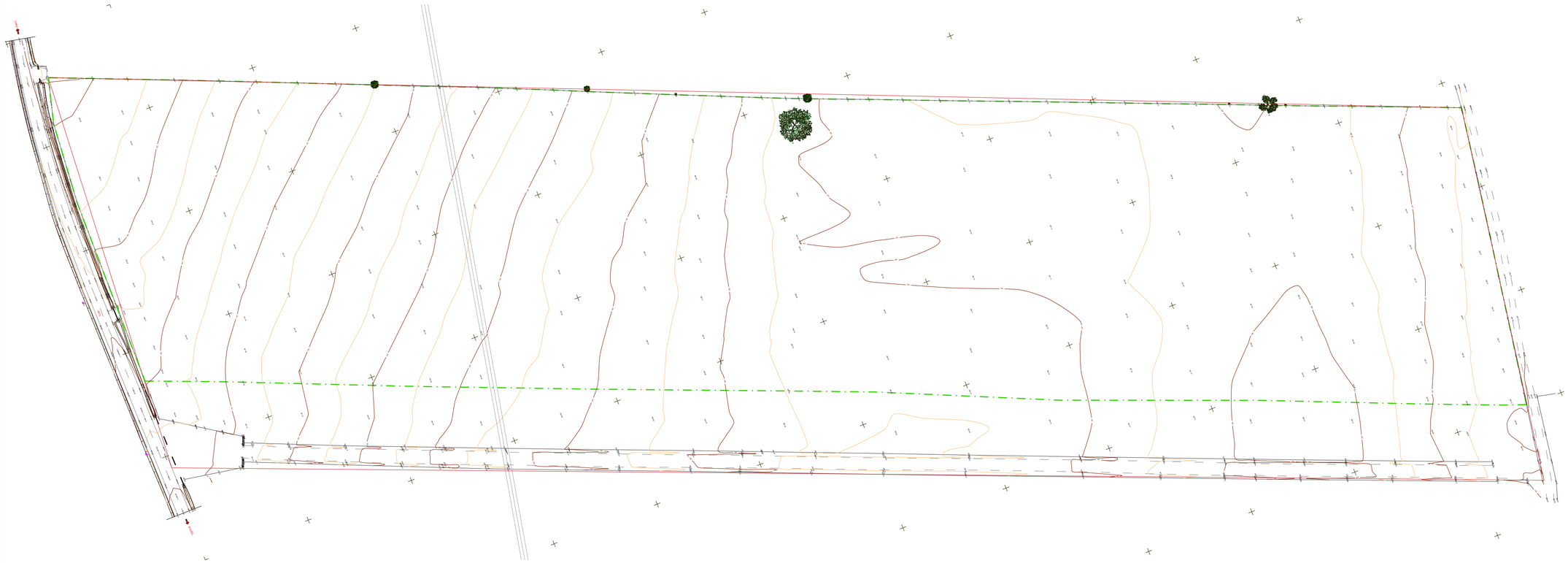

Limite do prédio

Rev.	Prepared	Verified	Approved	Date	Description
0	vb.cs ac	ac	td	2025/01/17	emissão do desenho

RE GA energy

Sousel Biomethane Plant
Unidade de Biometano de Sousel

Project Number			
A01			
Phase			
Licensing			
VB.CS	AC	TD	2024/10/11
Prepared	Verified	Approved	Date

Levantamento Topografico
Planta existente

Author/Partner

elementofinito

A01-EF-LPE-000-00-ARQ-DWG-0001-0

Scale(s) 1:1000

Notes ...

Format	Sheet	Next	Rev.
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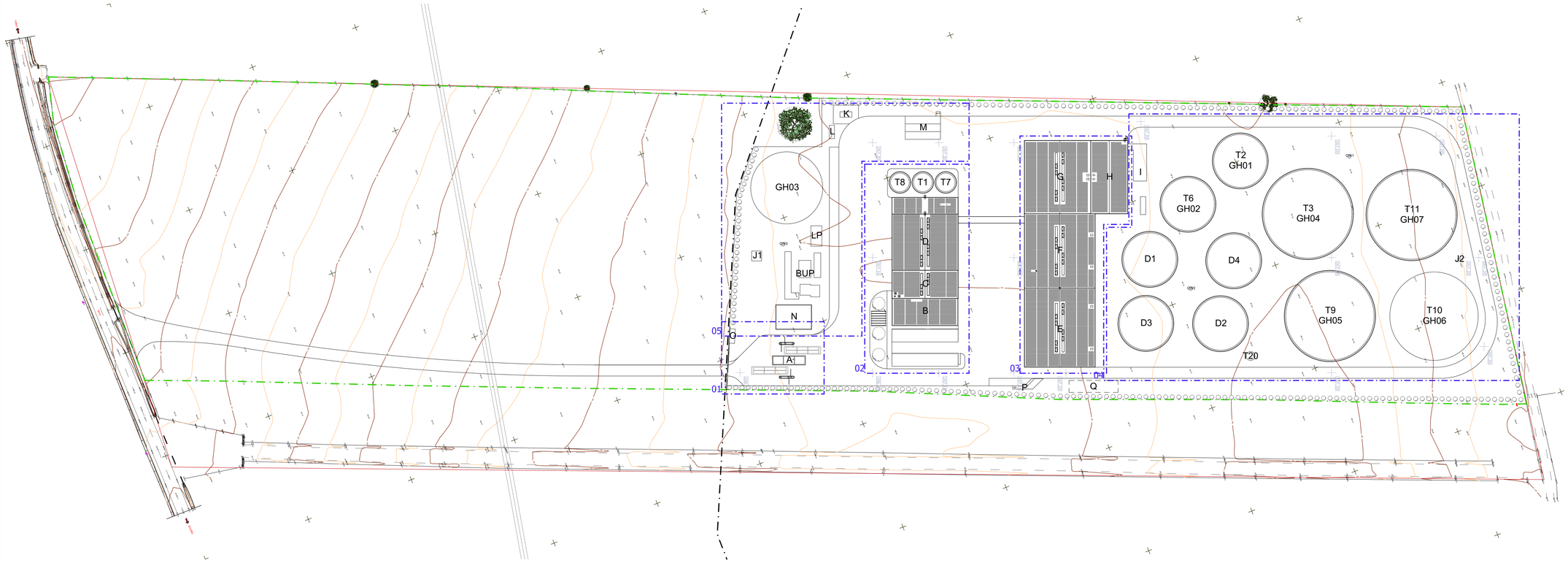

Legenda:

A	gatehouse portaria
B	administration building and control room edifício administrativo e sala de controlo
C	maintenance and laboratory building edifício de manutenção e laboratório
D	liquids reception and dispatch hall edifício de receção e expedição de líquidos
E	solids reception hall edifício de receção e expedição de sólidos
F	machine hall and heat exchangers sala de máquinas e permutadores de calor
G	solid digestate storage and dispatch building edifício de armazenamento e expedição de digerido sólido
H	dewatering room edifício de separação sólido-líquido
I	desodorization system sistema de desodorização
K	bioCNG compressor compressor de bioGNC
L	boiler caldeira
M	bioCNG trucks filling station estação de enchimento de camiões de bioGNC
N	water tanks reservatórios de água
O	sectioning station posto de seccionamento
P	fuel tank and pump depósito e bomba de combustível
Q	underground water reuse tanks reservatórios enterrados de água
BUP	biogas upgrading unit unidade de purificação de biogás
LP	scrubber equipamento de limpeza biogás
CW1 - CW3	condensate well poços de condensados
D1 - D4	anaerobic digester digestores anaeróbios
GH03	gas holder gasómetro
J1 - J2	flare tochas
T1	slurry reception tank tanque de receção de chorume
T2 | GH01	slurry storage tank tanque de armazenamento chorume
T3 | GH04	digestate storage tank tanque de armazenamento de digerido
T4 - T5	buffer tank tanque buffer
T6 | GH02	liquid digestate storage tank tanque de armazenamento de digerido líquido
T7	liquid digestate dispatch tank tanque de expedição de digerido líquido
T8	digestate dispatch tank tanque de expedição de digerido bruto
T9 | GH05 T10 | GH06	digestate storage tank tanques de armazenamento de digerido
T11 | GH07	containment tank tanque de contenção
T20	iron chloride storage tank tanque de armazenamento de cloreto de ferro
	Limite da RAN
	Limite do prédio

Rev.	Prepared	Verified	Approved	Date	Description
H	vb.cs.ac	ac	td	2025/04/02	alteração caleira T20, reservatório enterrado de água, legenda
G	vb.cs.ac	ac	td	2025/03/28	alteração do acesso à unidade
F	vb.cs.ac	ac	td	2025/03/21	alteração de layout de tanques
E	vb.cs.ac	ac	td	2025/03/05	integração de caldeira
D	vb.cs.ac	ac	td	2025/02/27	nova flare
0	vb.cs.ac	ac	td	2025/01/17	emissão do desenho

REGA energy

Sousel Biomethane Plant
Unidade de Biometano de Sousel

Project Number: A01

Phase: Licensing

VB.CS	AC	TD	2024/10/11
Prepared	Verified	Approved	Date

Author/Partner: elementofinito

Levantamento Topografico
Planta Implantacao

A01-EF-LPE-000-00-ARQ-DWG-0002-H

Scale(s): 1:1000

Notes: ...

Format	Sheet	Next	Rev.
A1	1	-	H

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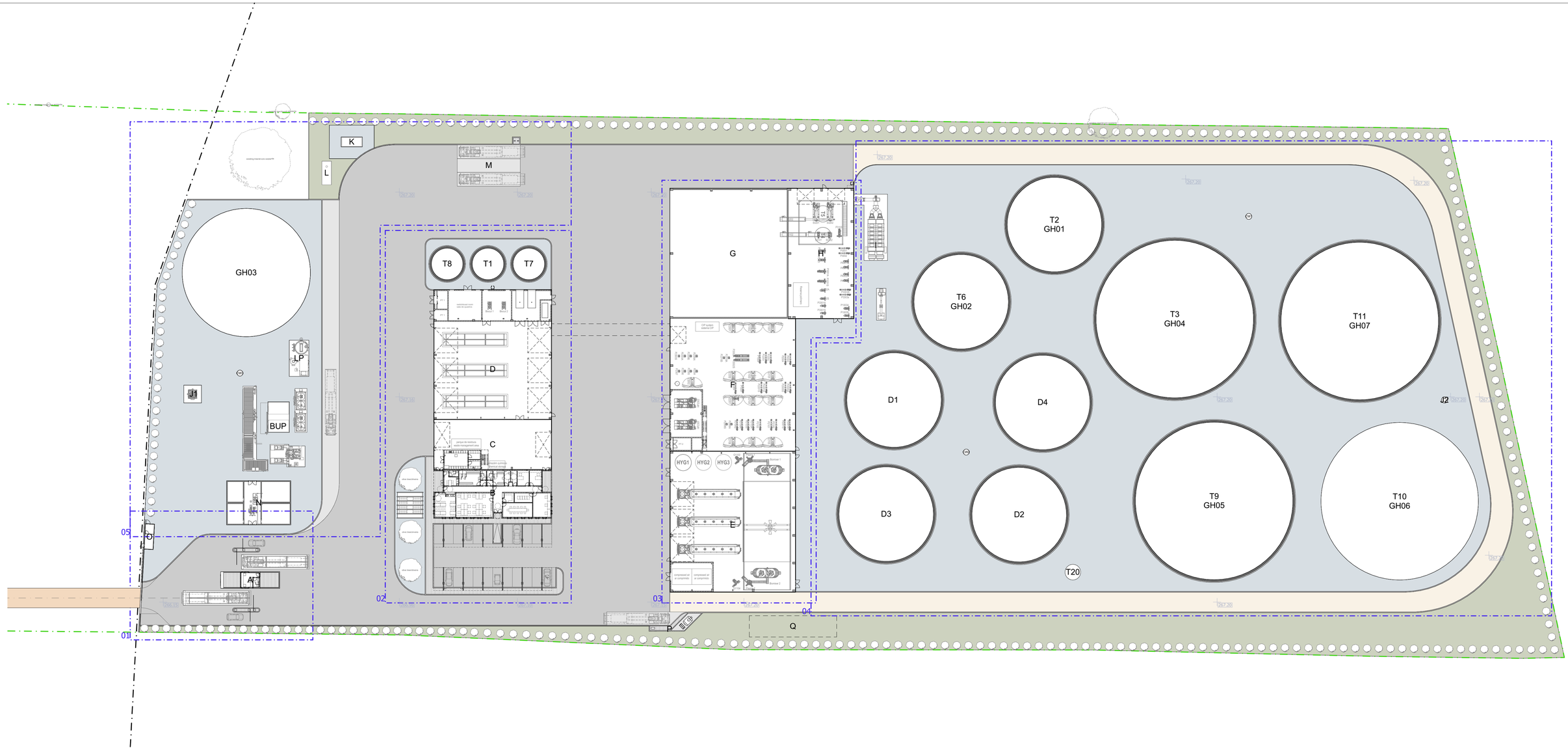

Legenda:

A	gatehouse portaria	LP	scrubber equipamento de limpeza biogás
B	administration building and control room edifício administrativo e sala de controlo	CW1 - CW3	condensate well poços de condensados
C	maintenance and laboratory building edifício de manutenção e laboratório	D1 - D4	anaerobic digester digestores anaeróbios
D	liquids reception and dispatch hall edifício de receção e expedição de líquidos	GH03	gas holder gasómetro
E	solids reception hall edifício de receção e expedição de sólidos	J1 - J2	flare tochas
F	machine hall and heat exchangers sala de máquinas e permutadores de calor	T1	slurry reception tank tanque de receção de chorume
G	solid digestate storage and dispatch building edifício de armazenamento e expedição de digerido sólido	T2 | GH01	slurry storage tank tanque de armazenamento chorume
H	dewatering room edifício de separação sólido-líquido	T3 | GH04	digestate storage tank tanque de armazenamento de digerido
I	desodorization system sistema de desodorização	T4 - T5	buffer tank tanque buffer
K	bioCNG compressor compressor de bioGNC	T6 | GH02	liquid digestate storage tank tanque de armazenamento de digerido líquido
L	boiler caldeira	T7	liquid digestate dispatch tank tanque de expedição de digerido líquido
M	bioCNG trucks filling station estação de enchimento de camiões de bioGNC	T8	digestate dispatch tank tanque de expedição de digerido bruto
N	water tanks reservatórios de água	T9 | GH05 T10 | GH06	digestate storage tank tanques de armazenamento de digerido
O	sectioning station posto de seccionamento	T11 | GH07	containment tank tanque de contenção
P	fuel tank and pump depósito e bomba de combustível	T20	iron chloride storage tank tanque de armazenamento de cloreto de ferro
Q	undergound water reuse tanks reservatórios enterrados de água		Limite da RAN
BUP	biogas upgrading unit unidade de purificação de biogás		Limite do prédio

Rev.	Prepared	Verified	Approved	Date	Description
I	vb.cs.ac	ac	td	2025/05/02	alteração da cor do material pavimento em macadame
H	vb.cs.ac	ac	td	2025/04/07	legenda na sala de quadros_PT1 e PT2
G	vb.cs.ac	ac	td	2025/04/02	alteração de acesso à Unidade e caleira T20, reservatório enterrado de água, legenda
F	vb.cs.ac	ac	td	2025/03/21	alteração de layout de tanques
E	vb.cs.ac	ac	td	2025/03/05	integração da caldeira
0	vb.cs.ac	ac	td	2025/01/17	emissão do desenho

REGA energy

Sousel Biomethane Plant
Unidade de Biometano de Sousel

Project Number			
A01			
Phase			
Licensing			
VB.CS	AC	TD	2024/10/11
Prepared	Verified	Approved	Date

Author/Partner

elementofinito

Gerais
Layout

A01-EF-LPE-000-00-ARQ-DWG-0101-I

Scale(s) 1:500

Notes	Format	Sheet	Next	Rev.
...	A1	1	-	I

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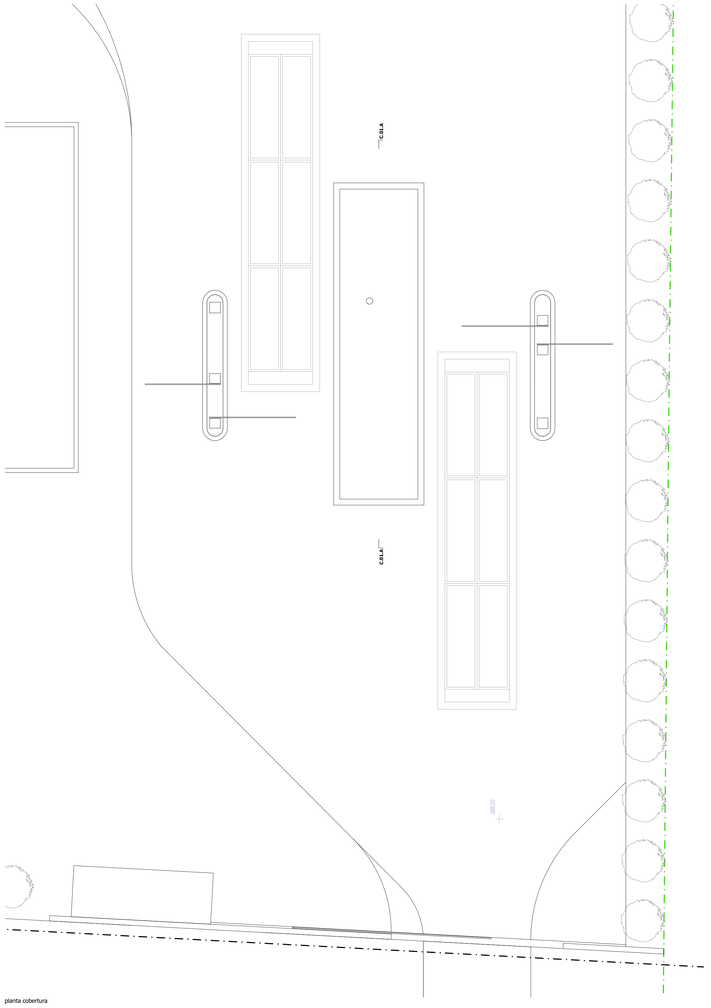
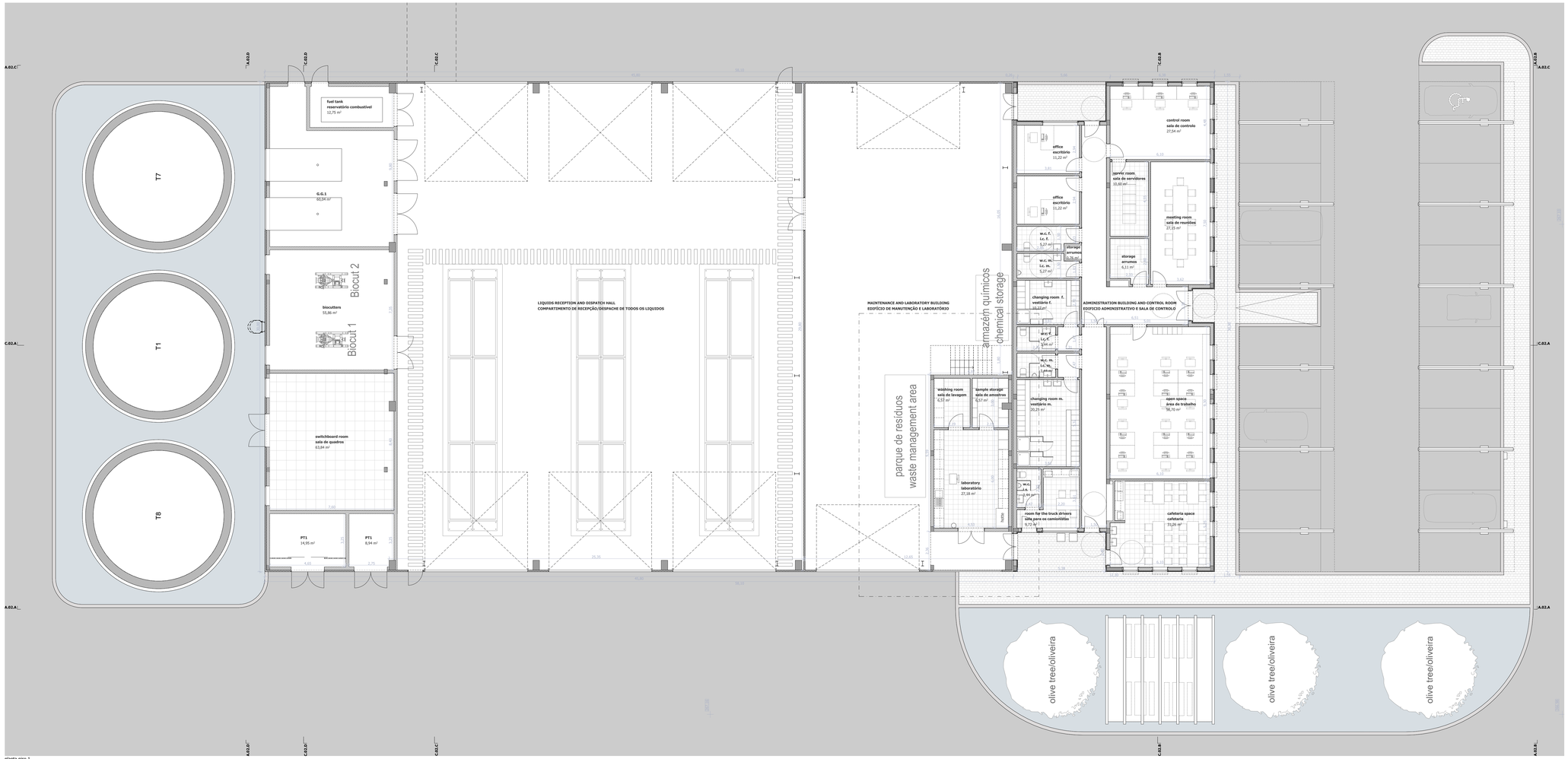
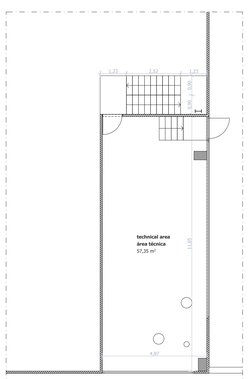

C.01.A
C.01.A
A.01.A
A.01.A
A



planta piso 1



planta piso 2

Rev.	Prepared	Verified	Approved	Date	Description
D	vb.cs.ac	ac	td	2025/04/02	alteração grupo gerador
C	vb.cs.ac	ac	td	2025/03/27	alteração de legendas
B	vb.cs.ac	ac	td	2025/02/25	opção D
A	vb.cs.ac	ac	td	2025/02/07	novas grelhas de ventilação
0	vb.cs.ac	ac	td	2025/01/17	emissão do desenho

REGA energy

Sousel Biomethane Plant
Unidade de Biometano de Sousel

Project Number: A01

Phase: Licensing

VB.CS	AC	TD	2024/10/11
Prepared	Verified	Approved	Date

Author/Partner: elementofinito

Zona 02
Plantas

A01-EF-LPE-000-00-ARQ-DWG-0301-D , Zona 02

Scale(s): 1:100

Notes: —

Format: A0 | Sheet: 1 | Next: - | Rev.: D

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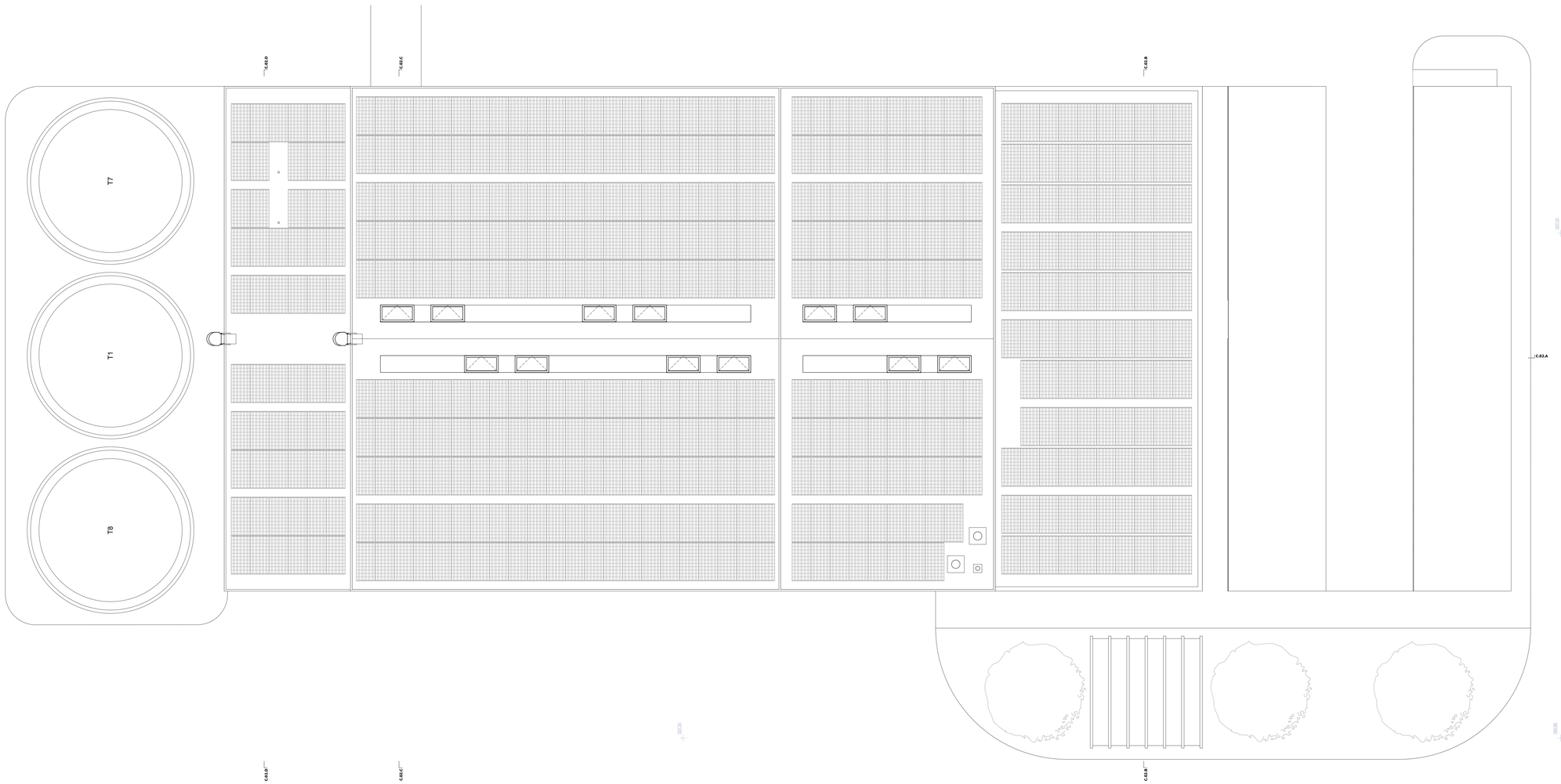

Rev.	Prepared	Verified	Approved	Date	Description
C	vb.cs.ac	ac	td	2025/04/02	alteração grupo gerador
B	vb.cs.ac	ac	td	2025/02/25	opção D
A	vb.cs.ac	ac	td	2025/02/07	saida do sistema de escape do gerador
0	vb.cs.ac	ac	td	2025/01/17	emissão do desenho

REGA energy

Sousel Biomethane Plant
Unidade de Biometano de Sousel

Project Number: A01

Phase: Licensing

VB.CS	AC	TD	2024/10/11
Prepared	Verified	Approved	Date

Author/Partner: elementofinito

Zona 02
Planta de cobertura

A01-EF-LPE-000-00-ARQ-DWG-0302-C . Zona 02

Scale(s): 1:100

Notes: –

Format	Sheet	Next	Rev.
A0	1	–	C

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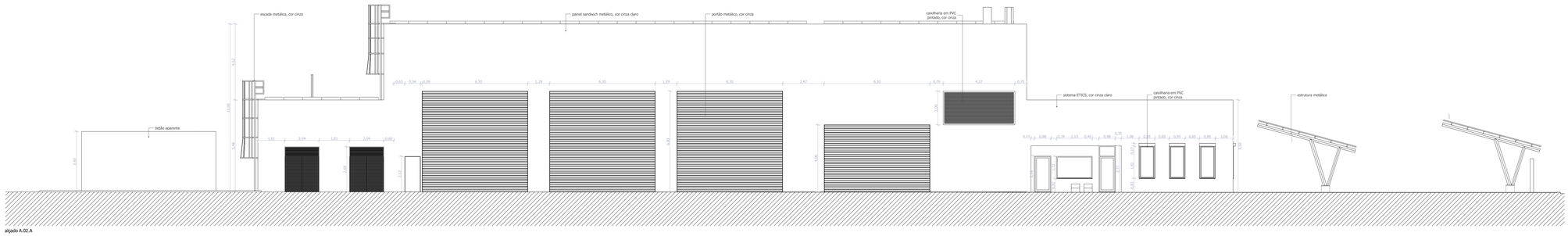
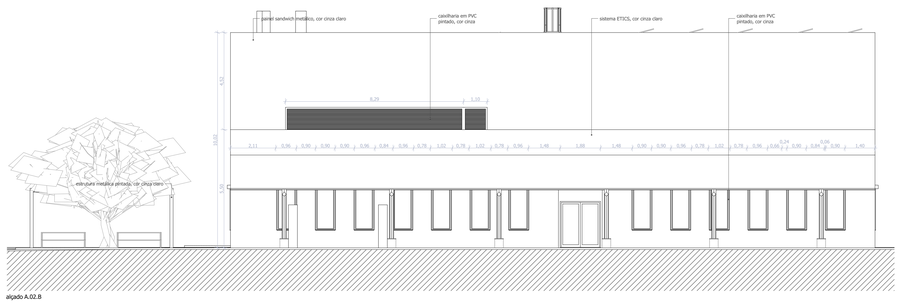
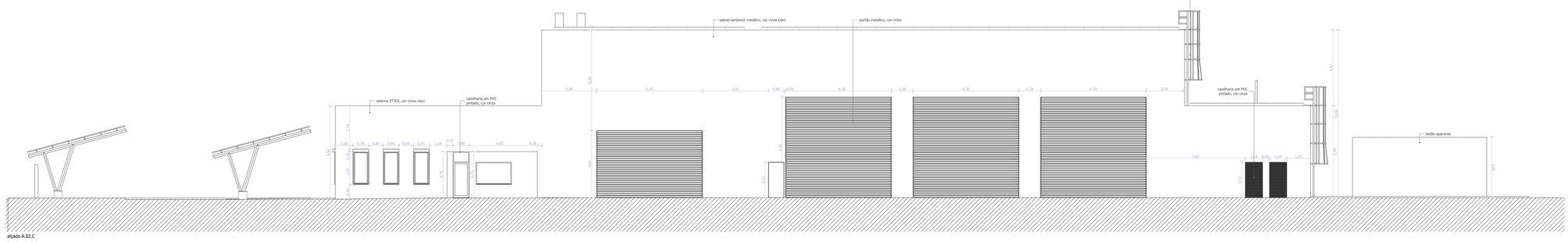


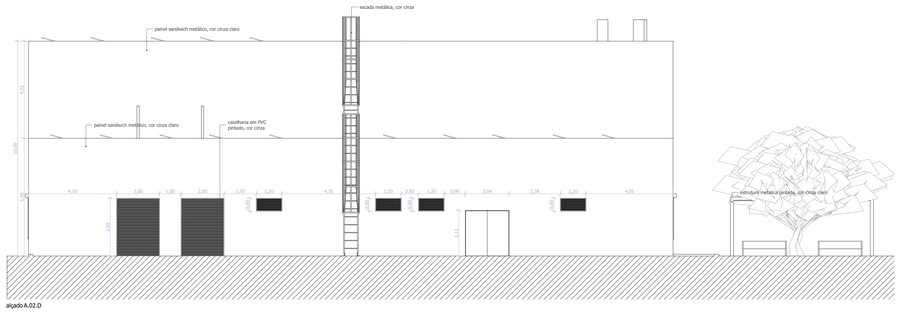
alçado A.02.A



alçado A.02.B



alçado A.02.C



alçado A.02.D

Rev.	Prepared	Verified	Approved	Date	Description
D	vs.ca.ac	ac	td	2025/04/02	alteração grupo gerador
C	vs.ca.ac	ac	td	2025/02/27	opção D
B	vs.ca.ac	ac	td	2025/02/19	ajalgem
A	vs.ca.ac	ac	td	2025/02/07	acabamentos, novas grelhas de ventilação, saída do sistema de escape do gerador
0	vs.ca.ac	ac	td	2025/01/17	emissão do desenho

REGA energy

Sousel Biomethane Plant
Unidade de Biometano de Sousel

Project Number			
A01			
Phase			
Licensing			
VB.CS	AC	TD	2024/10/11
Prepared	Verified	Approved	Date

Zona 02
Alcados

Author/Partner

elementofinito

A01-EF-LPE-000-00-ARQ-DWG-0303-D . Zona 02

Scale(s)
1:100

Notes

Format	Sheet	Next	Rev.
A0	1	-	D

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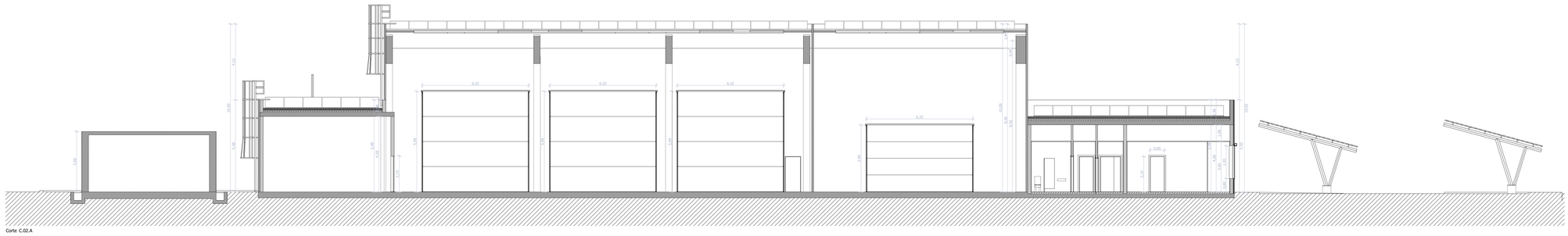
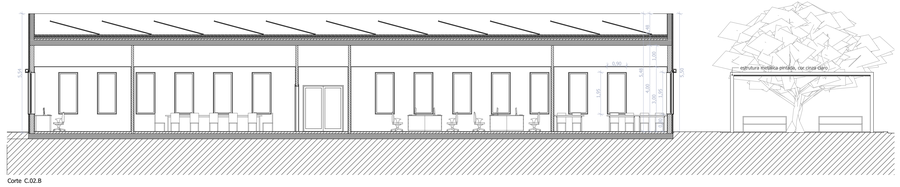
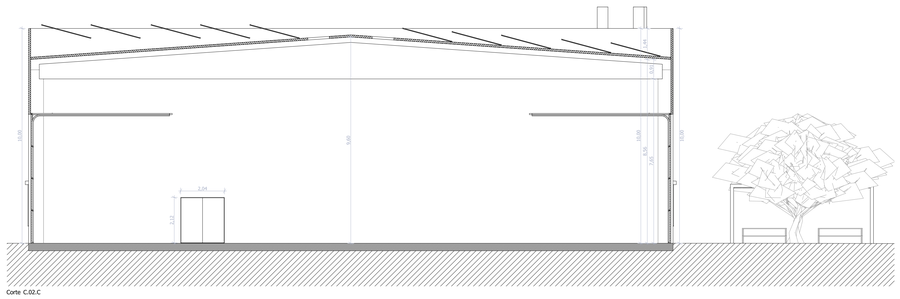


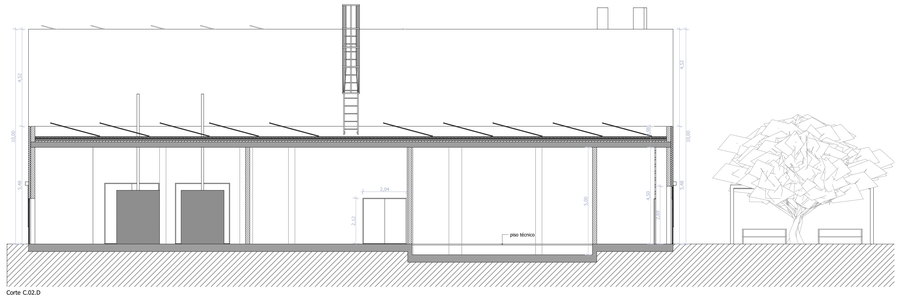
Corte C.02.A



Corte C.02.B



Corte C.02.C



Corte C.02.D

C	vb.cs.ac	ac	td	2025/04/02	alteração grupo gerador
B	vb.cs.ac	ac	td	2025/03/27	opção D
A	vb.cs.ac	ac	td	2025/02/07	colagem
0	vb.cs.ac	ac	td	2025/01/17	emissão do desenho
Rev.	Prepared	Verified	Approved	Date	Description

REGA energy

Sousel Biomethane Plant
Unidade de Biometano de Sousel

Project Number: A01	Zona 02 Cortes
Phase: Licensing	
VB.CS / AC / TD / 2024/10/11	
Prepared / Verified / Approved / Date	
Author/Partner: elementofinito	A01-EF-LPE-000-00-ARQ-DWG-0304-C . Zona 02
Notes: ---	Format: A0 / Sheet: 1 / Next: - / Rev.: C
	Scale(s): 1:100

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DESODORIZATION SYSTEM
SISTEMA DE DESODORIZAÇÃO

SOLID DIGESTATE STORAGE AND DISPATCH BUILDING
EDIFÍCIO DE ARMAZENAMENTO E EXPEDIÇÃO DE DGERIDO SÓLIDO
960,50 m²

DEWATERING ROOM
EDIFÍCIO DE SEPARAÇÃO SÓLIDO-LÍQUIDO
556,48 m²

MACHINE HALL AND HEAT EXCHANGERS
SALA DE MÁQUINAS E PERMUTADORES DE CALOR
938,10 m²

SOLIDS RECEPTION HALL
EDIFÍCIO DE RECEÇÃO DE SÓLIDOS
1 134,31 m²

T5
T4
Reserva polímero
CIP system
sistema CIP
Biomixer 1
Biomixer 2
Premix 1
Premix 2
HYG3
HYG2
HYG1
HP2301
HP2302
7,90 m²
93,64 m²
PT2
15,98 m²
compressed air
ar comprimido
compressed air
ar comprimido
storage
arrumos
15,35 m²
switchboard room
sala de quadros
64,51 m²
guarda amovível
guarda amovível
guarda amovível

planta piso 1

planta piso 2

Rev.	Prepared	Verified	Approved	Date	Description
F	vb.cs.ac	ac	td	2025/05/23	alteração da área de visualização
E	vb.cs.ac	ac	td	2025/05/02	saída de emergência na área de receção
D	vb.cs.ac	ac	td	2025/03/21	alteração PT2, ar comprimido e equipamentos REGA
C	vb.cs.ac	ac	td	2025/02/25	opção D
B	vb.cs.ac	ac	td	2025/02/19	atualização do layout dos equipamentos
0	vb.cs.ac	ac	td	2025/01/17	emissão do desenho

REGA energy

Sousel Biomethane Plant
Unidade de Biometano de Sousel

Project Number: A01
Phase: Licensing

VB.CS	AC	TD	2024/10/11
Prepared	Verified	Approved	Date

Author/Partner: elementofinito

Zona 03
Plantas

A01-EF-LPE-000-00-ARQ-DWG-0401-F , Zona 03

Scale(s): 1:100

Notes

Format: A0 | Sheet: 1 | Next: - | Rev.: F

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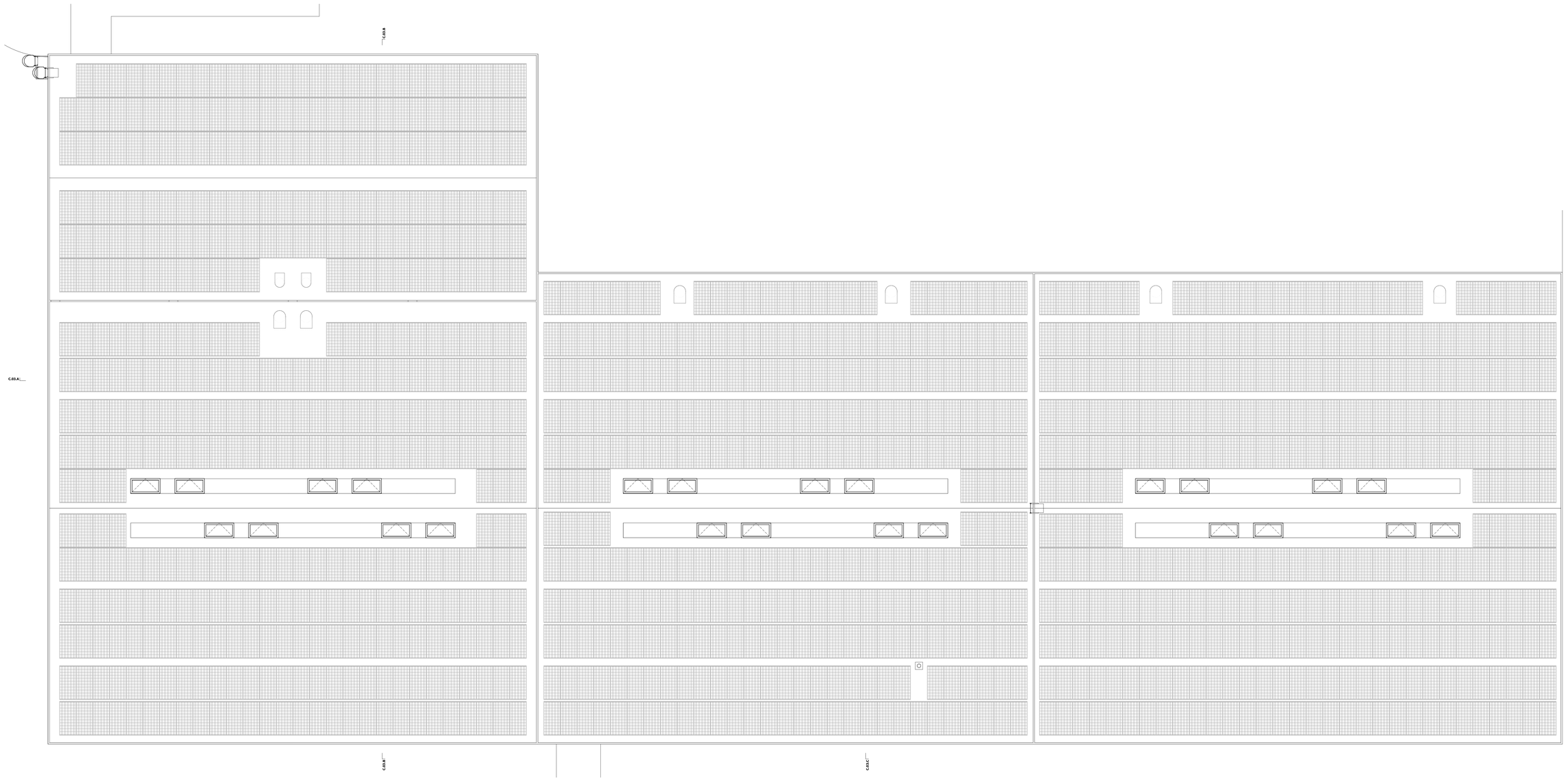

Rev.	Prepared	Verified	Approved	Date	Description
D	vb.cs.ac		ac	td	2025/05/23	alteração da área de visualização
C	vb.cs.ac		ac	td	2025/03/21	integração de chaminé
B	vb.cs.ac		ac	td	2025/02/25	opção D
A	vb.cs.ac		ac	td	2025/02/19	integração de sistemas de exaustão na cobertura e para-raios
0	vb.cs.ac		ac	td	2025/01/17	emissão do desenho

REGA energy

Sousel Biomethane Plant
Unidade de Biometano de Sousel

Project Number: A01

Phase: Licensing

VB.CS	AC	TD	2024/10/11
Prepared	Verified	Approved	Date

Author/Partner: elementofinito

Zona 03
Planta de cobertura

A01-EF-LPE-000-00-ARQ-DWG-0402-D , Zona 03

Scale(s): 1:100

Notes: —

Format: A0 | Sheet: 1 | Next: - | Rev.: D

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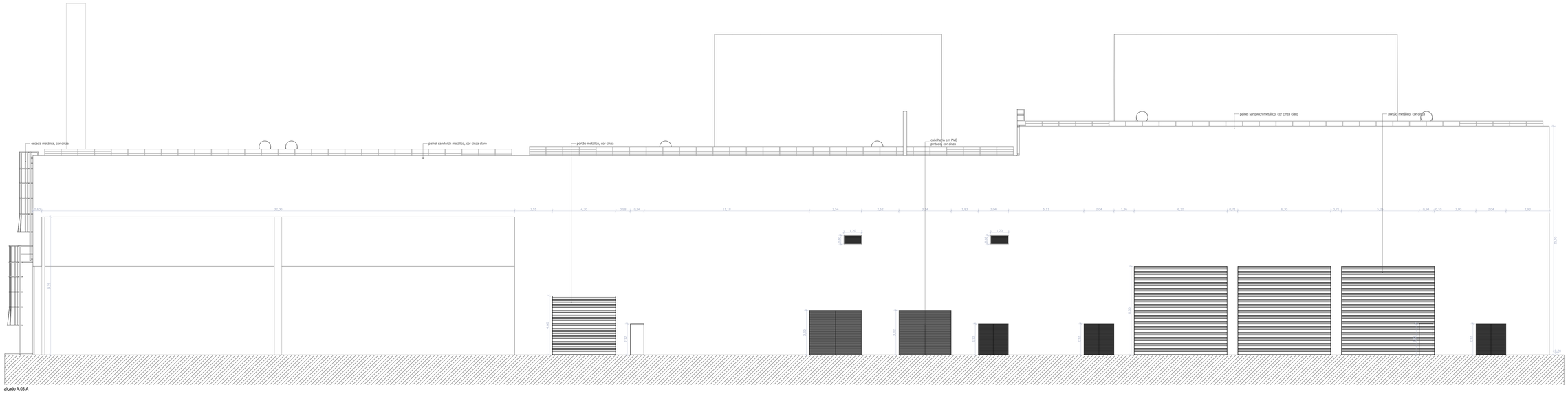
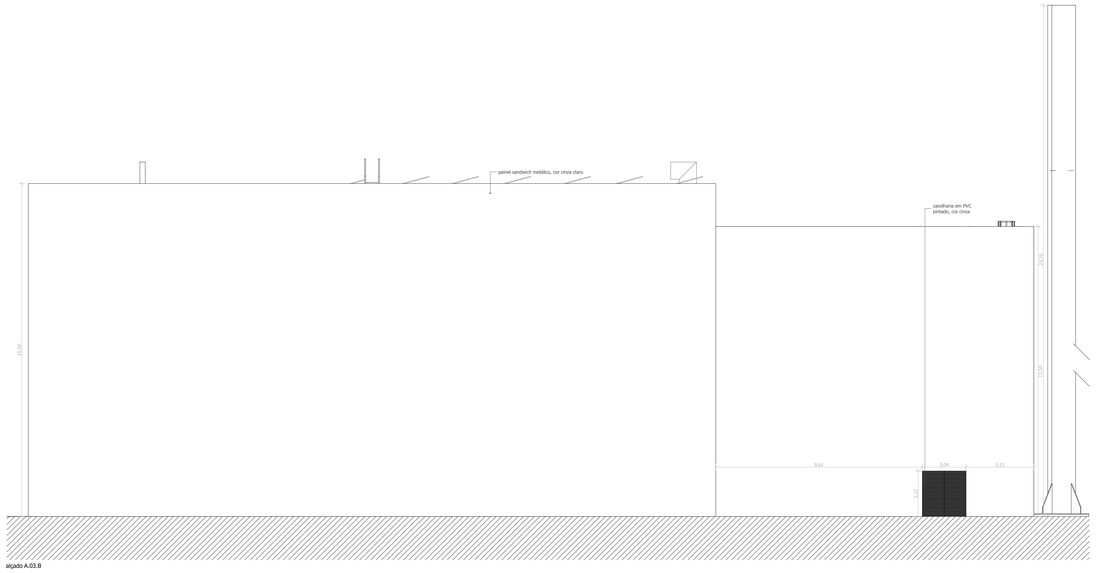


alçado A.03.A



alçado A.03.B

Rev.	Prepared	Verified	Approved	Date	Description
F	vb.cs.ac	ac	td	2025/05/23	alteração da altura das chaminés
E	vb.cs.ac	ac	td	2025/05/02	saída de emérgencia na área de receção
D	vb.cs.ac	ac	td	2025/03/27	alteração PT2
C	vb.cs.ac	ac	td	2025/03/27	opção D
B	vb.cs.ac	ac	td	2025/02/19	integração de sistemas de exaustão na cobertura, cotagem
0	vb.cs.ac	ac	td	2025/01/17	emissão do desenho

REGA energy

Sousel Biomethane Plant
Unidade de Biometano de Sousel

Project Number			
A01			
Phase			
Licensing			
VB.CS	AC	TD	2024/10/11
Prepared	Verified	Approved	Date

Zona 03
Alcados

Author/Partner
elementofinito

A01-EF-LPE-000-00-ARQ-DWG-0403-F . Zona 03

Scale(s)
1:100

Notes	Format	Sheet	Next	Rev.
-	A0	1	-	F

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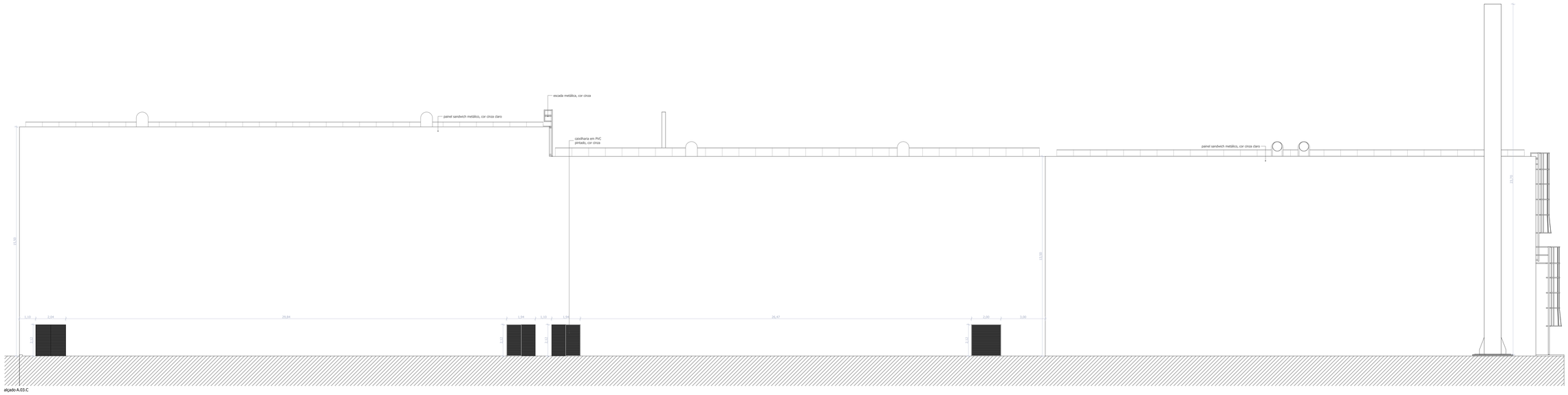
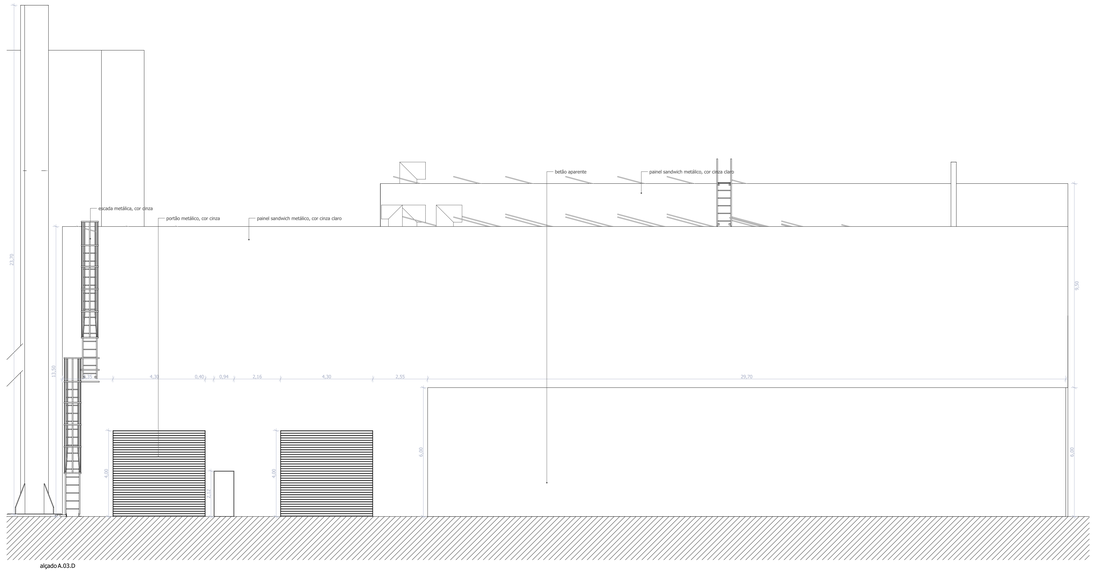


alçado A.03.C



alçado A.03.D

Rev.	Prepared	Verified	Approved	Date	Description
D	vb.cs.ac	ac	td	2025/05/23	alteraração da altura das chaminés
C	vb.cs.ac	ac	td	2025/02/27	opção D
B	vb.cs.ac	ac	td	2025/02/19	integração de sistemas de exaustão na cobertura, cotagem
A	vb.cs.ac	ac	td	2025/02/07	acabamentos, novas grelhas de ventilação
0	vb.cs.ac	ac	td	2025/01/17	emissão do desenho

REGA energy

Sousel Biomethane Plant
Unidade de Biometano de Sousel

Project Number			
A01			
Phase			
Licensing			
VB.CS	AC	TD	2024/10/11
Prepared	Verified	Approved	Date

Zona 03
Alcados

Author/Partner
elementofinito

A01-EF-LPE-000-00-ARQ-DWG-0404-D. Zona 03

Scale(s)
1:100

Notes

Format	Sheet	Next	Rev.
A0	1	-	D

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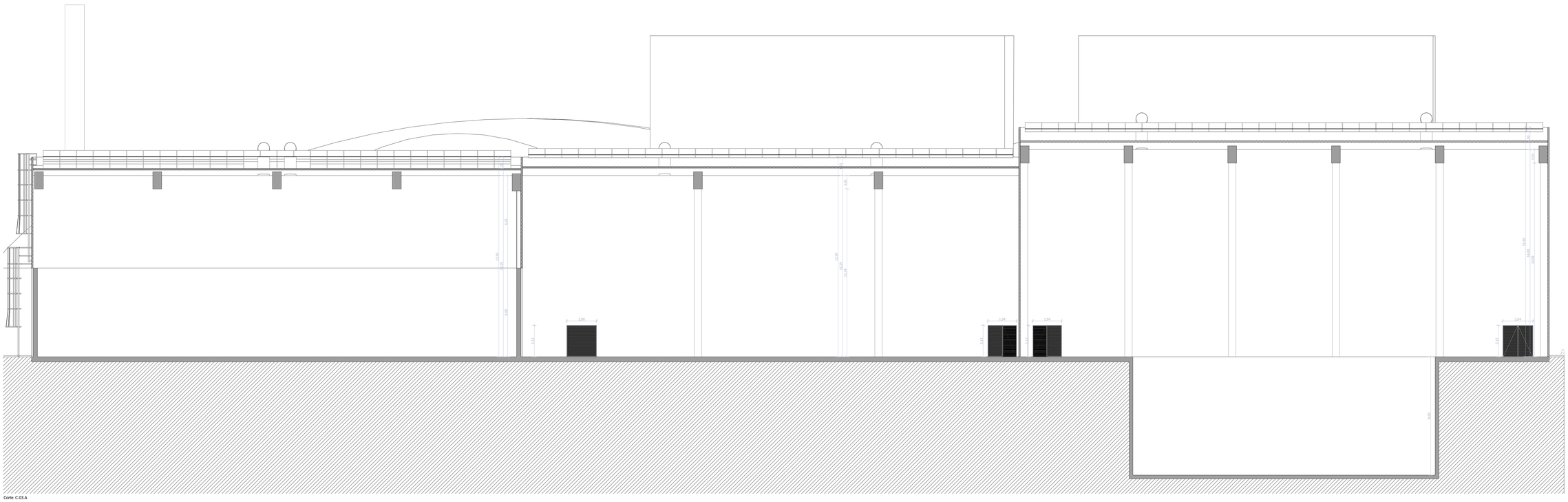
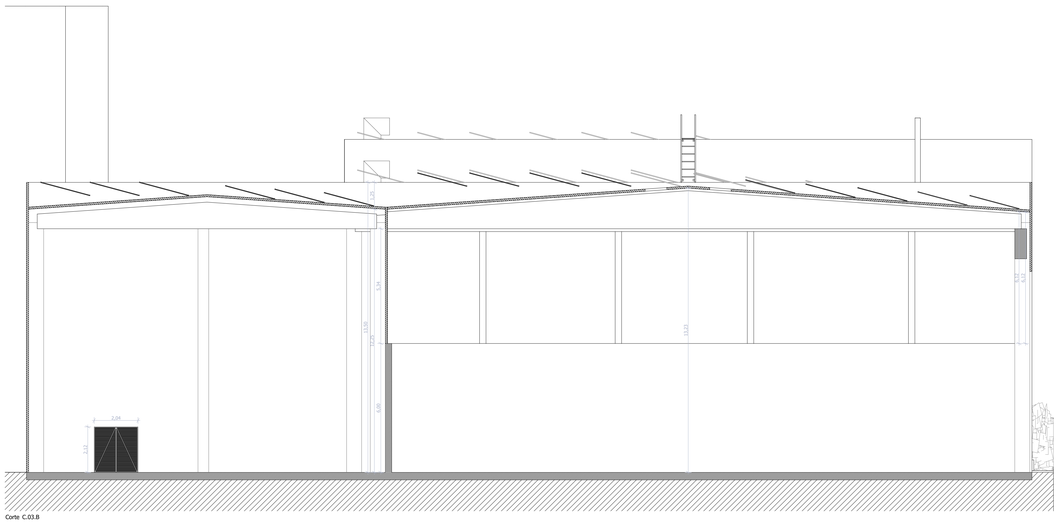
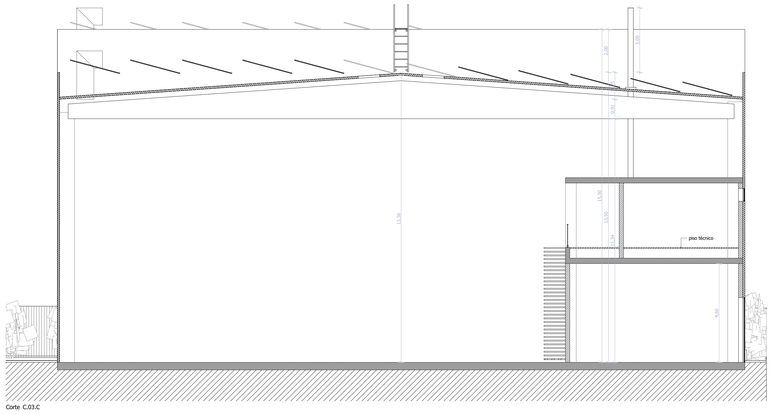


Corte C.03.A



Corte C.03.B



Corte C.03.C

Rev.	Prepared	Verified	Approved	Date	Description
E	vb.cs.ac	ac	td	2025/05/23	alteração da altura das chaminés
D	vb.cs.ac	ac	td	2025/03/27	alteração PT2
C	vb.cs.ac	ac	td	2025/02/27	opção D
B	vb.cs.ac	ac	td	2025/02/19	integração de sistemas de exaustão na cobertura
A	vb.cs.ac	ac	td	2025/02/07	aumento da profundidade do fosso
0	vb.cs.ac	ac	td	2025/01/17	emissão do desenho

REGA energy

Sousel Biomethane Plant
Unidade de Biometano de Sousel

Project Number			
A01			
Phase			
Licensing			
VB.CS	AC	TD	2024/10/11
Prepared	Verified	Approved	Date

Zona 03
Cortes

Author/Partner

elementofinito

A01-EF-LPE-000-00-ARQ-DWG-0405-E , Zona 03

Scale(s)
1:100

Notes	Format	Sheet	Next	Rev.
-	A0	1	-	E

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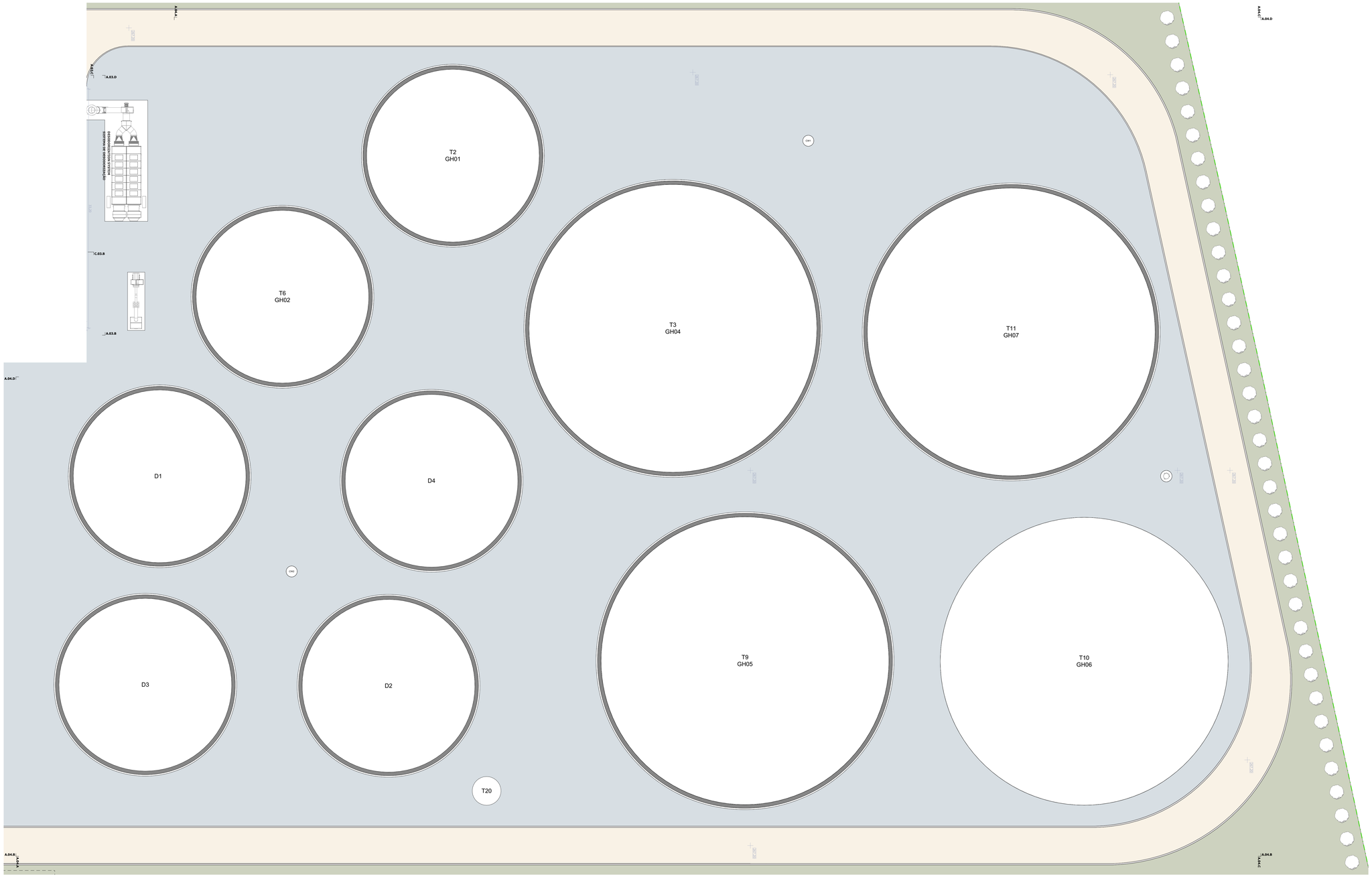

Rev.	Prepared	Verified	Approved	Date	Description
G	vb.cs.ac	ac	td	2025/05/23	alteração da área de visualização
F	vb.cs.ac	ac	td	2025/04/02	alteração layout tanques
E	vb.cs.ac	ac	td	2025/03/21	alteração layout tanques
D	vb.cs.ac	ac	td	2025/02/27	nova flare
C	vb.cs.ac	ac	td	2025/02/25	opção D
0	vb.cs.ac	ac	td	2025/01/17	emissão do desenho

REGA energy

Sousel Biomethane Plant
Unidade de Biometano de Sousel

Project Number: A01

Phase: Licensing

VB.CS	AC	TD	2024/10/11
Prepared	Verified	Approved	Date

Author/Partner: elementofinito

Zona 04
Planta

A01-EF-LPE-000-00-ARQ-DWG-0501-G , Zona 04

Scale(s): 1:200

Notes: ---

Format: A0 | Sheet: 1 | Next: - | Rev.: G

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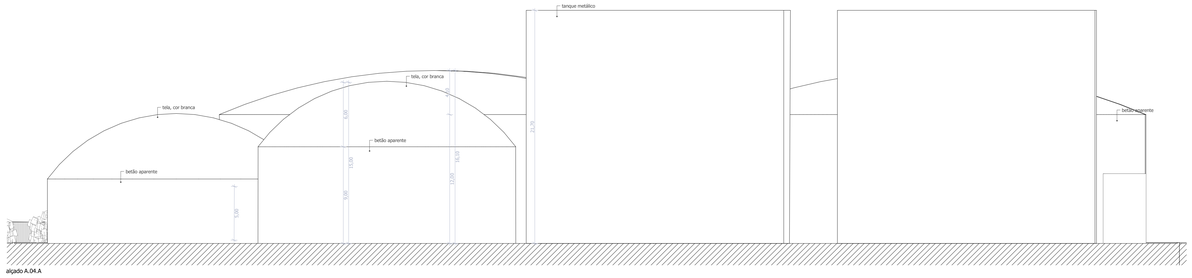
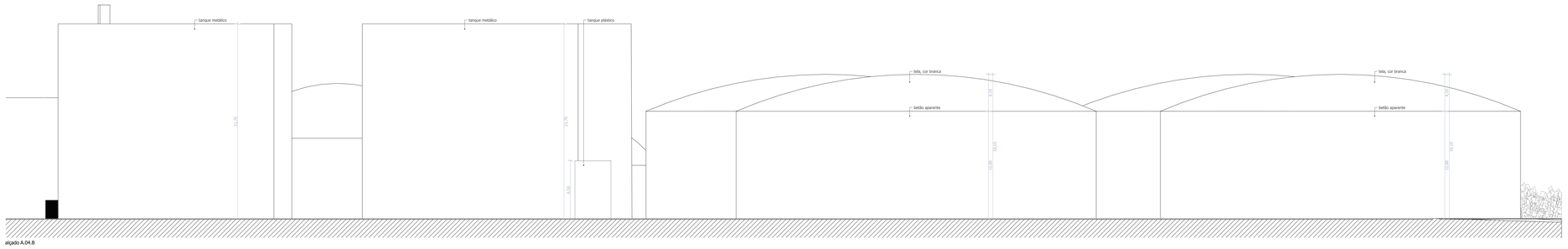
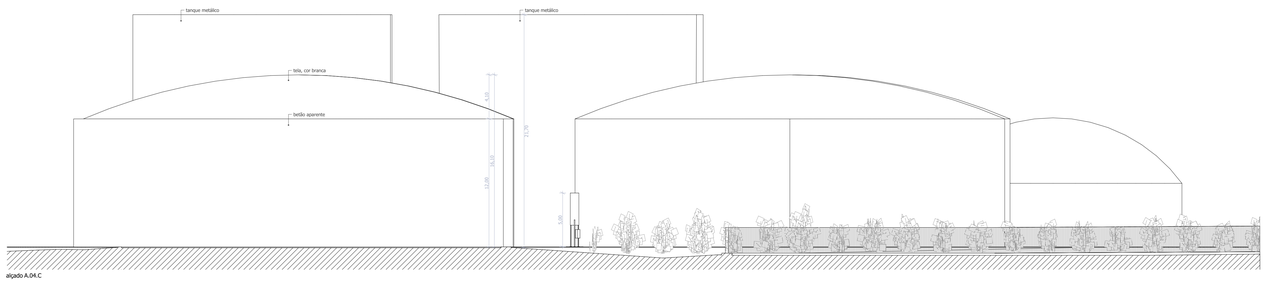


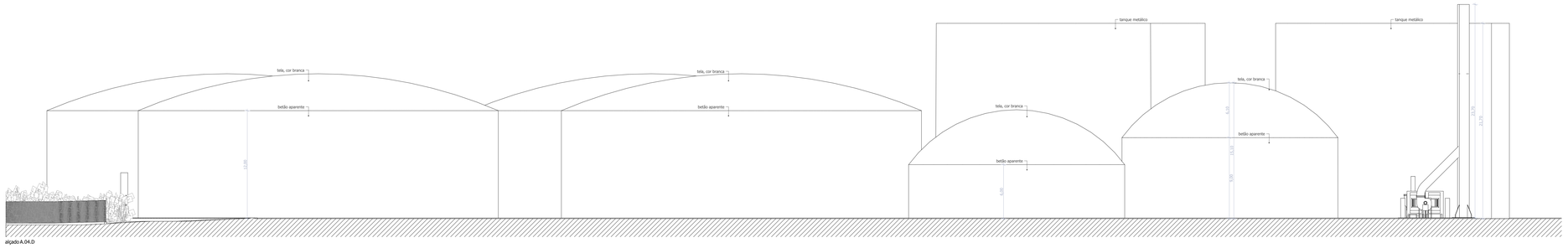
alçado A.04.A



alçado A.04.B



alçado A.04.C



alçado A.04.D

Rev.	Prepared	Verified	Approved	Date	Description
E	vb.cs.ac	ac	td	2025/05/23	alteraração da altura das chaminés
D	vb.cs.ac	ac	td	2025/03/27	alteração layout tanques
C	vb.cs.ac	ac	td	2025/02/27	opção D
B	vb.cs.ac	ac	td	2025/02/19	cotagem, legendas
A	vb.cs.ac	ac	td	2025/02/07	acabamentos, colocação dos para-raios
0	vb.cs.ac	ac	td	2025/01/17	emissão do desenho

REGA energy

Sousel Biomethane Plant
Unidade de Biometano de Sousel

Project Number			
A01			
Phase			
Licensing			
VB.CS	AC	TD	2024/10/11
Prepared	Verified	Approved	Date

Zona 04
Alcados

Author/Partner

elementofinito

A01-EF-LPE-000-00-ARQ-DWG-0502-E , Zona 04

Scale(s): 1:200

Notes: —

Format	Sheet	Next	Rev.
A0	1	-	E

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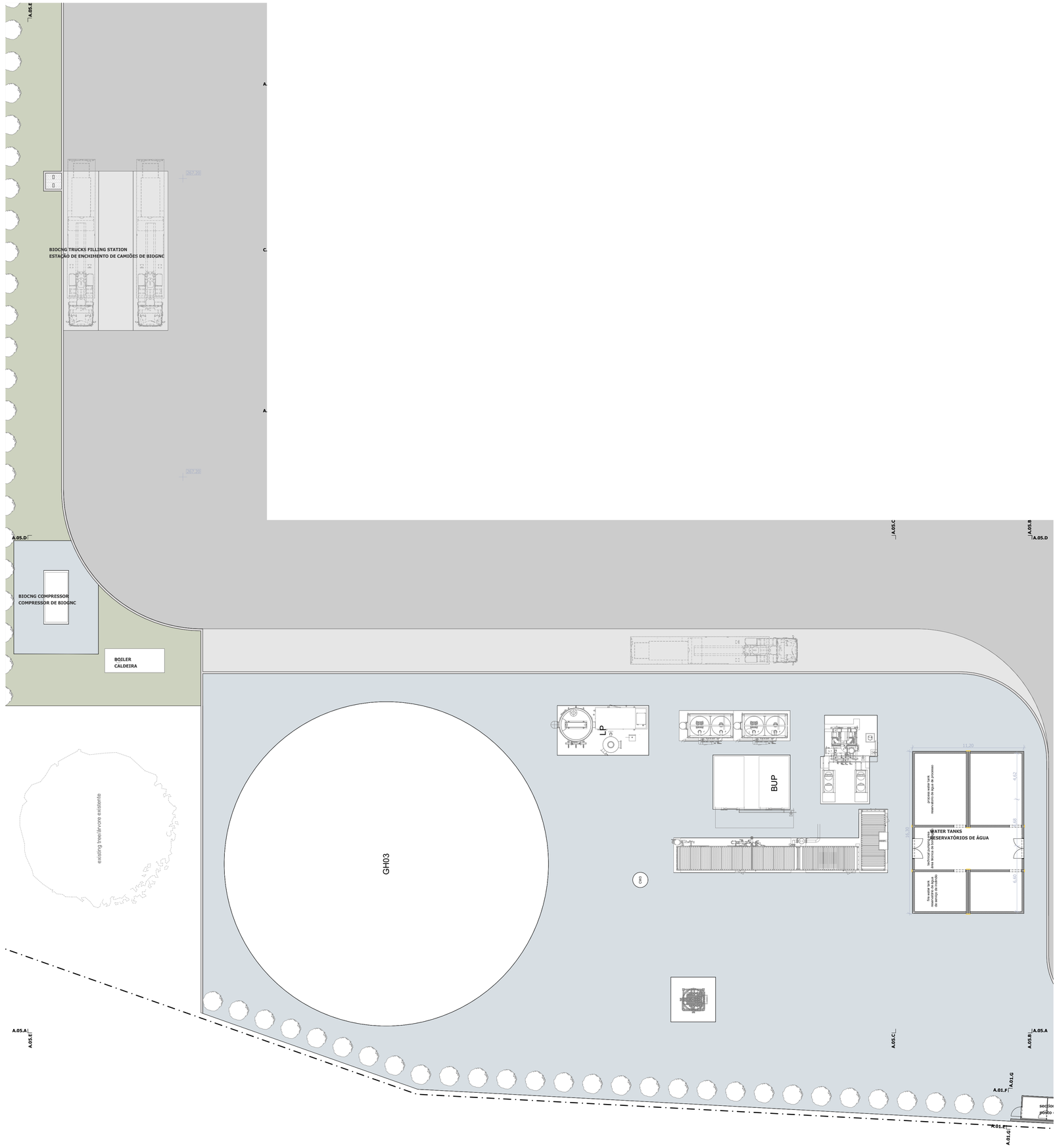

Rev.	Prepared	Verified	Approved	Date	Description
F	vb.cs.ac	ac	td	2025/04/02	alteração de legendas
E	vb.cs.ac	ac	td	2025/03/05	alteração de legendas
D	vb.cs.ac	ac	td	2025/03/05	integração de caldeira
C	vb.cs.ac	ac	td	2025/02/25	opção D
B	vb.cs.ac	ac	td	2025/02/19	legendas
0	vb.cs.ac	ac	td	2025/01/17	emissão do desenho

REGA energy

Sousel Biomethane Plant
Unidade de Biometano de Sousel

Project Number			
A01			
Phase			
Licensing			
VB.CS	AC	TD	2024/10/11
Prepared	Verified	Approved	Date

Author/Partner

elementofinito

Zona 05
Planta

A01-EF-LPE-000-00-ARQ-DWG-0601-F . Zona 05

Scale(s): 1:200

Notes: - -

Format	Sheet	Next	Rev.
A1	1	-	F

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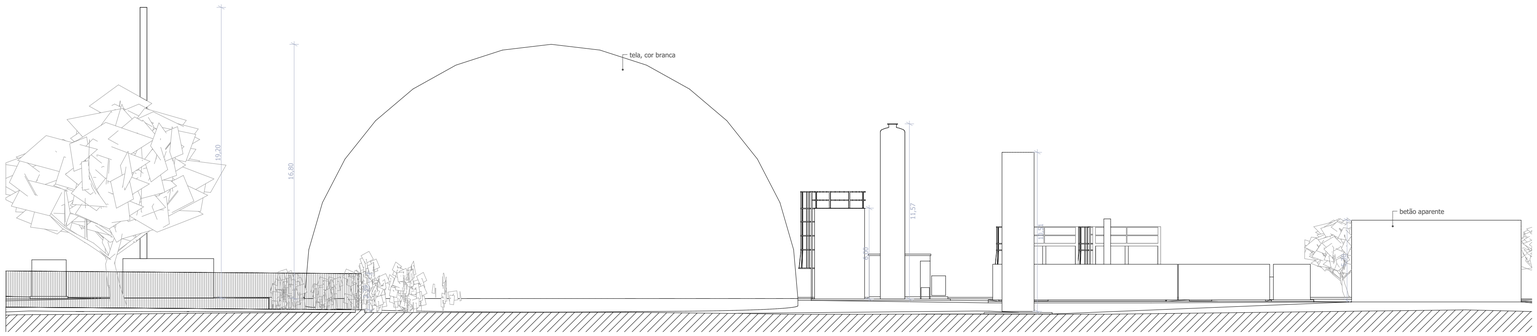
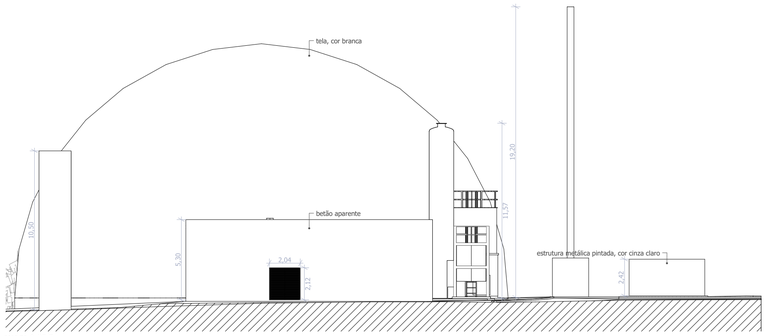
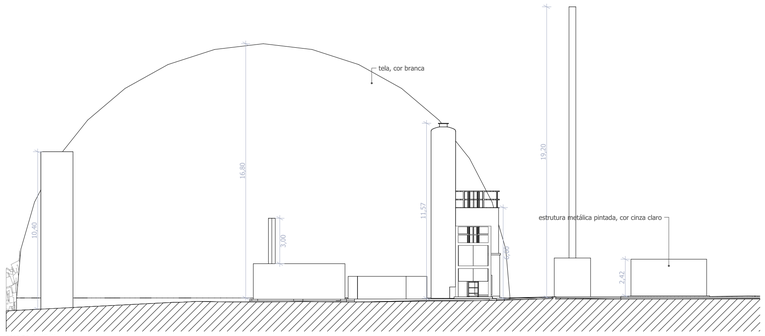


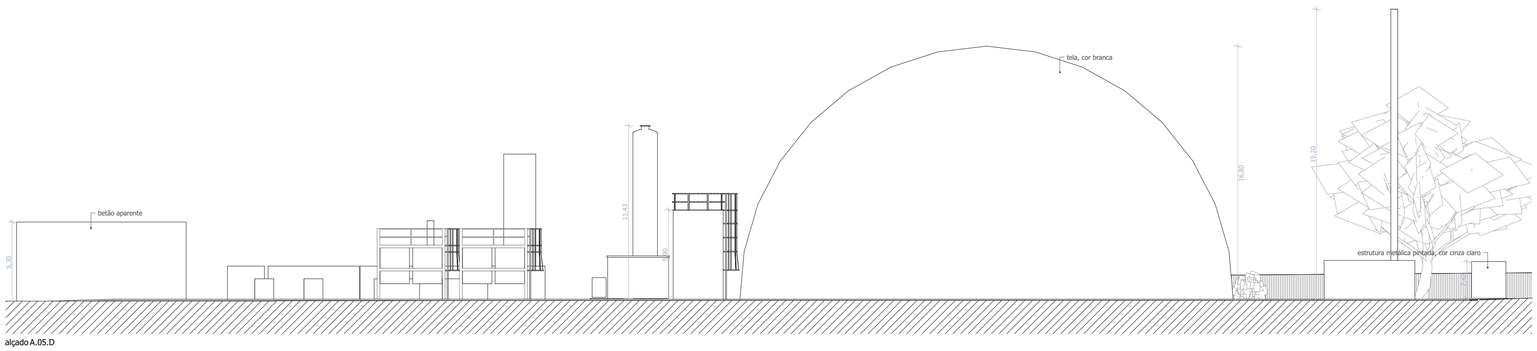
alçado A.05.A



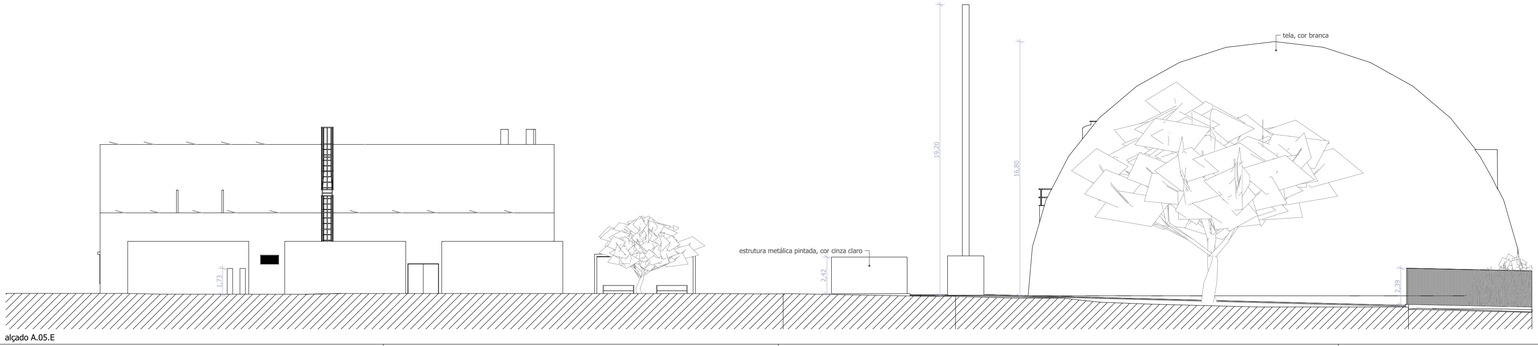
alçado A.05.B



alçado A.05.C



alçado A.05.D



alçado A.05.E

E	vb.cs.ac	ac	td	2025/05/23	alteraração da altura das chaminés
D	vb.cs.ac	ac	td	2025/03/05	integração de caldeira
C	vb.cs.ac	ac	td	2025/02/27	opção D
B	vb.cs.ac	ac	td	2025/02/19	legendas
A	vb.cs.ac	ac	td	2025/02/07	altura dos depositos de água, acabamentos, para-raios
0	vb.cs.ac	ac	td	2025/01/17	emissão do desenho
Rev.	Prepared	Verified	Approved	Date	Description

REGA energy

Sousel Biomethane Plant
Unidade de Biometano de Sousel

Project Number
A01

Phase
Licensing

VB.CS	AC	TD	2024/10/11
Prepared	Verified	Approved	Date

Author/Partner
elementofinito

Zona 05
Alcados

A01-EF-LPE-000-00-ARQ-DWG-0602-E . Zona 05

Scale(s)
1:200

Notes
...

Format	Sheet	Next	Rev.
A1	1	-	E

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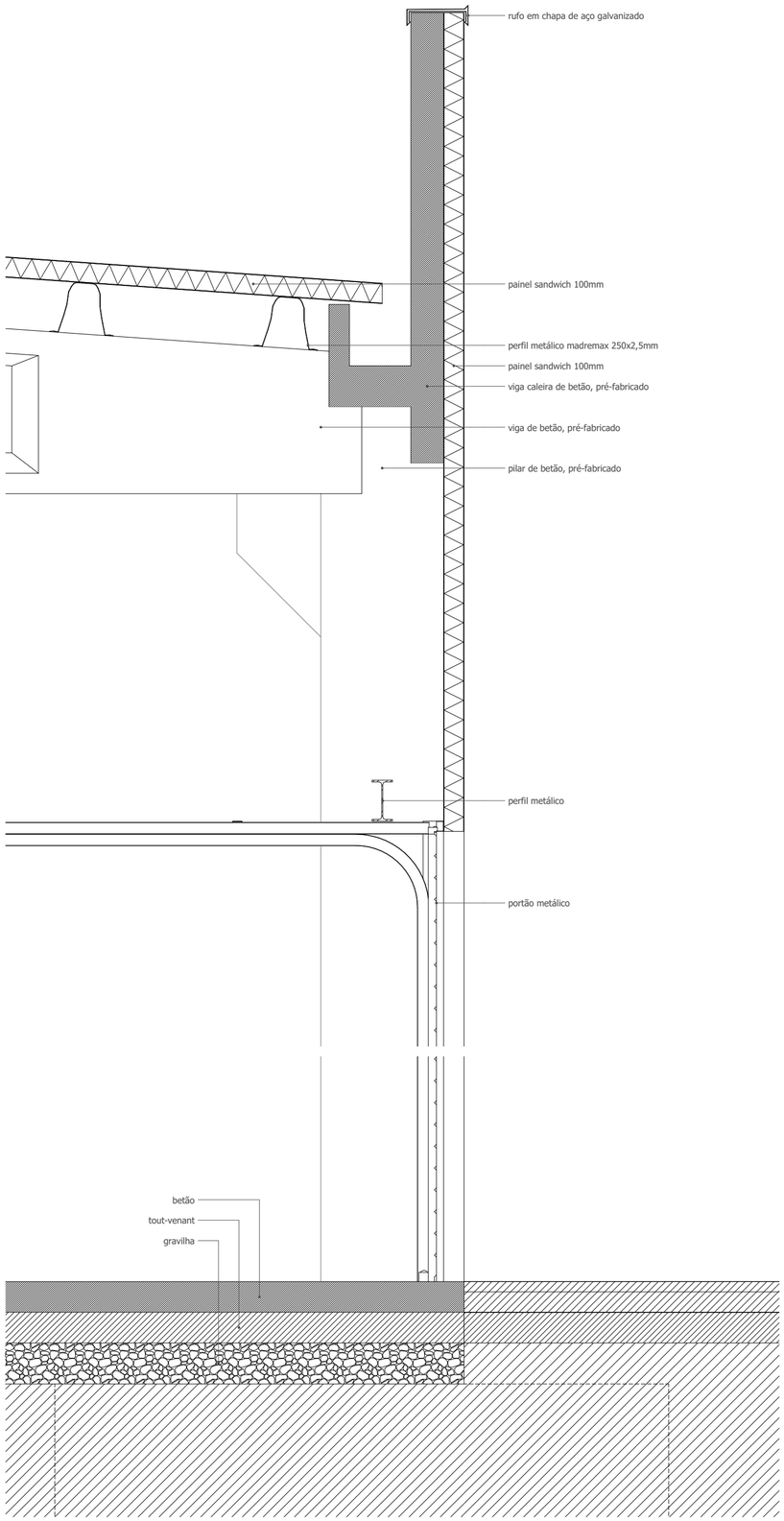
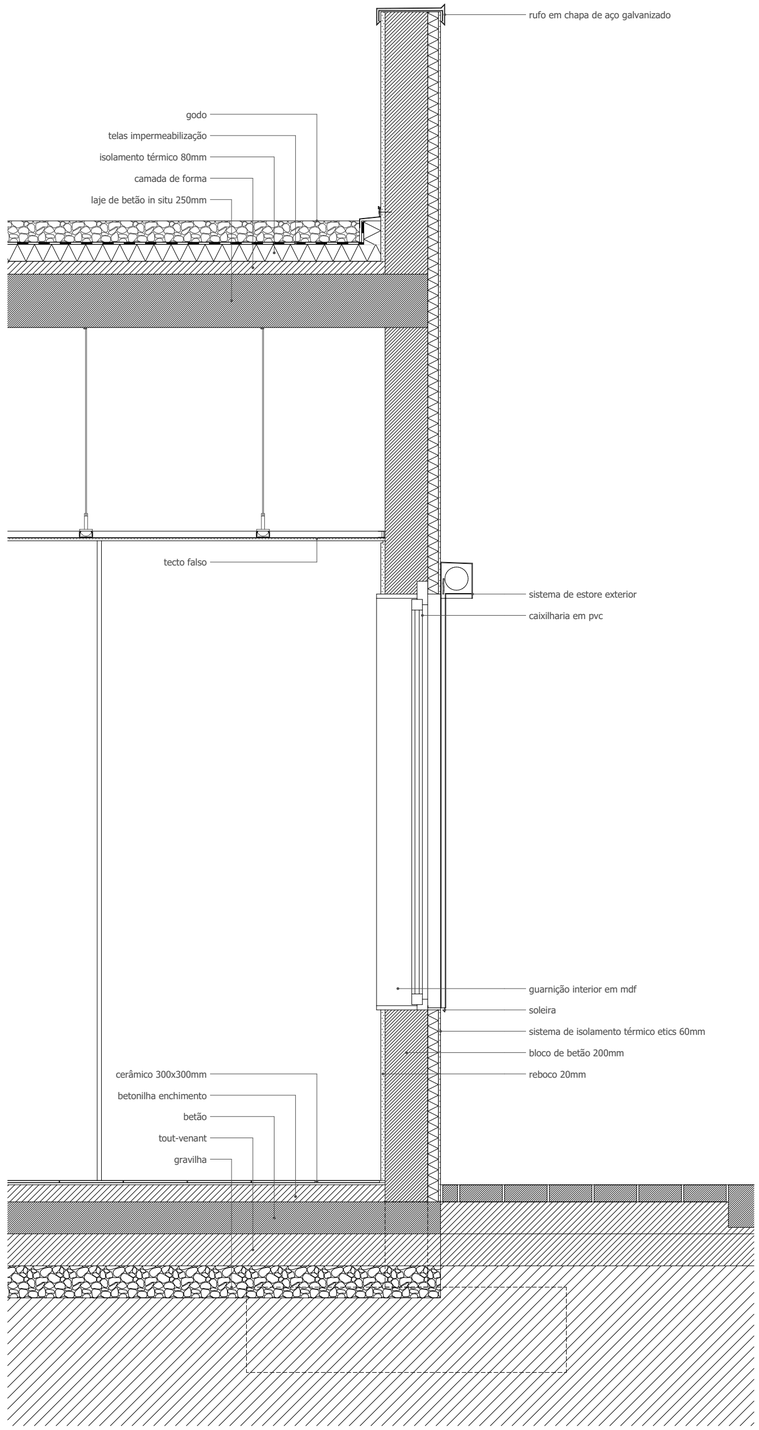


corte nave



corte edifício administrativo

Rev.	Prepared	Verified	Approved	Date	Description
0	vb.cs.ac	ac	td	2025/01/17	emissão do desenho

REGA energy

Sousel Biomethane Plant
Unidade de Biometano de Sousel

Project Number: A01

Phase: Licensing

VB.CS	AC	TD	2024/10/11
Prepared	Verified	Approved	Date

Author/Partner: elementofinito

Pormenores
Cortes Construtivos

A01-EF-LPE-000-00-ARQ-DWG-0701-0

Scale(s)

Notes	Format	Sheet	Next	Rev.
...	A2	1	-	0

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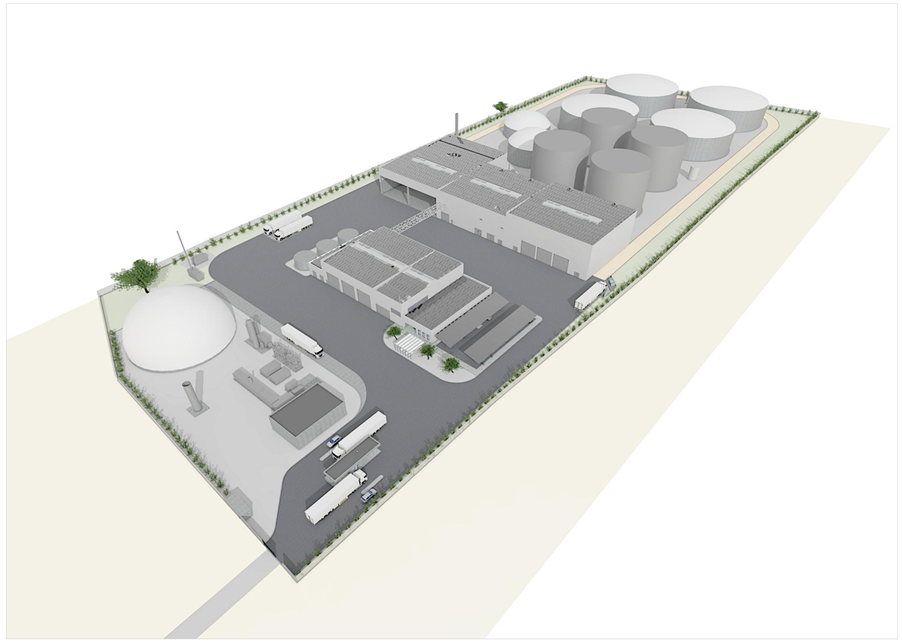

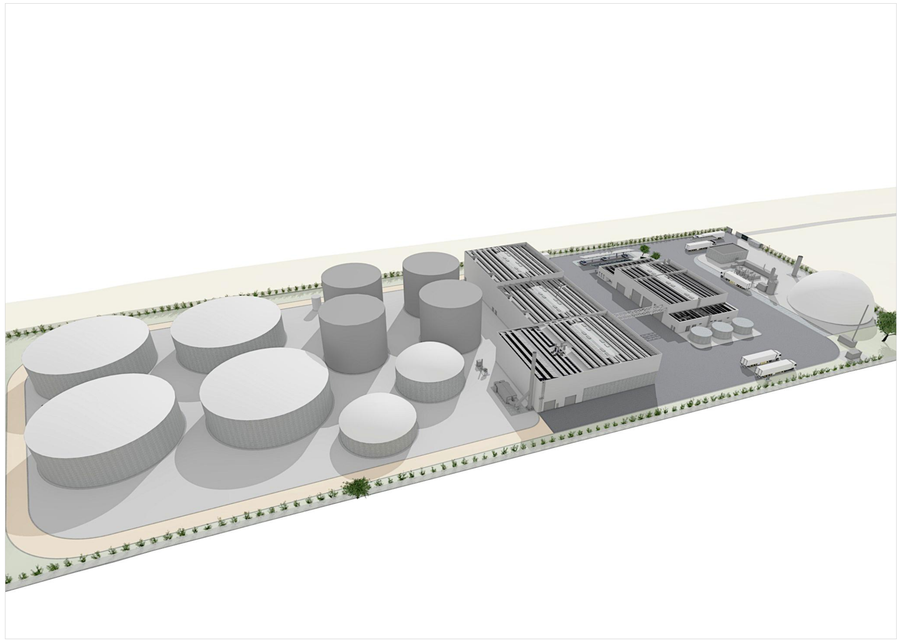

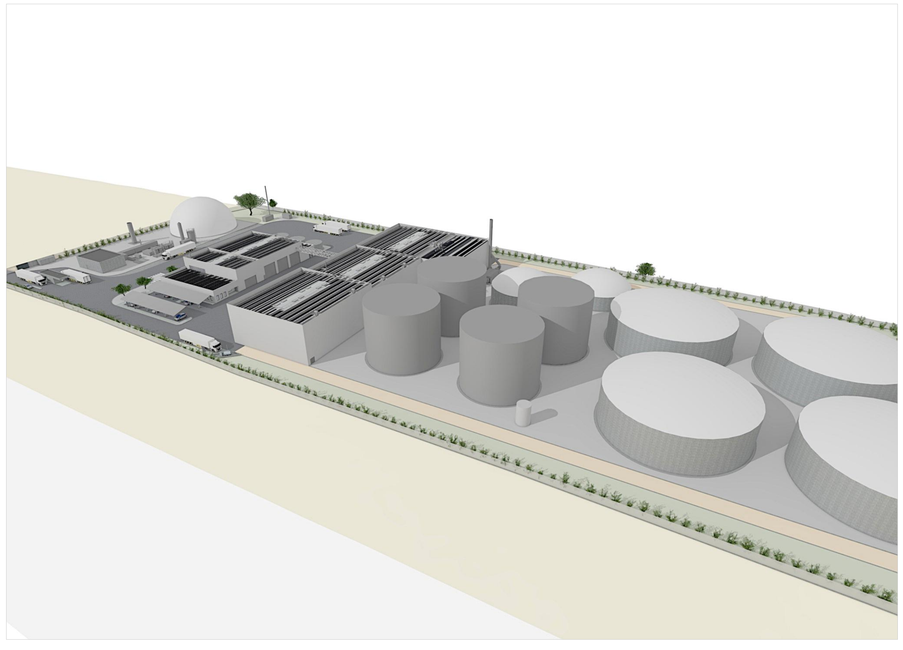

Rev.	Prepared	Verified	Approved	Date	Description
G	vb.cs.ac	ac	td	2025/06/02	alteraração da altura das chaminés
F	vb.cs.ac	ac	td	2025/04/02	alteração de acesso à Unidade
E	vb.cs.ac	ac	td	2025/03/25	alteração de layout de tanques
D	vb.cs.ac	ac	td	2025/03/05	simulações tridimensionais atualizadas e com materiais
C	vb.cs.ac	ac	td	2025/02/26	opção D
0	vb.cs.ac	ac	td	2025/01/17	emissão do desenho

RE GA energy

Sousel Biomethane Plant
Unidade de Biometano de Sousel

Project Number: A01

Phase: Licensing

VB.CS	AC	TD	2024/10/11
Prepared	Verified	Approved	Date

3D
Simulações tridimensionais

Author/Partner: elementofinito

A01-EF-LPE-000-00-ARQ-DWG-0801-G

Scale(s)

Notes: ...

Format	Sheet	Next	Rev.
A1	1	-	G

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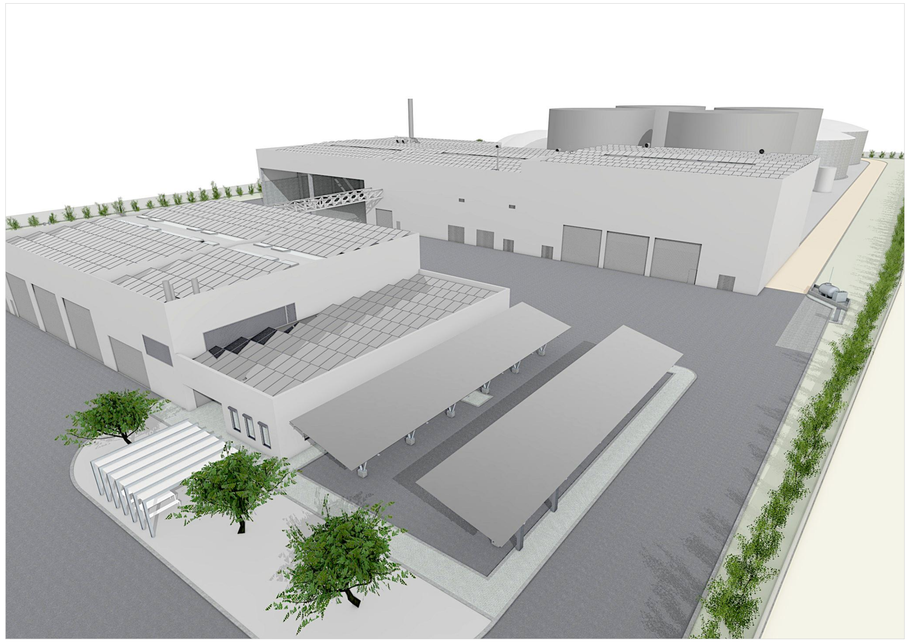

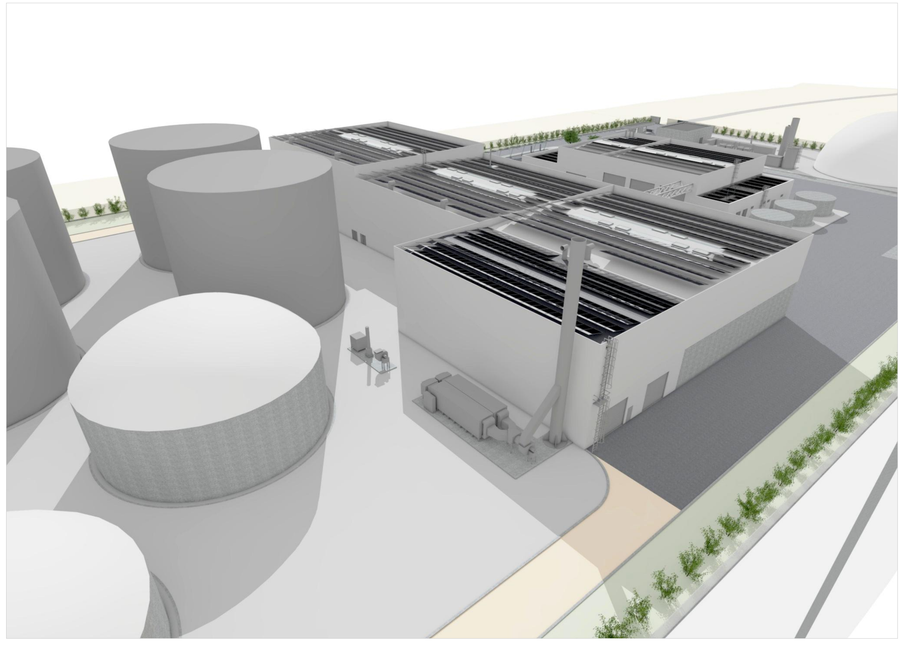

Rev.	Prepared	Verified	Approved	Date	Description
G	vb.cs.ac	ac	td	2025/06/02	alteraração da altura das chaminés
F	vb.cs.ac	ac	td	2025/04/02	alteração de acesso à Unidade
E	vb.cs.ac	ac	td	2025/03/25	alteração de layout de tanques
D	vb.cs.ac	ac	td	2025/03/05	simulações tridimencionais atualizadas e com materiais
C	vb.cs.ac	ac	td	2025/02/26	opção D
0	vb.cs.ac	ac	td	2025/01/17	emissão do desenho

RE:GA energy

Sousel Biomethane Plant
Unidade de Biometano de Sousel

Project Number
A01

Phase
Licensing

VB.CS	AC	TD	2024/10/11
Prepared	Verified	Approved	Date

Author/Partner
elementofinito

3D
Simulações tridimensionais

A01-EF-LPE-000-00-ARQ-DWG-0802-G

Scale(s)

Notes
...

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A1	1	-	G

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