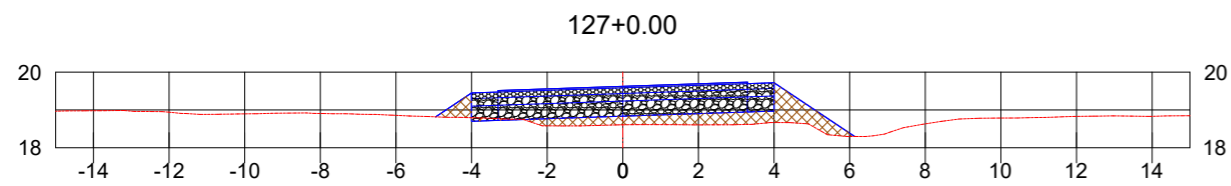


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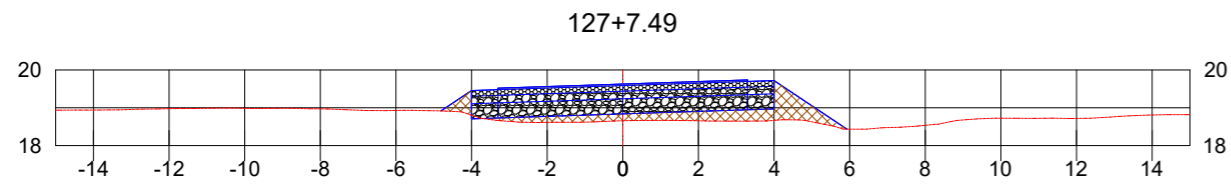


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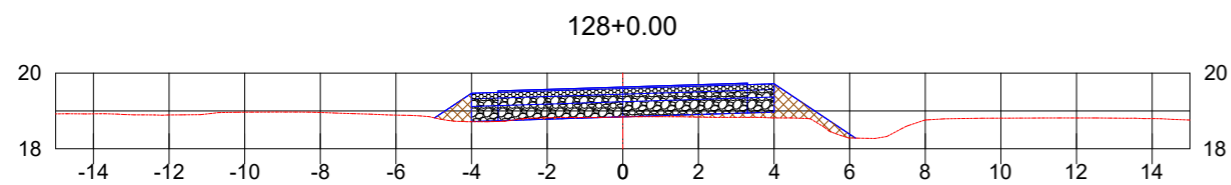




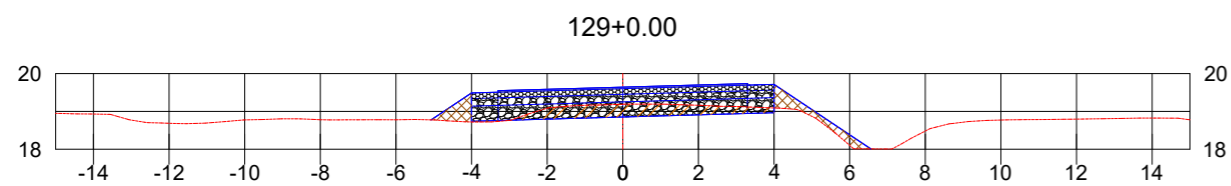
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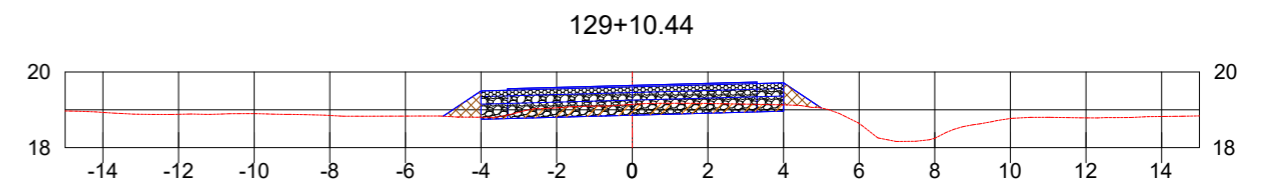
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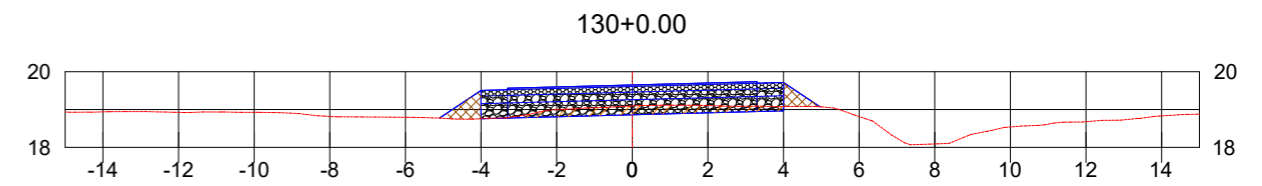
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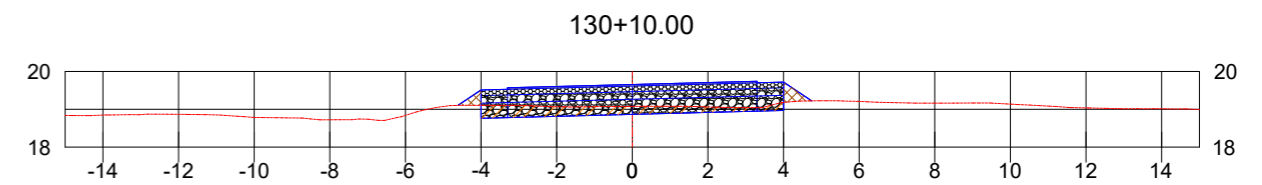
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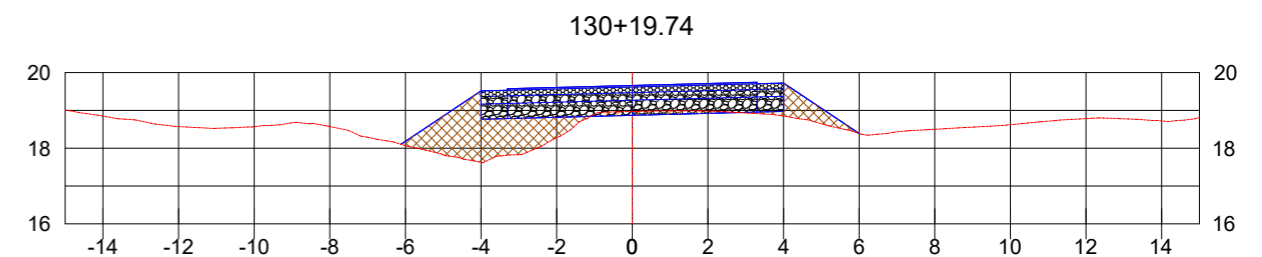
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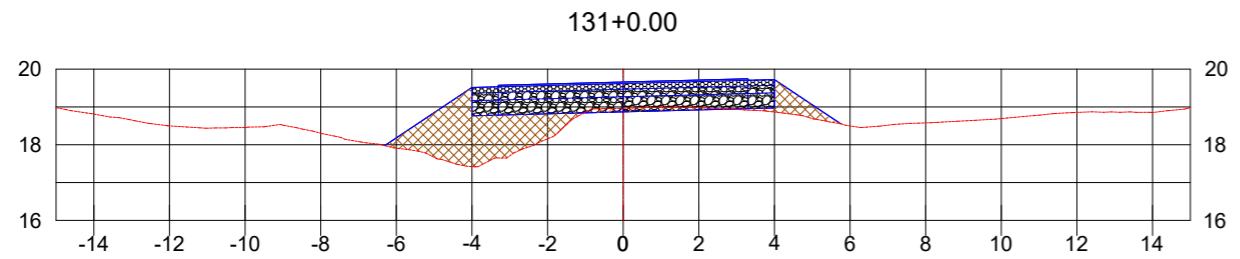
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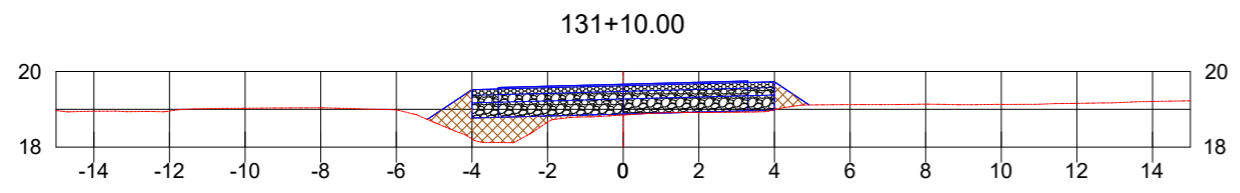
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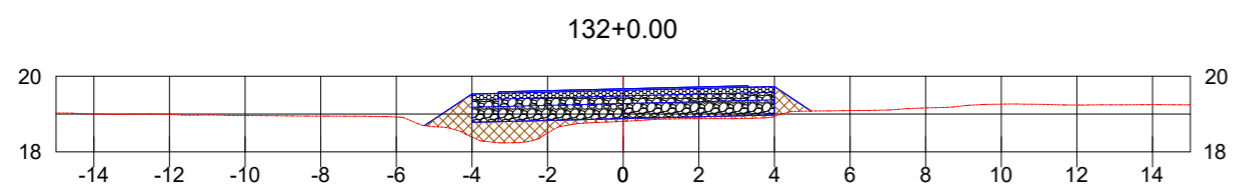
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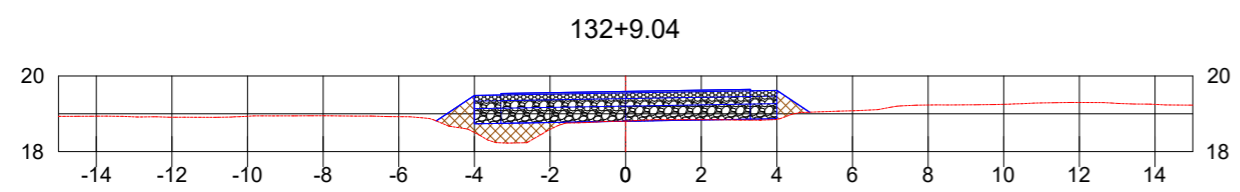
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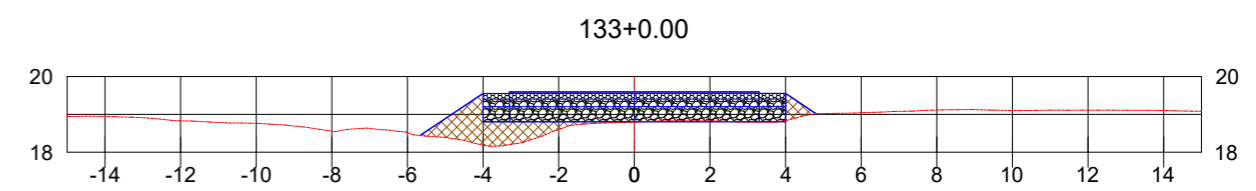
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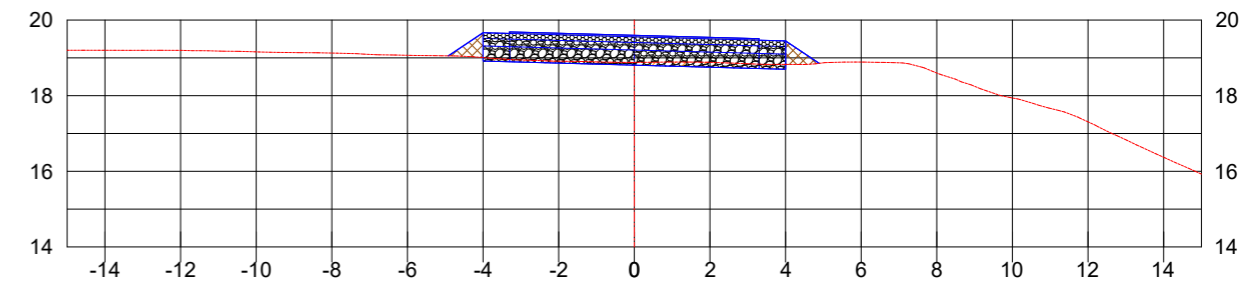
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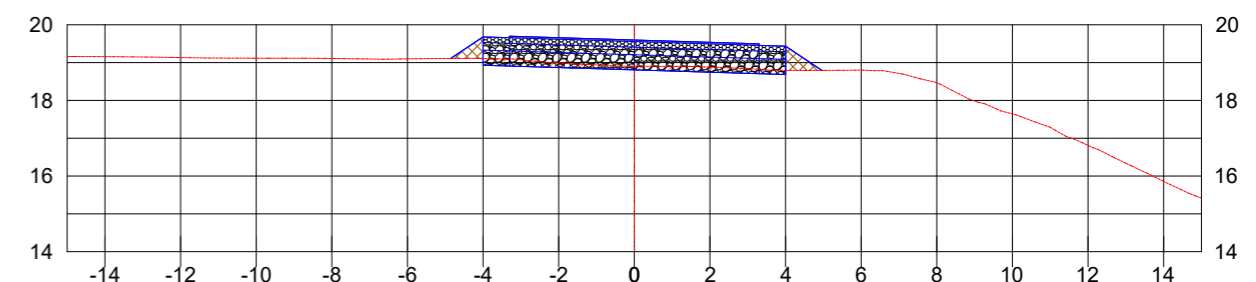
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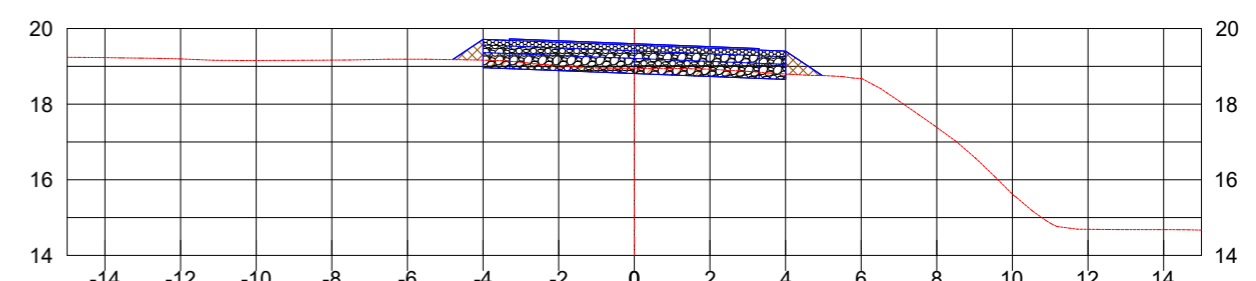
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 CPT: 18.81
 134+10.00



CT: 18.95
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 CPT: 18.81



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 ENGENHEIRO CIVIL - CREA/SC 137.007-9

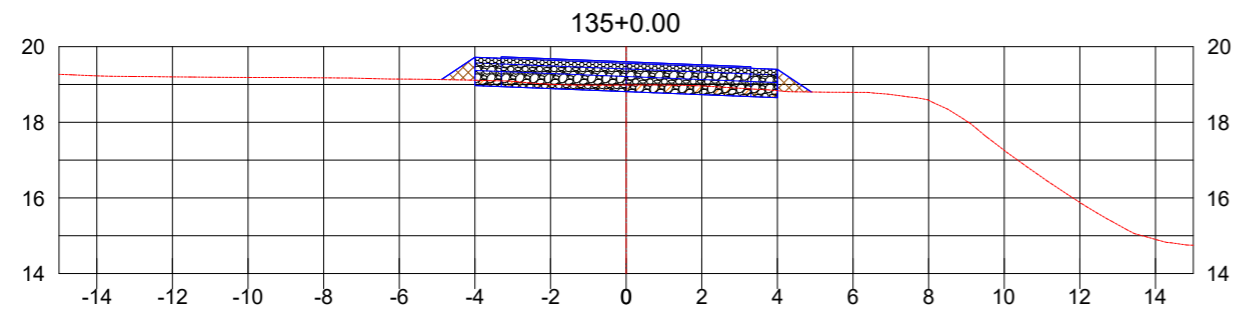
Prancha:
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Obra
R.M. MERCEDES MINATTO SCARDUELLI

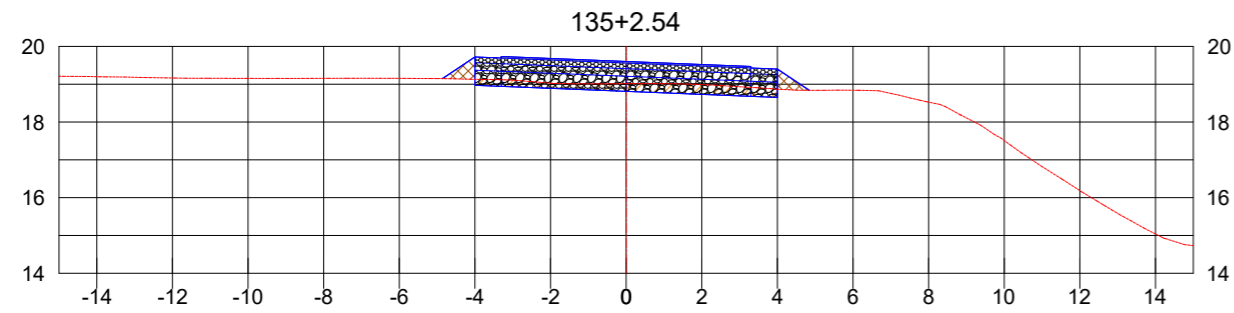
Conteúdo
SEÇÕES DE TERRAPLENAGEM

Local
 R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC

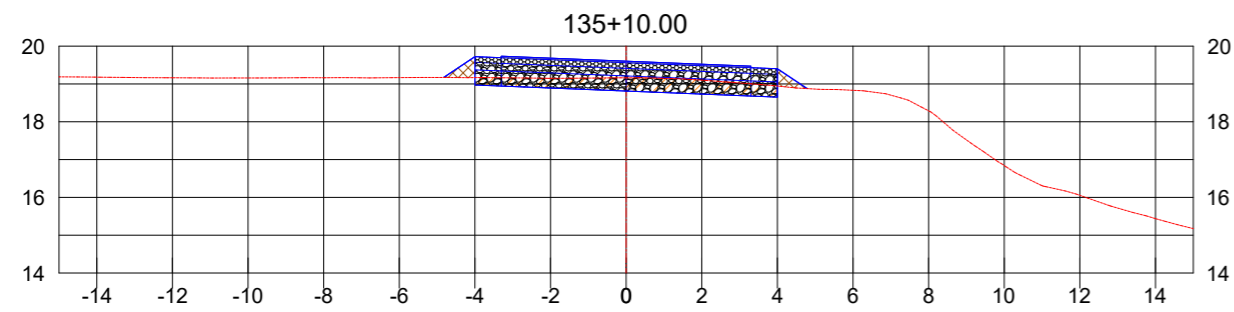
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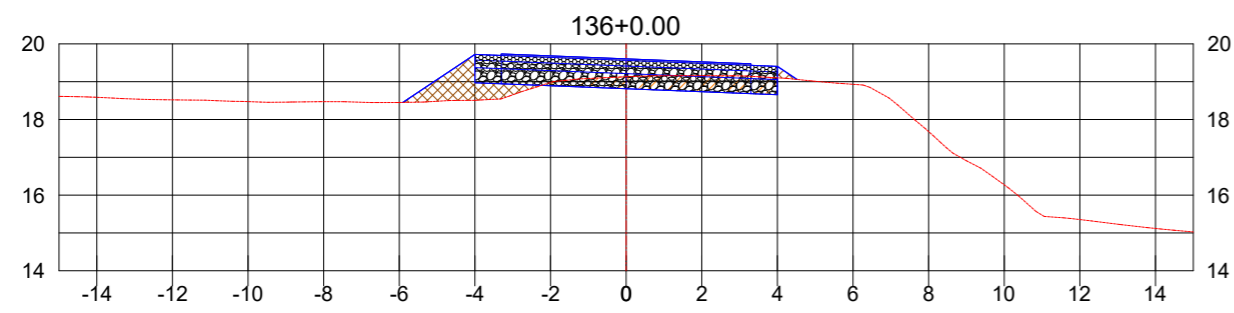
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 CPT: 18.81



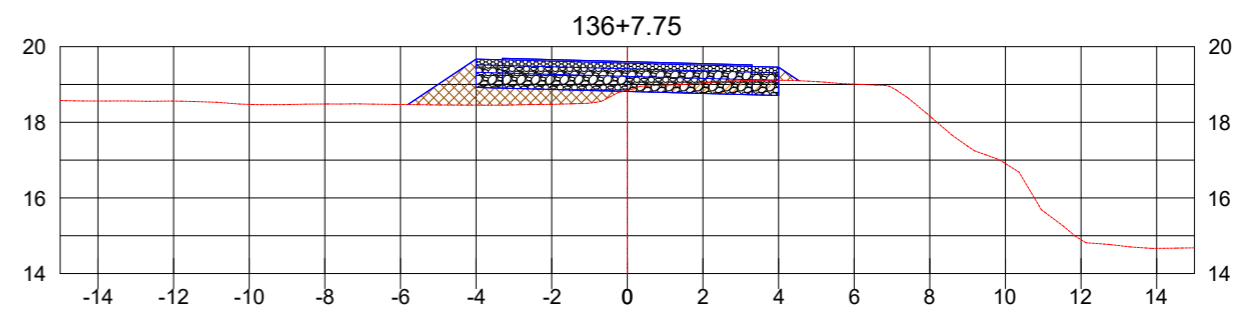
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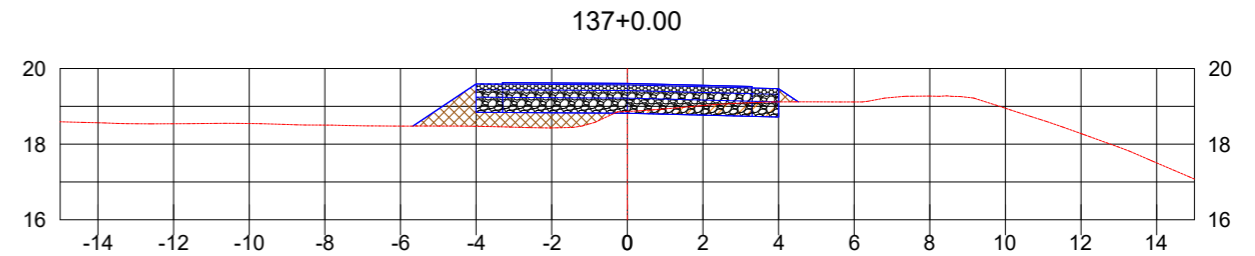
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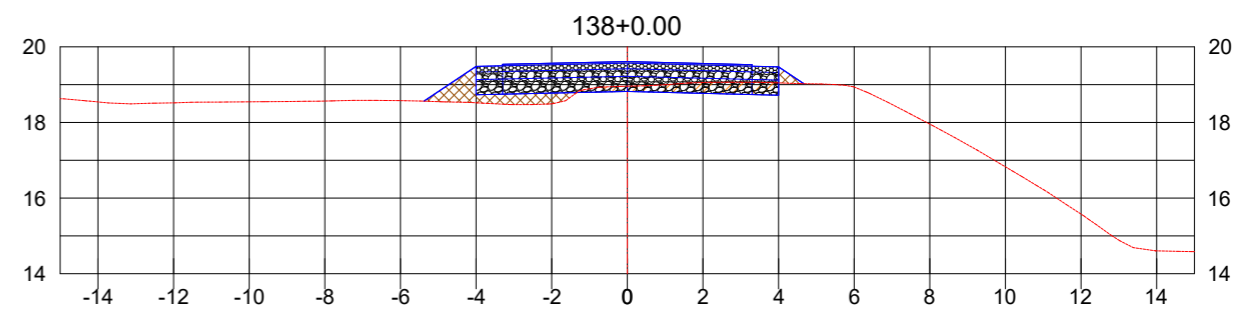
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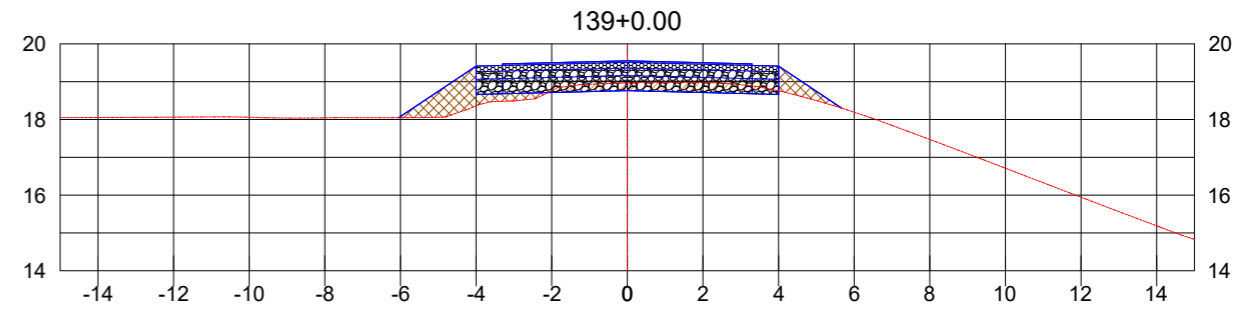
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CT: 18.87
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CT: 18.96
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CT: 18.97
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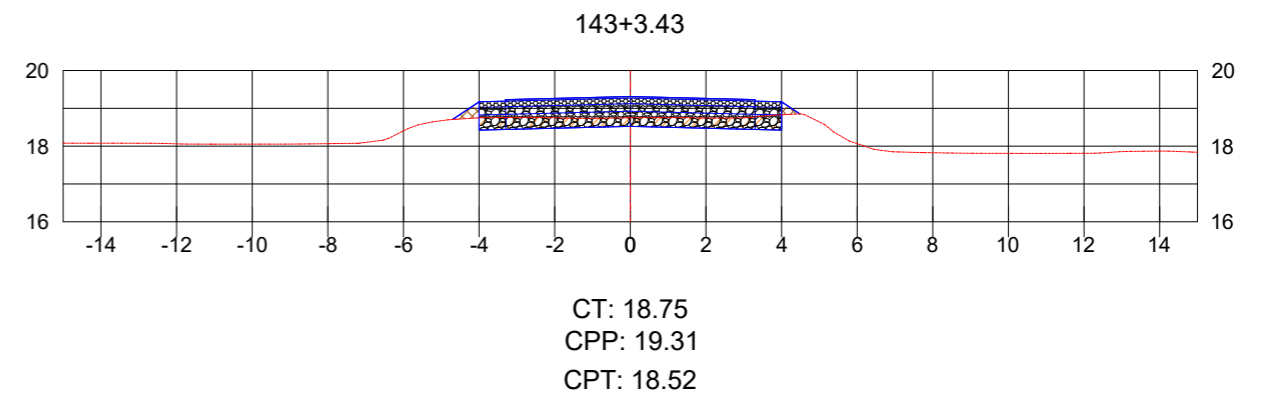
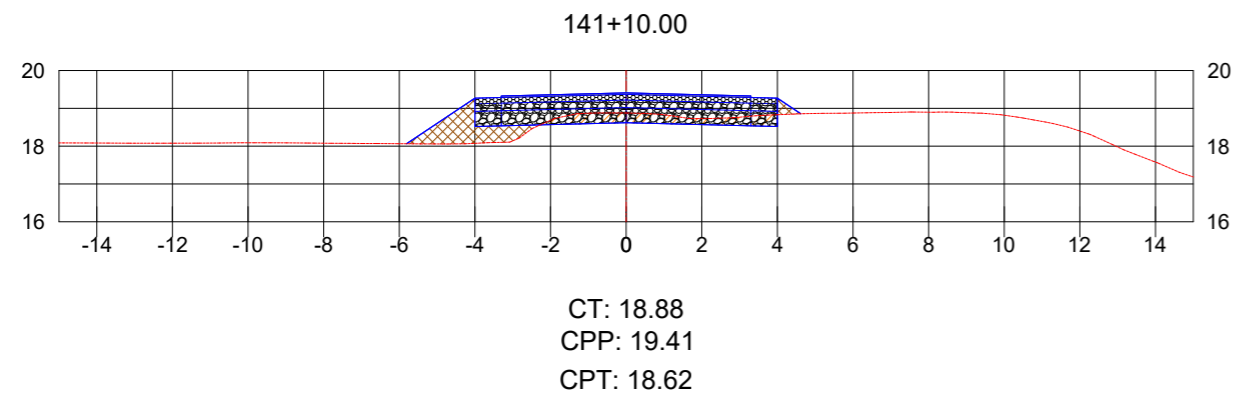
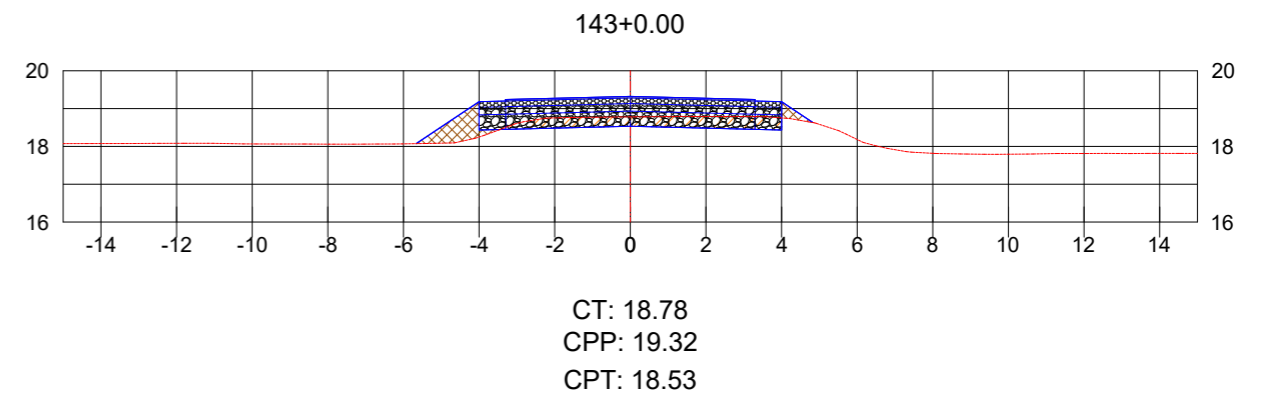
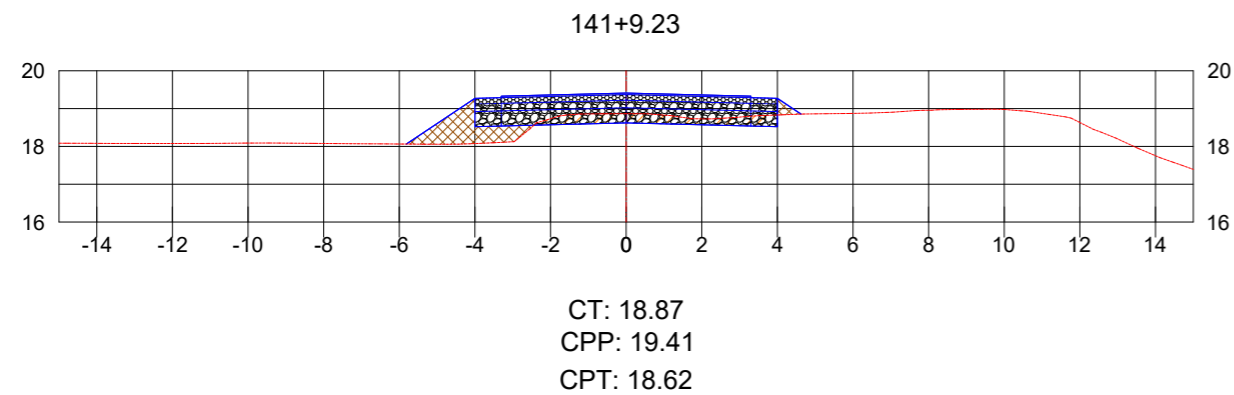
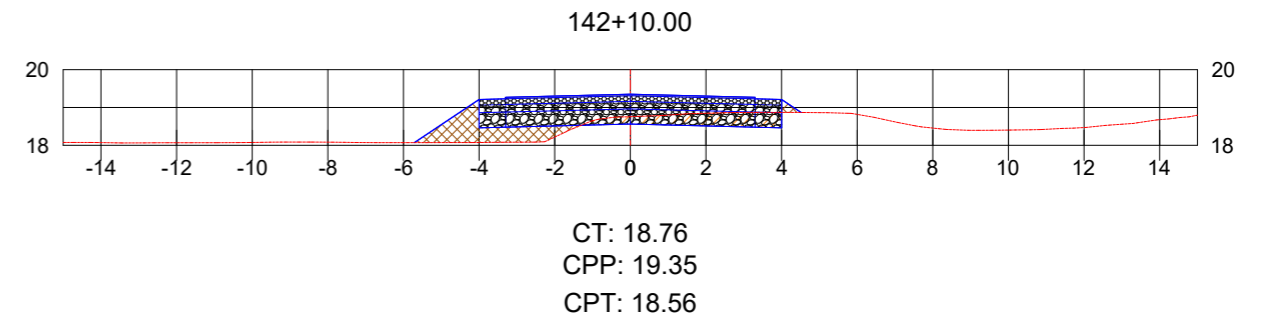
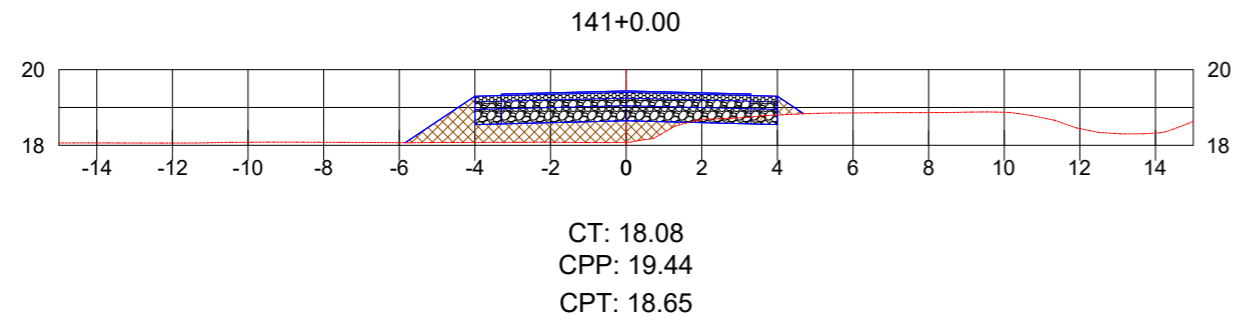
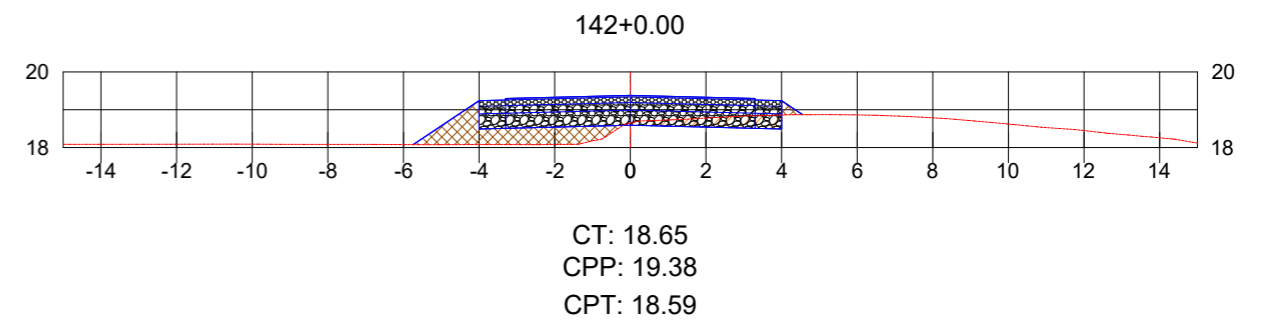
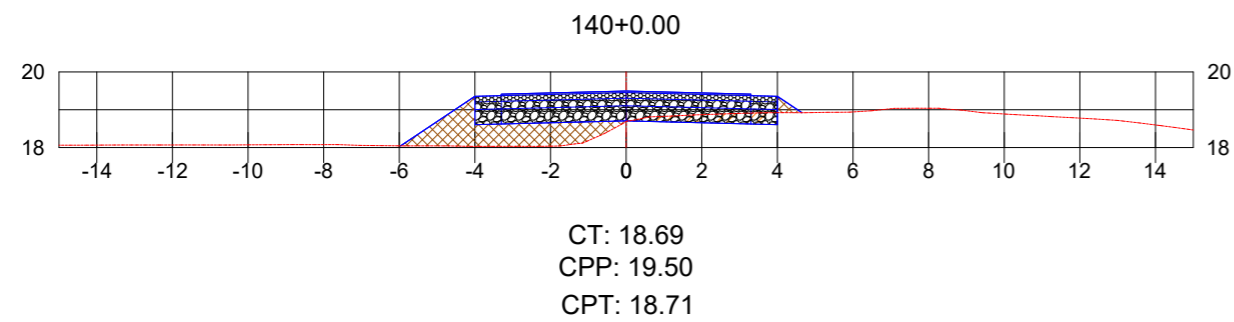
Autor do projeto:
BRUNO FRIGO PASINI
 ENGENHEIRO CIVIL - CREA/SC 137.007-9

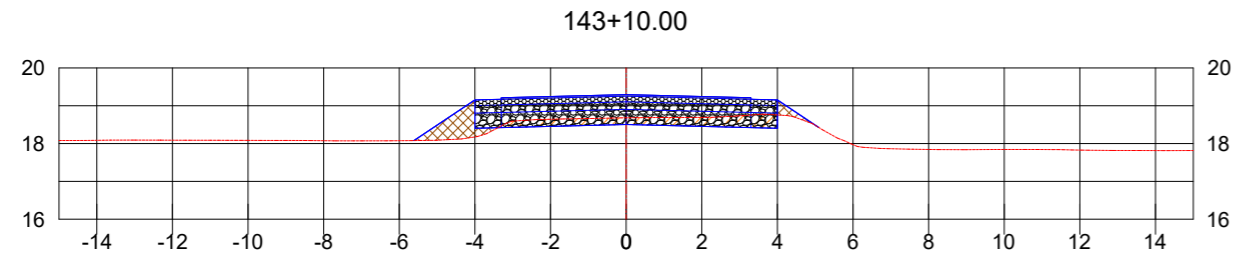
Prancha:
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R.M. MERCEDES MINATTO SCARDUELLI

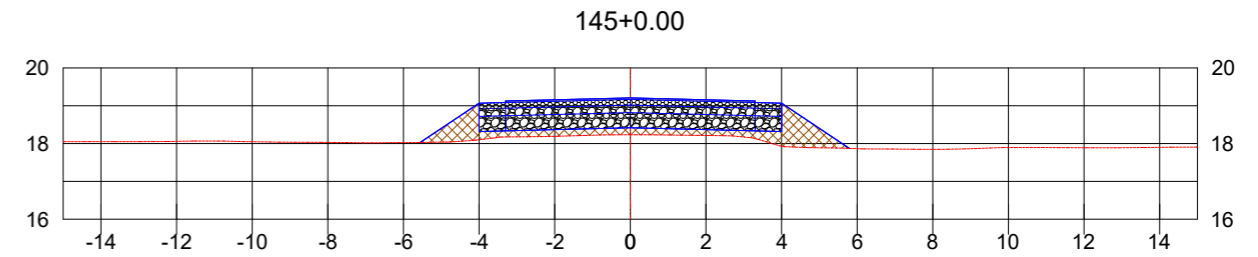
Conteúdo
SEÇÕES DE TERRAPLENAGEM

Local
R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC

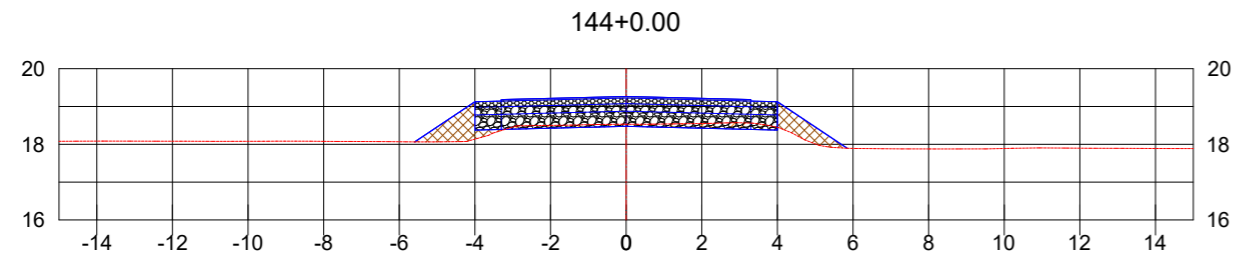




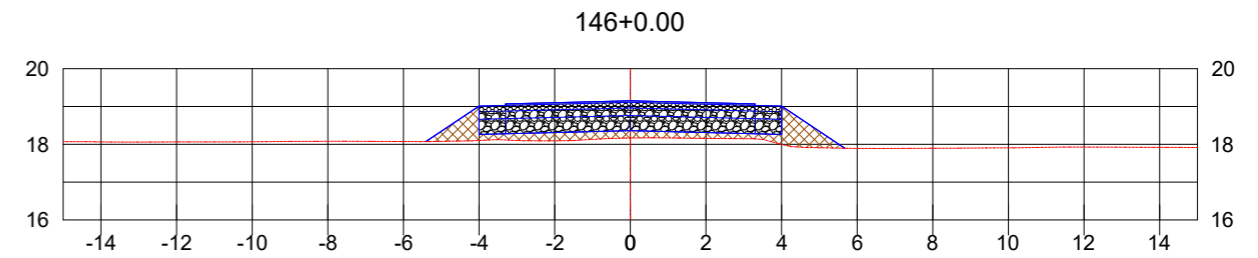
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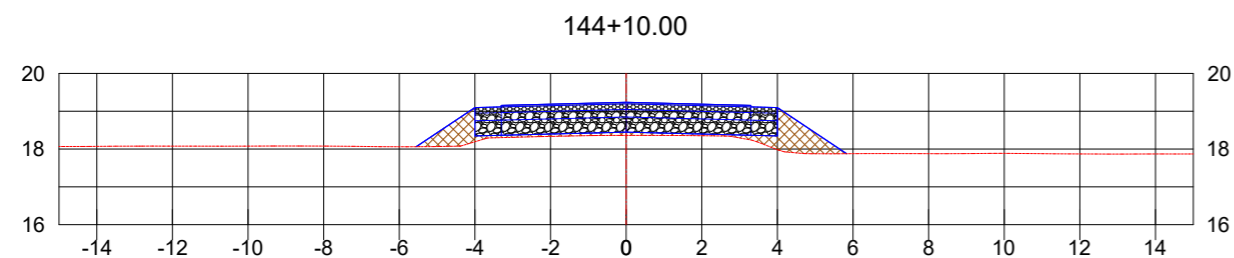
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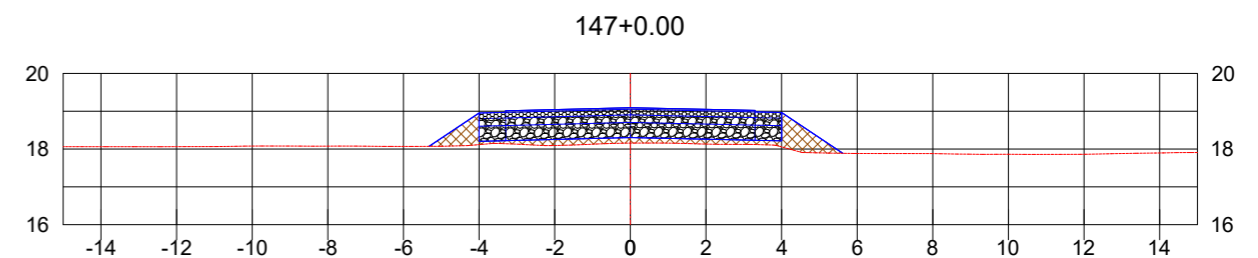
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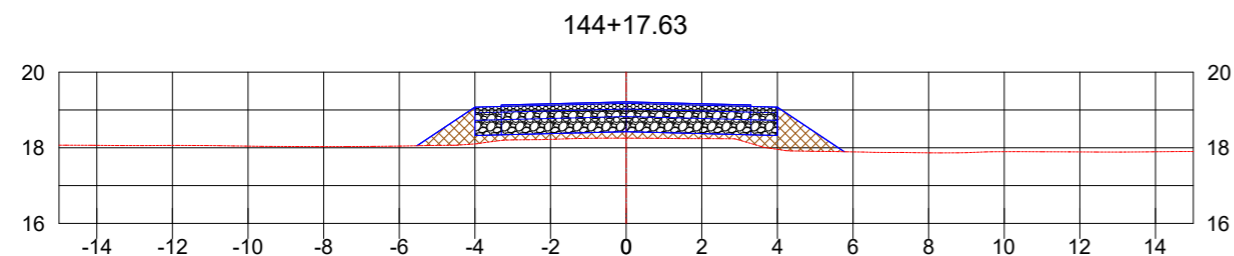
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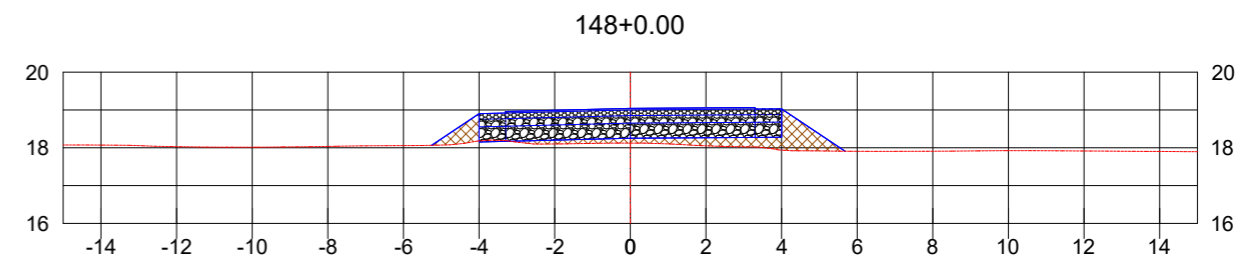
CT: 18.36
 CPP: 19.24
 CPT: 18.45



CT: 18.16
 CPP: 19.09
 CPT: 18.30



CT: 18.25
 CPP: 19.21
 CPT: 18.42



CT: 18.12
 CPP: 19.04
 CPT: 18.25



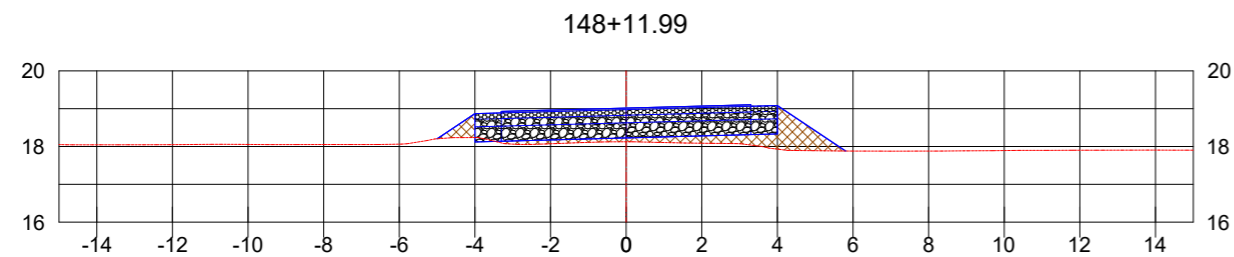
Autor do projeto:
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 ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
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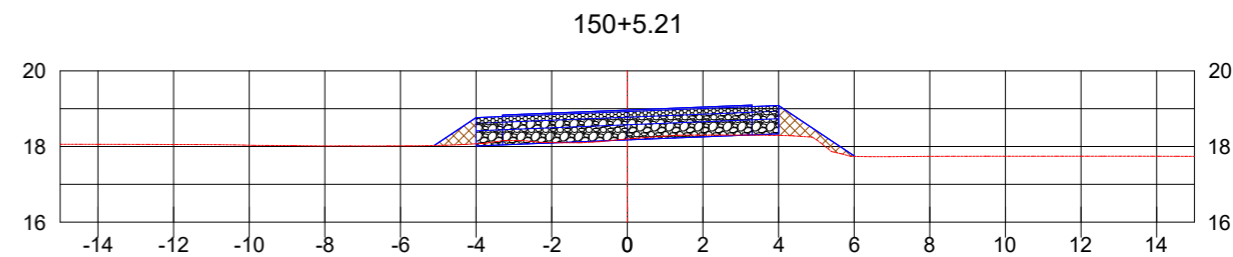
Obra
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Conteúdo
SEÇÕES DE TERRAPLENAGEM

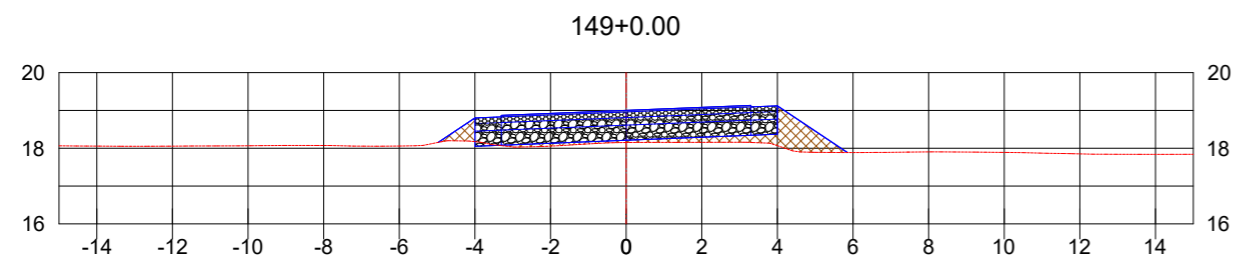
Local
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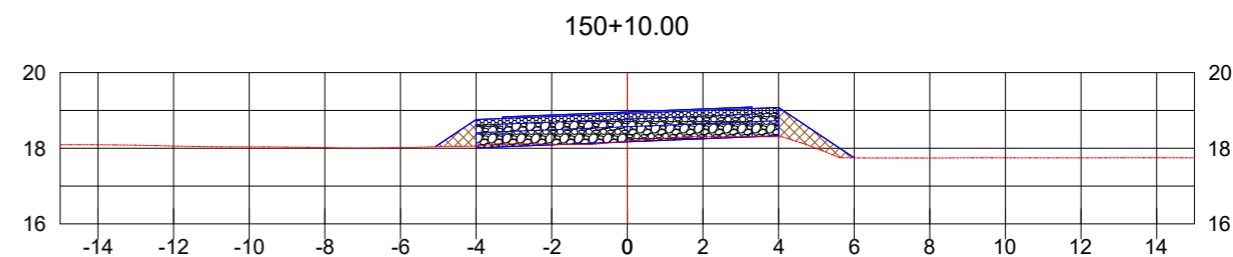
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 CPT: 18.23



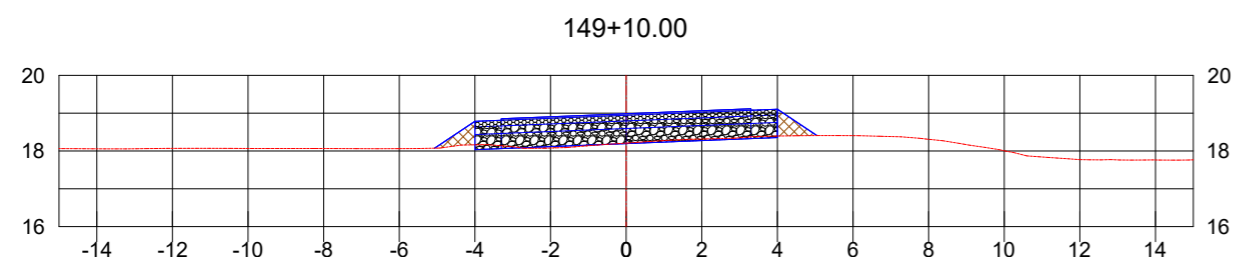
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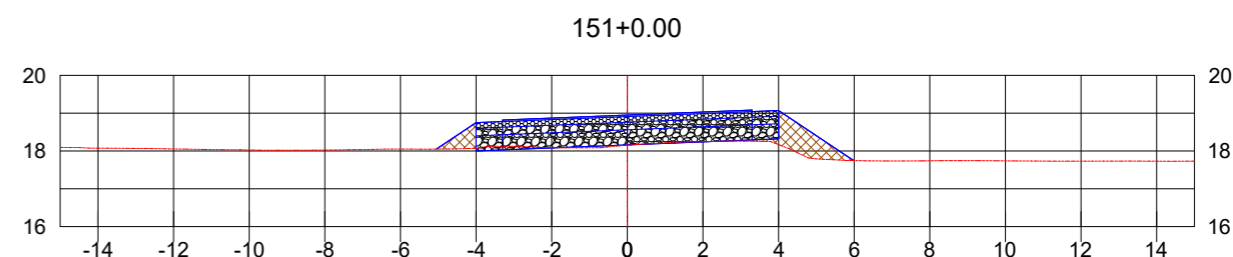
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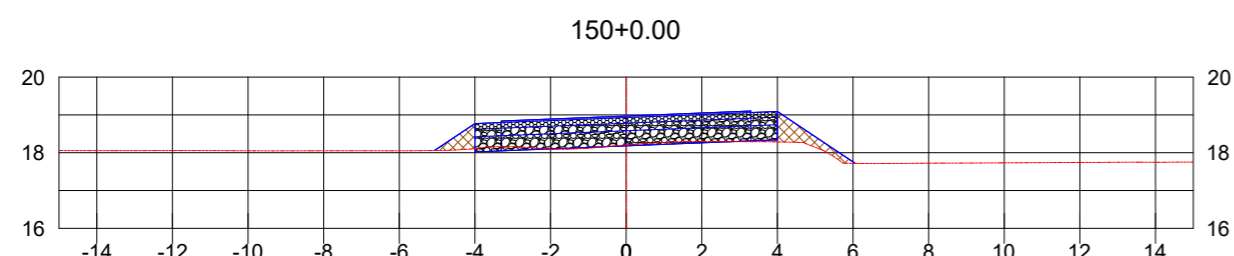
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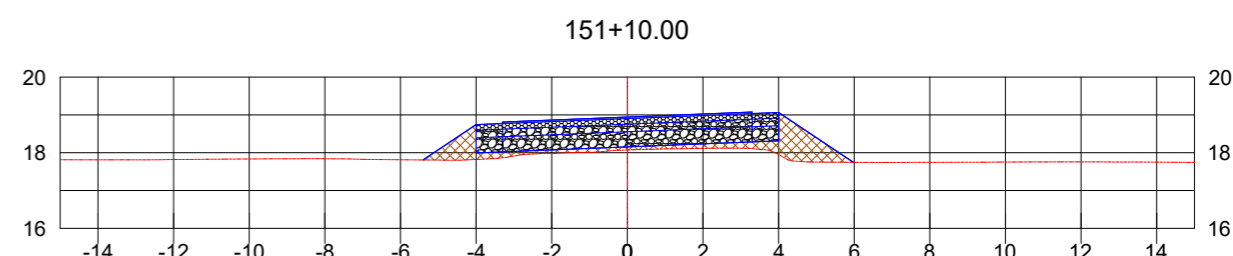
CT: 18.21
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CT: 18.15
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CT: 18.21
 CPP: 18.97
 CPT: 18.18



CT: 18.07
 CPP: 18.94
 CPT: 18.15



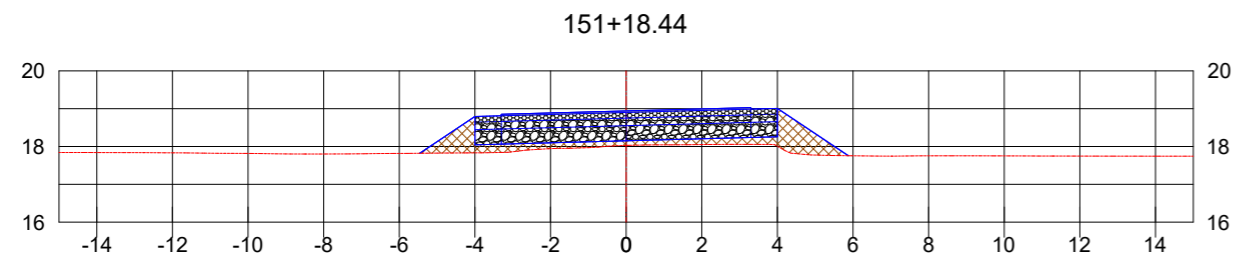
Autor do projeto:
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 ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
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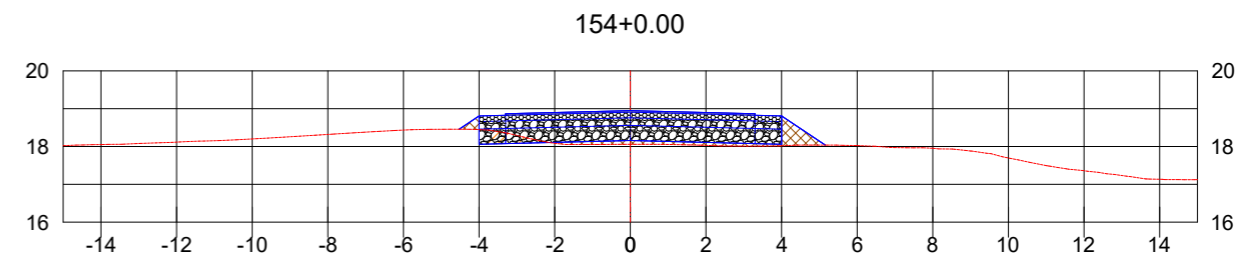
Obra
R.M. MERCEDES MINATTO SCARDUELLI

Conteúdo
SEÇÕES DE TERRAPLENAGEM

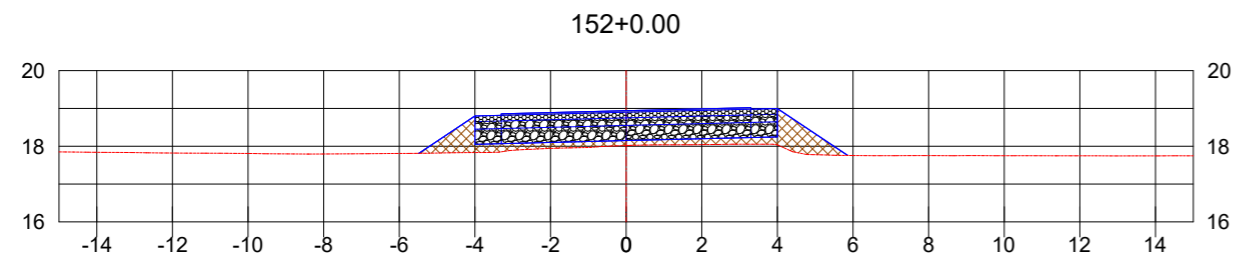
Local
 R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINHA/SC



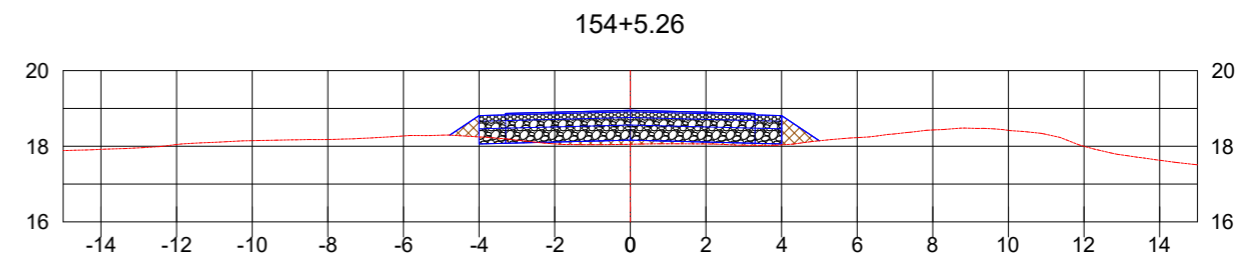
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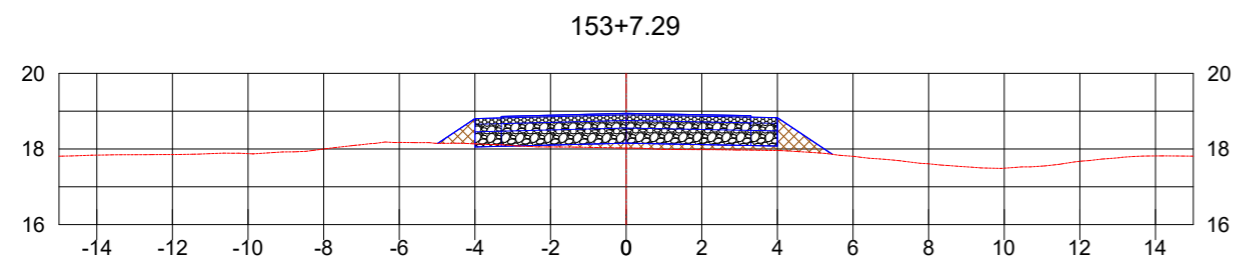
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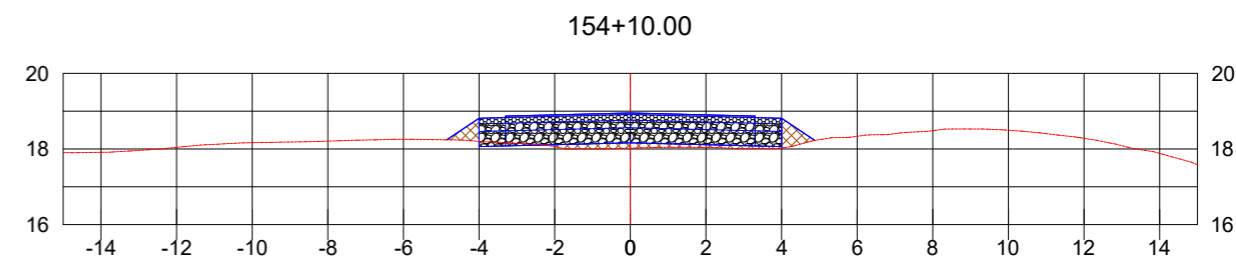
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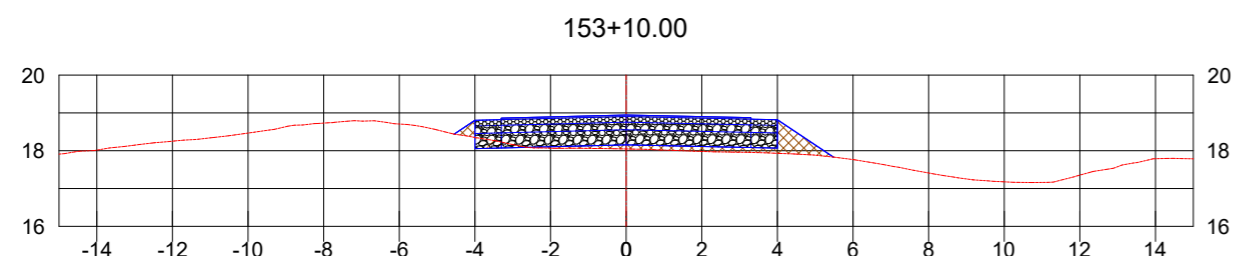
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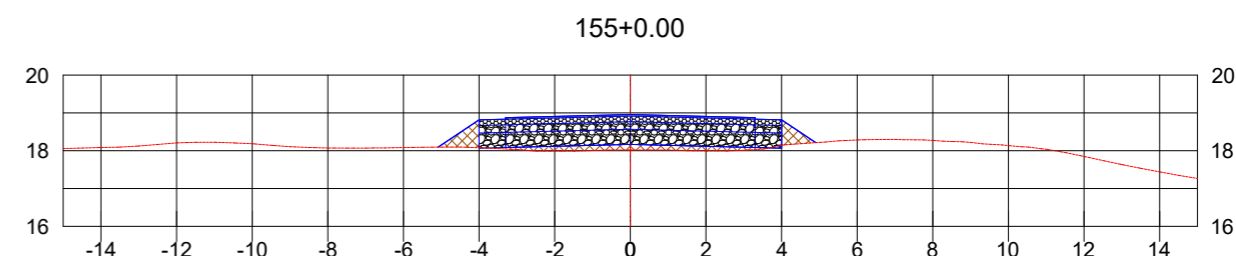
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CT: 18.02
 CPP: 18.95
 CPT: 18.16



CT: 18.05
 CPP: 18.94
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CT: 18.02
 CPP: 18.96
 CPT: 18.17



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 ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
 34 / 34

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R.M. MERCEDES MINATTO SCARDUELLI

Conteúdo
SEÇÕES DE TERRAPLENAGEM

Local
 R.M. MERCEDES M. SCARDUELLI - MORRO COMPRIDO - FORQUILHINA/SC