



ESTADO DO RIO GRANDE DO SUL
MUNICÍPIO DE CANOAS
Secretaria Municipal de Obras - SMO
Diretoria de Pavimentação e Obras Viárias - DPOV

PROJETO BÁSICO
RECUPERAÇÃO DE PAVIMENTO
VIAS LADO LESTE
LOTE 01 NE
LOTE 02 SE

VOLUME 02/03
Planta Baixa, Topografia e Perfil Viário
Canoas, 30 de abril de 2019

RESUMO
VIAS LADO LESTE

ITEM	NOME DA RUA	KM	VALOR TOTAL C/BDI	%	VALOR POR KM
A	ADMINISTRAÇÃO, INSTALAÇÕES PROVISÓRIAS, SINALIZAÇÃO DA OBRA, ENSAIOS E MEIO FIO, (LOTE NE)		R\$ 799.039,22	1,75%	
A	ADMINISTRAÇÃO, INSTALAÇÕES PROVISÓRIAS, SINALIZAÇÃO DA OBRA, ENSAIOS E MEIO FIO, (LOTE SE)		R\$ 799.039,22	1,75%	
1	AV DO NAZÁRIO	2,78	R\$ 2.067.597,18	4,54%	R\$ 743.739,99
2	AV. FARROUPILHA	3,00	R\$ 4.459.381,70	9,78%	R\$ 1.486.460,57
3	RUA 119	0,29	R\$ 355.904,34	0,78%	R\$ 1.227.256,34
4	RUA 3	1,27	R\$ 1.258.382,61	2,76%	R\$ 990.852,45
5	RUA ESPERANÇA (RUA 7)	2,30	R\$ 958.494,43	2,10%	R\$ 416.736,71
6	RUA ARMANDO FAJARDO	0,90	R\$ 1.021.147,43	2,24%	R\$ 1.134.608,26
7	RUA ALEXANDRE DE GUSMÃO	2,13	R\$ 1.752.944,94	3,85%	R\$ 822.978,85
8	RUA ANDRÉ LUIZ DOS ANJOS CONCEIÇÃO	3,51	R\$ 3.731.661,33	8,19%	R\$ 1.063.151,38
9	RUA ARAGUAIA	1,51	R\$ 1.035.674,73	2,27%	R\$ 685.877,30
10	RUA AUGUSTO SEVERO	1,67	R\$ 1.963.343,91	4,31%	R\$ 1.175.655,04
11	RUA FERNANDO FERRARI	2,68	R\$ 1.572.654,00	3,45%	R\$ 586.811,19
12	RUA GILDO DE FREITAS	1,98	R\$ 1.498.439,23	3,29%	R\$ 756.787,49
13	RUA HUMAITÁ	0,45	R\$ 447.331,93	0,98%	R\$ 994.070,96
14	RUA IRAI	1,00	R\$ 766.259,67	1,68%	R\$ 766.259,67
15	RUA JOSÉ BONIFÁCIO	0,66	R\$ 372.510,09	0,82%	R\$ 564.409,23
16	RUA MARECHAL DEODORO	0,37	R\$ 197.384,34	0,43%	R\$ 533.471,19
17	RUA MONTE CASTELO	1,25	R\$ 1.175.406,56	2,58%	R\$ 940.325,25
18	RUA MONZA	0,60	R\$ 302.984,45	0,66%	R\$ 504.974,08
19	RUA OZANAN	1,30	R\$ 2.522.081,85	5,53%	R\$ 1.940.062,96
20	RUA RAMIRO BARCELOS	3,10	R\$ 3.146.568,89	6,90%	R\$ 1.015.022,22
21	RUA SANTA MARIA	0,32	R\$ 269.553,25	0,59%	R\$ 842.353,91
22	RUA SANTOS DUMMONT	2,20	R\$ 1.102.580,00	2,42%	R\$ 501.172,73
23	RUA SANTOS FERREIRA	5,78	R\$ 7.200.720,05	15,80%	R\$ 1.245.799,32
24	RUA TAMOIO	3,40	R\$ 1.824.566,09	4,00%	R\$ 536.637,09
25	RUA TOBIAS BARRETO	1,10	R\$ 597.363,06	1,31%	R\$ 543.057,33
26	RUA URUGUAI	1,22	R\$ 965.547,61	2,12%	R\$ 791.432,47
27	RUA VENÂNCIO AIRES	3,66	R\$ 1.416.991,12	3,11%	R\$ 387.156,04
TOTAL:		50,43	R\$ 45.581.553,23	100,00%	R\$ 903.857,89

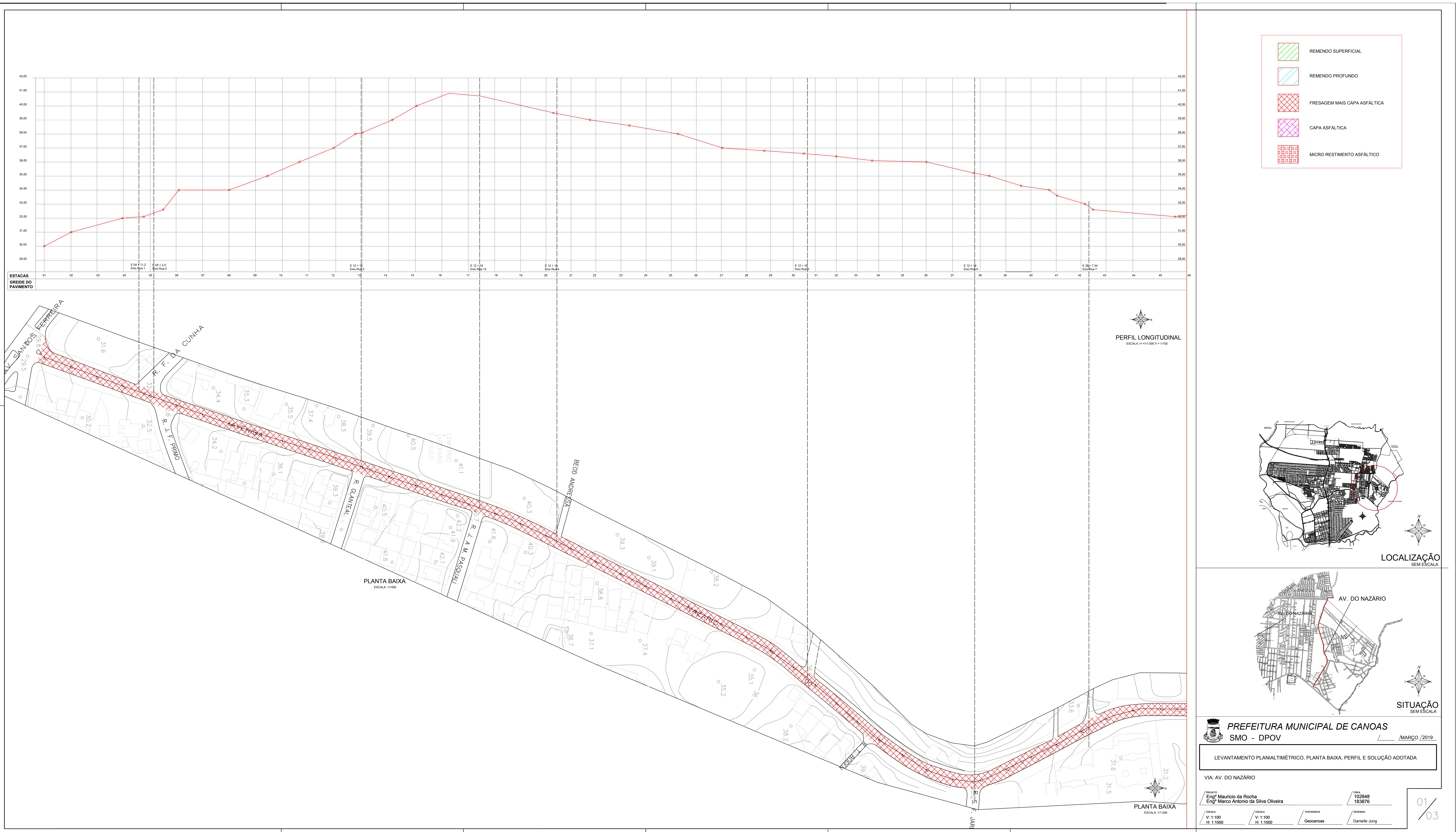
R\$ 22.591.874,80 NE
R\$ 22.989.678,43 SE

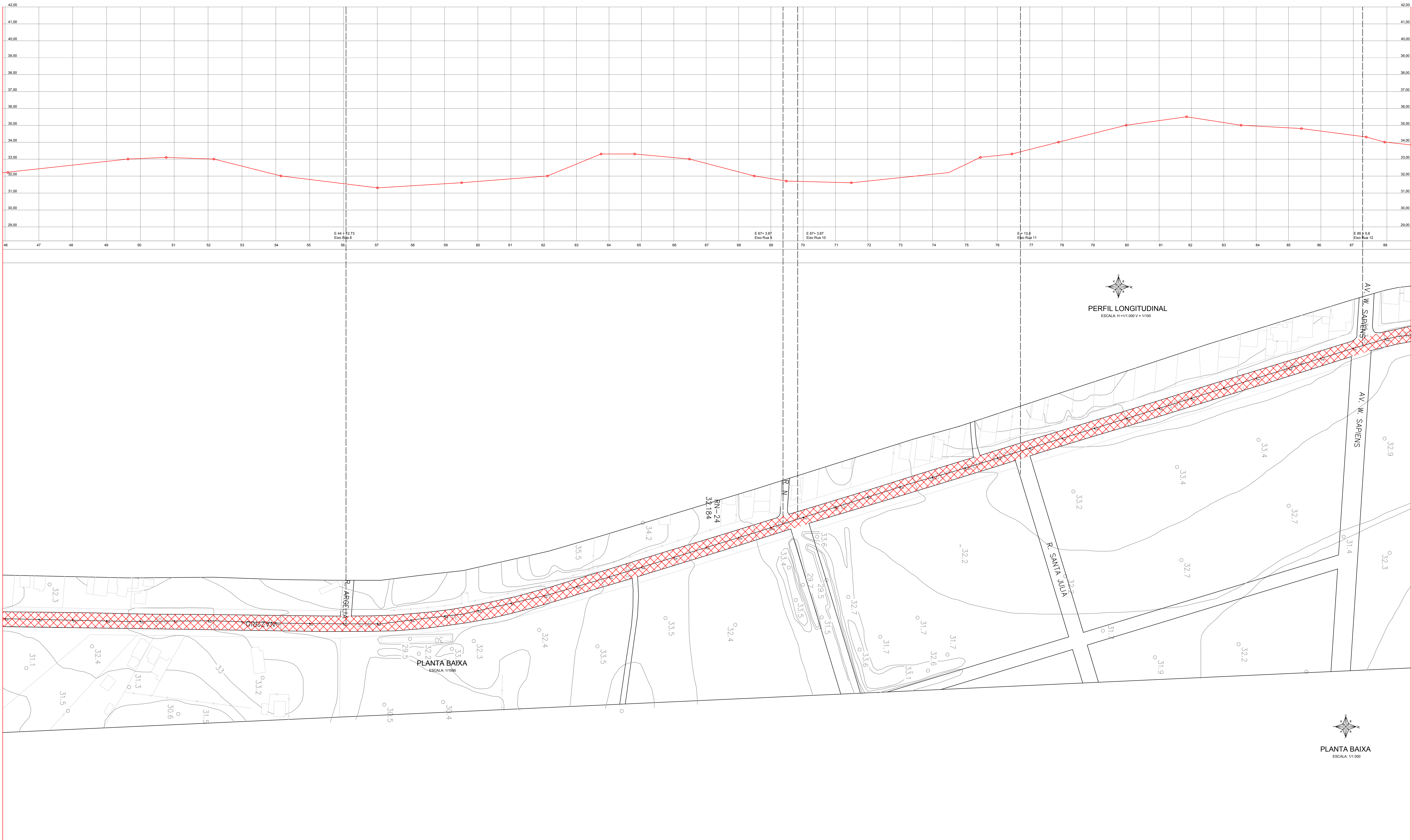
RESUMO
VIAS LADO LESTE - LOTE 1 - NORDESTE

ITEM	NOME DA RUA	KM	VALOR TOTAL C/BDI	%	VALOR POR KM
A	ADMINISTRAÇÃO, INSTALAÇÕES PROVISÓRIAS, SINALIZAÇÃO DA OBRA, ENSAIOS E MEIO FIO, (LOTE NE)		R\$ 799.039,22	3,54%	
1	AV DO NAZÁRIO	2,78	R\$ 2.067.597,18	9,15%	R\$ 743.739,99
3	RUA 119	0,29	R\$ 355.904,34	1,58%	R\$ 1.227.256,34
4	RUA 3	1,27	R\$ 1.258.382,61	5,57%	R\$ 990.852,45
5	RUA ESPERANÇA (RUA 7)	2,30	R\$ 958.494,43	4,24%	R\$ 416.736,71
6	RUA ARMANDO FAJARDO	0,90	R\$ 1.021.147,43	4,52%	R\$ 1.134.608,26
7	RUA ALEXANDRE DE GUSMÃO	2,13	R\$ 1.752.944,94	7,76%	R\$ 822.978,85
8	RUA ANDRÉ LUIZ DOS ANJOS CONCEIÇÃO	3,51	R\$ 3.731.661,33	16,52%	R\$ 1.063.151,38
9	RUA ARAGUAIA	1,51	R\$ 1.035.674,73	4,58%	R\$ 685.877,30
12	RUA GILDO DE FREITAS	1,98	R\$ 1.498.439,23	6,63%	R\$ 756.787,49
17	RUA MONTE CASTELO	1,25	R\$ 1.175.406,56	5,20%	R\$ 940.325,25
18	RUA MONZA	0,60	R\$ 302.984,45	1,34%	R\$ 504.974,08
19	RUA OZANAN	1,30	R\$ 2.522.081,85	11,16%	R\$ 1.940.062,96
20	RUA RAMIRO BARCELOS	3,10	R\$ 3.146.568,89	13,93%	R\$ 1.015.022,22
26	RUA URUGUAI	1,22	R\$ 965.547,61	4,27%	R\$ 791.432,47
TOTAL:		24,14	R\$ 22.591.874,80	100,00%	R\$ 935.868,88

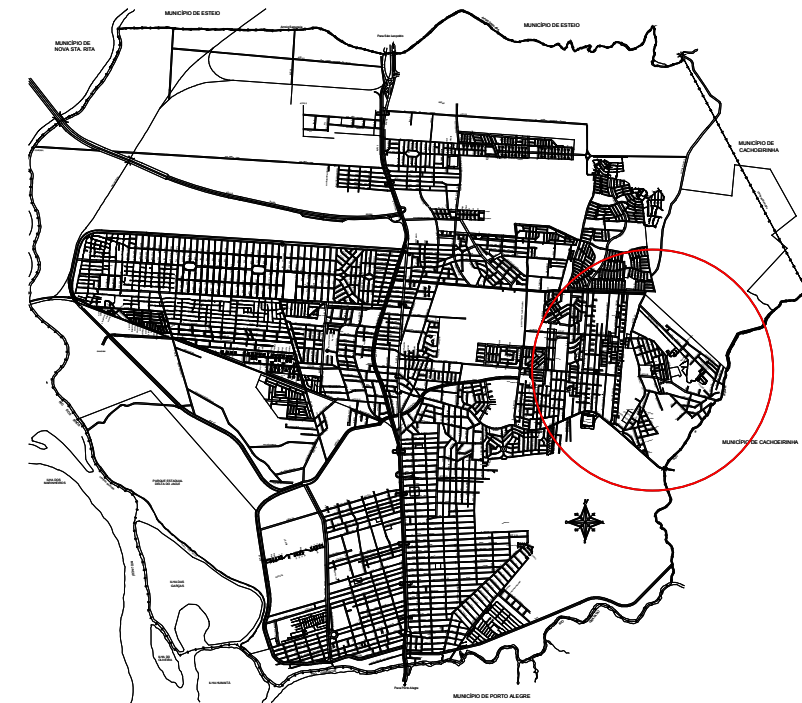
RESUMO
VIAS LADO LESTE - LOTE 2 - SUDESTE

ITEM	NOME DA RUA	KM	VALOR TOTAL C/BDI	%	VALOR POR KM
A	ADMINISTRAÇÃO, INSTALAÇÕES PROVISÓRIAS, SINALIZAÇÃO DA OBRA, ENSAIOS E MEIO FIO, (LOTE SE)		R\$ 799.039,22	3,48%	
2	AV. FARROUPILHA	3,00	R\$ 4.459.381,70	19,40%	R\$ 1.486.460,57
10	RUA AUGUSTO SEVERO	1,67	R\$ 1.963.343,91	8,54%	R\$ 1.175.655,04
11	RUA FERNANDO FERRARI	2,68	R\$ 1.572.654,00	6,84%	R\$ 586.811,19
13	RUA HUMAITÁ	0,45	R\$ 447.331,93	1,95%	R\$ 994.070,96
14	RUA IRAI	1,00	R\$ 766.259,67	3,33%	R\$ 766.259,67
15	RUA JOSÉ BONIFÁCIO	0,66	R\$ 372.510,09	1,62%	R\$ 564.409,23
16	RUA MARECHAL DEODORO	0,37	R\$ 197.384,34	0,86%	R\$ 533.471,19
21	RUA SANTA MARIA	0,32	R\$ 269.553,25	1,17%	R\$ 842.353,91
22	RUA SANTOS DUMMONT	2,20	R\$ 1.102.580,00	4,80%	R\$ 501.172,73
23	RUA SANTOS FERREIRA	5,78	R\$ 7.200.720,05	31,32%	R\$ 1.245.799,32
24	RUA TAMOIO	3,40	R\$ 1.824.566,09	7,94%	R\$ 536.637,09
25	RUA TOBIAS BARRETO	1,10	R\$ 597.363,06	2,60%	R\$ 543.057,33
27	RUA VENÂNCIO AIRES	3,66	R\$ 1.416.991,12	6,16%	R\$ 387.156,04
TOTAL:		26,29	R\$ 22.989.678,43	100,00%	R\$ 874.464,76

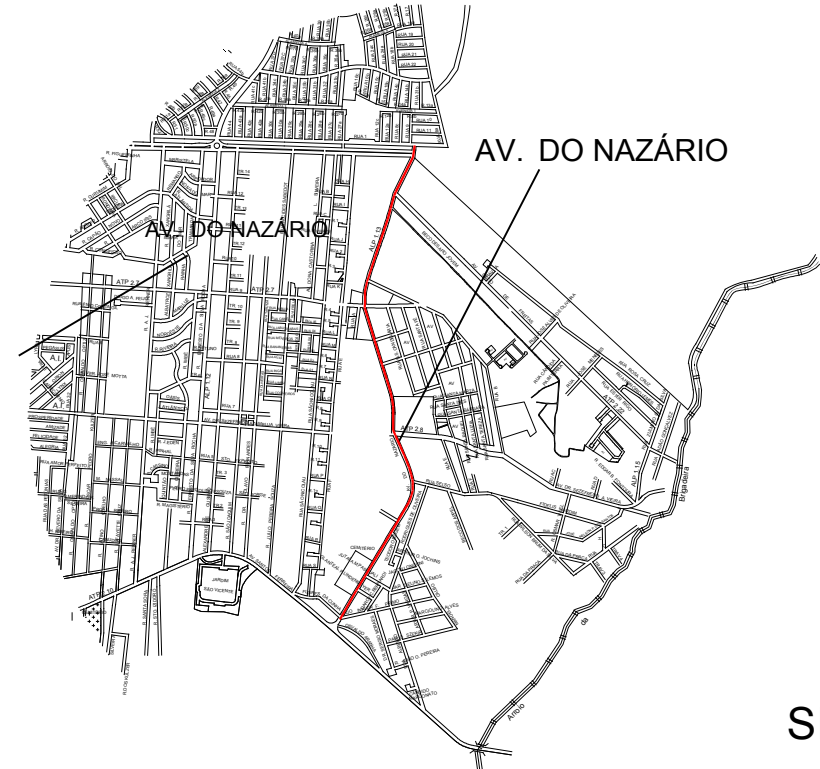




- REMEMDO SUPERFICIAL
- REMEMDO PROFUNDO
- FRESAGEM MAIS CAPA ASFÁLTICA
- CAPA ASFÁLTICA
- MICRO RESTIMENTO ASFÁLTICO



LOCALIZAÇÃO
SEM ESCALA

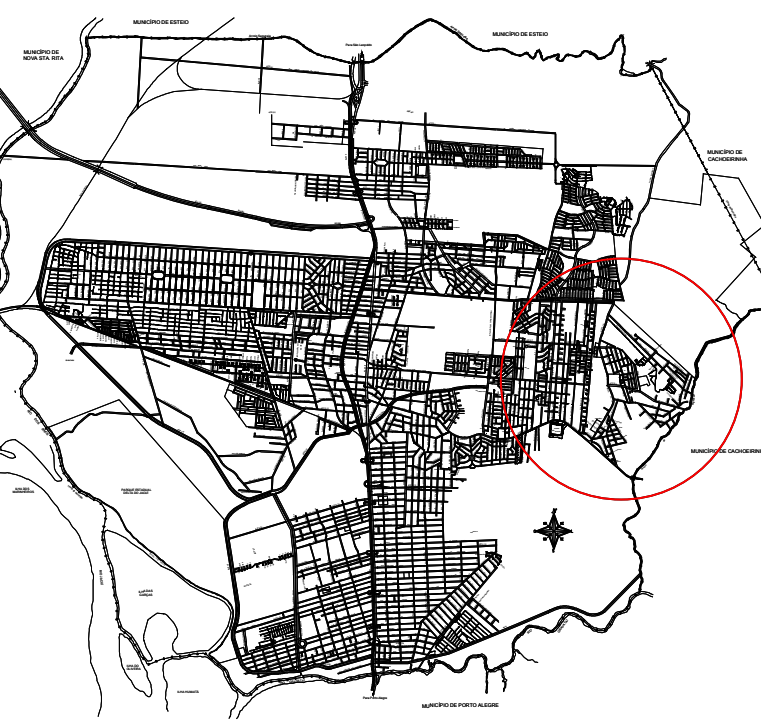
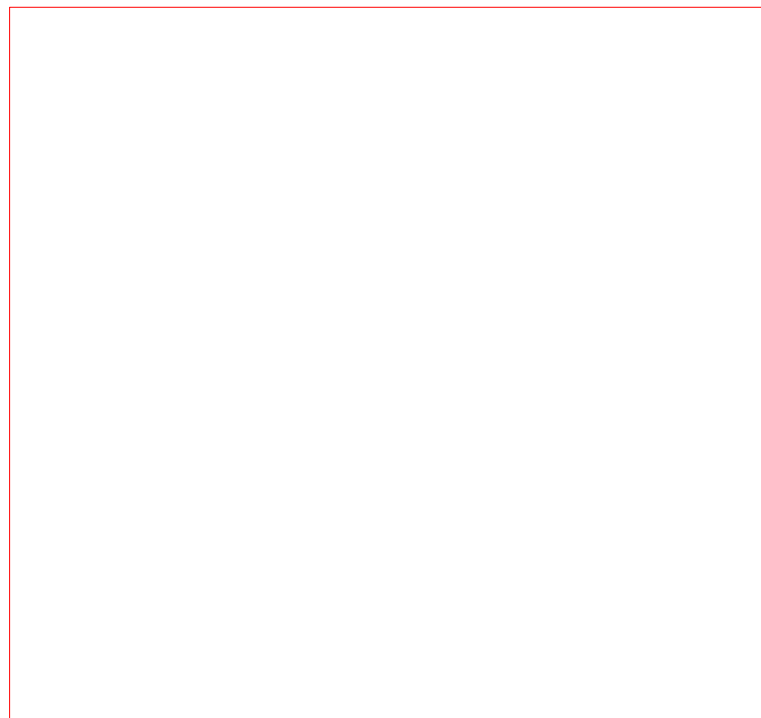
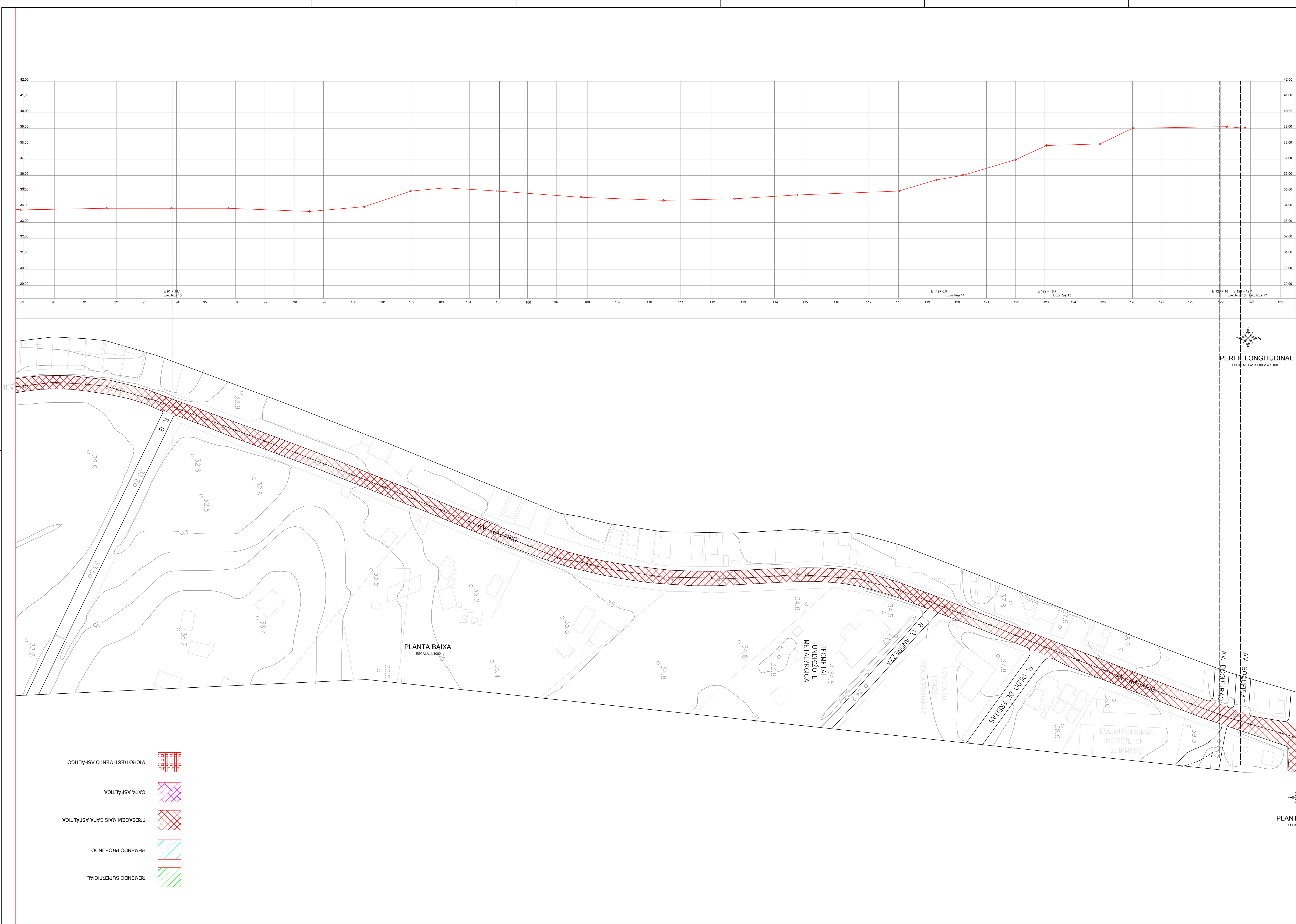


SITUAÇÃO
SEM ESCALA

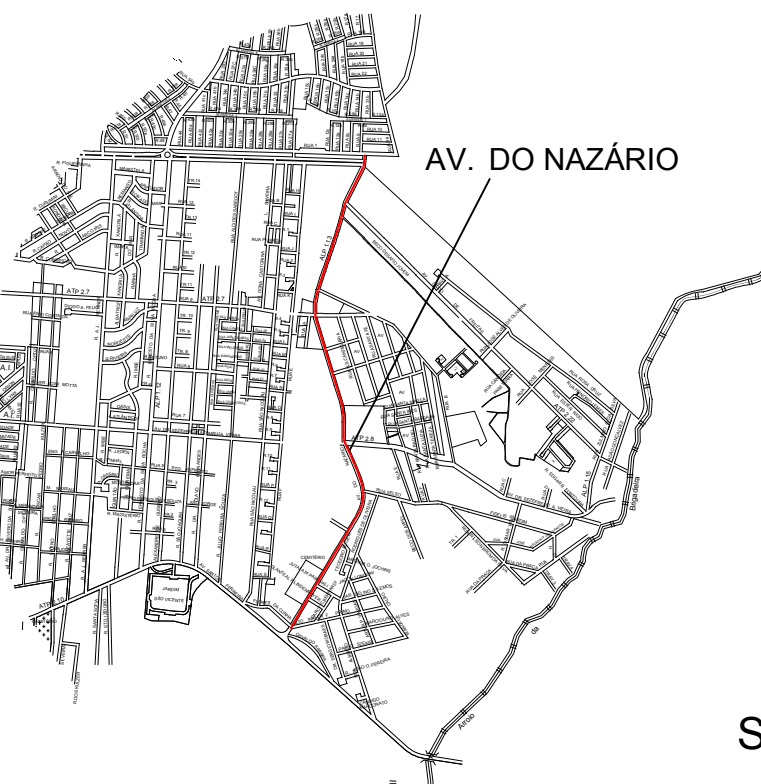
**PREFEITURA MUNICIPAL DE CANOAS**
SMO - DPOV

LEVANTAMENTO PLANIALTIMÉTRICO
AV. DO NAZÁRIO

PROJETO	DATA
Engº Maurício da Rocha	10/28/48
Engº Marco Antônio da Silva Oliveira	15/38/78
EXECUÇÃO	REVISÃO
VERIFICAÇÃO	PROJETO
V: 1:100	H: 1:1000
	Geocanoas
	Danielle Jung



LOCALIZAÇÃO
SEM ESCALA

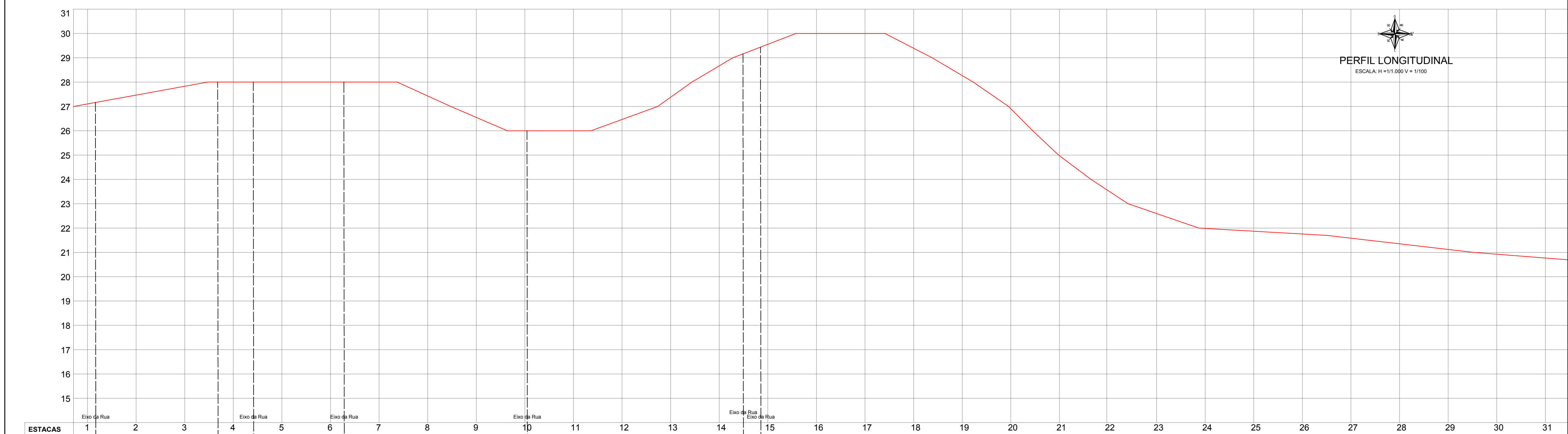


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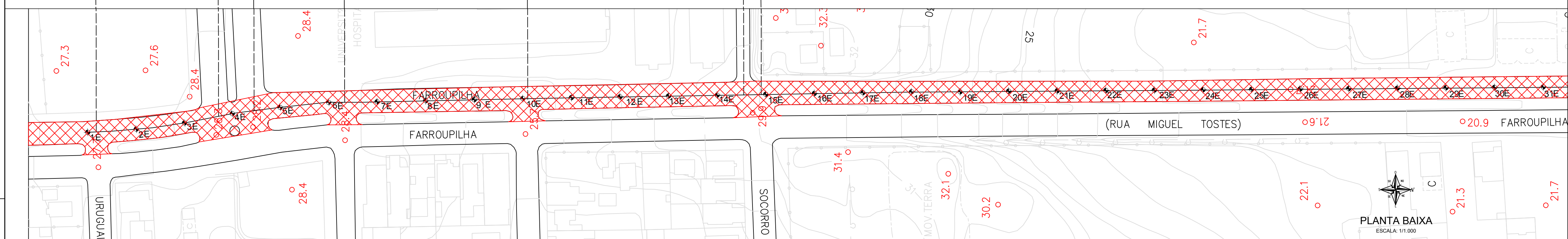
PREFEITURA MUNICIPAL DE CANOAS
SMO - DPOV
LEVANTAMENTO PLANIALTIMÉTRICO
AV. DO NAZÁRIO

PROJETO	Engº Maurício da Rocha Engº Marco Antônio da Silva Oliveira	DATA	10/28/48 18/38/76
REVISÃO		DATA	
ESCALA	V: 1:100 H: 1:1000	PROJETO	Geocanoas
		REVISÃO	Danielle Jung

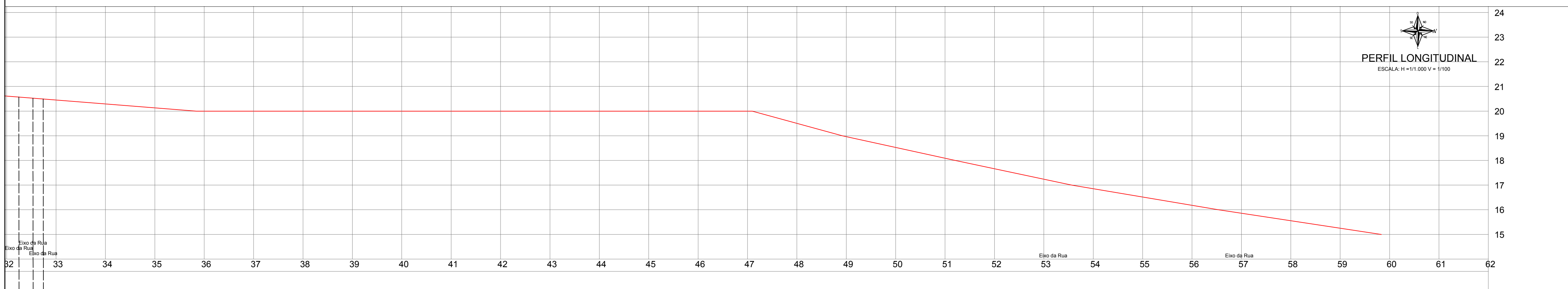
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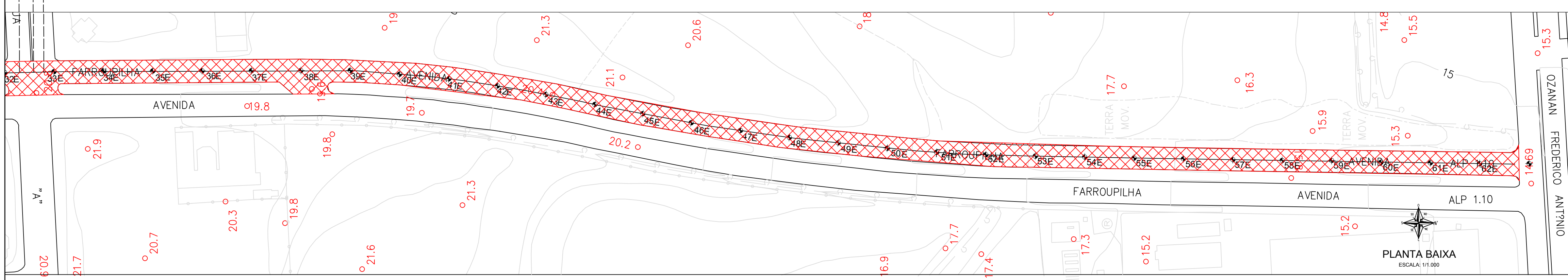
PERFIL LONGITUDINAL
ESCALA: H=1:1.000 V=1:100



PLANTA BAIXA
ESCALA: 1:1.000

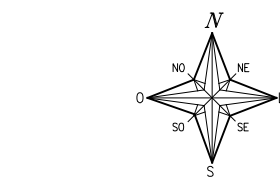
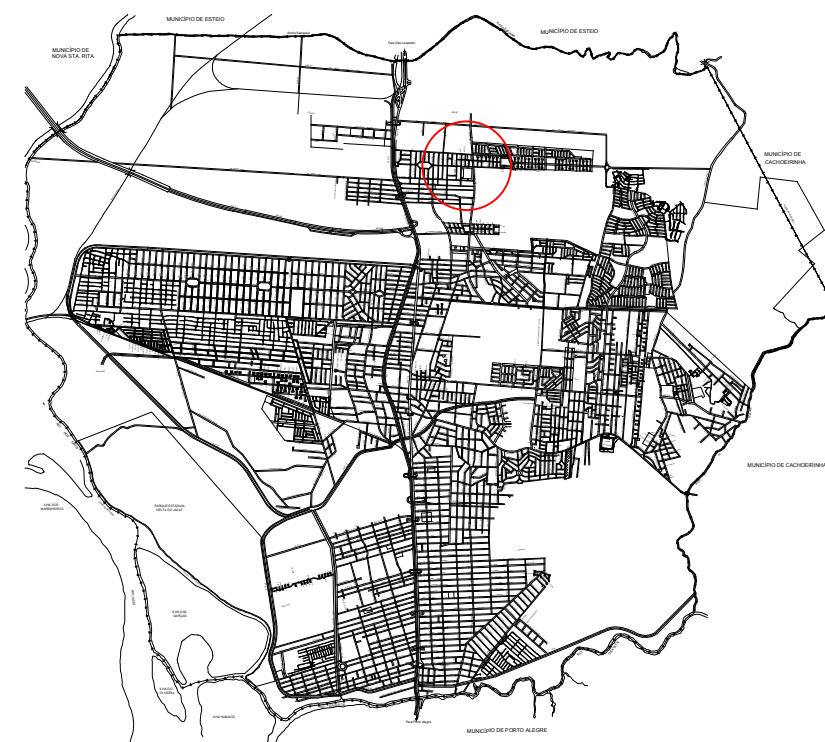


PERFIL LONGITUDINAL
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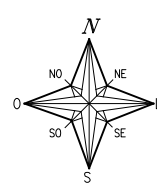
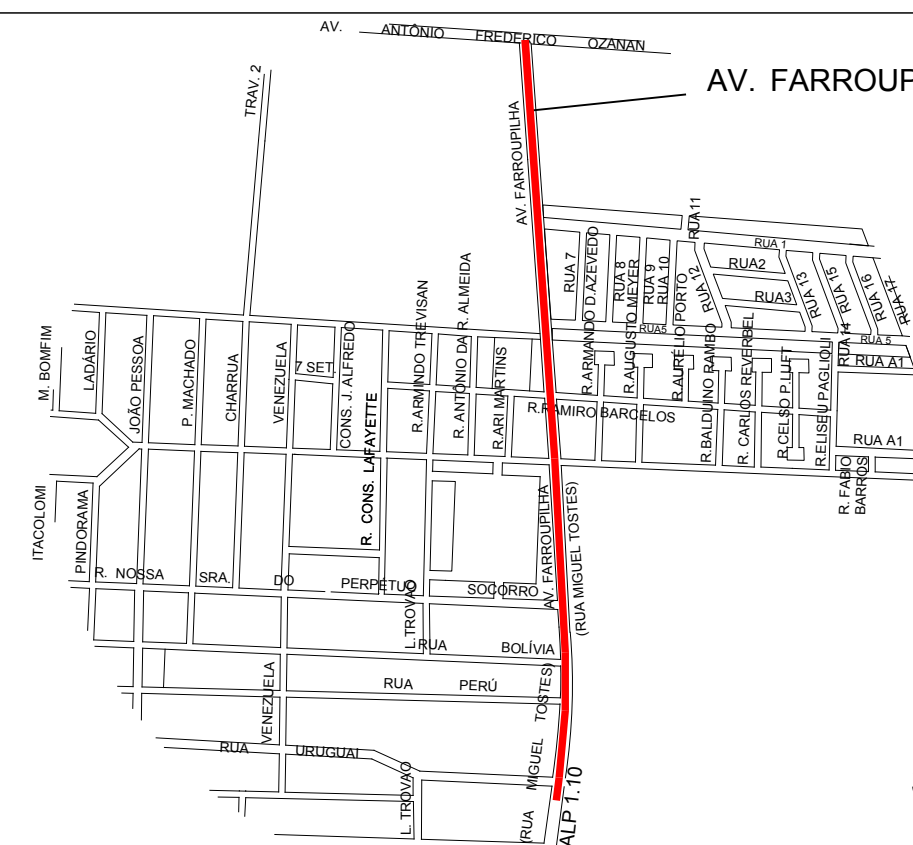


PLANTA BAIXA
ESCALA: 1:1.000

- REMENDO SUPERFICIAL
- REMENDO PROFUNDO
- FRESAGEM MAIS CAPA ASFÁLTICA
- CAPA ASFÁLTICA
- MICRO RESTIMENTO ASFÁLTICO



LOCALIZAÇÃO



SITUAÇÃO
SEM ESCALA



PREFEITURA MUNICIPAL DE CANOAS
SMO - DPOV

10/03/2019

LEVANTAMENTO PLANALTIMÉTRICO, PLANTA BAIXA, PERFIL E SOLUÇÃO ADOTADA

VIA: AV. FARROUPILHA LADO A (R. Uruguai até Av. Antônio Frederico Ozanan)

PROJETO
Engº Mauricio da Rocha
Engº Marco Antonio da Silva Oliveira

ORÇ
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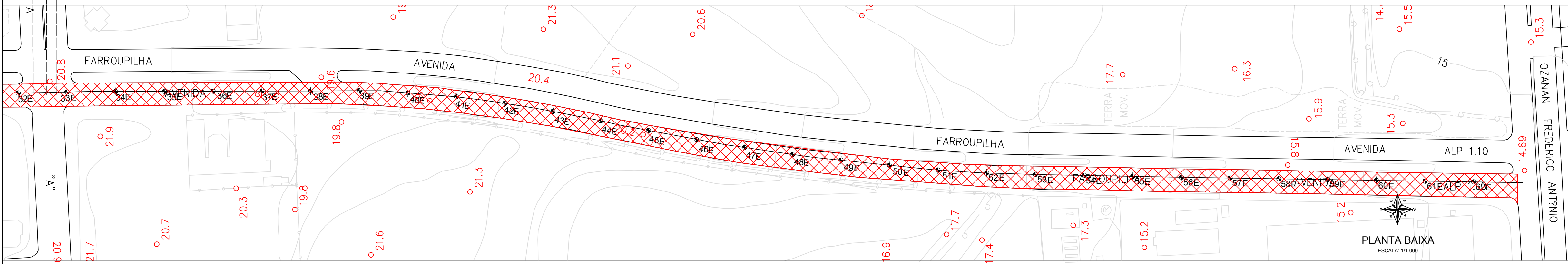
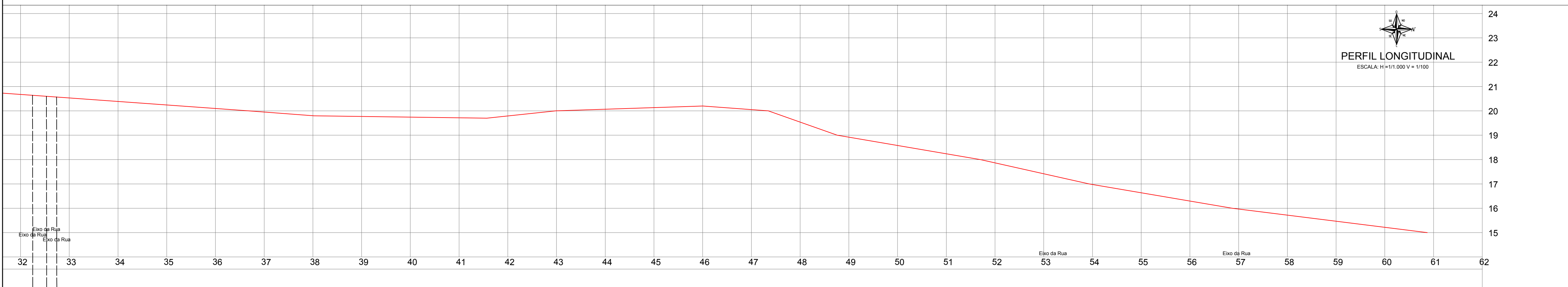
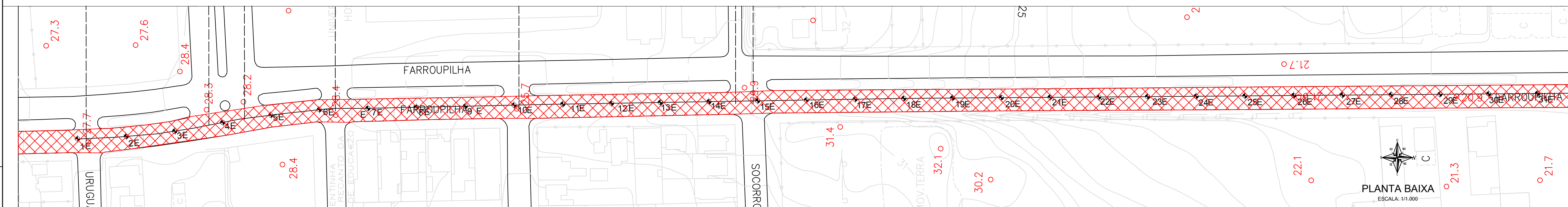
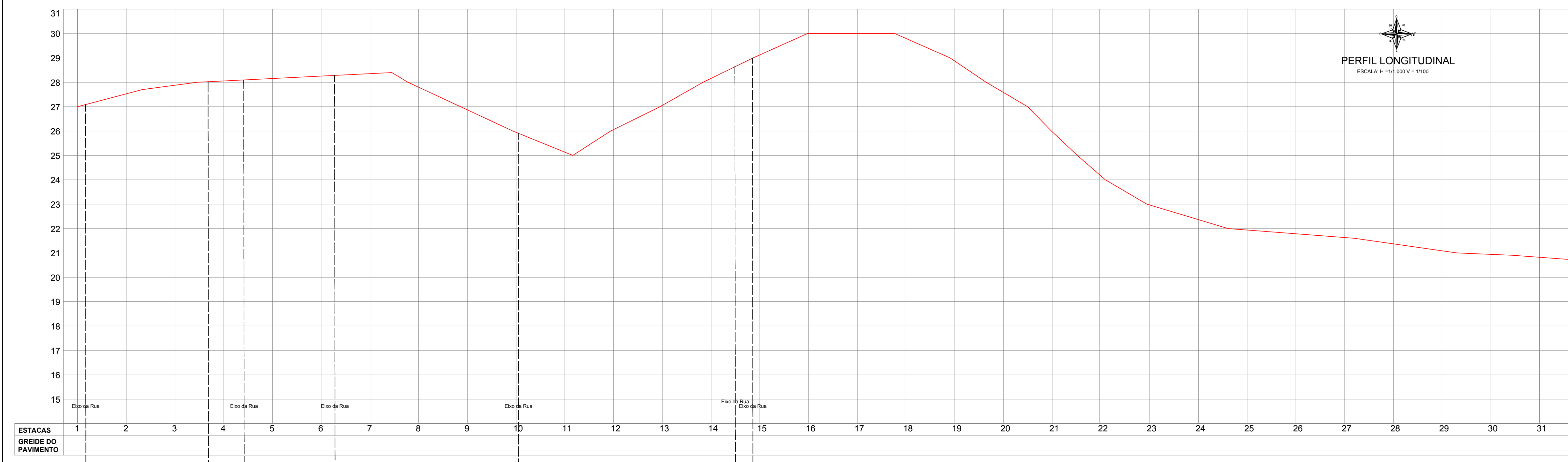
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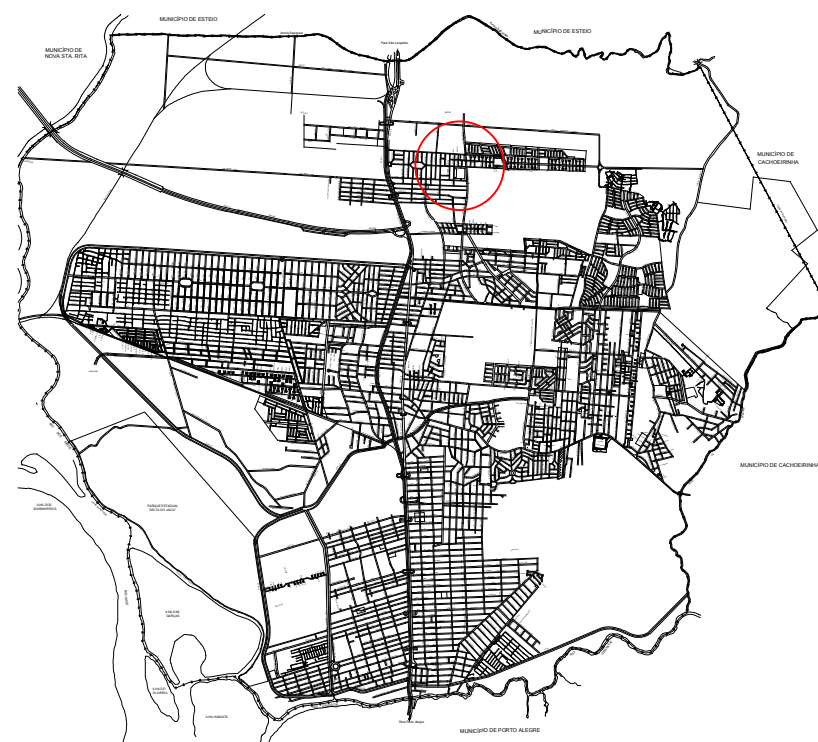
TOPOGRAFIA
Geocanoas

DESENHO
Carolina Becker

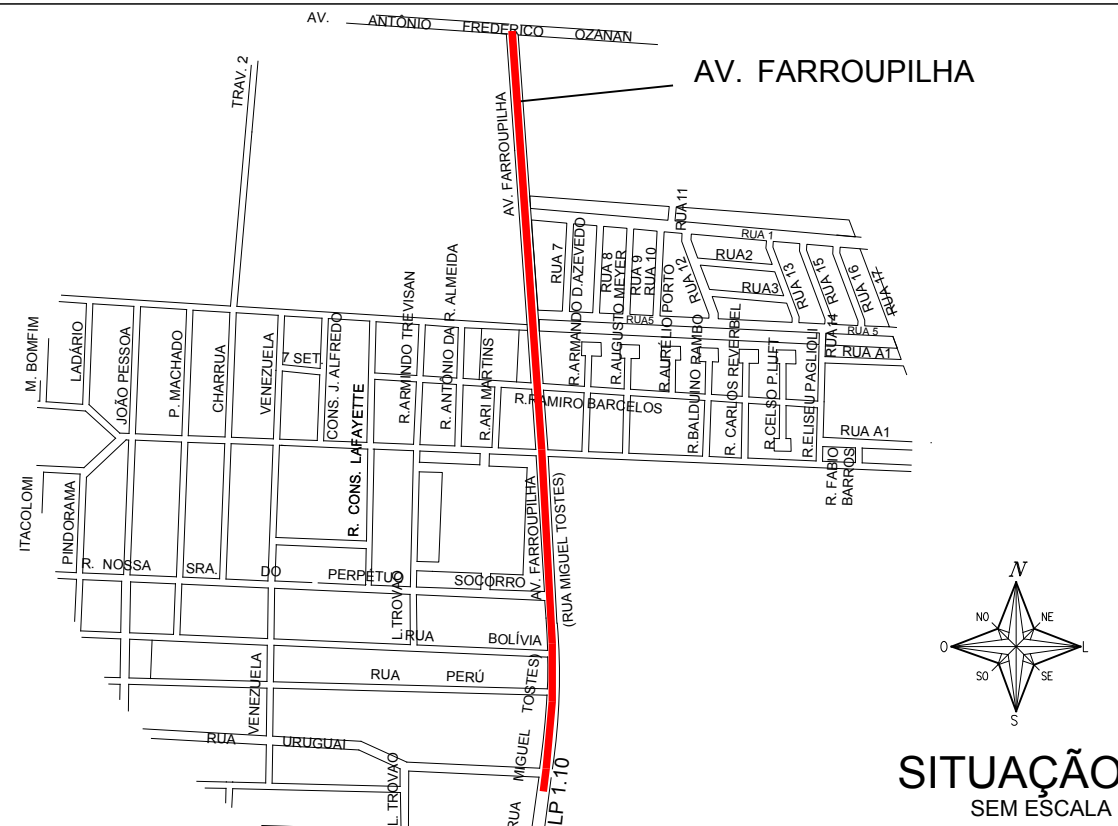
01/02



- REMENDO SUPERFICIAL
- REMENDO PROFUNDO
- FRESAGEM MAIS CAPA ASFÁLTICA
- CAPA ASFÁLTICA
- MICRO RESTIMENTO ASFÁLTICO



LOCALIZAÇÃO



SITUAÇÃO SEM ESCALA

PREFEITURA MUNICIPAL DE CANOAS
SMO - DPOV

LEVANTAMENTO PLANIMÉTRICO, PLANTA BAIXA, PERFIL E SOLUÇÃO ADOTADA

VIA: AV. FARROUPILHA LADO B (R. Uruguai até Av. Antônio Frederico Ozanam)

PROJETO
Engº Mauricio da Rocha
Engº Marco Antonio da Silva Oliveira

ORÇ
102848
183876

ESCALA
V: 1:100
H: 1:1000

ESCALA
V: 1:100
H: 1:1000

TOPOGRAFIA
Geocanoas

DESENHO
Carolina Becker

02/02

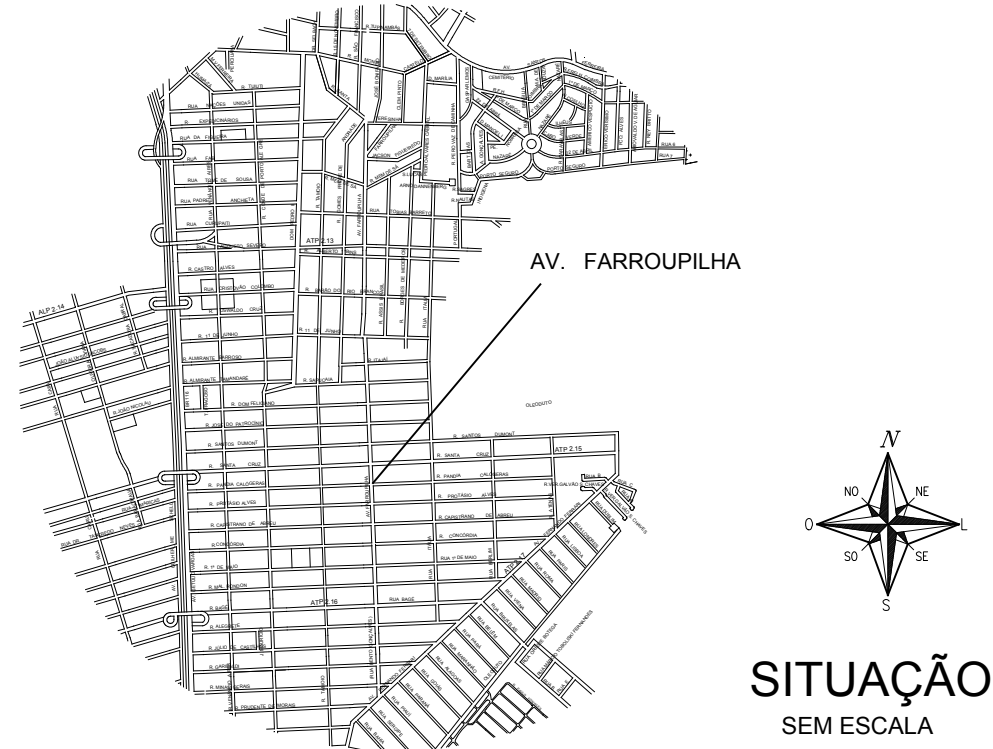
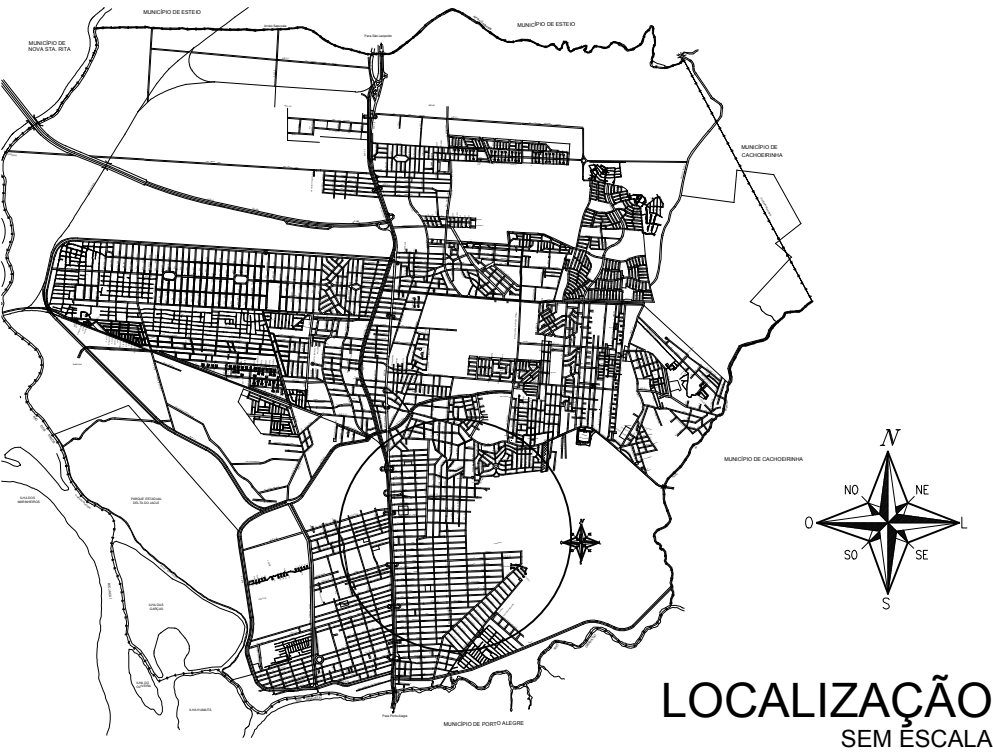
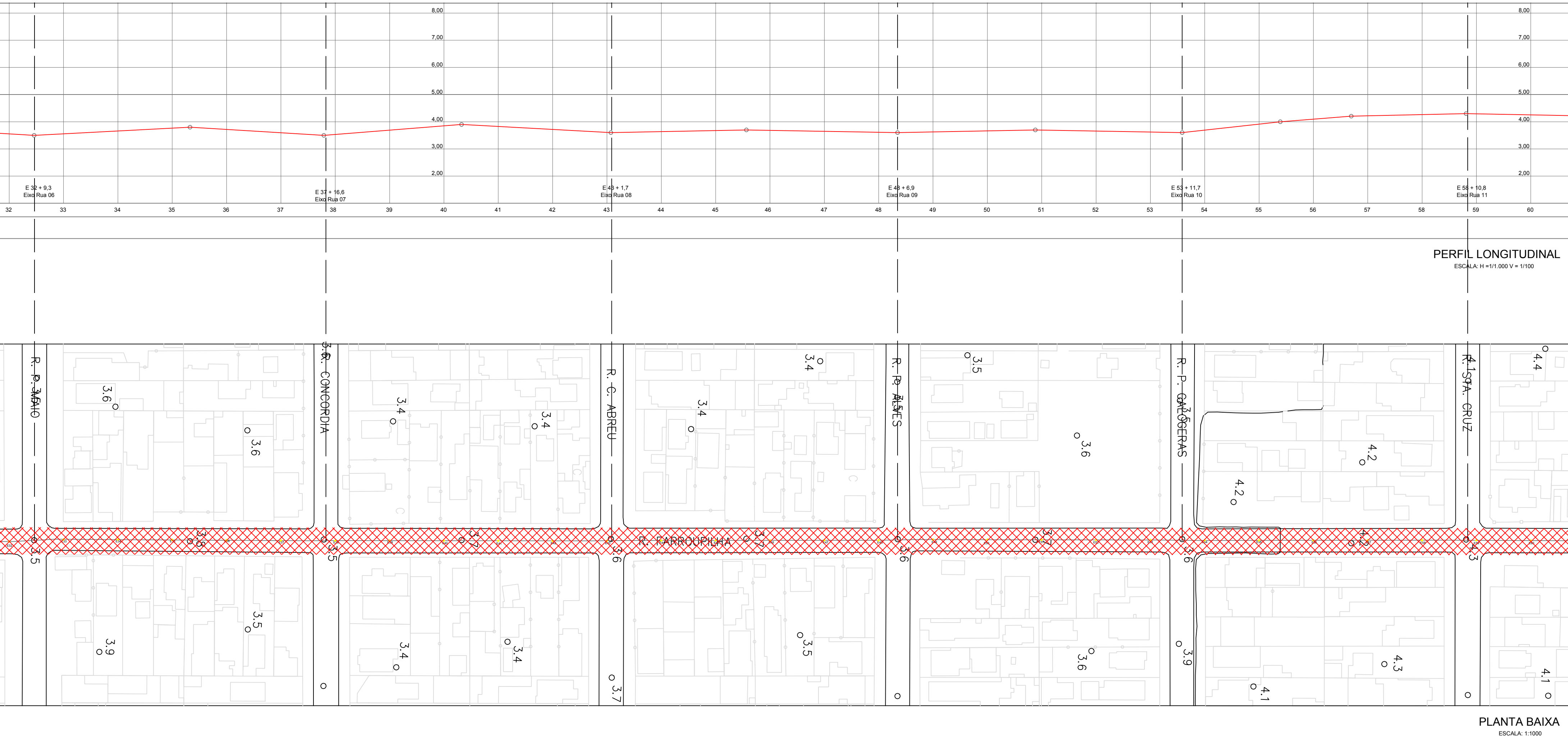
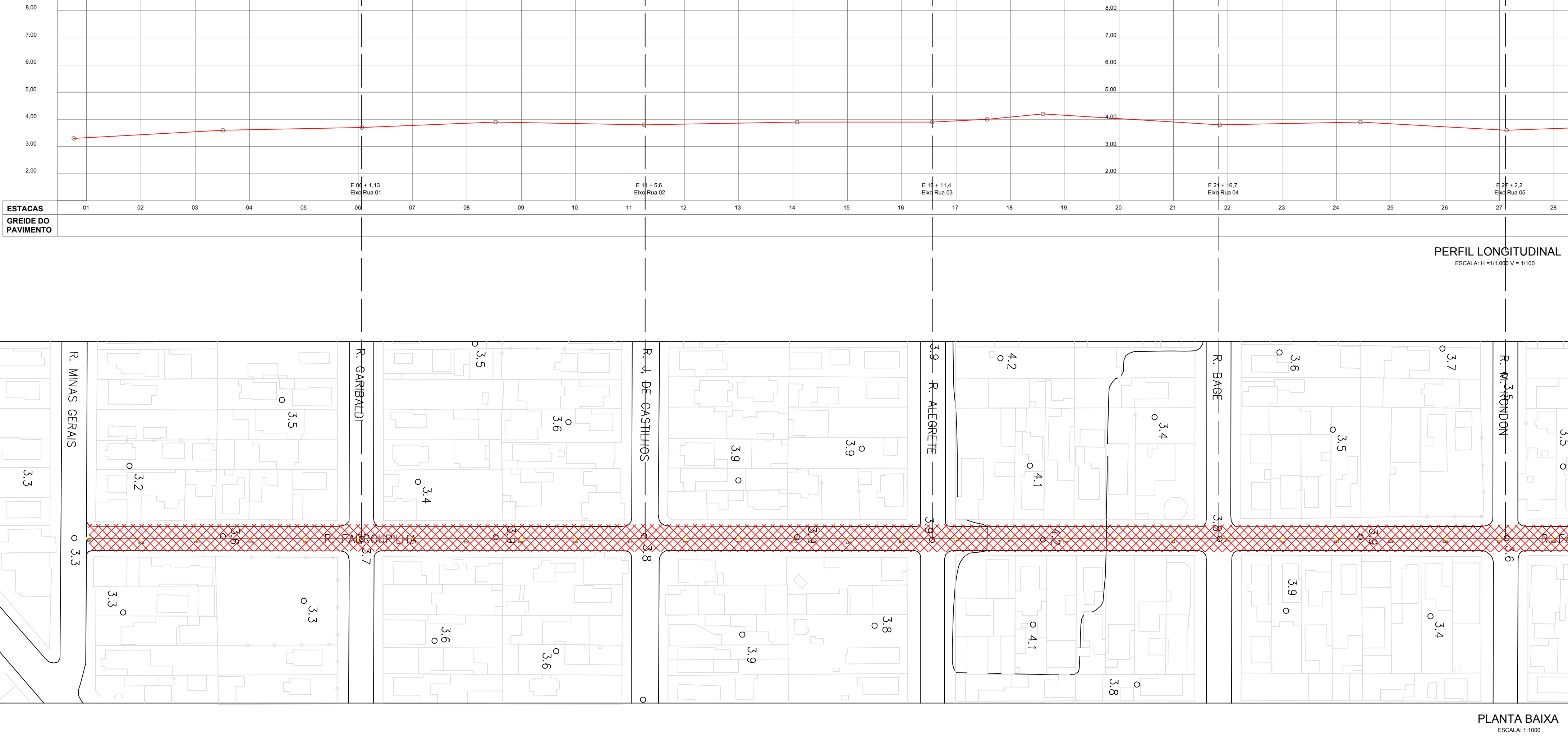
REMENDO SUPERFICIAL

REMENDO PROFUNDO

FRESAGEM MAIS CAPA ASFÁLTICA

CAPA ASFÁLTICA

MICRO RESTIMENTO ASFÁLTICO



PREFEITURA MUNICIPAL DE CANOAS

SMO - DPOV

102848

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LEVANTAMENTO PLANIALTIMÉTRICO, PLANTA BAIXA, PERFIL E SOLUÇÃO ADOTADA

VIA: AV. FARROUPILHA

PROJETO

Engº Maurício da Rocha

Engº Marco Antonio da Silva Oliveira

ESCALA

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ESCALA

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TOPOGRAFIA

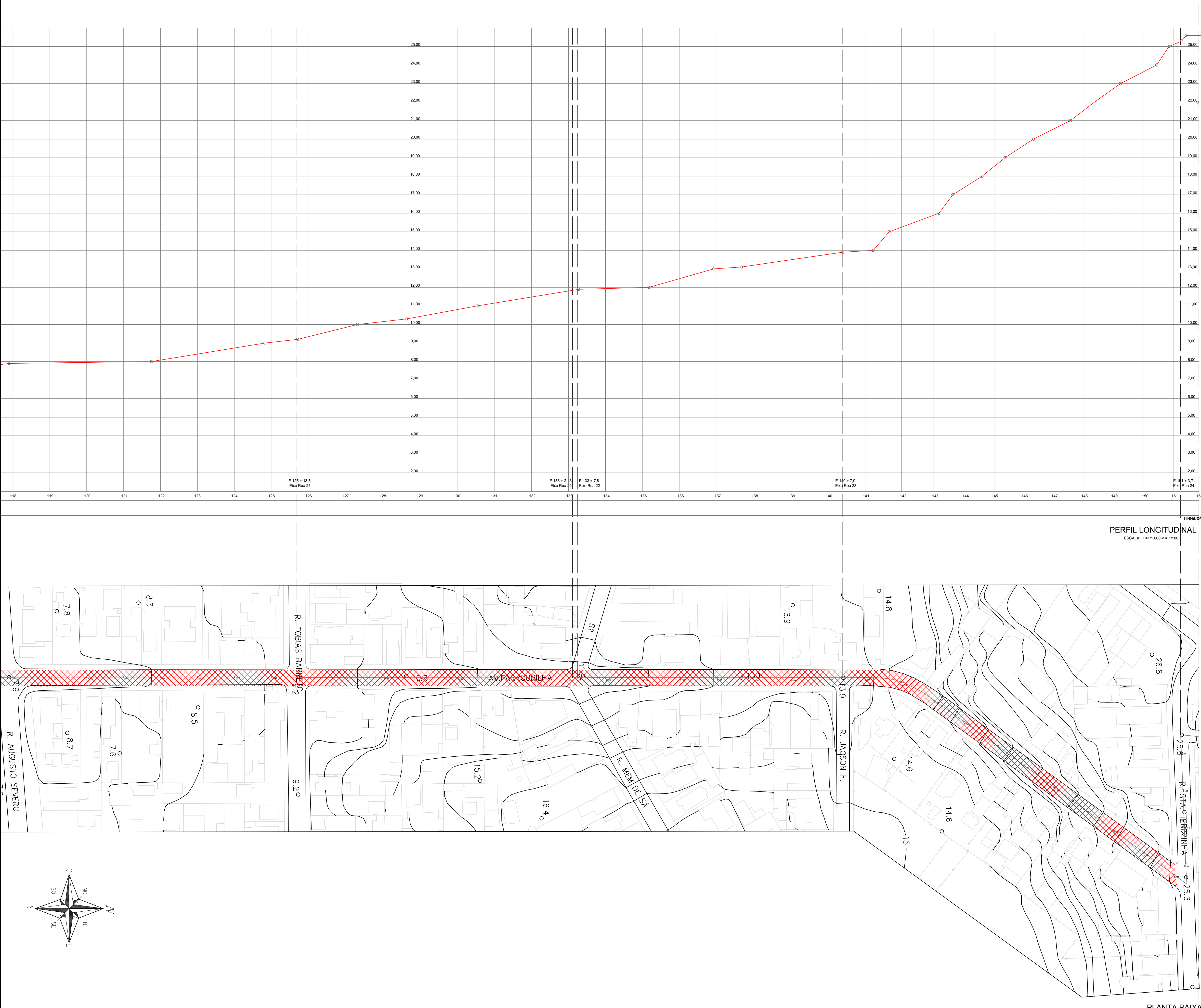
Geocanoas

DESENHO

Danielle Jung

01

04



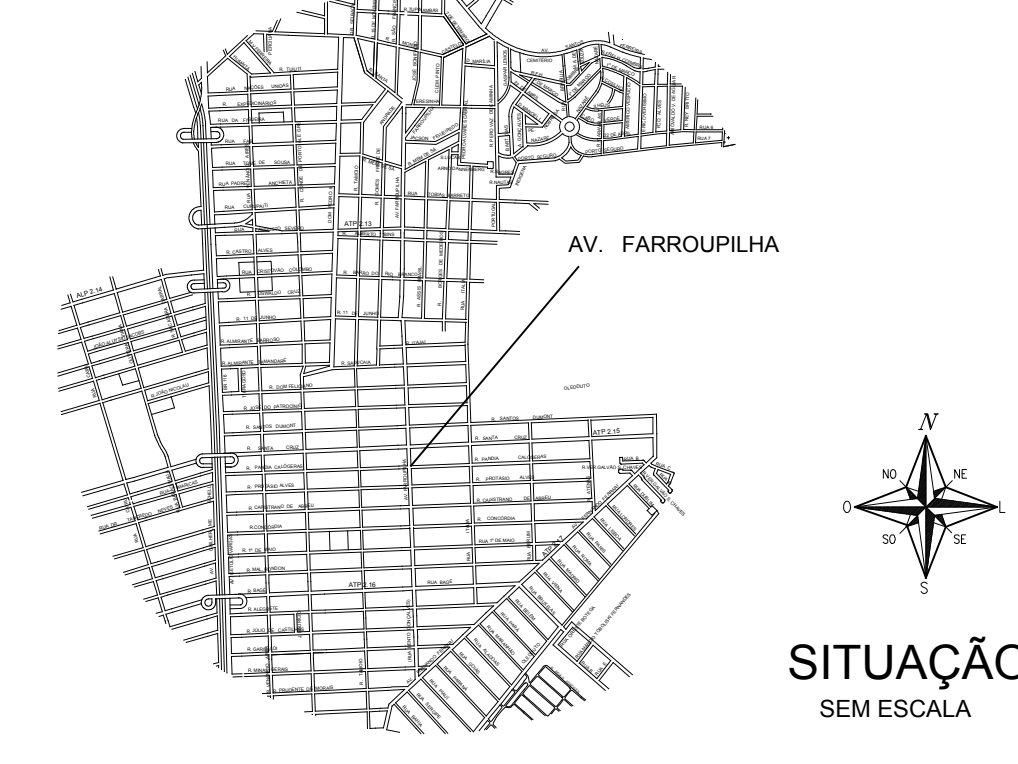
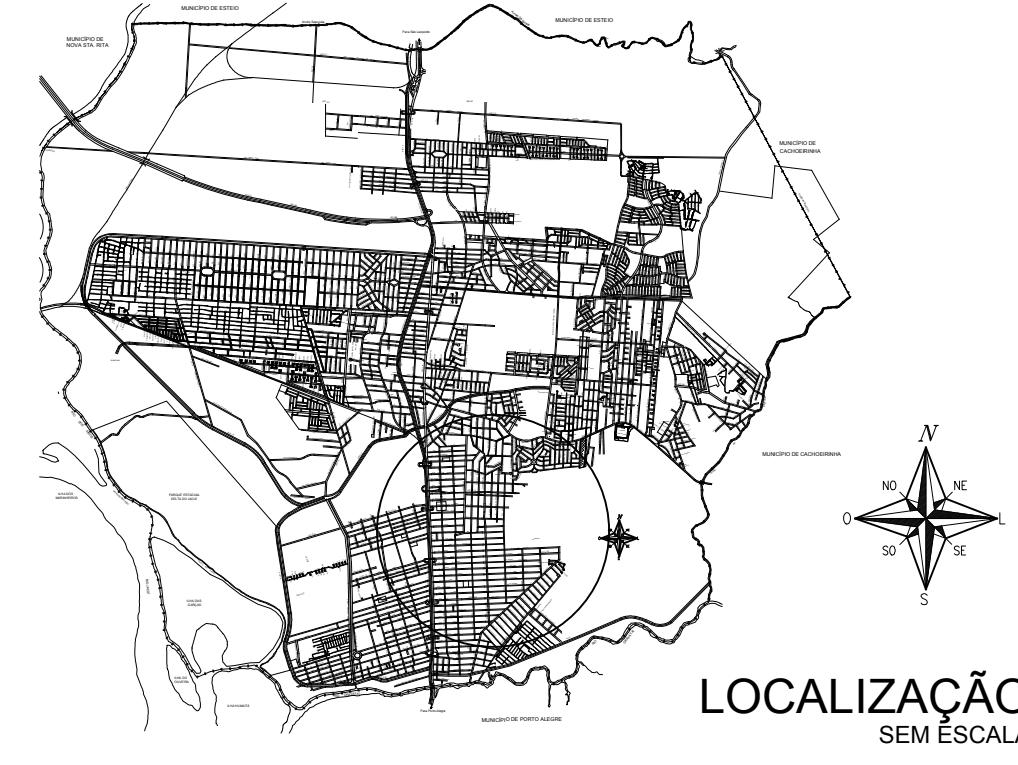
REMENDO SUPERFICIAL

REMENDO PROFUNDO

FRESAGEM MAIS CAPA ASFÁLTICA

CAPA ASFÁLTICA

MICRO RESTIMENTO ASFÁLTICO



PREFEITURA MUNICIPAL DE CANOAS
SMO - DPOV

____/____/2019

LEVANTAMENTO PLANIALTIMÉTRICO, PLANTA BAIXA, PERFIL E SOLUÇÃO ADOTADA

VIA: AV. FARROUPILHA

PROJETO
Engº Mauricio da Rocha
Engº Marco Antonio da Silva Oliveira

CREA
102848
183876

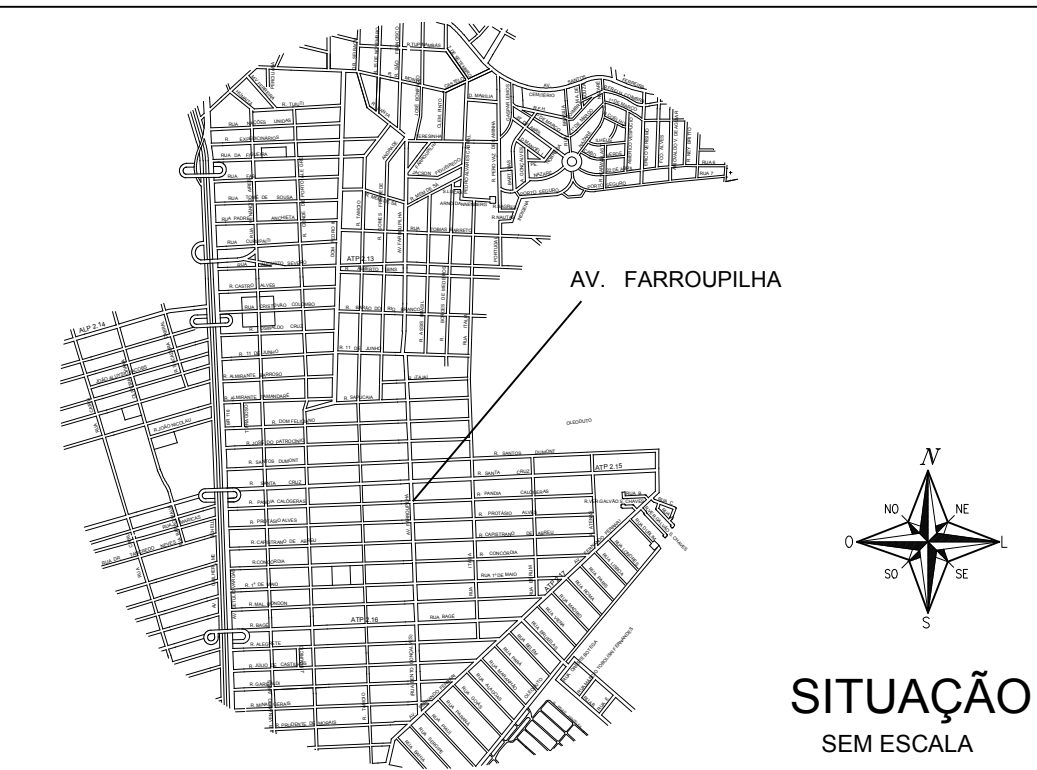
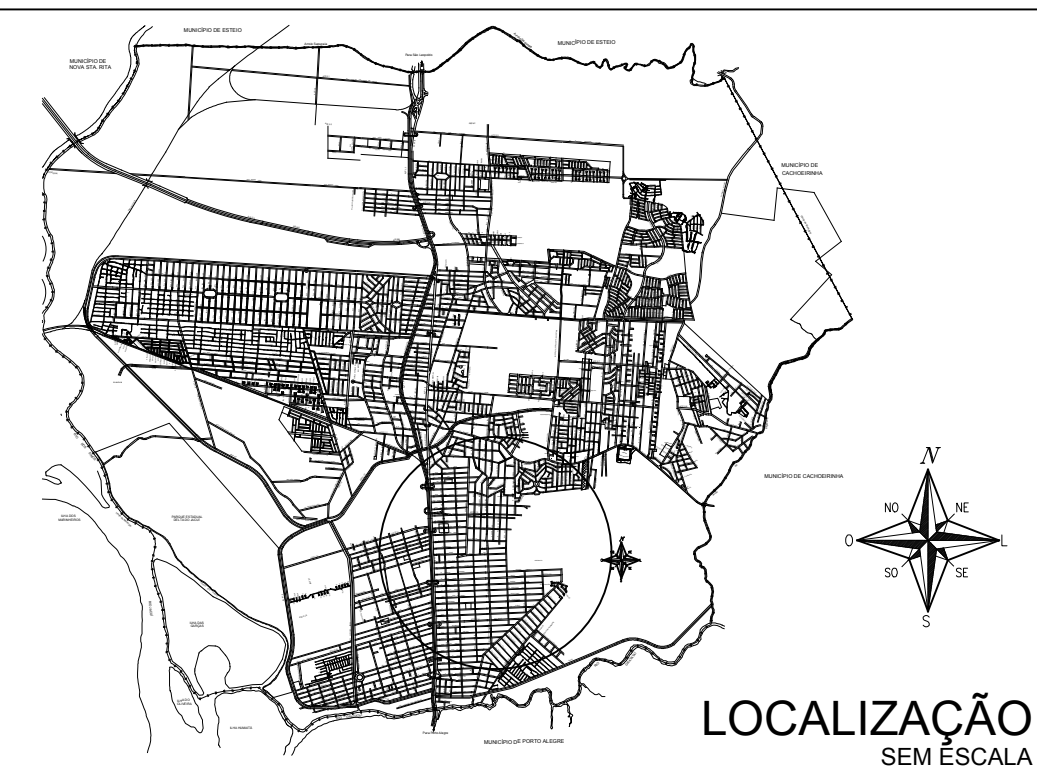
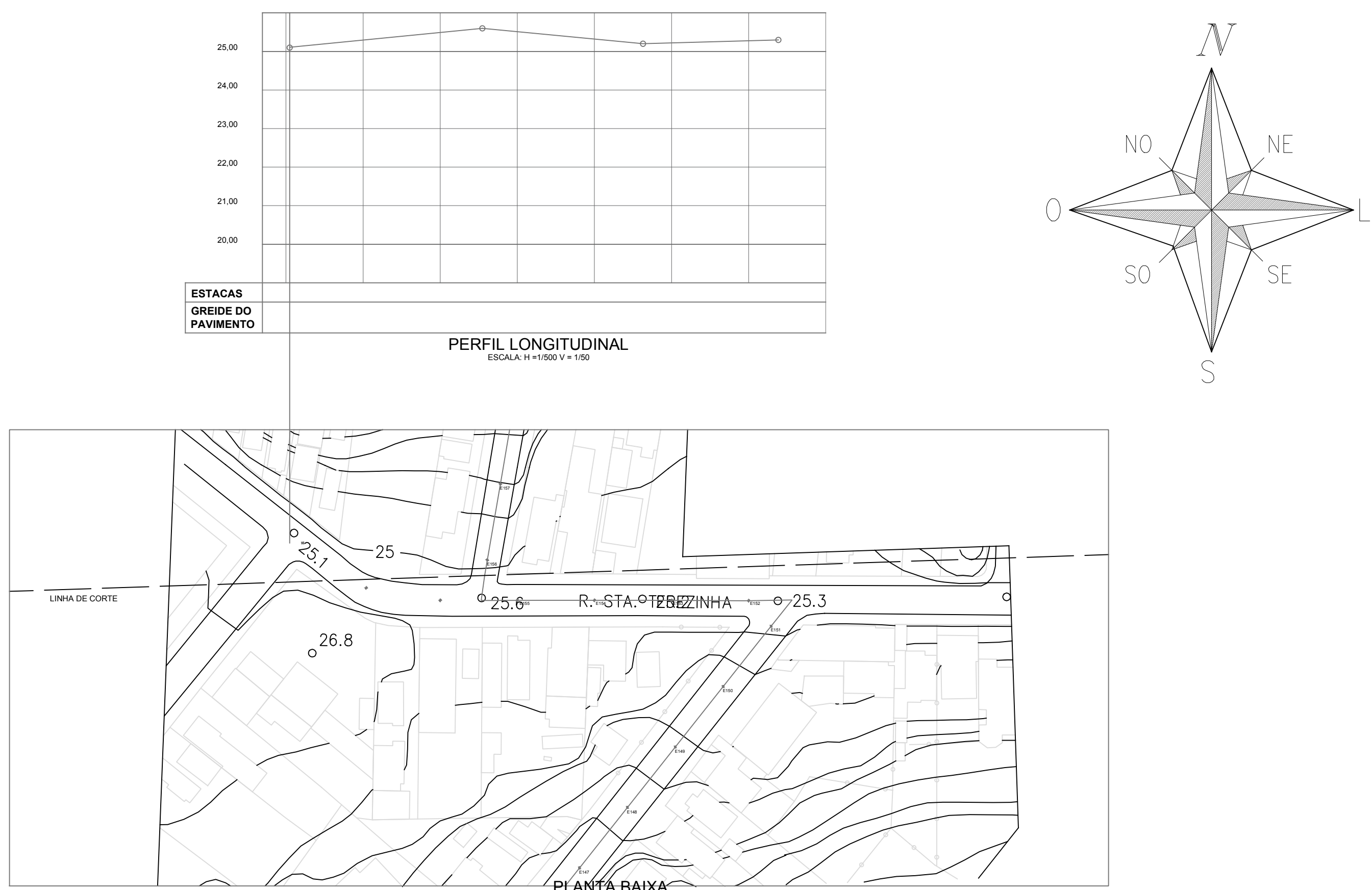
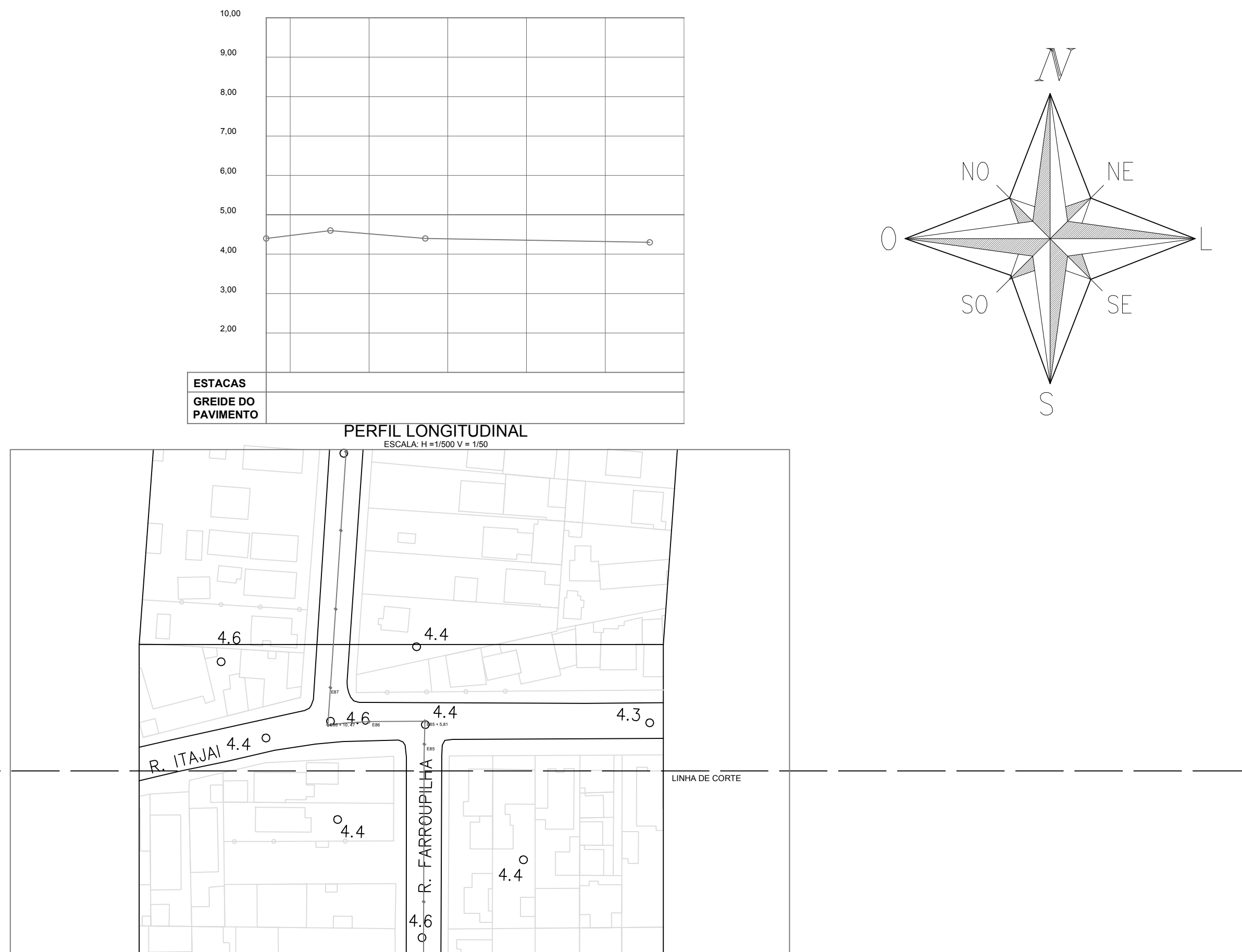
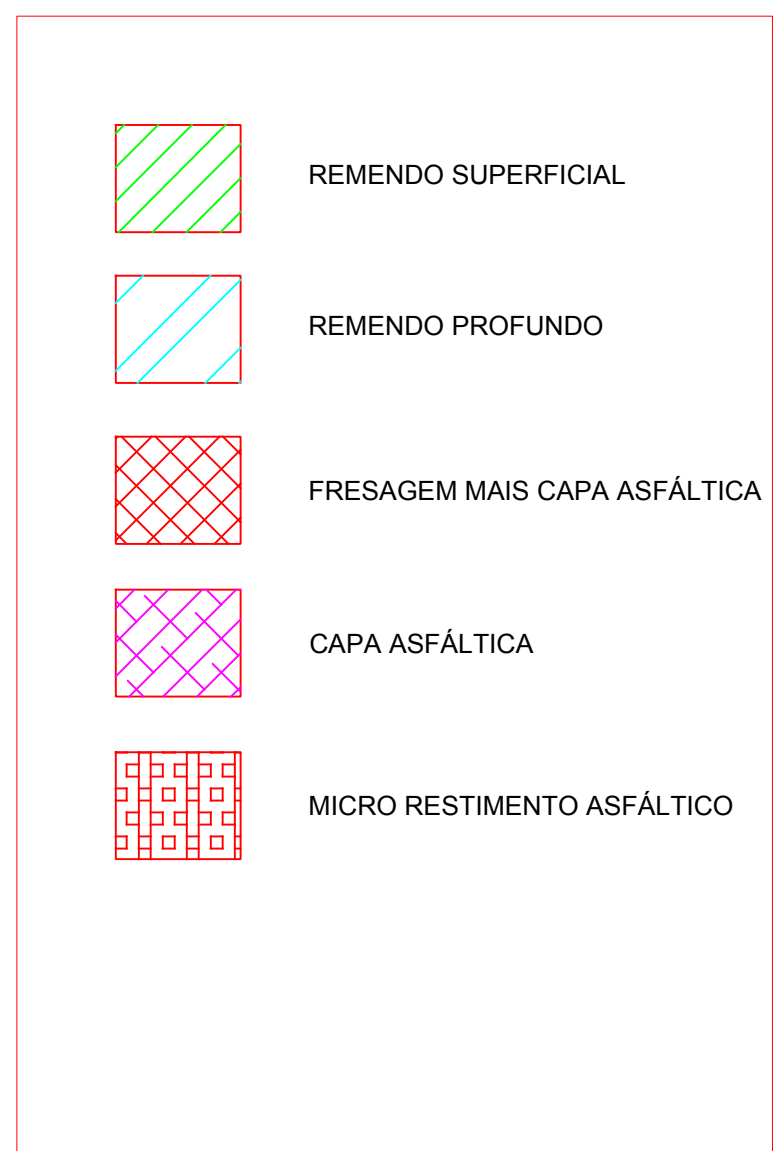
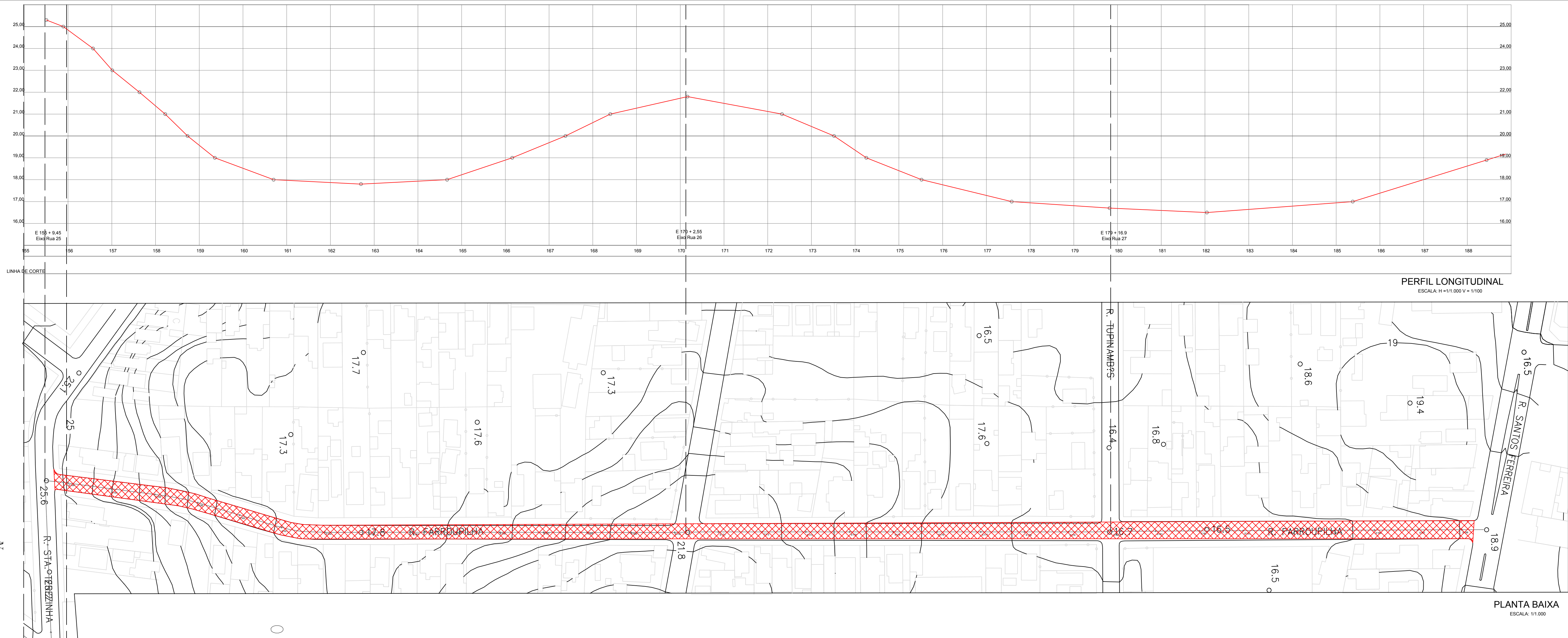
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H: 1:1000

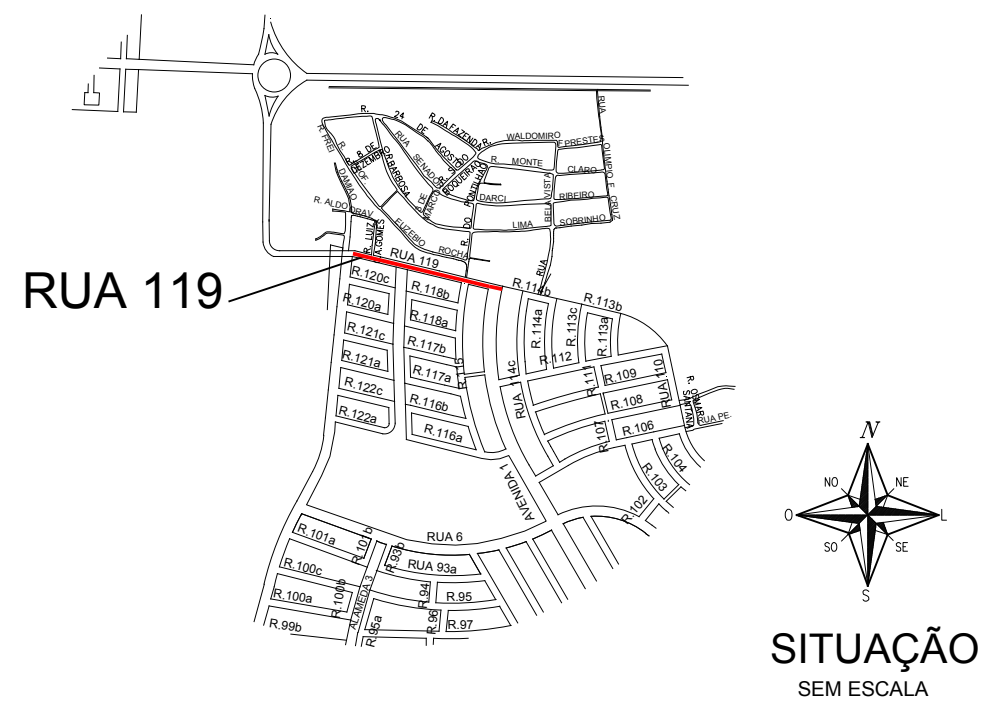
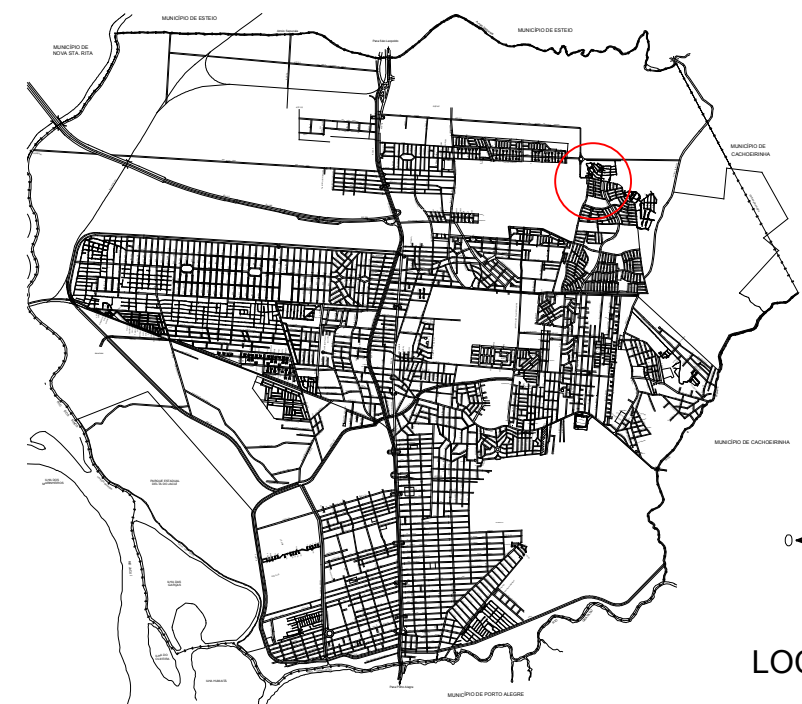
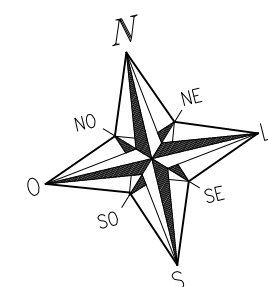
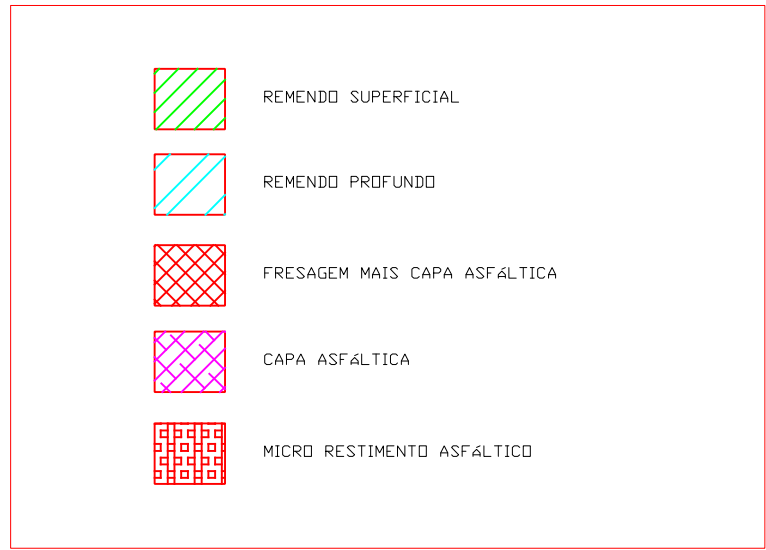
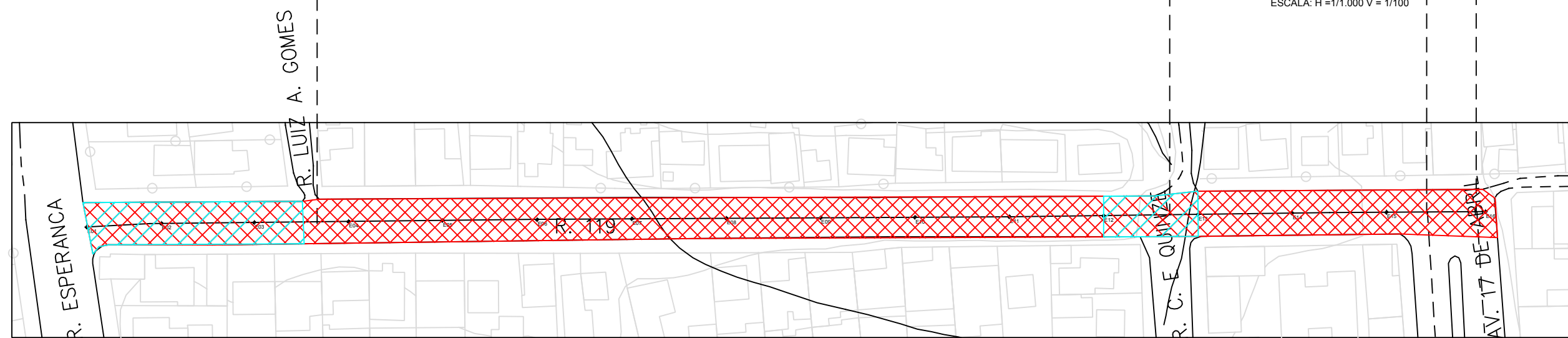
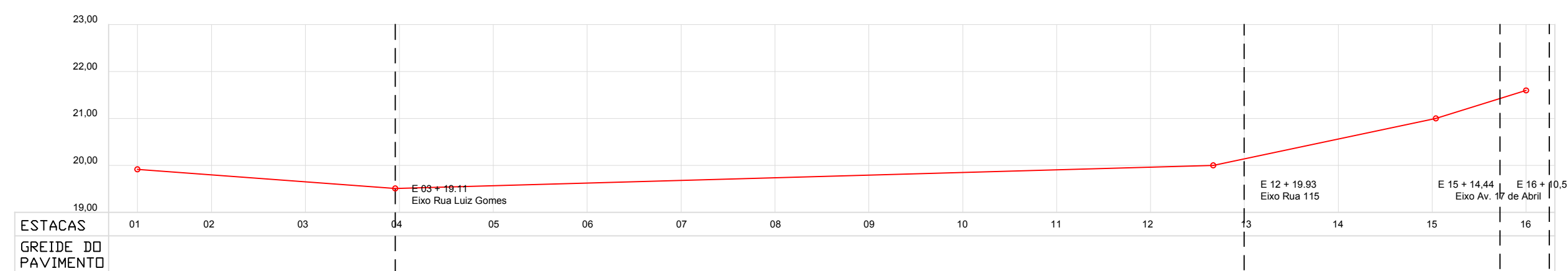
ESCALA
V: 1:100
H: 1:1000

TOPOGRAFIA
Geocanoas

DENRHO
Danielle Jung

03/04





PREFEITURA MUNICIPAL DE CANOAS

SMD - DPOV

/março/2019

LEVANTAMENTO PLANIALTIMÉTRICO, PLANTA BAIXA, PERFIL E SOLUÇÃO ADOTADA

VIA: RUA 119

PROJETO
Engº Maurício da Rocha
Engº Marco Antonio da Silva Oliveira

CREA
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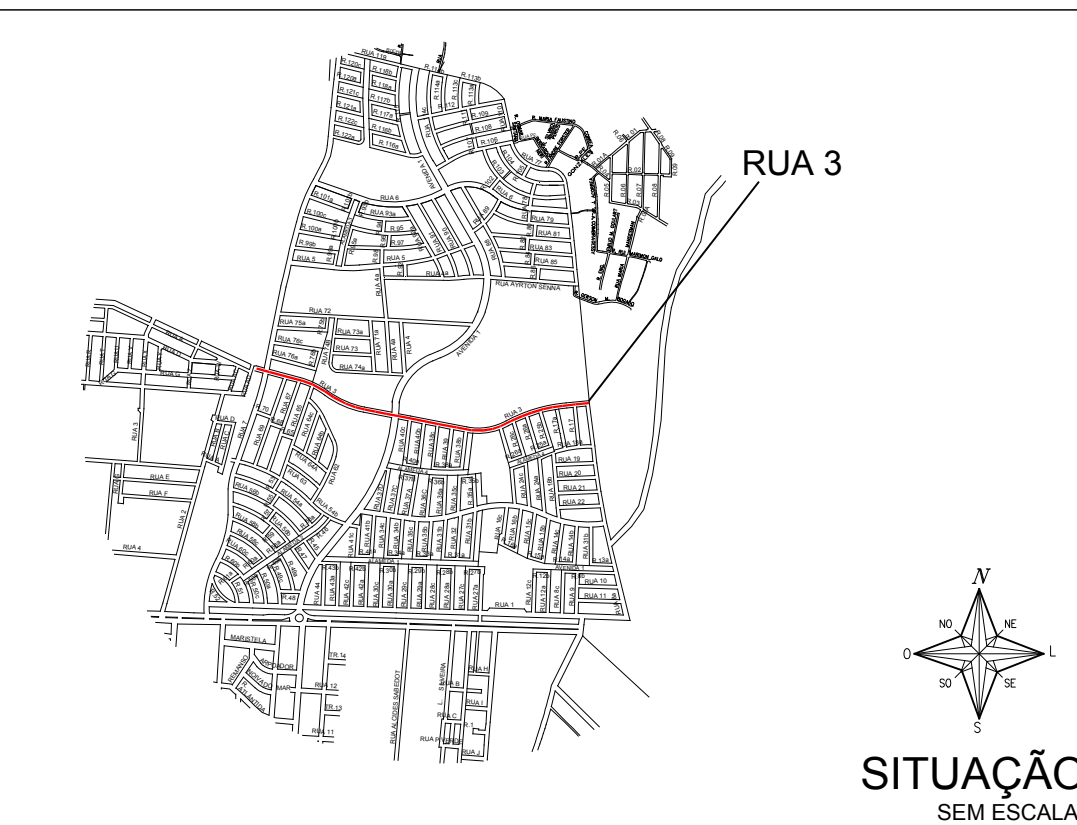
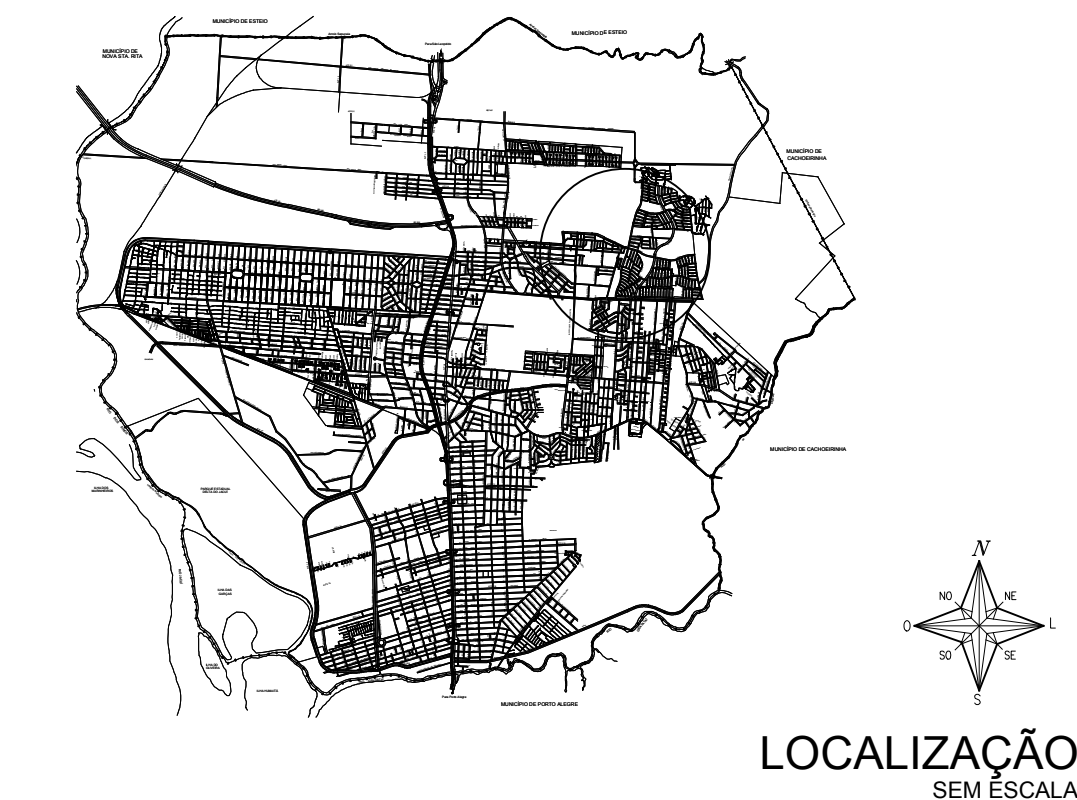
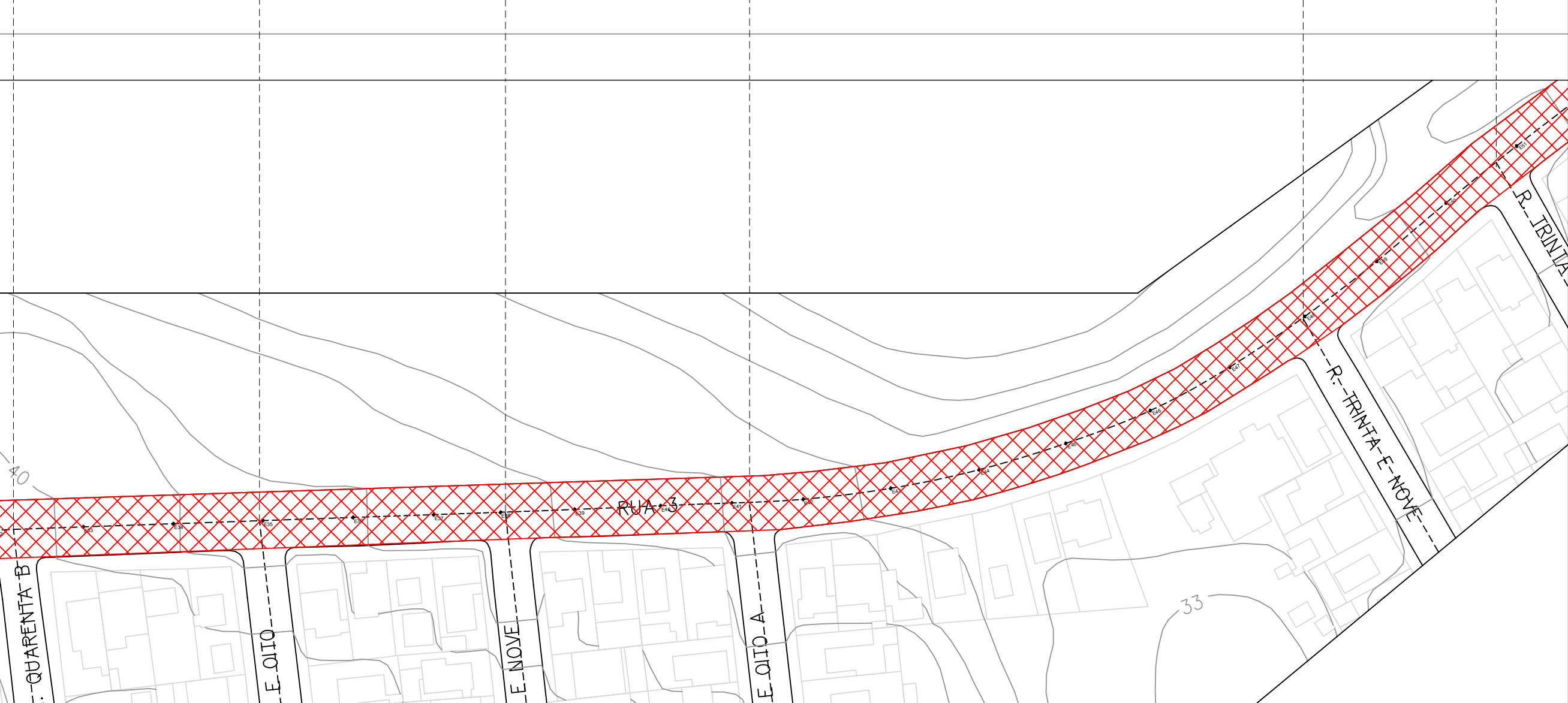
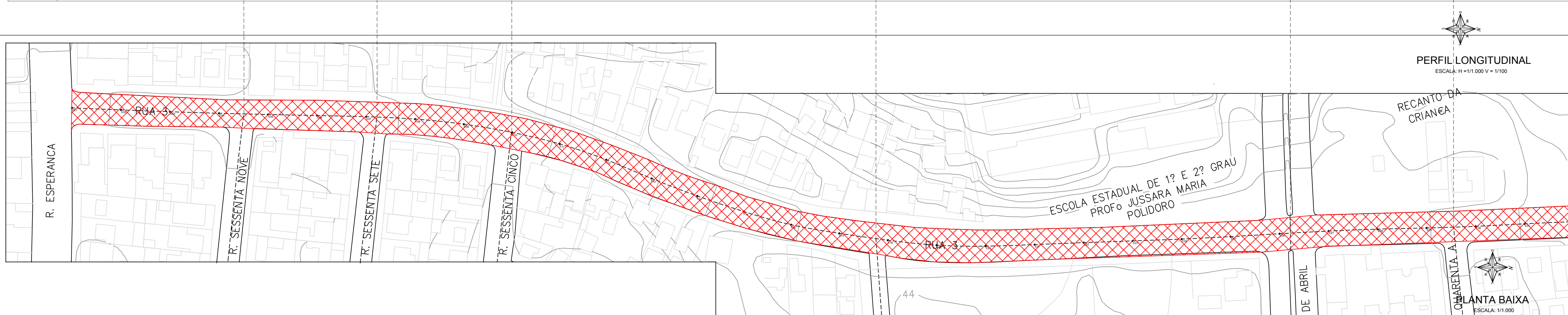
ESCALA
V: 1/100
H: 1/1000

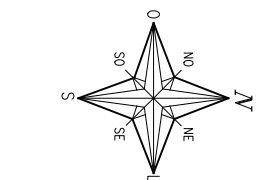
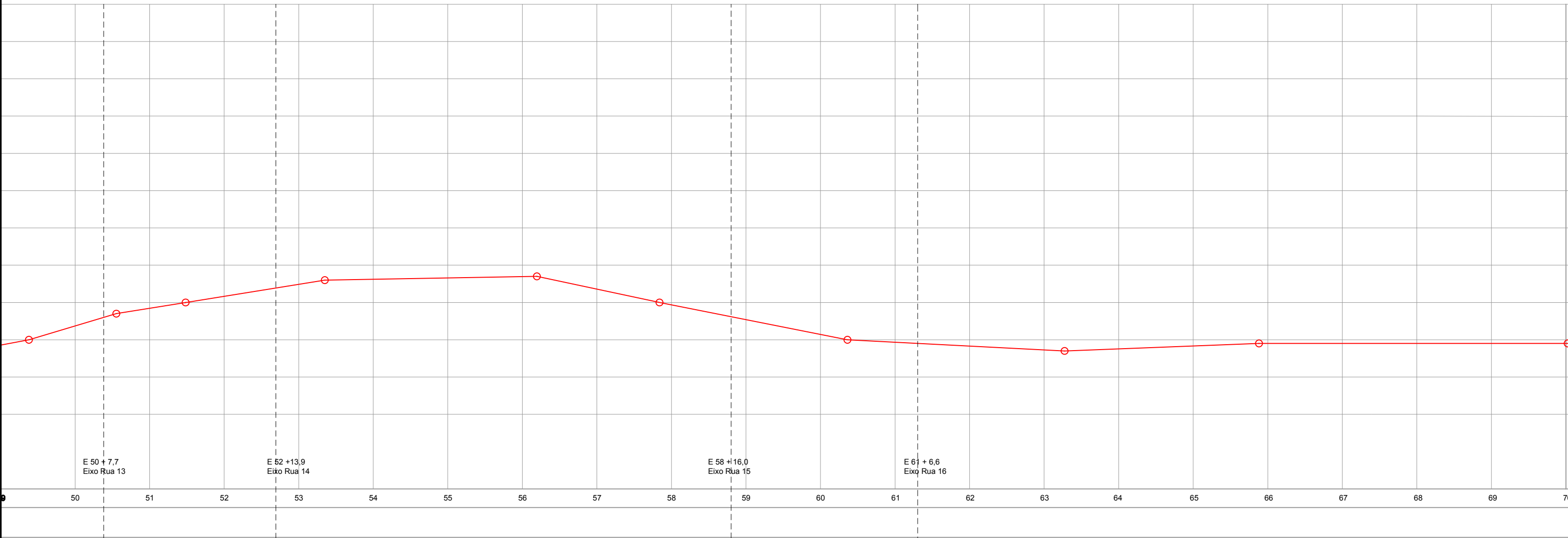
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V: 1/100
H: 1/1000

TOPOGRAFIA
Geocanoas

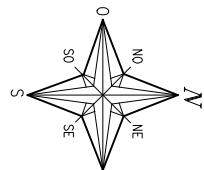
DESENHO
Maria Carvalho

01/01





PERFIL LONGITUDINAL
ESCALA: H = 1/1.000 V = 1/100



PLANTA BAIXA
ESCALA: 1/1.000

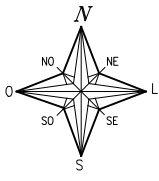
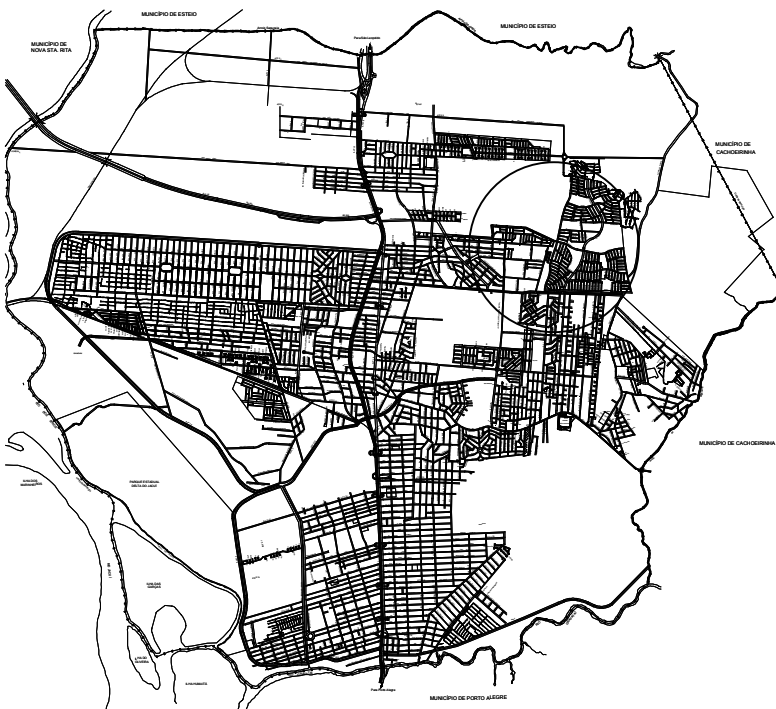
REMENDO SUPERFICIAL

REMENDO PROFUNDO

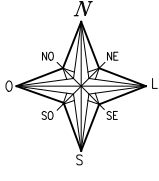
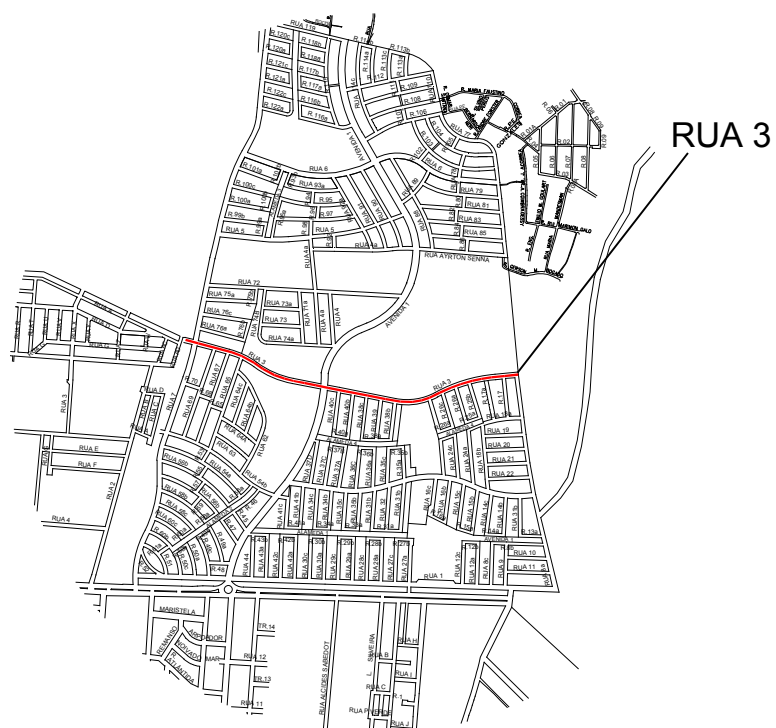
FRESAGEM MAIS CAPA ASFÁLTICA

CAPA ASFÁLTICA

MICRO RESTIMENTO ASFÁLTICO



LOCALIZAÇÃO
SEM ESCALA



SITUAÇÃO
SEM ESCALA



PREFEITURA MUNICIPAL DE CANOAS
SMO - DPOV

___/___/2019

LEVANTAMENTO PLANIALTIMÉTRICO, PLANTA BAIXA, PERFIL E SOLUÇÃO ADOTADA

VIA: RUA 3

PROJETO
Engº Maurício da Rocha
Engº Marco Antonio da Silva Oliveira

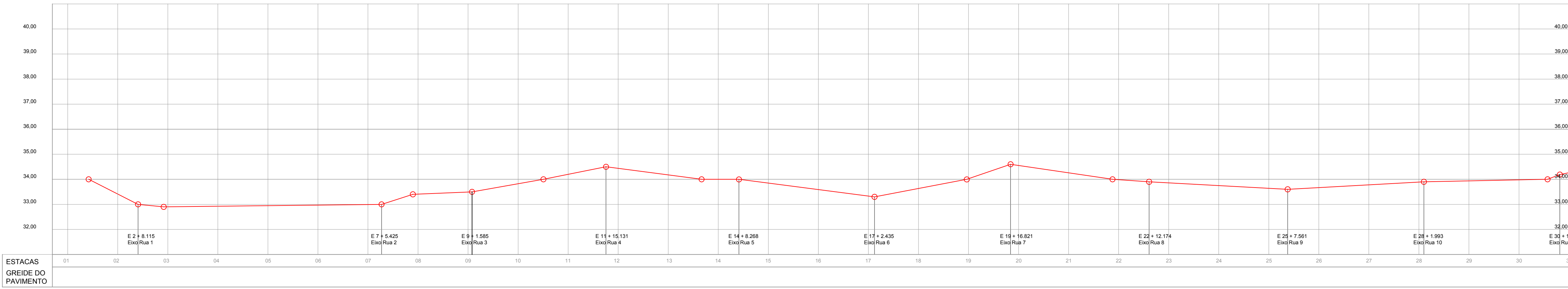
CREA
102848
183876

ESCALA
V: 1:100
H: 1:1000

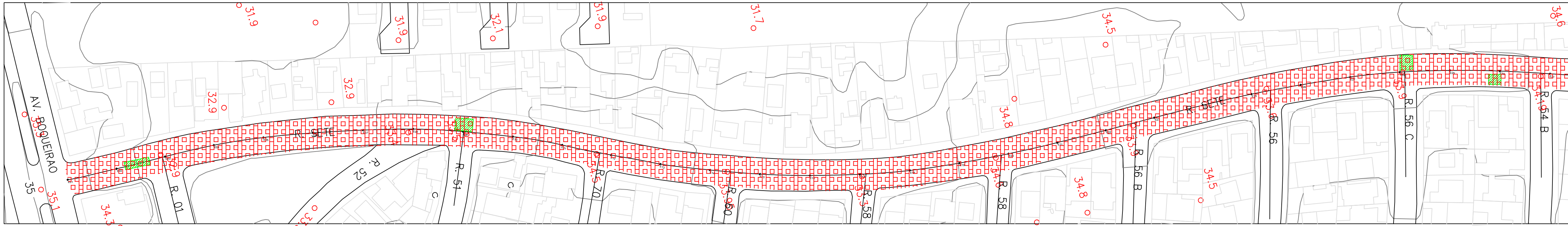
ESCALA
V: 1:100
H: 1:1000

TOPOGRAFIA
GEODINÔSIS

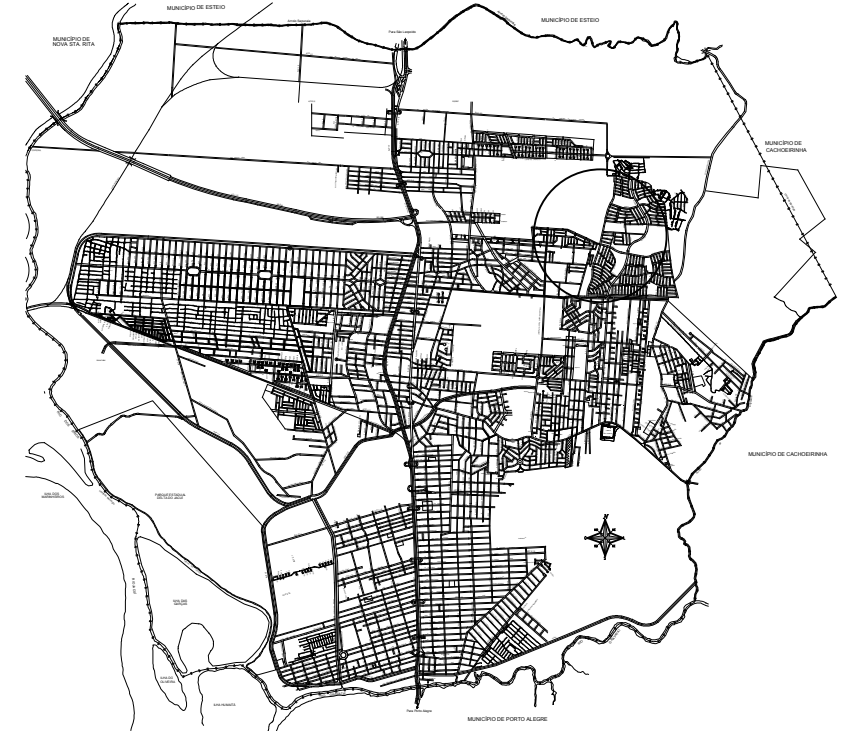
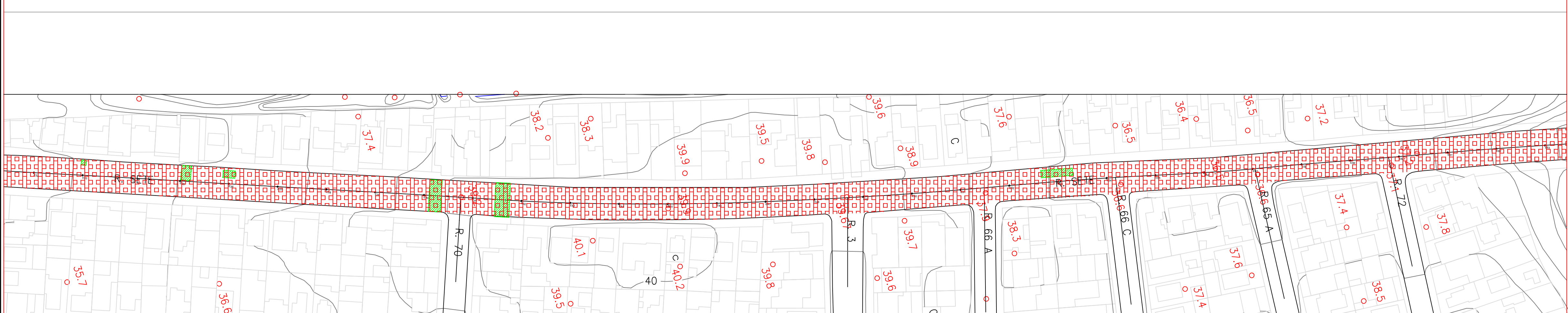
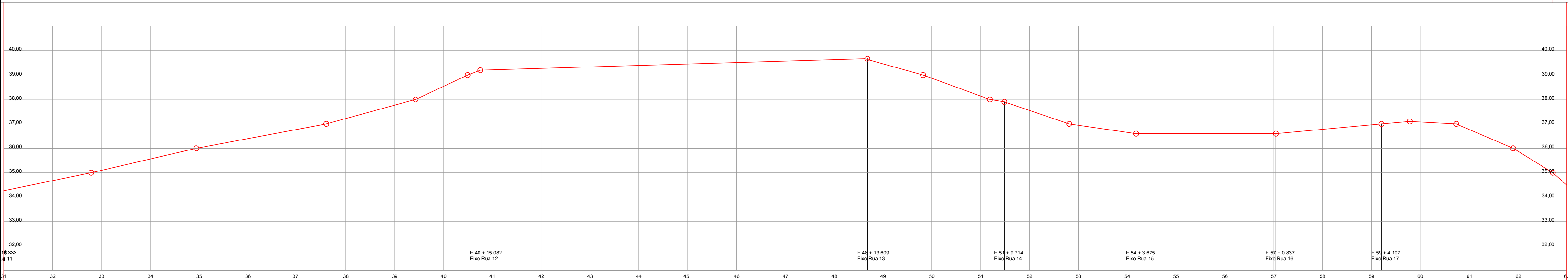
DESENHO
Carolina Becker



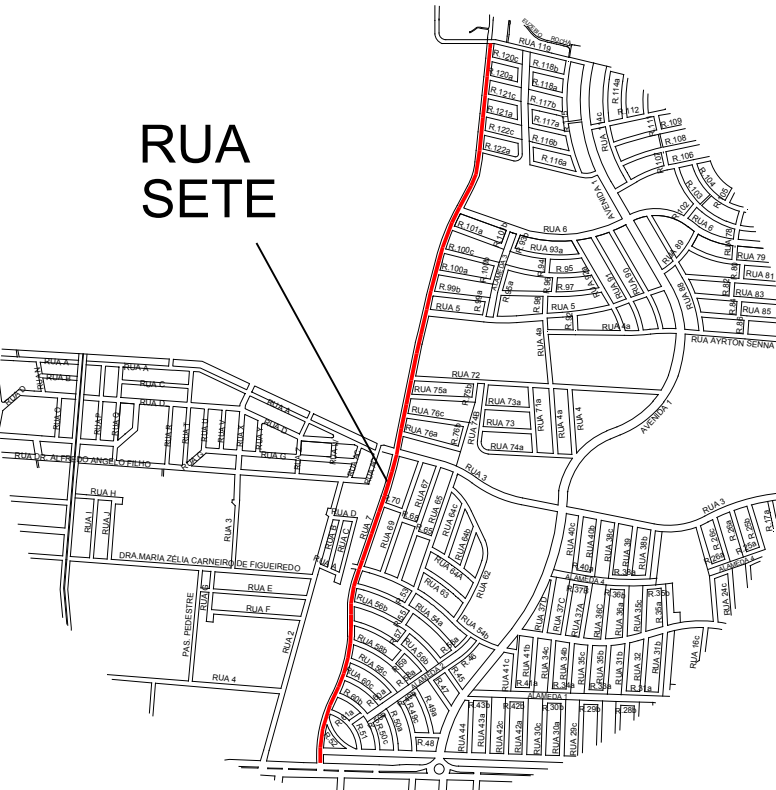
PERFIL LONGITUDINAL
ESCALA: H = 1/1.000 V = 1/100



PLANTA BAIXA
ESCALA: 1/1.000



LOCALIZAÇÃO
SEM ESCALA



SITUAÇÃO
SEM ESCALA



PREFEITURA MUNICIPAL DE CANOAS
SMO - DPOV

11/03/2019

LEVANTAMENTO PLANIALTIMÉTRICO, PLANTA BAIXA, PERFIL E SOLUÇÃO ADOTADA

VIA: RUA ESPERANÇA (RUA 7)

PROJETO:
Engº Mauricio da Rocha
Engº Marco Antonio da Silva Oliveira

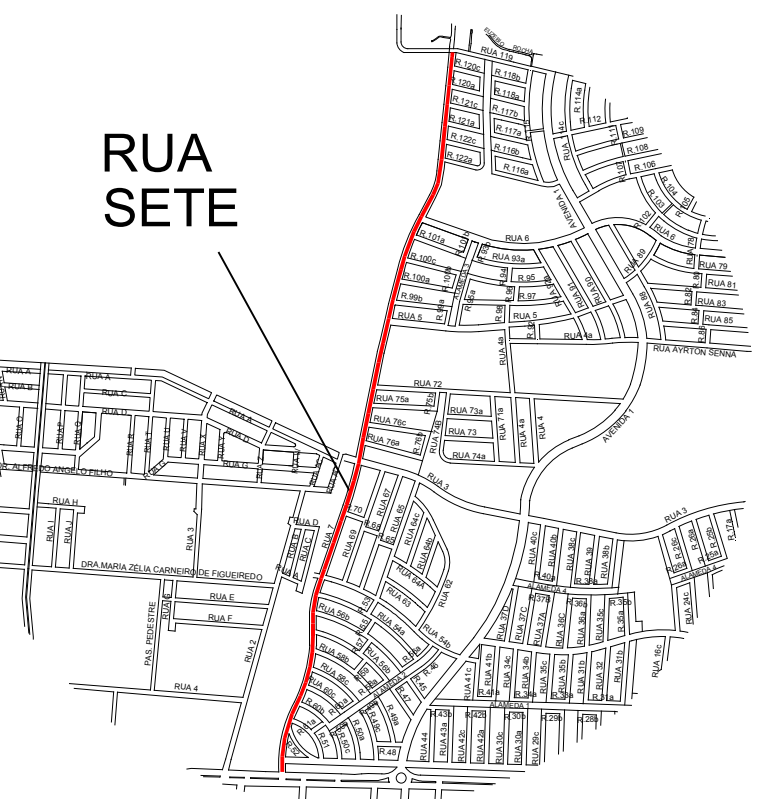
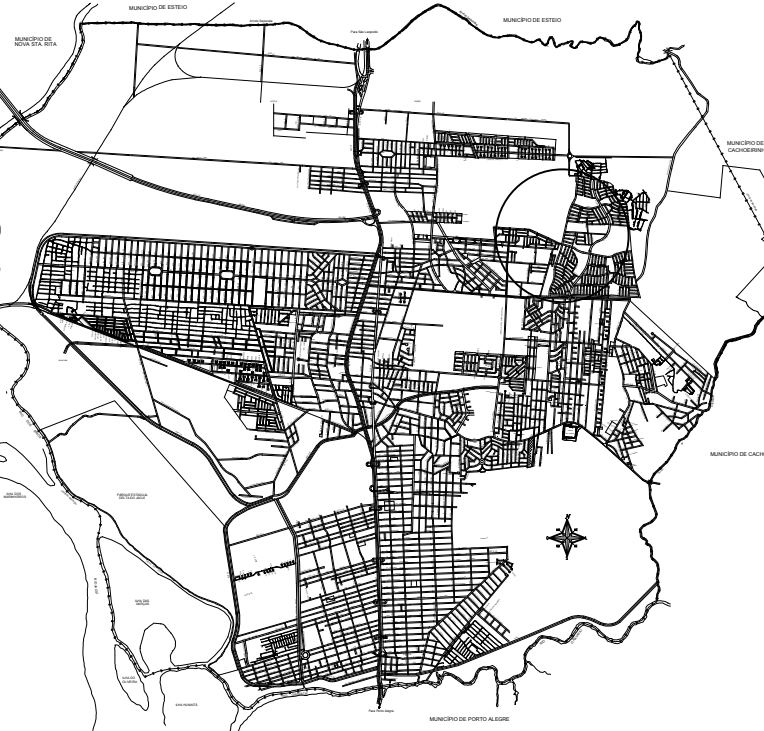
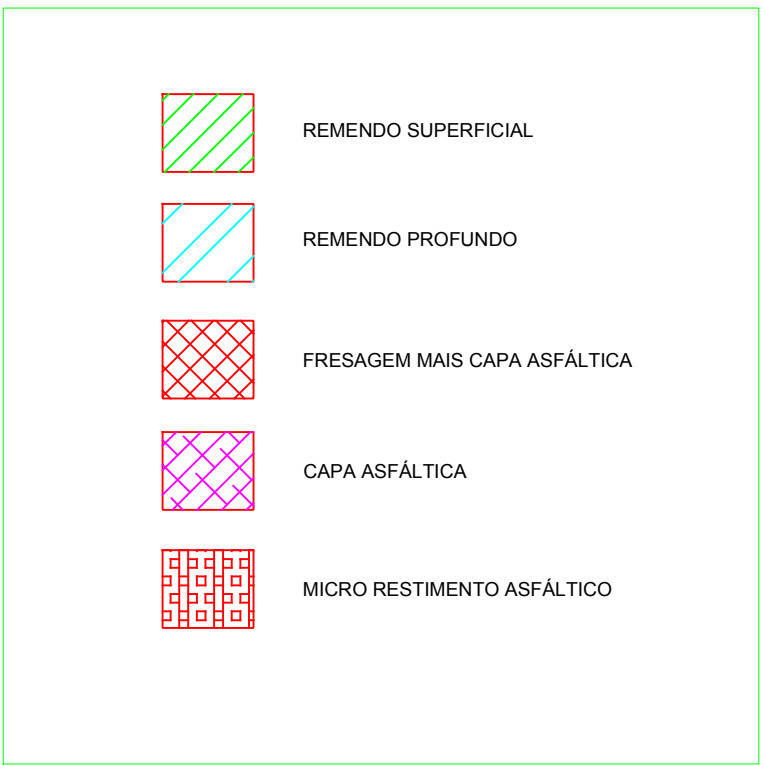
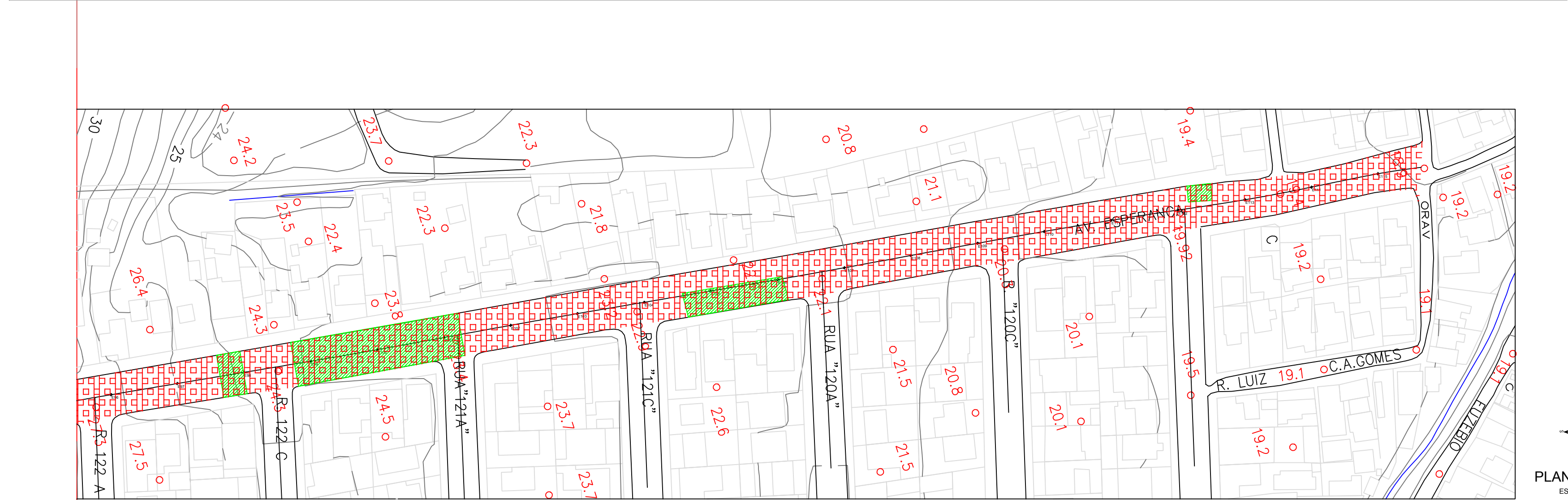
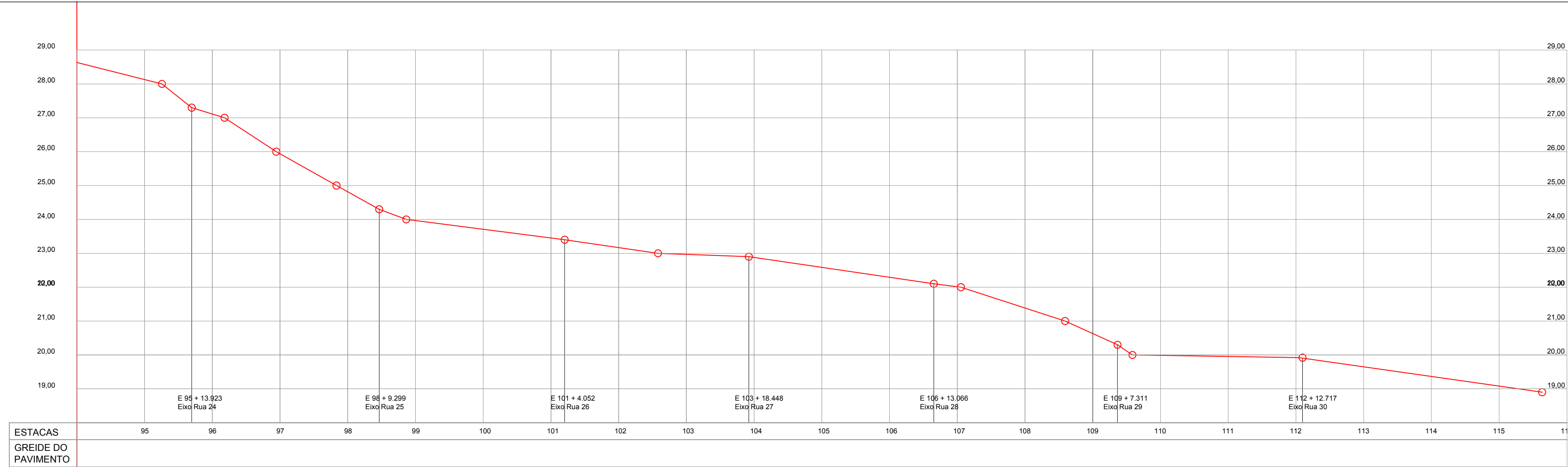
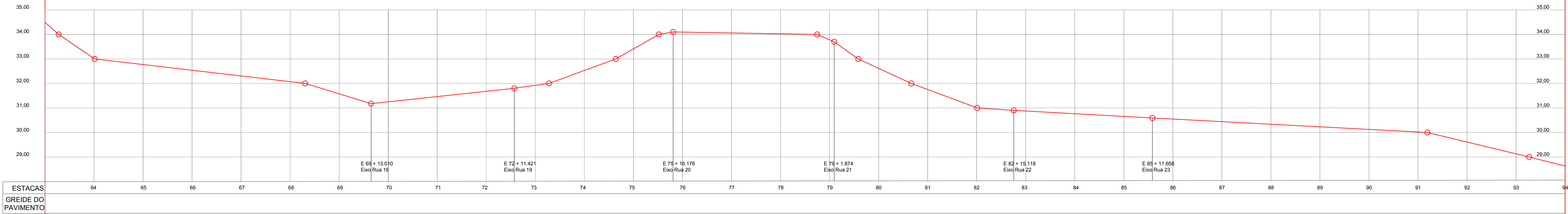
CREA
102848
183876

ESCALA
V: 1:100
H: 1:1000

ESCALA
V: 1:100
H: 1:1000

TOPOGRAFIA
GEODINAMIS

DESENHO
Carolina Becker



PREFEITURA MUNICIPAL DE CANOAS
SMO - DPOV

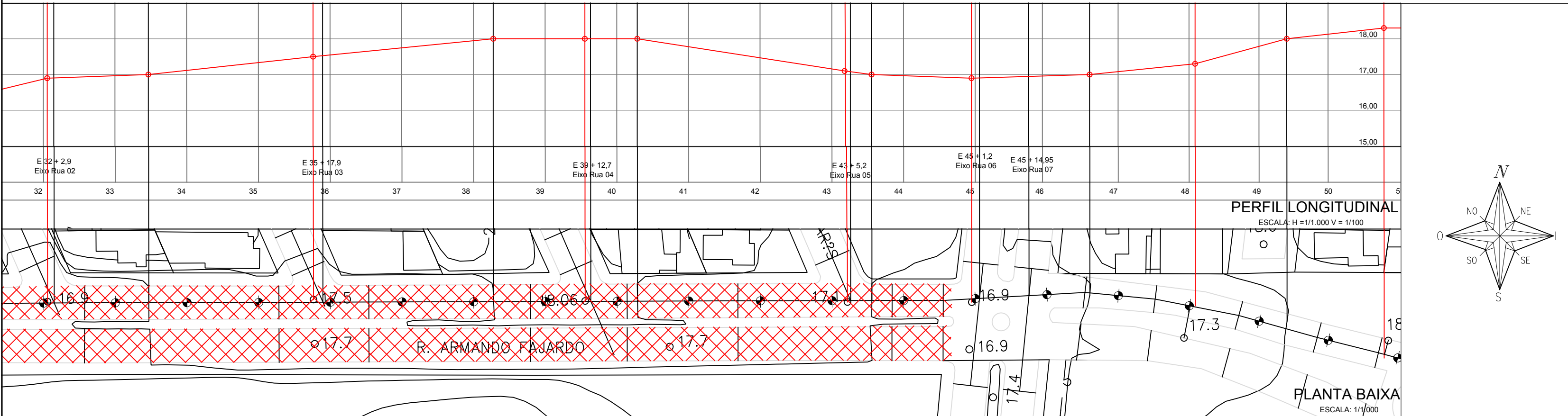
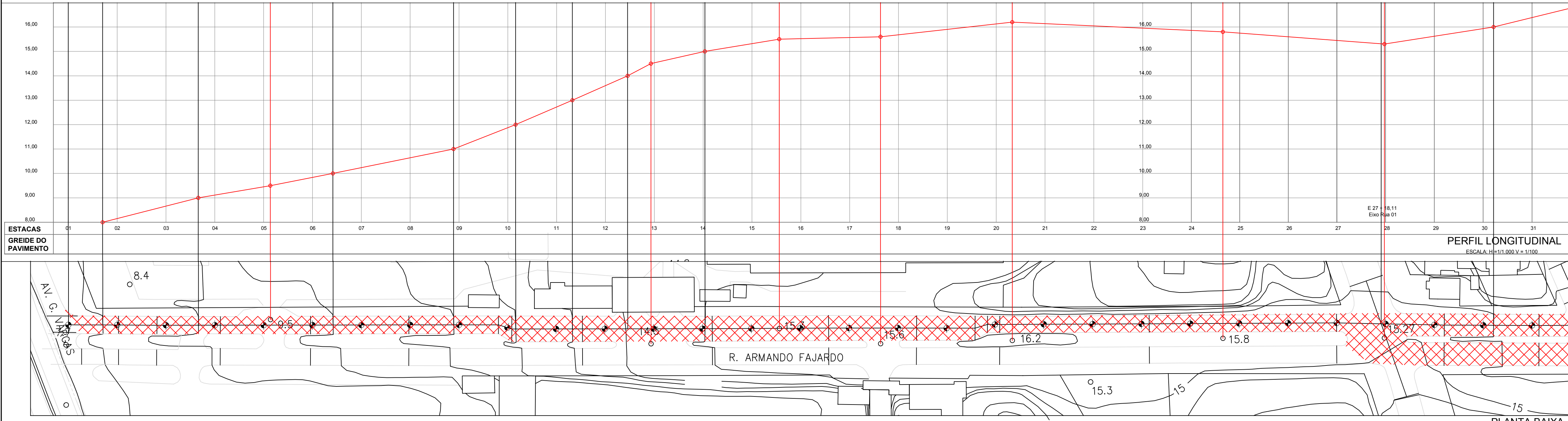
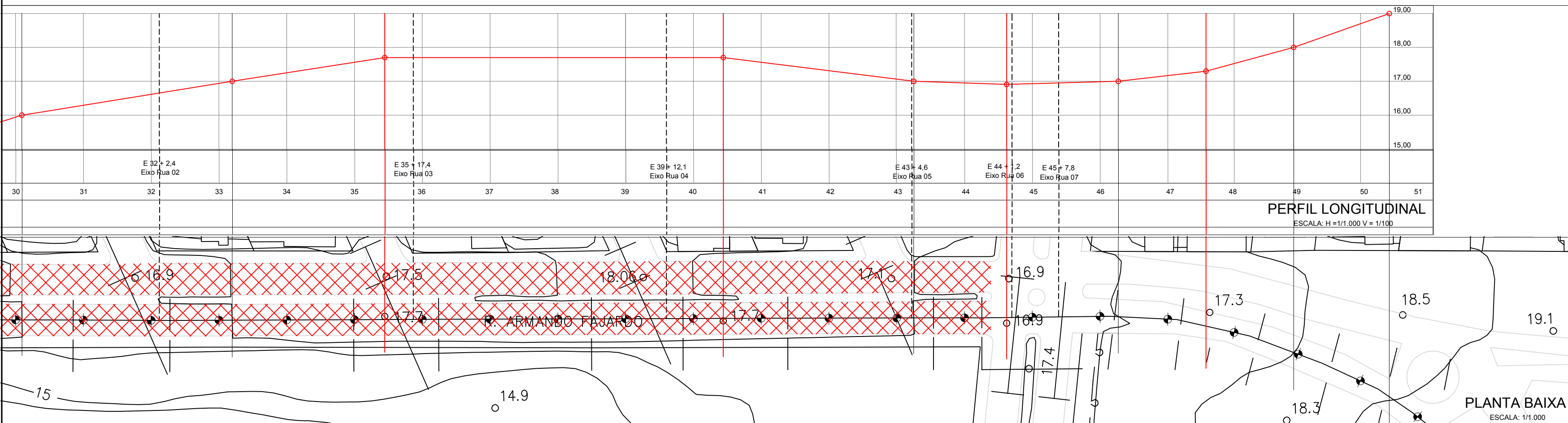
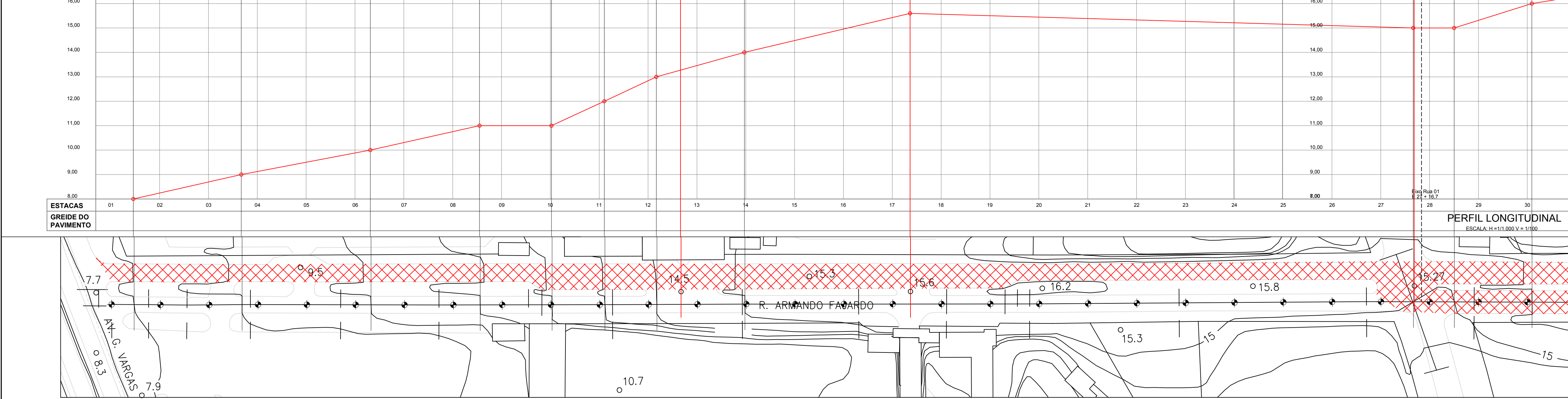
LEVANTAMENTO PLANIALTIMÉTRICO, PLANTA BAIXA, PERFIL E SOLUÇÃO ADOTADA

VIA: RUA ESPERANÇA (RUA 7)

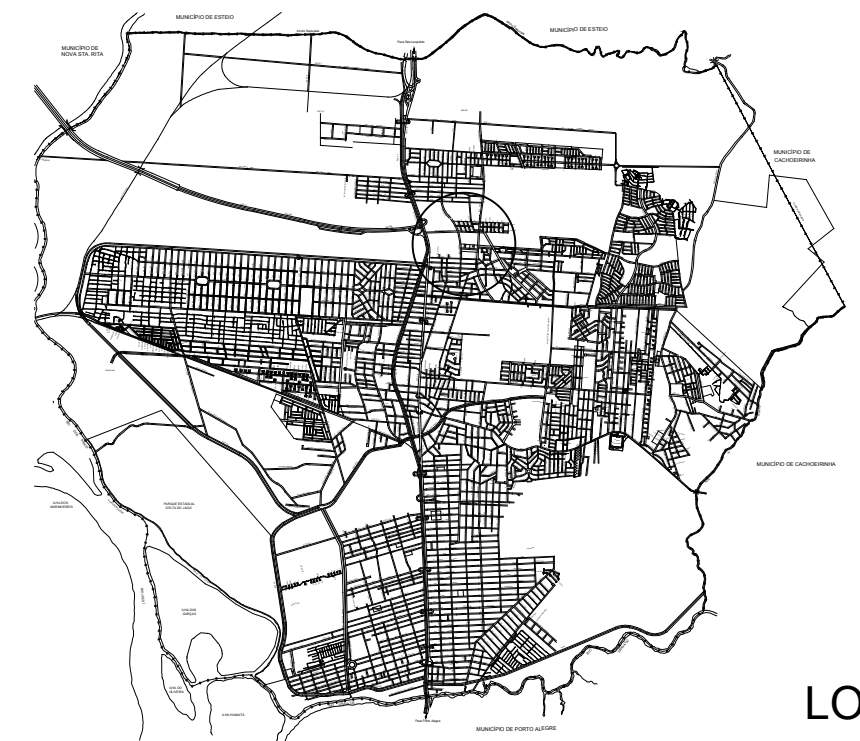
PROJETO: Engº Maurício da Rocha
Engº Marco Antonio da Silva Oliveira

ESCALA: V: 1:100
H: 1:1000

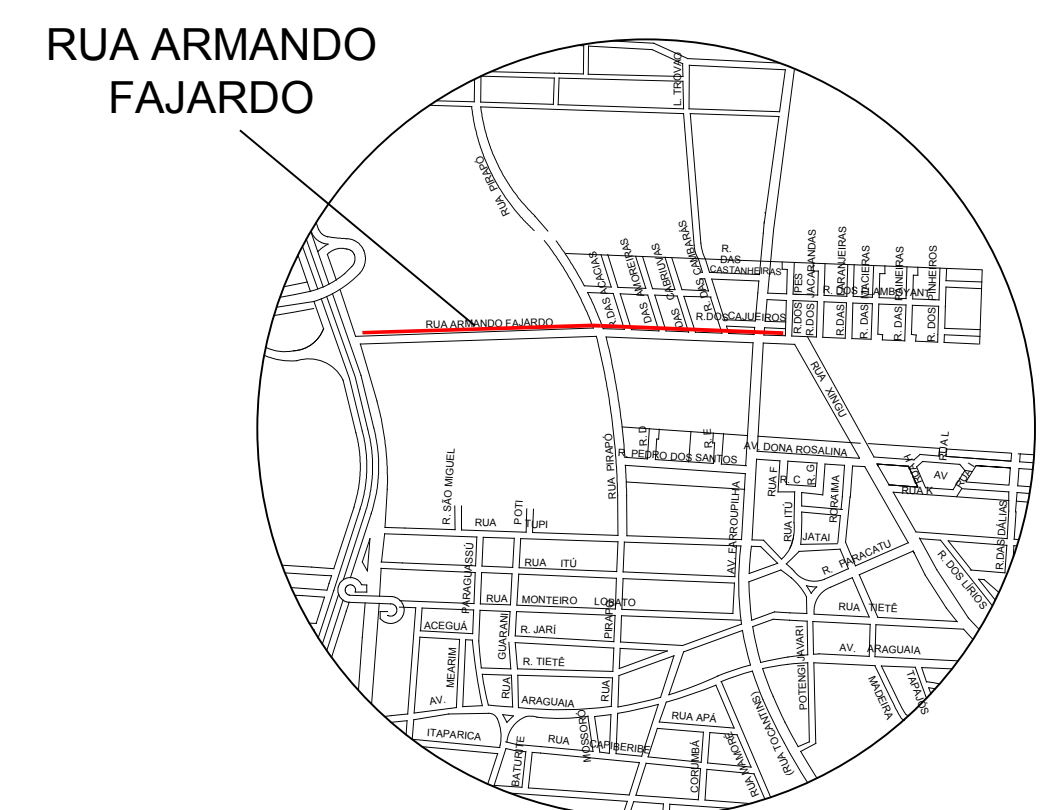
DESENHO: Carolina Becker



- REMENDO SUPERFICIAL
- REMENDO PROFUNDO
- FRESAGEM MAIS CAPA ASFÁLTICA
- CAPA ASFÁLTICA
- MICRO RESTIMENTO ASFÁLTICO



LOCALIZAÇÃO
SEM ESCALA



SITUAÇÃO
SEM ESCALA



PREFEITURA MUNICIPAL DE CANOAS
SMO - DPOV

LEVANTAMENTO PLANIALTIMÉTRICO, PLANTA BAIXA, PERFIL E SOLUÇÃO ADOTADA

VIA: ARMANDO FAJARDO

PROJETO
Engº Maurício da Rocha
Engº Marco Antonio da Silva Oliveira

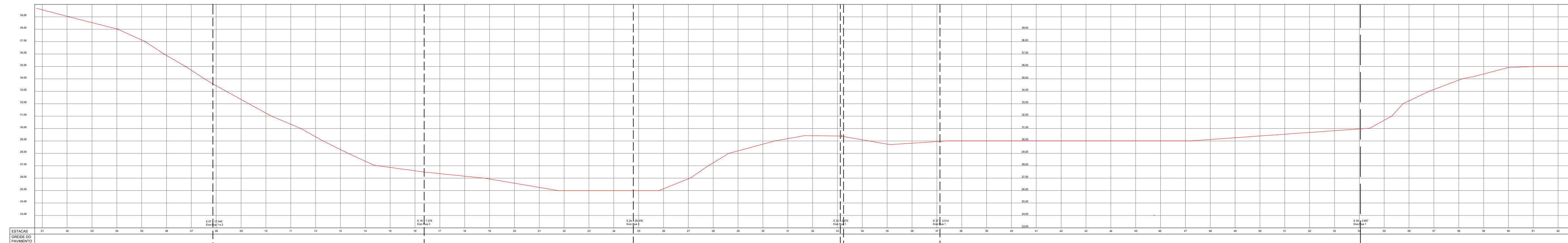
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ESCALA
V: 1:100
H: 1:1000

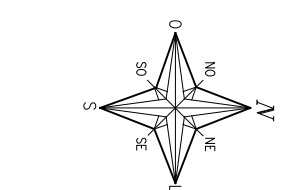
TOPOGRAFIA
Geocanoas

DESENHO
Danielle Jung

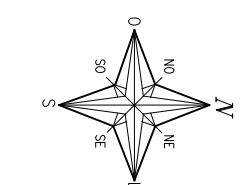
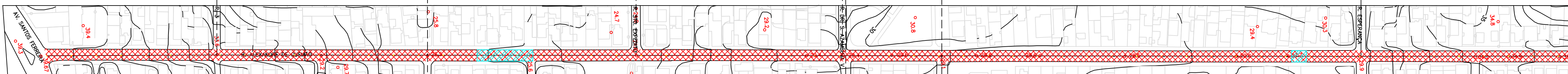
01/01



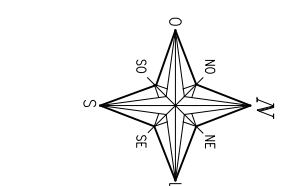
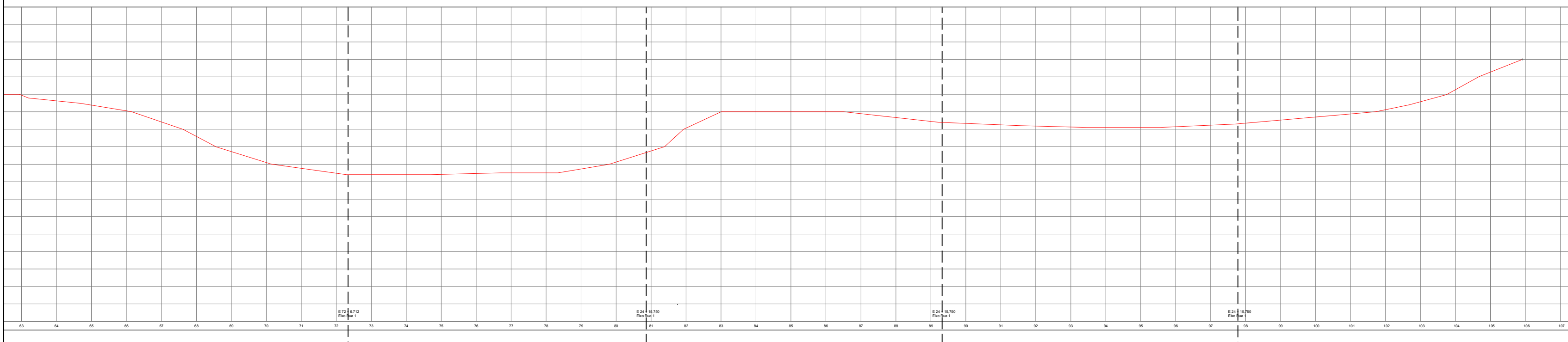
PERFIL LONGITUDINAL



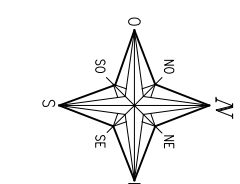
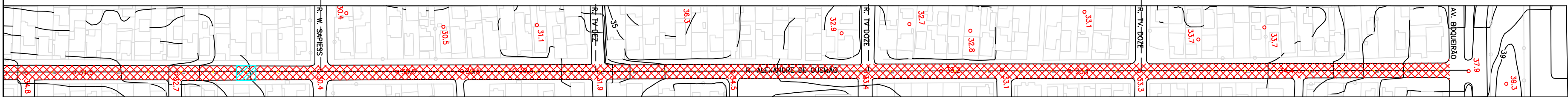
PERFIL LONGITUDINAL
ESCALA: H = 1:1.000 V = 1:100



PLANTA BAIXA
ESCALA: 1:1.000

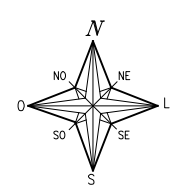
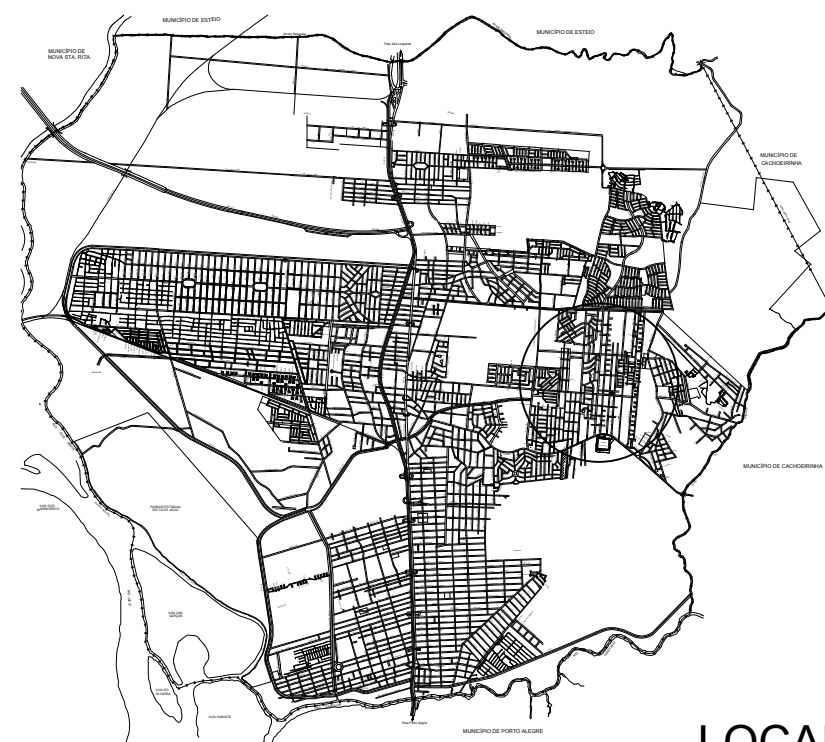


PERFIL LONGITUDINAL
ESCALA: H = 1:1.000 V = 1:100

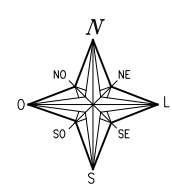
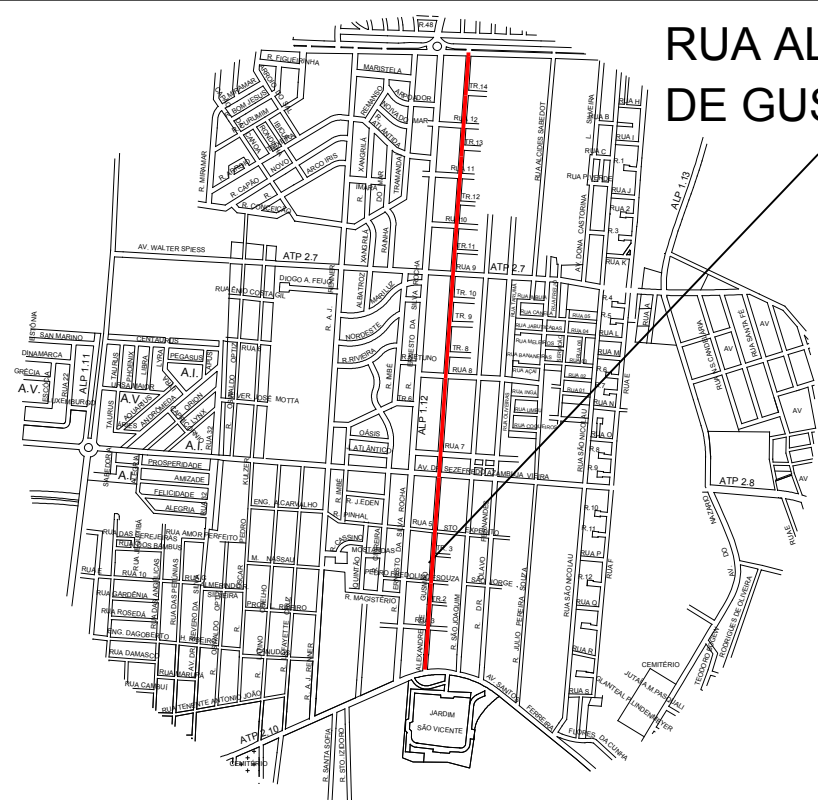


PLANTA BAIXA
ESCALA: 1:1.000

- REMEMDO SUPERFICIAL
- REMEMDO PROFUNDO
- FRESAGEM MAIS CAPA ASFÁLTICA
- CAPA ASFÁLTICA
- MICRO RESTIMENTO ASFÁLTICO



LOCALIZAÇÃO
SEM ESCALA



SITUAÇÃO
SEM ESCALA



PREFEITURA MUNICIPAL DE CANOAS
SMO - DPOV

março / 2019

LEVANTAMENTO PLANALTIMÉTRICO, PLANTA BAIXA, PERFIL E SOLUÇÃO ADOTADA

VIA: ALEXANDRE DE GUSMÃO

PROJETO
Engº Mauricio da Rocha
Engº Marco Antonio da Silva Oliveira

ORÇ
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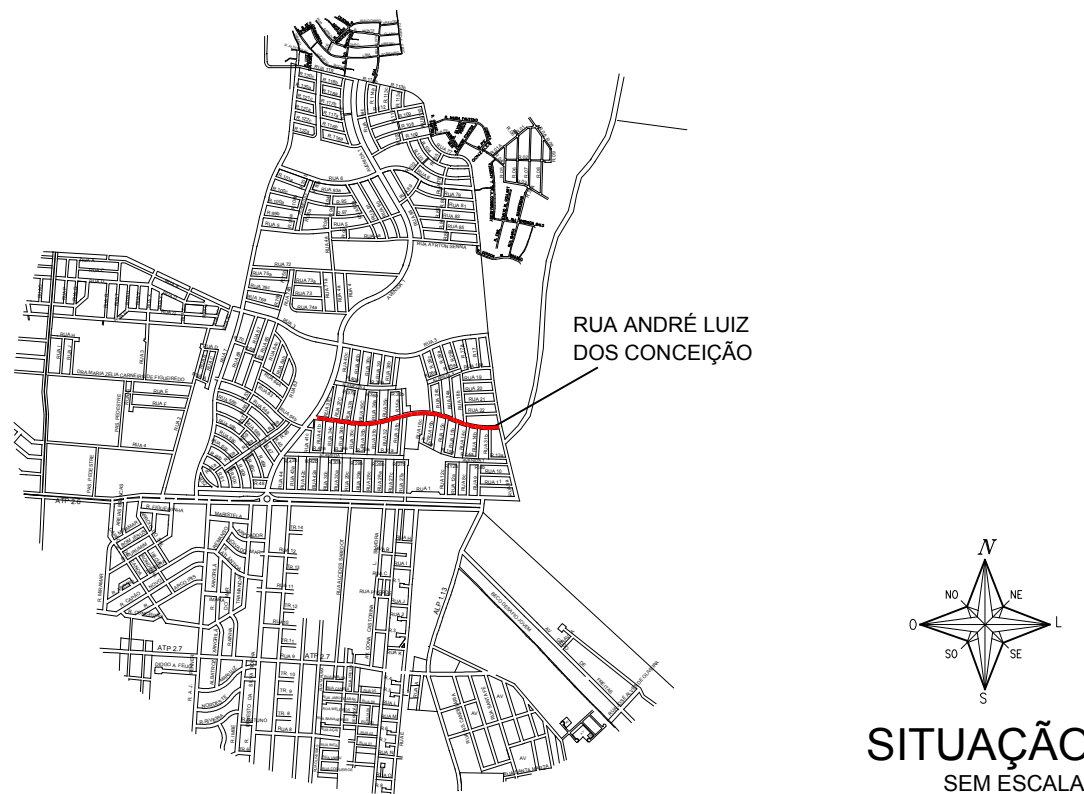
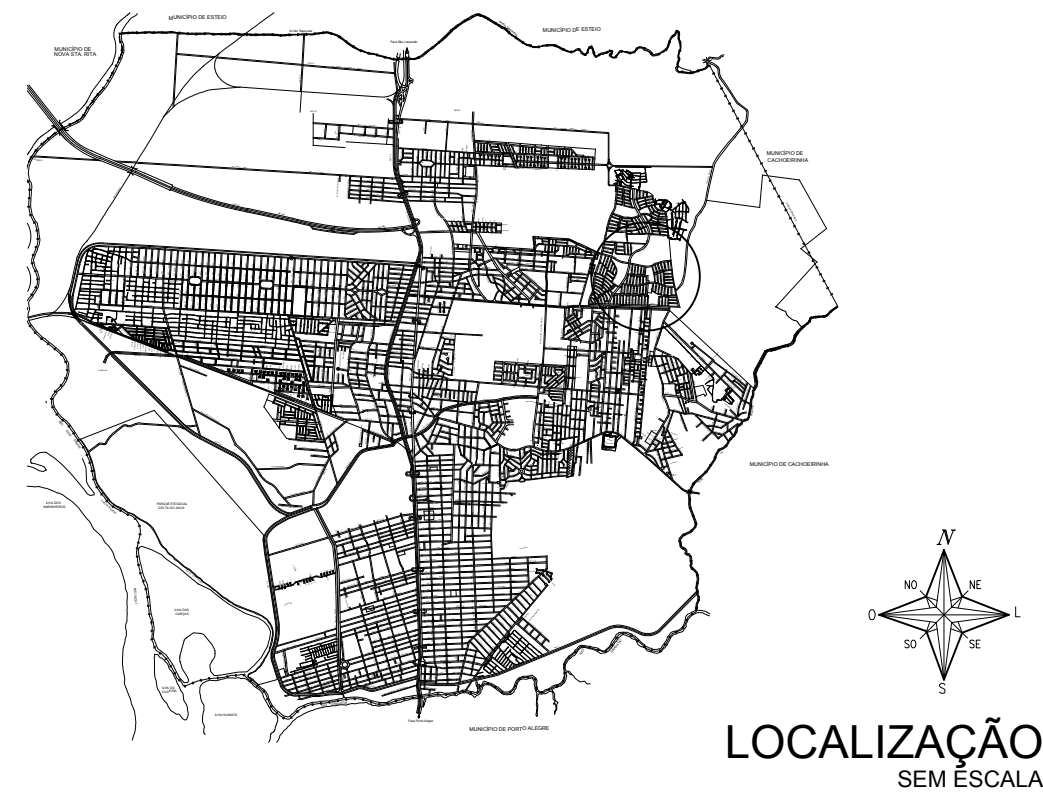
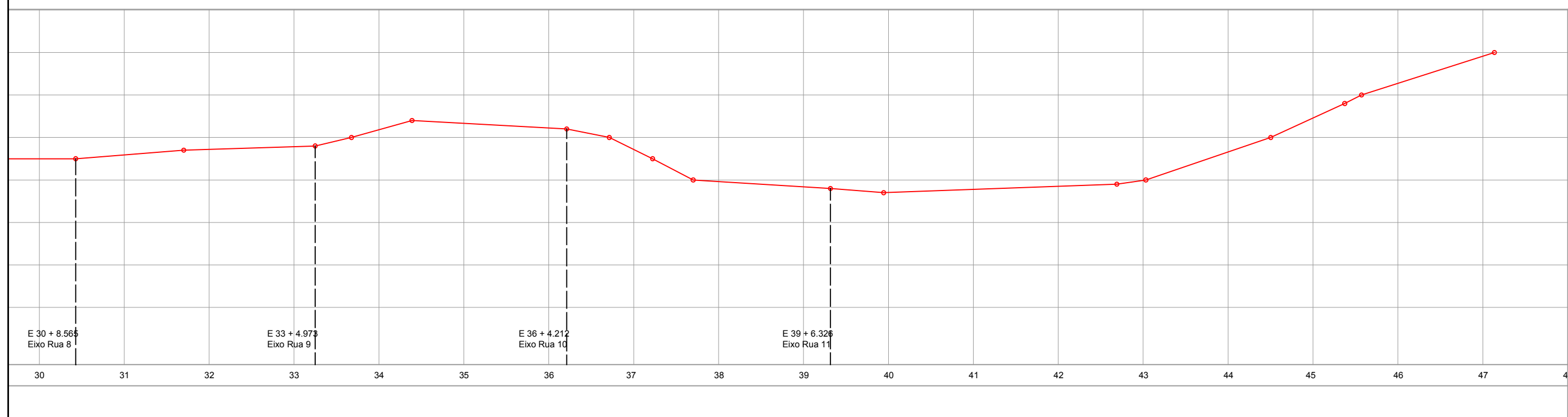
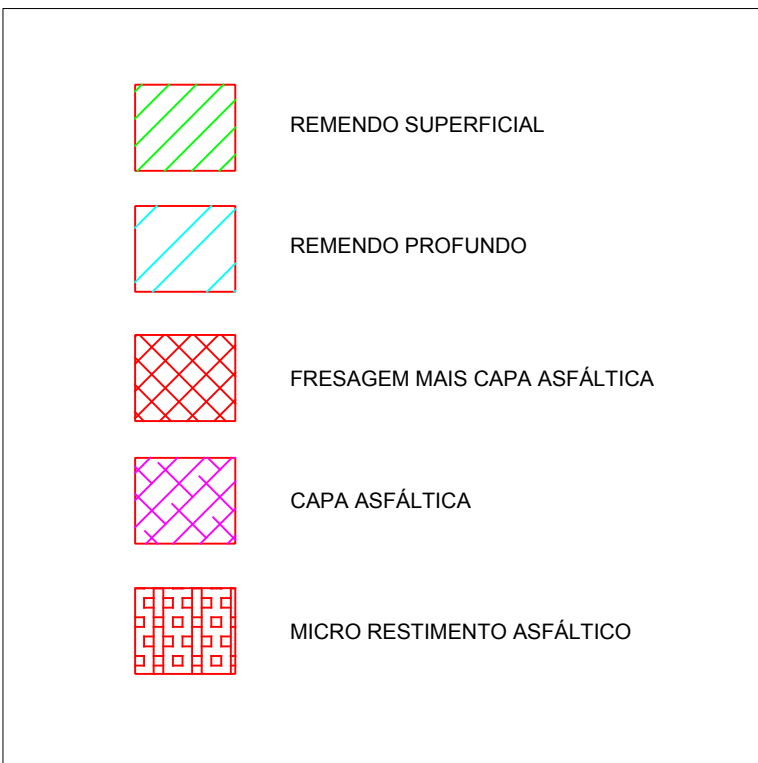
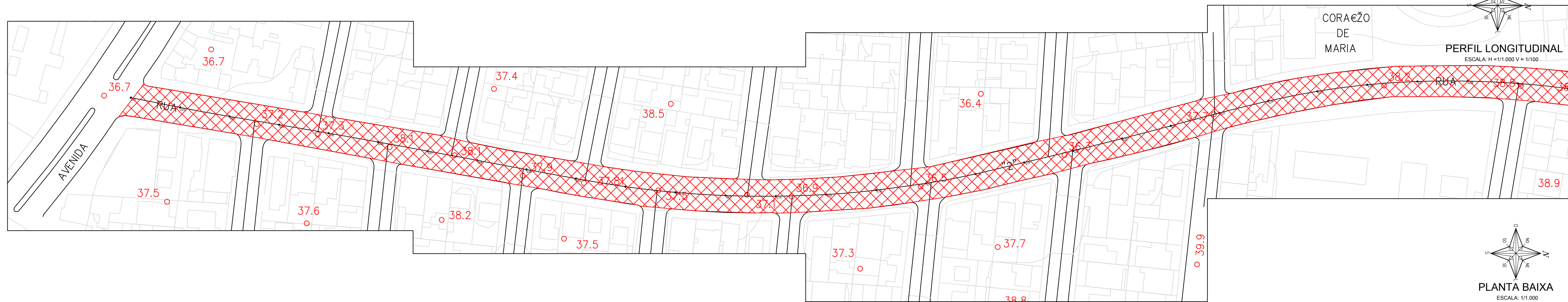
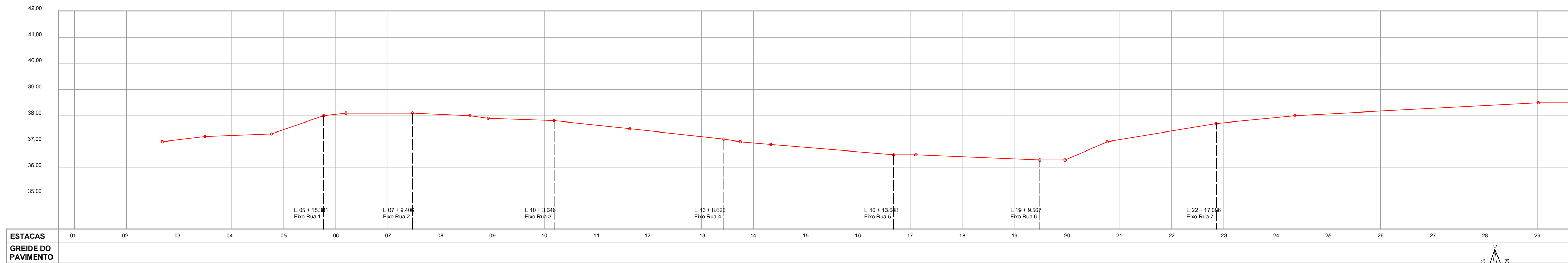
ESCALA
V: 1:100
H: 1:1000

ESCALA
V: 1:100
H: 1:1000

TOPOGRAFIA
Geocanoas

DESENHO
Carolina Becker

01 / 01



PREFEITURA MUNICIPAL DE CANOAS
SMO - DPOV

LEVANTAMENTO PLANALTIMÉTRICO, PLANTA BAIXA, PERFIL E SOLUÇÃO ADOTADA

VIA: ANDRÉ LUIZ DOS ANJOS

PROJETO:
Engº Mauricio da Rocha
Engº Marco Antonio da Silva Oliveira

ORÇAMENTO:
102848
183876

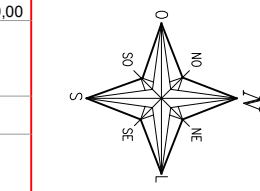
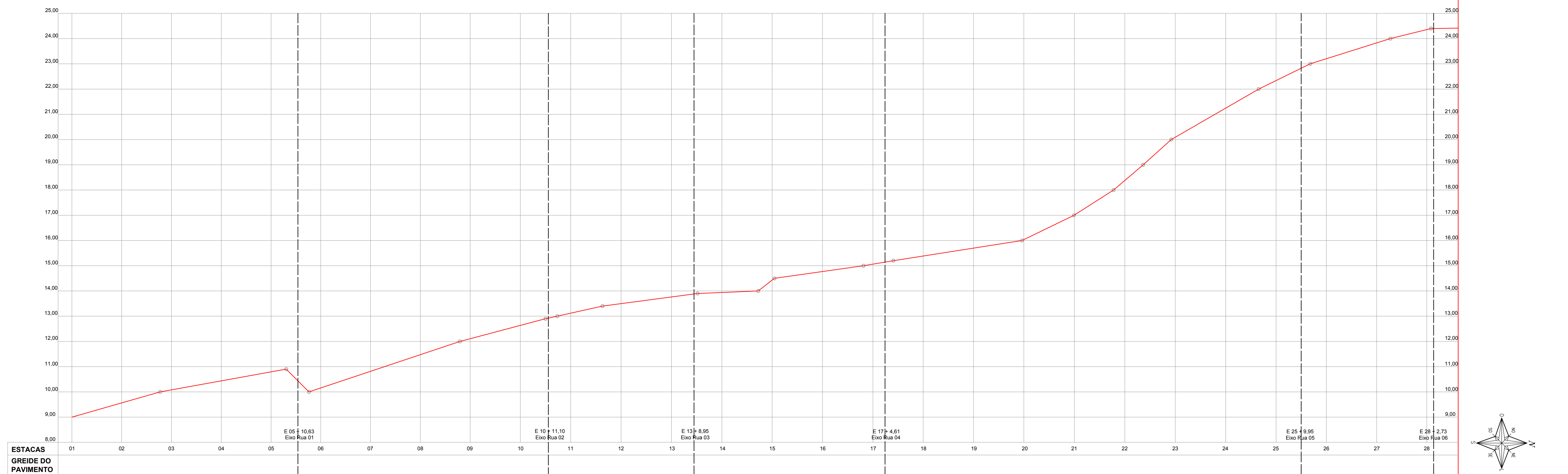
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V: 1:100
H: 1:1000

ESCALA:
V: 1:100
H: 1:1000

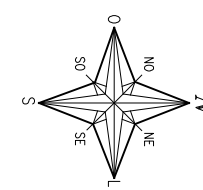
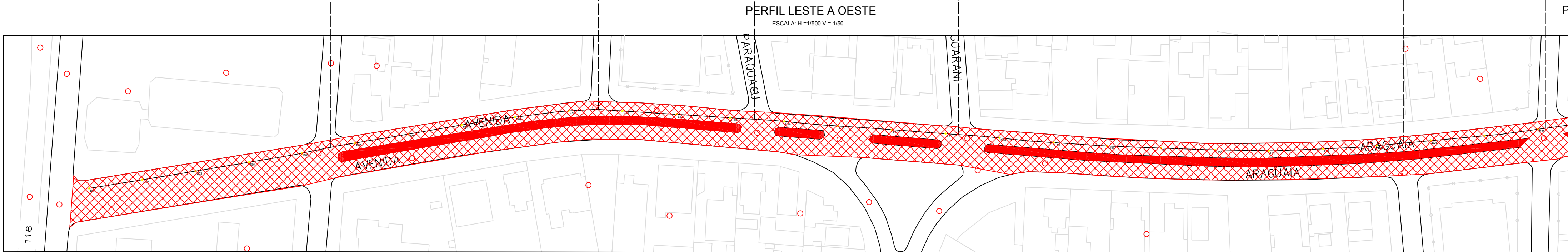
TOPOGRAFIA:
Geocanoas

DESENHO:
Maria Carvalho

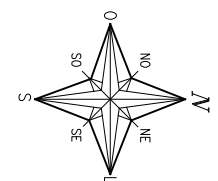
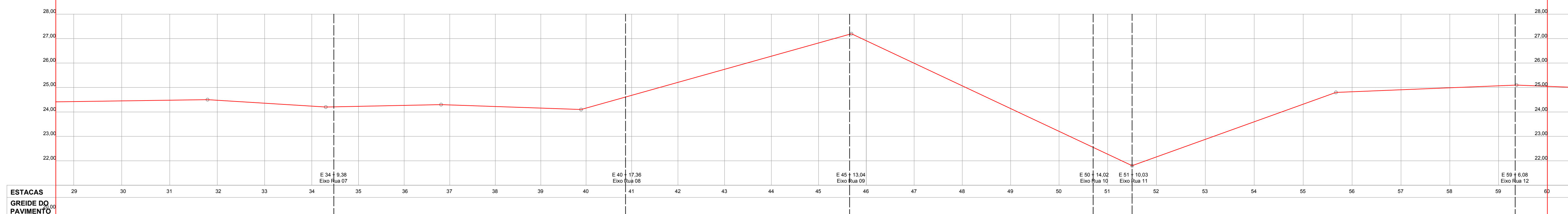
01/01



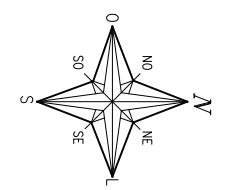
PERFIL LONGITUDINAL
ESCALA: H=1:1.000 V=1:100



PLANTA BAIXA
ESCALA: 1:1.000

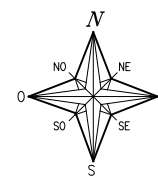
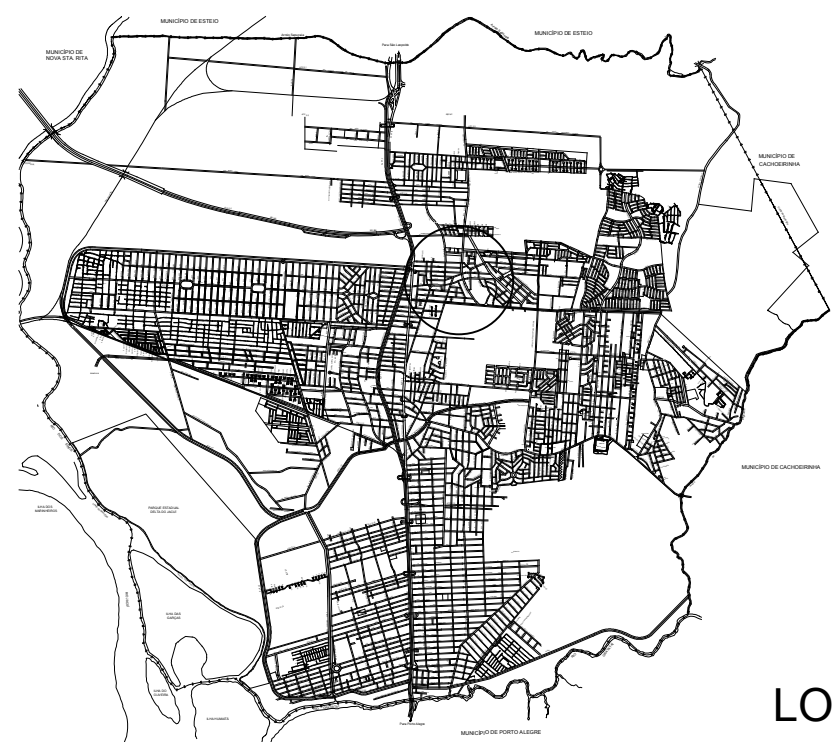


PERFIL LONGITUDINAL
ESCALA: H=1:1.000 V=1:100

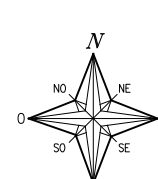
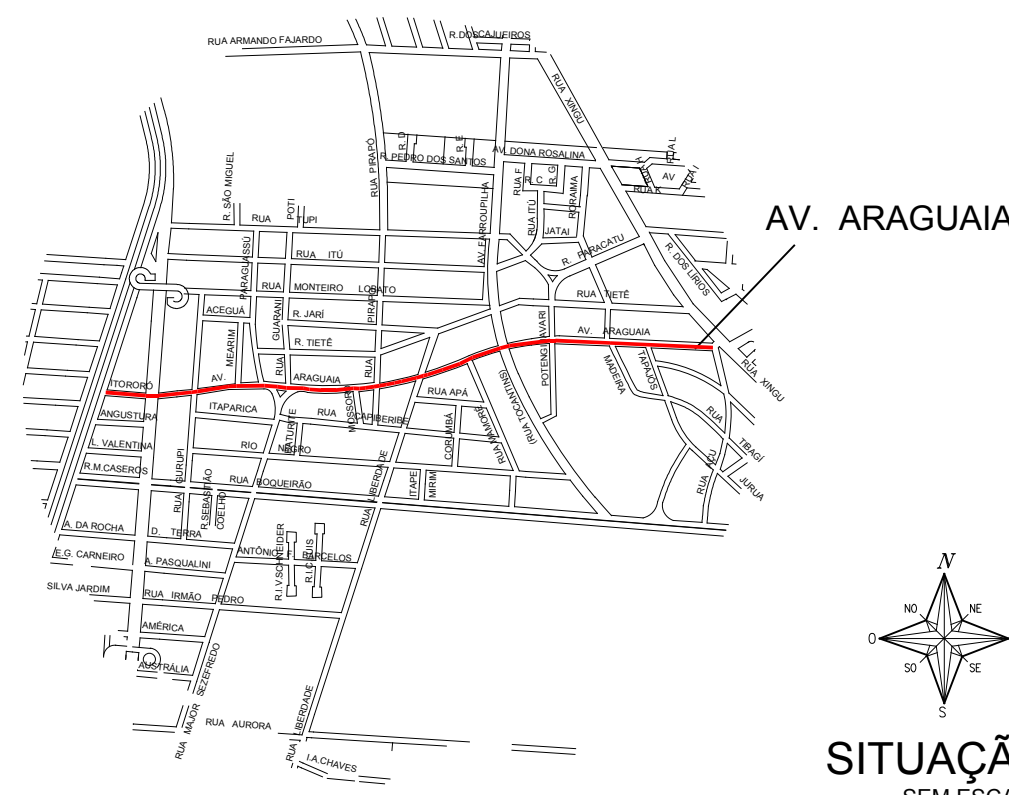


PLANTA BAIXA
ESCALA: 1:1.000

- REMEMDO SUPERFICIAL
- REMEMDO PROFUNDO
- FRESAGEM MAIS CAPA ASFÁLTICA
- CAPA ASFÁLTICA
- MICRO RESTIMENTO ASFÁLTICO



LOCALIZAÇÃO
SEM ESCALA



SITUAÇÃO
SEM ESCALA



PREFEITURA MUNICIPAL DE CANOAS
SMO - DPOV

março / 2019

LEVANTAMENTO PLANALTIMÉTRICO, PLANTA BAIXA, PERFIL E SOLUÇÃO ADOTADA

VIA: ARAGUAIA

PROJETO
Engº Mauricio da Rocha
Engº Marco Antonio da Silva Oliveira

ORÇ.
102848
183876

ESCALA
V: 1:100
H: 1:1000

ESCALA
V: 1:100
H: 1:1000

TOPOGRAFIA
Geocanoas

DESENHO
Maria Carvalho

01A
02A