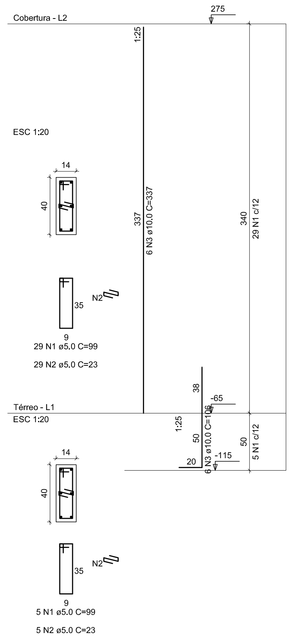
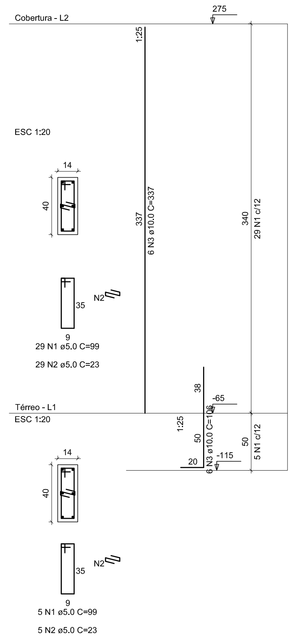
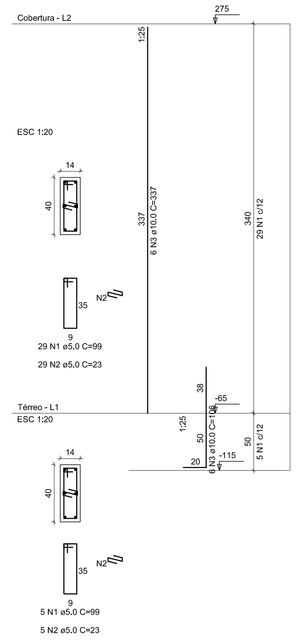
P22



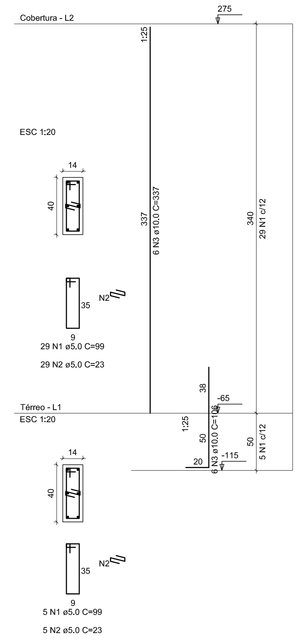
P23



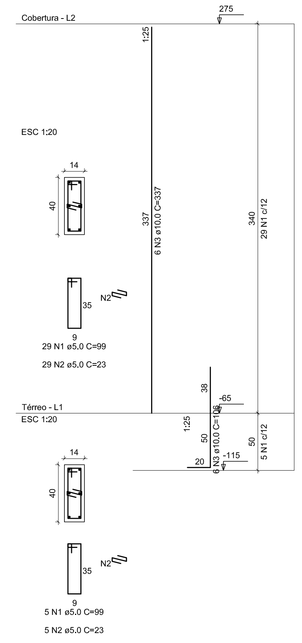
P24



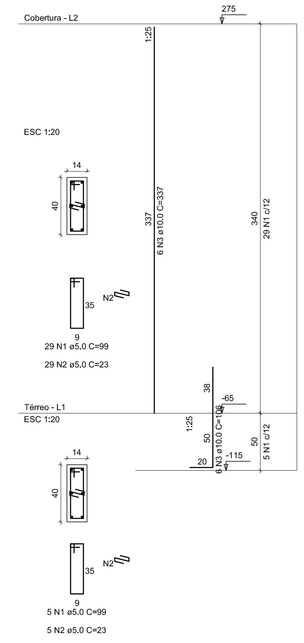
P25



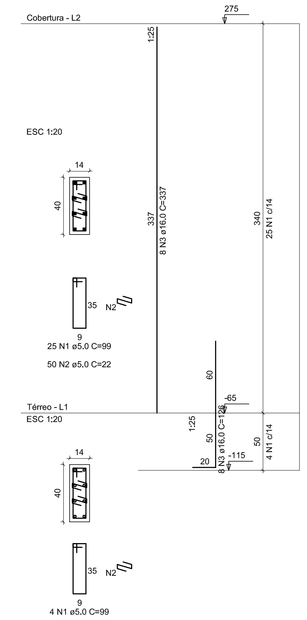
P26



P27



P28

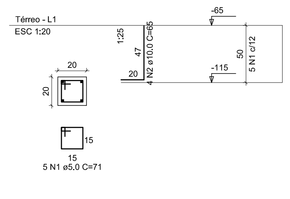


P29

P30

P31

P32

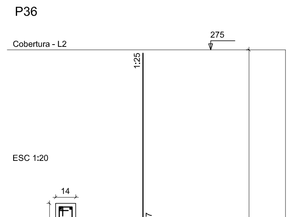


P33

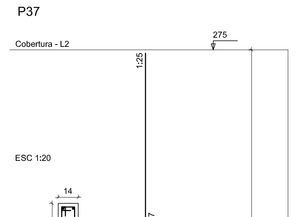
P34

P35

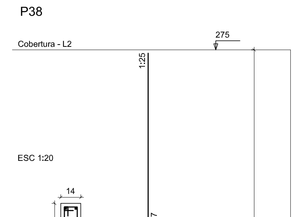
P36



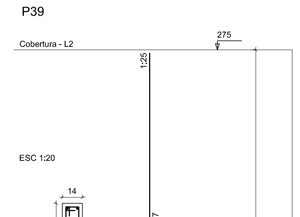
P37



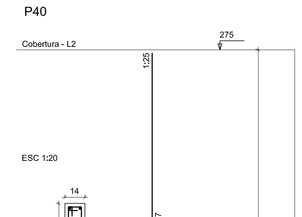
P38



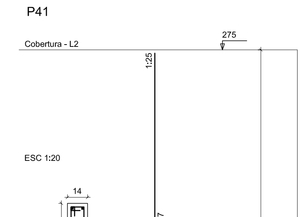
P39



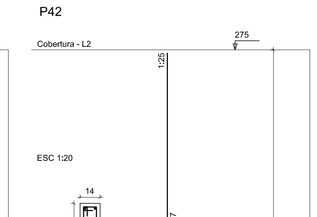
P40



P41



P42



RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
P22-L2	60	1	5,0	29	99	2871
	60	2	5,0	29	23	667
	50	3	10,0	6	337	2022
P23-L2	60	1	5,0	29	99	2871
	60	2	5,0	29	23	667
	50	3	10,0	6	337	2022
P24-L2	60	1	5,0	29	99	2871
	60	2	5,0	29	23	667
	50	3	10,0	6	337	2022
P25-L2	60	1	5,0	29	99	2871
	60	2	5,0	29	23	667
	50	3	10,0	6	337	2022
P26-L2	60	1	5,0	29	99	2871
	60	2	5,0	29	23	667
	50	3	10,0	6	337	2022
P27-L2	60	1	5,0	29	99	2871
	60	2	5,0	29	23	667
	50	3	10,0	6	337	2022
P28-L2	60	1	5,0	25	99	2475
	60	2	5,0	50	22	1100
	50	3	16,0	8	337	2696
P29-L2	60	1	5,0	29	99	2871
	60	2	5,0	29	23	667
	50	3	10,0	6	337	2022
P30-L2	60	1	5,0	29	99	2871
	60	2	5,0	29	23	667
	50	3	10,0	6	337	2022
P31-L2	60	1	5,0	29	99	2871
	60	2	5,0	29	23	667
	50	3	10,0	6	337	2022
P33-L2	60	1	5,0	29	99	2871
	60	2	5,0	29	23	667
	50	3	10,0	6	337	2022
P34-L2	60	1	5,0	29	79	2291
	50	2	10,0	4	337	1348
P35-L2	60	1	5,0	29	79	2291
	50	2	10,0	4	337	1348
P36-L2	60	1	5,0	29	99	2871
	60	2	5,0	29	23	667
	50	3	10,0	6	337	2022
P37-L2	60	1	5,0	29	99	2871
	60	2	5,0	29	23	667
	50	3	10,0	6	337	2022
P38-L2	60	1	5,0	29	99	2871
	60	2	5,0	29	23	667
	50	3	10,0	6	337	2022
P39-L2	60	1	5,0	29	99	2871
	60	2	5,0	29	23	667
	50	3	10,0	6	337	2022
P40-L2	60	1	5,0	29	99	2871
	60	2	5,0	29	23	667
	50	3	10,0	6	337	2022
P41-L2	60	1	5,0	29	99	2871
	60	2	5,0	29	23	667
	50	3	10,0	6	337	2022
P42-L2	60	1	5,0	29	99	2871
	60	2	5,0	29	23	667
	50	3	10,0	6	337	2022
P22-L1	60	1	5,0	5	99	495
	60	2	5,0	5	23	115
	50	3	10,0	6	106	636
P23-L1	60	1	5,0	5	99	495
	60	2	5,0	5	23	115
	50	3	10,0	6	106	636
P24-L1	60	1	5,0	5	99	495
	60	2	5,0	5	23	115
	50	3	10,0	6	106	636
P25-L1	60	1	5,0	5	99	495
	60	2	5,0	5	23	115
	50	3	10,0	6	106	636
P26-L1	60	1	5,0	5	99	495
	60	2	5,0	5	23	115
	50	3	10,0	6	106	636
P27-L1	60	1	5,0	5	99	495
	60	2	5,0	5	23	115
	50	3	10,0	6	106	636
P28-L1	60	1	5,0	4	99	396
	60	2	5,0	8	23	228
	50	3	16,0	8	126	1058
P29-L1	60	1	5,0	5	99	495
	60	2	5,0	5	23	115
	50	3	10,0	6	106	636
P30-L1	60	1	5,0	5	99	495
	60	2	5,0	5	23	115
	50	3	10,0	6	106	636
P31-L1	60	1	5,0	5	99	495
	60	2	5,0	5	23	115
	50	3	10,0	6	106	636
P32-L1	60	1	5,0	5	71	355
	50	2	10,0	4	65	260
P33-L1	60	1	5,0	5	99	495
	60	2	5,0	5	23	115
	50	3	10,0	6	106	636
P34-L1	60	1	5,0	5	79	395
	60	2	5,0	5	79	395
P35-L1	60	1	5,0	5	79	395
	50	2	10,0	4	106	424
P36-L1	60	1	5,0	5	99	495
	60	2	5,0	5	23	115
	50	3	10,0	6	106	636
P37-L1	60	1	5,0	5	99	495
	60	2	5,0	5	23	115
	50	3	10,0	6	106	636
P38-L1	60	1	5,0	5	99	495
	60	2	5,0	5	23	115
	50	3	10,0	6	106	636
P39-L1	60	1	5,0	5	99	495
	60	2	5,0	5	23	115
	50	3	10,0	6	106	636
P40-L1	60	1	5,0	5	99	495
	60	2	5,0	5	23	115
	50	3	10,0	6	106	636
P41-L1	60	1	5,0	5	99	495
	60	2	5,0	5	23	115
	50	3	10,0	6	106	636
P42-L1	60	1	5,0	5	99	495
	60	2	5,0	5	23	115
	50	3	10,0	6	106	636

RESUMO DO AÇO

AÇO	DIAM	C.TOTAL (m)	PESO+10% (kg)
CA50	10,0	489,6	332,1
	16,0	37,1	64,4
CA60	5,0	804,6	136,3
PESO TOTAL			
CA50			396,5
CA60			136,3

Vol. de concreto total =4,28 m³
Área de forma total = 83,08 m²

NOTAS – PROJETO DE ESTRUTURAS/FUNDAÇÕES

01 - QUALQUER MODIFICAÇÃO DO PROJETO DEVE SER FEITA MEDIANTE AVALIAÇÃO DOS AUTORES DO PROJETO;

02 - TODOS AS DIMENSÕES EM cm, SALVO REFERÊNCIA EM PLANTA;

03 - CONCRETO Fck=25 MPa PARA BLOCOS DE COROAMENTO, VIGAS, PILARES E LAJES;

04 - Fck = 20 MPa PARA AS FUNDAÇÕES;

05 - DEVE-SE FAZER CONTROLE TECNOLÓGICO DO CONCRETO UTILIZADO;

06 - RECOBRIMENTO DAS ARMADURAS:
PILARES = 2,5cm
VIGAS = 2,5cm
LAJES = 2,0cm
BLOCOS = 3 cm
ESTACAS = 4 cm

07 - AÇOS: CA-50 e CA-60;

08 - JUNTA DE DILATAÇÃO PREENCHIDA COM SELANTE À BASE DE POLIURETANO EXPANSÍVEL

ESCALA DE PLOTAGEM 1:0,1

CÓD./COR	PENA	R (c)
1, 9, 11, 19, 21, 29, 31, 39, 41, 49, 51, 59, 61, 69, 71, 79, 81, 89, 91, 99, 101, 109, 111, 119, 121, 129, 131, 139, 141, 149, 151, 159, 161, 169, 171, 179, 181, 189, 191, 199, 201, 209, 211, 219, 221, 229, 231, 239, 241, 249, 251, 252	7	0,10
2, 10, 12, 20, 22, 30, 32, 40, 42, 50, 52, 60, 62, 70, 72, 80, 82, 90, 92, 100, 102, 110, 112, 120, 122, 130, 132, 140, 142, 150, 152, 160, 162, 170, 172, 180, 182, 190, 192, 200, 202, 210, 212, 220, 222, 230, 232, 240, 242, 250	7	0,20
3, 13, 23, 33, 43, 53, 63, 73, 83, 93, 103, 113, 123, 133, 143, 153, 163, 173, 183, 193, 203, 213, 223, 233, 243	7	0,30
4, 14, 24, 34, 44, 54, 64, 74, 84, 94, 104, 114, 124, 134, 144, 154, 164, 174, 184, 194, 204, 214, 224, 234, 244	7	0,40
5, 15, 25, 35, 45, 55, 65, 75, 85, 95, 105, 115, 125, 135, 145, 155, 165, 175, 185, 195, 205, 215, 225, 235, 245	7	0,60
6, 16, 26, 36, 46, 56, 66, 76, 86, 96, 106, 116, 126, 136, 146, 156, 166, 176, 186, 196, 206, 216, 226, 236, 246	7	0,15
7, 17, 27, 37, 47, 57, 67, 77, 87, 97, 107, 117, 127, 137, 147, 157, 167, 177, 187, 197, 207, 217, 227, 237, 247	7	0,20
8, 18, 28, 38, 48, 58, 68, 78, 88, 98, 108, 118, 128, 138, 148, 158, 168, 178, 188, 198, 208, 218, 228, 238, 248	7	0,25
9, 19, 29, 39, 49, 59, 69, 79, 89, 99, 109, 119, 129, 139, 149, 159, 169, 179, 189, 199, 209, 219, 229, 239, 249	10	0,30
10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250	252	0,40
11, 21, 31, 41, 51, 61, 71, 81, 91, 101, 111, 121, 131, 141, 151, 161, 171, 181, 191, 201, 211, 221, 231, 241, 251	252	0,50
12, 22, 32, 42, 52, 62, 72, 82, 92, 102, 112, 122, 132, 142, 152, 162, 172, 182, 192, 202, 212, 222, 232, 242, 252	252	0,60
13, 23, 33, 43, 53, 63, 73, 83, 93, 103, 113, 123, 133, 143, 153, 163, 173, 183, 193, 203, 213, 223, 233, 243	7	0,20
14, 24, 34, 44, 54, 64, 74, 84, 94, 104, 114, 124, 134, 144, 154, 164, 174, 184, 194, 204, 214, 224, 234, 244	7	0,30
15, 25, 35, 45, 55, 65, 75, 85, 95, 105, 115, 125, 135, 145, 155, 165, 175, 185, 195, 205, 215, 225, 235, 245	7	0,40
16, 26, 36, 46, 56, 66, 76, 86, 96, 106, 116, 126, 136, 146, 156, 166, 176, 186, 196, 206, 216, 226, 236, 246	7	0,60
17, 27, 37, 47, 57, 67, 77, 87, 97, 107, 117, 127, 137, 147, 157, 167, 177, 187, 197, 207, 217, 227, 237, 247	7	0,15
18, 28, 38, 48, 58, 68, 78, 88, 98, 108, 118, 128, 138, 148, 158, 168, 178, 188, 198, 208, 218, 228, 238, 248	7	0,20
19, 29, 39, 49, 59, 69, 79, 89, 99, 109, 119, 129, 139, 149, 159, 169, 179, 189, 199, 209, 219, 229, 239, 249	7	0,25
110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250	7	0,30
191, 201, 211, 221, 231, 241, 251	7	0,15
154, 164, 174, 184, 194, 204, 214, 224, 234, 244	7	0,15
156, 166, 176, 186, 196, 206, 216, 226, 236, 246	7	0,25
192, 202, 212, 222, 232, 242, 252	7	0,25

Ministério da Educação

FNDE Fundo Nacional de Desenvolvimento da Educação

PROINFÂNCIA – ESPAÇO EDUCATIVO INFANTIL

ENDEREÇO:

MUNICÍPIO – UF:

PROPRIETÁRIO: FUNDO NACIONAL DE DESENVOLVIMENTO DA EDUCAÇÃO - FNDE

AUTORES DO PROJETO : RICARDO FIUZA LIMA - CREA:12.848/D-DF
GLAUCYO DE OLIVEIRA SANTOS - CREA:81.687/D-MG

RESPONSÁVEL TÉCNICO:

PROPRIETÁRIO

AUTOR DO PROJETO — CREA-AP-1-CREA-XX

AUTOR DO PROJETO — CREA-AP-2-CREA-XX

RESP. TÉCNICO — CREA

DLFO | CREA

RA

PROJETO TIPO B

PROJETO ESTRUTURAL

COORDENAÇÃO: COEST - Coordenação Geral de Infra-estrutura

PILARES - PRANCHA 2

ES

DESENHO

REVISÃO: R.01 JUL/2008

ESCALA: INDICADA

DATA EMISSÃO: 13/03/2008

PRANCHA: 17/28