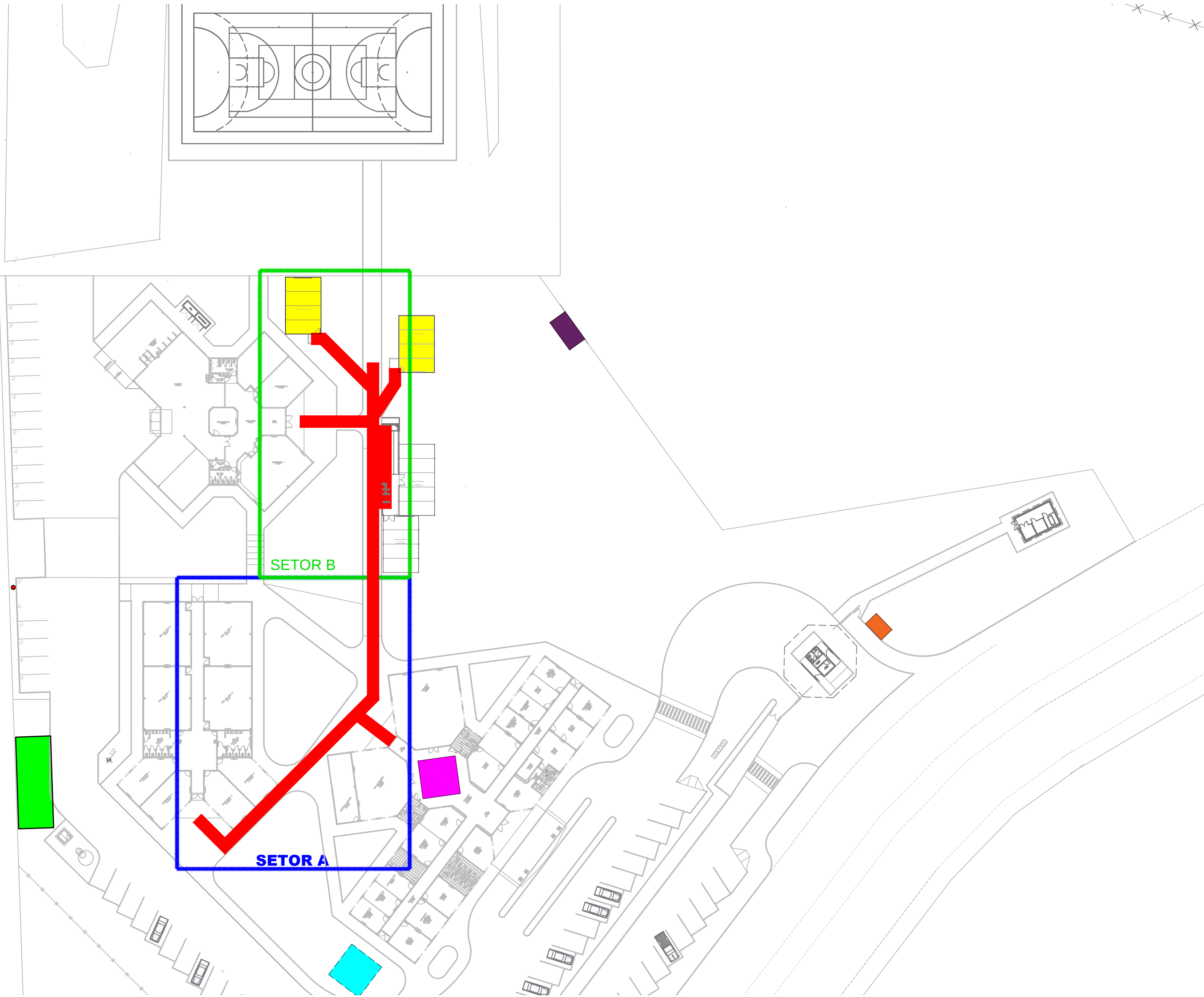
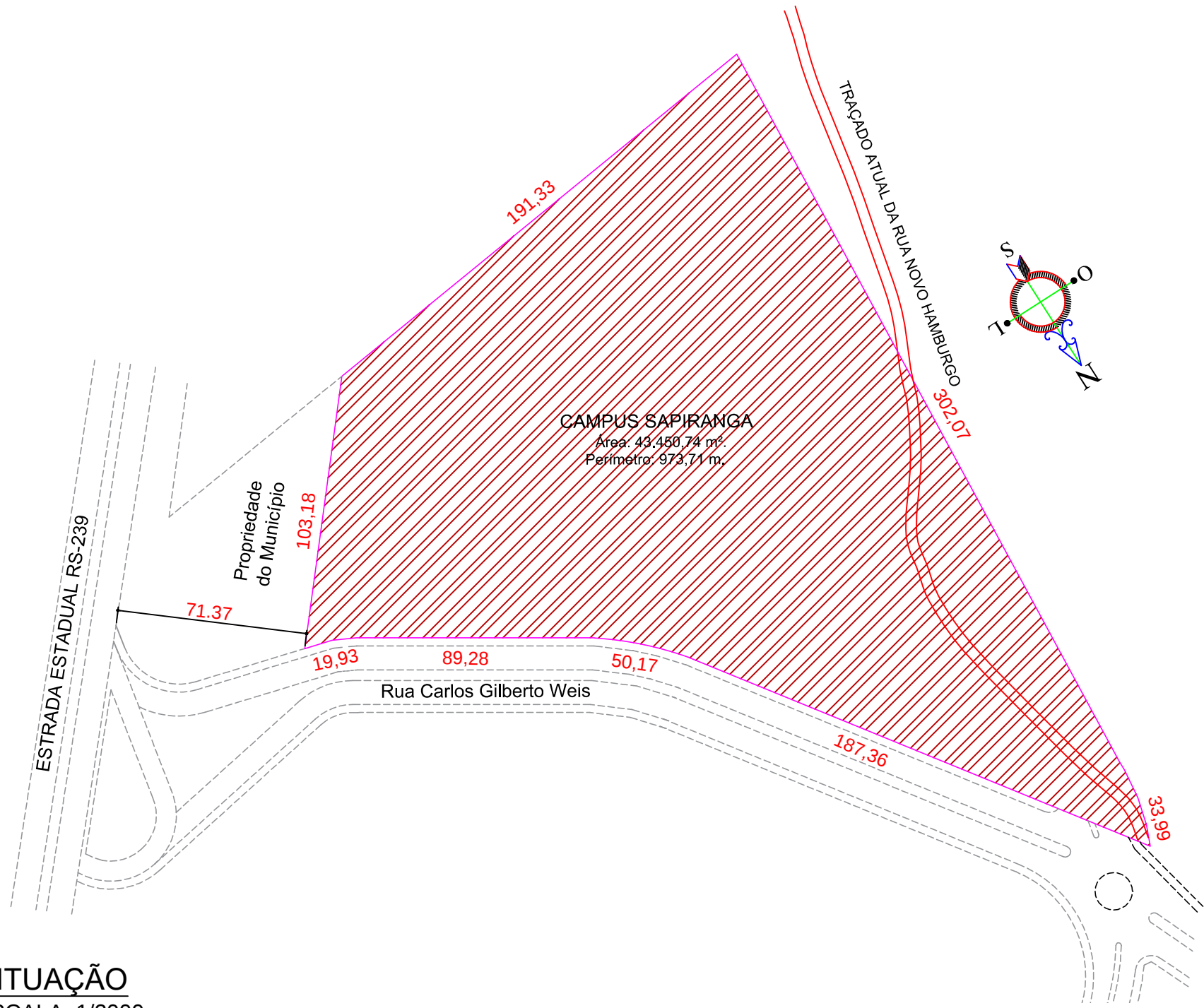




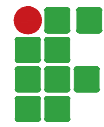
IMPLANTAÇÃO
ESCALA: 1/500



SITUAÇÃO
ESCALA: 1/2000

LEGENDA

- COBERTURA DE PASSEIOS A CONSTRUIR
- TELHAS SALAS MODULARES A SUBSTITUIR
- RESERVATÓRIO ÁGUA /GARAGEM A CONSTRUIR
- COBERTURA DA CLARABÓIA SUBSTITUIR
- PERGOLADO DE MADEIRA A CONSTRUIR
- CANIL A CONSTRUIR
- MELIPONÁRIO A CONSTRUIR



INSTITUTO FEDERAL
Sul-rio-grandense
Câmpus Saporanga

DEAP - DEPARTAMENTO DE ADMINISTRAÇÃO E DE PLANEJAMENTO
Avenida Carlos Gilberto Weis, nº 155, Quatro Colônias, CEP-93804-870 Saporanga/RS
Fone: (51) 3599-7600
email: sg-deap@ifrsul.edu.br / eduardosoares@ifrsul.edu.br

COBERTURA DOS PASSEIOS - CÂMPUS SAPIRANGA
AVENIDA CARLOS GILBERTO WEIS, 155 - BAIRRO QUATRO COLÔNIAS - SAPIRANGA/RS

PROJETO DE MANUTENÇÃO /AMPLIAÇÃO

SITUAÇÃO E LOCALIZAÇÃO

DESENHO
EDUARDO RAYHER SOARES

DATA
ABRIL/2026

ESCALA
INDICADA

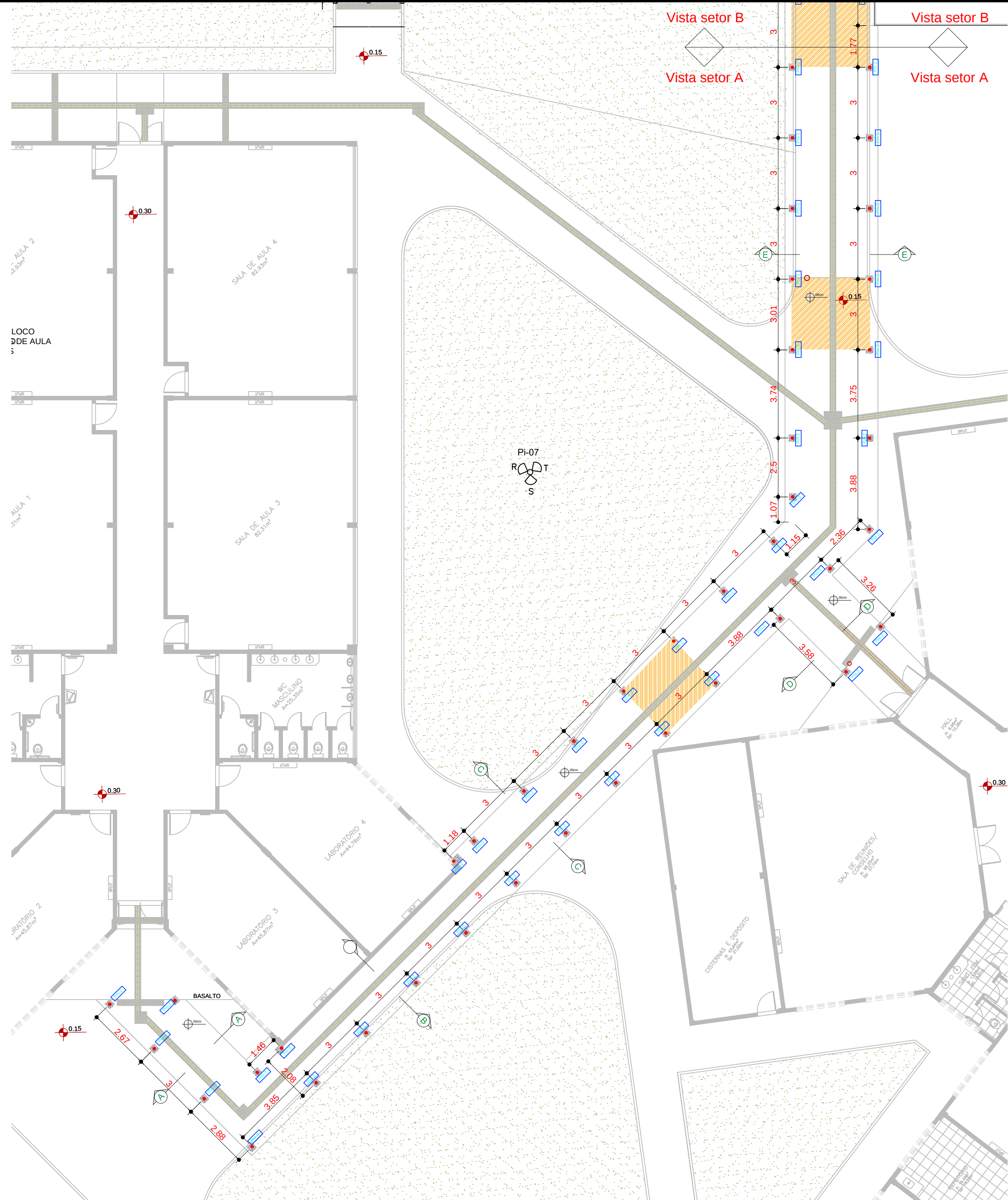
PRANCHA
PRO 01/09

ÁREA DA OBRA
682,00m²

VISTO
Marina Lange

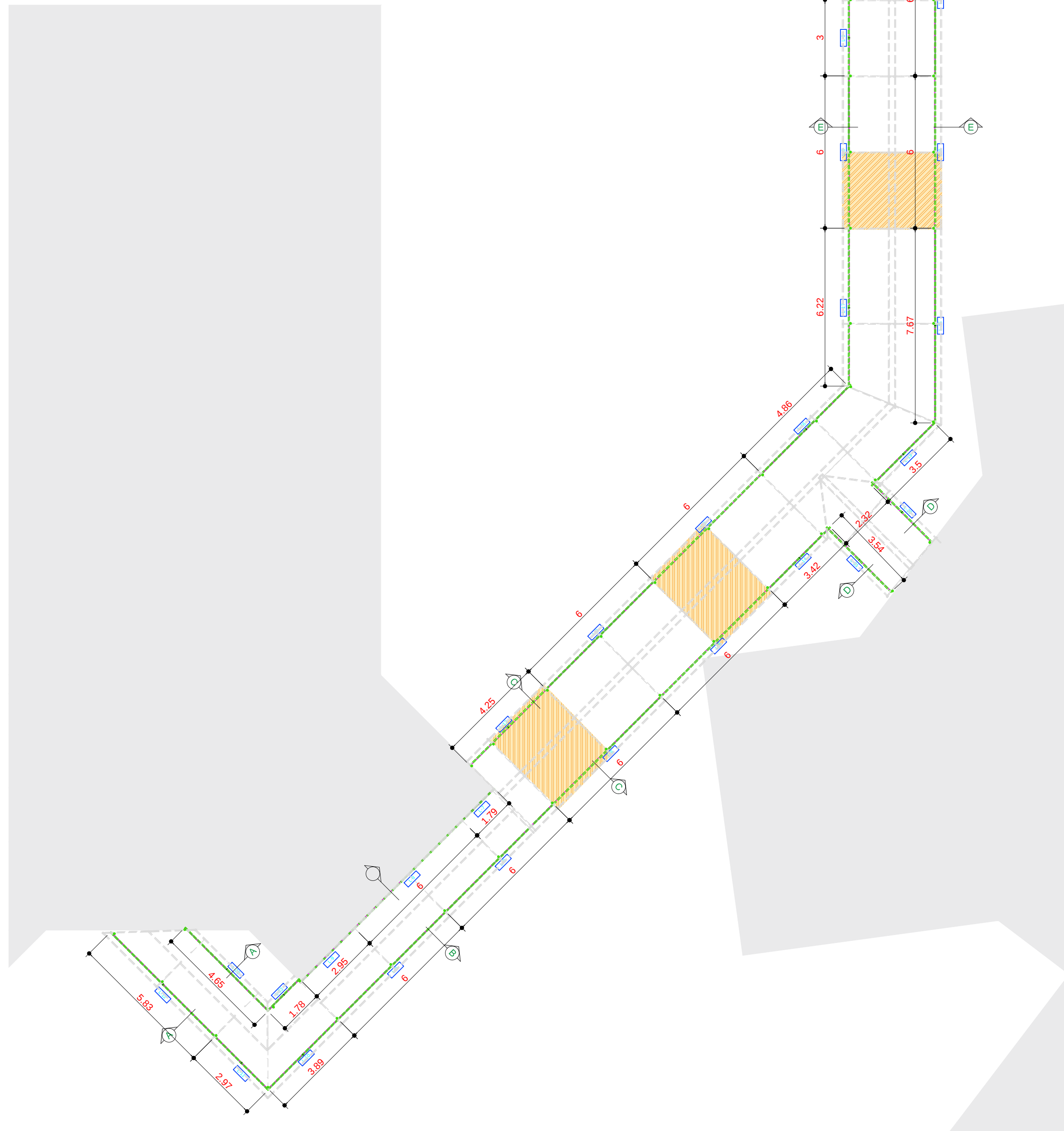
OBRA
CSA 001/2026

D:\IFRSUL\Q2024 - COBERTURA DOS PASSEIOS\CSA 01-26 - COB PASSEIOS - V08.DWG - 21/04/2026



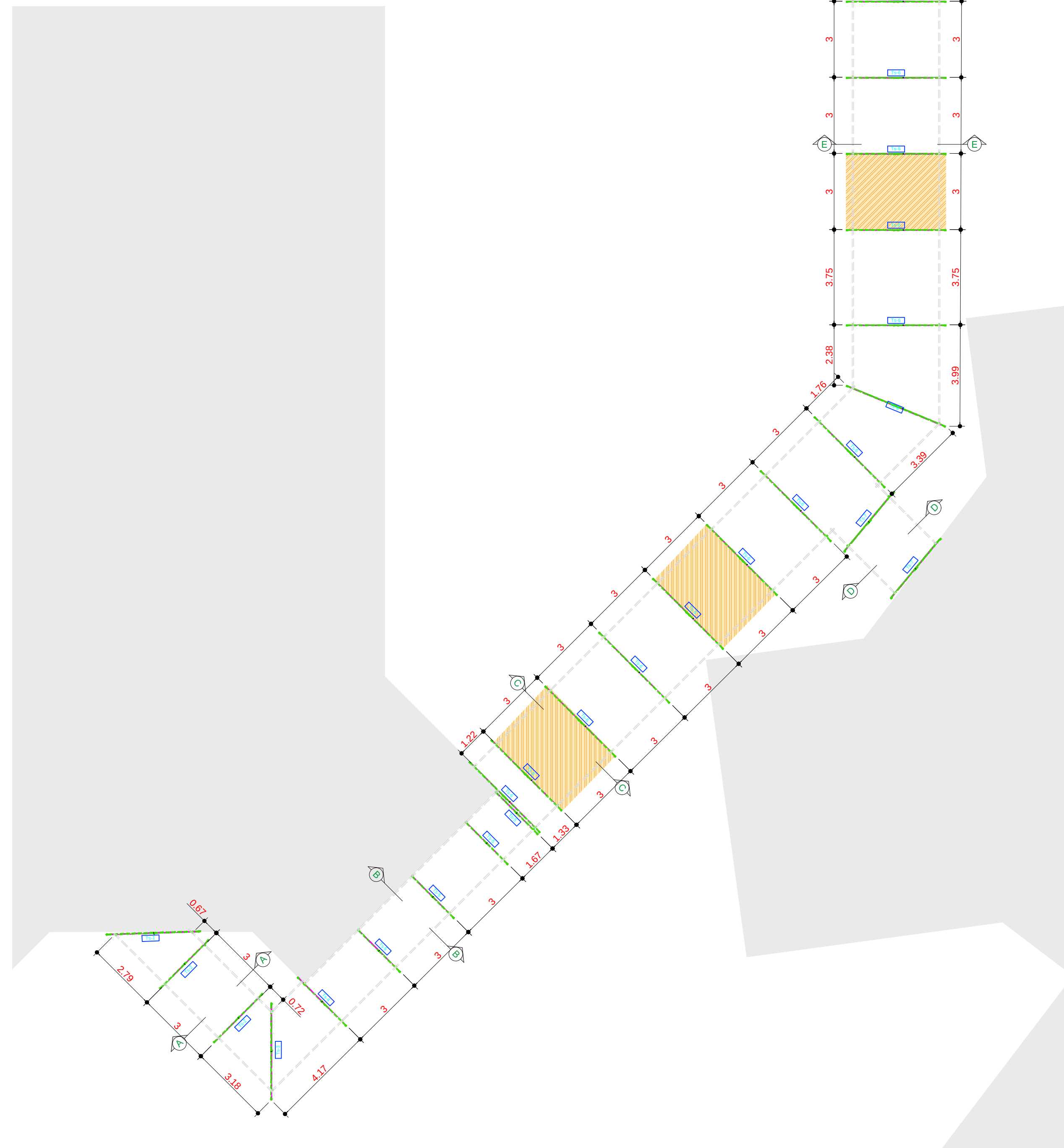
SETOR A - FUNDAÇÕES E MONTAGEM DE PILARES
ESCALA: 1/125

Vão Contraventado



SETOR A - MONTAGEM LONGARINAS
ESCALA: 1/125

Vão Contraventado



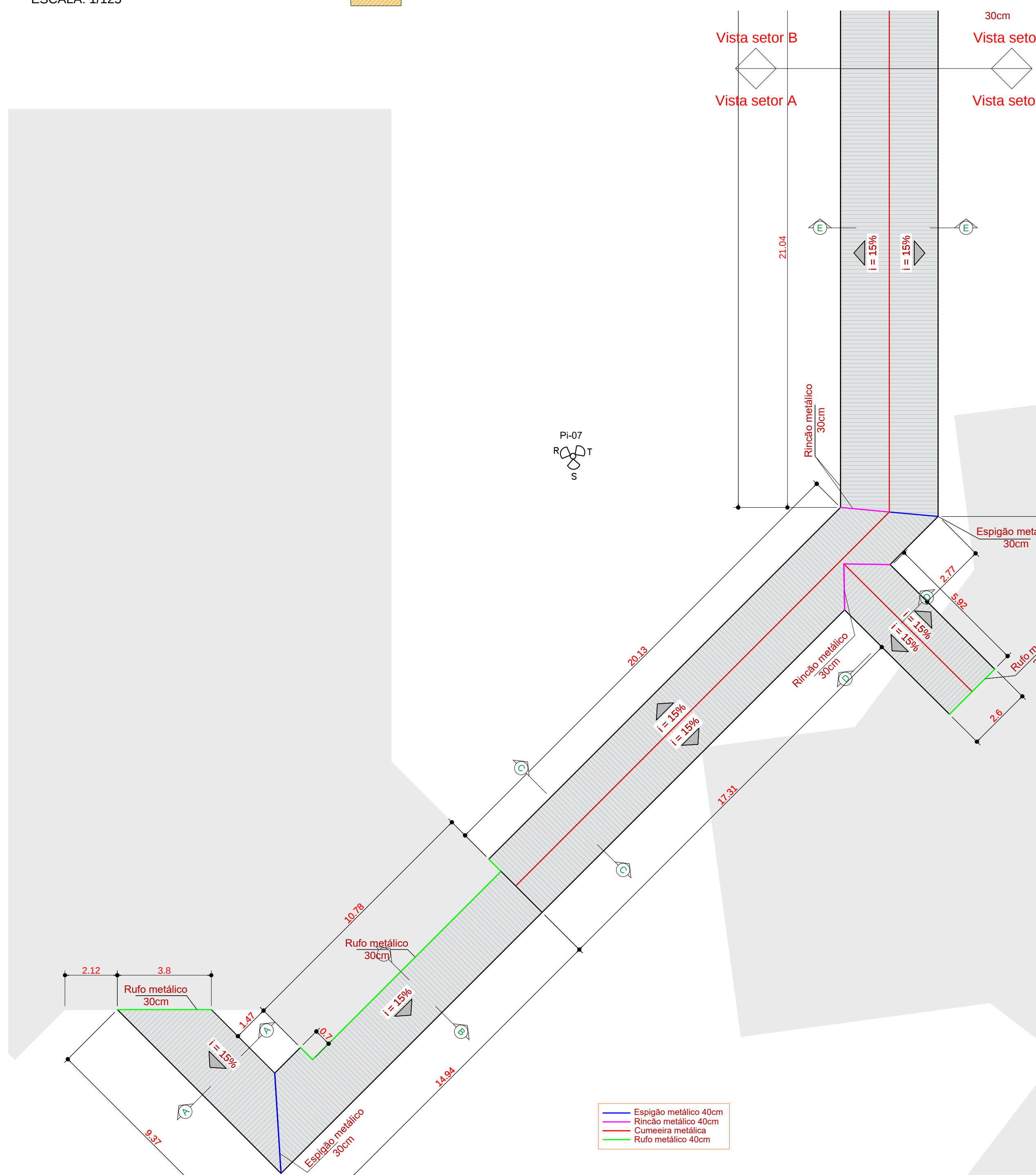
SETOR A - MONTAGEM DE TESOURAS
ESCALA: 1/125

Vão Contraventado



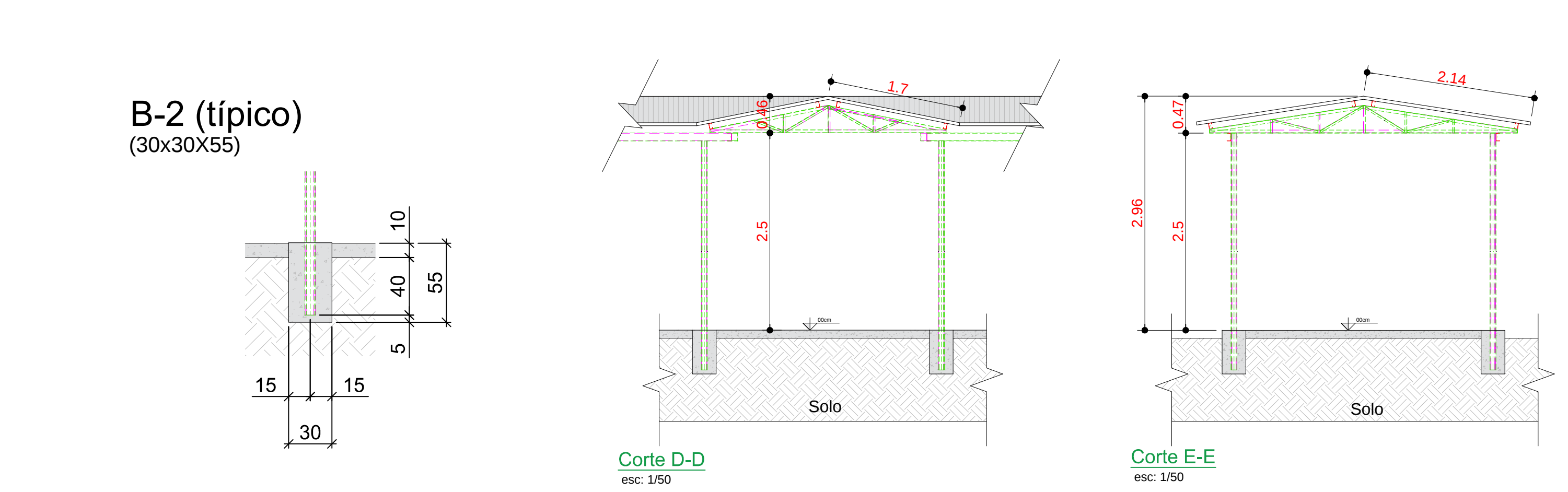
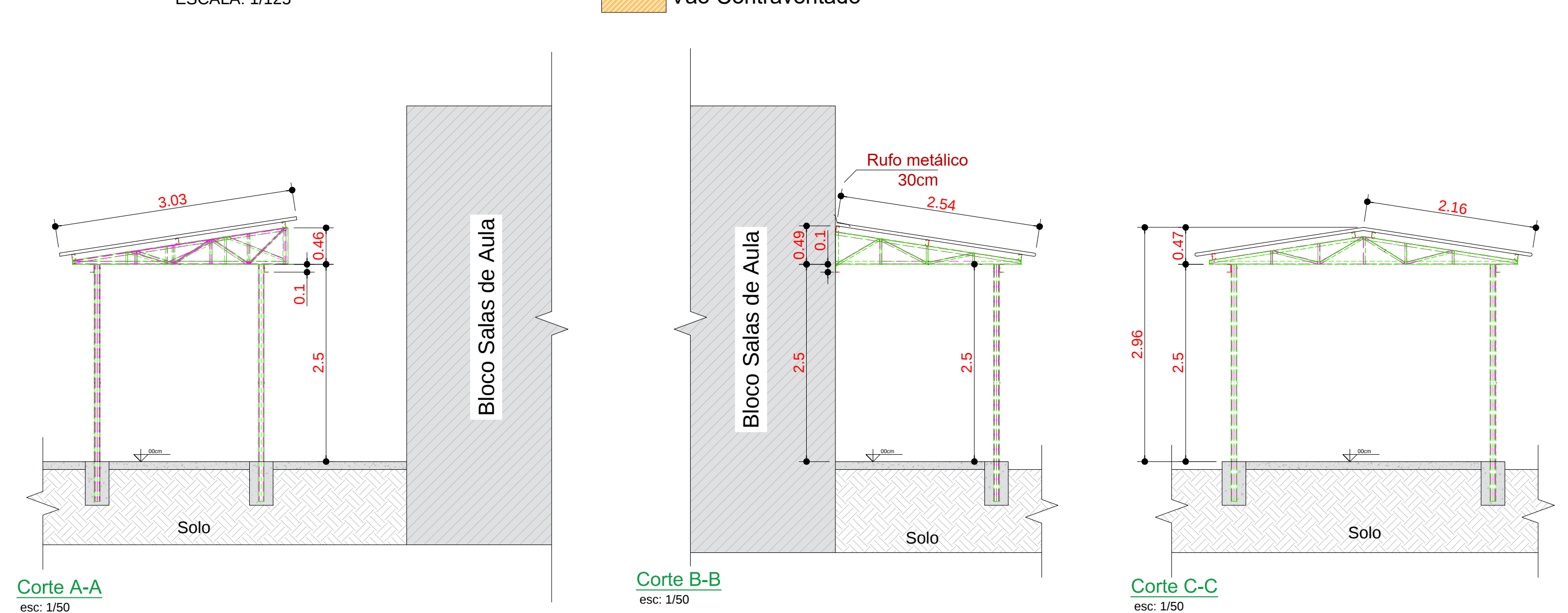
SETOR A - MONTAGEM DAS TERÇAS
ESCALA: 1/125

Vão Contraventado

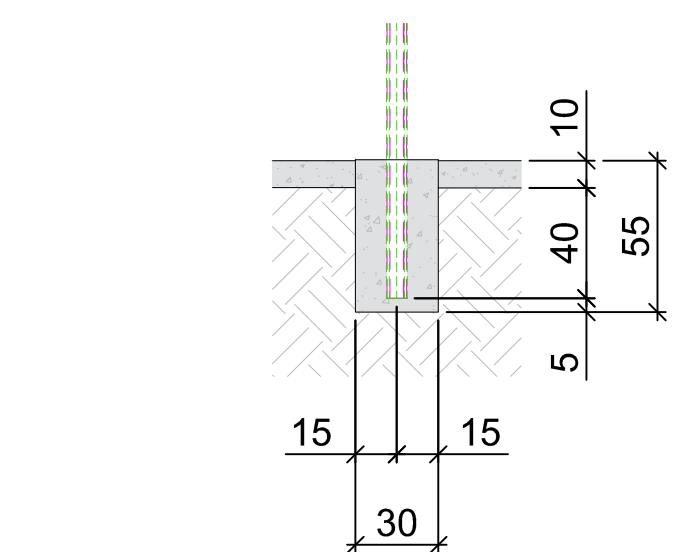


SETOR A - COBERTURA
ESCALA: 1/125

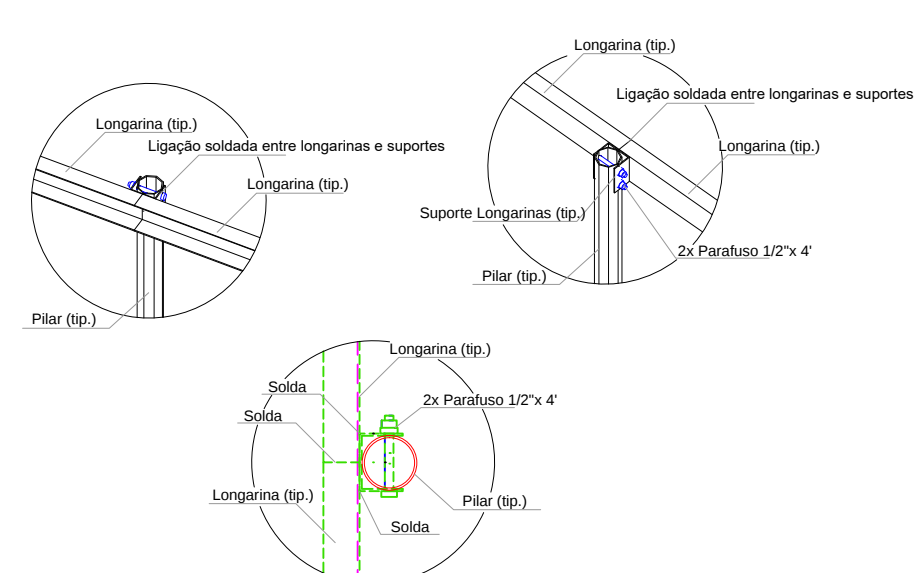
Vão Contraventado



B-2 (típico)
(30x30x55)



Detalhe ligação Pilares - Longarinas
esc: 1/50



Detalhe ligação Pilares - Longarinas
esc: 1/50

INSTITUTO FEDERAL
Sul do Grande
Campus Sapiranga

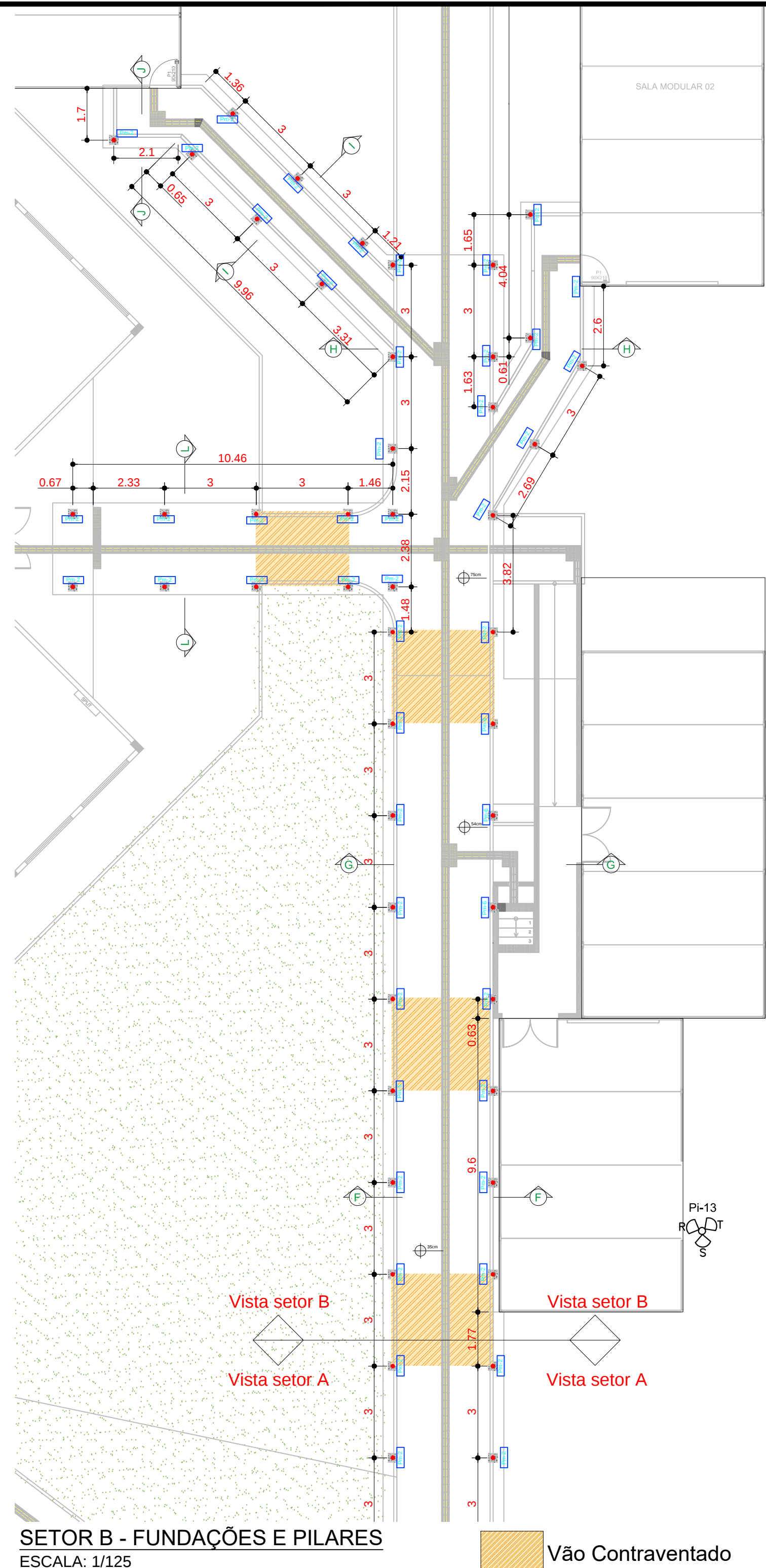
DEAP - DEPARTAMENTO DE ADMINISTRAÇÃO E DE PLANEJAMENTO
Avenida Carlos Gilberto Weiss, nº 155, Quatro Colônias, CEP: 93044-870, Sapiranga/RS
FONE: (51) 3295-1100
E-MAIL: seg-desap@inf.br / inf@desap.inf.br

COBERTURA DOS PASSEIOS - CAMPUS SAPIRANGA
ÁREA DA OBRA: 682,00m²

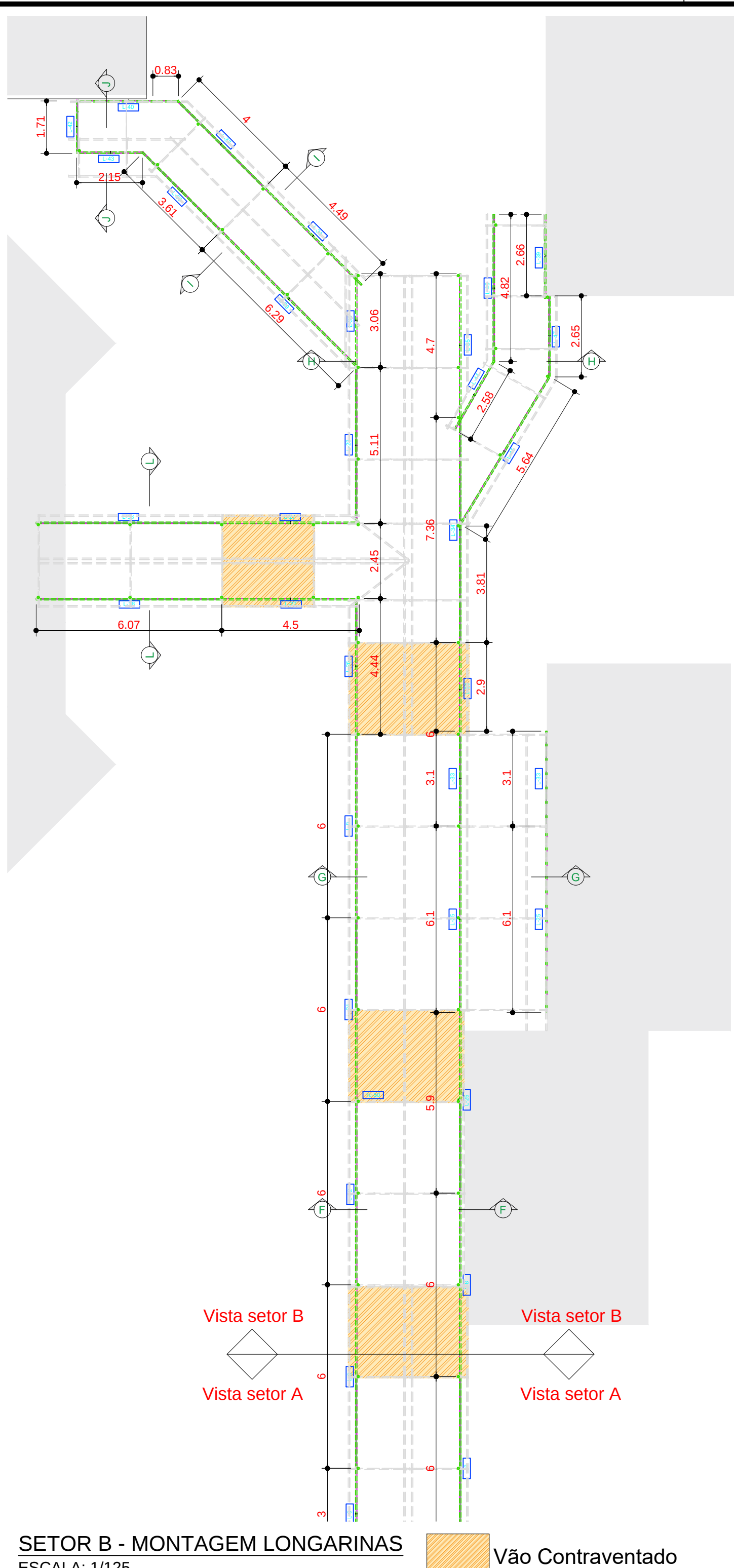
PROJETO DE MANUTENÇÃO / AMPLIAÇÃO

SETOR A: FUNDAÇÃO, MONTAGEM E COBERTURA

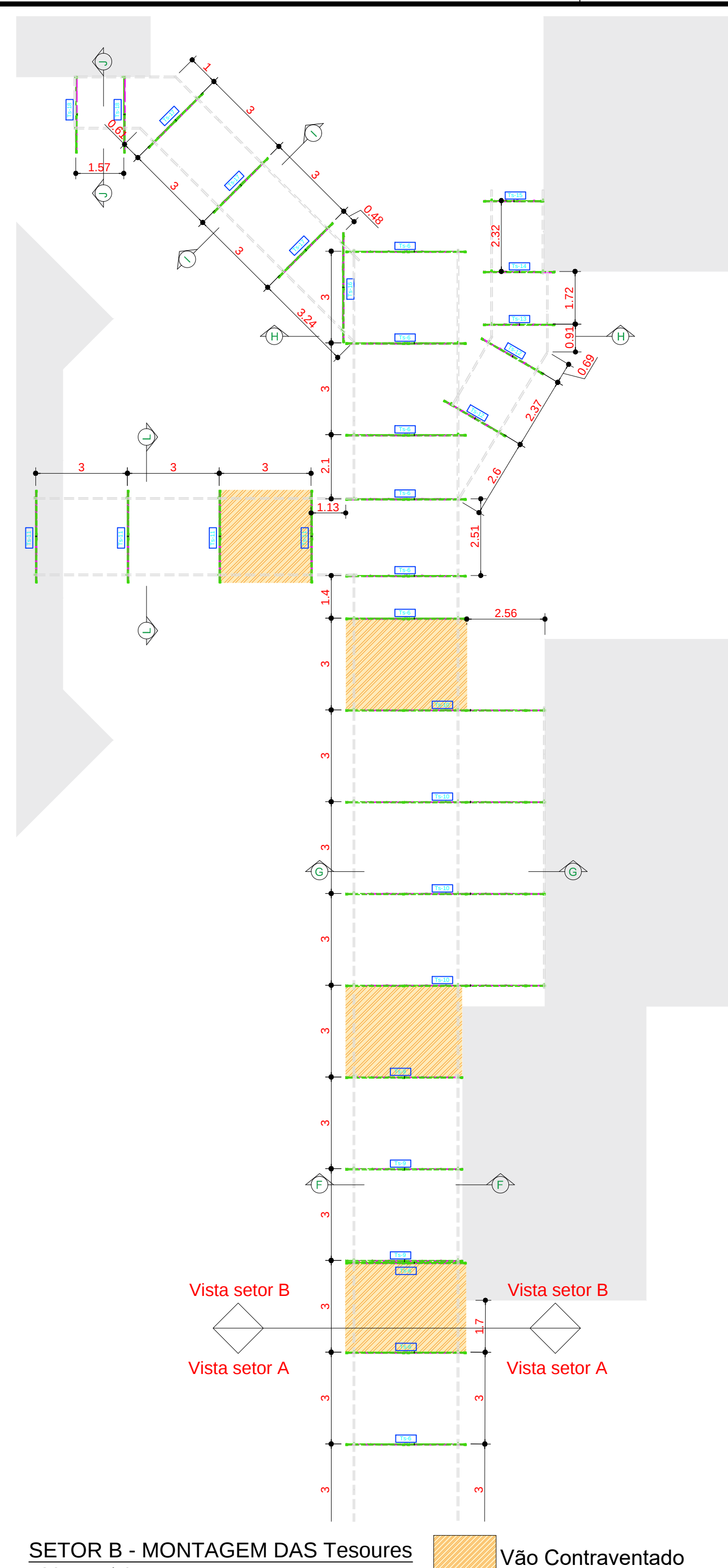
DESENHO: EDUARDO RAYNER SOARES
DATA: ABRIL/2020
ESCALA: INDICADA
PRANCHAS: PRO 02/09



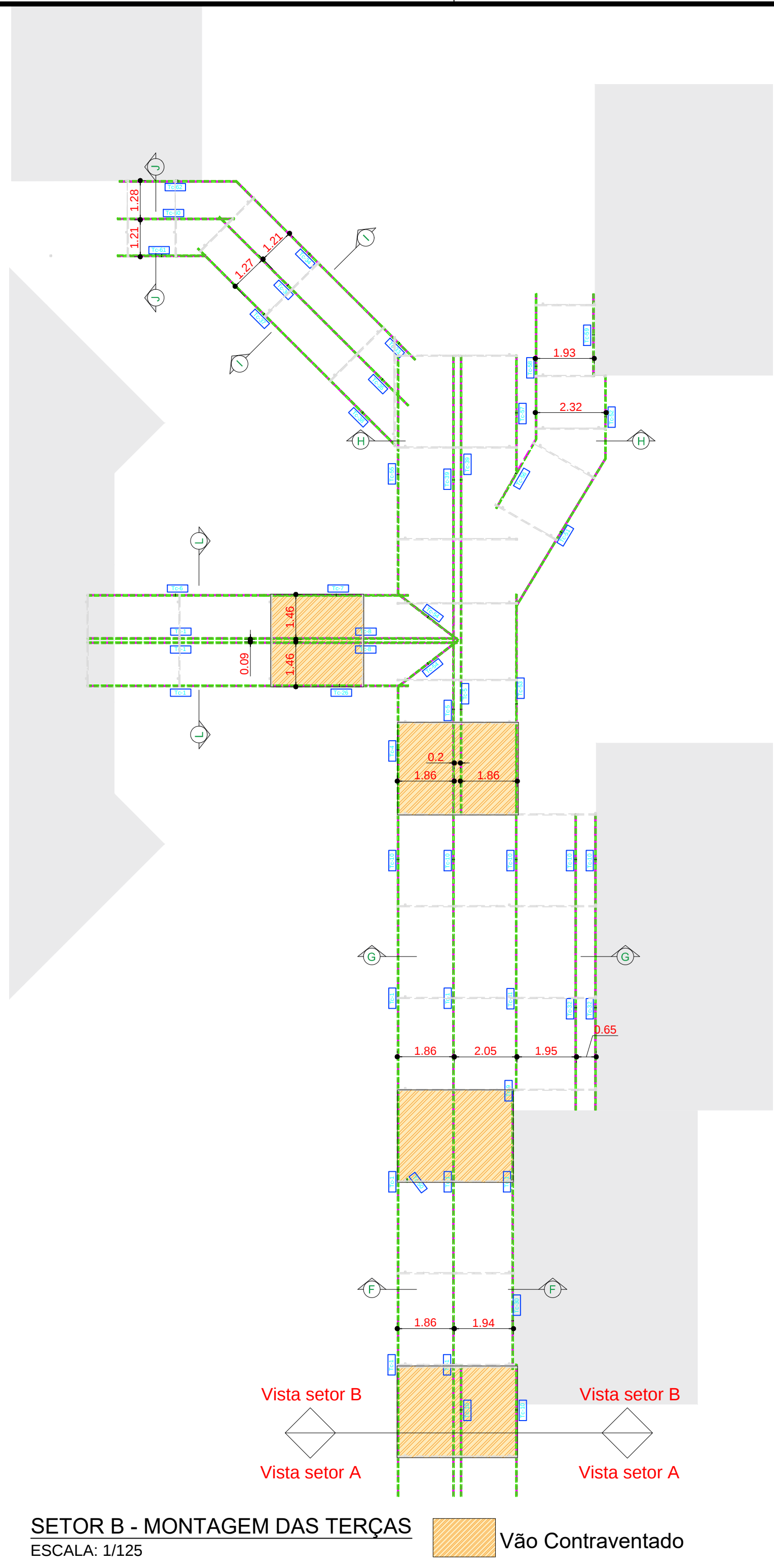
SETOR B - FUNDAÇÕES E PILARES
ESCALA: 1/125



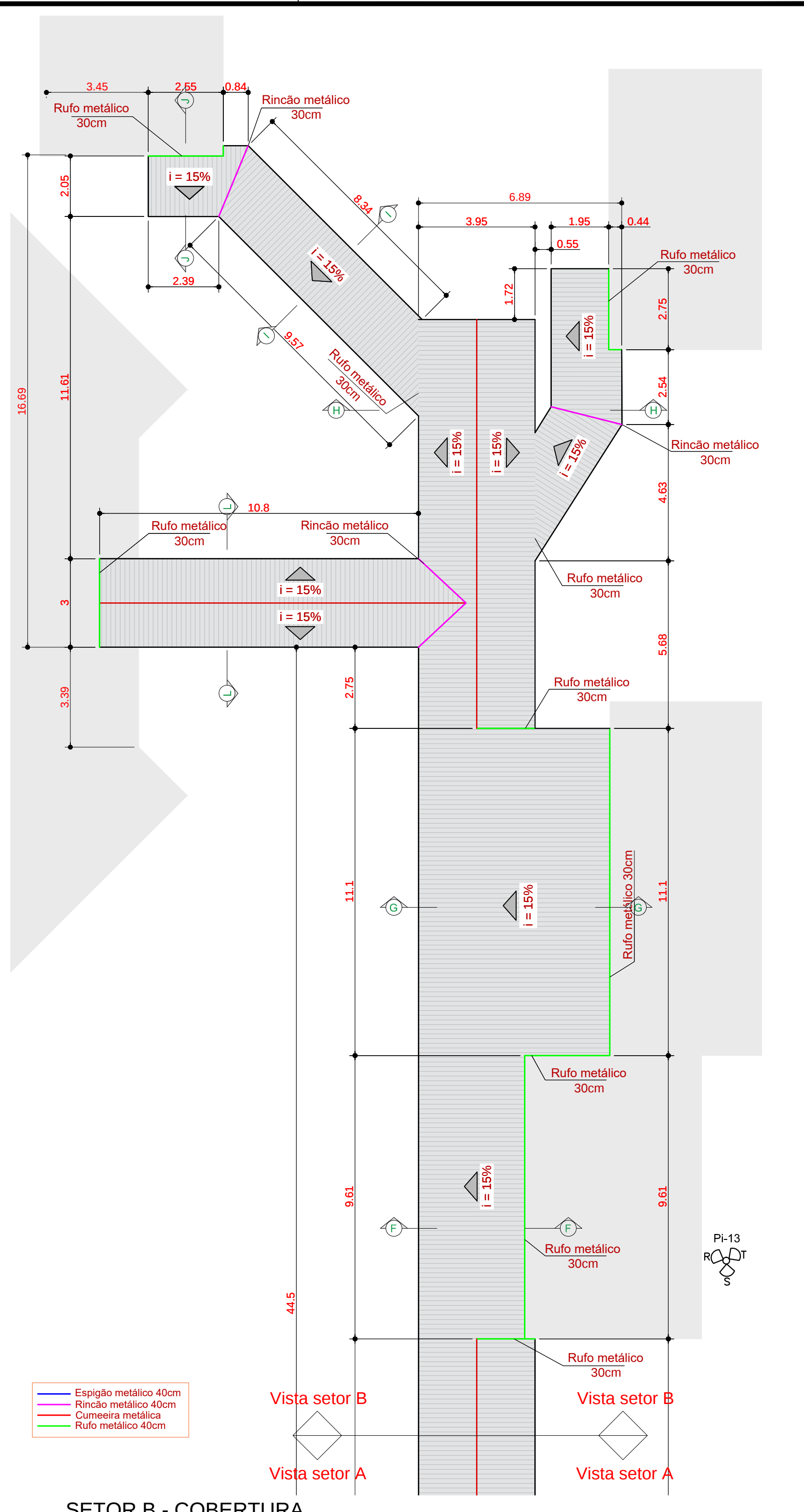
SETOR B - MONTAGEM LONGARINAS
ESCALA: 1/125



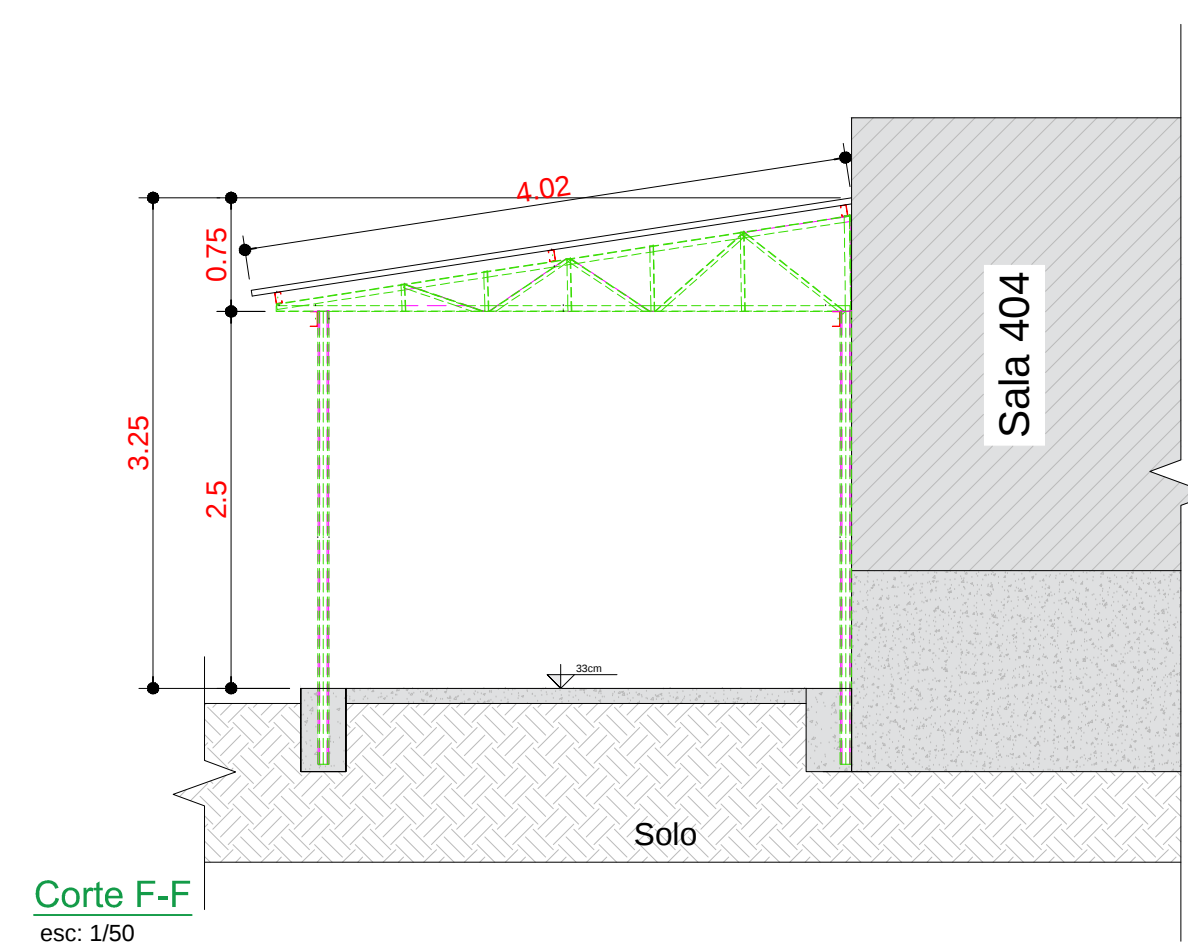
SETOR B - MONTAGEM DAS TESOURES
ESCALA: 1/125



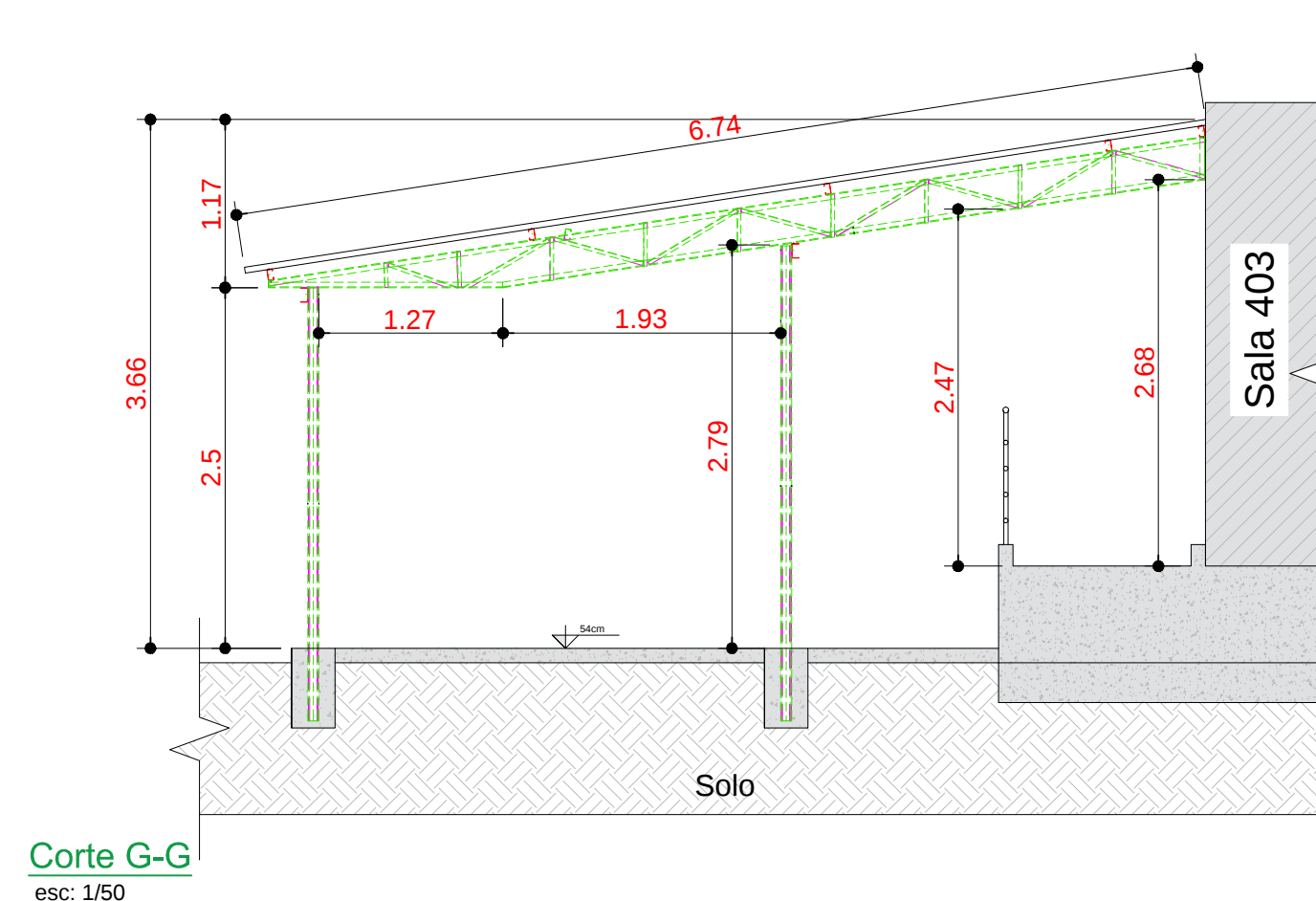
SETOR B - MONTAGEM DAS TERÇAS
ESCALA: 1/125



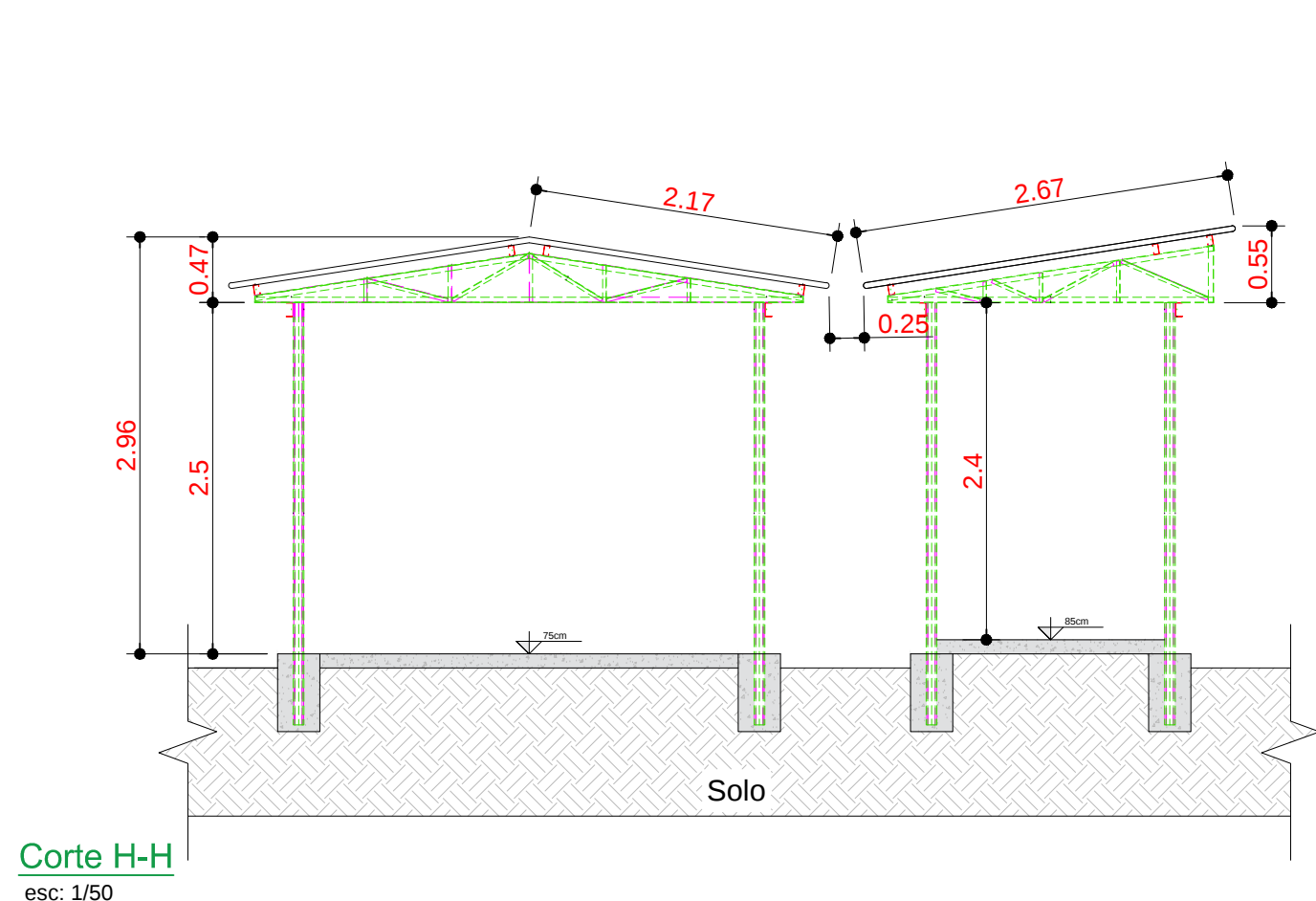
SETOR B - COBERTURA
ESCALA: 1/125



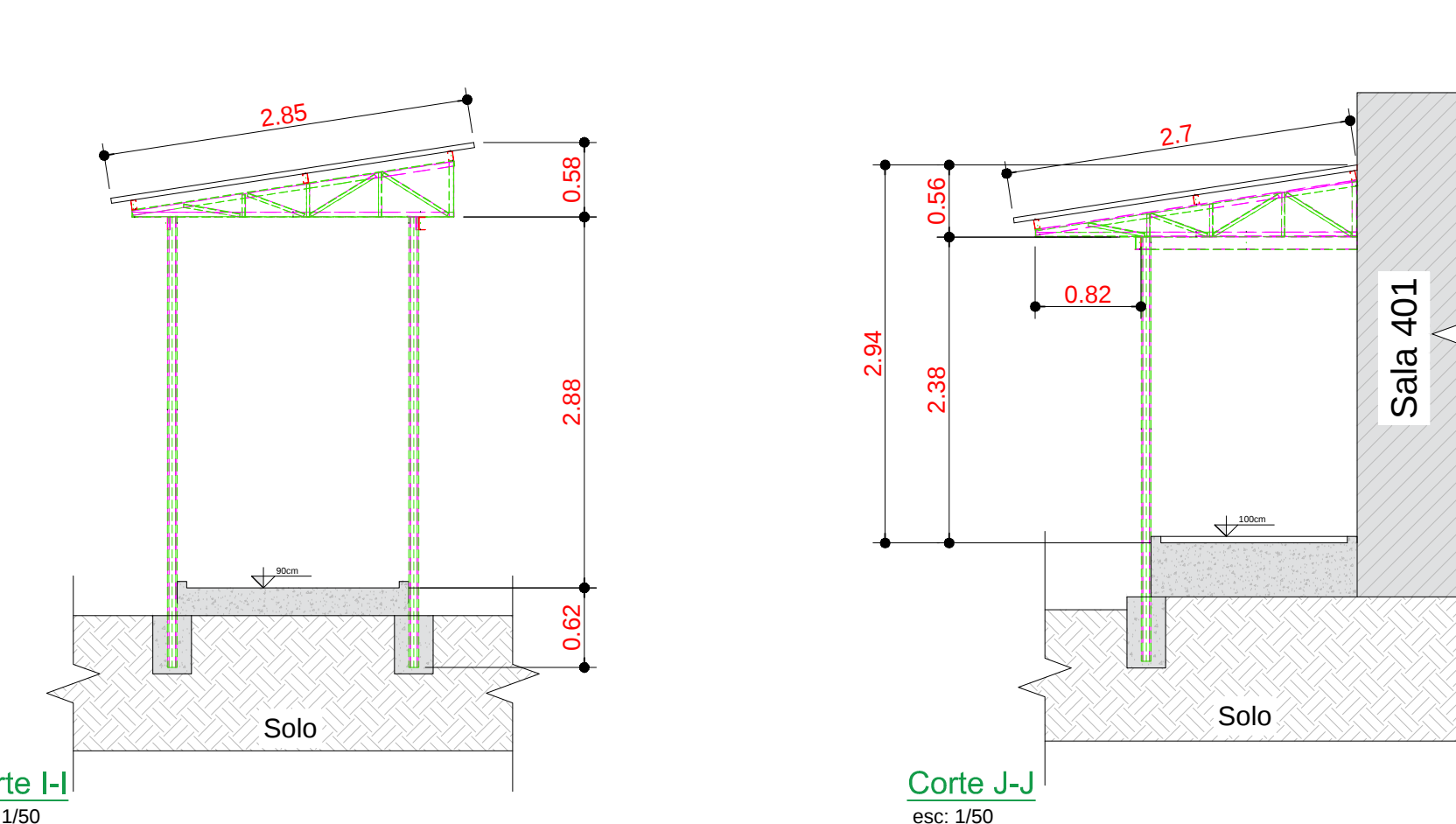
Corte F-F
esc: 1/50



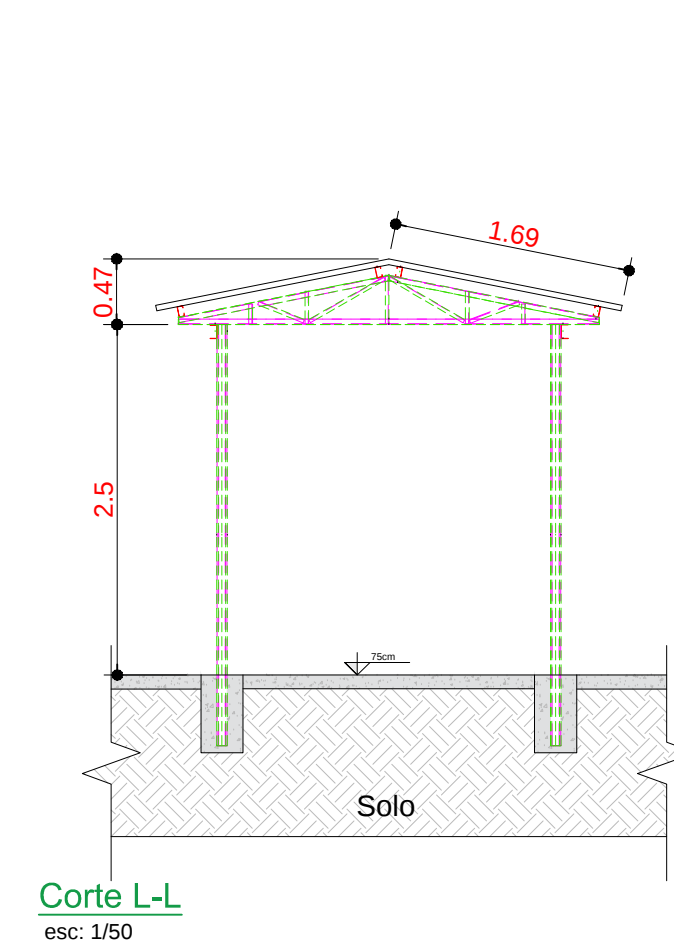
Corte G-G
esc: 1/50



Corte H-H
esc: 1/50

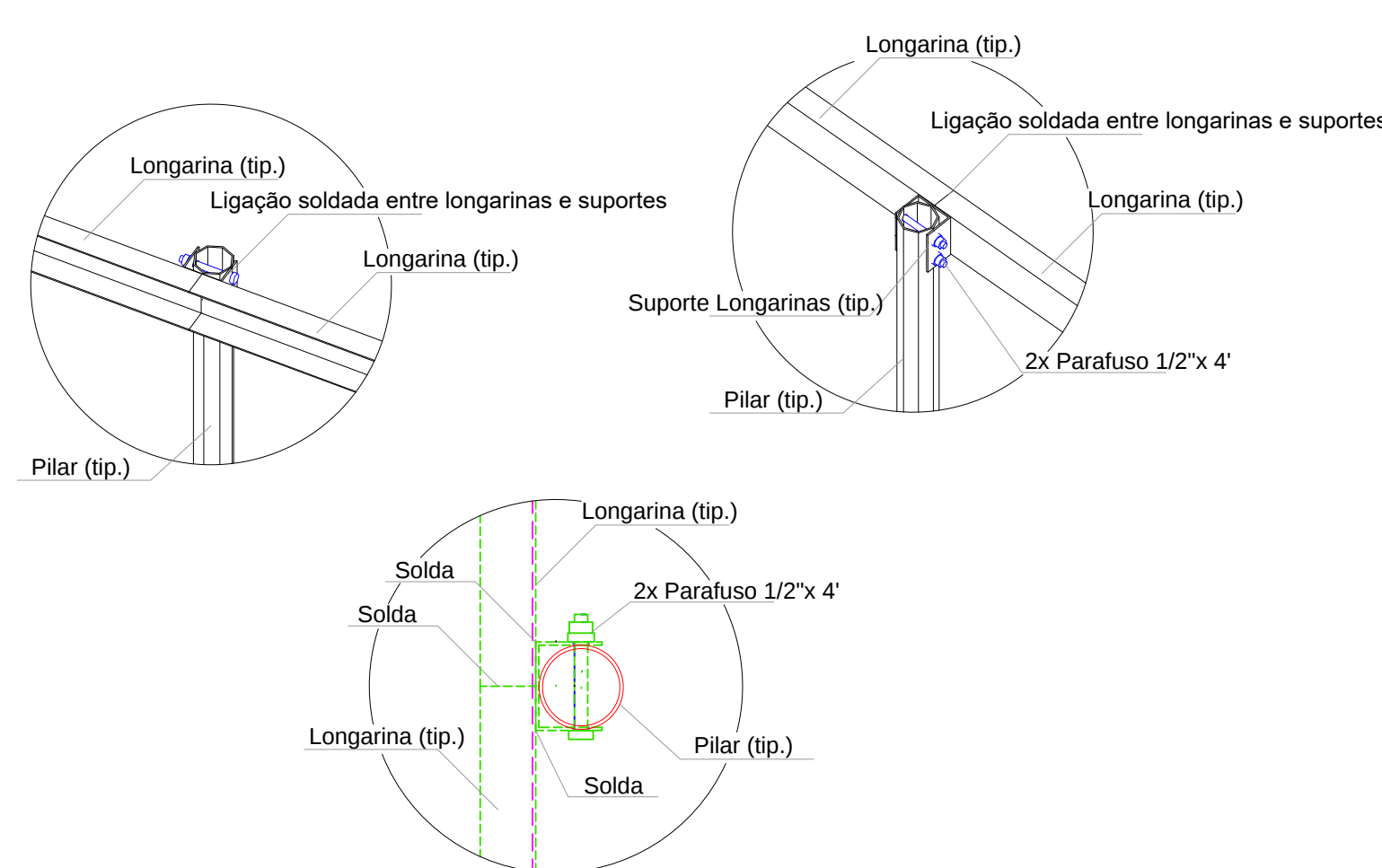
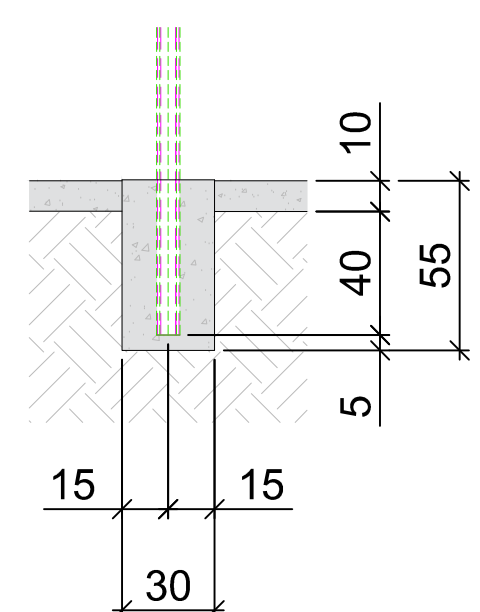


Corte I-I
esc: 1/50



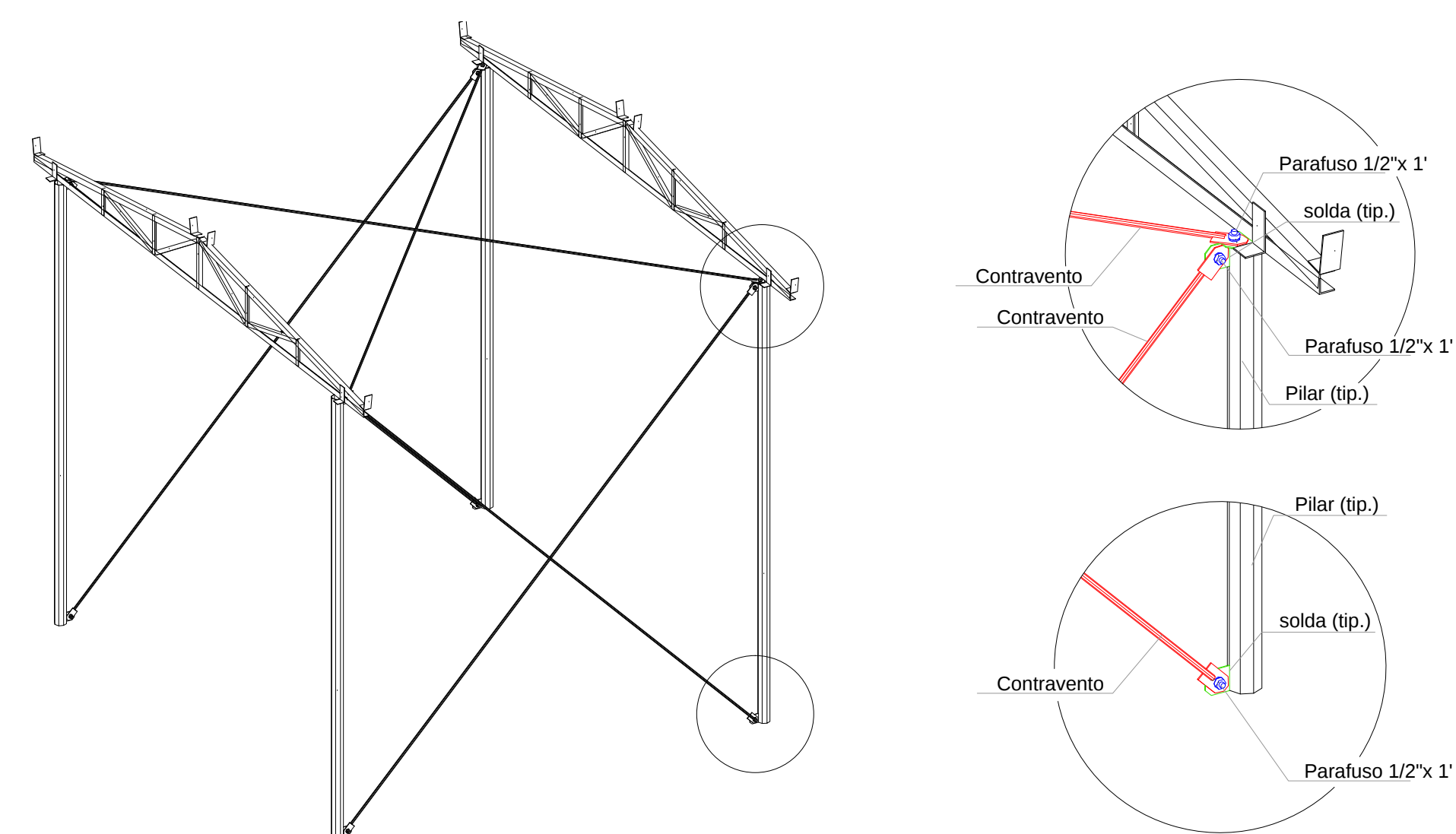
Corte L-L
esc: 1/50

B-2 (típico)
(30x30x55)



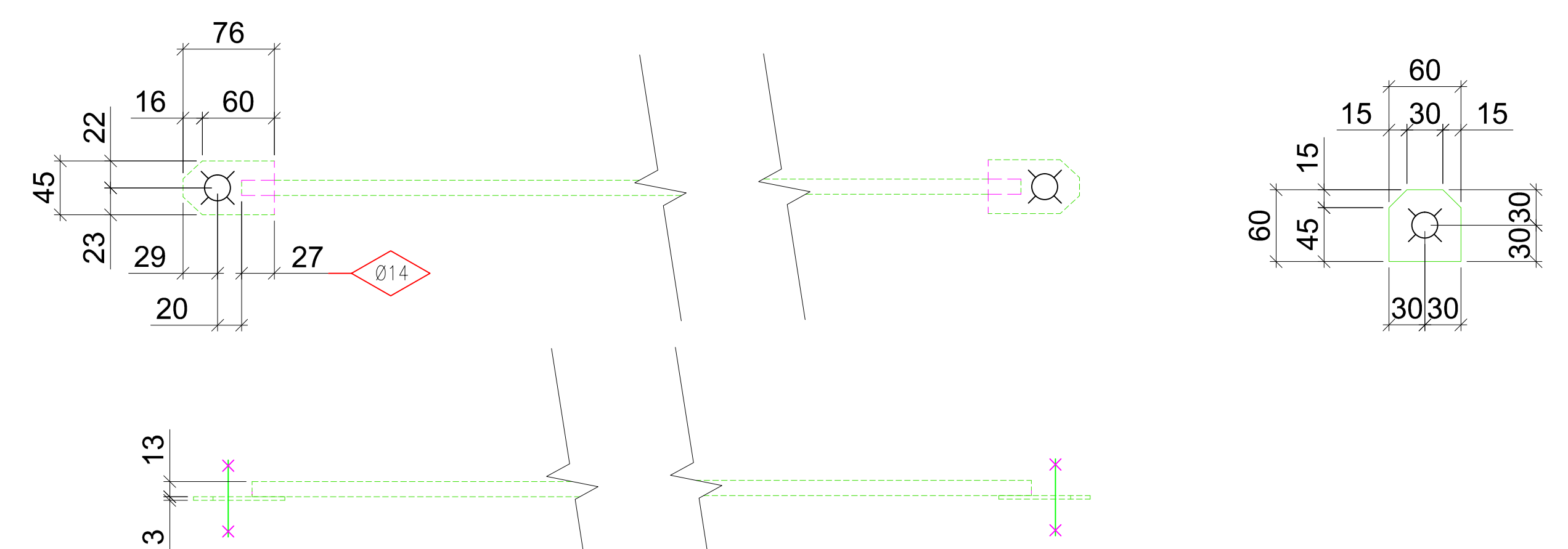
Detalhe ligação - Pilares e longarinas

esc: se



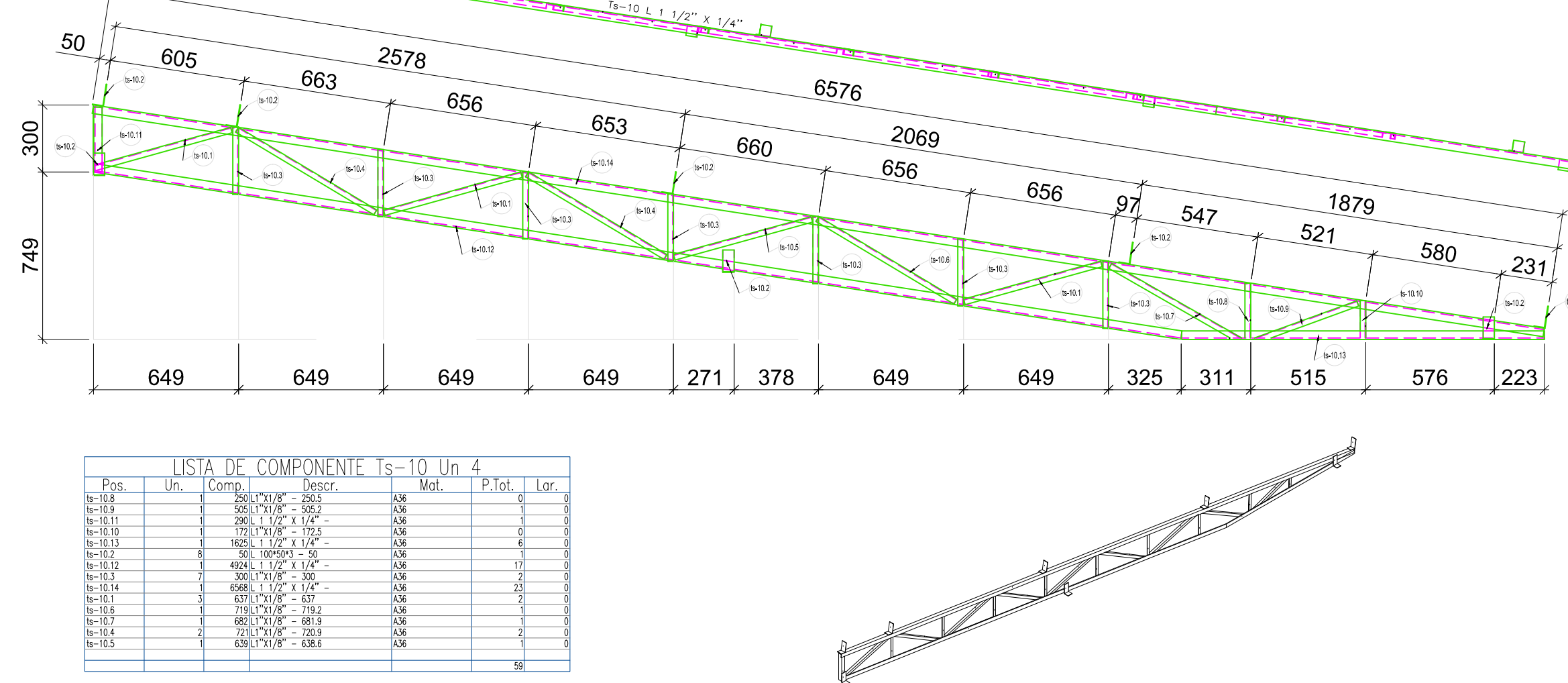
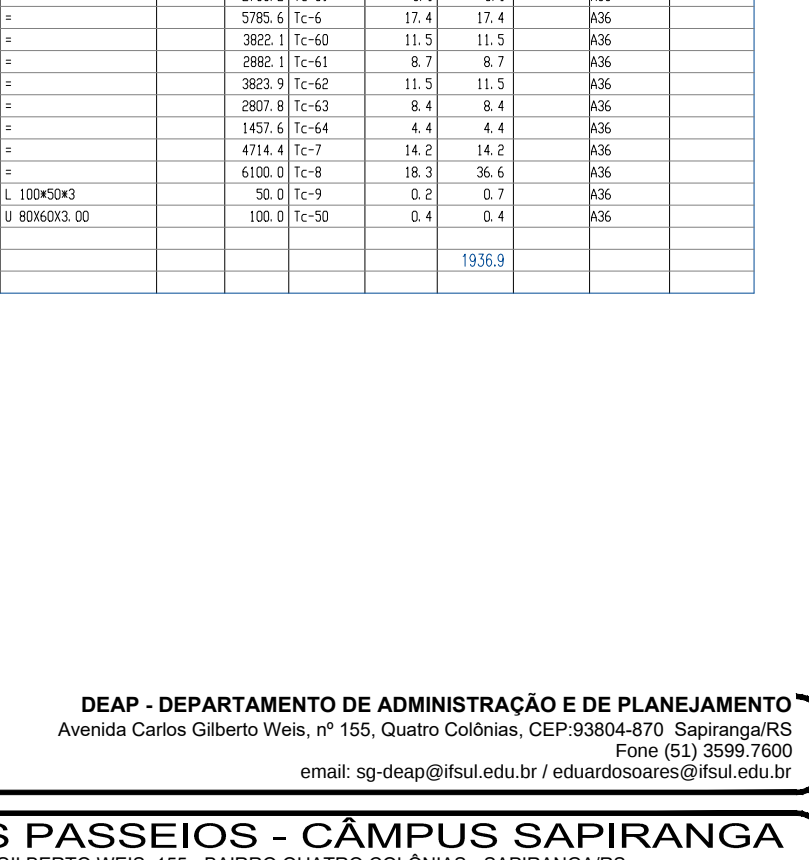
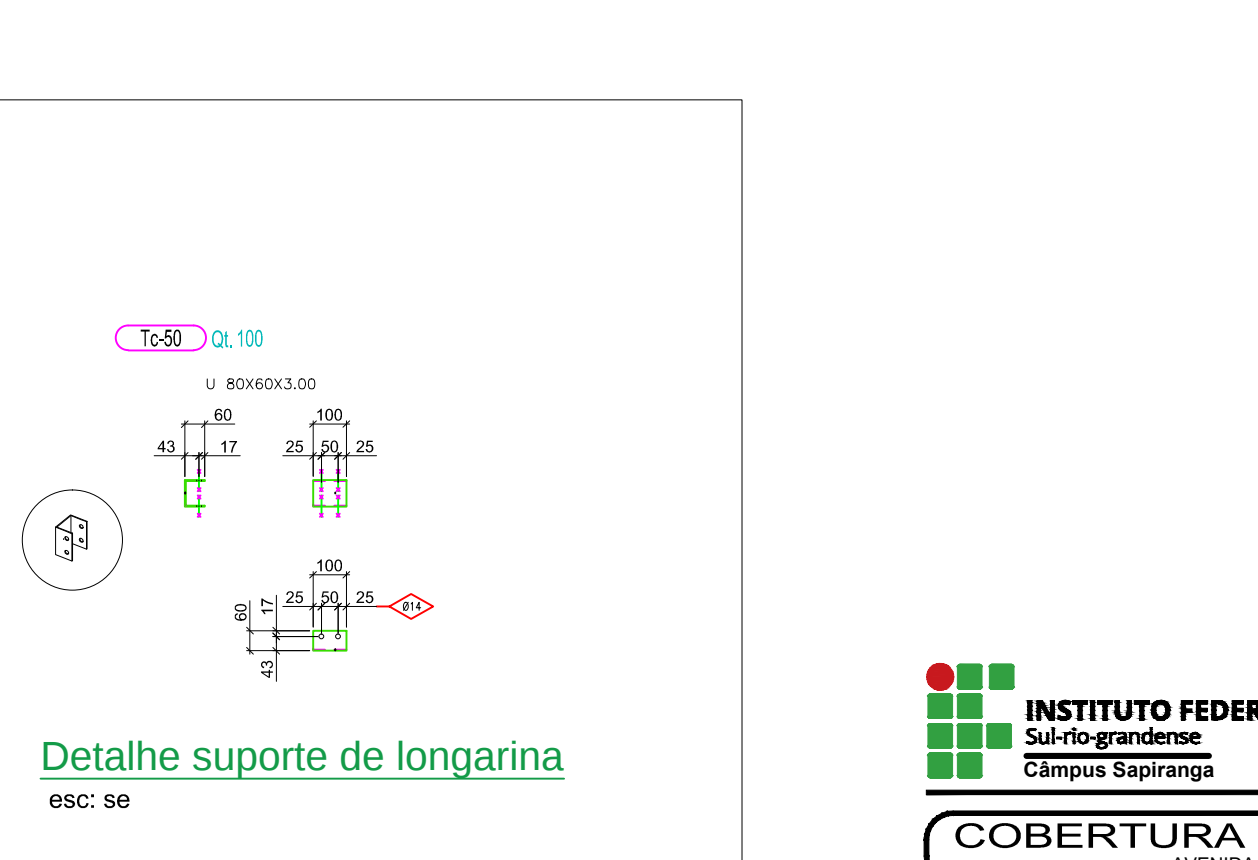
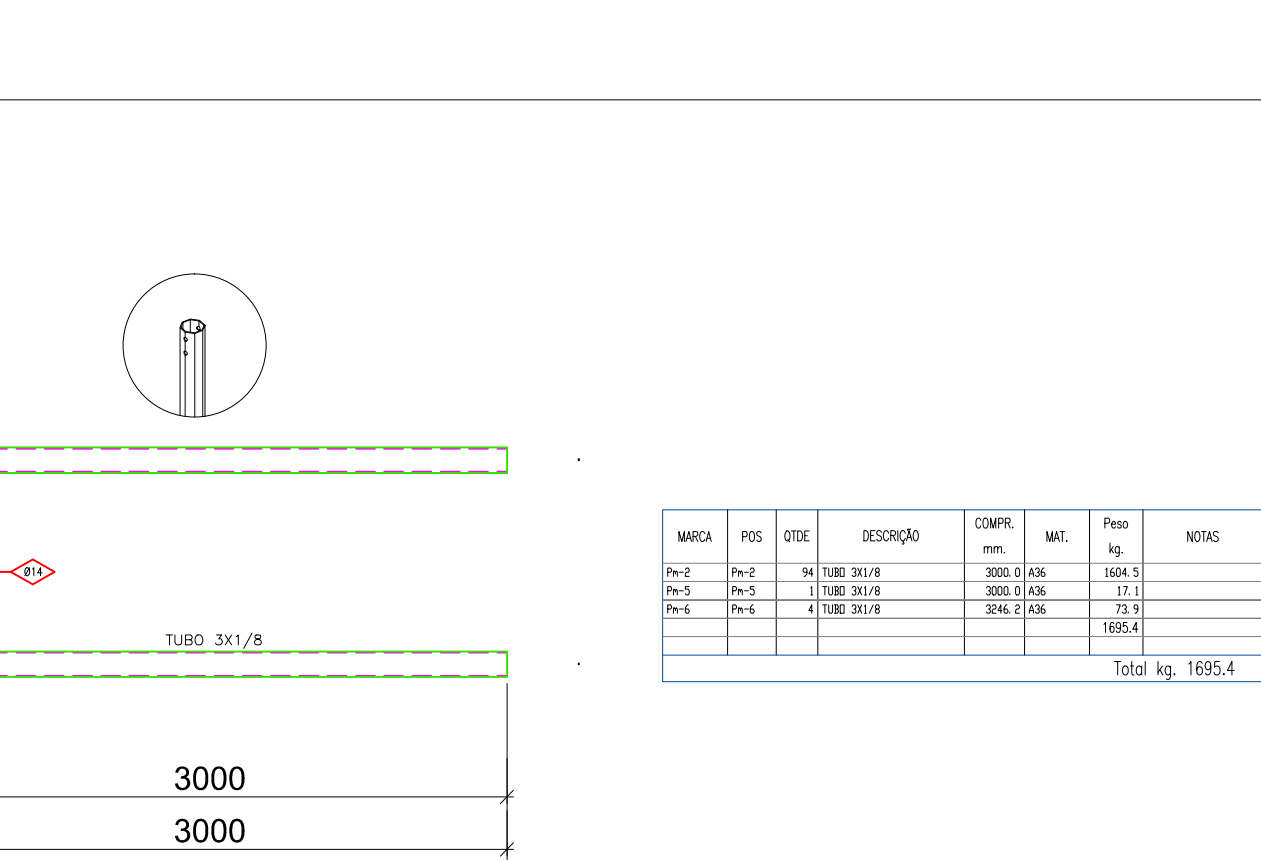
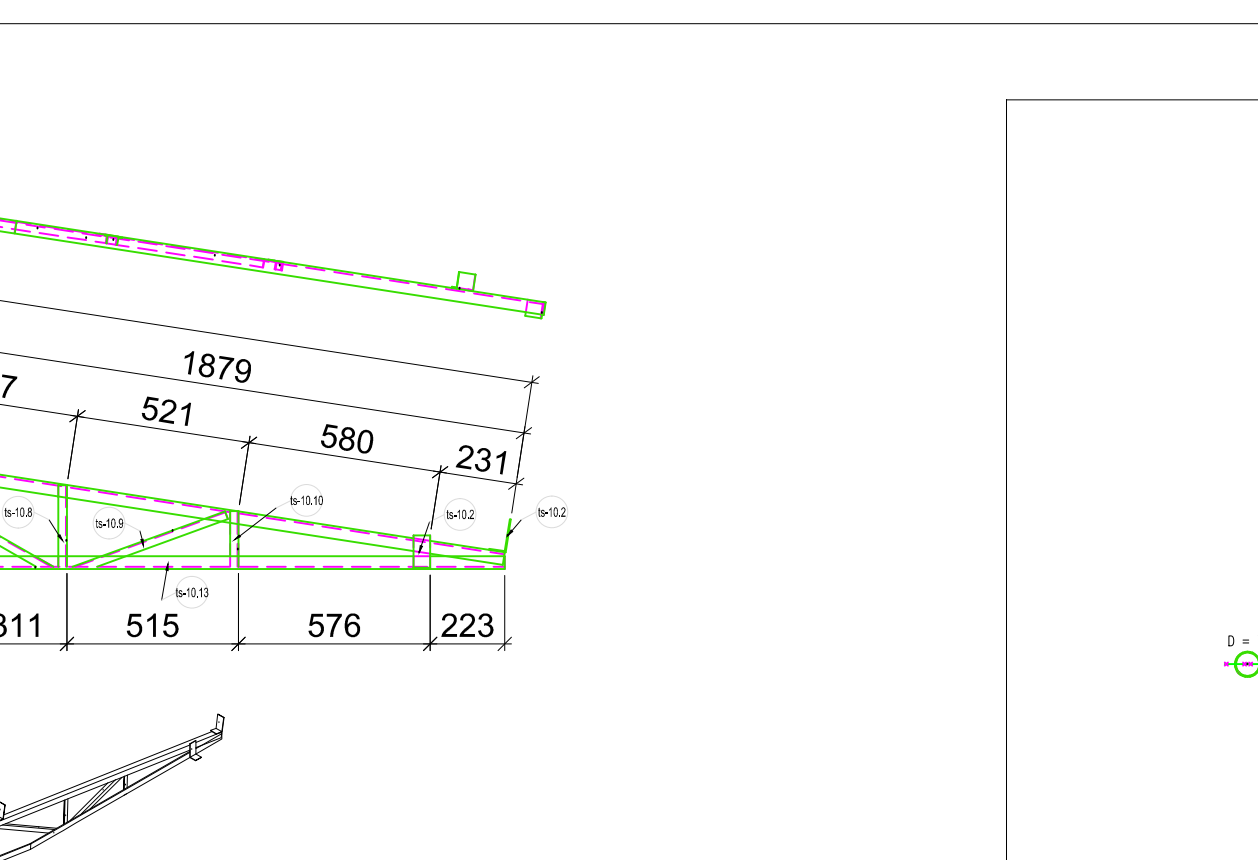
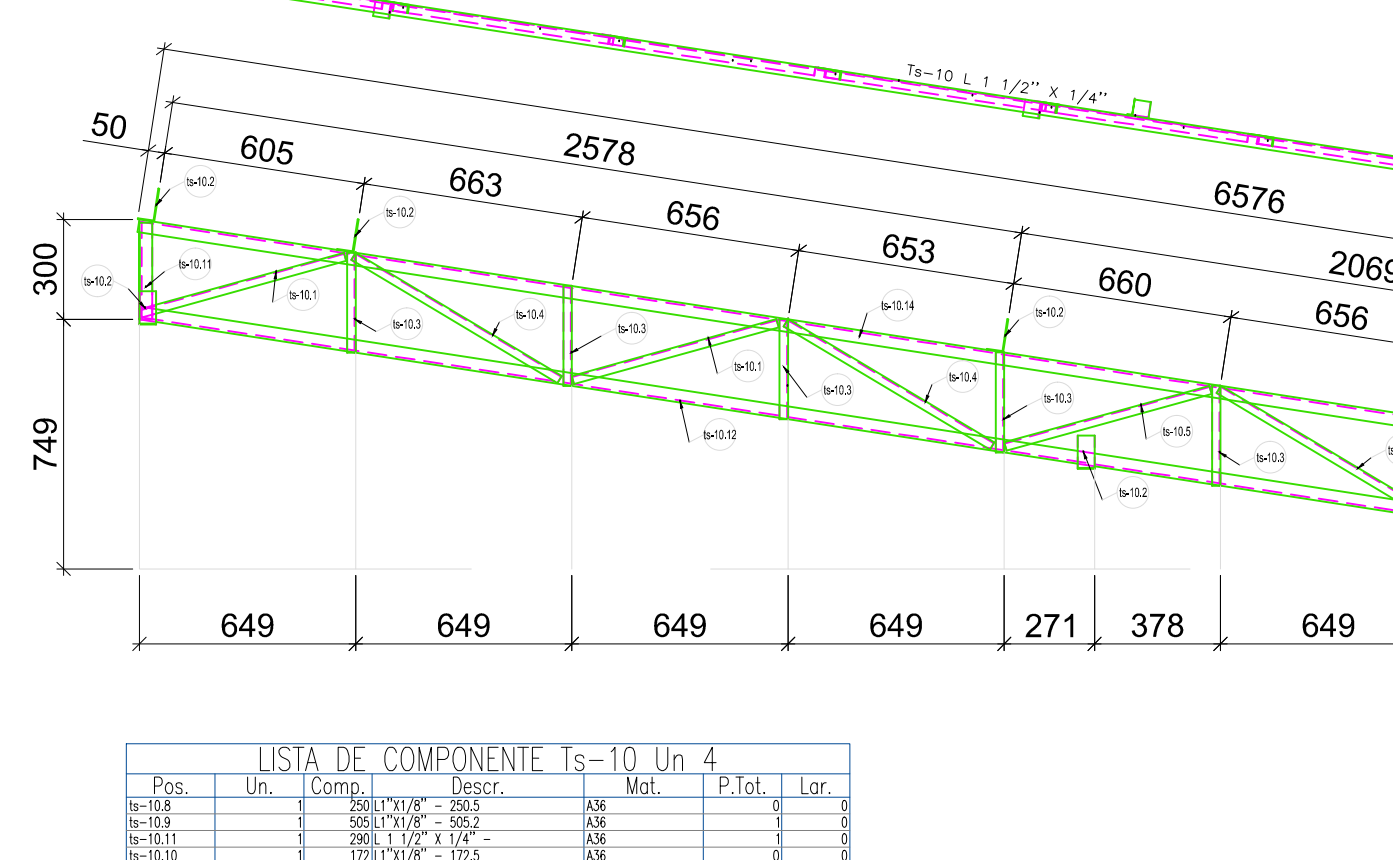
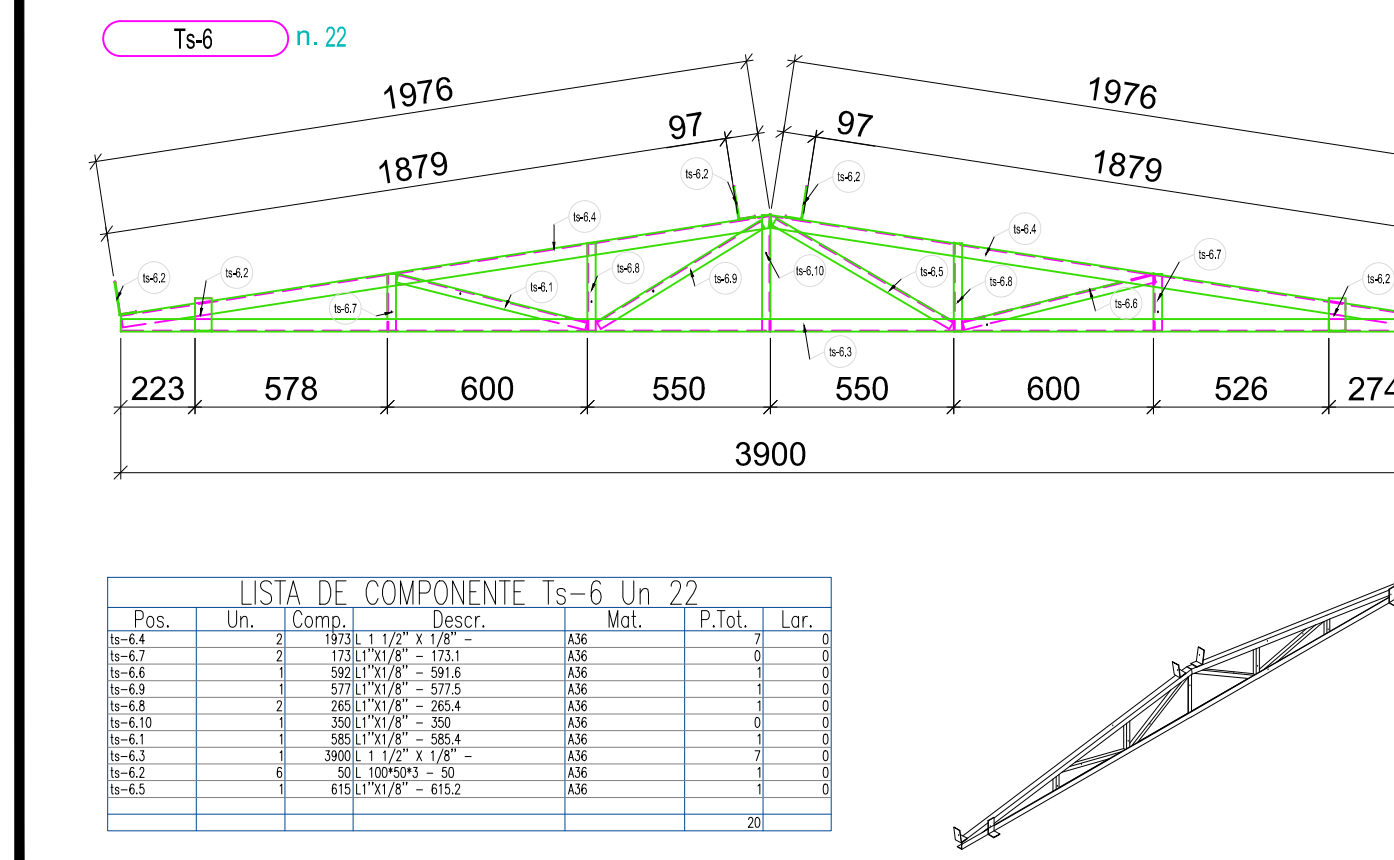
Detalhe ligação - Contraventos

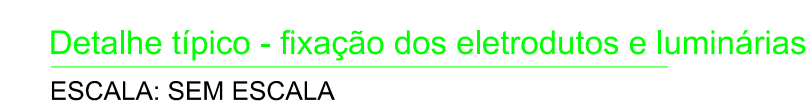
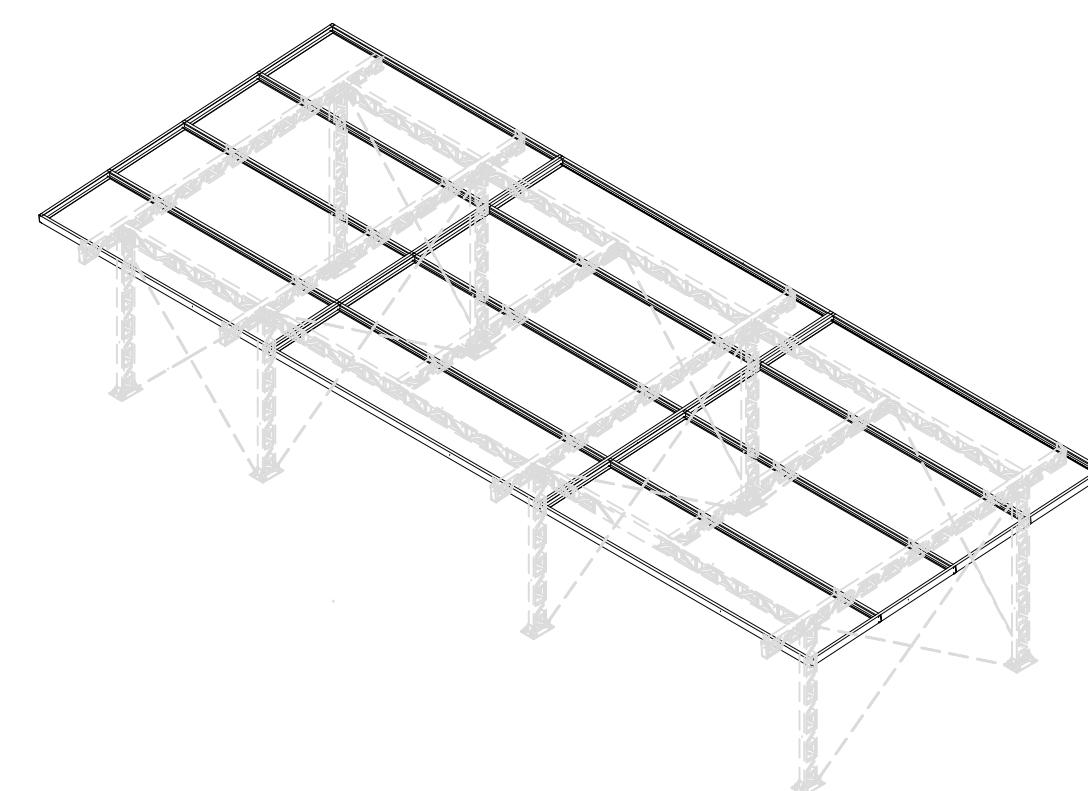
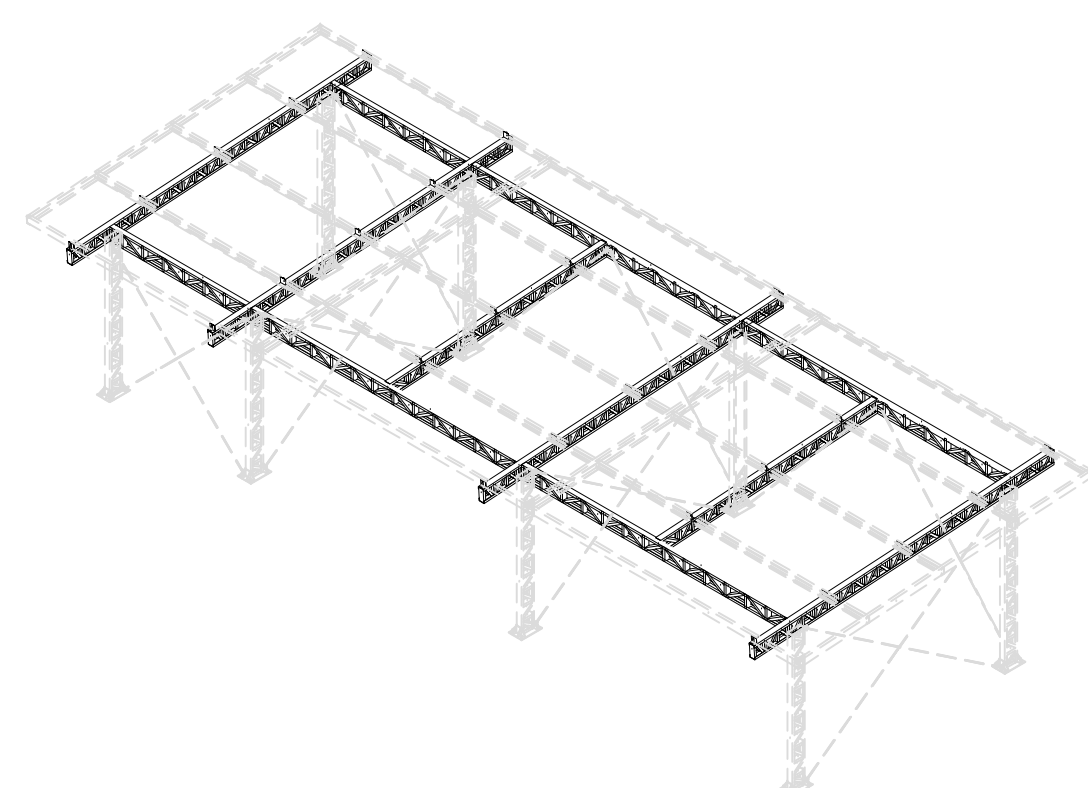
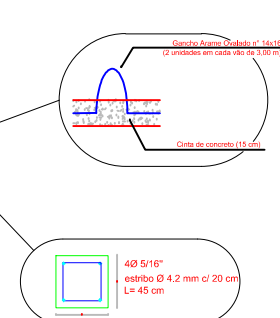
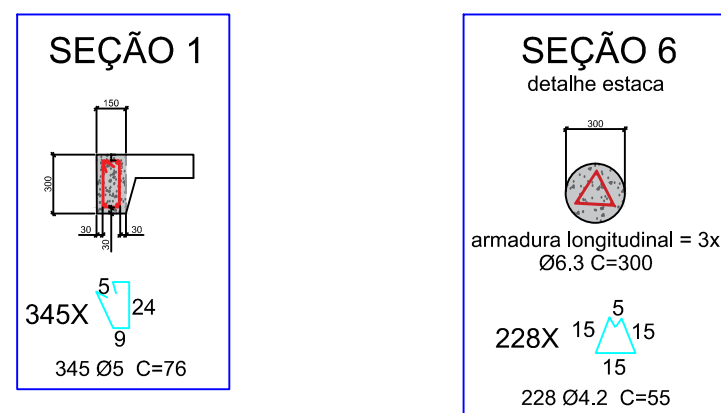
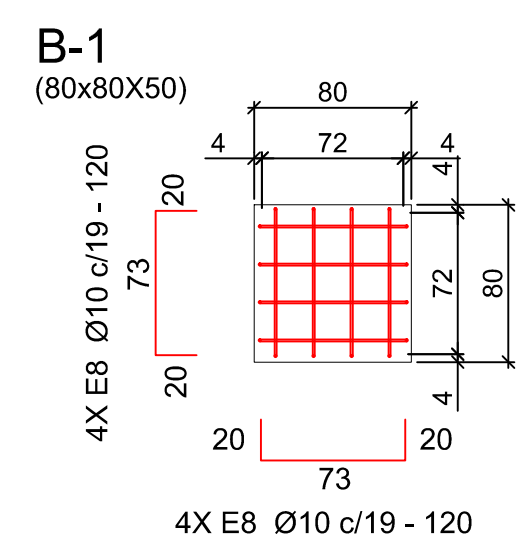
esc: se



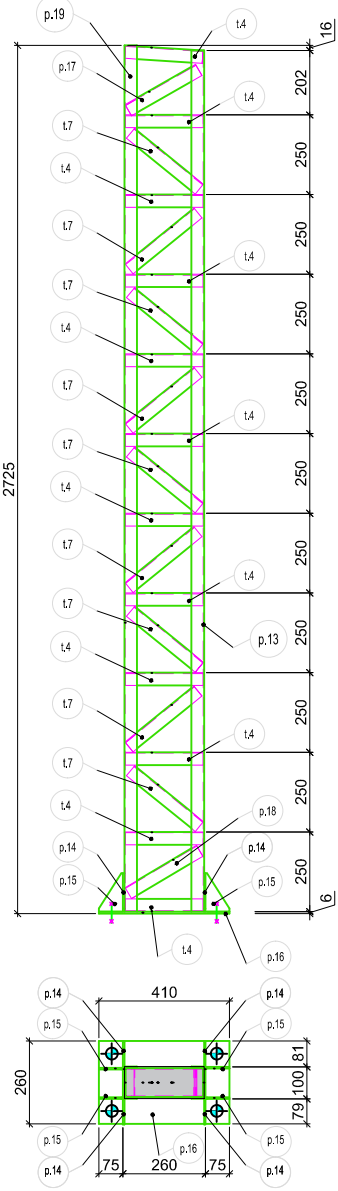
Detalhe ligação - Contraventos

esc: se

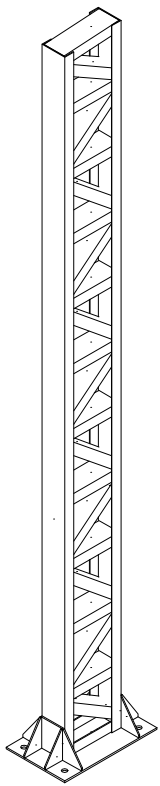




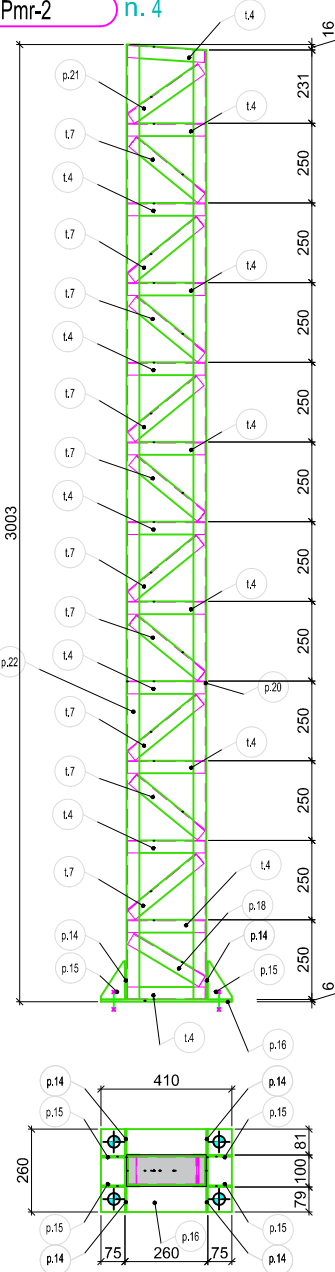
Pmr-1 n. 4



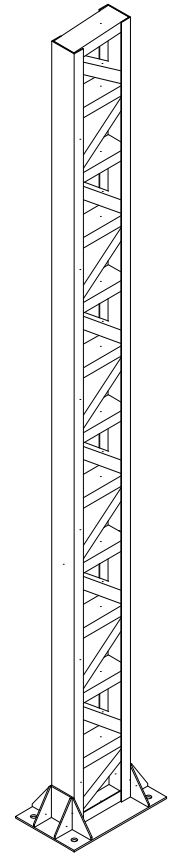
LISTA DE COMPONENTE Pmr-1 Un 4						
Pos.	Un.	Comp.	Descr.	Mat.	P.Tot.	Lar.
p.16	1	410 lam. 410x260x4	S235JR		5	260
p.17	1	255 U90X40X2.66 - 254.9	A36		1	0
p.18	1	260 U90X40X2.66 - 260.5	A36		1	0
p.19	1	2718 U100X40X2.66 - 2718	A36		10	0
p.13	1	2702 U100X40X2.66 - 2701	A36		10	0
p.14	12	244 U90X40X2.66 - 244	A36		10	0
p.14	2	260 lam. 260x120x4.8	S235JR		2	120
p.17	9	279 U90X40X2.66 - 279.1	A36		9	0
p.15	4	142 lam. 141.6x68.8x4.8	S235JR		1	69
					49	



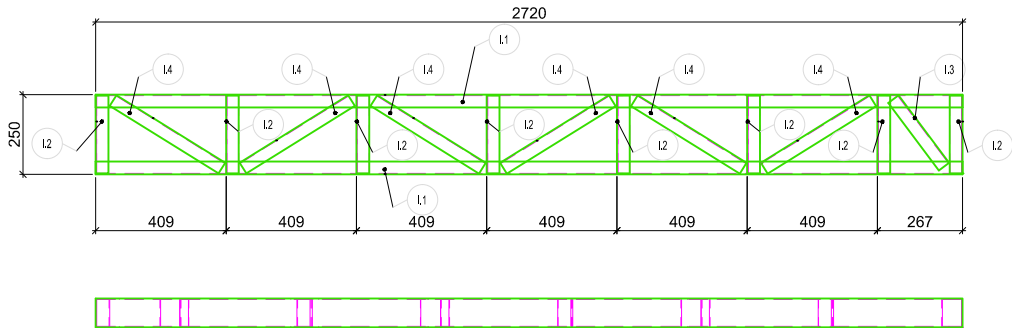
Pmr-2 n. 4



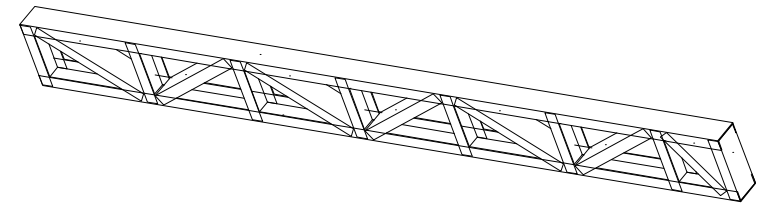
LISTA DE COMPONENTE Pmr-2 Un 4						
Pos.	Un.	Comp.	Descr.	Mat.	P.Tot.	Lar.
p.16	1	410 lam. 410x260x4	S235JR		5	260
p.22	1	2997 U100X40X2.66 - 2997	A36		11	0
p.18	1	260 U90X40X2.66 - 260.5	A36		1	0
p.14	13	244 U90X40X2.66 - 244	A36		11	0
p.21	1	270 U90X40X2.66 - 270.3	A36		1	0
p.14	2	260 lam. 260x120x4.8	S235JR		2	120
p.17	10	279 U90X40X2.66 - 279.1	A36		10	0
p.20	1	298 U100X40X2.66 - 298	A36		11	0
p.15	4	142 lam. 141.6x68.8x4.8	S235JR		1	69
					53	



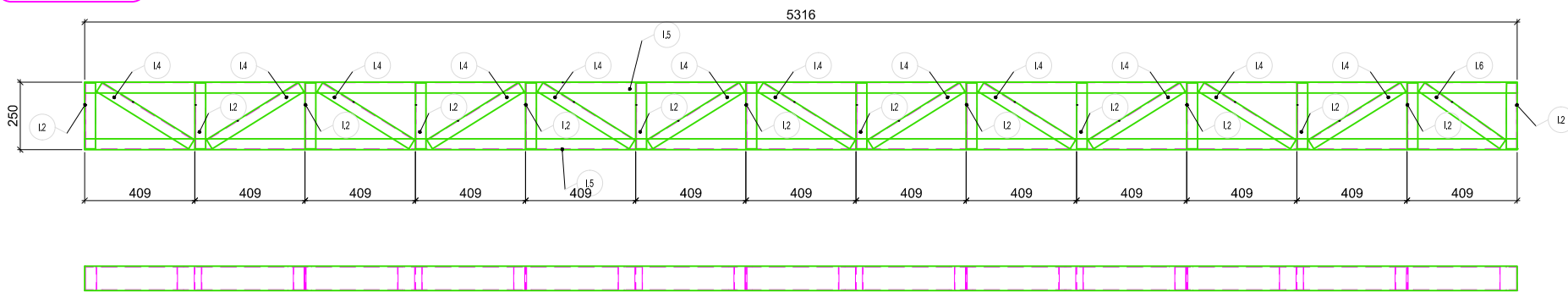
Lr-1 n. 2



LISTA DE COMPONENTE Lr-1 Un 2						
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L4	6	401 U90X40X2.66 - 401.4	A36		8	0
L1	2	2720 U90X40X2.66 - 2720.3	A36		19	0
L3	1	265 U90X40X2.66 - 265.1	A36		5	0
L2	8	244 U90X40X2.66 - 244	A36		7	0
					34	

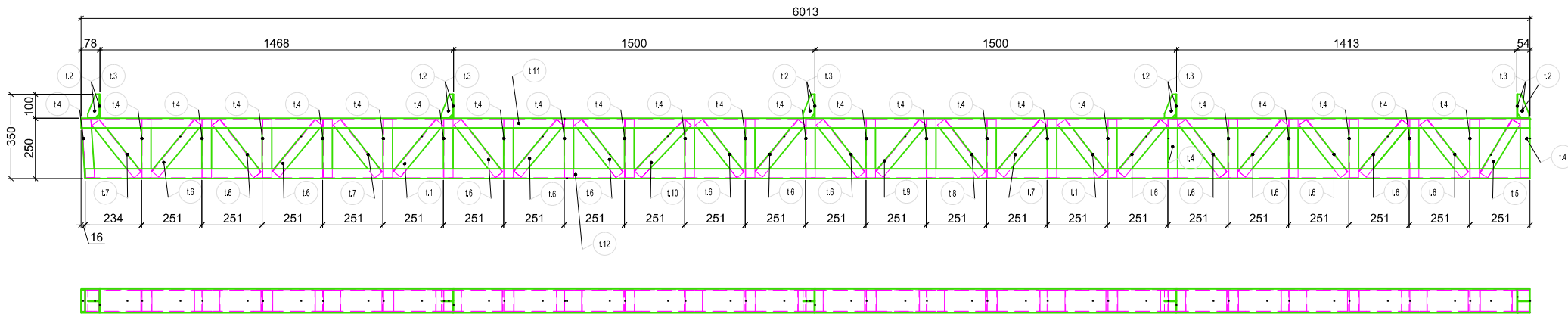


Lr-2 n. 4



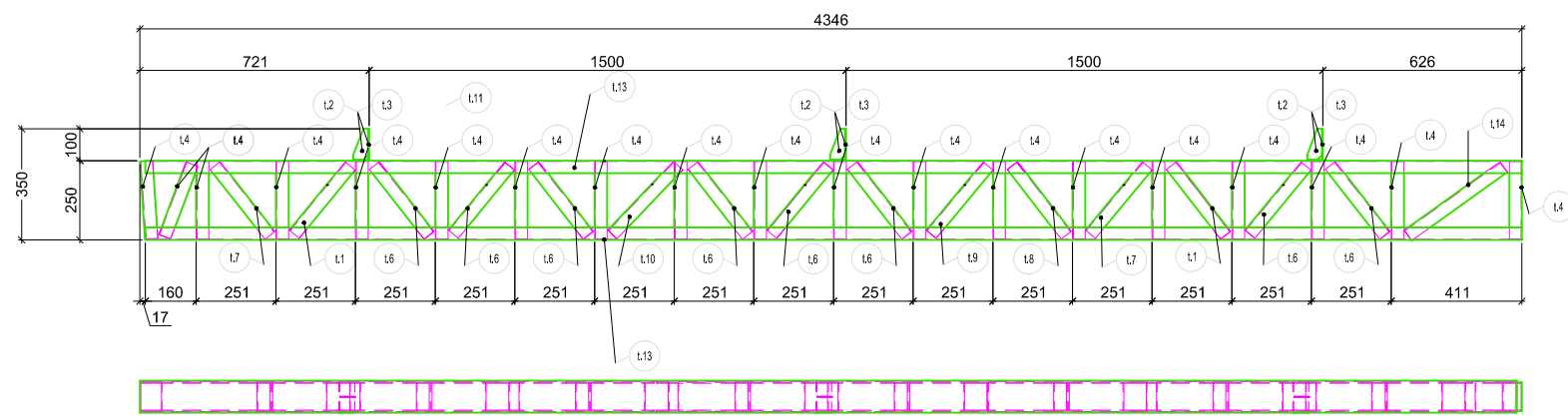
LISTA DE COMPONENTE Lr-2 Un 4						
Pos.	Un.	Comp.	Descr.	Mat.	P.Tot.	Lar.
L4	12	5316 U90X40X2.66 - 5316.3	A36		36	0
L4	1	401 U90X40X2.66 - 401.4	A36		16	0
L6	1	367 U90X40X2.66 - 367.1	A36		1	0
L2	14	244 U90X40X2.66 - 244	A36		12	0
					66	

Tsr-1 n. 4



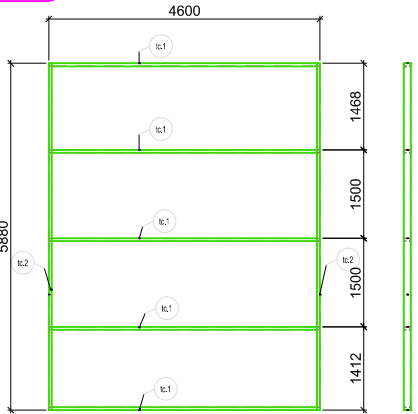
LISTA DE COMPONENTE Tsr-1 Un 4						
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L1	2	278 U90X40X2.66 - 277.5	A36		2	0
L3	5	100 U100X50X3 - 100	A36		2	0
L2	5	370 U90X40X2.66 - 369.7	A36		1	44
L10	1	300 U90X40X2.66 - 299.8	A36		1	0
L11	1	6013 U100X40X2.66 - 6012	A36		22	0
L12	1	5996 U100X40X2.66 - 5996	A36		21	0
L9	1	280 U90X40X2.66 - 279.7	A36		1	0
L8	1	277 U90X40X2.66 - 276.9	A36		1	0
L5	1	259 U90X40X2.66 - 258.9	A36		1	0
L4	27	244 U90X40X2.66 - 244	A36		22	0
L7	3	279 U90X40X2.66 - 279.1	A36		3	0
L6	15	278 U90X40X2.66 - 278.1	A36		14	0
					91	

Tsr-2 n. 2

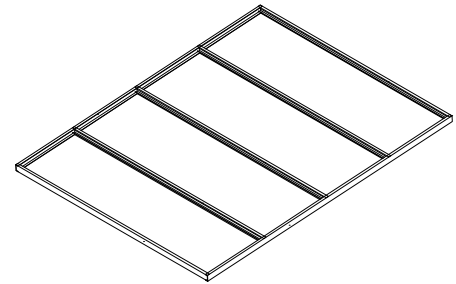


LISTA DE COMPONENTE Tsr-2 Un 2						
Pos.	Un.	Comp.	Descr.	Mat.	P.Tot.	Lar.
L1	2	278 U90X40X2.66 - 277.5	A36		2	0
L14	1	370 U90X40X2.66 - 369.7	A36		1	0
L3	3	100 U100X50X3 - 100	A36		1	0
L2	3	107 lam. 107.5x43.8x3	S235JR		0	44
L10	1	300 U90X40X2.66 - 299.8	A36		1	0
L13	2	4330 U100X40X2.66 - 4329	A36		31	0
L9	1	280 U90X40X2.66 - 279.7	A36		1	0
L8	1	277 U90X40X2.66 - 276.9	A36		1	0
L5	20	277 U90X40X2.66 - 276.9	A36		17	0
L4	2	244 U90X40X2.66 - 244	A36		2	0
L7	8	279 U90X40X2.66 - 279.1	A36		8	0
L6	8	278 U90X40X2.66 - 278.1	A36		8	0
					65	

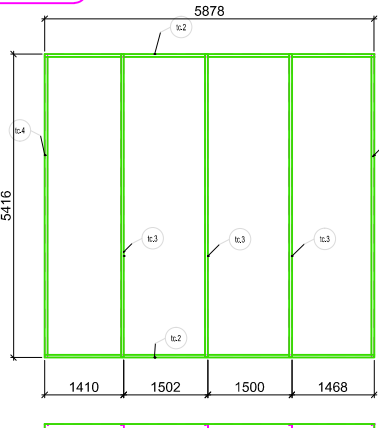
Tcr-1 n. 1



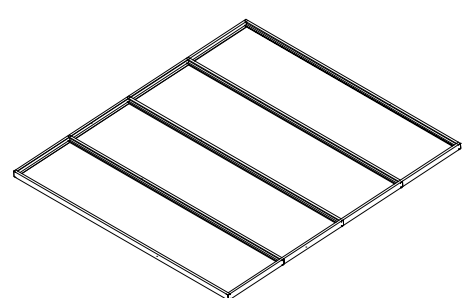
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Tc1	1	4600 lam. 4600x1468x4	A36		69	0
Tc2	1	1500 lam. 1500x1468x4	A36		39	0
					108	



Tcr-2 n. 2



LISTA DE COMPONENTE Tcr-2 Un 2						
Pos.	Un.	Comp.	Descr.	Mat.	P.Tot.	Lar.
Tc1	2	5878 lam. 5878x5416x4	A36		84	0
Tc2	2	1500 lam. 1500x5416x4	A36		39	0
					144	



INSTITUTO FEDERAL
Sul-rio-grandense
Câmpus Sapiiranga

DEAP - DEPARTAMENTO DE ADMINISTRAÇÃO E DE PLANEJAMENTO
Avenida Carlos Gilberto Weis, nº 155 - Bairro Colônias, CEP:93804-870 Sapiiranga/RS
Fone (51) 3599.7600
email: sg-deap@ifsul.edu.br / eduardosoaes@ifsul.edu.br

COBERTURA DOS PASSEIOS - CÂMPUS SAPIIRANGA
AVENIDA CARLOS GILBERTO WEIS, 155 - BAIRRO QUATRO COLÔNIAS - SAPIIRANGA/RS

PROJETO DE MANUTENÇÃO /AMPLIAÇÃO

GARAGEM - FABRICAÇÃO DE COMPONENTES

DESENHO
EDUARDO RAYHER SOARES

DATA
ABRIL/2026

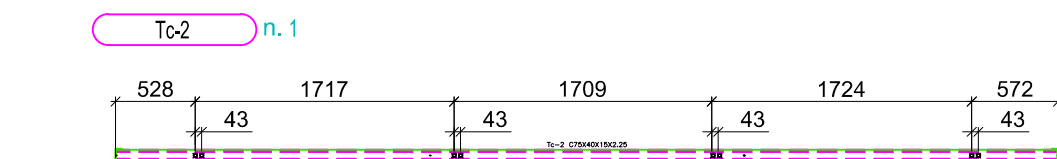
ESCALA
INDICADA

PRANCHA
PRO 06/09

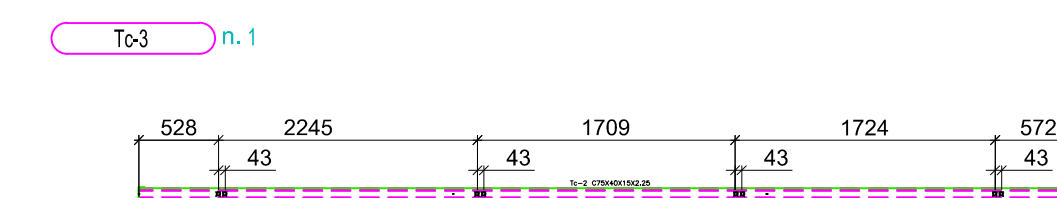
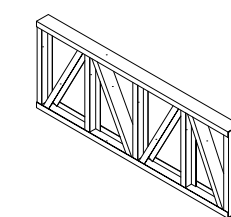
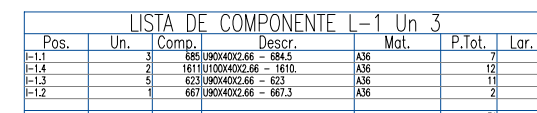
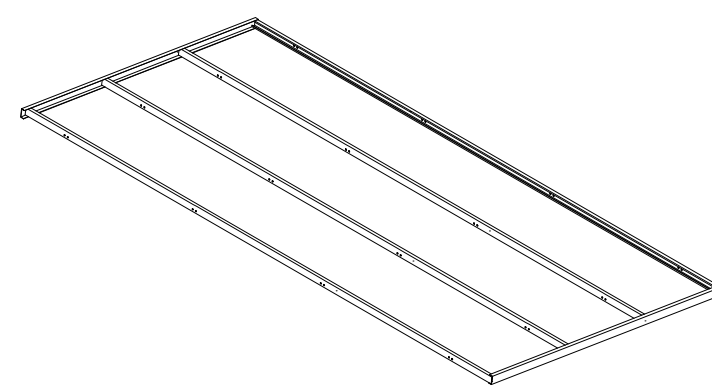
ÁREA DA OBRA
682,00m²

VISTO
Marina Lange

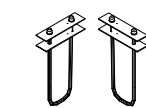
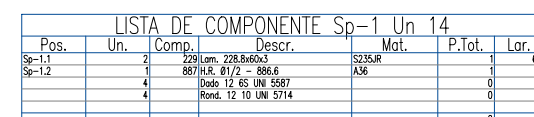
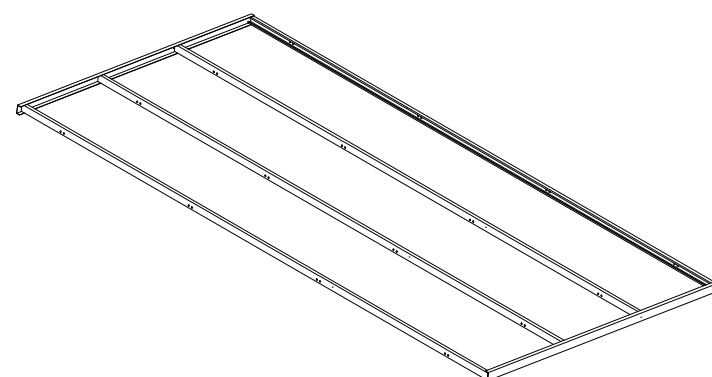
OBRA
CSA 001/2026



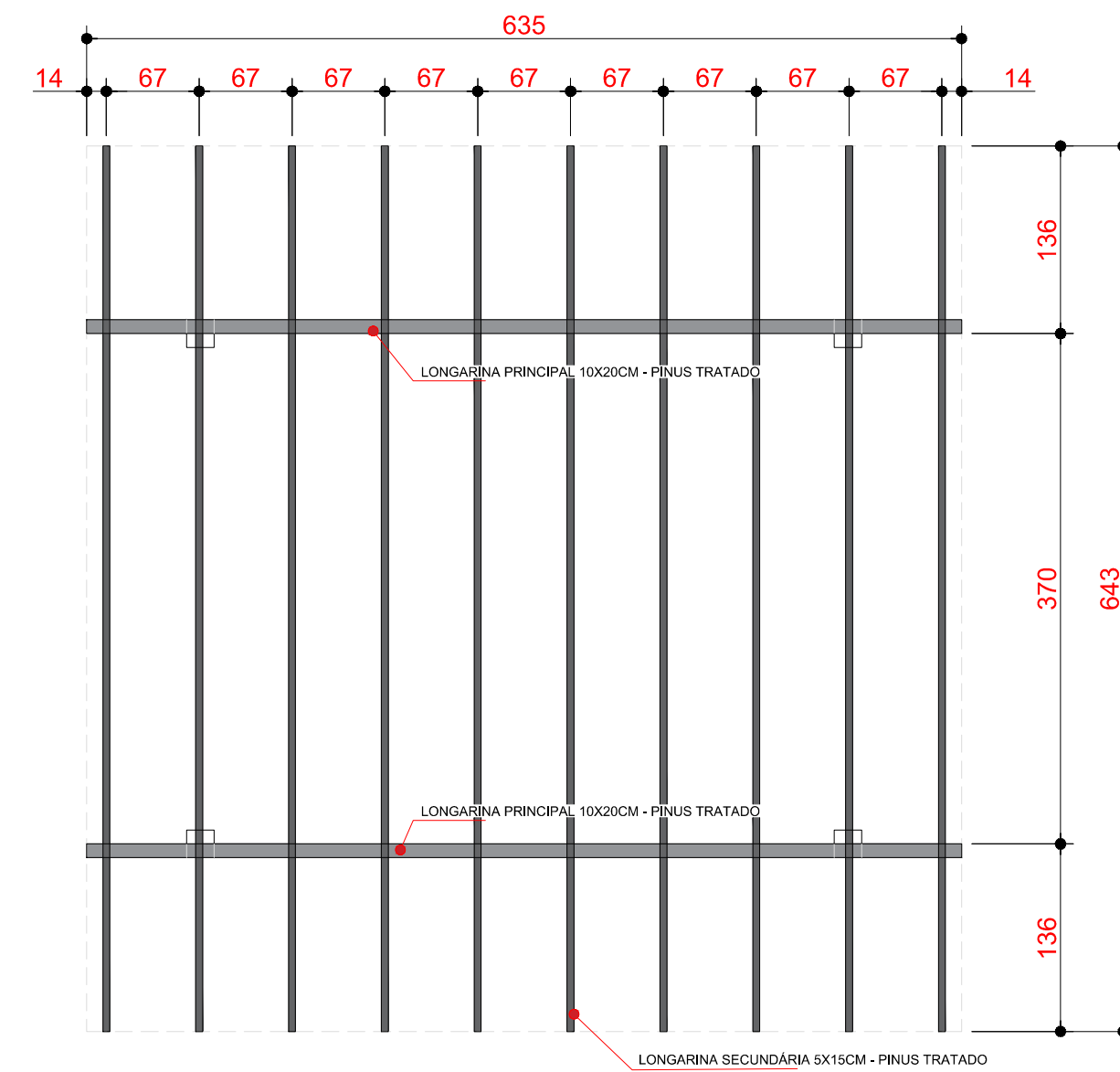
LISTA DE COMPONENTE Tc-2 Un 1						
Pos.	Un.	Comp.	Descr.	Mat.	P.Tot.	Lor.
16-2.1	1	3114	09004002.66 = 3114	A36	11	(1)
16-2.3	1	6244	C75040011502.25 = 624	A36	75	(1)
16-2.2	1	3174	09004002.66 = 3174	A36	11	(1)
						97



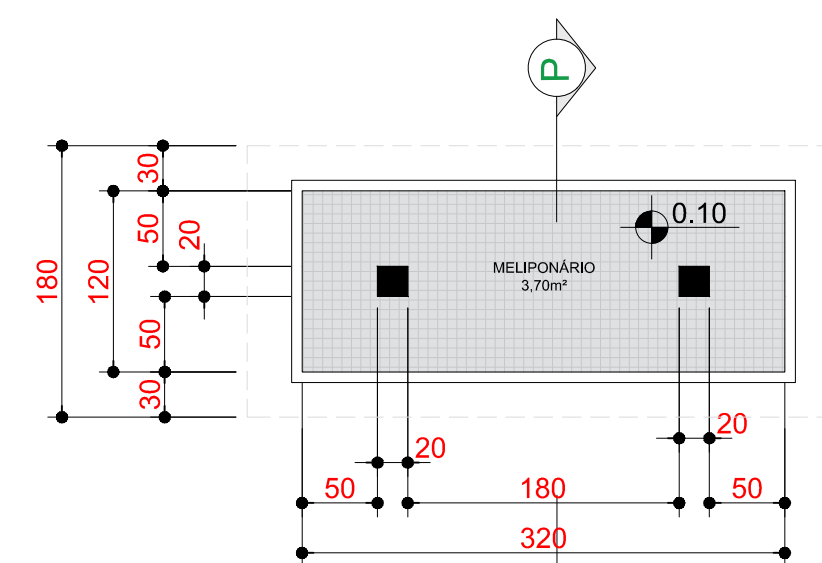
LISTA DE COMPONENTE Tc-3 Un 1						
Pos.	Un.	Comp.	Descr.	Mat.	P.Tot.	Lar.
1c-3.1	1	3114	U90C4002.66 - 3114	A36	11	0
1c-3.2	1	3174	U90C4002.66 - 3174	A36	11	0
1c-3.3	4	6244	C75S401X15Q2.25 - 624	A36	75	0
						0



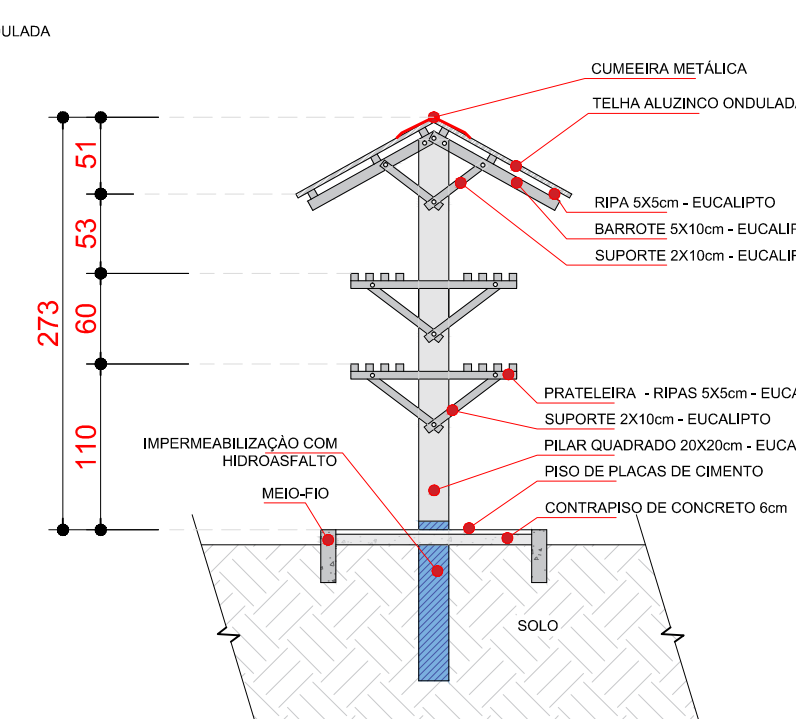
	Relé Fotoeletrico(h=3,00m)
	Interruptor simples (h=1,20m)
	Tomada 2p+1 20A h=1,5m - Sobrepor
	Lumin. p/ lâmp. LED 2x18w
	Quadro de Força e Luz (h=1,50m)
	Condutores neutro, fase, retorno e terra
	Caixa de passagem
	Eletroduto de PVC sobreposto
	Eletroduto de PVC embaixo do contra piso e/ou solo



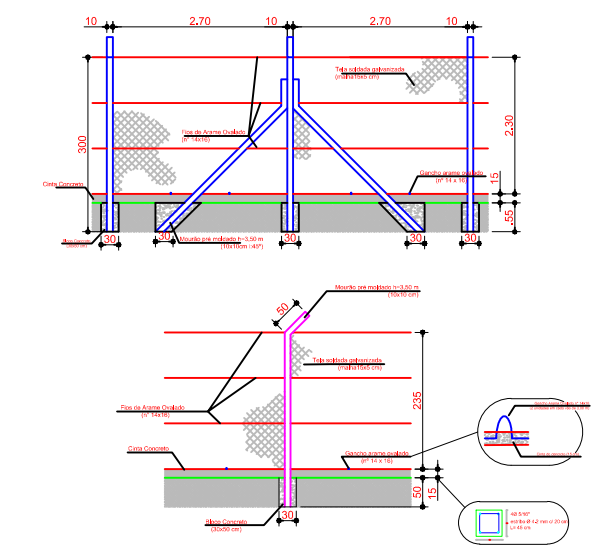
PERGOLADO - PLANTA DE COBERTURA
A=40,80m² esc: 1/50



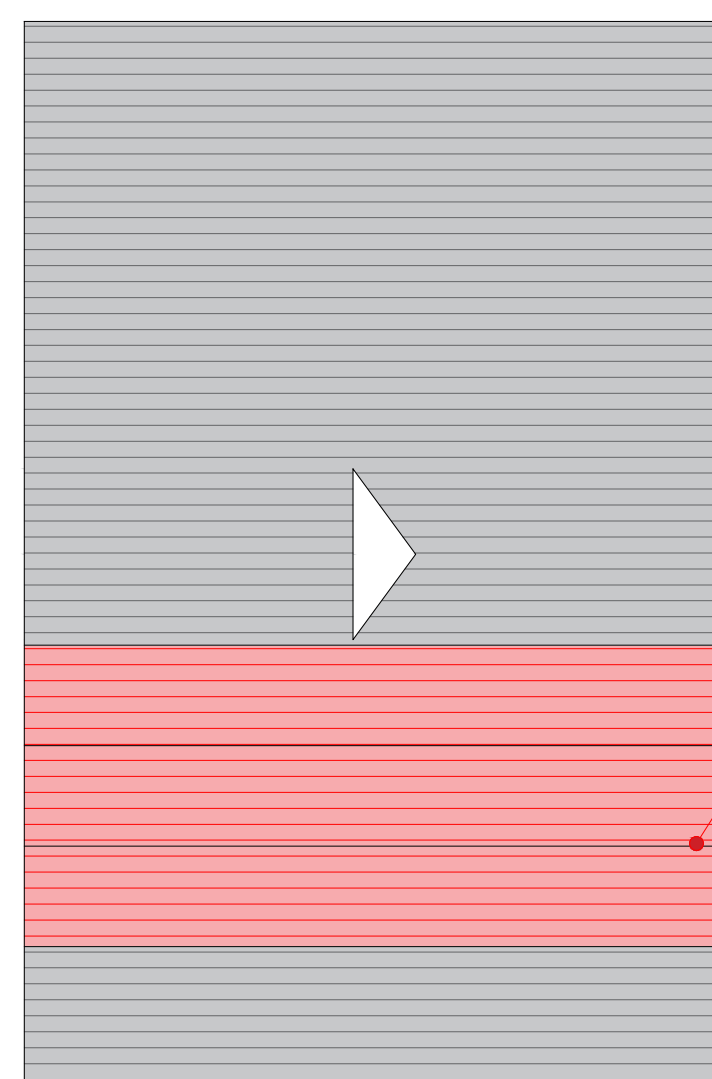
MELIPONÁRIO - PLANTA BAIXA



Corte P-P
esc: 1/50

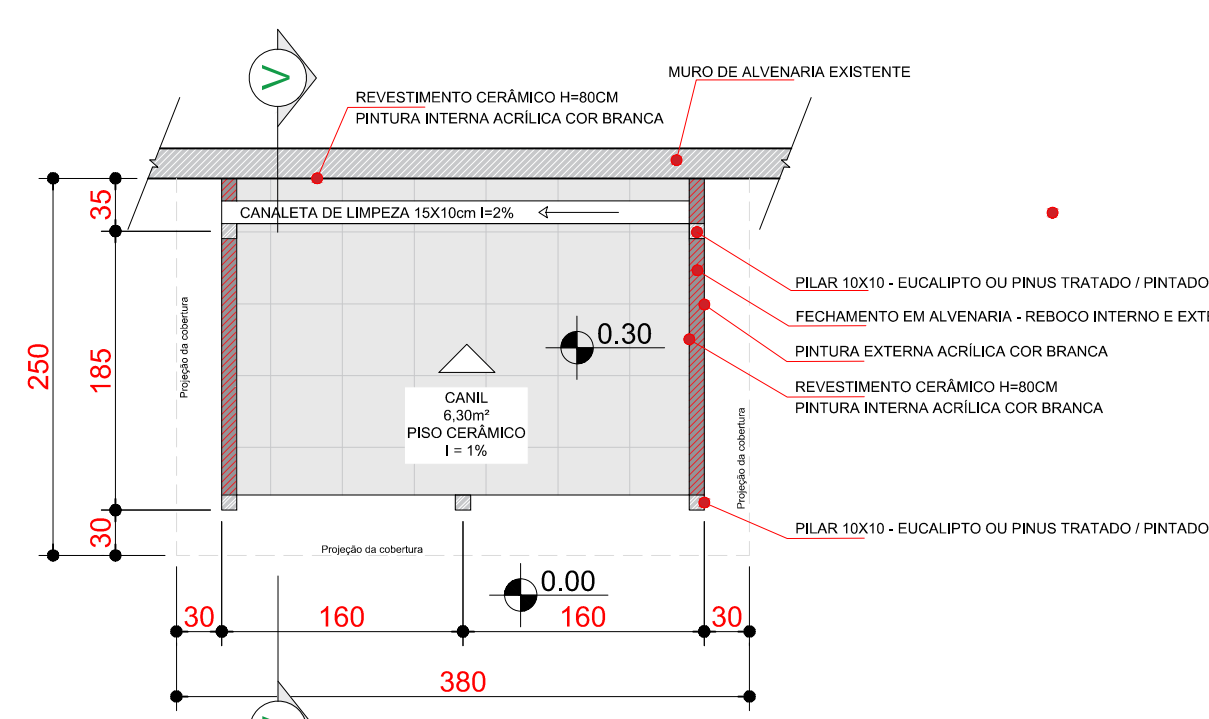


MELIPONÁRIO - PLANTA COBERTURA
A=3,70m² esc: 1/50

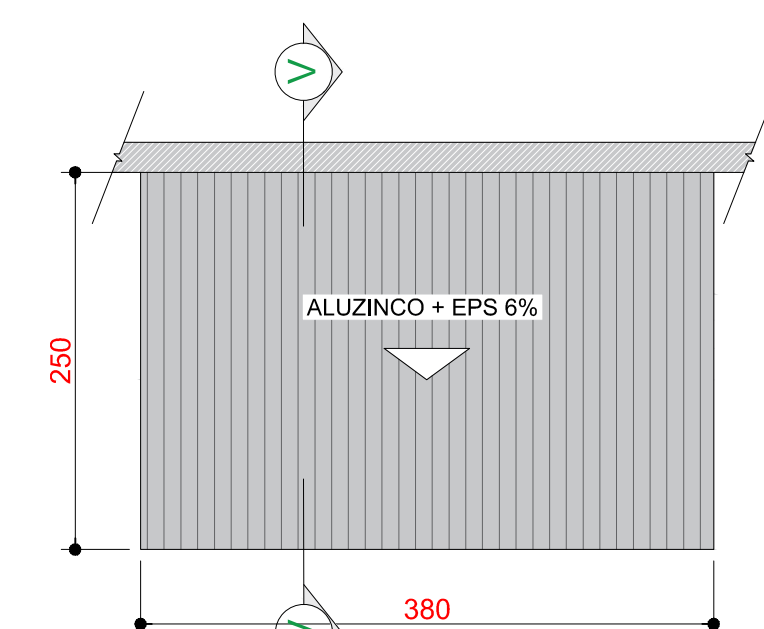


SALA MODULAR 401 - PLANTA COBERTURA
A=21,71m² CONFERIR IN LOCO esc: 1/75

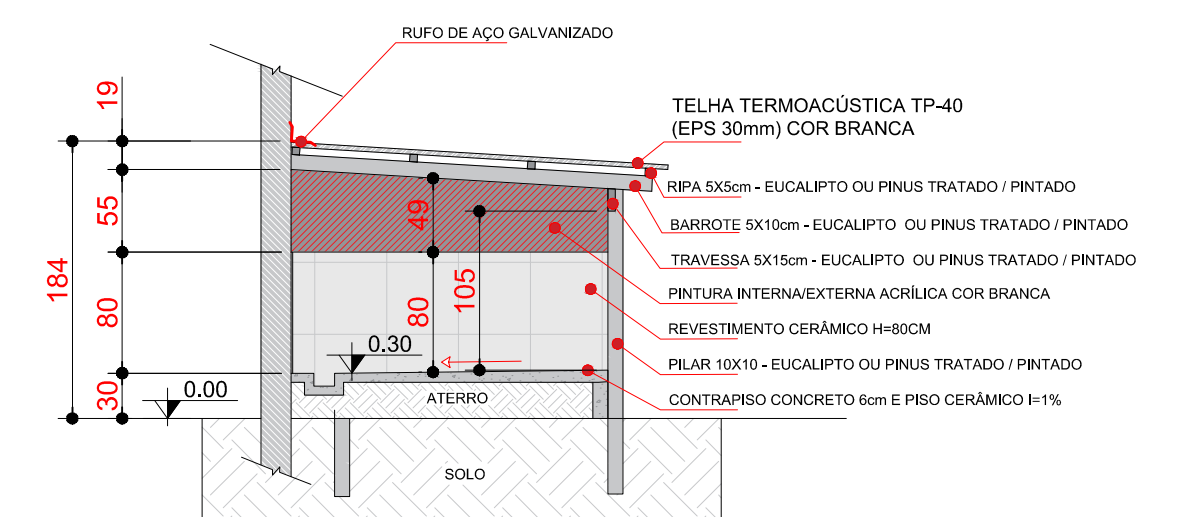
SALA MODULAR 402 - PLANTA DE COBERTURA
A=21,71m² CONFERIR IN LOCO esc: 1/75



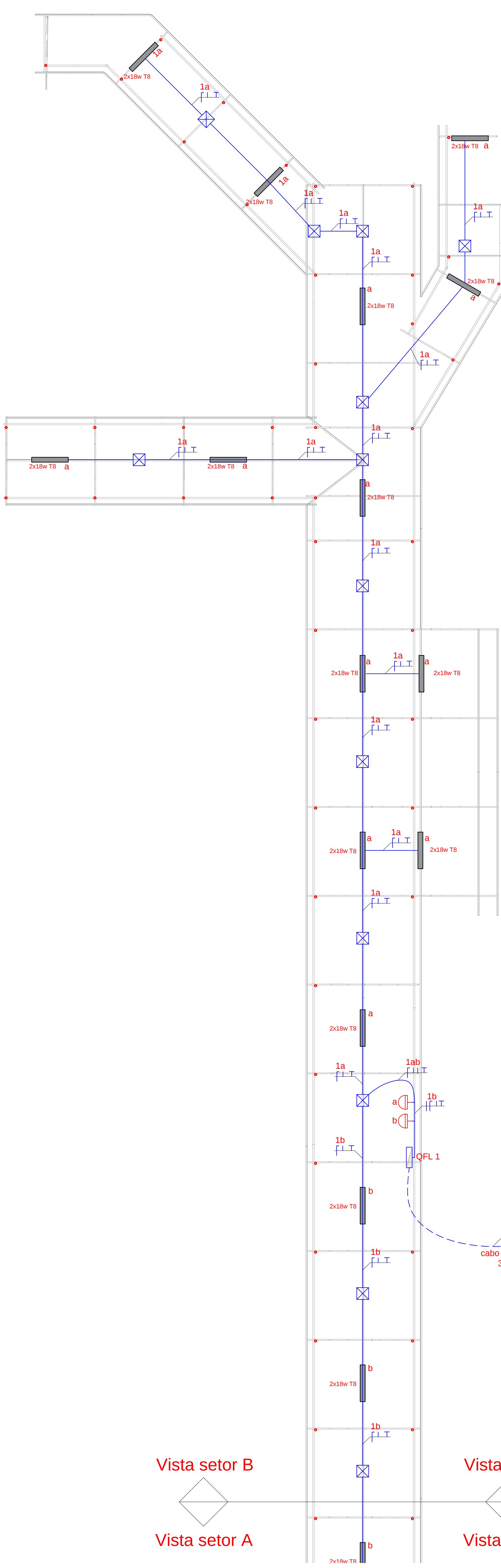
CANIL - PLANTA BAIXA
A=6,30m² esc: 1/50



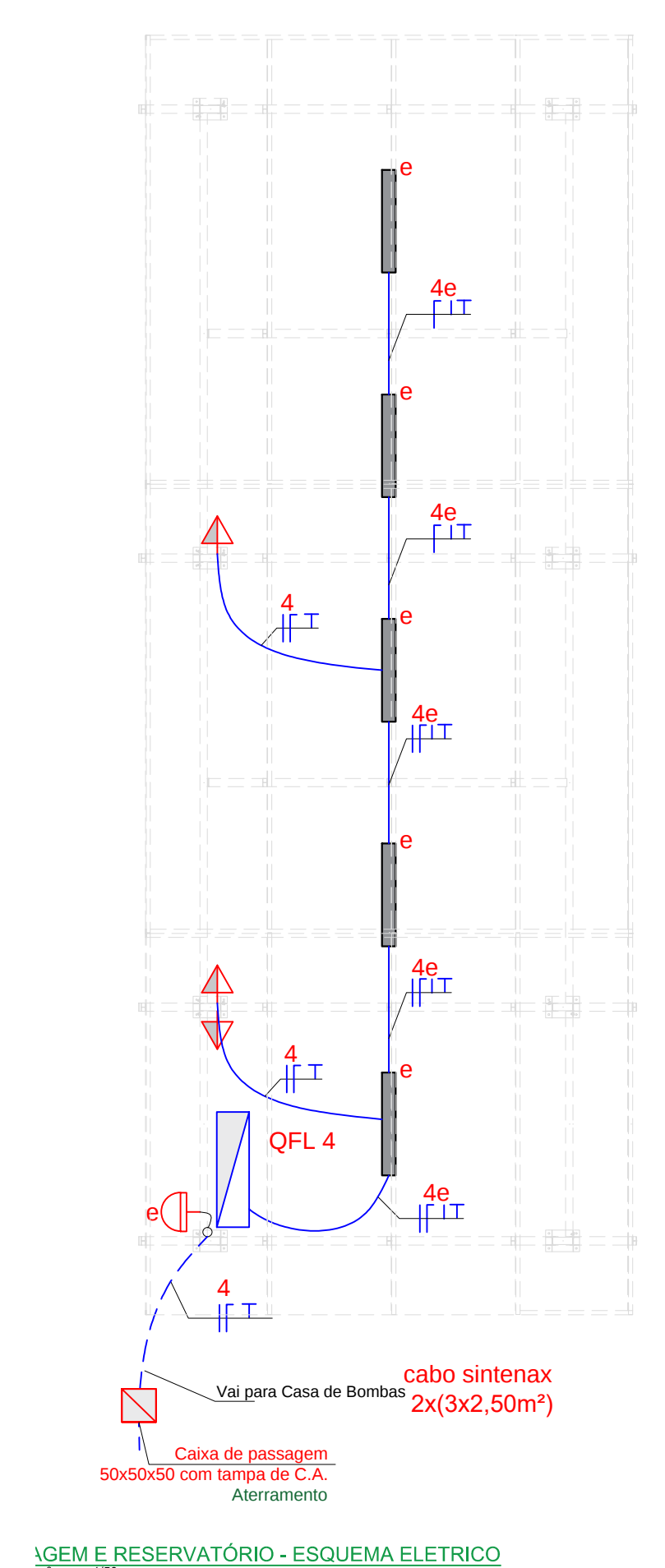
CANIL - PLANTA COBERTURA
A=6.30m² esc: 1/50



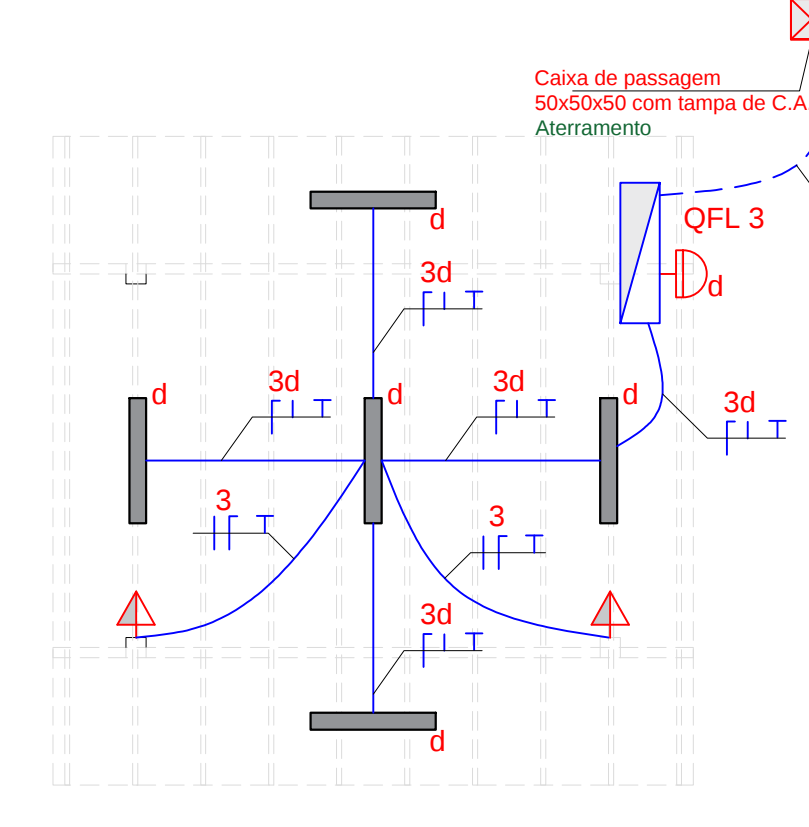
Corte V-V
esc: 1/50



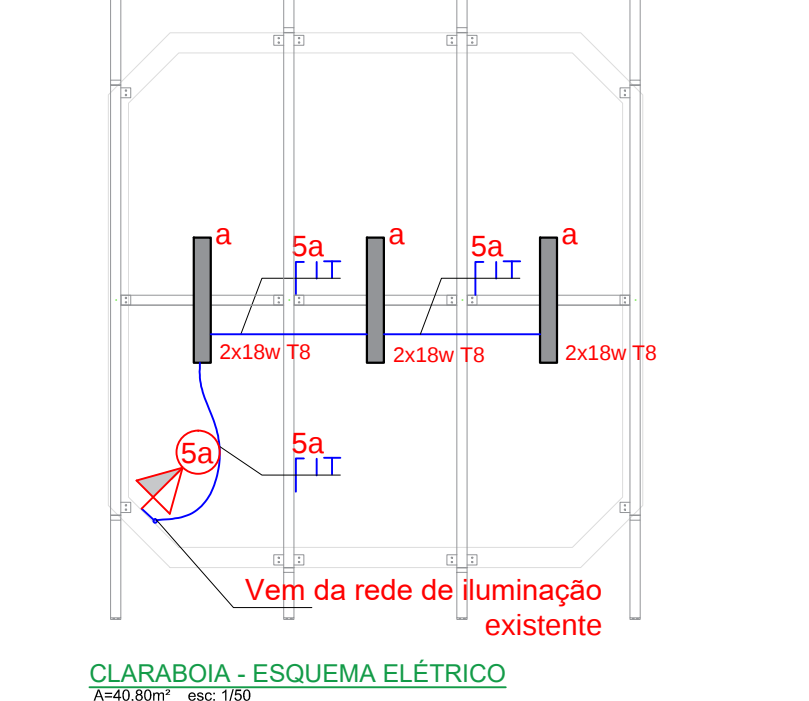
SETOR B - PROJETO ELETRICO - ESQUEMA UNIFILAR
ESCALA: SE



VEM E RESERVATÓRIO - ESQUEMA ELETRICO
ESCALA: SE



PERGOLADO - PLANTA DE COBERTURA
A=42.80m² ESC: 1/50

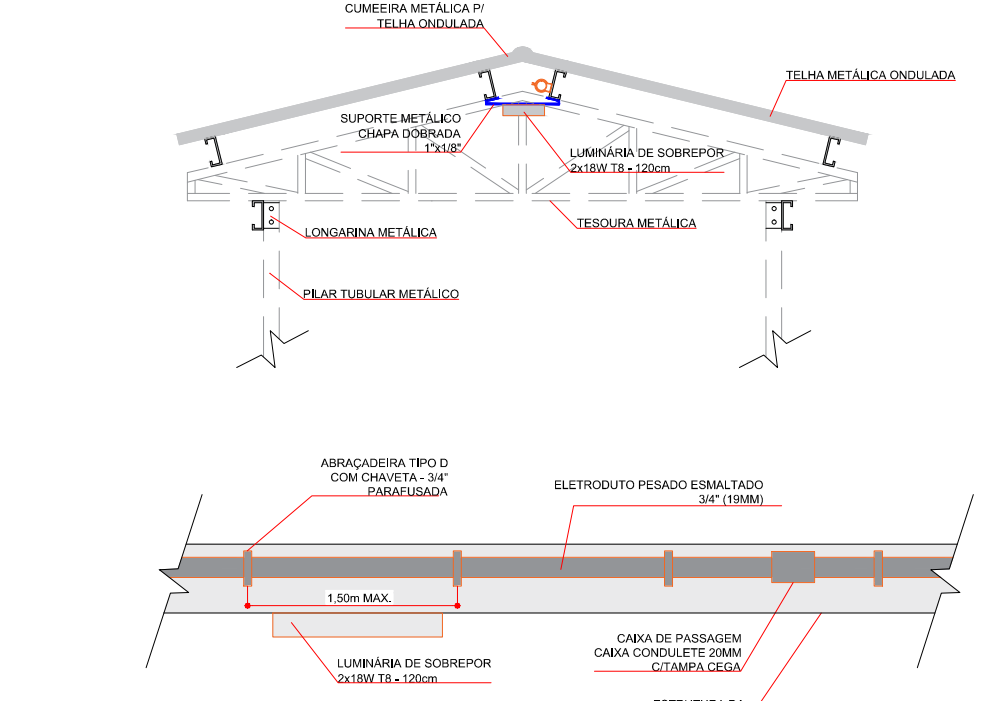


CLARABOIA - ESQUEMA ELETRICO
A=20.80m² ESC: 1/50

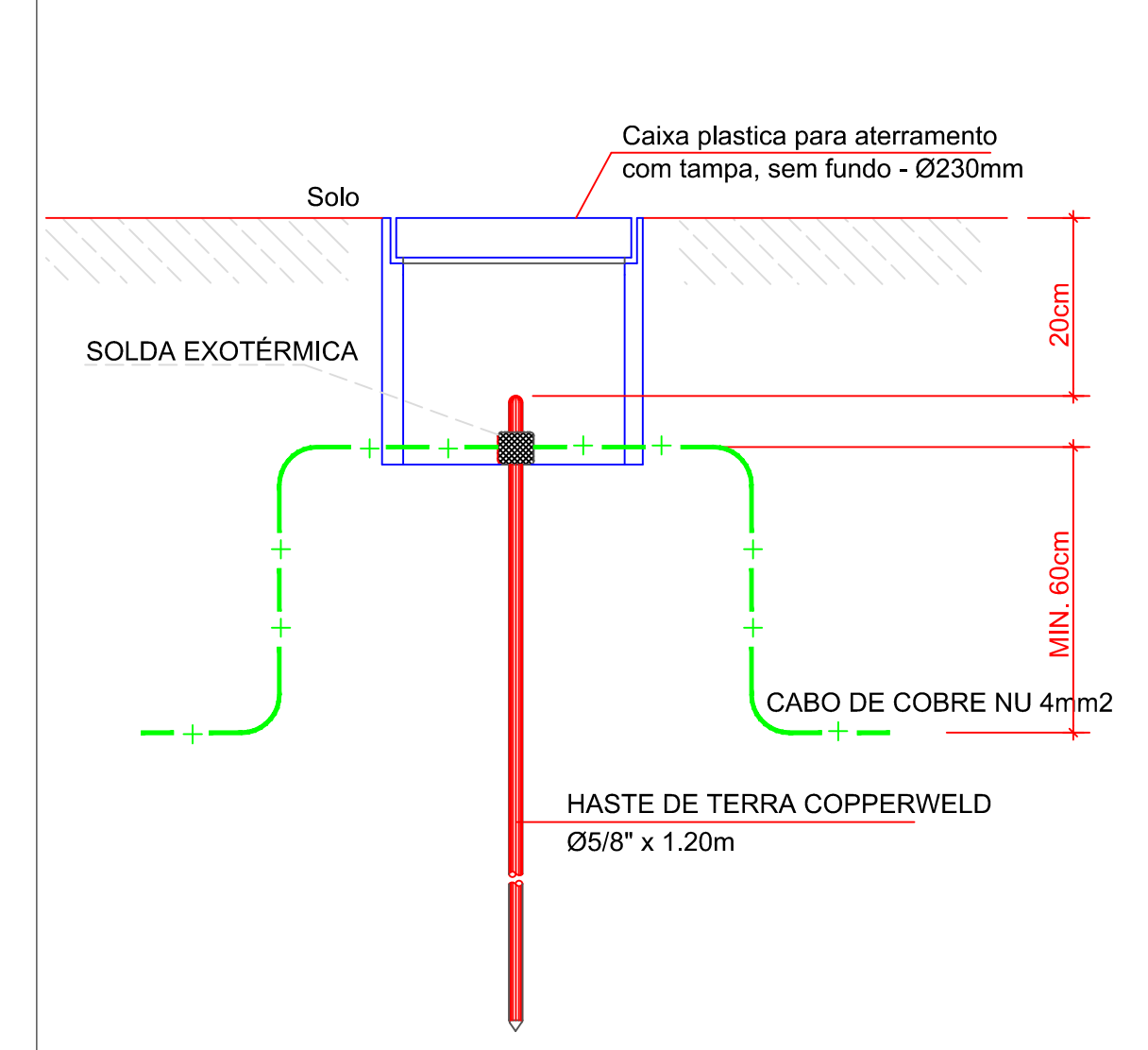
QFL	Circuito	Lâmpadas (W)	TUG	Potência Instal. (W)	Eq. Fases			Tensão (v)	Corrente (A)	Fio (mm²)	Proteção (A)	LOCAL
		LED T8 18W			R	S	T					
1	1	20		360	x			220	1.64	1,50	10	SETOR A
2	2	6		108		x			0.64	1,50	10	SETOR B
3	3	5	2	1290			x		5.86	2,50	10	PERGOLADO
4	4	5	3	1890	FASE DA BOMBA				8.59	2,50	10	GARAGEM
5	3		1	654	FASE DA ILUM.				2.97	2,50	10	CLARABOIA

Legenda

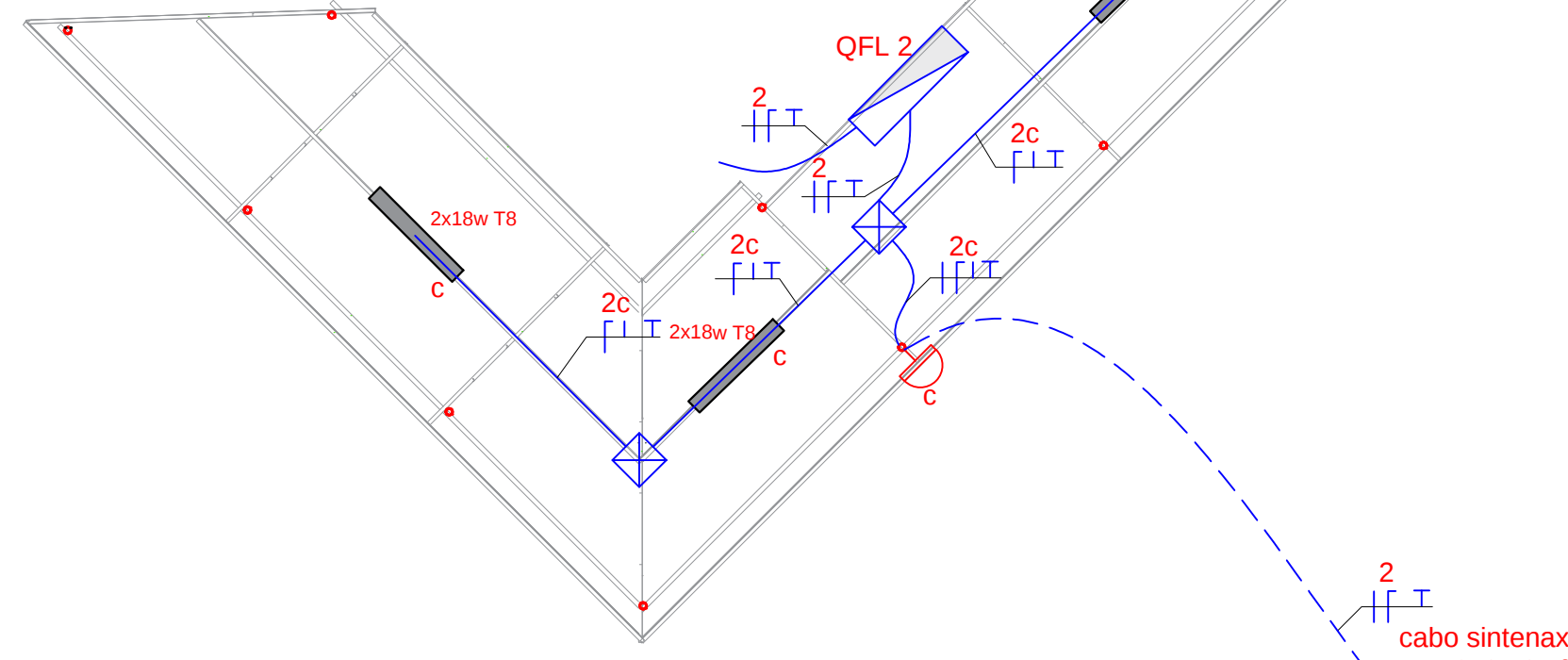
- Relé Fotoeletrico(h=3.00m)
- Tomada 2p+1 20A h=1,5m - Sobrepor
- Lumin. pl lâmp. LED 2x18w
- Quadro de Força e Luz (h=1,50m)
- Condutores neutro, fase, retorno e terra
- Caixa de passagem
- Eletroduto de PVC sobreposto
- Eletroduto de PVC embaixo do contra piso e/ou solo



Detalhe de aterramento e haste
SEM ESCALA



- Observações:
- 1 - USAR BUCHAS E ARRUELAS NOS QUADROS E CAIXAS DE PASSAGEM;
 - 2 - SÓ SERÁ PERMITIDO UTILIZAÇÃO DE CURVAS DE RAIO LONGO E LUZAS PRÉ-FABRICADAS;
 - 3 - OS DUTOS NÃO DEVEM POSSUIR BORDAS CORTANTES E DEVEM SER TERMINADOS COM LUZAS;
 - 4 - ELETRODUTO NÃO COTADO = Ø1/2";
 - 5 - ELETRODUTO NO PISO MÍNIMO: Ø3/4";
 - 6 - FIAÇÃO/CABEAMENTO ELÉTRICO:
 - NÃO DIMENSIONADA (VER QUADRO DE CARGAS/DIAGRAMAS);
 - A SEÇÃO MÍNIMA DOS CONDUTORES DE POTÊNCIA E ILUMINAÇÃO SERÁ DE 2,5mm²;
 - QUALQUER ISOLAMENTO DE EMENDAS DE CONDUTORES, DEVERÃO SER FEITO COM FITA ISOLANTE TIPO AUTO FUSÃO, SCOTCH 3M;
 - OS CABOS ALIMENTADORES DEVERÃO SER DE COBRE, TEMPERA MOLE, CLASSE DE ISOLAMENTO 0,6/1kV, COM ISOLAÇÃO TERMOPLÁSTICA DE CLORETO DE POLIVINILA (PVC), COM TEMPERATURA LIMITE DE 70°C EM REGIME, COM COBERTURA PROTETORA DE CLORETO DE POLIVINILA (PVC);
 - CIRCUITOS DE DISTRIBUIÇÃO SERÃO FEITOS COM CABOS FLEXÍVEIS TIPO SINTENAX FLEX 0,6/750V;



SETOR A - PROJETO ELETRICO - ESQUEMA UNIFILAR
ESCALA: SE

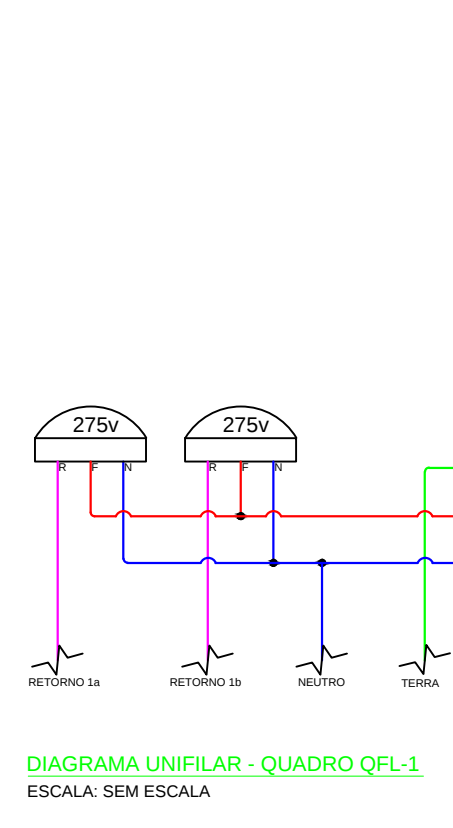


DIAGRAMA UNIFILAR - QUADRO QFL-1
ESCALA: SEM ESCALA

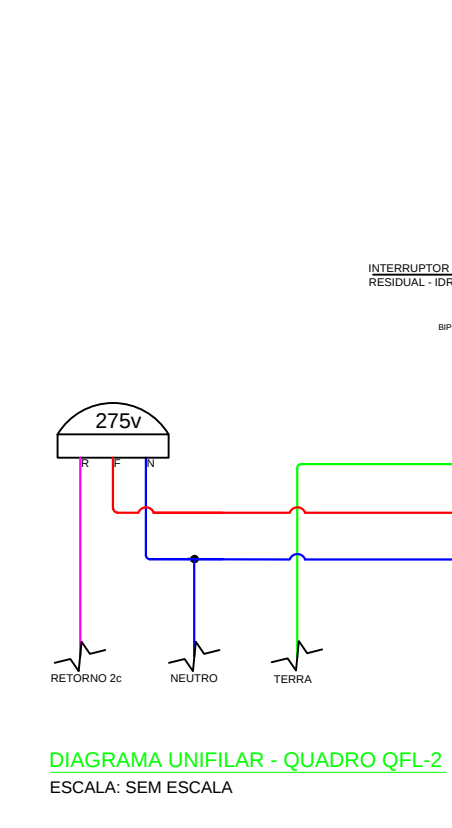


DIAGRAMA UNIFILAR - QUADRO QFL-2
ESCALA: SEM ESCALA

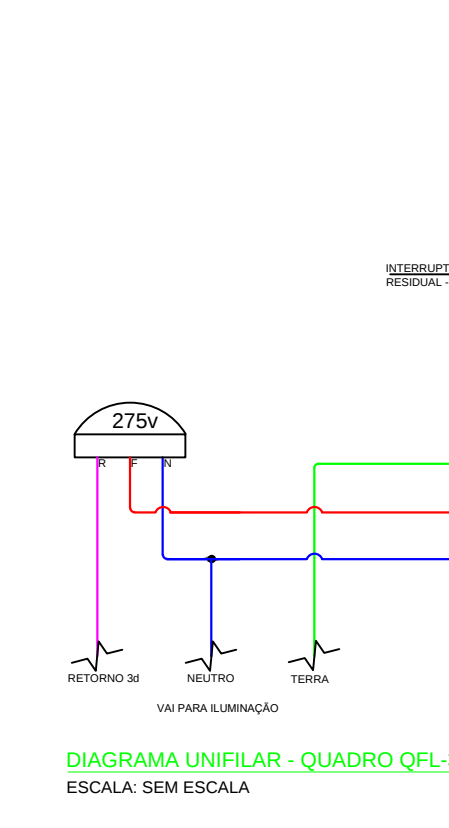


DIAGRAMA UNIFILAR - QUADRO QFL-3
ESCALA: SEM ESCALA

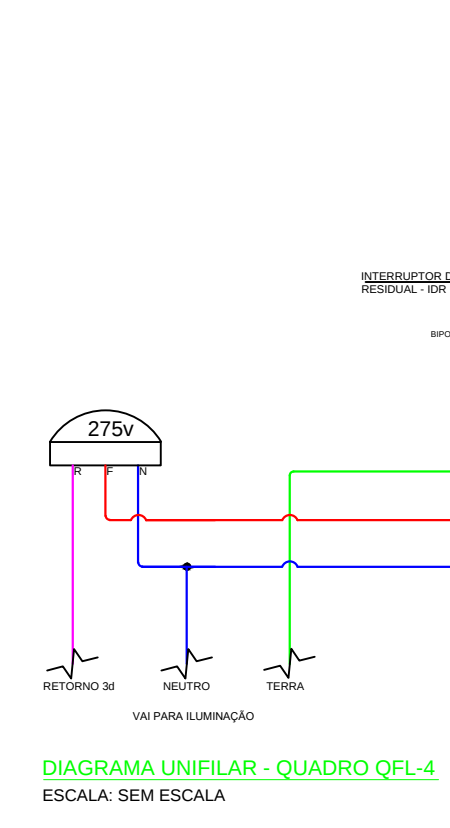


DIAGRAMA UNIFILAR - QUADRO QFL-4
ESCALA: SEM ESCALA



INSTITUTO FEDERAL
Sul de Grande

DEAP - DEPARTAMENTO DE ADMINISTRAÇÃO E DE PLANEJAMENTO
Avenida Carlos Gilberto Weiss, nº 155, Quatro Colônias, CEP: 89804-870, São Francisco do Sul, SC
Fone: (51) 3225-1020
e-mail: ag-desap@inf-sul.br; inf-sul@inf-sul.br

COBERTURA DOS PASSEIOS - CAMPUS SAPIRANGA

PROJETO DE MANUTENÇÃO / AMPLIAÇÃO

PROJETO ELÉTRICO/ILUMINAÇÃO

DESENHO: EDUARDO RAYNER SOARES

DATA: ABRIL/2028

ESCALA: INDICADA

PRANCHAS: PRO 09/09

ÁREA DA OBRA: 682,00m²

VISTO: Maria Lango

OBRA: CSA 001/2026

PRANCHAS: PRO 09/09