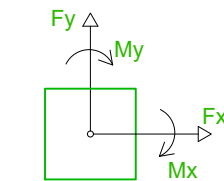




Os esforços indicados nesta tabela são os valores máximos obtidos pela envoltória de todas as combinações definidas para as fundações. Para análises complementares, deve-se consultar o relatório de esforços na fundação, que apresenta os valores calculados para cada combinação.



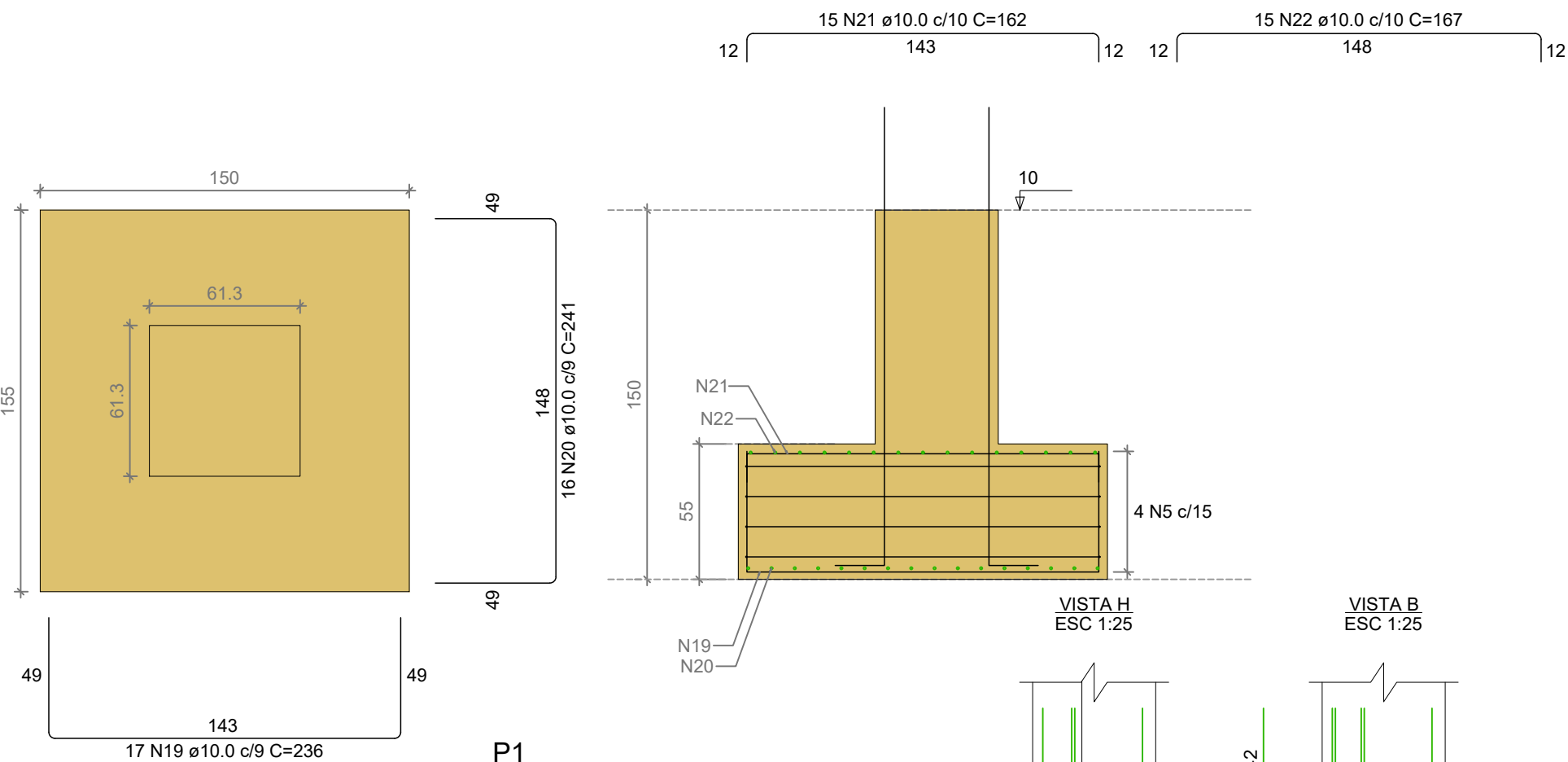
ENDEREÇO:
Rua Dom José Thomaz, 194 - Bairro São José - Aracaju/SE
dipop@ifs.edu.br TEL: (79)3711-3139

ESCALA: 1:100

DATA: JULHO/2026

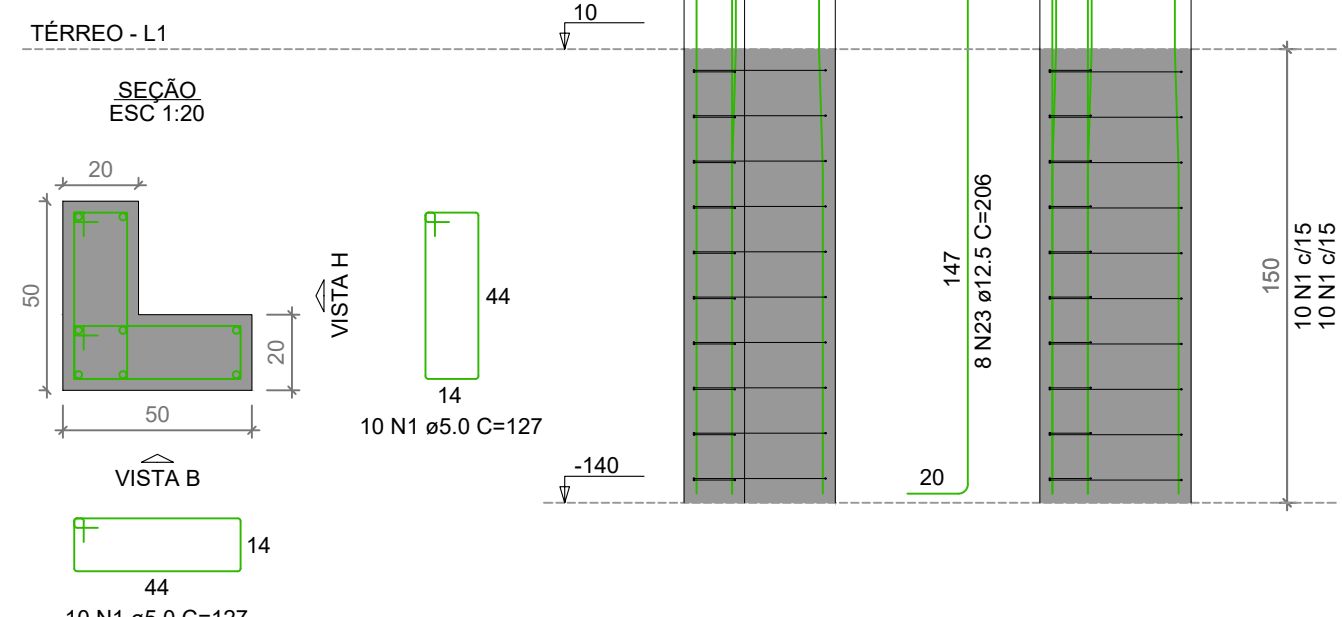
PRANCHA: 01/17

S1
PLANTA
ESC 1:25



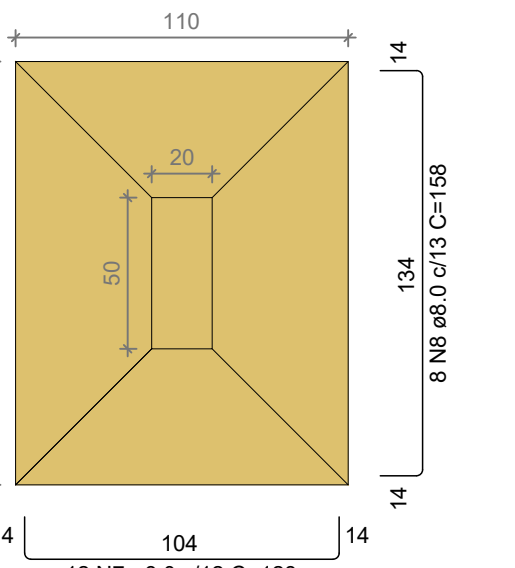
Solo com capacidade de suporte > 2.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

P1



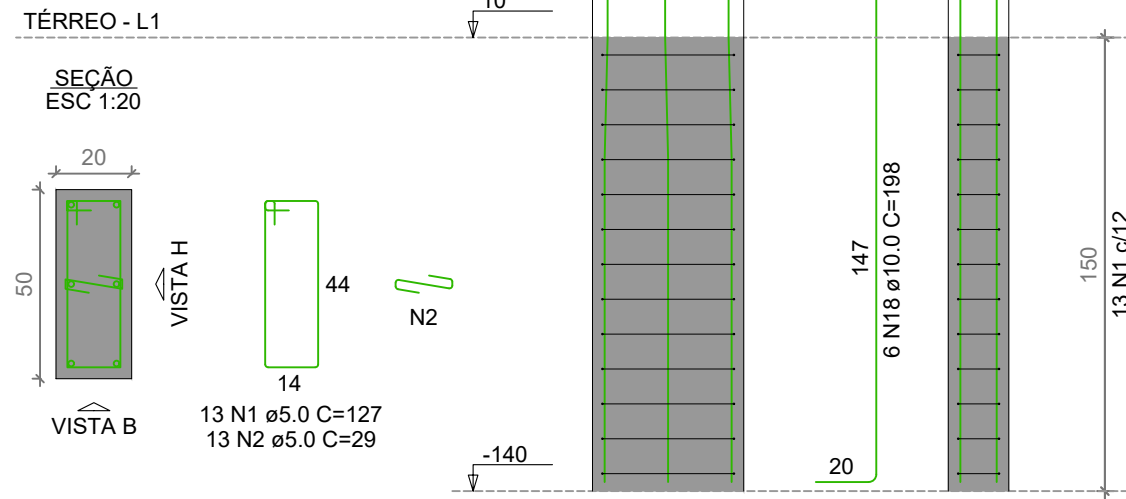
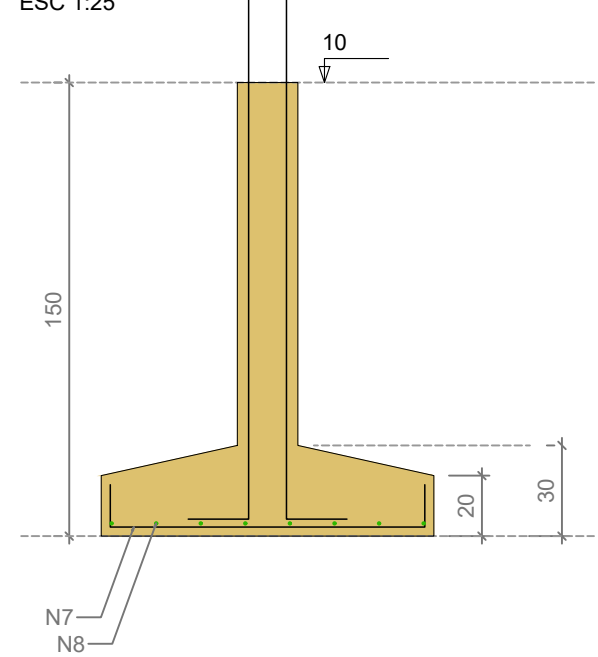
P2=P23=P24

S2=S23=S24
PLANTA
ESC 1:25

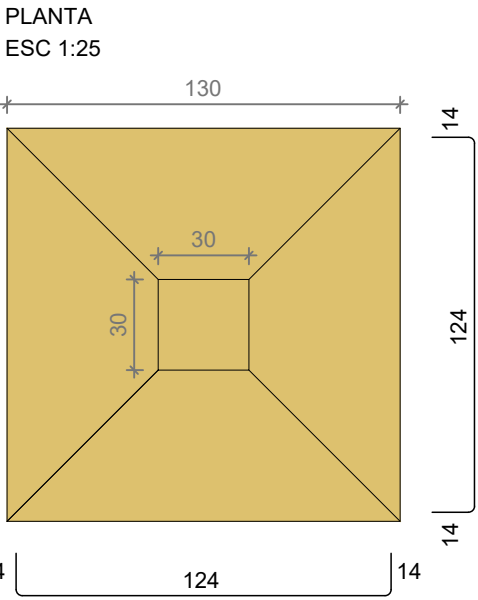


Solo com capacidade de suporte > 2.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

CORTE
ESC 1:25

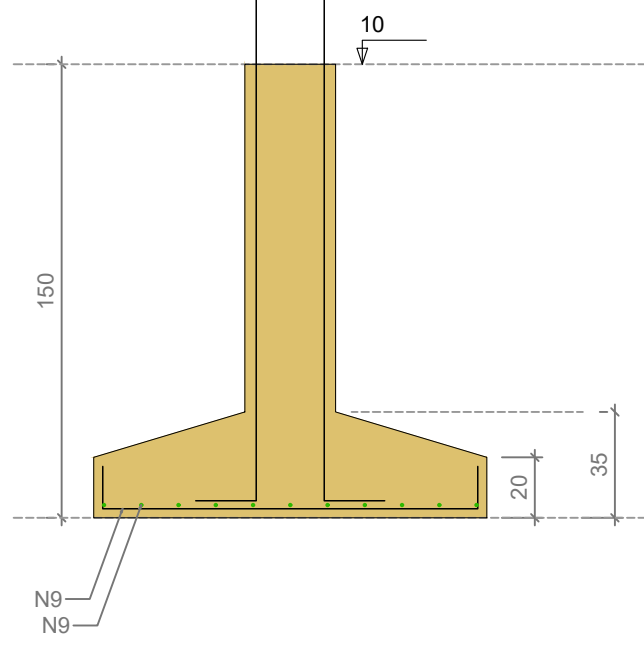


S3

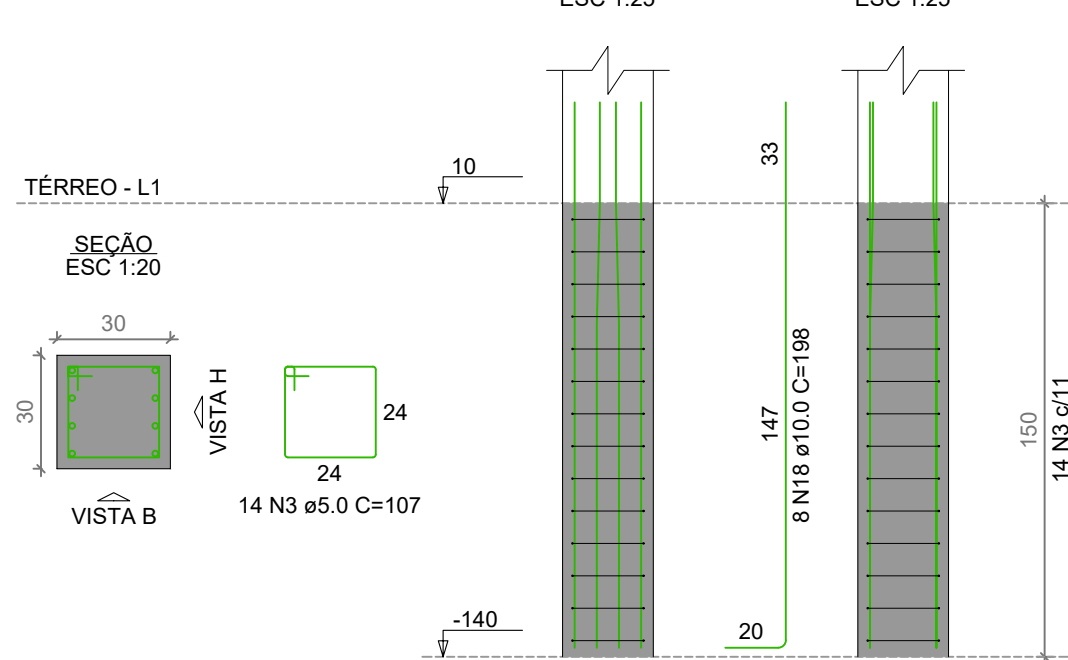


Solo com capacidade de suporte > 2.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

CORTE
ESC 1:25



P3



RELAÇÃO DO AÇO

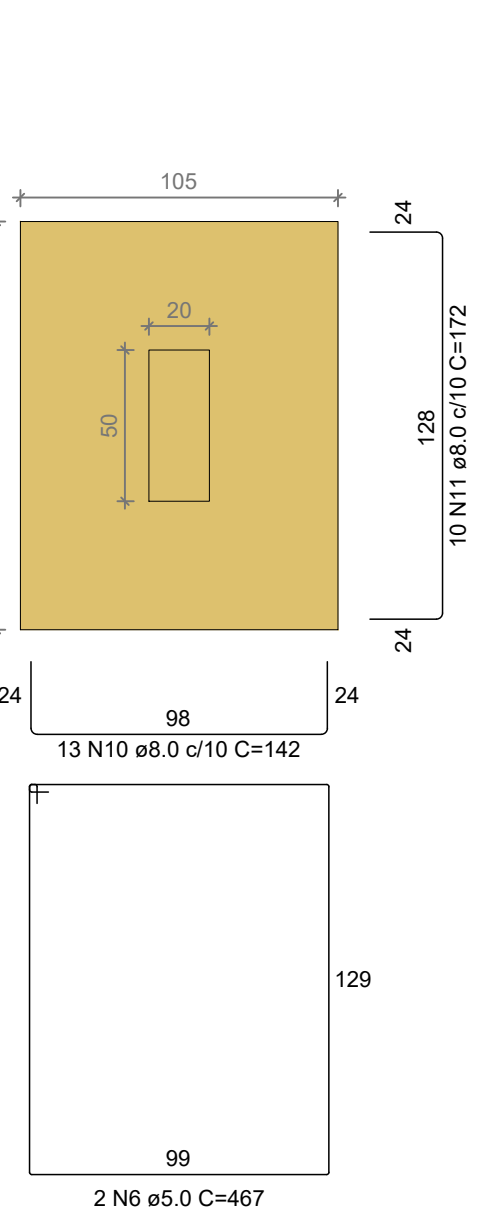
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	98	127	12446
	2	5.0	76	29	2262
	3	5.0	14	107	1486
	4	5.0	13	77	1001
	5	5.0	4	597	2388
	6	5.0	4	467	1868
	7	8.0	36	128	4608
	8	8.0	24	158	3792
	9	8.0	22	148	3256
	10	8.0	26	142	3692
	11	8.0	20	172	3440
	12	8.0	24	112	2688
	13	8.0	16	142	2256
	14	8.0	7	103	721
	15	8.0	6	118	708
	16	8.0	13	133	1729
	17	8.0	10	163	1650
	18	10.0	48	198	9504
	19	10.0	17	230	4012
	20	10.0	16	241	3856
	21	10.0	15	162	2430
	22	10.0	15	167	2505
	23	12.5	5	206	1045

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	288.2	125.1
CA50	10.0	223.1	151.3
CA60	5.0	16.5	17.5
CA60	5.0	214.6	36.4
PESO TOTAL (kg)			
CA50	283.8		
CA60	36.4		

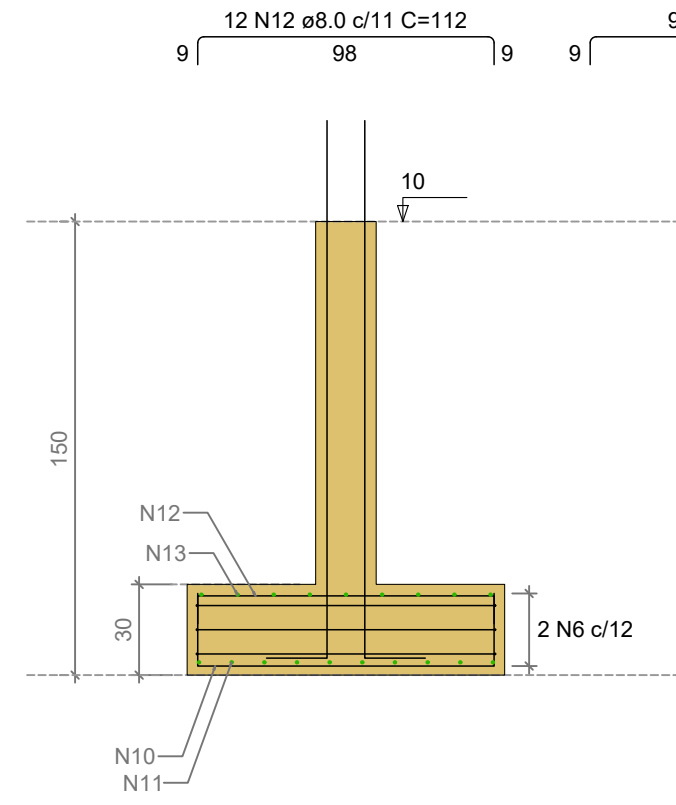
Volume de concreto (C-30) = 5.34 m³
Área de forma = 26.55 m²

S4=S8
PLANTA
ESC 1:25

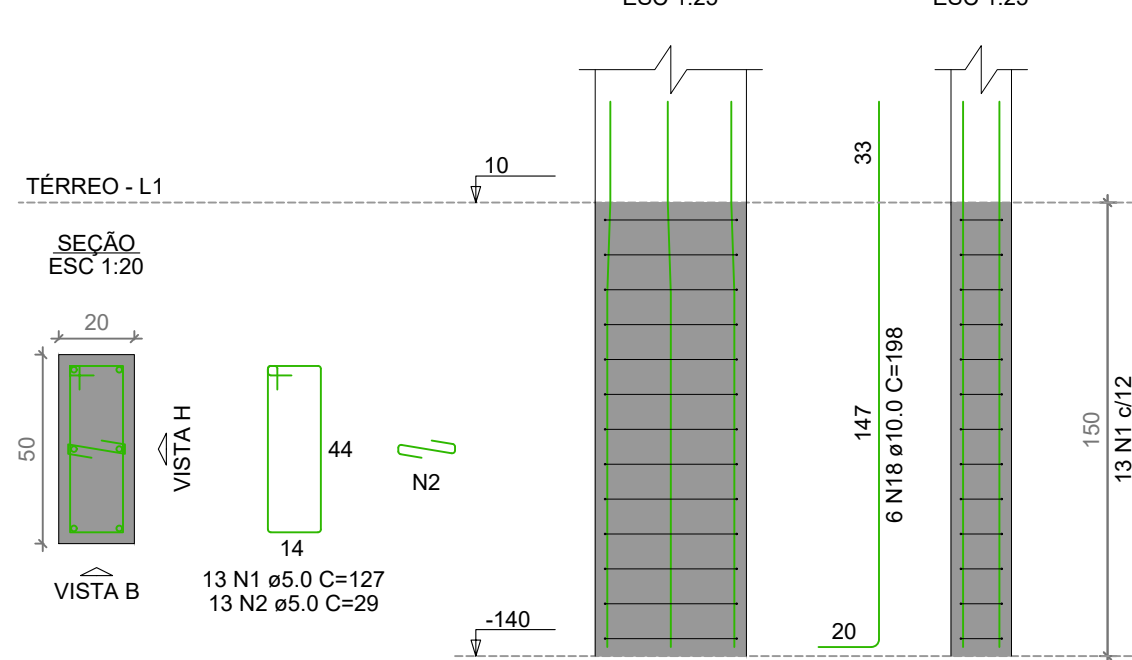


Solo com capacidade de suporte > 2.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

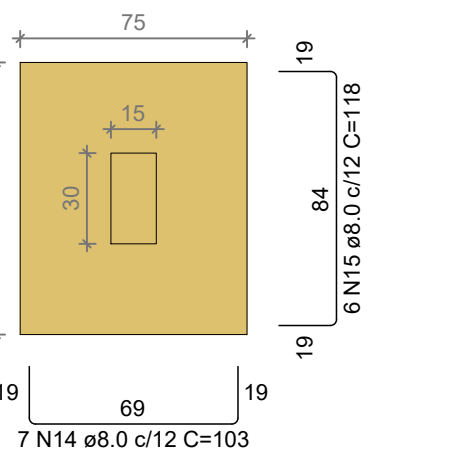
CORTE
ESC 1:25



P4=P8

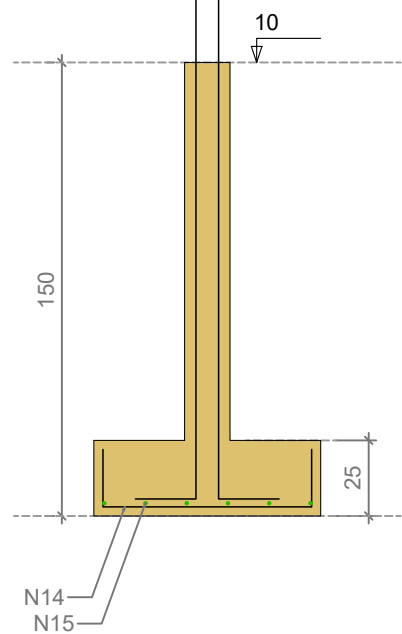


S6
PLANTA
ESC 1:25

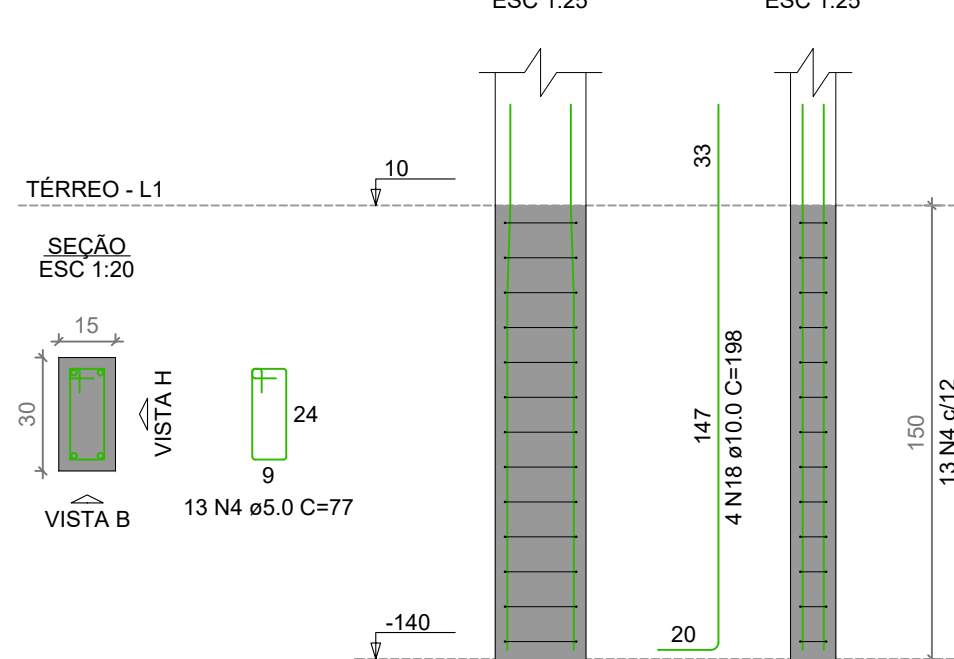


Solo com capacidade de suporte > 2.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

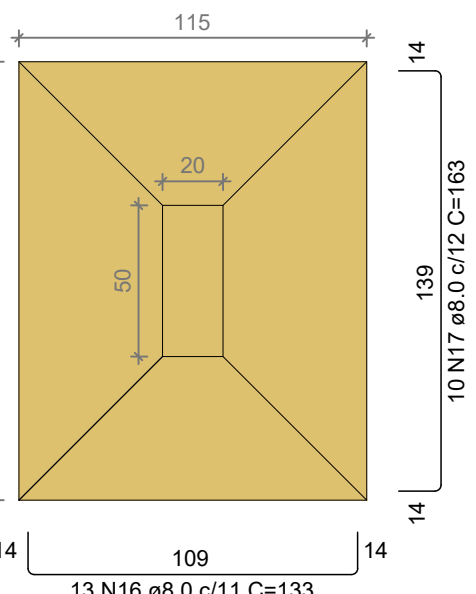
CORTE
ESC 1:25



P6

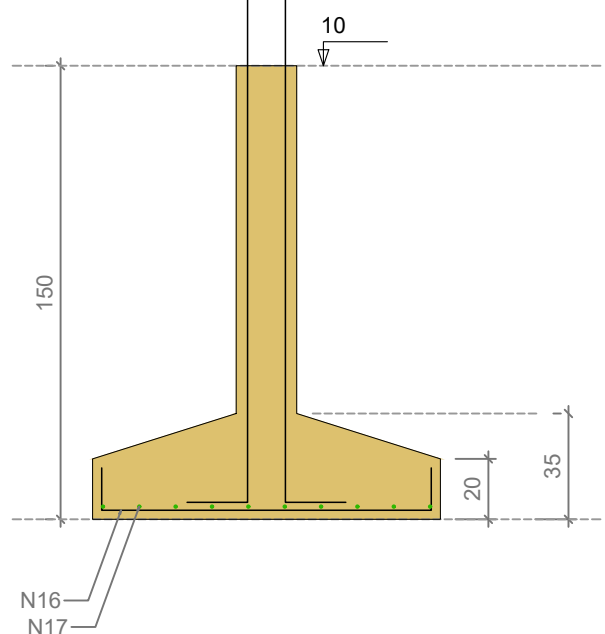


S9
PLANTA
ESC 1:25

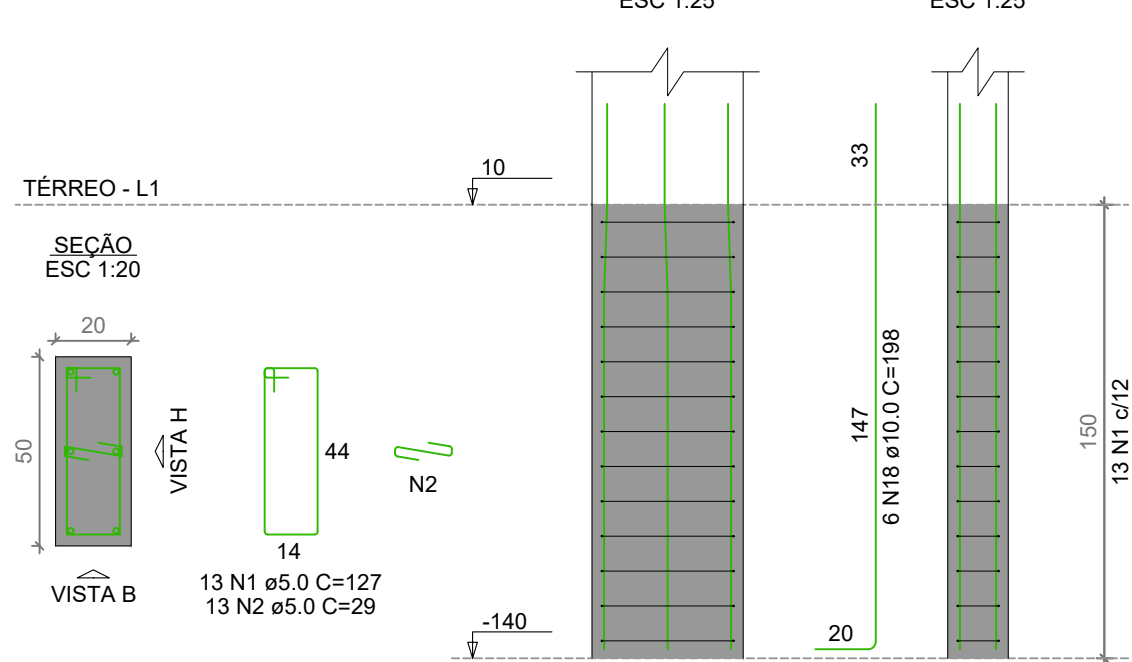


Solo com capacidade de suporte > 2.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

CORTE
ESC 1:25



P9



Nº	ALTERAÇÃO/REVISÕES	REVISADO POR	DATA



AUTOR DO PROJETO:
Engº. Fredrico Damasceno Pinheiro
CREA 270082778-3



ENDEREÇO:
Rua Dom José Thomaz, 194 - Bairro São José - Aracaju/SE
dipop@ifs.edu.br
TEL: (79)3711-3139

PROJETO ESTRUTURAL RESTAURANTE - CAMPUS ARACAJU/SE

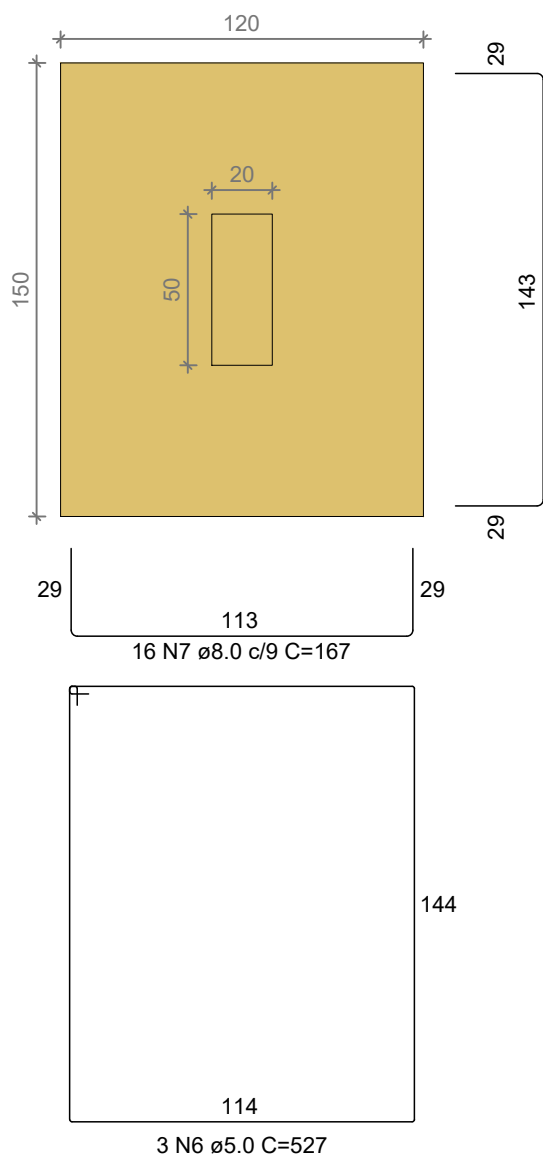
CLIENTE:
INSTITUTO FEDERAL DE SERGIPE - CAMPUS ARACAJU

ENDEREÇO:
AV. ENGENHEIRO GENTIL TAVARES, 1166, GETÚLIO VARGAS, ARACAJU - SE

PLANTA:
RESTAURANTE
ARMAÇÃO DAS SAPATAS 1 - 3

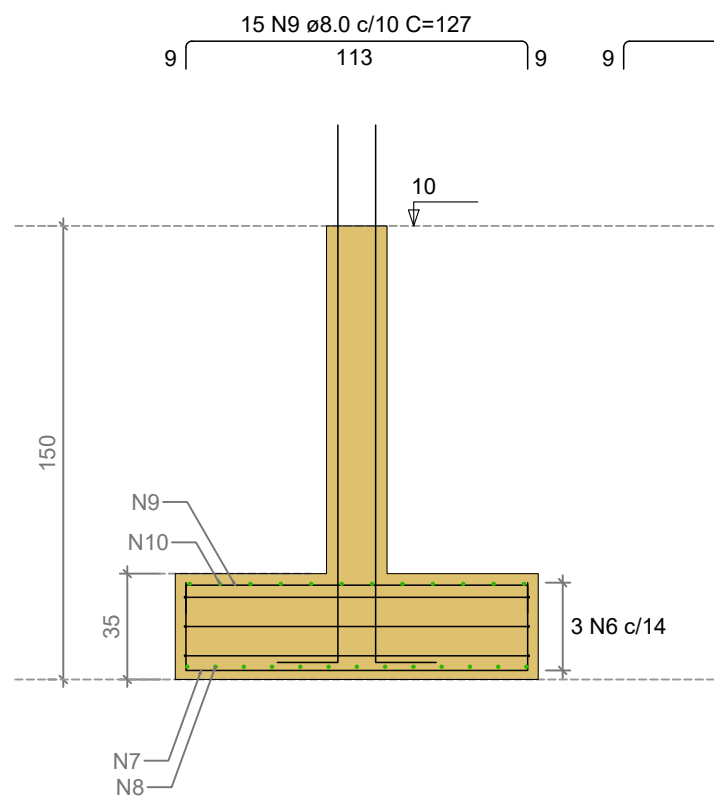
ESCALA: 1:100
DATA: JULHO/2026
PRANCHA: 03/17

S5
PLANTA
ESC 1:25

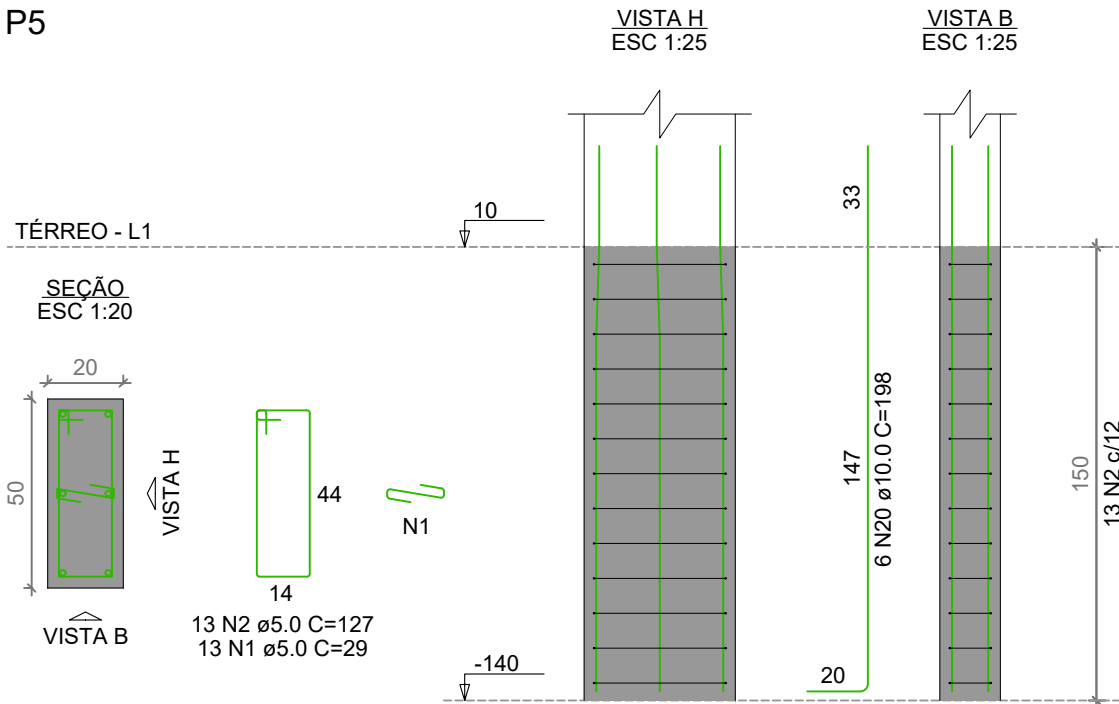


Solo com capacidade de suporte > 2.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

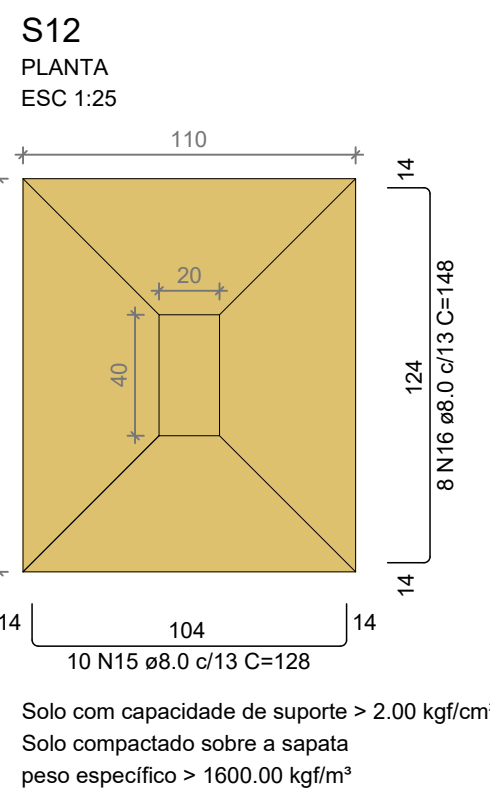
CORTE
ESC 1:25



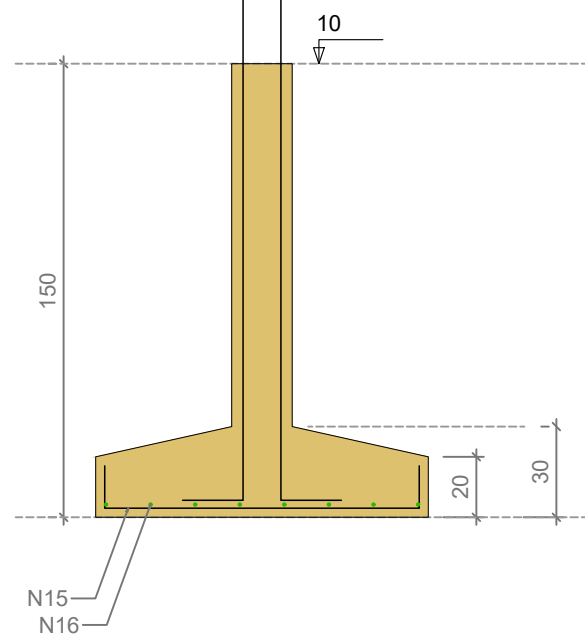
P5



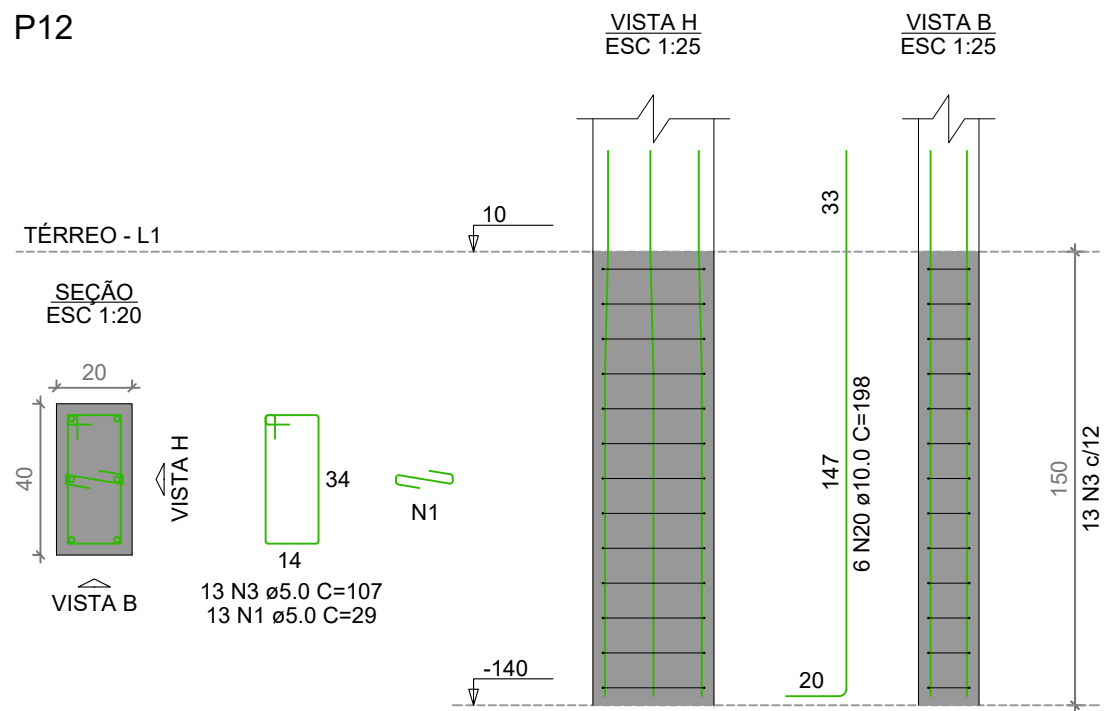
S12



CORTE
ESC 1:25



P12

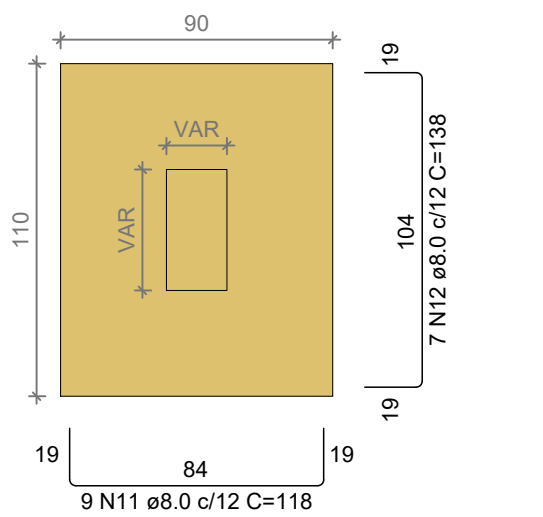


RELAÇÃO DO AÇO					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	5.0	39	29	1131
	2	5.0	13	127	1651
	3	5.0	26	107	2782
	4	5.0	91	77	7007
	5	5.0	13	24	312
	6	5.0	9	527	1581
	7	8.0	16	167	2672
	8	8.0	13	197	2561
	9	8.0	15	127	1905
	10	8.0	12	157	1884
	11	8.0	27	118	3186
	12	8.0	21	138	2898
	13	8.0	19	123	2214
	14	8.0	16	138	2206
	15	8.0	24	128	3072
	16	8.0	6	148	1184
	17	8.0	16	113	1808
	18	8.0	6	108	654
	19	8.0	7	123	861
	20	10.0	62	198	12276
	21	10.0	2	162	324

RESUMO DO AÇO			
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	273.2	118.6
CA60	10.0	128	85.5
CA60	5.0	144.6	24.5
PESO TOTAL (kg)			
CA50	204		
CA60	24.5		

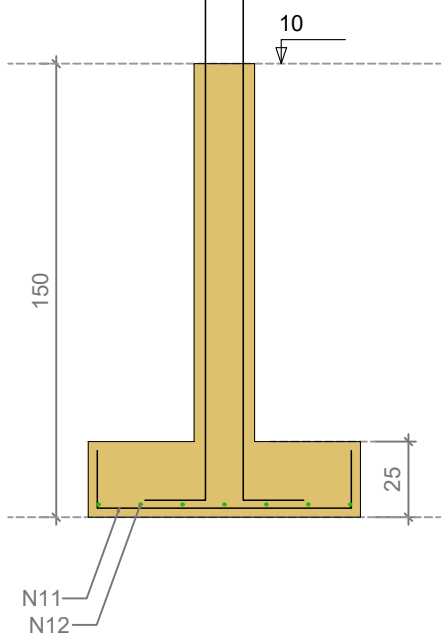
Volume de concreto (C-30) = 3.72 m³
Área de forma = 22.41 m²

S7=S13=S19
PLANTA
ESC 1:25

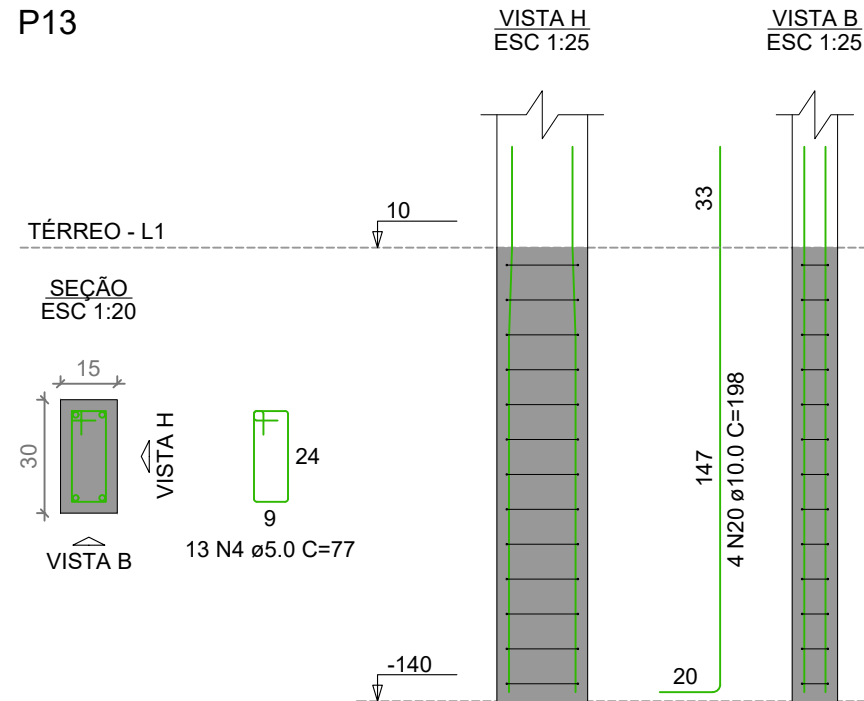


Solo com capacidade de suporte > 2.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

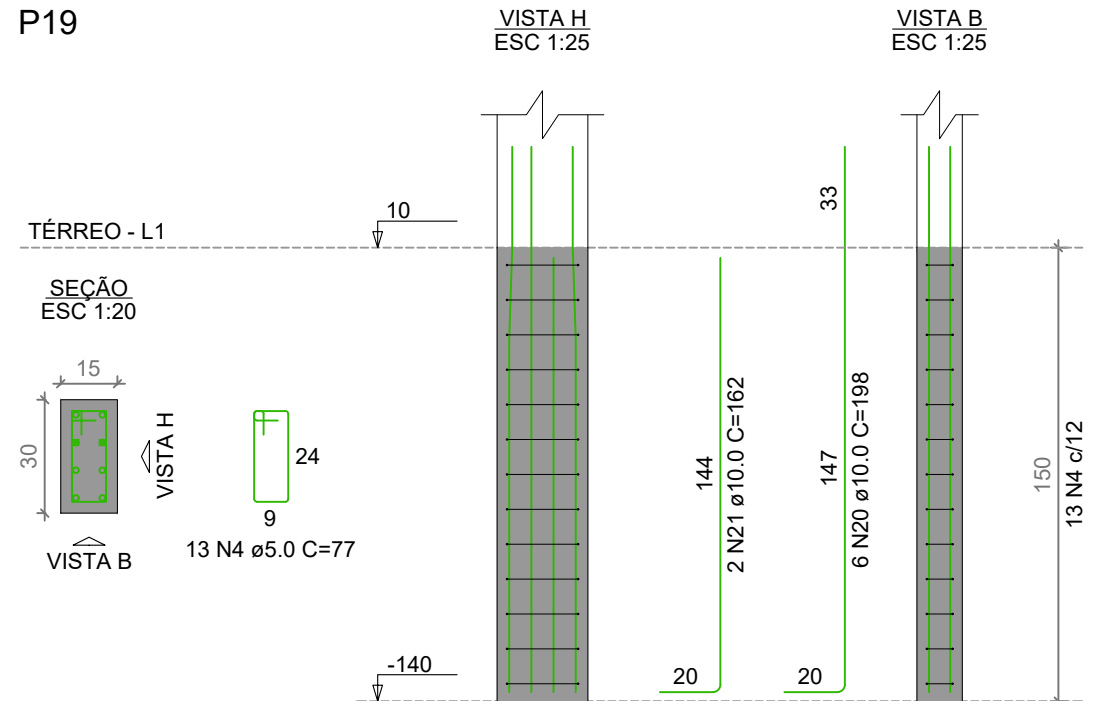
CORTE
ESC 1:25



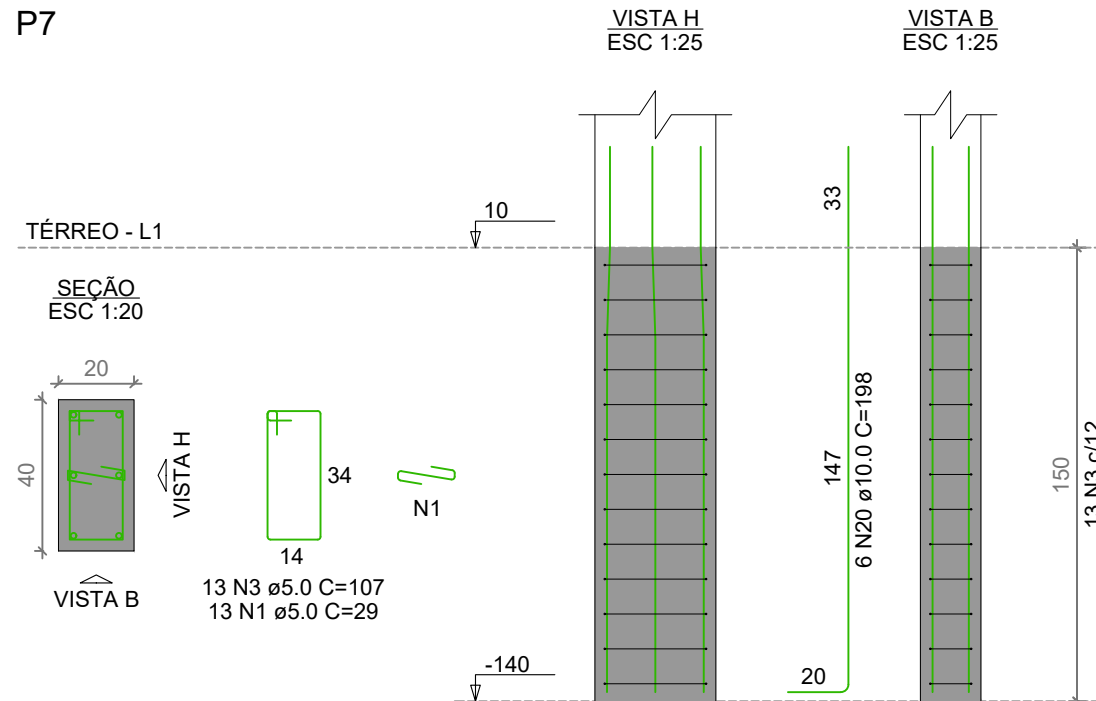
P13



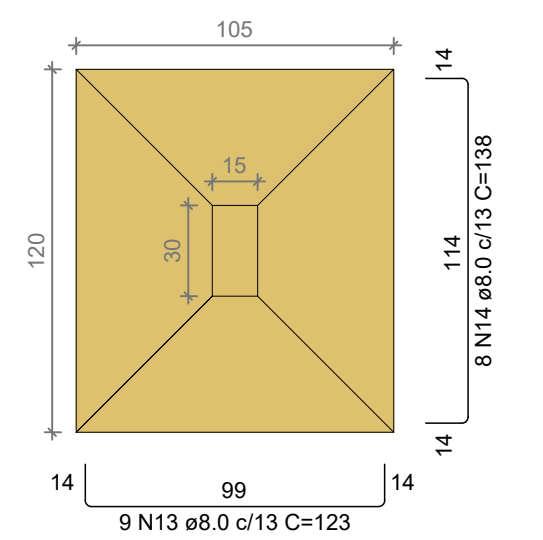
P19



P7

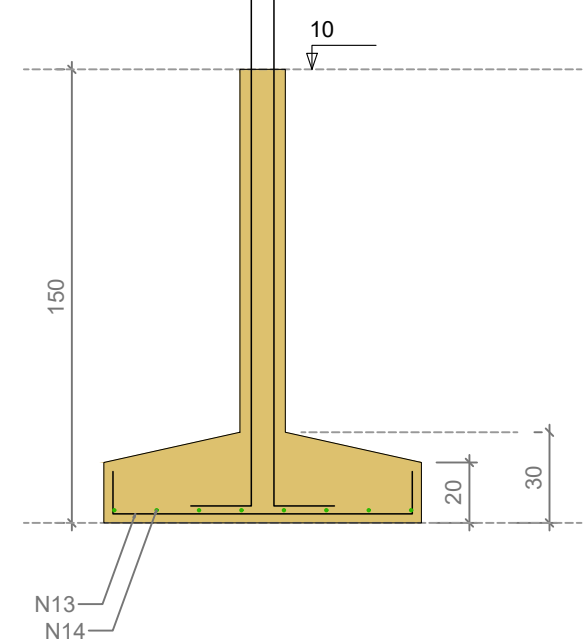


S10=S11
PLANTA
ESC 1:25

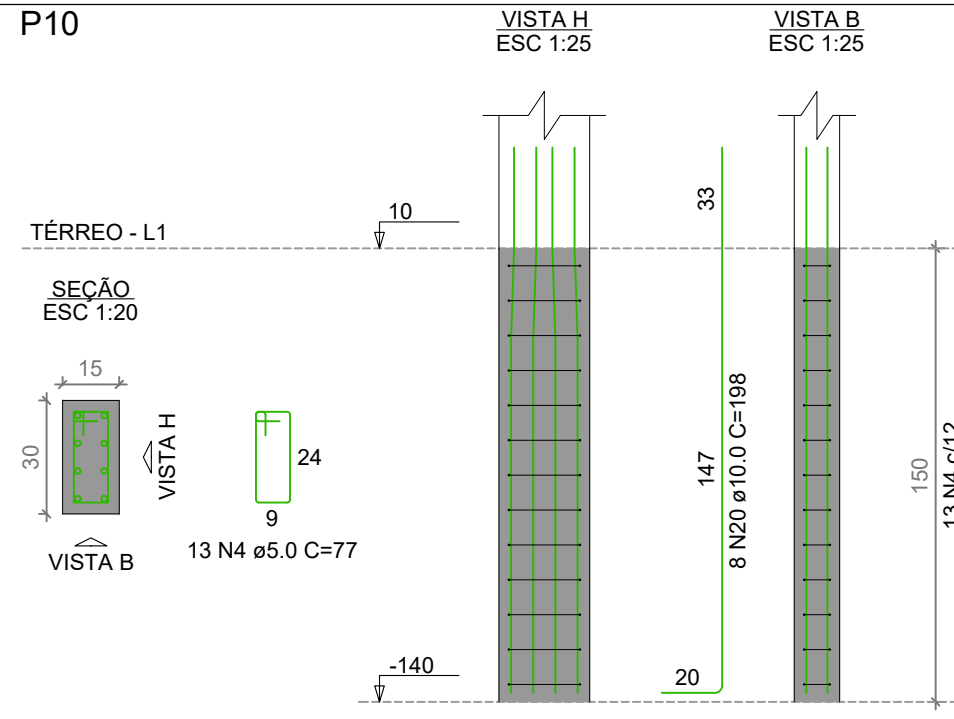


Solo com capacidade de suporte > 2.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

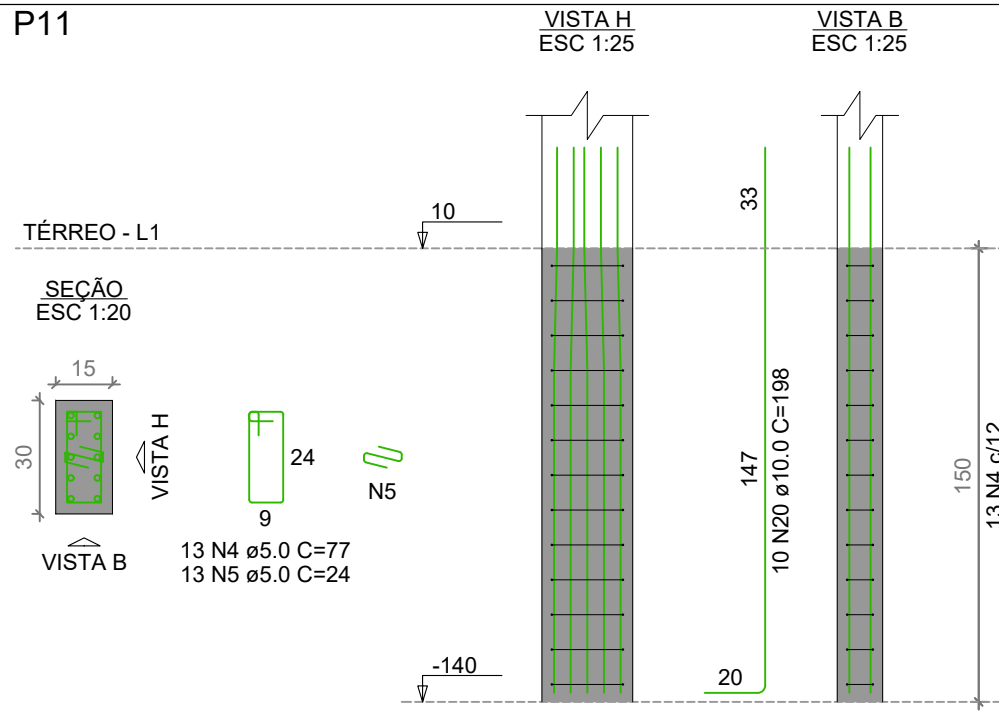
CORTE
ESC 1:25



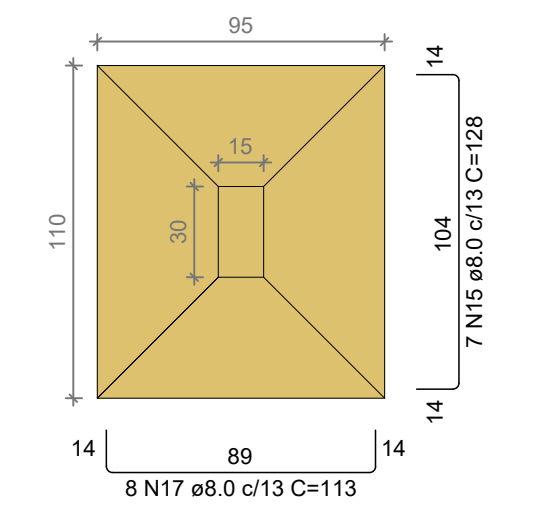
P10



P11

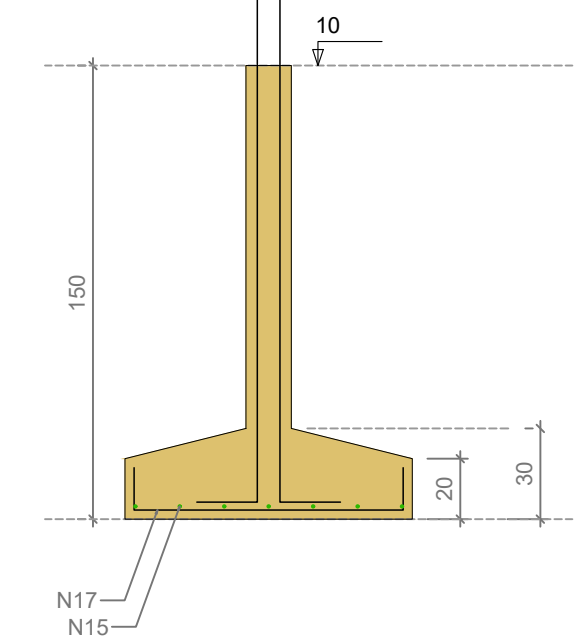


S14=S18
PLANTA
ESC 1:25

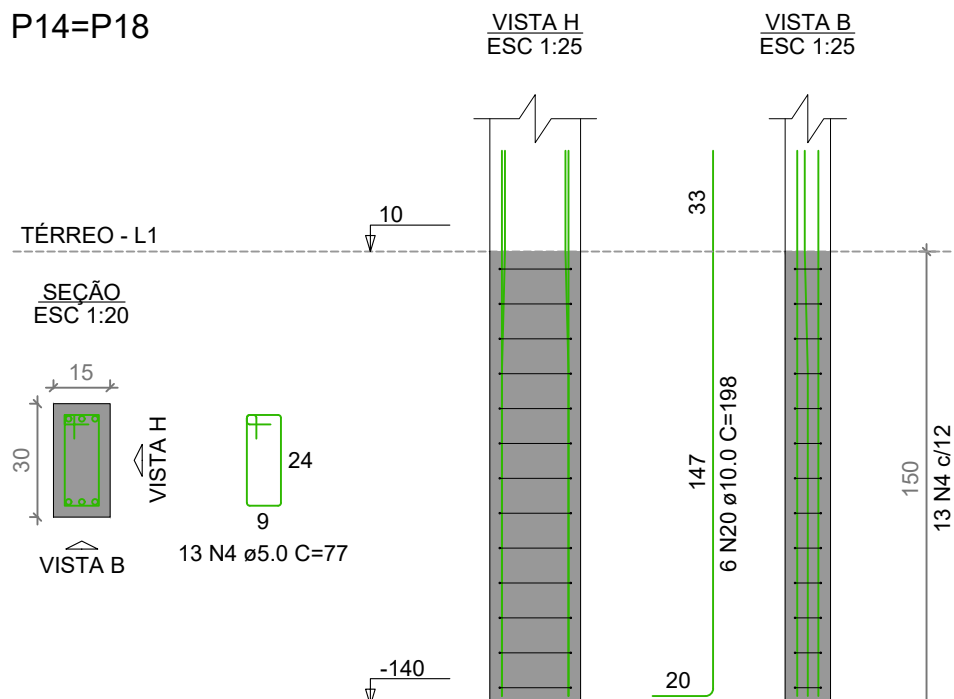


Solo com capacidade de suporte > 2.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

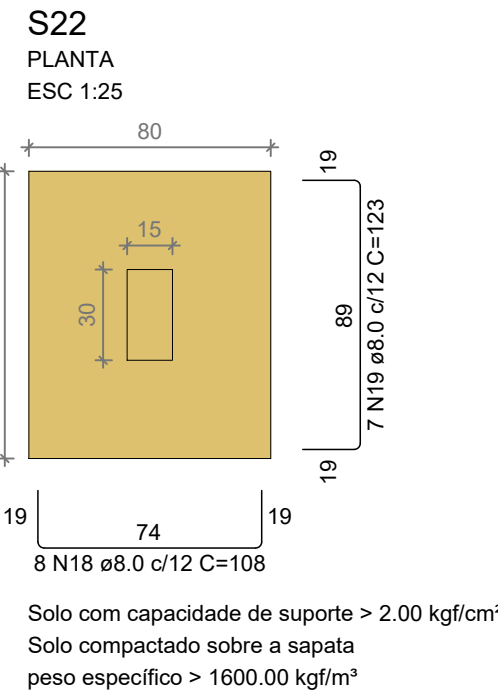
CORTE
ESC 1:25



P14=P18

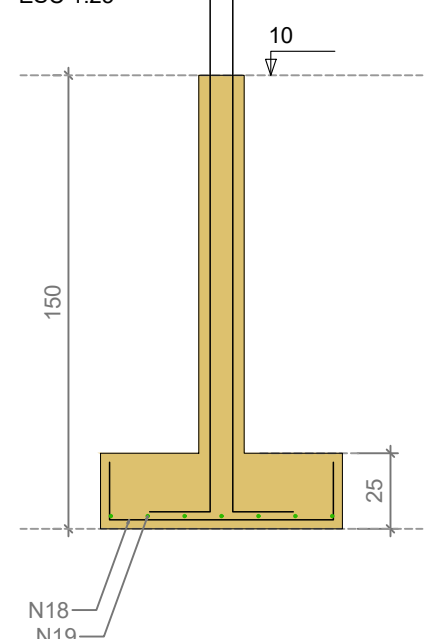


S22

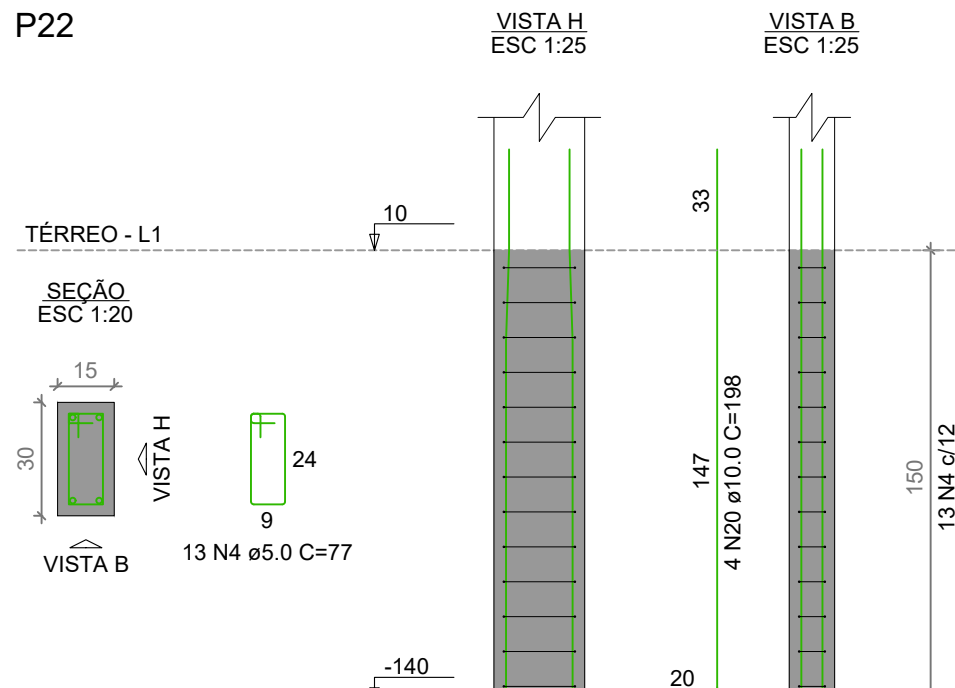


Solo com capacidade de suporte > 2.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

CORTE
ESC 1:25



P22



Nº	ALTERAÇÃO/REVISÕES	REVISADO POR	DATA



INSTITUTO FEDERAL
SERGIPE

AUTOR DO PROJETO:
Engº. Fredrico Damasceno Pinheiro
CREA 270082778-3



ad
ENGENHARIA
edengenharia.eng.br

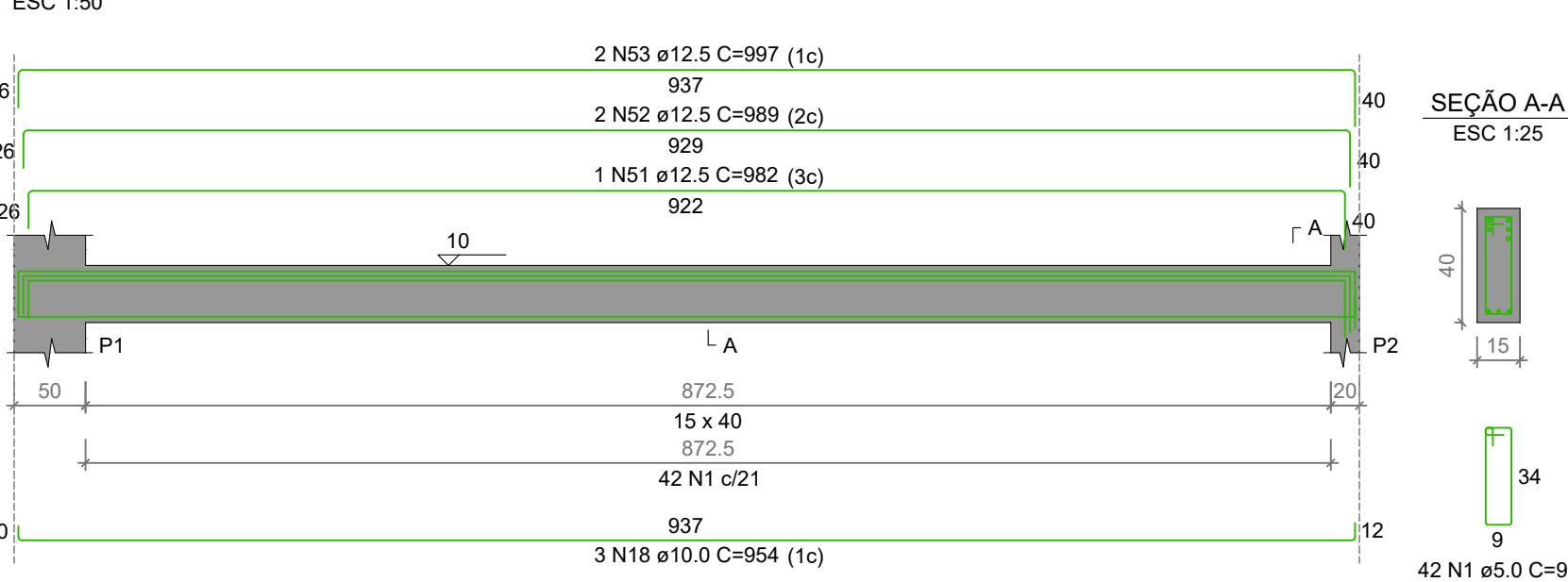
ENDEREÇO:
Rua Dom José Thomaz, 194 - Bairro São José - Aracaju/SE
dipop@ifs.edu.br

TEL: (79)3711-3139

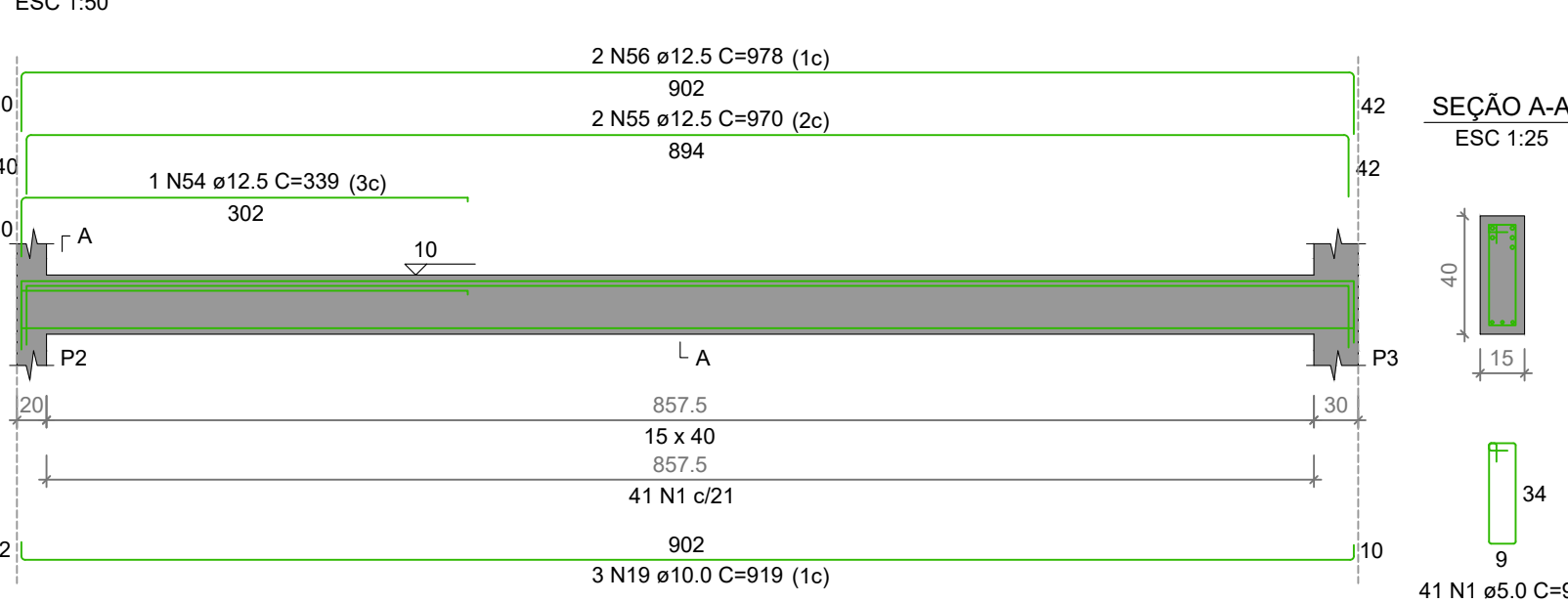
PROJETO ESTRUTURAL RESTAURANTE - CAMPUS ARACAJU/SE

CLIENTE:	INSTITUTO FEDERAL DE SERGIPE - CAMPUS ARACAJU	ESCALA:	1:100
ENDEREÇO:	AV. ENGENHEIRO GENTIL TAVARES, 1166, GETÚLIO VARGAS, ARACAJU - SE	DATA:	JULHO/2026
PLANTA:	RESTAURANTE ARMAÇÃO DAS SAPATAS 2 - 3	PRANCHA:	04/17
CAMPO: OBRA: ESPECIALIDADE: FASE: SERIAL: QUANTITATIVO: REVISÃO:			
AJU RES EST PE 004 017 R00			

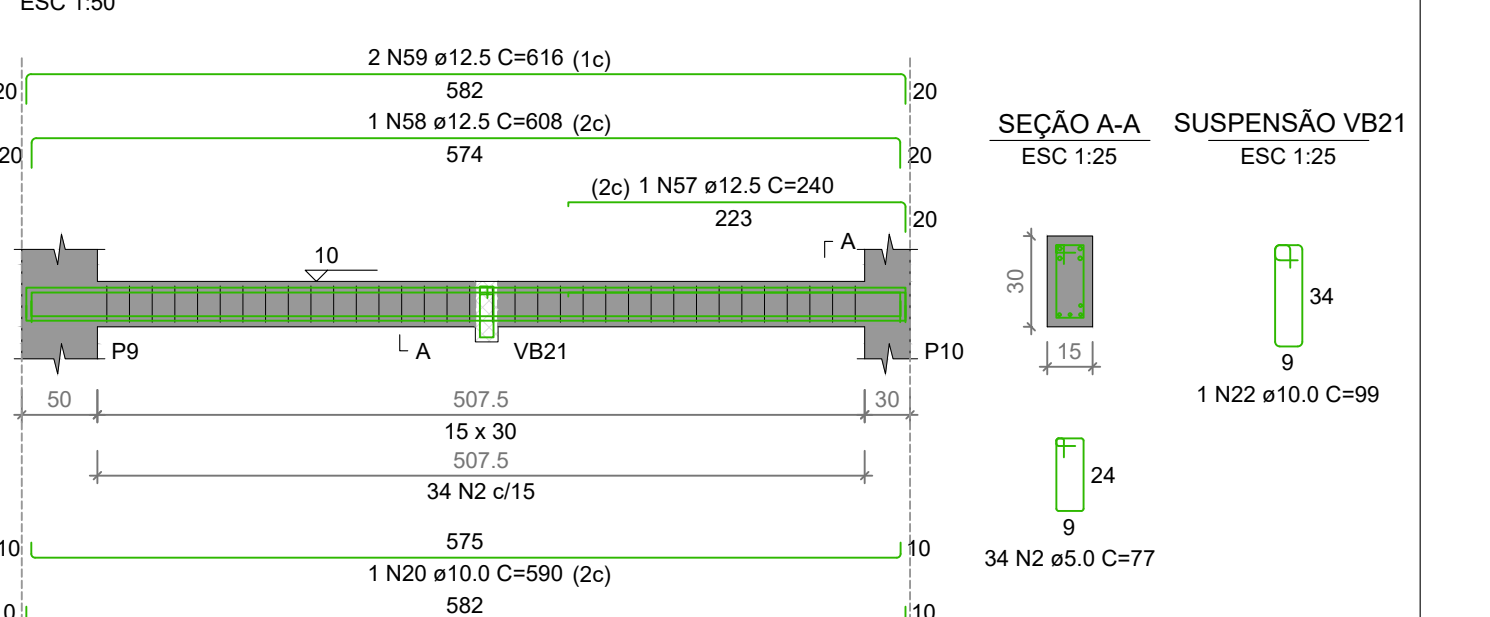
VB1 (15 x 40)



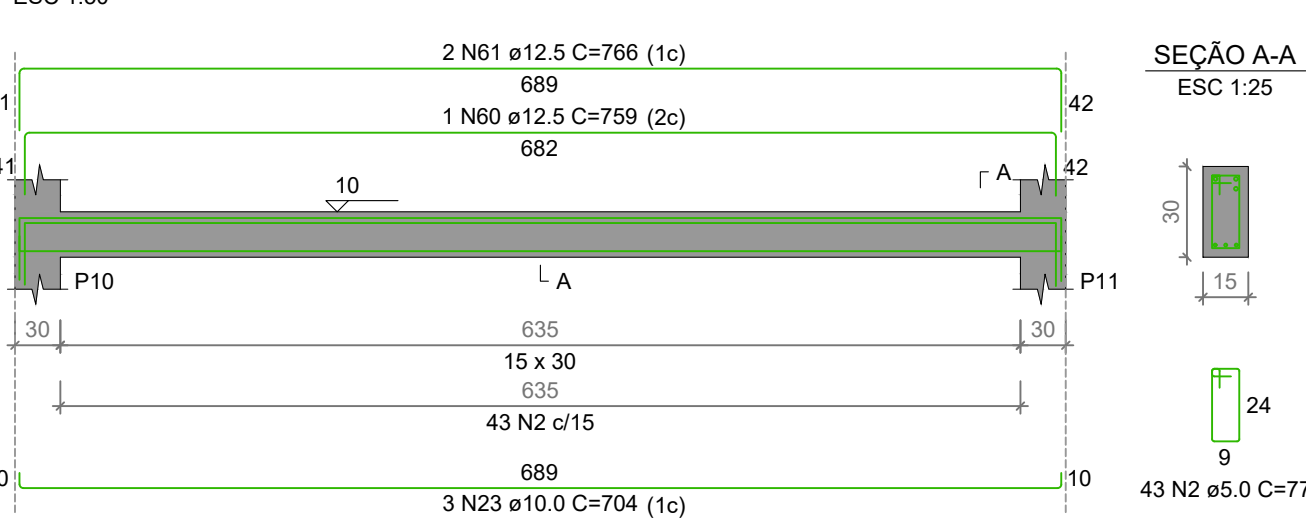
VB2 (15 x 40)



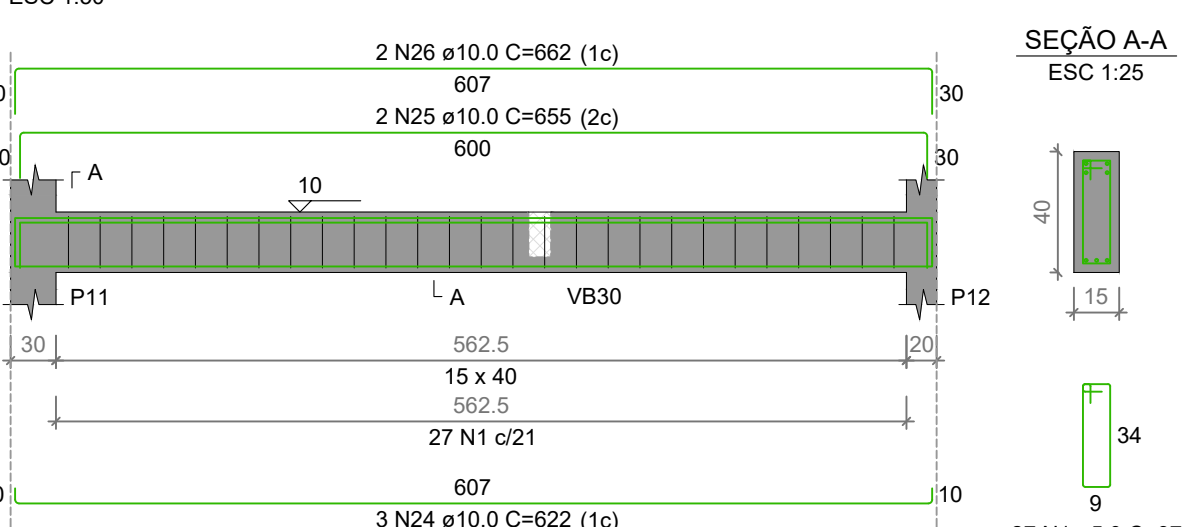
VB3 (15 x 30)



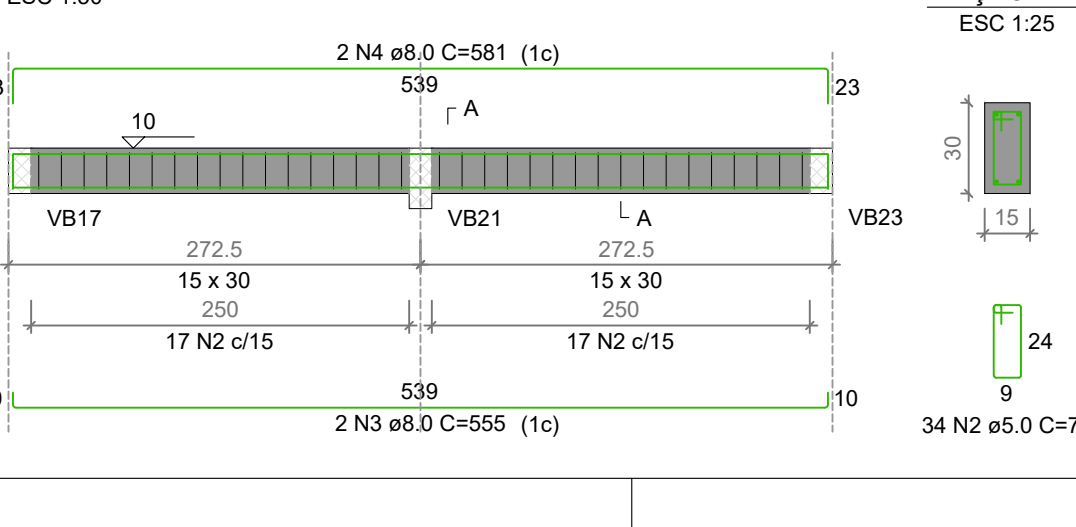
VB4 (15 x 30)



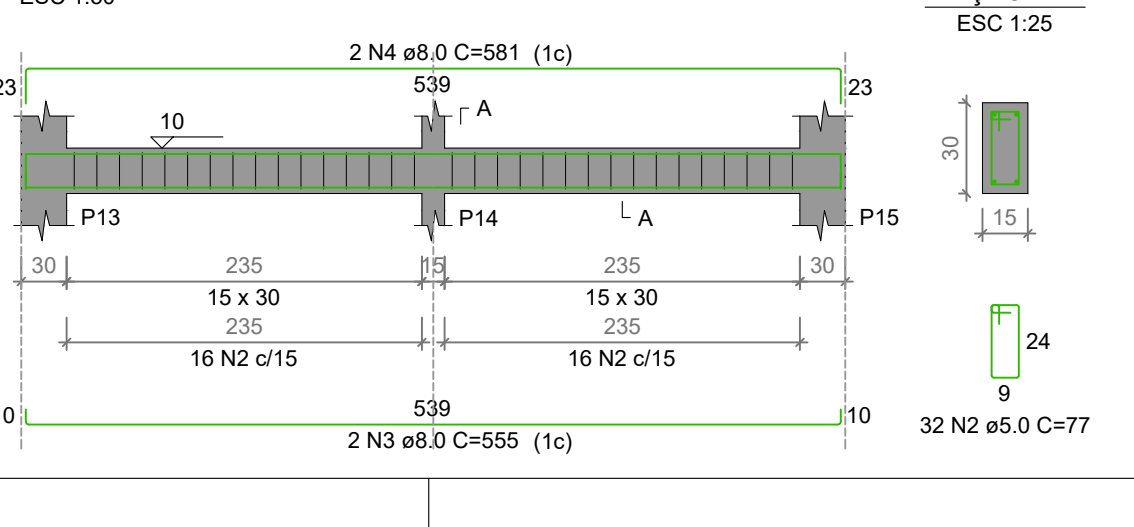
VB5 (15 x 40)



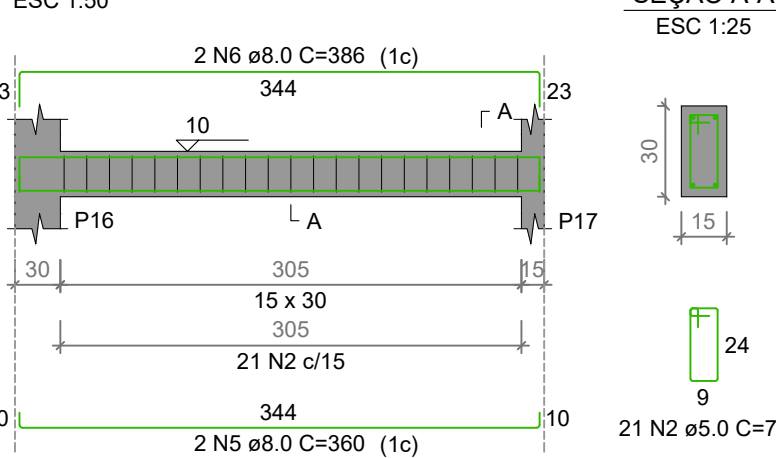
VB6 (15 x 30)



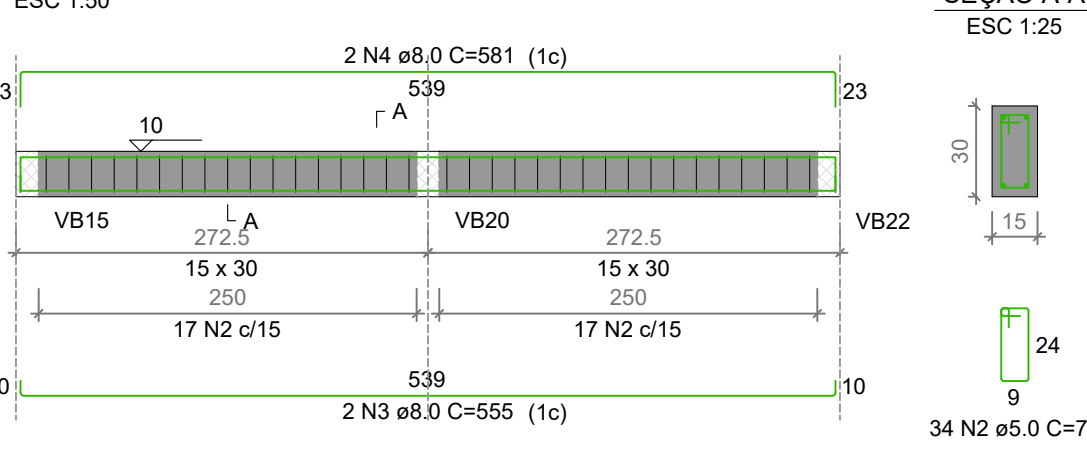
VB7 (15 x 30)



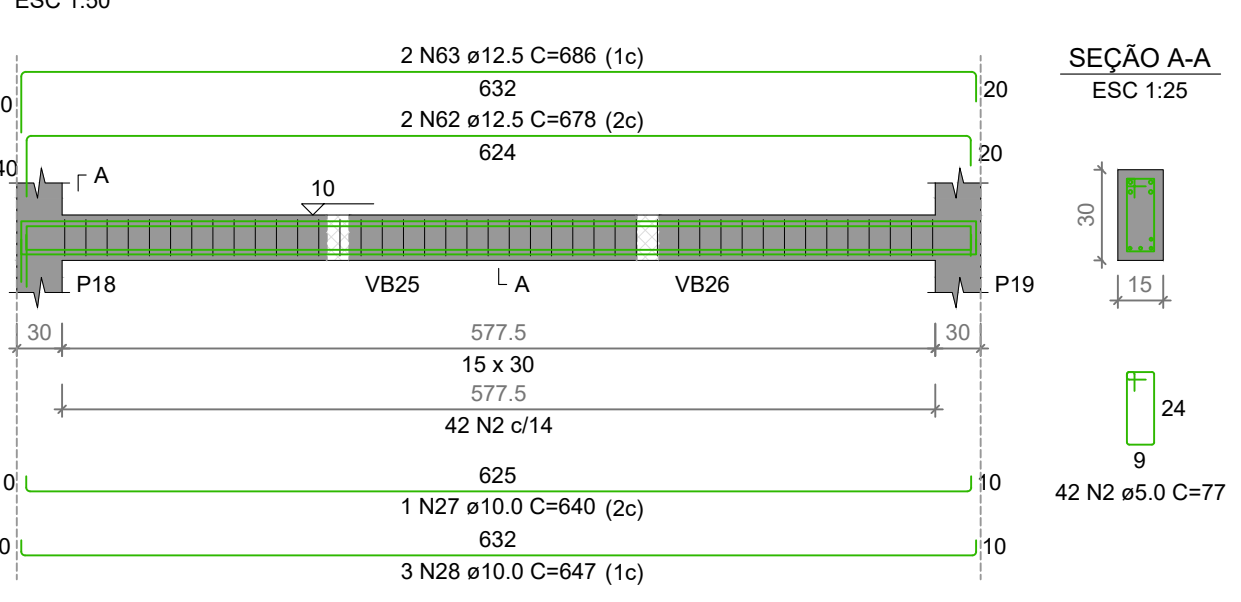
VB8 (15 x 30)



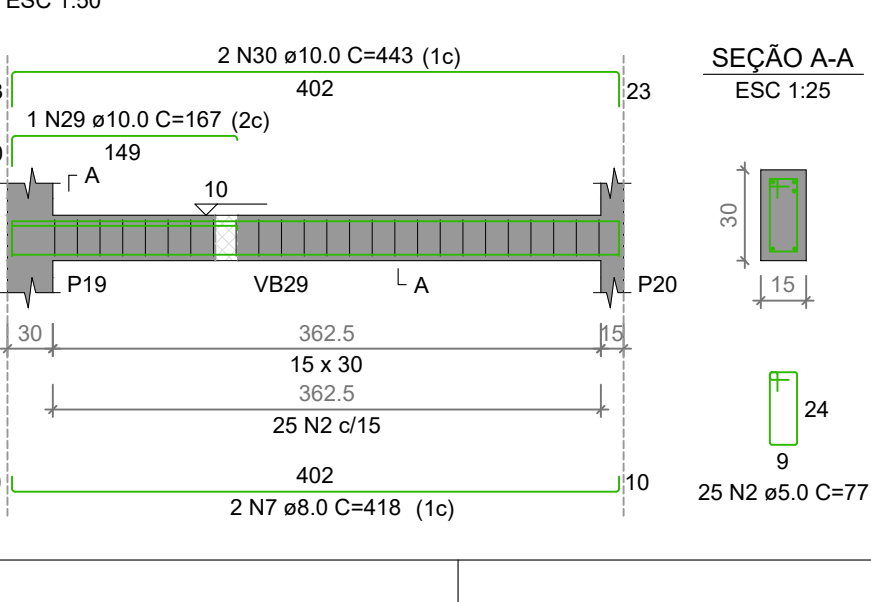
VB9 (15 x 30)



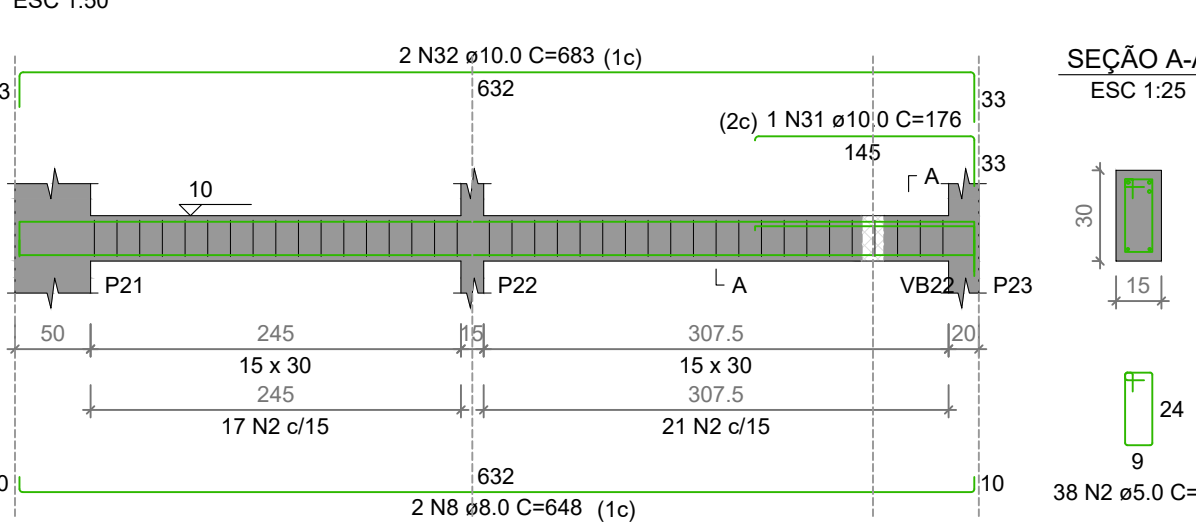
VB10 (15 x 30)



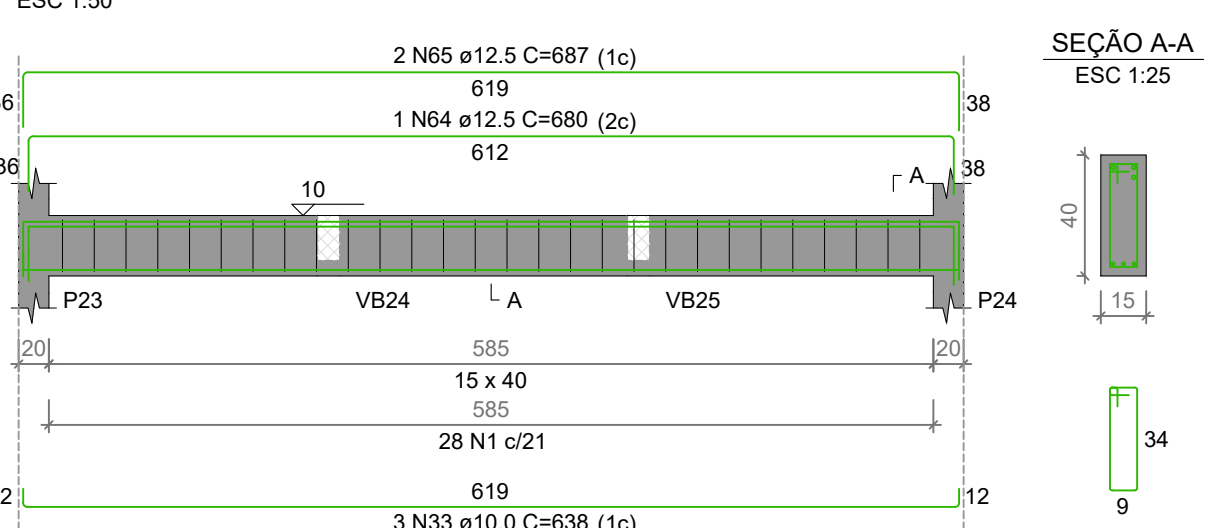
VB11 (15 x 30)



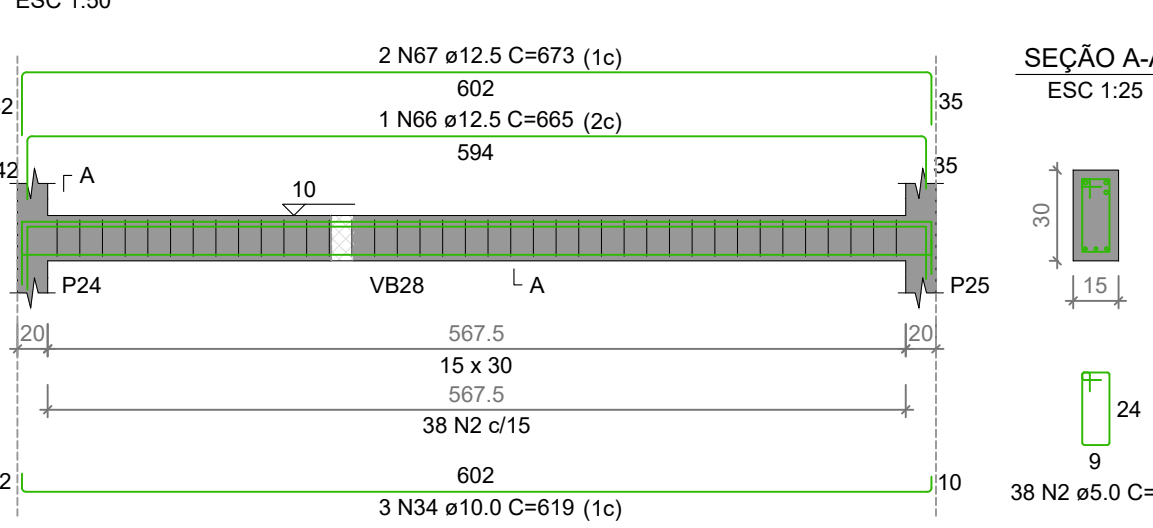
VB12 (15 x 30)



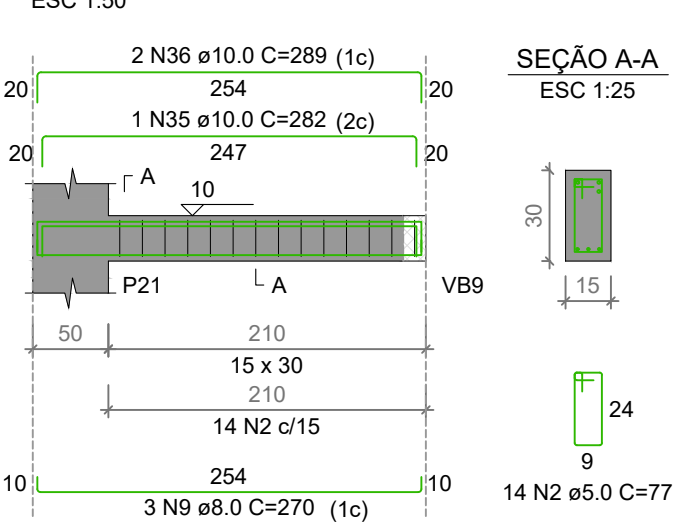
VB13 (15 x 40)



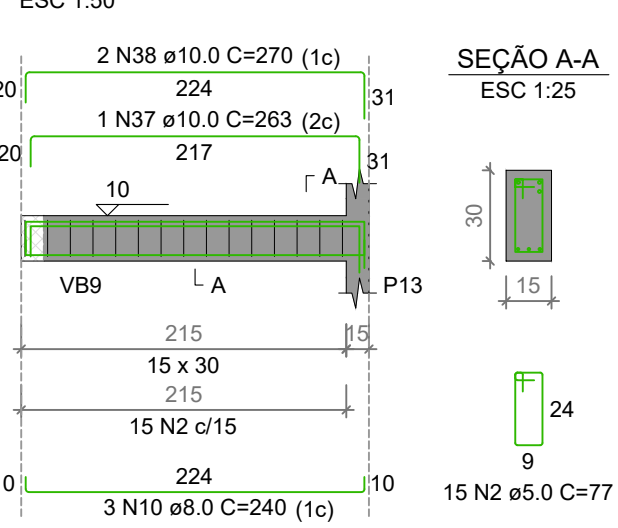
VB14 (15 x 30)



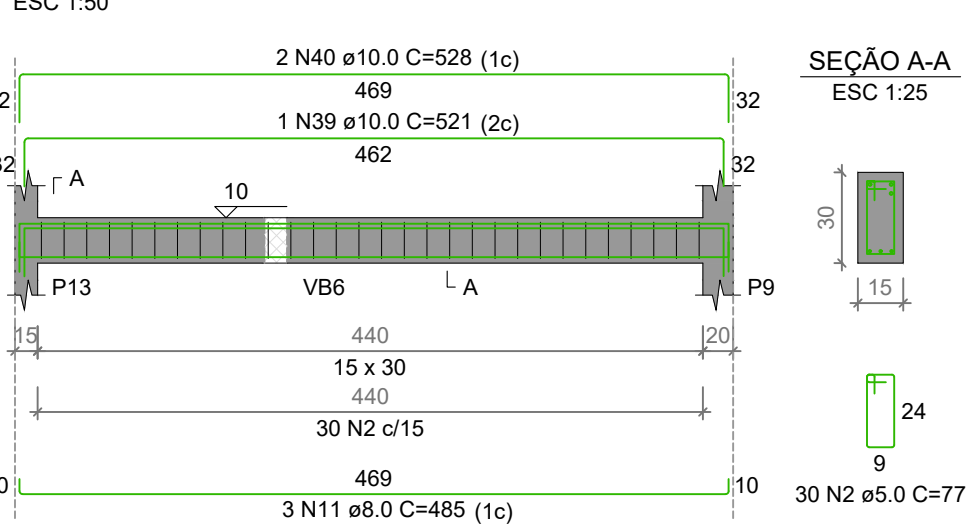
VB15 (15 x 30)



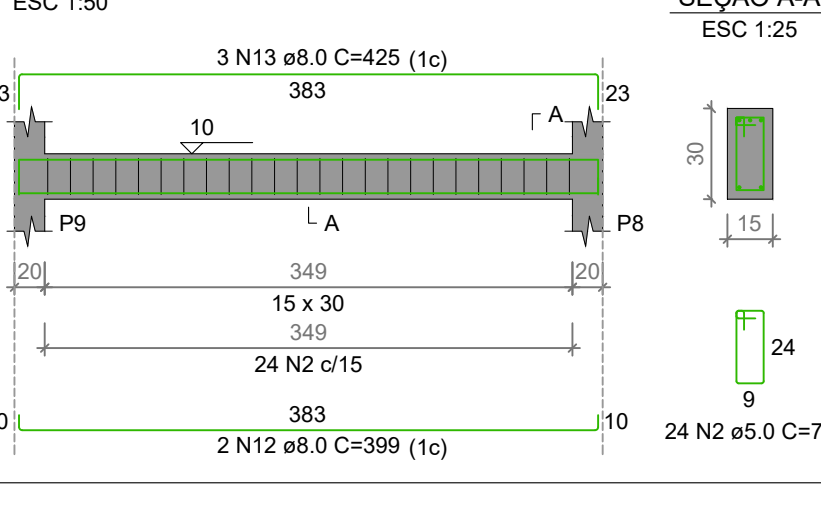
VB16 (15 x 30)



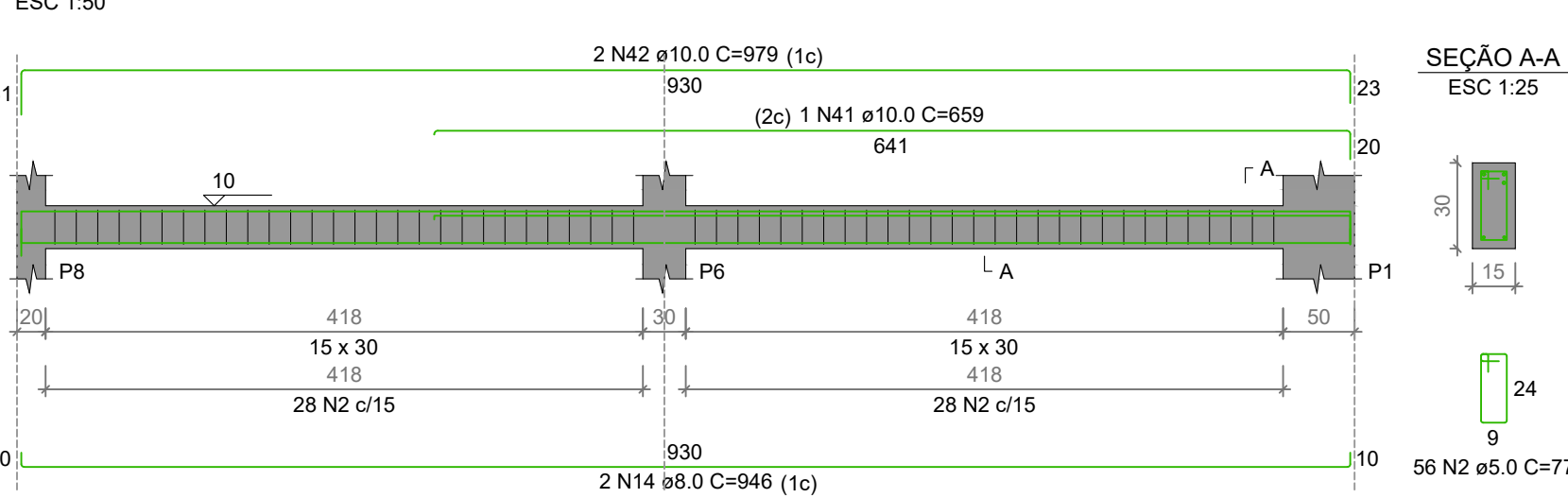
VB17 (15 x 30)



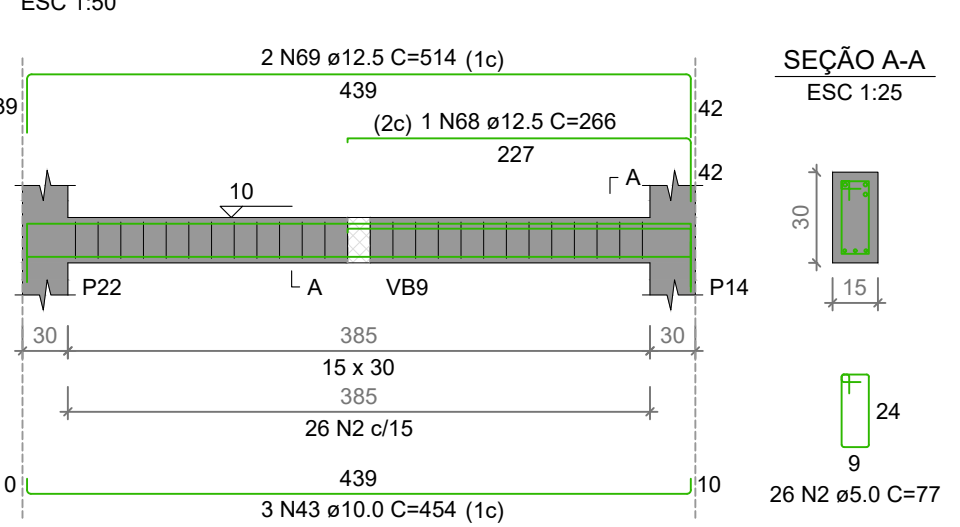
VB18 (15 x 30)



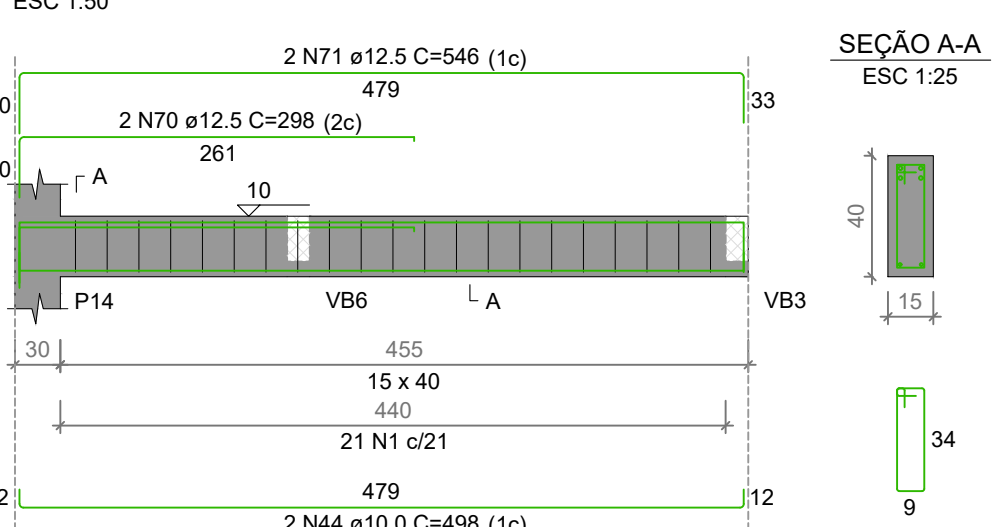
VB19 (15 x 30)



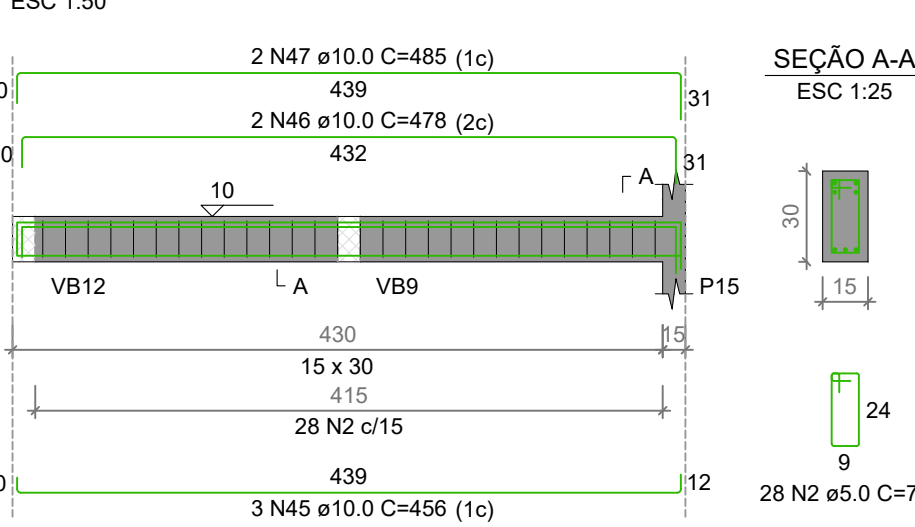
VB20 (15 x 30)



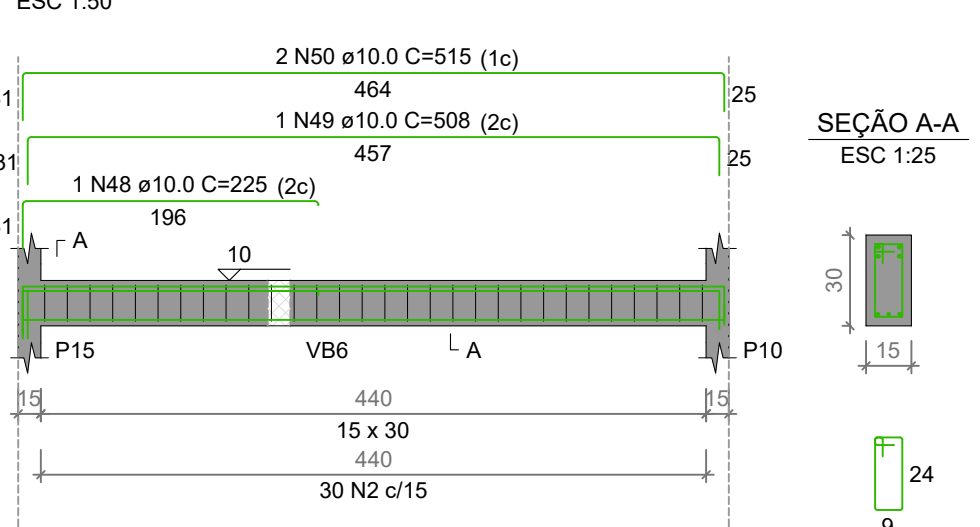
VB21 (15 x 40)



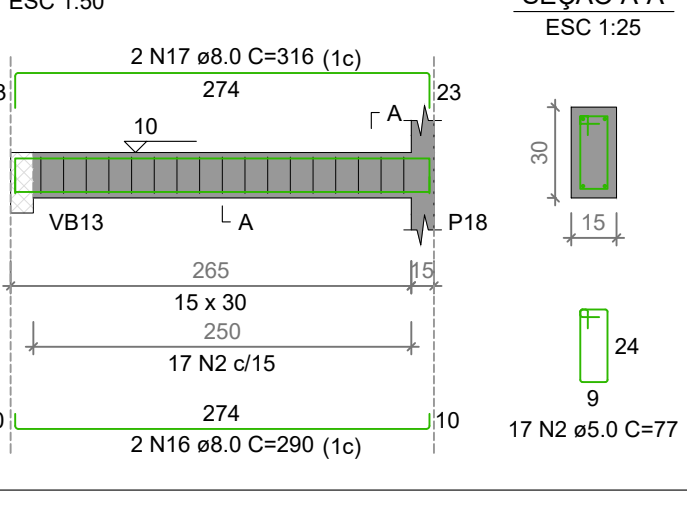
VB22 (15 x 30)



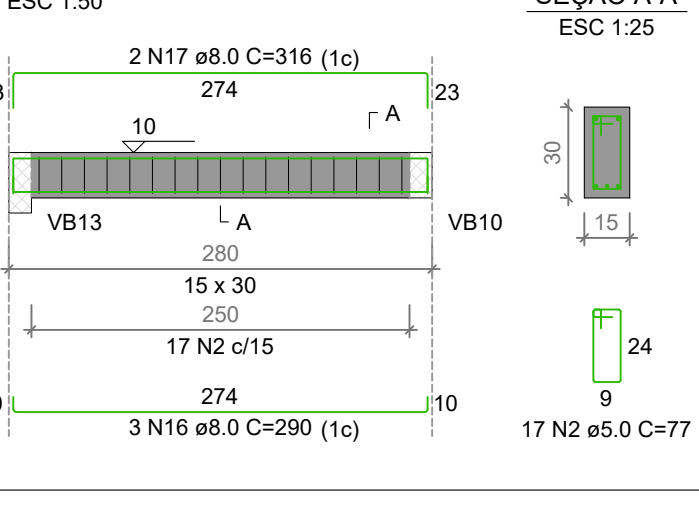
VB23 (15 x 30)



VB24 (15 x 30)



VB25 (15 x 30)



RELAÇÃO DO AÇO				
AÇO	N	DIAM (mm)	QUANT	C.TOTAL (cm)
CA50	1	10.0	159	159.3
CA50	2	5.0	596	77
CA50	3	8.0	555	3330
CA50	4	8.0	381	3486
CA50	5	8.0	380	729
CA50	6	8.0	386	772
CA50	7	8.0	418	836
CA50	8	8.0	646	1296
CA50	9	8.0	270	610
CA50	10	8.0	240	720
CA50	11	8.0	435	1455
CA50	12	8.0	399	799
CA50	13	8.0	425	1275
CA50	14	8.0	946	1892
CA50	15	8.0	480	1440
CA50	16	8.0	290	1450
CA50	17	8.0	315	1264
CA50	18	10.0	2692	1545
CA50	19	10.0	919	2757
CA50	20	10.0	590	590
CA50	21	10.0	597	1701
CA50	22	10.0	80	80
CA50	23	10.0	704	2112
CA50	24	10.0	622	1866
CA50	25	10.0	655	1310
CA50	26	10.0	662	1324
CA50	27	10.0	640	640
CA50	28	10.0	1941	1941
CA50	29	10.0	167	167
CA50	30	10.0	443	886
CA50	31	10.0	176	176
CA50	32	10.0	683	1366
CA50	33	10.0	638	1914
CA50	34	10.0	619	1857
CA50	35	10.0	282	282
CA50	36	10.0	289	578
CA50	37	10.0	283	283
CA50	38	10.0	270	521
CA50	39	10.0	528	1056
CA50	40	10.0	659	659
CA50	41	10.0	979	1958
CA50	42	10.0	454	1362
CA50	43	10.0	498	896
CA50	44	10.0	1368	1368
CA50	45	10.0	476	956
CA50	46	10.0	485	970
CA50	47	10.0	225	225
CA50	48	10.0	508	508
CA50	49	10.0	515	1030
CA50	50	12.5	982	982
CA50	51	12.5	989	1978
CA50	52	12.5	997	1994
CA50	53	12.5	339	339
CA50	54	12.5	970	1940
CA50	55	12.5	975	1956
CA50	56	12.5	240	240
CA50	57	12.5	608	608
CA50	58	12.5	616	1232
CA50	59	12.5	759	759
CA50	60	12.5	766	1532
CA50	61	12.5	678	1356
CA50	62	12.5	685	1372
CA50	63	12.5	686	686
CA50	64	12.5	680	680
CA50	65	12.5	687	1374
CA50	66	12.5	685	685
CA50	67	12.5	673	1346
CA50	68	12.5	266	266
CA50	69	12.5	514	1028
CA50	70	12.5	298	596
CA50	71	12.5	546	1092

RESUMO DO AÇO			
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	215.4	93.5
CA50	10.0	369.3	250.5
CA50	12.5	233.3	247.3
CA50	5.0	614.7	104.2
PESO TOTAL (kg)		591.2	104.2
CA50		591.2	104.2
CA60		591.2	104.2
Volume de concreto (C-30) = 5.97 m³			
Área de forma = 98.03 m²			

Nº	ALTERAÇÃO/REVISÕES	REVISADO POR	DATA



INSTITUTO FEDERAL
SERGIPE

AUTOR DO PROJETO:

Engº. Fredrico Damasceno Pinheiro
CREA 270082778-3



AD
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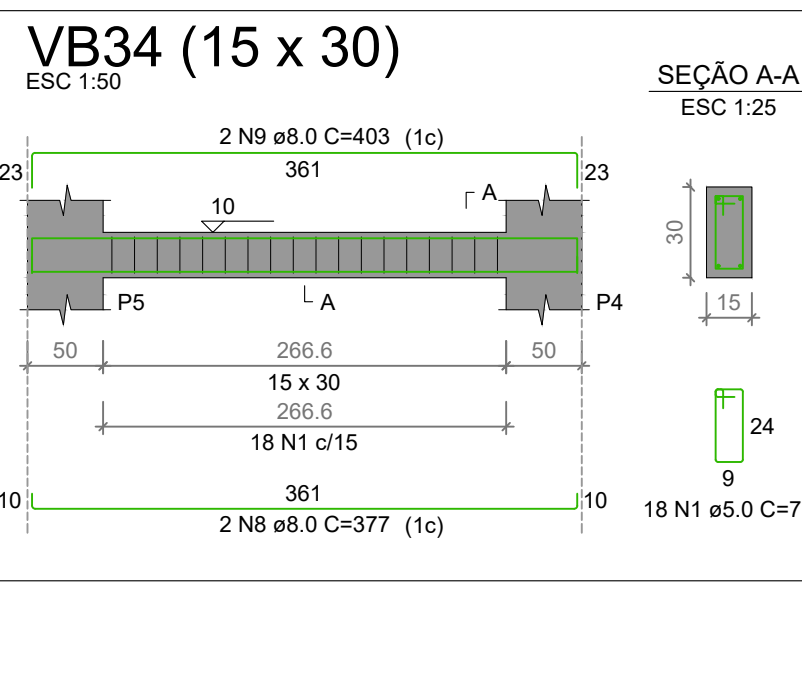
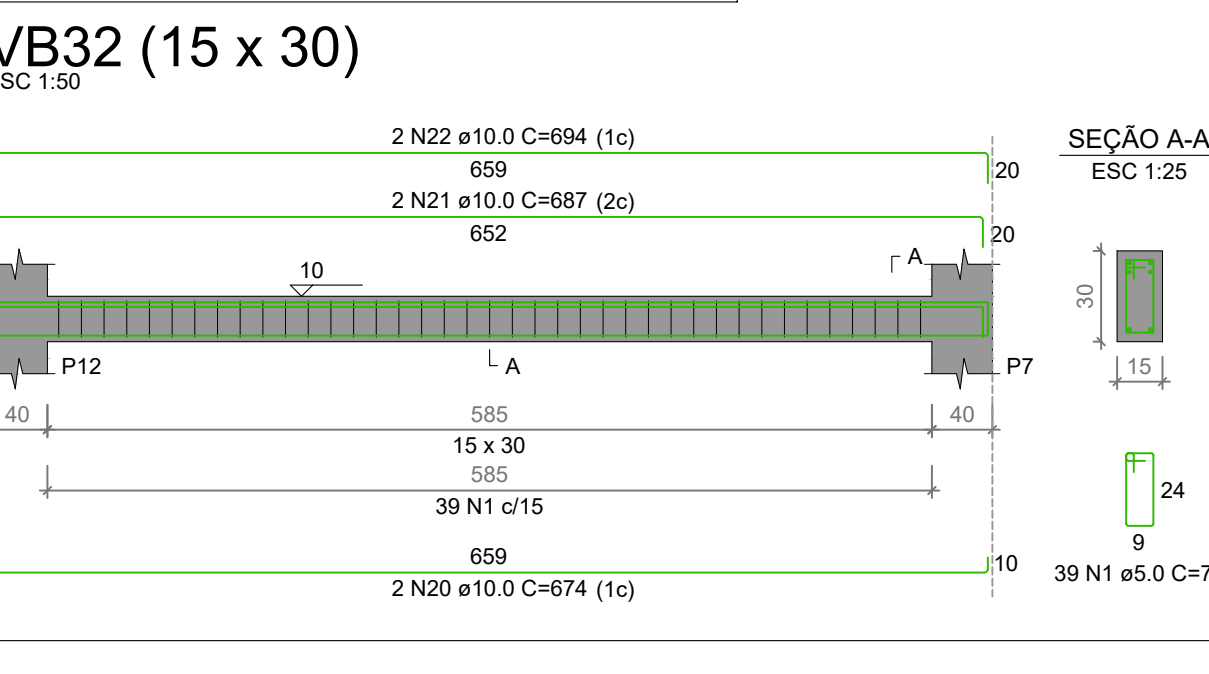
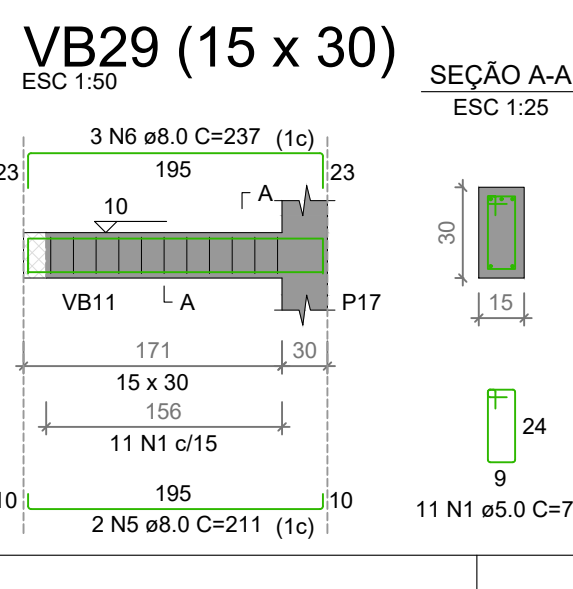
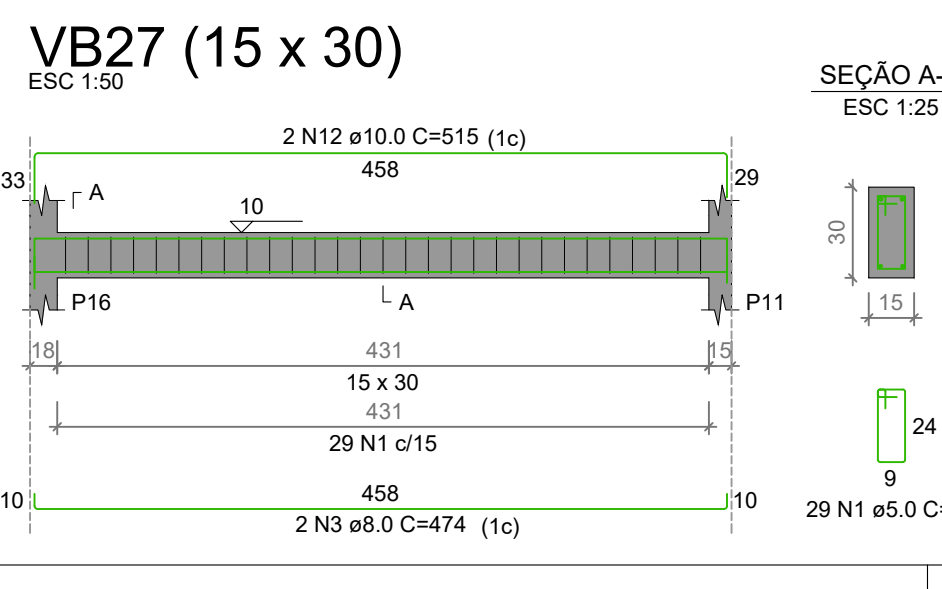
ENDEREÇO:

Rua Dom José Thomaz, 194 - Bairro São José - Aracaju/SE
dipop@ifs.edu.br

TEL: (79)3711-3139

PROJETO ESTRUTURAL RESTAURANTE - CAMPUS ARACAJU/SE

CLIENTE:	INSTITUTO FEDERAL DE SERGIPE - CAMPUS ARACAJU
ENDEREÇO:	AV. ENGENHEIRO GENTIL TAVARES, 1166, GETÚLIO VARGAS, ARACAJU - SE
PLANTA:	RESTAURANTE ARMAÇÃO DAS VIGAS BALDRAMES 1-2
ESCALA:	1:100
DATA:	JULHO/2026
PRANCHA:	06/17



RELAÇÃO DO AÇO						
VB26		VB27		VB28		
VB29		VB30		VB31		
VB32		VB33		VB34		
ACO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)	
CA80		8.0	226		1812	
CA50	2	8.0	2	325	650	
	3	8.0	5	470	2350	
	4	8.0	2	294	588	
	5	8.0	2	211	422	
	6	8.0	3	237	711	
	7	8.0	2	309	618	
	8	8.0	3	377	1131	
	9	8.0	2	437	874	
	10	10.0	2	344	688	
	12	10.0	2	515	1030	
	13	10.0	1	308	308	
	14	10.0	2	315	630	
	15	10.0	1	488	488	
	16	10.0	2	453	986	
	17	10.0	2	645	1290	
	18	10.0	2	788	1578	
	19	10.0	2	988	1976	
	20	10.0	4	674	2696	
	21	10.0	4	884	3536	
	22	10.0	4	984	3936	

RESUMO DO AÇO			
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	69.1	30
	10.0	178.7	121.2
CA60	5.0	197.1	33.4
PESO TOTAL (kg)			
CA50	151.2		
CA60	33.4		

Volume de concreto (C-30) = 1.71 m³
Área de forma = 28.50 m²



Nº	ALTERAÇÃO/REVISÕES	REVISADO POR	DATA

 INSTITUTO FEDERAL SERGIPE	AUTOR DO PROJETO: Eng^o. Fredrico Damasceno Pinheiro CREA 270082778-3	 ENGENHARIA adengenharis.eng.br
ENDEREÇO: Rua Dom José Thomaz, 194 - Bairro São José - Aracaju/SE dipop@ifs.edu.br TEL: (79)3711-3139		

PROJETO ESTRUTURAL
RESTAURANTE - CAMPUS ARACAJU/SE

CLIENTE: INSTITUTO FEDERAL DE SERGIPE - CAMPUS ARACAJU

ENDEREÇO:

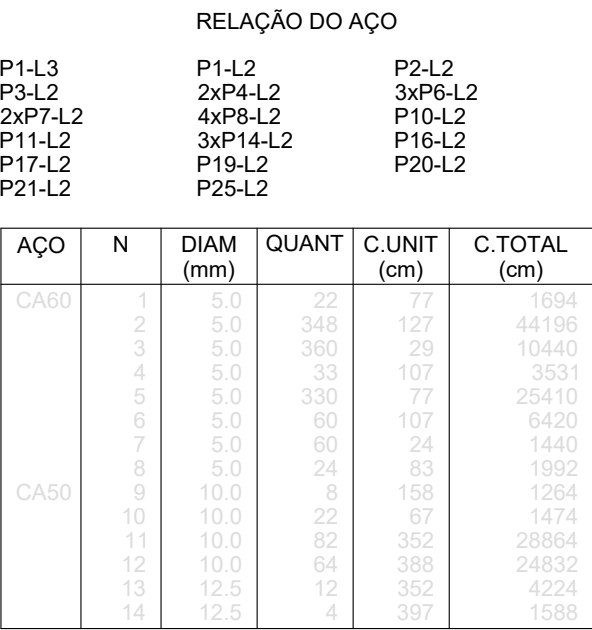
ESCALA: 1:100

PLANTA: RESTAURANTE
ARMAÇÃO DAS VIGAS BALDRAMES 2 - 2 e CORTES A e B

JULHO/2026

07/17

CAMPUS:	OBRA:	ESPECIALIDADE:	FASE:	SERIAL:	QUANTITATIVO:	REVISÃO:													
A	J	U	R	E	S	E	S	T	P	E	0	0	7	0	1	7	R	0	0



AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	564.3	382.7
	12.5	58.1	61.6
CA60	5.0	951.2	161.3

PESO TOTAL (kg)	
CA50	444.3
CA60	161.3

Volume de concreto (C-30) = 6.89 m³
Área de forma = 106.54 m²

Nº	ALTERAÇÃO/REVISÕES	REVISADO POR	DATA

 INSTITUTO FEDERAL SERGIPE	AUTOR DO PROJETO: Eng^o. Fredrico Damasceno Pinheiro CREA 270082778-3	 adengenharia.eng.br
ENDEREÇO: Rua Dom José Thomaz, 194 - Bairro São José - Aracaju/SE dipop@ifs.edu.br TEL: (79)3711-3139		

PROJETO ESTRUTURAL
RESTAURANTE - CAMPUS ARACAJU/SE

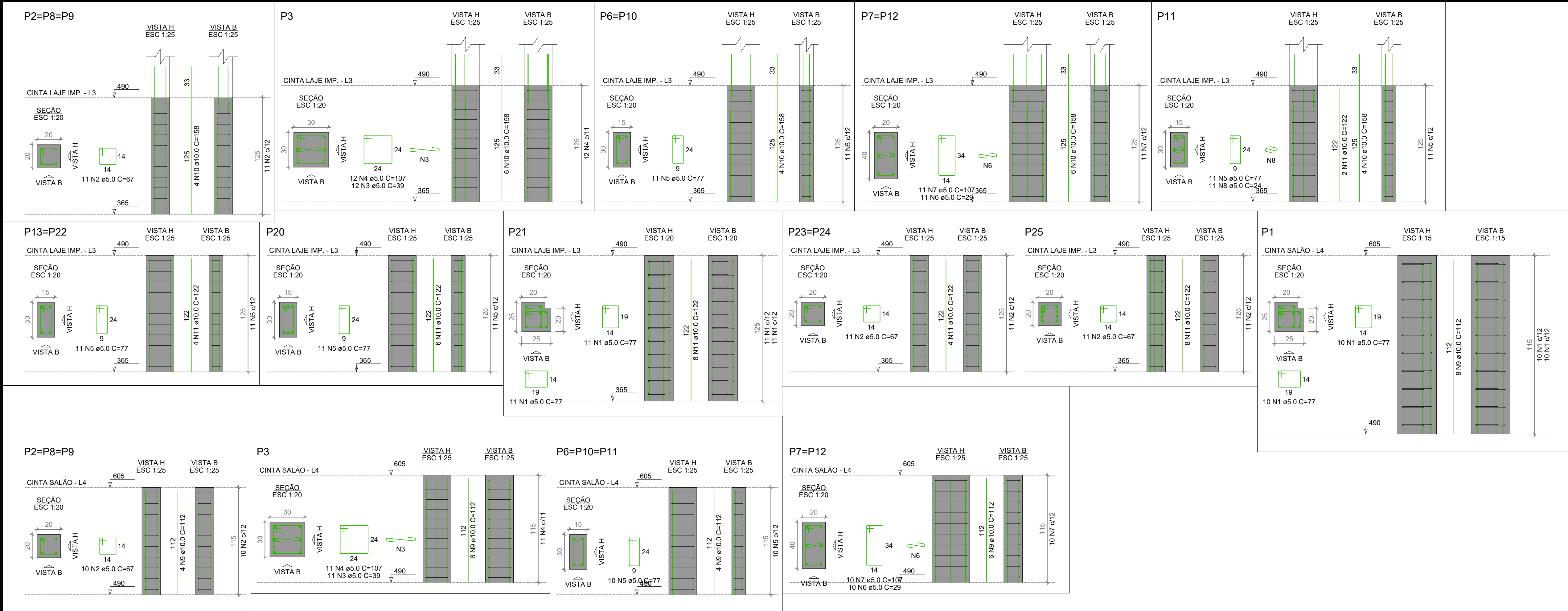
CLIENTE: INSTITUTO FEDERAL DE SERGIPE - CAMPUS ARACAJU

ENDEREÇO:	ESCALA:
AV. ENGENHEIRO GENTIL TAVARES, 1146 - GETÚLIO VARGAS, ARACAJU, SE	1:100

PLANTA:	RESTAURANTE	JULHO/2026
	ARMADILHA DAS VIGAS BALDRAMES 2 - 2	PRANCHA:

CAMPUS: CÉREA: ESPECIALIDADE: FASE: SERIAL: QUANTITATIVO: REVISÃO:

08/17

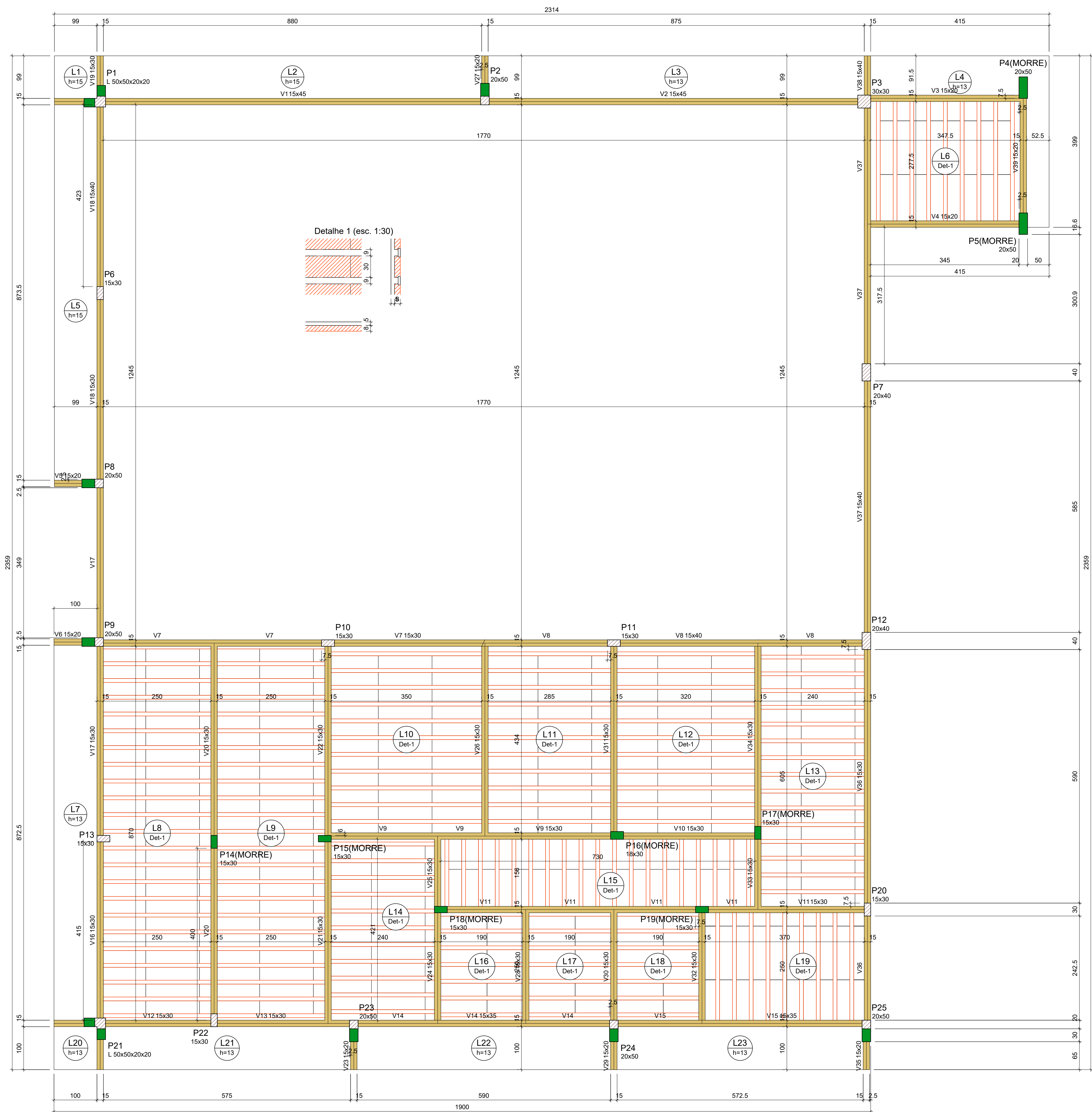


RELAÇÃO DO AÇO					
P1-L4	3xP2-L4	3xP2-L3			
P3-L4	P3-L3	3xP6-L4			
2xP6-L3	2xP7-L4	2xP7-L3			
P11-L3	2xP13-L3	P20-L3			
P21-L3	2xP23-L3	P25-L3			
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	42	77	3234
	2	5.0	86	87	6432
	3	5.0	23	39	897
	4	5.0	23	107	2461
	5	5.0	86	77	7392
	6	5.0	42	29	1218
	7	5.0	42	107	4494
CA50	8	5.0	11	24	264
	9	10.0	50	112	5600
	10	10.0	42	158	6636
	11	10.0	46	122	4880

RESUMO DO AÇO			
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	171.2	116.1
CA60	5.0	263.9	44.7
PESO TOTAL (kg)			
CA50	116.1		
CA60	44.7		
Volume de concreto (C-30) = 1.67 m³			
Área de forma = 29.66 m²			

Nº	ALTERAÇÃO/REVISÕES	REVISADO POR	DATA
AUTOR DO PROJETO:			
Engº. Fredrico Damasceno Pinheiro CREA 270082778-3			
ENDEREÇO:			
Rua Dom José Thomaz, 194 - Bairro São José - Aracaju/SE dipop@ifs.edu.br TEL: (79)3711-3139			

PROJETO ESTRUTURAL	
RESTAURANTE - CAMPUS ARACAJU/SE	
CLIENTE:	INSTITUTO FEDERAL DE SERGIPE - CAMPUS ARACAJU
ENDEREÇO:	AV. ENGENHEIRO GENTIL TAVARES, 1166, GETÚLIO VARGAS, ARACAJU - SE
PLANTA:	RESTAURANTE ARMAÇÃO DOS PILARES 2 - 2
ESCALA:	1:100
DATA:	JULHO/2026
PRANCHA:	09/17
CAMPO: OBRA ESPECIALIDADE FASE SERIAL QUANTITATIVO ROTEIRO	
AJU RES EST PE 009 017 R00	



Forma do pavimento LAJE IMP. (Nível 365)

escala 1:50

Vigas				Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)	Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	15x45	0	365	P1	L 50x50x20x20	0	365
V2	15x45	0	365	P2	20x50	0	365
V3	15x20	0	365	P3	30x30	0	365
V4	15x20	0	365	P4	20x50	0	365
V5	15x20	0	365	P5	20x50	0	365
V6	15x20	0	365	P6	15x30	0	365
V7	15x30	0	365	P7	20x40	0	365
V8	15x40	0	365	P8	20x50	0	365
V9	15x30	0	365	P9	20x50	0	365
V10	15x30	0	365	P10	15x30	0	365
V11	15x30	0	365	P11	15x30	0	365
V12	15x30	0	365	P12	20x40	0	365
V13	15x30	0	365	P13	15x30	0	365
V14	15x35	0	365	P14	15x30	0	365
V15	15x35	0	365	P15	15x30	0	365
V16	15x30	0	365	P16	18x30	0	365
V17	15x30	0	365	P17	15x30	0	365
V18	15x30	0	365	P18	15x30	0	365
V19	15x30	0	365	P19	15x30	0	365
V20	15x30	0	365	P20	15x30	0	365
V21	15x30	0	365	P21	L 50x50x20x20	0	365
V22	15x30	0	365	P22	15x30	0	365
V23	15x20	0	365	P23	20x50	0	365
V24	15x30	0	365	P24	20x50	0	365
V25	15x30	0	365	P25	20x50	0	365
V26	15x30	0	365				
V27	15x20	0	365				
V28	15x30	0	365				
V29	15x20	0	365				
V30	15x30	0	365				
V31	15x30	0	365				
V32	15x30	0	365				
V33	15x30	0	365				
V34	15x30	0	365				
V35	15x20	0	365				
V36	15x30	0	365				
V37	15x40	0	365				
V38	15x40	0	365				
V39	15x20	0	365				

Legenda dos pilares

 Pilar que morre

 Pilar que passa

 Pilar com mudança de seção

Legenda das vigas e paredes

 Viga

Lajes							
Dados				Sobrecarga (kgf/m²)			
Nome	Tipo	Altura (cm)	Elevação (cm)	Nível (cm)	Peso próprio (kgf/m²)	Adicional	Acidental
L1	Maciça	15	0	365	375	50	100
L2	Maciça	15	0	365	375	50	100
L3	Maciça	13	0	365	325	50	100
L4	Maciça	13	0	365	325	50	100
L5	Maciça	15	0	365	375	50	100
L6	Trelçada 1D	13	0	365	172	50	100
L7	Maciça	13	0	365	325	50	100
L8	Trelçada 1D	13	0	365	172	50	100
L9	Trelçada 1D	13	0	365	172	50	100
L10	Trelçada 1D	13	0	365	172	50	100
L11	Trelçada 1D	13	0	365	172	50	100
L12	Trelçada 1D	13	0	365	172	50	100
L13	Trelçada 1D	13	0	365	172	50	100
L14	Trelçada 1D	13	0	365	172	50	100
L15	Trelçada 1D	13	0	365	172	50	100
L16	Trelçada 1D	13	0	365	172	50	100
L17	Trelçada 1D	13	0	365	172	50	100
L18	Trelçada 1D	13	0	365	172	50	100
L19	Trelçada 1D	13	0	365	172	50	100
L20	Maciça	13	0	365	325	50	100
L21	Maciça	13	0	365	325	50	100
L22	Maciça	13	0	365	325	50	100
L23	Maciça	13	0	365	325	50	100

Área de lajes			
Tipo	Altura (cm)	Bloco de Enchimento	Área (m²)
Maciça	13		40.98
Maciça	15		18.29
Trelçada 1D	13	B8/30/125	154.04

Características dos materiais			
fck (kgf/cm²)	Ecs (kgf/cm²)	fct (kgf/cm²)	Abatimento (cm)
300	268384	29	5.00

Dimensão máxima do agregado = 19 mm

Blocos de enchimento				
Detalhe	Tipo	Nome	Dimensões (cm)	Quantidade
1	EPS Unidirecional	B8/30/125	8 30 125	438

Nº	ALTERAÇÃO/REVISÕES	REVISADO POR	DATA



INSTITUTO FEDERAL
SERGIPE

AUTOR DO PROJETO:

Engº. Fredrico Damasceno Pinheiro
CREA 270082778-3



AD
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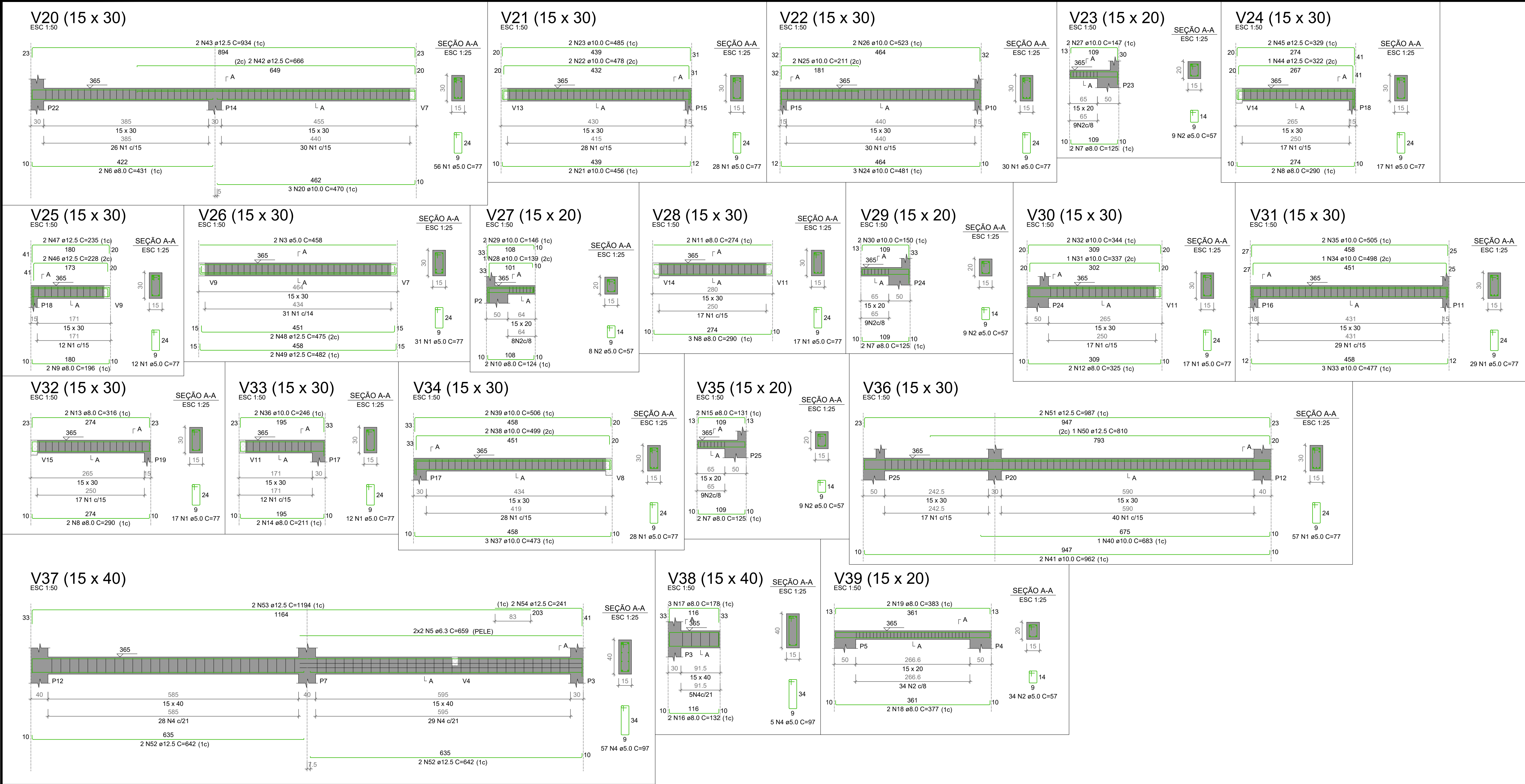
ENDEREÇO:

Rua Dom José Thomaz, 194 - Bairro São José - Aracaju/SE
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TEL: (79)3711-3139

PROJETO ESTRUTURAL
RESTAURANTE - CAMPUS ARACAJU/SE

CLIENTE:	INSTITUTO FEDERAL DE SERGIPE - CAMPUS ARACAJU	ESCALA:	1:100
ENDEREÇO:	AV. ENGENHEIRO GENTIL TAVARES, 1166, GETÚLIO VARGAS, ARACAJU - SE	DATA:	JULHO/2026
PLANTA:	RESTAURANTE FORMA DO PAV. LAJE IMP.	PRANCHA:	10/17
CAMPO: ORN: ESPECIALIDADE: FASE: SERIAL: QUANTITATIVO: REVISÃO: 			



RELAÇÃO DO AÇO					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V20	1	5.0	351	77	27027
V23	2	5.0	69	57	3933
V24	3	5.0	2	458	916
V26	4	5.0	62	97	6014
V29	5	6.3	659	659	2836
V32	6	8.0	431	862	3726
V35	7	8.0	125	759	759
V38	8	8.0	290	2030	2030
	9	8.0	196	392	392
	10	8.0	124	246	246
	11	8.0	274	548	548
	12	8.0	325	850	850
	13	8.0	332	1161	1161
	14	8.0	211	422	422
	15	8.0	131	262	262
	16	8.0	132	264	264
	17	8.0	150	334	334
	18	8.0	377	754	754
	19	8.0	383	766	766
	20	10.0	470	940	940
	21	10.0	456	912	912
	22	10.0	478	956	956
	23	10.0	485	970	970
	24	10.0	481	964	964
	25	10.0	211	422	422
	26	10.0	523	1046	1046
	27	10.0	147	294	294
	28	10.0	139	278	278
	29	10.0	146	292	292
	30	10.0	330	660	660
	31	10.0	337	674	674
	32	10.0	344	688	688
	33	10.0	477	954	954
	34	10.0	486	972	972
	35	10.0	505	1010	1010
	36	10.0	246	492	492
	37	10.0	473	946	946
	38	10.0	499	998	998
	39	10.0	506	1012	1012
	40	10.0	693	1386	1386
	41	10.0	662	1324	1324
	42	12.5	666	1332	1332
	43	12.5	934	1868	1868
	44	12.5	322	644	644
	45	12.5	329	658	658
	46	12.5	228	456	456
	47	12.5	235	470	470
	48	12.5	475	950	950
	49	12.5	482	964	964
	50	12.5	810	1620	1620
	51	12.5	887	1774	1774
	52	12.5	642	1284	1284
	53	12.5	1194	2388	2388
	54	12.5	241	482	482

RESUMO DO AÇO			
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	26.4	7.1
	8.0	91.1	39.6
	10.0	186.8	126.7
	12.5	152.4	161.5
CA60	5.0	378.9	64.2
PESO TOTAL (kg)			
CA50		334.8	
CA60		64.2	
Volume de concreto (C-30) = 3.25 m³			
Área de forma = 39.57 m²			

INSTITUTO FEDERAL
SERGIPE

AUTOR DO PROJETO:

Engº. Fredrico Damasceno Pinheiro
CREA 270082778-3

ENDEREÇO:

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adengenaria.eng.br

Nº

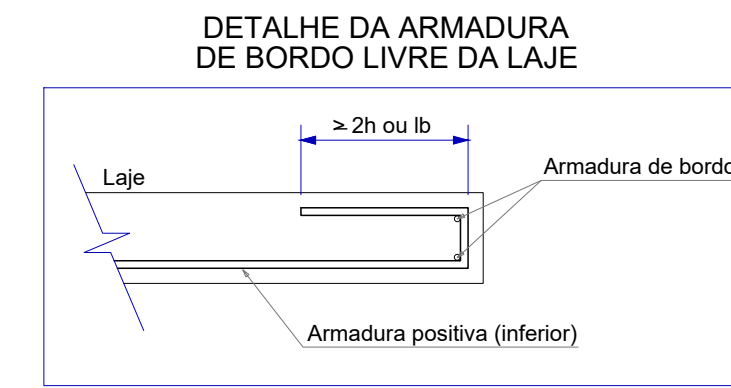
ALTERAÇÃO/REVISÕES

REVISADO POR

DATA

PROJETO ESTRUTURAL
RESTAURANTE - CAMPUS ARACAJU/SE

CLIENTE:	INSTITUTO FEDERAL DE SERGIPE - CAMPUS ARACAJU
ENDEREÇO:	AV. ENGENHEIRO GENTIL TAVARES, 1166, GETÚLIO VARGAS, ARACAJU - SE
PLANTA:	RESTAURANTE ARMAÇÃO DAS VIGAS DO PAV. LAJE IMP. 2-2
PRANCHA:	12/17



Positivos

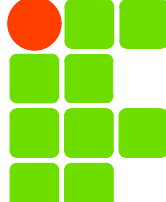
RELAÇÃO DO AÇO					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (CM)	C.TOTAL (CM)
CABO	1	5.0	18	302	5436
	2	5.0	15	VAR	VAR
	3	5.0	92	VAR	VAR
	4	5.0	28	VAR	VAR
	5	5.0	23	374	8602
	6	5.0	50	458	22900
	7	5.0	23	309	7107
	8	5.0	23	344	7912
	9	5.0	32	264	8448
	10	5.0	13	VAR	VAR
	11	5.0	22	VAR	VAR
	12	5.0	13	VAR	VAR
	13	5.0	38	VAR	VAR
	14	5.0	8	754	6036
	15	5.0	39	214	8346
	16	5.0	49	274	13426
CASO	17	5.0	13	394	5122
	18	5.0	13	422	5486
	19	5.0	7	154	1084
	19	5.0	7	608	4256
	20	6.3	48	152	7296
	21	6.3	13	VAR	VAR
	22	6.3	16	138	2208
	23	6.3	15	99	1485
	24	6.3	8	462	3696
	25	6.3	2	65	130
	26	6.3	2	394	788
	27	6.3	2	425	850
	28	6.3	17	407	26186
	29	6.3	9	1408	8172
	30	6.3	2	898	1796
	31	6.3	4	907	3628
32	6.3	2	1100	4240	
33	8.0	49	153	7496	
34	8.0	4	109	436	
35	8.0	5	918	4590	
36	8.0	2	905	1810	
37	8.0	6	910	5460	
38	8.0	46	149	6716	
39	8.0	2	900	1800	
40	8.0	5	912	4560	
41	8.0	2	889	1778	
42	8.0	6	625	3750	
43	8.0	2	615	1230	
44	8.0	6	608	3648	
45	8.0	2	598	1196	

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	554.8	149.3
	8.0	444.9	193.1
CA60	5.0	1792.9	304
PESO TOTAL (kg)			
CA50	342.5		
CA60	304		

The floor plan shows a large rectangular building with a central corridor and several rooms. The rooms are labeled with numbers and names, such as 'SALA DE REUNIUNEA' (Meeting Room), 'SALA DE LECTURA' (Reading Room), 'SALA DE TRUCAT' (Workshop), and 'SALA DE STUDIU' (Study Room). The plan includes dimensions, room numbers, and names. The building is oriented with a north arrow pointing towards the top right. The plan is drawn in black lines on a white background.

Nº	ALTERAÇÃO/REVISÕES	REVISADO POR	DATA



INSTITUTO FEDERAL
SERGIPE

AUTOR DO PROJETO:

Eng°. Fredrico Damasceno Pinheiro
CREA 270082778-3



ENDEREÇO:

Rua Dom José Thomaz, 194 - Bairro São José - Aracaju/SE
dipop@ifs.edu.br

TEL: (79)3711-3139

PROJETO ESTRUTURAL
RESTAURANTE - CAMPUS ARACAJU/SE

CLIENTE: INSTITUTO FEDERAL DE SERGIPE - CAMPUS ARACAJU

ENDEREÇO:	ES
AV. ENGENHEIRO GENTIL TAVARES, 1166, GETÚLIO VARGAS, ARACAJU - SE	DA

PLANTA: RESTAURANTE
ARMAÇÃO POSITIVA DAS LAJES PAV. LAJ IMP.

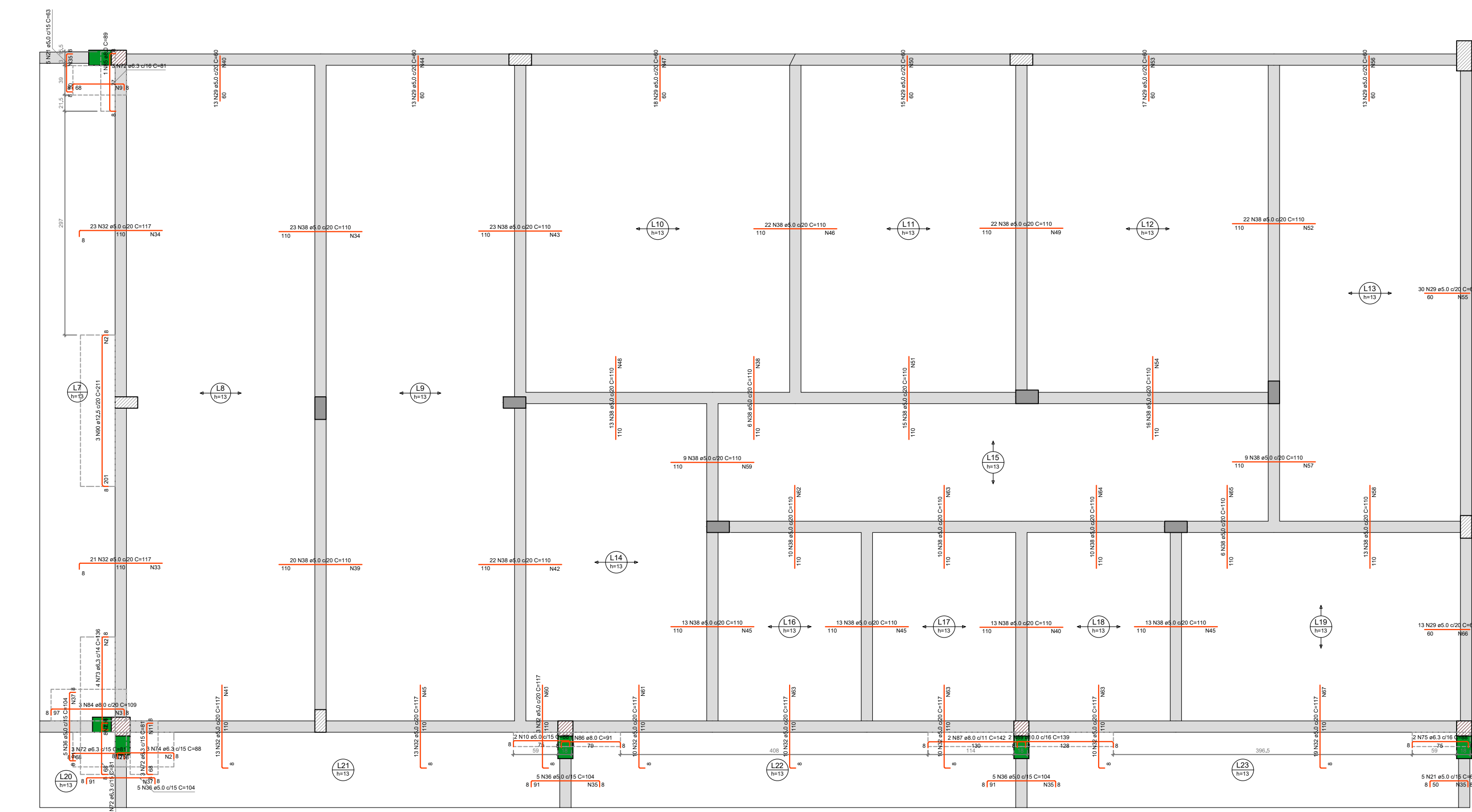
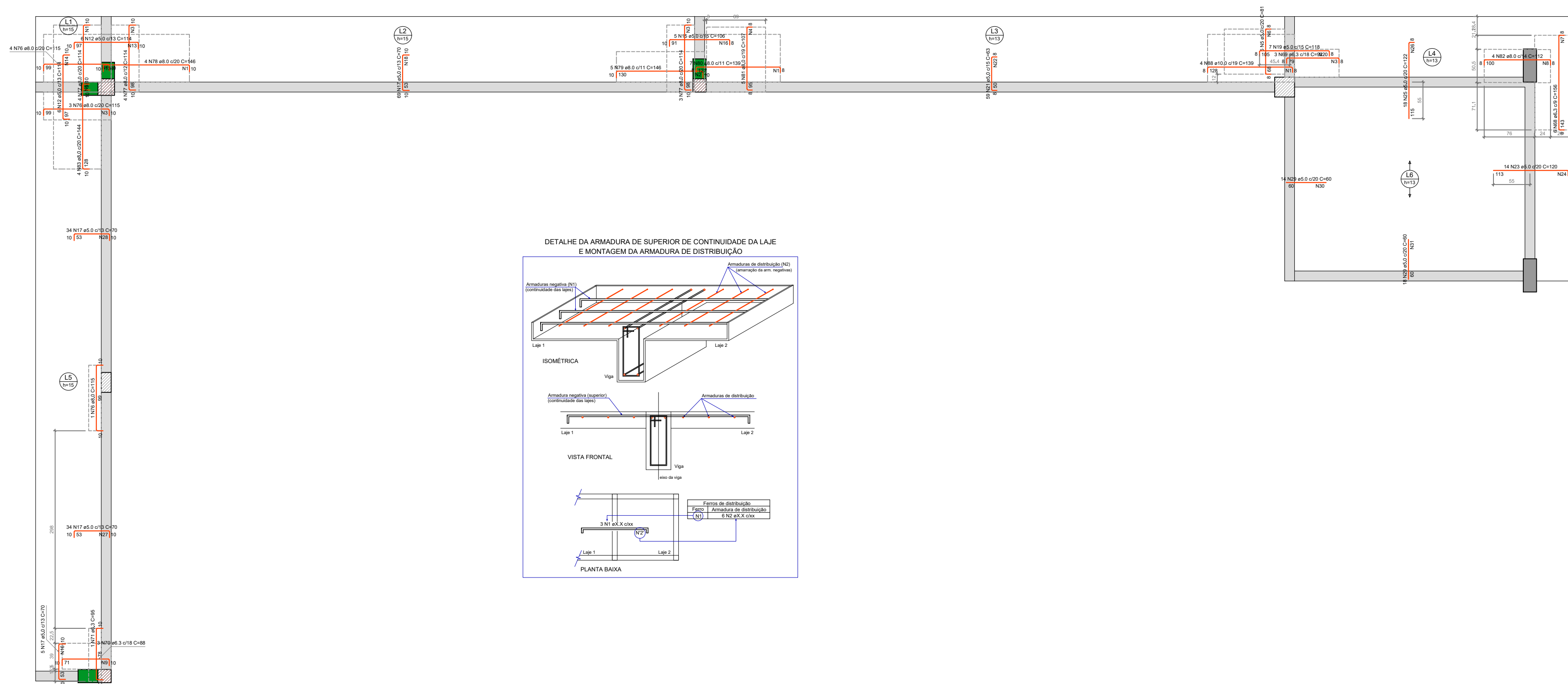
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E	S	T	P	E	0	1
3	0	1	7	R	0	0

SCALA: 1:100

ATA:
IIJ HQ/2026

RANCHA:

13/17



Armação negativa das lajes do pavimento LAJE IMP.

Armaduras de distribuição	
Armadura	Armadura de distribuição
N76	6 N1 a5.0 c/17 C=72
N77	6 N1 a5.0 c/17 C=72
N76	6 N1 a5.0 c/17 C=72
N79	8 N2 a5.0 c/17 C=46
N77	6 N3 a5.0 c/17 C=42
N77	6 N3 a5.0 c/17 C=42
N80	7 N1 a5.0 c/20 C=72
N88	7 N1 a5.0 c/20 C=72
N81	5 N4 a5.0 c/20 C=89
N5	4 N6 a5.0 c/20 C=91
N68	8 N7 a5.0 c/20 C=53
N82	5 N8 a5.0 c/20 C=50
N89	4 N3 a5.0 c/20 C=42
N70	5 N9 a5.0 c/17 C=39
N76	6 N3 a5.0 c/17 C=42
N83	8 N1 a5.0 c/17 C=72
N84	5 N3 a5.0 c/20 C=42
N72	4 N5 a5.0 c/20 C=39
N73	7 N2 a5.0 c/20 C=46
N90	13 N2 a5.0 c/16 C=46
N72	4 N2 a5.0 c/20 C=46
N72	4 N2 a5.0 c/20 C=46
N74	4 N2 a5.0 c/20 C=46
N72	4 N11 a5.0 c/20 C=37
N12	6 N13 a5.0 c/17 C=78
N12	6 N14 a5.0 c/17 C=83
N15	5 N16 a5.0 c/20 C=70
N17	4 N18 a5.0 c/17 C=86
N19	6 N20 a5.0 c/20 C=104
N21	3 N22 a5.0 c/20 C=881
N23	6 N24 a5.0 c/20 C=279
N25	6 N26 a5.0 c/20 C=357
N17	4 N27 a5.0 c/17 C=436
N17	4 N28 a5.0 c/17 C=442
N17	4 N16 a5.0 c/17 C=70
N29	3 N30 a5.0 c/20 C=282
N29	3 N31 a5.0 c/20 C=359
N32	6 N33 a5.0 c/20 C=427
N32	6 N34 a5.0 c/20 C=457
N21	3 N35 a5.0 c/20 C=71
N36	5 N37 a5.0 c/20 C=79
N38	6 N39 a5.0 c/20 C=403
N38	6 N34 a5.0 c/20 C=457
N29	3 N40 a5.0 c/20 C=287
N22	6 N41 a5.0 c/20 C=262
N38	6 N42 a5.0 c/20 C=430
N38	6 N43 a5.0 c/20 C=455
N29	3 N44 a5.0 c/20 C=289
N22	6 N45 a5.0 c/20 C=265
N38	6 N46 a5.0 c/20 C=449
N29	3 N47 a5.0 c/20 C=359
N38	6 N48 a5.0 c/20 C=257
N38	6 N38 a5.0 c/20 C=110
N38	6 N49 a5.0 c/20 C=448
N29	3 N50 a5.0 c/20 C=297
N38	6 N51 a5.0 c/20 C=302
N38	6 N52 a5.0 c/20 C=436
N29	3 N53 a5.0 c/20 C=332
N38	6 N54 a5.0 c/20 C=322
N29	3 N55 a5.0 c/20 C=608
N29	3 N56 a5.0 c/20 C=253
N38	6 N57 a5.0 c/20 C=173
N38	6 N58 a5.0 c/20 C=255
N38	6 N45 a5.0 c/20 C=265
N38	6 N59 a5.0 c/20 C=171
N32	6 N60 a5.0 c/20 C=59
N32	6 N61 a5.0 c/20 C=195
N38	6 N62 a5.0 c/20 C=192
N38	6 N63 a5.0 c/20 C=205
N38	6 N64 a5.0 c/20 C=199
N38	6 N65 a5.0 c/20 C=124
N38	6 N45 a5.0 c/20 C=265
N32	6 N63 a5.0 c/20 C=205
N38	6 N40 a5.0 c/20 C=267
N32	6 N63 a5.0 c/20 C=205
N38	6 N45 a5.0 c/20 C=265
N32	6 N63 a5.0 c/20 C=205
N29	3 N66 a5.0 c/20 C=261
N32	6 N67 a5.0 c/20 C=383
N36	5 N37 a5.0 c/20 C=79
N36	5 N35 a5.0 c/20 C=71
N36	5 N35 a5.0 c/20 C=71
N21	3 N35 a5.0 c/20 C=71

RELAÇÃO DO AÇO

Negativos

ACO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	5.0	42	72	3024
	2	5.0	40	46	1840
	3	5.0	27	42	1134
	4	5.0	5	89	445
	5	5.0	6	81	486
	6	5.0	4	91	364
	7	5.0	8	63	494
	8	5.0	9	50	450
	9	5.0	9	38	351
	10	5.0	6	68	408
	11	5.0	4	37	148
	12	5.0	12	114	1368
	13	5.0	6	78	468
	14	5.0	6	83	498
	15	5.0	5	106	530
	16	5.0	9	70	630
	17	5.0	142	70	9940
	18	5.0	4	886	3544
	19	5.0	7	119	833
	20	5.0	6	104	624
CA60	21	5.0	89	63	5597
	22	5.0	3	881	2643
	23	5.0	14	120	1680
	24	5.0	6	279	1674
	25	5.0	18	122	2196
	26	5.0	6	357	2142
	27	5.0	4	438	1744
	28	5.0	4	442	1768
	29	5.0	164	60	9840
	30	5.0	3	282	846
	31	5.0	3	359	1077
	32	5.0	117	117	13444
	33	5.0	6	427	2562
	34	5.0	12	457	5484
	35	5.0	16	71	1136
	36	5.0	20	104	2080
	37	5.0	10	79	790
	38	5.0	320	110	35190
	39	5.0	6	403	2418
	40	5.0	6	287	1722
	41	5.0	8	282	2256
	42	5.0	6	430	2580
	43	5.0	6	455	2730
	44	5.0	3	259	777
	45	5.0	24	263	6312
	46	5.0	6	449	2694
	47	5.0	3	359	1077
	48	5.0	6	257	1542
	49	5.0	6	449	2694
	50	5.0	3	267	801
	51	5.0	6	287	1722
	52	5.0	6	436	2616
	53	5.0	3	332	996
	54	5.0	6	322	1932
	55	5.0	3	808	1824
	56	5.0	3	253	759
	57	5.0	6	173	1038
	58	5.0	6	255	1530
	59	5.0	6	171	1026
	60	5.0	6	89	534
	61	5.0	6	195	1170
	62	5.0	6	192	1152
	63	5.0	24	205	4920
	64	5.0	6	199	1194
	65	5.0	6	124	744
	66	5.0	3	261	783
	67	5.0	6	353	2118
	68	5.0	6	168	1008
	69	5.0	3	92	276
	70	5.0	3	88	264
	71	5.0	1	95	95
	72	5.0	12	81	972
	73	5.0	4	135	544
	74	5.0	3	88	264
	75	5.0	2	88	176
	76	5.0	6	115	690
	77	5.0	11	114	1254
	78	5.0	4	146	584
	79	5.0	6	146	736
	80	5.0	7	139	973
	81	5.0	3	107	321
	82	5.0	4	112	448
	83	5.0	4	144	576
	84	5.0	3	100	300
	85	5.0	1	89	89
	86	5.0	1	91	91
	87	5.0	1	142	142
	88	10.0	4	130	520
	89	10.0	2	139	278
	90	12.5	3	211	633

RESUMO DO AÇO

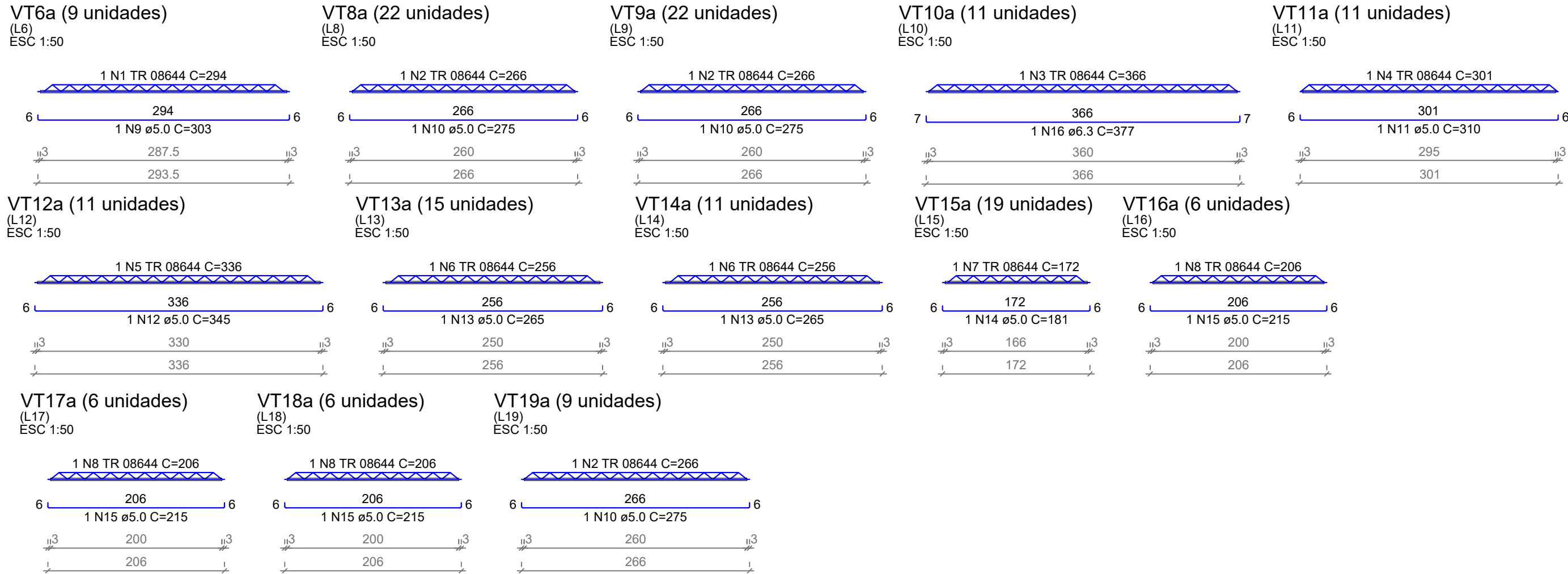
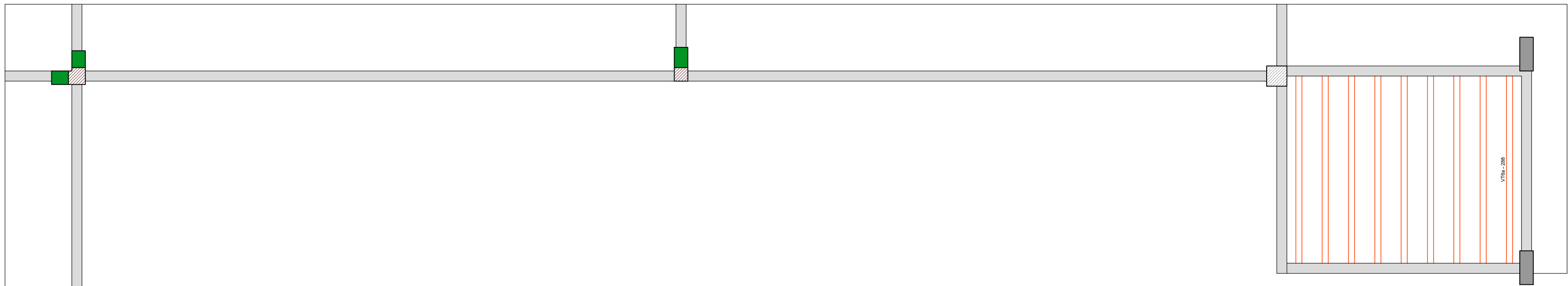
ACO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	35.3	9.6
	8.0	68.1	29.6
	10.0	8.3	5.7
	12.5	6.3	6.7
CA60	5.0	1745.5	285.9

PESO TOTAL (kg)	
CA50	51.4
CA60	295.9

Volume de concreto (C-30) = 0.00 m³
Área de forma = 0.00 m²

Nº	ALTERAÇÃO/REVISÕES	REVISADO POR	DATA
AUTOR DO PROJETO: Engº. Fredrico Damasceno Pinheiro CREA 270082778-3			
ENDEREÇO: Rua Dom José Thomaz, 194 - Bairro São José - Aracaju/SE dipop@ifs.edu.br TEL: (79)3711-3139			

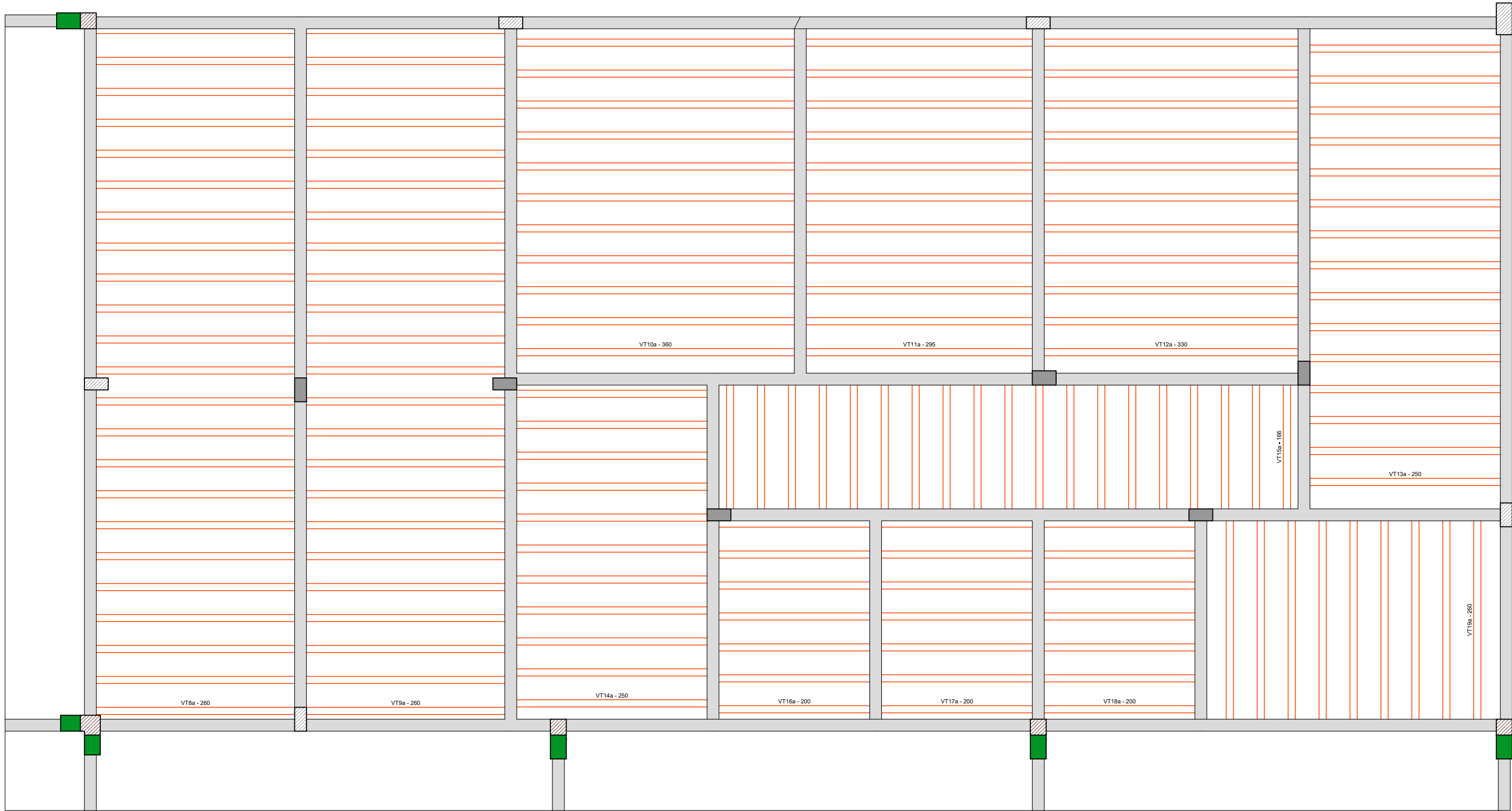
PROJETO ESTRUTURAL RESTAURANTE - CAMPUS ARACAJU/SE	
CLIENTE: INSTITUTO FEDERAL DE SERGIPE - CAMPUS ARACAJU	ESCALA: 1:100
ENDEREÇO: AV. ENGENHEIRO GENTIL TAVARES, 1166, GETÚLIO VARGAS, ARACAJU - SE	DATA: JULHO/2026
PLANTA: RESTAURANTE ARMAÇÃO NEGATIVA DAS LAJES PAV. LAJ IMP.	PRANCHA: 14/17
CAMPO: ARACAJU DATA: 14/07/2026	



RELAÇÃO DO AÇO					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	TR 08644	9	294	2646
	2	TR 08644	53	266	14098
	3	TR 08644	11	366	4026
	4	TR 08644	11	301	3311
	5	TR 08644	11	336	3696
	6	TR 08644	26	256	6656
	7	TR 08644	19	172	3268
	8	TR 08644	18	206	3708
	9	5.0	8	303	2727
	10	5.0	53	275	14575
	11	5.0	11	310	3410
	12	5.0	11	345	3795
	13	5.0	26	265	6890
	14	5.0	19	181	3439
	15	5.0	18	215	3870
	16	8.3	11	377	4147

RESUMO DO AÇO			
AÇO	DIAM (mm)	C. TOTAL (m)	PESO + 10% (kg)
CA50	6.3	41.5	11.2
CA60	5.0	387.1	65.6
TR 08644		414.1	334.8
PESO TOTAL (kg)			
CA50	11.2		
CA60	400.4		

Volume de concreto (C-30) = 0.00 m³
Área de forma = 0.00 m²



Planta de vigotas pré-moldadas

Nº	ALTERAÇÃO/REVISÕES	REVISADO POR	DATA

AUTOR DO PROJETO:
Engº. Fredrico Damasceno Pinheiro
CREA 270082778-3

ENDEREÇO:
Rua Dom José Thomaz, 194 - Bairro São José - Aracaju/SE
dipop@ifs.edu.br
TEL: (79)3711-3139

PROJETO ESTRUTURAL
RESTAURANTE - CAMPUS ARACAJU/SE

CLIENTE:
INSTITUTO FEDERAL DE SERGIPE - CAMPUS ARACAJU

ENDEREÇO:
AV. ENGENHEIRO GENTIL TAVARES, 1166, GETÚLIO VARGAS, ARACAJU - SE

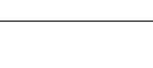
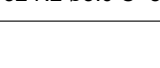
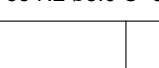
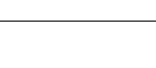
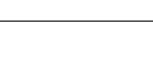
PLANTA:
RESTAURANTE
FORMA E VIGOTAS PAV. LAJ IMP.

ESCALA:
1:100

DATA:
JULHO/2026

PRANCHA:
15/17

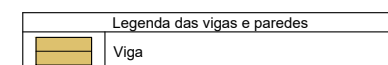
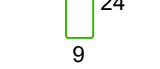
CADRUJO	OBRA	ESPECIALIDADE	FASE	SERIAL	QUANTITATIVO	REVISÃO
A	J	J	R	E	S	T



RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	155.2	67.4
CA60	5.0	174.4	29.6
PESO TOTAL (kg)			
CA50	67.4		
CA60	29.6		

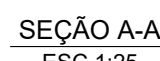
Volume de concreto (C-30) = 1.61 m³
 Área de forma = 26.56 m²



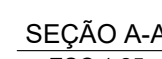
escala 1:75

PROJETO ESTRUTURAL RESTAURANTE - CAMPUS ARACAJU/SE																																				
CLIENTE:	INSTITUTO FEDERAL DE SERGIPE - CAMPUS ARACAJU																																			
ENDEREÇO: AV. ENGENHEIRO GENTIL TAVARES, 1166, GETÚLIO VARGAS, ARACAJU - SE	ESCALA: 1:100 DATA: JULHO/2026 PRANCHA:																																			
RESTAURANTE FORMA E VIGAS CINTA DO LAJE IMPER.																																				
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A	J	R	E	S	E	S																														
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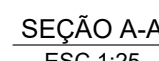
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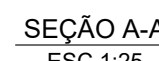
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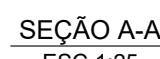
ESC 1:50



ESC 1:50



ESC 1:50



RELAÇÃO DO AÇO					
V1 V4		V2 V5		V3	
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	8,0	32	107	3604
	2	8,0	236	37	23086
CA50	3	8,0	3	928	2784
	4	8,0	3	974	2922
	5	8,0	3	1018	3054
	6	8,0	1	310	310
	7	8,0	2	964	1928
	8	8,0	5	975	4875
	9	8,0	2	688	1378
	10	8,0	2	599	1198
	11	8,0	2	1108	2216
	12	8,0	2	711	1422
13	8,0	2	855	1710	
14	8,0	2	491	982	
15	8,0	2	1185	2370	
16	8,0	4	199	796	
17	8,0	4	254	1016	
18	8,0	4	1195	2390	

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	281.4	122.1
CA60	5.0	286.5	48.6

Volume de concreto (C-30) = 3.65 m³
Área de forma = 55.54 m²

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	20x40	0	605
V2	15x40	0	605
V3	15x40	0	605
V4	15x40	0	605
V5	15x40	0	605

Características dos materiais			
fck (kgf/cm²)	Ecs (kgf/cm²)	fct (kgf/cm²)	Abatimento (cm)
300	268384	29	5.00

Dimensão máxima do agregado = 19 mm

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	L 25x25x20x20	0	605
P2	20x20	0	605
P3	30x30	0	605
P6	15x30	0	605
P7	20x40	0	605
P8	20x20	0	605
P9	20x20	0	605
P10	15x30	0	605
P11	15x30	0	605
P12	20x40	0	605

Legenda dos pilares	
	Pilar que morre

Legenda das vigas e paredes	
	Viga

Nº	ALTERAÇÃO/REVISÕES	REVISADO POR	DATA



AUTOR DO PROJETO:
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CREA 270082778-3



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PROJETO ESTRUTURAL
RESTAURANTE - CAMPUS ARACAJU/SE

CLIENTE: INSTITUTO FEDERAL DE SERGIPE - CAMPUS ARACAJU

AV. ENGENHEIRO GENTIL TAVARES, 1166, GETÚLIO VARGAS, ARACAJU - SE

PLANTA: RESTAURANTE
FORMA E VIGAS CINTA DO SALÃO

CAMPUS:	CÉREA:	ESPECIALIDADE	FASE	SERIAL	QUANTITATIVO	REVISÃO
A J U	R E S	E S T	P E	0 1 7	0 1 7	R 0 C

ESCALA: 1:100

DATA:	III HQ/2026
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PRANCHA

17/17