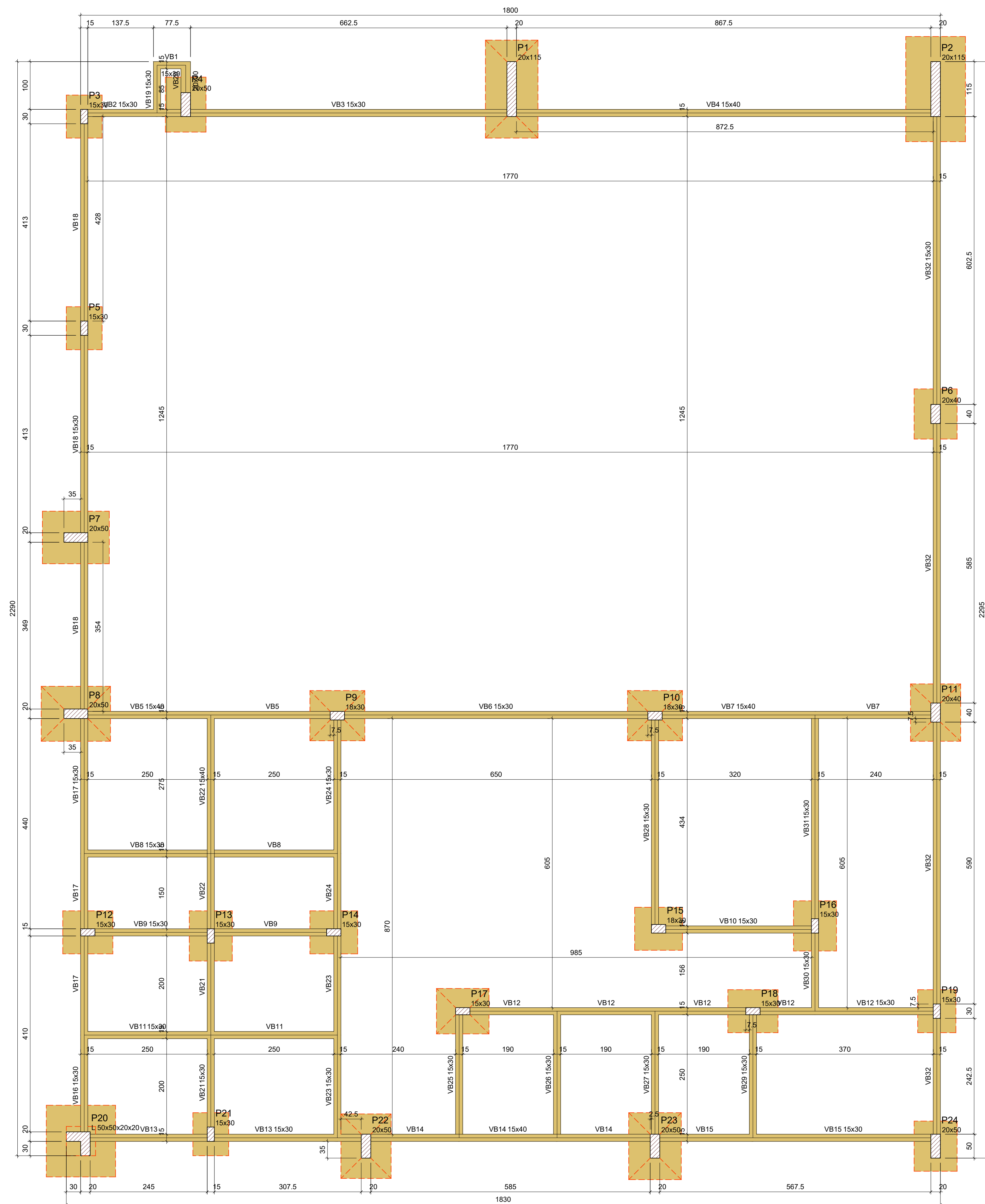




Forma do pavimento TÉRREO

escala 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
VB1	15x30	0	10
VB2	15x30	0	10
VB3	15x30	0	10
VB4	15x40	0	10
VB5	15x40	0	10
VB6	15x30	0	10
VB7	15x40	0	10
VB8	15x30	0	10
VB9	15x30	0	10
VB10	15x30	0	10
VB11	15x30	0	10
VB12	15x30	0	10
VB13	15x30	0	10
VB14	15x40	0	10
VB15	15x30	0	10
VB16	15x30	0	10
VB17	15x30	0	10
VB18	15x30	0	10
VB19	15x30	0	10
VB20	20x30	0	10
VB21	15x30	0	10
VB22	15x40	0	10
VB23	15x30	0	10
VB24	15x30	0	10
VB25	15x30	0	10
VB26	15x30	0	10
VB27	15x30	0	10
VB28	15x30	0	10
VB29	15x30	0	10
VB30	15x30	0	10
VB31	15x30	0	10
VB32	15x30	0	10

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	20x115	0	10
P2	20x115	0	10
P3	15x30	0	10
P4	20x50	0	10
P5	15x30	0	10
P6	20x40	0	10
P7	20x50	0	10
P8	20x50	0	10
P9	18x30	0	10
P10	18x30	0	10
P11	20x40	0	10
P12	15x30	0	10
P13	15x30	0	10
P14	15x30	0	10
P15	18x30	0	10
P16	15x30	0	10
P17	15x30	0	10
P18	15x30	0	10
P19	15x30	0	10
P20	L 50x50x20x20	0	10
P21	15x30	0	10
P22	20x50	0	10
P23	20x50	0	10
P24	20x50	0	10

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

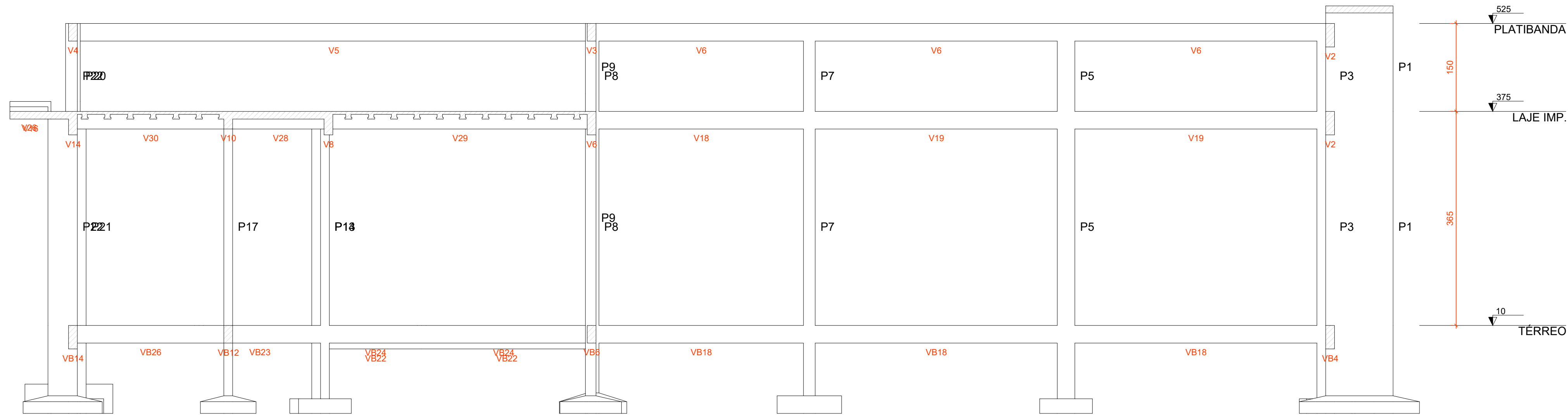
Dimensão máxima do agregado = 19 mm

Legenda dos pilares		Legenda das vigas e paredes	
	Pilar que passa		Viga

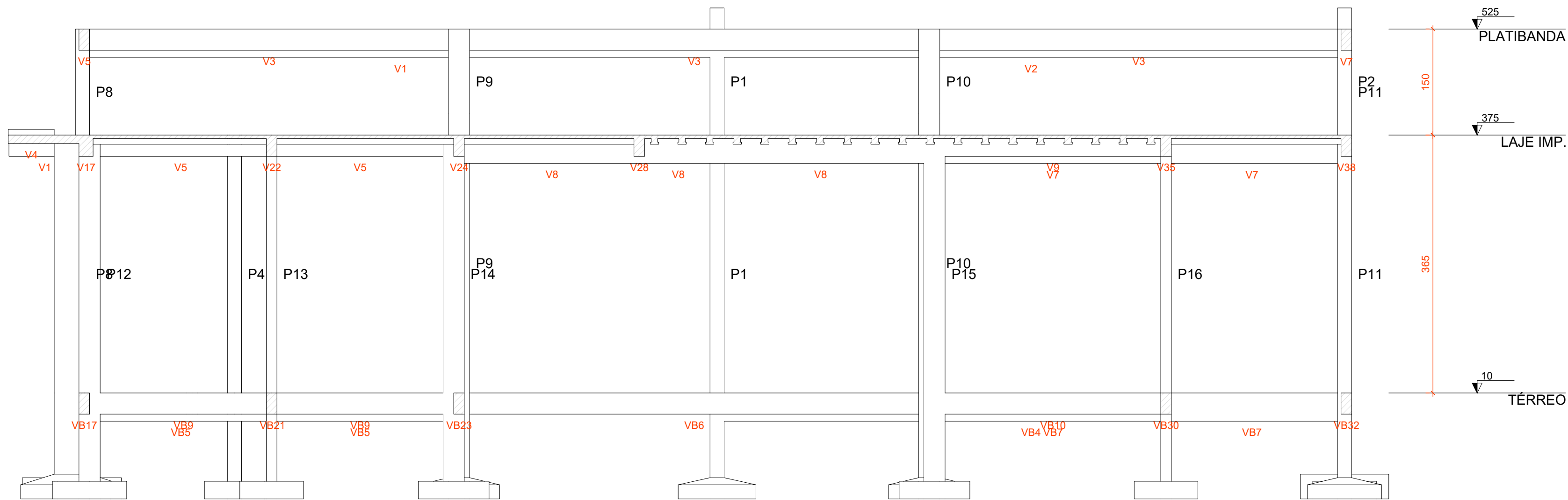
Nº	ALTERAÇÃO/REVISÕES	REVISADO POR	DATA
		AUTOR DO PROJETO: Engº. Fredrico Damasceno Pinheiro CREA 270082778-3	
		ENDEREÇO: Rua Dom José Thomaz, 194 - Bairro São José - Aracaju/SE dipop@ifs.edu.br	
		TEL: (79)3711-3139	

PROJETO ESTRUTURAL
RESTAURANTE CAMPUS ITABAIANA - SE

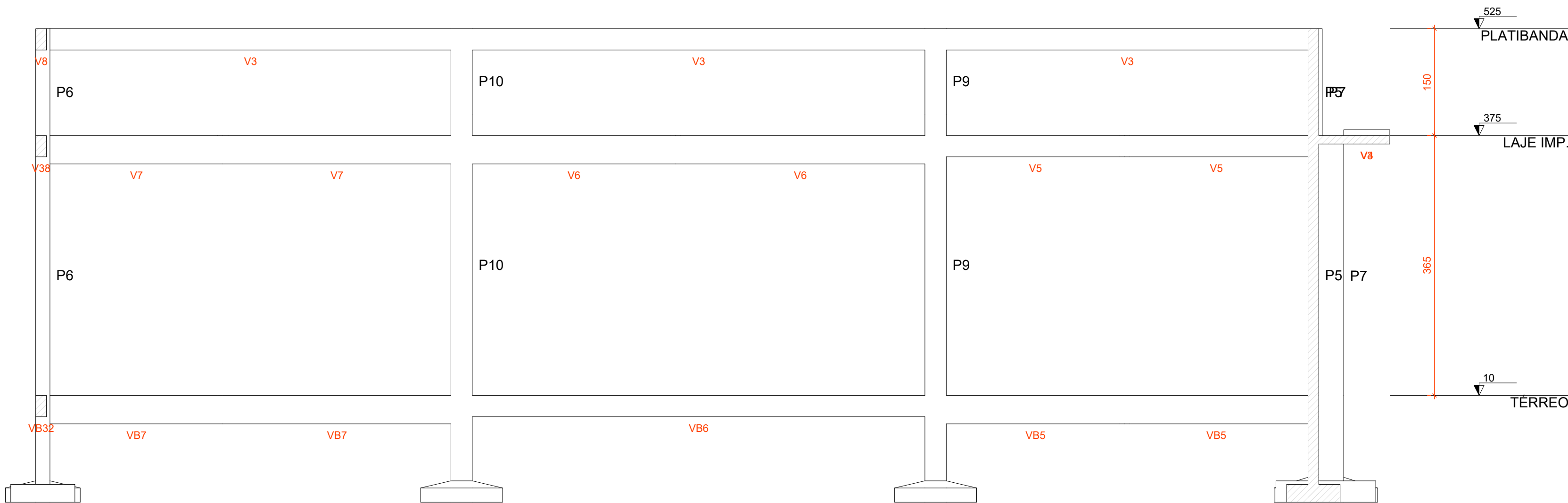
CLIENTE:		INSTITUTO FEDERAL DE SERGIPE - CAMPUS ITABAIANA - SE	
ENDEREÇO:		AV. PADRE AIRTON GONÇALVES LIMA 1140 - SÃO CRISTÓVÃO - ITABAIANA /SE	
PLANTA:		RESTAURANTE FORMA DAS VIGAS BALDRAMES	
CAMPO:		OBRA:	
ESPECIALIDADE:		FASE:	
SERIAL:		QUANTITATIVO:	
REVISÃO:		02/17	



Corte A-A
escala 1:50



Corte B-B
escala 1:50



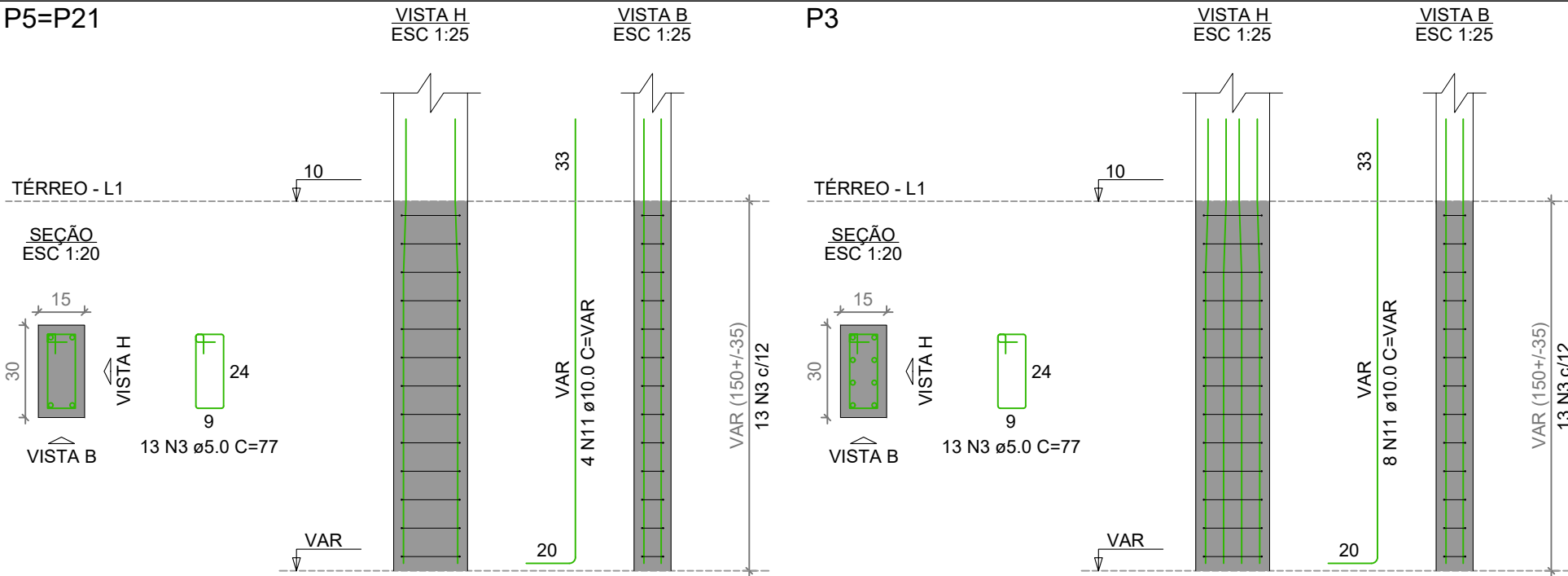
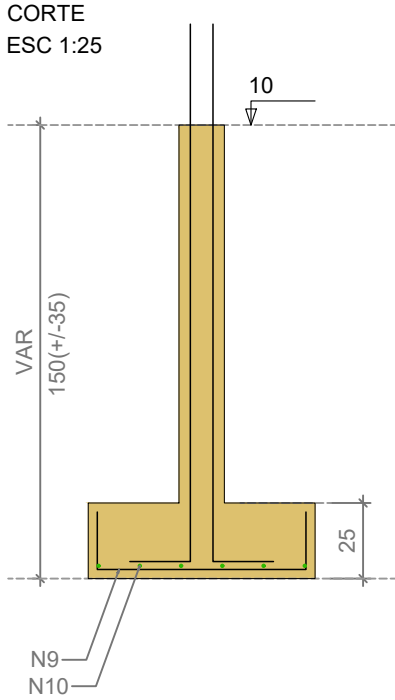
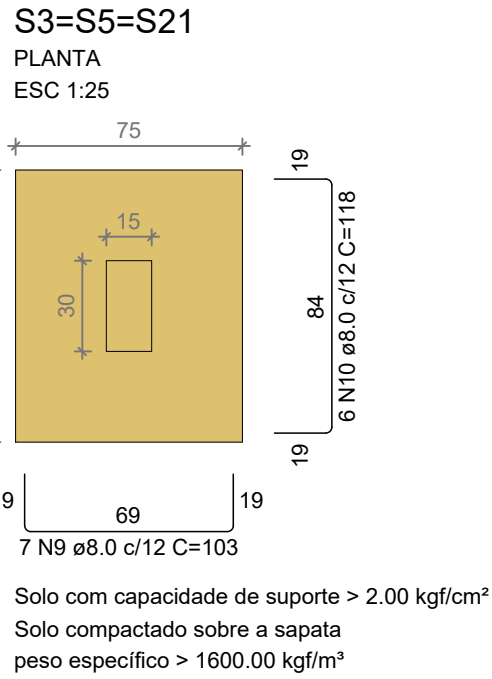
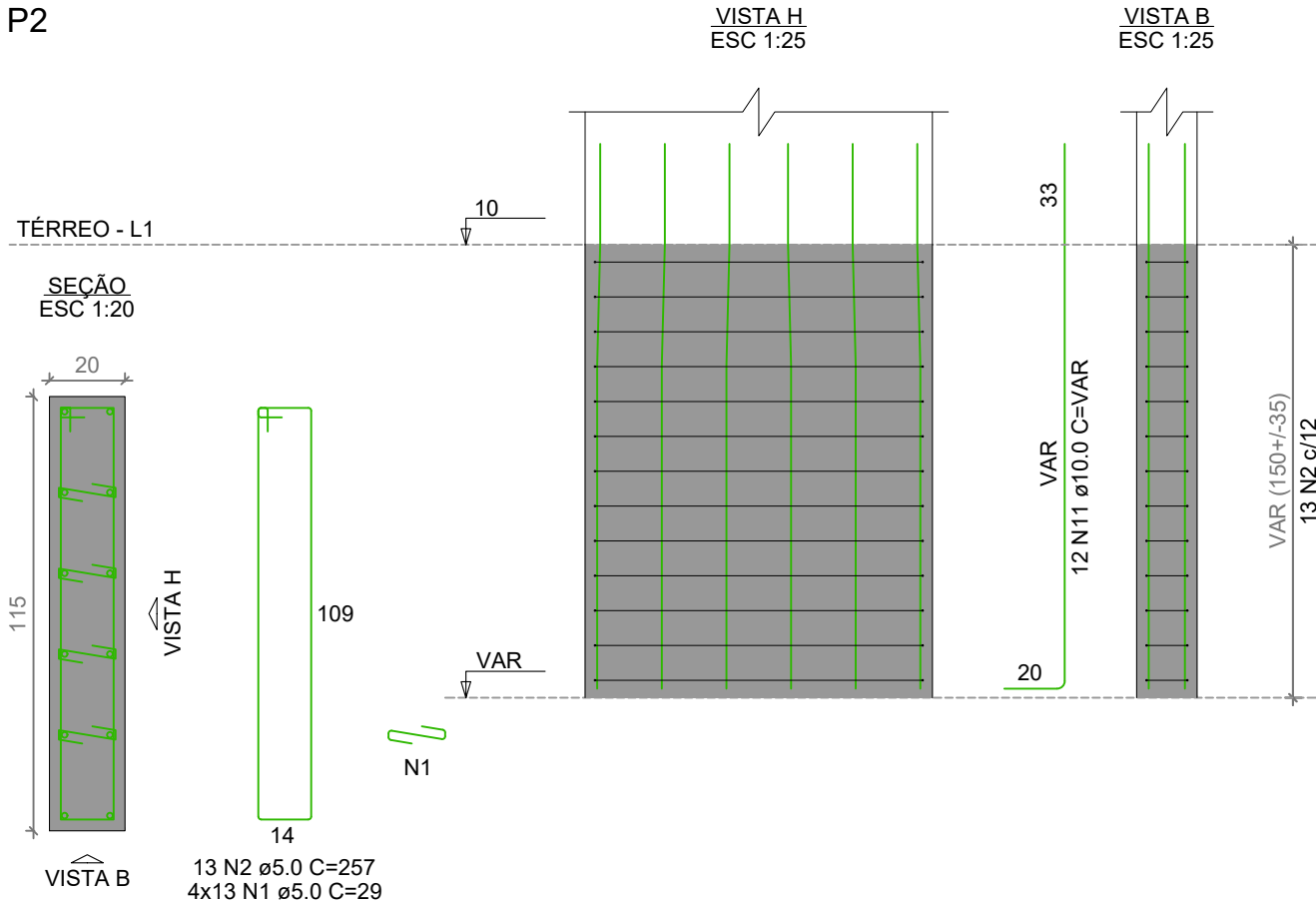
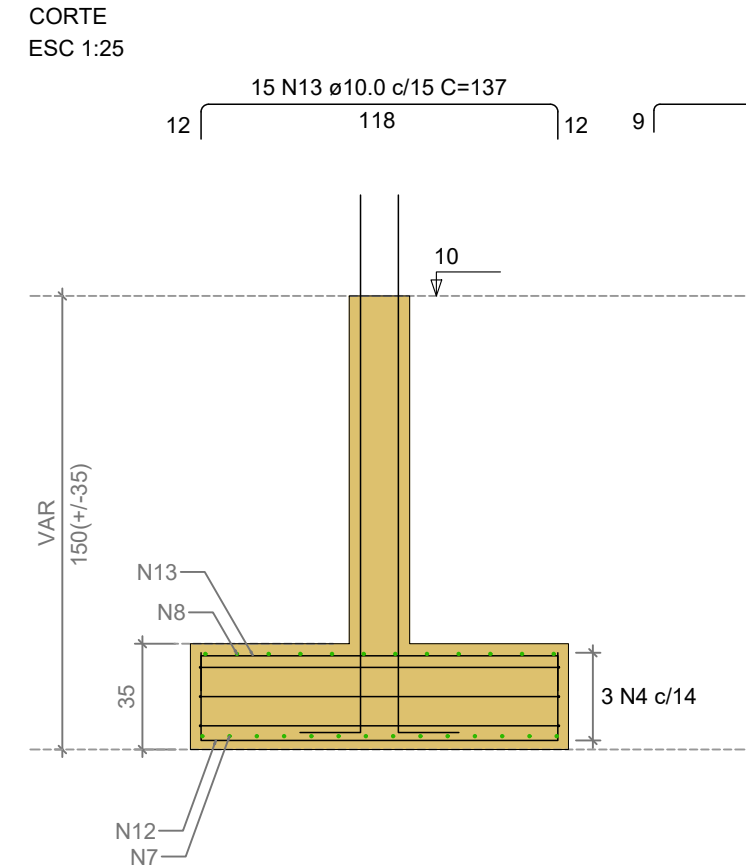
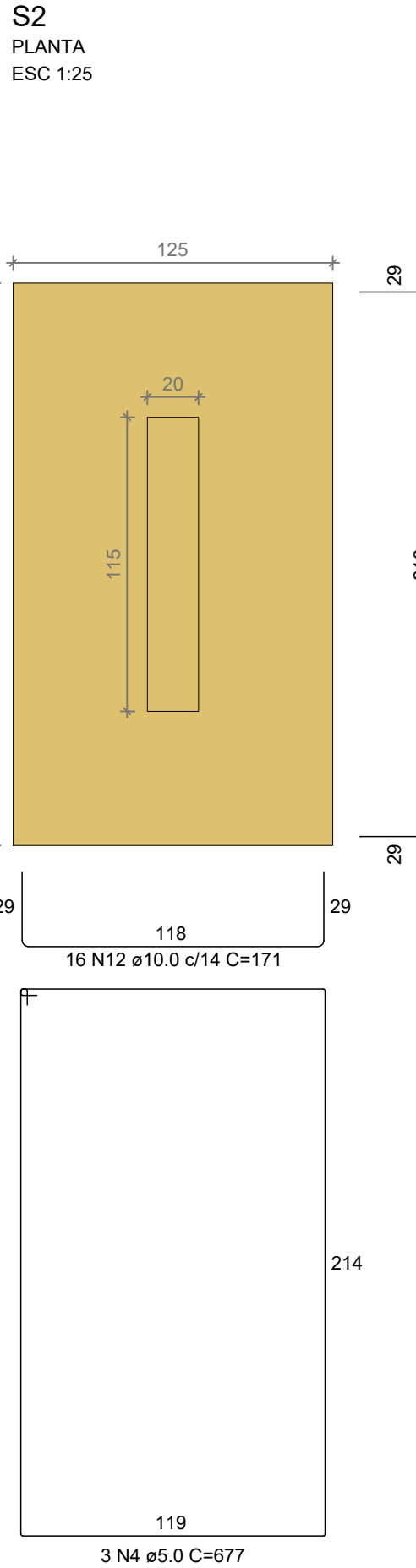
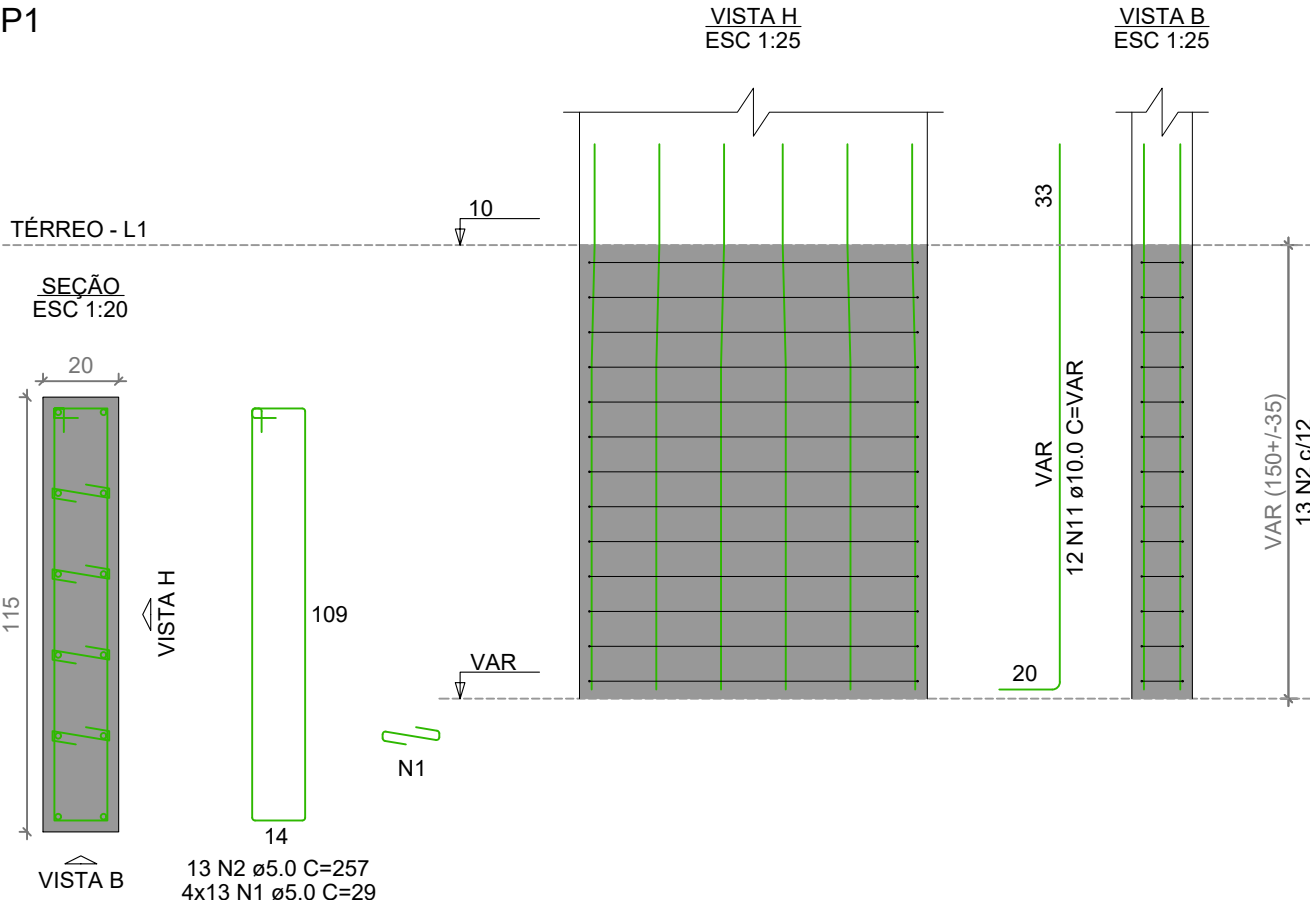
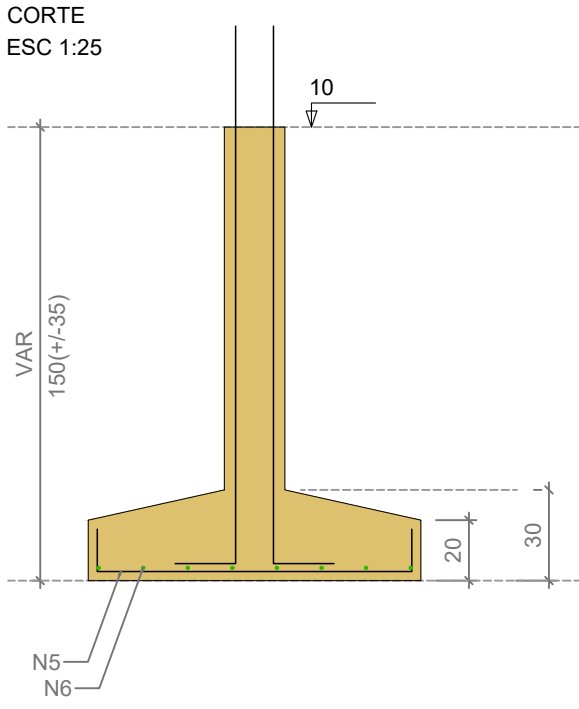
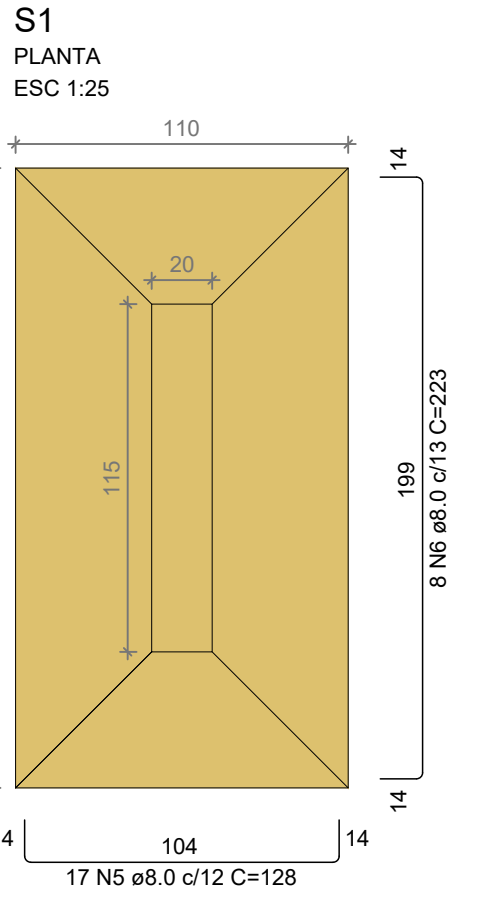
Corte C-C
escala 1:50

Nº	ALTERAÇÃO/REVISÕES	REVISADO POR	DATA

 INSTITUTO FEDERAL SERGIPE	AUTOR DO PROJETO: Engº. 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 ITABAIANA - SE

CLIENTE: INSTITUTO FEDERAL DE SERGIPE - CAMPUS ITABAIANA - SE		ESCALA: 1:100
ENDEREÇO: AV. PADRE AIRTON GONÇALVES LIMA 1140 - SÃO CRISTÓVÃO - ITABAIANA /SE		DATA: ABRIL/2026
PLANTA: RESTAURANTE CORTES A -A , B - B E C - C		PRANCHA: 03/17
CAMPO: OBRAS ESPECIALIDADE: FASE: SERIAL: QUANTITATIVO: ROTEIRO:		



RELAÇÃO DO AÇO					
P1	2xP5	3xS21	P2	S1	P3
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	5.0	104	29	3016
	2	5.0	26	257	6682
	3	5.0	39	77	3003
	4	5.0	3	677	2031
	5	8.0	17	128	2176
	6	8.0	8	223	1784
	7	8.0	14	267	3736
	8	8.0	12	227	2724
	9	8.0	21	103	2163
	10	8.0	18	119	2124
	11	10.0	40	VAR	VAR
	12	10.0	16	171	2736
	13	10.0	15	137	2055

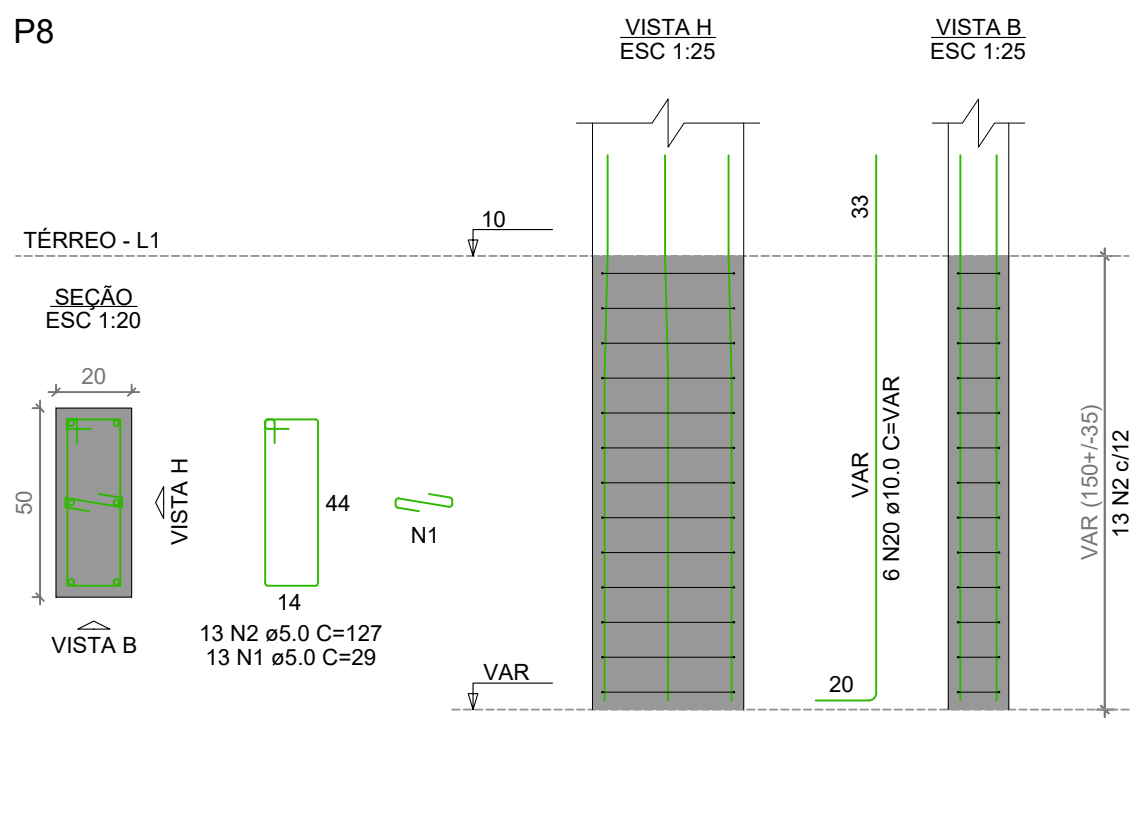
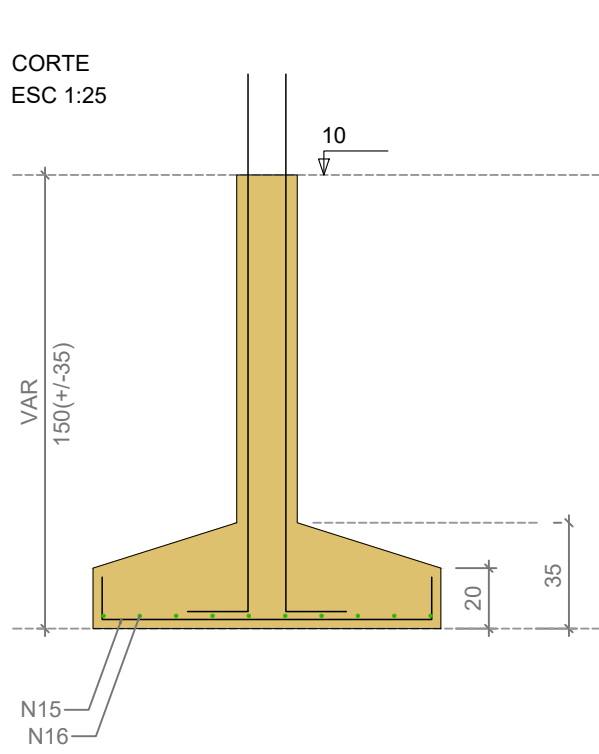
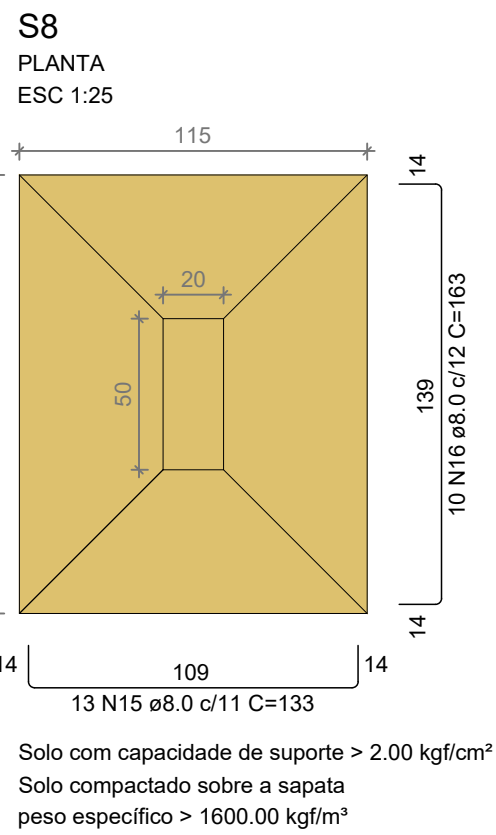
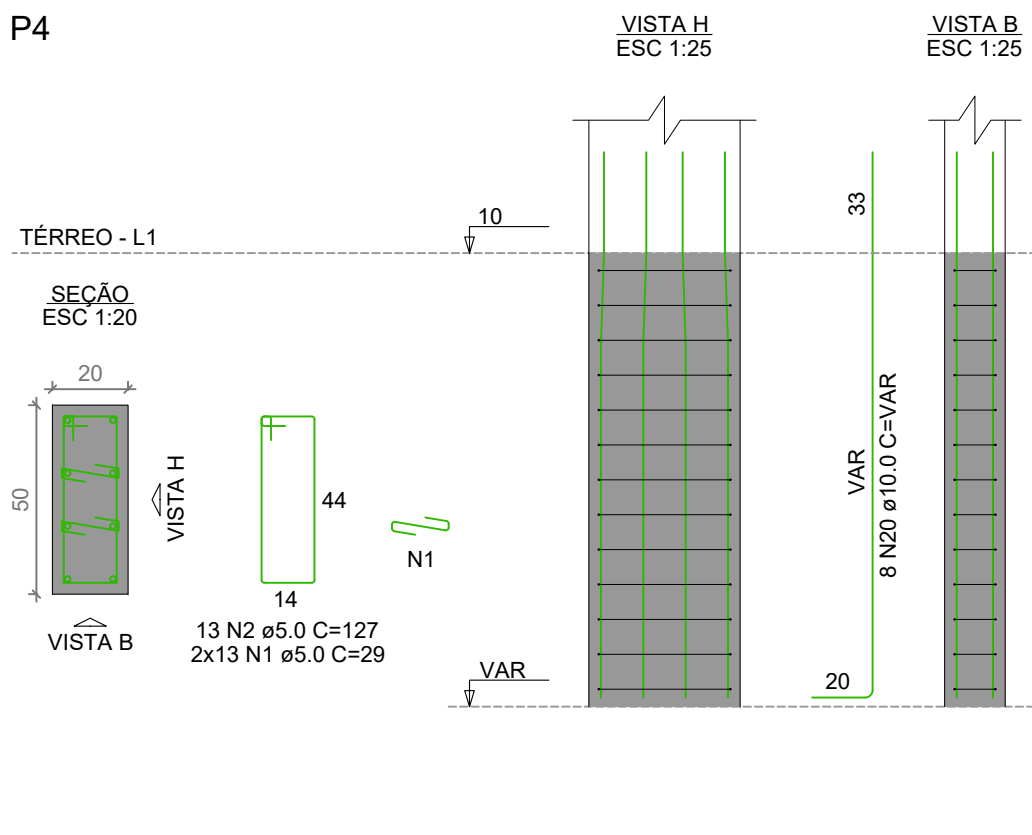
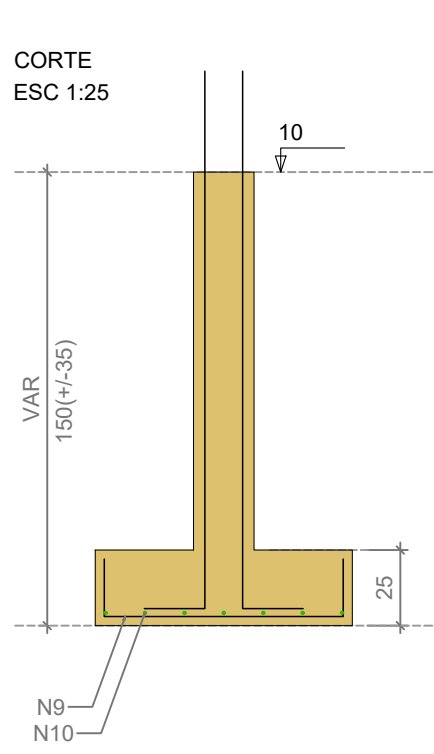
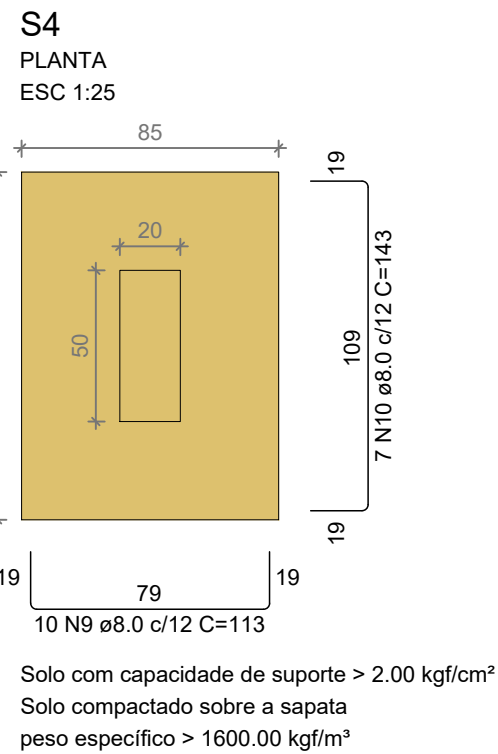
RESUMO DO AÇO			
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	147.1	63.8
CA60	10.0	127.1	86.2
CA60	5.0	147.3	25
PESO TOTAL (kg)			
CA50	150		
CA60	25		

Volume de concreto (C-30) = 2.74 m³
Área de forma = 15.87 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 ITABAIANA - SE

CLIENTE:	INSTITUTO FEDERAL DE SERGIPE - CAMPUS ITABAIANA - SE		
ENDEREÇO:	AV. PADRE AIRTON GONÇALVES LIMA 1140 - SÃO CRISTÓVÃO - ITABAIANA /SE	ESCALA:	1:100
PLANTA:	RESTAURANTE DETALHE ARMAÇÃO DAS SAPATAS 1 - 2	DATA:	ABRIL/2026
CHAVE:	OBRA	ESPECIALIDADE	FASE
001	RES	EST	PE
004	017	000	000

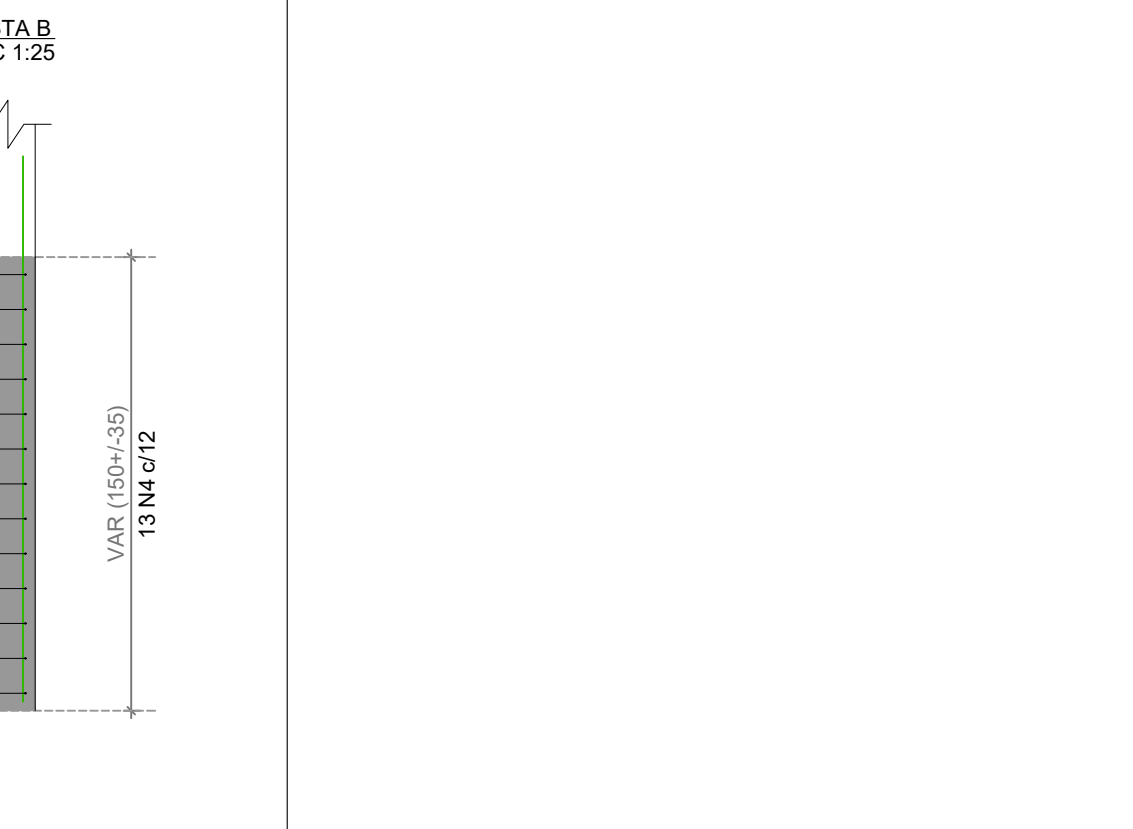
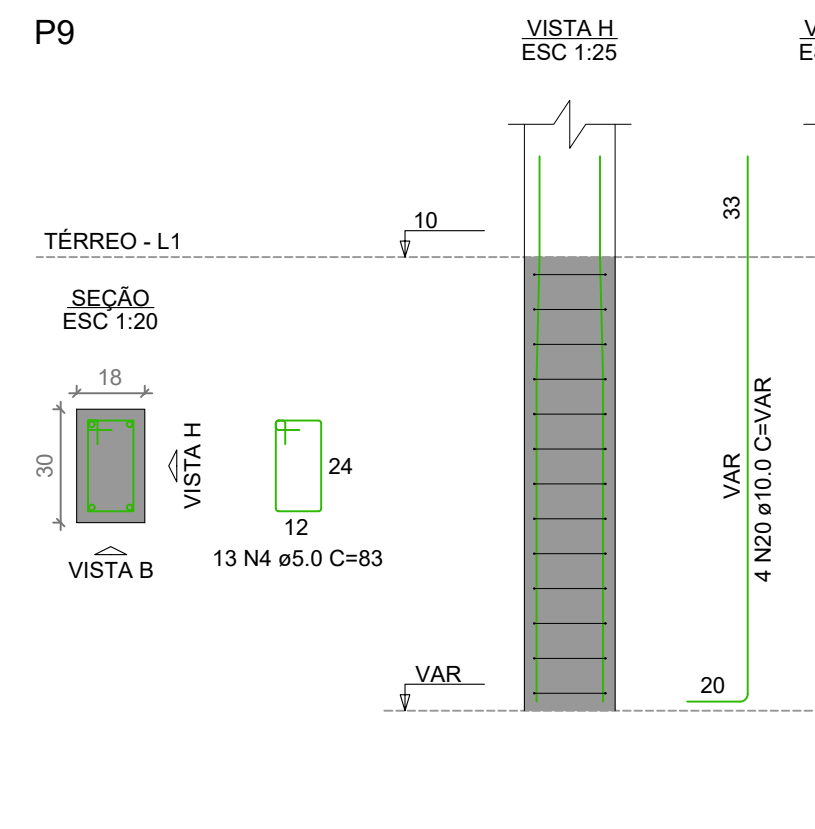
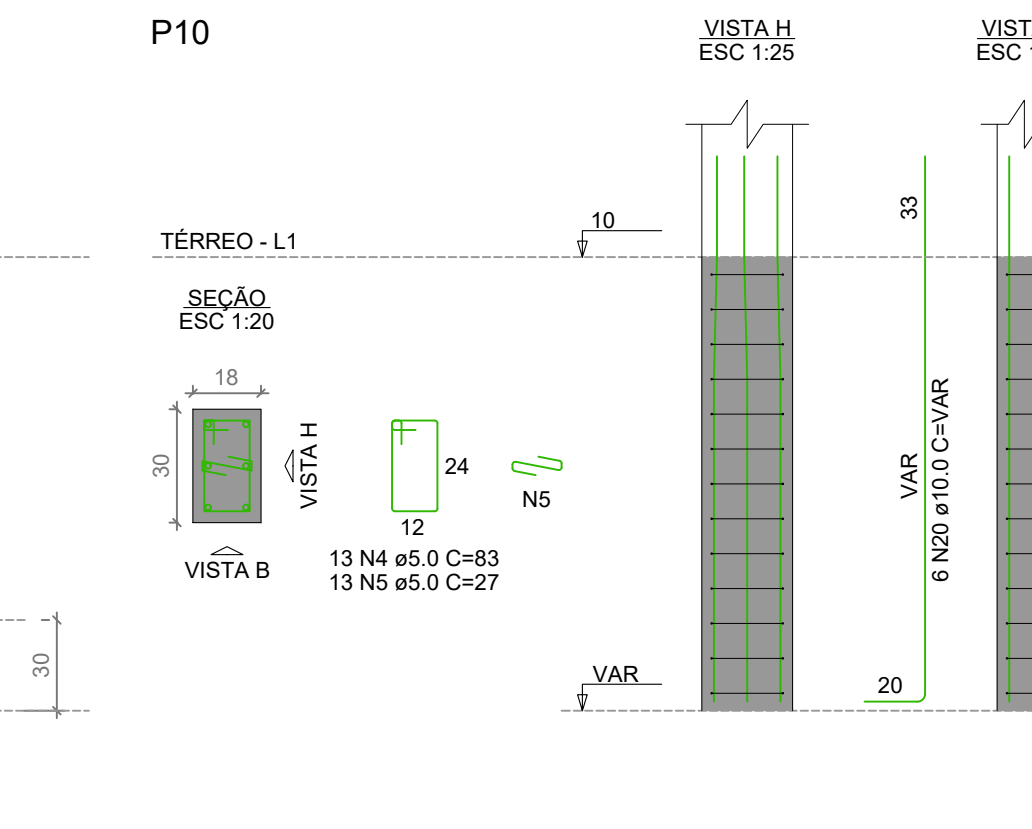
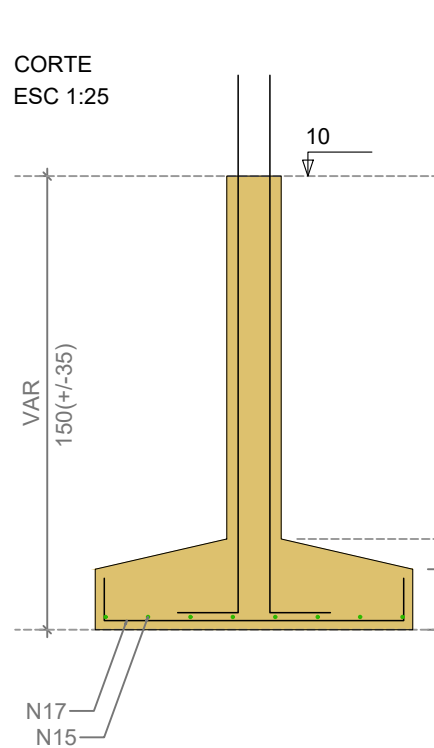
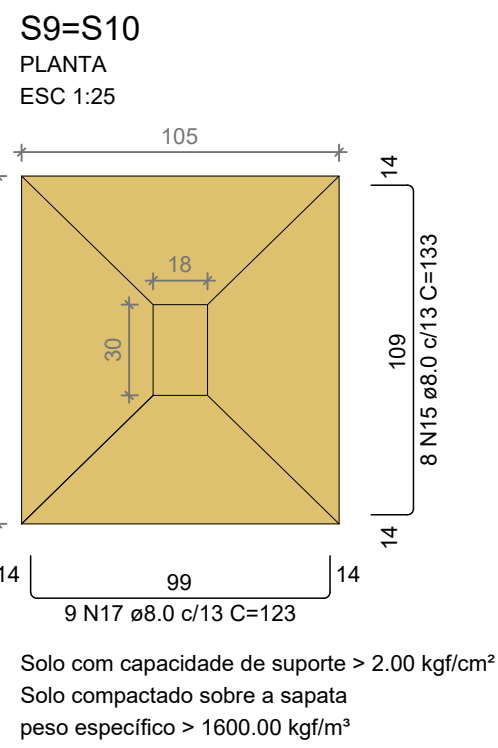
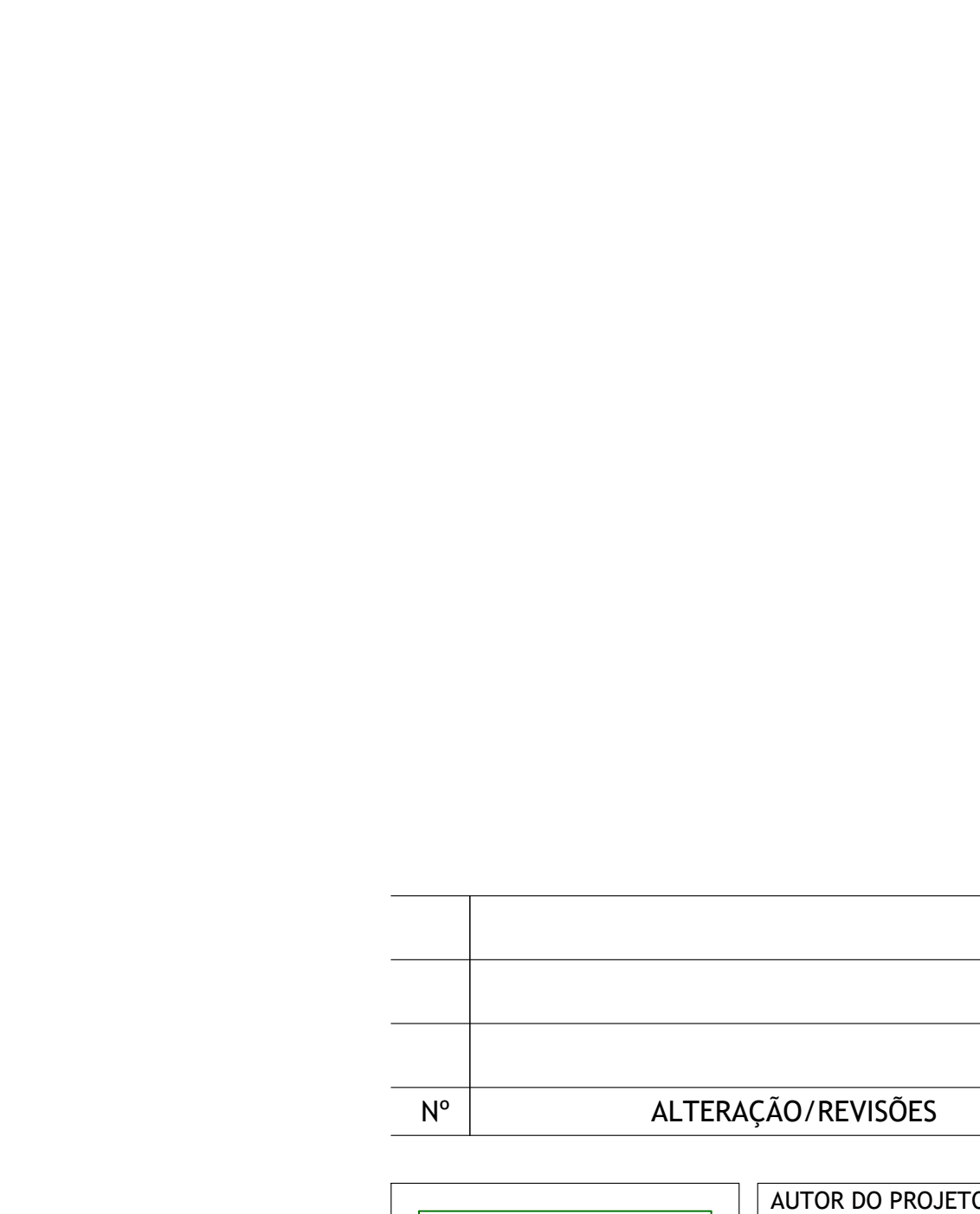
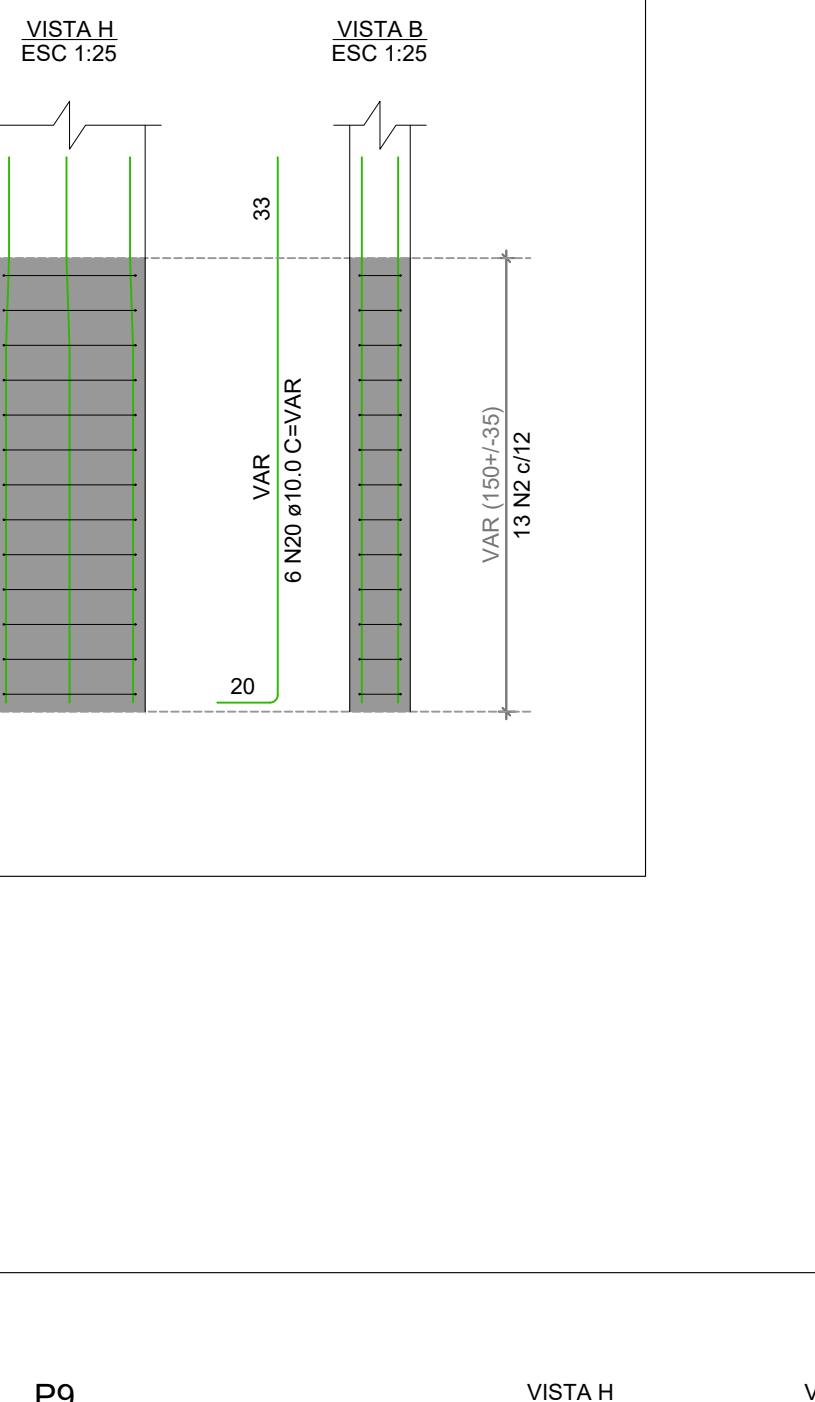
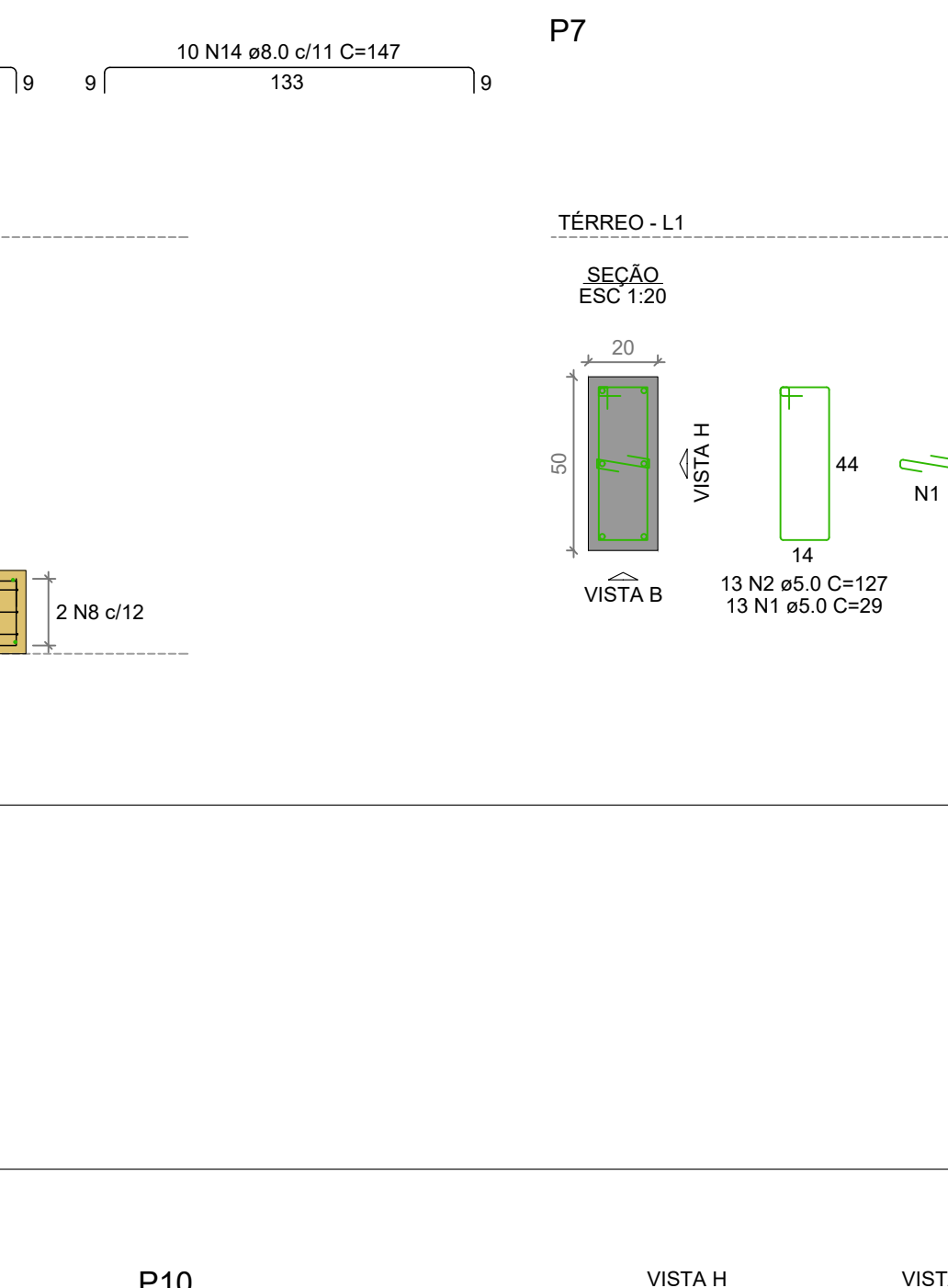
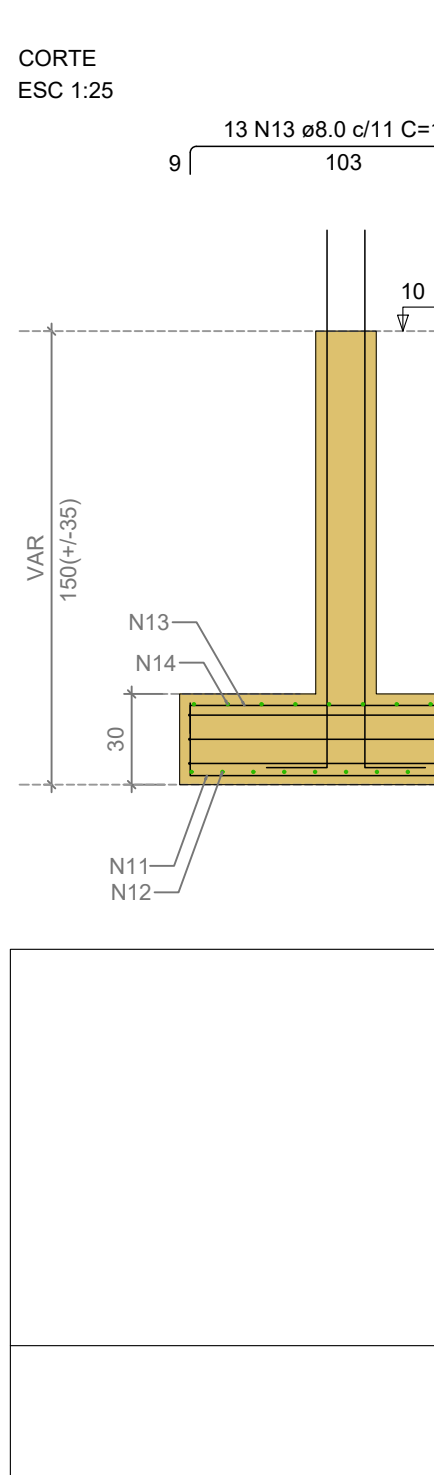
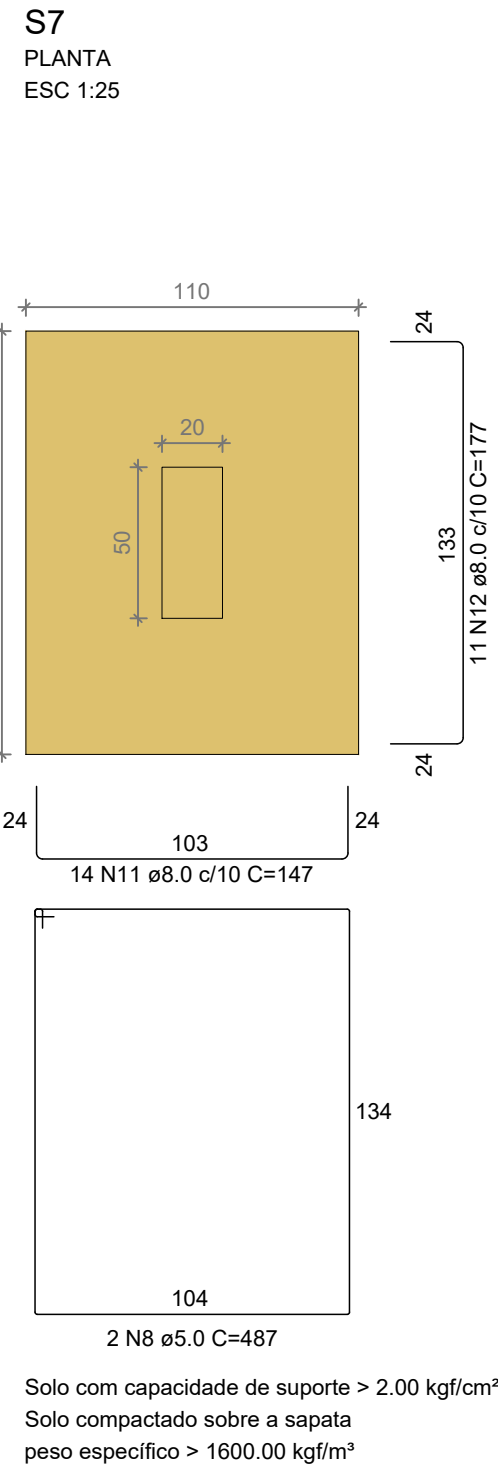
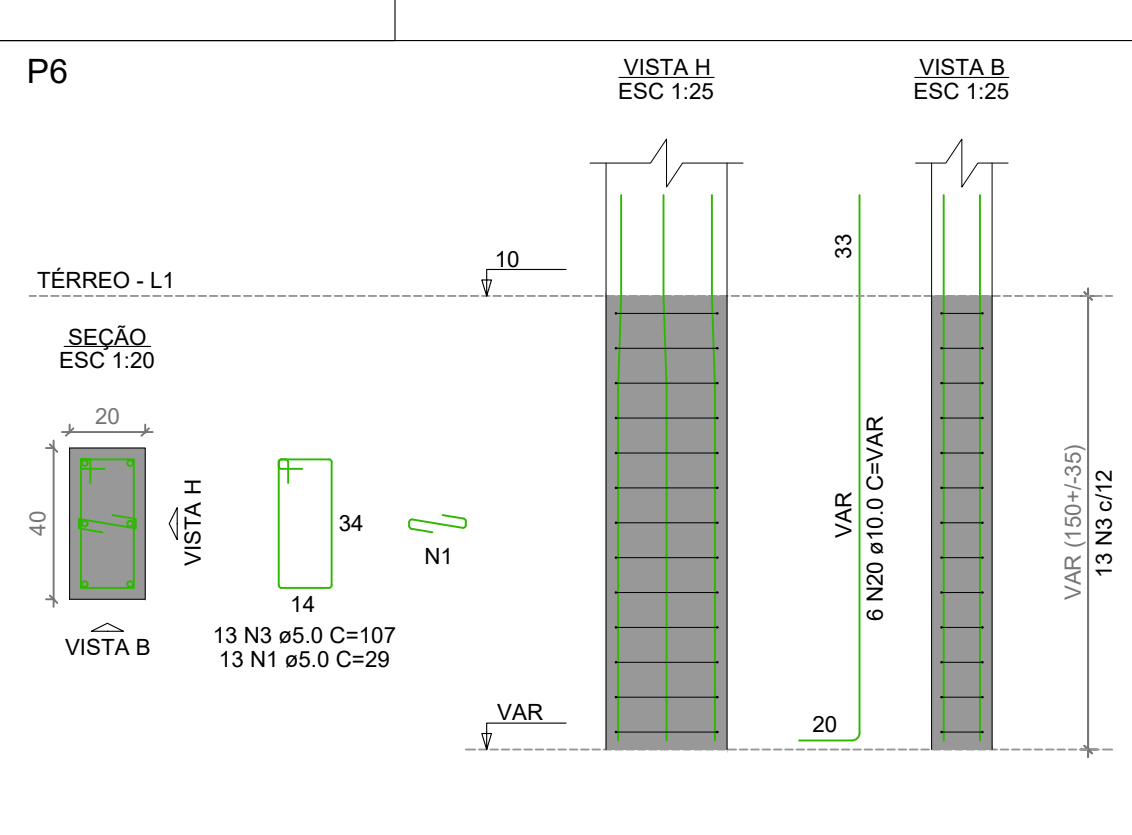
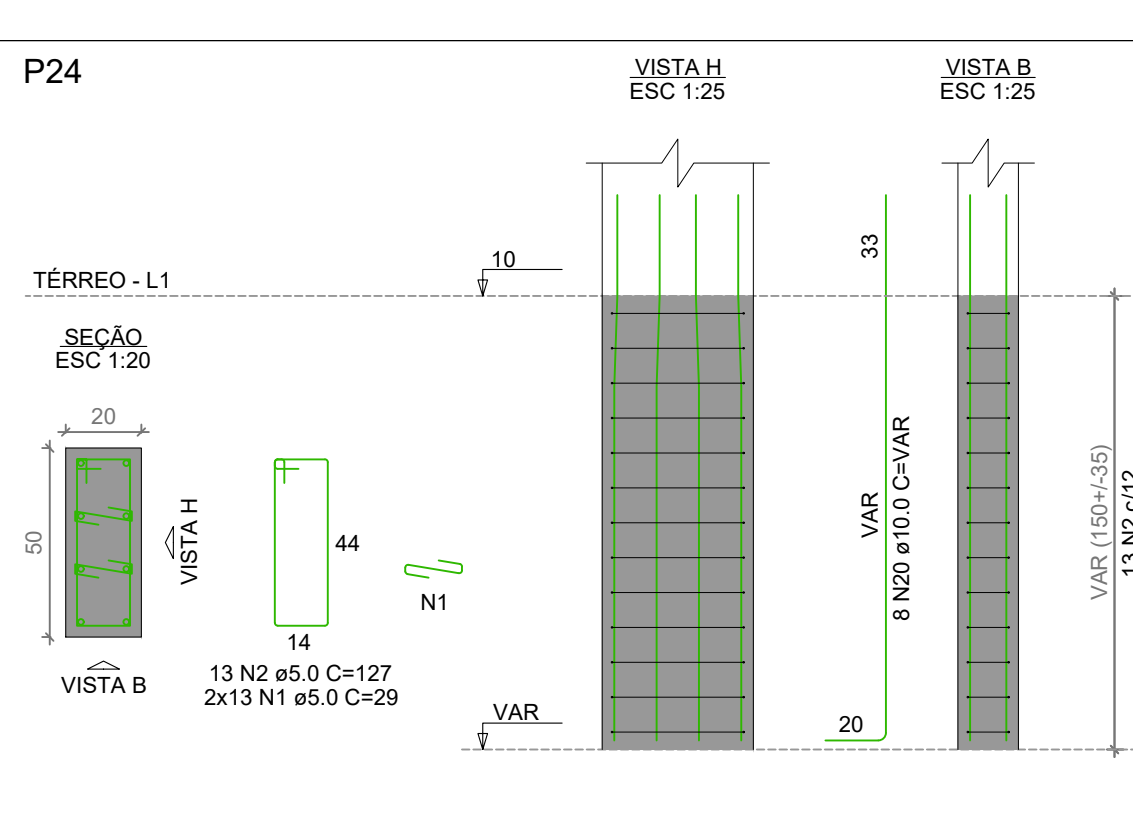
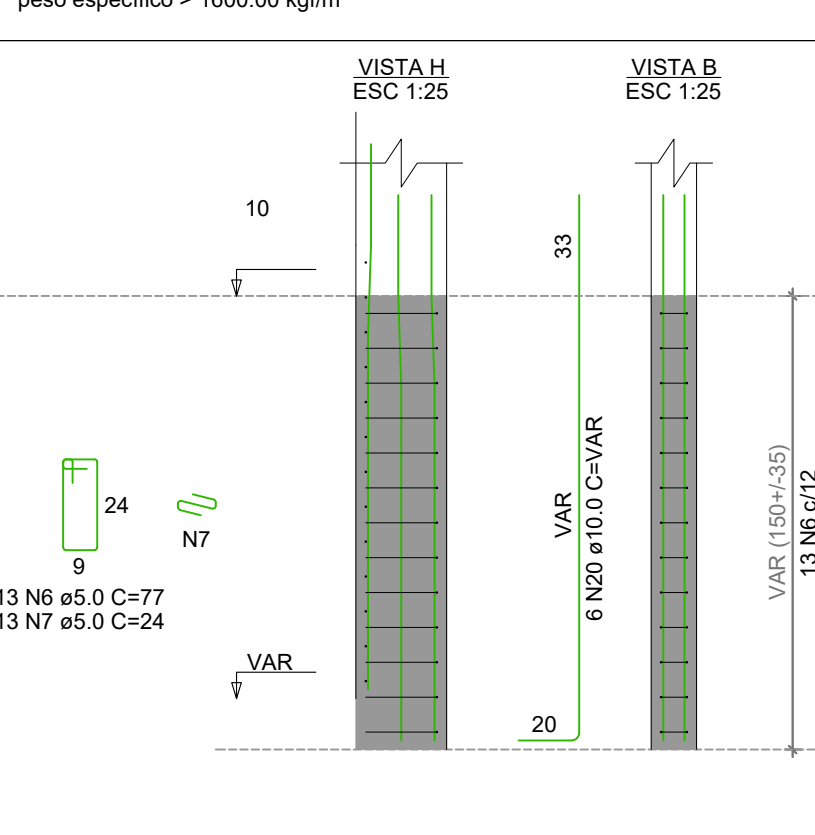
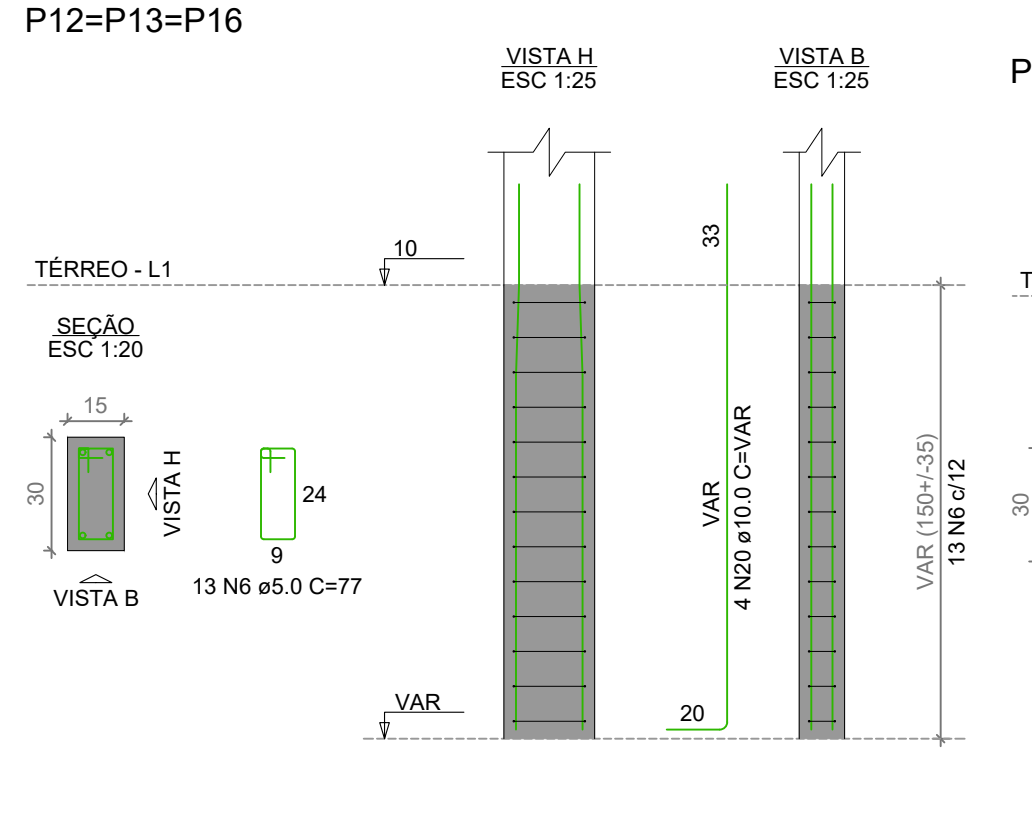
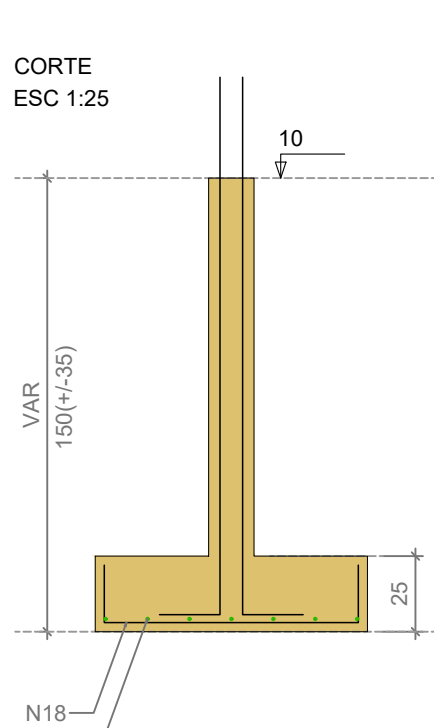
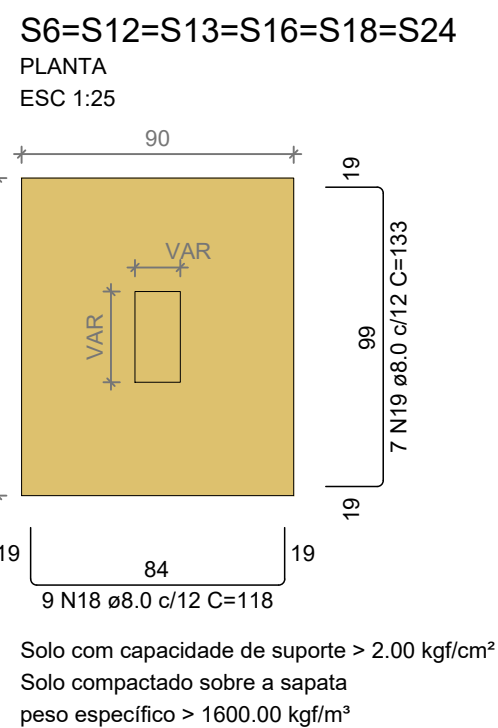


RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	5.0	91	25	2275
	2	5.0	52	127	6604
	3	5.0	13	107	1391
	4	5.0	26	83	2158
	5	5.0	13	27	351
	6	5.0	52	77	4004
	7	5.0	13	24	312
	8	5.0	2	487	974
	9	8.0	10	113	1130
	10	8.0	7	143	1001
CA60	11	8.0	14	147	2058
	12	8.0	11	177	1947
	13	8.0	13	117	1521
	14	8.0	10	147	1470
	15	8.0	29	133	3857
	16	8.0	10	163	1630
	17	8.0	16	123	2214
	18	8.0	54	118	6372
	19	8.0	42	133	5586
	20	10.0	85	VAR	VAR

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	287.9	124.9
CA60	10.0	122.8	83.3
CA60		184.3	31.3
PESO TOTAL (kg)		208.2	31.3
CA50		208.2	
CA60		31.3	
Volume de concreto (C-30) = 4.09 m³			
Área de forma = 26.24 m²			



INSTITUTO FEDERAL DE SERGIPE

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

REVISADO POR

DATA

05/17

PROJETO ESTRUTURAL
RESTAURANTE CAMPUS ITABAIANA - SE

CLIENTE:
INSTITUTO FEDERAL DE SERGIPE - CAMPUS ITABAIANA - SE

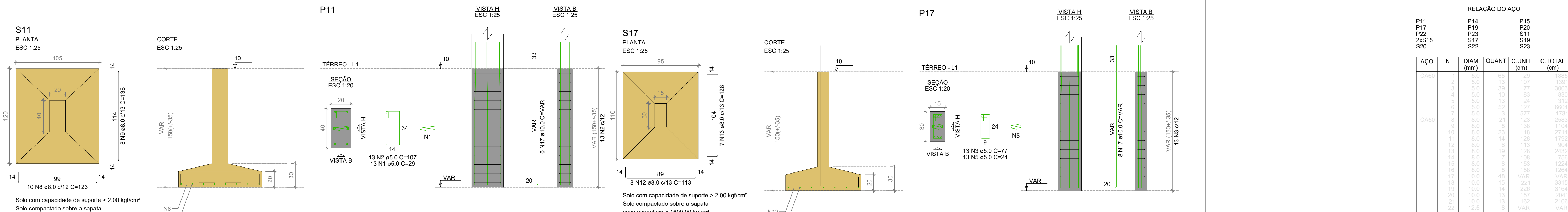
ENDEREÇO:
AV. PADRE AIRTON GONÇALVES LIMA 1140 - SÃO CRISTÓVÃO - ITABAIANA / SE

PLANTA:
RESTAURANTE
DETALHE ARMAÇÃO DAS SAPATAS 2 - 3

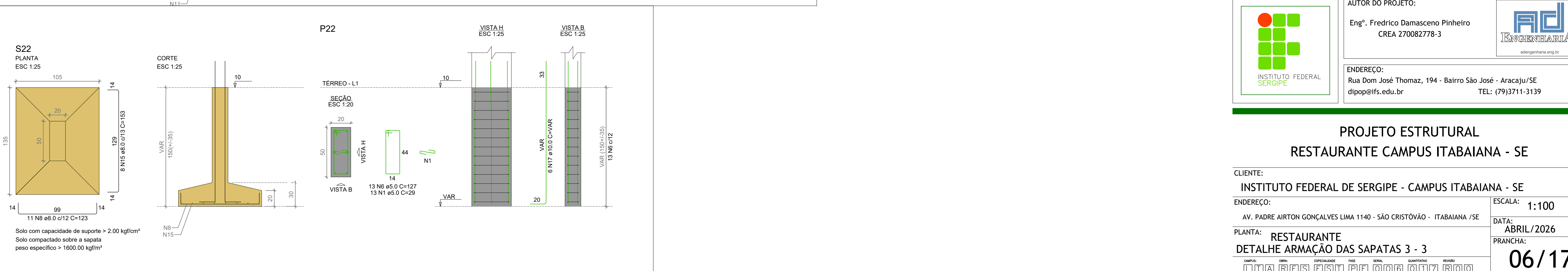
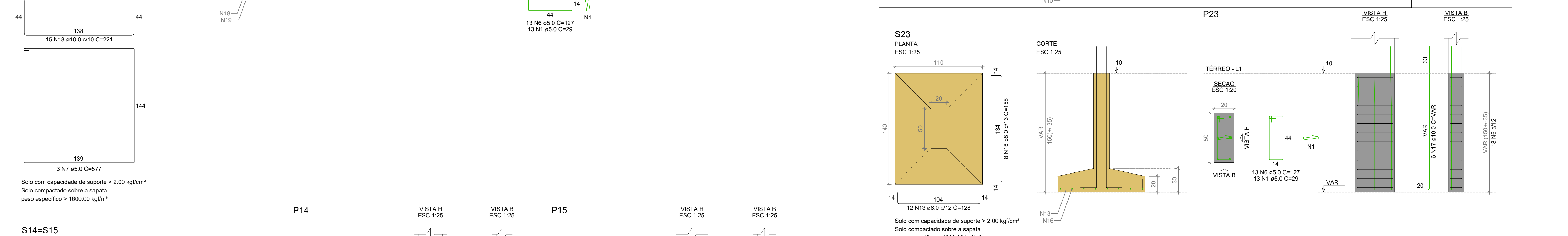
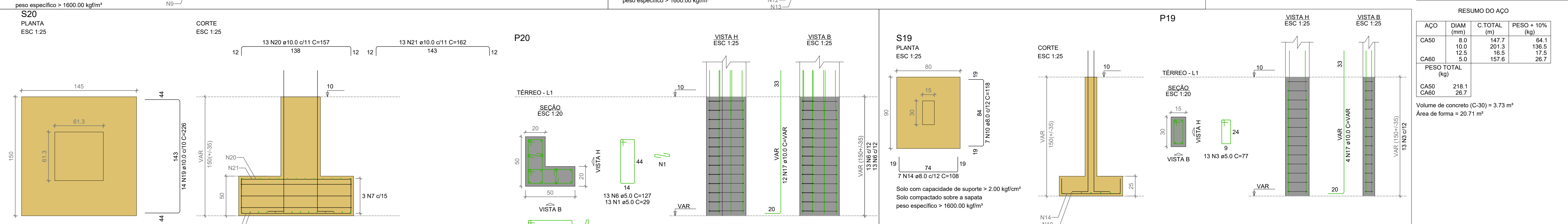
ESCALA:
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DATA:
ABRIL/2026

PRANCHA:
05/17



RELAÇÃO DO AÇO									
P11	P14	P15							
P17	P19	P20							
P23	S11	S11							
2xS10	S17	S19							
S25	S22	S23							
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)				
CA60	1	5.0	65	25	1625				
	2	5.0	13	107	1391				
	3	5.0	39	77	3003				
	4	5.0	10	83	830				
	5	5.0	13	24	312				
	6	5.0	52	127	6604				
	7	5.0	3	577	1731				
	8	8.0	21	123	2583				
	9	8.0	6	138	834				
	10	8.0	23	118	2714				
CA50	11	8.0	14	128	1792				
	12	8.0	6	113	904				
	13	8.0	19	128	2432				
	14	8.0	7	108	756				
	15	8.0	6	153	918				
	16	8.0	6	159	954				
	17	10.0	48	VAR	VAR				
	18	10.0	15	221	3315				
	19	10.0	14	226	3164				
	20	10.0	13	157	2046				
RESUMO DO AÇO									
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)						
CA50	8.0	147.7	64.1						
CA50	10.0	201.3	136.5						
CA60	12.5	16.5	17.5						
CA60	5.0	157.6	26.7						
PESO TOTAL (kg)									
CA50	218.1								
CA60	26.7								
Volume de concreto (C-30) = 3.73 m³									
Área de forma = 20.71 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

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TEL: (79)3711-3139

PROJETO ESTRUTURAL

RESTAURANTE CAMPUS ITABAIANA - SE

CLIENTE:

INSTITUTO FEDERAL DE SERGIPE - CAMPUS ITABAIANA - SE

ENDEREÇO:

AV. PADRE AIRTON GONÇALVES LIMA 1140 - SÃO CRISTÓVÃO - ITABAIANA /SE

PLANTA:

RESTAURANTE

DETALHE ARMAÇÃO DAS SAPATAS 3 - 3

CLIENTE: INSTITUTO FEDERAL DE SERGIPE

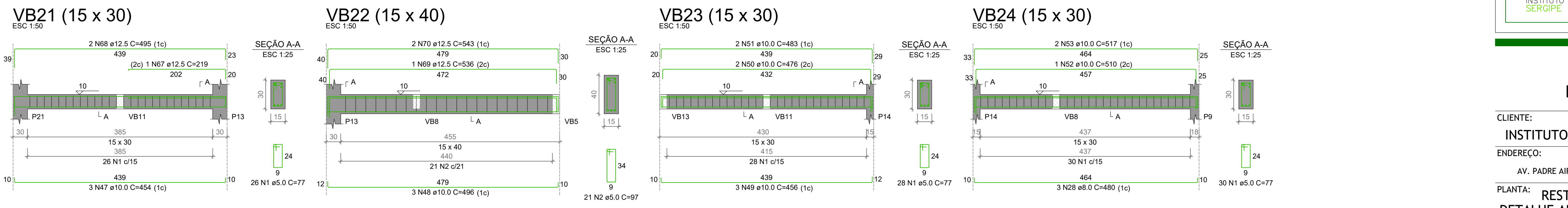
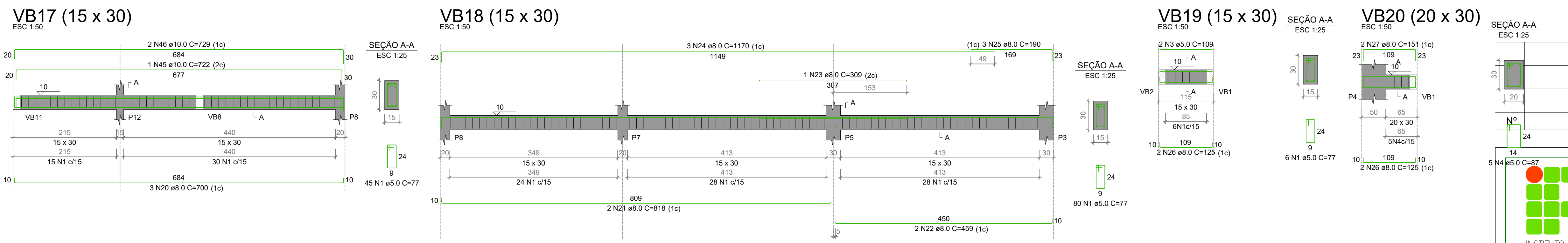
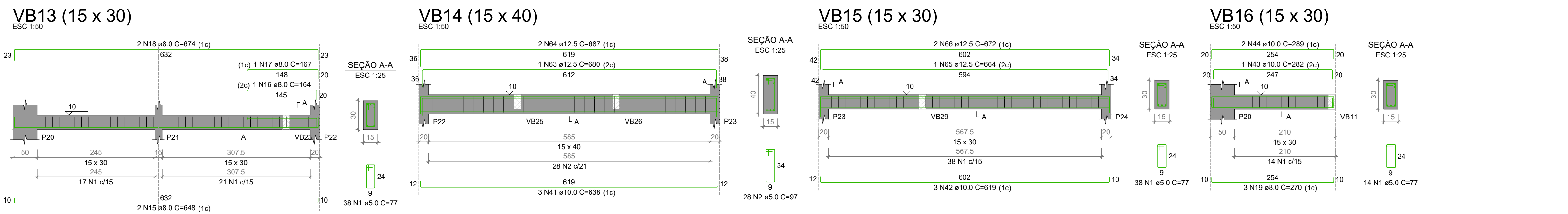
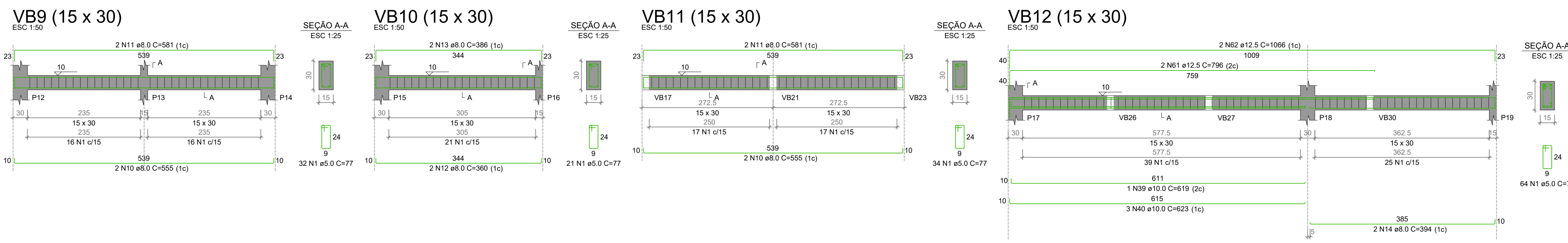
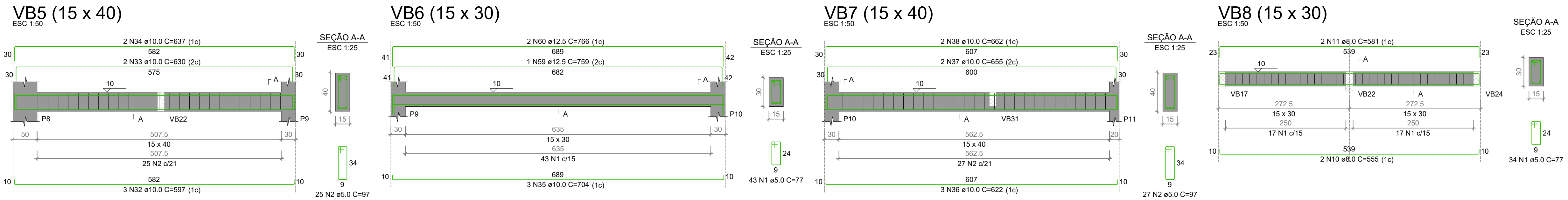
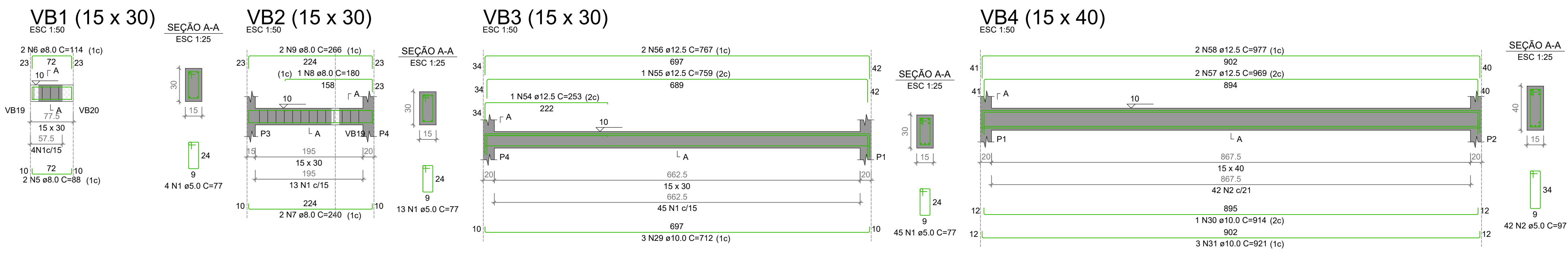
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ESCALA: 1:100

DATA: ABRIL/2026

PRINCHA: 06/17



RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
VB1	1	5.0	595	77	45815
VB4	2	5.0	143	97	13871
VB7	3	5.0	109	219	23871
VB10	4	5.0	87	435	37725
VB13	5	8.0	38	176	6688
VB16	6	8.0	114	228	25992
VB19	7	8.0	240	480	115200
VB22	8	8.0	180	180	32400
	9	8.0	296	532	157552
	10	8.0	555	3330	185865
	11	8.0	551	3486	192066
	12	8.0	360	720	259200
	13	8.0	386	772	298032
	14	8.0	384	788	302688
	15	8.0	645	1285	839025
	16	8.0	164	164	26896
	17	8.0	167	167	27889
	18	8.0	674	1348	908512
	19	8.0	270	810	218700
	20	8.0	700	2100	1470000
	21	8.0	818	1636	1338448
	22	8.0	439	878	385502
	23	8.0	309	618	191062
	24	8.0	1170	3510	4113000
	25	8.0	190	570	108300
	26	8.0	630	1260	799200
	27	8.0	151	302	45602
	28	8.0	480	1440	691200
	29	8.0	112	2136	239232
	30	10.0	914	914	835516
	31	10.0	921	2763	2544063
	32	10.0	587	1791	1051237
	33	10.0	630	1260	799200
	34	10.0	637	1274	811838
	35	10.0	704	2112	1486848
	36	10.0	622	1886	1173292
	37	10.0	655	3310	2166050
	38	10.0	682	682	464964
	39	10.0	619	619	383061
	40	10.0	623	623	388169
	41	10.0	638	1914	1222512
	42	10.0	619	1857	1145583
	43	10.0	282	282	79524
	44	10.0	289	578	167042
	45	10.0	722	722	521284
	46	10.0	729	1458	1060882
	47	10.0	454	1362	618528
	48	10.0	496	1488	737568
	49	10.0	456	1368	623968
	50	10.0	476	952	453152
	51	10.0	483	966	466578
	52	10.0	510	510	260100
	53	10.0	517	1034	534578
	54	12.5	253	253	64011
	55	12.5	759	759	575581
	56	12.5	767	1534	1175058
	57	12.5	989	1938	1916622
	58	12.5	977	1954	1919518
	59	12.5	759	759	575581
	60	12.5	766	1532	1173292
	61	12.5	796	1592	1267392
	62	12.5	1066	2132	2273552
	63	12.5	680	680	462400
	64	12.5	687	1374	945558
	65	12.5	664	664	439264
	66	12.5	672	1344	904896
	67	12.5	219	219	47961
	68	12.5	495	990	492045
	69	12.5	536	536	287296
	70	12.5	543	1086	589518

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	257.6	111.8
CA60	10.0	337.3	228.7
	12.5	193.5	205
	5.0	603.4	102.3
PESO TOTAL (kg)			
CA50		545.6	
CA60		102.3	

Volume de concreto (C-30) = 5.77 m³
Área de forma = 94.90 m²

ALTERAÇÃO/REVISÕES

Nº	REVISADO POR	DATA
14		
5		

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

INSTITUTO FEDERAL DE SERGIPE

AD ENGENHARIA

PROJETO ESTRUTURAL
RESTAURANTE CAMPUS ITABAIANA - SE

CLIENTE:
INSTITUTO FEDERAL DE SERGIPE - CAMPUS ITABAIANA - SE

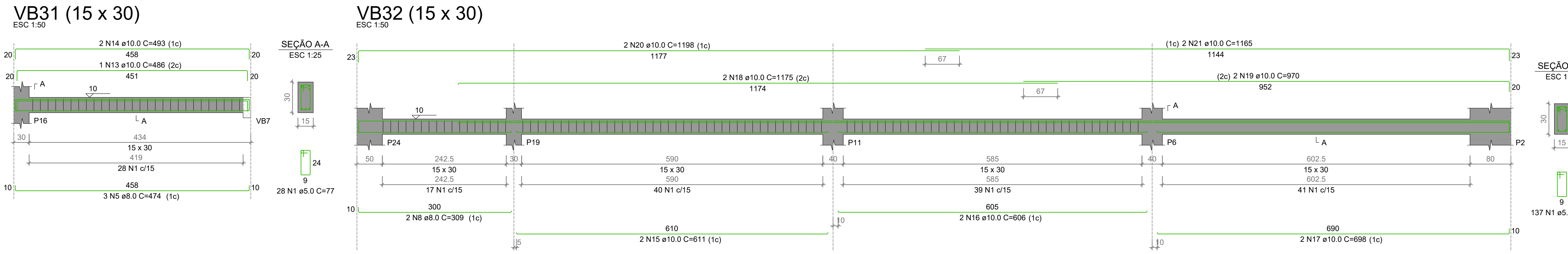
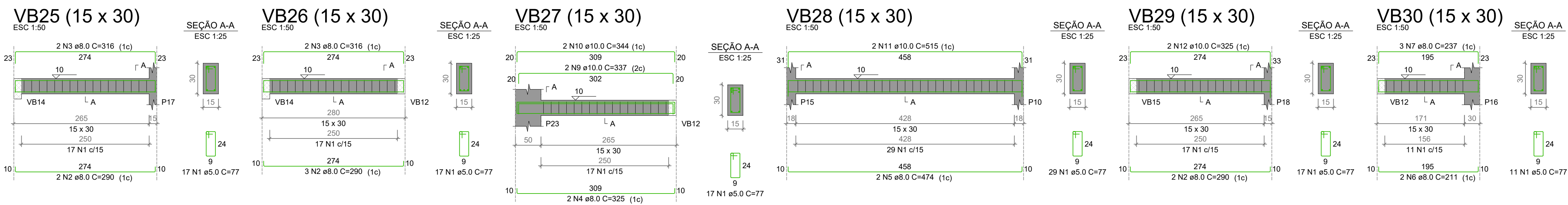
ENDEREÇO:
AV. PADRE AIRTON GONÇALVES LIMA 1140 - SÃO CRISTÓVÃO - ITABAIANA /SE

ESCALA: 1:100

PLANTA:
RESTAURANTE
DETALHE ARMAÇÃO DAS VIGAS BALDRAMES 1 - 2

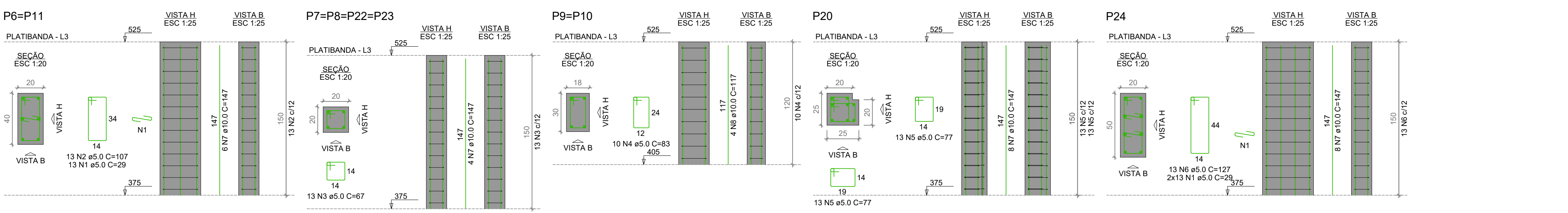
DATA: ABRIL/2026

PRANCHA: 07/17



RELAÇÃO DO AÇO					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	8.0	273	7	21021
CA60	2	8.0	7	290	2030
CA50	3	8.0	4	315	1264
CA50	4	8.0	2	325	650
CA50	5	8.0	5	474	2370
CA50	6	8.0	5	211	422
CA50	7	8.0	3	237	711
CA50	8	8.0	3	309	619
CA50	9	10.0	3	337	674
CA50	10	10.0	3	344	688
CA50	11	10.0	2	515	1030
CA50	12	10.0	2	325	650
CA50	13	10.0	1	485	485
CA50	14	10.0	2	433	866
CA50	15	10.0	2	611	1222
CA50	16	10.0	2	606	1212
CA50	17	10.0	2	698	1396
CA50	18	10.0	2	1175	2350
CA50	19	10.0	2	970	1940
CA50	20	10.0	2	1198	2396
CA50	21	10.0	2	1165	2330

RESUMO DO AÇO				
AÇO	DIAM (mm)	C.TOTAL (m)	PESO * 10% (kg)	
CA50	8.0	80.7	35	
CA60	10.0	173.6	117.7	
CA60	5.0	210.2	35.6	
PESO TOTAL (kg)				
CA50		152.7		
CA60		35.6		
Volume de concreto (C-30) = 1.83 m³				
Área de forma = 30.45 m²				



RELAÇÃO DO AÇO					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	52	25	1305
CA60	2	5.0	26	107	2782
CA60	3	5.0	52	67	3484
CA60	4	5.0	20	83	1660
CA60	5	5.0	26	77	2002
CA50	6	5.0	13	127	1651
CA50	7	10.0	44	147	6468
CA50	8	10.0	5	117	585

RESUMO DO AÇO			
AÇO	DIAM (mm)	C.TOTAL (m)	PESO * 10% (kg)
CA50	10.0	74	50.2
CA60	5.0	130.9	22.2
PESO TOTAL (kg)			
CA50		50.2	
CA60		22.2	
Volume de concreto (C-30) = 0.85 m³			
Área de forma = 14.30 m²			

Nº	ALTERAÇÃO/REVISÕES	REVISADO POR	DATA



INSTITUTO FEDERAL
SERGIPE

AUTOR DO PROJETO:

Engº. Fredrico Damasceno Pinheiro
CREA 270082778-3



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PROJETO ESTRUTURAL

RESTAURANTE CAMPUS ITABAIANA - SE

CLIENTE:

INSTITUTO FEDERAL DE SERGIPE - CAMPUS ITABAIANA - SE

ENDEREÇO:

AV. PADRE AIRTON GONÇALVES LIMA 1140 - SÃO CRISTÓVÃO - ITABAIANA / SE

ESCALA:

1:100

PLANTA:

RESTAURANTE

DETALHE ARMAÇÃO DAS VIGAS BALDRAMES 2 - 2 E PILARES 1-2

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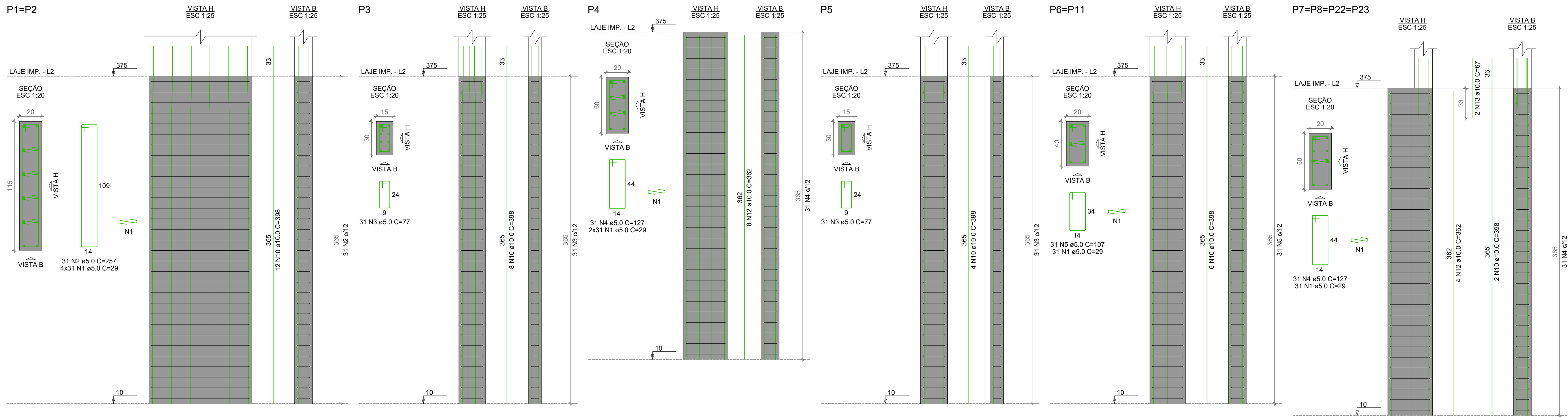
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PRANCHA:

08/17

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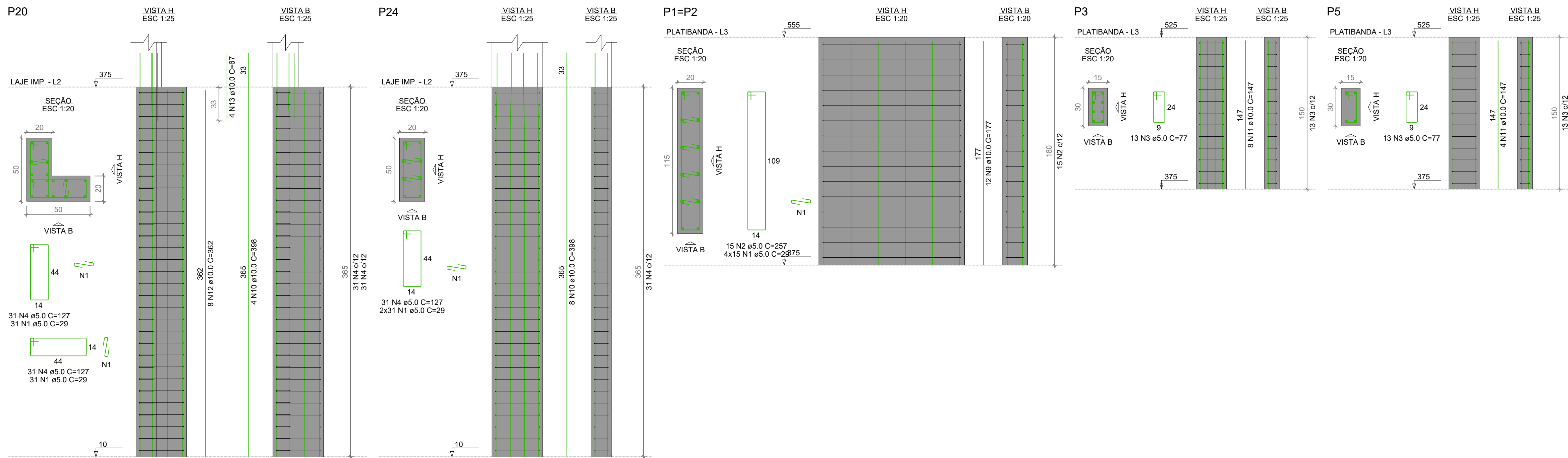
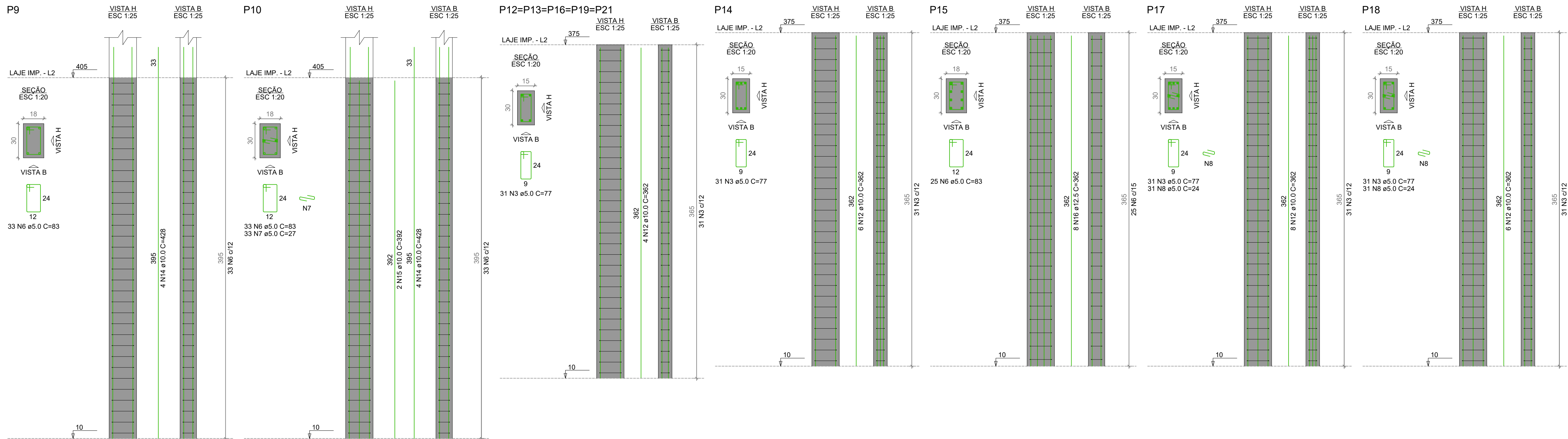


RELAÇÃO DO AÇO					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
2xP1-L3	1	3.0	749	23	17231
P3-L2	2	5.0	92	257	23644
P4-L2	3	5.0	336	77	25872
P5-L2	4	5.0	246	127	31486
P6-L2	5	5.0	62	107	6634
P7-L2	6	5.0	91	83	7553
P8-L2	7	5.0	33	27	891
P9-L2	8	5.0	82	24	1488
P10-L2	9	10.0	24	177	4248
P11-L2	10	10.0	68	398	27064
P12-L2	11	10.0	12	147	1764
P13-L2	12	10.0	72	362	26064
P14-L2	13	10.0	12	67	804
P15-L2	14	10.0	5	428	3424
P16-L2	15	10.0	392	764	29928
P17-L2	16	12.5	6	362	2172

RESUMO DO AÇO			
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	641.5	435.1
CA60	12.5	29	30.7
CA60	5.0	1190.4	201.8

PESO TOTAL (kg)	
CA50	465.8
CA60	201.8

Volume de concreto (C-30) = 8.27 m³
Área de forma = 122.79 m²



Nº	ALTERAÇÃO/REVISÕES	REVISADO POR	DATA

AUTOR DO PROJETO:
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PLANTA:
RESTAURANTE
DETALHE ARMAÇÃO DOS PILARES 2 - 2

ESCALA:
1:100

DATA:
ABRIL/2026

PRANCHA:
09/17