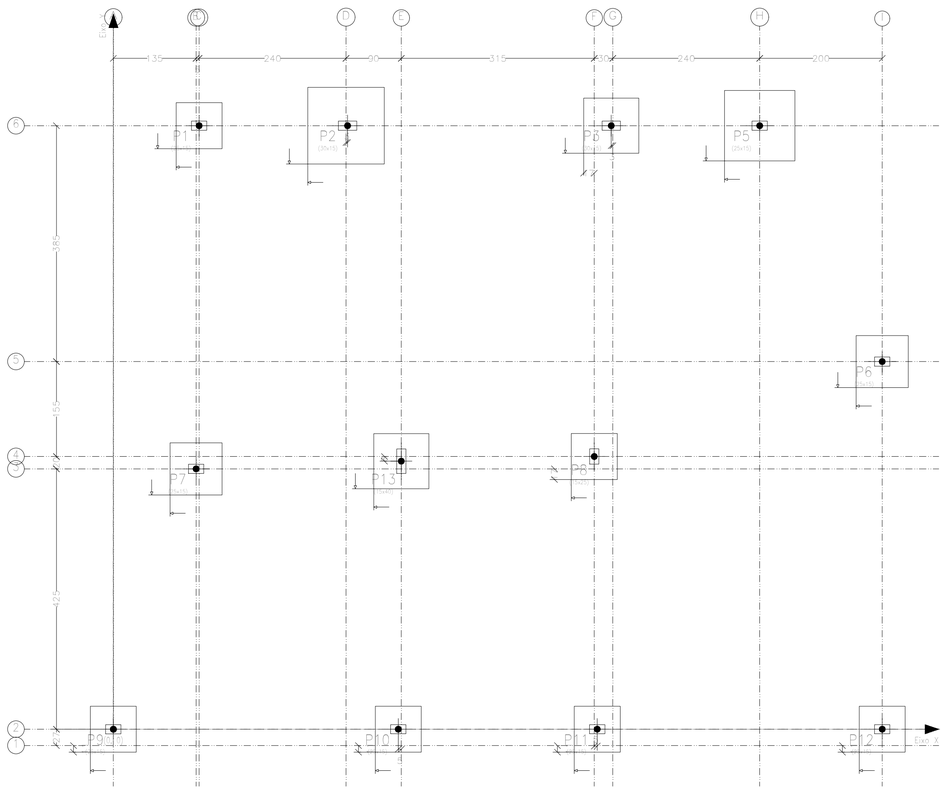
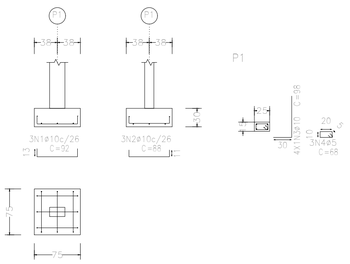


Implantação de pilares – Fundação			
Pilar	Dimensão (cm)	Coordenadas do centro	
		Coordenada X (cm)	Coordenada Y (cm)
P1	25x15	140	985
P2	30x15	382	985
P3	30x15	813	985
P5	25x15	1055	985
P6	25x15	1255	600
P7	25x15	135	425
P8	15x25	785	445
P9	25x15	0	0
P10	25x15	465	0
P11	25x15	790	0
P12	25x15	1255	0
P13	15x40	470	438
Cota de arranque dos pilares: -0,50 m			

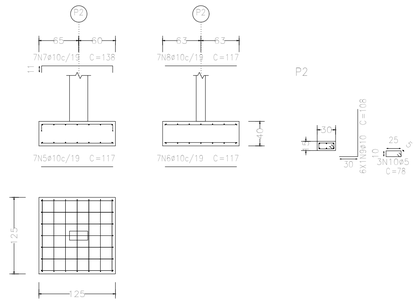
Resumo Aço Fundação Detalhamento fundação		Comp. total (m)	Peso+10% (kg)	Total
CA-50	ø10	213,0	144	144
CA-60	ø5	26,0	4	4
Total				148

Fundação
Detalhamento fundação
Concreto: C20, em geral
Escala: 1:50

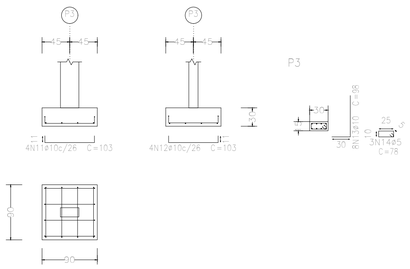
P1



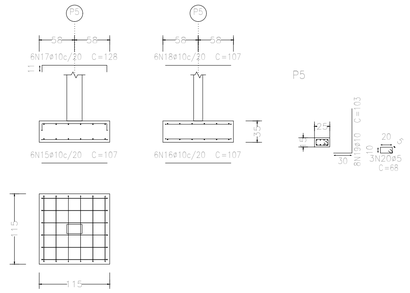
P2



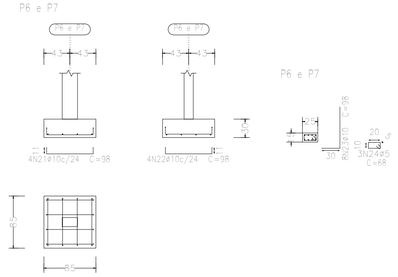
P3



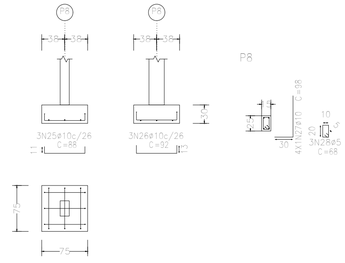
P5



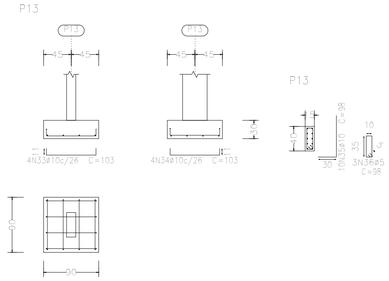
P6 e P7



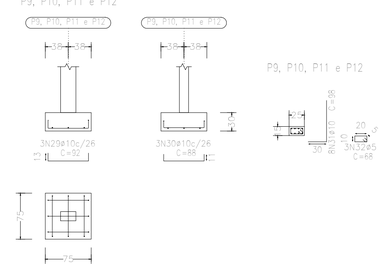
P8



P13



P9, P10, P11 e P12



Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P1	1	ø10	3	13	66	13	92	276	1,7	
	2	ø10	3	11	66	11	88	264	1,6	
	3	ø10	4	30	68		98	392	2,4	
	4	ø5	3		68		68	204		0,3
							Total+10%:		6,3	0,3
P2	5	ø10	7		117		117	819	5,0	
	6	ø10	7		117		117	819	5,0	
	7	ø10	7	11	116	11	138	966	6,0	
	8	ø10	7		117		117	819	5,0	
	9	ø10	6	30	78		108	648	4,0	
	10	ø5	3		78		78	234		0,4
							Total+10%:		27,5	0,4
P3	11	ø10	4	11	81	11	103	412	2,5	
	12	ø10	4	11	81	11	103	412	2,5	
	13	ø10	8	30	68		98	784	4,8	
	14	ø5	3		78		78	234		0,4
							Total+10%:		10,8	0,4
P5	15	ø10	6		107		107	642	4,0	
	16	ø10	6		107		107	642	4,0	
	17	ø10	6	11	106	11	128	768	4,7	
	18	ø10	6		107		107	642	4,0	
	19	ø10	8	30	73		103	824	5,1	
	20	ø5	3		68		68	204		0,3
							Total+10%:		24,0	0,3
P6=P7	21	ø10	4	11	76	11	98	392	2,4	
	22	ø10	4	11	76	11	98	392	2,4	
	23	ø10	8	30	68		98	784	4,8	
	24	ø5	3		68		68	204		0,3
							Total+10%:		10,6	0,3
							(x2):		21,2	0,6
P8	25	ø10	3	11	66	11	88	264	1,6	
	26	ø10	3	13	66	13	92	276	1,7	
	27	ø10	4	30	68		98	392	2,4	
	28	ø5	3		68		68	204		0,3
							Total+10%:		6,3	0,3
P9=P10=P11=P12	29	ø10	3	13	66	13	92	276	1,7	
	30	ø10	3	11	66	11	88	264	1,6	
	31	ø10	8	30	68		98	784	4,8	
	32	ø5	3		68		68	204		0,3
							Total+10%:		8,9	0,3
							(x4):		35,6	1,2
P13	33	ø10	4	11	81	11	103	412	2,5	
	34	ø10	4	11	81	11	103	412	2,5	
	35	ø10	10	30	68		98	980	6,0	
	36	ø5	3		98		98	294		0,5
							Total+10%:		12,1	0,6
							ø5:		0,0	4,1
							ø10:		143,8	0,0
							Total:		143,8	4,1

Lageado Grande URS

Data: 09/07/2026

Local: Lageado Grande – São Francisco de Paula

Número de desenho: 01

Promotor: Prefeitura Municipal de São Francisco de PAula

Fundações

Escala: Indicada

Alexandre Augusto Ferreira de Almeida
Estruturas de Concreto Armado e Fundações
Número do CREA: SPR3557828

Alexandre Augusto Ferreira de Almeida:13846293865

Assinado de forma digital por Alexandre Augusto Ferreira de Almeida:13846293865
Dados: 2026.07.17 16:42:13 -03'00'

Data: 09/07/2026