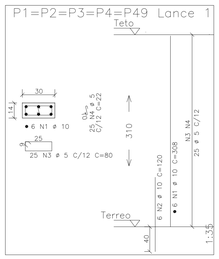
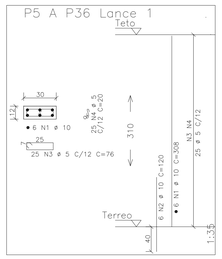
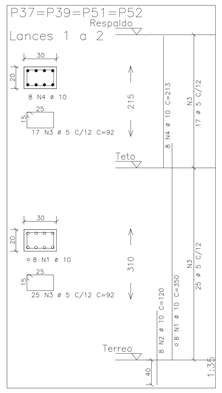
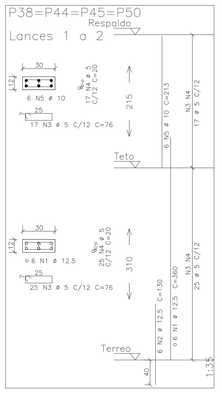
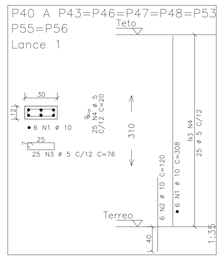
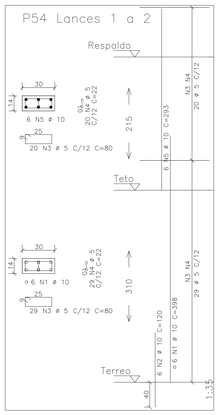


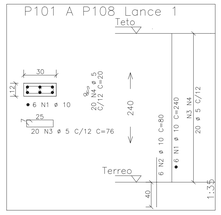












	AÇO	POS	BIT (mm)	QUANT	COMPR UNIT (cm)
P1=P2=P3=P4=P49 Lance 1 (X5)					
	50A	1	10	30	308
	50A	2	10	30	120
	60B	3	5	125	80
	60B	4	5	125	22
P5 A P36 Lance 1 (X32)					
	50A	1	10	192	308
	50A	2	10	192	120
	60B	3	5	800	76
	60B	4	5	800	20
Lances 1 a 2 (X4)					
	50A	1	10	32	350
	50A	2	10	32	120
	60B	3	5	168	92
	50A	4	10	32	213
Lances 1 a 2 (X4)					
	50A	1	12.5	24	360
	50A	2	12.5	24	130
	60B	3	5	168	76
	60B	4	5	168	20
	50A	5	10	24	213
P55=P56 (X10)					
	50A	1	10	60	308
	50A	2	10	60	120
	60B	3	5	250	76
	60B	4	5	250	20
P54 Lances 1 a 2					
	50A	1	10	6	398
	50A	2	10	6	120
	60B	3	5	49	80
	60B	4	5	49	22
	50A	5	10	6	293
P101 A P108 Lance 1 (X8)					
	50A	1	10	48	240
	50A	2	10	48	80
	60B	3	5	160	76
	60B	4	5	160	20

RESUMO DO AÇO DOS PILARES

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	1678,9	1139,47
	12.5	117,6	124,57
CA60	5.0	254,86	280,34
PESO TOTAL (kg)			
CA50	1264,04		
CA60	280,34		

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	8.0	88	94	8272
	2	8.0	209	104	21736
	3	8.0	54	94	5076
	4	8.0	58	114	6612
	5	8.0	206	89	18334
	6	8.0	10	89	890
	7	8.0	7	109	763
	8	8.0	8	89	712
	9	8.0	49	104	5096
	10	8.0	27	99	2673
	11	8.0	8	109	872
	12	8.0	56	84	4704
	13	8.0	8	84	672
	14	8.0	6	99	594
	15	8.0	10	104	1040
	16	8.0	9	114	1026
	17	8.0	6	109	654
	18	10.0	8	123	984
	19	10.0	7	133	931

RESUMO DO AÇO DAS SAPATAS

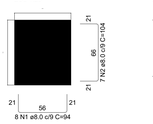
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	797,3	346
	10.0	19,2	13
PESO TOTAL (kg)			
CA50	359		

Volume de concreto sapatas (C-25) = 9.91 m³
Área de forma sapatas = 45.16 m²

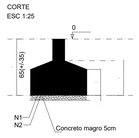
S.1

P1,P2,P3,P4,P41,P54

PLANTA
ESC 1:25



CORTE
ESC 1:25

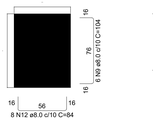


Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

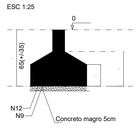
S.2

P5=P6=P7=P8=P32=P53

PLANTA
ESC 1:25



CORTE
ESC 1:25

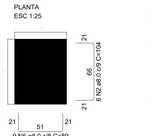


Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

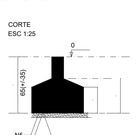
S.3

P9,P10,P11,P12,P13,P14,P15,P16,P19,P21
P24,P25,P28,P29,P30,P33,P35,P40,P42,P46
P48,P56

PLANTA
ESC 1:25



CORTE
ESC 1:25

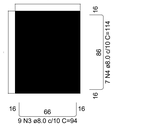


Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

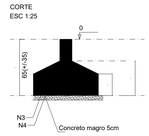
S.4

P17,P18,P27

PLANTA
ESC 1:25



CORTE
ESC 1:25

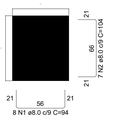


Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

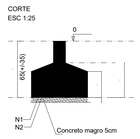
S.5

P20,P22,P23,P31,P34,P47

PLANTA
ESC 1:25



CORTE
ESC 1:25

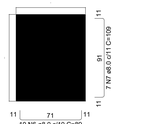


Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

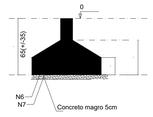
S.6

P26

PLANTA
ESC 1:25



CORTE
ESC 1:25

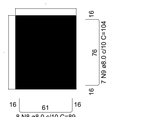


Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

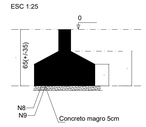
S.7

P36

PLANTA
ESC 1:25



CORTE
ESC 1:25

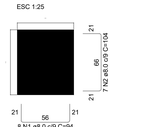


Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

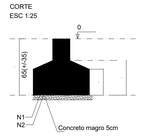
S.8

P37

PLANTA
ESC 1:25



CORTE
ESC 1:25

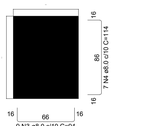


Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

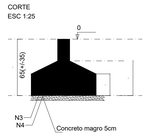
S.9

P38,P43

PLANTA
ESC 1:25



CORTE
ESC 1:25

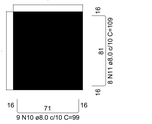


Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

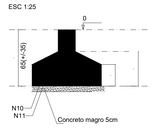
S.10

P39

PLANTA
ESC 1:25



CORTE
ESC 1:25

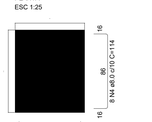


Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

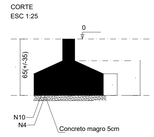
S.11

P44,P45

PLANTA
ESC 1:25



CORTE
ESC 1:25

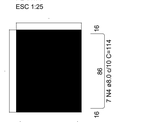


Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

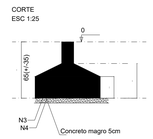
S.12

P49

PLANTA
ESC 1:25



CORTE
ESC 1:25

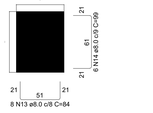


Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

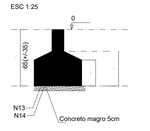
S.13

P50,P55

PLANTA
ESC 1:25



CORTE
ESC 1:25

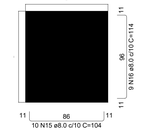


Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

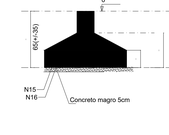
S.14

P51,P52

PLANTA
ESC 1:25



CORTE
ESC 1:25



Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

CONCRETO			CARGAS PARA DIMENSIONAMENTO	
Fck= 25	MPa	A/C Máx.= 0,60	CARGA UTILIZAÇÃO	1,0 Kg/m2
E_{C28}= 28	GPa		REVESTIMENTO PISO	24,5 Kg/m2

LAJE MACIÇA	MATERIAL : TIJOLO CERÂMICO DE 6 FUROS
	REVESTIMENTO : 6 cm
LAJE	MATERIAL DE ENCHIMENTO: 59 Kg/m²
	REVESTIMENTO : 5 cm

ALTERAÇÕES
___/___/___
___/___/___
___/___/___
___/___/___

GOVERNO DO ESTADO DO PARANÁ
SEIL – SECRETARIA DE INFRAESTRUTURA E LOGISTICA
PARANÁ EDIFICAÇÕES
GERÊNCIA DE PROJETOS

PROPRIETÁRIO: GOVERNO DO ESTADO DO PARANÁ
MUNICÍPIO:
OBRA: UNIDADE DE SAUDE DA FAMILIA – PORTE 1
ESCRITÓRIO REGIONAL:
LOCAL: UNIDADE PADRÃO PARA O ESTADO DO PARANA
TIPO: CONSTRUÇÃO

AUTOR DO PROJETO/REGISTRO PROF: BRUNA PAOLA DZIURA/ CREA 194.297/D–PR
PROJETO: ESTRUTURAL

RESPONSÁVEL TÉCNICO/REGISTRO PROF:
REFERÊNCIA: ARM. BLOCOS/SAPATAS/PILARES

MEP– ARQUITETURA E PLANEJAMENTO LTDA–EPP
CNPJ: CNPJ: 08.184.906/0001–28
CAU / PR : 61.798–9
RUA: RUA DOUTOR JOÃO, JD. SUMARÉ, LONDRINA–PR
CEP: 86020–460
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DESENHO: MARCIO
DATA: JULHO /2021
ESCALA DO DESENHO: 1:25
ARQUIVO: EST_PE_UNF 1.03_R00

EST 03 08