



*ASSOCIAÇÃO DOS MUNICÍPIOS
DA REGIÃO DA GRANDE FLORIANÓPOLIS
" GRANFPOLIS "*

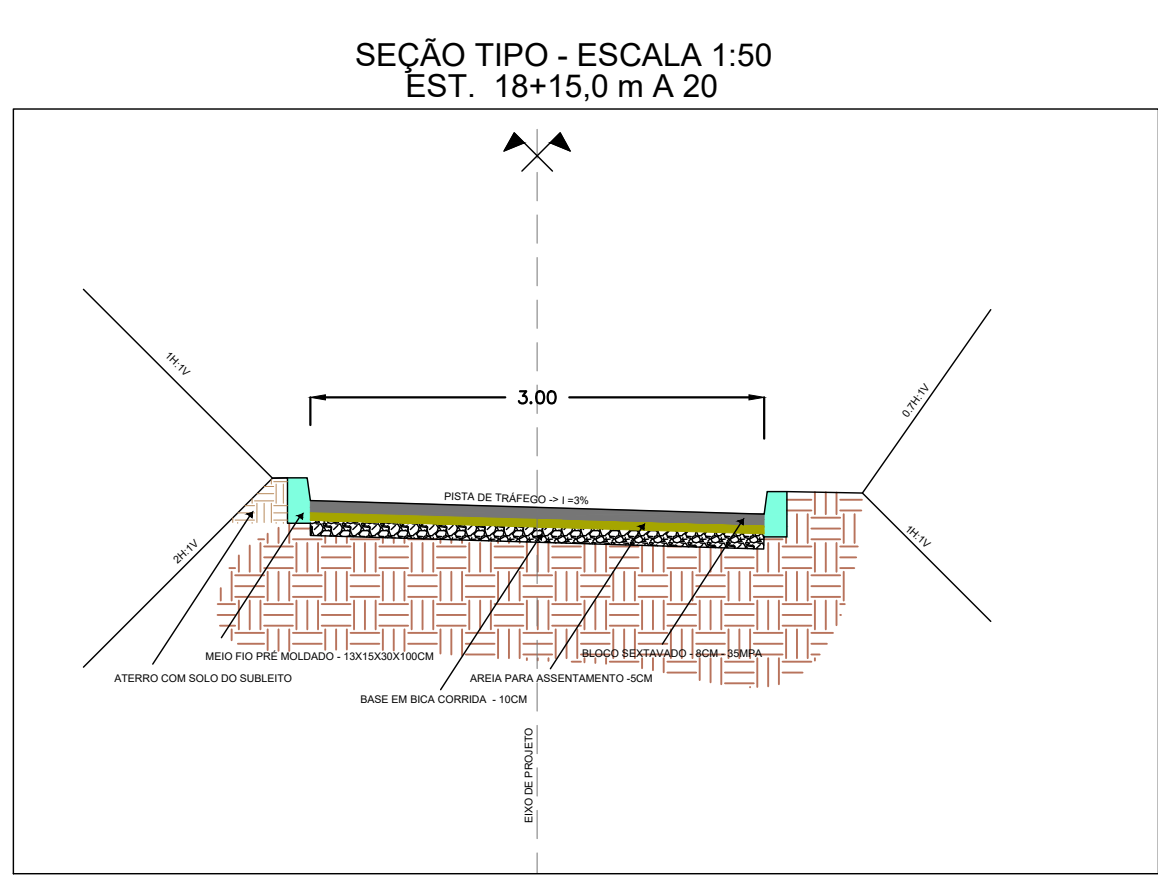
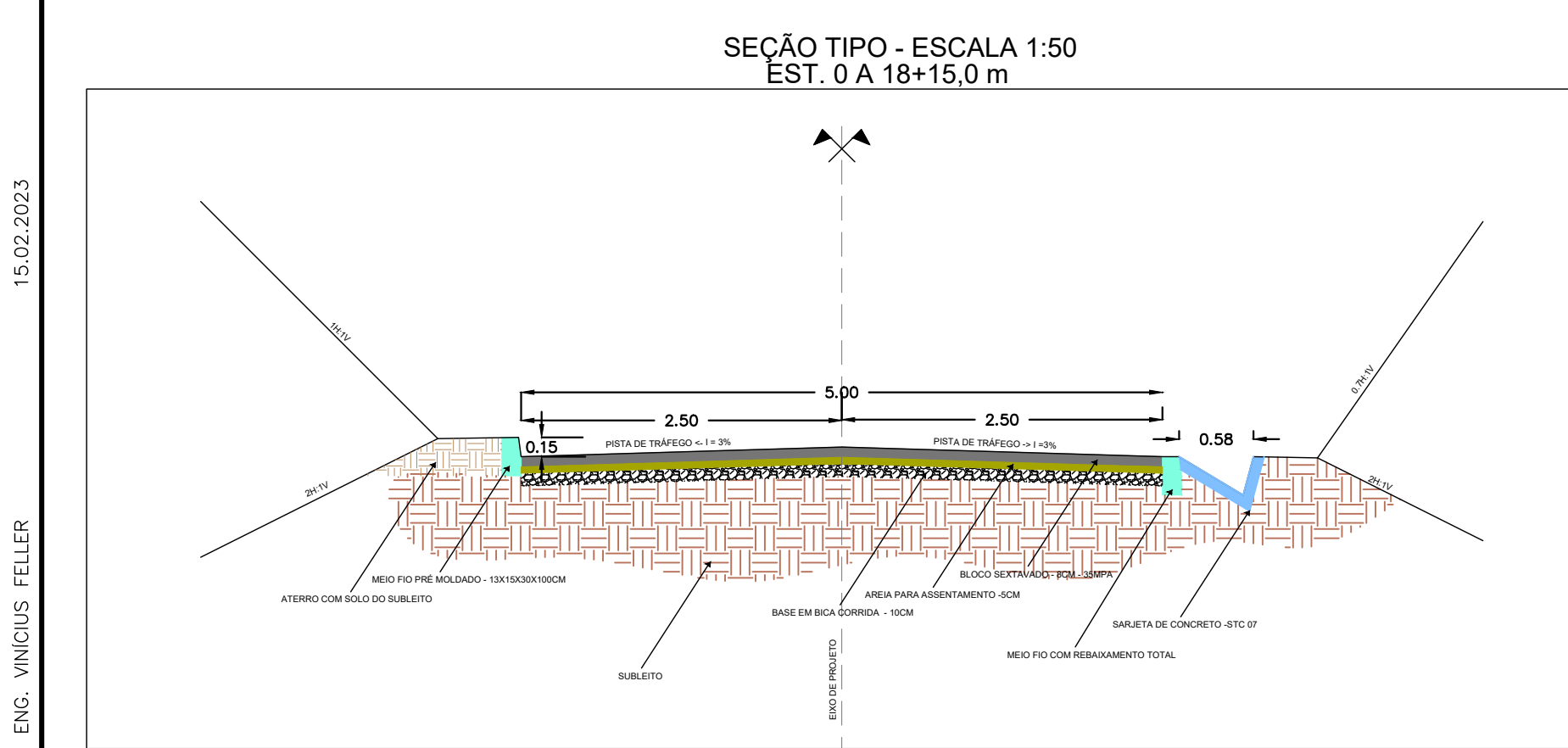
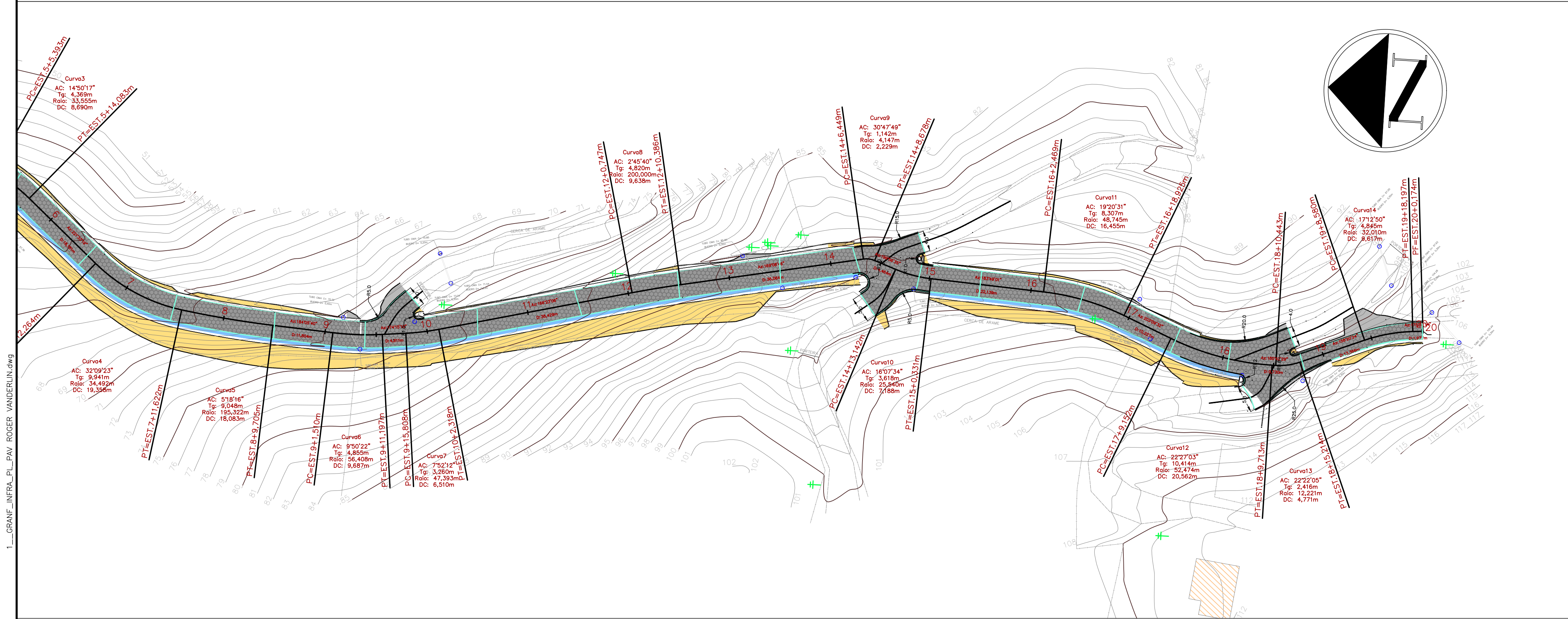
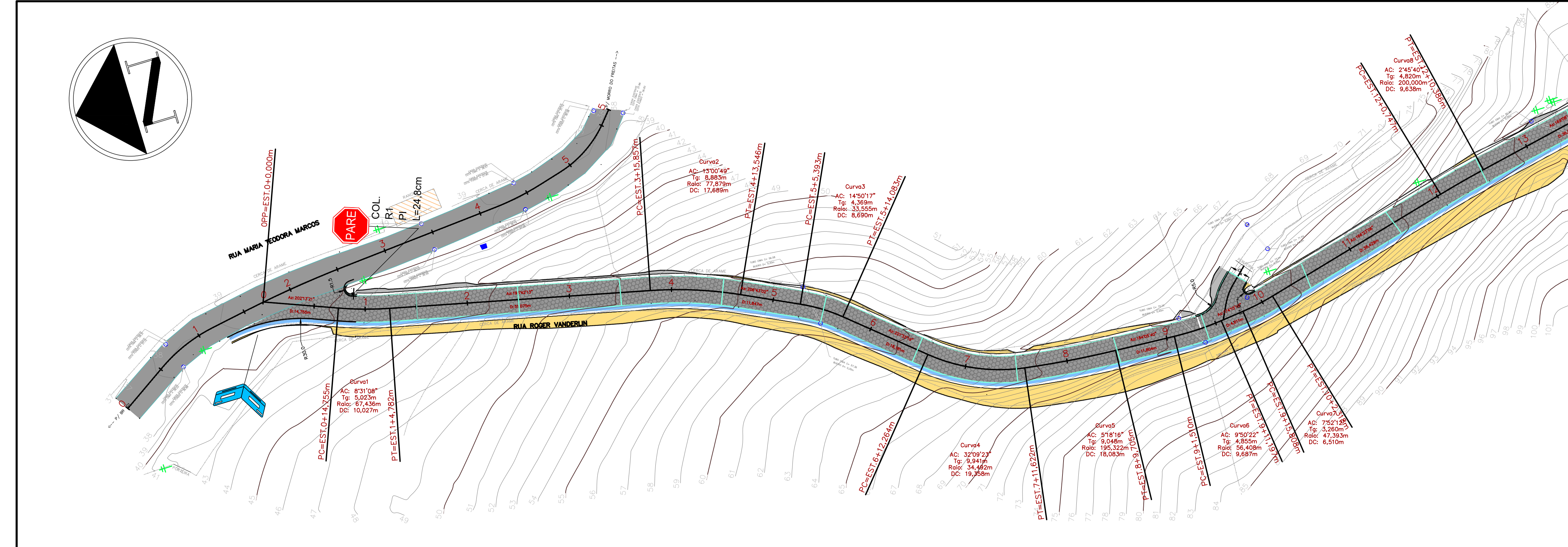
META 1 - PAVIMENTAÇÃO EM BLOCOS SEXTAVADOS, DRENAGEM E SINALIZAÇÃO VIÁRIA

**RUA ROGER VANDERLIN
ESTACA 0 A 20
PAULO LOPES/SC**

PROJETOS DE ENGENHARIA

VOLUME 03

FEVEREIRO/2023



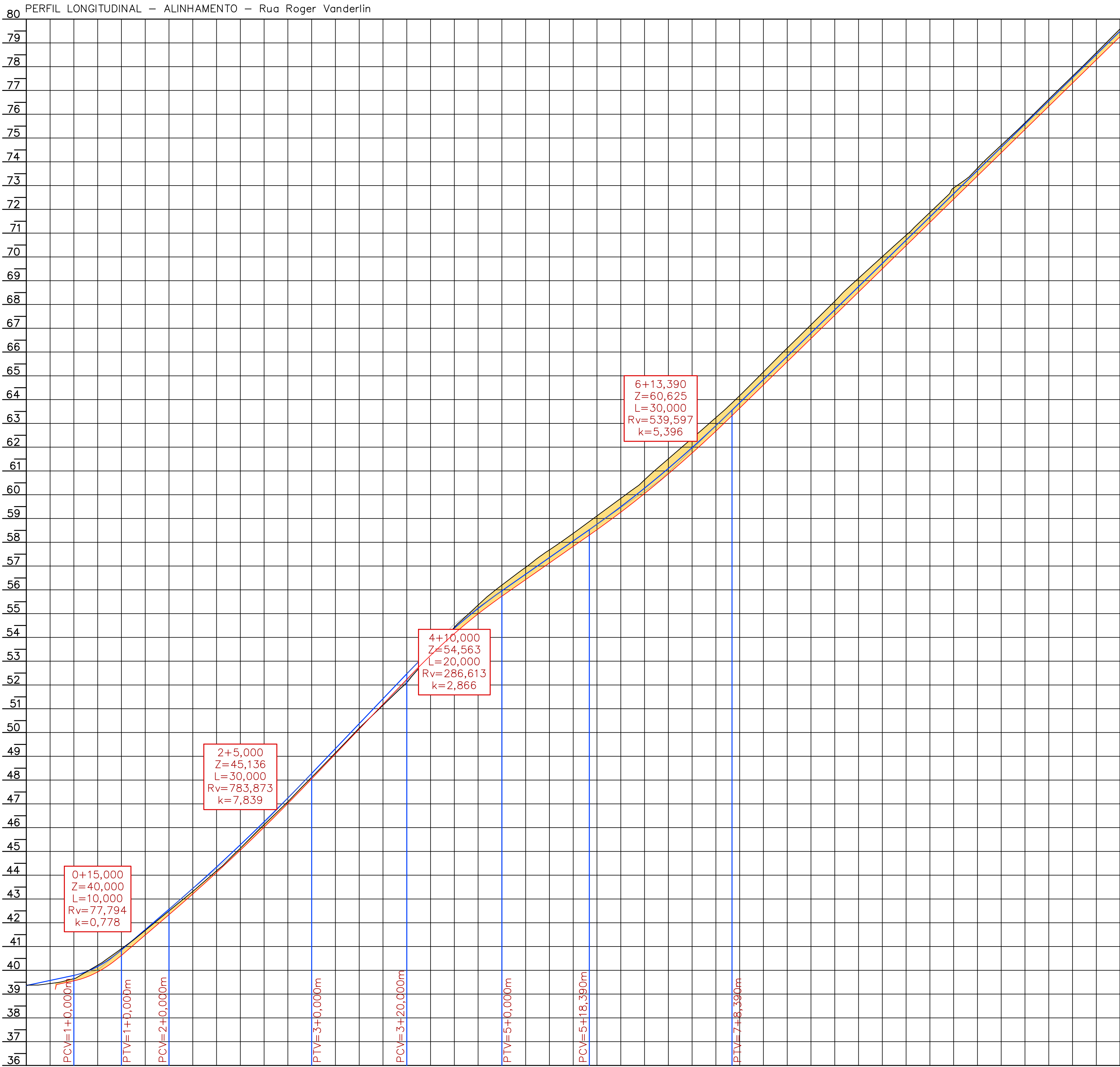
LEGENDA

- POSTE EXISTENTE
- CADASTRO
- CERCA DE ARAME
- DRENAGEM EXISTENTE
- MEIO-FIO 13X15X30X100cm
- SARJETA STC -07
- PAVIMENTO PROJETADO
- CORTE
- ATERRO
- BORDOS EXISTENTES
- EIXO DA PISTA DE TRÁFEGO
- GREIDE PAVIMENTO ACABADO
- GREIDE DE TERRAPLENAGEM
- DEMOLIÇÃO/DESLOCAMENTOS
- PLACA DE SINALIZAÇÃO DE REGULAMENTAÇÃO R-1
- PLACA DE INDICATIVA DE NOME DE RUA

EMISSION INICIAL	15/02/2023	001
QUADRO DE REVISÃO	DATA	NÚMERO

PROJETO DE PAVIMENTAÇÃO

MUNICÍPIO	PAULO LOPES - SC	
OBRA	CONTEÚDO	
RUA ROGER VANDERLIN	PROJETO DE PAVIMENTAÇÃO EM BLOCOS SEXTAVADOS DE CONCRETO PLANTA BAIXA	
PROJETO	SEÇÕES TIPO	
	APROVAÇÃO DA PREFEITURA	
	VINÍCIUS FELLER Engenheiro Civil CREA/SC 147.982-3	
DATA	FEVEREIRO/2023	PRANCHA
	ESCALA 1:500	01/05

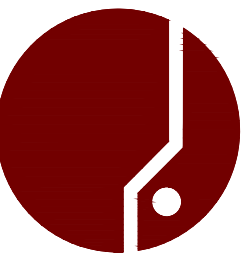


ESTACAS	COTAS TERRENO	CORTE	COTAS PROJETO	COTAS TERRAPLENO	ELEMENTOS HORIZONTAIS	ELEMENTOS VERTICAIS
39,377 0+0,000	39,650 0	0,094	39,287	39,557	Tg=14,755m	i= 4,27% em 10,00m
0+5,00	40,188 0+14,755		40,135	39,905	R=67,436m Dc=10,027m	i= 10,00%
0+15,00	40,876 0+19,769	0,284	40,817	40,587		i= 17,12% em 10,00m
1+0,00	40,910 1+4,782		40,856	40,626		
1+5,00	41,642 1+9,775		41,675	41,445		
2+0,00	42,498 1+14,769	0,160	42,568	42,338		Lc= 30,00m
2+5,00	44,188 2+19,775	0,074	44,344	44,114		
3+0,00	46,124 3+24,780	0,107	46,248	45,018		
3+5,00	48,121 3+29,785	0,072	48,279	48,049		i= 20,95% em 20,00m
4+0,00	50,187 4+34,790	0,043	50,373	50,143		Lc= 20,00m
4+5,00	51,309 4+39,795		51,600	51,370		
5+0,00	52,089 4+44,800	0,150	52,468	52,238	R=77,879m Dc=17,689m	
5+5,00	53,194 4+49,805		53,415	53,185		
6+0,00	54,420 4+54,810	0,262	54,389	54,158		i= 13,97% em 18,39m
6+5,00	55,092 4+59,815		54,986	54,756		
7+0,00	56,199 4+64,820	0,469	55,960	55,730		
7+5,00	57,004 4+69,825		56,714	56,484		Lc= 30,00m
8+0,00	57,645 4+74,830	0,553	57,645	57,321		
8+5,00	58,244 4+79,835		58,244	57,917		
9+0,00	59,110 4+84,840	0,584	59,110	58,527		
9+5,00	60,627 4+89,845	0,581	60,627	60,046		
10+0,00	61,037 4+94,850		61,037	60,416		
10+5,00	62,373 4+99,855	0,622	62,373	61,751		
11+0,00	62,706 5+0,860		62,706	62,104		
11+5,00	64,165 5+5,865	0,527	64,165	63,659		
12+0,00	66,167 5+10,870	0,575	66,167	65,592		
12+5,00	68,080 5+15,875	0,594	68,080	67,487		
13+0,00	69,705 5+20,880	0,515	69,705	69,498		
13+5,00	71,165 5+25,885	0,419	71,165	70,738		
14+0,00	71,870 5+30,890		71,870	71,451		
14+5,00	72,099 5+35,895		72,099	71,684		
15+0,00	73,014 5+40,900	0,330	73,014	72,585		
15+5,00	73,536 5+45,905		73,536	73,221		
16+0,00	74,197 5+50,910	0,285	74,197	73,856		
16+5,00	75,642 5+55,915	0,253	75,642	75,357		
17+0,00	77,603 5+60,920	0,328	77,603	77,310		
17+5,00	79,591 5+65,925		79,591	79,263		

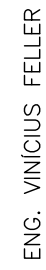
EMISSION INICIAL	15/02/2023	001
QUADRO DE REVISÃO	DATA	NÚMERO

PROJETO DE PAVIMENTAÇÃO

MUNICÍPIO		PAULO LOPES - SC	
OBRA		CONTEÚDO	
RUA ROGER VANDERLIN		PROJETO DE PAVIMENTAÇÃO EM BLOCOS SEXTAVADOS DE CONCRETO PERFIL LONGITUDINAL	
PROJETO		APROVAÇÃO DA PREFEITURA	
VINÍCIUS FELLER Engenheiro Civil CREA/SC 147.982-3			
DATA	FEVEREIRO/2023	ESCALA	1:500
		PRANCHA	02/05

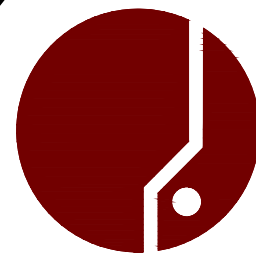


ASSOCIAÇÃO DOS MUNICÍPIOS
DA REGIÃO DA GRANDE FLORIANÓPOLIS
"GRANFOLIS"
ASSESSORIA DE ENGENHARIA E ARQUITETURA



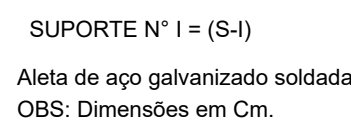
**PLACA INDICATIVA DE NOME DE RUA
SEM ESCALA**

Composta por duas chapas conforme detalhe, porém fixadas a um único poste metálico tubular, trazendo informações distintas à respeito das ruas perpendiculares.



ASSOCIAÇÃO DOS MUNICÍPIOS
DA REGIÃO DA GRANDE FLORIANÓPOLIS
"GRANFOPOLIS"
ASSESSORIA DE ENGENHARIA E ARQUITETURA

CURVAS	AC	R (m)	T (m)	D (m)	PC	PT	PONTO	PC	PI	PT
Curva1	8°31'08,11"	67,436	5,023	10,027	0+14,755	1+4,782	N E	6901538,4604 728332,7464	6901533,8108 728330,8468	6901528,9312 728329,65
Curva2	13°00'49,32"	77,879	8,883	17,689	3+15,857	4+13,546	N E	6901479,3105 728317,5574	6901470,6807 728315,4532	6901462,7464 728311,4596
Curva3	14°50'17,21"	33,555	4,369	8,690	5+5,393	5+14,083	N E	6901452,1638 728306,1332	6901448,2609 728304,1687	6901444,9912 728301,1703
Curva4	32°09'22,97"	34,492	9,941	19,358	6+12,264	7+11,622	N E	6901431,3858 728289,2098	6901423,9466 728282,6152	6901431,1387 728280,9917
Curva5	5°18'16,13"	195,332	9,048	18,083	7+11,622	8+9,705	N E	6901414,1387 728280,9917	6901405,2121 728279,5141	6901396,1872 728278,8681
Curva6	9°50'22,00"	56,408	4,855	9,687	9+1,510	9+11,197	N E	6901384,4132 728278,0252	6901379,5702 728277,6785	6901374,7931 728278,1646
Curva7	7°52'12,43"	47,393	3,260	6,510	9+15,808	10+2,318	N E	6901370,1509 728278,6261	6901366,9072 728278,9525	6901363,7388 728279,7199
Curva8	2°45'40,42"	200,000	4,820	9,638	12+0,747	12+10,386	N E	6901326,3992 728288,7661	6901321,7045 728289,9007	6901316,9075 728280,8708
Curva9	30°47'48,88"	4,147	1,142	2,229	14+6,449	14+8,678	N E	6901281,5521 728297,8144	6901280,4303 728297,8144	6901279,3567 728297,4248
Curva10	16°07'33,86"	25,540	3,618	7,188	14+13,142	15+00,331	N E	6901275,1604 728295,9058	6901271,7594 728294,6681	6901268,1494 728294,4273
Curva11	19°20'30,55"	48,745	8,307	16,455	16+2,469	16+18,925	N E	6901246,0598 728292,9535	6901237,7715 728290,4205	6901230,1341 728289,1363
Curva12	22°27'03,24"	52,474	10,414	20,562	17+9,152	18+9,713	N E	6901220,7312 728285,1115	6901211,1560 728281,0157	6901200,7424 728280,8870
Curva13	22°22'04,76"	12,221	2,416	4,771	18+10,443	18+15,214	N E	6901200,0126 728280,8780	6901197,5985 728280,8482	6901195,3508 728281,7400
Curva14	17°12'49,85"	32,010	4,845	9,617	19+8,580	19+18,197	N E	6901182,9287 728286,6734	6901178,4258 728286,4616	6901173,5954 728286,8783

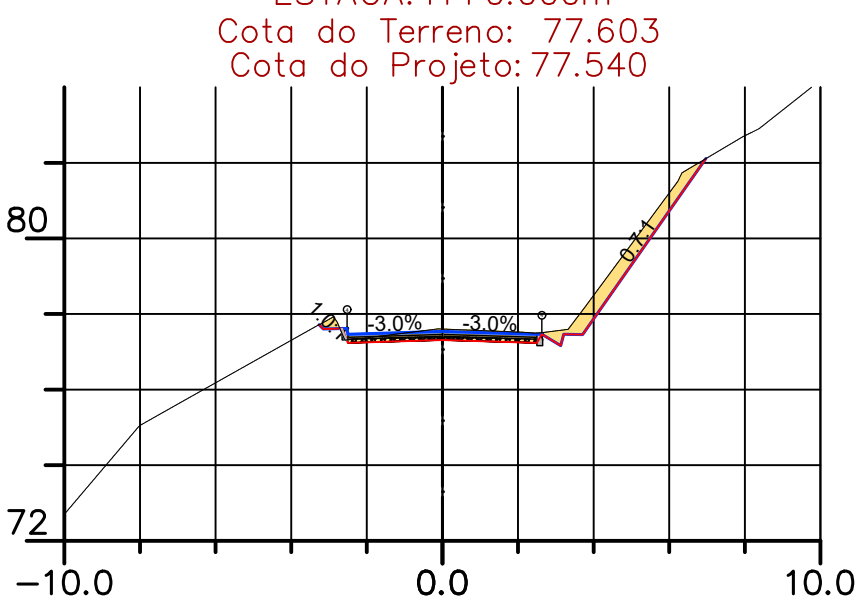
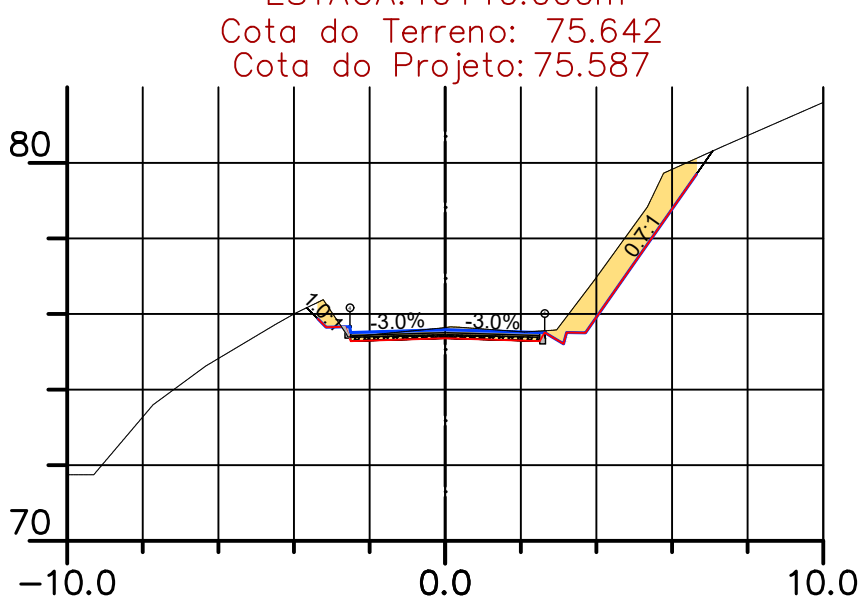
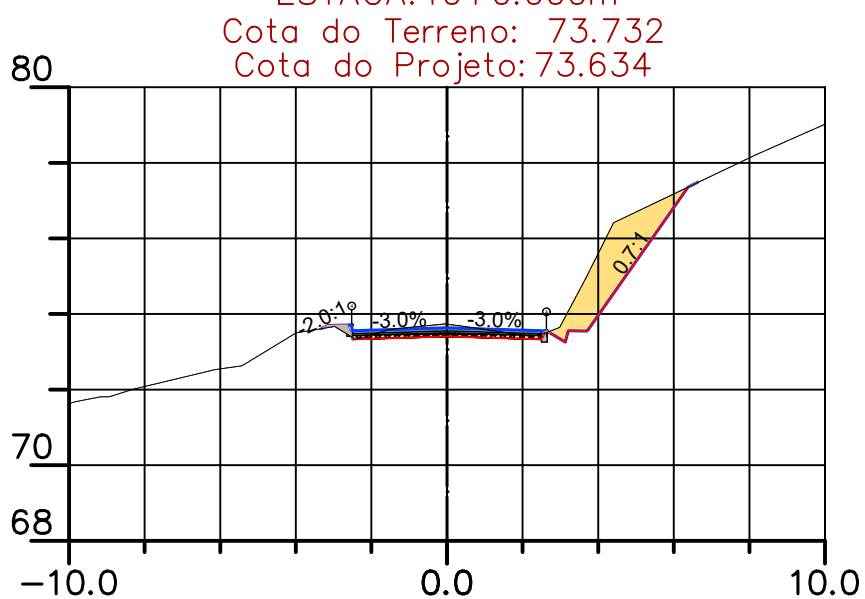
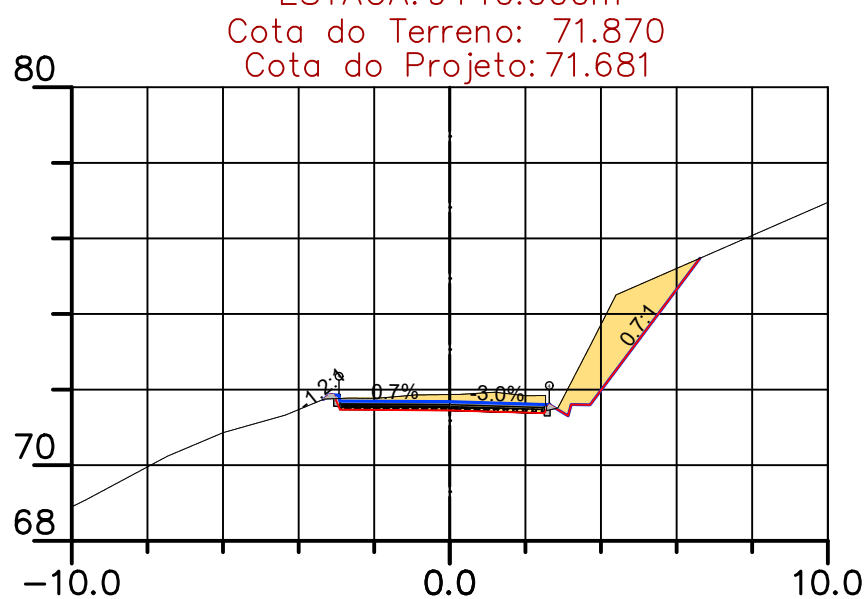
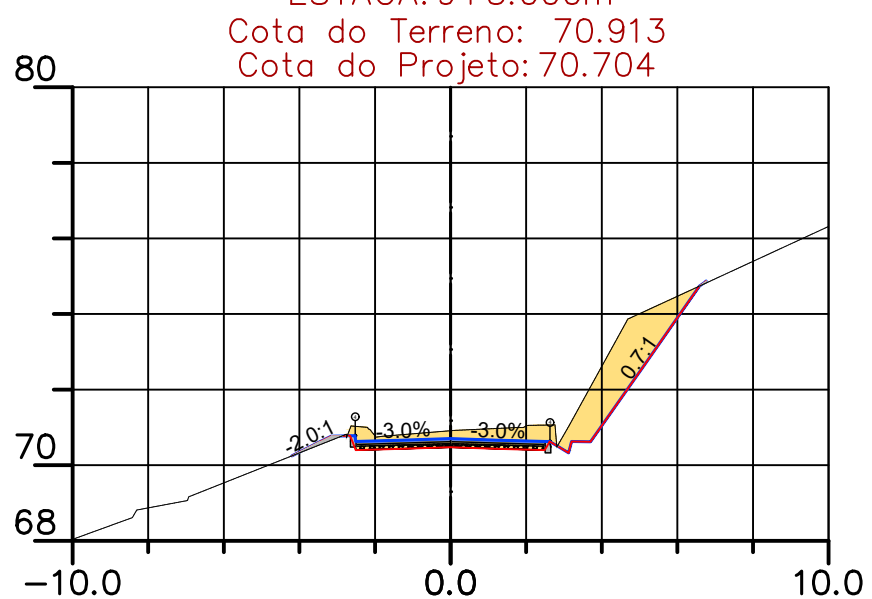
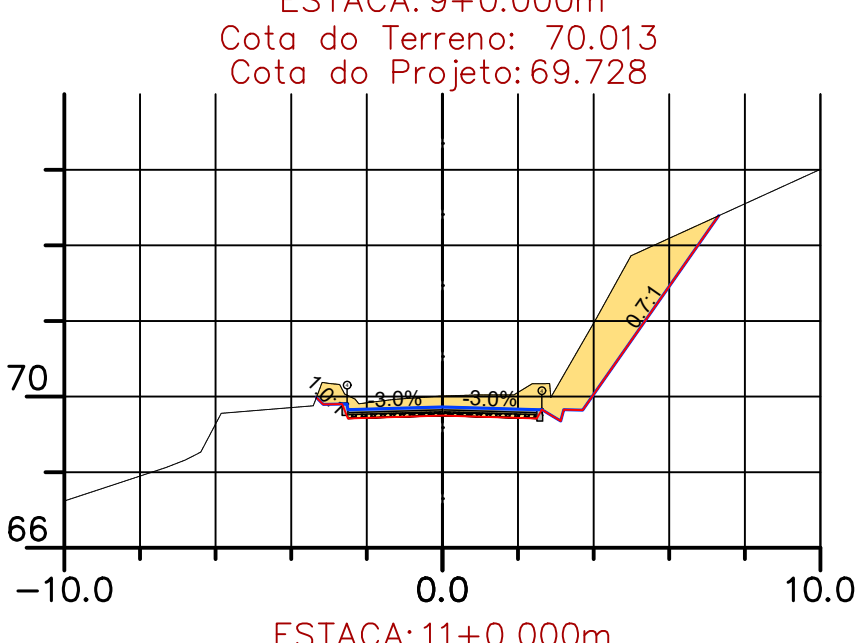
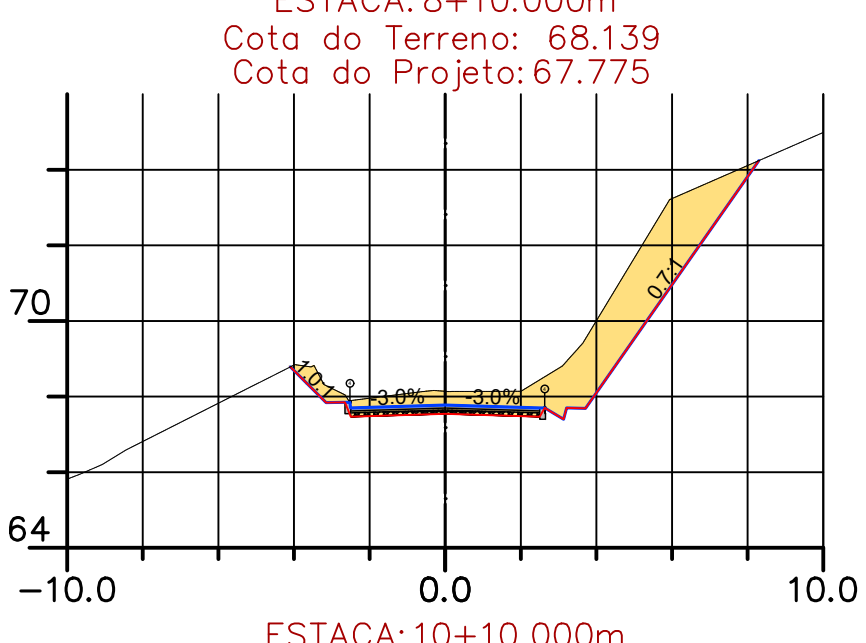
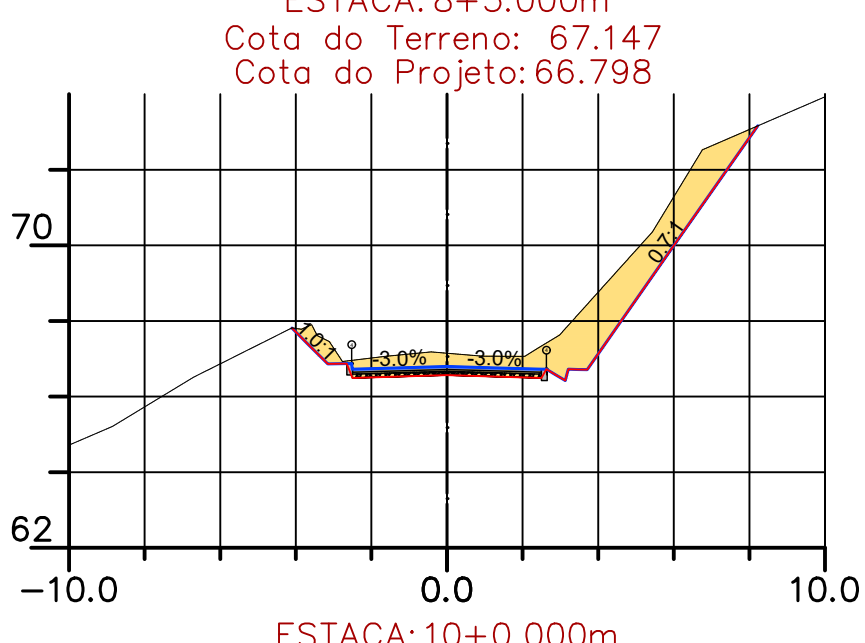
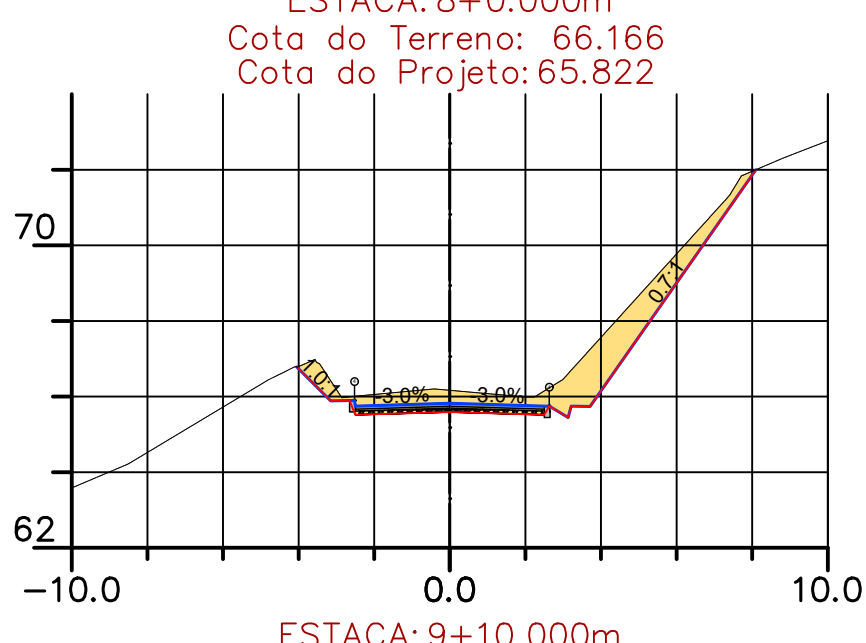
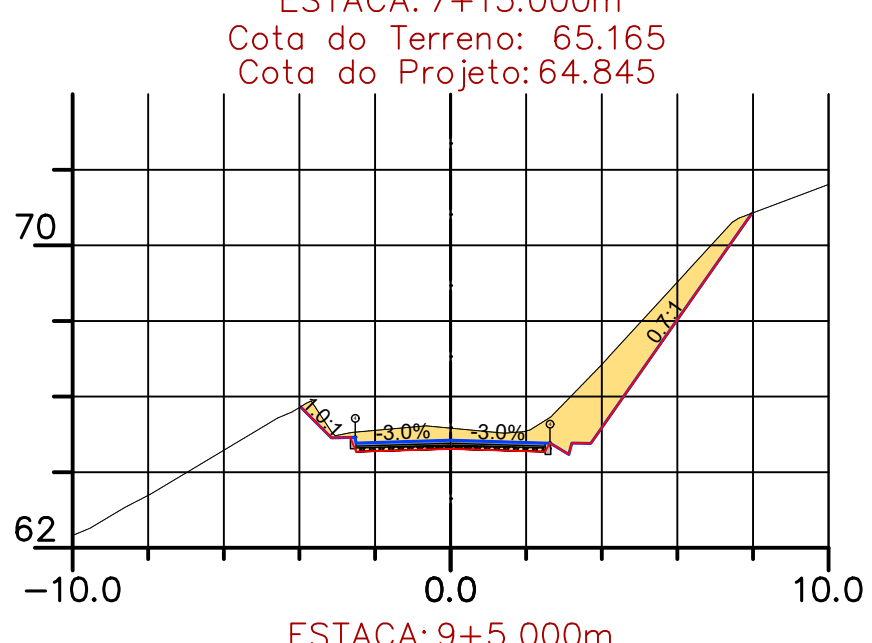
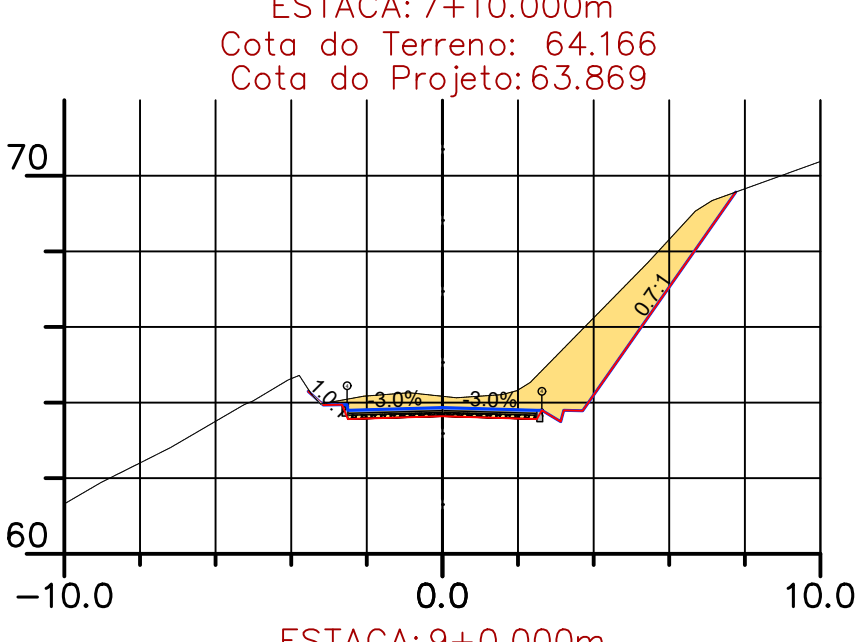
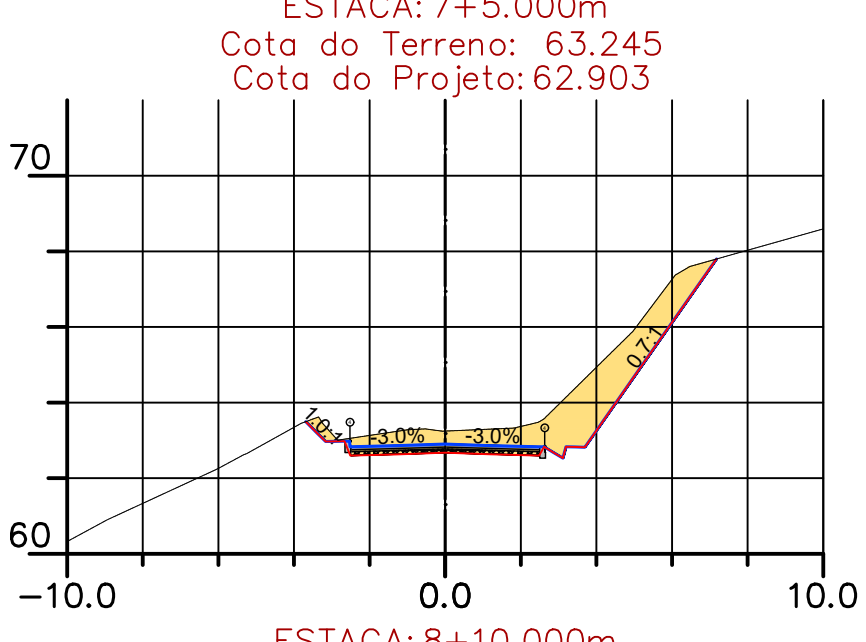
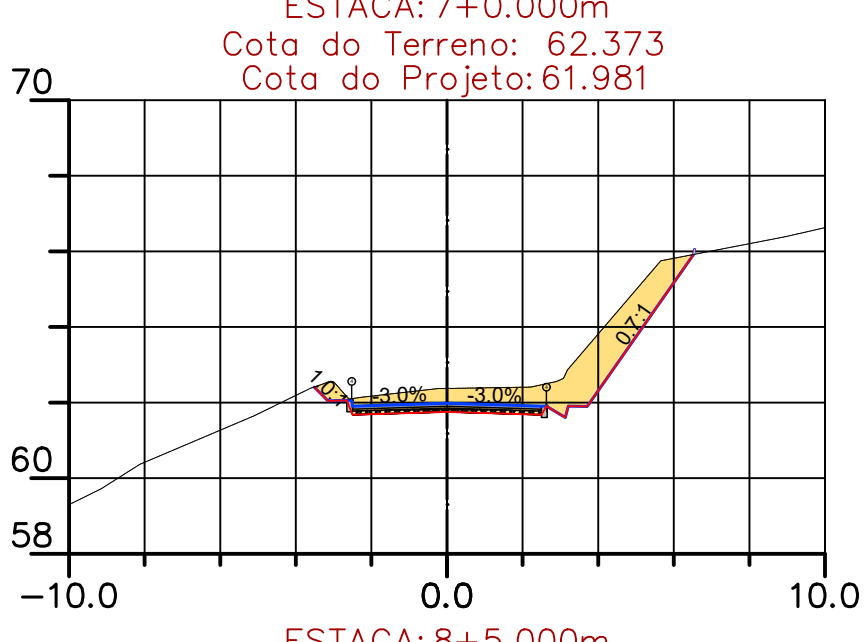
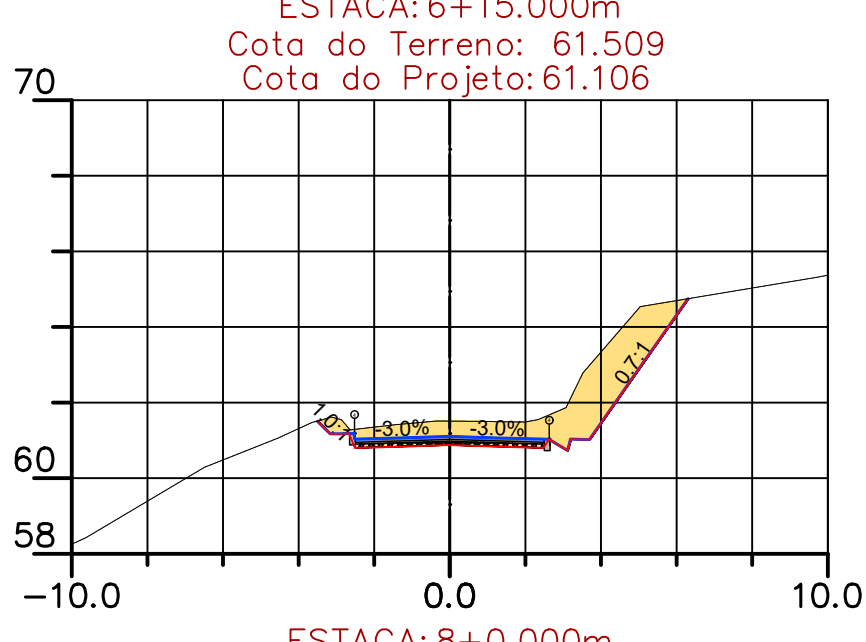
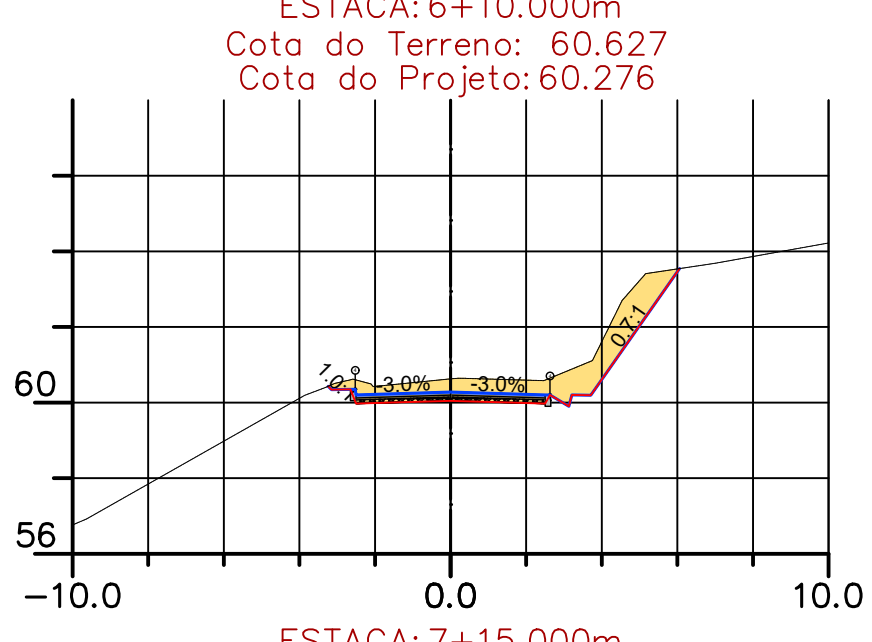
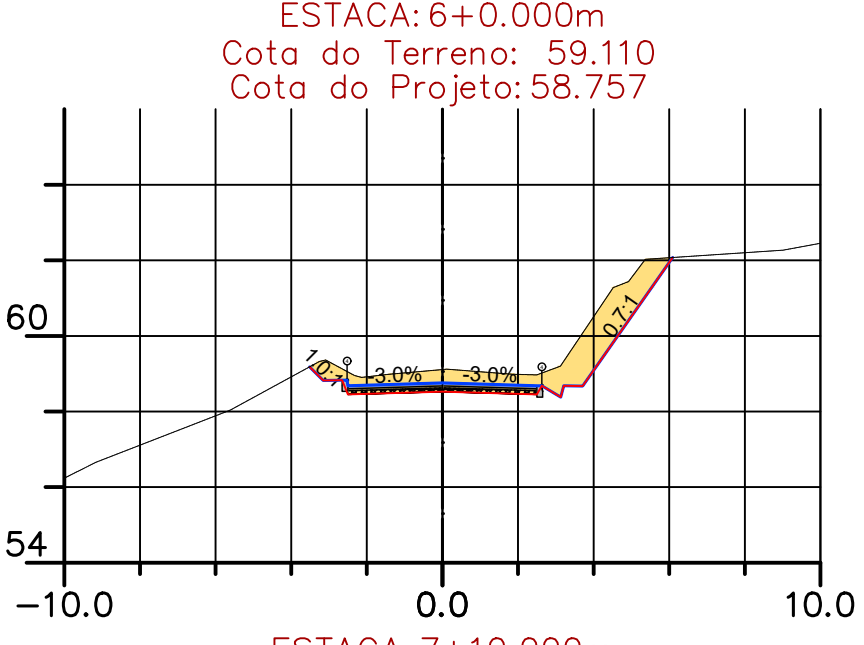
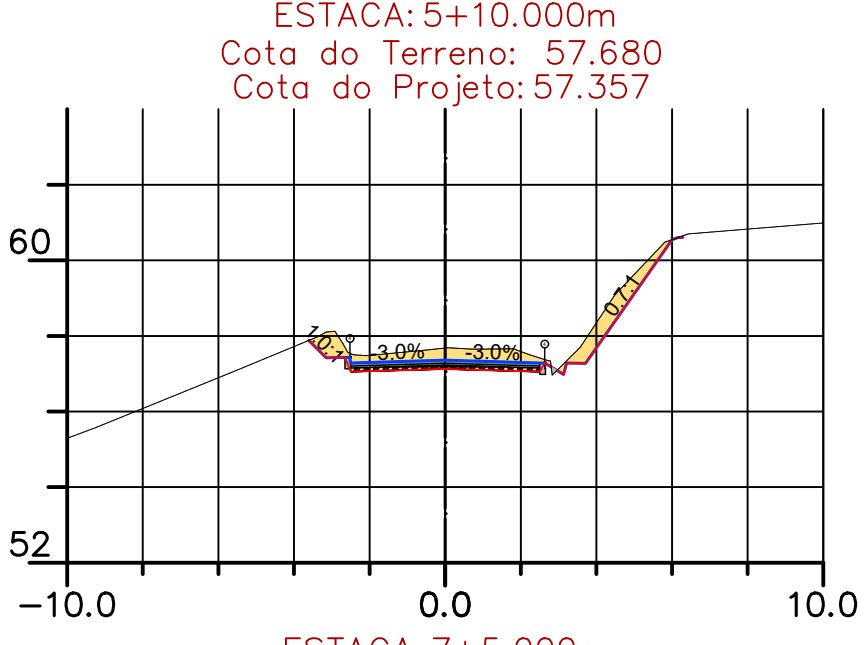
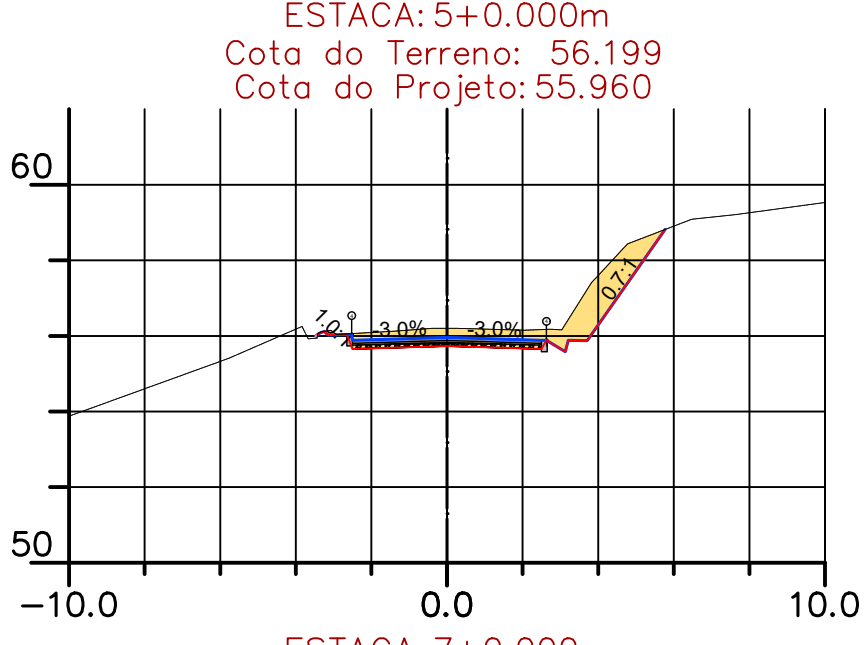
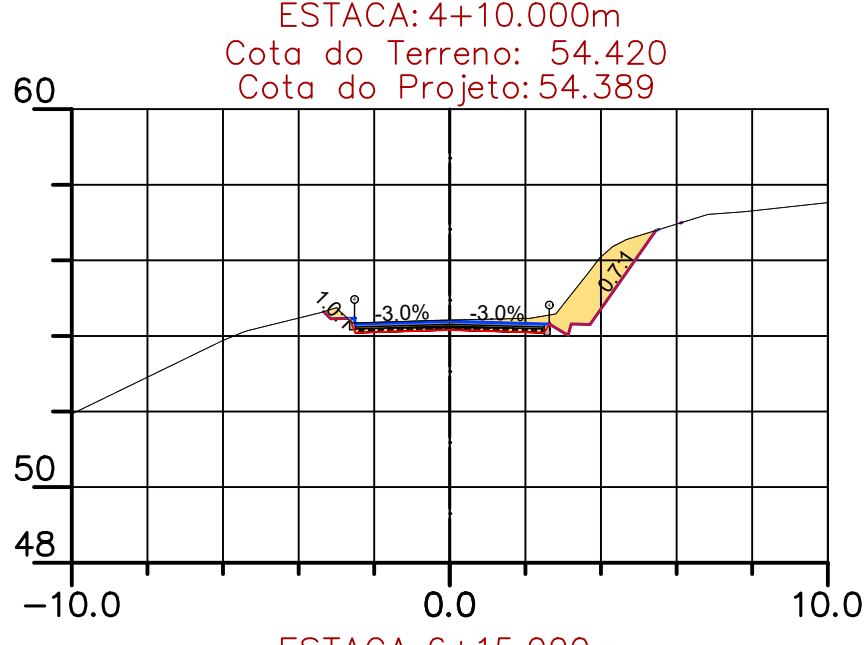
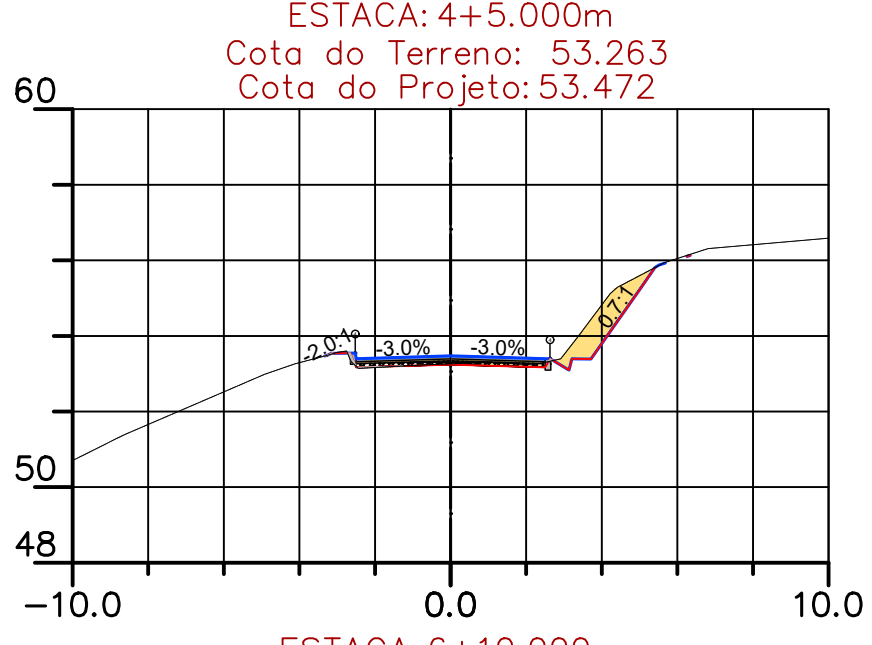
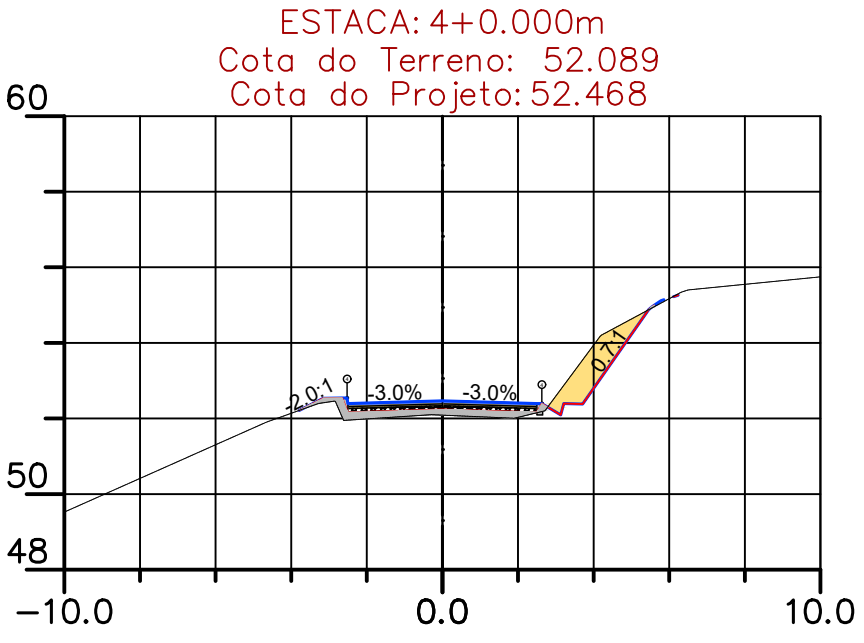
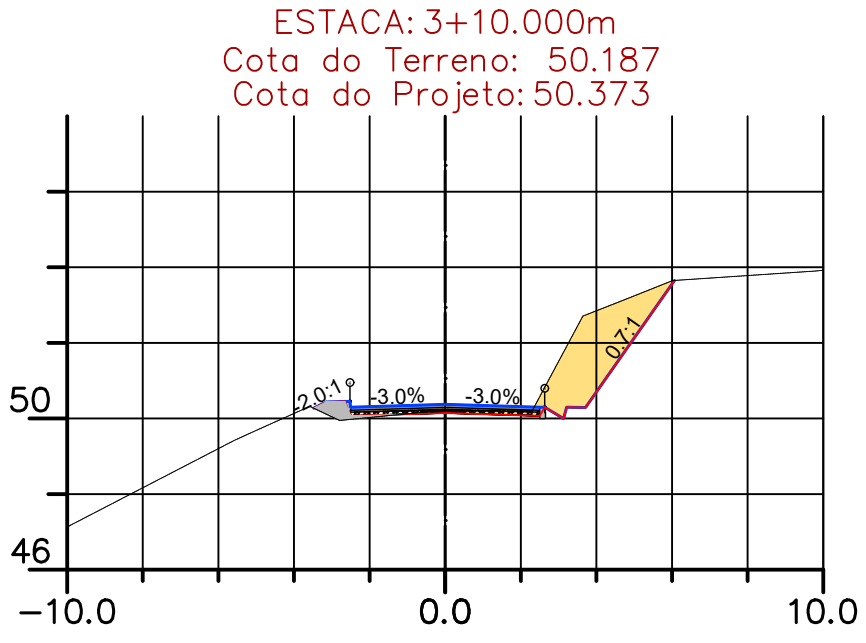
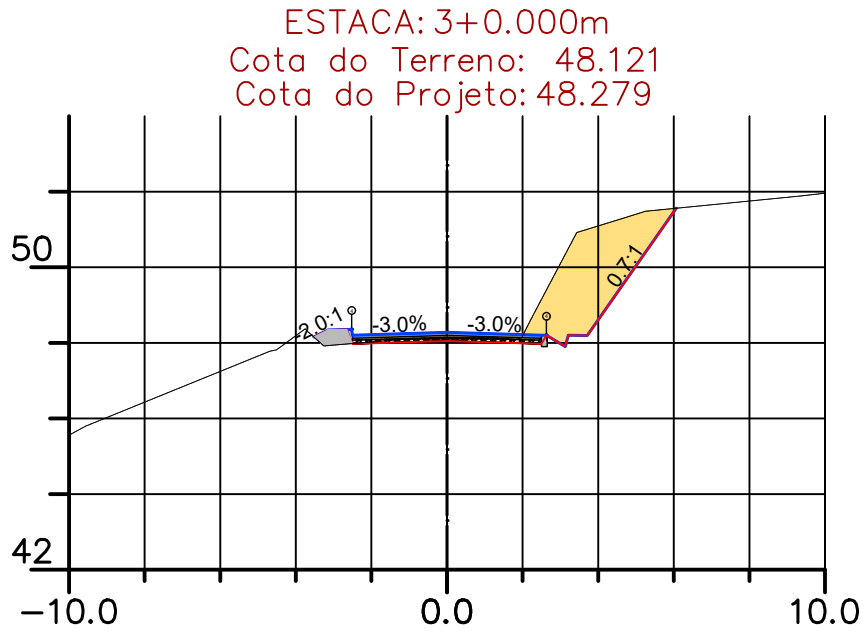
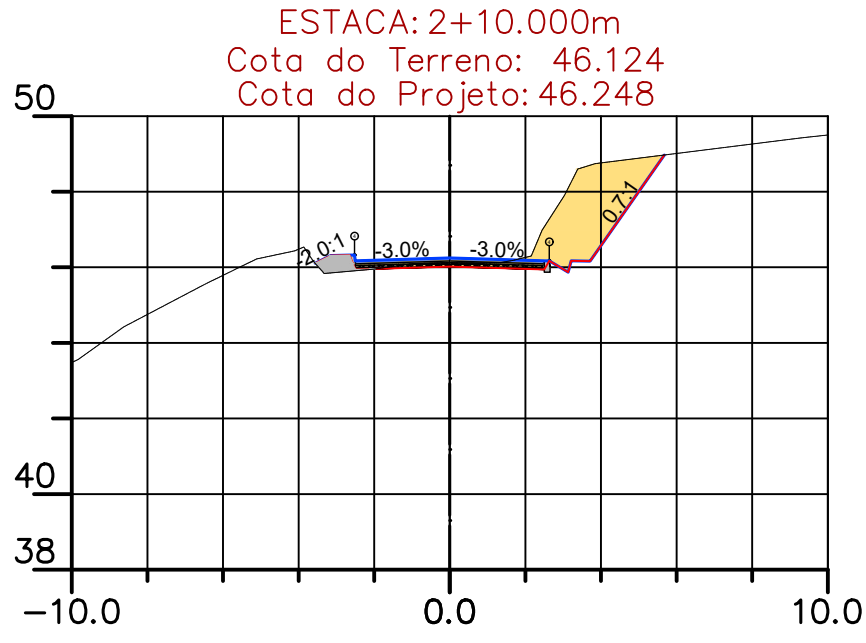
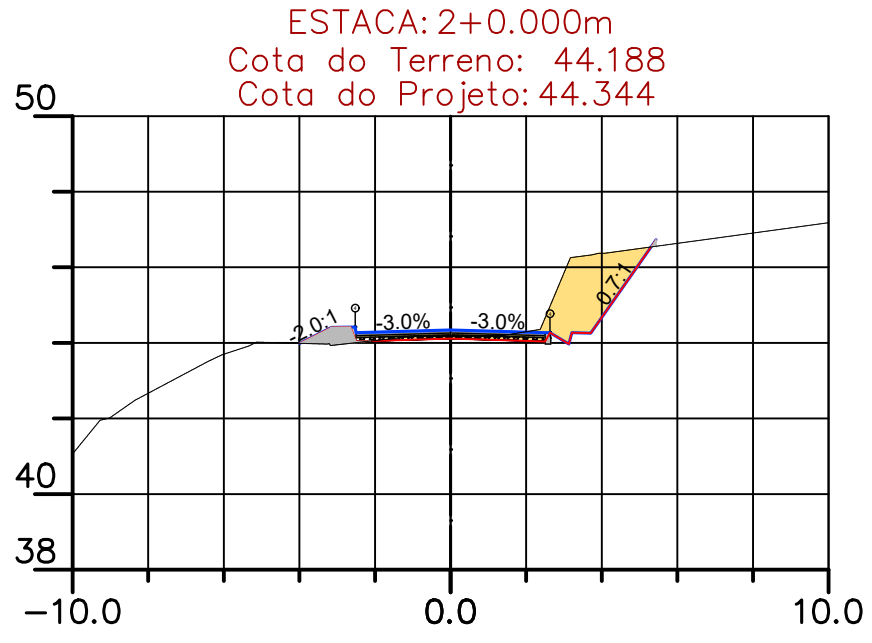
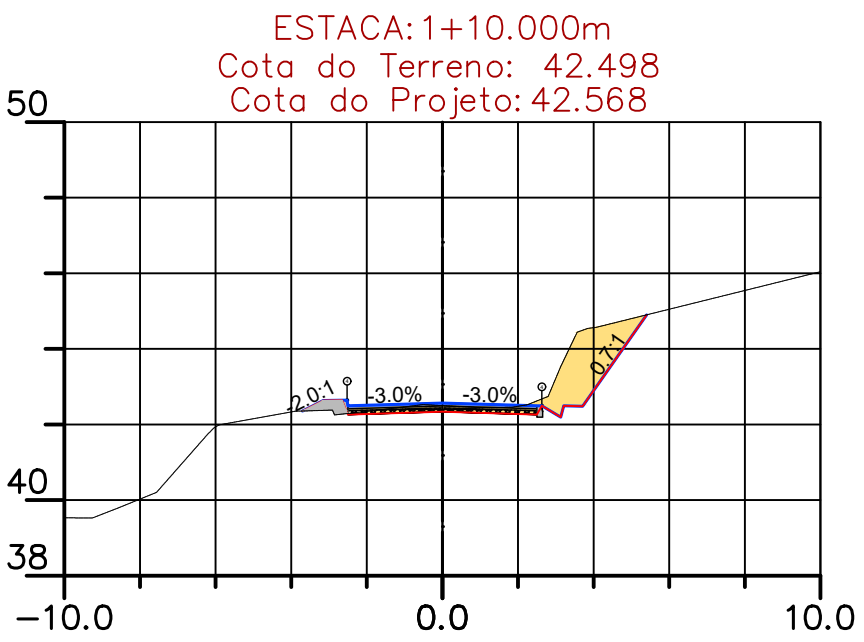
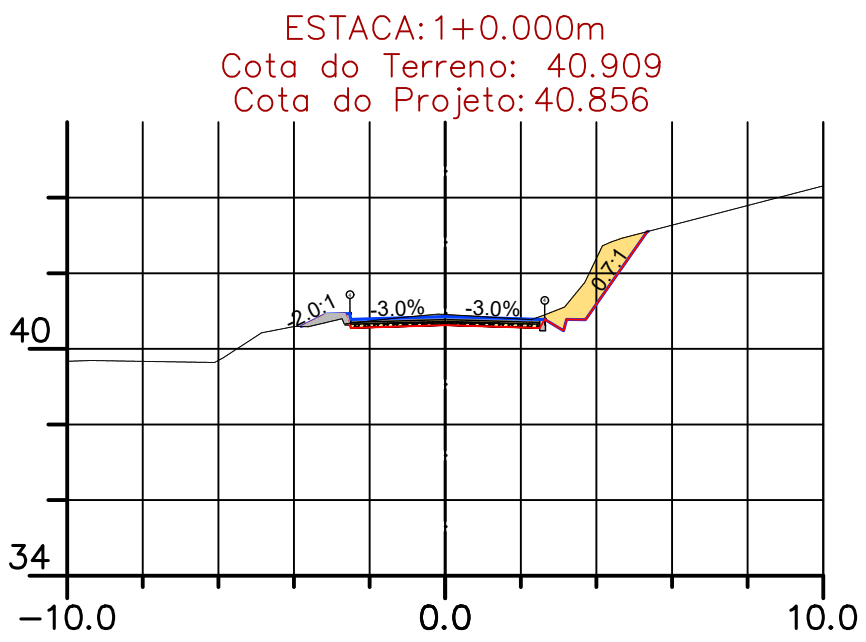
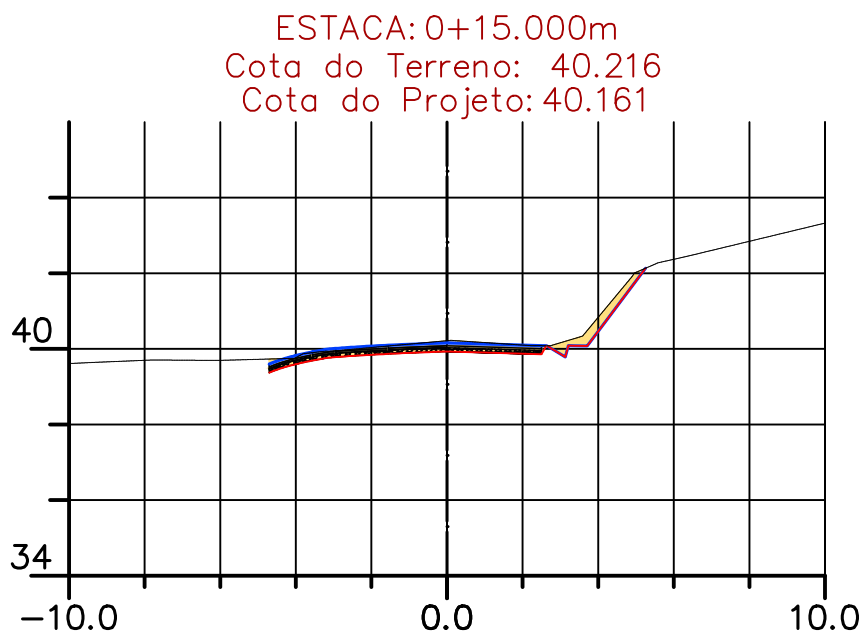
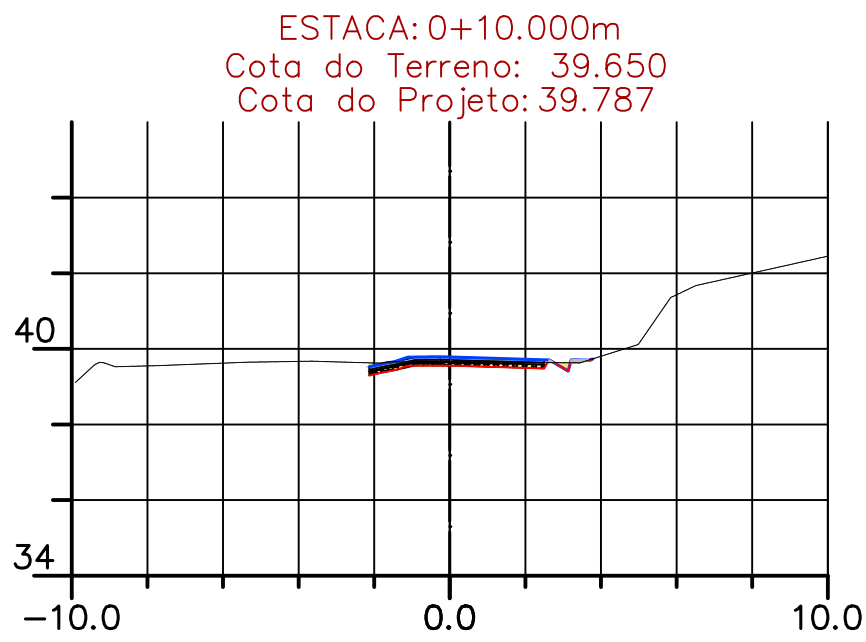
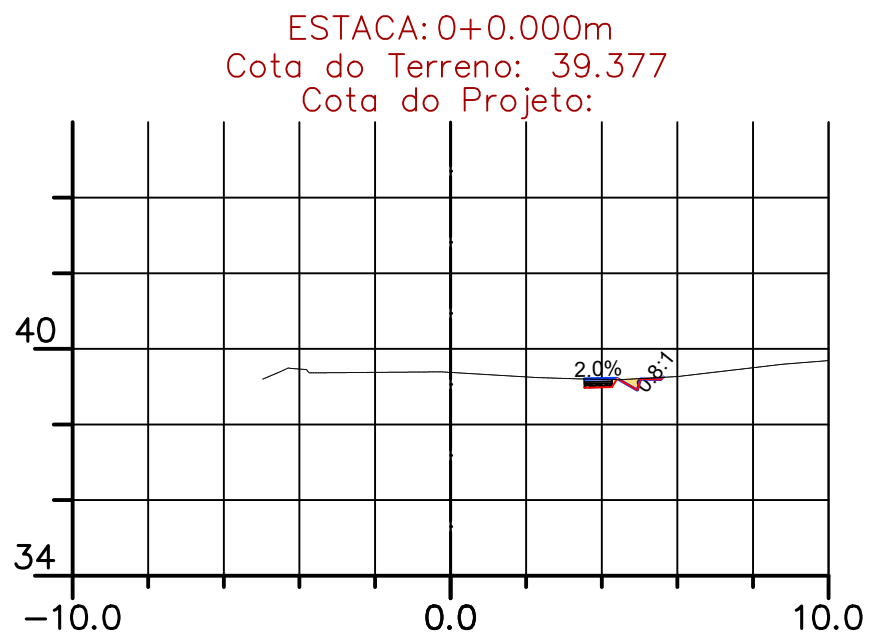


Via	Lado (m)	Orla interna (m)	Orla externa (m)
Urbana	0,248	0,02	0,01

EMIÇÃO INICIAL	15/02/2023	001
QUADRO DE REVISÃO	DATA	NÚMERO

MUNICÍPIO PAULO LOPES - SC

OBRA RUA ROGER VANDERLIN	CONTEÚDO PROJETO DE PAVIMENTAÇÃO EM BLOCOS SEXTAVADOS DE CONCRETO PERFIL LONGITUDINAL TABELAS DE ALINHAMENTO, DETALHES PLACAS		
PROJETO VINÍCIUS FELLER Engenheiro Civil CREA/SC 147.982-3	APROVAÇÃO DA PREFEITURA		
DATA FEVEREIRO/2023	ESCALA 1:500	PRANCHA 03/05	

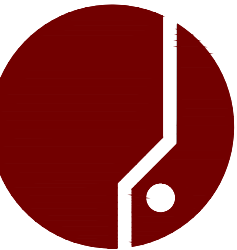


VOLUME TOTAL							
Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)	Volum. Corte Acum. (m³)	Volum. Aterro Acum. (m³)	Volume Líquido (m³)
0+0.00	0,27	0,00	0,00	0,00	0,00	0,00	0,00
0+10.00	0,73	0,03	5,00	0,17	5,00	0,17	4,83
0+15.00	2,37	0,00	7,73	0,08	12,74	0,26	12,48
1+0.00	3,12	0,19	14,05	0,46	26,79	0,71	26,07
1+10.00	3,77	0,25	35,14	2,18	61,92	2,89	59,03
2+0.00	4,19	0,47	39,77	3,60	101,69	6,49	95,20
2+10.00	5,65	0,39	49,16	4,26	150,86	10,75	140,11
3+0.00	6,74	0,32	61,93	3,52	212,79	14,28	198,51
3+10.00	5,04	0,37	58,89	3,46	271,68	17,73	253,95
4+0.00	1,84	0,99	33,70	6,84	305,38	24,57	280,81
4+5.00	1,85	0,04	8,78	2,60	314,15	27,16	286,99
4+10.00	4,06	0,00	14,26	0,12	328,41	27,28	301,13
5+0.00	5,00	0,00	44,88	0,03	373,29	27,31	345,98
5+10.00	4,41	0,01	46,00	0,09	419,29	27,40	391,89
6+0.00	6,42	0,00	53,05	0,07	472,34	27,47	444,87
6+10.00	6,04	0,00	62,31	0,00	534,65	27,47	507,18
6+15.00	8,24	0,00	37,00	0,00	571,64	27,47	544,18
7+0.00	7,64	0,00	42,46	0,01	614,11	27,47	586,63
7+5.00	8,92	0,00	44,51	0,01	658,61	27,48	631,14
7+10.00	10,42	0,01	52,59	0,01	711,21	27,49	683,72
7+15.00	9,00	0,00	50,51	0,01	761,71	27,50	734,21
8+0.00	7,99	0,00	43,07	0,00	804,78	27,50	777,28
8+5.00	10,13	0,00	45,98	0,00	850,76	27,50	823,25
8+10.00	12,54	0,00	57,62	0,00	908,37	27,50	880,87
9+0.00	9,56	0,00	110,49	0,00	1018,86	27,50	991,36
9+5.00	6,67	0,08	42,07	0,19	1060,94	27,69	1033,24
9+10.00	6,37	0,04	34,26	0,29	1095,19	27,99	1067,21
10+0.00	4,70	0,07	57,23	0,57	1152,43	28,56	1123,87
10+10.00	4,89	0,02	48,73	0,44	1201,15	29,00	1172,16
11+0.00	3,21	0,02	40,51	0,16	1241,67	29,16	1212,51

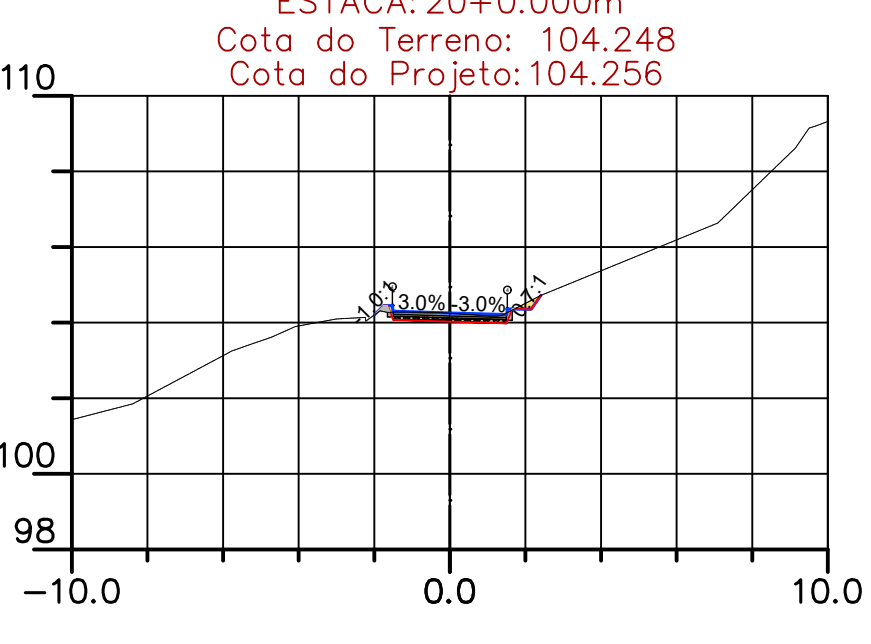
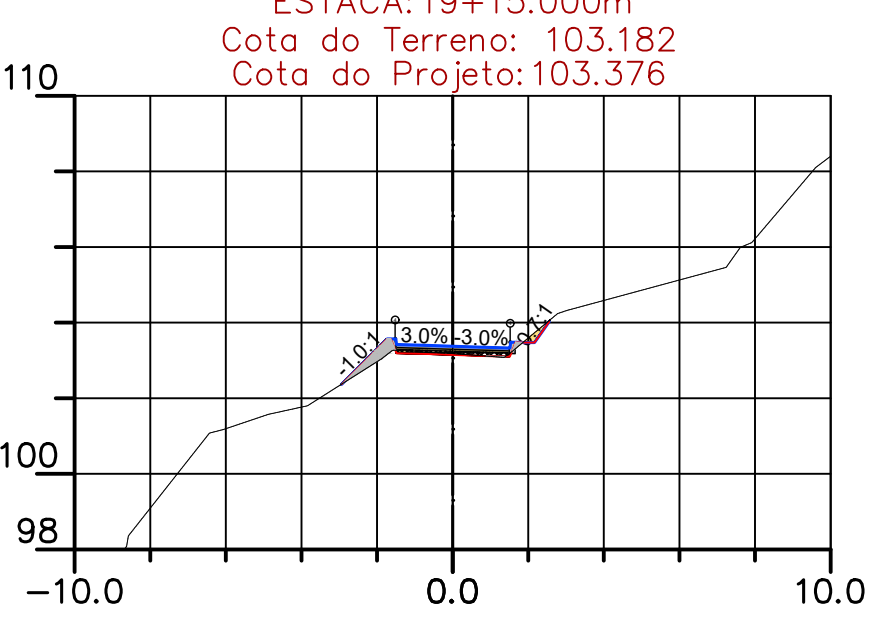
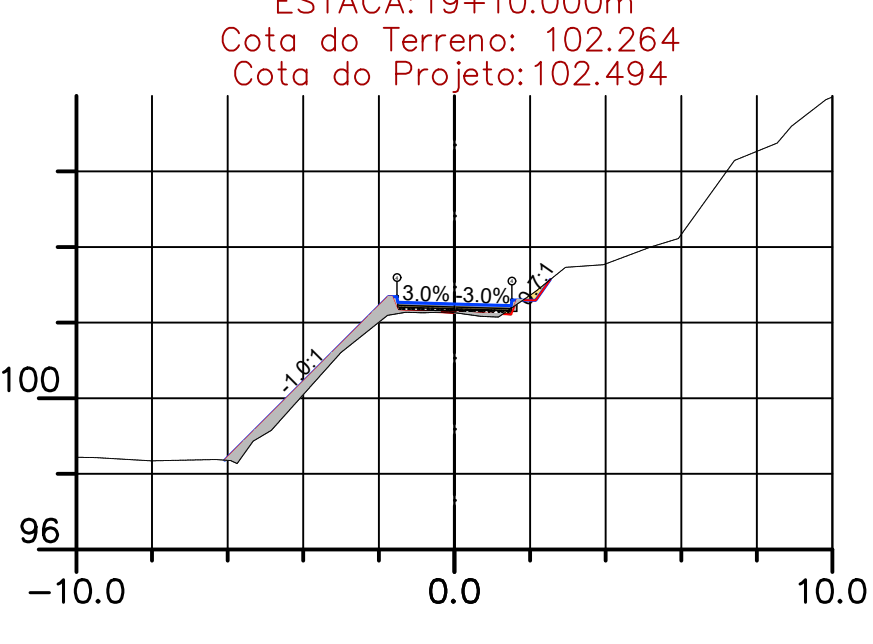
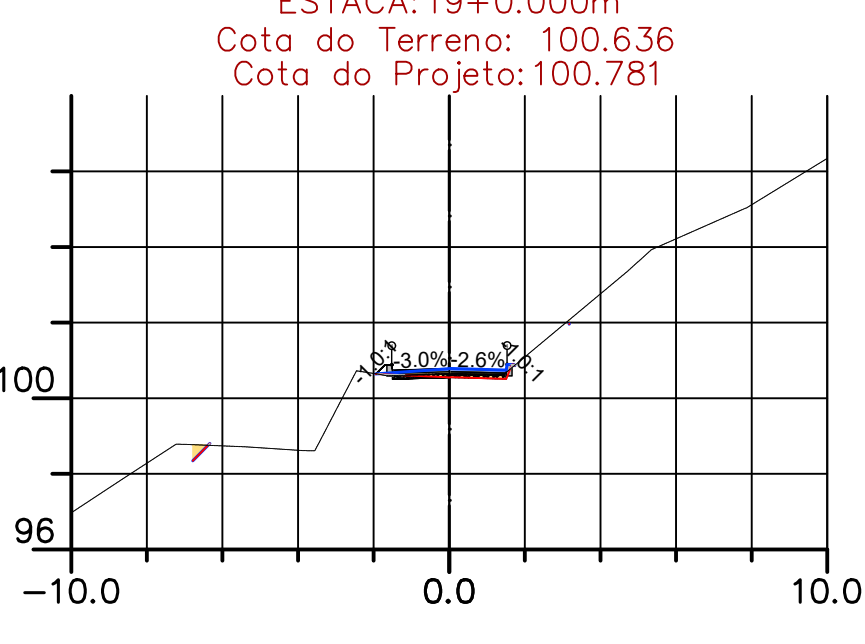
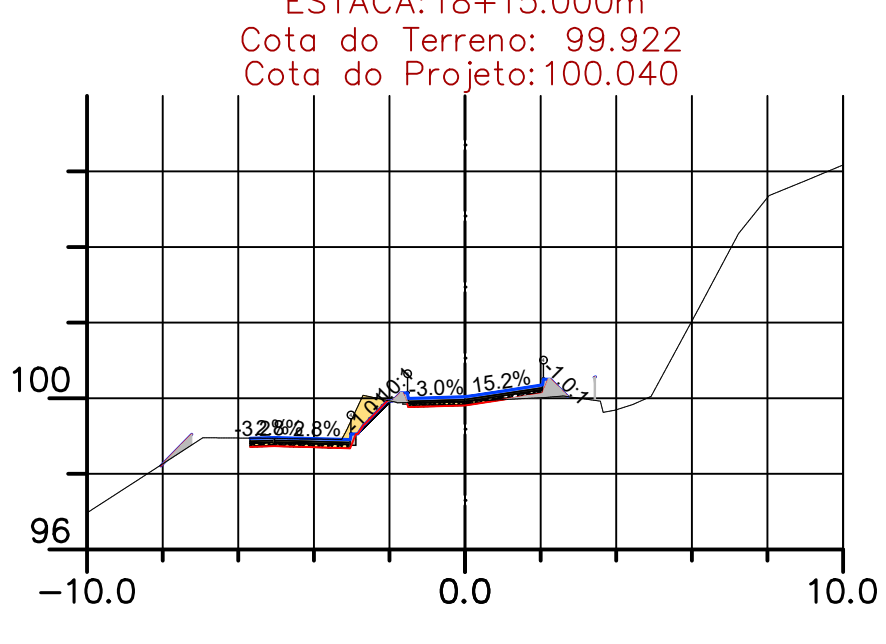
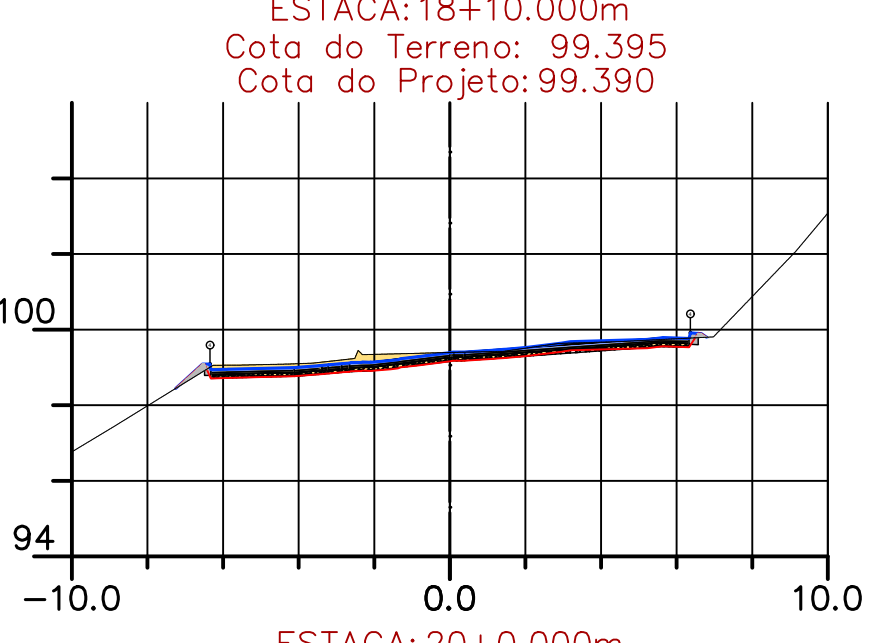
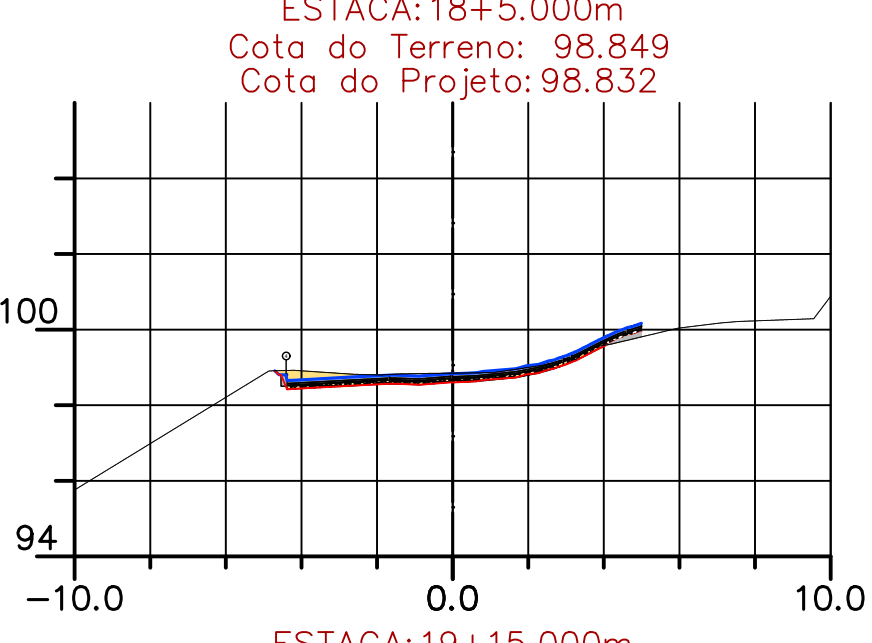
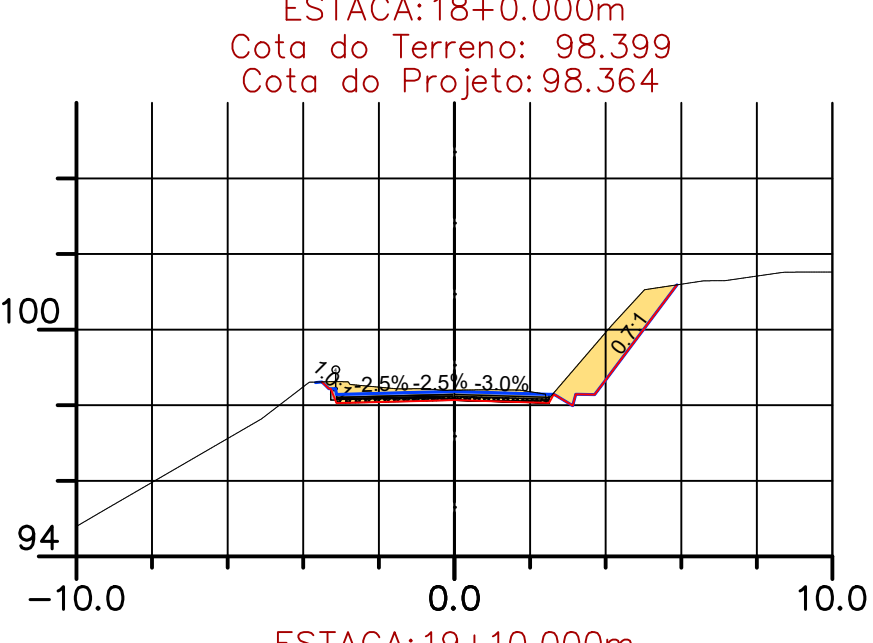
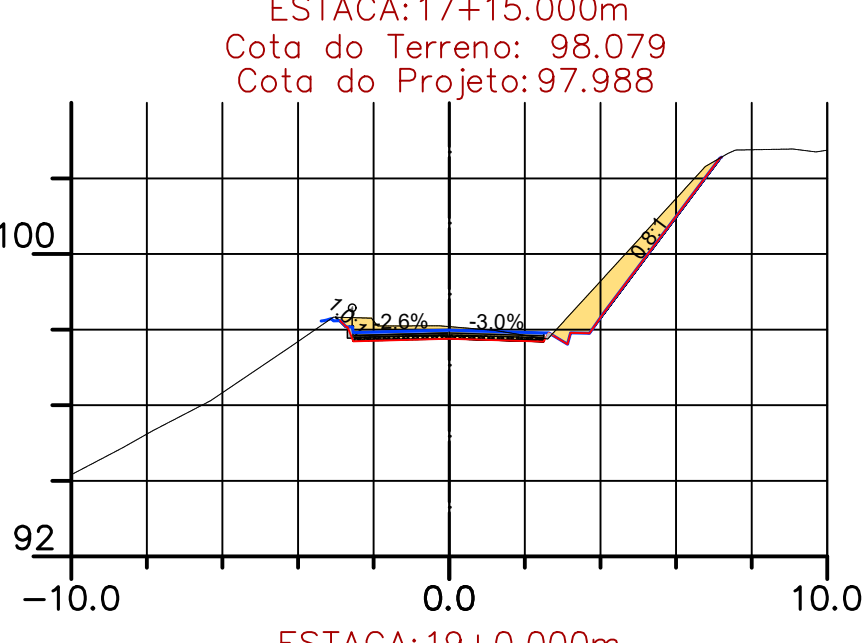
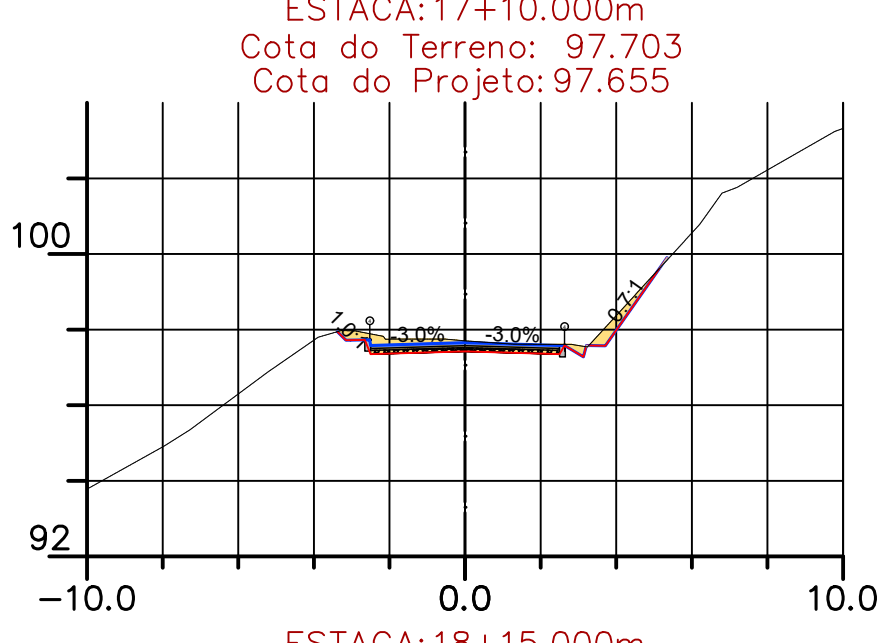
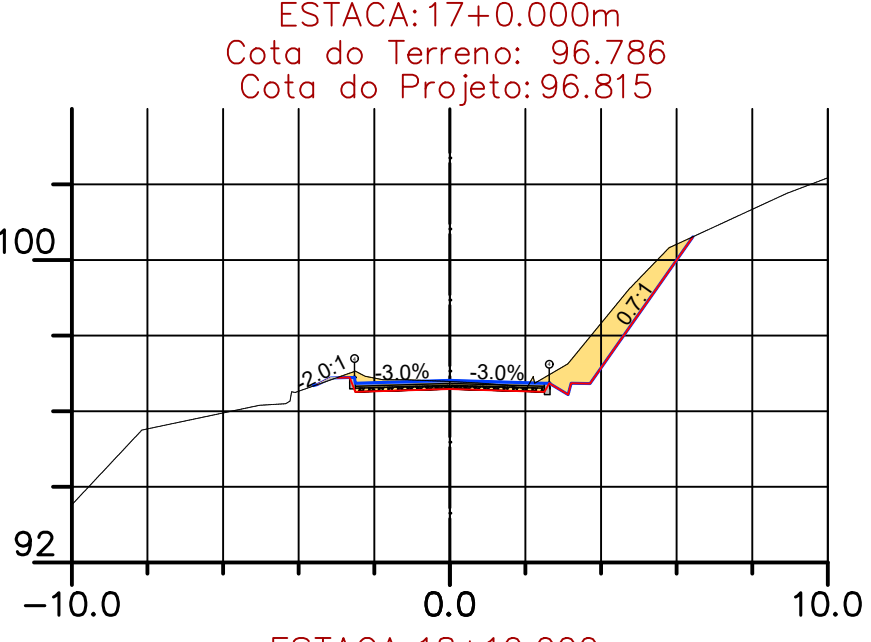
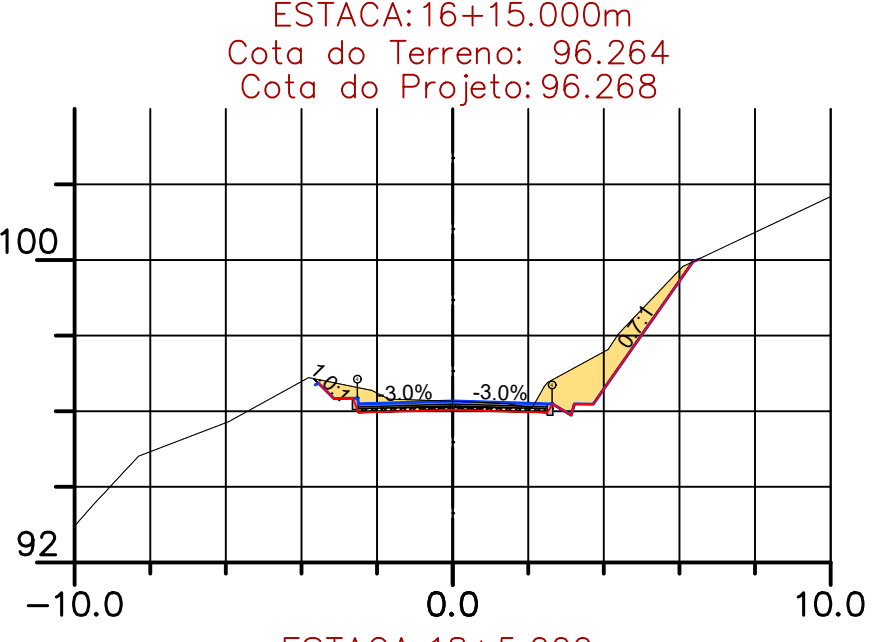
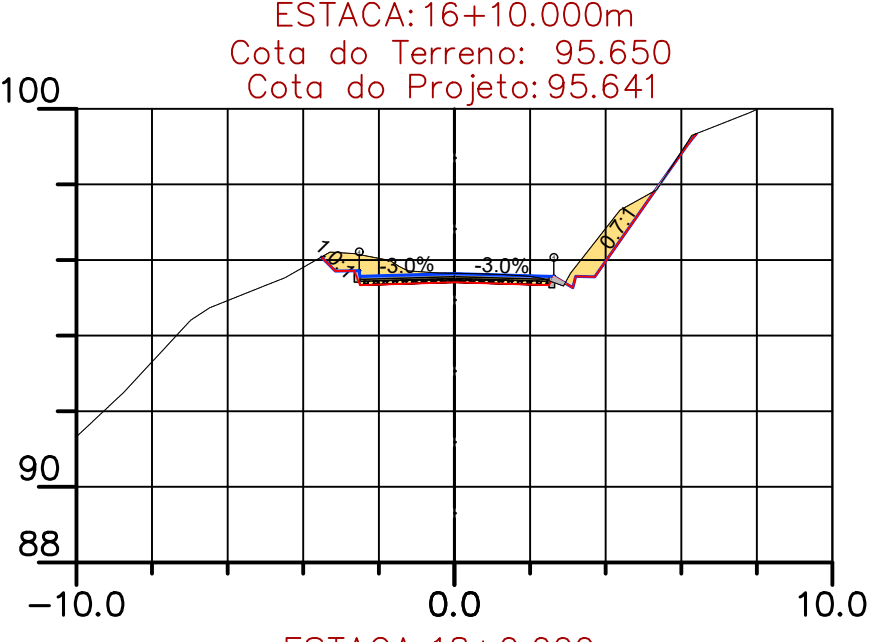
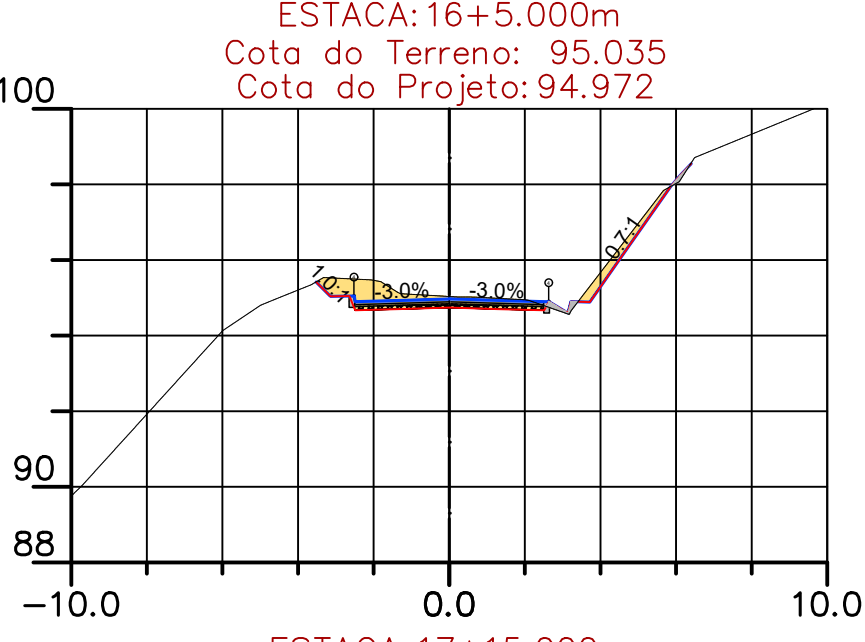
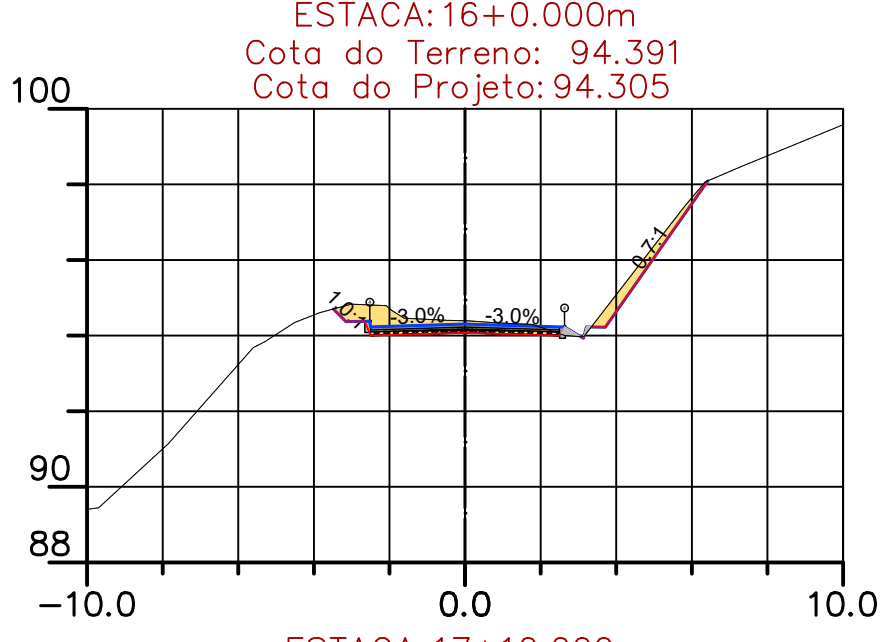
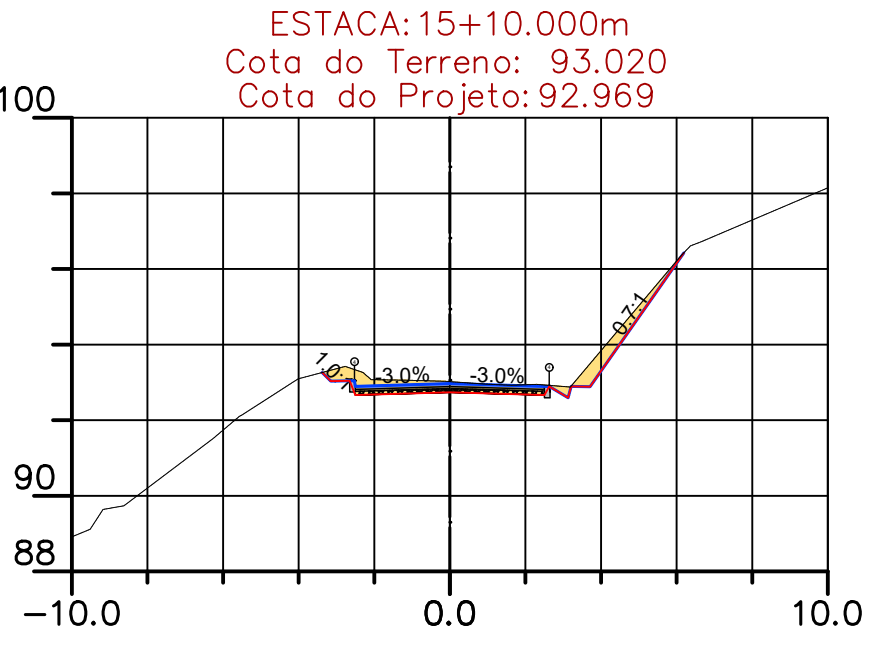
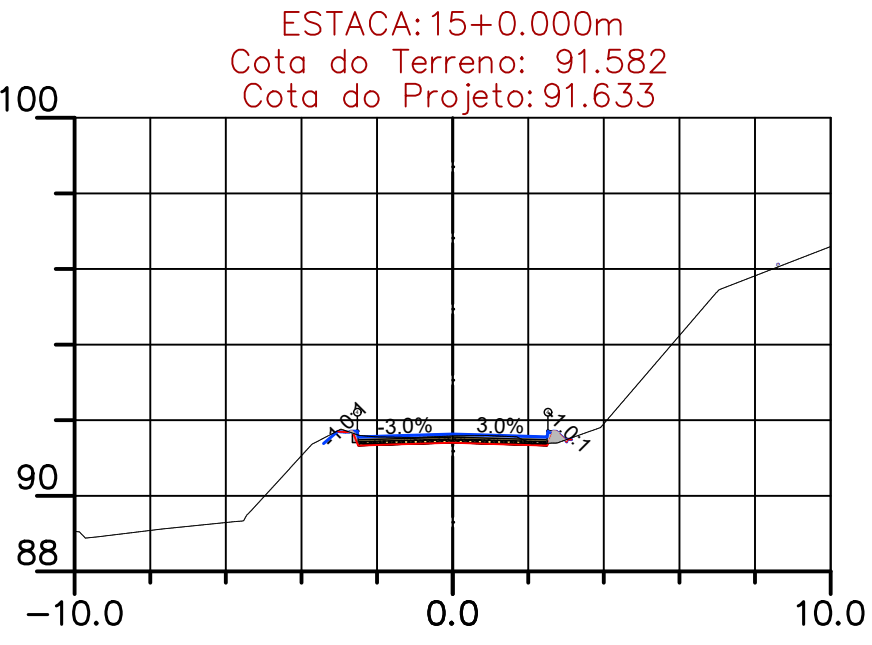
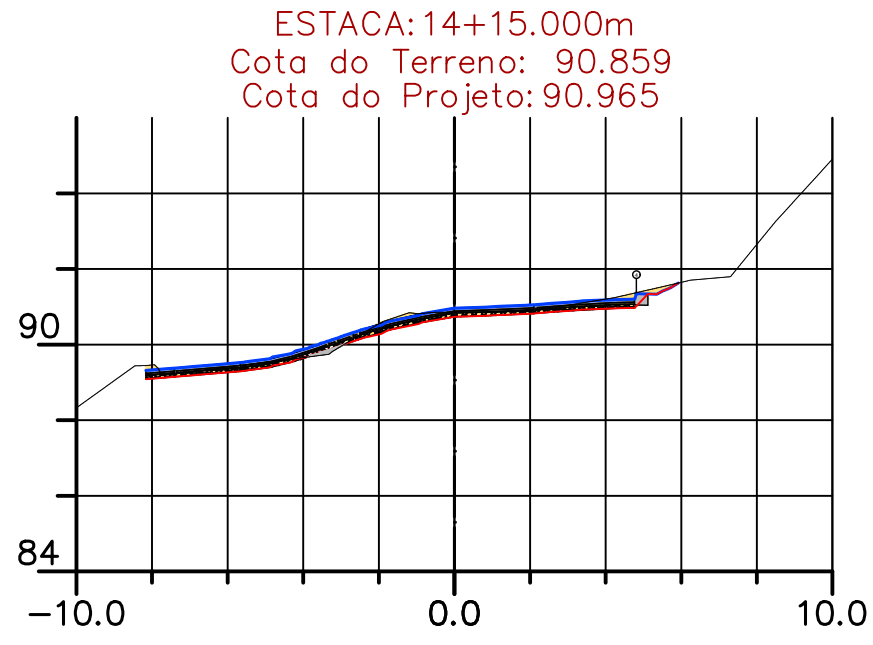
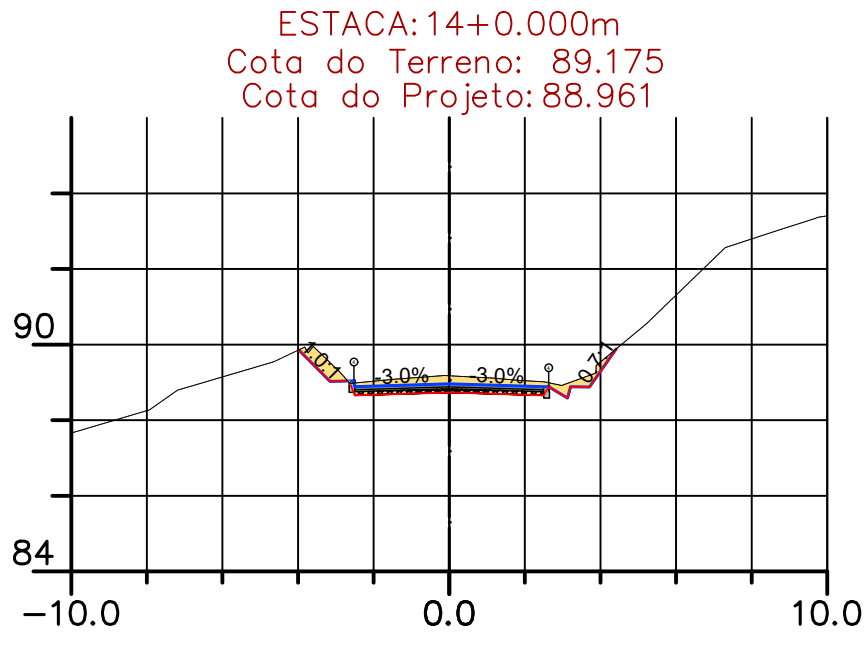
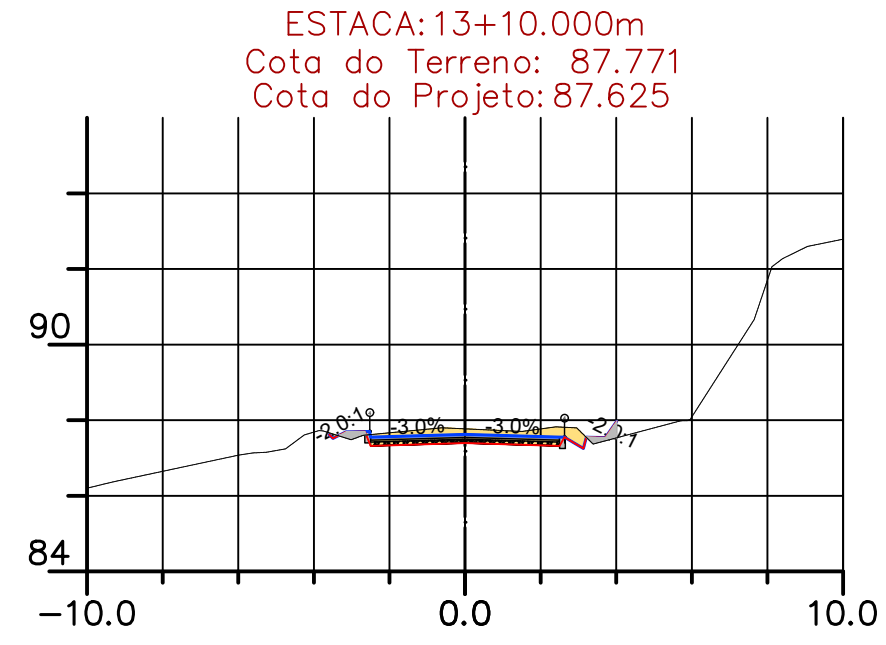
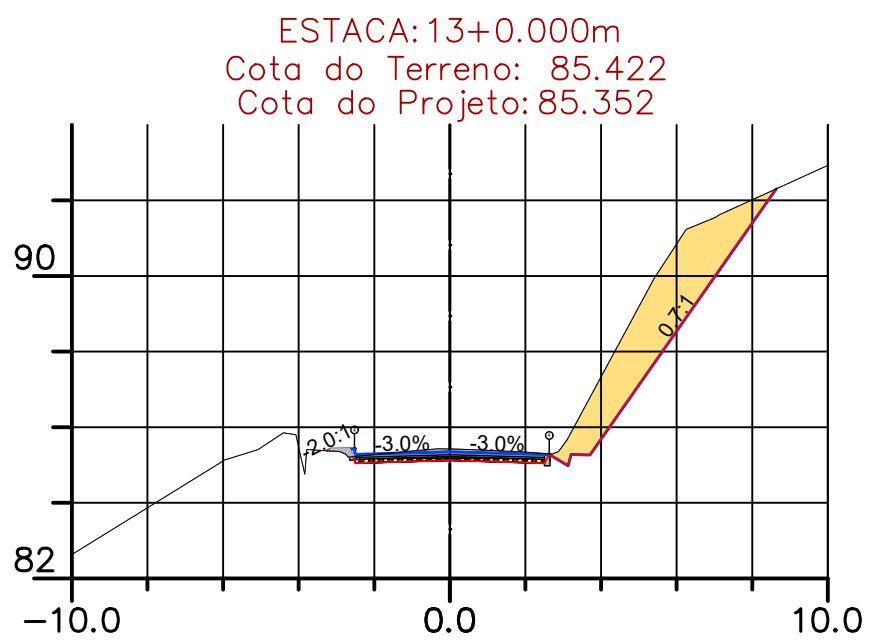
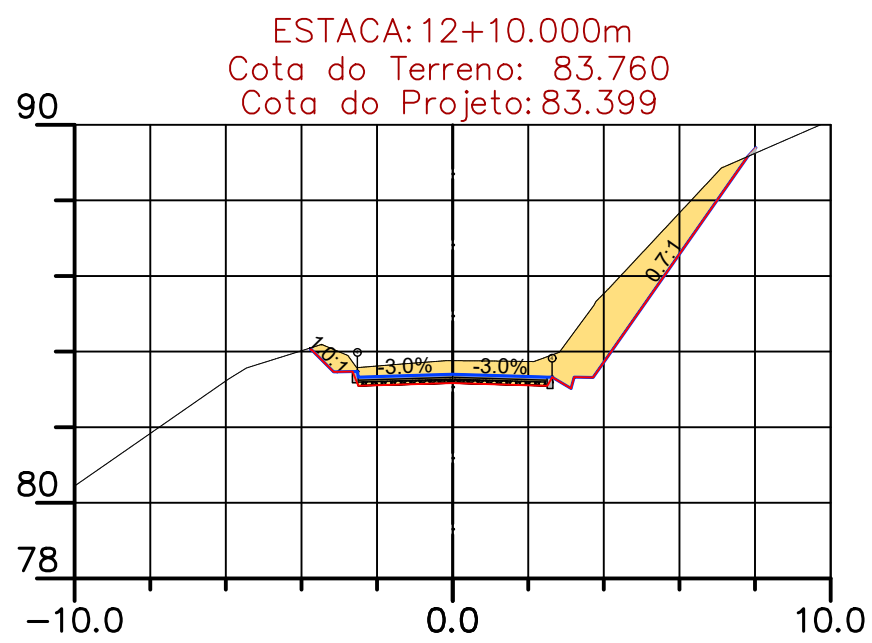
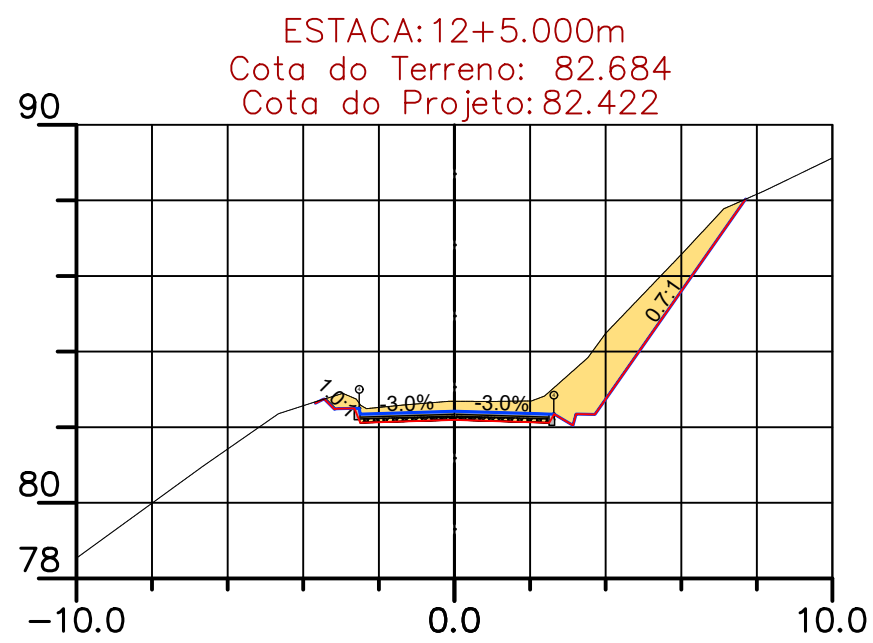
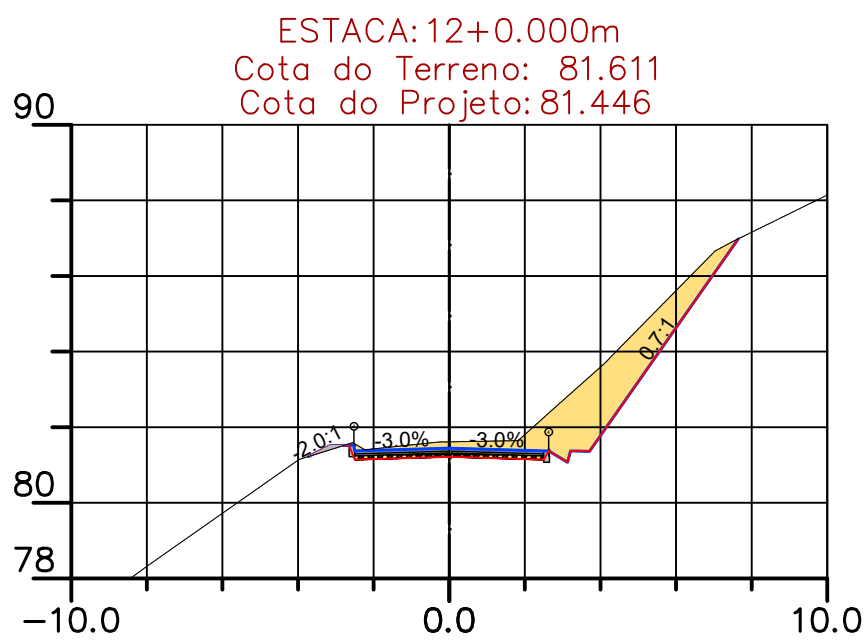
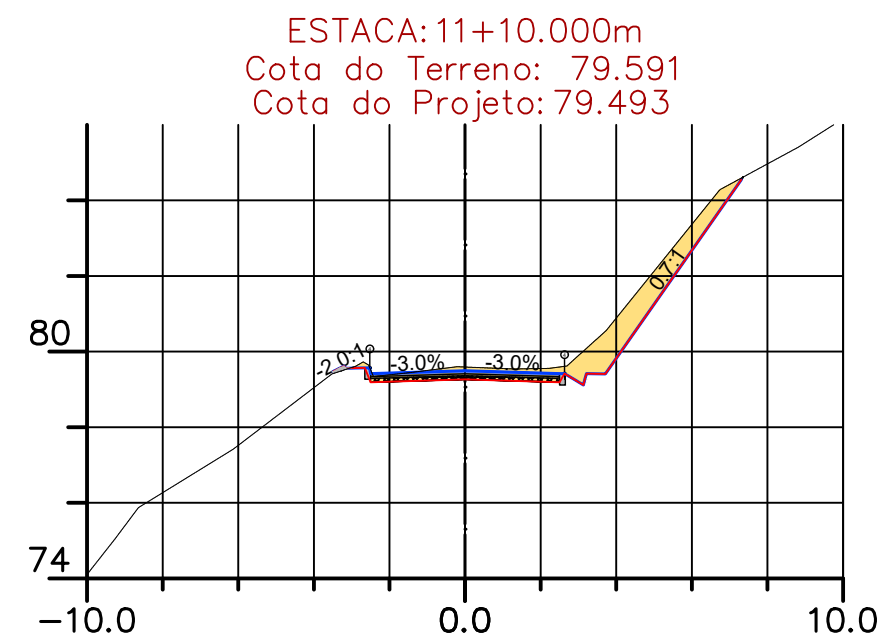
EMISSION INICIAL	15/02/2023	001
QUADRO DE REVISÃO	DATA	NÚMERO

PROJETO DE PAVIMENTAÇÃO

MUNICÍPIO		PAULO LOPES - SC	
OBRA		CONTEÚDO	
RUA ROGER VANDERLIN		PROJETO DE PAVIMENTAÇÃO EM BLOCOS SEXTAVADOS DE CONCRETO SEÇÕES DE TERRAPLANAGEM	
PROJETO		APROVAÇÃO DA PREFEITURA	
VINÍCIUS FELLER Engenheiro Civil CREA/SC 147.982-3			
DATA	FEVEREIRO/2023	ESCALA	PRANCHA
		1:200	04/05



ASSOCIAÇÃO DOS MUNICÍPIOS
DA REGIÃO DA GRANDE FLORIANÓPOLIS
"GRANFOLIS"
ASSESSORIA DE ENGENHARIA E ARQUITETURA



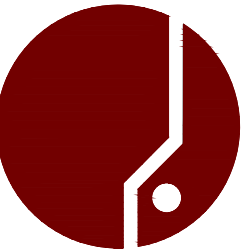
VOLUME TOTAL

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)
11+10.00	5.03	0.03	41.20	0.22	1282.87	29.38	1253.49
12+0.00	8.35	0.05	66.88	0.39	1349.75	29.77	1319.98
12+5.00	8.47	0.00	41.46	0.13	1391.21	29.90	1361.31
12+10.00	9.51	0.02	44.29	0.04	1435.50	29.94	1405.56
13+0.00	10.02	0.06	97.70	0.38	1533.19	30.32	1502.87
13+10.00	2.19	0.24	61.06	1.48	1594.25	31.80	1562.45
14+0.00	2.84	0.00	25.14	1.18	1619.39	32.98	1586.41
14+15.00	2.10	0.06	37.31	0.52	1656.70	33.50	1623.19
15+0.00	0.94	0.09	7.44	0.38	1664.14	33.88	1630.25
15+10.00	2.91	0.00	19.21	0.44	1683.35	34.33	1649.02
16+0.00	3.13	0.08	30.19	0.39	1713.54	34.72	1678.82
16+5.00	3.05	0.12	15.39	0.47	1728.93	35.19	1693.74
16+10.00	3.50	0.05	16.18	0.39	1745.11	35.58	1709.54
16+15.00	4.75	0.00	19.93	0.11	1765.05	35.69	1729.35
17+0.00	4.32	0.01	21.76	0.03	1786.80	35.73	1751.08
17+10.00	2.31	0.01	33.17	0.11	1819.97	35.83	1784.14
17+15.00	4.40	0.01	17.36	0.05	1837.33	35.89	1801.45
18+0.00	4.77	0.00	23.93	0.03	1861.26	35.92	1825.35
18+5.00	2.15	0.07	17.65	0.20	1878.92	36.12	1842.80
18+10.00	3.48	0.11	13.84	0.45	1892.76	36.57	1856.19
18+15.00	1.37	0.42	10.85	1.17	1903.61	37.73	1865.87
19+0.00	0.30	0.02	4.13	1.09	1907.73	38.82	1868.91
19+10.00	0.11	1.63	2.07	8.36	1909.81	47.18	1862.63
19+15.00	0.20	0.34	0.77	5.40	1910.57	52.58	1858.00
20+0.00	0.75	0.04	2.36	0.98	1912.94	53.55	1859.39

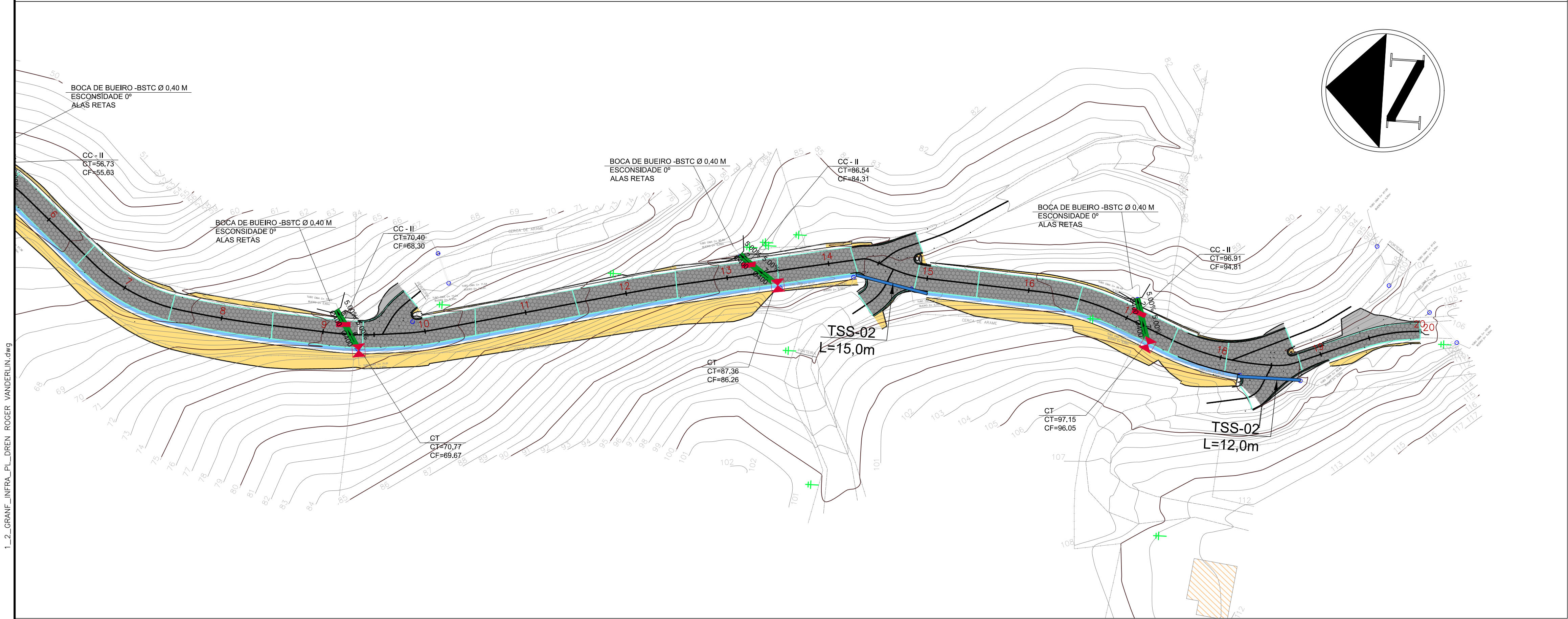
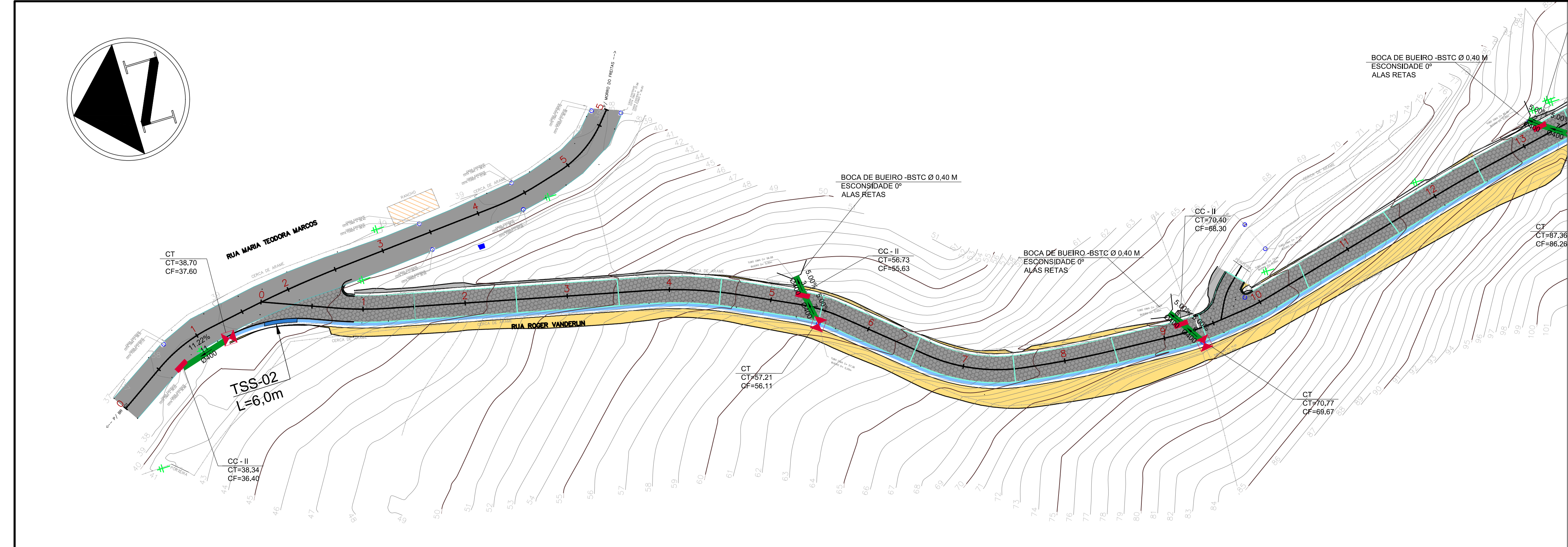
EMISSION INICIAL	15/02/2023	001
QUADRO DE REVISÃO	DATA	NÚMERO

PROJETO DE PAVIMENTAÇÃO

MUNICÍPIO	PAULO LOPES - SC	
OBRA	CONTEÚDO	
RUA ROGER VANDERLIN	PROJETO DE PAVIMENTAÇÃO EM BLOCOS SEXTAVADOS DE CONCRETO SEÇÕES DE TERRAPLANAGEM	
PROJETO	APROVAÇÃO DA PREFEITURA	
VINÍCIUS FELLER Engenheiro Civil CREA/SC 147.982-3		
DATA	FEVEREIRO/2023	PRANCHA
	1:200	05/05



ASSOCIAÇÃO DOS MUNICÍPIOS
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"GRANFOLIS"
ASSESSORIA DE ENGENHARIA E ARQUITETURA



LEGENDA

POSTE EXISTENTE

CADASTRO

CERCA DE ARAME

DRENAGEM EXISTENTE

MEIO-FIO 13X15X30X100cm

CORTE

ATERRO

PAVIMENTO PROJETADO

BORDOS EXISTENTES

EIXO DA PISTA DE TRÁFEGO

STC 07 - SARJETA TRIANGULAR DE CONCRETO

CT- CAIXA COLETORA DE TALVEGUE

CC - II - CAIXA DE CAPTAÇÃO COM GRELHA DE FERRO

BSTC - BUEIRO SIMPLES DE 40cm

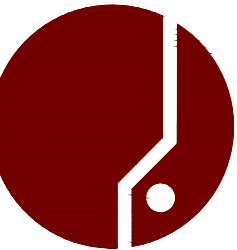
TSS 02 - TRANSPOSIÇÃO DE SARJETAS

BOCA DE BUEIRO

EMIÇÃO INICIAL	15/02/2023	001
QUADRO DE REVISÃO	DATA	NÚMERO

PROJETO DE DRENAGEM

MUNICÍPIO	PAULO LOPES - SC	
OBRA	CONTEÚDO	
RUA ROGER VANDERLIN	PROJETO DE DRENAGEM PLUVIAL	
	PLANTA BAIXA	
PROJETO	APROVAÇÃO DA PREFEITURA	
	VINÍCIUS FELLER Engenheiro Civil CREA/SC 147.982-3	
DATA	FEVEREIRO/2023	PRANCHA
	1:500	01/02



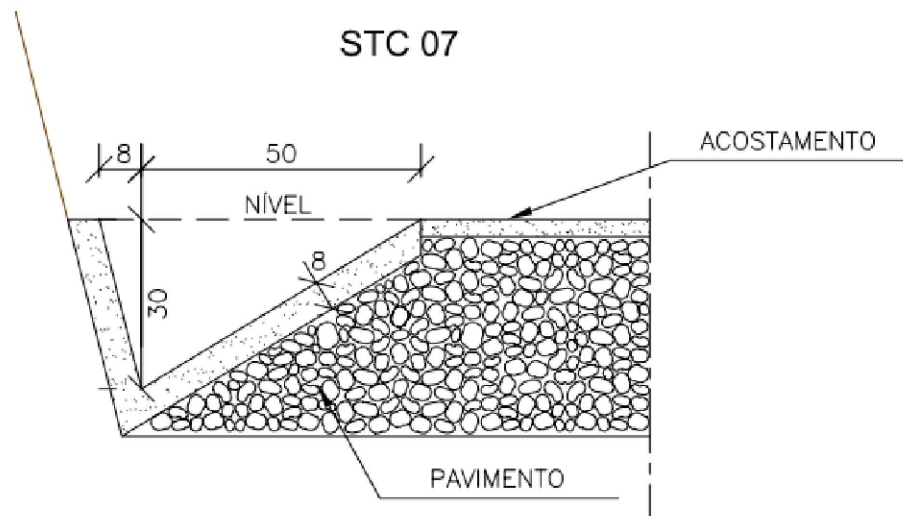
ASSOCIAÇÃO DOS MUNICÍPIOS
DA REGIÃO DA GRANDE FLORIANÓPOLIS
"GRANFOLIS"
ASSESSORIA DE ENGENHARIA E ARQUITETURA

15.02.2023
1.2_GRANF_INFRA_PL_DREN ROGER VANDERLIN.dwg
ENG. VINÍCIUS FELLER

TABELA DE ESTRUTURAS DA REDE DRENAGEM		
NOME	COTAS	PROFUNDIDADE (m)
BOCA DE BUEIRO - EST. 104.13		
BOCA DE BUEIRO - EST. 182.13		
BOCA DE BUEIRO - EST. 263.15		
BOCA DE BUEIRO - EST. 340.18		
CC - II - EST. ???	CT= 38.34 CF= 36.40	1.94
CC - II - EST. 105.99	CT= 56.73 CF= 55.63	1.10
CC - II - EST. 183.82	CT= 70.40 CF= 68.30	2.10
CC - II - EST. 264.54	CT= 86.54 CF= 84.31	2.23
CC - II - EST. 341.76	CT= 96.91 CF= 94.81	2.10
CT - EST. ???	CT= 38.70 CF= 37.60	1.10
CT - EST. 110.34	CT= 57.21 CF= 56.11	1.10
CT - EST. 187.06	CT= 70.77 CF= 69.67	1.10
CT - EST. 269.57	CT= 87.36 CF= 86.26	1.10
CT - EST. 345.98	CT= 97.15 CF= 96.05	1.10

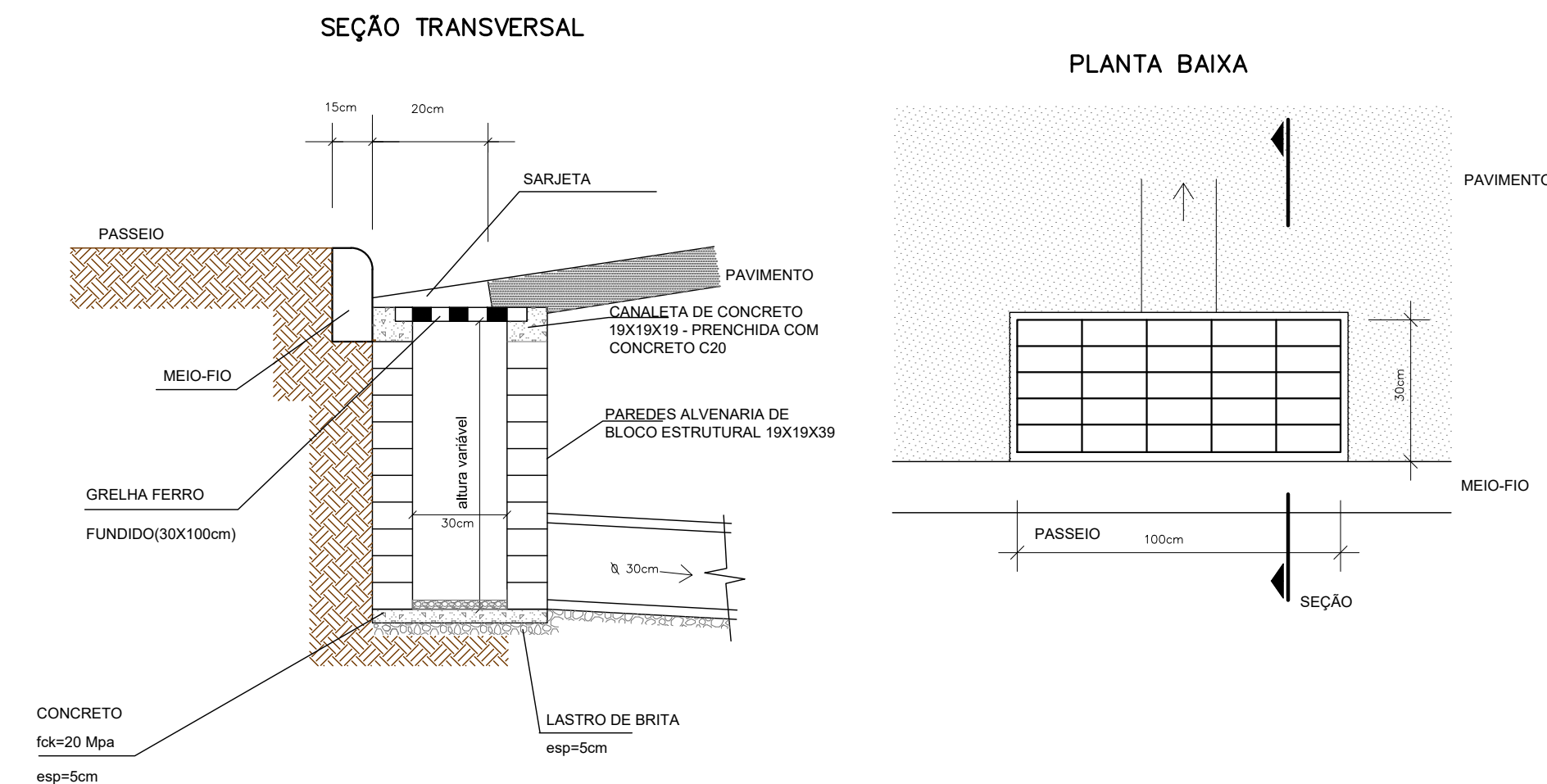
TABELA DE TUBOS DA REDE DRENAGEM			
TUBO	DN (m)	COMPRIMENTO (m)	DECLIVIDADE (%)
BSTC DN 0.40M CONCRETO - EST. ???	0.40	11	11.22%
BSTC DN 0.40M CONCRETO - EST. 105.99	0.40	3	5.00%
BSTC DN 0.40M CONCRETO - EST. 110.34	0.40	7	5.00%
BSTC DN 0.40M CONCRETO - EST. 183.82	0.40	3	5.00%
BSTC DN 0.40M CONCRETO - EST. 187.06	0.40	6	5.00%
BSTC DN 0.40M CONCRETO - EST. 341.76	0.40	2	5.00%
BSTC DN 0.40M CONCRETO - EST. 345.98	0.40	7	5.00%
BSTC DN 0.40M CONCRETO - EST. 264.54	0.40	2	5.00%
BSTC DN 0.40M CONCRETO - EST. 269.57	0.40	7	5.00%

SARJETA TRIANGULAR -STC 07

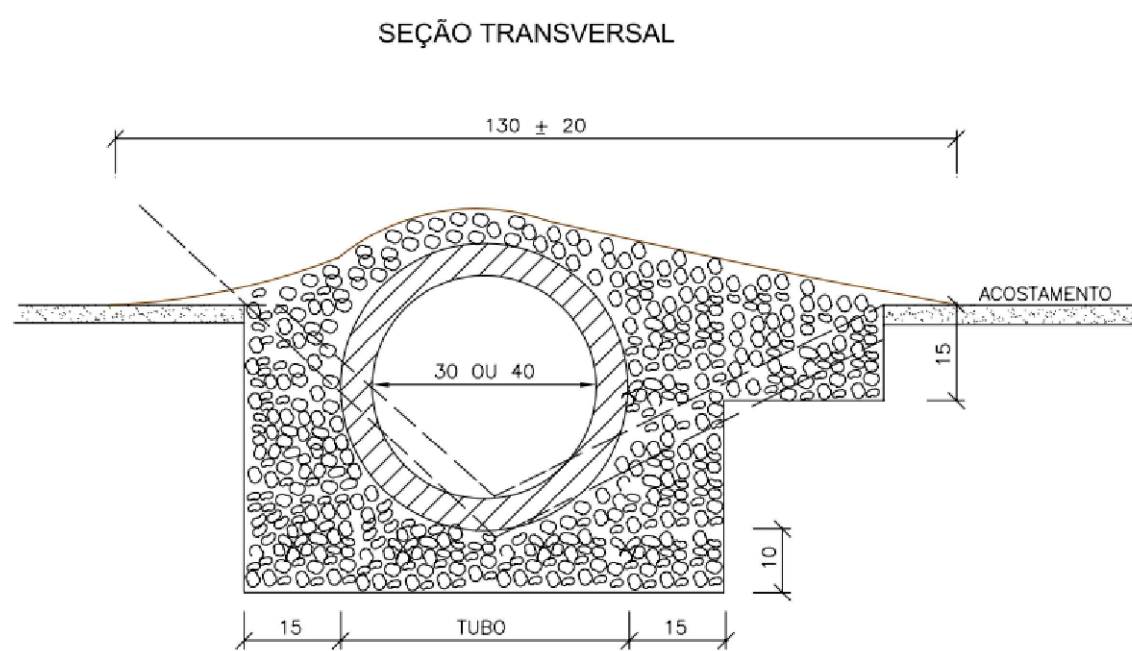


CONSUMOS MÉDIOS	
CONCRETO fck > 15MPa	0,071m³/m
GUIA DE MADEIRA (2,5cm x 8,0cm)	0,50m/m
ARGAMASSA ASFÁLTICA	0,13kg/m
FORMAS DE MADEIRA COMUM	0,31m²/m
SOLO LOCAL (EVENTUAL)	≤ 0,20m³/m

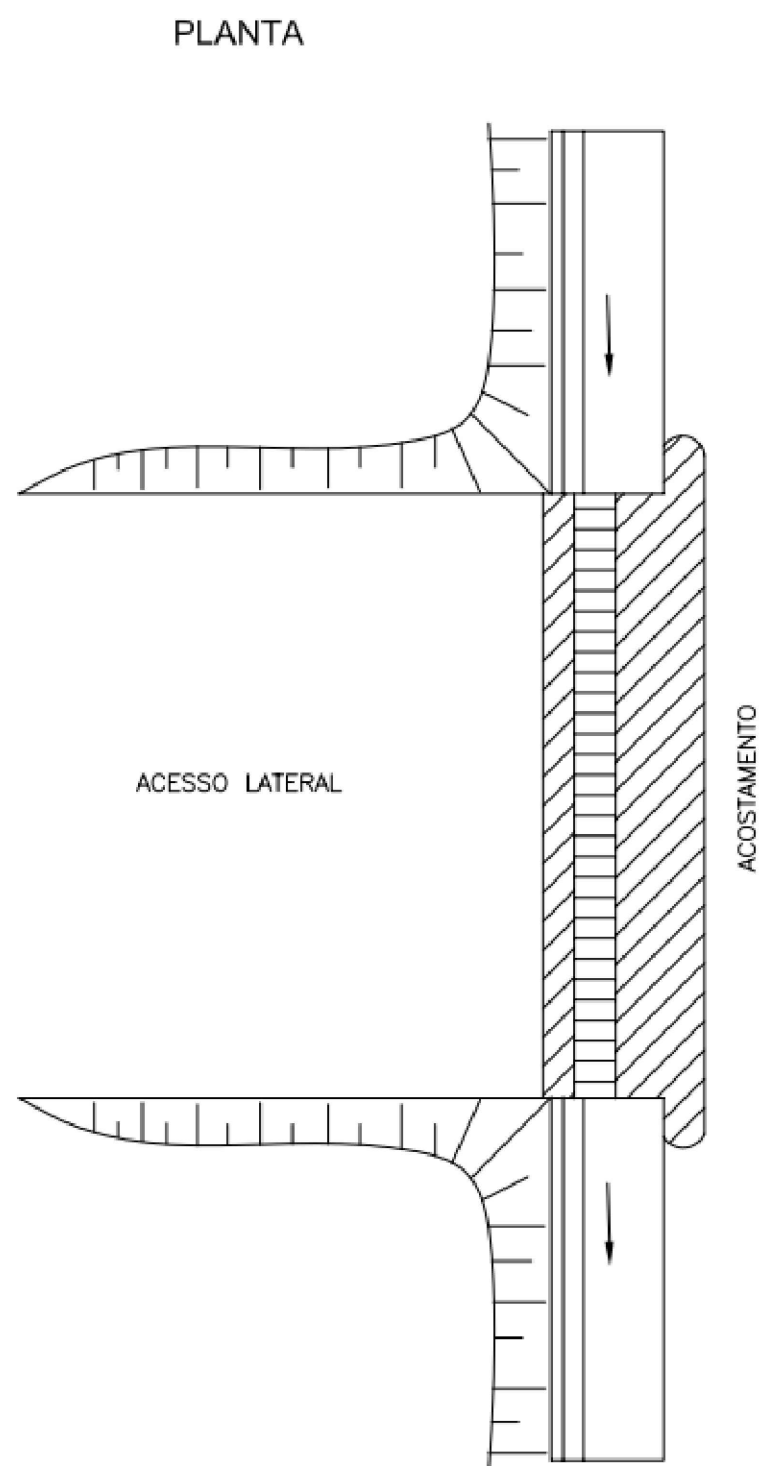
CAIXA COLETORA COM GRELHA - CC II



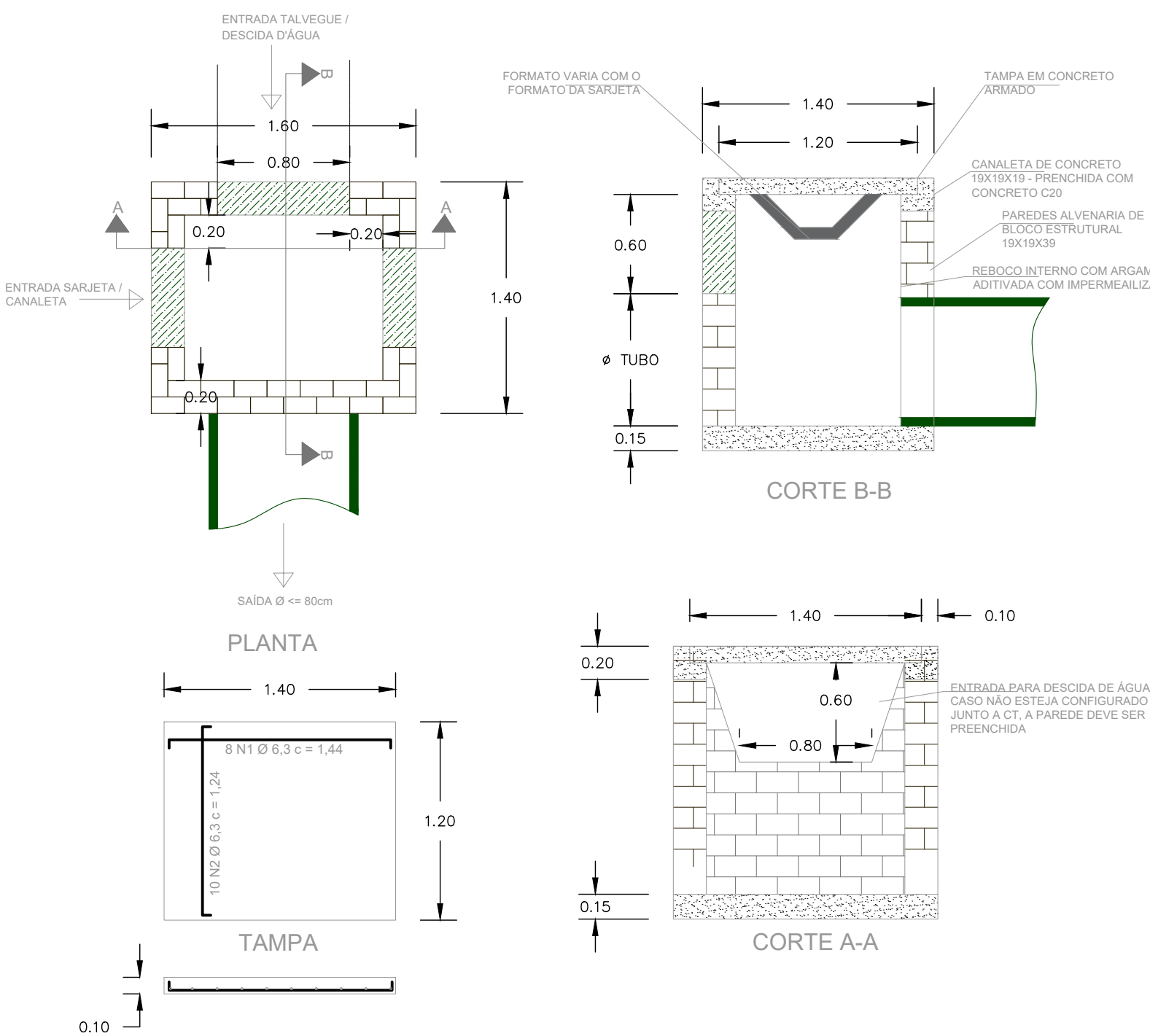
TRANSPOSIÇÃO DE SARJETAS -TSS 02



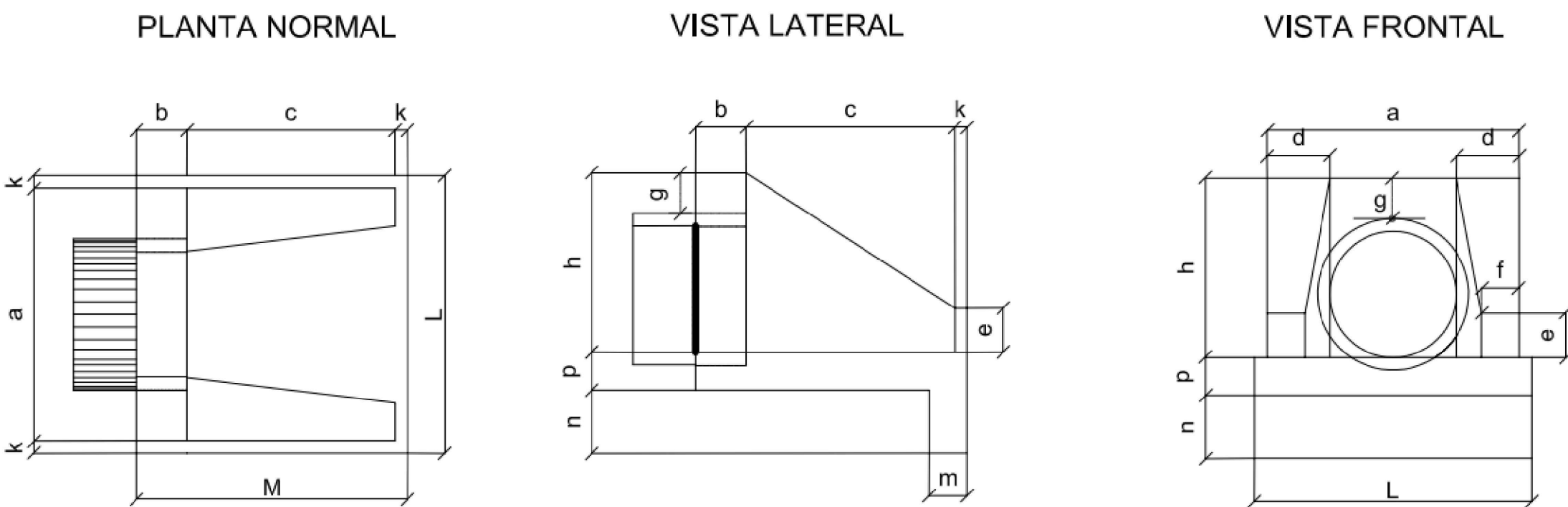
CONSUMOS MÉDIOS		
TUBO DE CONCRETO	Ø=30	Ø=40
CONCRETO fck > 15MPa	≤ 0,30m³/m	≤ 0,35m³/m
ESCAVAÇÃO	≤ 0,35m³/m	≤ 0,40m³/m
	TSS 01	TSS 02



CAIXA COLETORA DE TALVEGUE/SARJETAS -CT



BOCAS DE BUEIRO



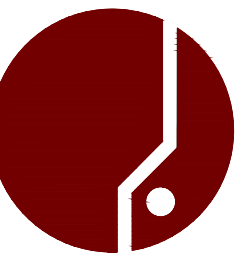
Esc.	BUEIRO SIMPLES TUBULAR Φ = 40																formas m ²	con creto m ³	cimento saco 50kg	areia m ³	brita 1 brita 2 m ³	água m ³	madeira m ³	
	a	b	c	d	e	f	g	h	k	m	n	p	q	L	M									
0°	80			20													90	2,29	0,423	2,072	0,288	0,313	0,068	0,057
5°	80			20													90	2,30	0,423	2,072	0,288	0,313	0,068	0,057
10°	81			20													91	2,31	0,423	2,073	0,288	0,313	0,068	0,058
15°	83			21													93	2,33	0,423	2,074	0,288	0,313	0,068	0,058
20°	85			21													96	2,36	0,424	2,076	0,288	0,314	0,068	0,059
25°	88			22													99	2,41	0,424	2,078	0,288	0,314	0,068	0,060
30°	92			23													104	2,47	0,425	2,081	0,289	0,314	0,068	0,062
35°	98			24													110	2,56	0,425	2,084	0,289	0,315	0,068	0,064
40°	104			26													117	2,67	0,426	2,088	0,290	0,315	0,068	0,067
45°	113			28													127	2,84	0,427	2,092	0,290	0,316	0,068	0,071

Esc.	BUEIRO SIMPLES TUBULAR $\Phi = 60$														formas m ²	con creto m ³	cimento saco 50kg	areia m ³	brita 1 brita 2 m ³	água m ³	madeira m ³
	a	b	c	d	e	f	g	h	k	m	n	p	L								
0°														130	4,17	0,932	4,567	0,634	0,690	0,149	0,104
5°	110													130	4,18	0,932	4,568	0,634	0,690	0,149	0,104
10°	112													132	4,20	0,933	4,570	0,634	0,690	0,149	0,105
15°	114													135	4,24	0,933	4,573	0,635	0,691	0,149	0,106
20°	117													138	4,30	0,934	4,577	0,635	0,691	0,149	0,107
25°	121													143	4,38	0,935	4,583	0,636	0,692	0,150	0,110
30°	127													150	4,49	0,937	4,589	0,637	0,693	0,150	0,112
35°	134													159	4,65	0,938	4,597	0,638	0,694	0,150	0,116
40°	144													170	4,85	0,940	4,605	0,639	0,695	0,150	0,121
45°	156													184	5,14	0,942	4,615	0,640	0,697	0,151	0,129

EMISSION INICIAL	15/02/2023	001
QUADRO DE REVISÃO	DATA	NÚMERO

PROJETO DE DRENAGEM

MUNICÍPIO	PAULO LOPES - SC	
OBRA	CONTEÚDO	
RUA ROGER VANDERLIN	PROJETO DE DRENAGEM PLUVIAL	
	TABELAS DE QUANTIDADES E DETALHES CONSTRUTIVOS	
PROJETO	APROVAÇÃO DA PREFEITURA	
	VINÍCIUS FELLER Engenheiro Civil CREA/SC 147.982-3	
DATA	FEVEREIRO/2023	PRANCHA 02/02



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"GRANFOLIS"
ASSESSORIA DE ENGENHARIA E ARQUITETURA