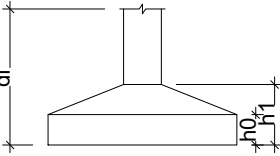


Tabela de Cargas										Tabela de Cargas									
Item	Local	Valor	Unidade	Observações	Item	Local	Valor	Unidade	Observações	Item	Local	Valor	Unidade	Observações	Item	Local	Valor	Unidade	Observações
1	1	1	1		1	1	1	1		1	1	1	1		1	1	1	1	
2	2	2	2		2	2	2	2		2	2	2	2		2	2	2	2	
3	3	3	3		3	3	3	3		3	3	3	3		3	3	3	3	
4	4	4	4		4	4	4	4		4	4	4	4		4	4	4	4	
5	5	5	5		5	5	5	5		5	5	5	5		5	5	5	5	
6	6	6	6		6	6	6	6		6	6	6	6		6	6	6	6	
7	7	7	7		7	7	7	7		7	7	7	7		7	7	7	7	
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9	9	9	9		9	9	9	9		9	9	9	9		9	9	9	9	
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11	11	11	11		11	11	11	11		11	11	11	11		11	11	11	11	
12	12	12	12		12	12	12	12		12	12	12	12		12	12	12	12	
13	13	13	13		13	13	13	13		13	13	13	13		13	13	13	13	
14	14	14	14		14	14	14	14		14	14	14	14		14	14	14	14	
15	15	15	15		15	15	15	15		15	15	15	15		15	15	15	15	
16	16	16	16		16	16	16	16		16	16	16	16		16	16	16	16	
17	17	17	17		17	17	17	17		17	17	17	17		17	17	17	17	
18	18	18	18		18	18	18	18		18	18	18	18		18	18	18	18	
19	19	19	19		19	19	19	19		19	19	19	19		19	19	19	19	



NOTAS:
01 - Todas as medidas em centímetros;
02 - Todas as bilotas em milímetros;
03 - O Cobrimento dos pilares é de 3,0cm.



PROJETO:
U.E DR. BARROSO

PROJETO TIPO: PROJETO DE INFRAESTRUTURA EDUCACIONAL

PROPRIETÁRIO:
NOME DO PROPRIETÁRIO
CPF.:

AUTOR DO PROJETO:
PHABULLO HUDSON SOUSA ARAUJO
CREA - 1918962669

RESPONSÁVEL TÉCNICO:
ARQUITETO / ENGENHEIRO
CAU / CREA

APROVAÇÕES:

OBSERVAÇÕES:

COORDENAÇÃO:
-

RESPONSÁVEL TÉCNICO:
-

PROPRIETÁRIO:
GOVERNO DO PIAUÍ
ENDEREÇO:

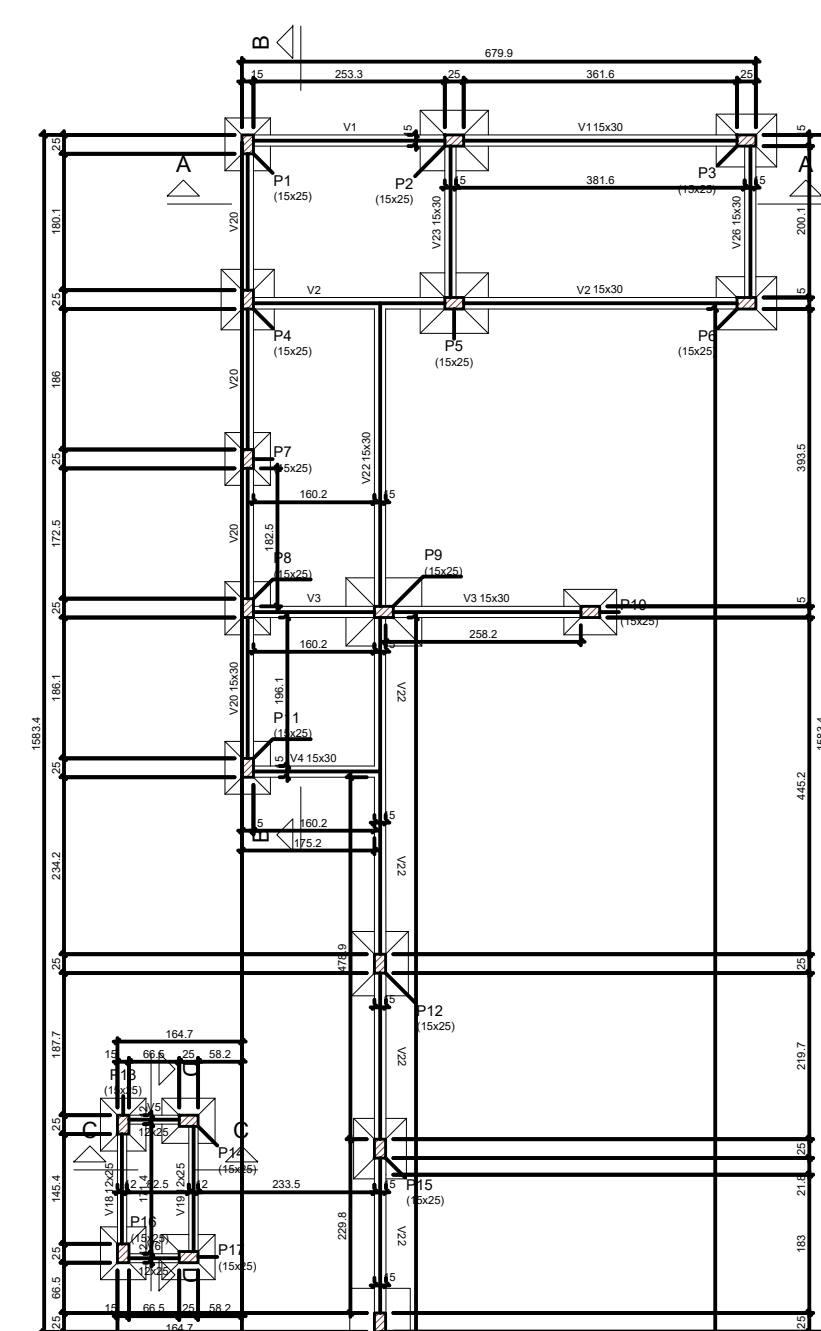
DESENHISTA:
PHABULLO HUDSON SOUSA ARAUJO

REVISÃO:
Praça Antonio, Av. Joaquim Amancio Ribeiro, s/n -
Centro, Dirceu Arcoverde - PI, 64720-000
DATA:
28/11/21

ESCALA:
1/100

FORMATO:
A0 (841 x 1189)

CONTEÚDO:
PLANTA DE SITUAÇÃO E LOCAÇÃO.

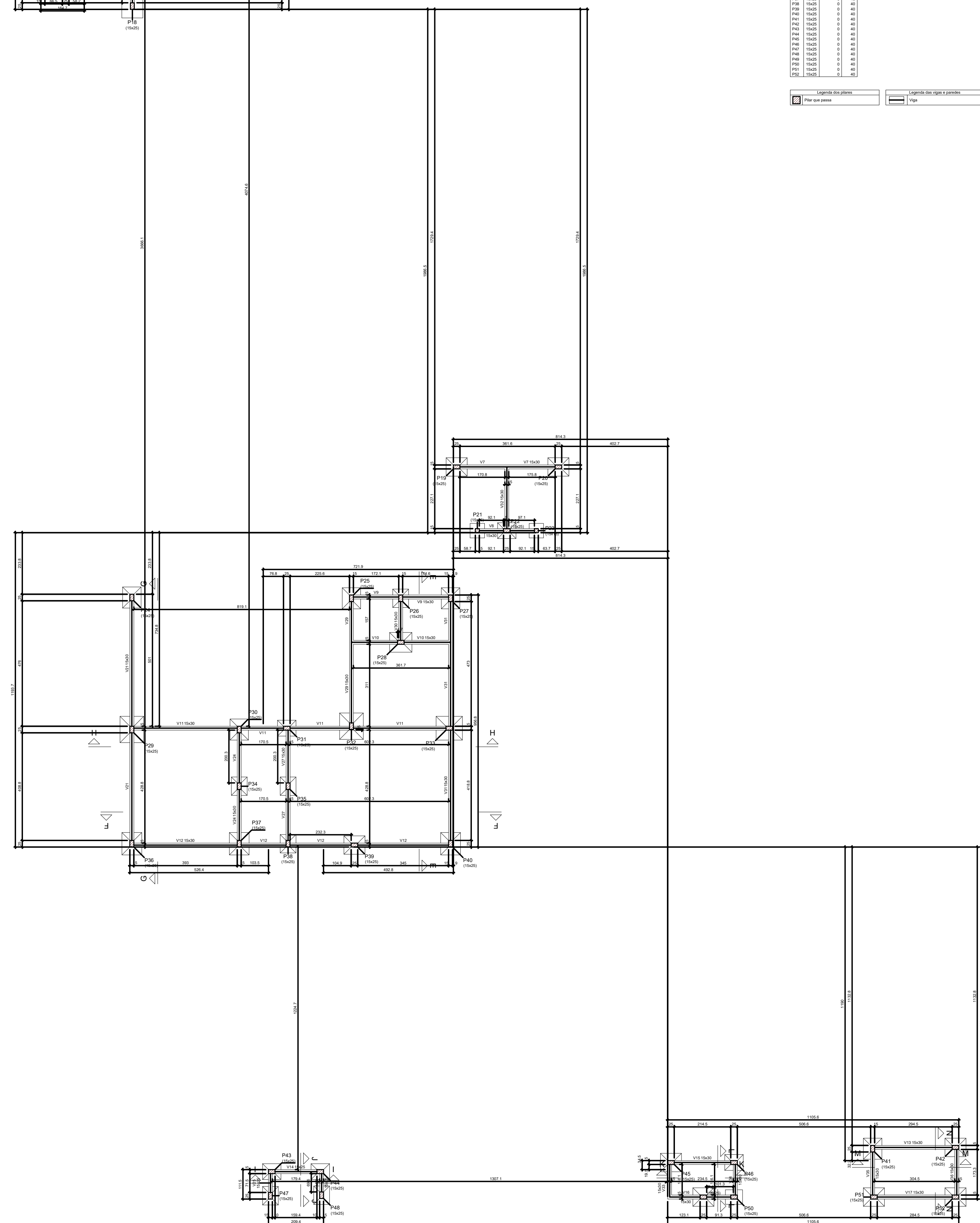


Name	Age		
	1940	1950	1960
V0	1930	0	0
V1	1930	0	0
V2	1930	0	0
V3	1930	0	0
V4	1930	0	0
V5	1930	0	0
V6	1930	0	0
V7	1930	0	0
V8	1930	0	0
V9	1930	0	0
V10	1930	0	0
V11	1930	0	0
V12	1930	0	0
V13	1930	0	0
V14	1930	0	0
V15	1930	0	0
V16	1930	0	0
V17	1930	0	0
V18	1925	0	0
V19	1925	0	0
V20	1930	0	0
V21	1930	0	0
V22	1930	0	0
V23	1930	0	0
V24	1930	0	0
V25	1930	0	0
V26	1930	0	0
V27	1930	0	0
V28	1930	0	0
V29	1930	0	0
V30	1930	0	0
V31	1930	0	0
V32	1930	0	0
V33	1930	0	0
V34	1930	0	0
V35	1930	0	0
V36	1930	0	0
V37	1930	0	0
V38	1930	0	0
V39	1930	0	0
V40	1930	0	0
V41	1930	0	0
V42	1930	0	0
V43	1930	0	0
V44	1930	0	0
V45	1930	0	0
V46	1930	0	0
V47	1930	0	0
V48	1930	0	0
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V52	1930	0	0
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V56	1930	0	0
V57	1930	0	0
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V63	1930	0	0
V64	1930	0	0
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V66	1930	0	0
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V69	1930	0	0
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V71	1930	0	0
V72	1930	0	0
V73	1930	0	0
V74	1930	0	0
V75	1930	0	0
V76	1930	0	0
V77	1930	0	0
V78	1930	0	0
V79	1930	0	0
V80	1930	0	0
V81	1930	0	0
V82	1930	0	0
V83	1930	0	0
V84	1930	0	0
V85	1930	0	0
V86	1930	0	0
V87	1930	0	0
V88	1930	0	0
V89	1930	0	0
V90	1930	0	0
V91	1930	0	0
V92	1930	0	0
V93	1930	0	0
V94	1930	0	0
V95	1930	0	0
V96	1930	0	0
V97	1930	0	0
V98	1930	0	0
V99	1930	0	0

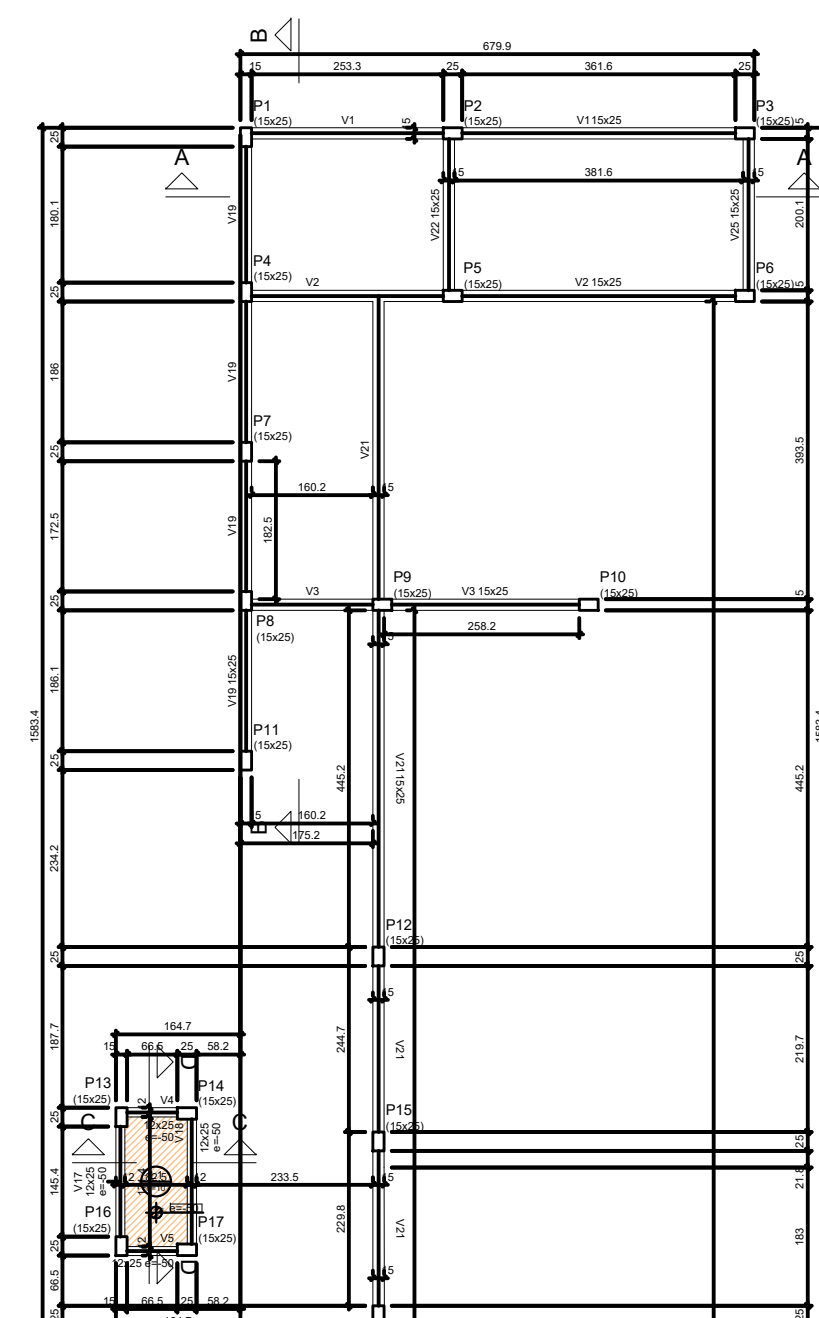
Características dos materiais	
Ita	Ita
2000	2000
20	2000

Series	Sample Size	Sample Period	Time Series	Time Series
P1	102	1950	1	1
P2	102	1950	1	1
P3	102	1950	1	1
P4	102	1950	1	1
P5	102	1950	1	1
P6	102	1950	1	1
P7	102	1950	1	1
P8	102	1950	1	1
P9	102	1950	1	1
P10	102	1950	1	1
P11	102	1950	1	1
P12	102	1950	1	1
P13	102	1950	1	1
P14	102	1950	1	1
P15	102	1950	1	1
P16	102	1950	1	1
P17	102	1950	1	1
P18	102	1950	1	1
P19	102	1950	1	1
P20	102	1950	1	1
P21	102	1950	1	1
P22	102	1950	1	1
P23	102	1950	1	1
P24	102	1950	1	1
P25	102	1950	1	1
P26	102	1950	1	1
P27	102	1950	1	1
P28	102	1950	1	1
P29	102	1950	1	1
P30	102	1950	1	1
P31	102	1950	1	1
P32	102	1950	1	1
P33	102	1950	1	1
P34	102	1950	1	1
P35	102	1950	1	1
P36	102	1950	1	1
P37	102	1950	1	1
P38	102	1950	1	1
P39	102	1950	1	1
P40	102	1950	1	1
P41	102	1950	1	1
P42	102	1950	1	1
P43	102	1950	1	1
P44	102	1950	1	1
P45	102	1950	1	1
P46	102	1950	1	1
P47	102	1950	1	1
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P49	102	1950	1	1
P50	102	1950	1	1
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P54	102	1950	1	1
P55	102	1950	1	1
P56	102	1950	1	1
P57	102	1950	1	1
P58	102	1950	1	1
P59	102	1950	1	1
P60	102	1950	1	1
P61	102	1950	1	1
P62	102	1950	1	1
P63	102	1950	1	1
P64	102	1950	1	1
P65	102	1950	1	1
P66	102	1950	1	1
P67	102	1950	1	1
P68	102	1950	1	1
P69	102	1950	1	1
P70	102	1950	1	1
P71	102	1950	1	1
P72	102	1950	1	1
P73	102	1950	1	1
P74	102	1950	1	1
P75	102	1950	1	1
P76	102	1950	1	1
P77	102	1950	1	1
P78	102	1950	1	1
P79	102	1950	1	1
P80	102	1950	1	1
P81	102	1950	1	1
P82	102	1950	1	1
P83	102	1950	1	1
P84	102	1950	1	1
P85	102	1950	1	1
P86	102	1950	1	1
P87	102	1950	1	1
P88	102	1950	1	1
P89	102	1950	1	1
P90	102	1950	1	1
P91	102	1950	1	1
P92	102	1950	1	1
P93	102	1950	1	1
P94	102	1950	1	1
P95	102	1950	1	1
P96	102	1950	1	1
P97	102	1950	1	1
P98	102	1950	1	1
P99	102	1950	1	1

 Pista sul asfalto



Forma do pavimento TÉRREO



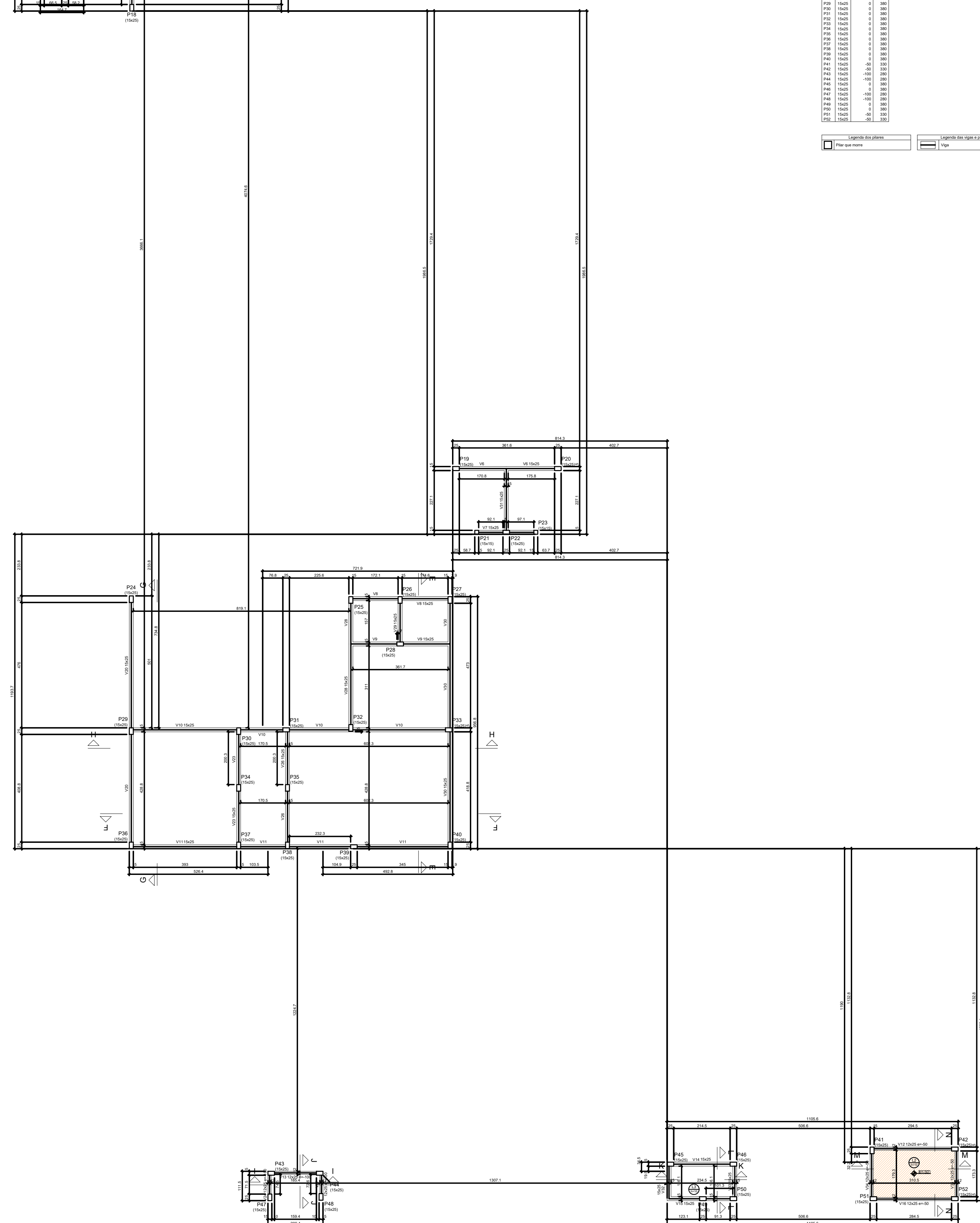
Pointe	Vitesse		Moyen (cm/s)	Moyen (cm)
	Bras (cm/s)	Mano (cm/s)		
V1	10/25	0	380	0
V2	10/25	0	380	0
V3	10/25	0	380	0
V4	10/25	-50	380	0
V5	10/25	0	380	0
V6	10/25	0	380	0
V7	10/25	0	380	0
V8	10/25	0	380	0
V9	10/25	0	380	0
V10	10/25	0	380	0
V11	10/25	0	380	0
V12	10/25	-50	380	0
V13	10/25	-150	280	0
V14	10/25	0	380	0
V15	10/25	0	380	0
V16	10/25	-50	380	0
V17	10/25	0	380	0
V18	10/25	-80	330	0
V19	10/25	0	380	0
V20	10/25	0	380	0
V21	10/25	0	380	0
V22	10/25	0	380	0
V23	10/25	0	380	0
V24	10/25	-150	280	0
V25	10/25	0	380	0
V26	10/25	0	380	0
V27	10/25	-150	280	0
V28	10/25	0	380	0
V29	10/25	0	380	0
V30	10/25	0	380	0
V31	10/25	0	380	0
V32	10/25	0	380	0
V33	10/25	0	380	0
V34	10/25	0	380	0
V35	10/25	0	380	0
V36	10/25	0	380	0
V37	10/25	0	380	0
V38	10/25	0	380	0
V39	10/25	0	380	0
V40	10/25	0	380	0
V41	10/25	0	380	0
V42	10/25	0	380	0
V43	10/25	0	380	0
V44	10/25	0	380	0
V45	10/25	0	380	0
V46	10/25	0	380	0
V47	10/25	0	380	0
V48	10/25	0	380	0
V49	10/25	0	380	0
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V56	10/25	0	380	0
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V58	10/25	0	380	0
V59	10/25	0	380	0
V60	10/25	0	380	0
V61	10/25	0	380	0
V62	10/25	0	380	0
V63	10/25	0	380	0
V64	10/25	0	380	0
V65	10/25	0	380	0
V66	10/25	0	380	0
V67	10/25	0	380	0
V68	10/25	0	380	0
V69	10/25	0	380	0
V70	10/25	0	380	0
V71	10/25	0	380	0
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V74	10/25	0	380	0
V75	10/25	0	380	0
V76	10/25	0	380	0
V77	10/25	0	380	0
V78	10/25	0	380	0
V79	10/25	0	380	0
V80	10/25	0	380	0
V81	10/25	0	380	0
V82	10/25	0	380	0
V83	10/25	0	380	0
V84	10/25	0	380	0
V85	10/25	0	380	0
V86	10/25	0	380	0
V87	10/25	0	380	0
V88	10/25	0	380	0
V89	10/25	0	380	0
V90	10/25	0	380	0
V91	10/25	0	380	0
V92	10/25	0	380	0
V93	10/25	0	380	0
V94	10/25	0	380	0
V95	10/25	0	380	0
V96	10/25	0	380	0
V97	10/25	0	380	0
V98	10/25	0	380	0
V99	10/25	0	380	0
V100	10/25	0	380	0

Linha						
Nome	Tipo	Dados			Informações Adicionais	
		Altura (cm)	Idade (anos)	Peso (kg)	Adoção	Localização
L1	Macho	75	30	250	112	13
L2	Fêmea	78	32	280	134	15

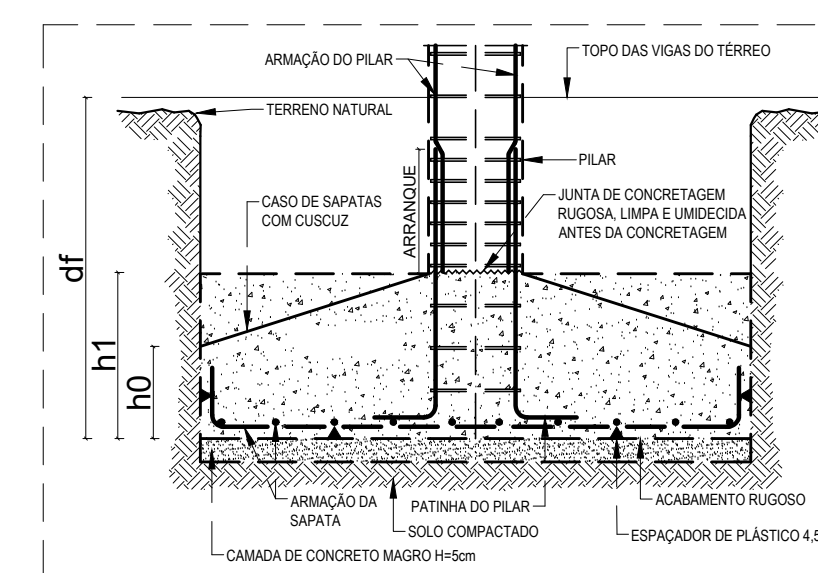
Características dos materiais	
SA	ES
Quartzo	Quartzo
200	200/300

Item	Means			t	df	p
	Student	Teacher	Control			
F1	75.00	75.00	75.00			
F2	75.00	75.00	75.00			
F3	75.00	75.00	75.00			
F4	75.00	75.00	75.00			
F5	75.00	75.00	75.00			
F6	75.00	75.00	75.00			
F7	75.00	75.00	75.00			
F8	75.00	75.00	75.00			
F9	75.00	75.00	75.00			
F10	75.00	75.00	75.00			
F11	75.00	75.00	75.00			
F12	75.00	75.00	75.00			
F13	75.00	75.00	75.00			
F14	75.00	75.00	75.00			
F15	75.00	75.00	75.00			
F16	75.00	75.00	75.00			
F17	75.00	75.00	75.00			
F18	75.00	75.00	75.00			
F19	75.00	75.00	75.00			
F20	75.00	75.00	75.00			
F21	75.00	75.00	75.00			
F22	75.00	75.00	75.00			
F23	75.00	75.00	75.00			
F24	75.00	75.00	75.00			
F25	75.00	75.00	75.00			
F26	75.00	75.00	75.00			
F27	75.00	75.00	75.00			
F28	75.00	75.00	75.00			
F29	75.00	75.00	75.00			
F30	75.00	75.00	75.00			
F31	75.00	75.00	75.00			
F32	75.00	75.00	75.00			
F33	75.00	75.00	75.00			
F34	75.00	75.00	75.00			
F35	75.00	75.00	75.00			
F36	75.00	75.00	75.00			
F37	75.00	75.00	75.00			
F38	75.00	75.00	75.00			
F39	75.00	75.00	75.00			
F40	75.00	75.00	75.00			
F41	75.00	75.00	75.00			
F42	75.00	75.00	75.00			
F43	75.00	75.00	75.00			
F44	75.00	75.00	75.00			
F45	75.00	75.00	75.00			
F46	75.00	75.00	75.00			
F47	75.00	75.00	75.00			
F48	75.00	75.00	75.00			
F49	75.00	75.00	75.00			
F50	75.00	75.00	75.00			
F51	75.00	75.00	75.00			
F52	75.00	75.00	75.00			
F53	75.00	75.00	75.00			
F54	75.00	75.00	75.00			
F55	75.00	75.00	75.00			
F56	75.00	75.00	75.00			
F57	75.00	75.00	75.00			
F58	75.00	75.00	75.00			
F59	75.00	75.00	75.00			
F60	75.00	75.00	75.00			
F61	75.00	75.00	75.00			
F62	75.00	75.00	75.00			
F63	75.00	75.00	75.00			
F64	75.00	75.00	75.00			
F65	75.00	75.00	75.00			
F66	75.00	75.00	75.00			
F67	75.00	75.00	75.00			
F68	75.00	75.00	75.00			
F69	75.00	75.00	75.00			
F70	75.00	75.00	75.00			
F71	75.00	75.00	75.00			
F72	75.00	75.00	75.00			
F73	75.00	75.00	75.00			
F74	75.00	75.00	75.00			
F75	75.00	75.00	75.00			

Figura 1.3.2. Legenda dos pontos e das vigas e paradas



Forma do pavimento SUPERIOR




NOTAS:
 Todas as medidas em centímetros;
 Todas as bitolas em milímetros;
 O Cobrimento dos pilares é de 3,0cm.



PROJETO:
U.E DR. BARROSO

PROJETO TIPO: PROJETO DE INFRAESTRUTURA EDUCACIONAL

PROPRIETÁRIO: _____
NOME DO PROPRIETÁRIO _____
CPF.: _____

AUTOR DO PROJETO: 

PHABULLO HUDSON SOUSA ARAUJO
CREA - 1918962669

RESPONSÁVEL TÉCNICO:

ARQUITETO / ENGENHEIRO
CAU / CREA

APROVAÇÕES:

OBSERVAÇÕES:

COORDENAÇÃO:

RESPONSÁVEL TÉCNICO:

PROPRIETÁRIO:
GOVERNO DO PIAUÍ

ENDEREÇO:

DESENHISTA:
PHABULLO HUDSON SOUSA ARAUJO

REVISÃO:
Praça Antonio, Av. Joaquim Amancio Ribeiro, s/n -
Centro, Dirceu Arcoverde - PI, 64720-000
DATA:
28/11/21

ESCALA:
1/100

FORMATO:
A0 (841 x 1189)

CONTEÚDO:

PLANTA DE FORMA TÉRREO E SUPERIOR.

*NENHUMA PARTE DESTA FOLHA PODE SER UTILIZADA OU REPRODUZIDA - EM QUALQUER MODO OU FORMA, SEJA MECÂNICO OU ELETRÔNICO, FOTOCÓPIA, GRAVAÇÃO ETC. - NEM APROPRIADA E UTILIZADA EM RISTROS DE BANCOS DE DADOS, SEM A EXPRÉSSA AUTORIZAÇÃO DO BANCOS DE DADOS RELACIONADOS *

1

2

3

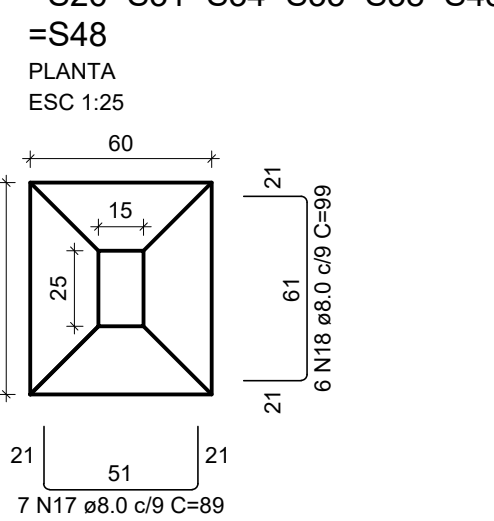
1

2

3

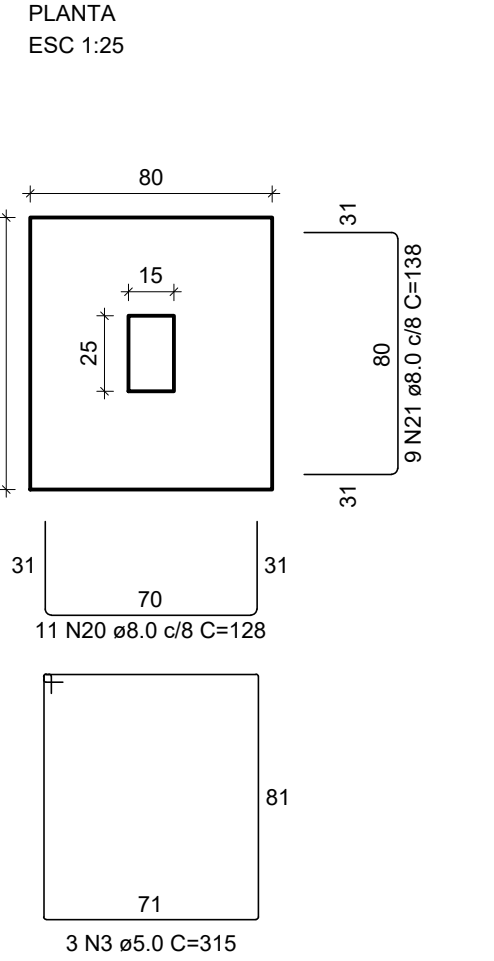
SAPATA E ARRANQUE - NIVEL (-120)

S1=S7=S8=S10=S11=S13=S14=S16=S17=S22
=S26=S31=S34=S35=S38=S43=S44=S46=S47
=S48



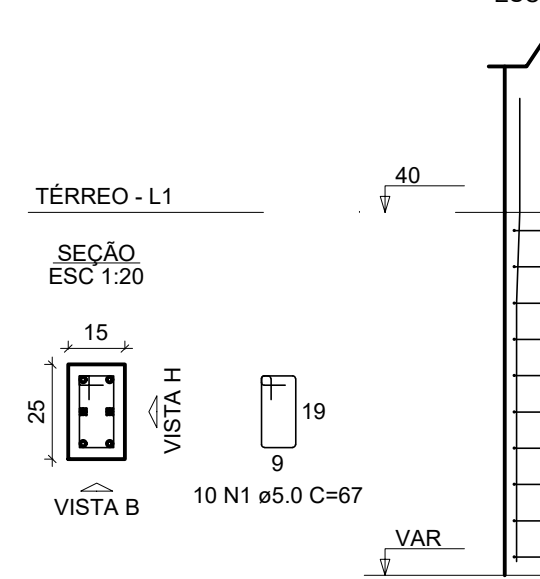
Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kg/m³

S18

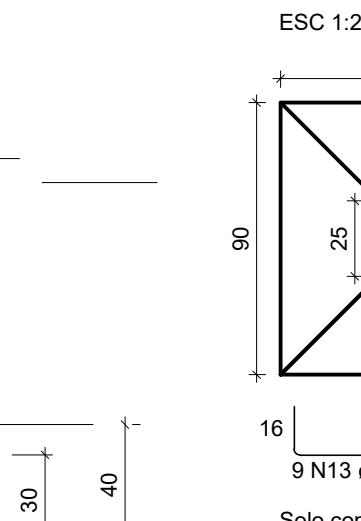


Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kg/m³

P12=P15

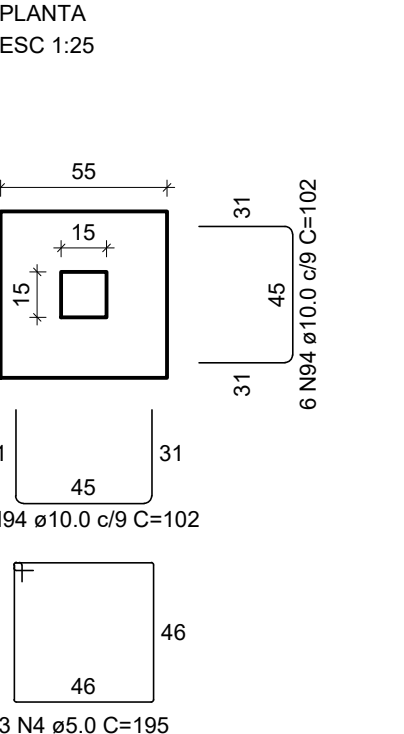


S2=S5



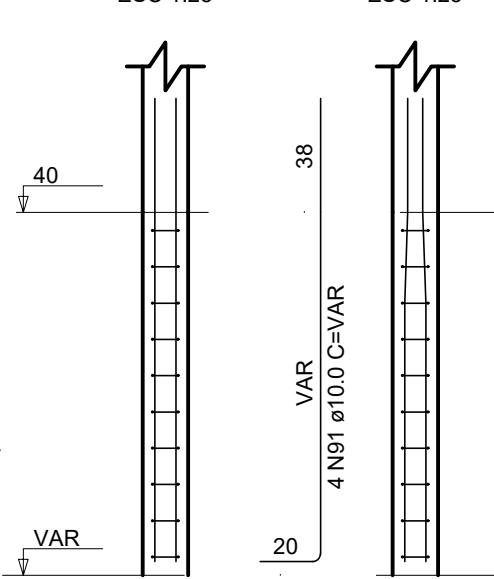
Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kg/m³

S21

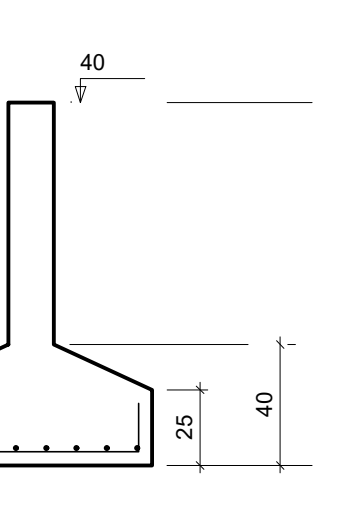


Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kg/m³

P21=P23

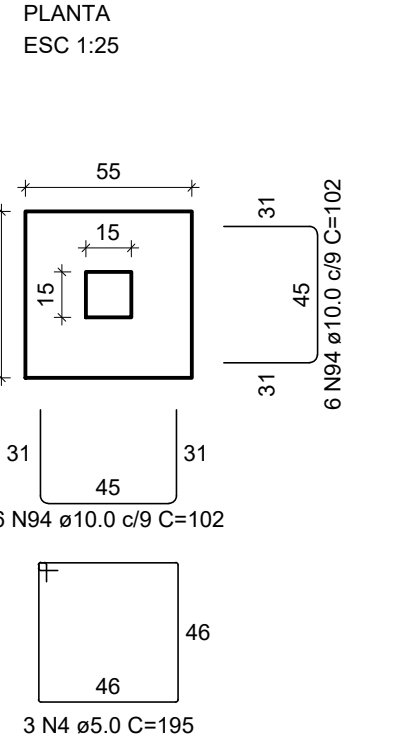


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=S39=S41=S42=S45=S49=S51=S52



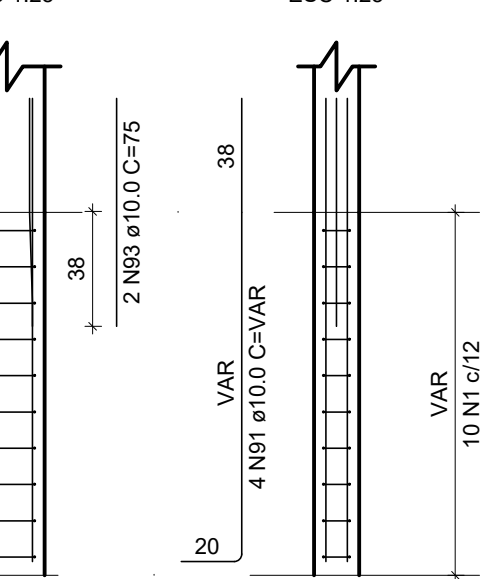
Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kg/m³

S23

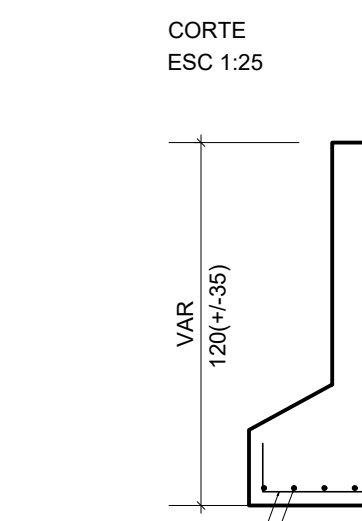


Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kg/m³

P24

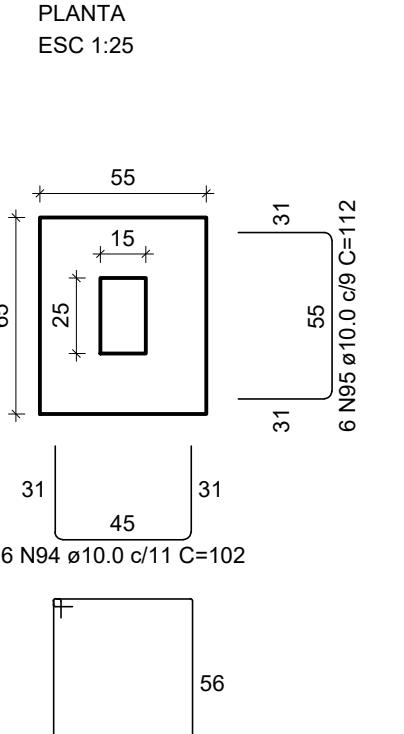


S9=S29=S32=S33



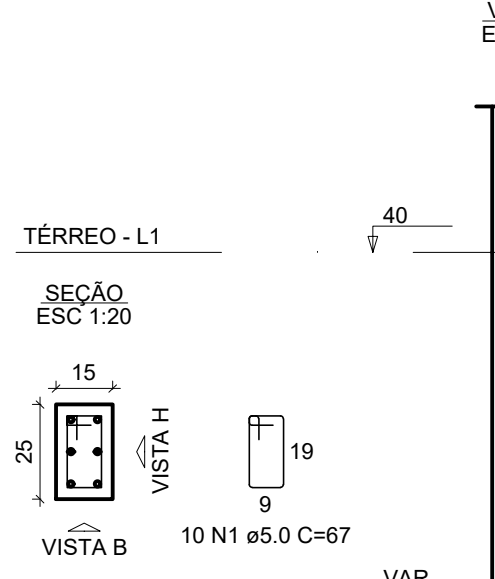
Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kg/m³

S50

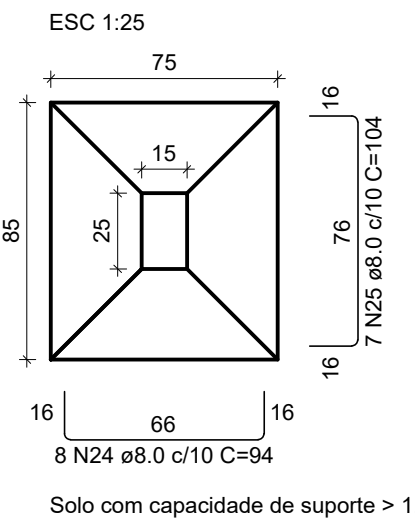


Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kg/m³

P29=P36=P40

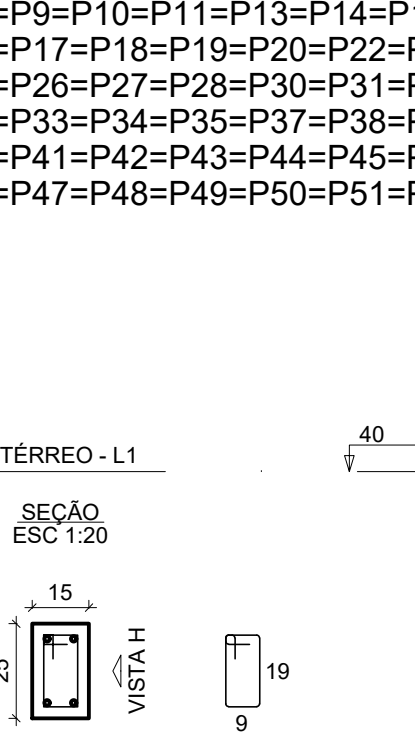


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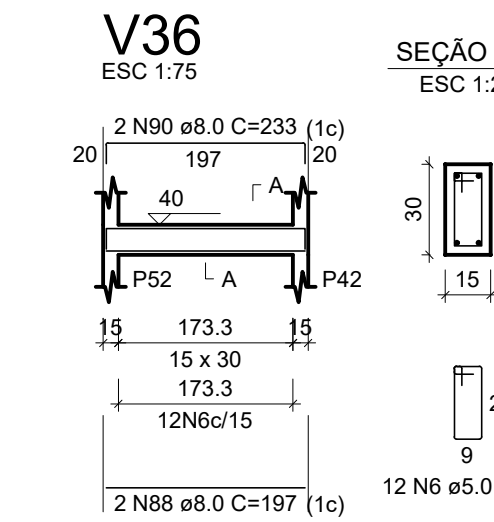
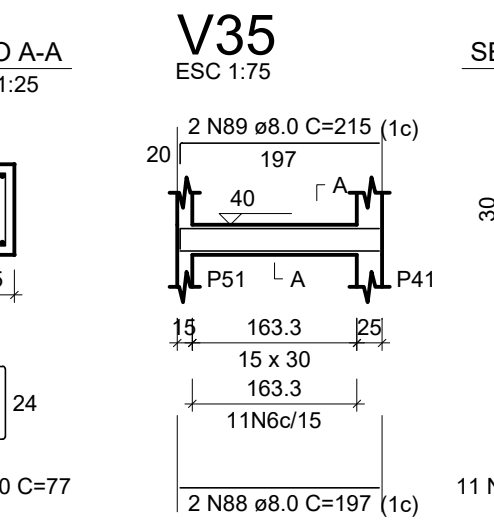
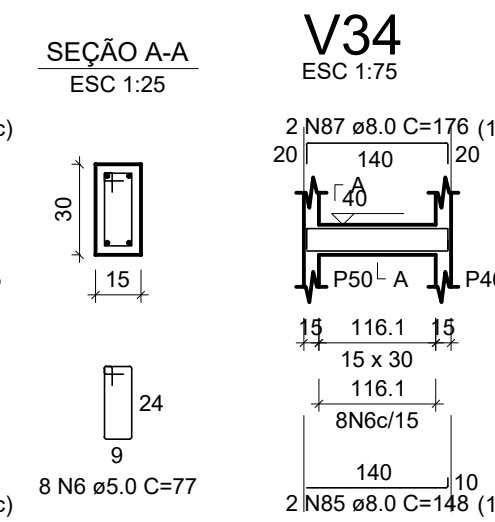
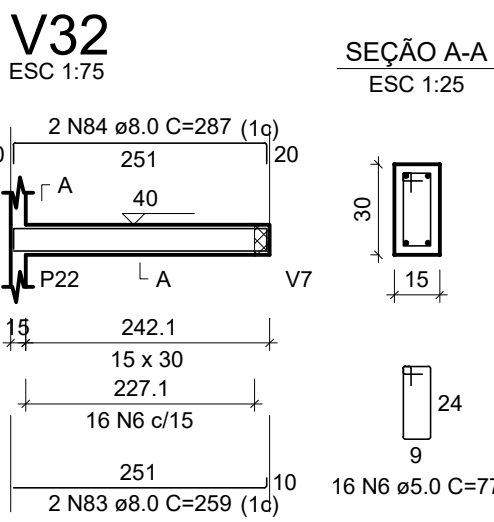
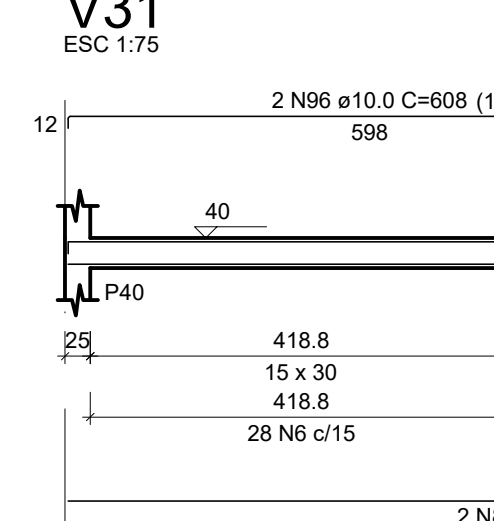
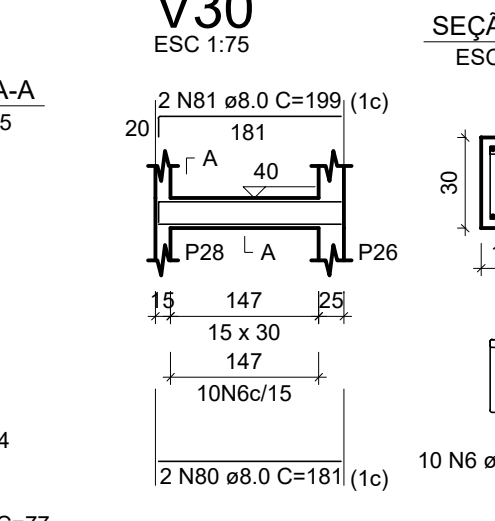
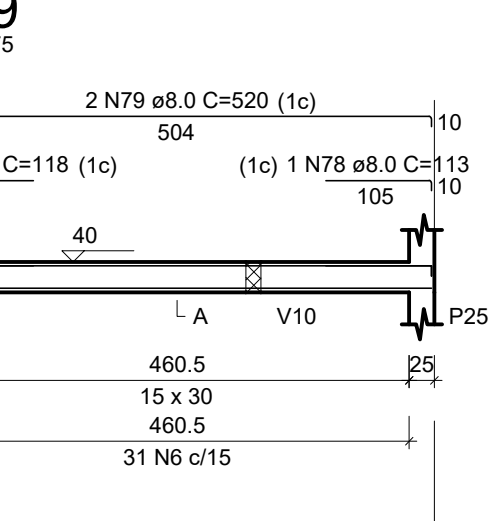
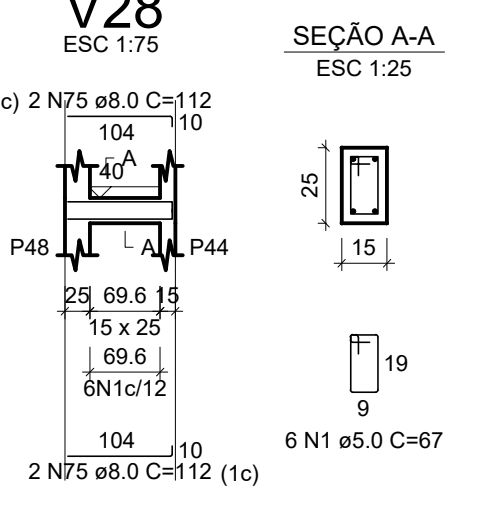
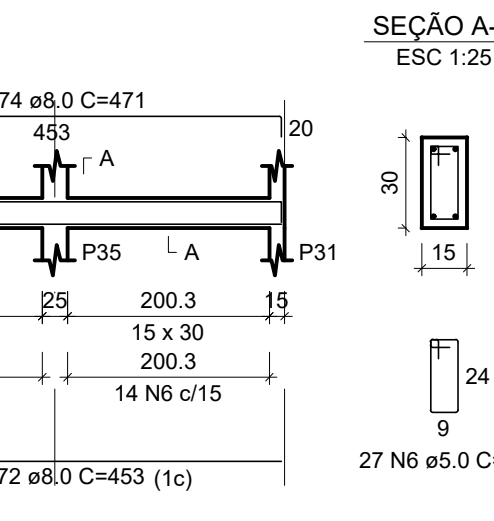
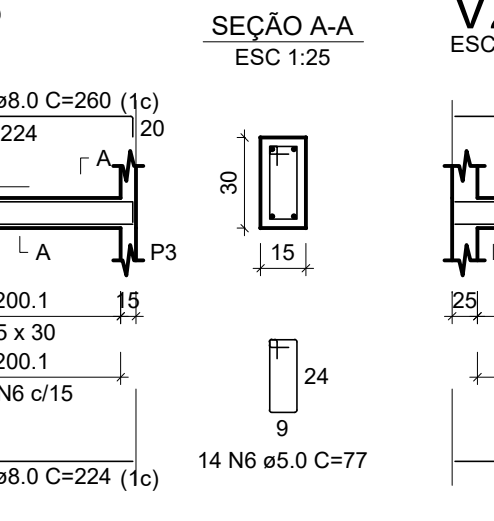
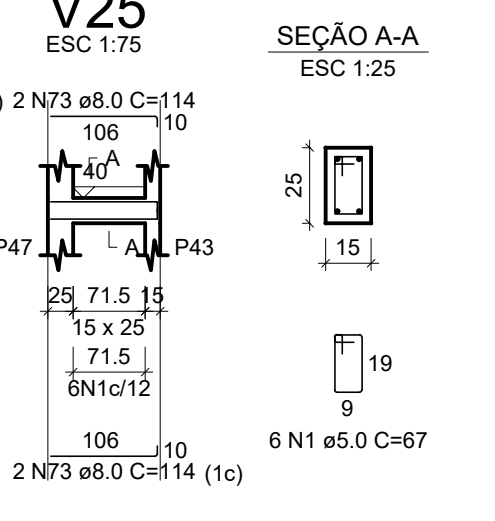
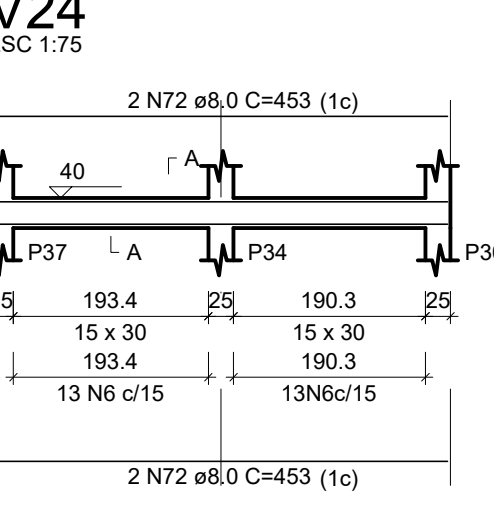
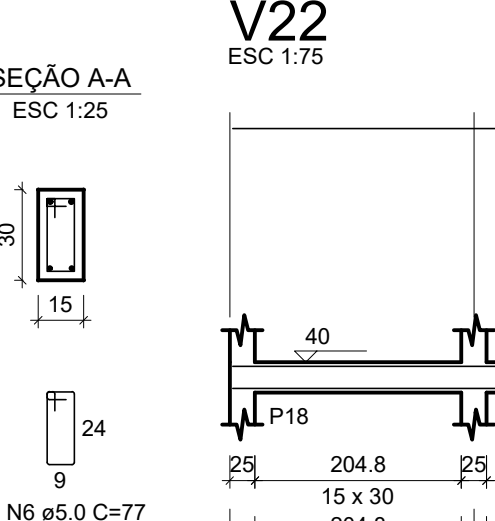
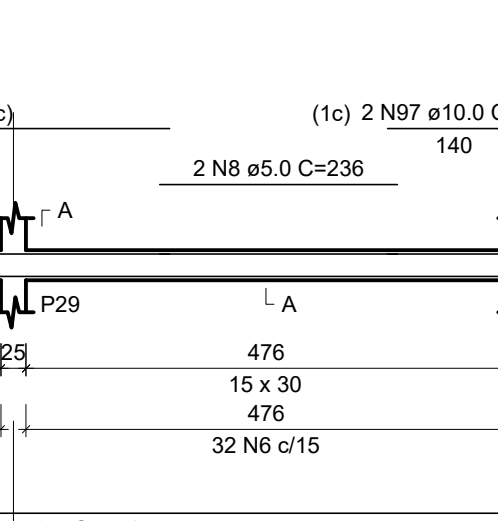
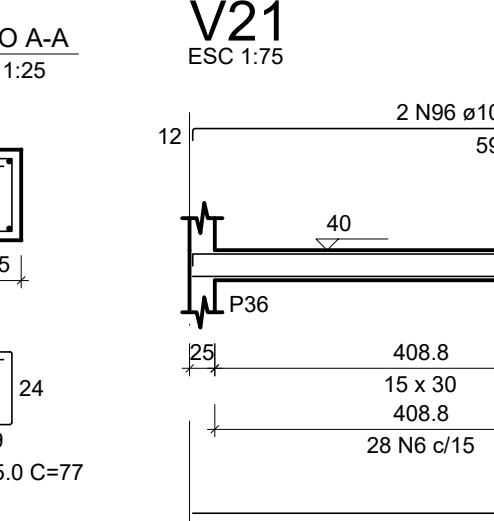
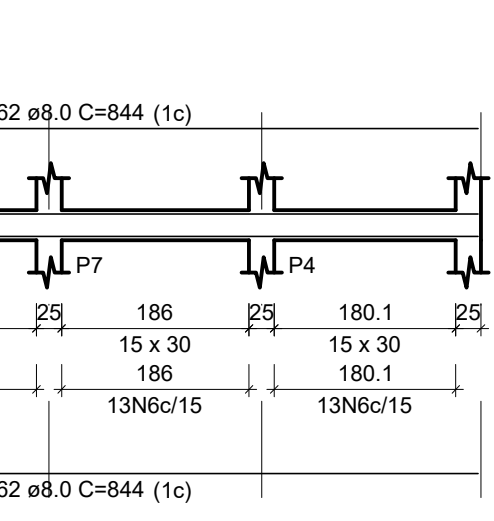
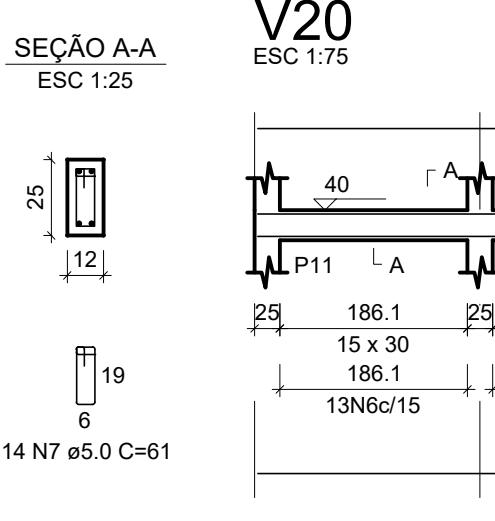
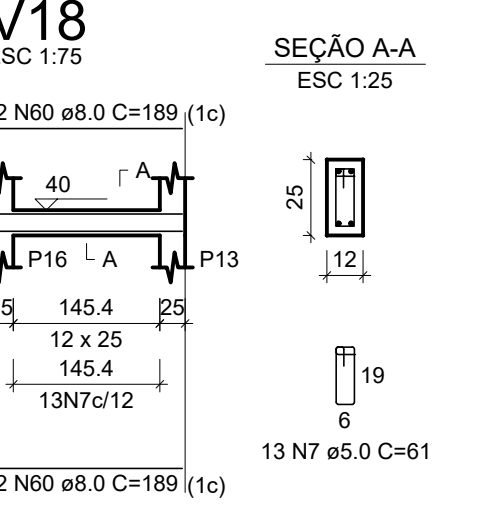
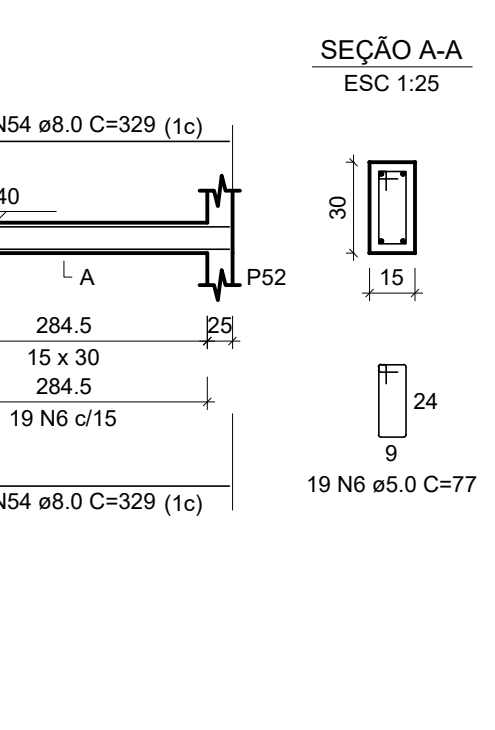
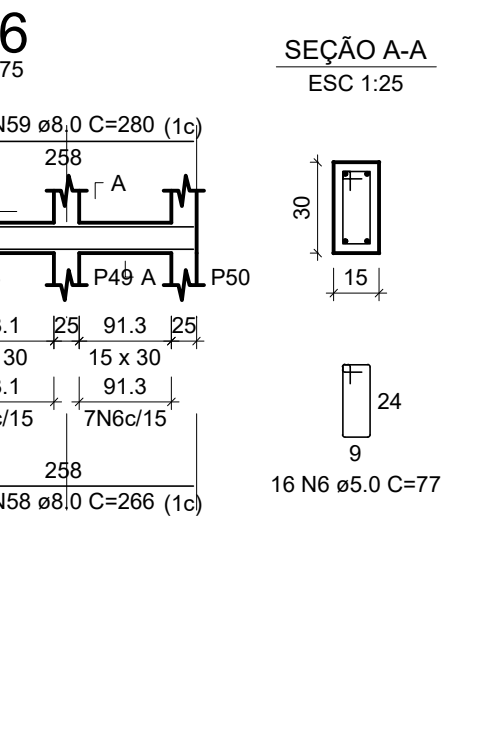
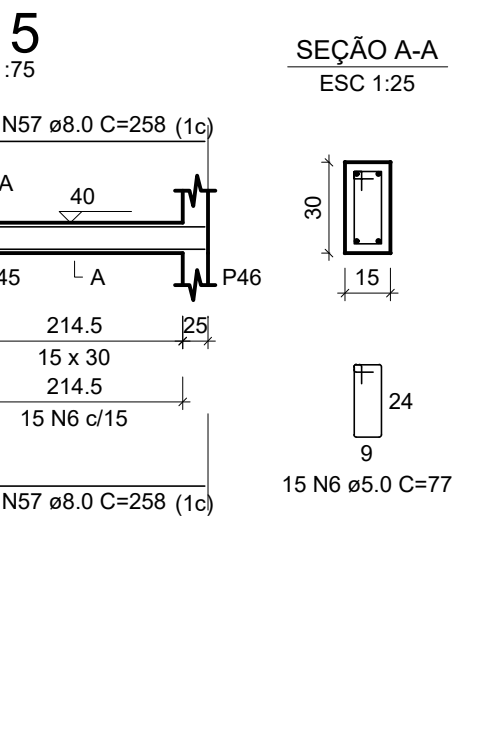
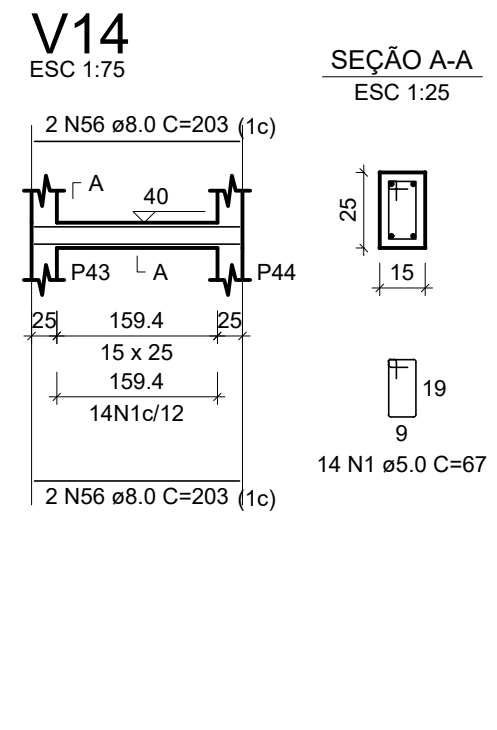
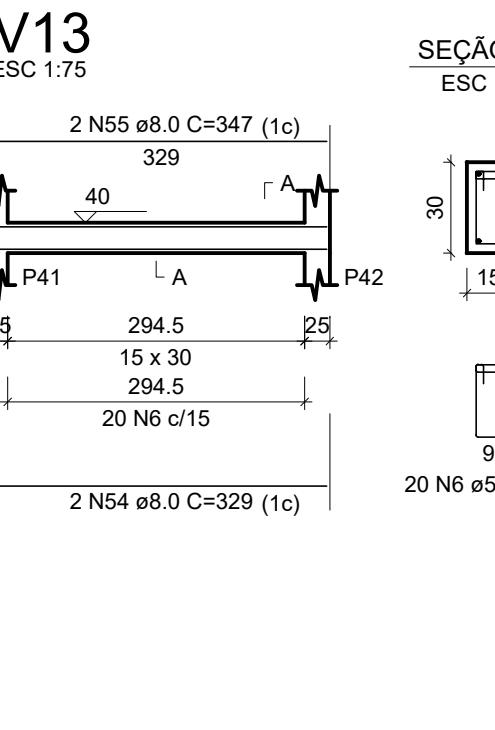
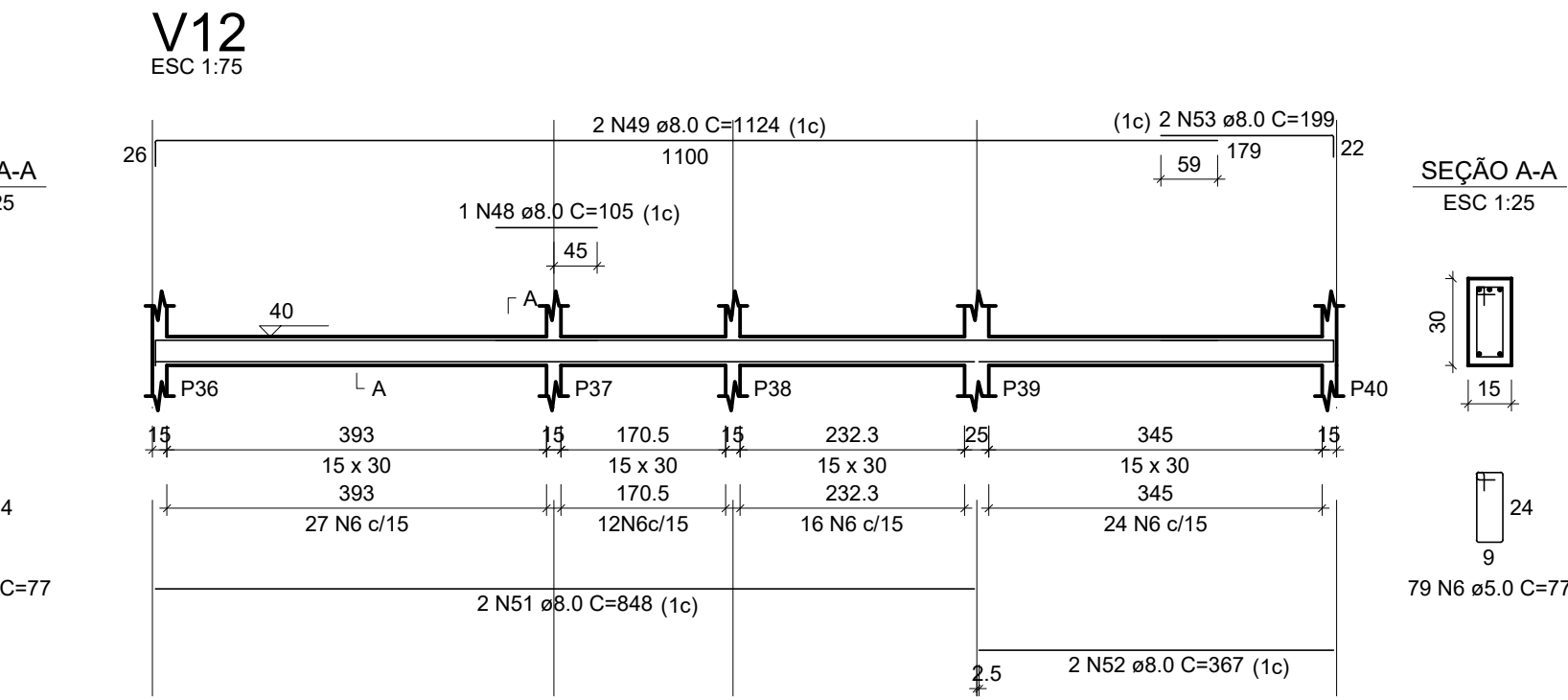
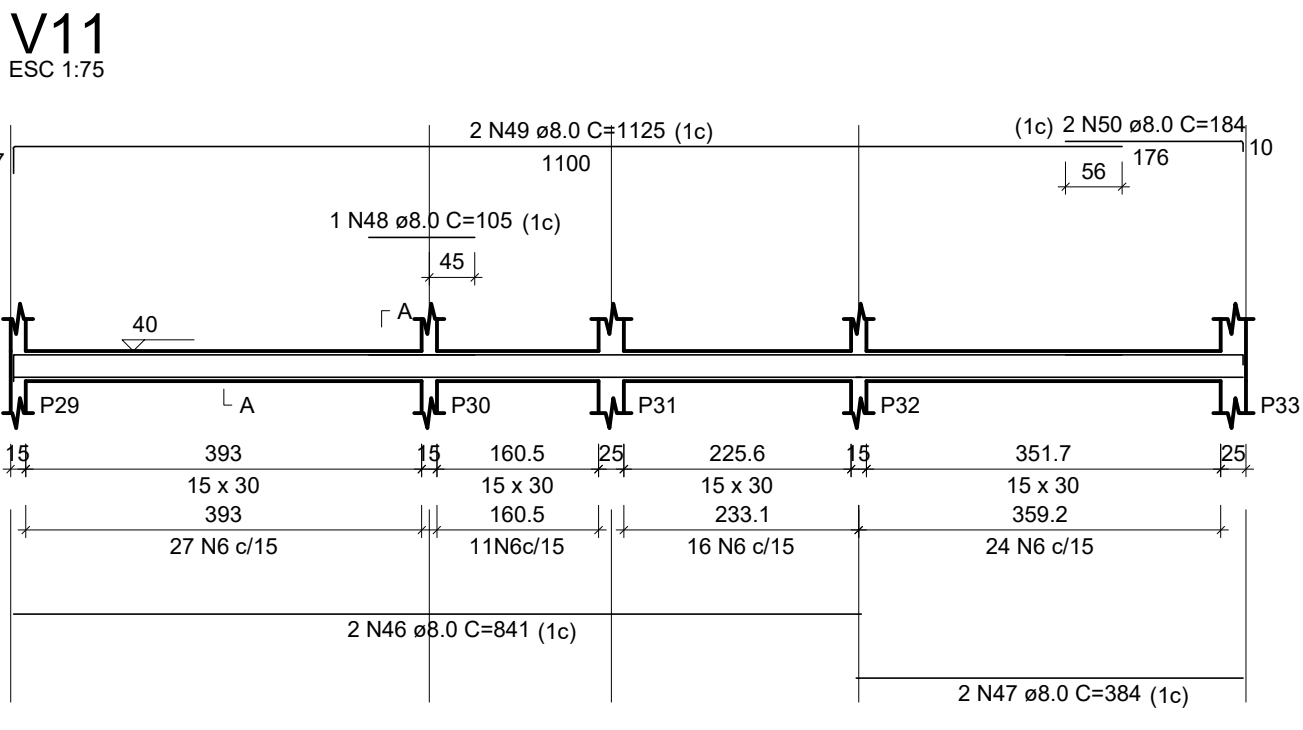
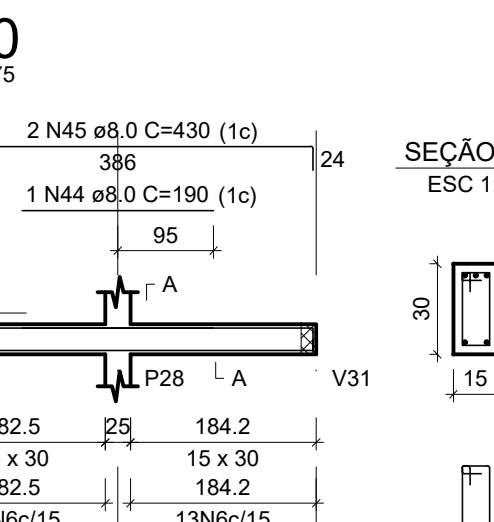
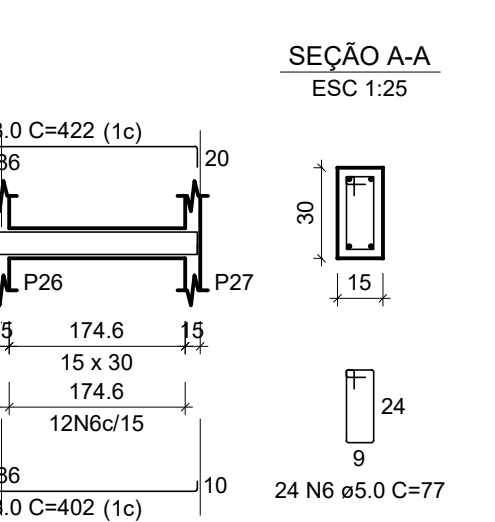
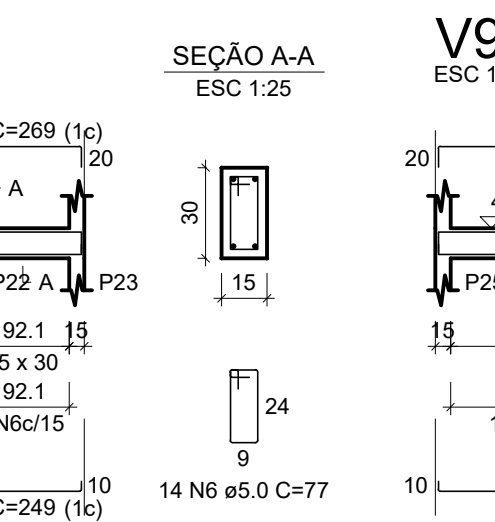
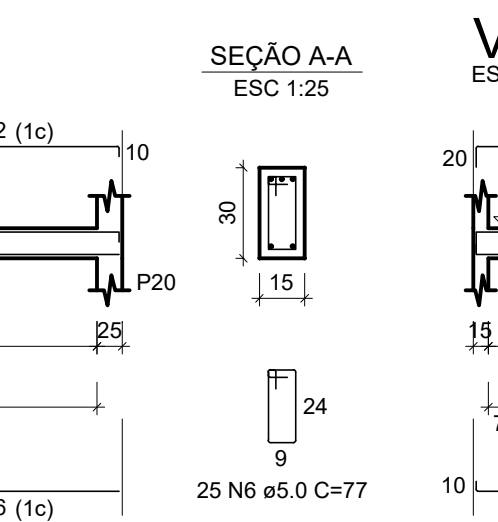
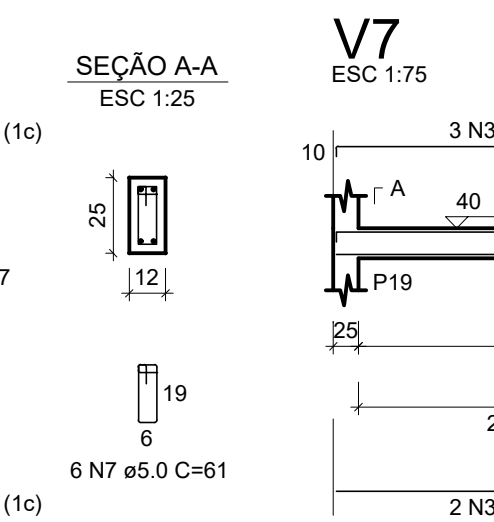
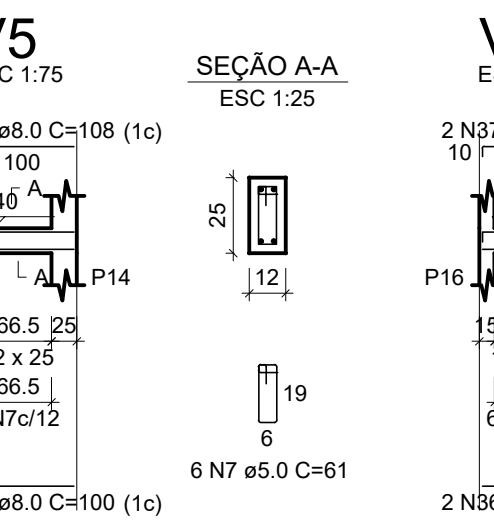
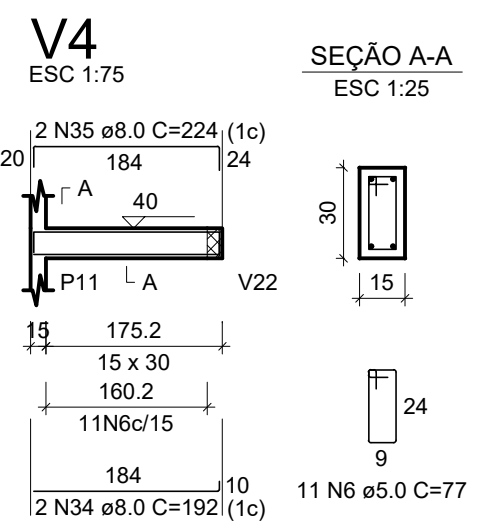
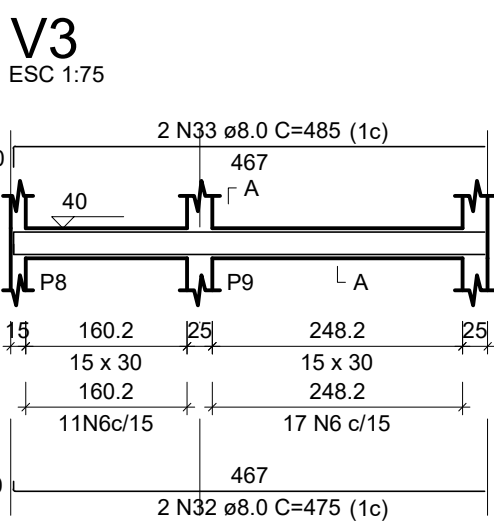
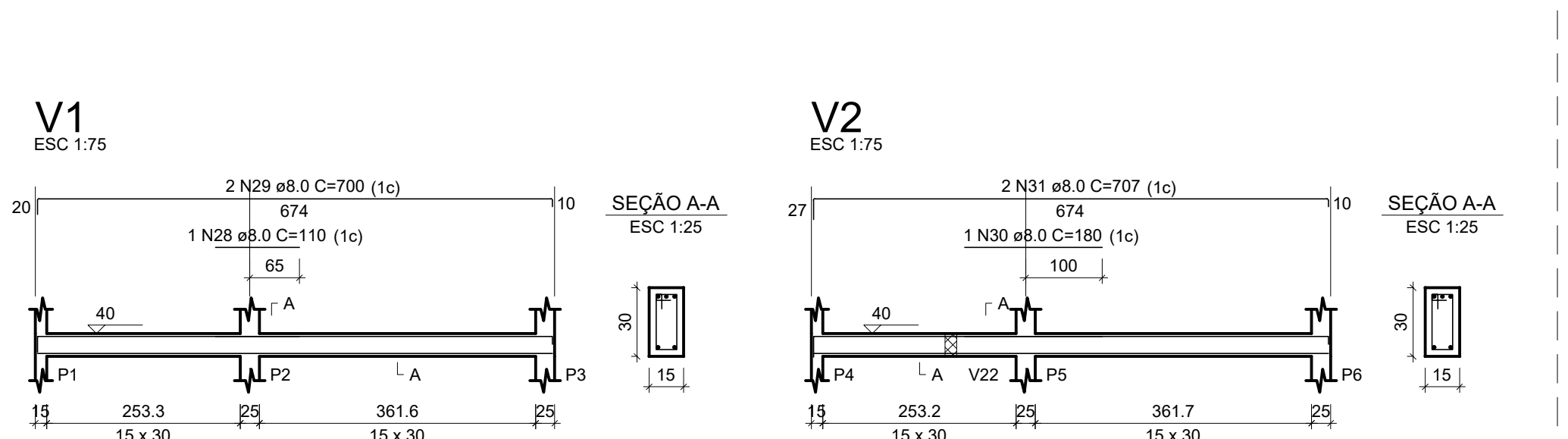


Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kg/m³

P1=P2=P3=P4=P5=P6=P7=P8=
=P9=P10=P11=P13=P14=P16=
=P17=P18=P19=P20=P22=P25=
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=P47=P48=P49=P50=P51=P52



VIGAS TERREO - NIVEL 40



RELAÇÃO DO AÇO

ACO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CASO	2	8.0	926	1	36242
	2	8.0	20	47	940
	4	8.0	6	185	1170
	4	8.0	6	185	1170
	6	8.0	873	77	67221
	6	8.0	32	236	2752
	8	8.0	2	472	944
	10	8.0	2	233	466
	11	8.0	2	233	466
	12	6.3	9	66	594
	13	6.3	9	66	594
	14	8.0	16	109	1744
	15	8.0	16	109	1744
	16	8.0	32	109	3488
	17	8.0	16	109	1744
	18	8.0	120	99	11880
	19	8.0	120	99	11880
	20	8.0	120	99	11880
	21	8.0	120	99	11880
	22	8.0	10	84	840
	23	8.0	10	84	840
	24	8.0	40	94	3760
	25	8.0	35	59	2065
	26	8.0	35	59	2065
	27	8.0	4	110	440
	28	8.0	4	110	440
	29	8.0	4	110	440
	30	8.0	180	180	32400
	31	8.0	180	180	32400
	32	8.0	475	950	45125
	33	8.0	475	950	45125
	34	8.0	162	384	62208
	35	8.0	162	384	62208
	36	8.0	100	400	40000
	37	8.0	100	400	40000
	38	8.0	408	812	331296
	39	8.0	125	300	37500
	40	8.0	249	498	124602
	41	8.0	249	498	124602
	42	8.0	402	603	243846
	43	8.0	402	603	243846
	44	8.0	180	180	32400
	45	8.0	180	180	32400
	46	8.0	841	1682	1411362
	47	8.0	841	1682	1411362
	48	8.0	105	210	22050
	49	8.0	105	210	22050
	50	8.0	154	308	47332
	51	8.0	154	308	47332
	52	8.0	367	734	269158
	53	8.0	367	734	269158
	54	8.0	329	1974	649426
	55	8.0	329	1974	649426
	56	8.0	203	812	164836
	57	8.0	203	812	164836
	58	8.0	268	532	142576
	59	8.0	268	532	142576
	60	8.0	189	1134	214326
	61	8.0	189	1134	214326
	62	8.0	844	3376	2848544
	63	8.0	844	3376	2848544
	64	8.0	952	1904	1812832
	65	8.0	415	830	342450
	66	8.0	155	155	24025
	67	8.0	155	155	24025
	68	8.0	1094	2188	2384872
	69	8.0	1094	2188	2384872
	70	8.0	224	896	200640
	71	8.0	224	896	200640
	72	8.0	453	2718	1231254
	73	8.0	453	2718	1231254
	74	8.0	471	942	442602
	75	8.0	471	942	442602
	76	8.0	504	1008	508032
	77	8.0	504	1008	508032
	78	8.0	113	113	12861
	79	8.0	113	113	12861
	80	8.0	181	362	65502
	81	8.0	181	362	65502
	82	8.0	951	1902	1808462
	83	8.0	951	1902	1808462
	84	8.0	287	574	164738
	85	8.0	287	574	164738
	86	8.0	148	296	43728
	87	8.0	148	296	43728
	88	8.0	197	788	155424
	89	8.0	197	788	155424
	90	8.0	215	430	92450
	91	10.0	208	1040	216320
	92	10.0	4	VAR	VAR
	93	10.0	6	75	450
	94	10.0	30	102	3060
	95	10.0	67	112	7504
	96	10.0	4	606	2424
	97	10.0	2	171	342
	98	10.0	2	170	340

RESUMO DO AÇO

ACO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CASO	6.3	26.1	26.1
	8.0	1313.1	569.9
	10.0	437.4	296.7
CASO	5.0	1099.3	186.4

PESO TOTAL (kg)
CASO 873.6
CASO 186.4

Volume de concreto (C-25) = 18.14 m³
Área de forma = 204.20 m²

NOTAS:
01 - Todas as medidas em centímetros;
02 - Todas as barras em milímetros;
03 - O Cobrimento dos pilares é de 3,0cm.

PROJETO:
U.E DR. BARROSO

PROJETO TIPO: PROJETO DE INFRAESTRUTURA EDUCACIONAL

PROPRIETÁRIO:
NOME DO PROPRIETÁRIO
CPF.:

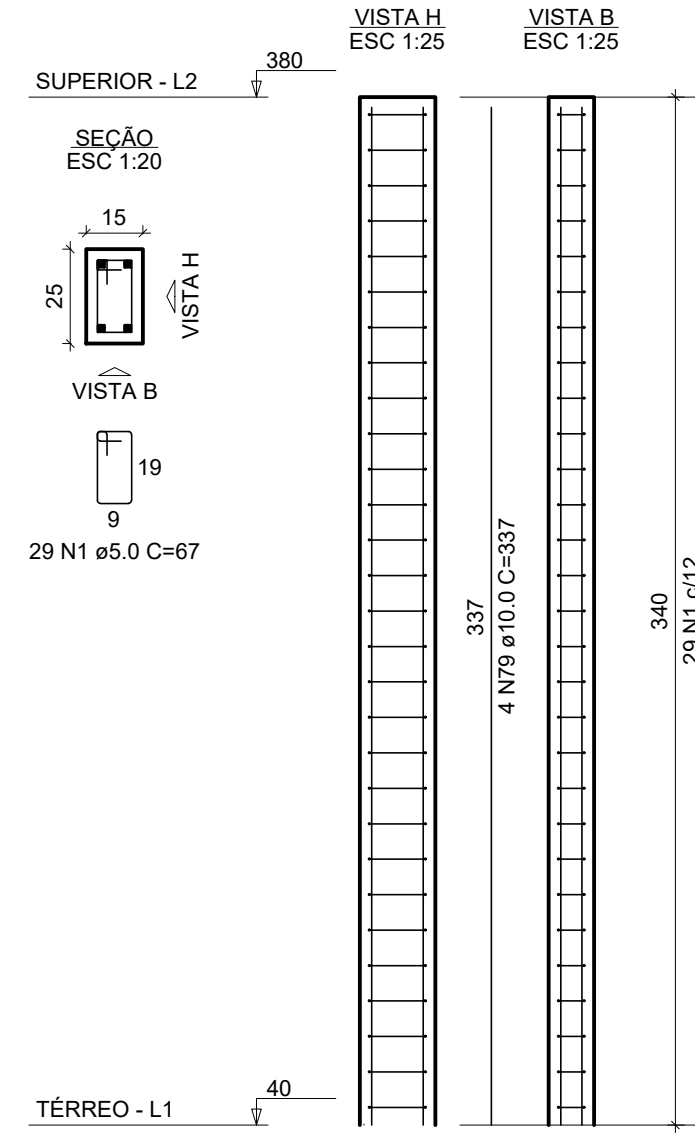
AUTOR DO PROJETO:
PHABULLO HUDSON SOUSA ARAUJO
CREA - 1918962669

RESPONSÁVEL TÉCNICO:
ARQUITETO / ENGENHEIRO
CAU / CREA

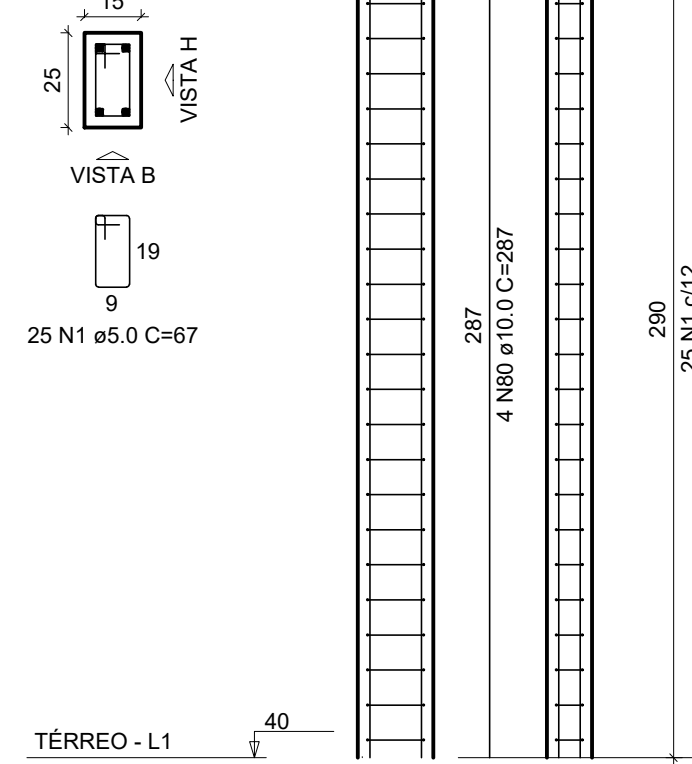
APROVAÇÕES:

OBSERVAÇÕES:

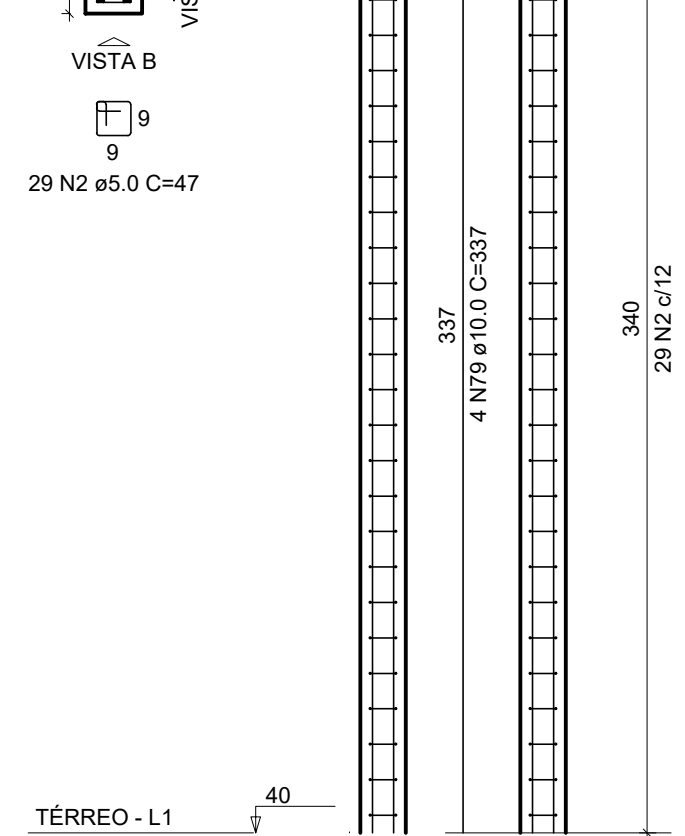
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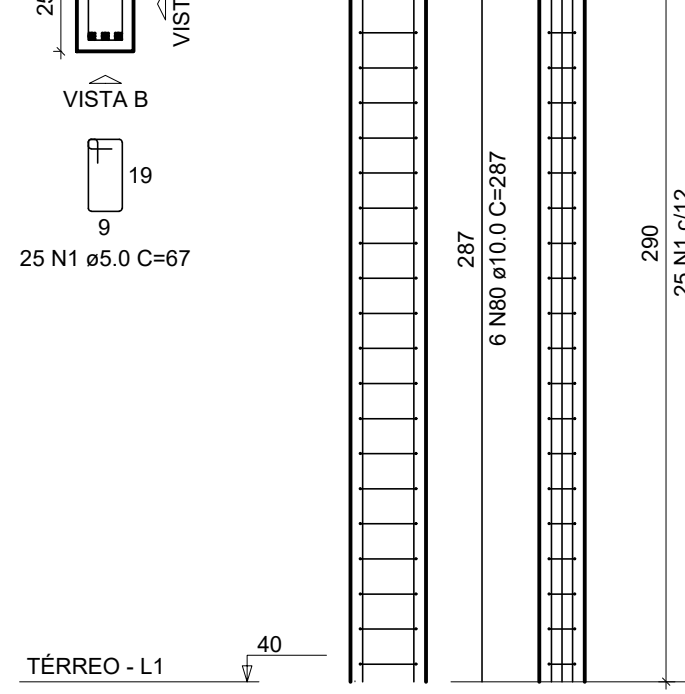
P13=P14=P16=P17=P41=
=P42=P51=P52



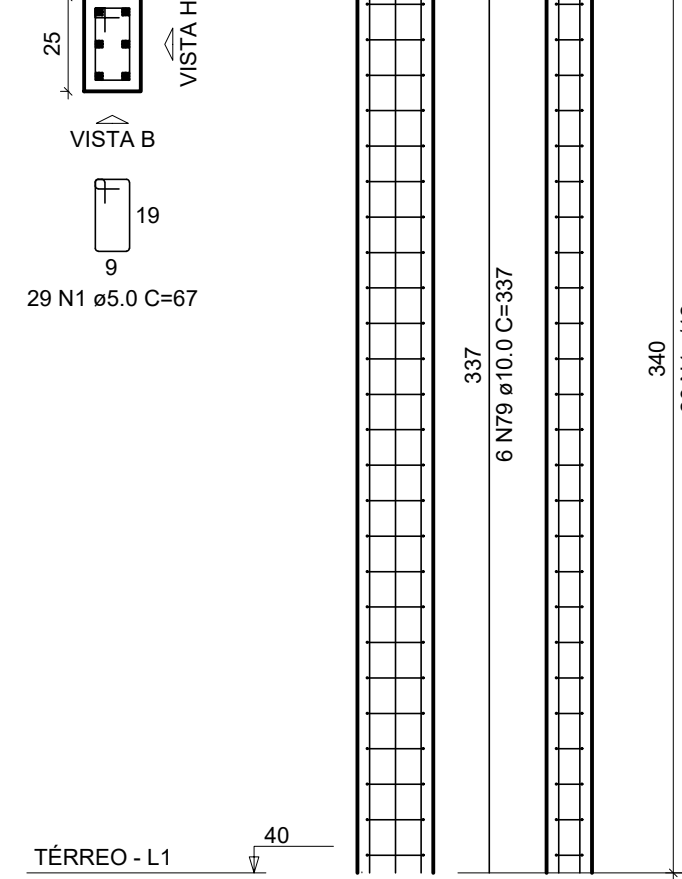
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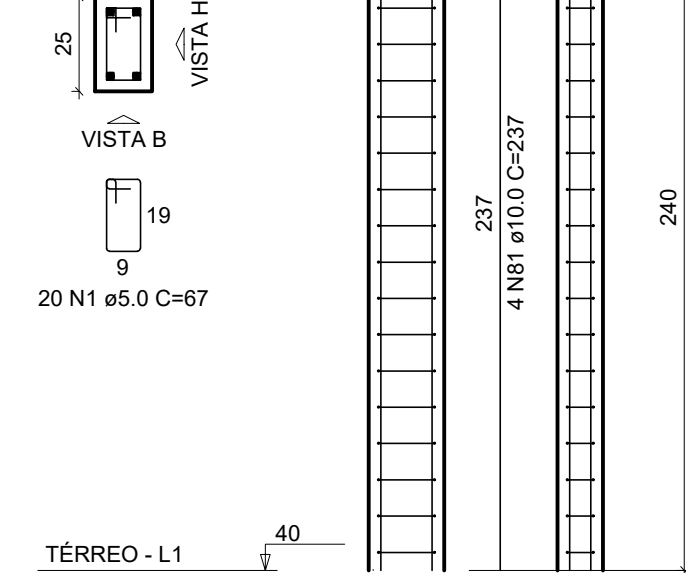
P24



P29=P36=P40



P43=P44=P47=P48



RELAÇÃO DO AÇO

34xP1	8xP13	2xP21
P24	3xP29	4xP43
V1	V2	V3
V4	V5	V6
V7	V8	V9
V10	V11	V12
V13	V14	V15
V16	V17	V18
V19	V20	V21
V22	V23	V24
V25	V26	V27
V28	V29	V30
V31	V32	V33
V34	V35	

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	5.0	2372	97	196024
	2	5.0	28	47	2728
	3	5.0	143	83	8723
	4	8.0	4	674	2696
	5	8.0	4	145	145
	6	8.0	2	711	1422
	7	8.0	2	265	530
	8	8.0	2	719	1438
	9	8.0	2	475	950
	10	8.0	2	497	994
	11	8.0	2	100	400
	12	8.0	4	122	488
	13	8.0	2	162	162
	14	8.0	2	406	812
	15	8.0	2	456	1368
	16	8.0	2	263	526
	17	8.0	2	402	1608
	18	8.0	2	416	832
	19	8.0	2	220	440
	20	8.0	2	430	860
	21	8.0	2	841	1682
	22	8.0	2	384	768
	23	8.0	2	1122	2244
	24	8.0	2	160	480
	25	8.0	2	1122	2244
	26	8.0	2	308	416
	27	8.0	2	848	1696
	28	8.0	2	307	734
	29	8.0	2	1121	2242
	30	8.0	2	190	380
	31	8.0	2	329	1316
	32	8.0	2	371	742
	33	8.0	2	233	466
	34	8.0	2	225	450
	35	8.0	2	238	476
	36	8.0	2	290	580
	37	8.0	2	266	532
	38	8.0	2	135	135
	39	8.0	2	280	560
	40	8.0	2	376	752
	41	8.0	2	189	756
	42	8.0	2	211	844
	43	8.0	2	644	1288
	44	8.0	2	874	1748
	45	8.0	2	854	1708
	46	8.0	2	1068	1968
	47	8.0	2	952	1904
	48	8.0	2	415	830
	49	8.0	2	150	150
	50	8.0	2	210	420
	51	8.0	2	198	396
	52	8.0	2	2396	2396
	53	8.0	2	249	498
	54	8.0	2	234	896
	55	8.0	2	181	1016
	56	8.0	2	453	1812
	57	8.0	2	483	1932
	58	8.0	2	106	212
	59	8.0	2	104	208
	60	8.0	2	136	272
	61	8.0	2	211	422
	62	8.0	2	272	544
	63	8.0	2	181	362
	64	8.0	2	594	1008
	65	8.0	2	181	362
	66	8.0	2	243	486
	67	8.0	2	200	400
	68	8.0	2	951	1902
	69	8.0	2	200	400
	70	8.0	2	167	167
	71	8.0	2	1006	2012
	72	8.0	2	267	534
	73	8.0	2	281	562
	74	8.0	2	148	296
	75	8.0	2	170	340
	76	8.0	2	137	274
	77	8.0	2	219	438
	78	8.0	2	162	324
	79	8.0	2	287	574
	80	10.0	38	287	10936
	81	10.0	16	224	3584
	82	10.0	2	167	167
	83	10.0	2	171	171
	84	10.0	2	174	348

NOTAS:
01 - Todas as medidas em centímetros;
02 - Todas as bilas em milímetros;
03 - O Cobrimento dos pilares é de 3,0cm.

VIGAS SUPERIOR - NIVEL 340

