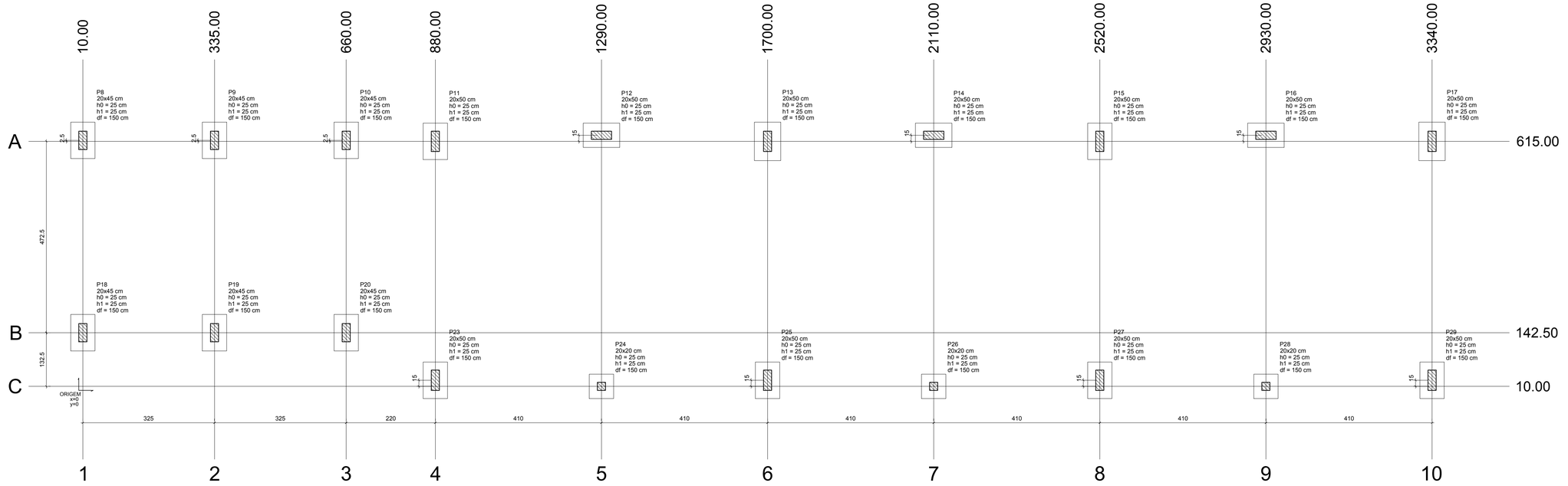
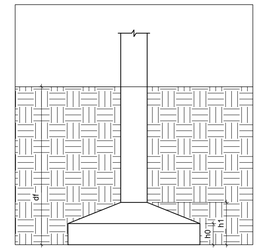
Planta de locação



Locação no eixo X	
Coordenadas (cm)	Nome
10.00	P8, P18
335.00	P9, P19
660.00	P10, P20
880.00	P11, P23
1290.00	P12, P24
1700.00	P13, P25
2110.00	P14, P26
2520.00	P15, P27
2930.00	P16, P28
3340.00	P17, P29

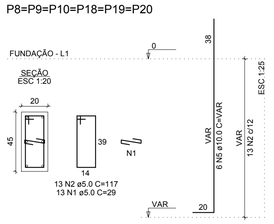
Locação no eixo Y	
Coordenadas (cm)	Nome
630.00	P12, P14, P16
617.50	P8, P9, P10
615.00	P11, P13, P15, P17
142.50	P18, P19, P20
25.00	P23, P25, P27, P29
10.00	P24, P26, P28



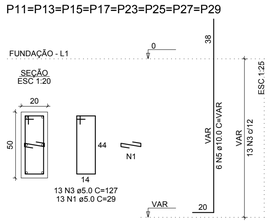
Pilar									Fundação				
Nome	Seção (cm)	X (cm)	Y (cm)	Carga Máx. (tf)	Carga Mín. (tf)	Fx Máximo (tf)		Fy Máximo (tf)		Lado B (cm)	Lado H (cm)	h0 / ha (cm)	h1 / hb (cm)	df (cm)
						Positivo	Negativo	Positivo	Negativo					
P8	20x45	10.00	617.50	5.5	1.7	0.1	-0.1	0.7	-1.0	60	90	25	25	150
P9	20x45	335.00	617.50	8.3	4.2	0.2	-0.3	0.8	-1.1	60	90	25	25	150
P10	20x45	660.00	617.50	6.2	2.1	0.2	-0.1	0.8	-1.2	60	90	25	25	150
P11	20x50	880.00	615.00	11.5	7.6	0.2	-0.3	1.2	-1.3	60	90	25	25	150
P12	20x50	1290.00	630.00	14.3	13.0	0.2	-0.4	0.0	-0.6	60	90	25	25	150
P13	20x50	1700.00	615.00	18.8	14.8	0.2	-0.3	1.3	-1.6	65	95	25	25	150
P14	20x50	2110.00	630.00	14.0	12.6	0.2	-0.4	0.0	-0.6	60	90	25	25	150
P15	20x50	2520.00	615.00	19.3	14.8	0.2	-0.3	1.5	-1.6	60	90	25	25	150
P16	20x50	2930.00	630.00	14.5	13.1	0.2	-0.2	0.0	-0.6	60	90	25	25	150
P17	20x50	3340.00	615.00	13.1	7.8	0.2	-0.3	1.9	-1.6	65	95	25	25	150
P18	20x45	10.00	142.50	13.6	9.6	0.2	-0.1	1.4	-0.6	60	90	25	25	150
P19	20x45	335.00	142.50	18.4	14.1	0.2	-0.1	1.6	-0.7	60	90	25	25	150
P20	20x45	660.00	142.50	8.9	6.1	0.2	-0.1	0.9	-1.1	60	90	25	25	150
P23	20x50	880.00	25.00	16.1	11.1	0.2	-0.1	1.0	-1.2	60	90	25	25	150
P24	20x20	1290.00	10.00	14.4	13.1	0.1	0.0	0.1	-0.2	60	60	25	25	150
P25	20x50	1700.00	25.00	17.2	13.2	0.2	-0.2	1.3	-1.1	60	90	25	25	150
P26	20x20	2110.00	10.00	14.4	13.1	0.1	0.0	0.1	-0.2	60	60	25	25	150
P27	20x50	2520.00	25.00	17.1	12.6	0.2	-0.1	1.5	-1.1	60	90	25	25	150
P28	20x20	2930.00	10.00	15.0	13.6	0.1	0.0	0.1	-0.2	60	60	25	25	150
P29	20x50	3340.00	25.00	10.6	5.2	0.2	-0.2	1.6	-1.0	60	90	25	25	150

Os esforços indicados nesta tabela são os valores máximos obtidos pela envoltória de todas as combinações definidas para as fundações. Para análises complementares, deve-se consultar o relatório de esforços na fundação, que apresenta os valores calculados para cada combinação.

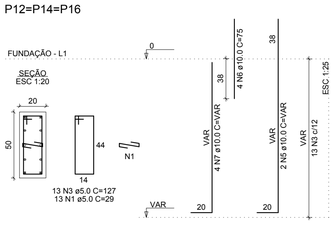
P8=P9=P10=P18=P19=P20



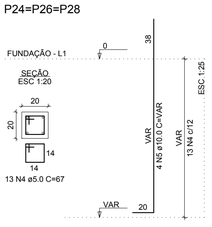
P11=P13=P15=P17=P23=P25=P27=P29



P12=P14=P16



P24=P26=P28



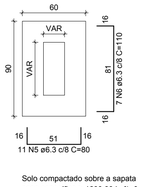
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	272	184.5
CA60	5.0	363.1	61.6
PESO TOTAL (kg)			
CA50	184.5		
CA60	61.6		

Volume de concreto (C-25) = 2.64 m³
Área de forma = 38.40 m²

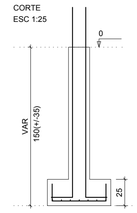
S8=S9=S10=S11=S12=
S14=S15=S16=S18=S19=
S20=S23=S25=S27=S29

PLANTA
ESC 1:25

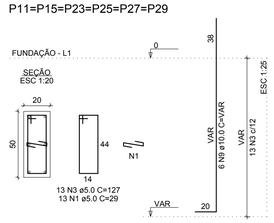


Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

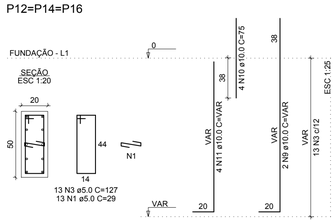
CORTE
ESC 1:25



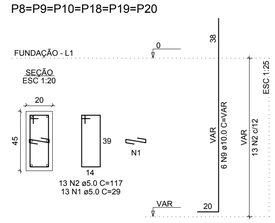
P11=P15=P23=P25=P27=P29



P12=P14=P16

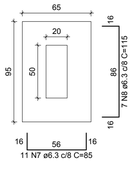


P8=P9=P10=P18=P19=P20



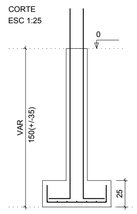
S13=S17

PLANTA
ESC 1:25

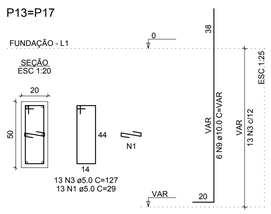


Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

CORTE
ESC 1:25



P13=P17



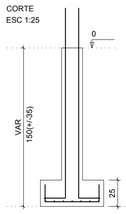
S24=S26=S28

PLANTA
ESC 1:25

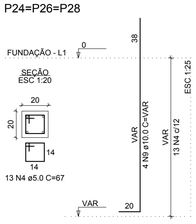


Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

CORTE
ESC 1:25



P24=P26=P28



RELAÇÃO DO AÇO

5xP8 P10 5xP11
3xP12 P13 P17
3xP24 P29 15xS11
2xS13 3xS24

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	221	29	6409
	2	5.0	78	117	9126
	3	5.0	143	127	18161
	4	5.0	39	67	2613
CA50	5	6.3	207	80	16560
	6	6.3	105	110	11550
	7	6.3	22	85	1870
	8	6.3	14	115	1610
	9	10.0	114	VAR	VAR
	10	10.0	30	75	2250
	11	10.0	12	VAR	VAR

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	315.9	85
	10.0	272	184.5
CA60	5.0	363.1	61.6
PESO TOTAL (kg)			
CA50	269.5		
CA60	61.6		

Volume de concreto (C-25) = 5.24 m³
Área de forma = 53.05 m²

Para uso do CREA:

Para uso da Prefeitura

PROJETO ESTRUTURAL

Obra: Rua Marechal Deodoro, nº 31, Centro

Cidade: Abaeté / MG

Proprietário: Prefeitura Municipal de Abaeté

CNPJ: 18.296.632/0001-00

Responsável Técnico: Clayton Jhones Ribeiro da Silva - Eng. Civil

CREA: 249.999/D

Conteúdo: Projeto Estrutural Completo da Ampliação

Área Total a Edificar: 204,40 m²

Data: Agosto / 2021

Escalas: Indicadas

Folha: 06/07

FORMATO A1.