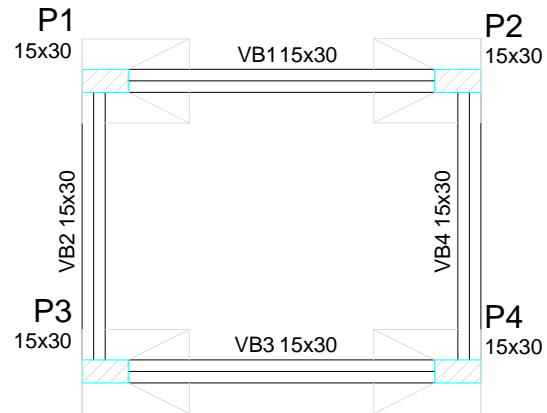
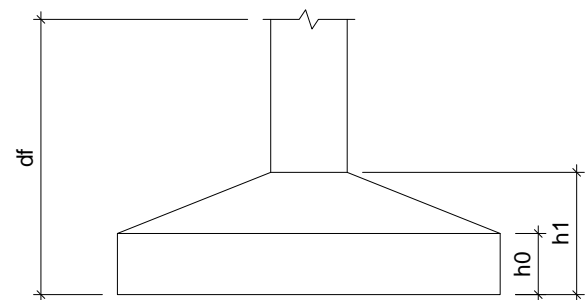


Planta de localização
escala 1:50

Pilar										Fundação					
Nome	Seção (cm)	X (cm)	Y (cm)	Carga Máx. (tf)	Carga Min. (tf)	Mx (kgf.m)	My (kgf.m)	Fx (tf)	Fy (tf)	Lado B (cm)	Lado H (cm)	h0 / ha (cm)	h1 / hb (cm)	df (cm)	
P1	15x30	15.00	197.45	2.6	2.2	0	0	0.2	0.2	70	55	20	30	70	
P2	15x30	245.50	197.50	2.6	2.2	0	0	0.2	0.2	70	55	20	30	70	
P3	15x30	15.00	7.50	2.6	2.2	0	0	0.2	0.2	70	55	20	30	70	
P4	15x30	245.50	7.50	2.6	2.2	0	0	0.2	0.2	70	55	20	30	70	



Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
VB1	15x30	0	0
VB2	15x30	0	0
VB3	15x30	0	0
VB4	15x30	0	0

Características dos materiais		
fck (kgf/cm²)	Ecs (kgf/cm²)	Abatimento (cm)
250	214200	5.00

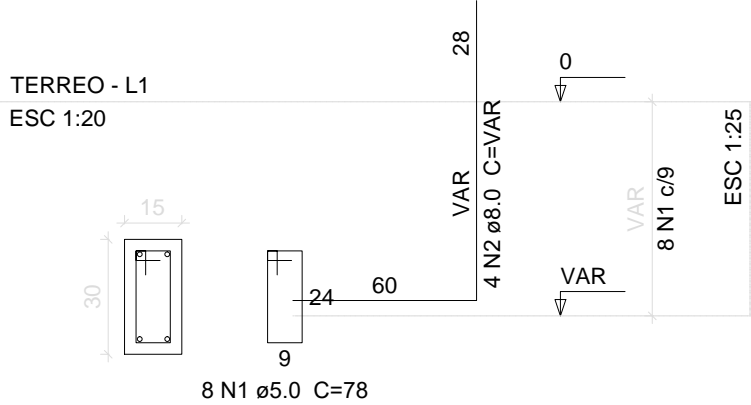
Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	15 x 30	0	0
P2	15 x 30	0	0
P3	15 x 30	0	0
P4	15 x 30	0	0

Legenda dos Pilares			
	Pilar que morre		
	Pilar que passa		
	Pilar que nasce		
	Pilar com mudança de seção		

Forma do pavimento terreo

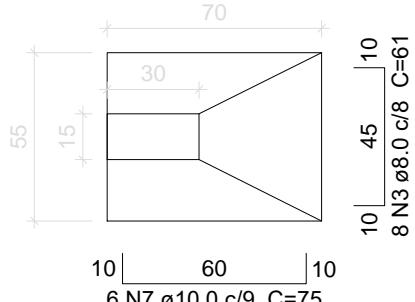
escala 1:50

P1=P2=P3=P4

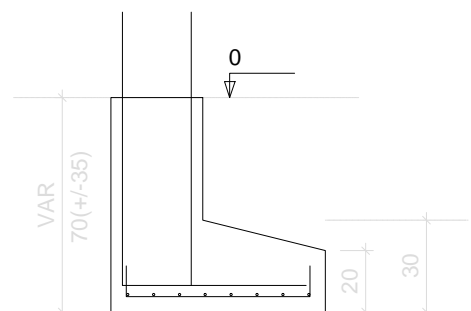


S1=S2=S3=S4
PLANTA
ESC 1:25

CORTE
ESC 1:25

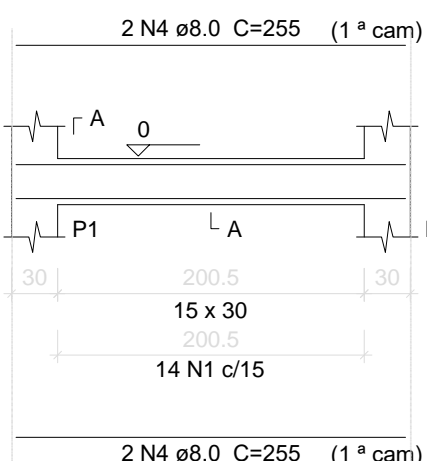


Solo com capacidade de suporte > 4.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 2100.00 kgf/m³

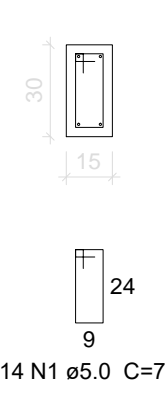


VB1

ESC 1:50

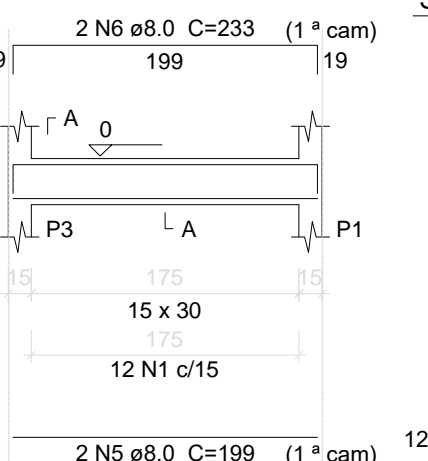


SEÇÃO A-A
ESC 1:25

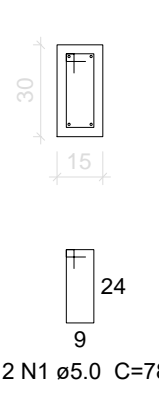


VB2

ESC 1:50

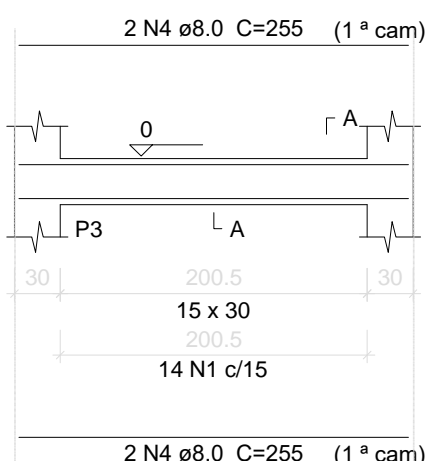


SEÇÃO A-A
ESC 1:25

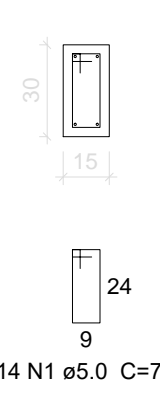


VB3

ESC 1:50

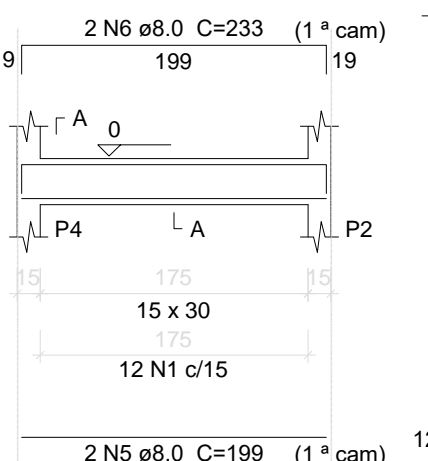


SEÇÃO A-A
ESC 1:25

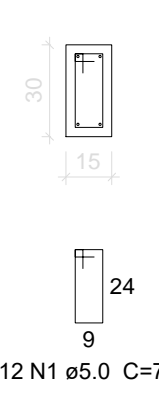


VB4

ESC 1:50



SEÇÃO A-A
ESC 1:25



Relação do aço

4xS1 VB3		VB1 VB4		VB2	
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	84	78	6552
CA50	2	8.0	16	VAR	VAR
	3	8.0	32	61	1952
	4	8.0	8	255	2040
	5	8.0	4	199	796
	6	8.0	4	233	932
	7	10.0	24	75	1800

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	82.2	35.7
CA60	10.0	18	12.2
PESO TOTAL	5.0	65.6	11.1

Vol. de concreto total (C-25) = 0.93 m³
Área de forma total = 11.72 m²

Relação do aço

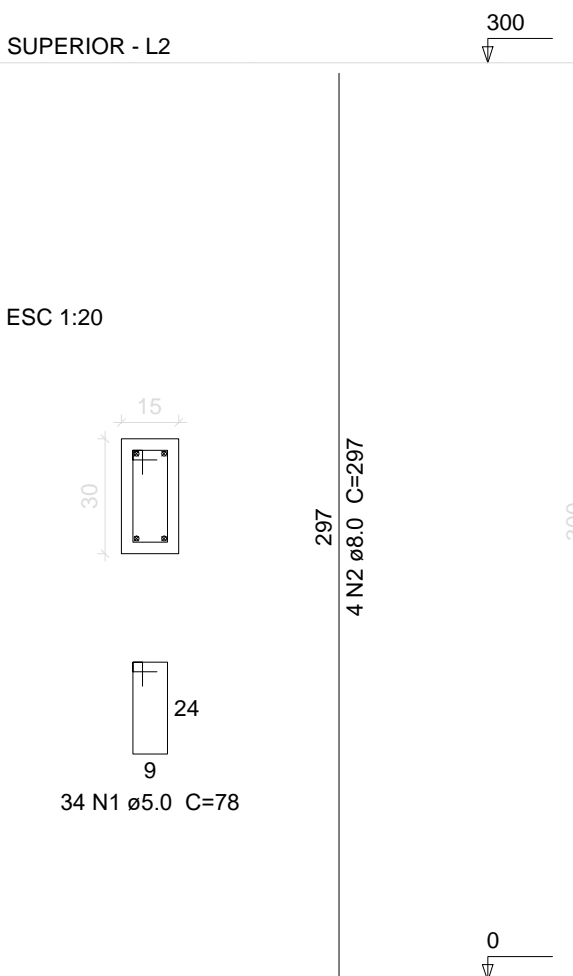
4xP1 VS3		VS1 VS4		VS2	
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	188	78	14664
CA50	2	8.0	16	297	4752
	3	8.0	4	255	1020
	4	8.0	4	289	1156
	5	8.0	4	199	796
	6	8.0	4	233	932

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	86.6	37.6
CA60	5.0	146.7	24.9
PESO TOTAL			

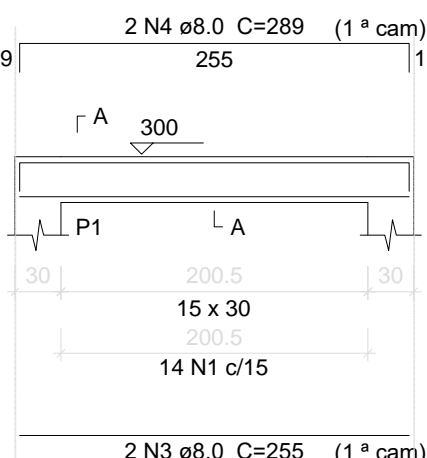
Vol. de concreto total (C-25) = 0.96 m³
Área de forma total = 17.78 m²

P1=P2=P3=P4

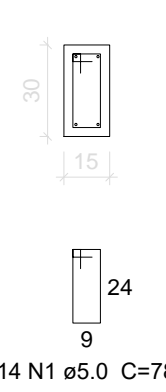


VS1

ESC 1:50

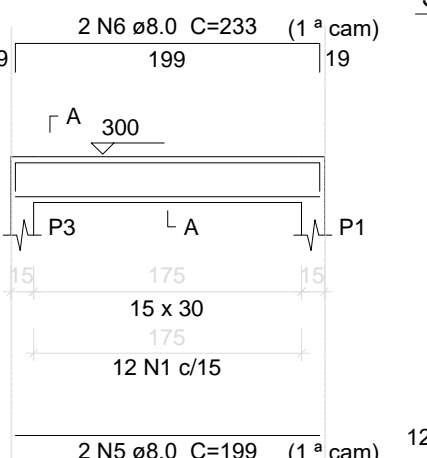


SEÇÃO A-A
ESC 1:25

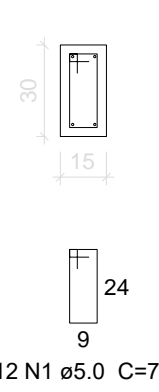


VS2

ESC 1:50

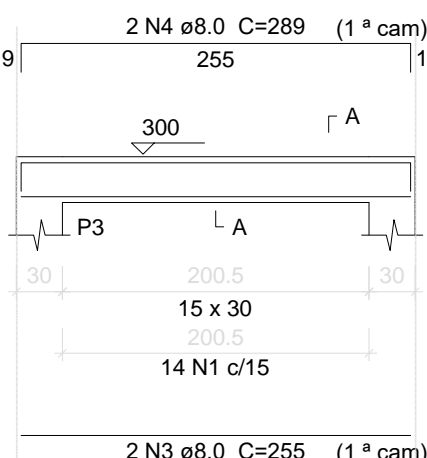


SEÇÃO A-A
ESC 1:25

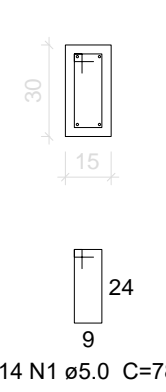


VS3

ESC 1:50

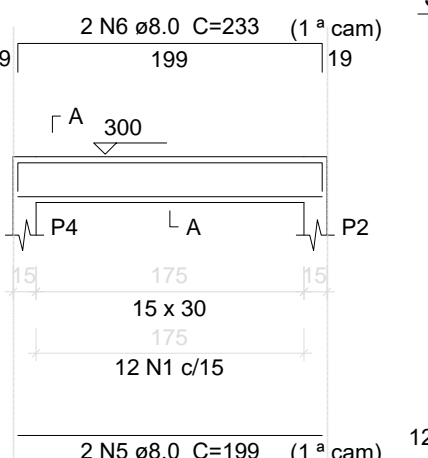


SEÇÃO A-A
ESC 1:25

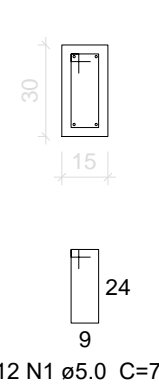


VS4

ESC 1:50



SEÇÃO A-A
ESC 1:25



TÍTULO: PROJETO ESTRUTURAL SANITÁRIO QUARTEL				
ENDEREÇO OBRA : ENGENHEIRO NAVARRO—MG				
PROPRIETÁRIO: PREFEITURA MUNICIPAL DE ENGENHEIRO NAVARRO	M.A.	ZC	T. OCUP.: % C. APROV.: 21/02/2022	ESCALA: INDICADA 21/02/2022
R.T. Jonas Leite Ferreira Júnior CREA MG196418/D	ÁREA DO TERRENO:		PROJETO PESTRUTURAL	
CONTEÚM: DETALHAMENTO	ÁREA CONSTRUÍDA		QUADRA	PRANCHAS 01/02