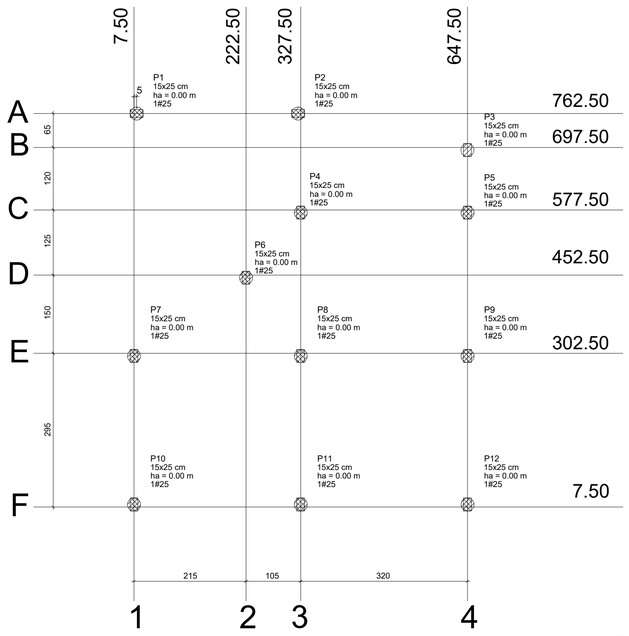
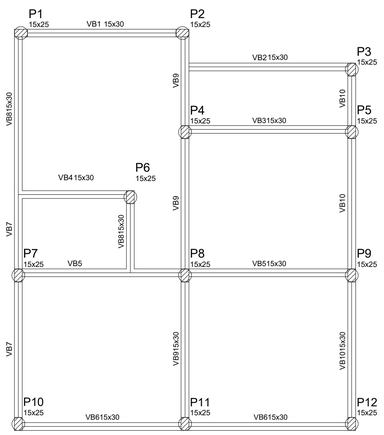


Planta de locação

escala 1:50



Forma do pavimento TERREO

escala 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível
VB1	15x30	00	
VB2	15x30	00	
VB3	15x30	00	
VB4	15x30	00	
VB5	15x30	00	
VB6	15x30	00	
VB7	15x30	00	
VB8	15x30	00	
VB9	15x30	00	
VB10	15x30	00	

Características dos materiais

fckEcs (MPa)(MPa)	
2523800	

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível
P1	15 x 25	00	
P2	15 x 25	00	
P3	15 x 25	00	
P4	15 x 25	00	
P5	15 x 25	00	
P6	15 x 25	00	
P7	15 x 25	00	
P8	15 x 25	00	
P9	15 x 25	00	
P10	15 x 25	00	
P11	15 x 25	00	
P12	15 x 25	00	

Legenda dos Pilares

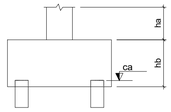
- Pilar que morre
- Pilar que passa
- Pilar que nasce
- Pilar com mudança de seção

Pilar									Fundação				Bloco		
Nome	Seção (cm)	XY (cm)		Carga Máx. (kN)	Carga Mín. (kN)	Mx (kN.m)	My (kN.m)	Fx (cm)	Fy (cm)	Lado B (m)	Lado H (m)	h0 / ha (cm)	h1 / hb (cm)	Base tub. (cm)		
P1	15x25	7	50762.50	37	31	11		3	4			0.00		1	250.00	80
P2	15x25	27	50762.50	38	33	1134						0.00		1	250.00	80
P3	15x25	647.50	697.50	24	18	1221						0.00		1	250.00	65
P4	15x25	327.50	577.50	37	33	11		3	1			0.00		1	250.00	75
P5	15x25	647.50	577.50	28	23	1122						0.00		1	250.00	70
P6	15x25	222.50	452.50	26	22	11		3	2			0.00		1	250.00	70
P7	15x25	7.50	302.50	54	49	2124						0.00		1	250.00	85
P8	15x25	327.50	302.50	56	54	1121						0.00		1	250.00	80
P9	15x25	647.50	302.50	38	34	1121						0.00		1	250.00	70
P10	15x25	7.50	7.50	26	22	1122						0.00		1	250.00	65
P11	15x25	327.50	7.50	43	39	1122						0.00		1	250.00	70
P12	15x25	647.50	7.50	27	23	1122						0.00		1	250.00	65

ESTACAS	
de (cm)	Quantidade
25	12

Locação no eixo X	
Coordenadas (cm)	Nome
7.50	P1 , P7, P10
222.50	P6
327.50	P2, P4, P8, P11
647.50	P3, P5, P9, P12

Locação no eixo Y	
Coordenadas (cm)	Nome
762.50	P1, P2
697.50	P3
577.50	P4, P5
452.50	P6
302.50	P7, P8, P9
7.50	P10, P11, P12





Relação do aço

COBERTURA: 11xP1
TERREO: P1 10xP2
VB1 VB2
VB3 VB4
VB5 VB6
VB7 VB8
VB9 VB10

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	4076	827676	
	2	5.0	2787	821684	
CA50	38.0		4	32	1316
	4	8.0	2	33	7674
	58.0		2	36	6732
	68.0		2	23	2464
	78.0	2268	536		
	88.0		4	64	92596
	98.0	1130	130		
	108.0		2	68	61372
	118.0	2685	1370		
	12	8.0	1	23	0230
	138.0	2764	1528		
	14	8.0	2	18	2364
	158.0	2196	392		
	168.0		2772		1544
	178.0	2782	1584		
	188.0		4	57	92316
	1910.0		2	VAR	VAR
	2010.0		44	VAR	VAR
	21	10.0	1	18	5185
	22	10.0	2	79	31586
	2310.0		442	77	12188

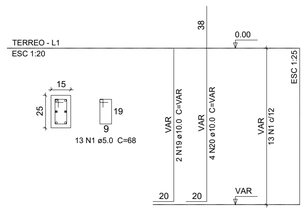
Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	190.14	82.62
	10.0	252.96	171.68
CA60	5.0	517.26	87.62
PESO TOTAL			
CA50	254.30		
CA60	87.62		

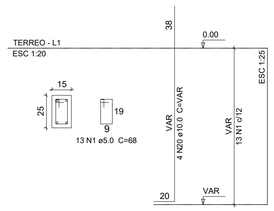
Vol. de concreto total (C-25) = 4.24 m³
Área de forma total = 66.39 m²

Nota técnica: O arremate das paredes será feito através da utilização de cintas de amarração.

P1

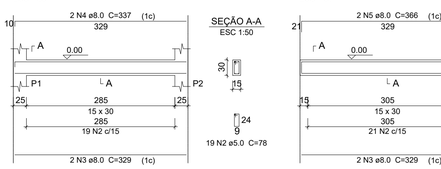


P2=P3=P4=P5=P6=P7=P8=P9=P10=P11=P12



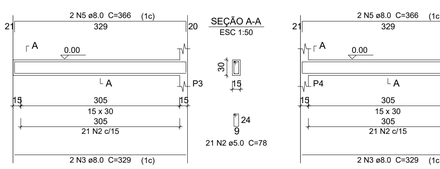
VB1

ESC 1:50



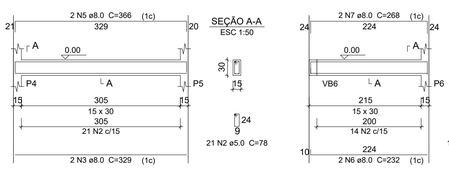
VB2

ESC 1:50



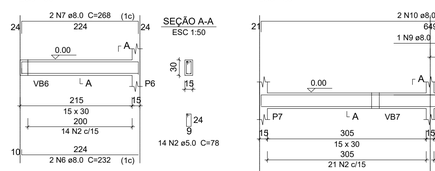
VB3

ESC 1:50



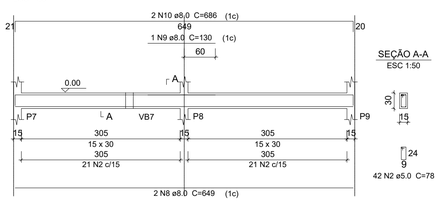
VB4

ESC 1:50



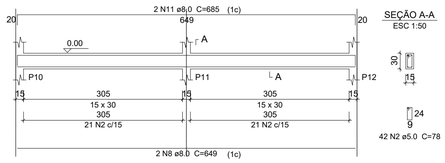
VB5

ESC 1:50



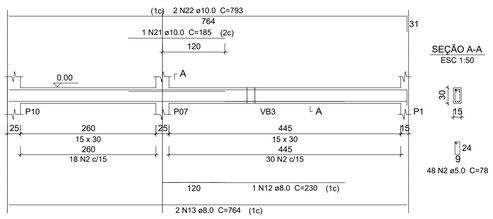
VB6

ESC 1:50



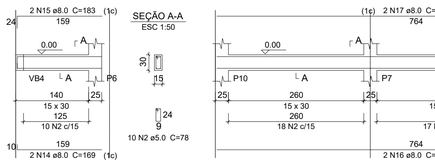
VB7

ESC 1:50



VB8

ESC 1:50

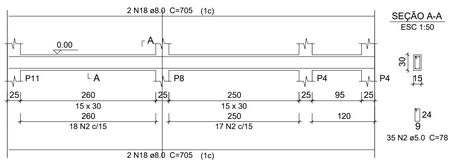


VB9

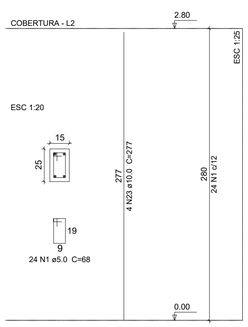
ESC 1:50

VB10

ESC 1:50



P1=P2=P3=P4=P5=P6=P7=P8=P9=P10=P11=P12



PROJETO:	FOLHA:
ESTRUTURAL	**ÚNICA**

OBRA:UNIDADE HABITACIONAL - TOCANTINÓPOLIS
PROPRIETÁRIO: PREFEITURA MUNICIPAL TOCANTINÓPOLIS
CNPJ: 01.224.716/0001-35
ENDEREÇO: PERÍMETRO URBANO E RURAL NO MUNICIPIO DE TOCANTINÓPOLIS

QUADRO DE ÁREAS

~~INDICADAS NO PROJETO ARQUITETÔNICO~~

ASSINATURA PROPRIETÁRIO

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Assinado de forma digital por FABION GOMES DE SOUSA:19696213115
Dados: 2026.06.26 14:41:42 -03'00'

PREFEITURA MUNICIPAL DE TOCANTINÓPOLIS

RESP. TÉCNICO
CREA Nº 324181/D-TO
ENGENHEIRO CIVIL

ERIQUI AUGUSTO OLIVEIRA SALES:87512904134

Assinado de forma digital por ERIQUI AUGUSTO OLIVEIRA SALES:87512904134
Dados: 2026.06.26 12:32:07 -03'00'

ERIQUI AUGUSTO OLIVEIRA SALES

ESCALA:	DATA:	DESENHO:
INDICADA	JUNHO DE 2026	

CONTEÚDO: