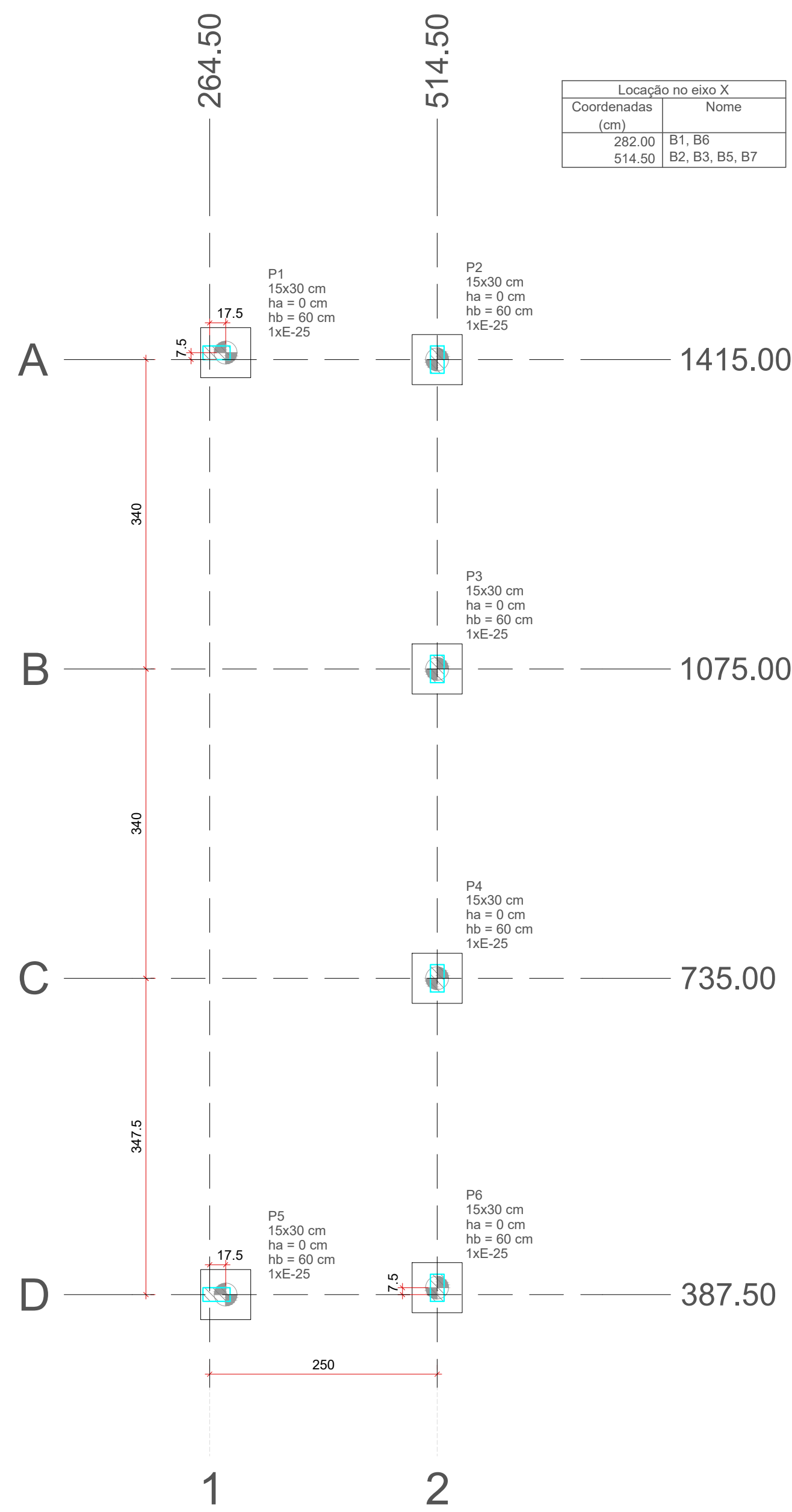
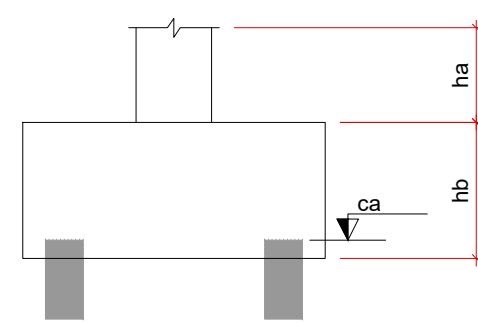
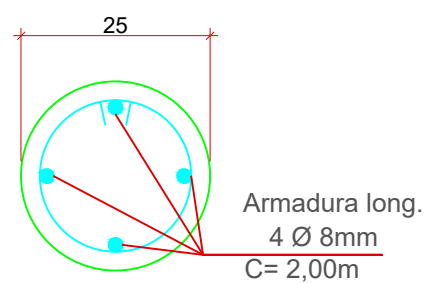




Planta de localização
escala 1:50



Estacas			
Simbologia	Nome	d (cm)	Quantidade
	E-25	25.00	6



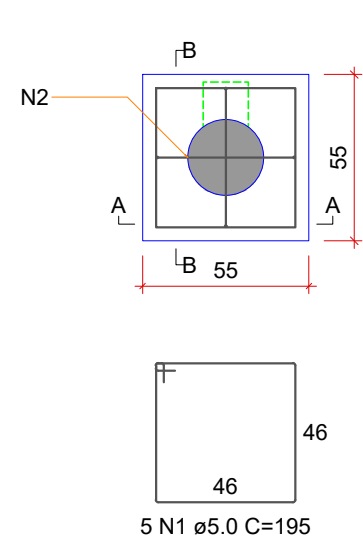
DETALHAMENTO ESTACAS

Sem Escala

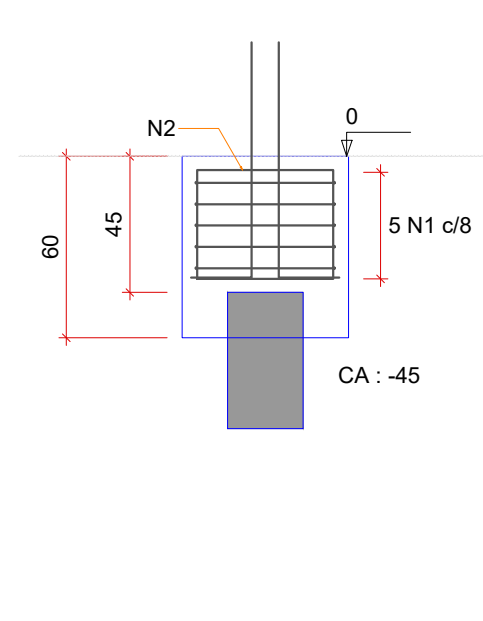
Localização no eixo X	
Coordenadas (cm)	Nome
282.00	B1, B6
514.50	B2, B3, B5, B7

Localização no eixo Y	
Coordenadas (cm)	Nome
1422.50	B1
1415.00	B2
1075.00	B3
735.00	B5
395.00	B7
387.50	B6

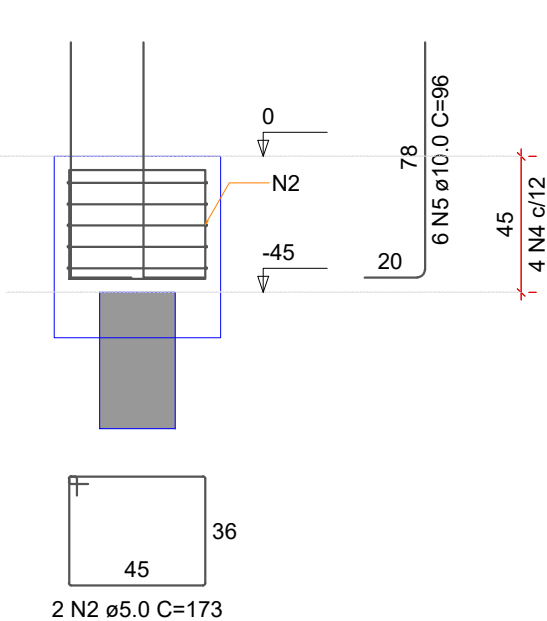
B1
1xE-25
PLANTA
ESC 1:25



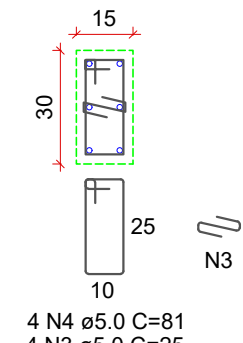
CORTE A-A
ESC 1:25



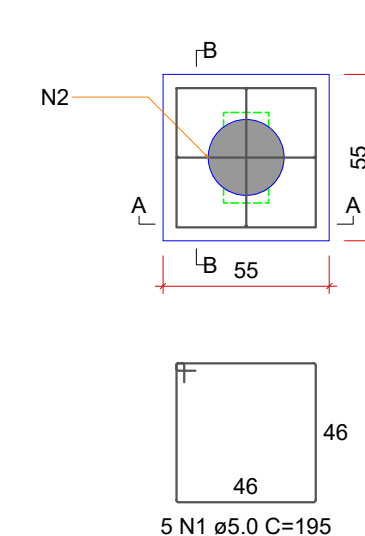
CORTE B-B
ESC 1:25



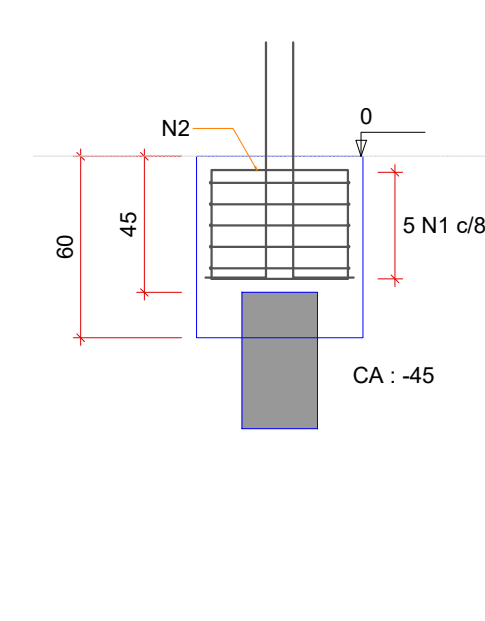
DETALHE DO PILAR
ESC 1:20



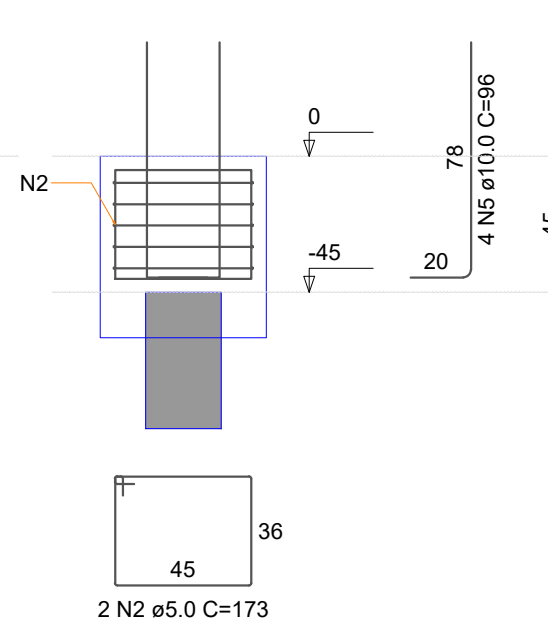
B2
1xE-25
PLANTA
ESC 1:25



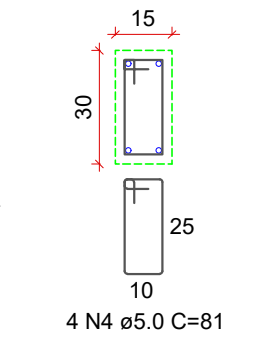
CORTE A-A
ESC 1:25



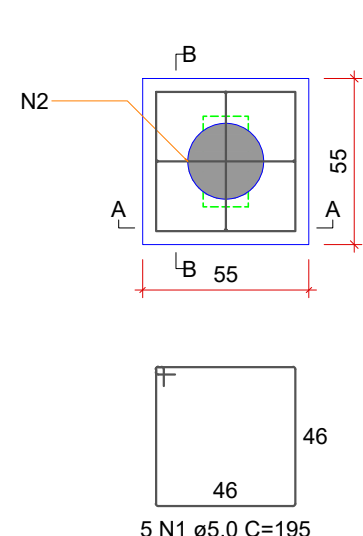
CORTE B-B
ESC 1:25



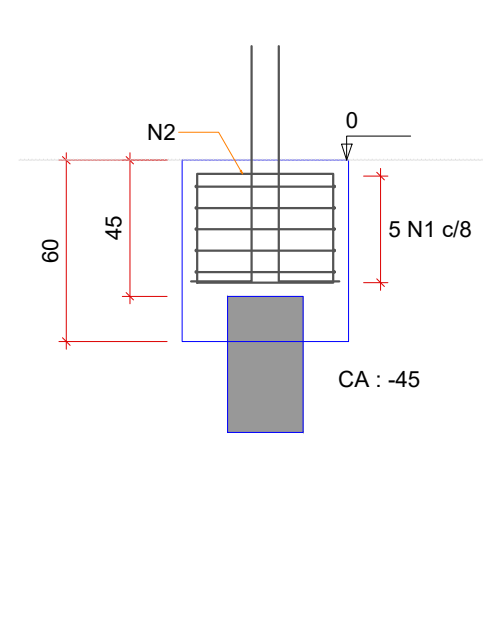
DETALHE DO PILAR
ESC 1:20



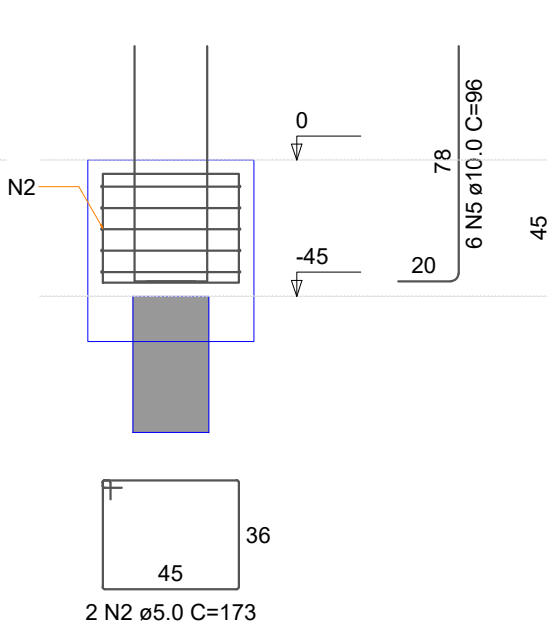
B3
1xE-25
PLANTA
ESC 1:25



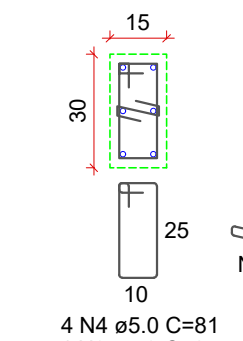
CORTE A-A
ESC 1:25



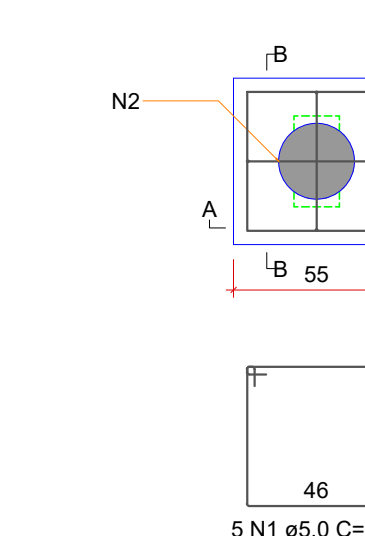
CORTE B-B
ESC 1:25



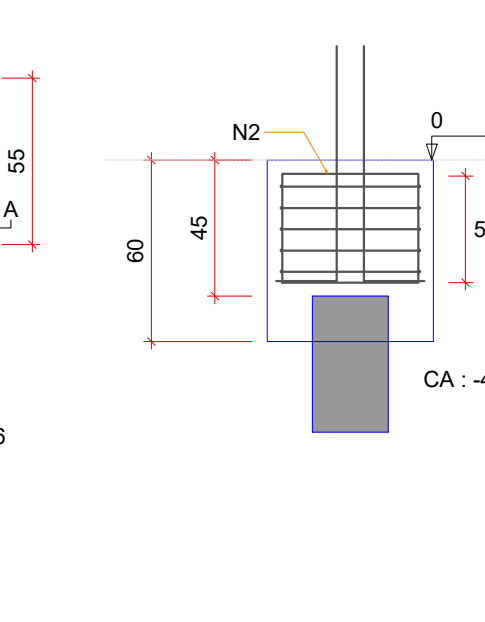
DETALHE DO PILAR
ESC 1:20



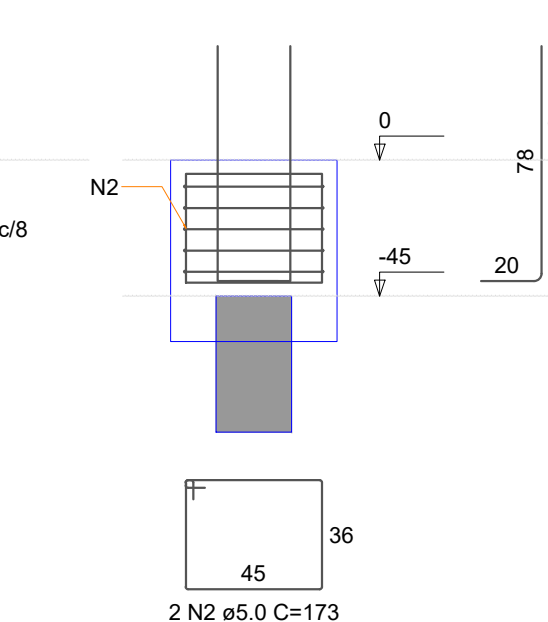
B4
1xE-25
PLANTA
ESC 1:25



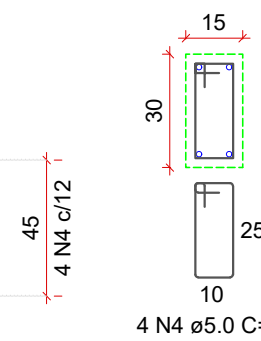
CORTE A-A
ESC 1:25



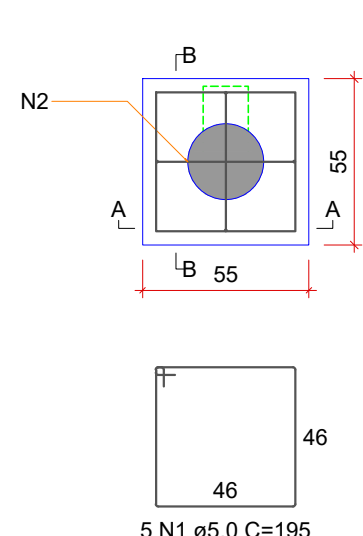
CORTE B-B
ESC 1:25



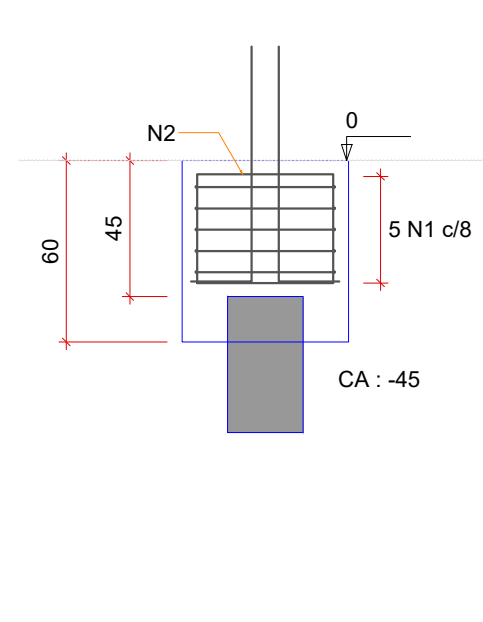
DETALHE DO PILAR
ESC 1:20



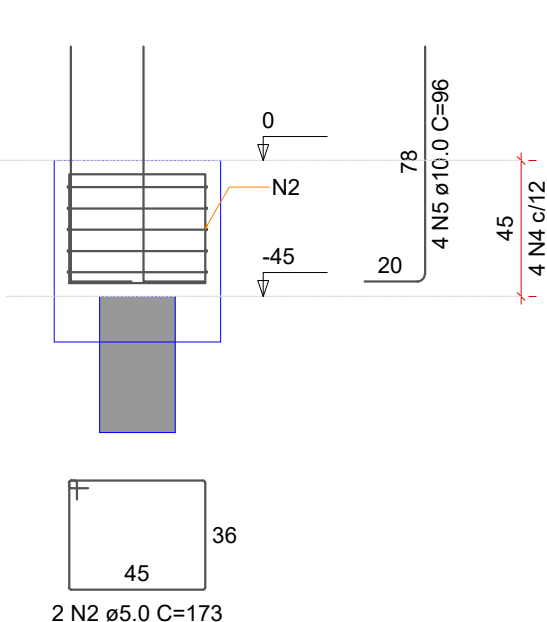
B5
1xE-25
PLANTA
ESC 1:25



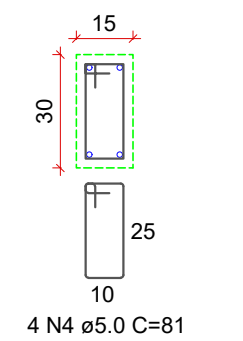
CORTE A-A
ESC 1:25



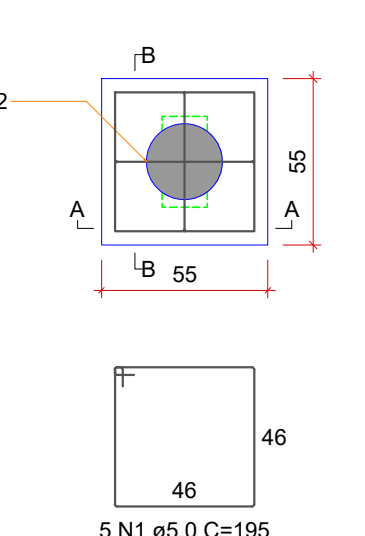
CORTE B-B
ESC 1:25



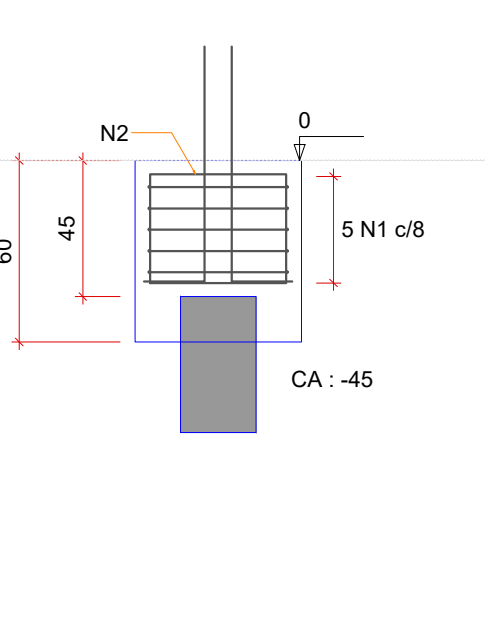
DETALHE DO PILAR
ESC 1:20



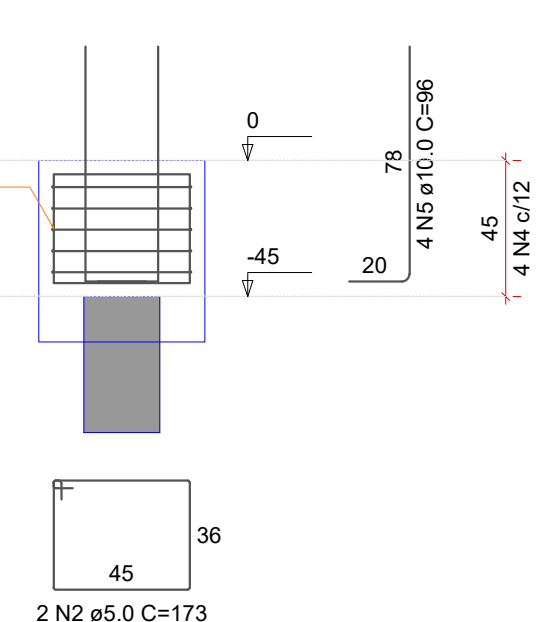
B6
1xE-25
PLANTA
ESC 1:25



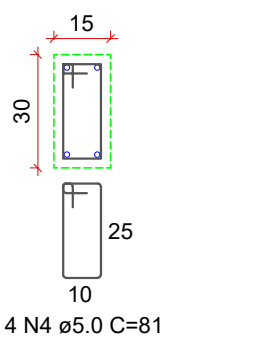
CORTE A-A
ESC 1:25



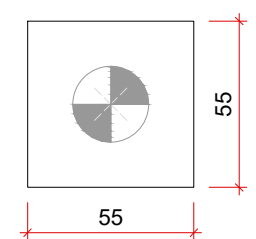
CORTE B-B
ESC 1:25



DETALHE DO PILAR
ESC 1:20



B1=B2=B3=B4=B5=B6
B7 (1xE-25)



RELAÇÃO DO AÇO BLOCOS DE FUNDAÇÃO

B1 B4		B2 B5		B3 B6	
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	30	195	5850
	2	5.0	12	173	2076
	3	5.0	8	25	200
	4	5.0	24	81	1944
CA50	5	10.0	28	96	2688

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	26.9	18.2
CA60	5.0	100.7	17.1
PESO TOTAL (kg)			
CA50		18.2	
CA60		17.1	

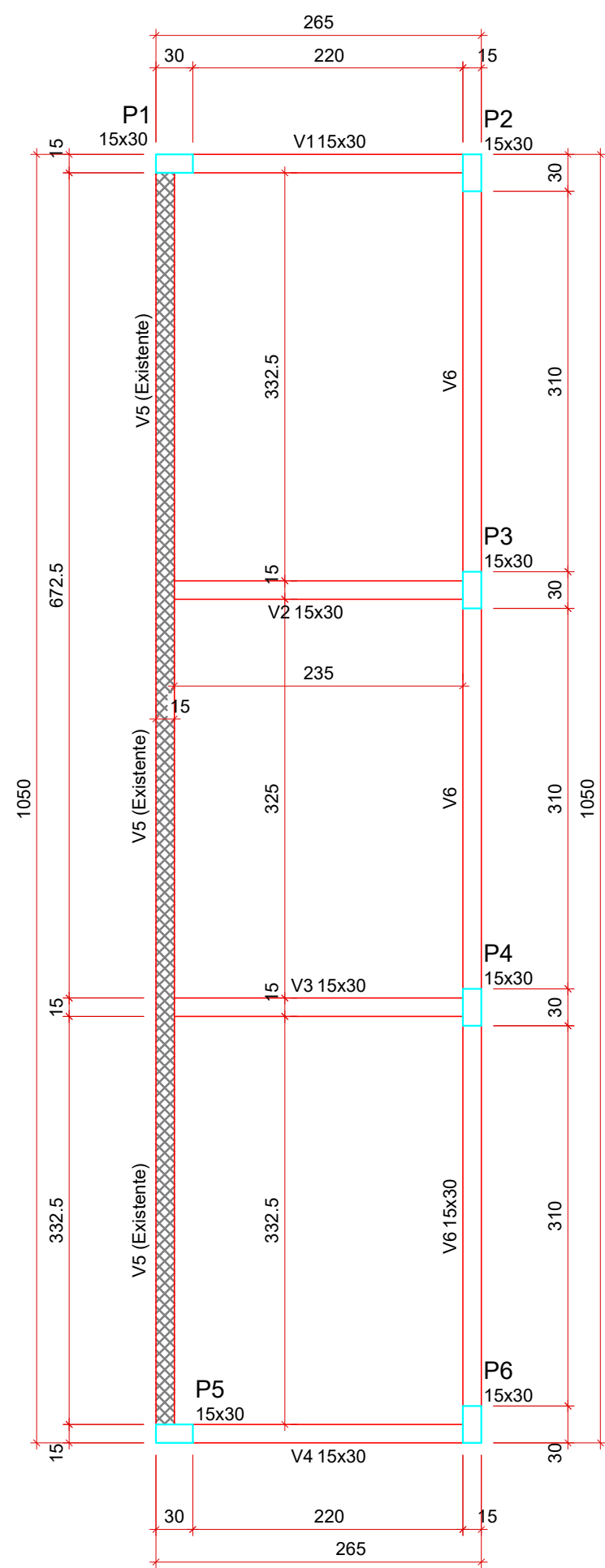
Volume de concreto (C-25) = 1.04 m³
Área de forma = 7.92 m²

Resumo de materiais - Estacas				
Resumo do Aço				
Aço	Diâmetro (mm)	Comprimento total (m)	Barras	Peso +10% (kg)
CA50	8.0	48	4	23.17
CA60	5.0	45	3.75	8.38
Volume de concreto (C-25) = 0.73m³				

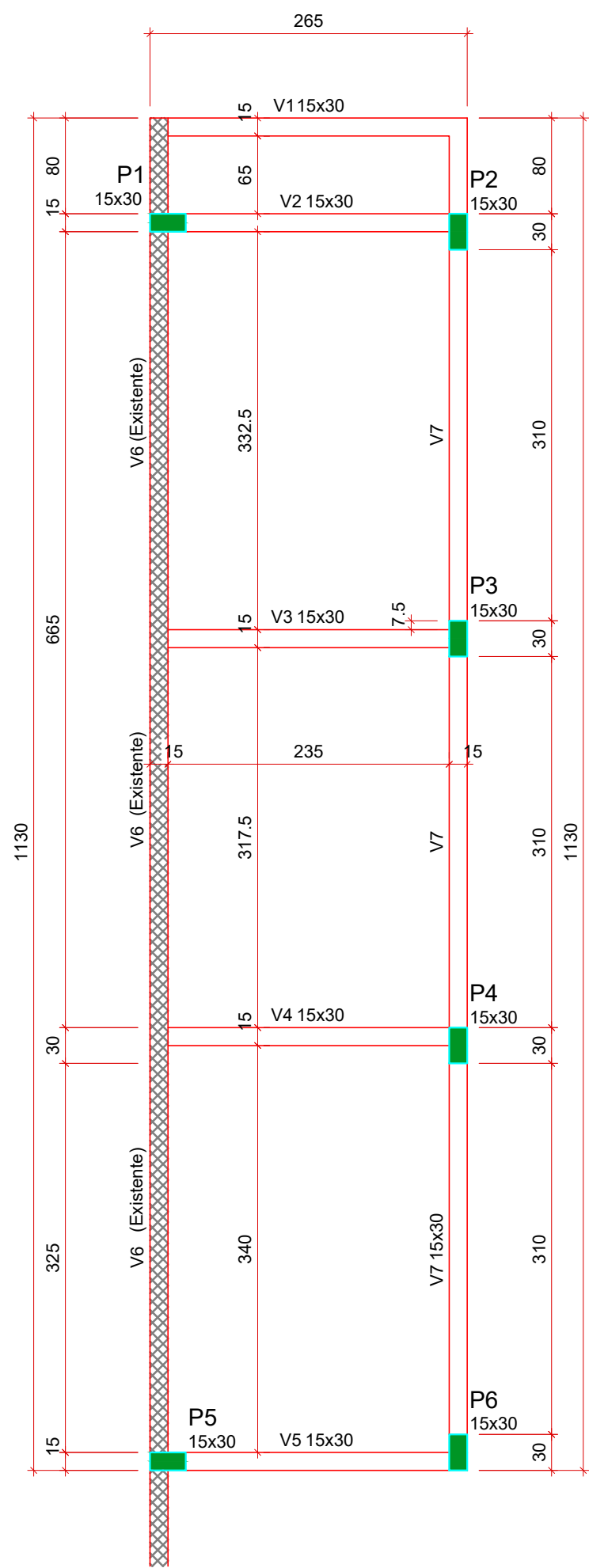
Legenda dos blocos

escala 1:25

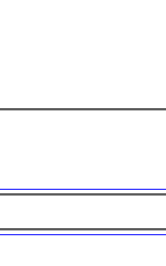
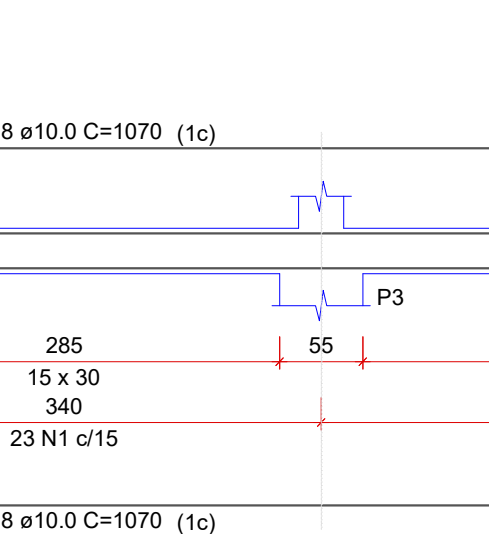
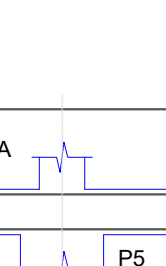
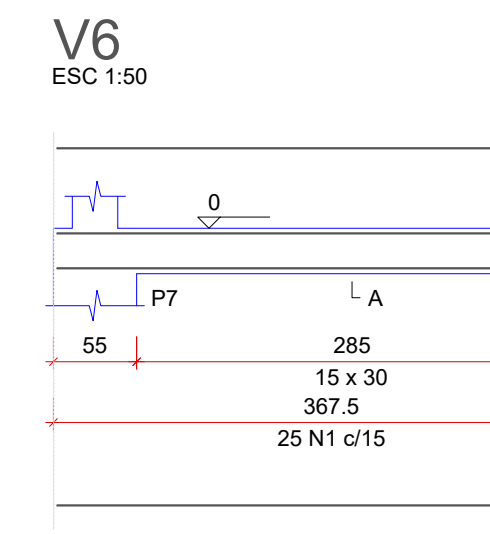
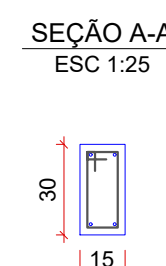
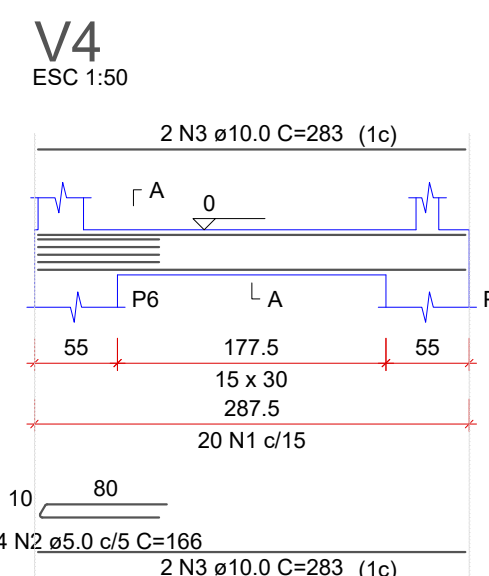
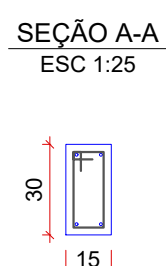
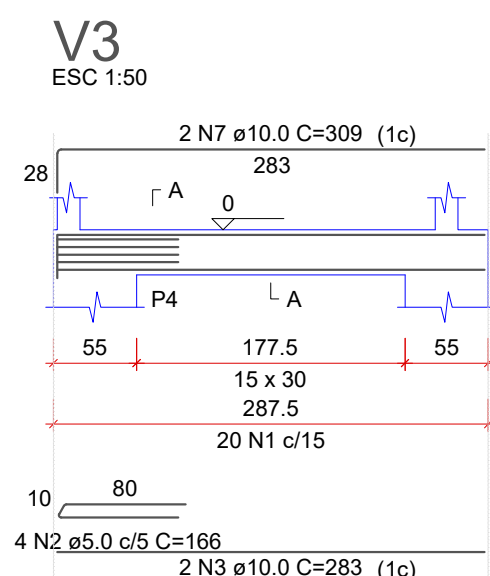
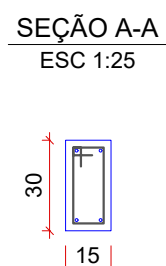
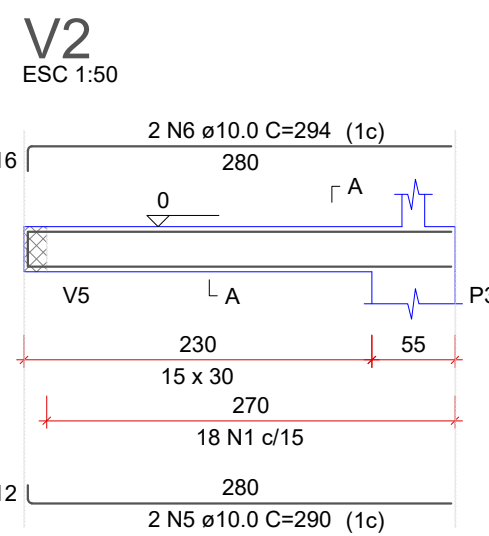
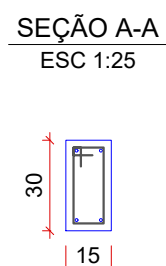
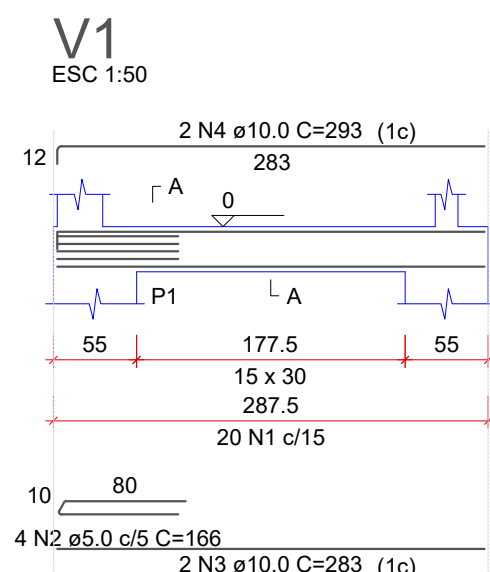
	AMPLIAÇÃO COZINHA ESCOLA ANTÔNIO BABY
Cidade: Bituruna	Projeto: ESTRUTURAL
Estado: Paraná	Referência: FUNDAÇÕES
Desenho: Bruna	Locação, Detalhamento de Blocos e Estacas
Escola: Indicada	Folha: 01/02
Data: OUTUBRO/2025	Responsável Técnico: LUIZ RENATO FRIEDRICH DE RAMOS Engº Civil CREA 168233/D - PR



Forma do pavimento Térreo (Nível 0)
escala 1:50



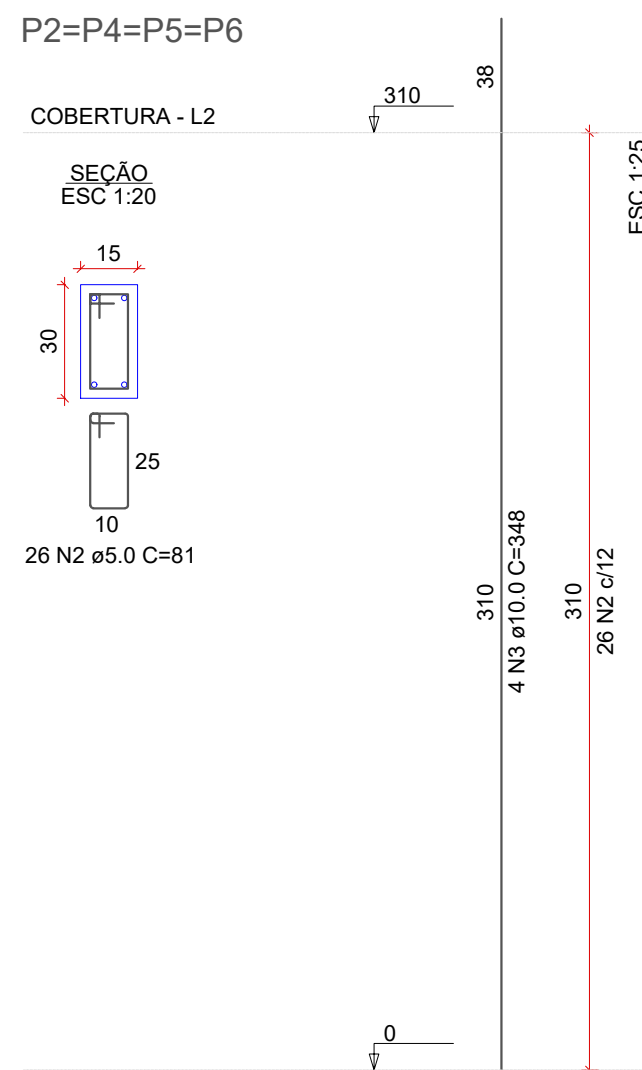
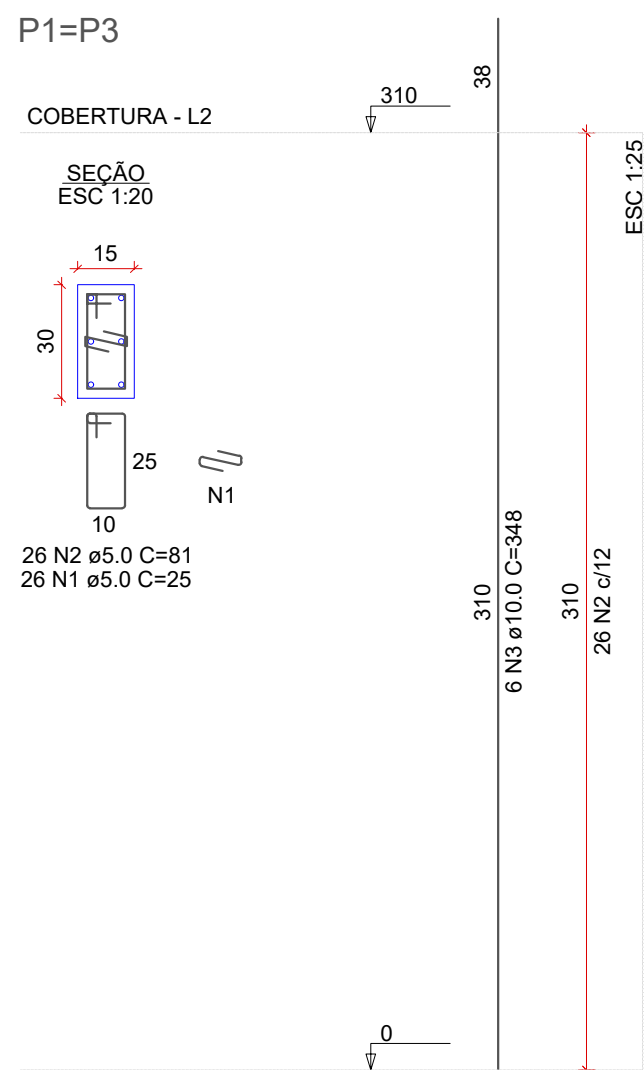
Forma do pavimento Cobertura (Nível 310)
escala 1:50



RELAÇÃO DO AÇO VIGAS TÉRREO				
AÇO	N	DIAM (mm)	QUANT	C.TOTAL (cm)
CA60	1	5.0	151	81
CA50	2	5.0	12	166
	3	10.0	8	283
	4	10.0	2	293
	5	10.0	2	290
	6	10.0	2	294
	7	10.0	2	309
	8	10.0	4	1070

RESUMO DO AÇO			
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	89.2	60.5
CA60	5.0	142.2	24.1
PESO TOTAL (kg)			
CA50		60.5	
CA60		24.1	

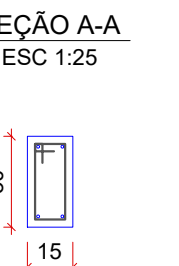
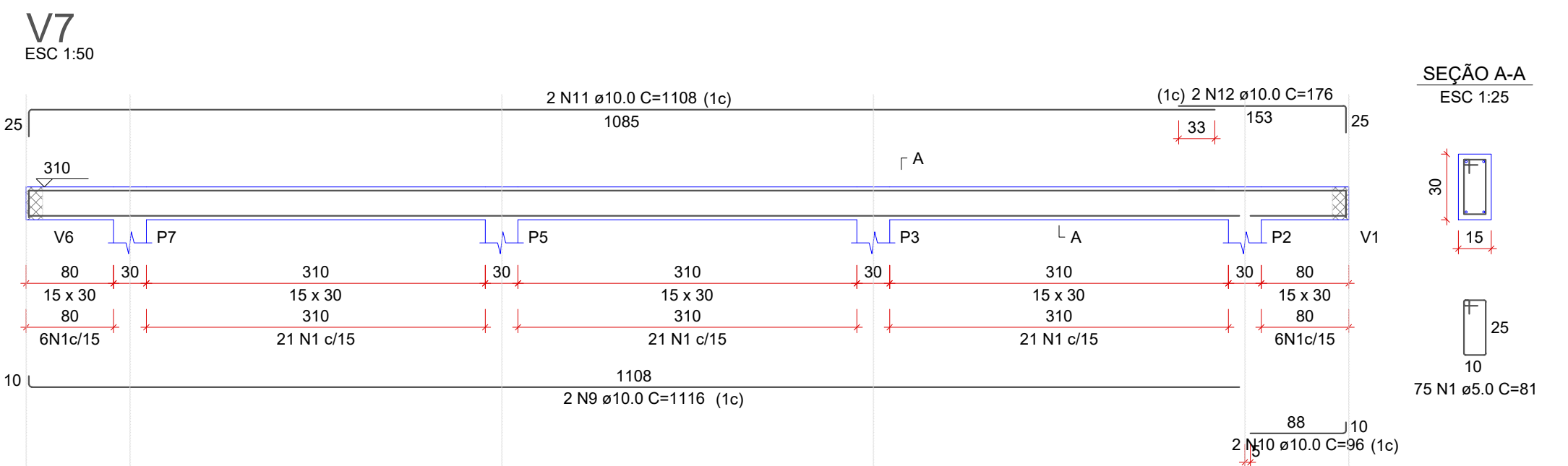
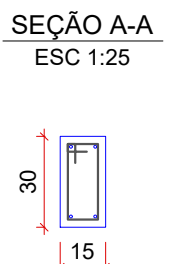
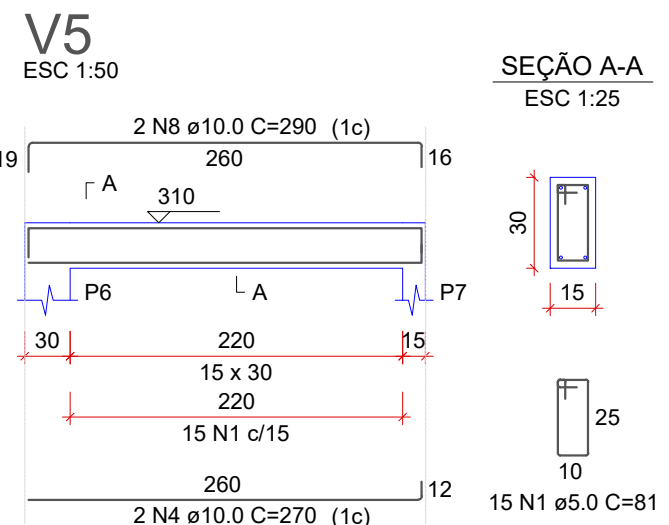
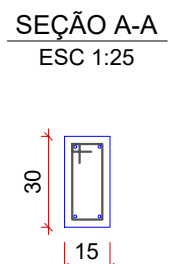
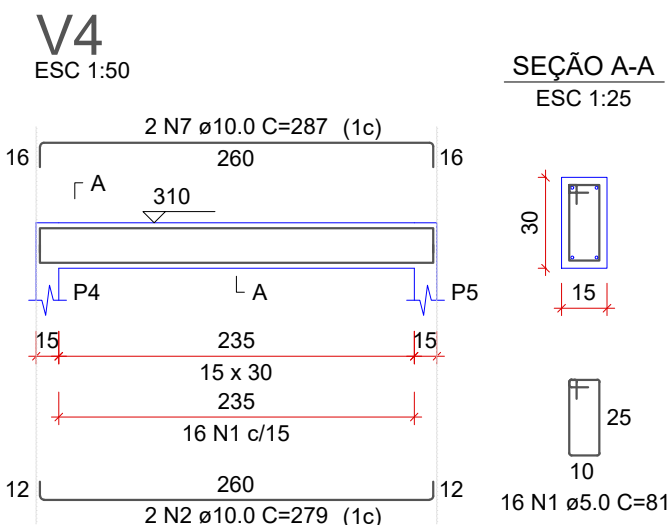
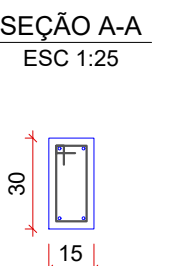
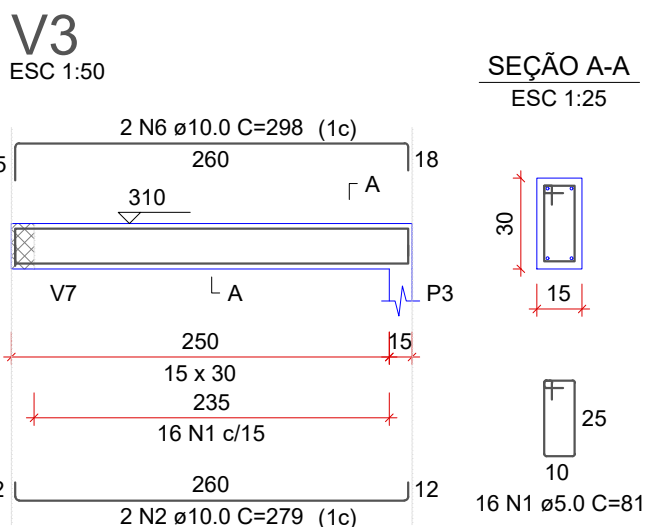
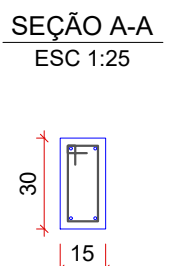
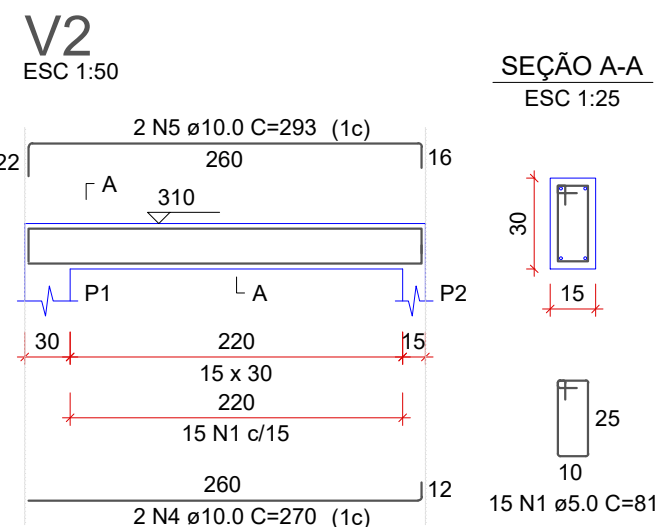
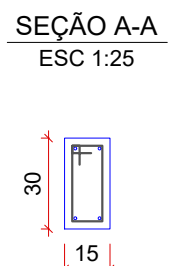
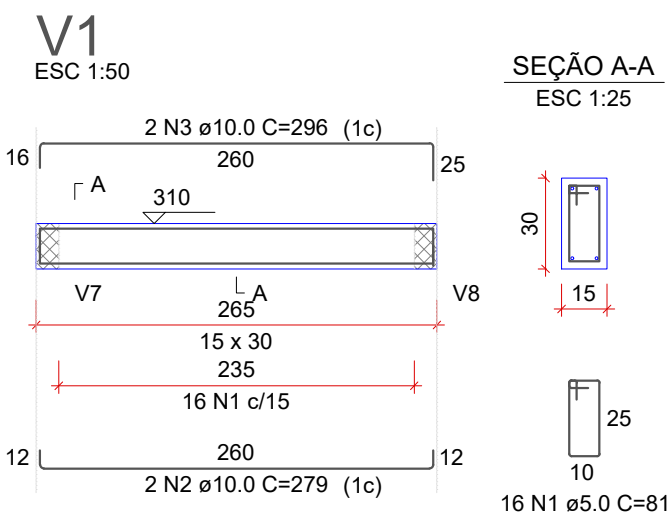
Volume de concreto (C-25) = 0.73 m³
Área de forma = 12.13 m²



RELAÇÃO DO AÇO PILARES					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	52	25	1300
CA50	2	5.0	156	81	12636
CA50	3	10.0	28	348	9744

RESUMO DO AÇO			
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	97.4	66.1
CA60	5.0	139.4	23.6
PESO TOTAL (kg)			
CA50		66.1	
CA60		23.6	

Volume de concreto (C-25) = 0.84 m³
Área de forma = 16.74 m²



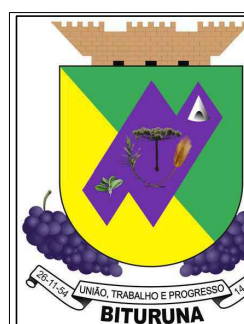
RELAÇÃO DO AÇO VIGAS COBERTURA					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	169	81	13689
CA50	2	10.0	6	279	1674
	3	10.0	2	296	592
	4	10.0	6	270	1620
	5	10.0	2	283	586
	6	10.0	2	298	596
	7	10.0	4	287	1148
	8	10.0	2	290	580
	9	10.0	2	1116	2232
	10	10.0	2	96	192
	11	10.0	2	1108	2216
	12	10.0	2	176	352

RESUMO DO AÇO			
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	111.77	79.9
CA60	5.0	123.94	23.2
PESO TOTAL (kg)			
CA50		79.9	
CA60		23.2	

Volume de concreto (C-25) = 1.12 m³
Área de forma = 18.64 m²

Legenda dos pilares	
	Pilar que nasce
	Pilar que passa
	Pilar que morre

Legenda das vigas e paredes	
	Viga
	Viga existente



**AMPLIAÇÃO COZINHA
ESCOLA ANTÔNIO BABY**

Projeto:

ESTRUTURAL

Cidade: **Bituruna**

Estado: **Paraná**

Desenho: **Bruna**

Escola: **Indicada**

Data: **OUTUBRO/2025**

Referência:

**TÉRREO, COBERTURA E PILARES
Planta de formas, Vigas e Pilares**

Folha:

02

Responsável Técnico:

LUIZ RENATO FRIEDRICH DE RAMOS
Engº Civil CREA 168233/D - PR