

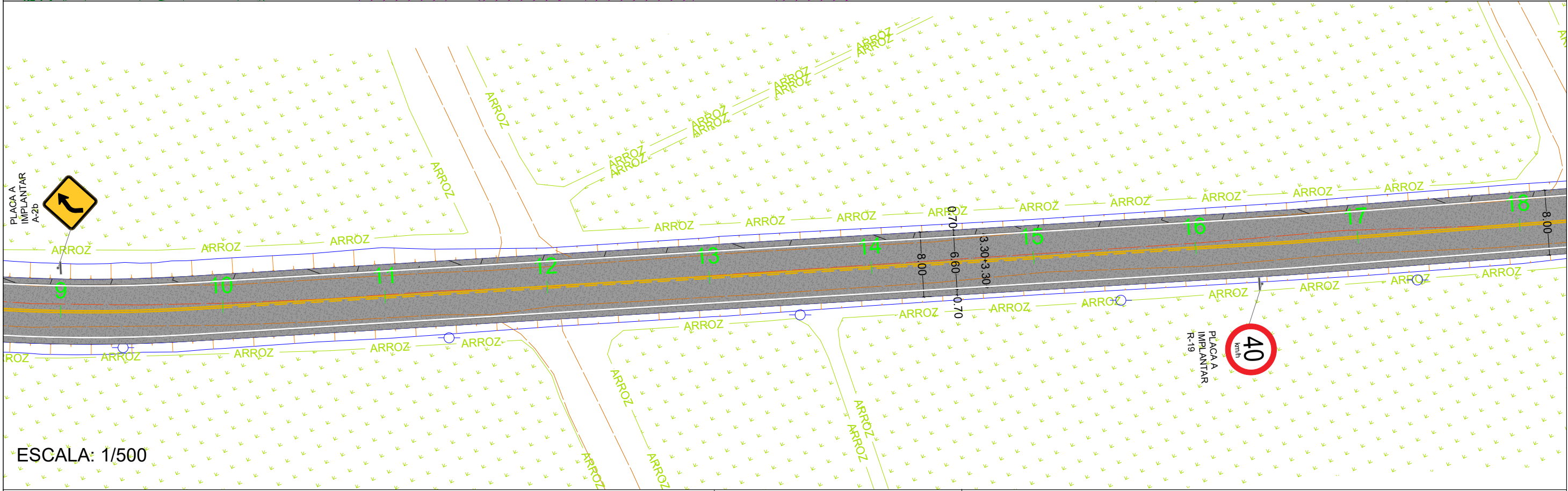
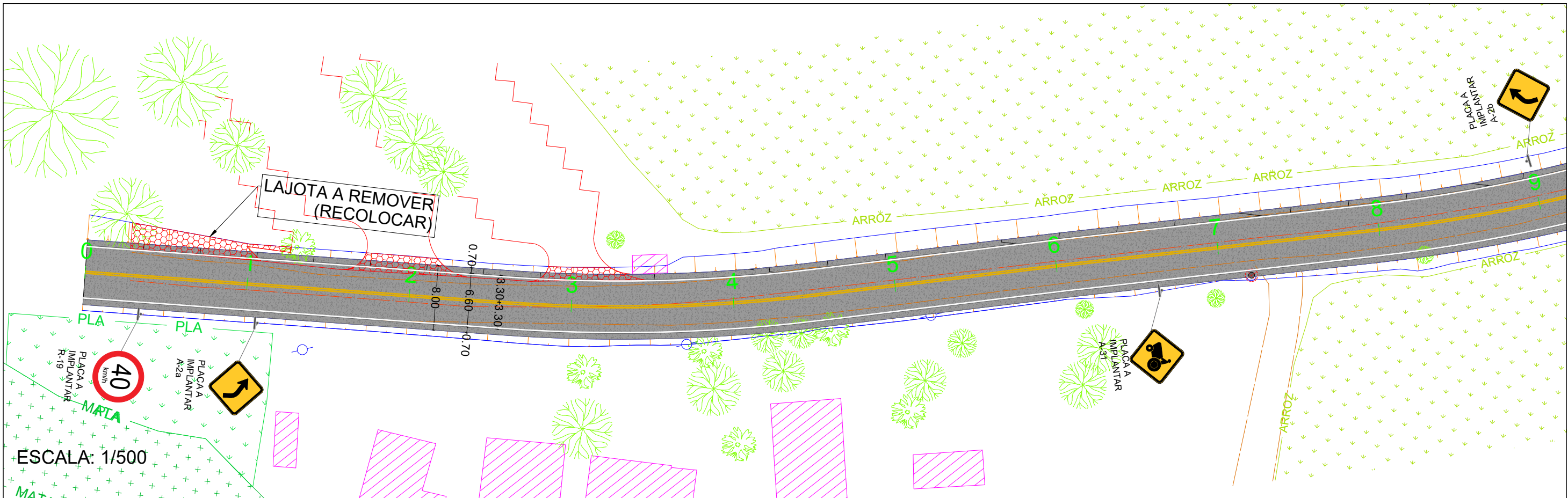
PROJETO DE INFRAESTRUTURA E SINALIZAÇÃO

-- Planta e Detalhes

BRUNO FRIGO
PASINI:07322
368940

Assinado de forma
digital por BRUNO FRIGO
PASINI:07322368940
Dados: 2026.04.22
09:43:36 -03'00'





IDEALIZE
ARQUITETURA E ENGENHARIA
CREA/SC 169873-0



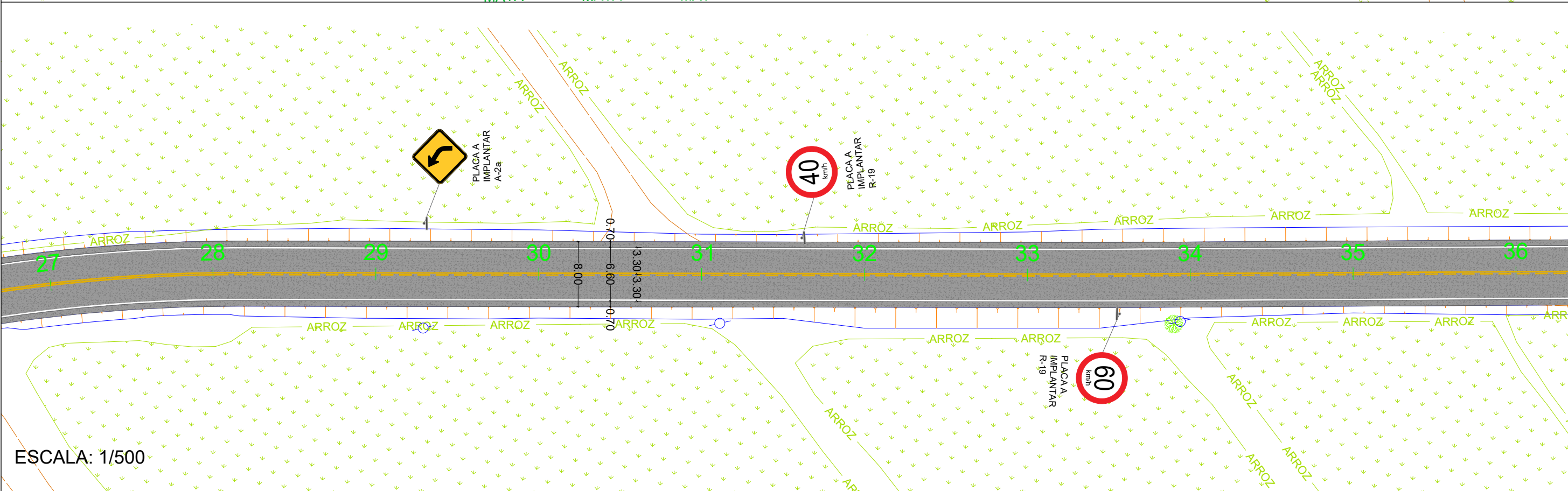
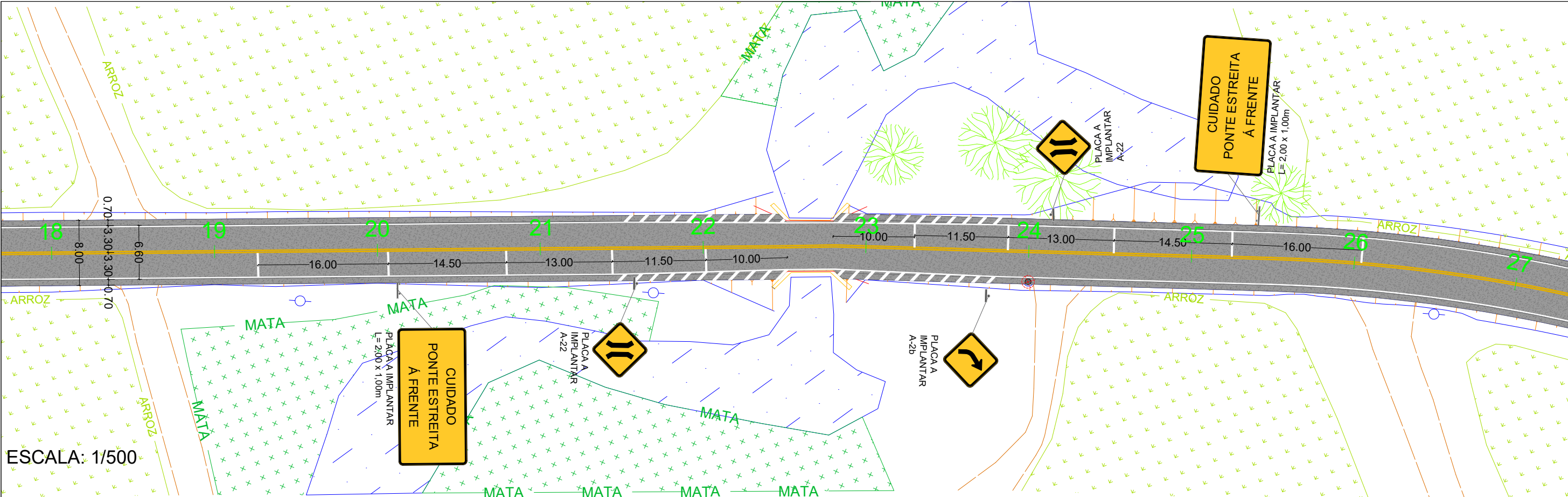
Autor do projeto:
BRUNO FRIGO PASINI
ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
01/08

Obra
R.M. JOÃO FRANCELINO MACHADO

Conteúdo
INFRAESTRUTURA E SINALIZAÇÃO

Local
R.M. JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINA/SC



IDEALIZE
ARQUITETURA E ENGENHARIA
CREA/SC 169873-0



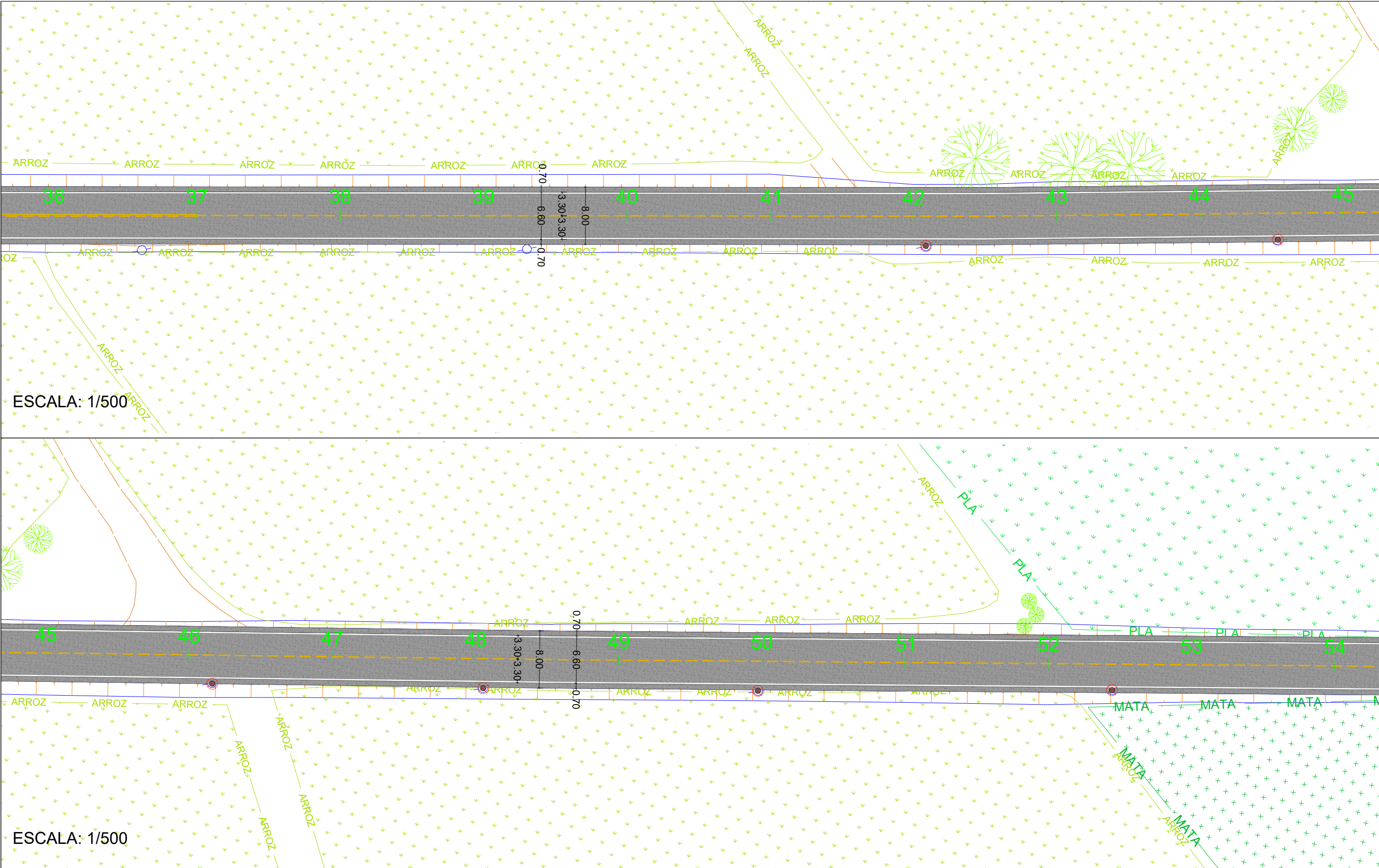
Autor do projeto:
BRUNO FRIGO PASINI
ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
02/08

Obra
R.M. JOÃO FRANCELINO MACHADO

Conteúdo
INFRAESTRUTURA E SINALIZAÇÃO

Local
R.M. JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC



IDEALIZE
ARQUITETURA E ENGENHARIA
CREA/SC 169873-0



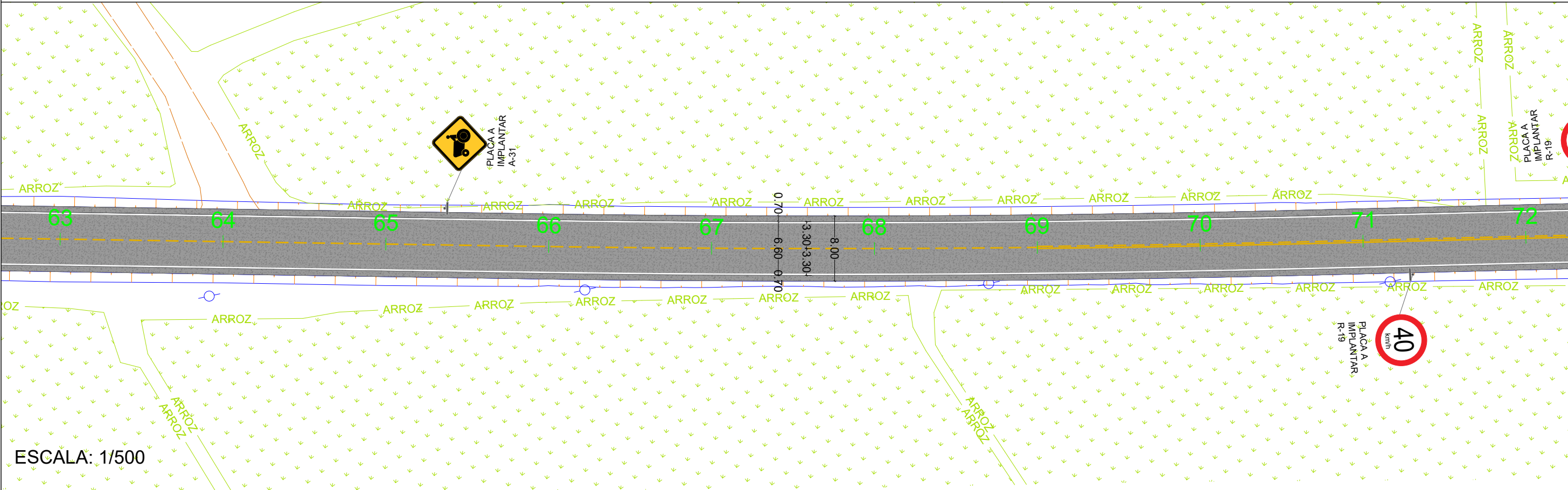
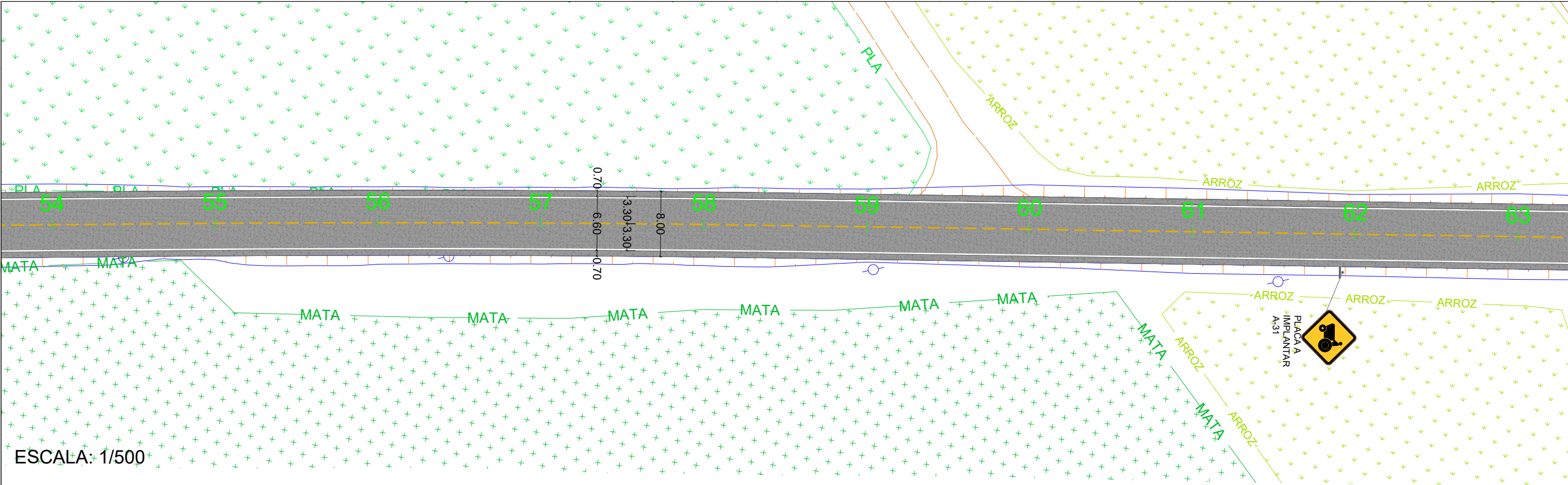
Autor do projeto:
BRUNO FRIGO PASINI
ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
03/08

Obra
R.M. JOÃO FRANCELINO MACHADO

Conteúdo
INFRAESTRUTURA E SINALIZAÇÃO

Local
R.M. JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC



IDEALIZE
ARQUITETURA E ENGENHARIA
CREA/SC 169873-0



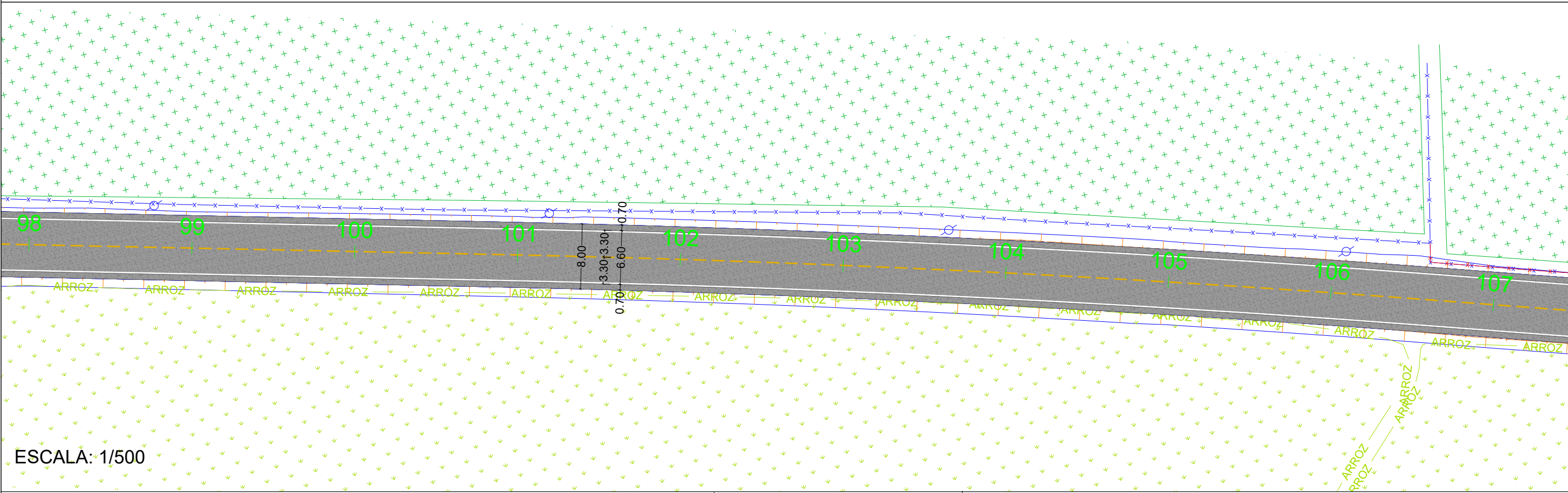
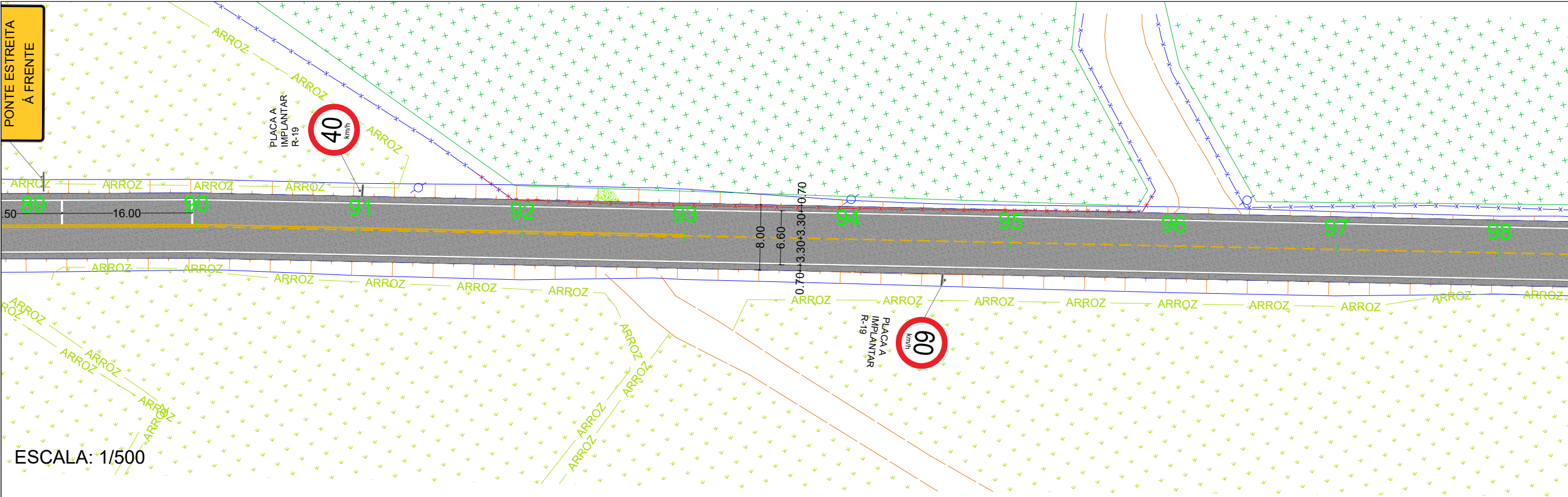
Autor do projeto:
BRUNO FRIGO PASINI
ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
04/08

Obra
R.M. JOÃO FRANCELINO MACHADO

Conteúdo
INFRAESTRUTURA E SINALIZAÇÃO

Local
R.M. JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC



IDEALIZE
ARQUITETURA E ENGENHARIA
CREA/SC 169873-0



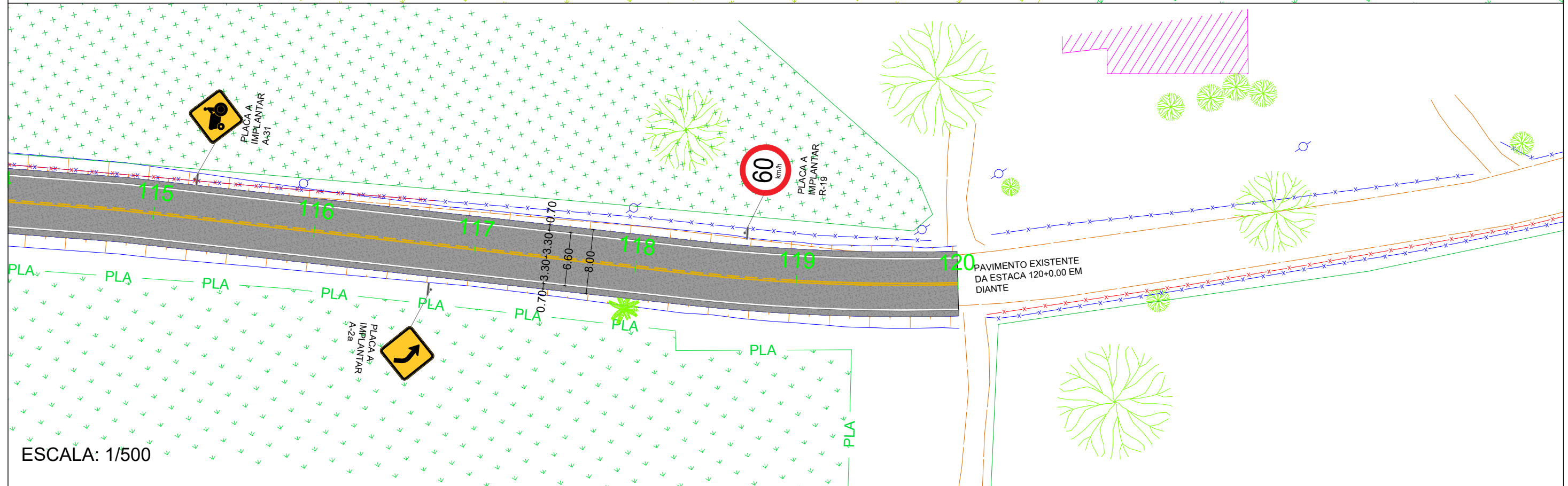
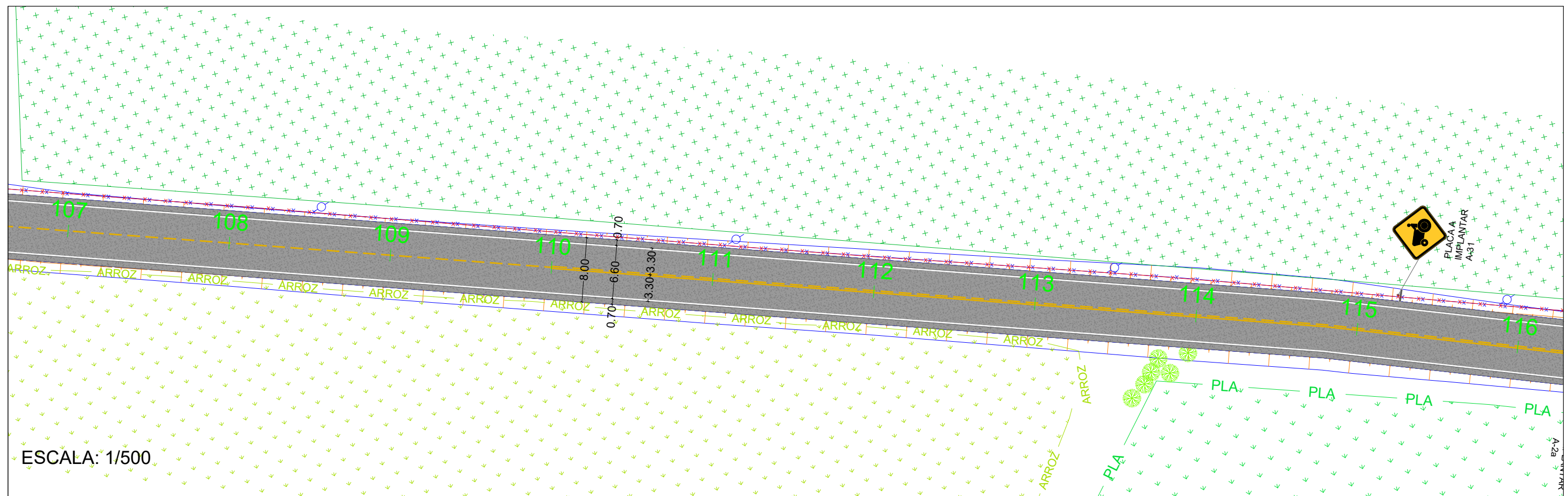
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BRUNO FRIGO PASINI
ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
06/08

Obra
R.M. JOÃO FRANCELINO MACHADO

Conteúdo
INFRAESTRUTURA E SINALIZAÇÃO

Local
R.M. JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC



IDEALIZE
ARQUITETURA E ENGENHARIA
CREA/SC 169873-0



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

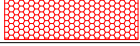
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07/08

Obra
R.M. JOÃO FRANCELINO MACHADO

Conteúdo
INFRAESTRUTURA E SINALIZAÇÃO

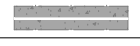
Local
R.M. JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC

TABELA DE QUANTIDADES

SÍMBOLO	DESCRIÇÃO	QUANTID.
	CBUQ – VIA CARROÇÁVEL (M²)	15.827,95
	CBUQ – ACOSTAMENTOS (M²)	3.325,28
	LAJOTAS A REMOVER (RECOLOCAR) (M²)	81,04

LEGENDA SINALIZAÇÃO

SÍMBOLO	DESCRIÇÃO	QUANTID.
---------	-----------	----------

	SINALIZAÇÃO HORIZONTAL	
	FAIXA BRANCA (M)	4.800,00
	FAIXA AMARELA (M)	2.928,33
	PINTURA GERAL BRANCA (M²)	32,05

SINALIZAÇÃO HORIZONTAL COM TACHAS

	TACHAS BIDIRECIONAIS AMARELAS (UNI.)	331
	TACHAS BIDIRECIONAIS BRANCAS (UNI.)	662

REMOÇÃO

	REMOÇÃO DE CERCA (M)	77,32
	POSTE A REMOVER (UNI.)	8,00

SINALIZAÇÃO VERTICAL DE REGULAMENTAÇÃO

	R–19 Velocidade máxima permitida	5
	R–19 Velocidade máxima permitida	4

SINALIZAÇÃO VERTICAL DE ADVERTÊNCIA

	A–2a Curva à esquerda	4
	A–2b Curva à direita	3
	A–22 Ponte Estreita	4
	A–31 Circulação de máquinas agrícolas ou tratores	4
	L:2,00mX1,00m Placa de advertência	4

R.M. JOÃO FRANCELINO MACHADO - ESTACA 0+0,00 A 120+0,00									
Pintura Amarela Eixo (12cm esp.)									
Tipo		Estaca inicial			Estaca final			Total Extensão (m)	Comp. pintura Padrão (m)
Lado esquerdo	Lado Direito								
2 contínuas		0	+	0,00	10	+	0,00	200,00	400,00
contínua / Tracejada 4-2-4		10	+	0,00	16	+	0,00	120,00	200,00
2 contínuas		16	+	0,00	28	+	0,00	240,00	480,00
contínua / Tracejada 4-2-4		28	+	0,00	37	+	0,00	180,00	300,00
Tracejada 4-8-4		37	+	0,00	69	+	0,00	640,00	213,33
contínua / Tracejada 4-2-4		69	+	0,00	78	+	0,00	180,00	300,00
2 contínuas		78	+	0,00	90	+	0,00	240,00	480,00
contínua / Tracejada 4-2-4		90	+	0,00	93	+	0,00	60,00	100,00
Tracejada 4-8-4		93	+	0,00	110	+	0,00	340,00	113,33
contínua / Tracejada 4-2-4		110		0,00	119		1,00	181,00	301,67
2 contínuas		119	+	0,00	120	+	0,00	20,00	40,00
Total								1,00	2.928,33
COMPRIMENTO TOTAL DE PINTURA [M]								2.928,33	

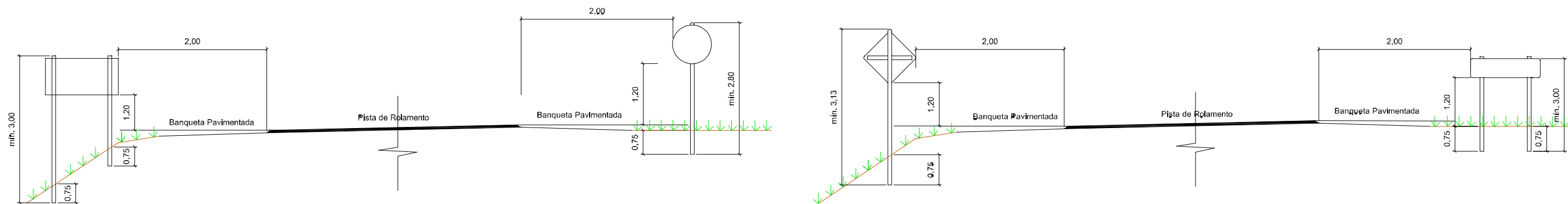
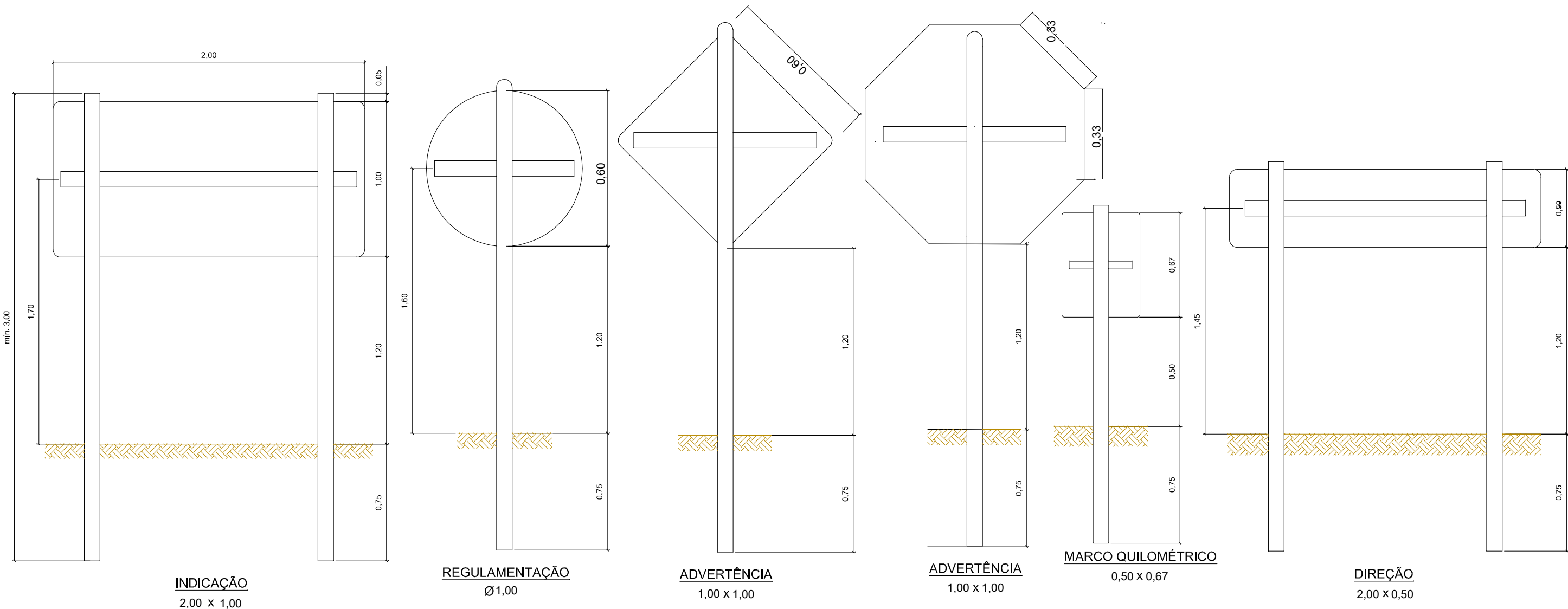
POSIÇÕES DA SINALIZAÇÃO VERTICAL			
R.M. JOÃO FRANCELINO MACHADO - ESTACA 0+0,00 A 120+0,00			
LADO ESQUERDO		LADO DIREITO	
EST	TIPO	EST	TIPO
9+0,00	A-2b	0+10,00	R-19 - 40
24+10,00	A-22	1+0,00	A-2a
25+0,00	PONTE ESTREITA	6+10,00	A-31
29+0,00	A-2a	16+10,00	R-19 - 40
31+0,00	R-19 - 40	20+0,00	PONTE ESTREITA
65+10,00	A-31	21+10,00	A-22
72+10,00	R-19 - 60	24+0,00	A-2b
82+10,00	A-2a	33+10,00	R-19 - 60
87+10,00	A-22	62+0,00	A-31
89+00,00	PONTE ESTREITA	71+0,00	R-19 - 40
91+0,00	R-19 - 40	76+10,00	A-2b
115+0,00	A-31	83+10,00	PONTE ESTREITA
118+10,00	R-19 - 60	84+10,00	A-22
		94+10,00	R-19 - 60
		116+10,00	A-2a

R.M. JOÃO FRANCELINO MACHADO - ESTACA 0+0,00 A 120+0,00									
Pintura Branca Bordo (12cm esp.)									
Tipo		Estaca inicial			Estaca final			Total Extensão (m)	Comp. pintura Padrão (m)
Lado esquerdo	Lado Direito								
2 contínuas		0	+	0,00	120	+	0,00	2.400,00	4.800,00
Total								2.400,00	4.800,00
COMPRIMENTO TOTAL DE PINTURA [M]								4.800,00	

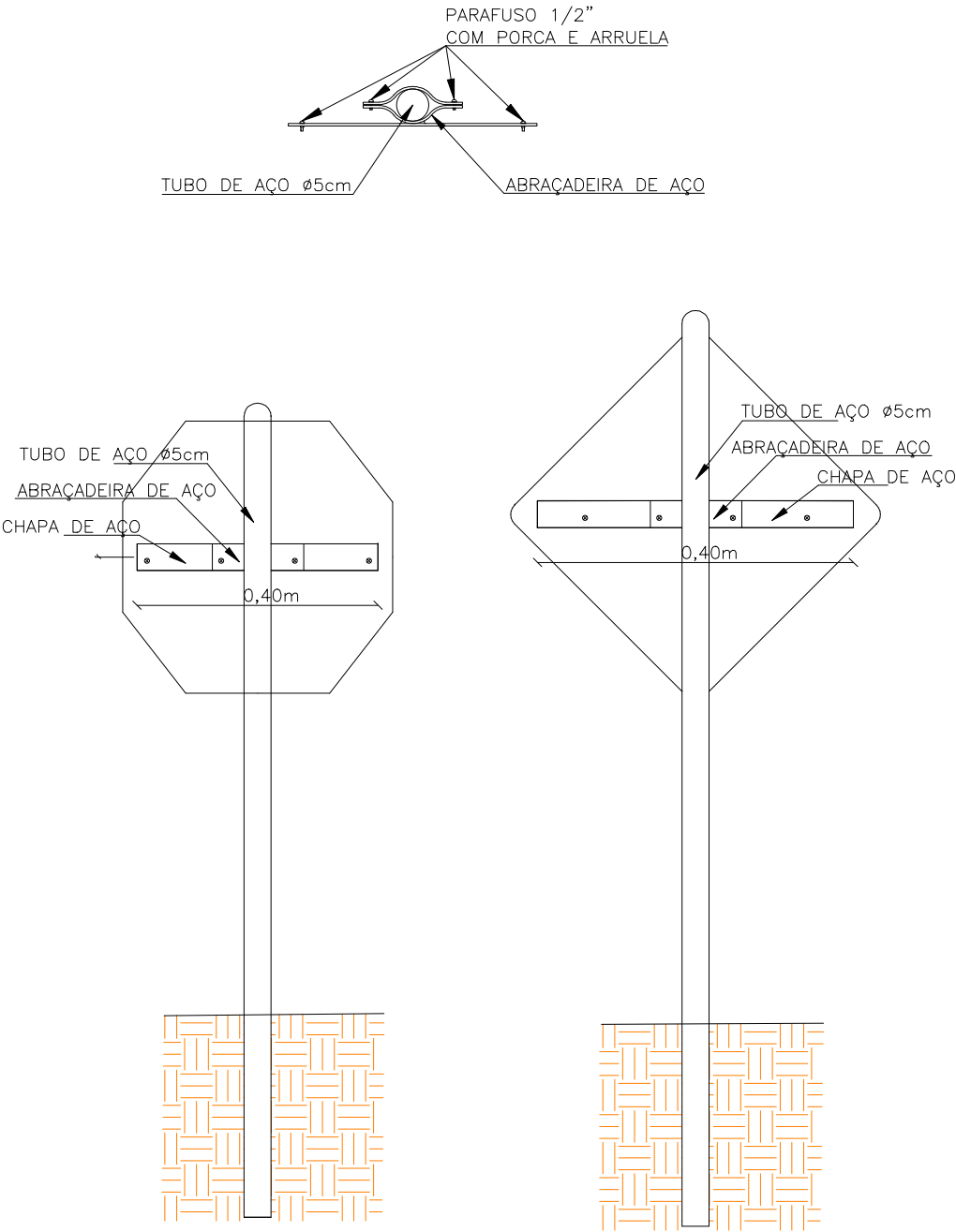
R.M. JOÃO FRANCELINO MACHADO - ESTACA 0+0,00 A 120+0,00											
Tacha (9,5x8cm) Eixo e Bordo											
LOCAL	CADENCIA	ESTACA INICIAL			ESTACA FINAL			DIST.	UN. PADRÃO	UN. NÃO PADRÃO	TOTAL
B.LE - EX - B.LD	6 x 6	0	+	0,00	10	+	0,00	200	34		34
B.LE - EX - B.LD	8 x 8	10	+	0,00	16	+	0,00	120	15		15
B.LE - EX - B.LD	6 x 6	16	+	0,00	28	+	0,00	240	40		40
B.LE - EX - B.LD	8 x 8	28	+	0,00	78	+	0,00	1000	125		125
B.LE - EX - B.LD	6 x 6	78	+	0,00	90	+	0,00	240	40		40
B.LE - EX - B.LD	8 x 8	90	+	0,00	119	+	0,00	580	73		73
B.LE - EX - B.LD	6 x 6	119	+	0,00	120	+	0,00	20	4		4
NUMERO DE FAIXA (Qty.)		BORDO LE	1	EIXO	1	BORDO LD	1	TOTAL 1 FAIXA		331	
TACHAS BRANCAS BORDO (UN)				662	TACHAS AMARELA EIXO (UN)			331	TOTAL (Unidades)		993

				Autor do projeto: BRUNO FRIGO PASINI ENGENHEIRO CIVIL - CREA/SC 137.007-9		Obra R.M. JOÃO FRANCELINO MACHADO	
				Prancha: 01/01		Conteúdo NOTA DE SERVIÇO DE SINALIZAÇÃO	
						Local R.M. JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC	

DETALHE DAS ALTURAS E POSICIONAMENTO DE PLACAS
FIXAÇÃO EM SUPORTE METÁLICO



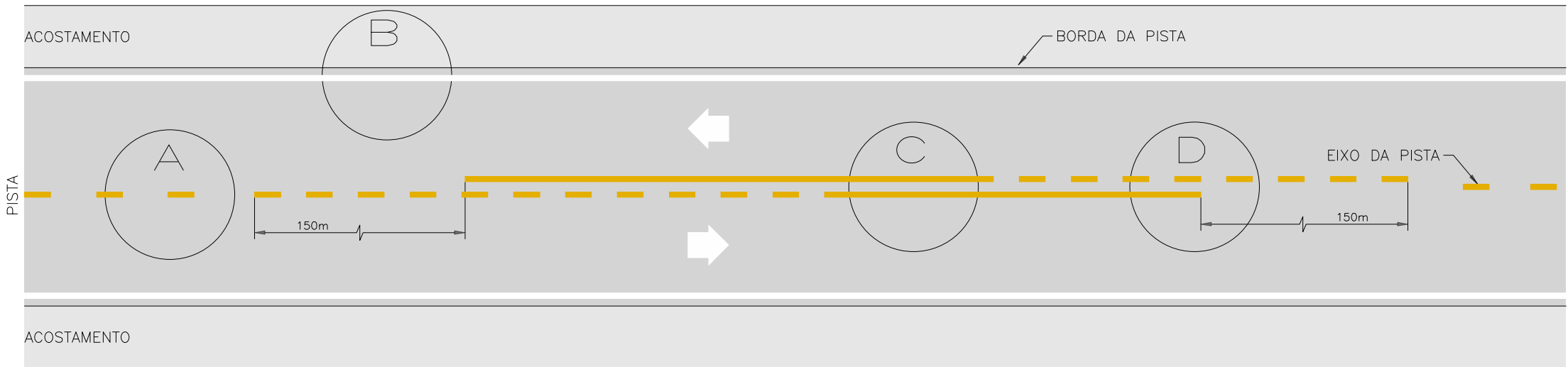
DETALHE DE FIXAÇÃO DAS PLACAS



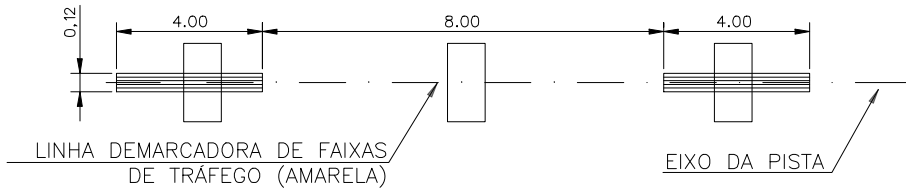
SINALIZAÇÃO VERTICAL
PLACAS DE REGULAMENTAÇÃO,
ADVERTÊNCIA E INDICAÇÃO

MODELO DAS PLACAS	CÓDIGO	PINTURAS	DIMEN.
	R-19	FUNDO BRANCO LETRAS PRETAS ORLA VERMELHA	D=0,60
	A-2a	FUNDO AMARELO ORLA PRETA SIMBOLO PRETO	L=0,60
	A-2b	FUNDO AMARELO ORLA PRETA SIMBOLO PRETO	L=0,60
	A-22	FUNDO AMARELO ORLA PRETA SIMBOLO PRETO	L=0,60
	A-31	FUNDO AMARELO ORLA PRETA SIMBOLO PRETO	L=0,60
		FUNDO AMARELO ORLA PRETA SIMBOLO PRETO	L=2,00X1,00

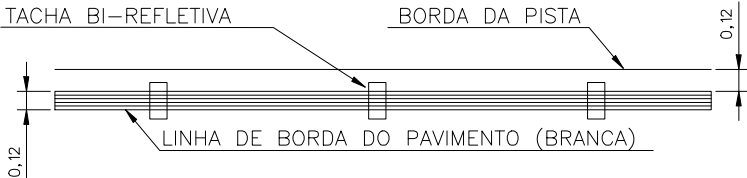
PISTA SIMPLES – DOIS SENTIDOS DE TRÁFEGO



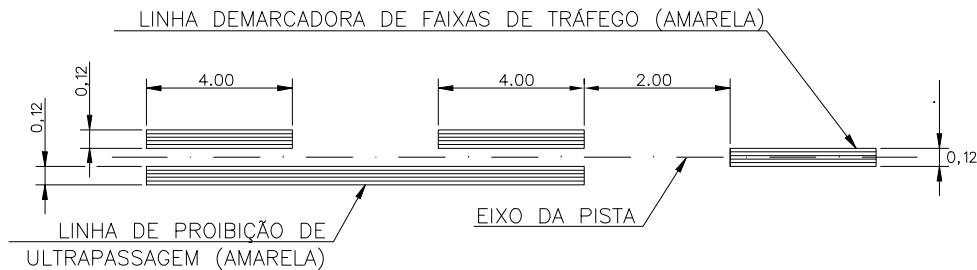
DETALHE A



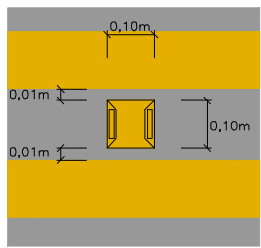
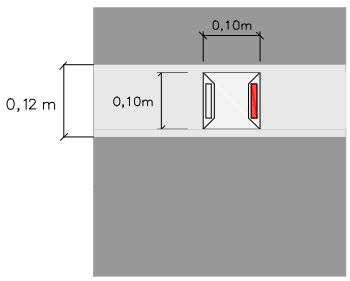
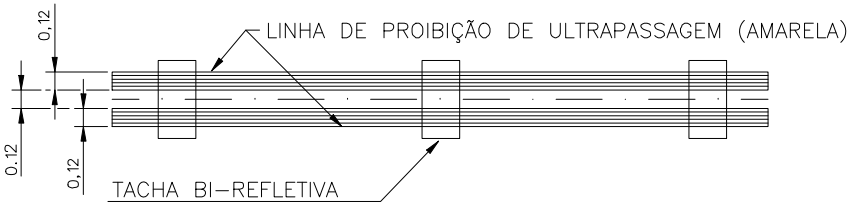
DETALHE B



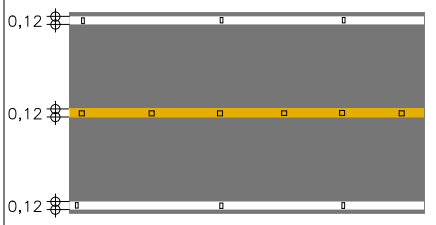
DETALHE D



DETALHE C

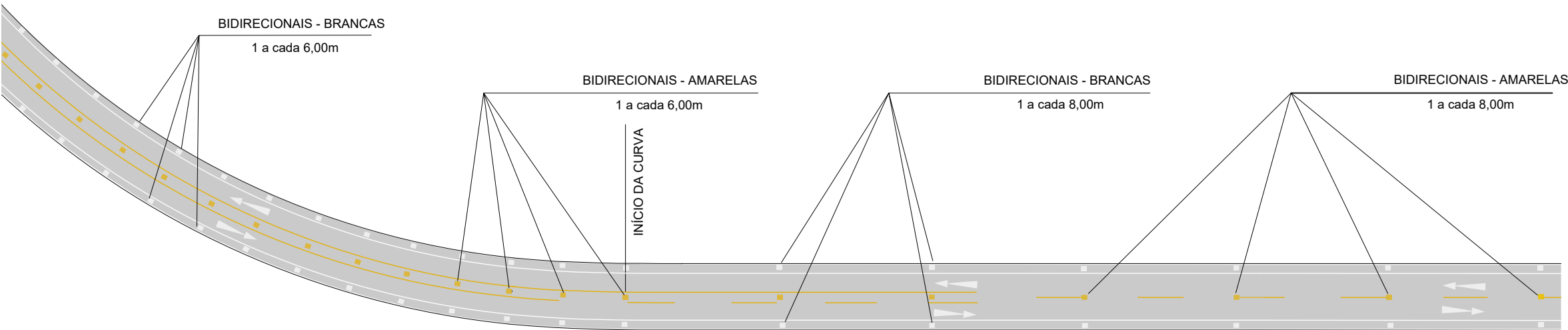


DETALHE DA FAIXA CONTÍNUA

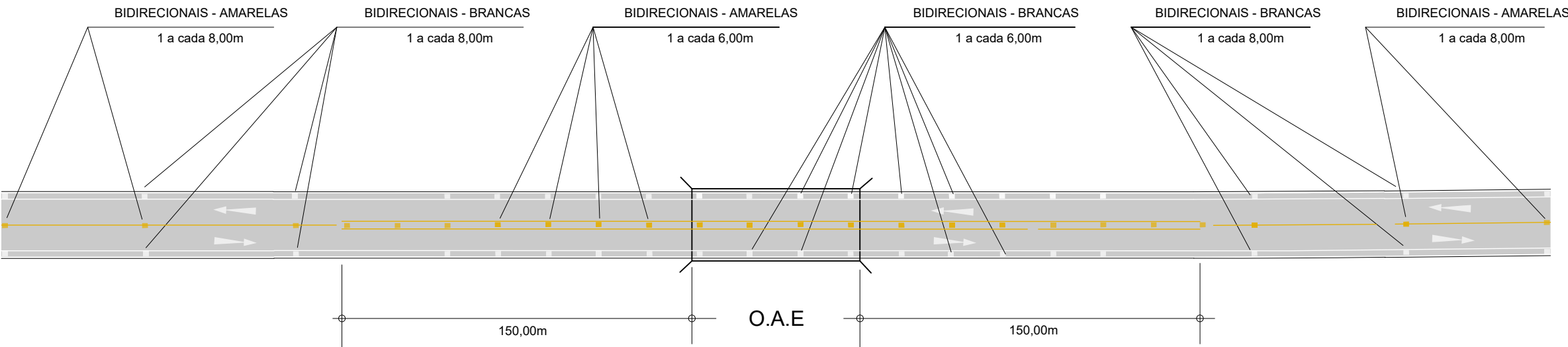


DISPOSIÇÃO E CORES DAS TACHAS

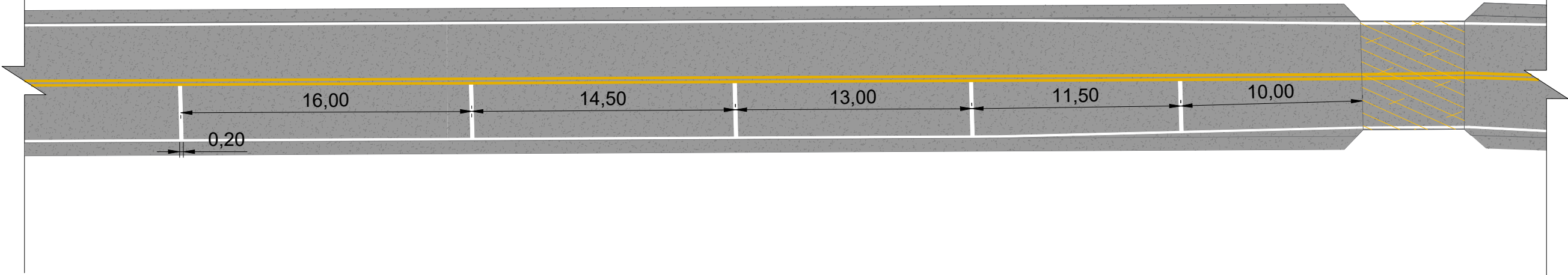
1) EM CURVAS E RETAS



2) EM OBRAS DE ARTE ESPECIAL



LINHAS DE ESTÍMULO A REDUÇÃO DE VELOCIDADE (LVR)



i	Ei (m)	Ei (m) ADOTADO	DISTÂNCIA ENTRE LINHAS (m)
0	0,00	0,00	-
1	15,93	16,00	16,00
2	30,38	30,50	14,50
3	43,35	43,50	13,00
4	54,84	55,00	11,50
5	64,85	65,00	10,00
6	73,38	73,50	8,50
7	80,43	80,50	7,00
8	86,00	86,00	5,50
9	90,09	90,00	4,00

PROJETO GEOMÉTRICO

-- Planta e Perfil Longitudinal

-- Tabelas de Volumes e Elementos Geométricos

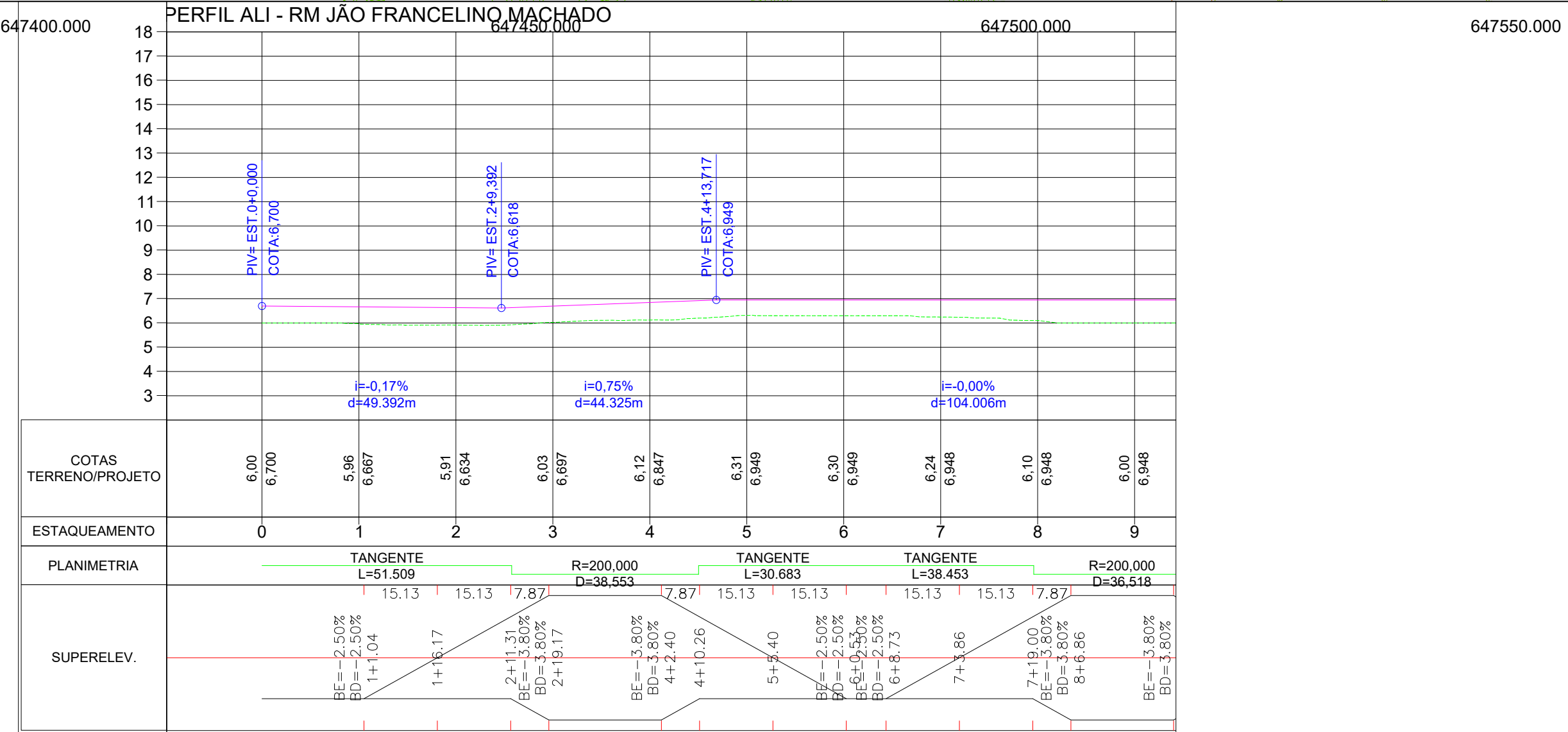
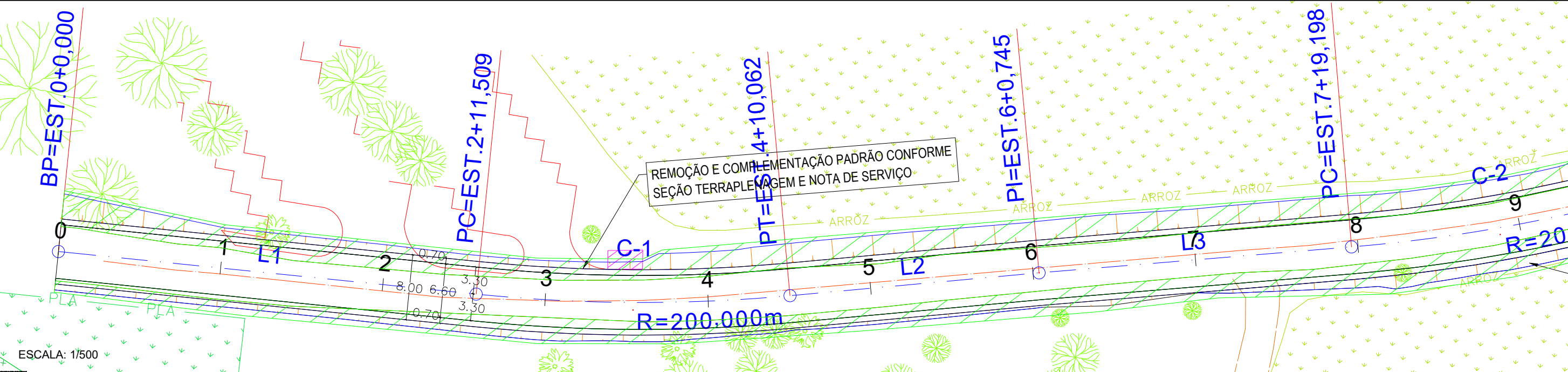
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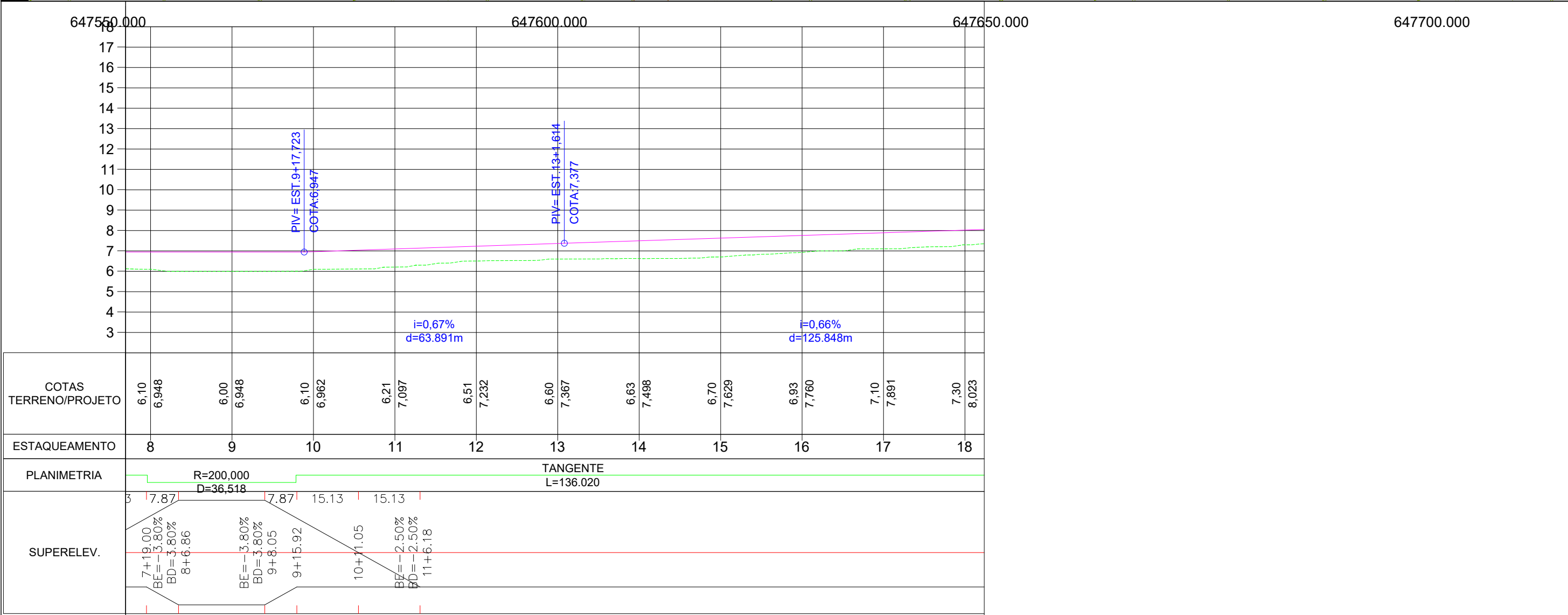
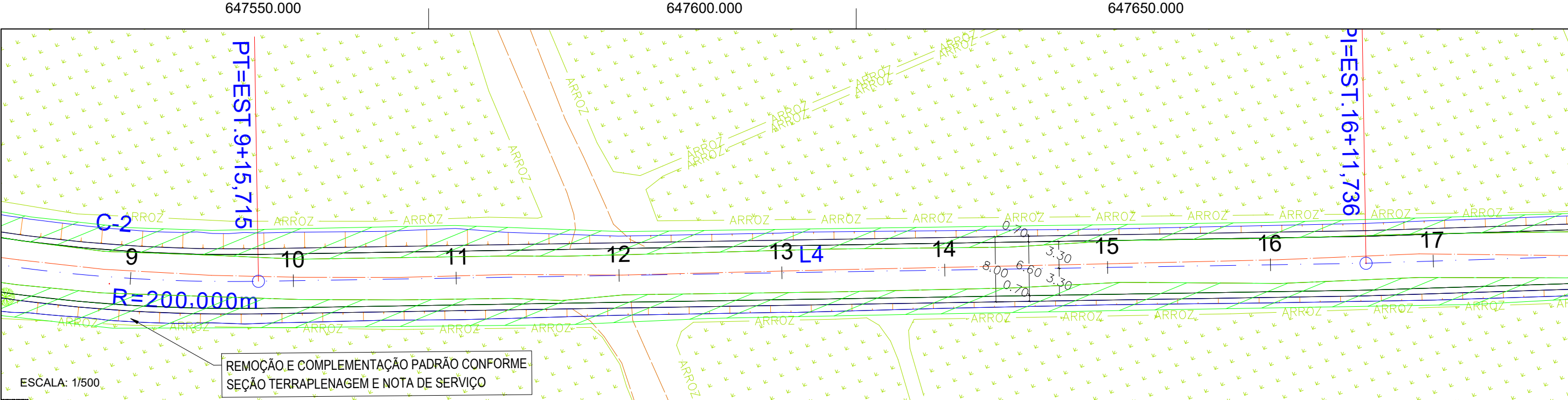
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Autor do projeto:
BRUNO FRIGO PASINI
ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
02/15

Obra
RM JOÃO FRANCELINO MACHADO

Conteúdo
PROJETO GEOMÉTRICO

Local
RM JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC

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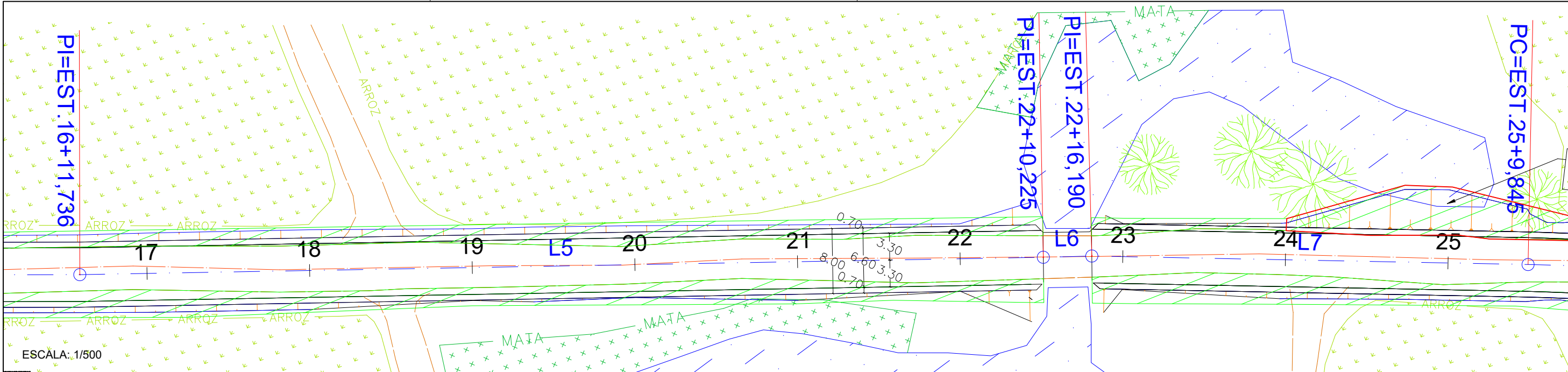
A3 (297mm X 420mm)

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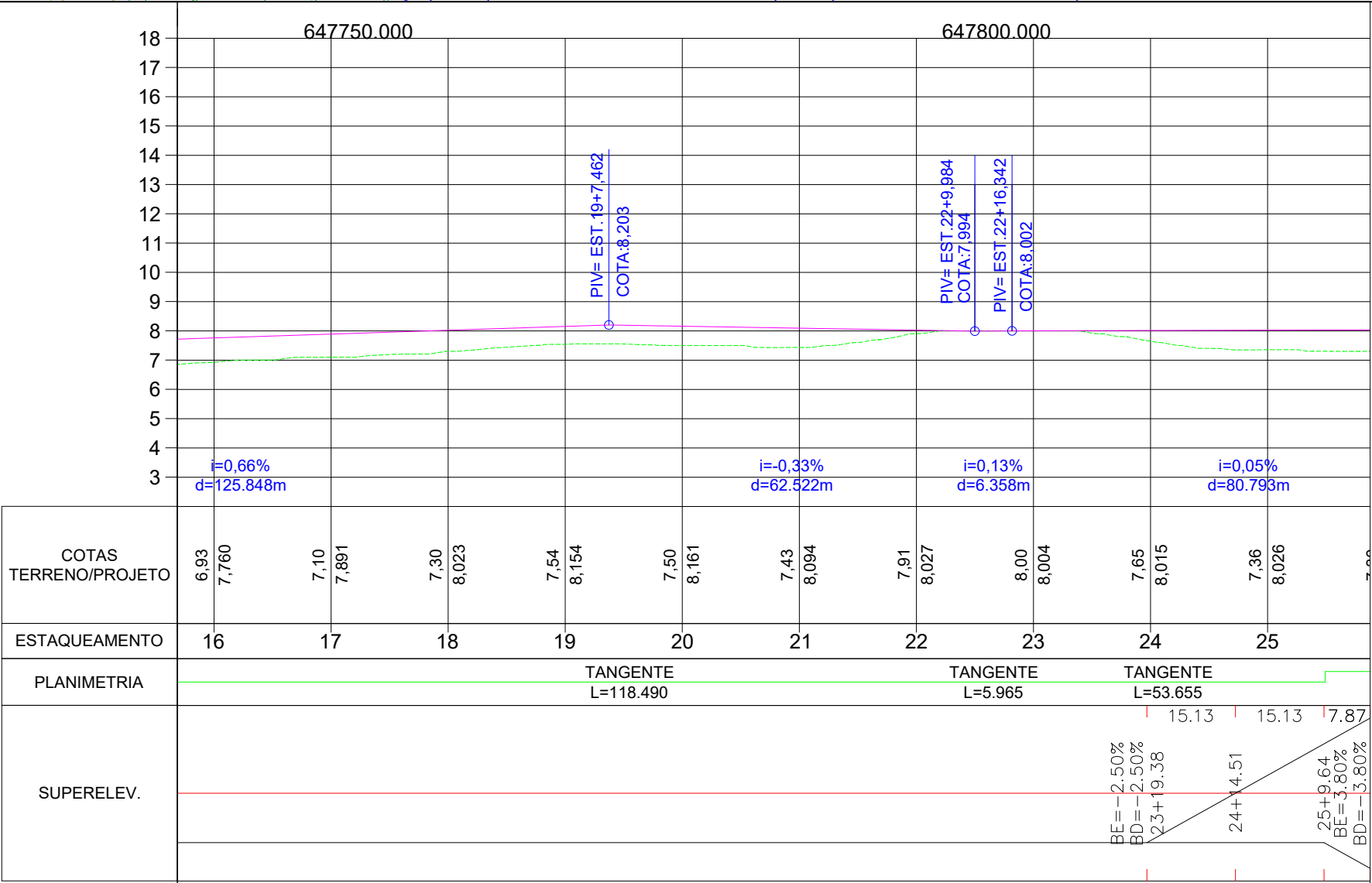
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Autor do projeto:
BRUNO FRIGO PASINI
ENGENHEIRO CIVIL - CREA/SC 137.007-9

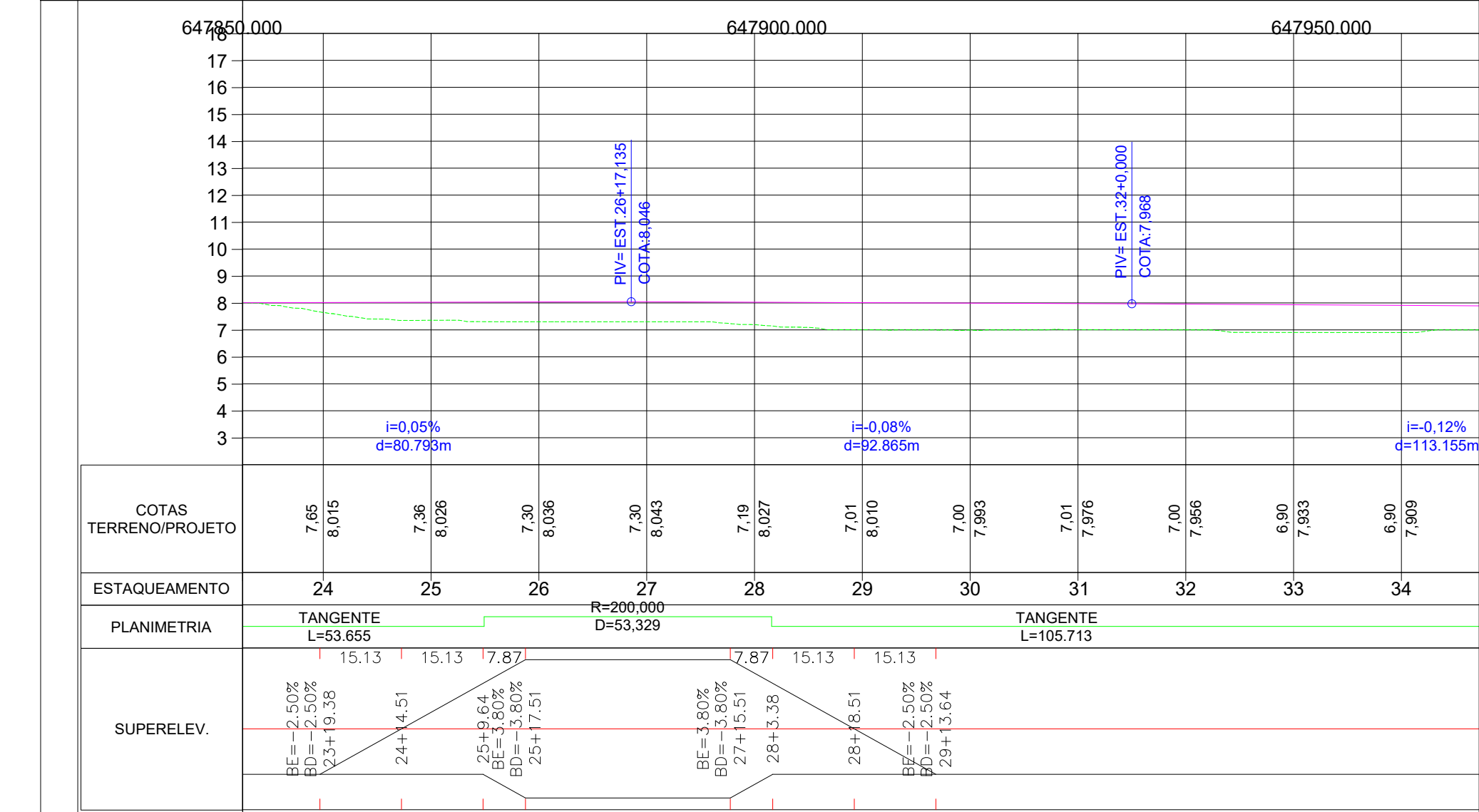
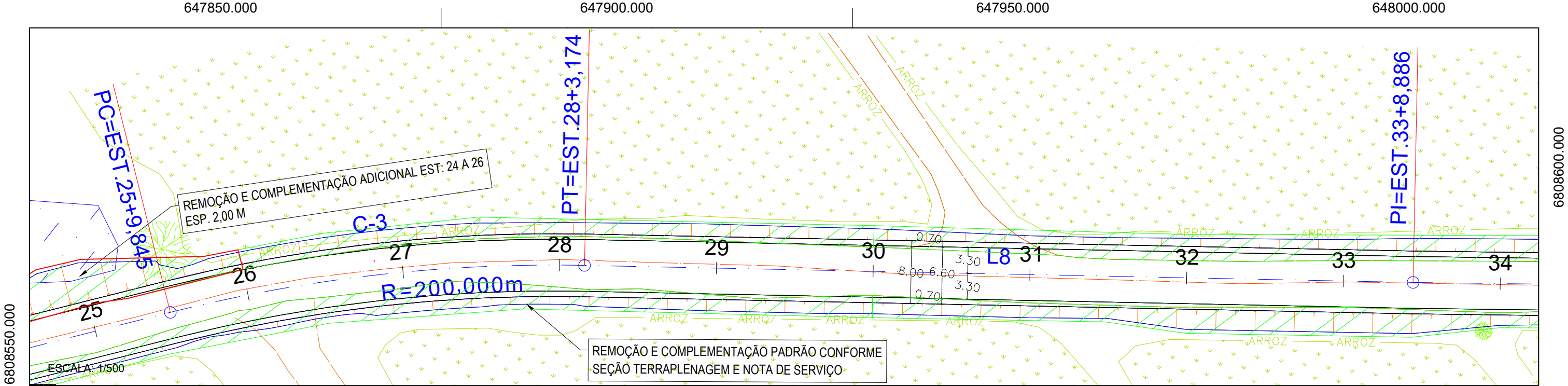
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03/15

Obra
RM JOÃO FRANCELINO MACHADO

Conteúdo
PROJETO GEOMÉTRICO

Local
RM JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC

A3 (297mm X 420mm)



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

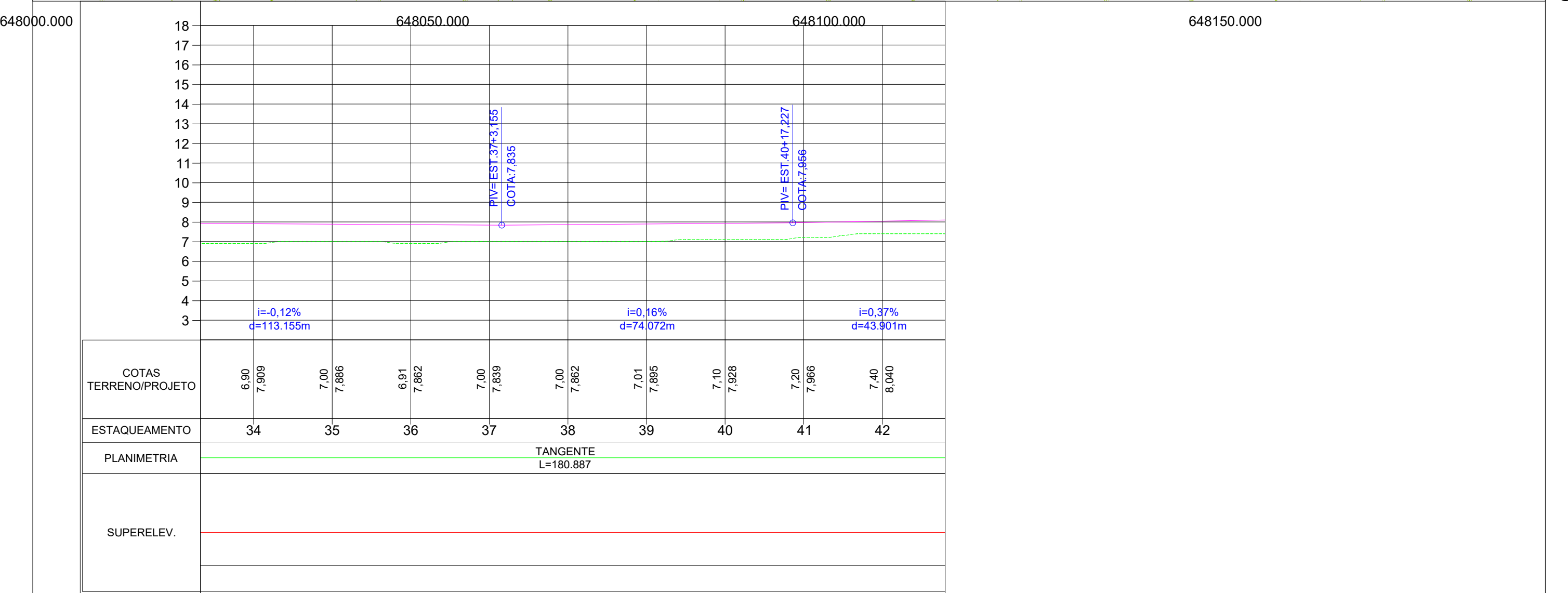
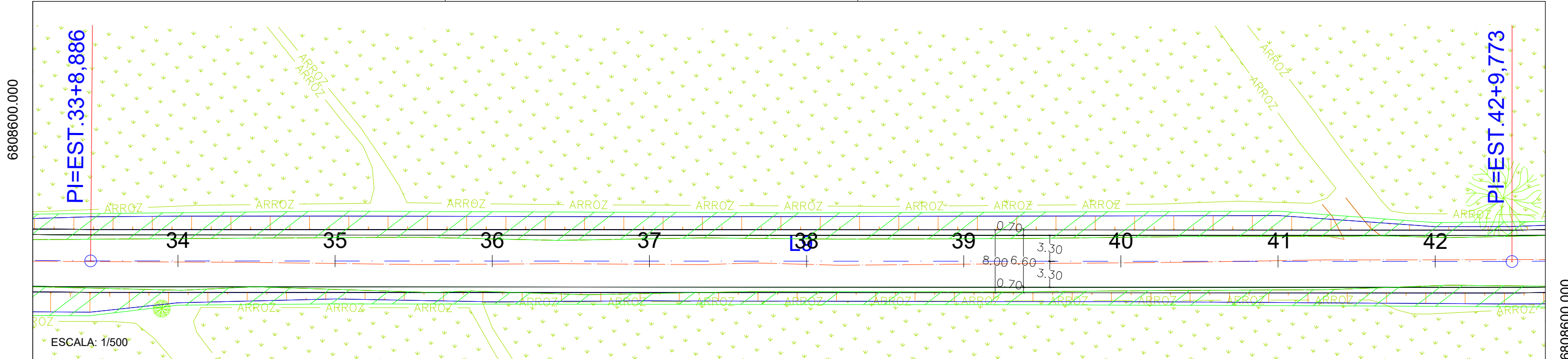
Prancha:
04/15

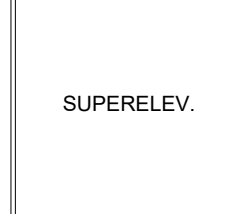
Obra
RM JOÃO FRANCELINO MACHADO

Conteúdo
PROJETO GEOMÉTRICO

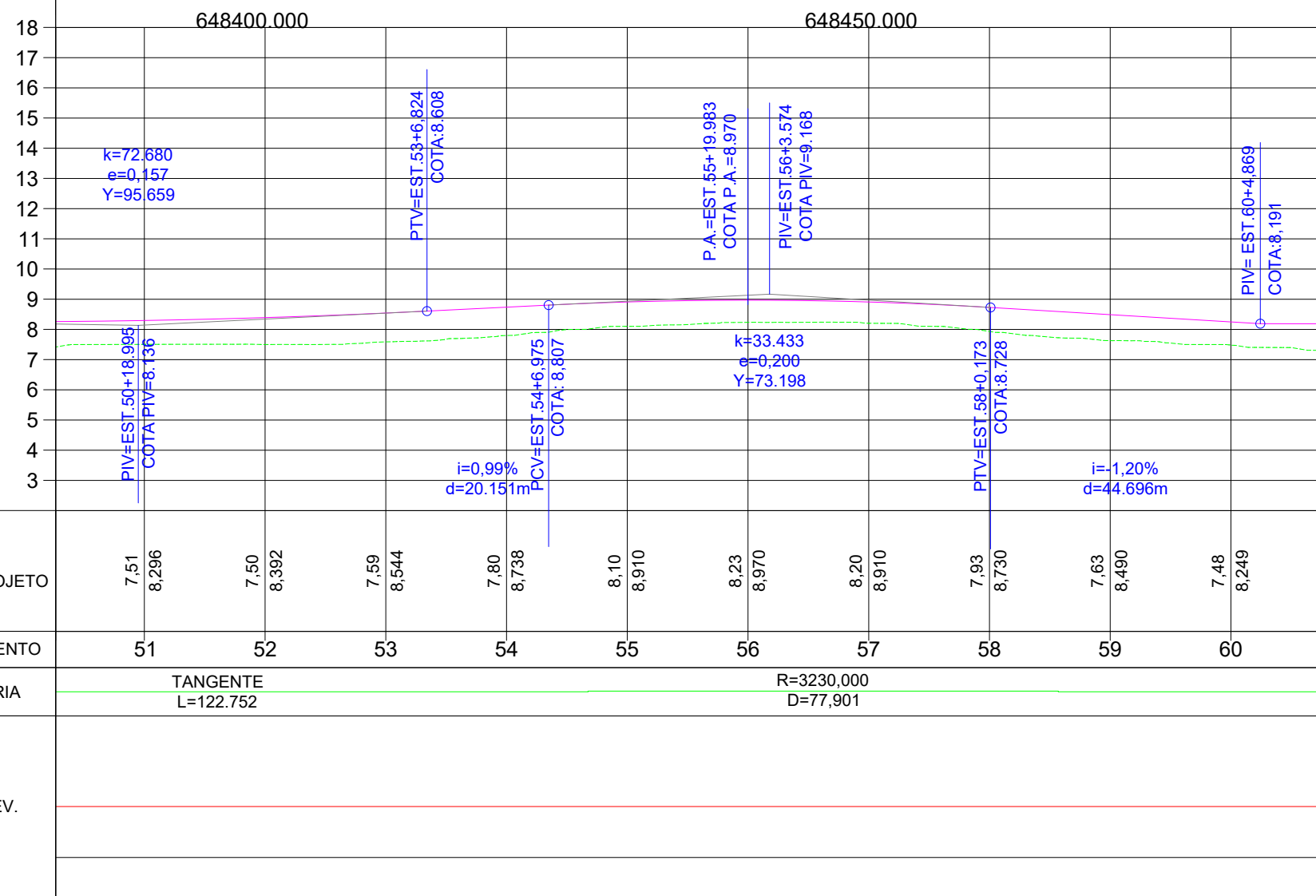
Local
RM JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC

A3 (297mm X 420mm)

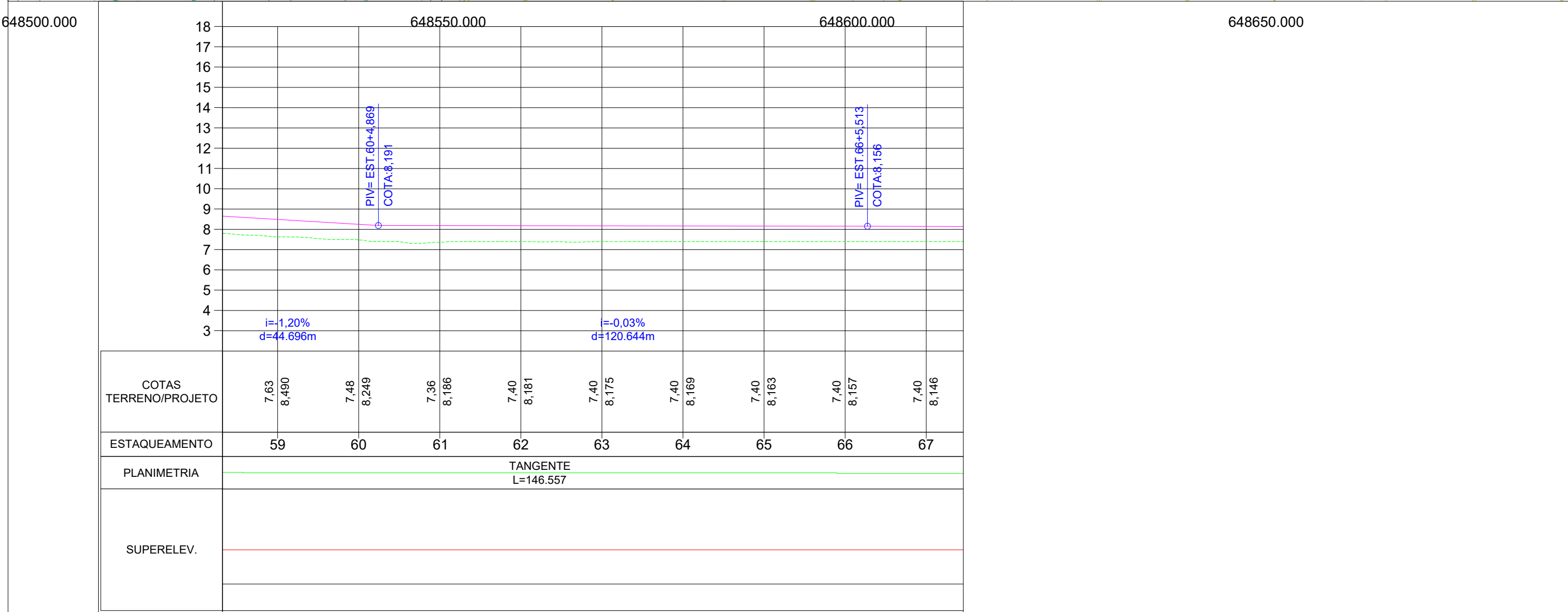
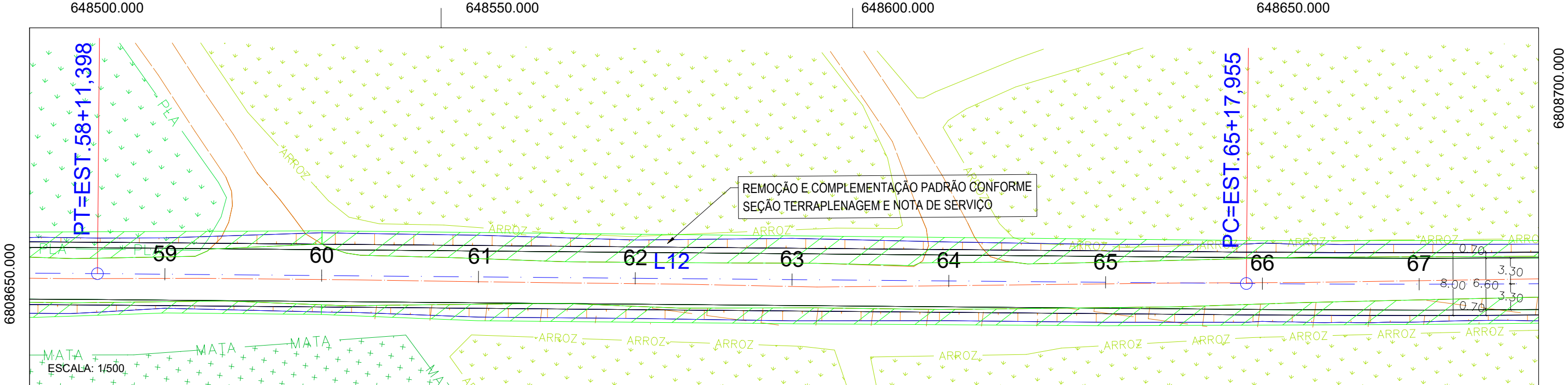




Local	RM JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC
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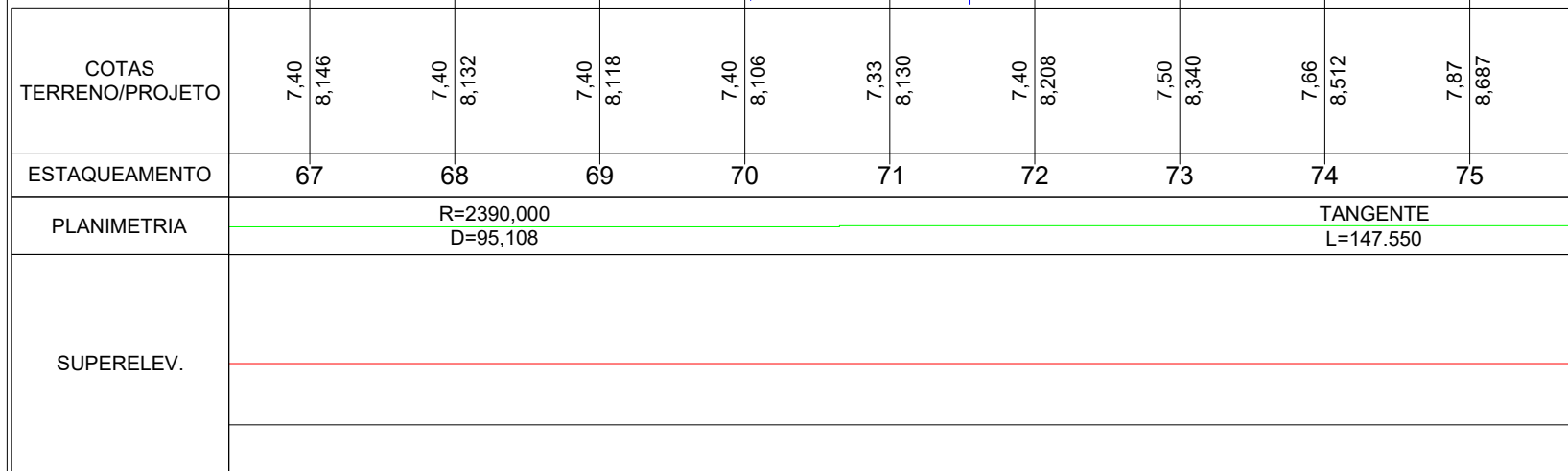


Local	RM JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC
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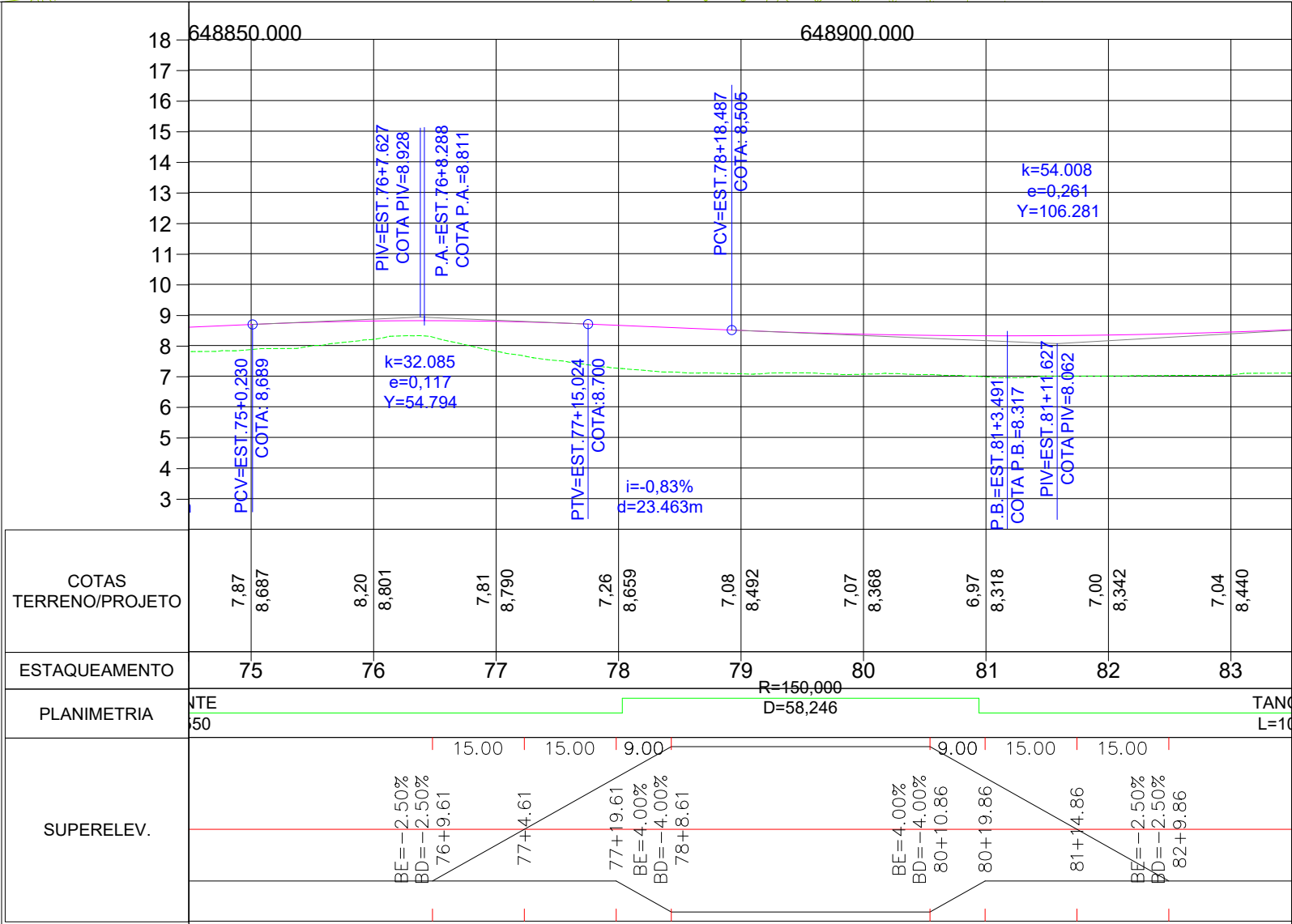
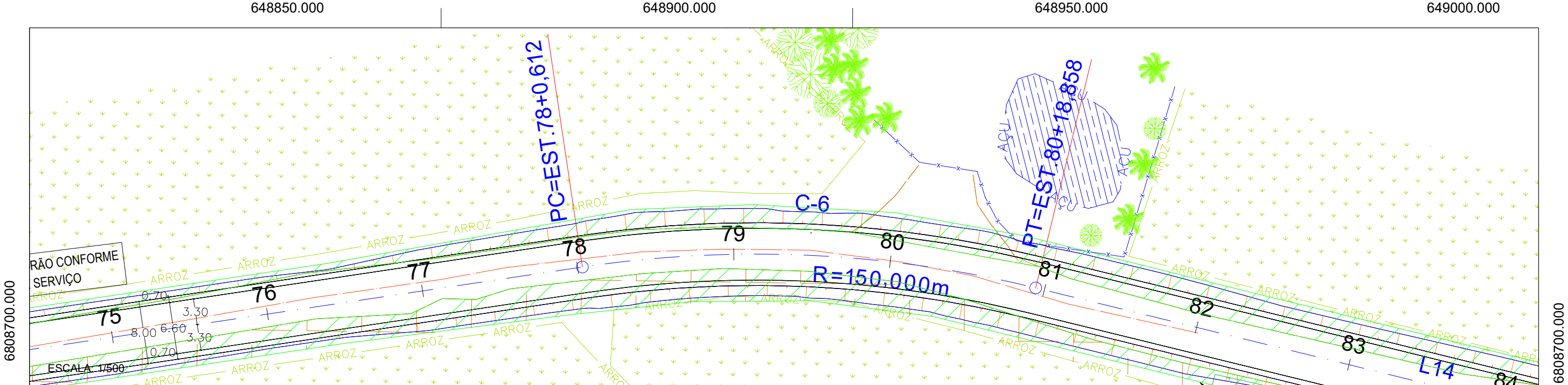


COTAS TERRENO/PROJETO	7.63 8,490	7.48 8,249	7.36 8,186	7.40 8,181	7.40 8,175	7.40 8,169	7.40 8,163	7.40 8,157	7.40 8,146
ESTAQUEAMENTO	59	60	61	62	63	64	65	66	67
PLANIMETRIA	TANGENTE L=146.557								
SUPERELEV.									

6808700.000



Local	RM JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC
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COTAS TERRENO/PROJETO	7.87 8,687	8.20 8,801	7.81 8,790	7.26 8,659	7.08 8,492	7.07 8,368	6.97 8,318	7.00 8,342	7.04 8,440
ESTAQUEAMENTO	75	76	77	78	79	80	81	82	83
PLANIMETRIA	R=150.000 D=58,246								
SUPERELEV.	BE=-2.50% BD=-2.50% 76+9.61 77+4.61 77+19.61 BE=4.00% BD=-4.00% 78+8.61 BE=4.00% BD=-4.00% 80+10.86 80+19.86 81+14.86 BE=-2.50% BD=-2.50% 82+9.86								



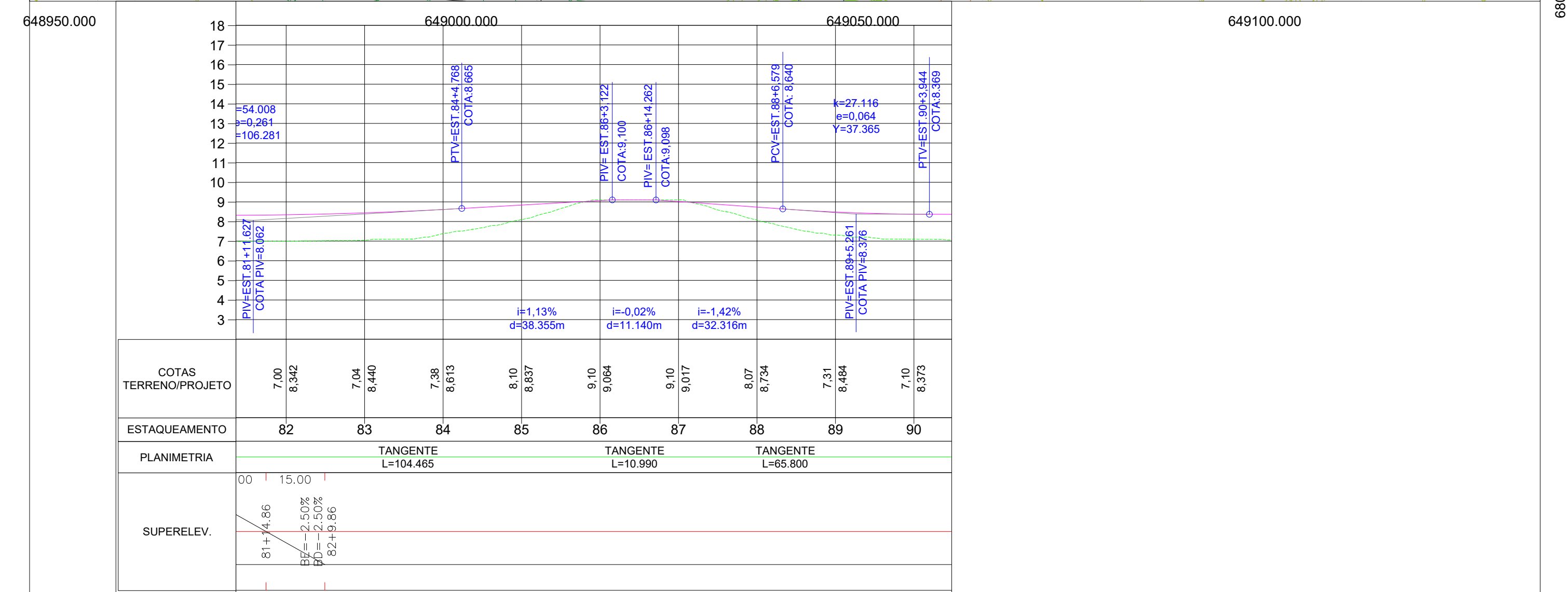
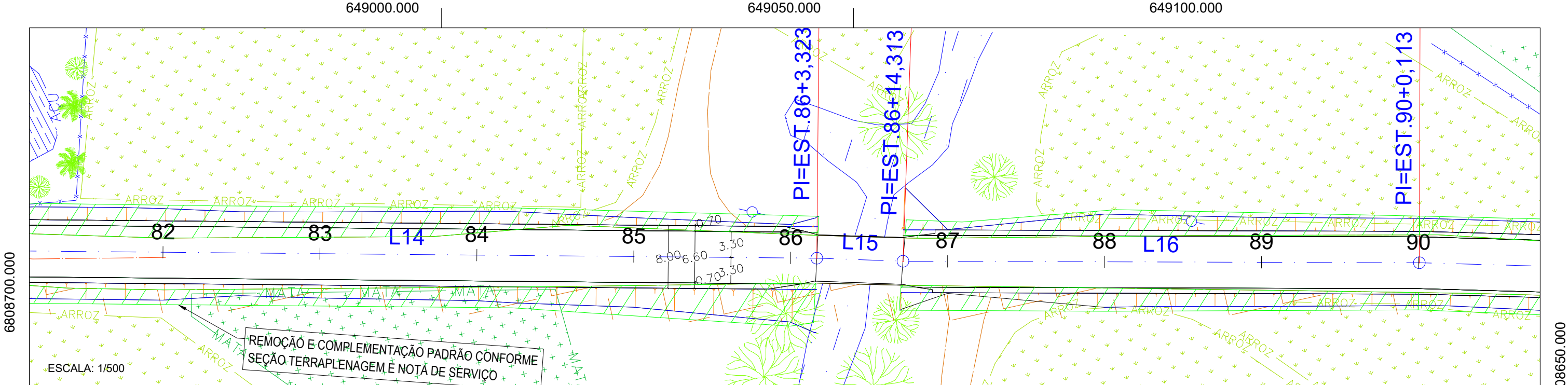
Autor do projeto:
BRUNO FRIGO PASINI
ENGENHEIRO CIVIL - CREA/SC 137.007-9

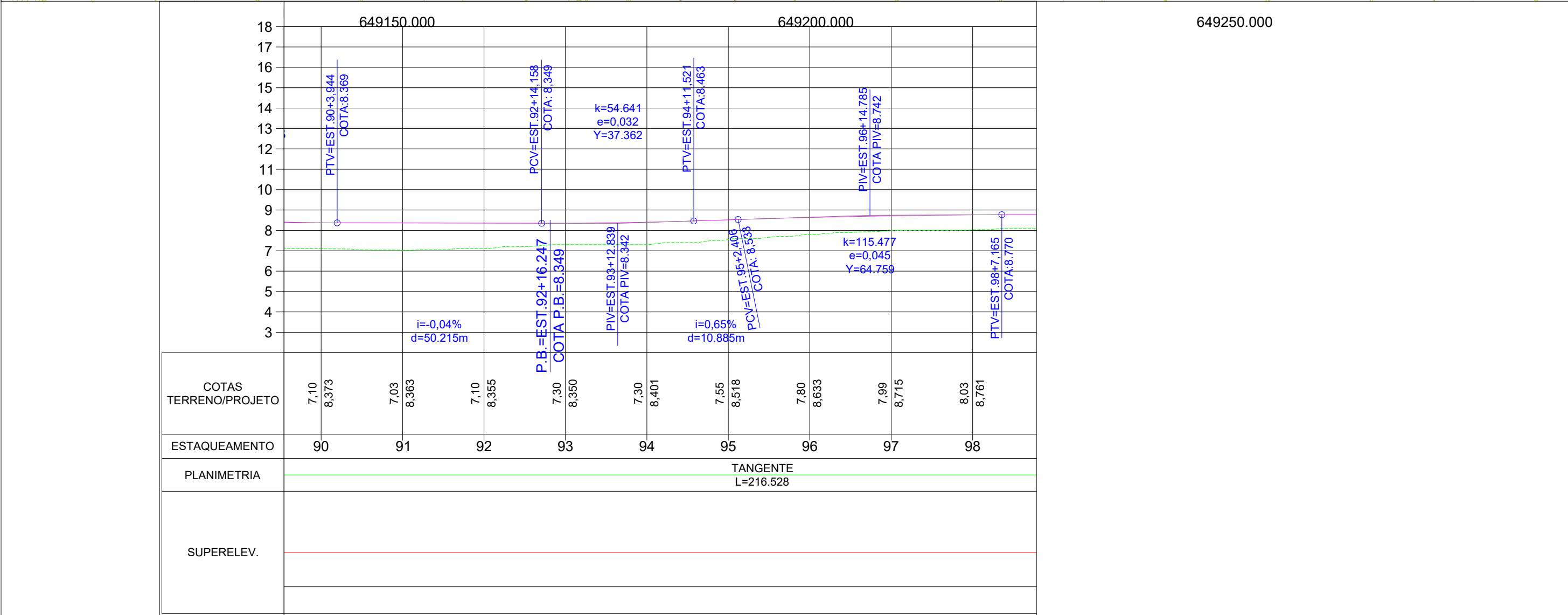
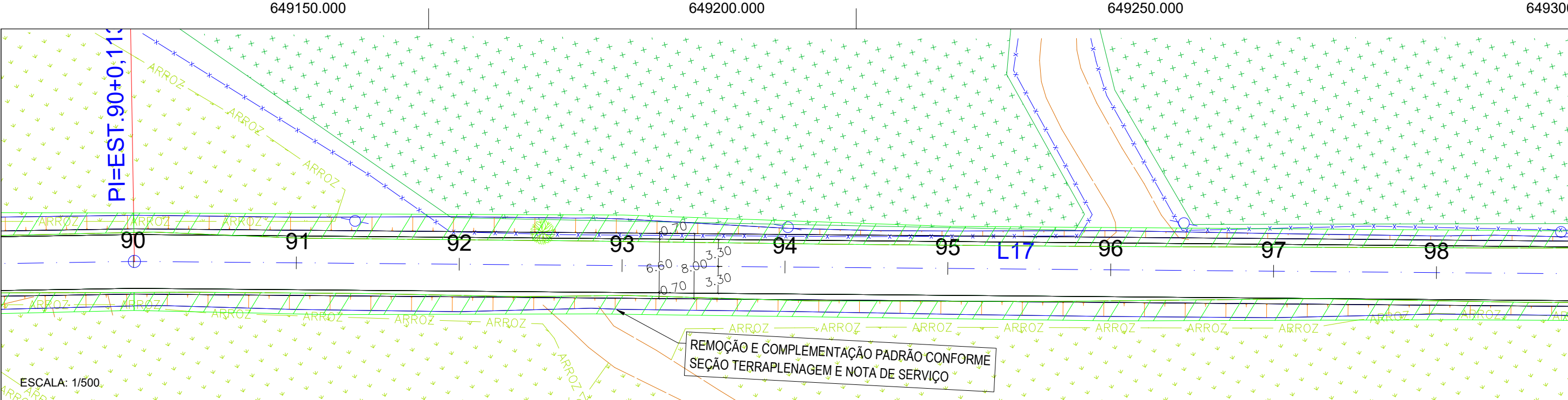
Prancha:
10/15

Obra
RM JOÃO FRANCELINO MACHADO

Conteúdo
PROJETO GEOMÉTRICO

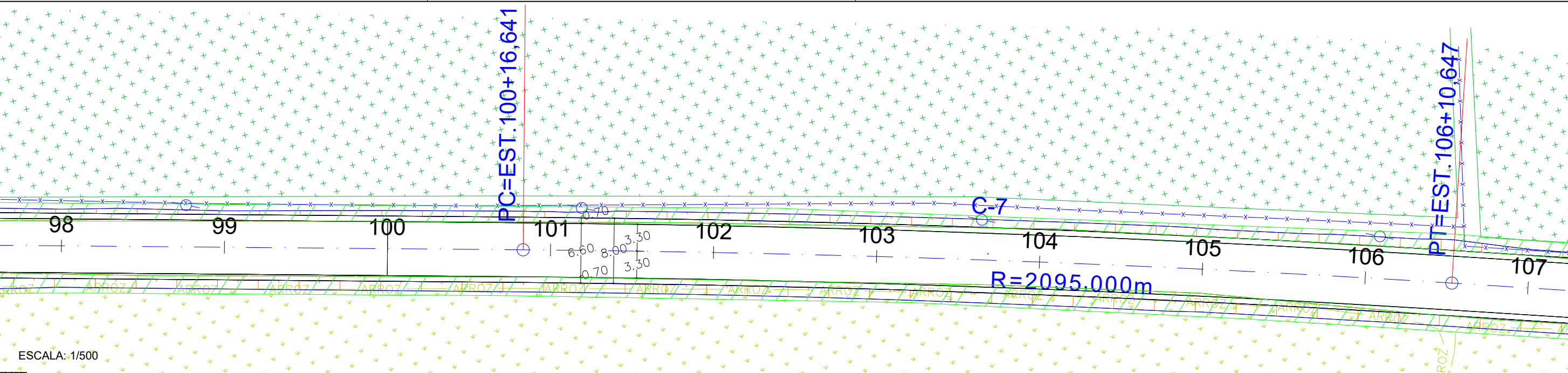
Local
RM JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC





COTAS TERRENO/PROJETO	7,10 8,373	7,03 8,363	7,10 8,355	7,30 8,350	7,30 8,401	7,55 8,518	7,80 8,633	7,99 8,715	8,03 8,761
ESTAQUEAMENTO	90	91	92	93	94	95	96	97	98
PLANIMETRIA	TANGENTE L=216.528								
SUPERELEV.									

6808650.000



6808600.000

		649300.000					649350.000								649400.000			649450.000
18																		
17																		
16																		
15																		
14																		
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12																		
11																		
10																		
9																		
8																		
7																		
6																		
5																		
4																		
3																		
	COTAS TERRENO/PROJETO	8,03 8,761	8,10 8,781	8,10 8,798	8,10 8,814	8,07 8,831	8,10 8,858	8,10 8,900	8,10 8,942	8,19 8,985	8,31 9,027							
	ESTAQUEAMENTO	98	99	100	101	102	103	104	105	106	107							
	PLANIMETRIA	R=2095,000 D=114,006																
	SUPERELEV.																	



Autor do projeto:
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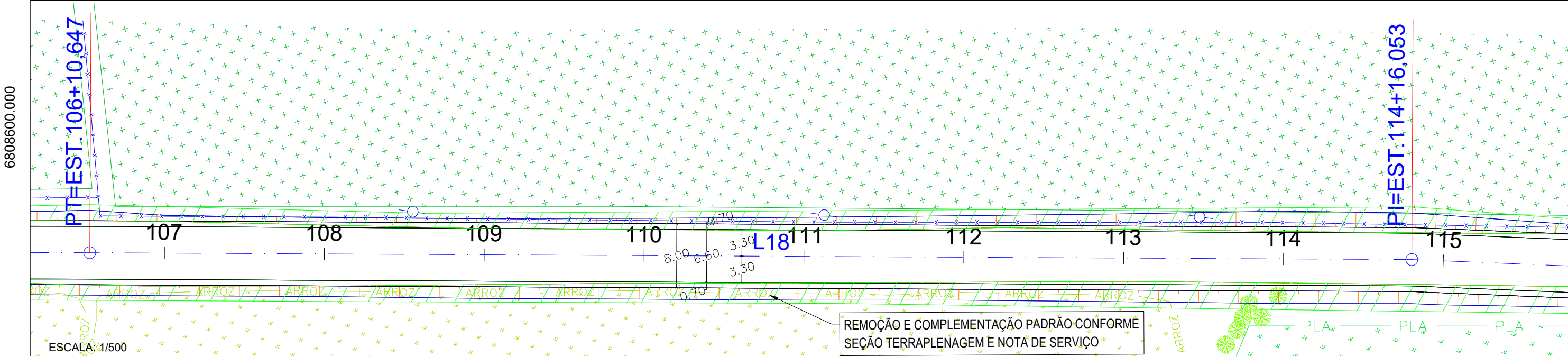
Prancha:
13/15

Obra
RM JOÃO FRANCELINO MACHADO

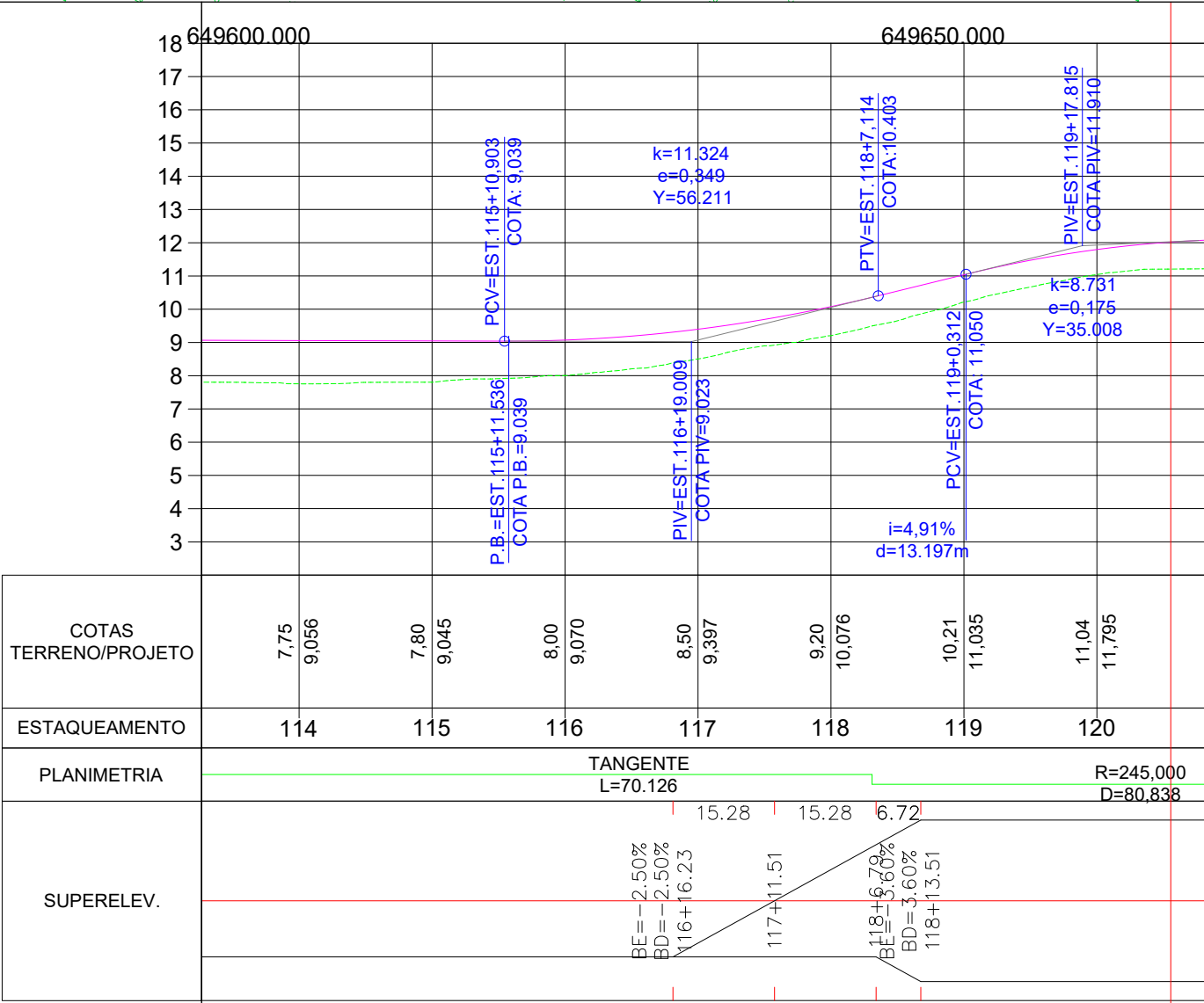
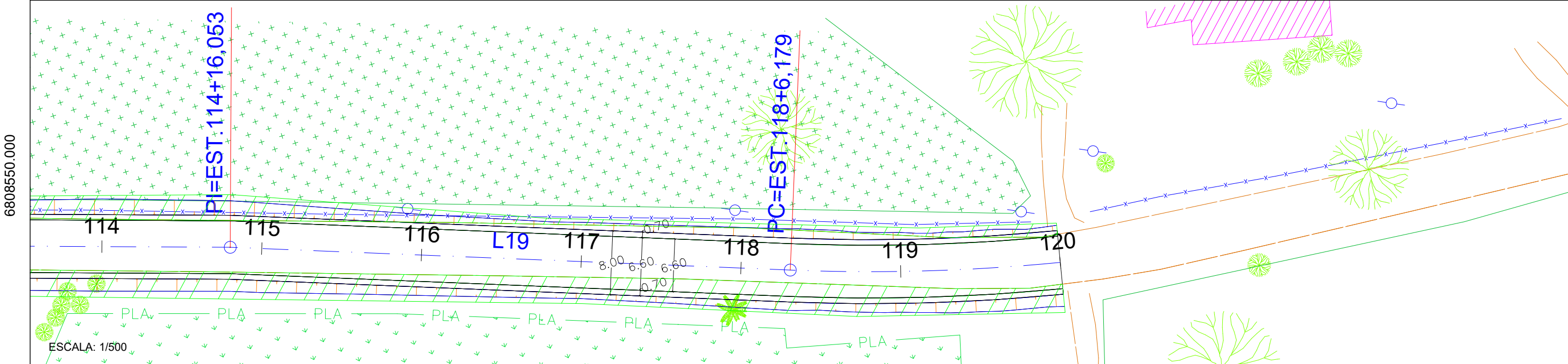
Conteúdo
PROJETO GEOMÉTRICO

Local
RM JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC

A3 (297mm X 420mm)



649450.000	18	649500.000										649550.000	649600.000
	17												
	16												
	15												
	14												
	13												
	12												
	11												
	10												
	9												
	8												
	7												
	6												
	5												
	4												
	3												
COTAS TERRENO/PROJETO		8,31 9,027	8,40 9,069	8,40 9,111	8,27 9,101	8,04 9,090	7,94 9,079	7,89 9,067	7,75 9,056	7,80 9,045			
ESTAQUEAMENTO		107	108	109	110	111	112	113	114	115			
PLANIMETRIA		TANGENTE L=165.406											
SUPERELEV.													



COTAS TERRENO/PROJETO	7,75 9,056	7,80 9,045	8,00 9,070	8,50 9,397	9,20 10,076	10,21 11,035	11,04 11,795
ESTAQUEAMENTO	114	115	116	117	118	119	120
PLANIMETRIA	TANGENTE L=70.126					R=245.000 D=80.838	
SUPERELEV.	15.2815.286.72 BE=-2.50% BD=-2.50% Y16+16.23 117+11.51 BE=-3.60% BD=-3.60% Y18+13.51						



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

Prancha:
15/15

Obra
RM JOÃO FRANCELINO MACHADO

Conteúdo
PROJETO GEOMÉTRICO

Local
RM JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC

ELEMENTOS GEOMÉTRICOS – ALI – RM JÃO FRANCELINO MACHADO														
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	087° 24’ 12.53”	–	–	–	–	–	51,509	–	0+0,000	2+11,509	N E	–	6808394,7705 647369,9500	6808397,1040 647421,4062
C–1	–	–	0,933	–	–	200,000	38,553	011° 02’ 40.16”	2+11,509	4+10,062	N E	6808397,9800 647440,7225	6808397,1040 647421,4062	6808402.5402 647459,5132
L2	076° 21’ 32.37”	–	–	–	–	–	30,683	–	4+10,062	6+0,745	N E	–	6808402,5402 647459,5132	6808409,7764 647489,3309
L3	076° 51’ 22.27”	–	–	–	–	–	38,453	–	6+0,745	7+19,198	N E	–	6808409,7764 647489,3309	6808418,5205 647526,7767
C–2	–	–	0,836	–	–	200,000	36,518	010° 27’ 41.43”	7+19,198	9+15,715	N E	6808422,6841 647544,6067	6808418,5205 647526,7767	6808430.0159 647561,3844
L4	066° 23’ 40.84”	–	–	–	–	–	136,020	–	9+15,715	16+11,736	N E	–	6808430,0159 647561,3844	6808484,4830 647686,0231
L5	065° 29’ 10.35”	–	–	–	–	–	118,490	–	16+11,736	22+10,225	N E	–	6808484,4830 647686,0231	6808533,6459 647793,8324
L6	065° 02’ 28.38”	–	–	–	–	–	5,965	–	22+10,225	22+16,190	N E	–	6808533,6459 647793,8324	6808536,1628 647799,2400
L7	067° 37’ 56.94”	–	–	–	–	–	53,655	–	22+16,190	25+9,845	N E	–	6808536,1628 647799,2400	6808556,5809 647848,8579
C–3	–	–	1,791	–	–	200,000	53,329	015° 16’ 39.16”	25+9,845	28+3,174	N E	6808566,7884 647873,6632	6808556,5809 647848,8579	6808570.0992 647900,2816
L8	082° 54’ 36.10”	–	–	–	–	–	105,713	–	28+3,174	33+8,886	N E	–	6808570,0992 647900,2816	6808583,1471 648005,1859
L9	082° 29’ 05.22”	–	–	–	–	–	180,887	–	33+8,886	42+9,773	N E	–	6808583,1471 648005,1859	6808606,8052 648184,5193
L10	081° 50’ 48.56”	–	–	–	–	–	120,972	–	42+9,773	48+10,746	N E	–	6808606,8052 648184,5193	6808623,9615 648304,2688
L11	081° 34’ 10.30”	–	–	–	–	–	122,752	–	48+10,746	54+13,497	N E	–	6808623,9615 648304,2688	6808641,9580 648425,6941
C–4	–	–	0,235	–	–	3230,000	77,901	001° 22’ 54.66”	54+13,497	58+11,398	N E	6808647,6688 648464,2254	6808641,9580 648425,6941	6808652.4487 648502,8832
L12	082° 57’ 04.96”	–	–	–	–	–	146,557	–	58+11,398	65+17,955	N E	–	6808652,4487 648502,8832	6808670,4329 648648,3322
C–5	–	–	0,473	–	–	2390,000	95,108	002° 16’ 48.15”	65+17,955	70+13,063	N E	6808676,2691 648695,5331	6808670,4329 648648,3322	6808683.9785 648742,4645
L13	080° 40’ 16.81”	–	–	–	–	–	147,550	–	70+13,063	78+0,612	N E	–	6808683,9785 648742,4645	6808707,8959 648888,0628
C–6	–	–	2,872	–	–	150,000	58,246	022° 14’ 53.47”	78+0,612	80+18,858	N E	6808712,6769 648917,1671	6808707,8959 648888,0628	6808706.0825 648945,9148
L14	102° 55’ 10.28”	–	–	–	–	–	104,465	–	80+18,858	86+3,323	N E	–	6808706,0825 648945,9148	6808682,7259 649047,7353
L15	104° 25’ 15.88”	–	–	–	–	–	10,990	–	86+3,323	86+14,313	N E	–	6808682,7259 649047,7353	6808679,9890 649058,3787
L16	102° 33’ 57.43”	–	–	–	–	–	65,800	–	86+14,313	90+0,113	N E	–	6808679,9890 649058,3787	6808665,6733 649122,6026
L17	103° 59’ 02.49”	–	–	–	–	–	216,528	–	90+0,113	100+16,641	N E	–	6808665,6733 649122,6026	6808613,3489 649332,7138
C–7	–	–	0,776	–	–	2095,000	114,006	003° 07’ 04.55”	100+16,641	106+10,647	N E	6808599,5707 649388,0411	6808613,3489 649332,7138	6808582.8035 649442,5371
L18	107° 06’ 07.04”	–	–	–	–	–	165,406	–	106+10,647	114+16,053	N E	–	6808582,8035 649442,5371	6808534,1620 649600,6294
L19	109° 08’ 05.17”	–	–	–	–	–	70,126	–	114+16,053	118+6,179	N E	–	6808534,1620 649600,6294	6808511,1755 649666,8806
C–8	–	–	3,372	–	–	245,000	80,838	018° 54’ 17.31”	118+6,179	122+7,017	N E	6808497,8049 649705,4167	6808511,1755 649666,8806	6808497.6412 649746,2061

				Obra
				RM JOÃO FRANCELINO MACHADO
		Autor do projeto:		Conteúdo
		BRUNO FRIGO PASINI ENGENHEIRO CIVIL - CREA/SC 137.007-9		ELEMENTOS GEOMÉTRICOS
			Prancha:	Local
			01/01	RM JOÃO FRANCELINO MACHADO, SÃO PEDRO - 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	0,18	2,04	0.00	0,00	0,00	0,00	0,00
1+0,00	0,27	0,58	4.47	26,14	4,47	26,14	-21,67
2+0,00	0,14	0,54	4.10	11,21	8,57	37,35	-28,77
3+0,00	0,56	0,61	7.01	11,55	15,58	48,89	-33,31
3+10,00	0,49	0,53	5.18	5,72	20,76	54,61	-33,86
4+0,00	0,05	1,44	2.65	9,76	23,41	64,38	-40,97
5+0,00	0,51	1,70	5.59	31,13	29,00	95,51	-66,50
6+0,00	0,75	1,71	12.64	34,07	41,65	129,58	-87,93
7+0,00	0,55	1,77	13.02	34,76	54,67	164,33	-109,66
8+0,00	0,00	3,78	5.52	55,44	60,19	219,78	-159,58
8+10,00	0,22	4,69	1.09	42,24	61,28	262,02	-200,73
9+0,00	0,35	4,54	2.77	46,11	64,05	308,13	-244,07
9+10,00	0,10	4,21	2.18	43,65	66,23	351,78	-285,55
10+0,00	0,00	3,96	0.49	40,77	66,72	392,55	-325,82
11+0,00	0,00	4,15	0.00	81,09	66,72	473,63	-406,91
12+0,00	0,20	0,54	2.03	46,88	68,76	520,51	-451,76
13+0,00	0,02	0,83	2.21	13,66	70,97	534,17	-463,20
14+0,00	0,02	1,44	0.39	22,70	71,36	556,87	-485,51
15+0,00	0,05	1,75	0.68	31,94	72,04	588,82	-516,77
16+0,00	0,04	1,19	0.88	29,35	72,92	618,17	-545,25
17+0,00	0,00	1,00	0.41	21,83	73,33	640,00	-566,67
18+0,00	0,13	0,68	1.33	16,76	74,67	656,77	-582,10
19+0,00	1,24	0,20	13.73	8,76	88,40	665,53	-577,13
20+0,00	0,89	0,20	21.29	4,02	109,69	669,55	-559,87
21+0,00	1,30	0,20	21.93	4,09	131,62	673,64	-542,03
22+0,00	9,00	0,03	103.06	2,31	234,68	675,96	-441,28
23+0,00	6,94	0,00	159.17	0,27	393,85	676,23	-282,38
24+0,00	2,41	0,27	93.55	2,73	487,40	678,96	-191,55
25+0,00	0,49	4,29	29.00	45,63	516,40	724,59	-208,19
26+0,00	0,52	1,03	5.04	26,62	521,44	751,21	-229,76
26+0,00	0,33	1,38	4.31	12,22	525,75	763,43	-237,68
26+10,00	0,42	1,45	3.67	14,33	529,42	777,76	-248,34
27+0,00	0,00	1,86	2.04	16,70	531,46	794,46	-263,00

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)
27+10,00	0,00	1,71	0.00	17,97	531,46	812,43	-280,97
28+0,00	0,02	2,33	0.08	20,33	531,55	832,76	-301,22
29+0,00	0,00	4,21	0.16	65,39	531,71	898,16	-366,44
30+0,00	0,00	4,20	0.00	84,11	531,71	982,27	-450,56
31+0,00	0,00	3,15	0.00	73,49	531,71	1055,76	-524,05
32+0,00	0,00	4,54	0.00	76,85	531,71	1132,61	-600,90
33+0,00	0,00	5,31	0.00	98,52	531,71	1231,14	-699,42
34+0,00	0,00	3,89	0.00	92,02	531,71	1323,16	-791,45
35+0,00	0,00	2,31	0.00	61,95	531,71	1385,11	-853,39
36+0,00	0,00	3,04	0.00	53,49	531,71	1438,60	-906,89
37+0,00	0,00	2,29	0.00	53,38	531,71	1491,98	-960,27
38+0,00	0,00	2,49	0.00	47,80	531,71	1539,78	-1008,07
39+0,00	0,00	2,70	0.00	51,88	531,71	1591,66	-1059,94
40+0,00	0,00	2,47	0.00	51,72	531,71	1643,37	-1111,66
41+0,00	0,00	2,36	0.00	48,31	531,71	1691,69	-1159,97
42+0,00	0,56	0,66	5.57	30,27	537,29	1721,95	-1184,67
43+0,00	0,12	1,03	6.80	16,98	544,09	1738,93	-1194,85
44+0,00	0,01	1,84	1.30	28,71	545,38	1767,65	-1222,26
45+0,00	0,06	1,84	0.70	36,76	546,08	1804,40	-1258,32
46+0,00	0,39	1,57	4.58	34,08	550,66	1838,48	-1287,82
47+0,00	0,00	4,16	3.95	57,32	554,61	1895,81	-1341,19
48+0,00	0,00	3,97	0.00	81,34	554,61	1977,14	-1422,53
49+0,00	0,00	3,26	0.00	72,33	554,61	2049,47	-1494,86
50+0,00	0,00	2,50	0.00	57,64	554,61	2107,11	-1552,50
51+0,00	0,00	2,61	0.00	51,15	554,61	2158,26	-1603,65
52+0,00	0,00	3,86	0.00	64,69	554,61	2222,94	-1668,33
53+0,00	1,98	1,98	19.76	58,41	574,37	2281,36	-1706,98
54+0,00	1,72	1,66	36.98	36,42	611,35	2317,77	-1706,42
55+0,00	0,17	0,77	18.94	24,29	630,30	2342,06	-1711,76
55+10,00	0,07	1,04	1.19	9,05	631,49	2351,11	-1719,62
56+0,00	0,28	0,63	1.72	8,33	633,21	2359,44	-1726,23
56+10,00	0,40	0,47	3.38	5,47	636,58	2364,91	-1728,33
57+0,00	0,29	0,39	3.42	4,29	640,01	2369,20	-1729,20

				Obra	RM JOÃO FRANCELINO MACHADO
		Autor do projeto:		Conteúdo	
		BRUNO FRIGO PASINI ENGENHEIRO CIVIL - CREA/SC 137.007-9		TABELA DE VOLUMES	
			Prancha:	Local	
			01/03	RM JOÃO FRANCELINO MACHADO, SÃO PEDRO - 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)
57+10,00	0,27	0,45	2.77	4,22	642,78	2373,42	-1730,64
58+0,00	0,20	0,91	2.36	6,79	645,14	2380,21	-1735,07
58+10,00	0,17	1,38	1.89	11,41	647,03	2391,62	-1744,59
59+0,00	0,33	1,03	2.53	12,06	649,56	2403,68	-1754,12
60+0,00	0,00	1,19	3.31	22,25	652,87	2425,93	-1773,05
61+0,00	0,00	2,20	0.00	33,95	652,88	2459,87	-1807,00
62+0,00	0,00	1,86	0.00	40,61	652,88	2500,49	-1847,61
63+0,00	0,00	2,01	0.00	38,65	652,88	2539,14	-1886,27
64+0,00	0,02	0,89	0.17	29,00	653,05	2568,14	-1915,09
65+0,00	0,01	1,15	0.24	20,42	653,29	2588,56	-1935,27
66+0,00	0,01	1,38	0.16	25,26	653,45	2613,82	-1960,37
66+10,00	0,00	1,25	0.05	13,15	653,50	2626,97	-1973,47
67+0,00	0,00	1,11	0.01	11,85	653,51	2638,82	-1985,31
67+10,00	0,01	0,89	0.07	10,03	653,58	2648,84	-1995,26
68+0,00	0,00	0,95	0.07	9,23	653,65	2658,07	-2004,42
68+10,00	0,01	0,82	0.03	8,89	653,69	2666,96	-2013,27
69+0,00	0,02	0,76	0.13	7,90	653,82	2674,86	-2021,04
69+10,00	0,08	0,69	0.50	7,22	654,32	2682,09	-2027,77
70+0,00	0,05	0,72	0.66	7,05	654,98	2689,13	-2034,15
70+10,00	0,04	0,79	0.46	7,56	655,44	2696,69	-2041,25
71+0,00	0,02	1,12	0.30	9,53	655,74	2706,22	-2050,49
72+0,00	0,00	1,32	0.19	24,40	655,93	2730,62	-2074,70
73+0,00	0,03	1,59	0.32	29,17	656,25	2759,80	-2103,55
74+0,00	0,08	1,34	1.08	29,28	657,33	2789,08	-2131,75
75+0,00	0,05	1,15	1.22	24,81	658,55	2813,89	-2155,34
76+0,00	1,35	0,25	13.92	13,92	672,47	2827,81	-2155,34
77+0,00	0,00	3,21	13.47	34,55	685,93	2862,36	-2176,43
78+0,00	0,04	7,58	0.37	107,93	686,30	2970,29	-2283,99
78+10,00	0,00	8,28	0.20	79,56	686,50	3049,86	-2363,36
79+0,00	0,01	7,59	0.05	79,65	686,55	3129,51	-2442,97
79+10,00	0,00	7,42	0.03	75,23	686,57	3204,74	-2518,17
80+0,00	0,01	7,26	0.02	73,38	686,60	3278,12	-2591,52
80+10,00	0,00	7,19	0.04	72,13	686,64	3350,25	-2663,61

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)
81+0,00	0,00	7,70	0.02	74,30	686,66	3424,55	-2737,89
82+0,00	0,00	7,27	0.01	149,64	686,67	3574,19	-2887,52
83+0,00	0,00	6,71	0.00	139,73	686,67	3713,92	-3027,25
84+0,00	0,00	6,48	0.00	131,90	686,67	3845,81	-3159,14
85+0,00	0,31	2,20	3.10	86,81	689,77	3932,62	-3242,85
86+0,00	5,94	1,79	62.51	39,89	752,28	3972,52	-3220,23
87+0,00	9,32	0,00	152.61	17,92	904,90	3990,44	-3085,54
88+0,00	0,11	2,60	94.35	26,04	999,25	4016,47	-3017,22
89+0,00	0,00	5,72	1.14	83,27	1000,39	4099,74	-3099,35
90+0,00	0,00	6,07	0.00	117,89	1000,39	4217,64	-3217,25
91+0,00	0,00	6,78	0.00	128,44	1000,39	4346,07	-3345,68
92+0,00	0,00	6,55	0.00	133,28	1000,39	4479,35	-3478,96
93+0,00	0,00	4,49	0.00	110,43	1000,39	4589,79	-3589,40
94+0,00	0,01	3,51	0.10	80,00	1000,49	4669,79	-3669,29
95+0,00	0,02	2,95	0.28	64,58	1000,78	4734,37	-3733,60
96+0,00	0,00	2,20	0.21	51,53	1000,98	4785,90	-3784,92
97+0,00	0,10	1,56	1.07	37,58	1002,05	4823,48	-3821,43
98+0,00	0,22	0,71	3.22	22,64	1005,27	4846,13	-3840,86
99+0,00	0,37	0,54	5.88	12,45	1011,15	4858,58	-3847,42
100+0,00	0,29	0,58	6.64	11,19	1017,79	4869,76	-3851,97
101+0,00	0,12	0,80	4.16	13,76	1021,95	4883,52	-3861,57
101+10,00	0,09	0,92	1.06	8,58	1023,01	4892,10	-3869,10
102+0,00	0,06	1,18	0.74	10,51	1023,74	4902,61	-3878,87
102+10,00	0,01	1,51	0.32	13,45	1024,07	4916,07	-3892,00
103+0,00	0,02	1,35	0.13	14,30	1024,19	4930,37	-3906,17
103+10,00	0,00	1,42	0.11	13,87	1024,30	4944,23	-3919,93
104+0,00	0,00	1,62	0.01	15,19	1024,31	4959,42	-3935,11
104+10,00	0,00	1,92	0.00	17,69	1024,31	4977,11	-3952,80
105+0,00	0,00	1,76	0.00	18,42	1024,32	4995,53	-3971,21
105+10,00	0,00	1,81	0.00	17,84	1024,32	5013,37	-3989,05
106+0,00	0,00	1,83	0.00	18,18	1024,32	5031,55	-4007,23
106+10,00	0,02	1,38	0.08	16,08	1024,40	5047,63	-4023,23
107+0,00	0,18	0,85	0.97	11,19	1025,38	5058,82	-4033,45

				Obra
				RM JOÃO FRANCELINO MACHADO
		Autor do projeto: BRUNO FRIGO PASINI ENGENHEIRO CIVIL - CREA/SC 137.007-9		Conteúdo
		Prancha:	Local	
		02/03	RM JOÃO FRANCELINO MACHADO, SÃO PEDRO - 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)
108+0,00	0,46	0,75	6.39	16,08	1031,77	5074,90	-4043,14
109+0,00	0,16	0,81	6.23	15,62	1037,99	5090,52	-4052,53
110+0,00	0,00	2,00	1.64	28,09	1039,64	5118,61	-4078,97
111+0,00	0,00	3,70	0.03	57,04	1039,67	5175,65	-4135,98
112+0,00	0,00	4,43	0.00	81,35	1039,67	5257,00	-4217,34
113+0,00	0,00	5,05	0.00	94,87	1039,67	5351,87	-4312,20
114+0,00	0,00	6,62	0.00	116,79	1039,67	5468,66	-4429,00
115+0,00	0,00	5,70	0.00	123,35	1039,67	5592,01	-4552,35
116+0,00	0,00	3,42	0.00	91,28	1039,67	5683,29	-4643,63
117+0,00	0,12	1,52	1.24	49,44	1040,91	5732,74	-4691,83
118+0,00	0,00	1,64	1.24	31,66	1042,15	5764,39	-4722,24
118+10,00	0,01	1,93	0.05	17,88	1042,20	5782,28	-4740,08
119+0,00	0,04	1,40	0.23	16,67	1042,43	5798,95	-4756,52
119+10,00	0,01	1,82	0.22	16,20	1042,65	5815,15	-4772,49
120+0,00	0,12	1,50	0.62	16,76	1043,28	5831,91	-4788,63

REMOÇÃO DE CERCA E RECONSTRUÇÃO							
TRECHO EST 0+0,00 A 120+0,00 - RM JOÃO FRANCELINO MACHADO							
LADO ESQUERDO				LADO DIREITO			
EST	EST	COMPRIMENTO	CERCA	EST	EST	COMPRIMENTO	CERCA
Início	Fim	[m]	[TIPO]	Início	Fim	[m]	[TIPO]
80+13,50	81+9,00	16,00	ARAME/7 FIOS/MADEIRA				
91+14,40	95+18,00	90,00	ARAME/4 FIOS/MADEIRA				
106+12,00	116+15,00	205,00	ARAME/4 FIOS/MADEIRA				
TOTAL [m]						311,00	

REMOÇÃO E COMPLEMENTAÇÃO											
TRECHO EST 0+0,00 A 120+0,00 - RM JOÃO FRANCELINO MACHADO											
LADO ESQUERDO						LADO DIREITO					
EST	EST	ÁREA	ESP.	TIPO	ESCAV.	EST	EST	ÁREA	ESP.	TIPO	ESCAV.
Início	Fim	[m²]	[M]	[I]	[m³]	Início	Fim	[m²]	[M]	[I]	[m³]
0+0,00	30+0,00	1700,80	0,60	ALARG. ESTRADA	1020,48	0+0,00	30+0,00	1766,69	0,60	ALARG. ESTRADA	1060,014
30+0,00	60+0,00	1608,15	0,60	ALARG. ESTRADA	964,89	30+0,00	60+0,00	1532,82	0,60	ALARG. ESTRADA	919,692
60+0,00	90+0,00	1542,01	0,60	ALARG. ESTRADA	925,206	60+0,00	90+0,00	1691,89	0,60	ALARG. ESTRADA	1015,134
90+0,00	120+0,00	1246,44	0,60	ALARG. ESTRADA	747,864	90+0,00	120+0,00	1568,95	0,60	ALARG. ESTRADA	941,37
24+0,00	26+0,00	172,62	2,00	BANHADO	345,24						
					0						
					0						
ÁREA TOTAL DE ESCAVAÇÃO (LD/LE) (m²)					12830,37	Espessura de remoção adicional nas Áreas de Cultivo de Arroz/Banhado/Fora do Leito Existente/Implatação Nova					
VOLUME TOTAL DE ESCAVAÇÃO (m³)					7939,89						

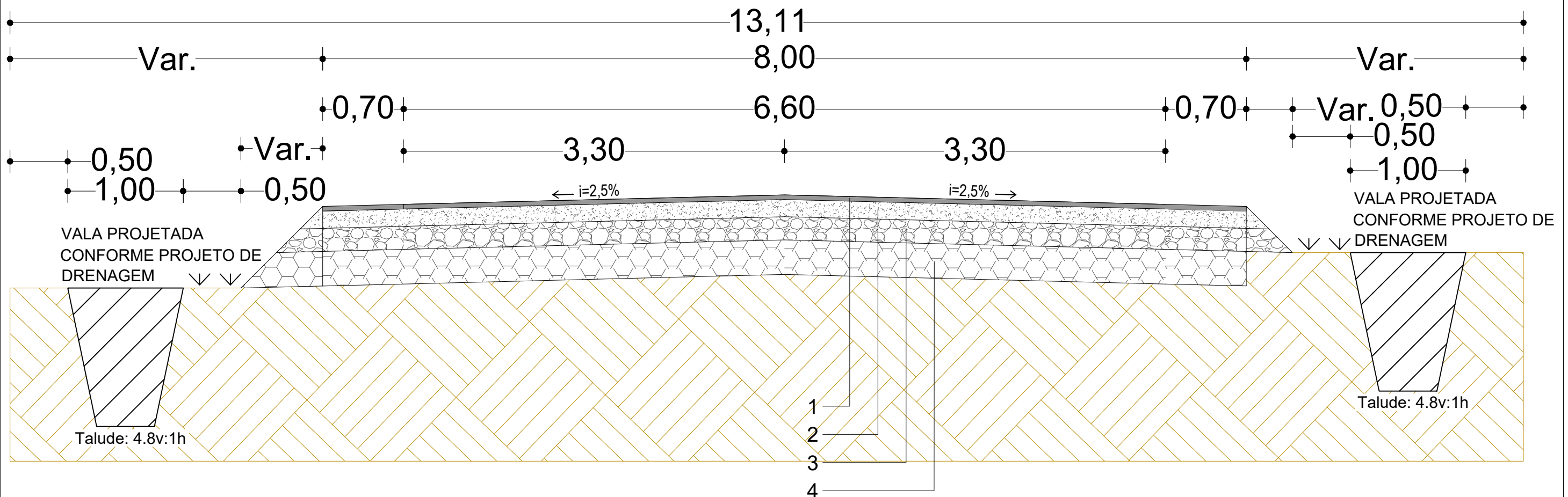
		Obra		RM JOÃO FRANCELINO MACHADO
		Autor do projeto:		Conteúdo
		BRUNO FRIGO PASINI ENGENHEIRO CIVIL - CREA/SC 137.007-9		TABELA DE VOLUMES E DE REMOÇÃO
		Prancha:	Local	
		03/03	RM JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC	

PROJETO DE PAVIMENTAÇÃO
-- Seção Tipo de Pavimentação

SEÇÃO TIPO DE PAVIMENTAÇÃO DA RM JOÃO FRANCELINO MACHADO

EST. 0+0,000

Á 120+0,00 m.



LEGENDA			DIMENSÕES	
			LARGURA (m)	ESPESSURA (m)
01	REVESTIMENTO PISTA + ACOSTAMENTO	CONCRETO ASFALTICO USINADO A QUENTE (CAUQ)	8,00	0,04
-	PINTURA DE LIGAÇÃO	RR-2C	8,00	0,8 L/m²
-	IMPRIMAÇÃO	EAI	8,00	1,2 L/m²
02	BASE	BRITA GRADUADA	8,00	0,15
03	SUB-BASE	MACADAME	8,00	0,20
04	REFORÇO./TERRA. (CBR ≥ 12%)	SEIXO ROLADO	8,00/Var.	0,30/Var.

*OBS: Conforme representado no projeto Geométrico em alguns pontos foi previsto remoção adicional com espessura conforme Nota de Serviço Tabela " Remoção e Complementação" em seixo conforme seção de terraplenagem.

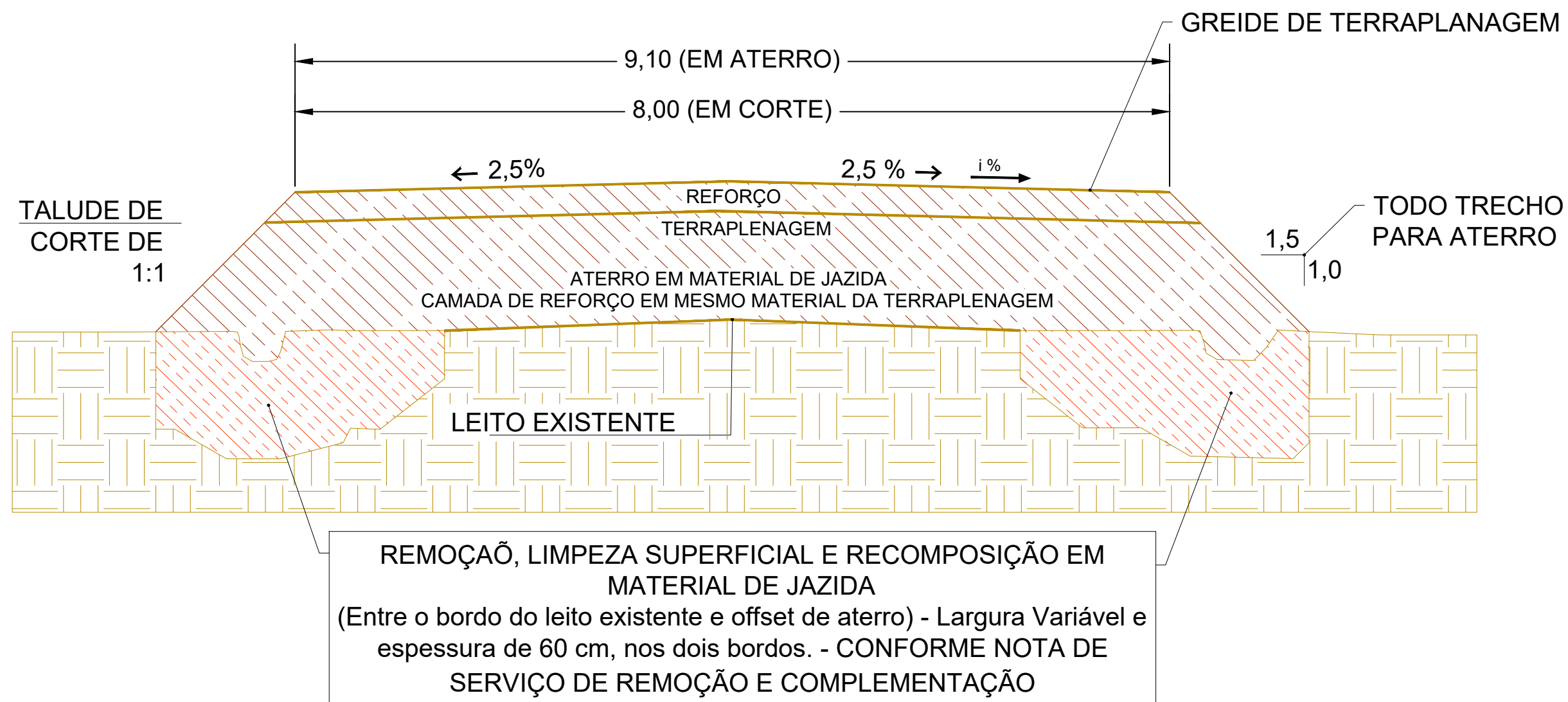


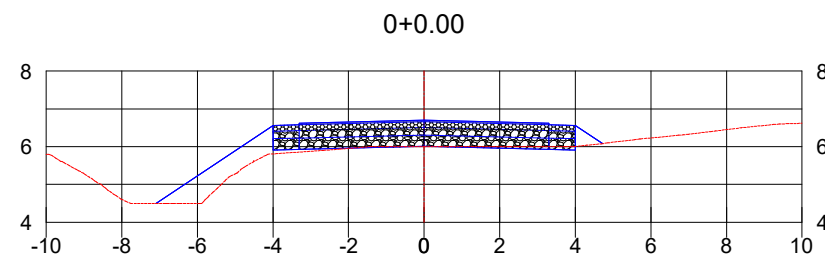
PROJETO DE TERRAPLENAGEM

-- Seções Tipo

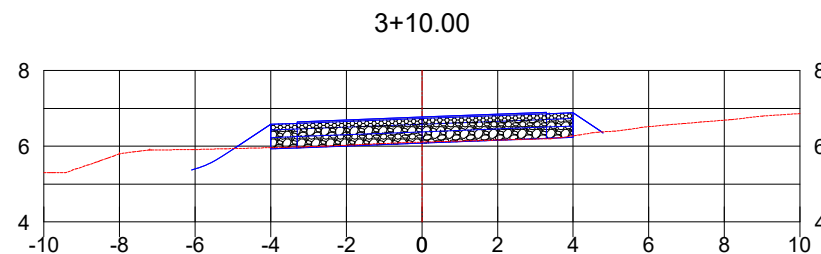
-- Seções de projeto

SEÇÕES TIPO DE TERRAPLENAGEM

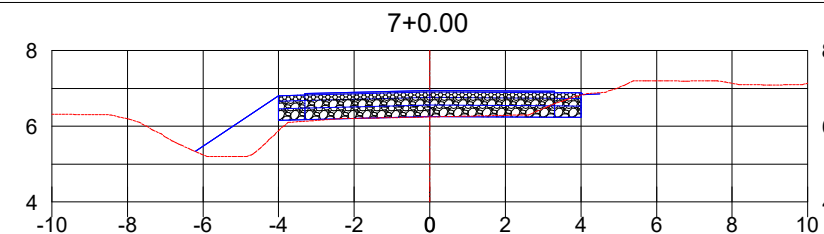




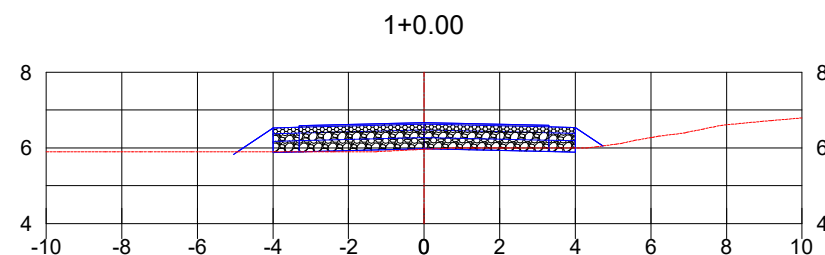
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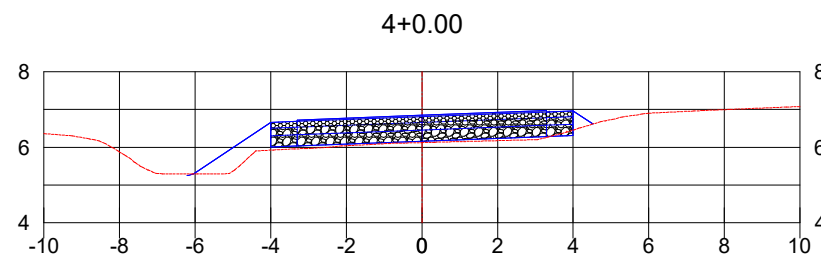
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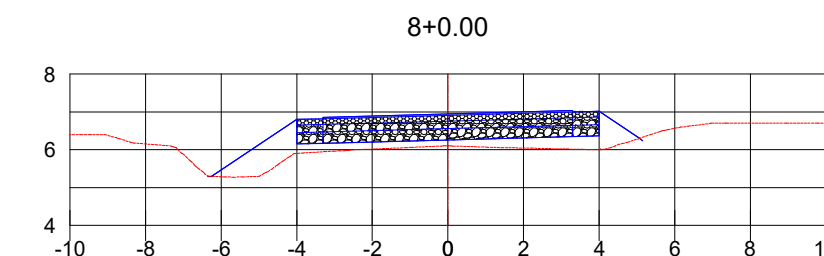
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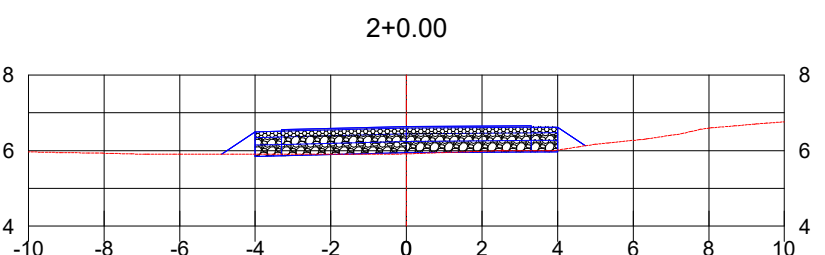
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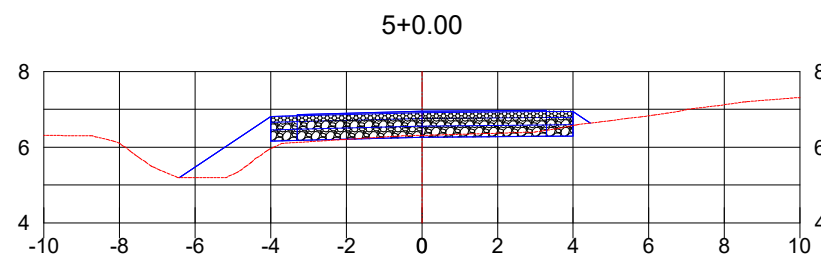
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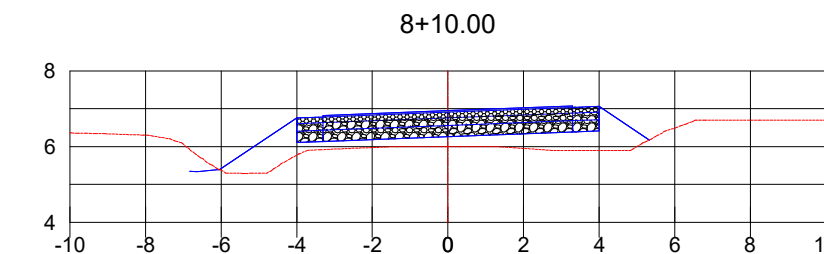
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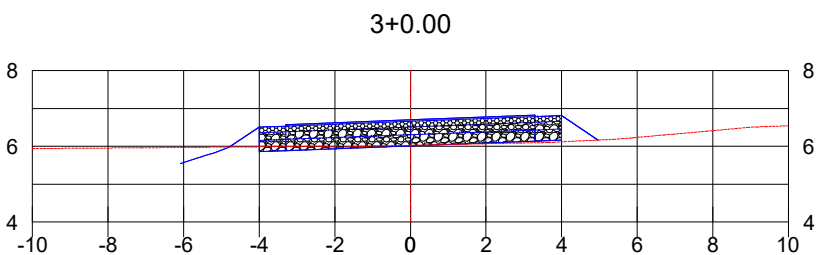
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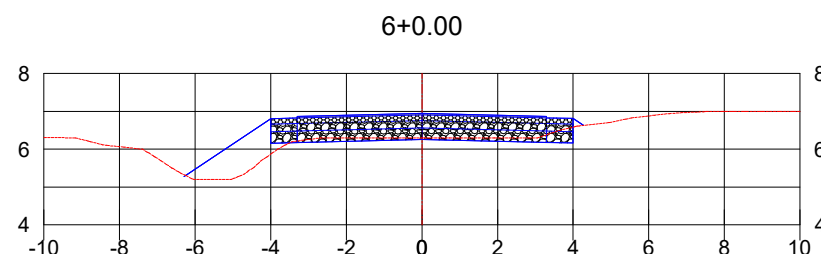
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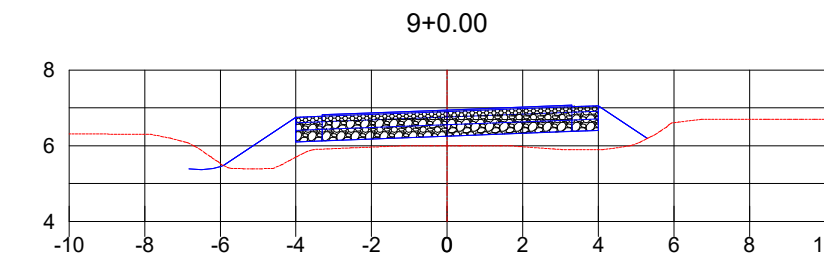
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CPT: 6.26



CT: 6.03
CPP: 6.70
CPT: 6.01



CT: 6.30
CPP: 6.95
CPT: 6.26



CT: 6.00
CPP: 6.95
CPT: 6.26

ESCALA: 1/200

IDEALIZE
ARQUITETURA E ENGENHARIA
CREA/SC 169873-0



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

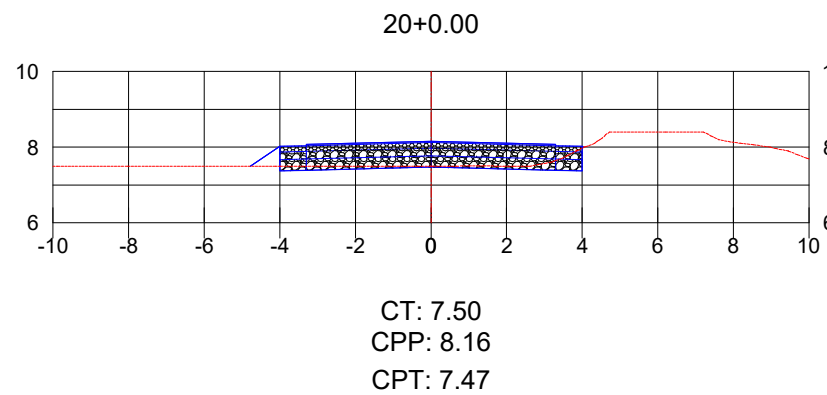
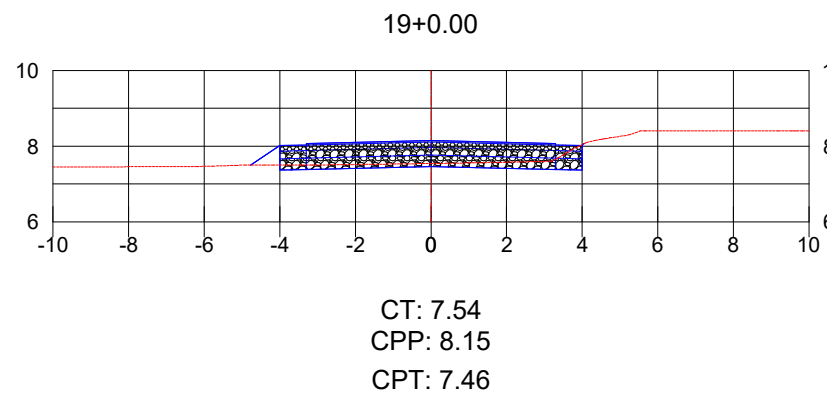
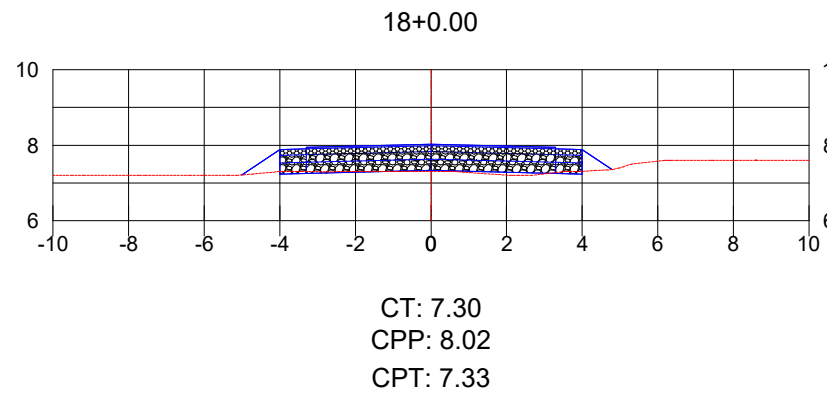
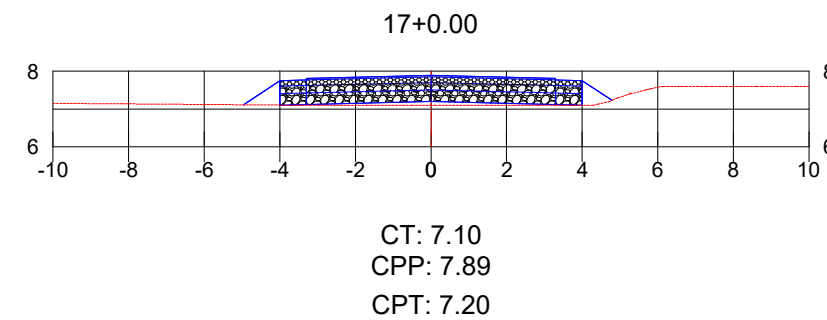
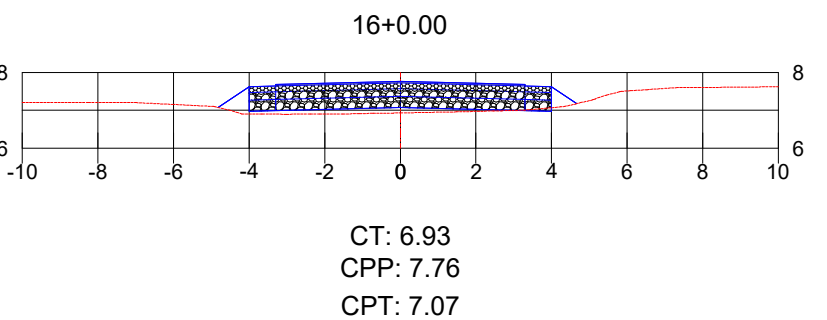
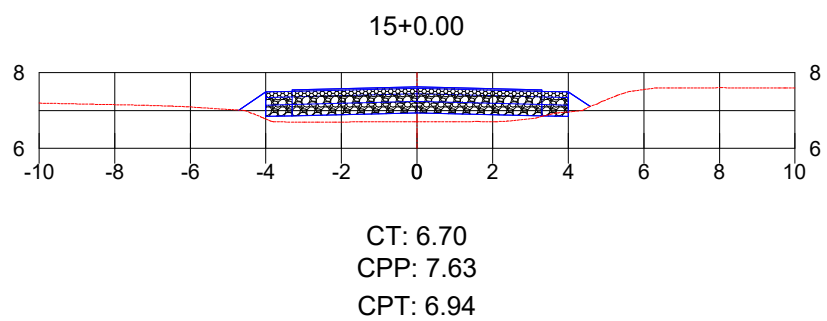
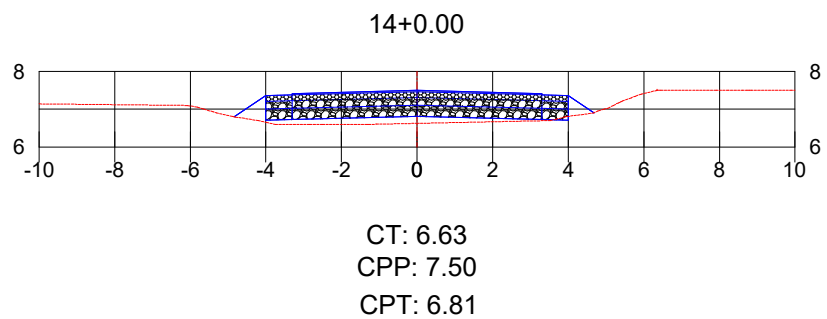
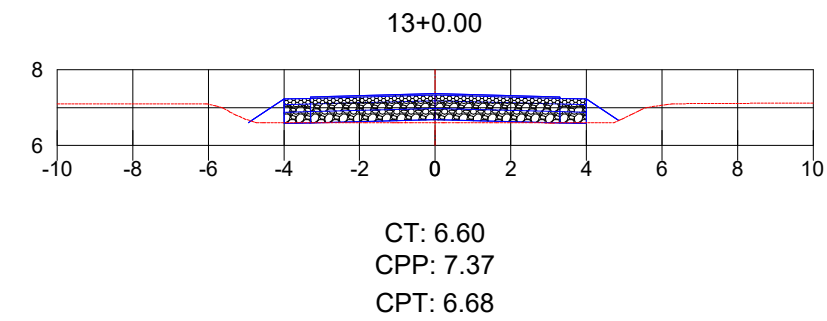
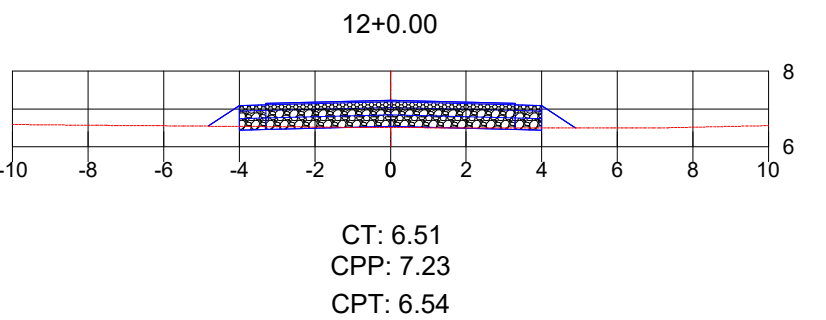
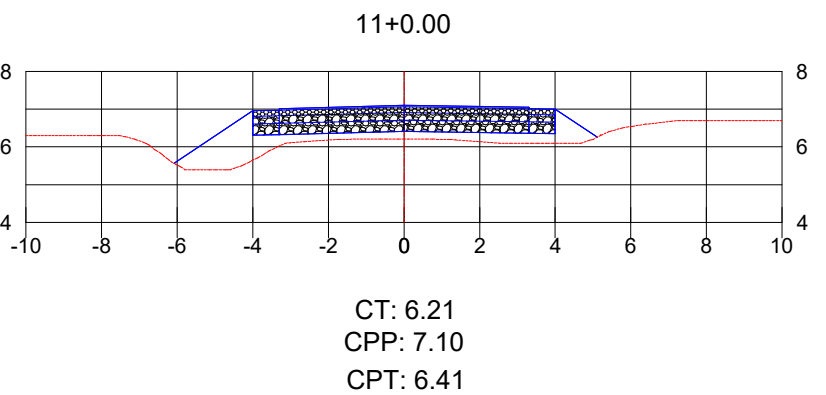
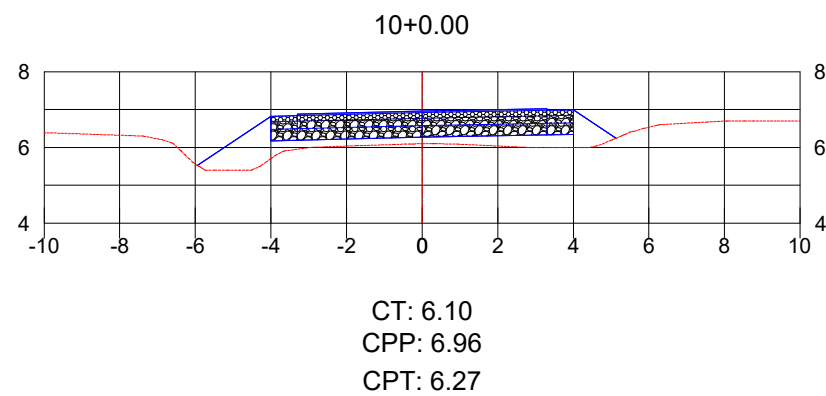
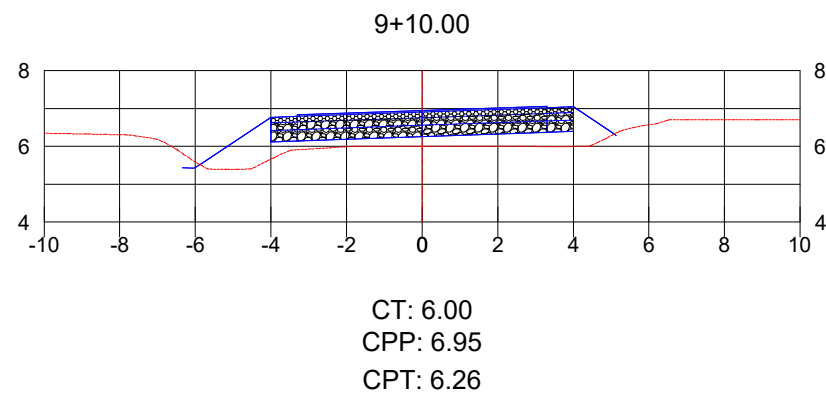
Prancha:
01/13

Obra
R.M. JOÃO FRANCELINO MACHADO

Conteúdo
SEÇÕES DE TERRAPLENAGEM

Local
R.M. JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC

A3 (297mm X 420mm)



ESCALA: 1/200



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

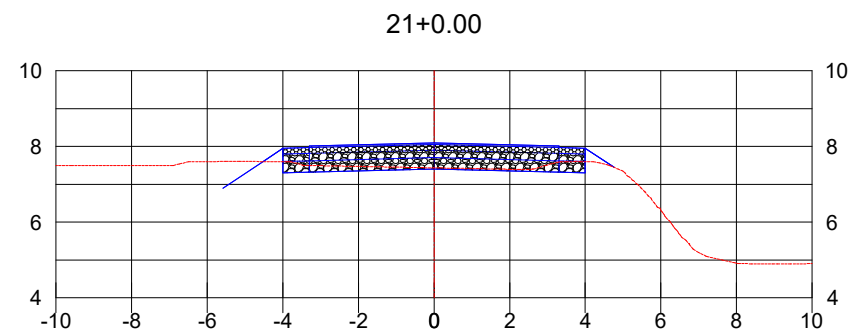
Prancha:
02/13

Obra
R.M. JOÃO FRANCELINO MACHADO

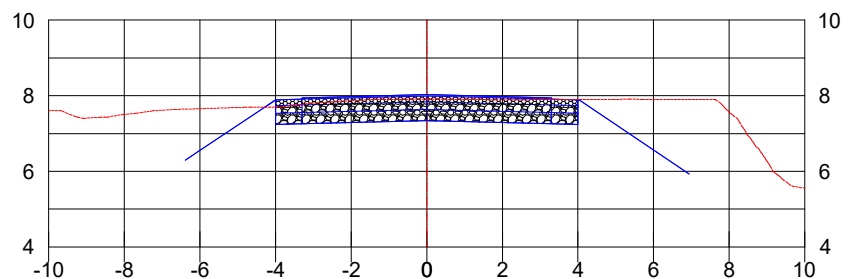
Conteúdo
SEÇÕES DE TERRAPLENAGEM

Local
R.M. JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC

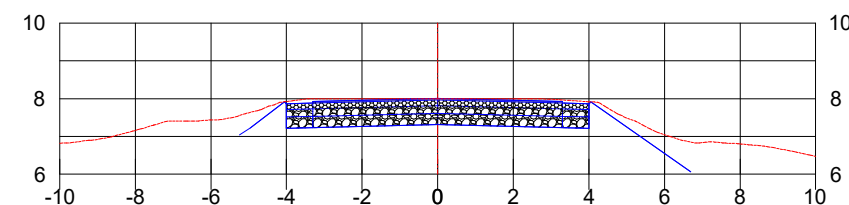
A3 (297mm X 420mm)



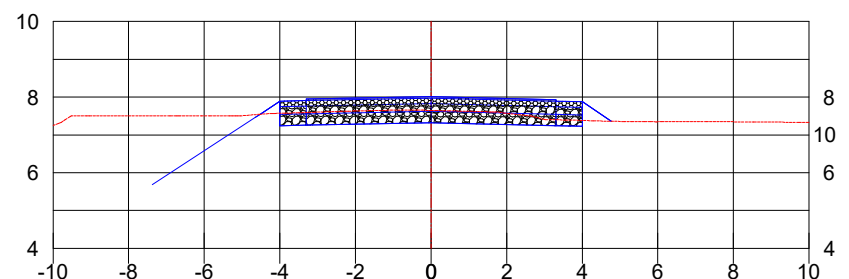
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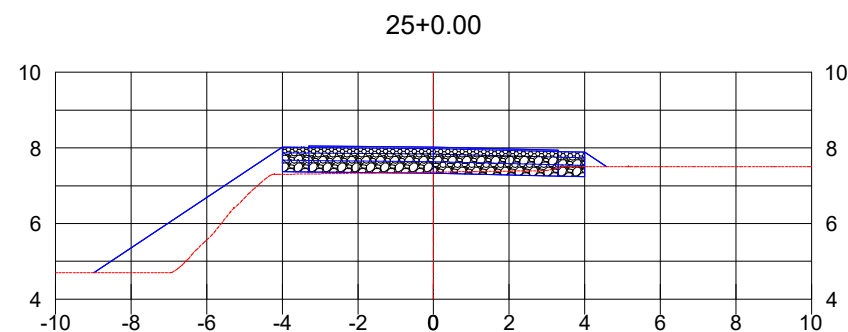
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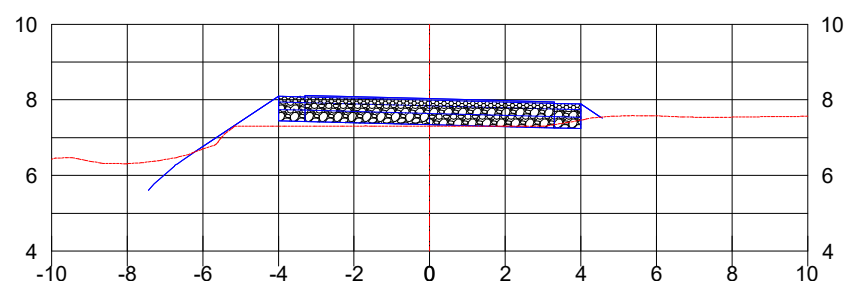
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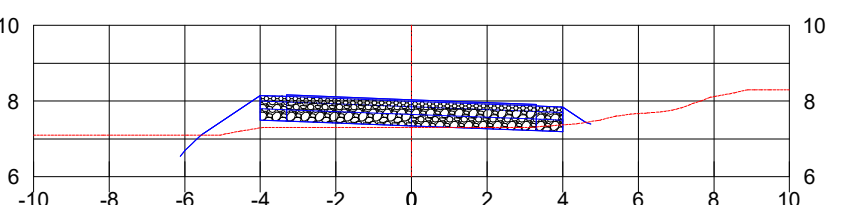
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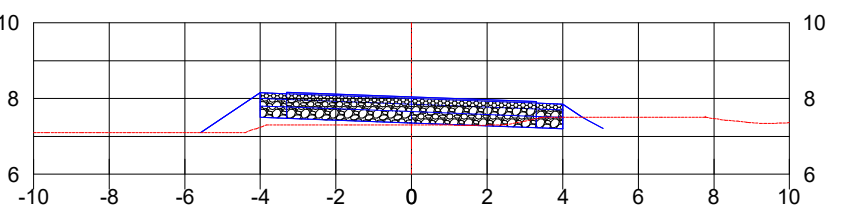
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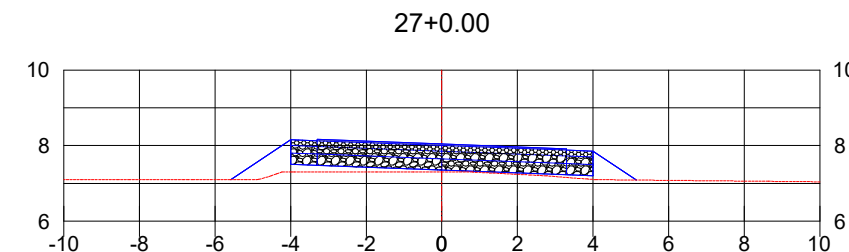
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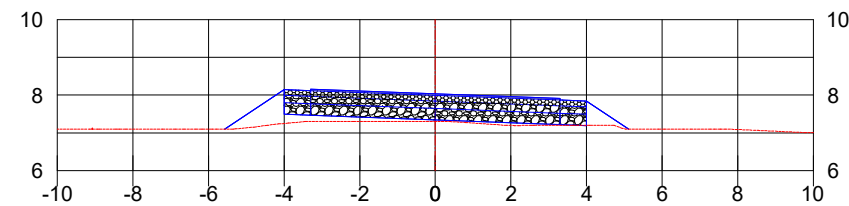
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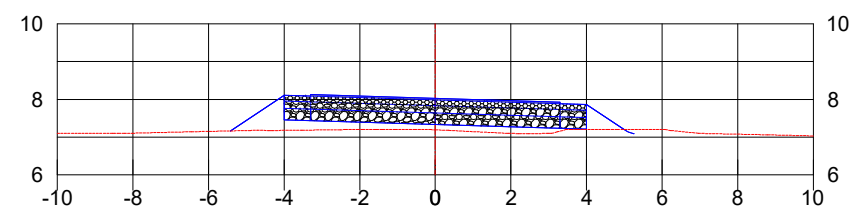
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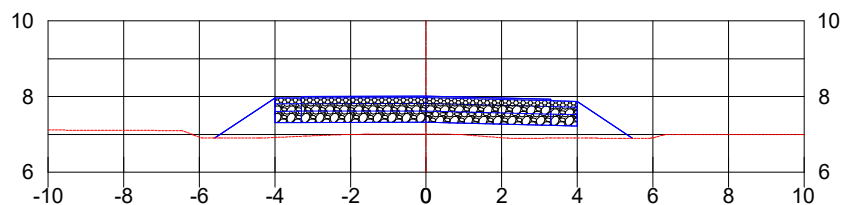
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CPT: 7.35
27+10.00



CT: 7.30
CPP: 8.04
CPT: 7.35



CT: 7.19
CPP: 8.03
CPT: 7.34
29+0.00



CT: 7.01
CPP: 8.01
CPT: 7.32

ESCALA: 1/200



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

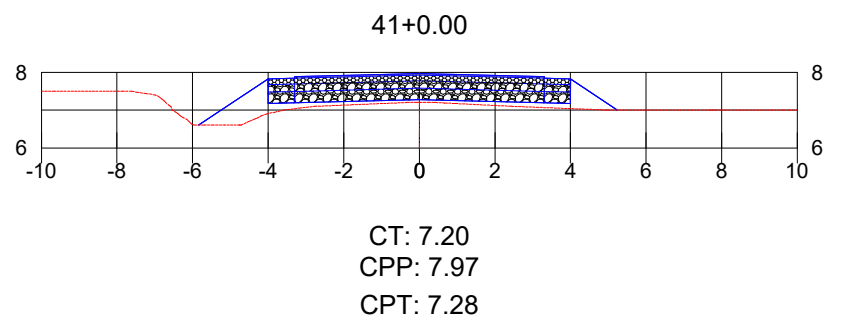
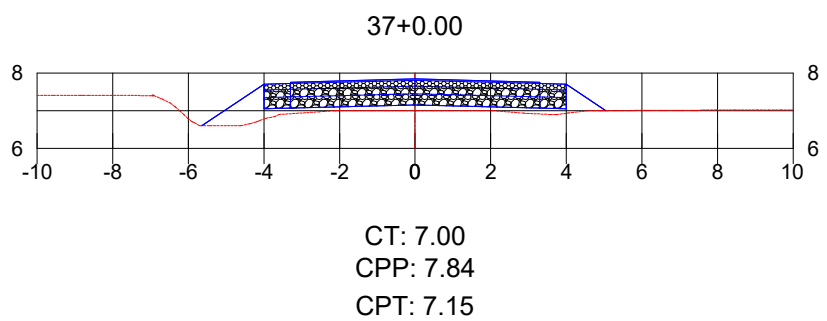
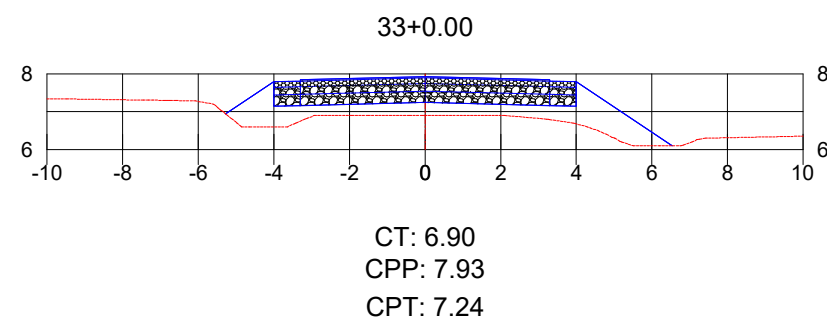
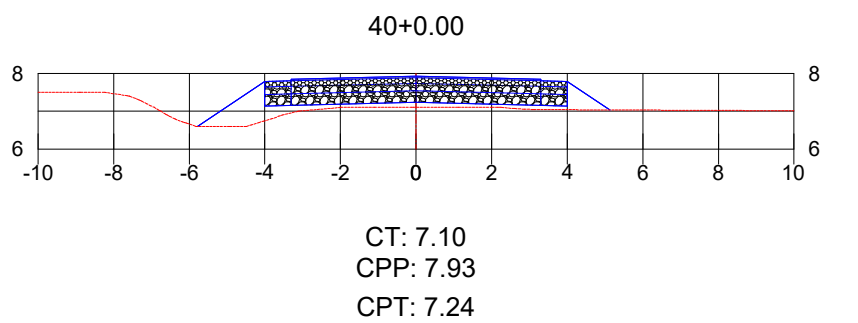
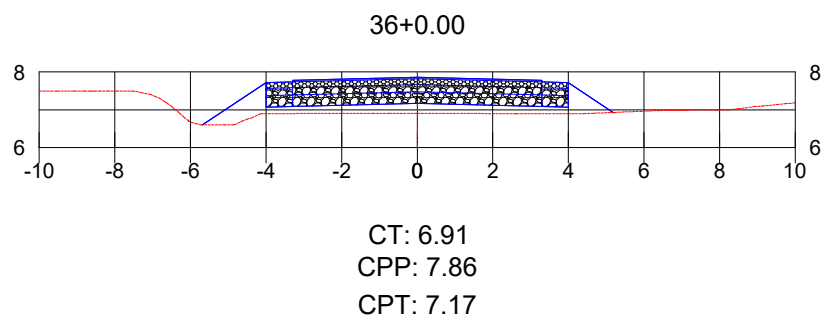
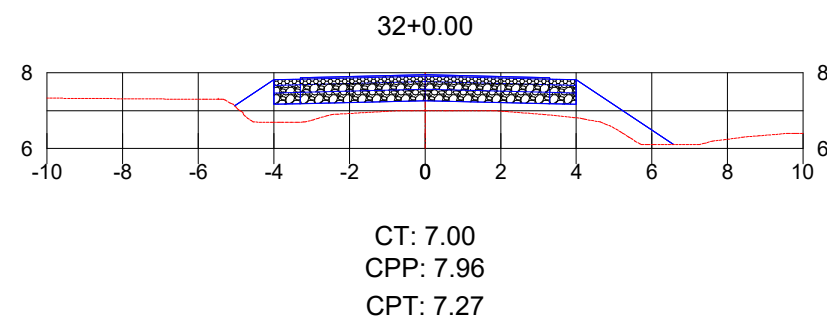
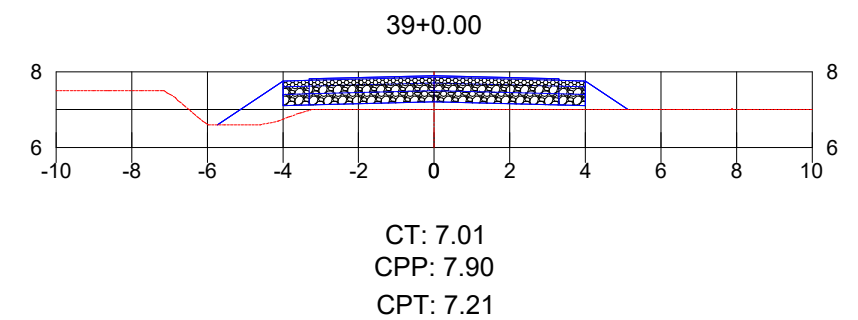
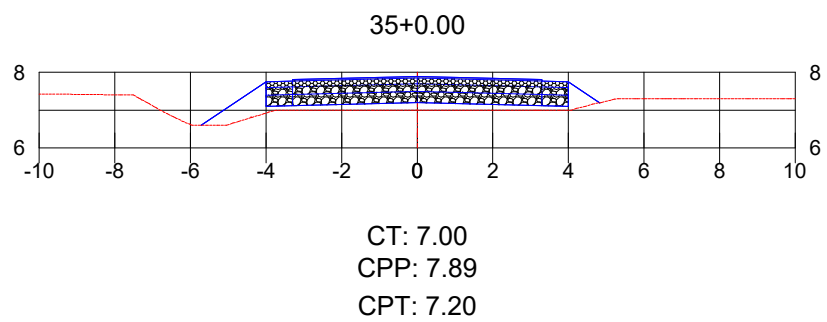
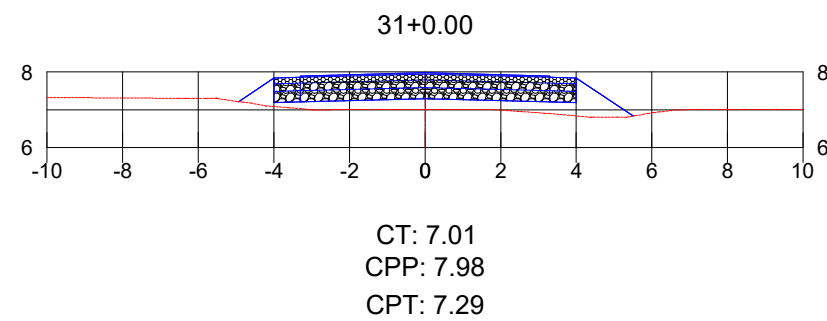
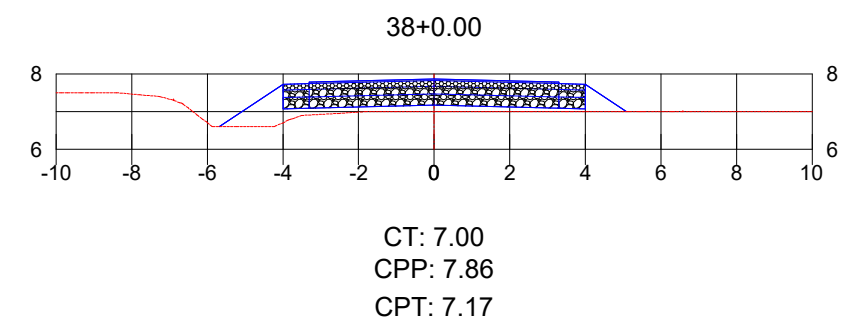
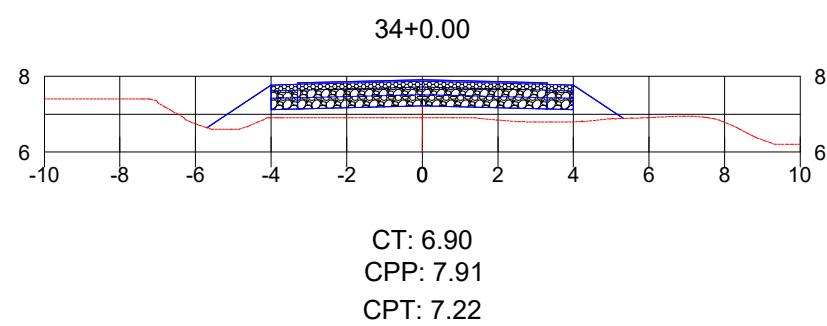
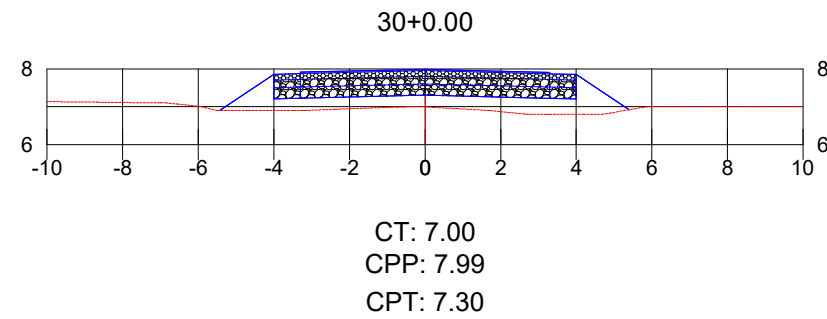
Prancha:
03/13

Obra
R.M. JOÃO FRANCELINO MACHADO

Conteúdo
SEÇÕES DE TERRAPLENAGEM

Local
R.M. JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC

A3 (297mm X 420mm)



ESCALA: 1/200

IDEALIZE
ARQUITETURA E ENGENHARIA
CREA/SC 169873-0



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

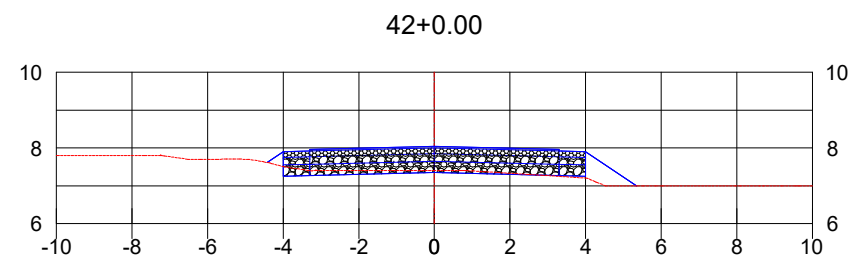
Prancha:
04/13

Obra
R.M. JOÃO FRANCELINO MACHADO

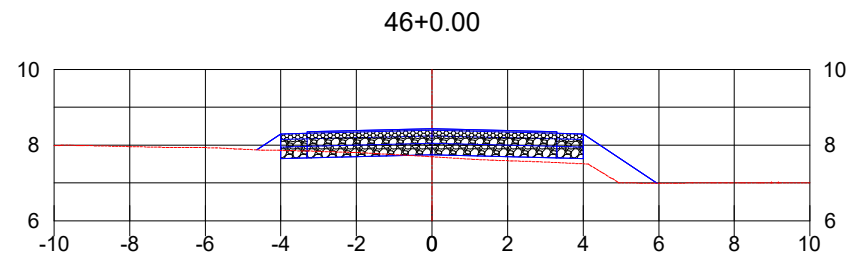
Conteúdo
SEÇÕES DE TERRAPLENAGEM

Local
R.M. JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC

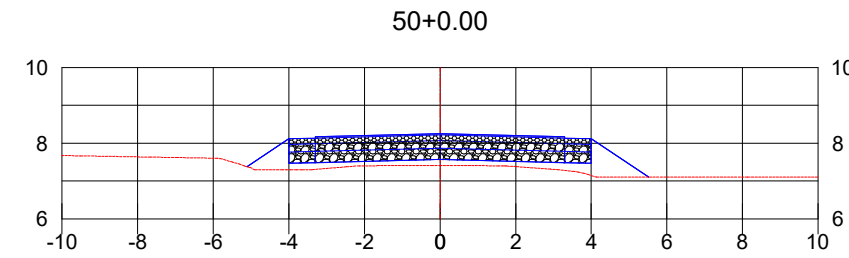
A3 (297mm X 420mm)



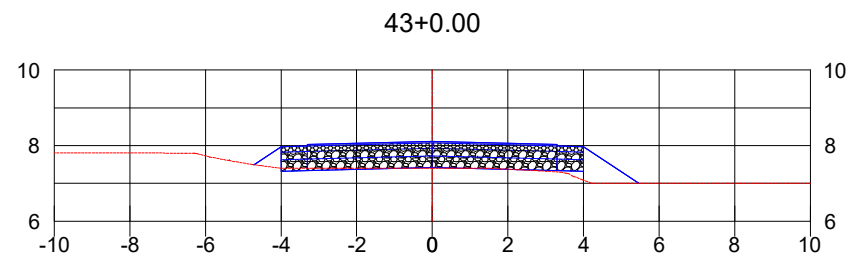
CT: 7.40
CPP: 8.04
CPT: 7.35



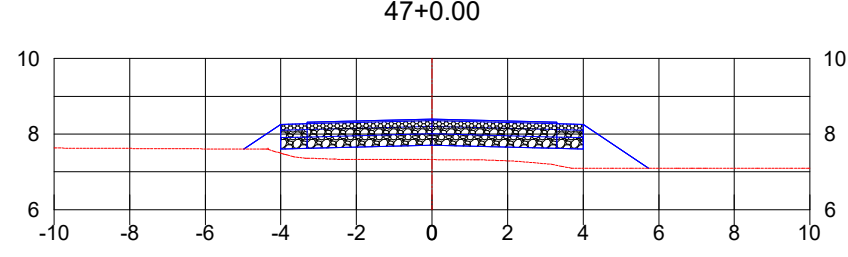
CT: 7.69
CPP: 8.44
CPT: 7.75



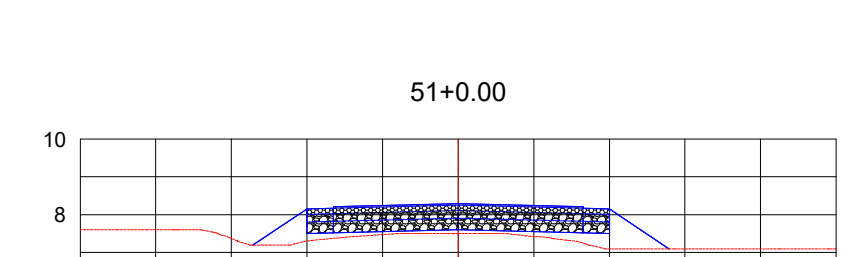
CT: 7.41
CPP: 8.26
CPT: 7.57



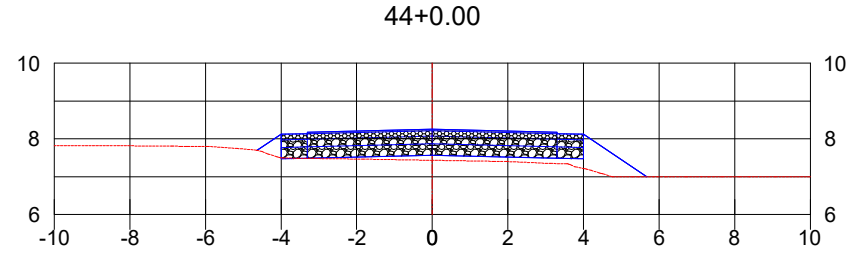
CT: 7.40
CPP: 8.11
CPT: 7.42



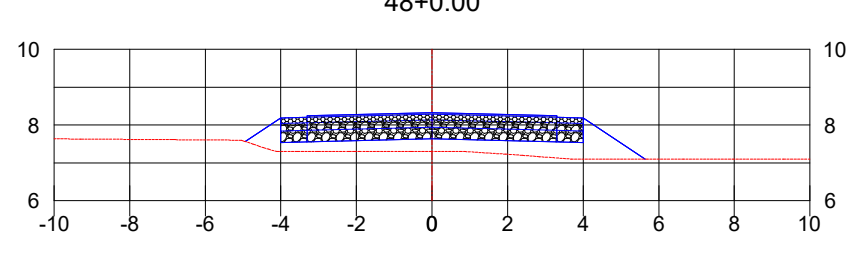
CT: 7.33
CPP: 8.40
CPT: 7.71



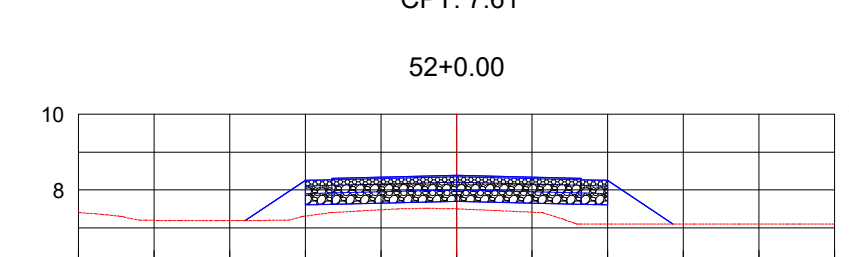
CT: 7.51
CPP: 8.30
CPT: 7.61



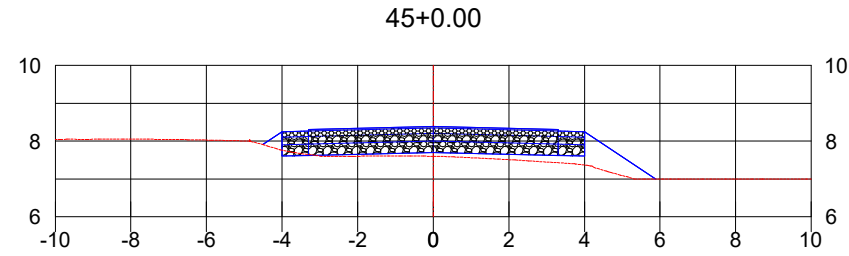
CT: 7.43
CPP: 8.26
CPT: 7.57



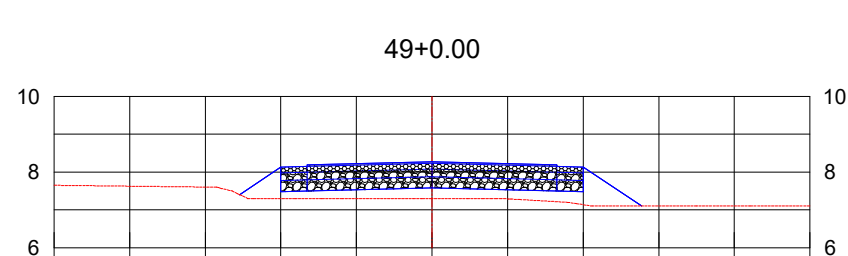
CT: 7.30
CPP: 8.33
CPT: 7.64



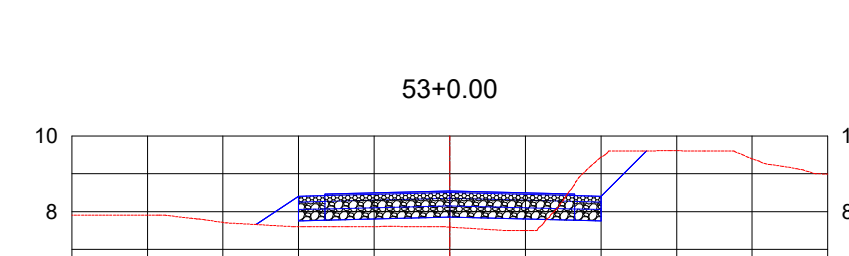
CT: 7.50
CPP: 8.39
CPT: 7.70



CT: 7.60
CPP: 8.39
CPT: 7.70



CT: 7.30
CPP: 8.27
CPT: 7.58



CT: 7.59
CPP: 8.54
CPT: 7.85

ESCALA: 1/200

IDEALIZE
ARQUITETURA E ENGENHARIA
CREA/SC 169873-0



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

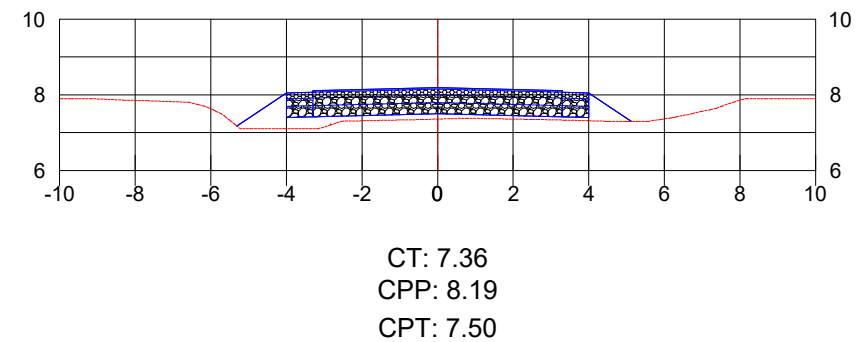
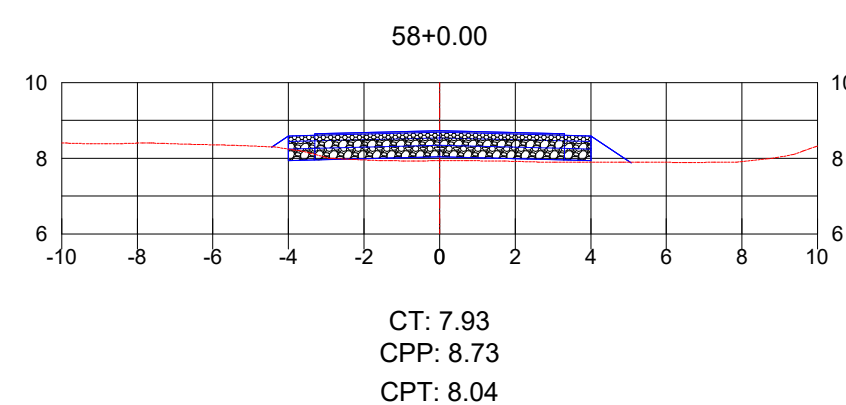
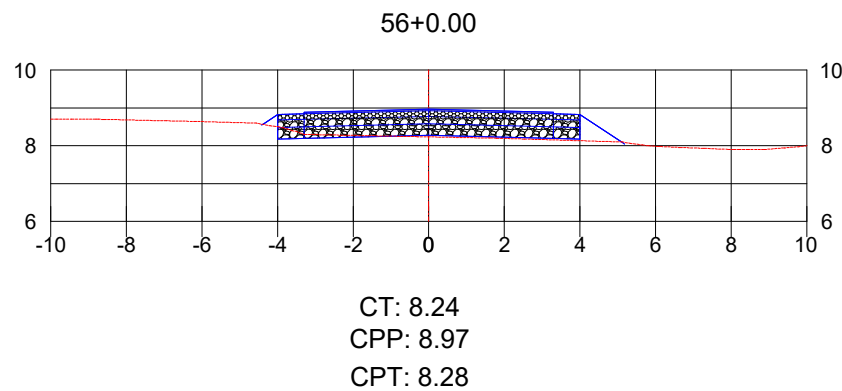
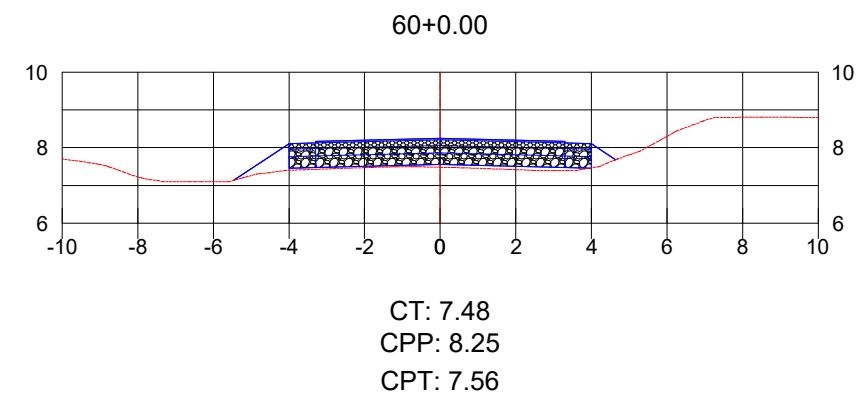
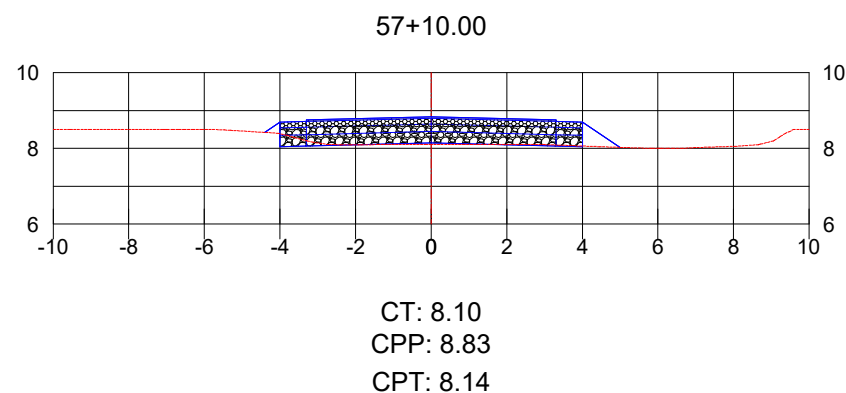
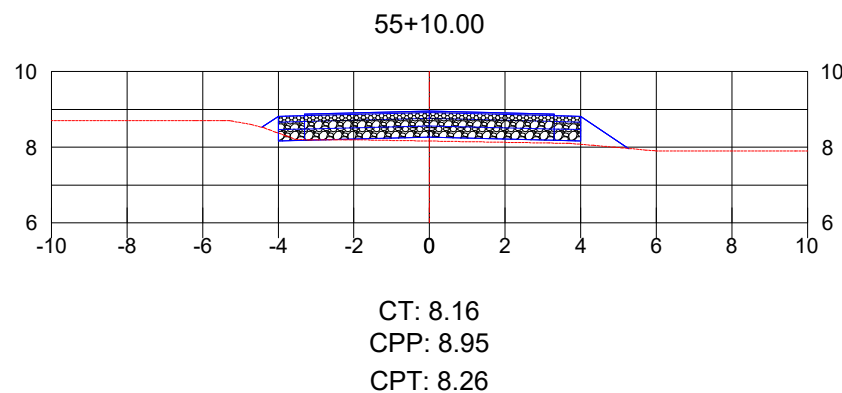
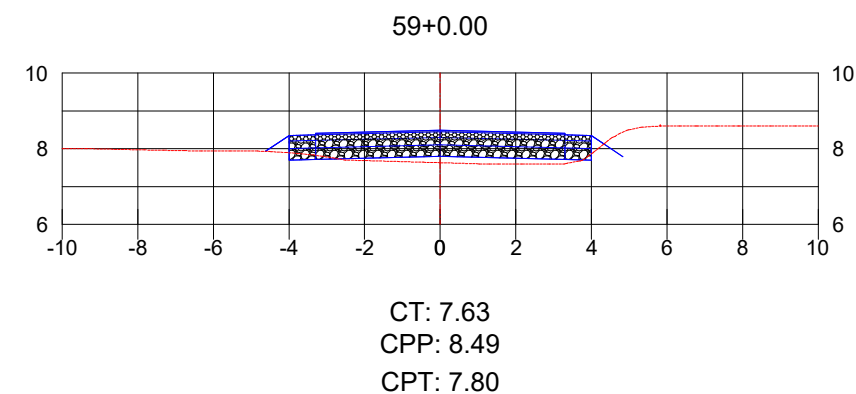
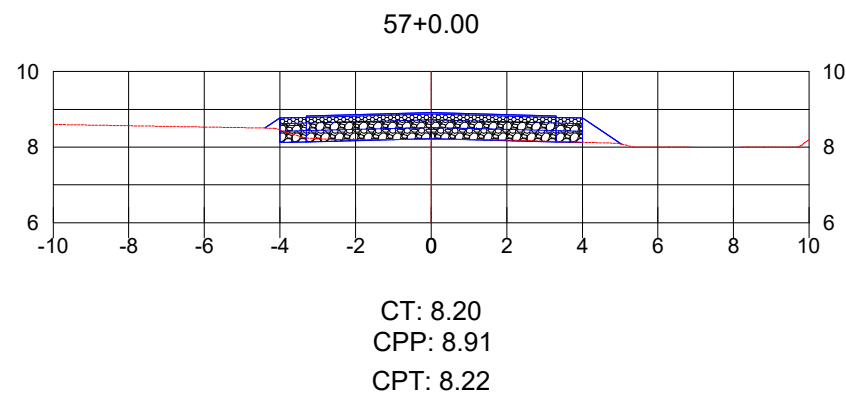
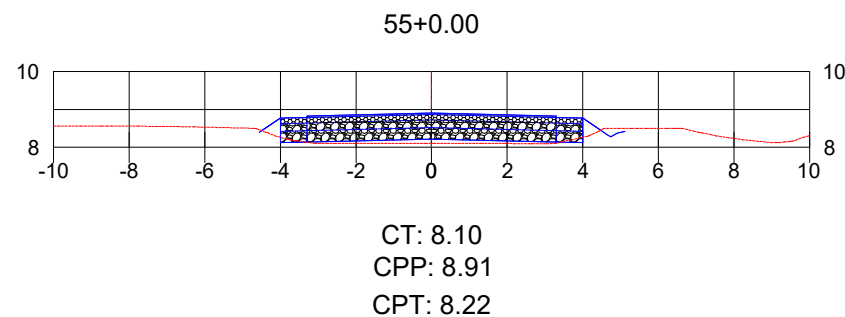
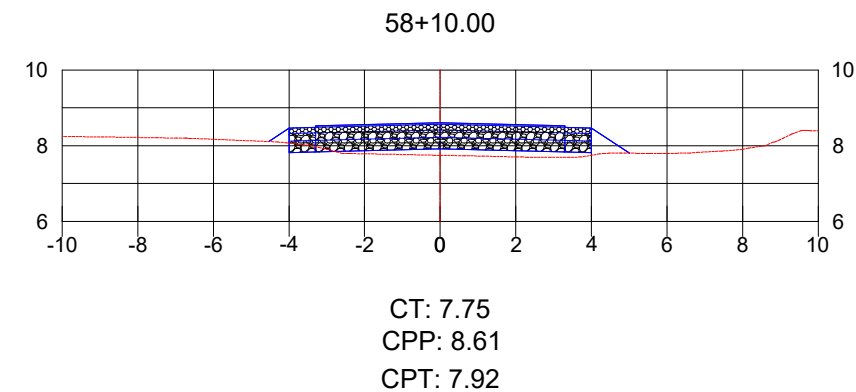
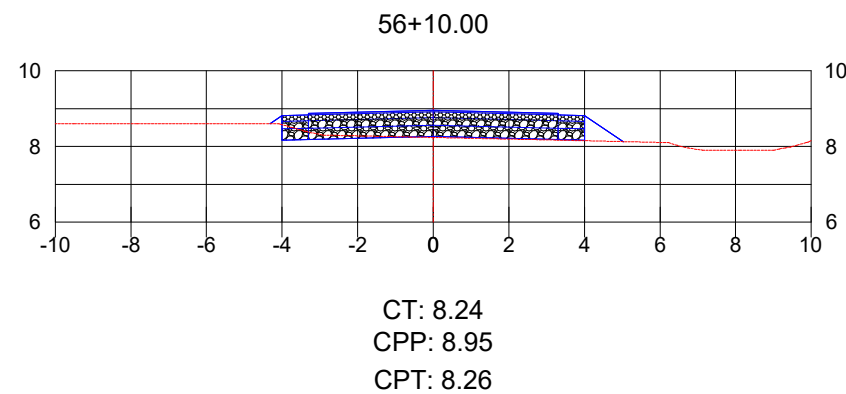
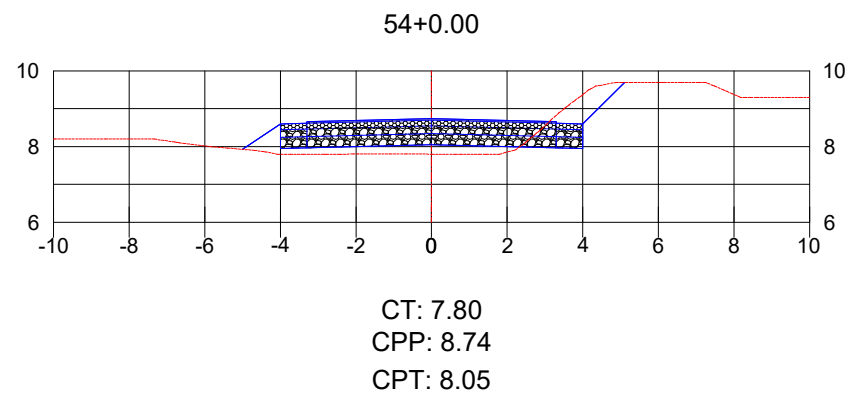
Prancha:
05/14

Obra
R.M. JOÃO FRANCELINO MACHADO

Conteúdo
SEÇÕES DE TERRAPLENAGEM

Local
R.M. JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC

A3 (297mm X 420mm)



ESCALA: 1/200

IDEALIZE
ARQUITETURA E ENGENHARIA
CREA/SC 169873-0



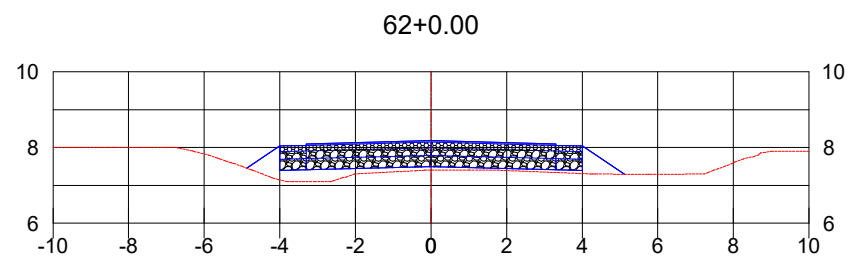
Autor do projeto:
BRUNO FRIGO PASINI
ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
06/13

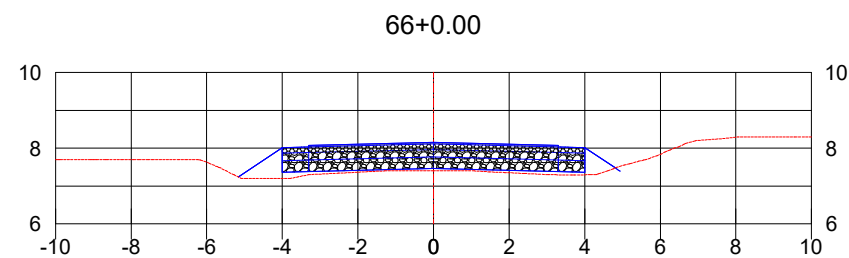
Obra
R.M. JOÃO FRANCELINO MACHADO

Conteúdo
SEÇÕES DE TERRAPLENAGEM

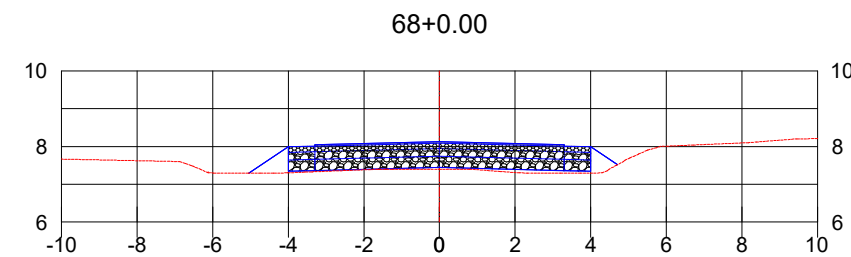
Local
R.M. JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC



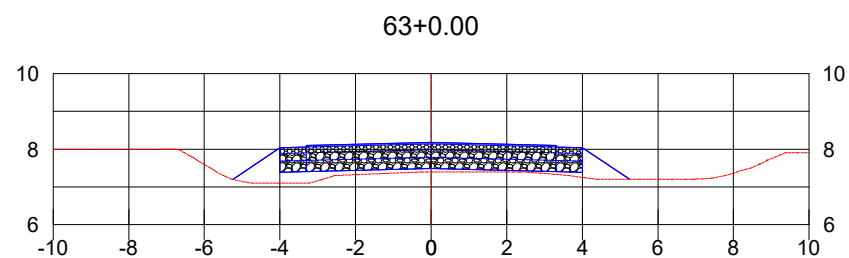
CT: 7.40
CPP: 8.18
CPT: 7.49



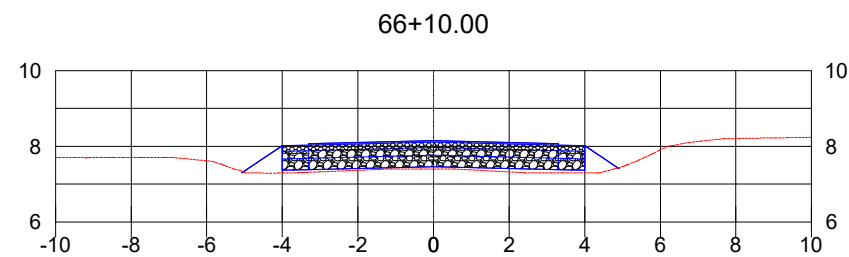
CT: 7.40
CPP: 8.16
CPT: 7.47



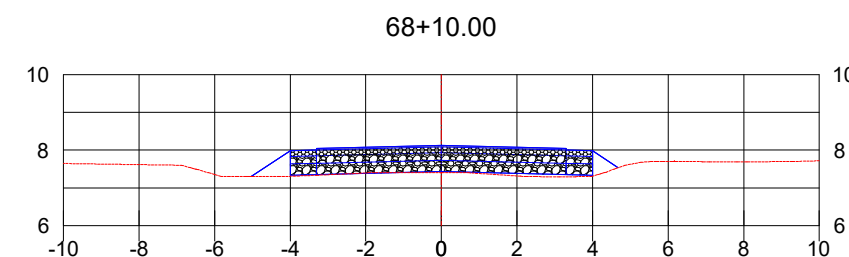
CT: 7.40
CPP: 8.13
CPT: 7.44



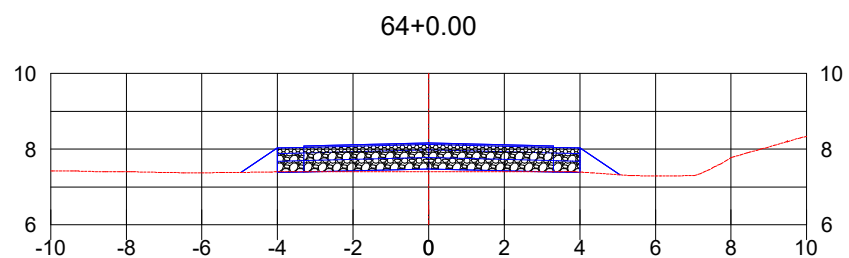
CT: 7.40
CPP: 8.17
CPT: 7.48



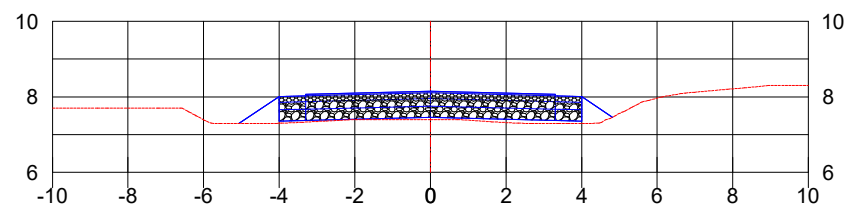
CT: 7.40
CPP: 8.15
CPT: 7.46



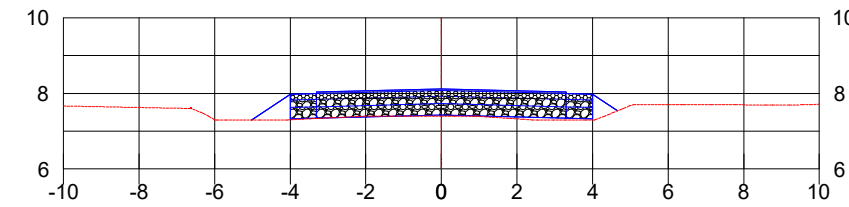
CT: 7.40
CPP: 8.13
CPT: 7.44



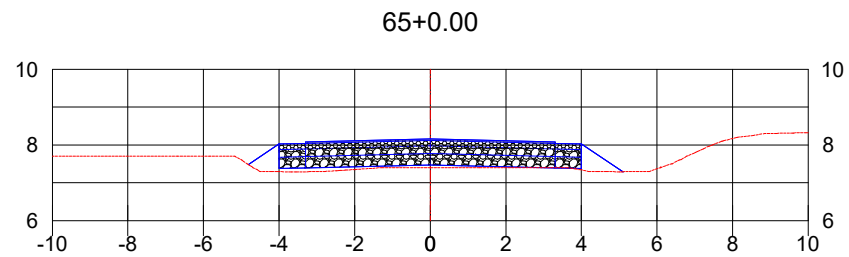
CT: 7.40
CPP: 8.17
CPT: 7.48



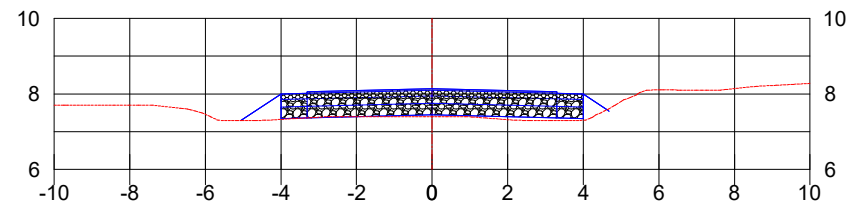
CT: 7.40
CPP: 8.15
CPT: 7.46



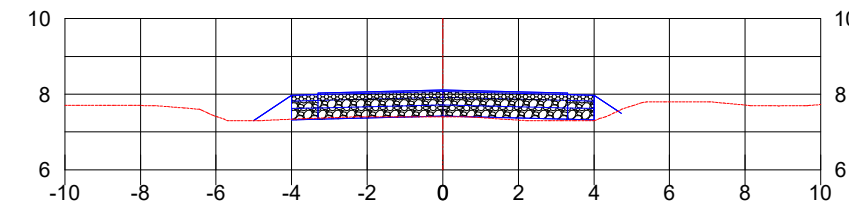
CT: 7.40
CPP: 8.12
CPT: 7.43



CT: 7.40
CPP: 8.16
CPT: 7.47



CT: 7.40
CPP: 8.14
CPT: 7.45



CT: 7.40
CPP: 8.11
CPT: 7.42

ESCALA: 1/200

IDEALIZE
ARQUITETURA E ENGENHARIA
CREA/SC 169873-0



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

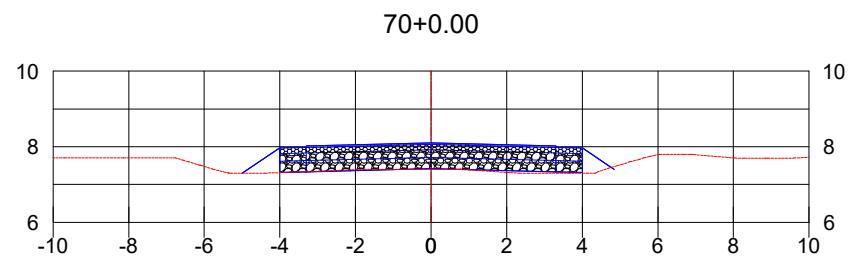
Prancha:
07/13

Obra
R.M. JOÃO FRANCELINO MACHADO

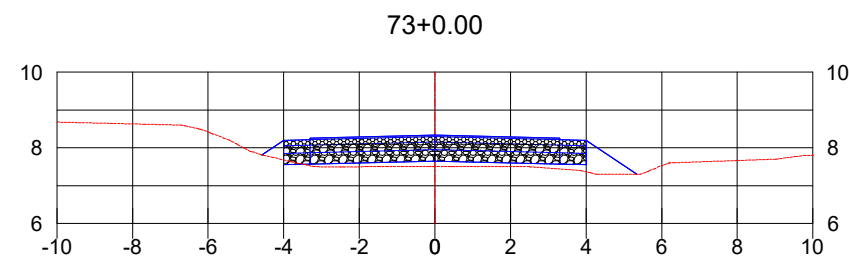
Conteúdo
SEÇÕES DE TERRAPLENAGEM

Local
R.M. JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC

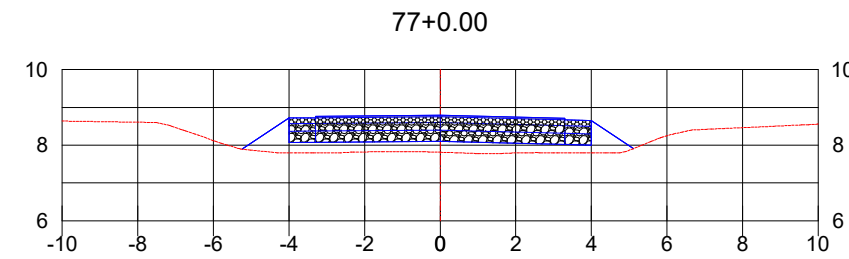
A3 (297mm X 420mm)



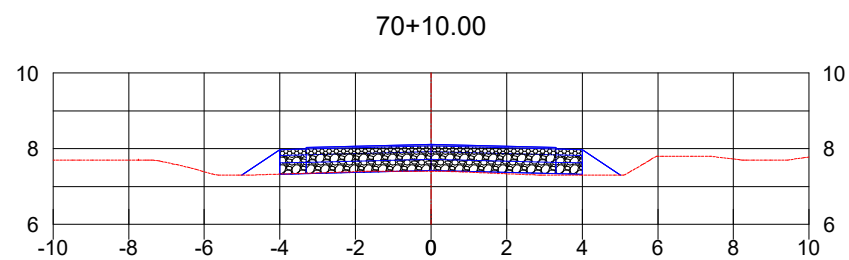
CT: 7.40
CPP: 8.11
CPT: 7.42



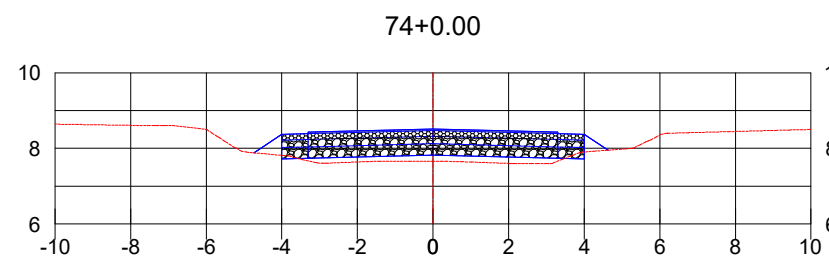
CT: 7.50
CPP: 8.34
CPT: 7.65



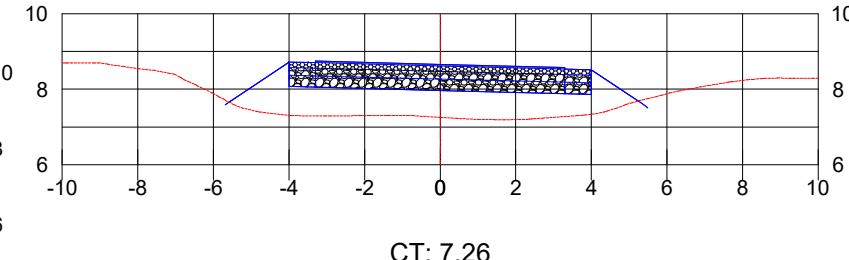
CT: 7.81
CPP: 8.79
CPT: 8.10



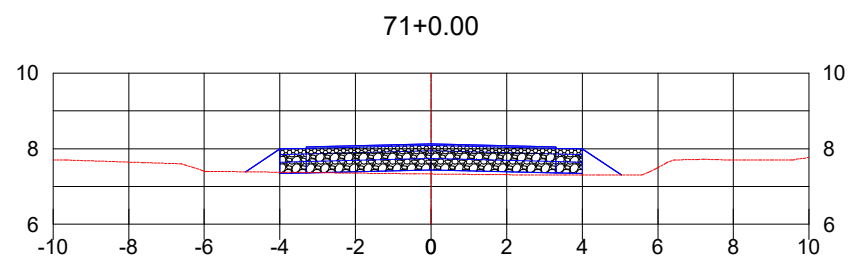
CT: 7.40
CPP: 8.11
CPT: 7.42



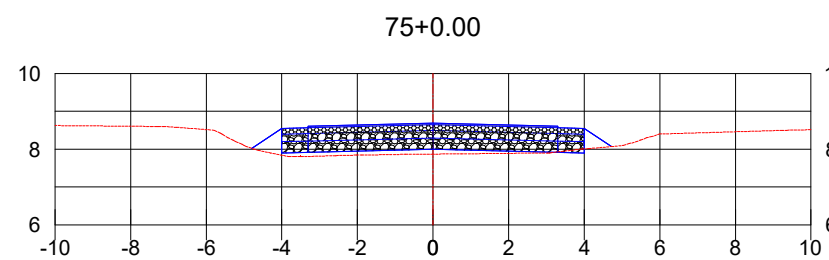
CT: 7.66
CPP: 8.51
CPT: 7.82



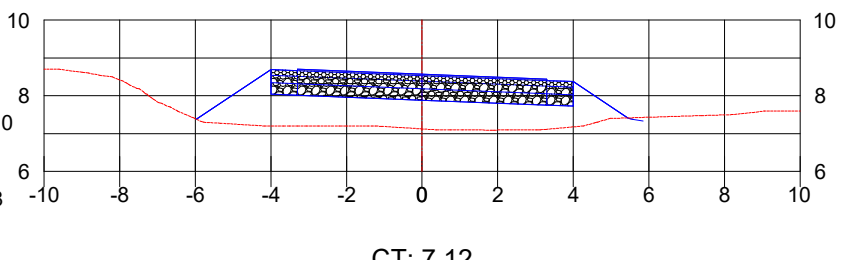
CT: 7.26
CPP: 8.66
CPT: 7.97



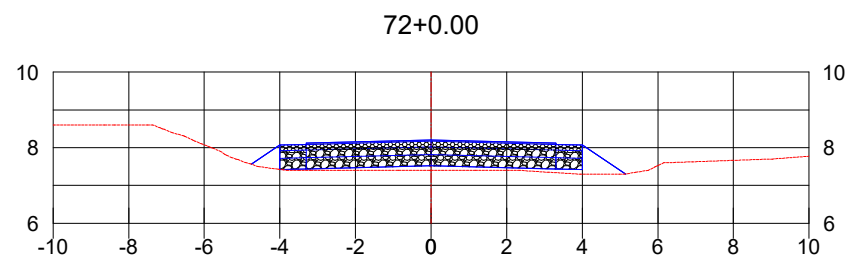
CT: 7.33
CPP: 8.13
CPT: 7.44



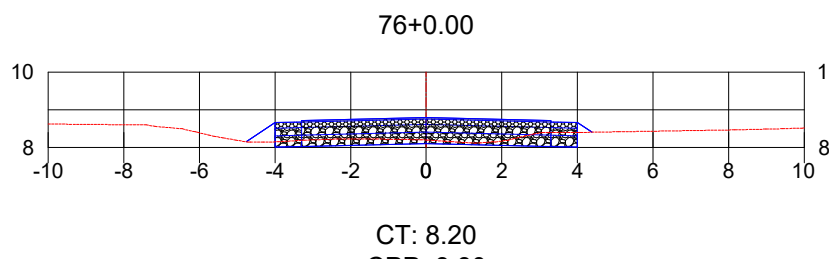
CT: 7.87
CPP: 8.69
CPT: 8.00



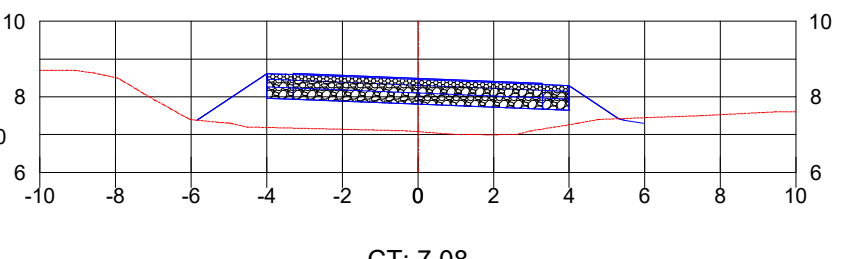
CT: 7.12
CPP: 8.58
CPT: 7.89



CT: 7.40
CPP: 8.21
CPT: 7.52

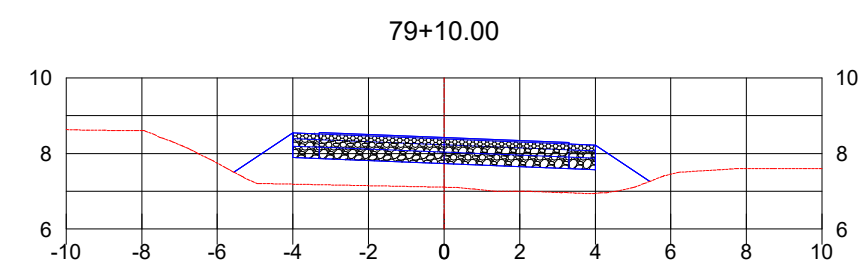


CT: 8.20
CPP: 8.80
CPT: 8.11

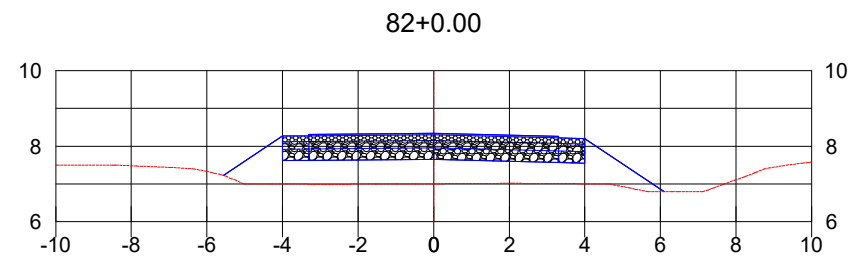


CT: 7.08
CPP: 8.49
CPT: 7.80

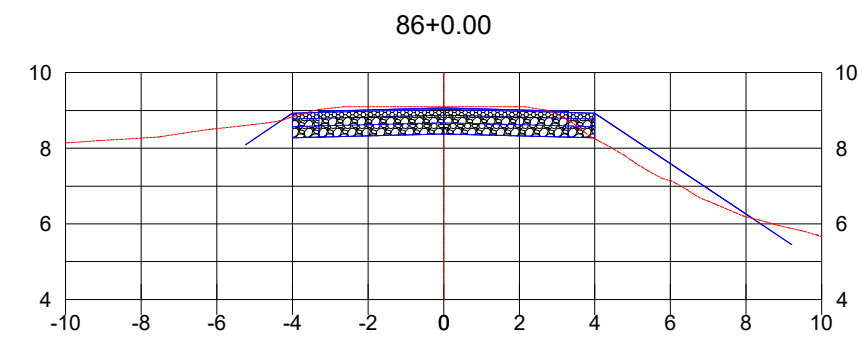
ESCALA: 1/200



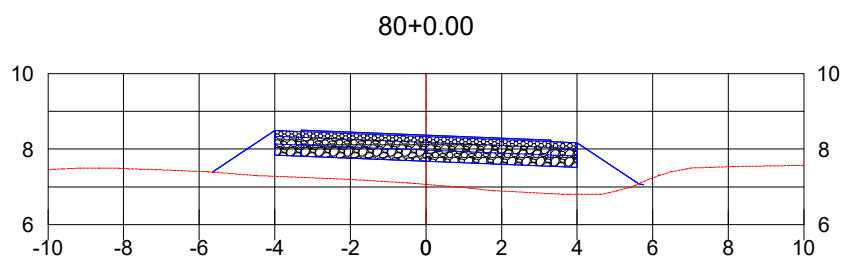
CT: 7.11
CPP: 8.42
CPT: 7.73



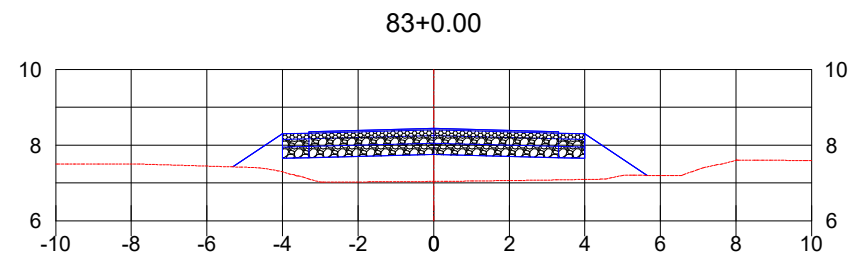
CT: 7.00
CPP: 8.34
CPT: 7.65



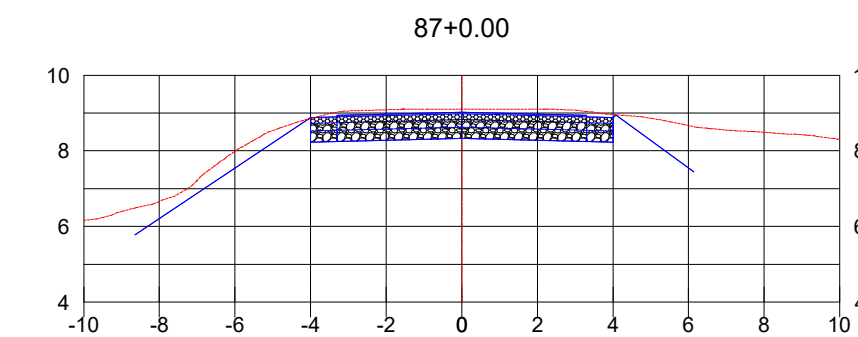
CT: 9.10
CPP: 9.06
CPT: 8.37



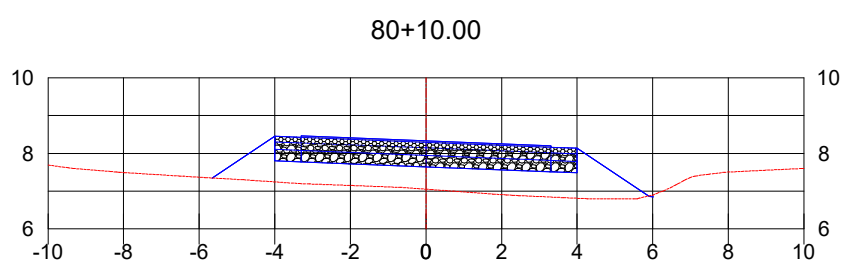
CT: 7.07
CPP: 8.37
CPT: 7.68



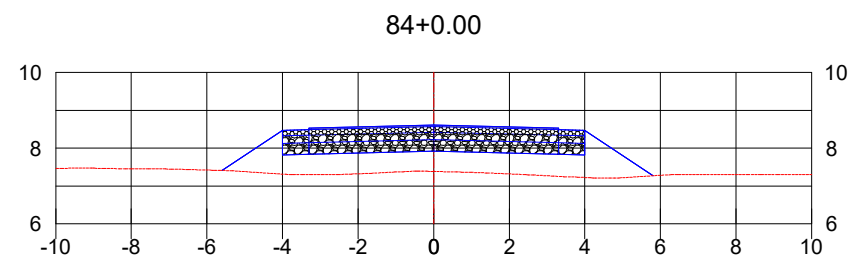
CT: 7.04
CPP: 8.44
CPT: 7.75



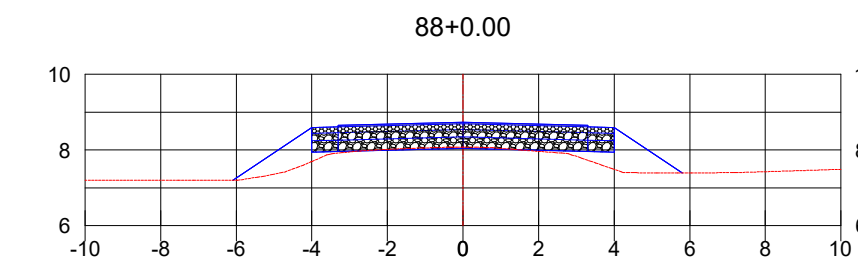
CT: 9.10
CPP: 9.02
CPT: 8.33



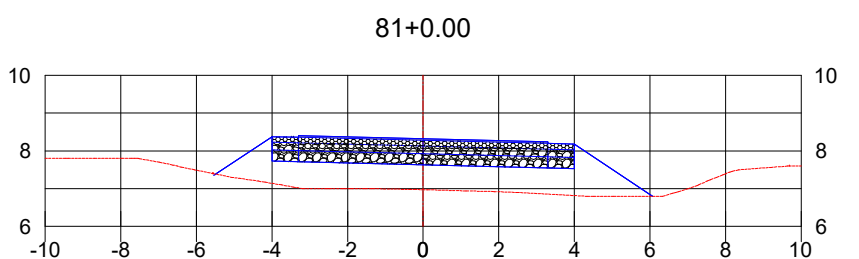
CT: 7.05
CPP: 8.33
CPT: 7.64



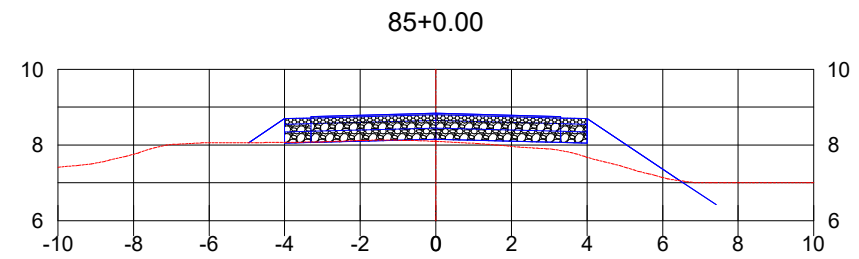
CT: 7.38
CPP: 8.61
CPT: 7.92



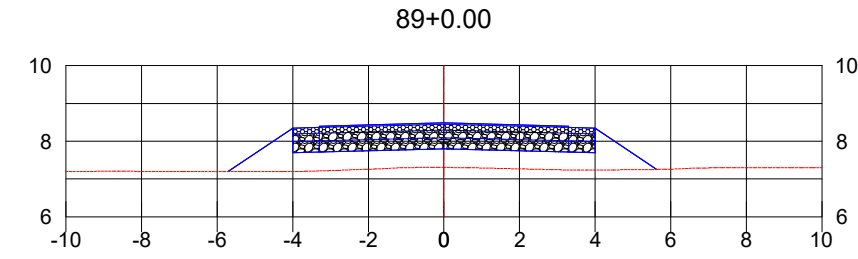
CT: 8.07
CPP: 8.73
CPT: 8.04



CT: 6.97
CPP: 8.32
CPT: 7.63



CT: 8.10
CPP: 8.84
CPT: 8.15



CT: 7.31
CPP: 8.48
CPT: 7.79

ESCALA: 1/200



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

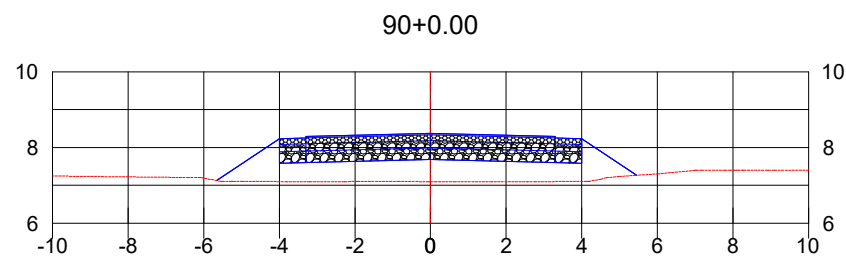
Prancha:
09/13

Obra
R.M. JOÃO FRANCELINO MACHADO

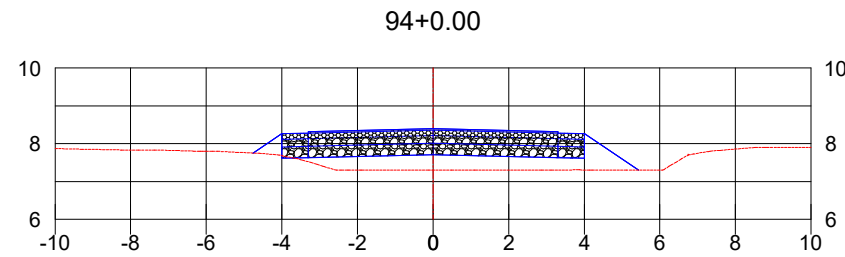
Conteúdo
SEÇÕES DE TERRAPLENAGEM

Local
R.M. JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC

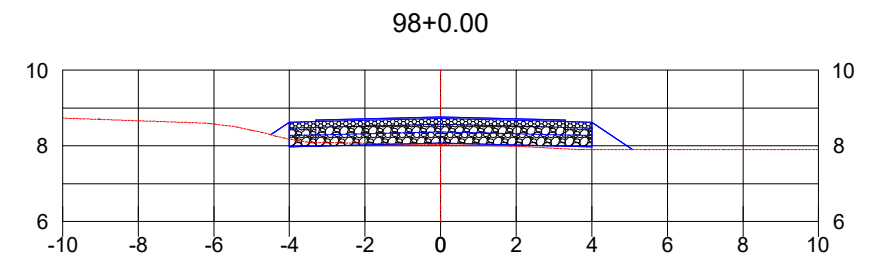
A3 (297mm X 420mm)



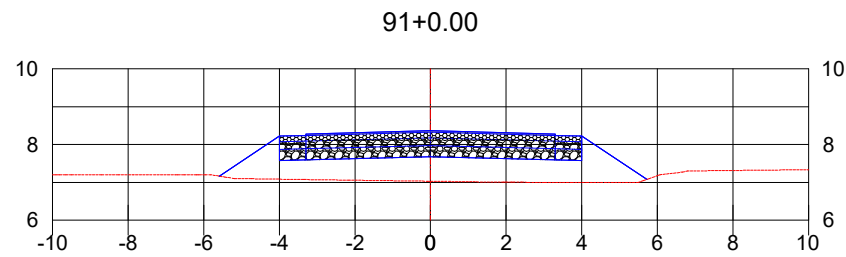
CT: 7.10
CPP: 8.37
CPT: 7.68



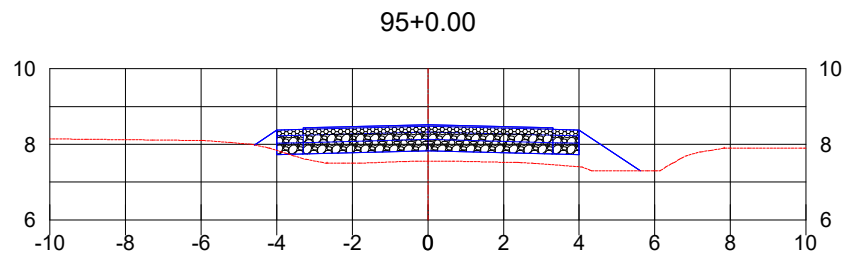
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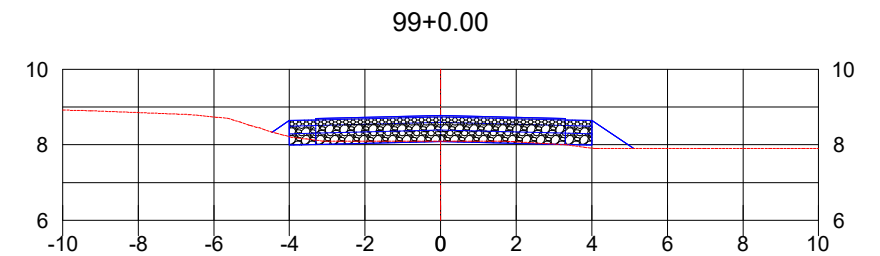
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CPT: 8.07



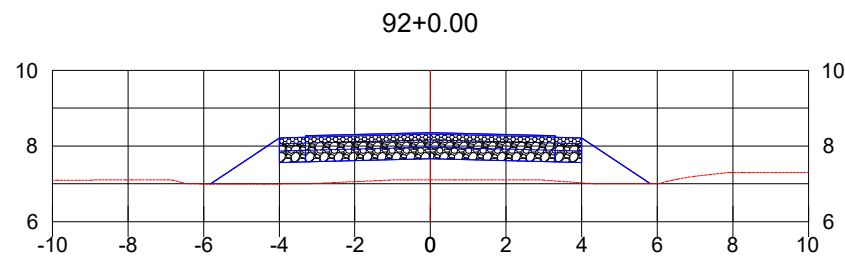
CT: 7.03
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CPT: 7.67



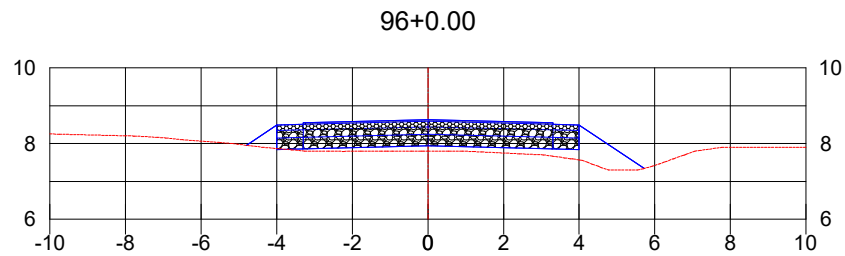
CT: 7.55
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CPT: 7.83



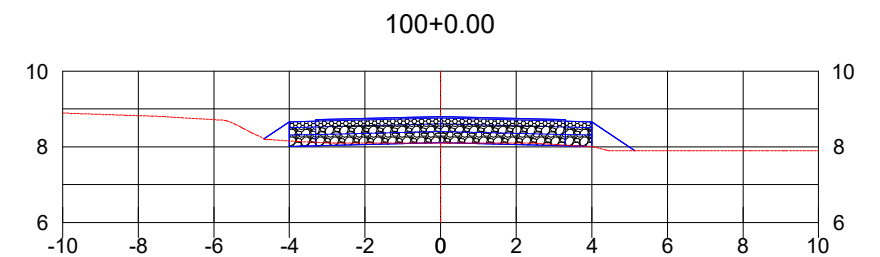
CT: 8.10
CPP: 8.78
CPT: 8.09



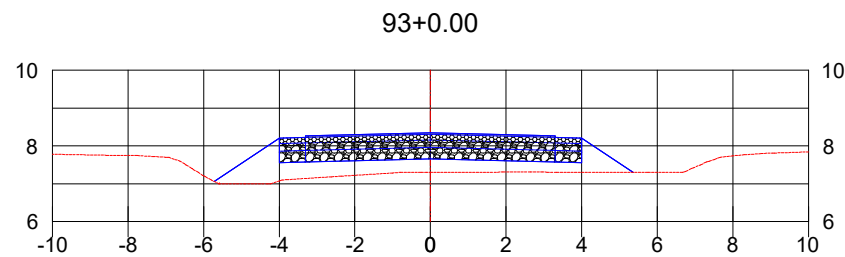
CT: 7.10
CPP: 8.35
CPT: 7.66



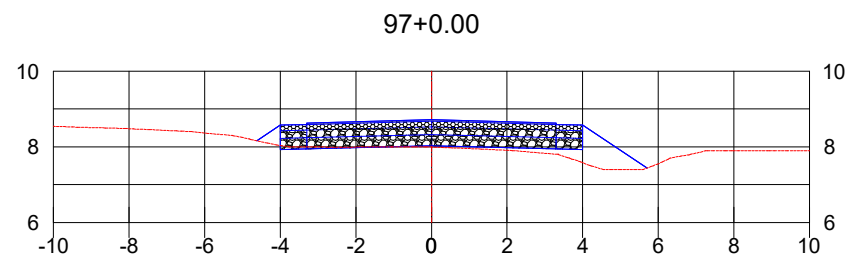
CT: 7.80
CPP: 8.63
CPT: 7.94



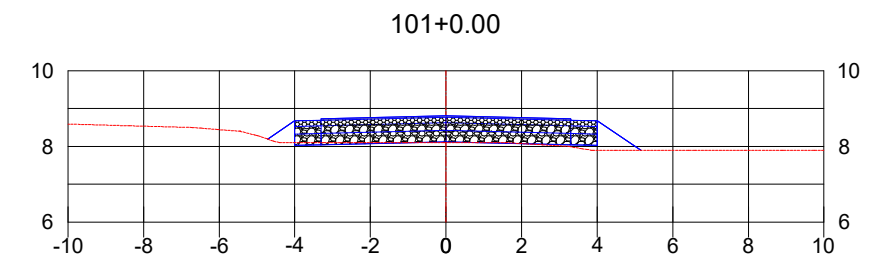
CT: 8.10
CPP: 8.80
CPT: 8.11



CT: 7.30
CPP: 8.35
CPT: 7.66



CT: 7.99
CPP: 8.71
CPT: 8.02



CT: 8.10
CPP: 8.81
CPT: 8.12

ESCALA: 1/200

IDEALIZE
ARQUITETURA E ENGENHARIA
CREA/SC 169873-0



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

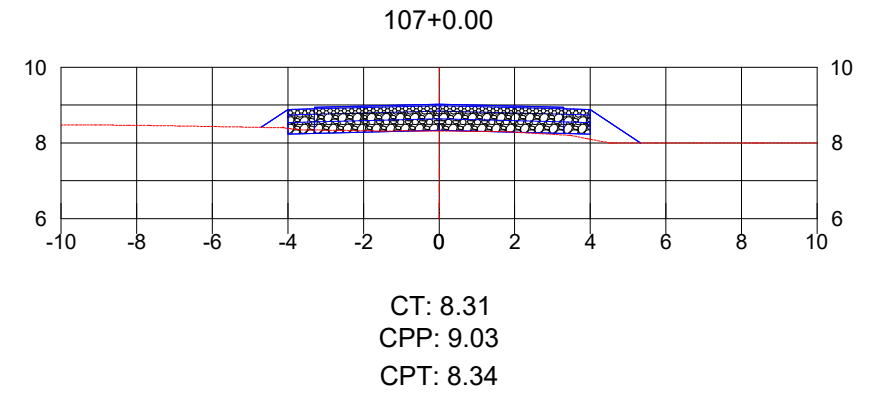
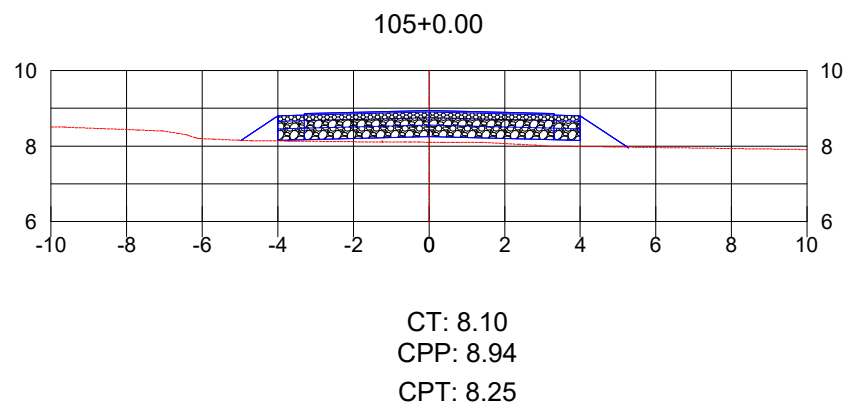
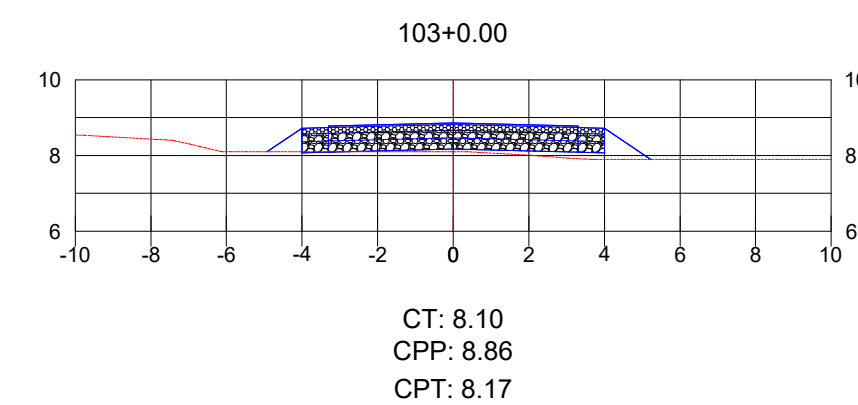
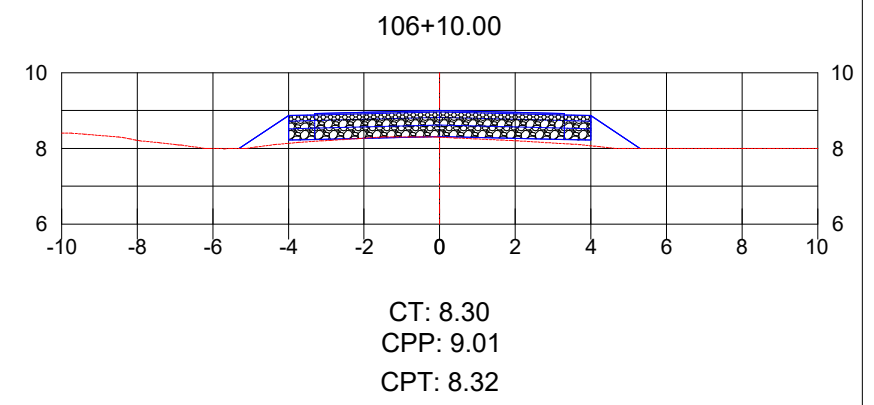
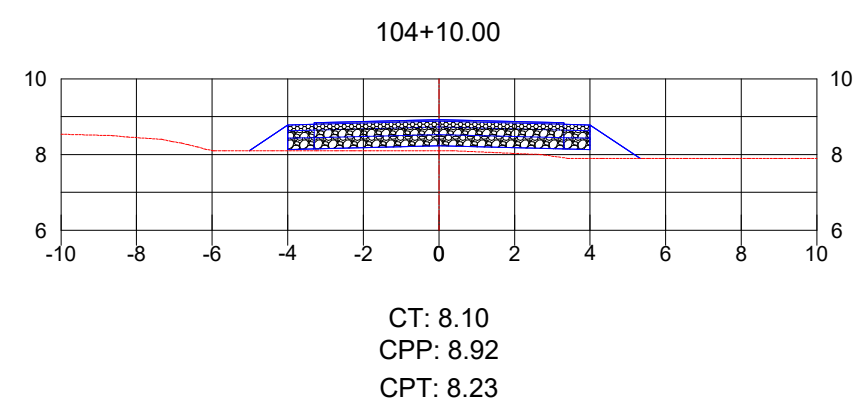
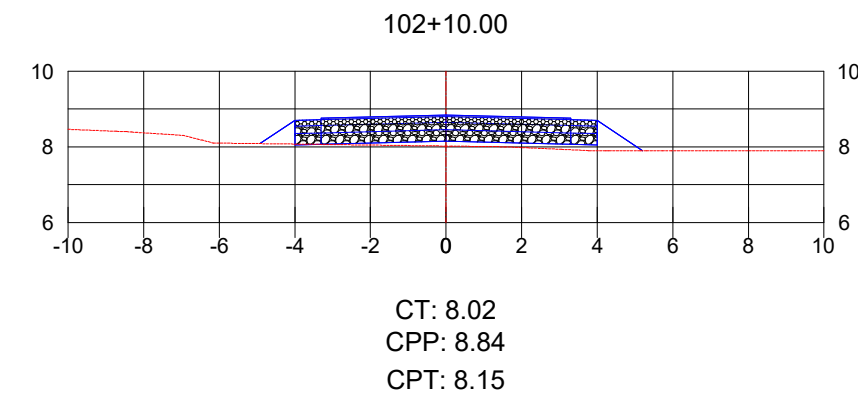
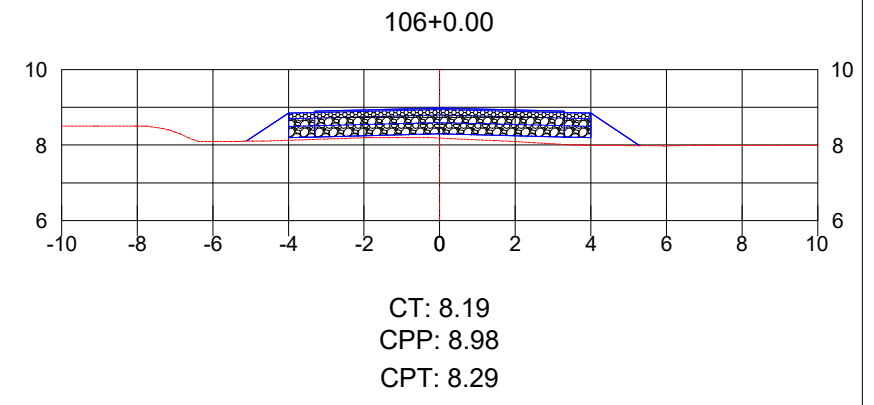
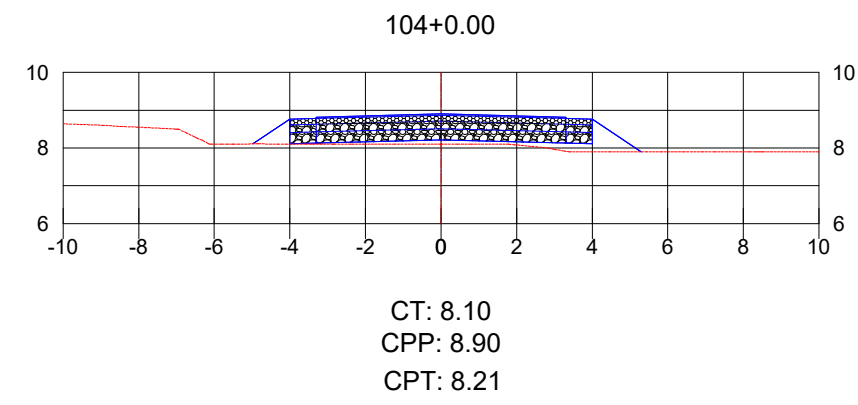
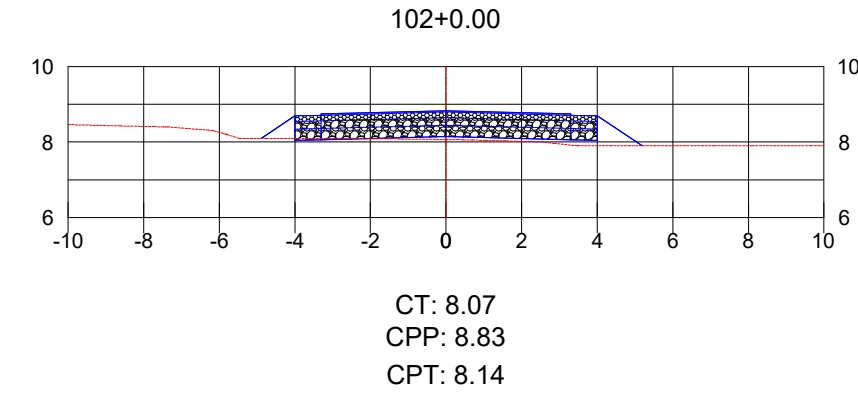
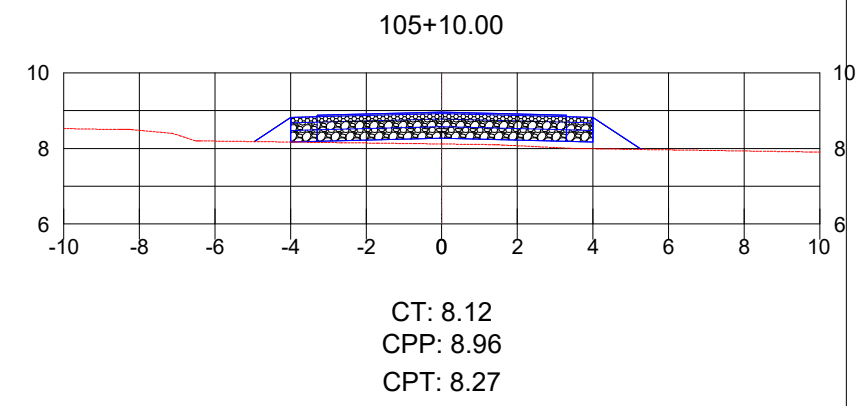
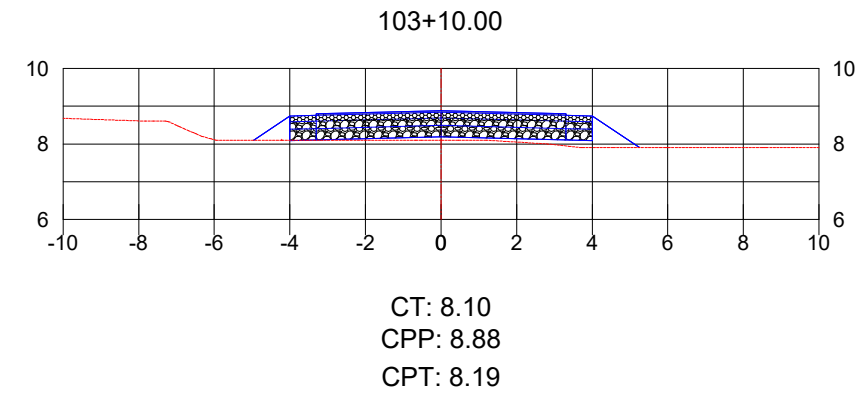
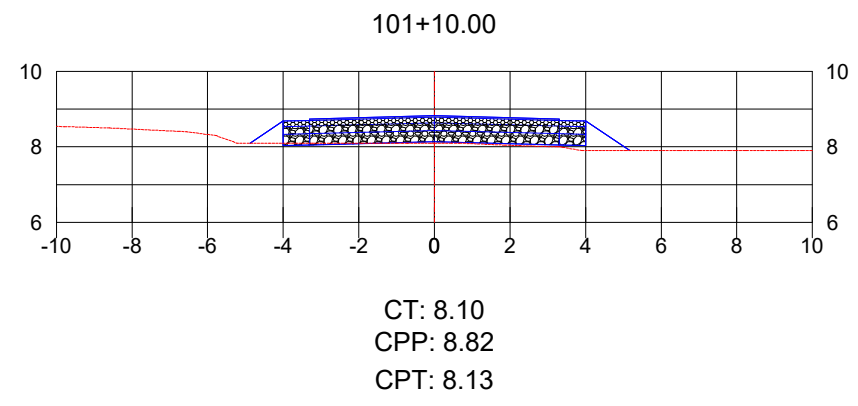
Prancha:
10/13

Obra
R.M. JOÃO FRANCELINO MACHADO

Conteúdo
SEÇÕES DE TERRAPLENAGEM

Local
R.M. JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINA/SC

A3 (297mm X 420mm)



ESCALA: 1/200



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

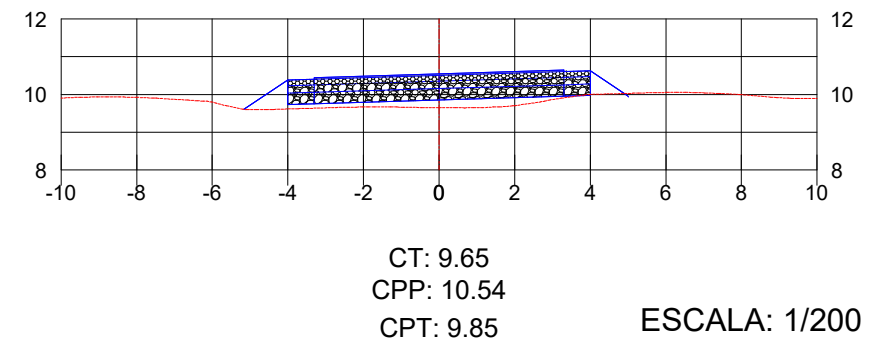
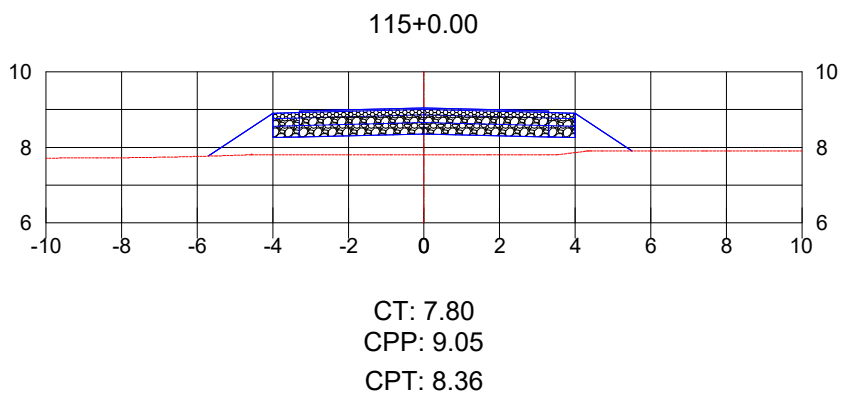
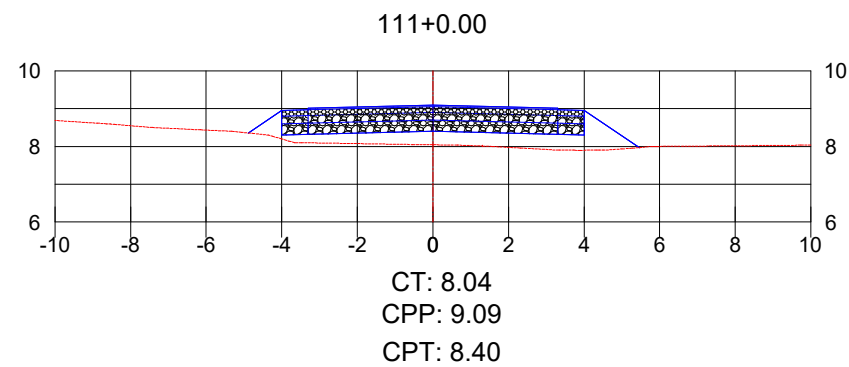
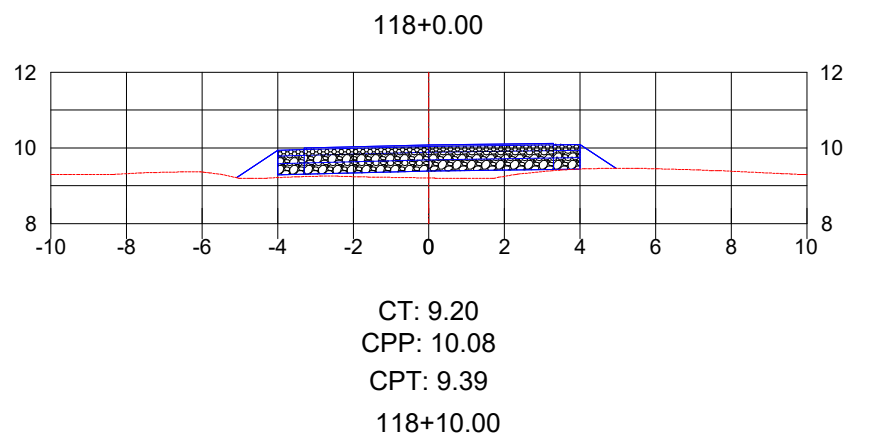
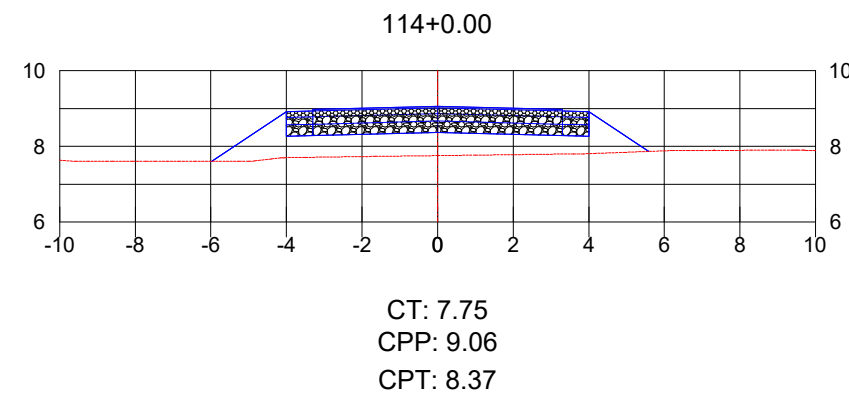
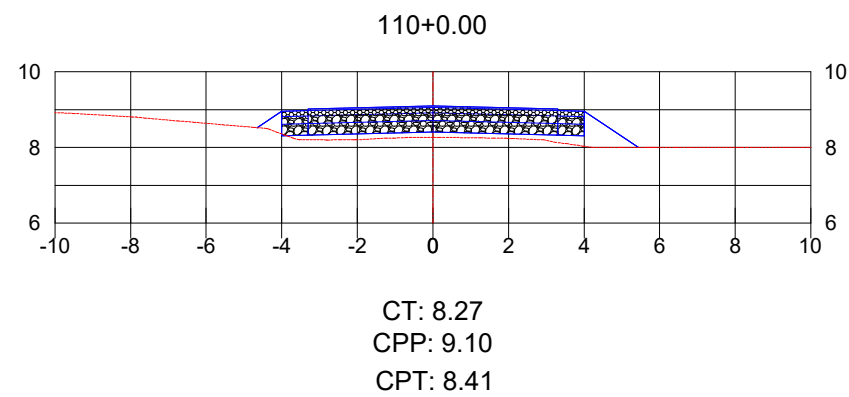
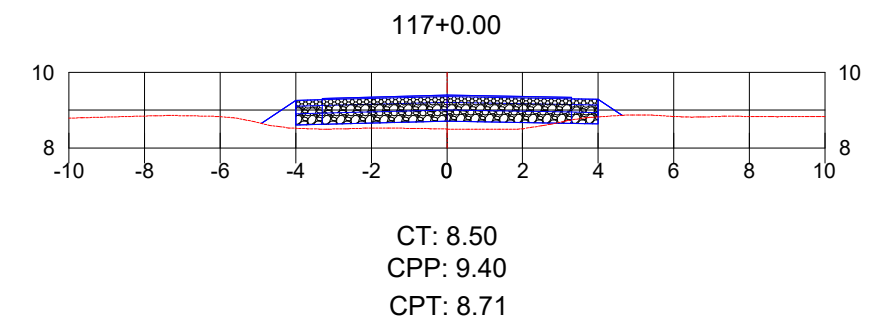
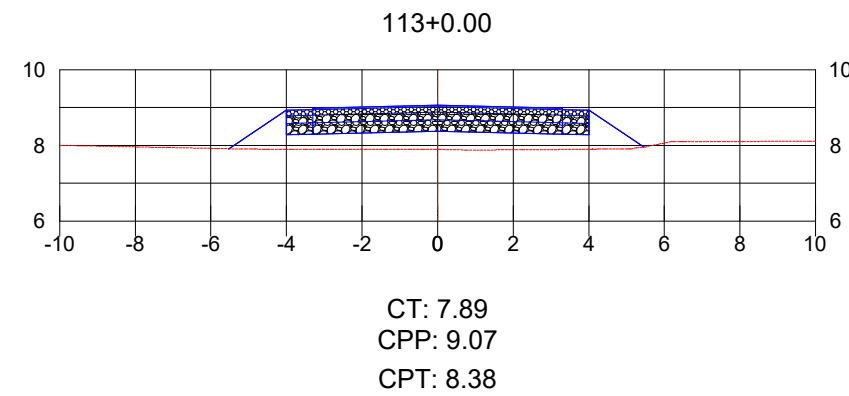
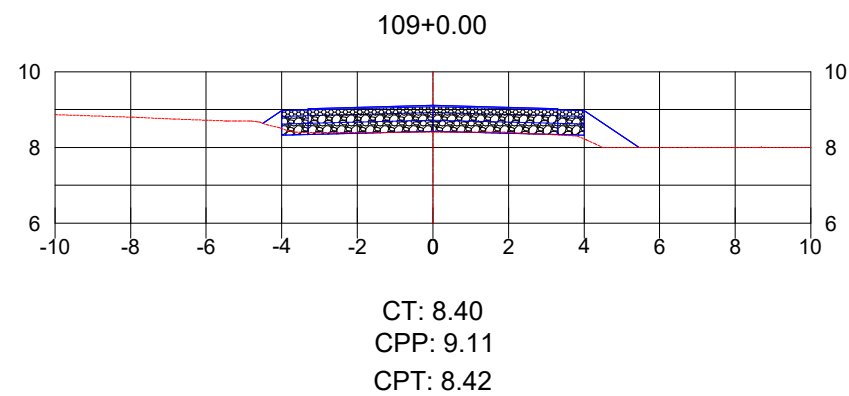
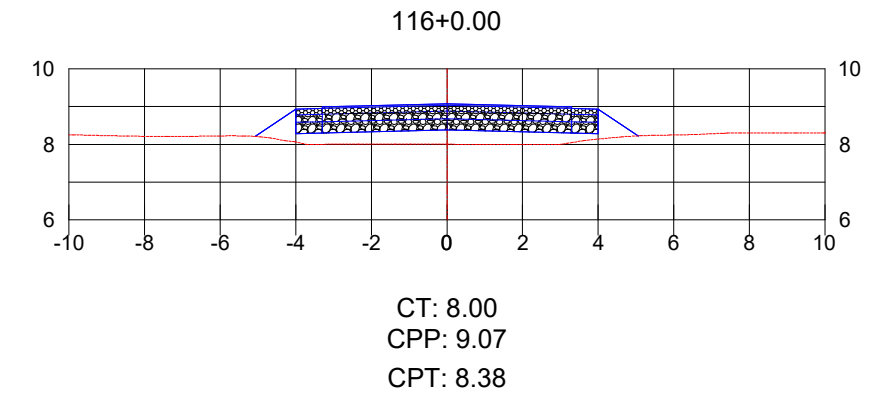
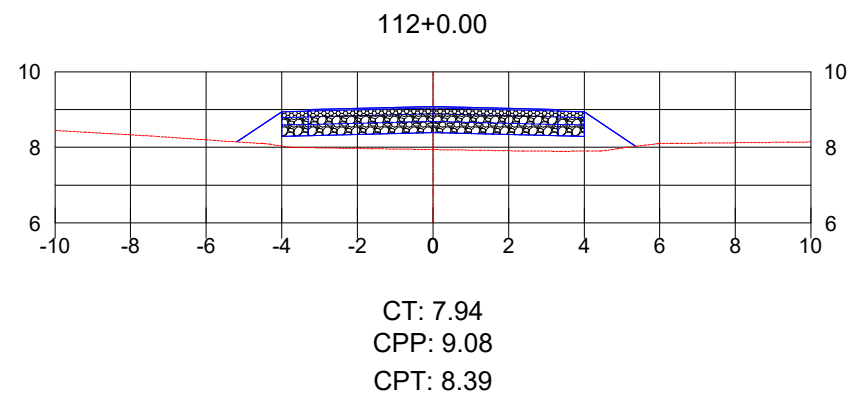
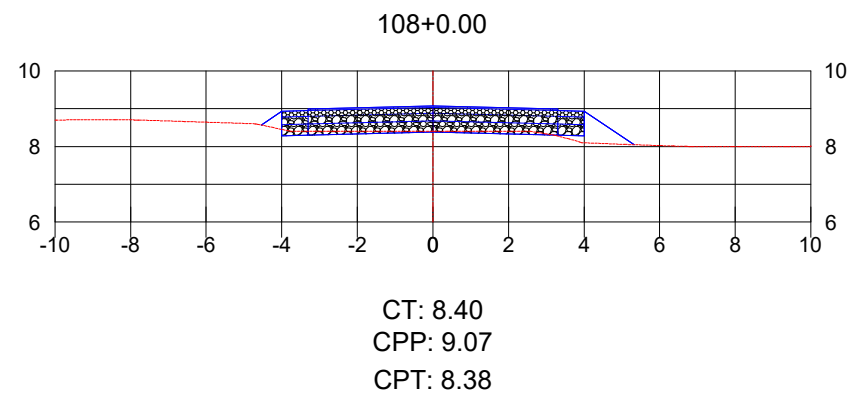
Prancha:
11/13

Obra
R.M. JOÃO FRANCELINO MACHADO

Conteúdo
SEÇÕES DE TERRAPLENAGEM

Local
R.M. JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC

A3 (297mm X 420mm)



ESCALA: 1/200



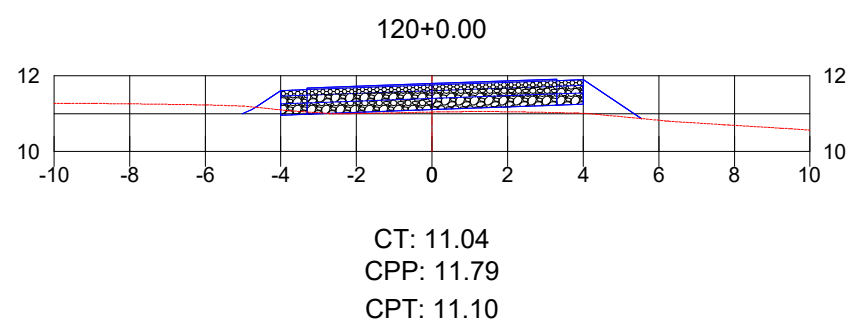
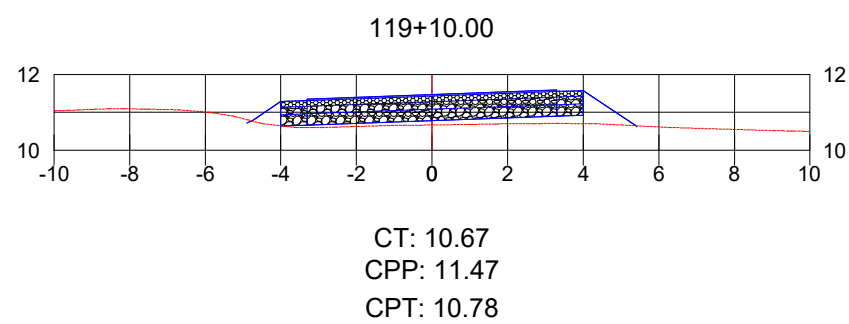
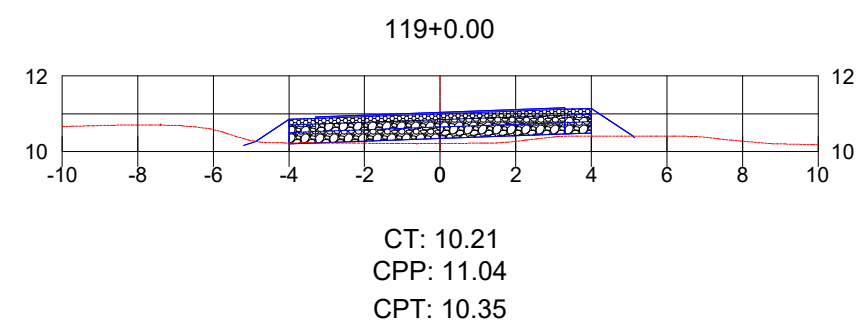
Autor do projeto:
BRUNO FRIGO PASINI
ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
12/13

Obra
R.M. JOÃO FRANCELINO MACHADO

Conteúdo
SEÇÕES DE TERRAPLENAGEM

Local
R.M. JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC



ESCALA: 1/200



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

Prancha:
13/13

Obra
R.M. JOÃO FRANCELINO MACHADO

Conteúdo
SEÇÕES DE TERRAPLENAGEM

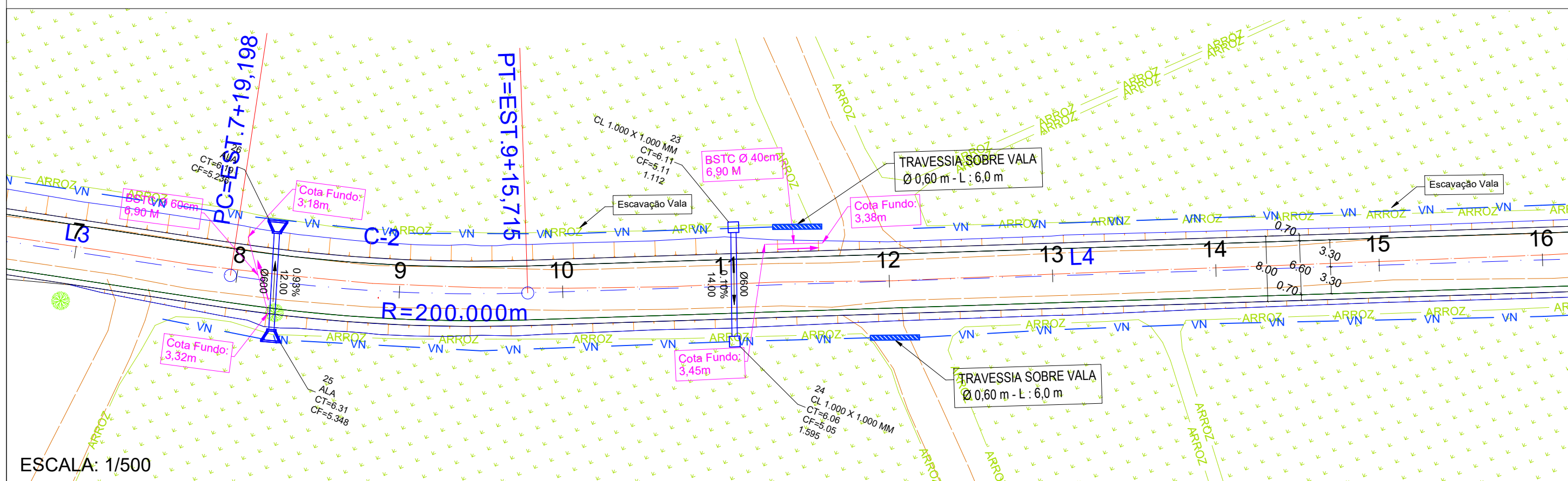
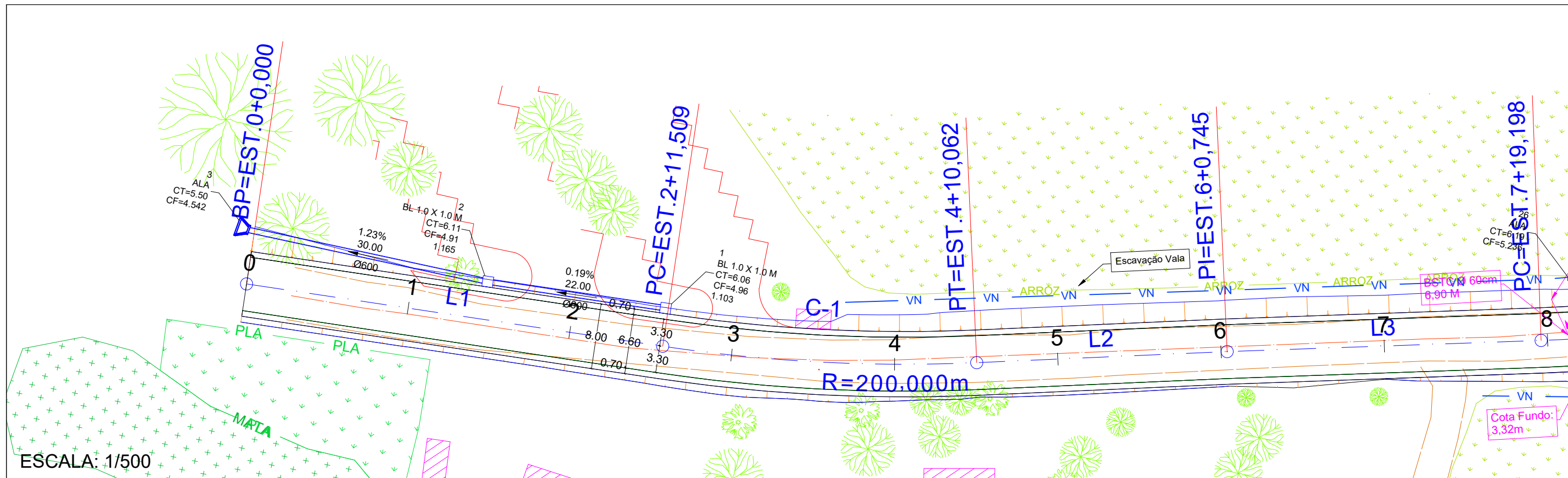
Local
R.M. JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC

A3 (297mm X 420mm)

PROJETO DE DRENAGEM

-- Planta e Detalhes





IDEALIZE
ARQUITETURA E ENGENHARIA
CREA/SC 169873-0



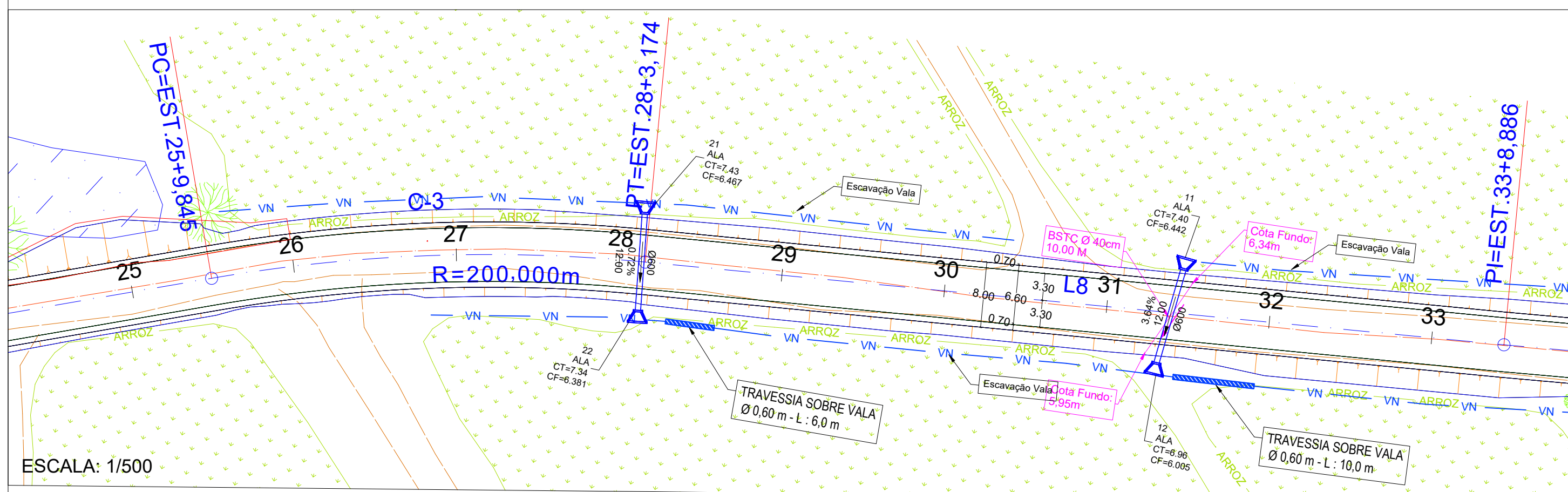
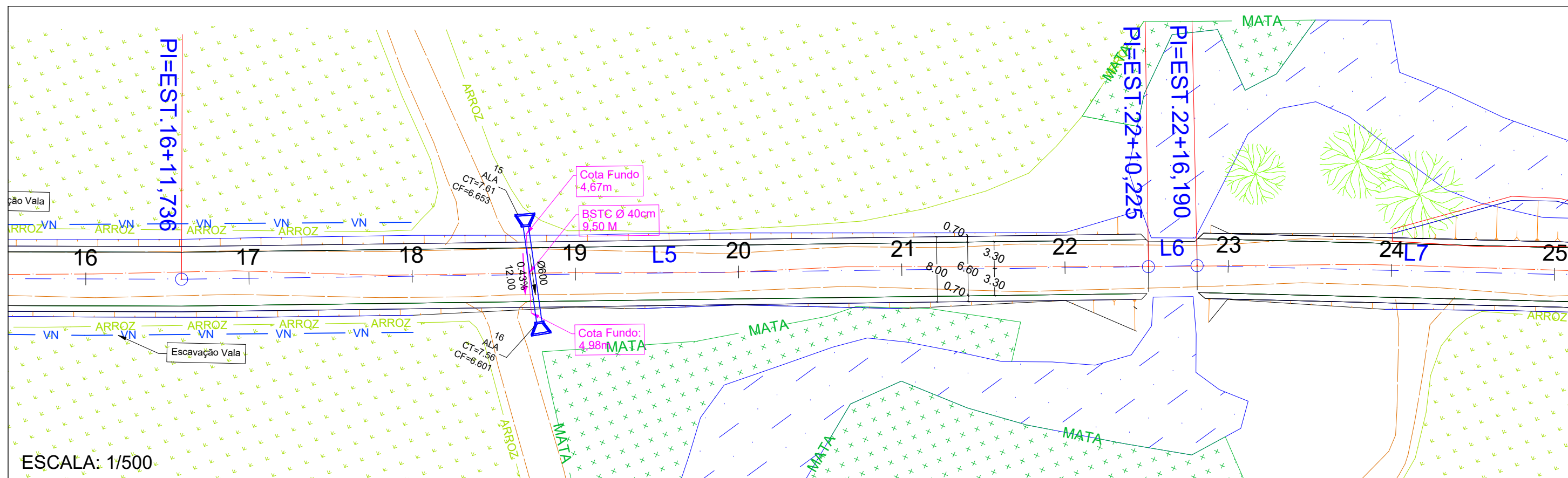
Autor do projeto:
BRUNO FRIGO PASINI
ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
01/10

Obra
R.M. JOÃO FRANCELINO MACHADO

Conteúdo
PROJETO DE DRENAGEM

Local
R.M. JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC



IDEALIZE
ARQUITETURA E ENGENHARIA
CREA/SC 169873-0



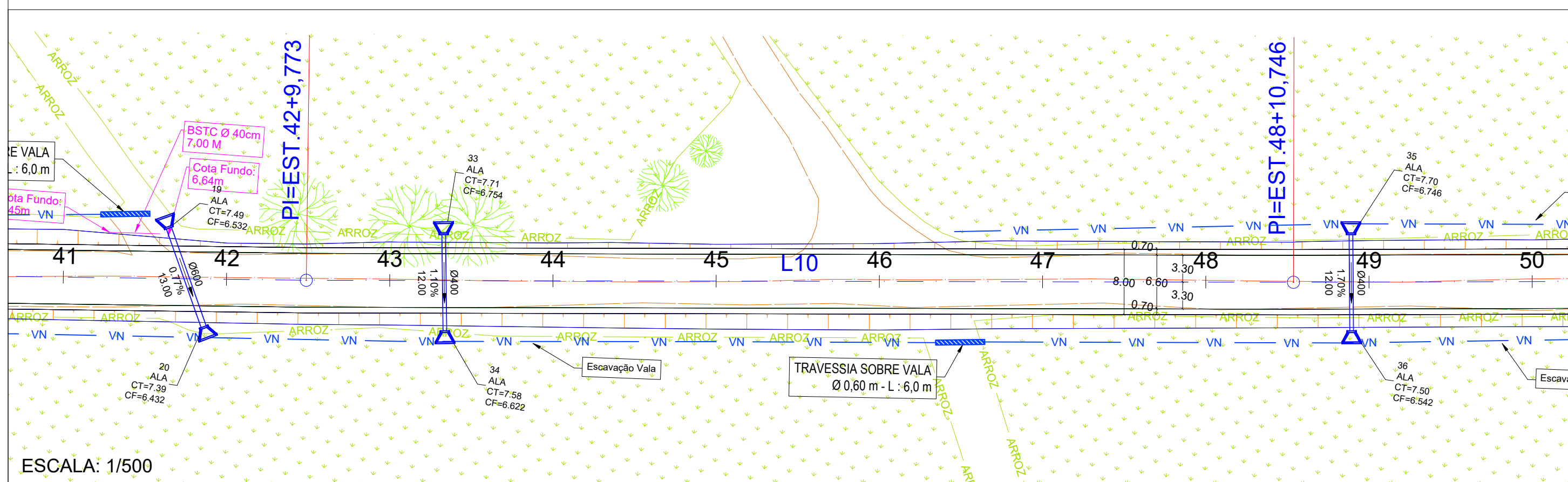
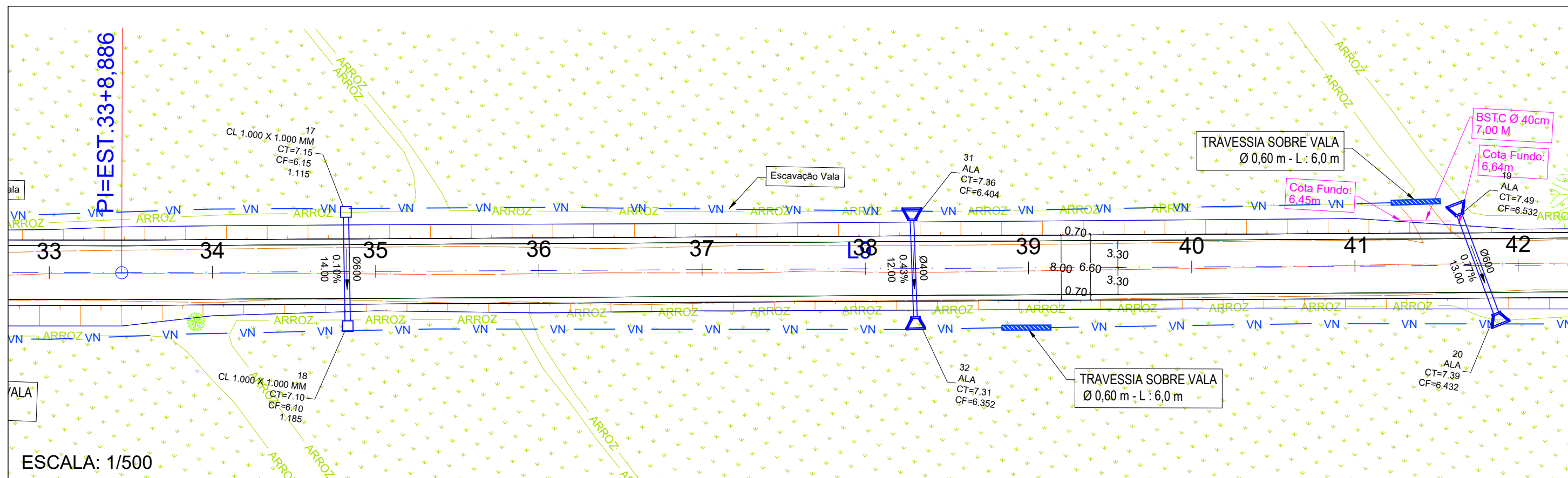
Autor do projeto:
BRUNO FRIGO PASINI
ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
02/10

Obra
R.M. JOÃO FRANCELINO MACHADO

Conteúdo
PROJETO DE DRENAGEM

Local
R.M. JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC



IDEALIZE
ARQUITETURA E ENGENHARIA
CREA/SC 169873-0



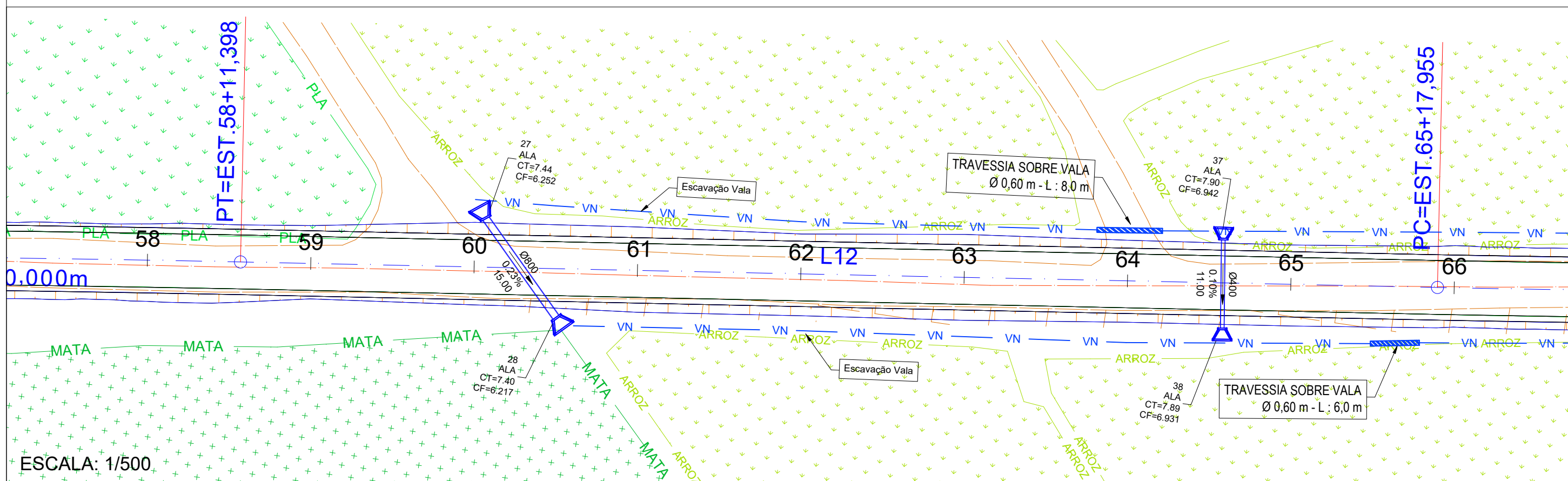
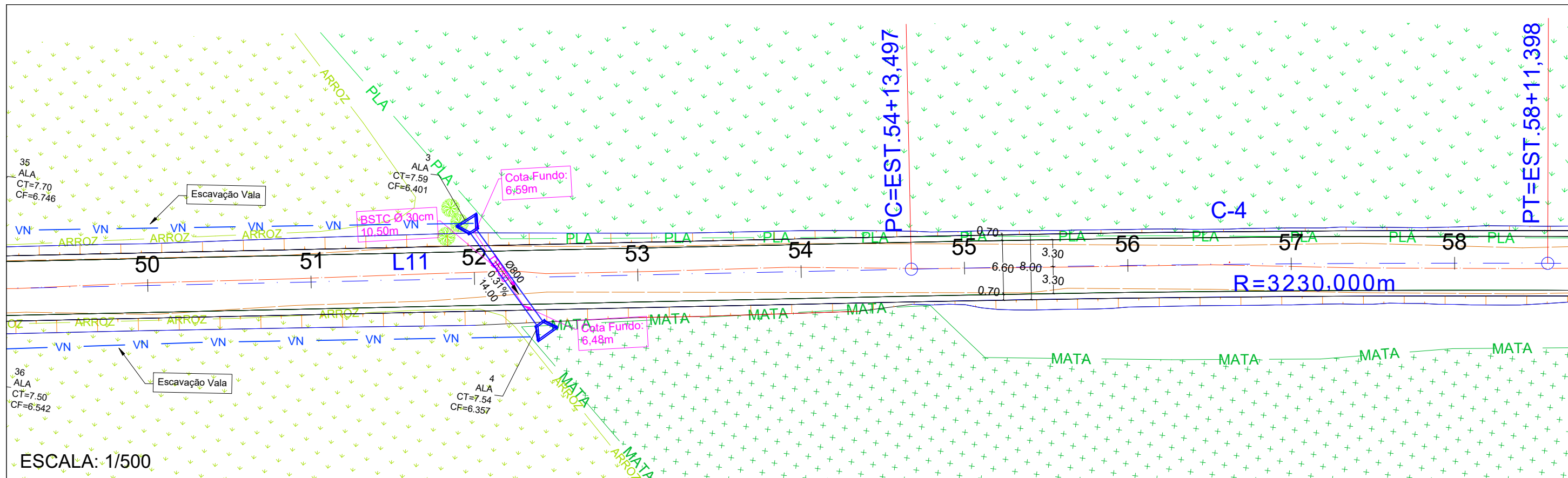
Autor do projeto:
BRUNO FRIGO PASINI
ENGENHEIRO CIVIL - CREA/SC 137.007-9

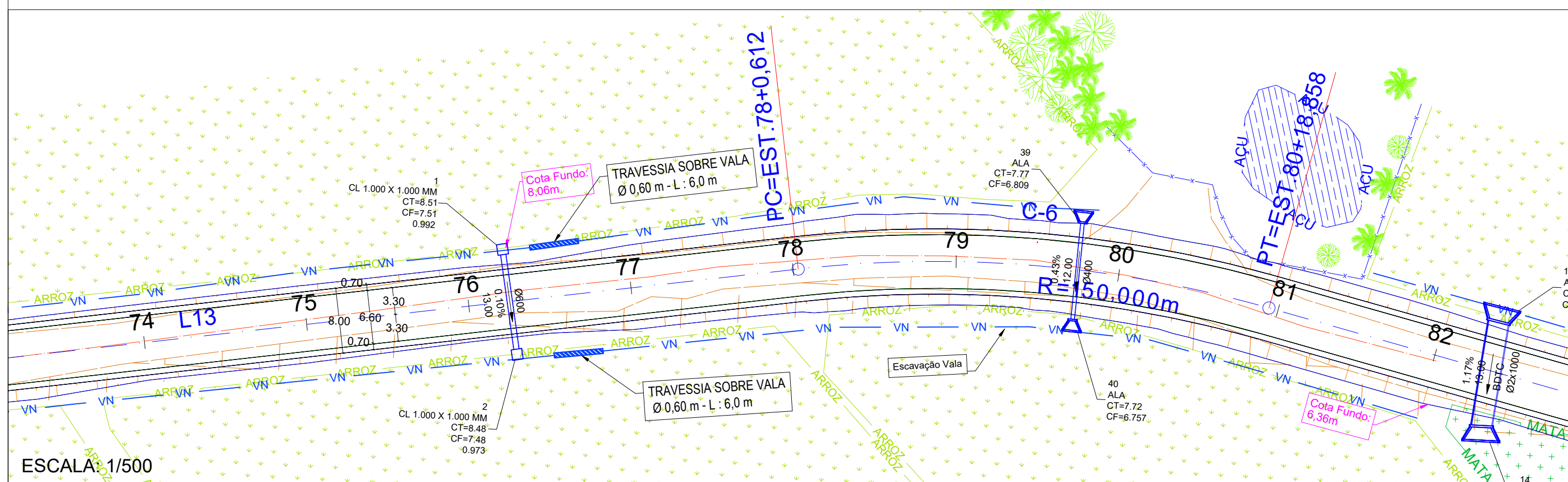
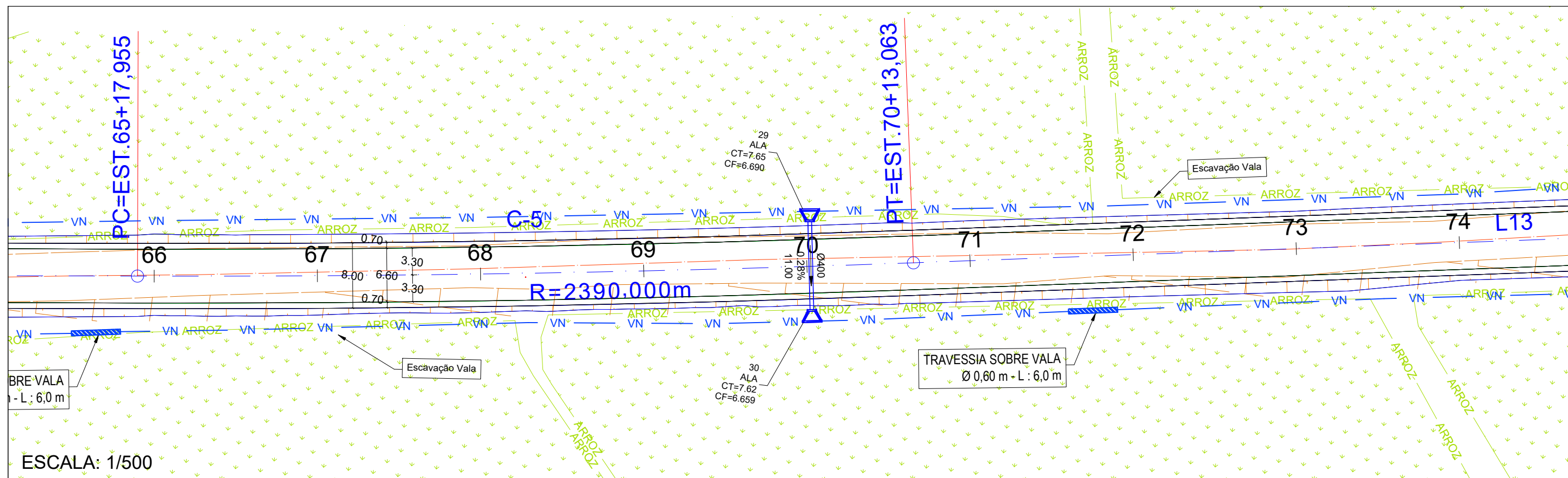
Prancha:
03/10

Obra
R.M. JOÃO FRANCELINO MACHADO

Conteúdo
PROJETO DE DRENAGEM

Local
R.M. JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC





IDEALIZE
ARQUITETURA E ENGENHARIA
CREA/SC 169873-0



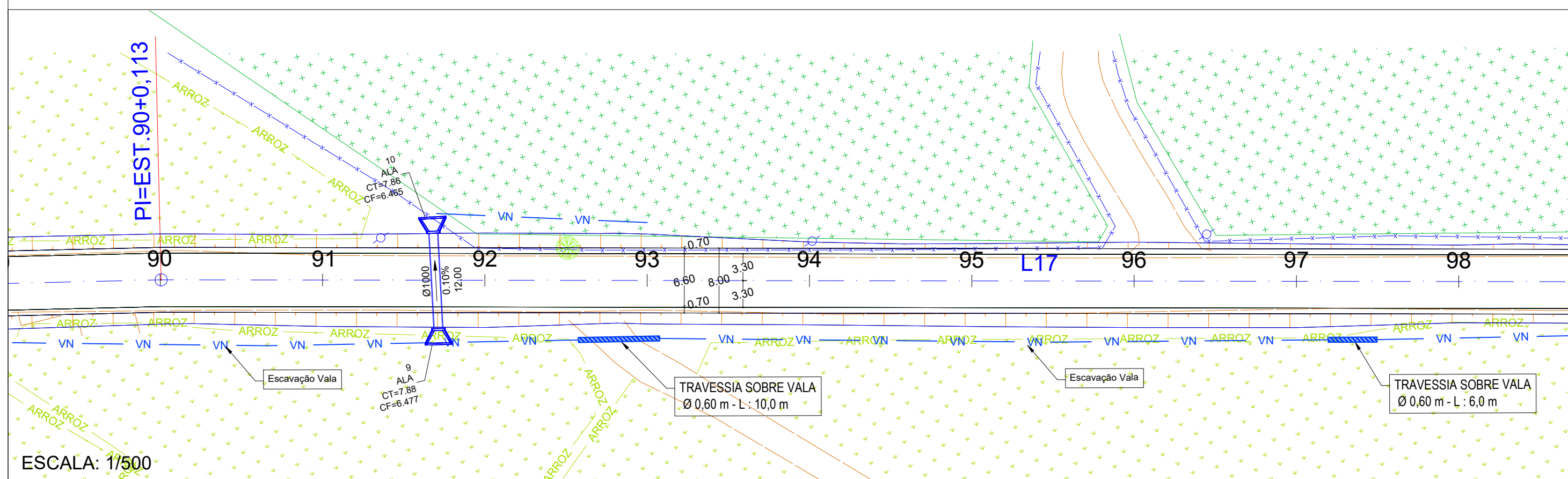
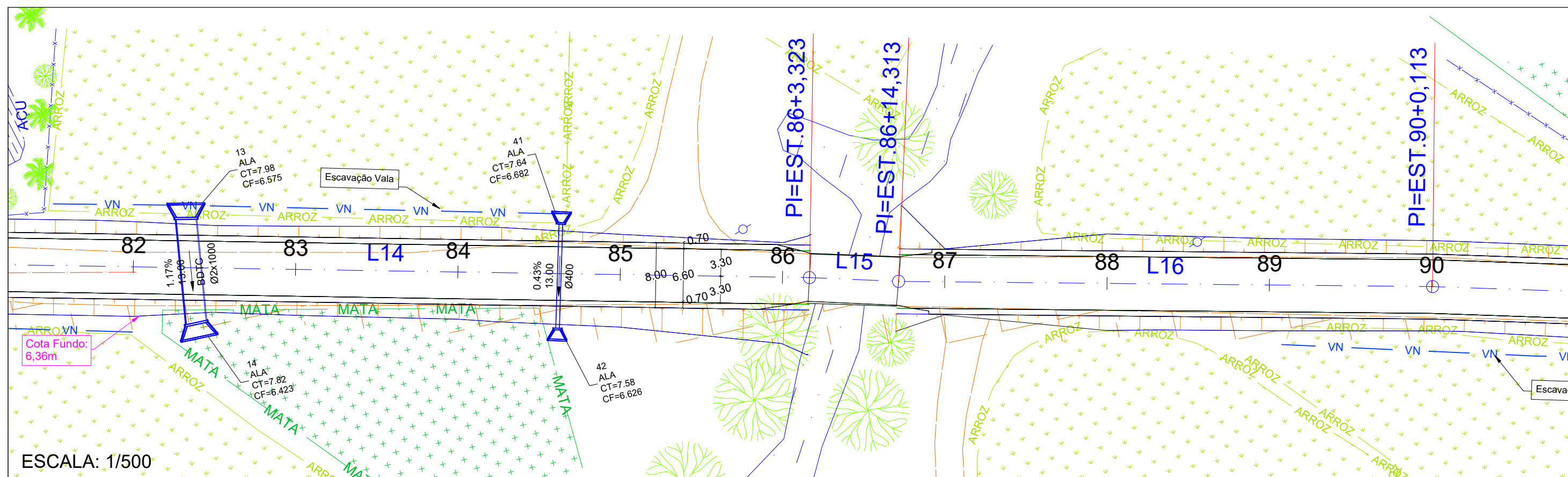
Autor do projeto:
BRUNO FRIGO PASINI
ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
05/10

Obra
R.M. JOÃO FRANCELINO MACHADO

Conteúdo
PROJETO DE DRENAGEM

Local
R.M. JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC



IDEALIZE
ARQUITETURA E ENGENHARIA
CREA/SC 169873-0



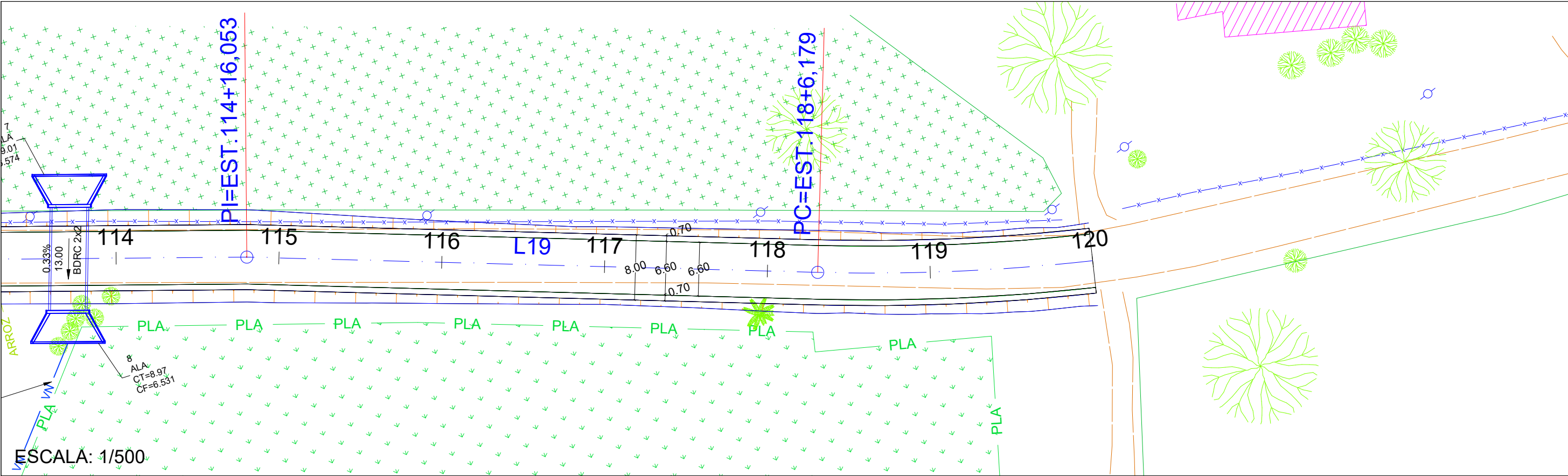
Autor do projeto:
BRUNO FRIGO PASINI
ENGENHEIRO CIVIL - CREA/SC 137.007-9

Prancha:
06/10

Obra
R.M. JOÃO FRANCELINO MACHADO

Conteúdo
PROJETO DE DRENAGEM

Local
R.M. JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC



VALA LONGITUDINAL NOVA ESCAVAÇÃO (ARROZAL)																			
TRECHO EST 0+0,00 A 120+0,00 - RM JOÃO FRANCELINO MACHADO																			
LADO ESQUERDO										LADO DIREITO									
EST [00+00,00]						EXTENSÃO	SEÇÃO	ESCAV.	EST [00+00,00]						EXTENSÃO	SEÇÃO	ESCAV.		
Início		Fim		Comple.	[m]	[TIPO]	[m³]	Início		Fim		Comple.	[m]	[TIPO]	[m³]				
3,00	+	13,50	11,00	+	6,00		152,50	1	137,25	7,00	+	12,00	11,00	+	17,50		85,50	1	76,95
12,00	+	3,20	18,00	+	0,00		116,80	1	105,12	12,00	+	3,50	18,00	+	0,00		116,50	1	104,85
26,00	+	2,00	30,00	+	8,00		86,00	1	77,40	26,00	+	16,50	28,00	+	6,00		29,50	1	26,55
31,00	+	11,50	41,00	+	4,50		193,00	1	173,70	28,00	+	12,00	31,00	+	8,00		56,00	1	50,40
46,00	+	9,00	52,00	+	0,00		111,00	1	99,90	31,00	+	18,00	38,00	+	17,00		139,00	1	125,10
60,00	+	0,00	63,00	+	16,50		76,50	1	68,85	39,00	+	3,00	46,00	+	7,00		144,00	1	129,60
64,00	+	4,50	76,00	+	8,50		244,00	1	219,60	46,00	+	13,00	52,00	+	7,00		114,00	1	102,60
76,00	+	14,50	79,00	+	17,00		62,50	1	56,25	60,00	+	11,00	65,00	+	10,00		99,00	1	89,10
81,00	+	10,50	84,00	+	14,50		64,00	1	57,60	65,00	+	16,00	71,00	+	12,00		116,00	1	104,40
91,00	+	13,50	93,00	+	0,00		26,50	1	23,85	71,00	+	18,00	76,00	+	10,00		92,00	1	82,80
										76,00	+	16,00	82,00	+	82,00		186,00	1	167,40
										89,00	+	1,60	92,00	+	12,00		70,40	1	63,36
										93,00	+	1,50	97,00	+	4,00		82,50	1	74,25
										97,00	+	10,00	107,00	+	6,80		196,80	1	177,12
										107,00	+	13,00	113,00	+	0,00		107,00	1	96,30
										113,00	+	15,00	113,00	+	15,00	80,00	80,00	1	72,00
COMPRIMENTO TOTAL VALAS (m)								2847,00	Vala Conforme de talhe de Projeto: A.seção TIPO 1: 0,90 m² - A.seção TIPO 2:										
VOLUME TOTAL DE ESCAVAÇÃO (m³)								2562,30	1,72 m²										



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

Prancha:
08/10

Obra
R.M. JOÃO FRANCELINO MACHADO

Conteúdo
PROJETO DE DRENAGEM

Local
R.M. JOÃO FRANCELINO MACHADO, SÃO PEDRO - FORQUILHINHA/SC