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RUBRICA

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FRANCHA:
12 / 42

ESCALA:
1/250

PREFEITURA MUNICIPAL DE SENADOR POMPEU - CE.
RECUPERAÇÃO DE ESTRADA VICINAL DE SENADOR POMPEU
TRECHO: BR 226 A LOCALIDADE DE JENIPAPEIRO

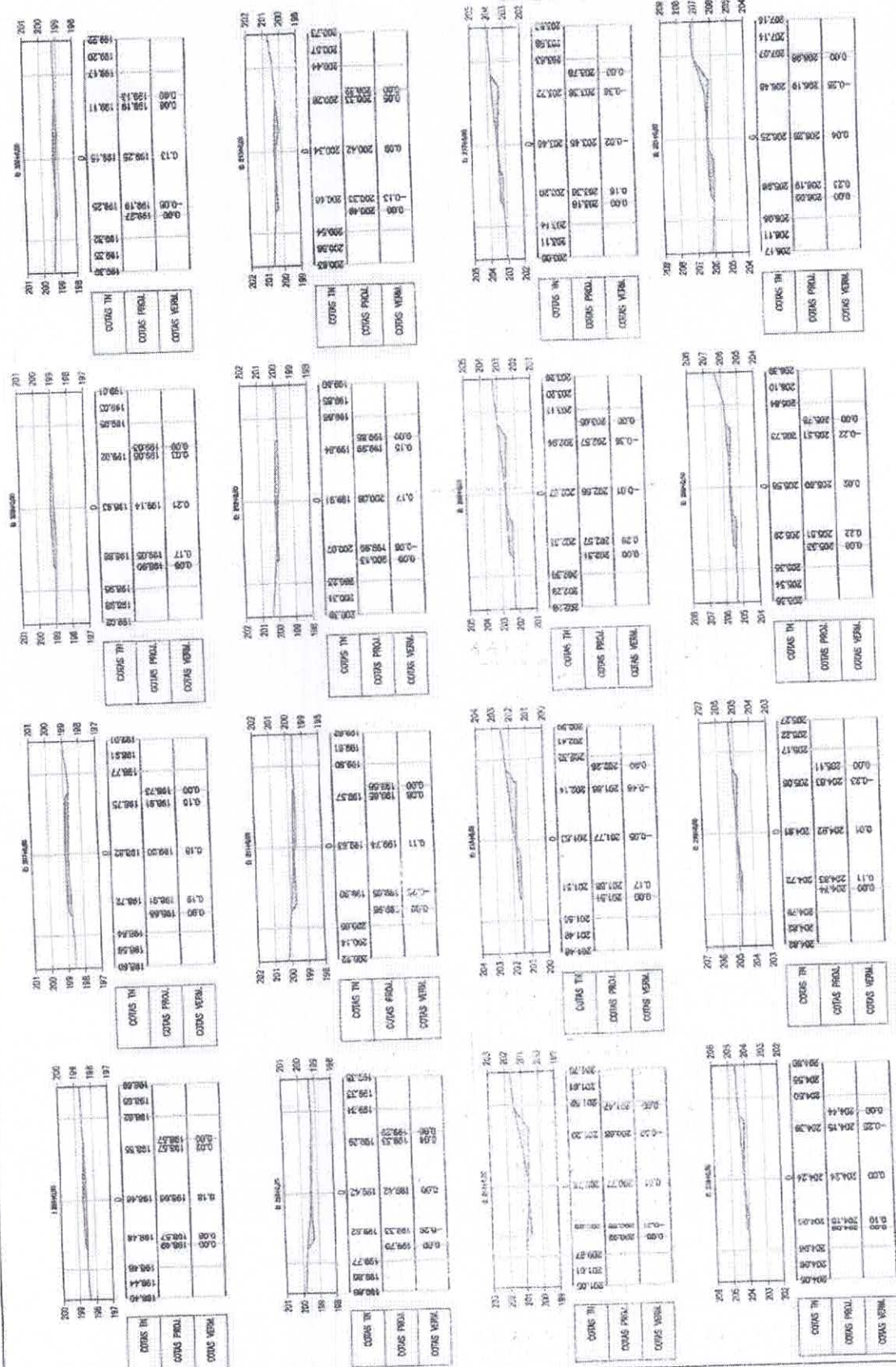
SEÇÕES TRANSVERSAIS

PROJETISTA
ARQUIVADO: 2 - PROJETO DE TERRAPLANAGEM, R.T. DWG



Maria de Leandra F. (1003)
Engenheiro Civil
12/04/2022

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ESCALA:
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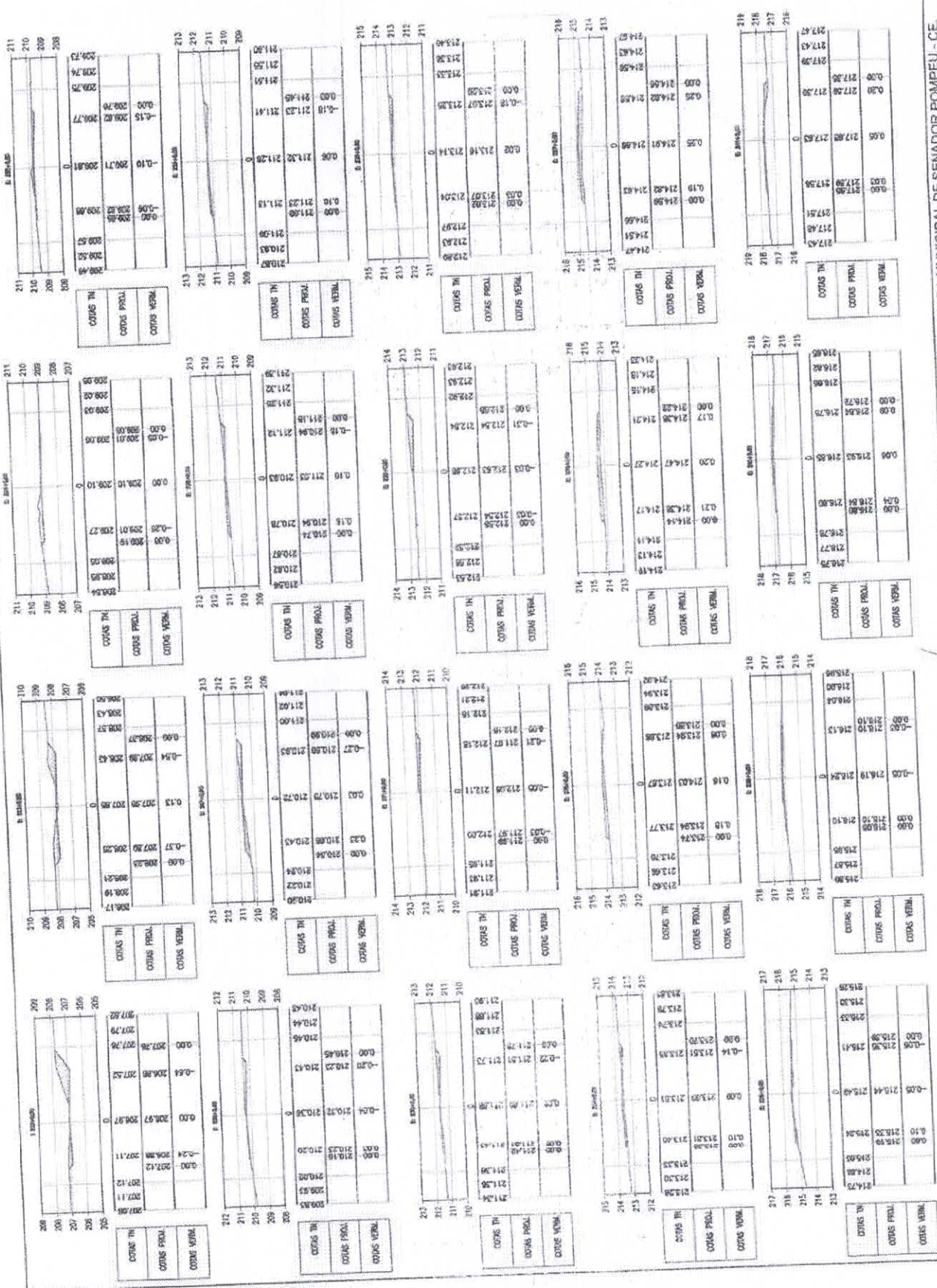
PREFEITURA MUNICIPAL DE SENADOR POMPEU - CE
RECUPERAÇÃO DE ESTRADA VICINAL DE SENADOR POMPEUCE
TRECHO: BR 226 A LOCALIDADE DE JENIPAPEIRO

SEÇÕES TRANSVERSAIS



Alcides de Lacerda F. (AUS)
Engenheiro Civil
Projeto 2012

PROJETA
ARQUIVO: 2 - PROJETO DE TERRAPLANAGEM_B1.DWG



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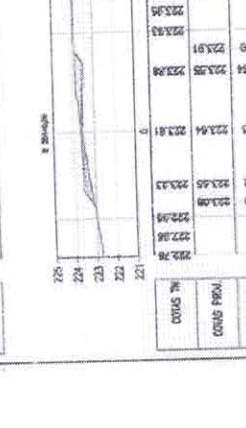
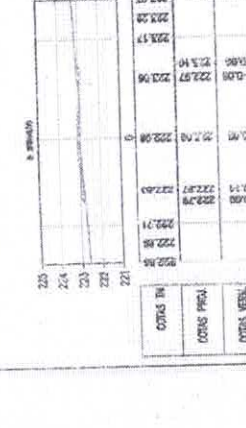
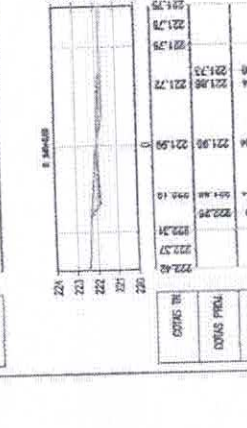
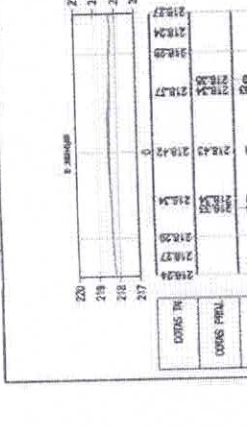
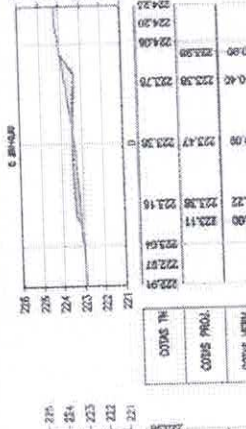
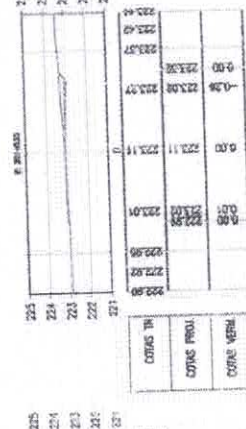
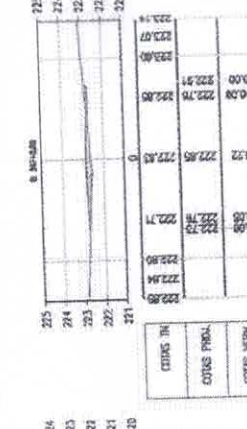
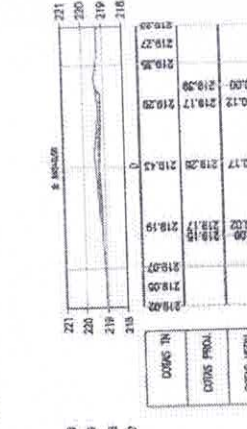
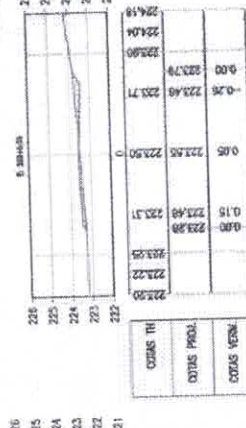
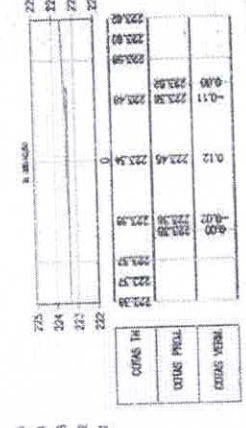
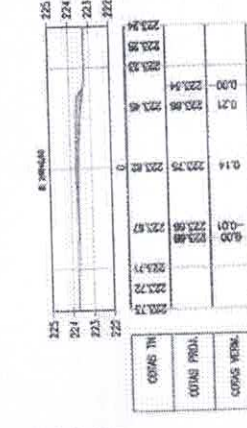
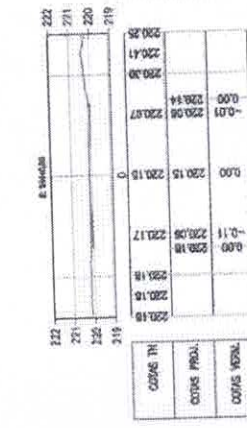
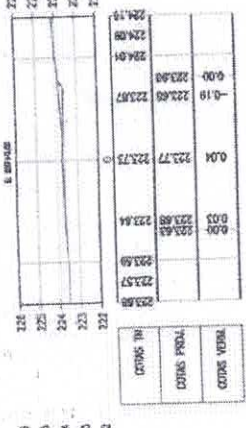
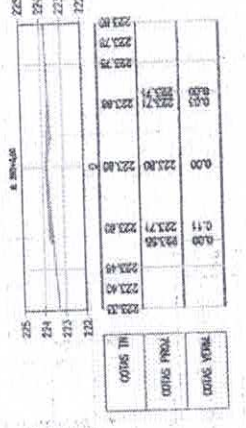
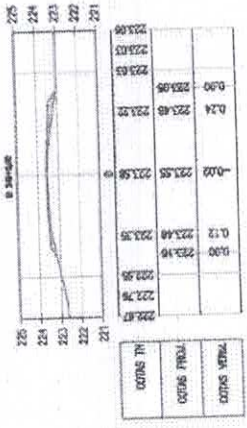
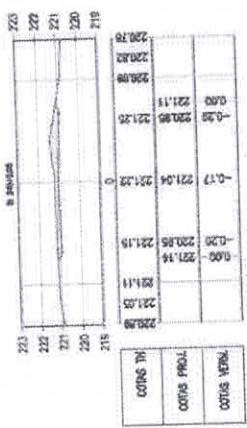
REANIMA
ESCALA
14 / 42
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PREFEITURA MUNICIPAL DE SENADOR POMPEU - CE.
RECUPERAÇÃO DE ESTRADA VICINAL DE SENADOR POMPEUCE
TRECHO: BR 226 A LOCALIDADE DE JENIPAPEIRO
SEÇÕES TRANSVERSAIS



Alcides de Leblond Filho
Engenheiro Civil
RUA JOÃO DE ALMEIDA, 715-2

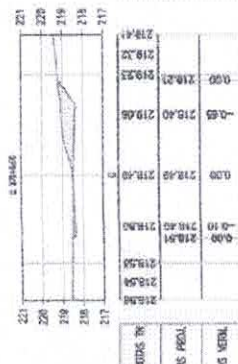
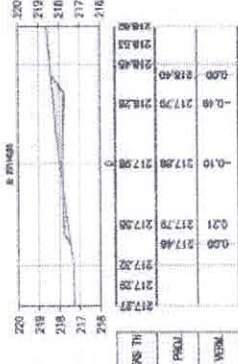
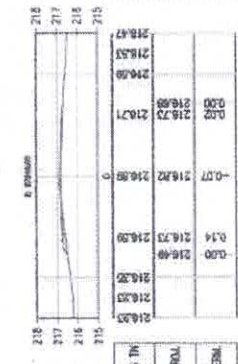
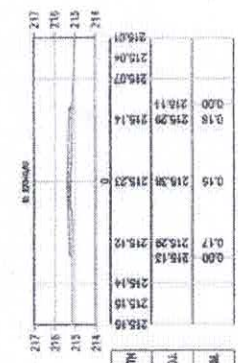
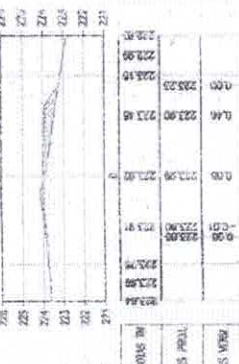
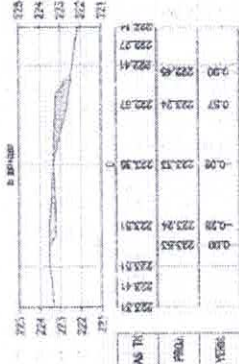
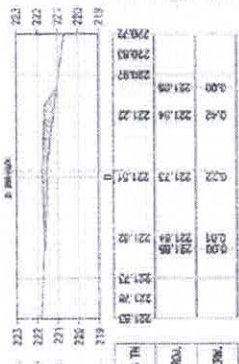
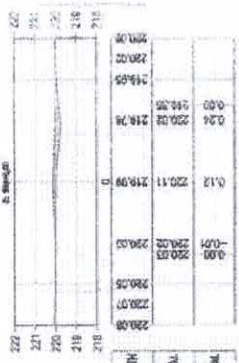
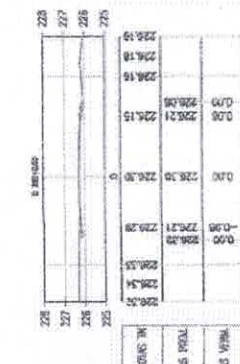
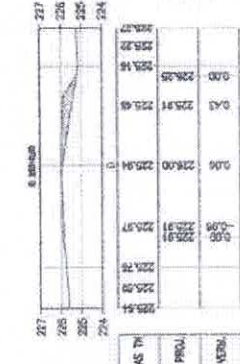
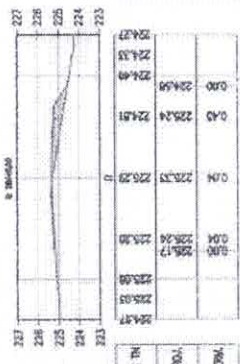
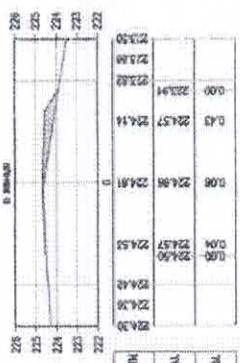
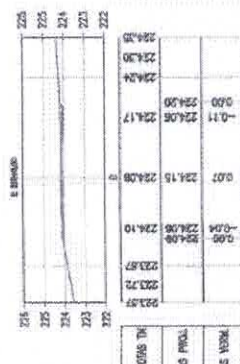
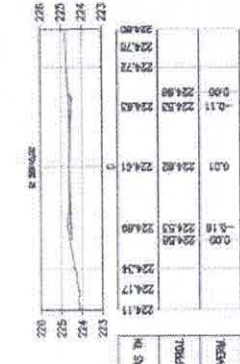
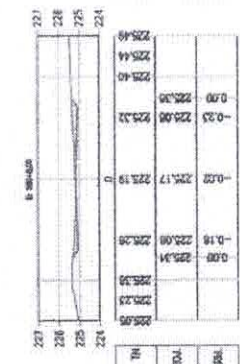
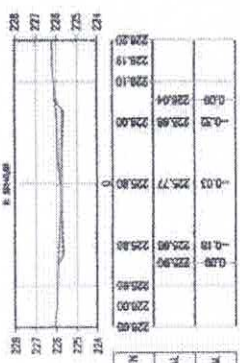
PROJETA/TA
ARQUIVO: 7 - PROJETO DE TERRAPLANAGEM_R1.DWG



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ESCALA
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PREFEITURA MUNICIPAL DE SENADOR POMPEU - CE.
RECUPERAÇÃO DE ESTRADA VICINAL DE SENADOR POMPEU
TRECHO: BR 226 A LOCALIDADE DE JENIPEIRO
SEÇÕES TRANSVERSAIS



Alexandre Leal Filho
Engenheiro Civil
RUBRICA 15/42

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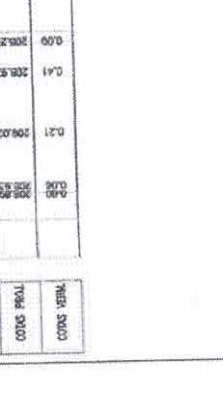
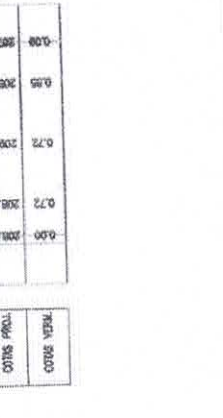
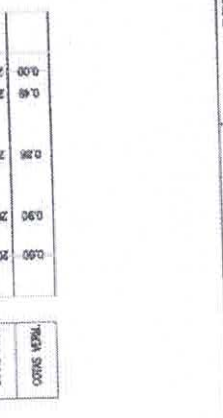
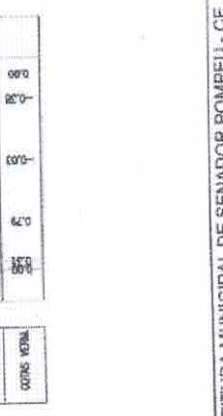
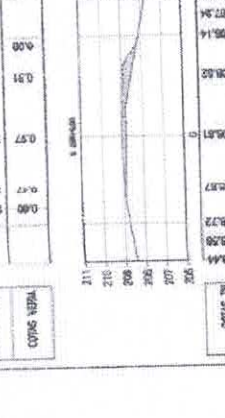
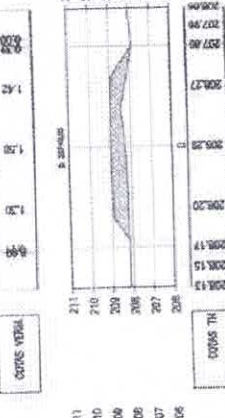
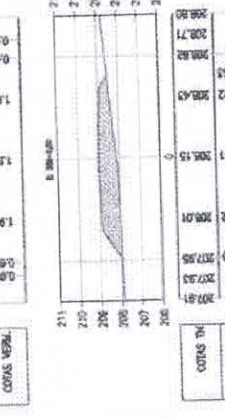
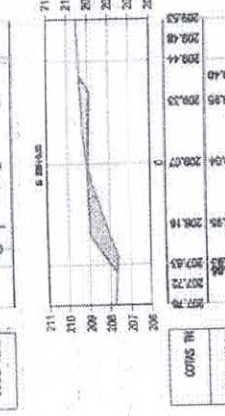
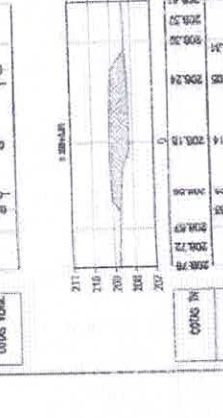
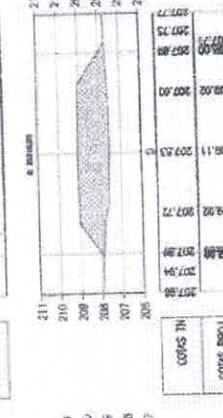
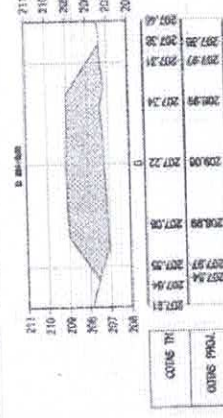
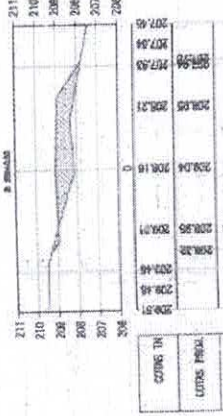
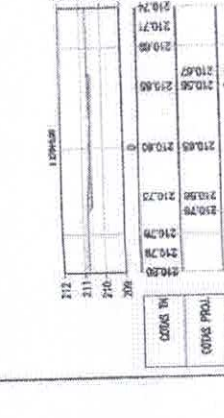
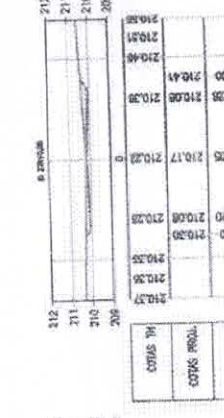
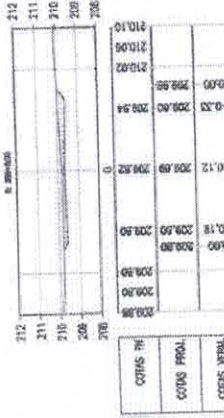
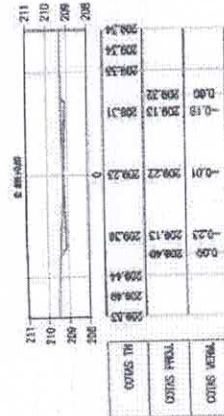
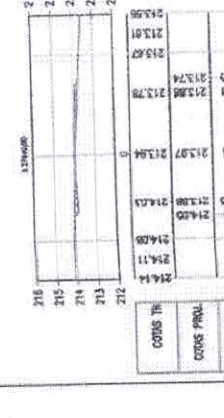
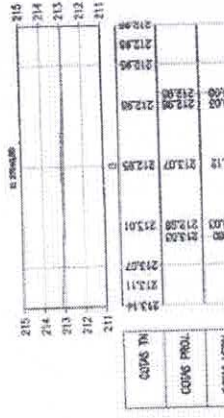
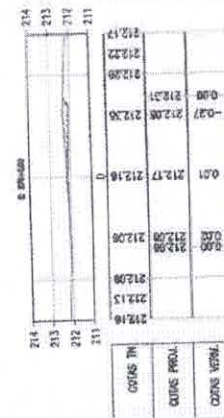
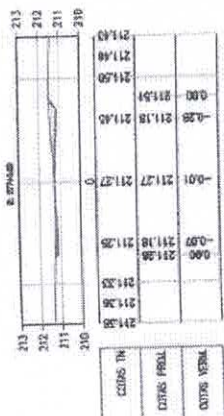
PRELIMINAR
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ESCALA:
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PREFEITURA MUNICIPAL DE SENADOR POMPEU - CE.
RECUPERAÇÃO DE ESTRADA VICINAL DE SENADOR POMPEU/CE
TRECHO: BR 226 A LOCALIDADE DE JENIPAPEIRO
SEÇÕES TRANSVERSAIS



Projeto de Engenharia Civil
Eng.º Leonardo Fr. Luos
C.R.C. 014.745/2

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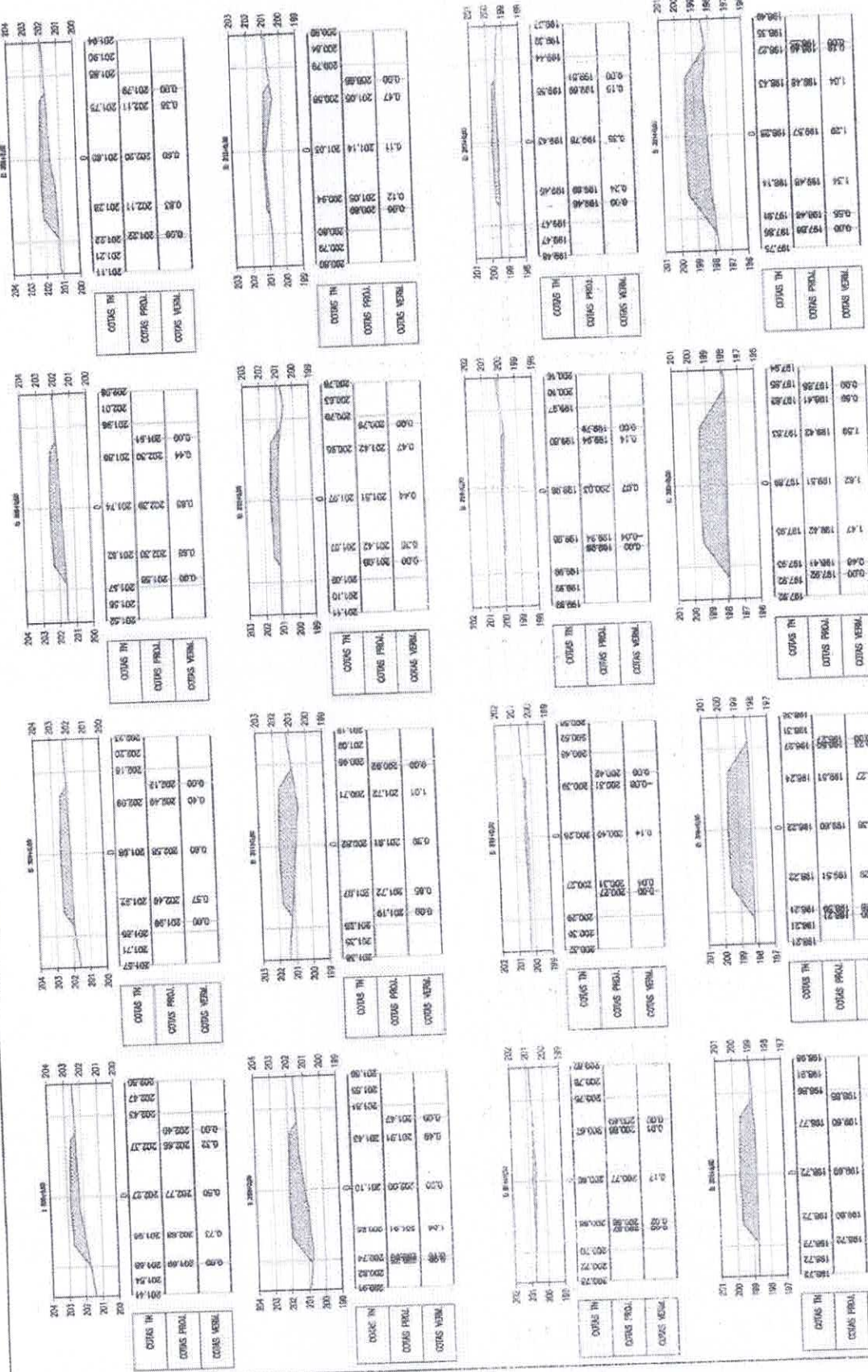
PREFEITURA MUNICIPAL DE SENADOR POMPEU - CE.
RECUPERAÇÃO DE ESTRADA VICINAL DE SENADOR POMPEUCE
TRECHO: BR 226 A LOCALIDADE DE JENIPAPEIRO



SEÇÕES TRANSVERSAIS

Alzaia de Leão e Filhos
Engenheiro Civil
EPA 047792-0

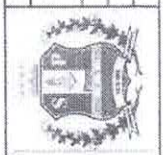
PROJETO DE TERRAPLANAGEM PLUVIAL



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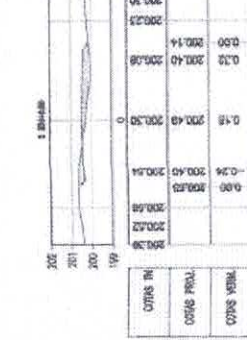
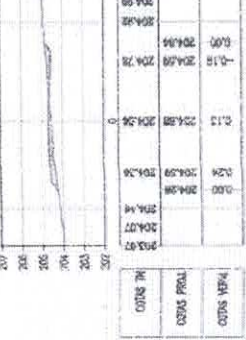
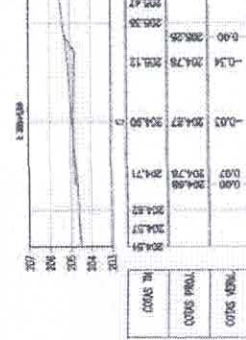
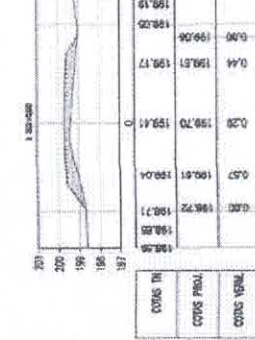
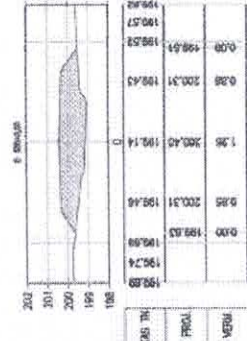
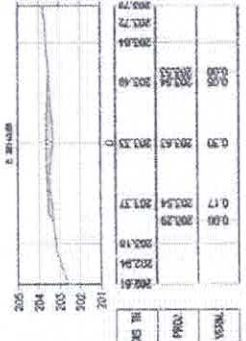
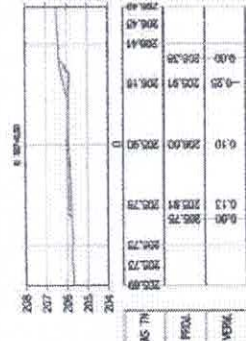
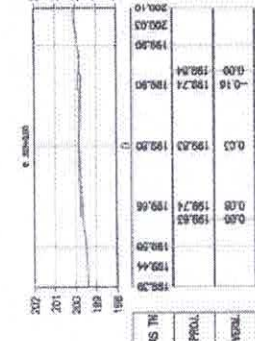
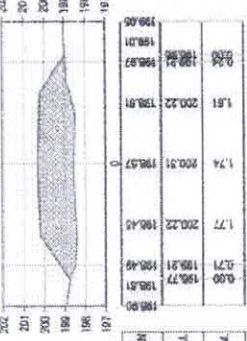
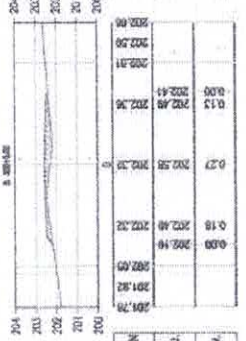
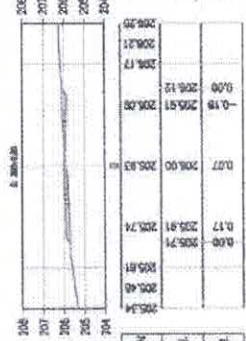
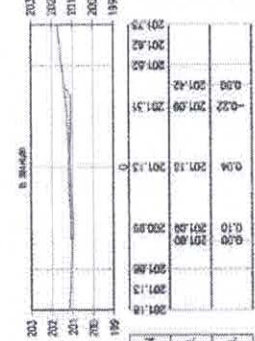
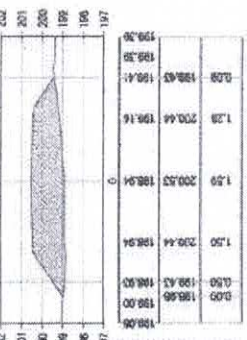
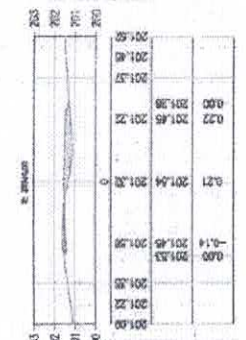
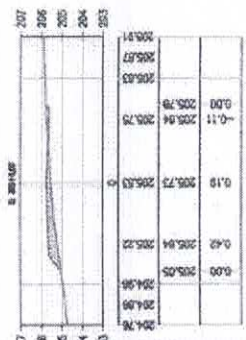
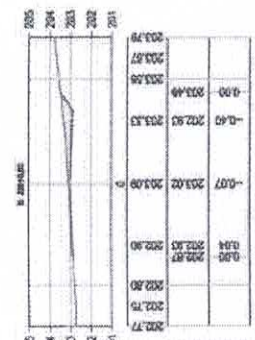
RAMCHA
19/42
ESCALA:
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PREFEITURA MUNICIPAL DE SENADOR POMPEU - CE.
RECUPERAÇÃO DE ESTRADA VICINAL DE SENADOR POMPEU
TRECHO: BR 226 A LOCALIDADE DE JENIPAPEIRO
SEÇÕES TRANSVERSAIS

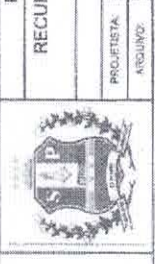


Alexa de Leão Fr. Luoso
Engenheiro Civil
R. ... 17.488-9

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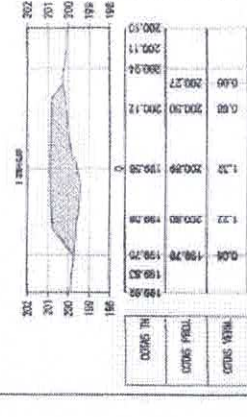
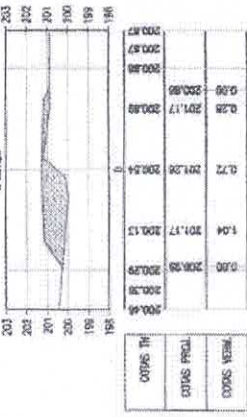
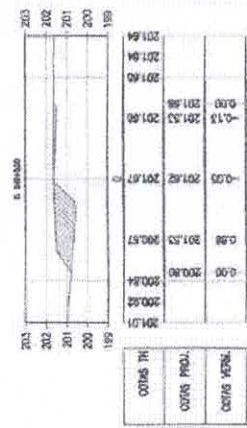
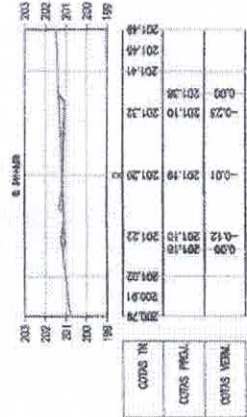
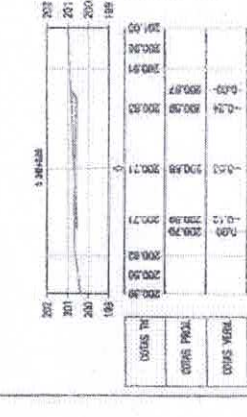
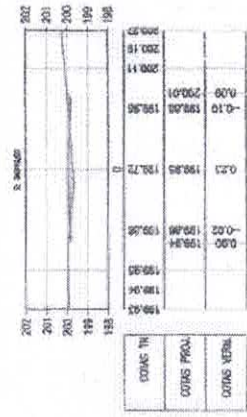
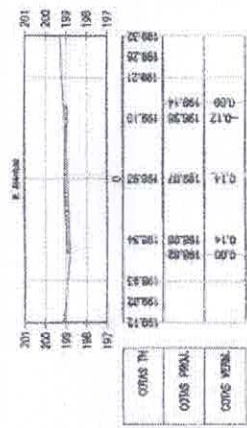
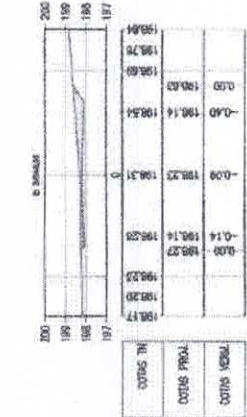
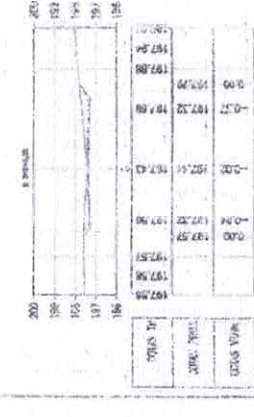
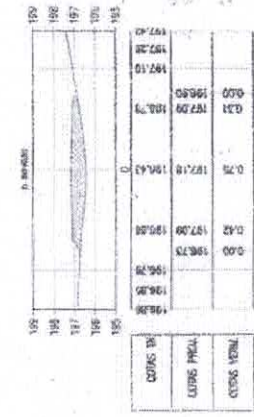
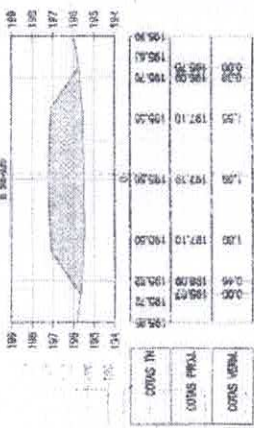
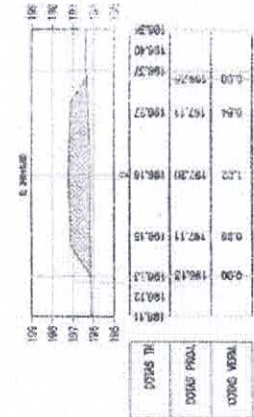
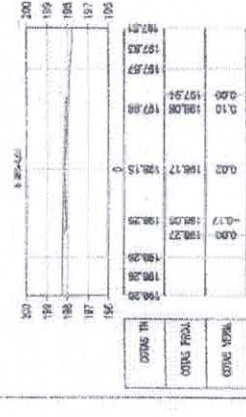
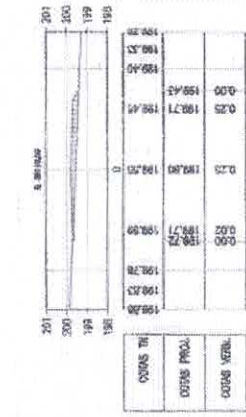
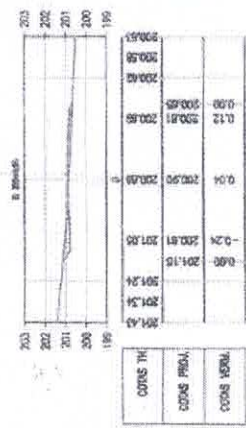
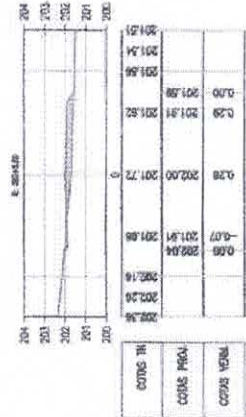


PREFEITURA MUNICIPAL DE SENADOR POMPEU - CE
RECUPERAÇÃO DE ESTRADA VICINAL DE SENADOR POMPEUCE
TRECHO: BR 226 A LOCALIDADE DE JENIPAPEIRO



SEÇÕES TRANSVERSAIS
PROJENISTA:
ARQUITO: J. PROJETO DE TERRAPLANAGEM, LTDA

Assinatura: *[Handwritten Signature]*
Macka die Leonardo Fr. Lopes
Engenheiro Civil
C.R.C. 01/17002



421
m

PRANCHAS

22 / 42

ESCALA:

1/250

PREFEITURA MUNICIPAL DE SENADOR POMPEU - CE.
RECUPERAÇÃO DE ESTRADA VICINAL DE SENADOR POMPEUCE
TRECHO: BR 226 A LOCALIDADE DE JENIPAPEIRO

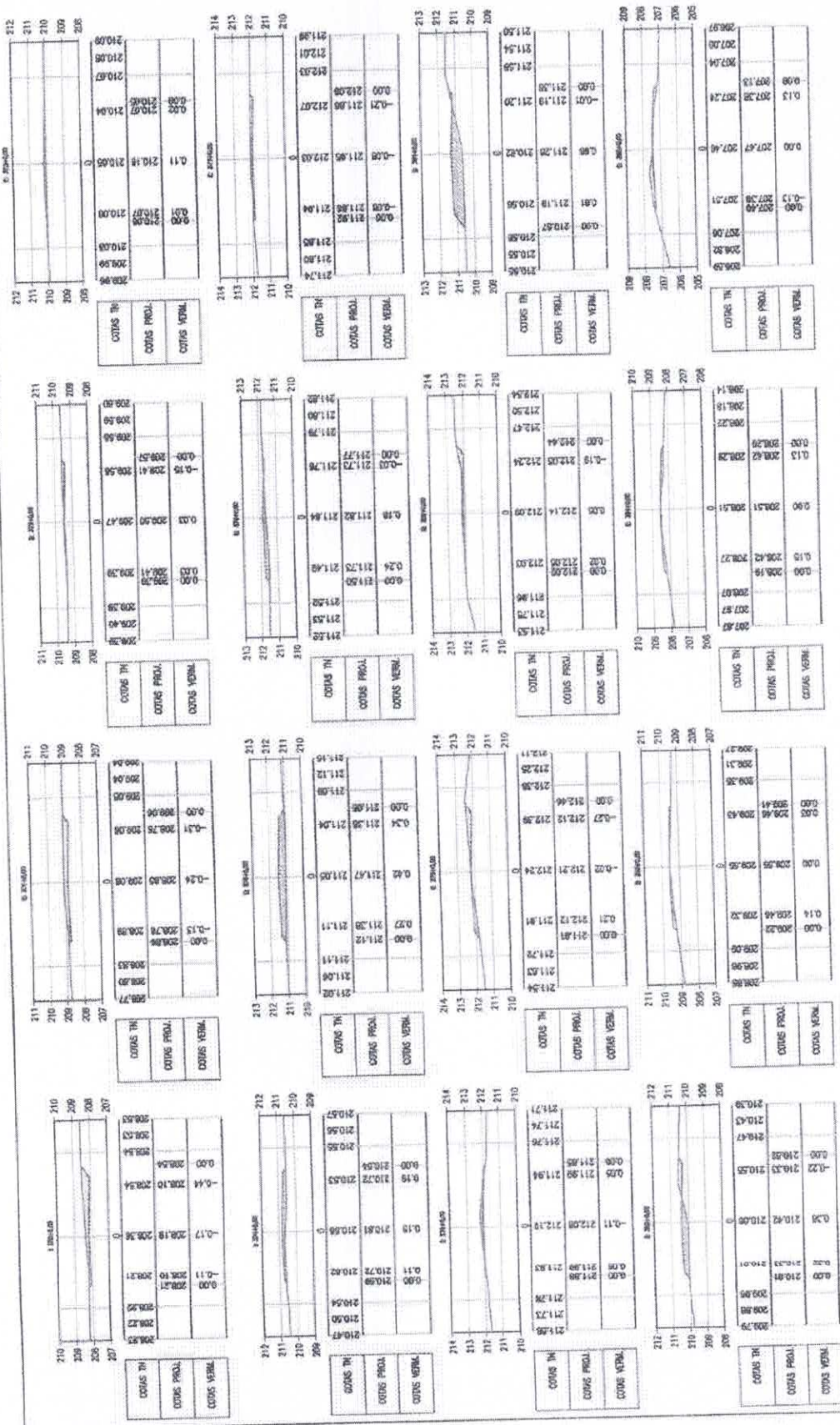


Projeto de Terraplanagem em DTM

Projetoista: _____
Arquiteto: _____

Engenheiro Civil
E.O. 06.07.1952-2

SEÇÕES TRANSVERSAIS



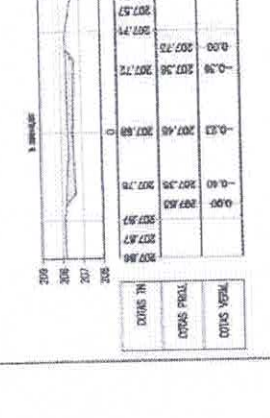
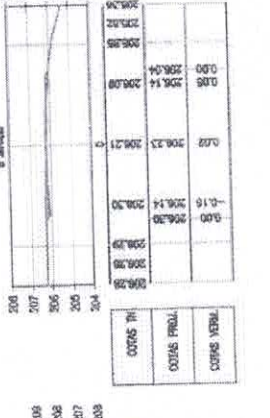
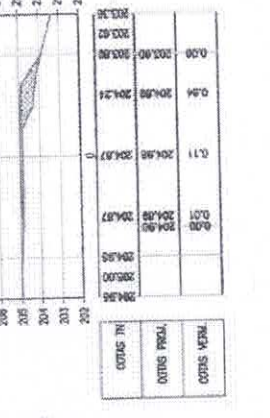
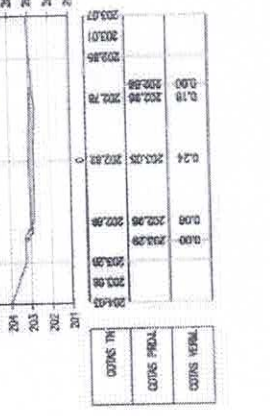
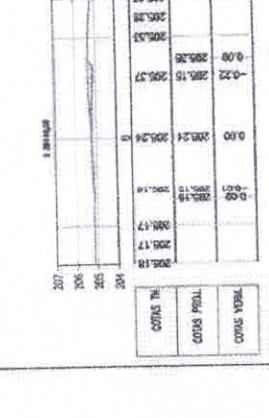
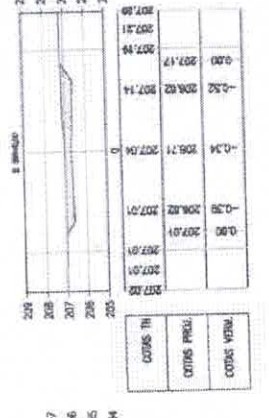
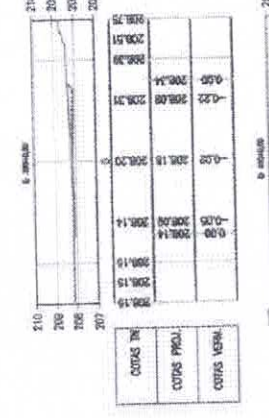
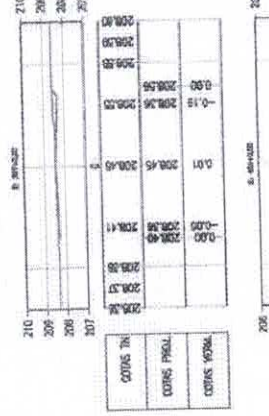
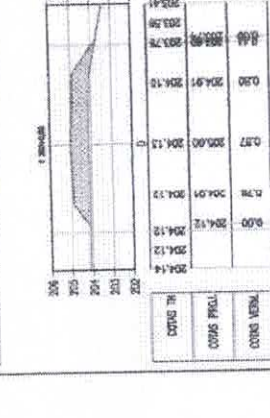
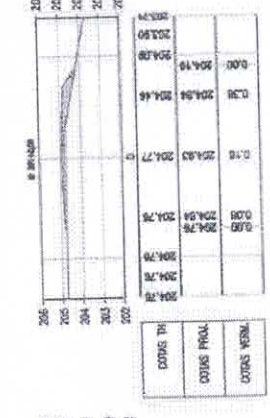
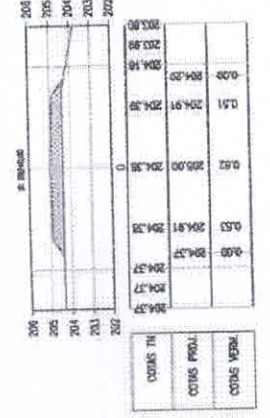
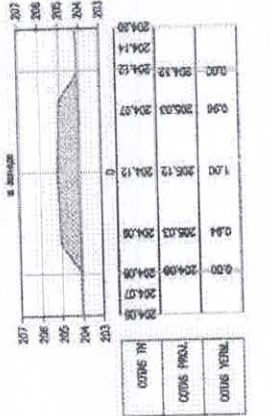
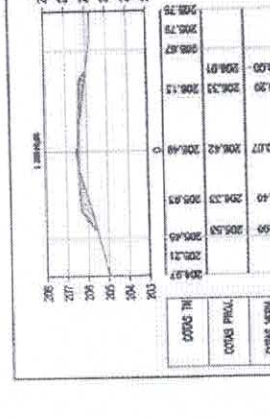
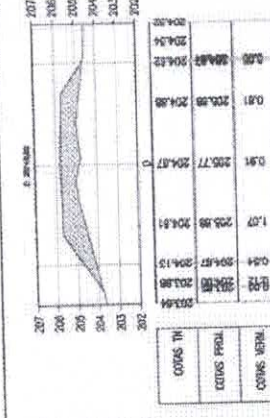
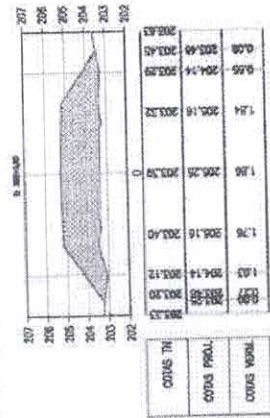
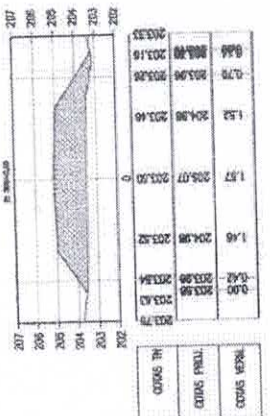
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PREFEITURA MUNICIPAL DE SENADOR POMPEU - CE
RECUPERAÇÃO DE ESTRADA VICINAL DE SENADOR POMPEU/CE
TRECHO: BR 226 A LOCALIDADE DE JENIPAPEIRO
SEÇÕES TRANSVERSAIS



Alcides de Lima Fr. (tutor)
Engenheiro Civil
RUE 101/152

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PREFEITURA MUNICIPAL DE SENADOR POMPEU - CE.
RECUPERAÇÃO DE ESTRADA VICINAL DE SENADOR POMPEUCE
TRECHO: BR 226 A LOCALIDADE DE JENIPEPEIRO

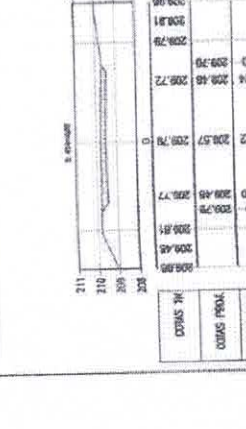
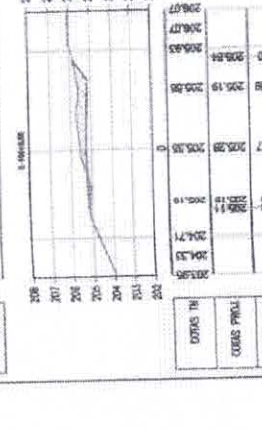
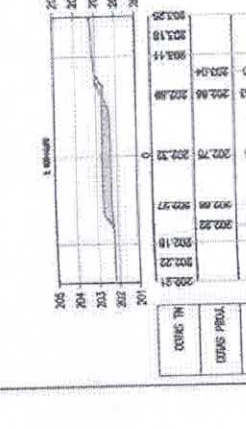
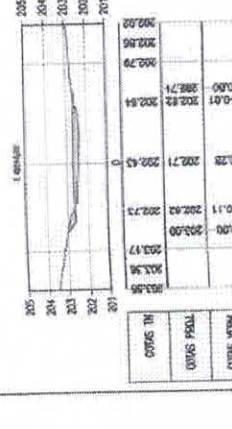
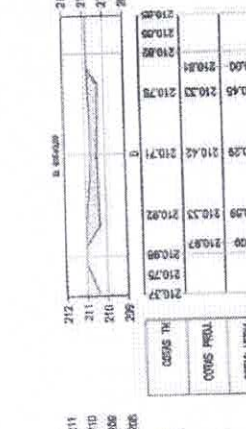
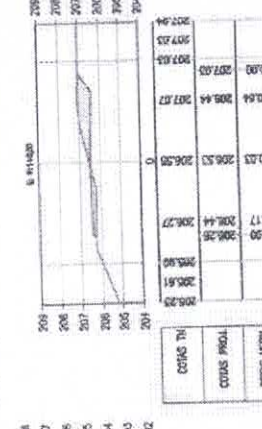
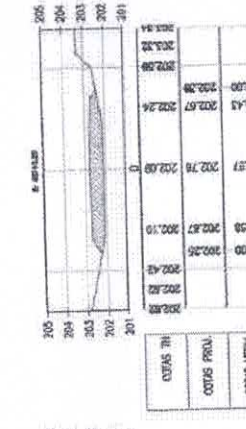
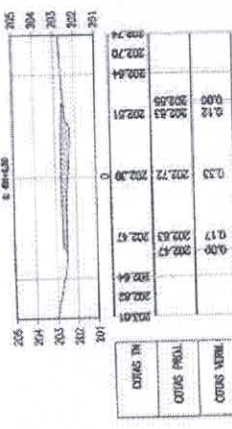
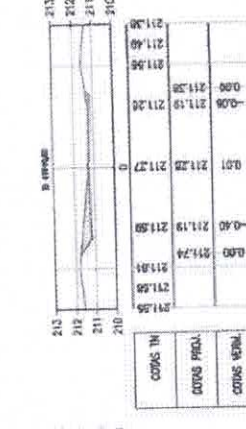
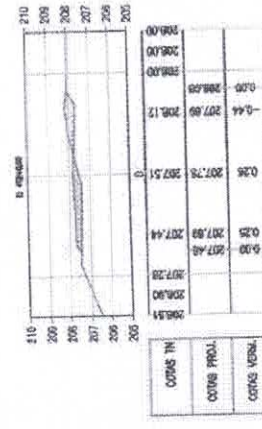
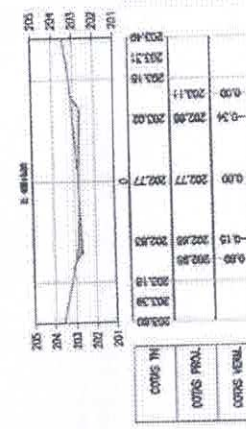
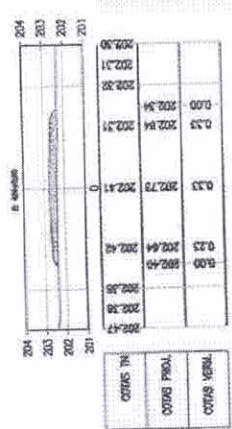
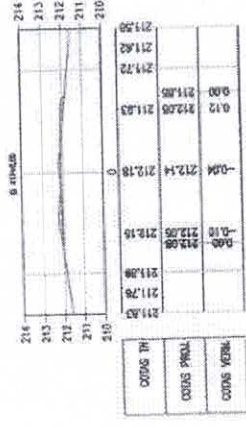
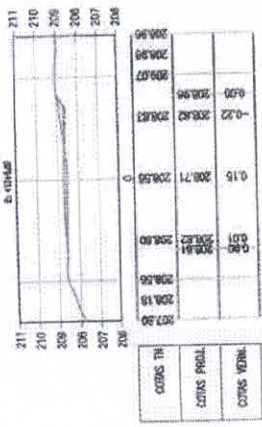
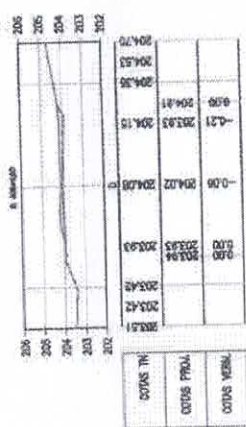
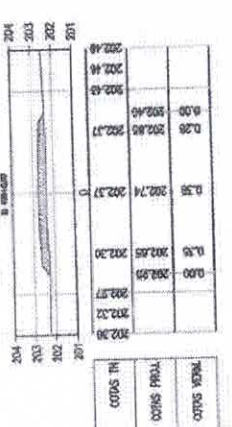
SEÇÕES TRANSVERSAIS



Alcides de Lima Fr. Luosy
Engenheiro Civil
E.O. 001.7452

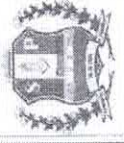
PROJETA: 7 - PROJETO DE TERRAPLENAGEM PLD/03

ARQUIVO: 2



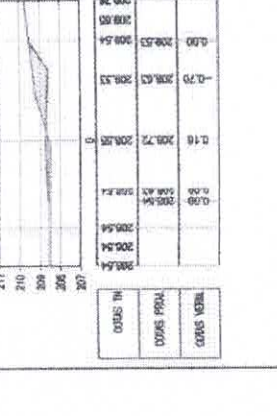
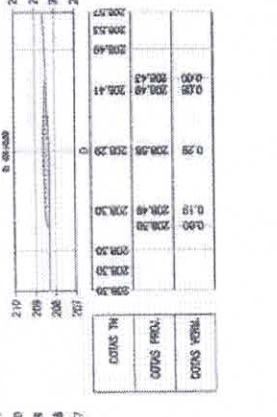
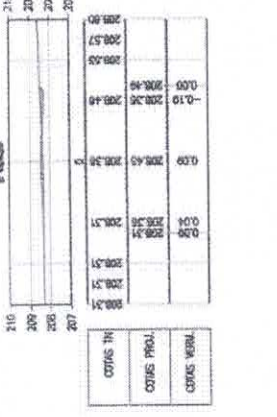
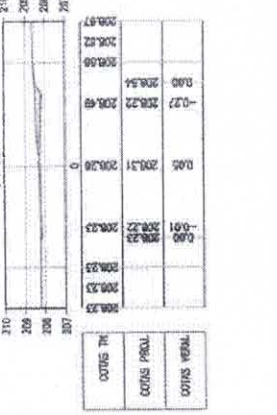
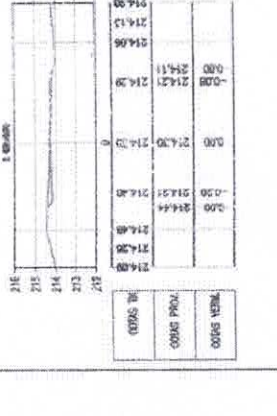
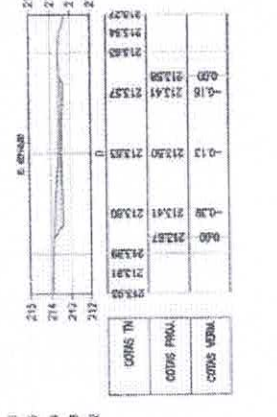
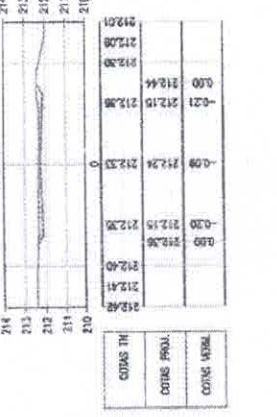
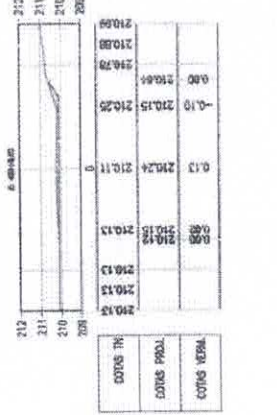
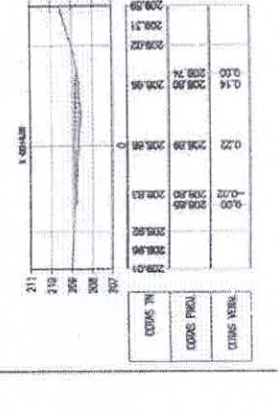
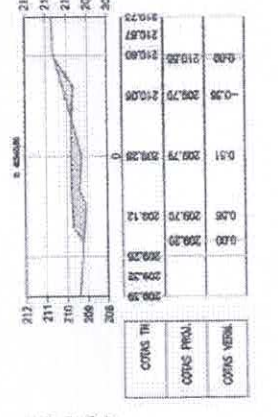
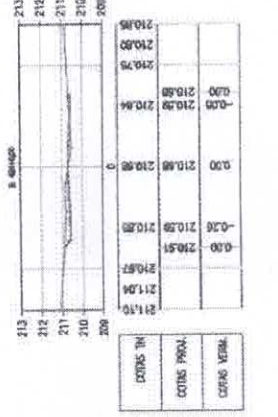
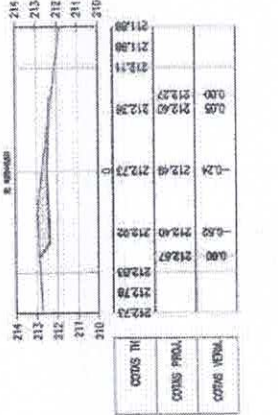
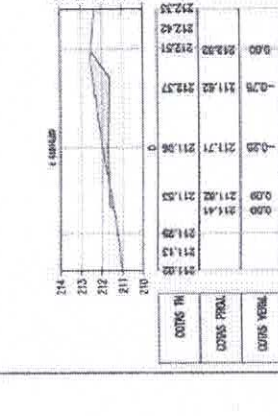
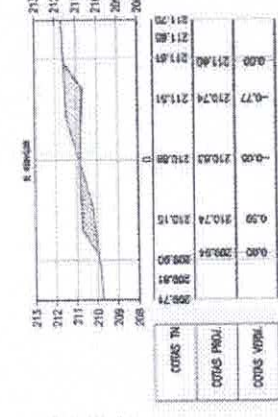
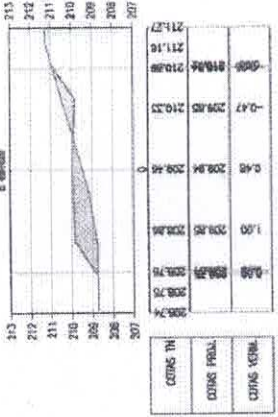
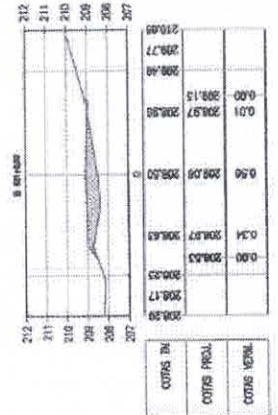
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PREFEITURA MUNICIPAL DE SENADOR POMPEU - CE.
RECUPERAÇÃO DE ESTRADA VICINAL DE SENADOR POMPEU/CE
TRECHO: BR 226 A LOCALIDADE DE JENIPEIRO
SEÇÕES TRANSVERSAIS



Alvaro de Lencastre (Luís)
Engenheiro Civil
F.º 20.000.000-0

PROJETA: -
ARQUIVO: 2 - PROJETO DE TERRAPLENAGEM.DWG



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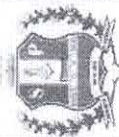
RUBRICA

PLANILHA
26 / 42

ESCALA

1/250

PREFEITURA MUNICIPAL DE SENADOR POMPEU - CE.
RECUPERAÇÃO DE ESTRADA VICINAL DE SENADOR POMPEUCE
TRECHO: BR 226 A LOCALIDADE DE JENIPAPEIRO
SEÇÕES TRANSVERSAIS

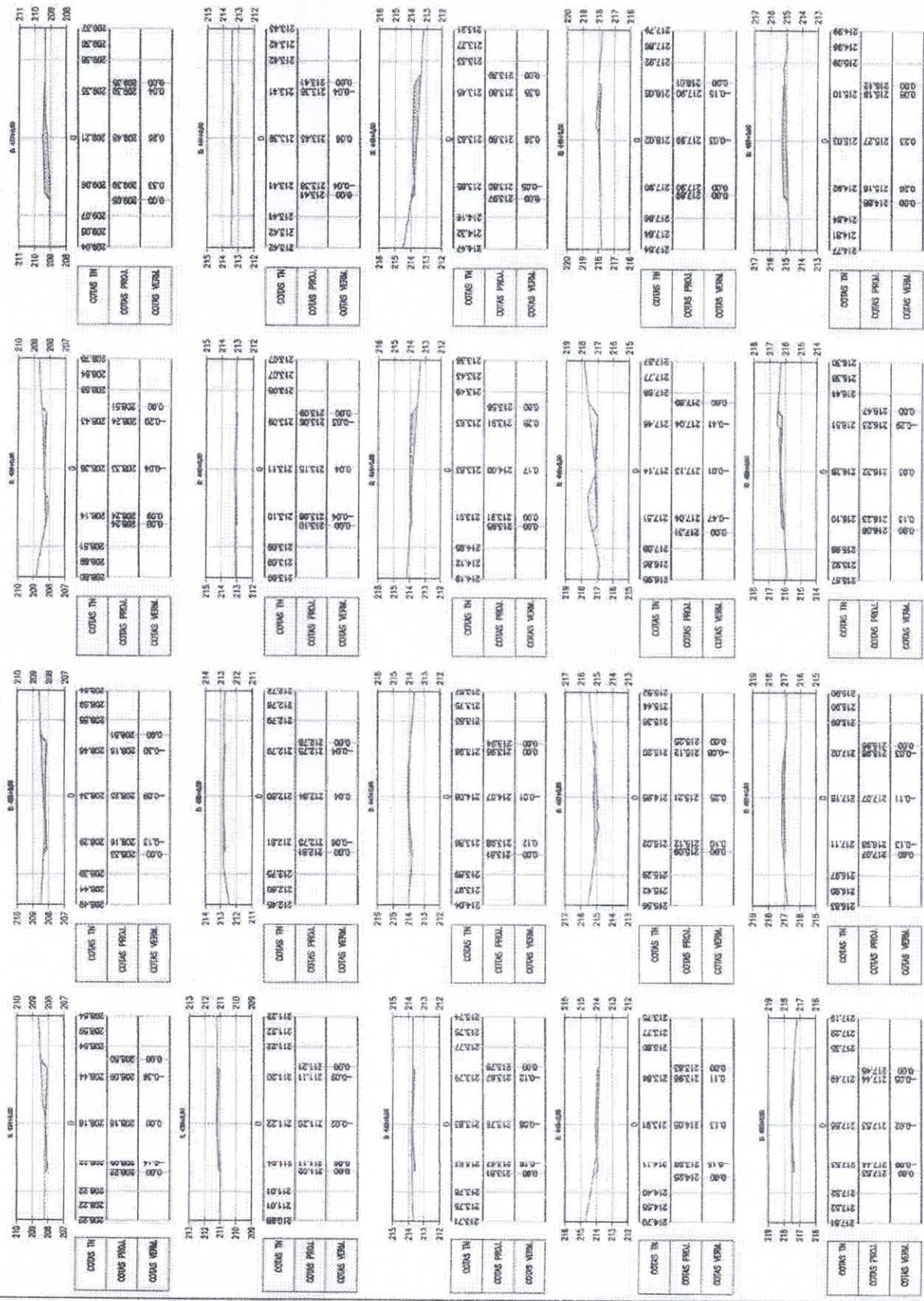


Mauro de Leão Fr. Inácio
ENGENHEIRO CIVIL
CRP 01/7132-2

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PROJETADE
ANQUILIS

2 - PROJETO DE TERRAPLANAGEM (T.P.V.G)



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RUBRICA _____

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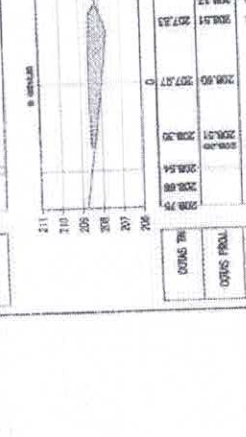
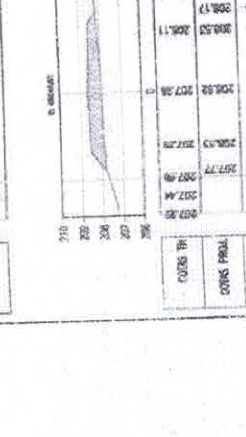
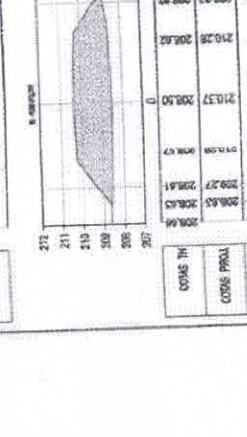
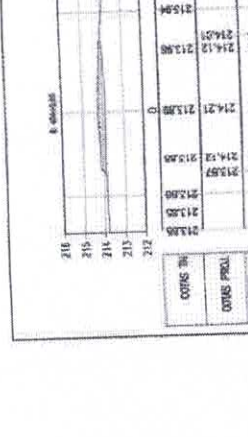
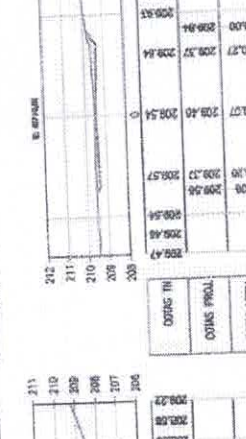
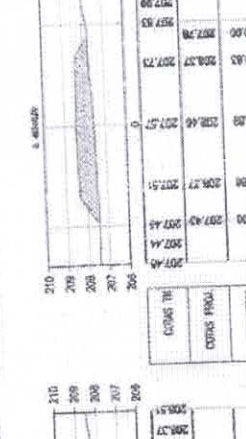
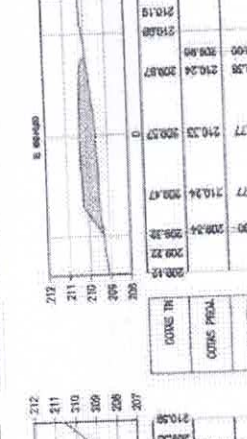
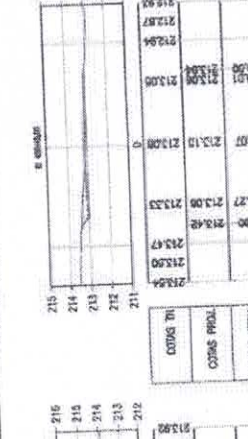
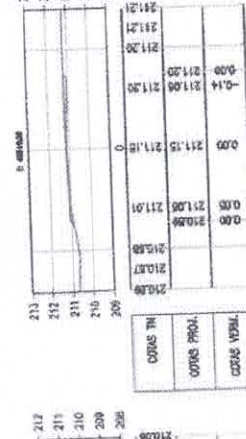
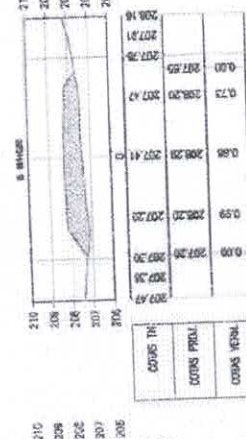
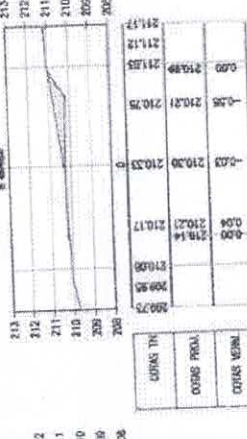
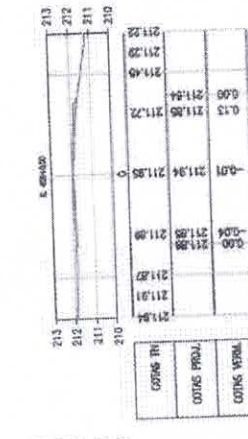
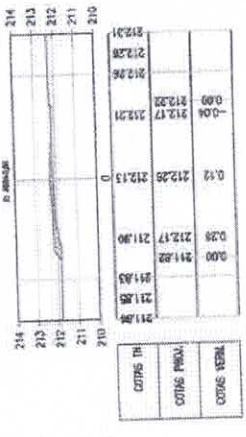
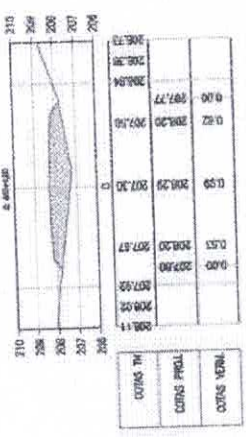
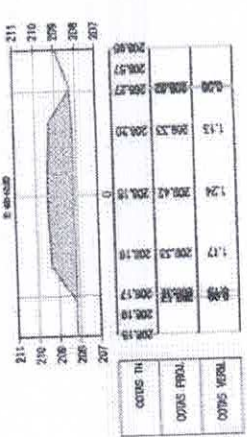
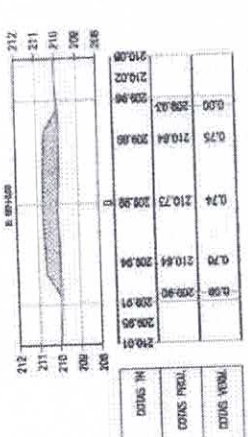
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ESCALA
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PREFEITURA MUNICIPAL DE SENADOR POMPEU - CE.
RECUPERAÇÃO DE ESTRADA VICINAL DE SENADOR POMPEU/CE
TRECHO: BR 226 A LOCALIDADE DE JENIPEIRO
SEÇÕES TRANSVERSAIS



Arquiteta de Engenharia
Eliane de Lencastre Fr. Jucosó
E-mail: eliane@projecao.com.br
CPF: 039.360.725-2

PROJETISTA
ARQUIVADO



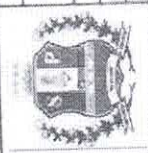
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RUBRICA

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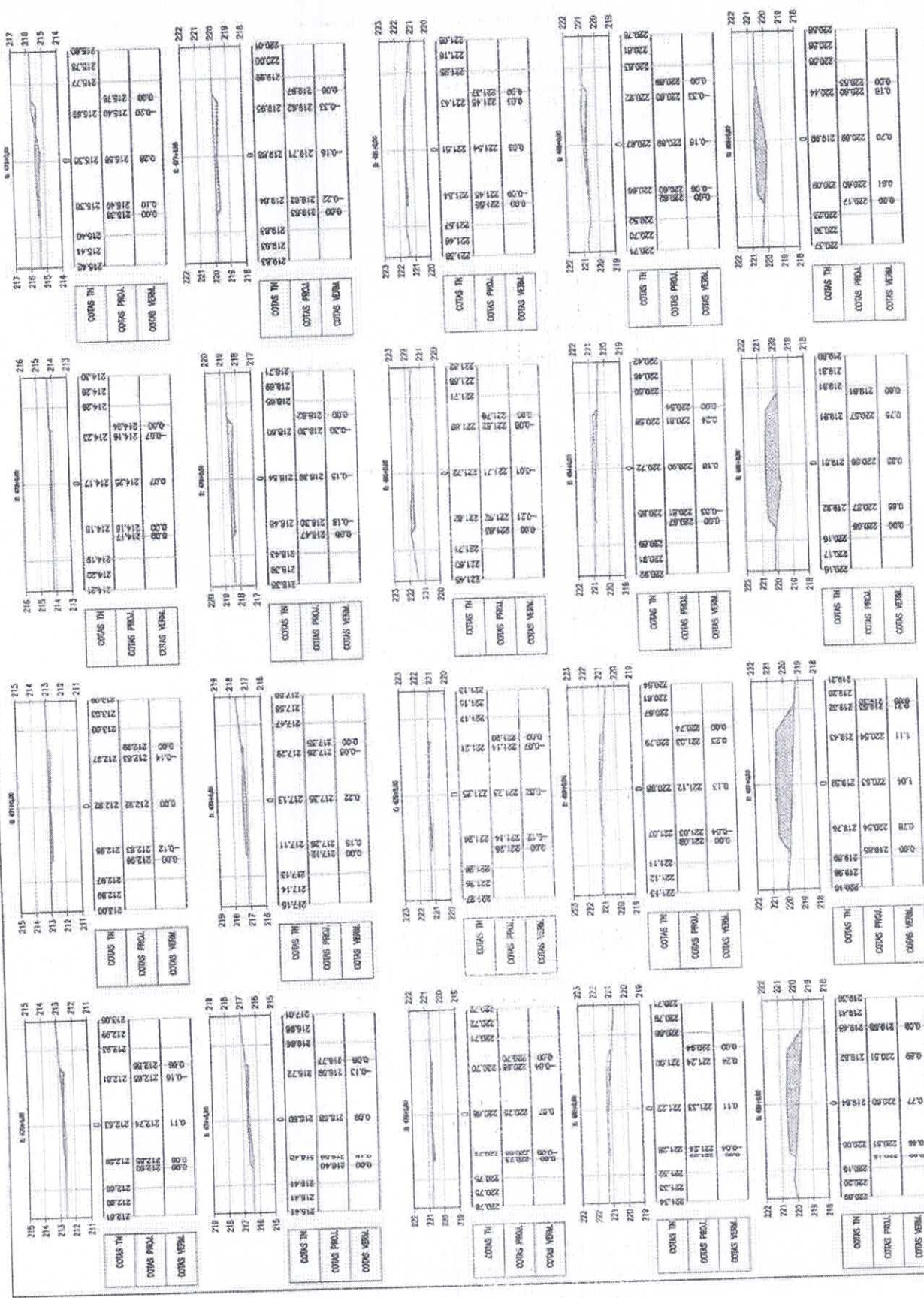
PRIMEIRA
28 / 42
ESCALA:
1/250

PREFEITURA MUNICIPAL DE SENADOR POMPEU - CE.
RECUPERAÇÃO DE ESTRADA VICINAL DE SENADOR POMPEUCE
TRECHO: BR. 226 A LOCALIDADE DE JENIPAPEIRO
SEÇÕES TRANSVERSAIS

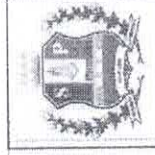


Alcides de Lacerda Fr. Lucas
Engenheiro Civil
CRP 10.715/2

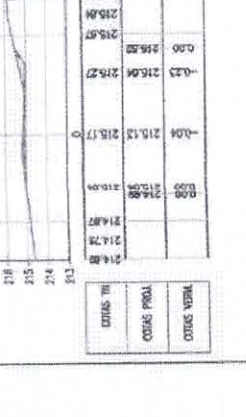
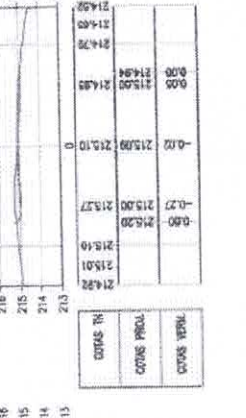
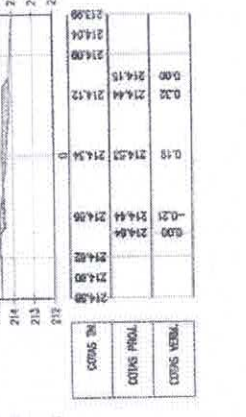
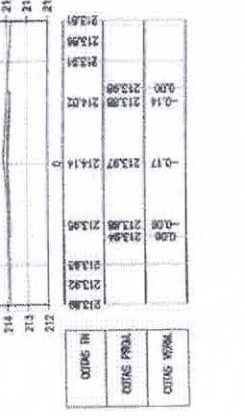
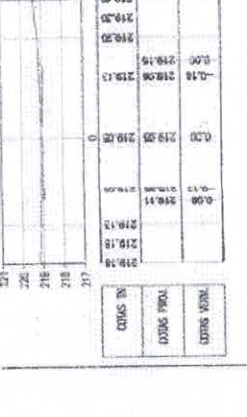
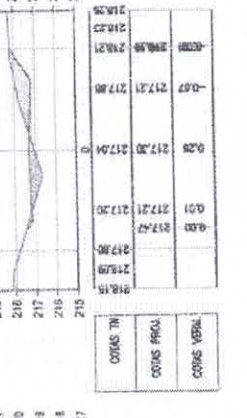
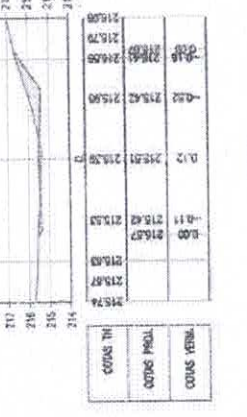
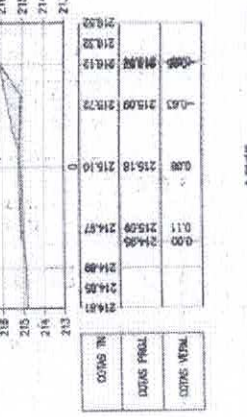
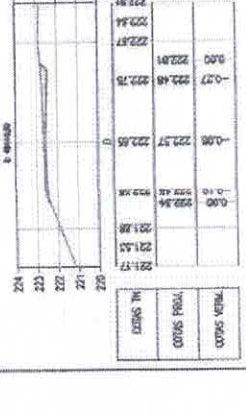
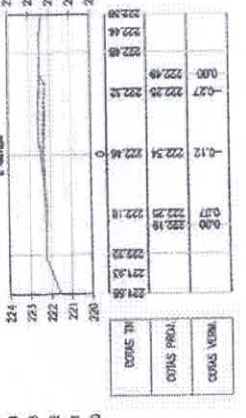
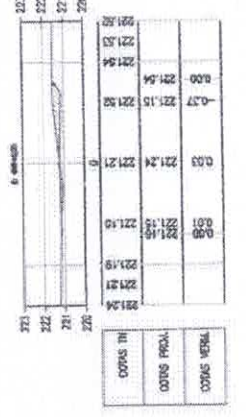
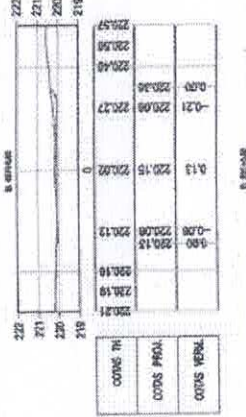
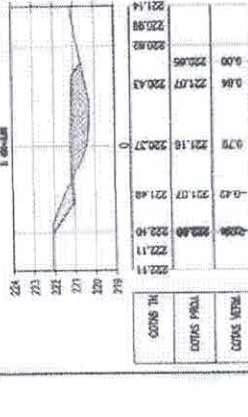
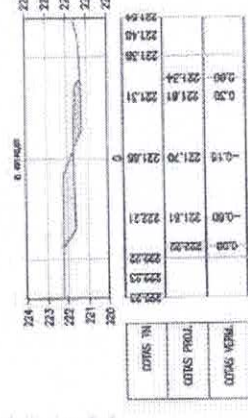
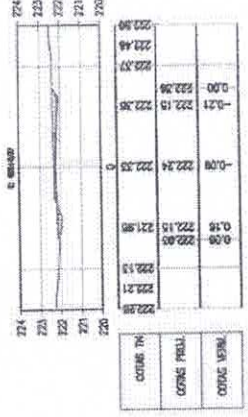
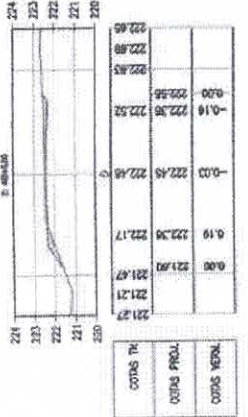
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 SEÇÕES TRANSVERSAIS



Projeto de Engenharia Civil
 Eng.º Paulo Roberto de Azevedo
 RUA DA LINDA, F.º 11, J.º 11, CEP. 61.100-000, FORTALEZA, CE.



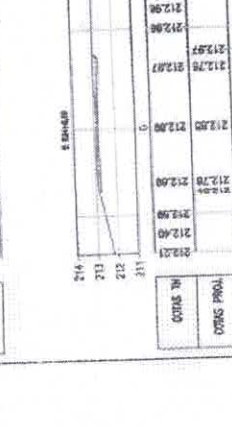
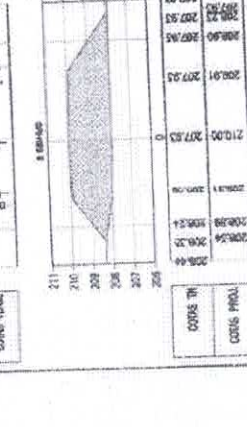
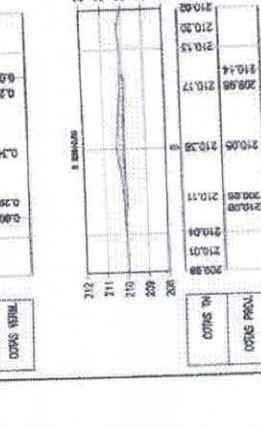
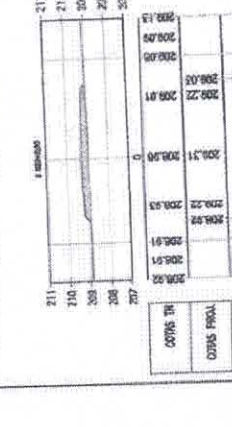
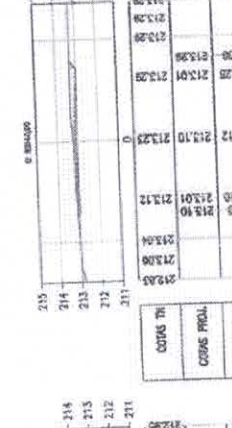
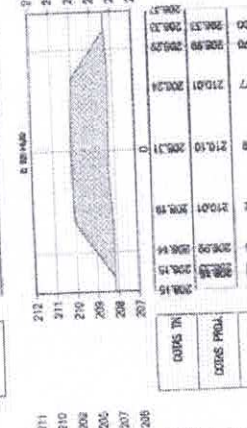
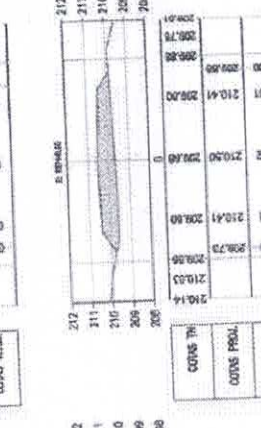
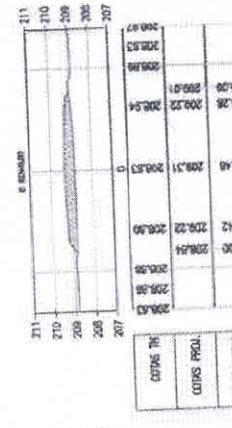
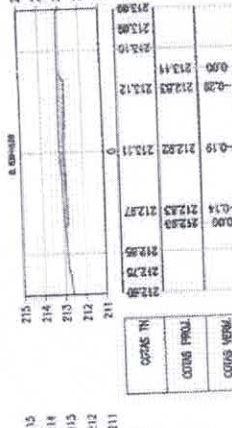
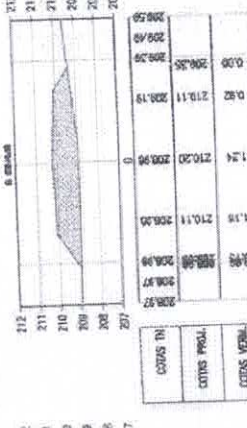
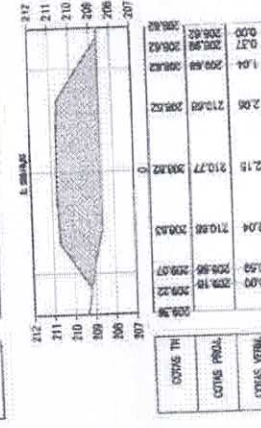
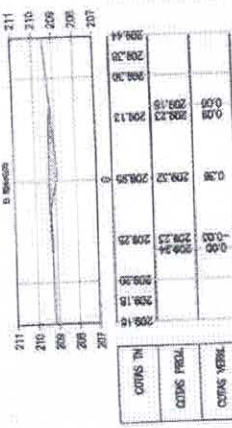
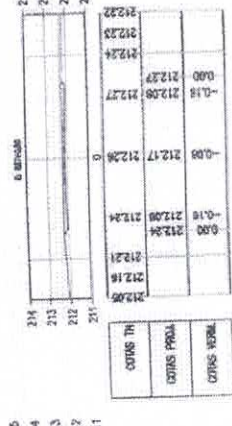
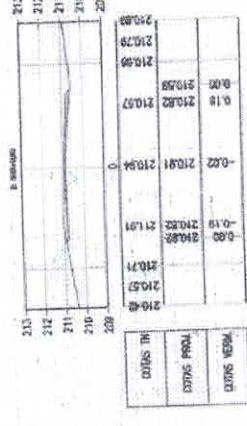
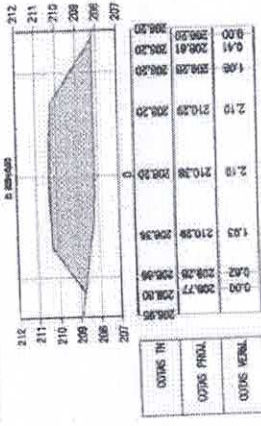
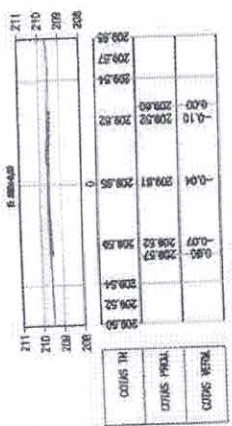
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 SEÇÕES TRANSVERSAIS



Alcides de Lencina Jr. Inosso
 Engenheiro Civil
 R. 100 - 1100-2

PROJETA
 ANDRÉ LAC

Z. PROJETO DE TERRAPLANAGEM: R. 1. DM3

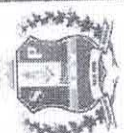


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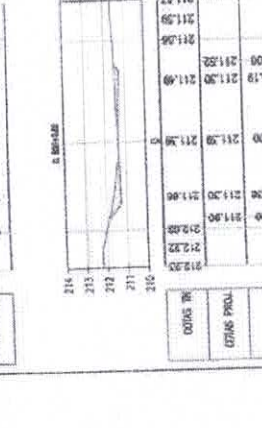
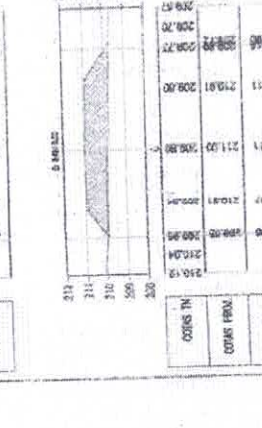
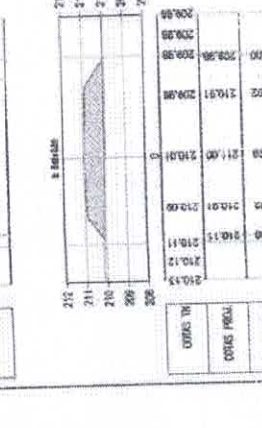
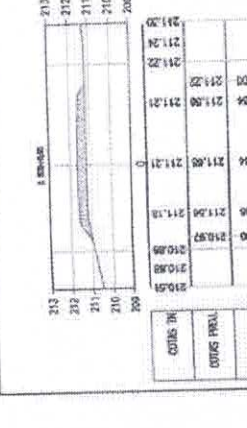
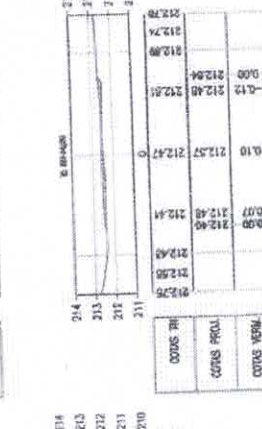
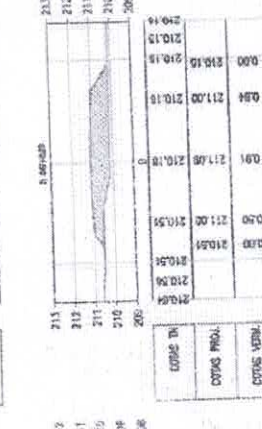
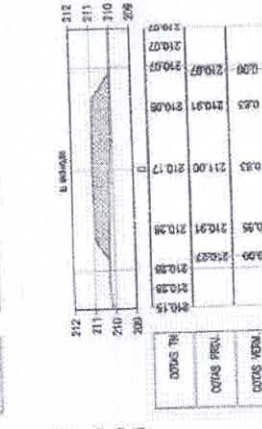
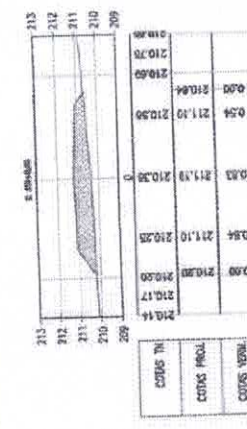
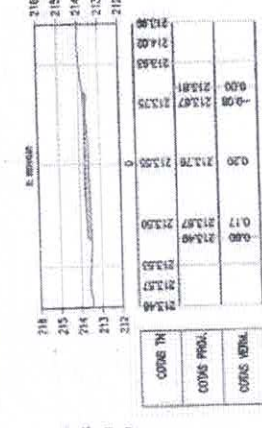
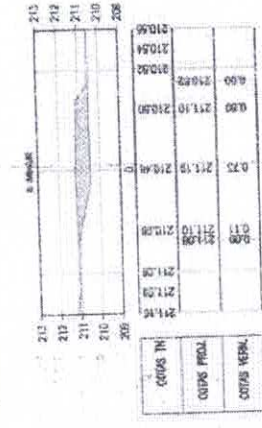
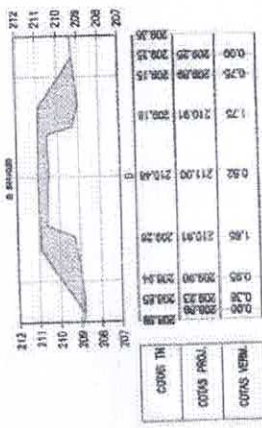
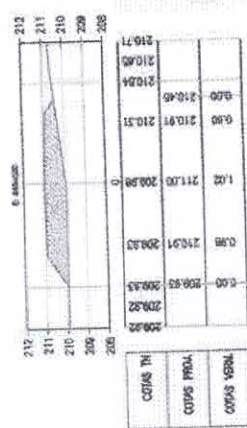
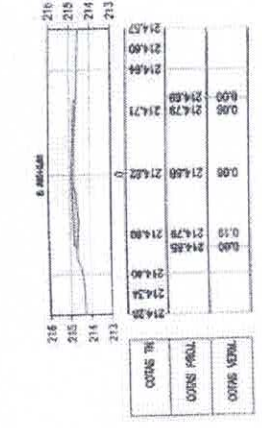
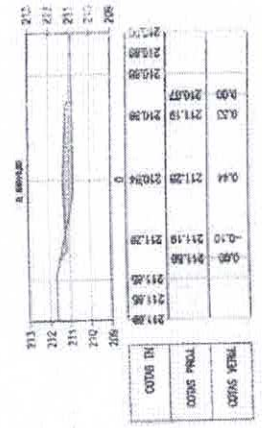
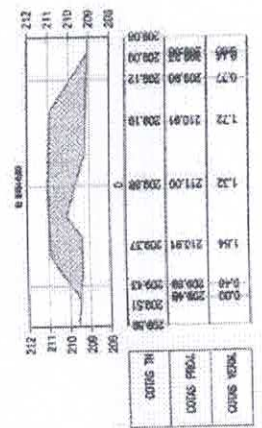
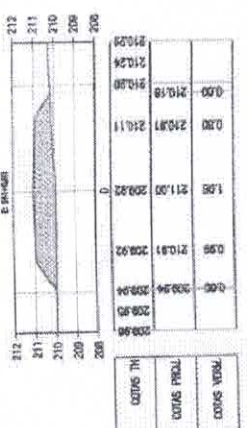
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SEÇÕES TRANSVERSAIS



Alcides da Leão (R. 11000)
Engenheiro Civil
R. 11000, 11000, 11000

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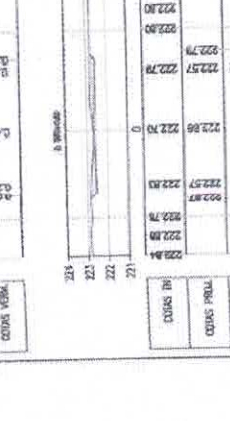
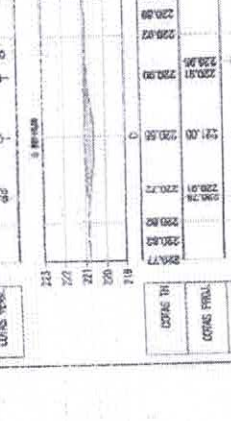
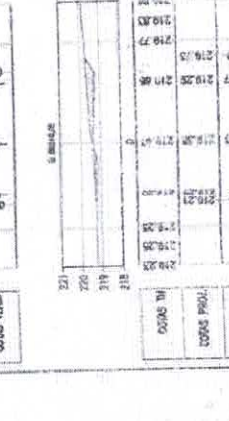
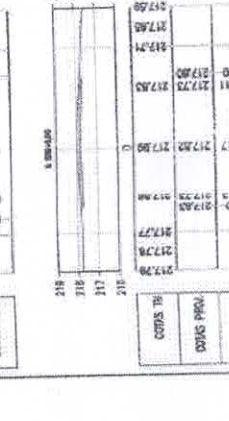
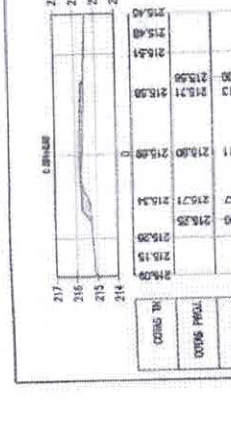
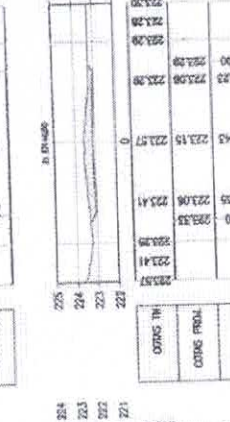
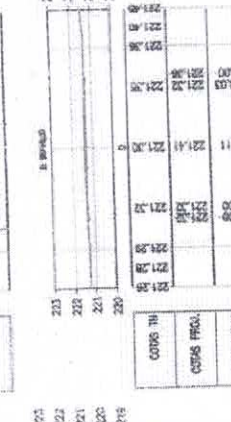
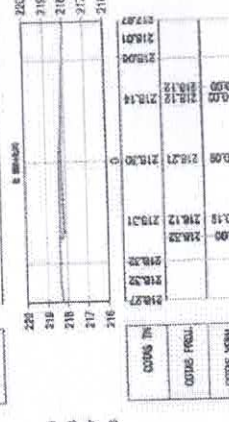
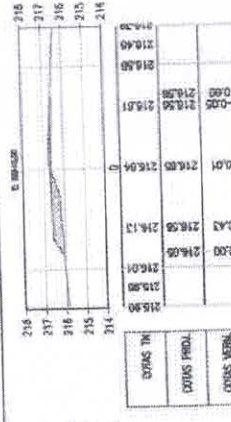
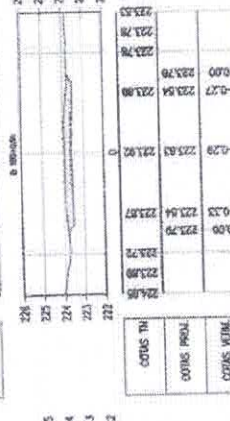
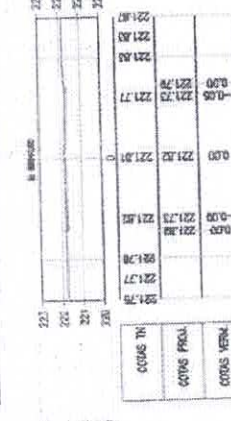
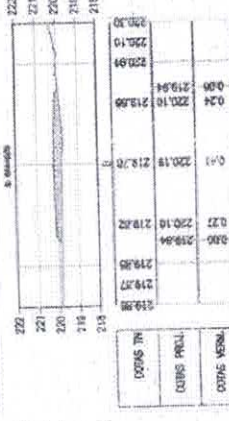
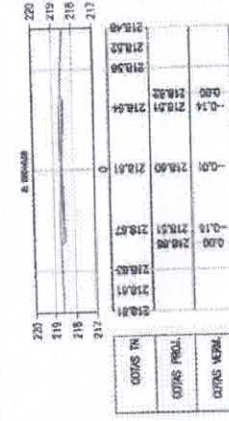
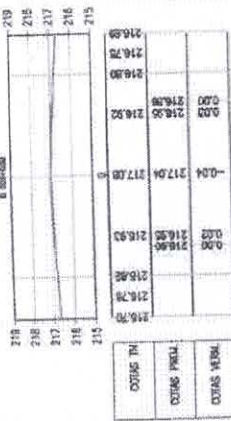
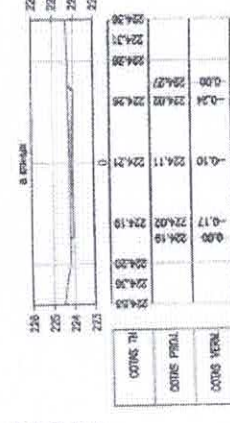
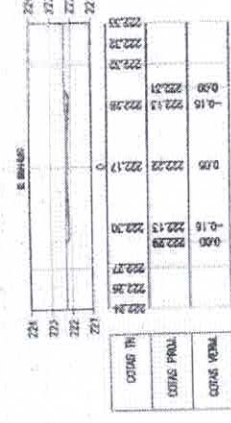
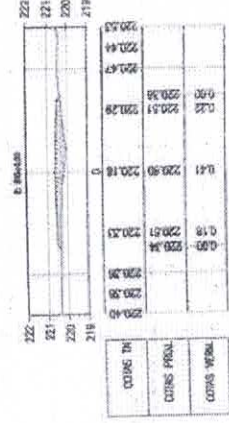
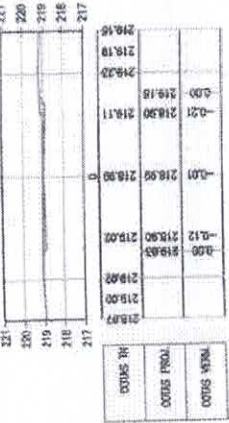
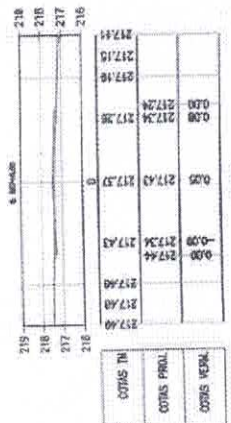


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Alameda da Liberdade, Ff. João Paulo
Engenheiro Civil
L. V. O. 048 / 2007

PROJETISTA: [Signature]
ARQUITETO: [Signature]

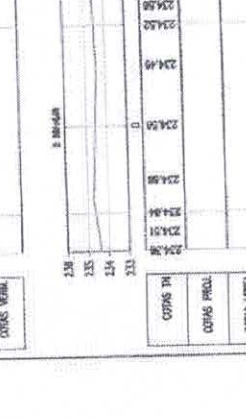
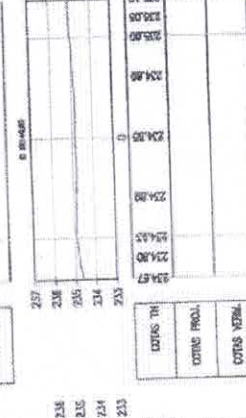
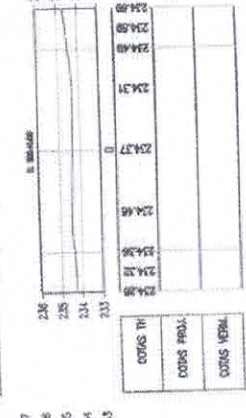
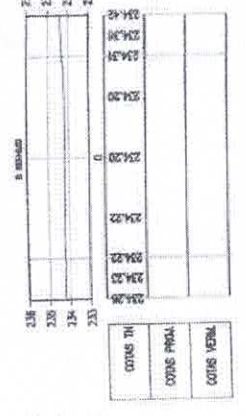
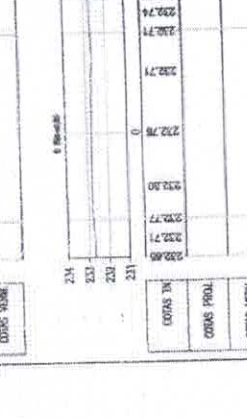
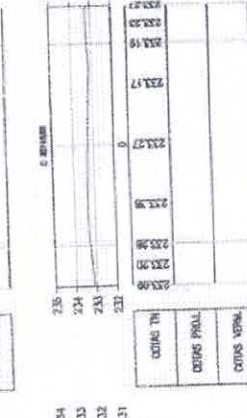
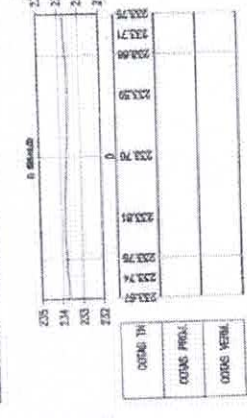
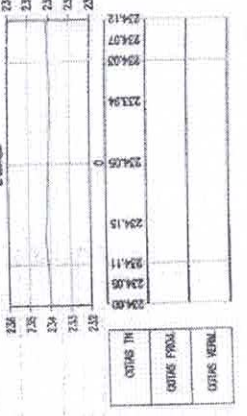
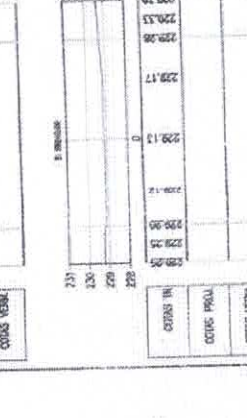
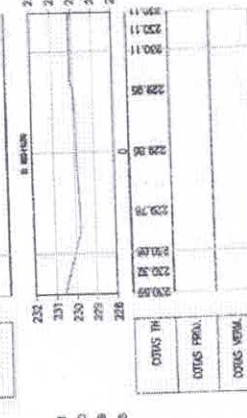
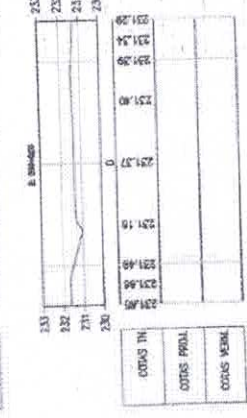
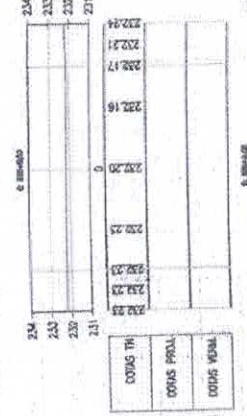
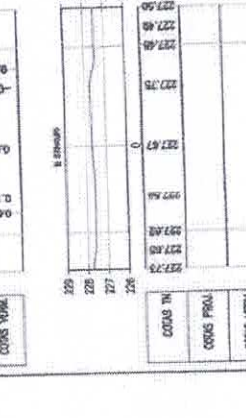
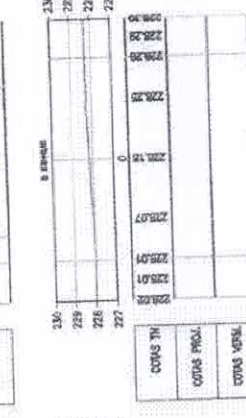
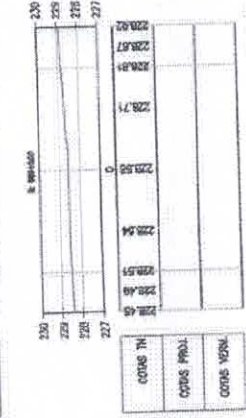
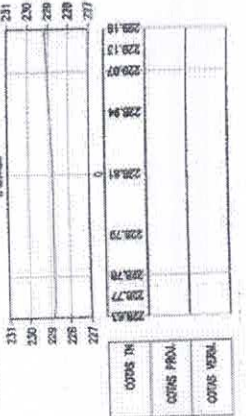
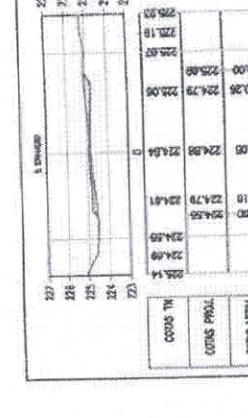
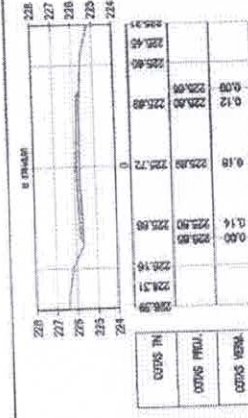
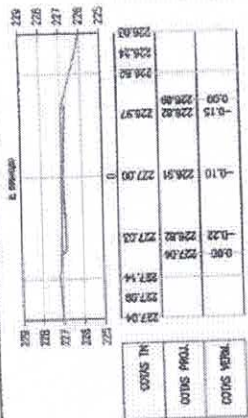
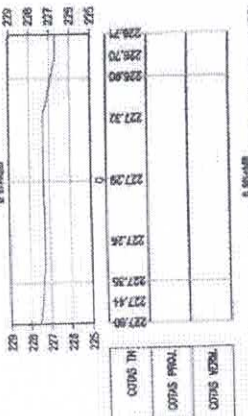


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Alcides da Leão Jr. (LUS)
Engenheiro Civil
150.000.712.2



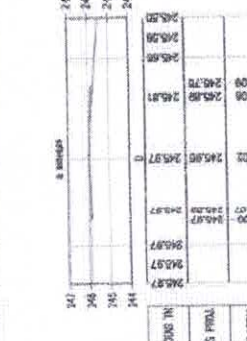
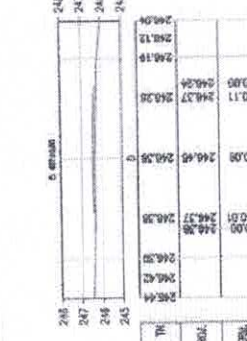
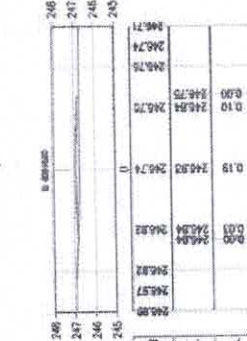
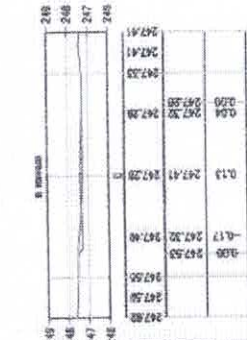
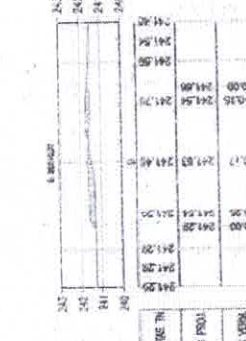
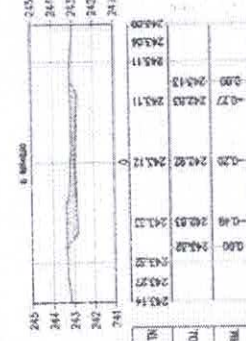
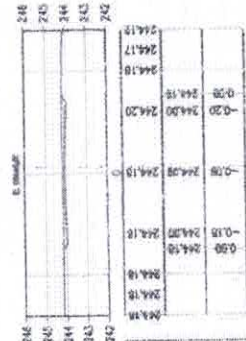
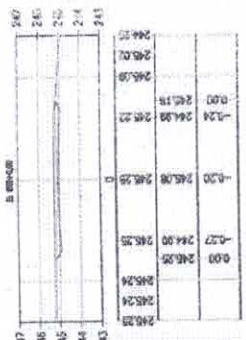
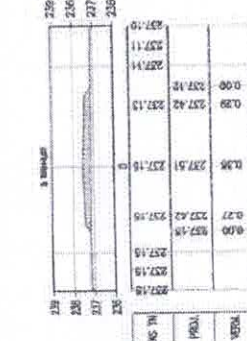
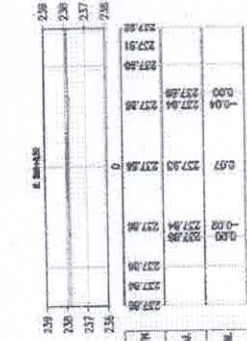
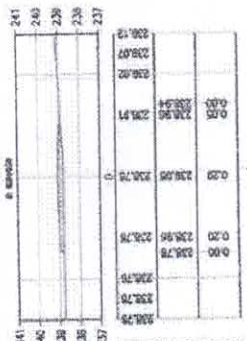
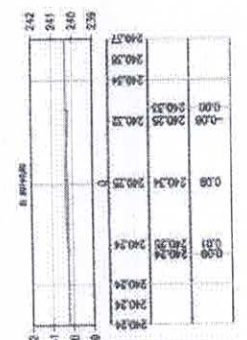
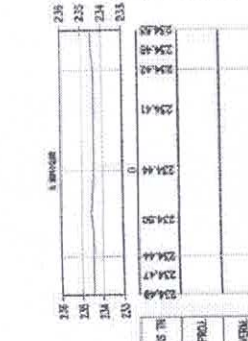
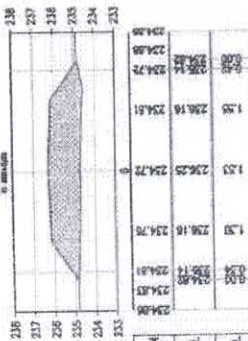
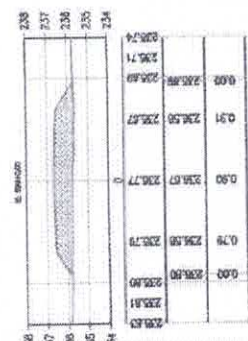
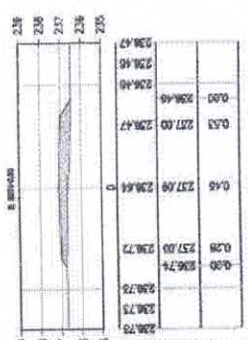
RUBRICA 434
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PROJEÇÃO
35 / 42
ESCALA
1/250

PREFEITURA MUNICIPAL DE SENADOR POMPEU - CE.
RECUPERAÇÃO DE ESTRADA VICINAL DE SENADOR POMPEUCE
TRECHO: BR 226 A LOCALIDADE DE JENIPAPEIRO
SEÇÕES TRANSVERSAIS



Placa de Lei nº 11059
Engenheiro Civil
RUBRICA 434



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RUBRICA

431
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PRESELETA

36 / 42

ESCALA:

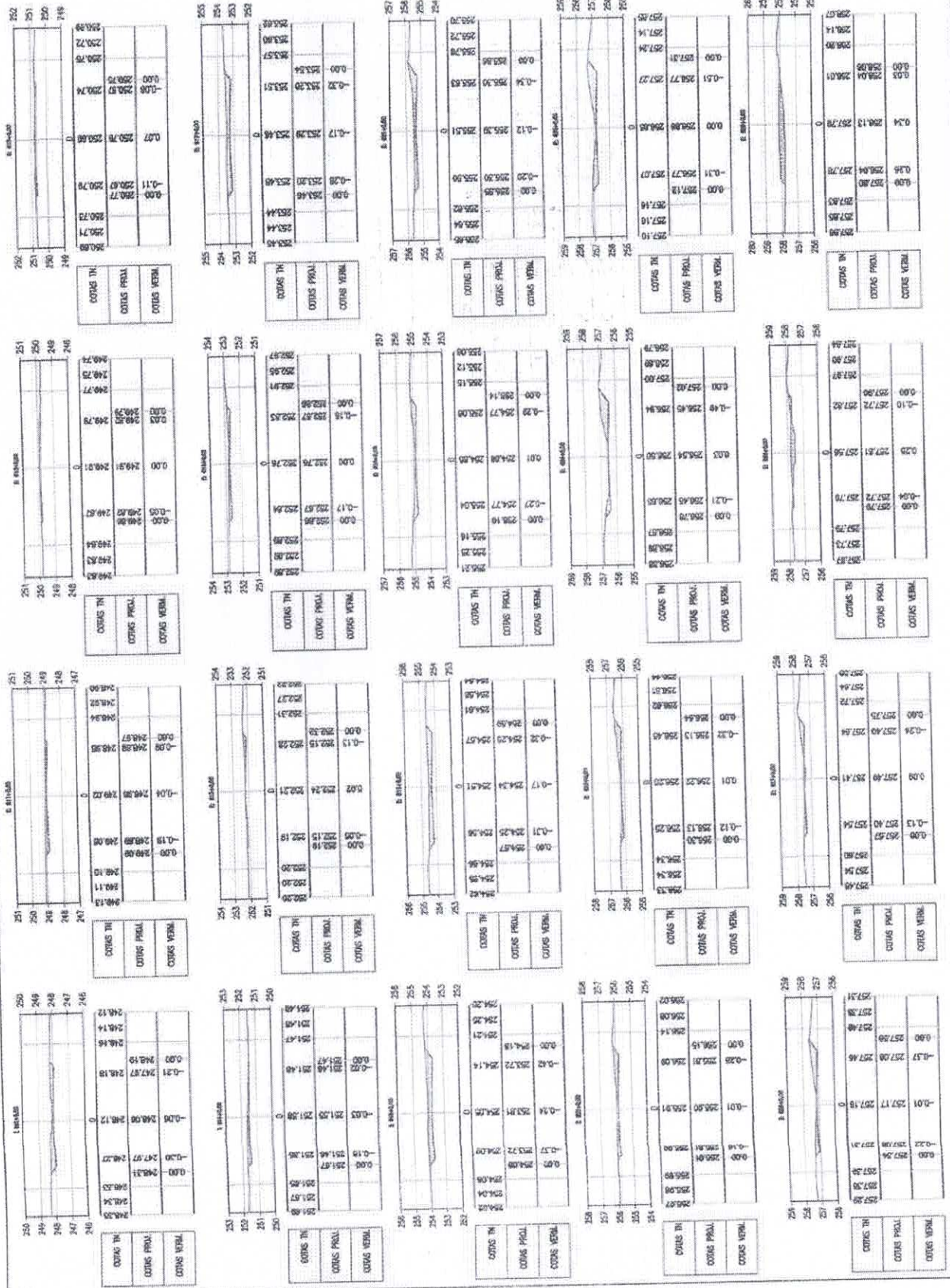
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PREFEITURA MUNICIPAL DE SENADOR POMPEU - CE.
RECUPERAÇÃO DE ESTRADA VICINAL DE SENADOR POMPEU
TRECHO: BR 226 A LOCALIDADE DE JENIPAPEIRO
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Mapa de Localização
Engenharia Civil
10/08/2012

PROJETISTA: AIRLINDO
2 - PROJETO DE TERRAPLANAGEM (RUBRICA)



RUBRICA

476

PREVENIA

37/42

ESCALA:

1/250

PREFEITURA MUNICIPAL DE SENADOR POMPEU - CE.
 RECUPERAÇÃO DE ESTRADA VICINAL DE SENADOR POMPEU/CE
 TRECHO: BR 226 A LOCALIDADE DE JENIPAPEIRO

SEÇÕES TRANSVERSAIS

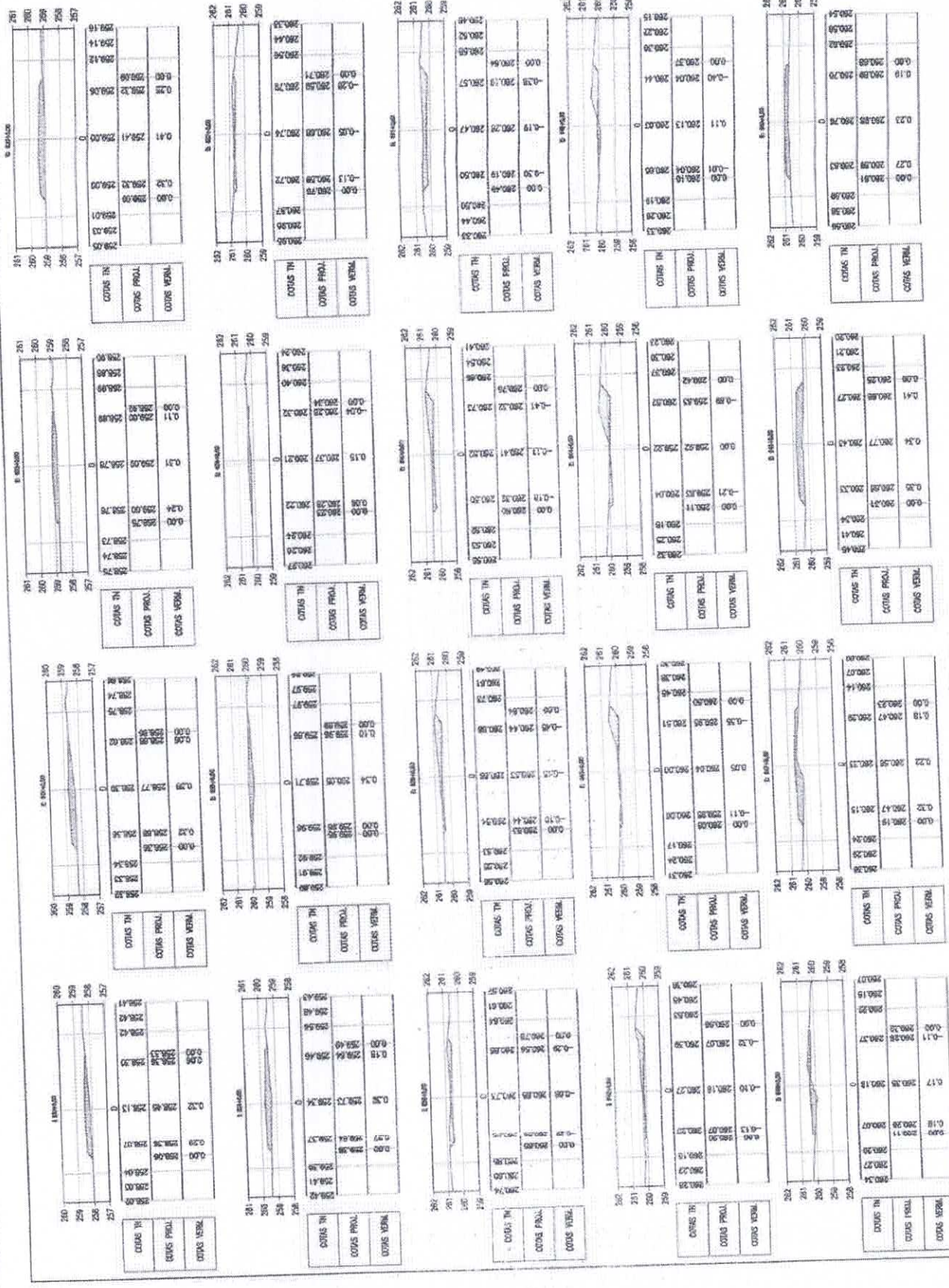


PROJETISTA

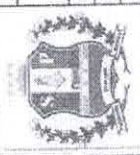
2 - PROJETO DE TERRAPLANAGEM, ET. 1/40

Alana de Lima Et. (1005)

Engenharia Civil
 LANCOS S/A

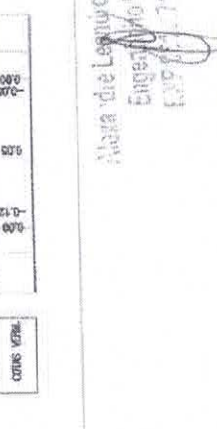
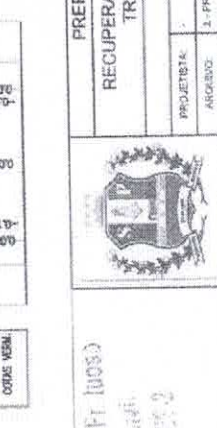
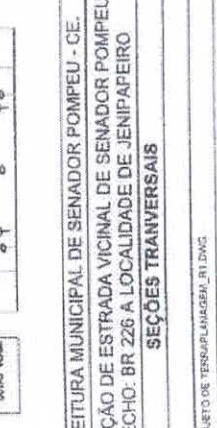
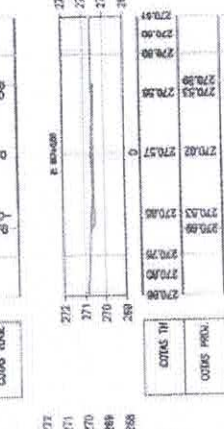
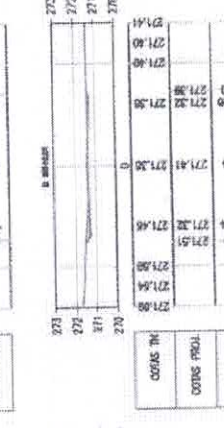
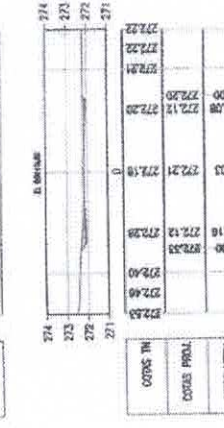
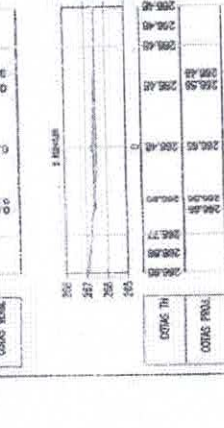
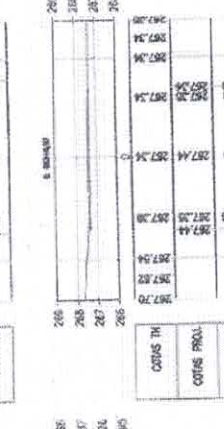
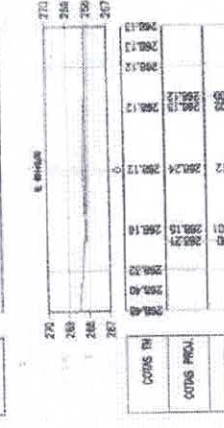
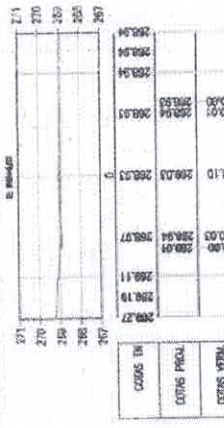
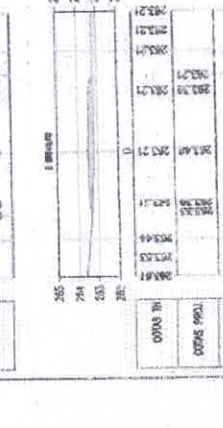
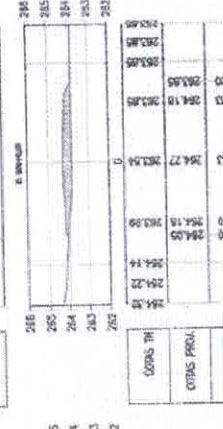
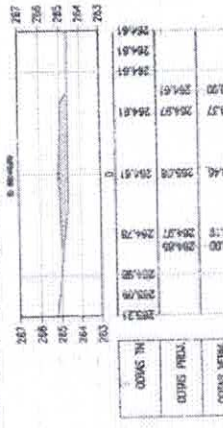
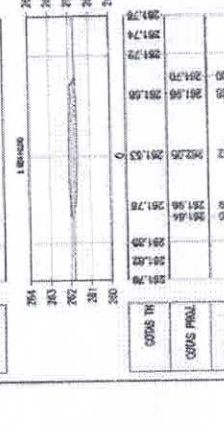
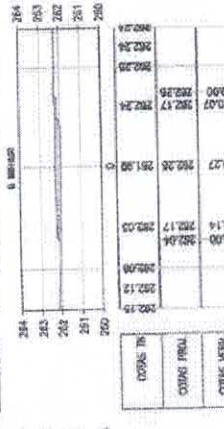
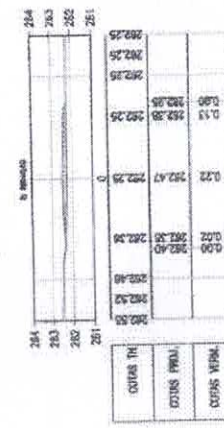
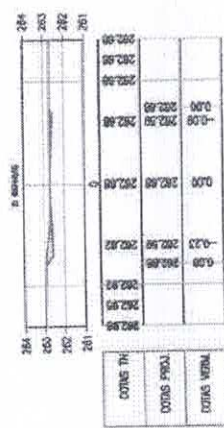
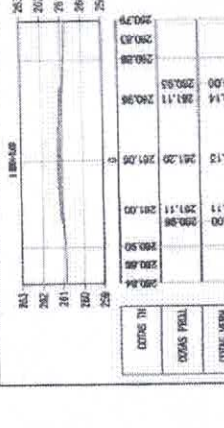
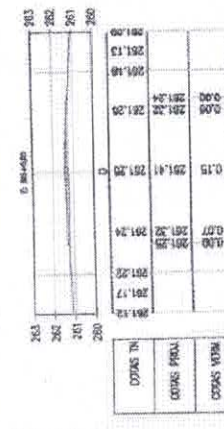
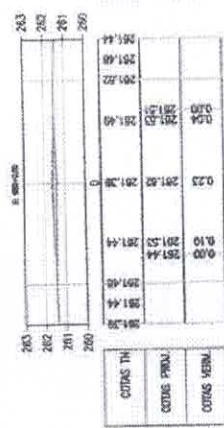
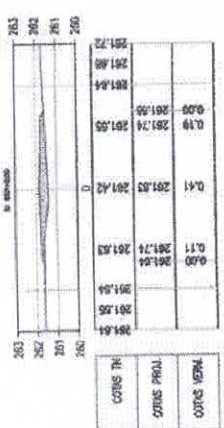


PREFEITURA MUNICIPAL DE SENADOR POMPEU - CE.
RECUPERAÇÃO DE ESTRADA VICINAL DE SENADOR POMPEUCE
TRECHO: BR 226 A LOCALIDADE DE JENIPAPEIRO
SEÇÕES TRANSVERSAIS



Alvaro de Lacerda Fr. Lucas
Engenheiro Civil
RUA ... 71350

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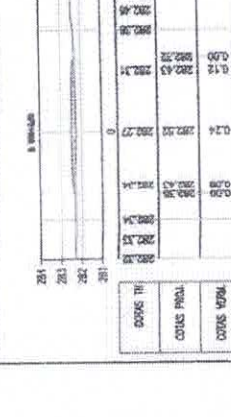
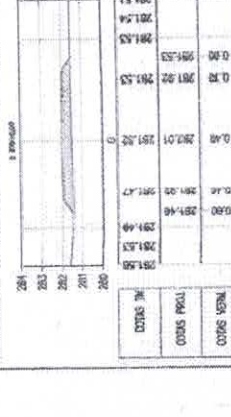
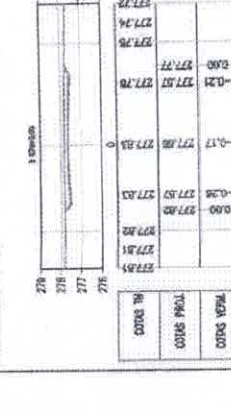
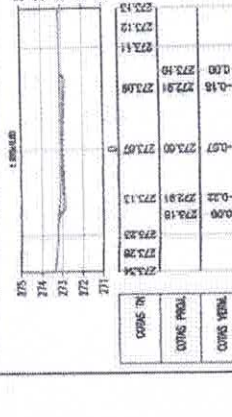
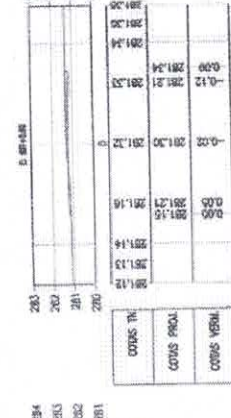
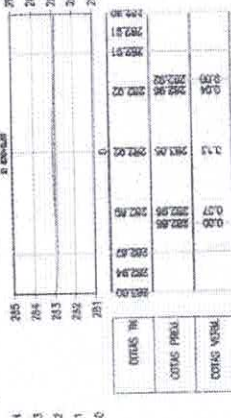
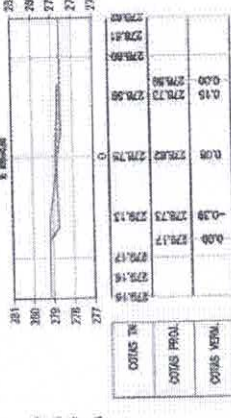
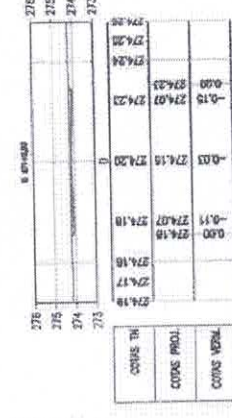
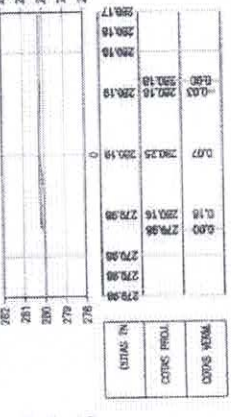
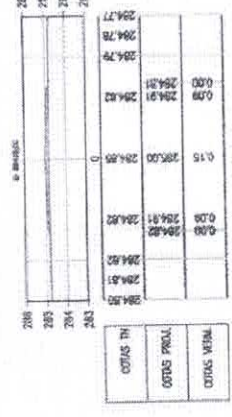
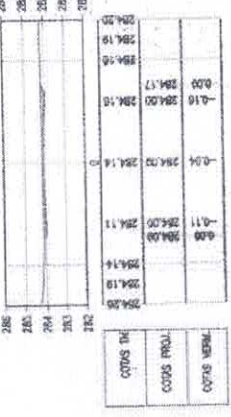
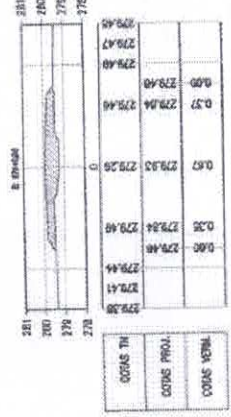
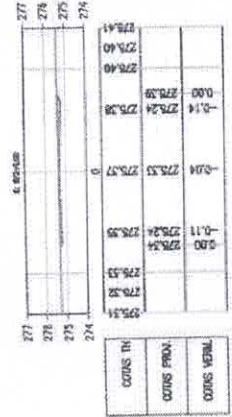
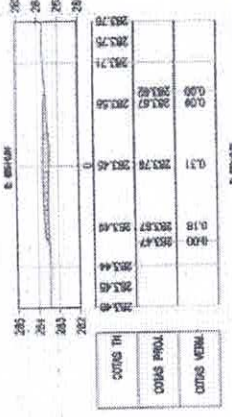
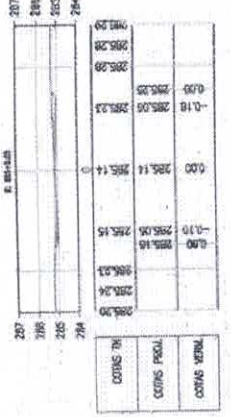
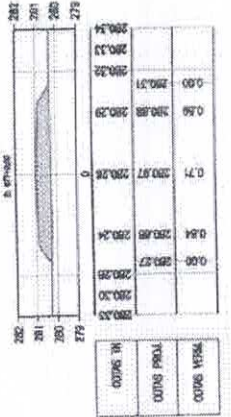
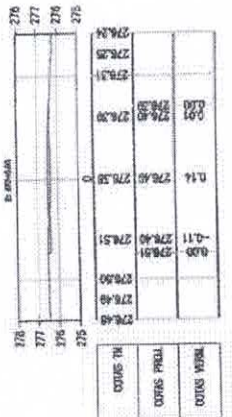
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PREFEITURA MUNICIPAL DE SENADOR POMPEU - CE.
RECUPERAÇÃO DE ESTRADA VICINAL DE SENADOR POMPEU
TRECHO: BR 226 A LOCALIDADE DE JENIPAPEIRO
SEÇÕES TRANSVERSAIS



Flora de Lealvo Jr Iúso
Engenheiro Civil
RUA J. J. 113-2

PROJETA: ARQUIVO: 3 - PROJETO DE TERRAPLENAGEM_BLDWG



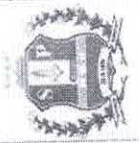
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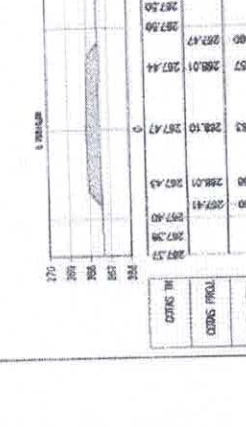
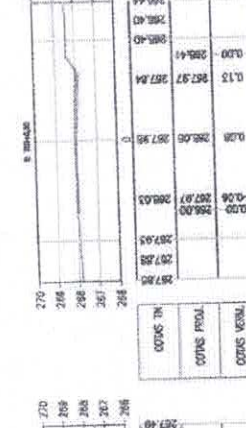
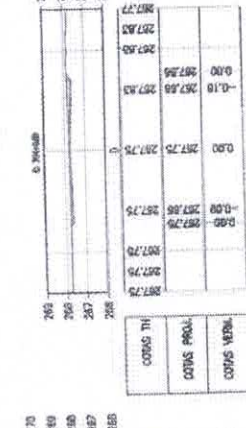
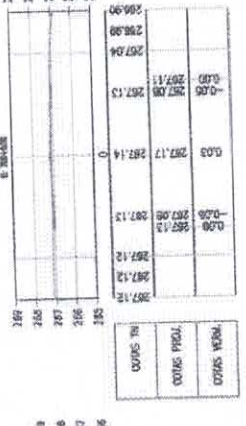
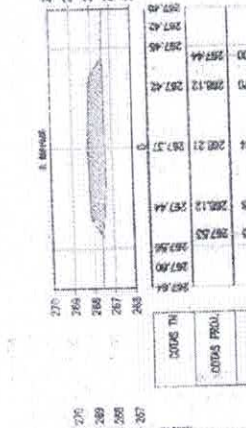
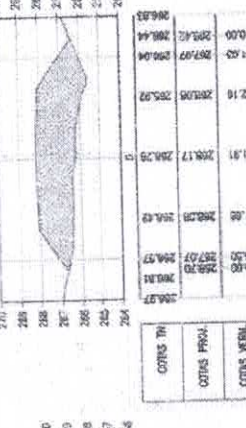
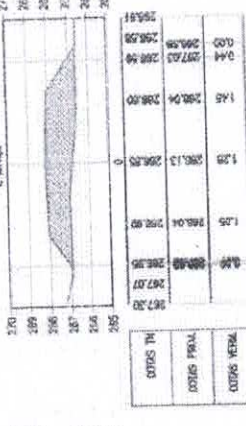
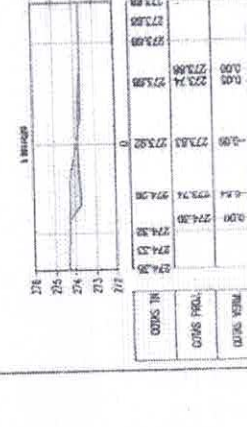
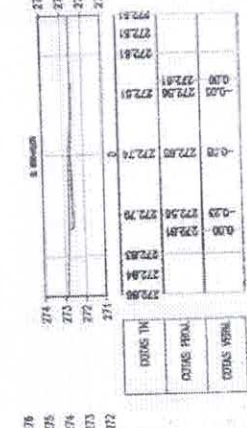
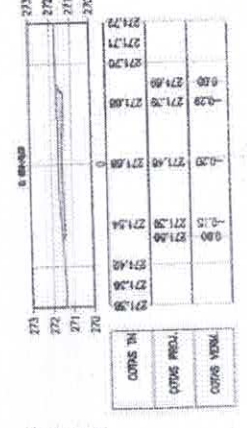
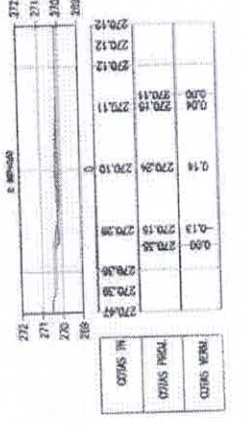
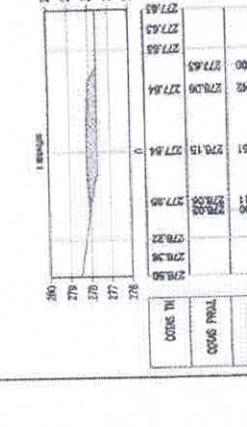
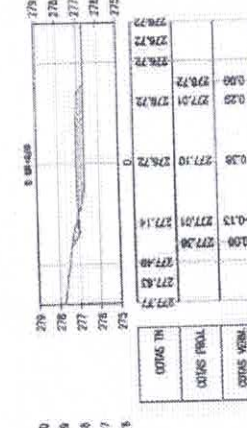
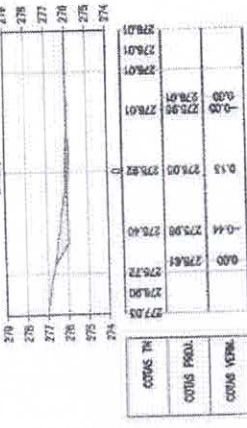
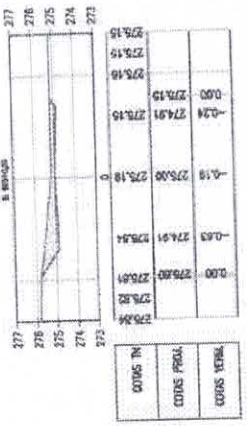
FRANQUIA 40/42

ESCALA 1/250

PREFEITURA MUNICIPAL DE SENADOR POMPEU - CE.
RECUPERAÇÃO DE ESTRADA VICINAL DE SENADOR POMPEU/CE
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SEÇÕES TRANSVERSAIS



Area de Trabalho Fl. Único
Eugenio do Civo
L. 29/10/1962

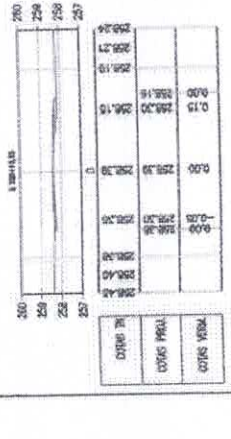
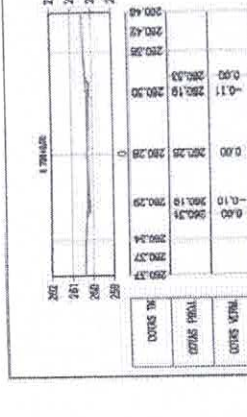
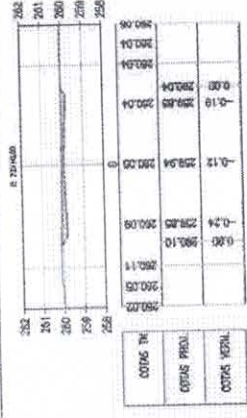
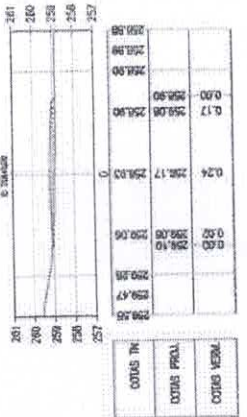
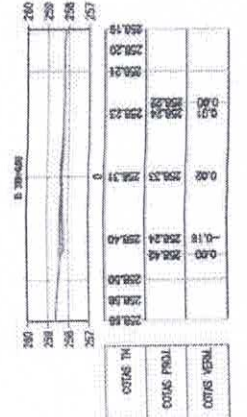


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PRELIMINAR
42 / 42
ESCALA:
1/250



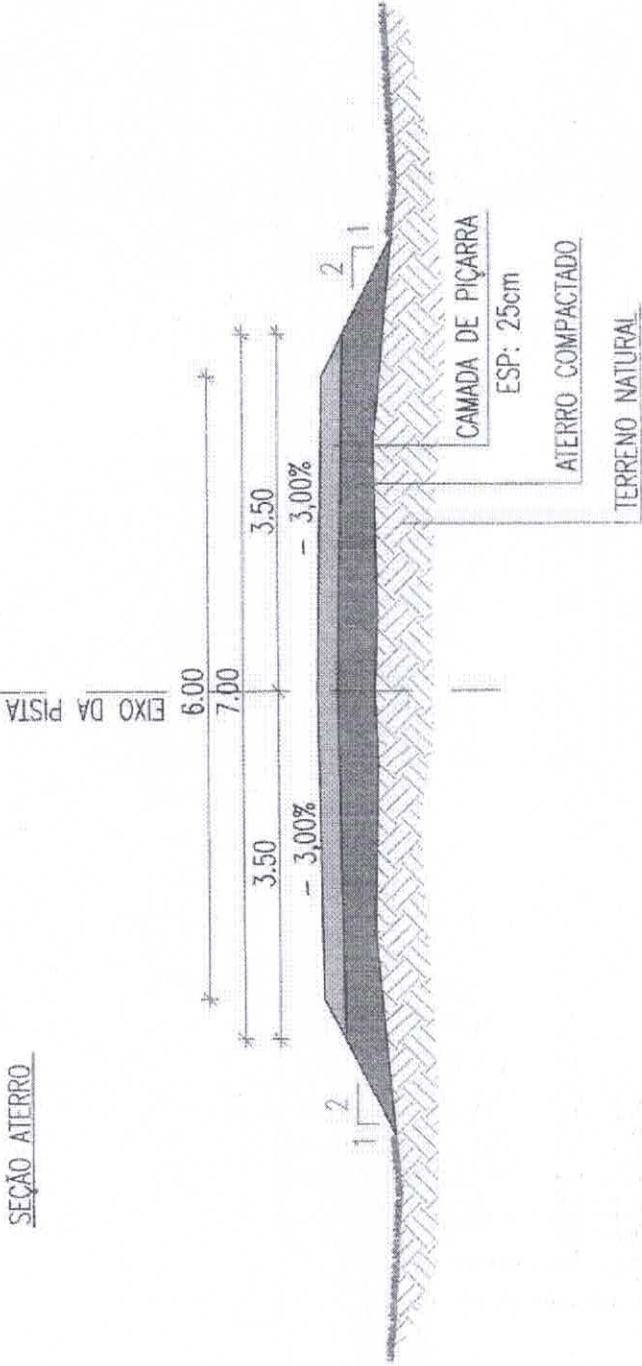
PREFEITURA MUNICIPAL DE SENADOR POMPEU - CE.
RECUPERAÇÃO DE ESTRADA VICINAL DE SENADOR POMPEU
TRECHO: BR 226 A LOCALIDADE DE JENIPAPEIRO
SEÇÕES TRANSVERSAIS

PROJETISTA:
ARQUITO: 3 - PROJETO DE TERRAPLANAGEM_F1.DWG

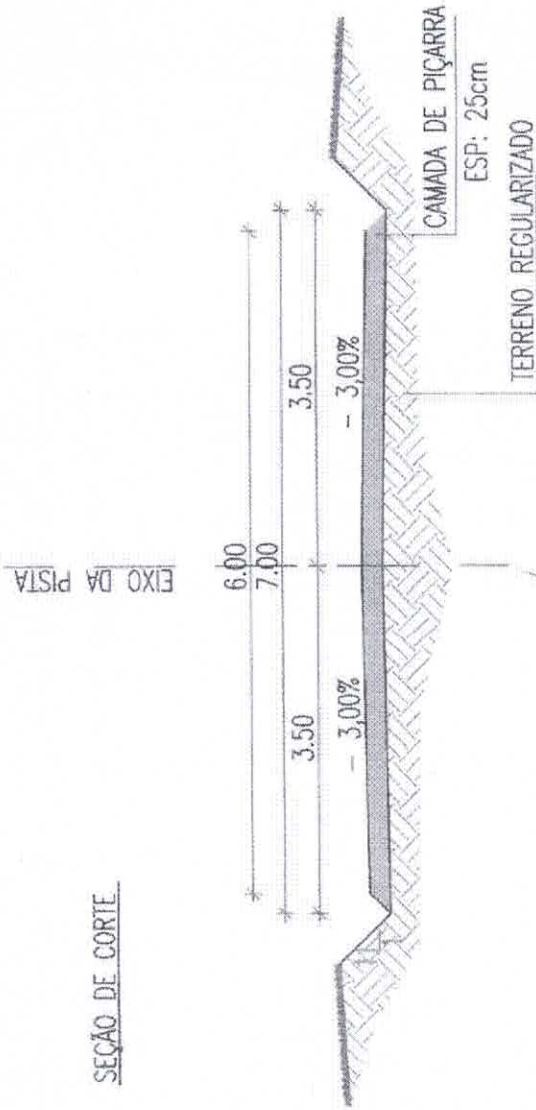


Alcides de Leão
Engenheiro Civil
CRP 045.743-2

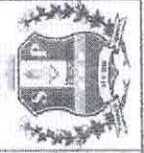
SEÇÃO ATERRO



SEÇÃO DE CORTE



Alexa de Leão Frutuoso
Engenheira Civil
F.V.O. 011.158-2



PREFEITURA MUNICIPAL DE SENADOR POMPEU - CE.
RECUPERAÇÃO DE ESTRADA VICINAL DE SENADOR POMPEU/CE
TRECHO: BR 228 A LOCALIDADE DE JENIPAPEIRO

SEÇÃO TIPO

PROJETISTA:
ARQUIVO:

3 - SEÇÃO TIPO_B01000

Fl. _____
RUBRICA _____

447
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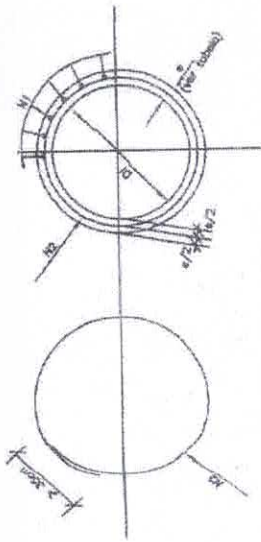
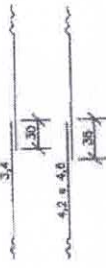
PROJECIONISTA:
01/01
ESCALA:
1/50

TUBOS DE CONCRETO ARMADO

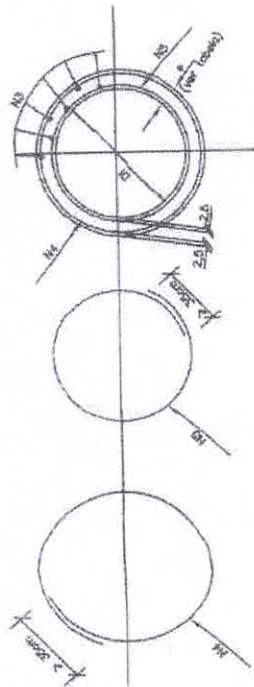
Ed. > 15 MPa
Aço Dn-508

TABELA DE ARMADURAS (POR METRO DE TUBO)		CA-1 (ALURA DE ATERRO) 1,0 a 3,5m	
TUBOS TIPO CA-1 (A80)		RESUMO DE AÇO	
FORMAS DN (cm)	ARMADURAS (CA-608)	BTOLA 80	100
N	B	F	P
1	3,4	15	1
2	5,0	10	10
3	5,4	15	10
4	5,8	15	10
5	6,2	15	10
6	6,6	15	10
TOTALS		6	14

DET. DE EMENDA
(EMENDAR EM POSIÇÕES DRENTRES)



SEÇÃO TRANSVERSAL



SEÇÃO TRANSVERSAL

NOTAS:
1 - Dimensione em cm.

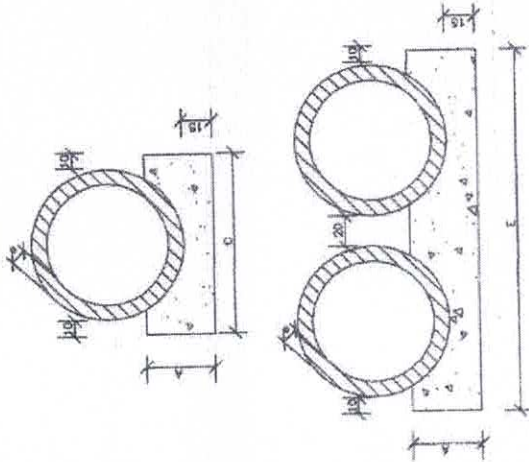
BERÇOS PARA ASSENTAMENTOS DE BUEIROS

BERÇOS

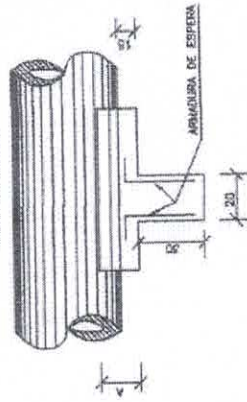
QUADRO DE DIMENSÕES (cm)					
DIÂMETRO	A	C	E	F	φ
80	35	1,20	240	-	10
100	40	1,44	288	432	12

QUANTIDADES UNITÁRIAS DOS DENTES		
DIÂMETRO (cm)	DUPLO	
	CONCRETO (m³)	ARMADURA (kg)
80	0,048	0,750
100	0,116	1,060

QUANTIDADES POR METRO LINEAR DE BERÇO				
DIÂMETRO (m)	SIMPLES		DUPLO	
	CONCRETO (m³)	FORMA (m²)	CONCRETO (m³)	FORMA (m²)
80	0,208	0,70	0,804	0,80
100	-	-	-	-



VISTA LATERAL



NOTAS:

- 1 - Dimensione em cm.
- 2 - Os dentes deverão ser construídos em todos os bueiros cujo declividade de instalação for superior a 5% e ser expostos de plano em sites maiores na projeção horizontal.
- 3 - Nos dentes serão colocadas armaduras de aço: 2 barras de 6,2mm a cada 20 com comprimento de 90.
- 4 - Utilizar nos bueiros concretos classificados for > 15MPa.
- 5 - No caso da colocação do tubo em volta, poderá ser executado e bueiro de material granular adossado, adotando-se o espessamento de 15 cm, dimensionando-se os tubos em função do cante e das conexões de água, de acordo com as normas aplicáveis.

Alexandre Leão, Eng. Civil
R. 100, 117 155-2



PREFEITURA MUNICIPAL DE SENADOR POMPEU - CE.
RECUPERAÇÃO DE ESTRADA VICINAL DE SENADOR POMPEU
TRECHO: BR 226 A LOCALIDADE DE JENIPAPEIRO
PROJETO DE DRENAGEM - DETALHES DE BERÇOS PARA BUEIROS

PROJETISTA:
ARQUIVO

4 - DETALHES DE BUEIROS, BUEIROS

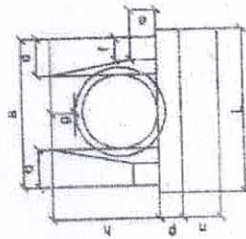
PRANCHA
01/02
ESCALA:
1/50

RUBRICA

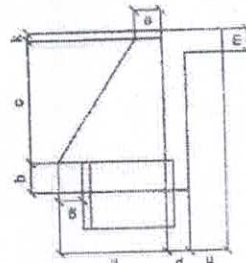
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BUEIRO SIMPLES TUBULAR DE CONCRETO - BOCAS NORMAIS

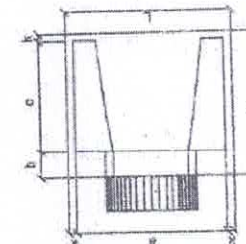
VISTA FRONTAL



VISTA LATERAL



PLANTA NORMAL

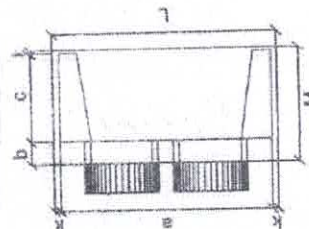


DIMENSÕES E CONSUMOS MÉDIOS PARA UMA UNIDADE

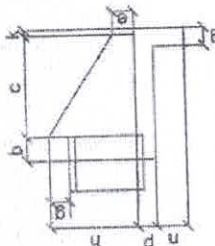
Elev.	BUEIRO SIMPLES TUBULAR										Fundação						
	a	b	c	d	e	f	g	h	k	m	com. cimento m3	chumbo kg/m2	alcaço m3	lata 1 m3	lata 2 m3	alcaço m3	
0"	170	35	190	35	190	35	190	35	190	35	9,68	2.514	12.318	1.709	1.860	0,402	0,242
5"	171	35	191	35	191	35	191	35	191	35	9,69	2.514	12.320	1.710	1.861	0,402	0,242
10"	173	36	193	36	193	36	193	36	193	36	9,76	2.515	12.325	1.713	1.863	0,403	0,244
15"	176	36	197	36	197	36	197	36	197	36	9,86	2.517	12.334	1.712	1.863	0,403	0,246
20"	181	37	202	37	202	37	202	37	202	37	9,99	2.520	12.348	1.713	1.865	0,403	0,250
25"	188	38	210	38	210	38	210	38	210	38	10,18	2.525	12.382	1.718	1.867	0,403	0,255
30"	196	40	218	40	218	40	218	40	218	40	10,47	2.537	12.381	1.718	1.870	0,404	0,262
35"	208	43	232	43	232	43	232	43	232	43	10,84	2.551	12.403	1.721	1.875	0,403	0,271
40"	222	46	248	46	248	46	248	46	248	46	10,36	2.538	12.427	1.725	1.877	0,408	0,294
10"	240	48	269	48	269	48	269	48	269	48	12,07	2.542	12.455	1.728	1.881	0,407	0,302

BUEIRO DUPLO TUBULAR DE CONCRETO - BOCAS NORMAIS

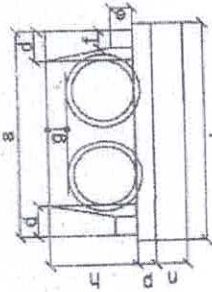
PLANTA NORMAL



VISTA LATERAL



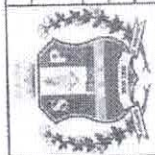
VISTA FRONTAL



Elev.	BUEIRO DUPLO TUBULAR										Fundação						
	a	b	c	d	e	f	g	h	k	m	com. cimento m3	chumbo kg/m2	alcaço m3	lata 1 m3	lata 2 m3	alcaço m3	
0"	290	38	310	38	310	38	310	38	310	38	11,51	3,037	14,883	2,365	2,430	0,486	0,286
5"	291	38	311	38	311	38	311	38	311	38	11,54	3,039	14,882	2,367	2,430	0,486	0,286
10"	294	36	316	36	316	36	316	36	316	36	11,64	3,044	14,917	2,370	2,430	0,487	0,291
15"	300	36	321	36	321	36	321	36	321	36	11,81	3,053	14,953	2,375	2,430	0,488	0,293
20"	309	37	330	37	330	37	330	37	330	37	12,06	3,065	15,018	2,384	2,430	0,490	0,295
25"	320	39	342	39	342	39	342	39	342	39	12,41	3,080	15,093	2,392	2,430	0,492	0,315
30"	335	40	358	40	358	40	358	40	358	40	12,89	3,098	15,184	2,407	2,430	0,494	0,322
35"	354	43	378	43	378	43	378	43	378	43	13,54	3,120	15,288	2,422	2,430	0,499	0,339
40"	379	46	405	46	405	46	405	46	405	46	14,43	3,145	15,408	2,438	2,430	0,503	0,36
45"	410	48	448	48	448	48	448	48	448	48	15,68	3,171	15,540	2,472	2,430	0,507	0,391

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PREFEITURA MUNICIPAL DE SENADOR POMPEU - CE.
RECUPERAÇÃO DE ESTRADA VICINAL DE SENADOR POMPEUCE
TRECHO: BR 226 A LOCALIDADE DE JENIPAPEIRO
PROJETO DE DRENAGEM - BOCA DE BUEIRO SIMPLES E DUPLA

Maíxari de Leal Filho
Engenheiro Civil
RUA ... 1155-2

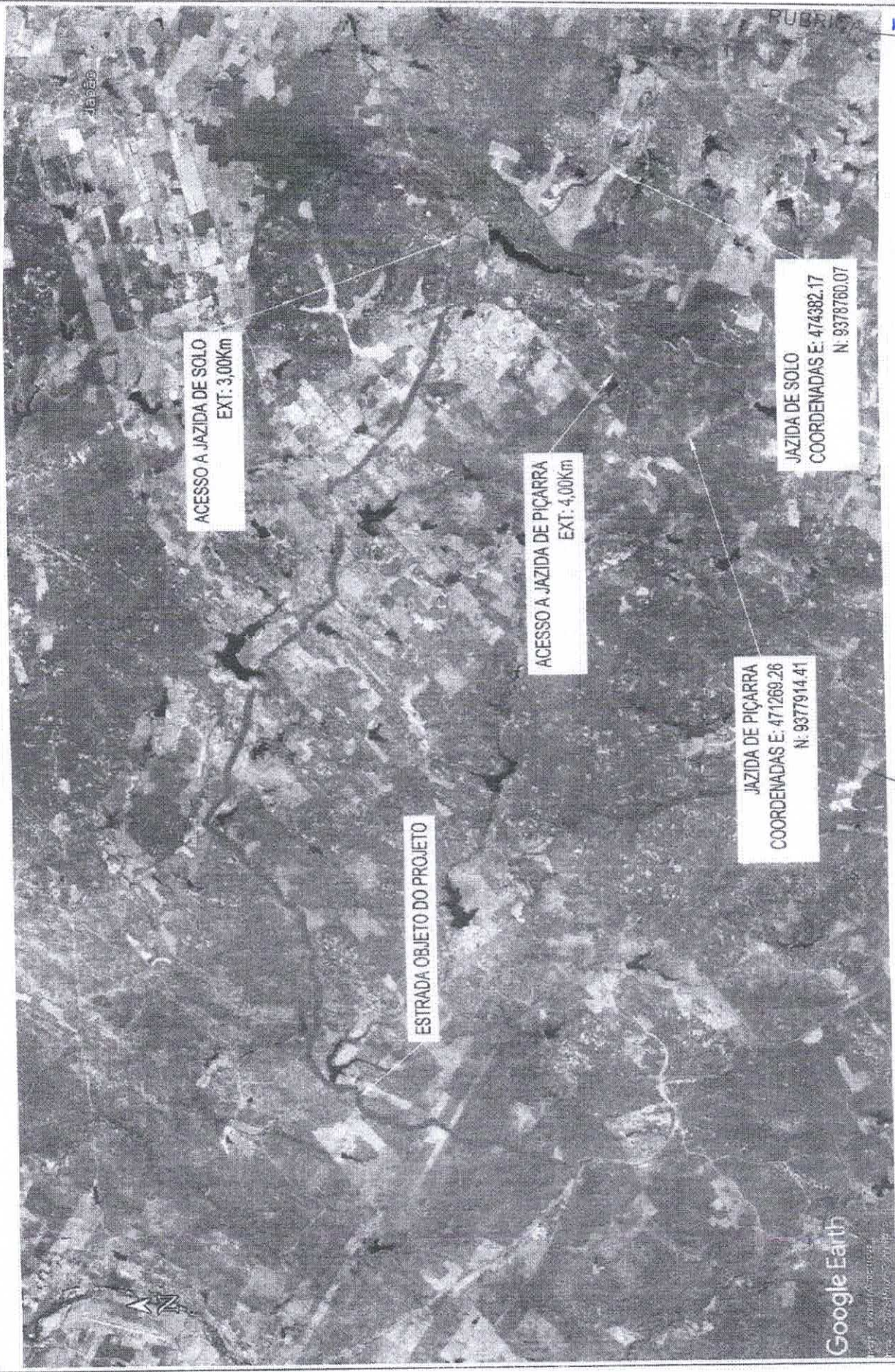
PROJETO

02/02

EPDULA

1/50

PROJETA: 4 - DETALHES DE BUEIROS_B02.DWG
ARQUIVO



Google Earth

Alexandre Leal do Frias
 Engenheiro Civil
 F.º nº 47155-2



PREFEITURA MUNICIPAL DE SENADOR POMPEU - CE.
 RECUPERAÇÃO DE ESTRADA VICINAL DE SENADOR POMPEUCE
 TRECHO BR 226 / JENIPAREIRO

PLANTA DE JAZIDAS

PROJETA:
 ARQUIVO:

S - PLANTA DE JAZIDAS SOLO E PIÇARRA.DWG

PROJETO: 01/01
 ESCALA:
 SIEMSCALA



Anotação de Responsabilidade Técnica - ART
Lei nº 6.496, de 7 de dezembro de 1977

CREA-CE

ART OBRA / SERVIÇO
Nº CE20231296603

Conselho Regional de Engenharia e Agronomia do Ceará

COMPLEMENTAR à
CE20210844418

1. Responsável Técnico

ALEXANDRE LEANDRO FRUTUOSO

Título profissional: ENGENHEIRO CIVIL, PÓS-GRADUAÇÃO EM AVALIAÇÕES E PERÍCIAS DE ENGENHARIA

RNP: 0614174562
Registro: 55822CE

Empresa contratada: WU CONSTRUÇÕES E SERVIÇOS LTDA

Registro: 0006405612-CE

2. Dados do Contrato

Contratante: PREFEITURA MUNICIPAL DE SENADOR POMPEU
AVENIDA FRANCISCO FRANÇA CAMBRAIA

CPF/CNPJ: 07.728.421/0001-82
Nº: S/N

Complemento:
Cidade: Senador Pompeu

Bairro: CENTRO
UF: CE

CEP: 63600000

Contrato: SI-TP002/2021-01

Celebrado em: 25/03/2021

Valor: R\$ 11.800,00

Tipo de contratante: Pessoa Jurídica de Direito Público

Ação Institucional: NENHUMA - NÃO OPTANTE

3. Dados da Obra/Serviço

ESTRADA BR-226 AO JENIPAPEIRO

Nº: S/N

Complemento:
Cidade: SENADOR POMPEU

Bairro: ZONA RURAL
UF: CE

CEP: 63600000

Data de Início: 04/04/2023

Previsão de término: 17/10/2023

Coordenadas Geográficas: 05°36'53.16"S, 39°20'13.07"W

Finalidade: Infraestrutura

Código: Não Especificado

Proprietário: PREFEITURA MUNICIPAL DE SENADOR POMPEU

CPF/CNPJ: 07.728.421/0001-82

4. Atividade Técnica

	Quantidade	Unidade
14 - Elaboração		
80 - Projeto > TRANSPORTES > INFRAESTRUTURA RODOVIÁRIA > #4.1.6 - DE BASE E SUB-BASE PARA RODOVIAS	26.450,74	m3
35 - Elaboração de orçamento > TRANSPORTES > INFRAESTRUTURA RODOVIÁRIA > #4.1.6 - DE BASE E SUB-BASE PARA RODOVIAS	26.450,74	m3
80 - Projeto > GEOTECNIA E GEOLOGIA DA ENGENHARIA > OBRAS DE TERRA > DE OBRAS DE TERRA > #3.3.1.9 - TERRAPLENAGEM	46.740,22	m3
35 - Elaboração de orçamento > GEOTECNIA E GEOLOGIA DA ENGENHARIA > OBRAS DE TERRA > DE OBRAS DE TERRA > #3.3.1.9 - TERRAPLENAGEM	46.740,22	m3
80 - Projeto > OBRAS HIDRÁULICAS E RECURSOS HÍDRICOS > SISTEMAS DE DRENAGEM PARA OBRAS CIVIS > DE SISTEMAS DE DRENAGEM PARA OBRAS CIVIS > #5.3.1.2 - BUEIRO	50,00	m
35 - Elaboração de orçamento > OBRAS HIDRÁULICAS E RECURSOS HÍDRICOS > SISTEMAS DE DRENAGEM PARA OBRAS CIVIS > DE SISTEMAS DE DRENAGEM PARA OBRAS CIVIS > #5.3.1.2 - BUEIRO	50,00	m
80 - Projeto > GEOTECNIA E GEOLOGIA DA ENGENHARIA > OBRAS DE TERRA > DE OBRAS DE TERRA > #3.3.1.8 - LIMPEZA DE TERRENO	42.462,72	m2
35 - Elaboração de orçamento > GEOTECNIA E GEOLOGIA DA ENGENHARIA > OBRAS DE TERRA > DE OBRAS DE TERRA > #3.3.1.8 - LIMPEZA DE TERRENO	42.462,72	un
80 - Projeto > TOPOGRAFIA > LEVANTAMENTOS TOPOGRÁFICOS BÁSICOS > DE LEVANTAMENTO TOPOGRÁFICO > #3.1.1.3 - PLANIALTIMÉTRICO	9,62	Ha
35 - Elaboração de orçamento > TOPOGRAFIA > LEVANTAMENTOS TOPOGRÁFICOS BÁSICOS > DE LEVANTAMENTO TOPOGRÁFICO > #3.1.1.3 - PLANIALTIMÉTRICO	9,62	Ha

Após a conclusão das atividades técnicas o profissional deve proceder a baixa desta ART

5. Observações

PROJETO E ORÇAMENTO DA RECUPERAÇÃO DA ESTRADA VICINAL À LOCALIDADE DE JENIPAPEIRO, NO MUNICÍPIO DE SENADOR POMPEU - CE.

6. Declarações

- Declaro que estou cumprindo as regras de acessibilidade previstas nas normas técnicas da ABNT, na legislação específica e no decreto n. 5296/2004.

7. Entidade de Classe

A autenticidade desta ART pode ser verificada em: <https://crae-ce.sitac.com.br/publicof>, com a chave: 321b2
Impresso em: 17/10/2023 às 16:43:44 por: ip: 192.168.100.1

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Tel: (85) 3453-5800

faleconosco@crae-ce.org.br
Fax: (85) 3453-5804

CREA-CE
Conselho Regional de Engenharia e Agronomia do Ceará





Anotação de Responsabilidade Técnica - ART
Lei nº 6.496, de 7 de dezembro de 1977

CREA-CE

**ART OBRA / SERVIÇO
Nº CE20231296603**

Conselho Regional de Engenharia e Agronomia do Ceará

COMPLEMENTAR à
CE20210844418

SINDICATO DOS ENGENHEIROS NO ESTADO DO CEARÁ (SENGE-CE)

8. Assinaturas _____

Declaro serem verdadeiras as informações acima

ALEXANDRE LEANDRO FRUTUOSO - CPF: 039.453.983-47

_____ de _____ de _____
Local data

PREFEITURA MUNICIPAL DE SENADOR POMPEU - CNPJ:
07.728.421/0001-82

9. Informações _____

* A ART é válida somente quando quitada, mediante apresentação do comprovante do pagamento ou conferência no site do Crea.

10. Valor _____

Valor da ART: R\$ 96,62 Registrada em: 17/10/2023 Valor pago: R\$ 96,62 Nosso Número: 8216507553

A autenticidade desta ART pode ser verificada em: <https://crea-ce.sitac.com.br/publico/>, com a chave: 321b2
Impresso em: 17/10/2023 às 16:43:44 por: , ip: 192.168.100.1

