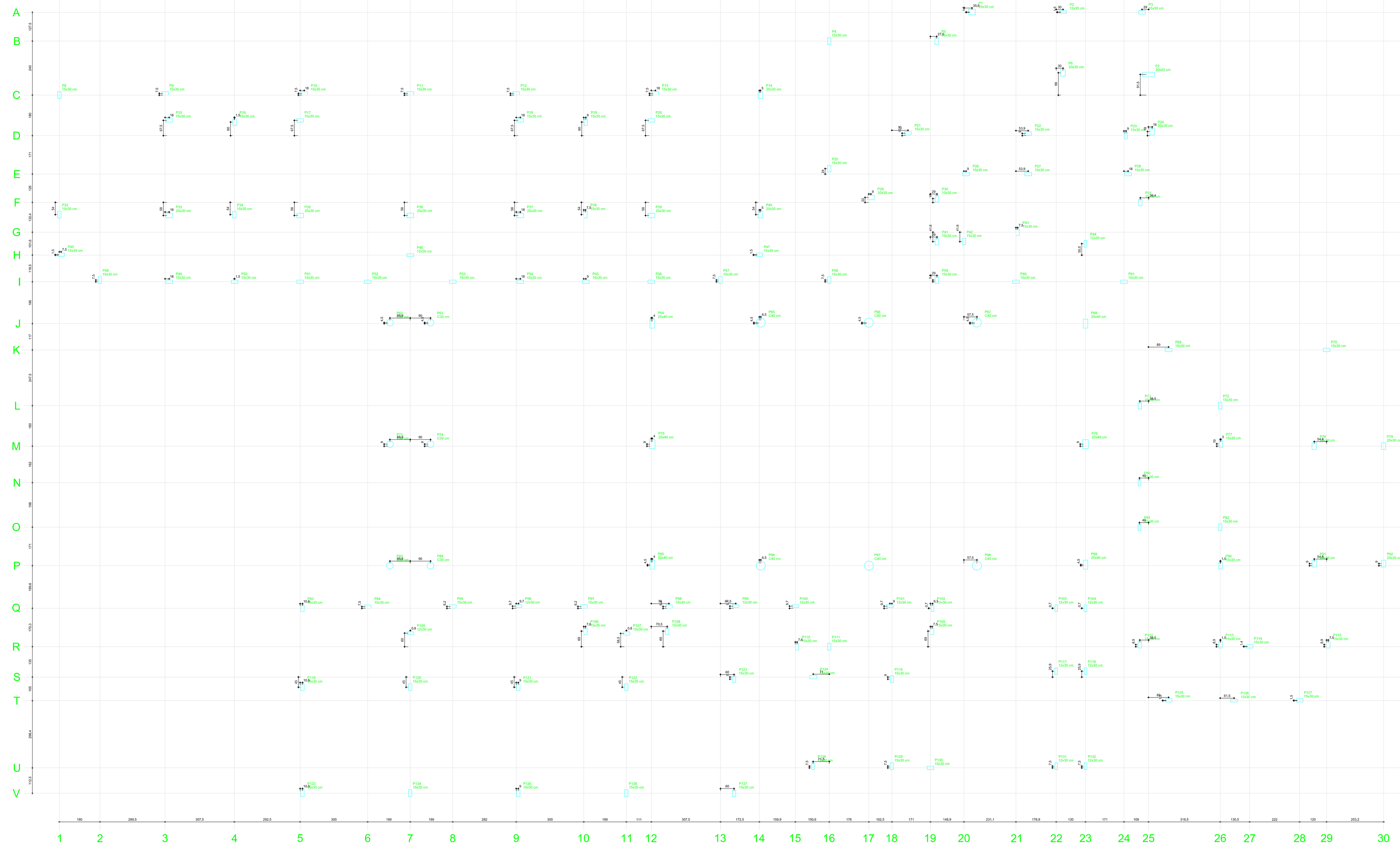
PROJETO DE ESTRUTURA

DE CONCRETO



Nome	Seção (cm)	X (cm)	Pilar Y (cm)	Carga Máx. (tf)	Carga Mín. (tf)
P1	20x30	4535.45	-180.00	2.4	2.2
P2	12x30	5661.45	-180.00	2.4	4.5
P3	15x30	5299.90	-181.50	7.4	2.2
P4	15x30	3901.45	-309.00	7.4	6.8
P5	15x30	4378.45	-309.00	8.4	7.1
P6	20x30	4939.90	-450.00	1.9	1.7
P7	20x52	5319.90	-457.50	3.0	2.5
P8	15x30	481.45	-549.00	7.3	6.6
P9	15x30	950.95	-541.50	6.2	5.6
P10	15x30	1568.95	-541.50	5.1	4.7
P11	15x30	2039.90	-541.50	12.6	11.0
P12	15x30	2510.95	-541.50	5.0	4.6
P13	15x30	3128.95	-541.50	5.9	5.4
P14	20x30	3590.95	-549.00	7.9	7.1
P15	15x30	3750.80	-549.00	8.3	7.7
P16	15x30	3959.95	-669.00	5.1	4.6
P17	15x30	1550.95	-661.50	7.4	6.8
P18	15x30	2528.95	-661.50	7.5	6.9
P19	15x30	2819.95	-669.00	8.3	7.6
P20	15x30	3110.95	-661.50	7.3	6.6
P21	15x30	4250.90	-718.50	11.9	11.0
P22	15x30	4784.90	-720.00	8.8	8.1
P23	12x30	5219.90	-729.00	6.5	6.1
P24	20x30	5335.90	-711.00	0.6	0.6
P25	15x30	3901.45	-876.00	9.5	9.1
P26	15x30	4508.90	-900.00	6.6	6.1
P27	15x30	4784.90	-900.00	6.2	5.7
P28	15x30	5228.90	-900.00	7.4	6.9
P29	20x30	4356.90	-1054.00	15.4	12.7
P30	15x30	4508.90	-1054.00	3.3	3.1
P31	15x30	5383.45	-1026.00	3.3	3.1
P32	15x30	481.45	-1080.00	8.6	8.0
P33	20x30	988.95	-1084.00	13.0	12.0
P34	15x30	1256.45	-1080.00	8.0	7.5
P35	20x30	1550.95	-1084.00	12.3	11.3
P36	20x30	2039.95	-1084.00	17.2	15.8
P37	20x30	2528.95	-1084.00	12.3	11.3
P38	15x30	2818.45	-1080.00	8.1	7.6
P39	20x30	3110.95	-1084.00	12.7	11.7
P40	20x30	3595.95	-1080.00	10.3	9.6
P41	15x30	4379.90	-1200.00	4.0	3.7
P42	15x30	4499.90	-1200.00	5.0	4.7
P43	15x30	4784.90	-1200.00	5.0	4.7
P44	15x30	5039.90	-1209.00	5.8	5.3
P45	15x30	488.95	-1256.45	2.8	2.6
P46	12x30	1039.95	-1260.00	4.0	3.6
P47	15x30	3590.95	-1258.50	3.0	2.7
P48	15x30	661.45	-1571.00	6.3	5.8
P49	15x30	968.95	-1378.50	6.9	6.4
P50	15x30	1259.95	-1378.50	6.5	6.0
P51	15x30	1550.95	-1378.50	6.0	5.6
P52	15x30	1850.95	-1378.50	5.8	5.3
P53	15x30	2228.95	-1378.50	6.0	5.5
P54	15x30	2528.95	-1378.50	6.6	6.1
P55	15x30	2819.95	-1378.45	6.3	5.9
P56	15x30	3110.95	-1378.50	6.3	5.9
P57	15x30	3418.45	-1371.00	7.3	6.7
P58	15x30	3901.45	-1371.00	11.3	10.4
P59	15x30	4379.90	-1371.00	8.9	8.3
P60	15x30	4730.95	-1378.50	8.6	8.1
P61	15x30	5210.90	-1378.50	6.3	6.0
P62	C30	1949.95	-1560.00	2.6	2.4
P63	C30	2129.95	-1560.00	2.6	2.4
P64	20x40	3114.95	-1564.50	6.1	5.9
P65	C40	3597.45	-1560.00	8.3	8.0
P66	C40	4077.40	-1560.00	7.8	7.5
P67	C40	4557.40	-1560.00	8.3	8.0
P68	20x40	5039.90	-1564.50	6.1	5.9
P69	15x30	5498.95	-1681.50	6.4	6.0
P70	15x30	5110.90	-1681.50	8.1	7.5
P71	15x30	5638.40	-1929.00	5.3	4.9
P72	15x30	5638.40	-1929.00	4.8	4.3
P73	C30	1949.95	-2100.00	3.8	3.6
P74	C30	2129.95	-2100.00	3.8	3.6
P75	20x40	3114.95	-2100.00	6.0	5.7
P76	20x40	5039.90	-2100.00	6.5	6.1
P77	15x30	5641.40	-2098.00	8.5	7.9
P78	20x30	6056.10	-2109.00	12.8	11.7
P79	20x30	6364.05	-2109.00	5.4	5.1
P80	12x30	5279.90	-2271.00	5.8	5.3
P81	12x30	5279.90	-2469.00	6.1	5.6
P82	C30	5638.40	-2469.00	3.4	3.4
P83	15x30	5966.95	-2640.00	7.8	7.6
P84	C30	3129.55	-2640.00	2.6	2.4
P85	20x40	3114.95	-2635.50	6.1	5.9
P86	C40	3597.45	-2640.00	8.3	8.0
P87	C40	4077.40	-2640.00	7.8	7.5
P88	C40	4557.40	-2640.00	8.3	8.0
P89	20x40	5039.90	-2635.00	6.5	6.1
P90	C40	5498.95	-2640.00	8.3	8.0
P91	20x30	6056.10	-2631.00	12.9	11.9
P92	20x30	6364.05	-2631.00	5.3	4.9
P93	15x30	1561.45	-2629.83	4.3	4.0
P94	15x30	1851.00	-2622.13	6.7	6.1
P95	15x30	2228.90	-2621.45	5.2	4.7
P96	15x30	2528.90	-2621.45	6.2	5.6
P97	15x30	2810.95	-2621.45	3.2	2.8
P98	15x30	3189.00	-2621.45	3.2	2.8
P99	12x30	3485.95	-2619.95	4.6	4.2
P100	12x30	3750.80	-2619.95	4.7	4.2
P101	12x30	4170.95	-2619.95	4.1	3.8
P102	12x30	4360.20	-2628.95	4.5	4.1
P103	12x30	4909.85	-2628.95	7.8	6.9
P104	12x30	5039.85	-2628.95	0.3	0.1
P105	12x30	2040.65	-2930.95	4.9	4.5
P106	15x30	2818.50	-2930.95	2.5	2.0
P107	15x30	3005.65	-2941.45	3.0	2.7
P108	15x30	3161.45	-2930.95	2.5	2.1
P109	15x30	3358.45	-2930.95	5.0	4.6
P110	15x30	3358.45	-2999.95	5.0	4.6
P111	15x30	3901.45	-2999.95	4.9	4.5
P112	15x30	5281.45	-2991.00	7.2	6.7
P113	15x30	5639.90	-2991.00	9.6	9.0
P114	15x30	5785.90	-2998.50	9.0	8.4
P115	15x30	6118.40	-2991.00	6.4	6.0
P116	15x30	4179.90	-3143.95	6.6	6.0
P117	12x30	4909.85	-3109.00	7.2	6.6
P118	12x30	5039.85	-3109.00	5.8	5.4
P119	15x30	1561.45	-3179.95	8.5	8.0
P120	15x30	2039.90	-3179.95	15.2	14.2
P121	15x30	2519.90	-3179.95	10.7	9.8
P122	15x30	2818.50	-3179.95	7.6	6.8
P123	15x30	3485.95	-3134.95	5.0	4.6
P124	15x30	3830.45	-3134.95	6.5	5.8
P125	15x30	5408.95	-3235.50	4.0	3.7
P126	12x30	5699.90	-3240.00	4.4	4.2
P127	15x30	5980.90	-3238.50	3.9	3.6
P128	12x30	3829.90	-3530.95	10.5	9.5
P129	15x30	4179.90	-3530.95	5.5	5.1
P130	15x30	4350.95	-3538.45	10.1	9.1
P131	12x30	4909.85	-3530.95	12.6	11.6
P132	12x30	5039.85	-3530.95	1.3	1.0
P133	15x30	1561.45	-3650.95	6.9	6.4
P134	15x30	2039.90	-3650.95	13.1	12.0
P135	15x30	2519.90	-3650.95	12.1	11.1
P136	15x30	2999.90	-3650.95	13.1	12.0
P137	15x30	3418.45	-3650.95	9.6	8.9

OBSERVAÇÕES IMPORTANTES:

1- O FNDE disponibiliza as fundações do projeto através do cálculo de blocos sobre estacas.A taxa de resistência do solo utilizada no cálculo é de 2kg/cm2, considerando o solo homogêneo. As estacas possuem 3,5 m de comprimento, atendendo a essa resistência. Caso a taxa de resistência do solo do terreno onde será executada a obra seja inferior a esta, as fundações deverão ser redimensionadas. Nesse caso, a construtora ou executora da obra deverá ser emitida a ART referente ao cálculo das fundações, disponibilizamos nos endereços eletrônicos abaixo, as cargas nas fundações.

2- Estes projetos estão disponíveis no site do FNDE

3- A profundidade das estacas foi calculada utilizando-se o Método Aoki-Velloso para estacas.

4- Recomendamos que seja realizada a sondagem do terreno pelo método SPT para determinação da resistência do solo e análise do perfil geotécnico.

FNDE Fundo Nacional de Desenvolvimento da Educação — Ministério da Educação — GOVERNO FEDERAL BRASIL PAÍS RICO É PAÍS SEM POBREZA

PROJETO PADRÃO - FNDE

PROPRIETÁRIO: FUNDO NACIONAL DE DESENVOLVIMENTO DA EDUCAÇÃO - FNDE

ENDEREÇO:

MUNICÍPIO - UF:

PROPRIETÁRIO:

RESP. TÉCNICO: CREA

AUTOR DO PROJETO: CAU

CLIENTE: CREA

ART

OBSERVAÇÕES:

PROGRAMA PROINFÂNCIA - PROJETO TIPO B

PROJETO DE ESTRUTURA DE CONCRETO

RESPONSÁVEL: COEST - Coordenação Geral de Infraestrutura Educacional

PLANTA DE CARGAS NA FUNDAÇÃO

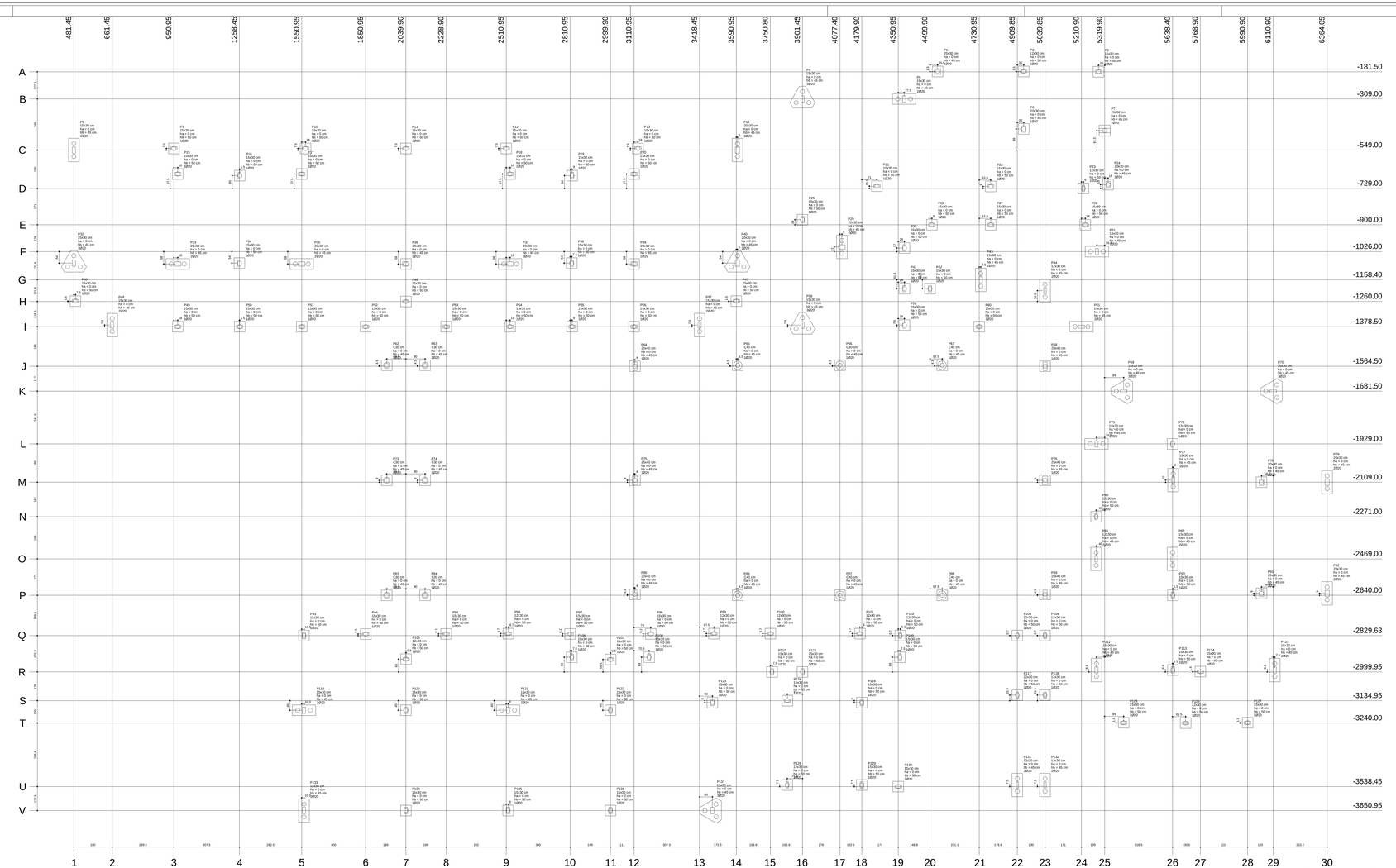
UF: SC

ESCALA: 1:50

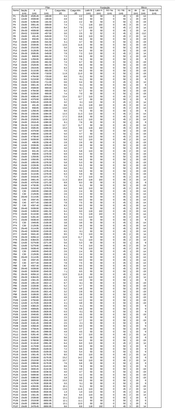
DATA: DEZEMBRO/2012

PRANCHA: 01/19

ARQUIVO: DESENHO



Planta de locação
escala 1:50



Legenda dos blocos
escala 1:25

FNDE Fundo Nacional de Desenvolvimento da Educação

PROJETO PADRÃO - FNDE

PROPRIETÁRIO : FUNDO NACIONAL DE DESENVOLVIMENTO DA EDUCAÇÃO - FNDE

ENDEREÇO :

MUNICÍPIO - UF:

PROPRIETÁRIO

RESP. TÉCNICO — CREA

AUTOR DO PROJETO — CAU

DATA

ÁREA

OBSERVAÇÕES:

PROGRAMA PROINFÂNCIA - PROJETO TIPO B

PROJETO DE ESTRUTURA DE CONCRETO

COORDENAÇÃO: COEST - Coordenação Geral de Infraestrutura Educacional

PLANTA DE LOCAÇÃO FUNDAÇÕES

SC

REVISÃO: R-02

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DATA DA EMISSÃO: DEZEMBRO/2012

PRANCHA: 02/19

FORMATO: A1

DESENHO:

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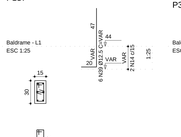

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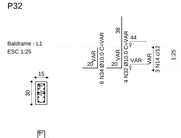

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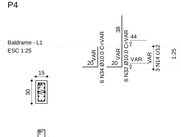

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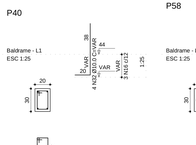

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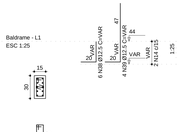

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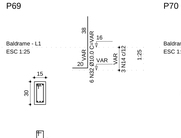

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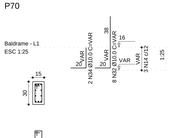

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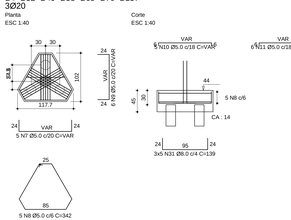

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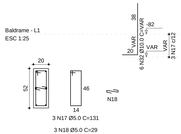

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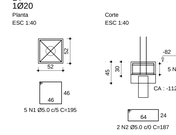

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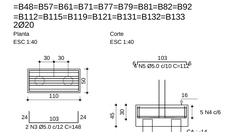

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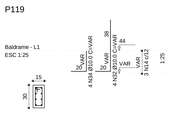

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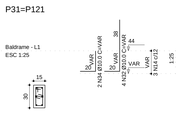

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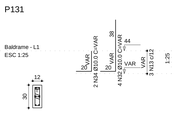

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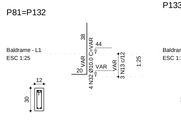

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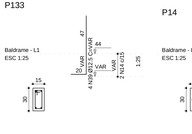

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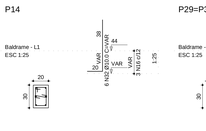

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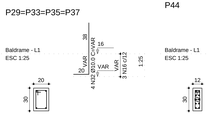

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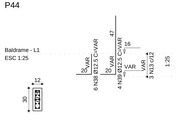

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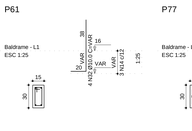

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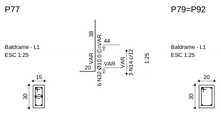

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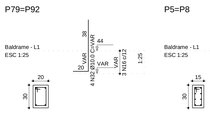

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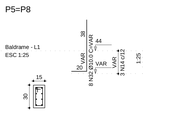

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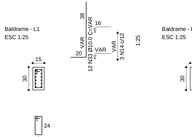
P11



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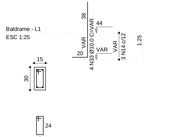

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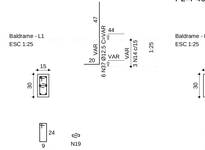

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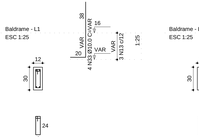

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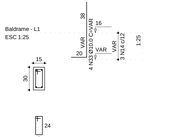

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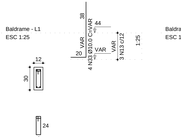

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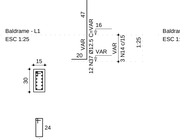

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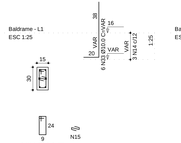

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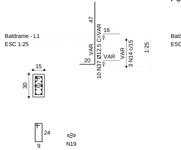

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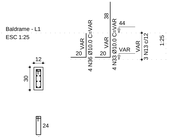

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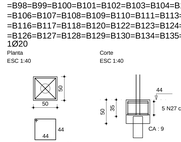
1Ø20



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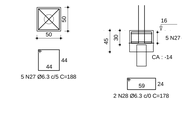
1Ø20



RELAÇÃO DO AÇO

B7	25xB29	7xB58			
25xB91	78xB100	P1			
8xP2	37xP3	P4			
2xP5	P6	P7			
P11	P14	20xP16			
P21	P22	7xP23			
P24	4xP29	2xP31			
P32	3xP36	P39			
P42	P43	4xP44			
P58	P61	6xP62			
3xP64	6xP65	P69			
P70	2xP75	P77			
2xP79	P80	2xP81			
P89	P118	P122			
P130	P131	P133			
P137					

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	5	195	975
	2	5.0	2	187	374
	3	5.0	S2	148	7696
	4	5.0	130	307	39910
	5	5.0	104	112	11648
	6	5.0	130	145	18850
	7	5.0	35	VAR	VAR
	8	5.0	35	VAR	11340
	9	5.0	42	VAR	VAR
	10	5.0	35	VAR	VAR
	11	5.0	42	VAR	VAR
	12	5.0	3	97	291
	13	5.0	60	71	4260
	14	5.0	246	77	18942
	15	5.0	42	87	3654
	16	5.0	42	87	3654
	17	5.0	3	131	393
	18	5.0	9	29	261
	19	5.0	10	24	240
	20	5.0	3	21	63
	21	5.0	18	93	1674
	22	5.0	8	119	952
	23	5.0	18	114	2232
	24	5.0	6	117	702
	25	5.0	6	34	204
	26	5.0	3	21	63
	27	6.3	515	188	96820
	28	6.3	50	178	8900
	29	6.3	150	188	28200
	30	8.0	100	147	14700
	31	8.0	100	139	13900
	32	10.0	260	VAR	VAR
	33	10.0	310	VAR	VAR
	34	10.0	26	VAR	VAR
	35	10.0	2	75	150
	36	10.0	2	VAR	VAR
	37	12.5	28	VAR	VAR
	38	12.5	28	VAR	VAR
	39	12.5	34	VAR	VAR
	40	12.5	2	94	188

RESUMO DO AÇO

AÇO	DIAM	C.TOTAL (m)	PESO+10% (kg)
CA50	6.3	1350.5	363.5
	8.0	337.1	146.3
	10.0	520.9	353.3
	12.5	66.8	70.8
CA60	5.0	1456.3	246.9

PESO TOTAL

CA50	933.9
CA60	246.9

Vol. concreto (C-25) = 23.20 m³

Área de forma total = 192.05 m²

FNDE Fundo Nacional de Desenvolvimento da Educação

BRASIL

PROJETO PADRÃO - FNDE

PROPRIETÁRIO : FUNDO NACIONAL DE DESENVOLVIMENTO DA EDUCAÇÃO - FNDE

ENDEREÇO:

MUNICÍPIO - UF:

PROPRIETÁRIO

RESP. TÉCNICO — CREA

AUTOR DO PROJETO — CAU

DLFO — CREA

RA

OBSERVAÇÕES:

PROGRAMA PROINFÂNCIA - PROJETO TIPO B

PROJETO DE ESTRTURA DE CONCRETO

COORDENAÇÃO: COEST - Coordenação Geral de Infraestrutura Educacional

PLANTA DE BLOCOS DE FUNDAÇÃO

SC

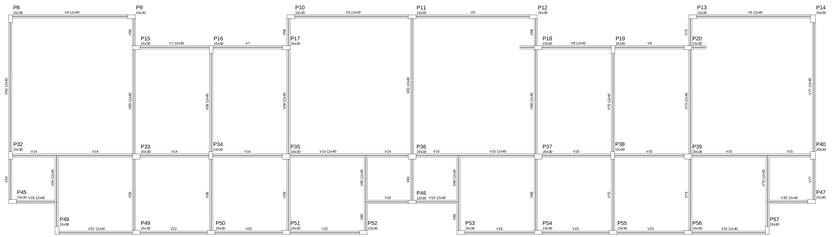
FORMATO: DESENHO

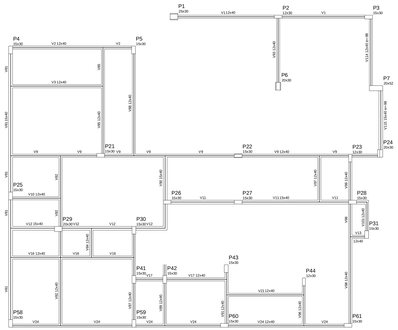
REVISÃO: R-00

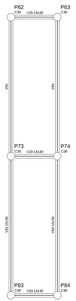
ESCALA: 1:50

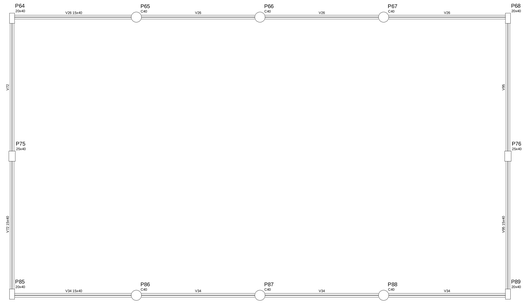
DATA EMISSÃO: DEZEMBRO/2012

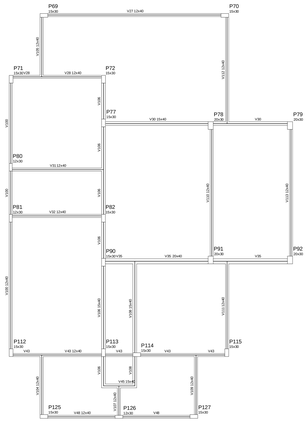
PRANCHA: 03/19

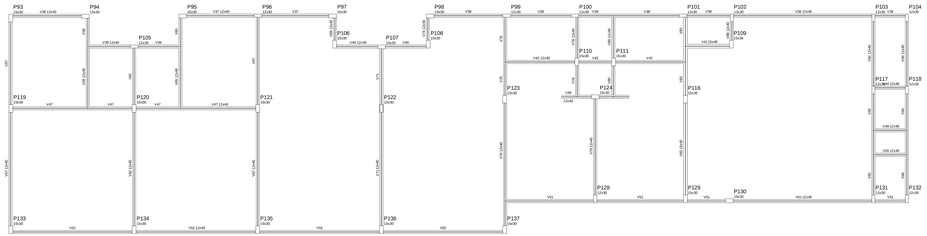












Forma do pavimento Baldrame
escala 1:50

Nome	Seção (cm)	Elevação (cm)	Nível (cm)
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V2	13x40	0	10
V3	13x40	0	10
V4	13x40	0	10
V5	13x40	0	10
V6	13x40	0	10
V7	13x40	0	10
V8	13x40	0	10
V9	13x40	0	10
V10	13x40	0	10
V11	13x40	0	10
V12	13x40	0	10
V13	13x40	0	10
V14	13x40	0	10
V15	13x40	0	10
V16	13x40	0	10
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V18	13x40	0	10
V19	13x40	0	10
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V38	13x40	0	10
V39	13x40	0	10
V40	13x40	0	10
V41	13x40	0	10
V42	13x40	0	10
V43	13x40	0	10
V44	13x40	0	10
V45	13x40	0	10
V46	13x40	0	10
V47	13x40	0	10
V48	13x40	0	10
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V113	13x40	0	10
V114	13x40	0	10
V115	13x40	0	10

Características dos materiais	
Nome	fck
Padrão	Padrão
C	20MPa

FNDE Fundo Nacional de Desenvolvimento da Educação

PROJETO PADRÃO - FNDE

PROPRIETÁRIO: FUNDO NACIONAL DE DESENVOLVIMENTO DA EDUCAÇÃO - FNDE

ENDEREÇO

MUNICÍPIO - UF

PROPRIETÁRIO

RESP. TÉCNICO — CREA

AUTOR DO PROJETO — CAU

ESPAÇO — ÁREA

RIA

OBSERVAÇÕES:

PROGRAMA PROINFÂNCIA - PROJETO TIPO B

PROJETO DE ESTRTURA DE CONCRETO

COORDENAÇÃO: COEST - Coordenação Geral de Infraestrutura Educacional

FORMAS DO BALDRAME

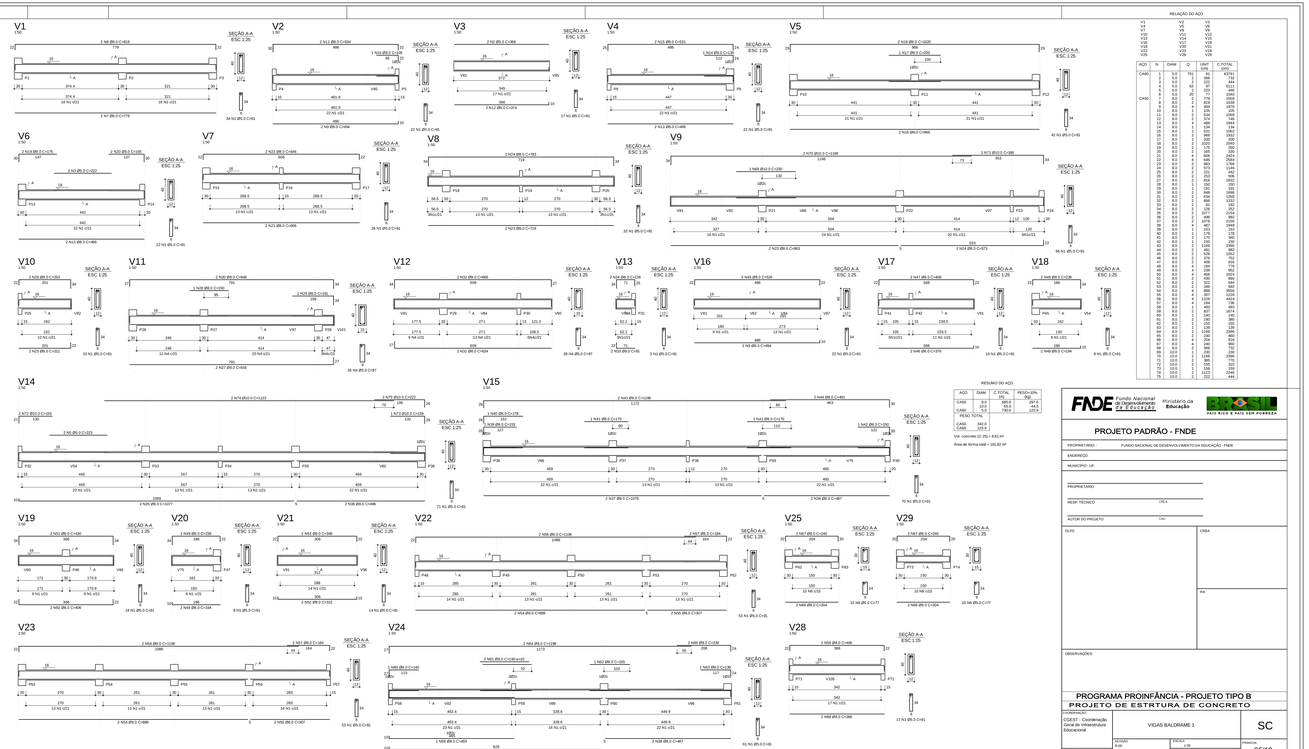
SC

DESENHO: DESENHO

REVISÃO: R-02

DATA: DEZEMBRO/2022

Prancha: 04/19



RELAÇÃO DO AÇO

V1	V2	V3
V4	V5	V6
V7	V8	V9
V10	V11	V12
V13	V14	V15
V16	V17	V18
V19	V20	V21
V22	V23	V24
V25	V28	V29

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA50	1	5.0	701	106	74301
	2	5.0	2	366	732
	3	5.0	4	222	444
	4	5.0	402	107	43014
	5	5.0	2	224	448
	6	5.0	2	107	214
	7	8.0	2	779	1558
	8	8.0	2	778	1556
	9	8.0	2	499	998
	10	8.0	2	498	1076
	11	8.0	1	106	106
	12	8.0	2	107	214
	13	8.0	2	374	748
	14	8.0	2	106	212
	15	8.0	1	134	134
	16	8.0	2	106	212
	17	8.0	2	366	1022
	18	8.0	2	200	200
	19	8.0	2	1022	2044
	20	8.0	2	175	350
	21	8.0	4	165	329
	22	8.0	4	1026	2052
	23	8.0	2	965	2534
	24	8.0	2	1267	2534
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	26	8.0	2	253	506
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	39	8.0	4	1077	2165
	40	8.0	2	178	178
	41	8.0	2	170	340
	42	8.0	2	1139	2278
	43	8.0	2	1139	2278
	44	8.0	2	431	862
	45	8.0	2	376	752
	46	8.0	2	376	752
	47	8.0	4	194	776
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	59	8.0	1	140	140
	60	8.0	1	140	140
	61	8.0	1	155	155
	62	8.0	2	1139	2278
	63	8.0	2	1139	2278
	64	8.0	2	232	466
	65	8.0	2	232	466
	66	8.0	2	240	480
	67	8.0	2	240	480
	68	8.0	2	366	732
	69	8.0	2	366	732
	70	10.0	2	1196	2392
	71	10.0	2	1196	2392
	72	10.0	2	155	310
	73	10.0	2	155	310
	74	10.0	2	1123	2246
	75	10.0	2	222	444

RESUMO DO AÇO

AÇO	DIAM	C.TOTAL (m)	PESO+10% (kg)
CA50	8.0	389.8	257.3
	10.0	66.6	44.6
CA60	5.0	74.0	17.0
PESO TOTAL			
CA50	340.0		
CA60	123.6		

Vol. concreto (C-25) = 8.81 m³

Área de forma total = 161.62 m²

FNDE Fundo Nacional de Desenvolvimento da Educação — Ministério da Educação — BRASIL PAÍS RICO É PAÍS SEM POBREZA

PROJETO PADRÃO - FNDE

PROPRIETÁRIO: FUNDO NACIONAL DE DESENVOLVIMENTO DA EDUCAÇÃO - FNDE

ENDEREÇO:

MUNICÍPIO - UF:

PROPRIETÁRIO:

RESP. TÉCNICO: CREA:

AUTOR DO PROJETO: CAU:

DATA: CREA:

RT:

OBSERVAÇÕES:

PROGRAMA PROINFÂNCIA - PROJETO TIPO B
PROJETO DE ESTRTURA DE CONCRETO

COORDENAÇÃO: CGEST - Coordenação Geral de Infraestrutura Educacional

VIGAS BALDRAME 1

SC

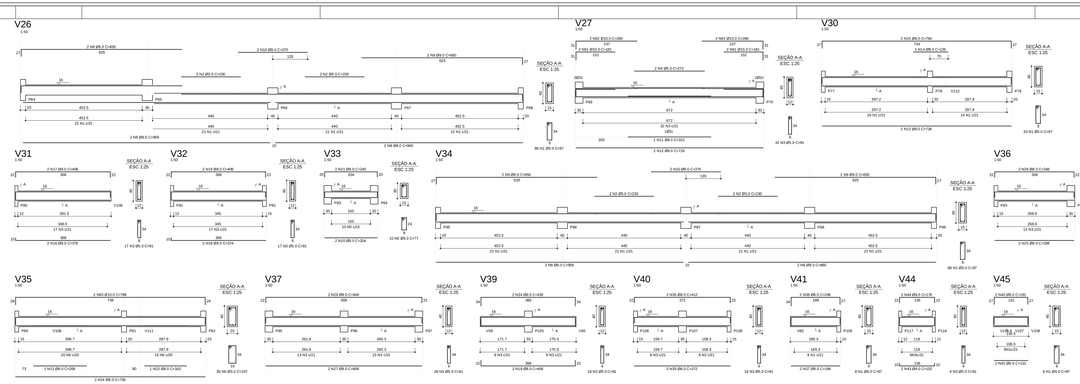
REVISÃO: R-00

ESCALA: 1:50

DATA DA EMISSÃO: DEZEMBRO/2012

FOLHA: 05/19

FORMATO: DESENHO



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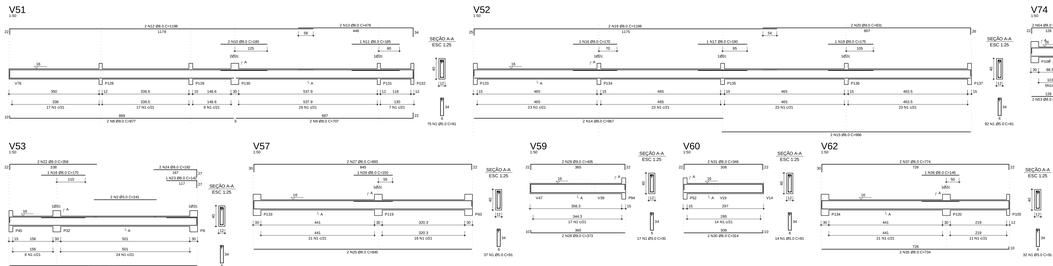
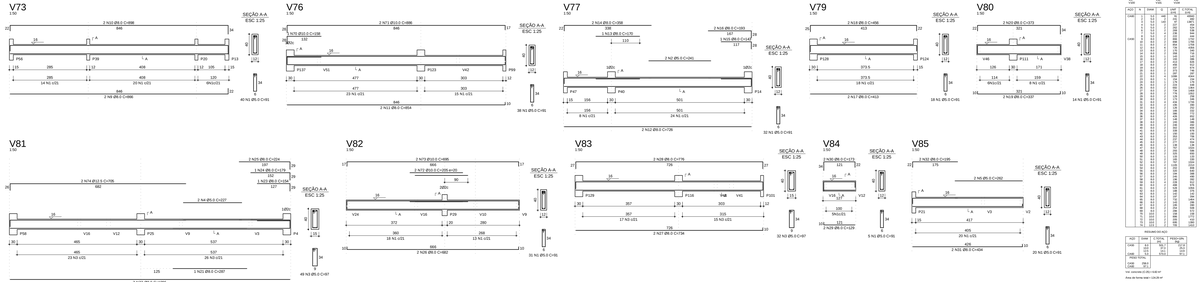
	1.0	1.6	2.5	3.9	6.1
	2.0	3.2	5.0	7.9	12.3
	3.0	4.8	7.5	11.8	18.4
	4.0	6.4	10.0	15.7	24.5
	5.0	8.0	12.5	19.6	30.6
	6.0	9.6	15.0	23.6	36.8
	7.0	11.2	17.5	27.5	42.9
	8.0	12.8	20.0	31.4	49.0
	9.0	14.4	22.5	35.3	55.1
	10.0	16.0	25.0	39.3	61.3
	11.0	17.6	27.5	43.2	67.4
	12.0	19.2	30.0	47.1	73.5
	13.0	20.8	32.5	51.0	79.6
	14.0	22.4	35.0	55.0	85.8
	15.0	24.0	37.5	58.9	91.9
	16.0	25.6	40.0	62.8	98.0
	17.0	27.2	42.5	66.7	104.1
	18.0	28.8	45.0	70.7	110.3
	19.0	30.4	47.5	74.6	116.4
	20.0	32.0	50.0	78.5	122.5
	21.0	33.6	52.5	82.4	128.6
	22.0	35.2	55.0	86.4	134.8
	23.0	36.8	57.5	90.3	140.9
	24.0	38.4	60.0	94.2	147.0
	25.0	40.0	62.5	98.1	153.1



RELAÇÃO DO AÇO

V51	V52	V53	V57
V59	V60	V61	V62
V63	V64	V65	V66
V67	V68	V70	V71
V72	V74	V75	V76
V78			

AÇO	N	Diâm.	C	Qtd	C. TOTAL (cm)
CA60	1	5.0	48	48	48
	2	5.0	48	48	96
	3	5.0	8	768	6144
	4	5.0	48	48	2304
	5	5.0	48	48	2304
CA50	6	6.3	4	577	2308
	7	6.3	4	577	2308
	8	6.3	4	577	2308



RELAÇÃO DO AÇO

CA25	CA50	CA60
5.0	6.3	4.2
6.3	8.0	5.0
8.0	10.0	6.0
10.0	12.5	7.0
12.5	16.0	8.0
16.0	20.0	9.0
20.0	25.0	10.0
25.0	32.0	11.0
32.0	40.0	12.0
40.0		13.0
		14.0
		15.0
		16.0

AÇO	N	DIAM.	B	BAR.	C. TOTAL
CA60	1	5.0	40	40	40
	2	5.0	40	40	80
	3	5.0	40	40	120
	4	5.0	40	40	160
	5	5.0	40	40	200
CA50	1	6.3	40	40	40
	2	6.3	40	40	80
	3	6.3	40	40	120
	4	6.3	40	40	160
	5	6.3	40	40	200
	6	6.3	40	40	240
	7	6.3	40	40	280
	8	6.3	40	40	320
	9	6.3	40	40	360
	10	6.3	40	40	400
	11	6.3	40	40	440
	12	6.3	40	40	480
	13	6.3	40	40	520
	14	6.3	40	40	560
	15	6.3	40	40	600
	16	6.3	40	40	640
	17	6.3	40	40	680
	18	6.3	40	40	720
	19	6.3	40	40	760
	20	6.3	40	40	800
	21	6.3	40	40	840
	22	6.3	40	40	880
	23	6.3	40	40	920
	24	6.3	40	40	960
	25	6.3	40	40	1000
	26	6.3	40	40	1040
	27	6.3	40	40	1080
	28	6.3	40	40	1120
	29	6.3	40	40	1160
	30	6.3	40	40	1200
	31	6.3	40	40	1240
	32	6.3	40	40	1280
	33	6.3	40	40	1320
	34	6.3	40	40	1360
	35	6.3	40	40	1400
	36	6.3	40	40	1440
	37	6.3	40	40	1480
	38	6.3	40	40	1520
	39	6.3	40	40	1560
	40	6.3	40	40	1600
	41	6.3	40	40	1640
	42	6.3	40	40	1680
	43	6.3	40	40	1720
	44	6.3	40	40	1760
	45	6.3	40	40	1800
	46	6.3	40	40	1840
	47	6.3	40	40	1880
	48	6.3	40	40	1920
	49	6.3	40	40	1960
	50	6.3	40	40	2000
	51	6.3	40	40	2040
	52	6.3	40	40	2080
	53	6.3	40	40	2120
	54	6.3	40	40	2160
	55	6.3	40	40	2200
	56	6.3	40	40	2240
	57	6.3	40	40	2280
	58	6.3	40	40	2320
	59	6.3	40	40	2360
	60	6.3	40	40	2400
	61	6.3	40	40	2440
	62	6.3	40	40	2480
	63	6.3	40	40	2520
	64	6.3	40	40	2560
	65	6.3	40	40	2600
	66	6.3	40	40	2640
	67	6.3	40	40	2680
	68	6.3	40	40	2720
	69	6.3	40	40	2760
	70	6.3	40	40	2800
	71	6.3	40	40	2840
	72	6.3	40	40	2880
	73	6.3	40	40	2920
	74	6.3	40	40	2960
	75	6.3	40	40	3000
	76	6.3	40	40	3040
	77	6.3	40	40	3080
	78	6.3	40	40	3120
	79	6.3	40	40	3160
	80	6.3	40	40	3200
	81	6.3	40	40	3240
	82	6.3	40	40	3280
	83	6.3	40	40	3320
	84	6.3	40	40	3360
	85	6.3	40	40	3400
	86	6.3	40	40	3440
	87	6.3	40	40	3480
	88	6.3	40	40	3520
	89	6.3	40	40	3560
	90	6.3	40	40	3600
	91	6.3	40	40	3640
	92	6.3	40	40	3680
	93	6.3	40	40	3720
	94	6.3	40	40	3760
	95	6.3	40	40	3800
	96	6.3	40	40	3840
	97	6.3	40	40	3880
	98	6.3	40	40	3920
	99	6.3	40	40	3960
	100	6.3	40	40	4000

AÇO	DIAM.	C. TOTAL	PESO/KG
CA50	6.3	29.1	18.0
	8.0	29.1	29.2
CA60	5.0	29.1	11.3
TOTAL			58.5

VOL. ARMADURA (2.5%) = 0.58 M³

Área da fonte total = 123.29 m²

FNDE Fundo Nacional de Desenvolvimento da Educação
Ministério da Educação

PROJETO PADRÃO - FNDE

PROPRIETÁRIO: FUNDO NACIONAL DE DESENVOLVIMENTO DA EDUCAÇÃO - FNDE

ENDEREÇO:

MUNICÍPIO - UF:

PROPRIETÁRIO

RESP. TÉCNICO — CREA

AUTOR DO PROJETO — CAU

ESTADO

CREA

RUA

OBSERVAÇÕES:

PROGRAMA PROINFÂNCIA - PROJETO TIPO B
PROJETO DE ESTRTURA DE CONCRETO

COORDENAÇÃO: COEST - Coordenação Geral de Infraestrutura Educacional

VIGAS BALDRAME 4

SC

CONTEÚDO: DESENHO

ESCALA: 1:50

FORMATO: A1

DATA: DEZEMBRO/2019

PRANCHA: 08/19

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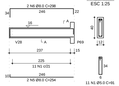
V105
1:20



V106

V106
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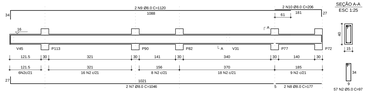
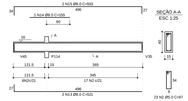


V107

V107
1:20

V108

V108
1:20



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V109
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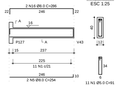

V110

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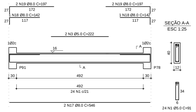
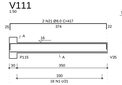


V111

V111
1:20



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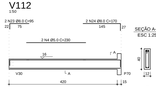
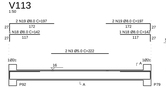
V112
1:20



V113

V113
1:20



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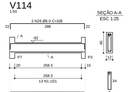
V114
1:20



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V115
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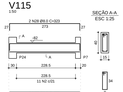

RELAÇÃO DO AÇO

V105 V106 V107
V108 V109 V110
V111 V112 V113
V114 V115

AÇO	N	Comp.	Q	Unit (cm)	C. TOTAL (cm)
CA50	1	5.0	125	81	10171
	2	5.0	4	222	889
	3	5.0	4	232	929
	4	5.0	4	242	969
	5	8.0	2	198	3168
	6	8.0	2	198	3168
	7	8.0	2	177	354
	8	8.0	2	177	354
	9	8.0	2	1109	4436
	10	8.0	2	1109	4436
	11	8.0	2	140	280
	12	8.0	2	140	280
	13	8.0	2	531	1062
	14	8.0	2	531	1062
	15	8.0	2	553	1106
	16	8.0	2	286	572
	17	8.0	2	286	572
	18	8.0	4	142	568
	19	8.0	2	1074	2148
	20	8.0	2	1074	2148
	21	8.0	2	429	858
	22	8.0	2	95	190
	23	8.0	2	95	190
	24	8.0	2	158	316
	25	8.0	2	158	316
	26	8.0	2	273	546
	27	8.0	2	203	406

RESUMO DO AÇO

AÇO	Comp.	C. TOTAL (m)	PESO/ UN. (kg)
CA50	8.0	115.5	90.5
CA50	5.0	115.5	35.5
PESO TOTAL			
CA50	39.5		
CA60	39.5		

Vol. concreto (C-25) = 2.58 m³

Área de forma total = 45.16 m²

FNDE Fundo Nacional de Desenvolvimento da Educação — Ministério da Educação — BRASIL PAÍS RICO É PAÍS SEM POBREZA

PROJETO PADRÃO - FNDE

PROPRIETÁRIO: FUNDO NACIONAL DE DESENVOLVIMENTO DA EDUCAÇÃO - FNDE

ENDEREÇO:

MUNICÍPIO - UF:

PROPRIETÁRIO:

RESP. TÉCNICO: CREA

AUTOR DO PROJETO: CAU

OLFO

ÁREA

RIA

OBSERVAÇÕES:

PROGRAMA PROINFÂNCIA - PROJETO TIPO B

PROJETO DE ESTRTURA DE CONCRETO

COORDENAÇÃO: COESTI - Coordenação Geral de Infraestrutura Educacional

VIGAS BALDRAME 5

SC

PROJETO: 01-00

ESCALA: 1:20

DATA EMISSÃO: DEZEMBRO/2019

Prancha: 09/19

CONTEÚDO: DESENHO

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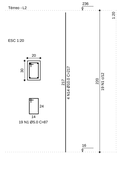

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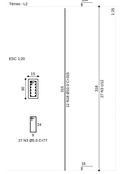

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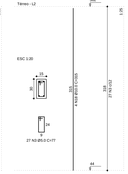

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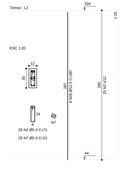

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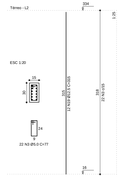

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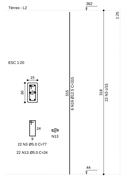

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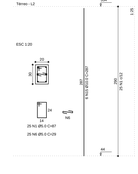

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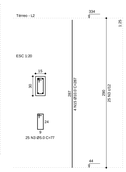
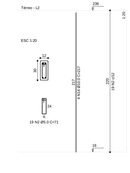
=P119=P120=P121=P123=P129=P134=P135=P136





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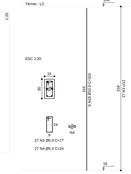

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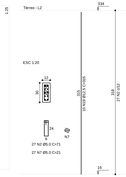


RELAÇÃO DO AÇO

P1	P2	P3
CA-H	CA-I	P6
P7	40x25	P11
P14	40x30	P21
P22	EsP10	P25
P30	EsP12	P30
P34	EsP16	P31
P38	EsP20	P32
P43	EsP25	P34
P48	EsP32	P38
P52	EsP40	P43
P59	EsP50	P48
P71	P110	P52
P72	P111	P59
P82	P122	P71
P83	P130	P72
P109	P137	P82
P112		P83
P113		P109
P115		P112
P119		P113
P120		P115
P121		P119
P123		P120
P129		P121
P134		P123
P135		P129
P136		P134
		P135
		P136

AÇO	N	DIAM	IQ	UNIT	C TOTAL
		(mm)		(m)	(m)
CA50	1	5.0	117	2.47	290.0
	2	5.0	594	7.1	4149.4
	3	5.0	1170	2.1	2457.0
	4	5.0	72	14	1008
	5	5.0	42	12.1	508.2
	6	5.0	84	7.55	633.9
	7	5.0	42	12.1	508.2
	8	5.0	532	2.1	1129.6
	9	5.0	88	107	9416
	10	5.0	88	117	10296
	11	5.0	14	117	1638
	12	5.0	14	94	1316
	13	5.0	28	7.55	211.4
	14	10.0	117	2.47	289.0
	15	10.0	594	7.1	4217.4
	16	10.0	6	169	1014
	17	10.0	12	94	1128
	18	10.0	364	113	11466
	19	12.5	84	315	19215
	20	12.5	84	197	4532

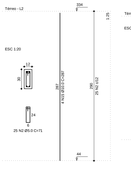
RESUMO DO AÇO

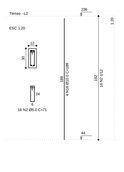
AÇO	DIAM	C TOTAL	PESO+10%
	(mm)	(m)	(kg)
CA50	10.0	5239.4	3231.8
CA60	5.0	1351.6	350.8
	6.0	2984.8	930.7
PESO TOTAL			4513.3
CA50	1274.4		
CA60	1237.7		

Vol. concreto 4C (Tc) = 0.88 m³

Área de forma total = 382.79 m²

P23=P80=P81=P103=P104=P117=P118=P132P24





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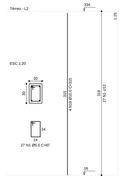

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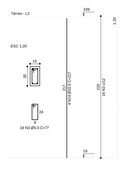

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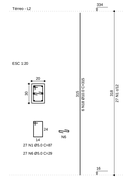

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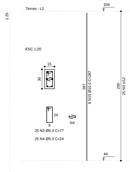

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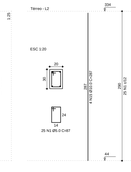

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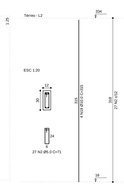
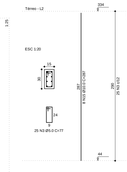
=P128=P131





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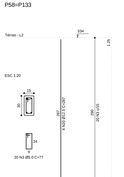

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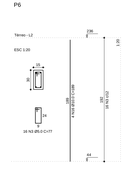

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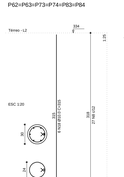

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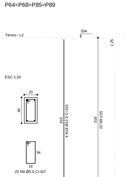

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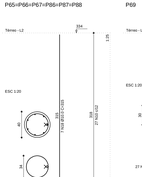

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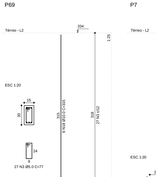

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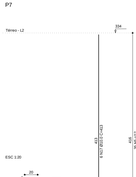

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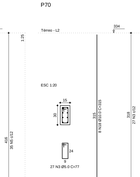

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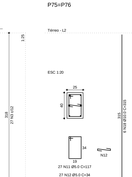

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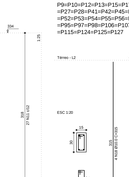
=P27=P28=P41=P42=P45=P47=P49=P50=P51
=P52=P53=P54=P55=P56=P90=P91=P93=P94
=P95=P97=P98=P106=P107=P108=P110=P114
=P115=P124=P125=P127



FNDE Fundo Nacional de Desenvolvimento da Educação

PROJETO PADRÃO - FNDE

PROPRIETÁRIO : FUNDO NACIONAL DE DESENVOLVIMENTO DA EDUCAÇÃO - FNDE

ENDEREÇO

MUNICÍPIO - UF:

PROPRIETÁRIO

RESP. TÉCNICO CREA

AUTOR DO PROJETO CAU

DATA

ÁREA

RA

OBSERVAÇÕES

PROGRAMA PROINFÂNCIA - PROJETO TIPO B

PROJETO DE ESTRTURA DE CONCRETO

COORDENAÇÃO: CGEST/ - Coordenação Geral de Infraestrutura Educacional

PILARES DO TÉRREO

SC

ESCALA: 1:20

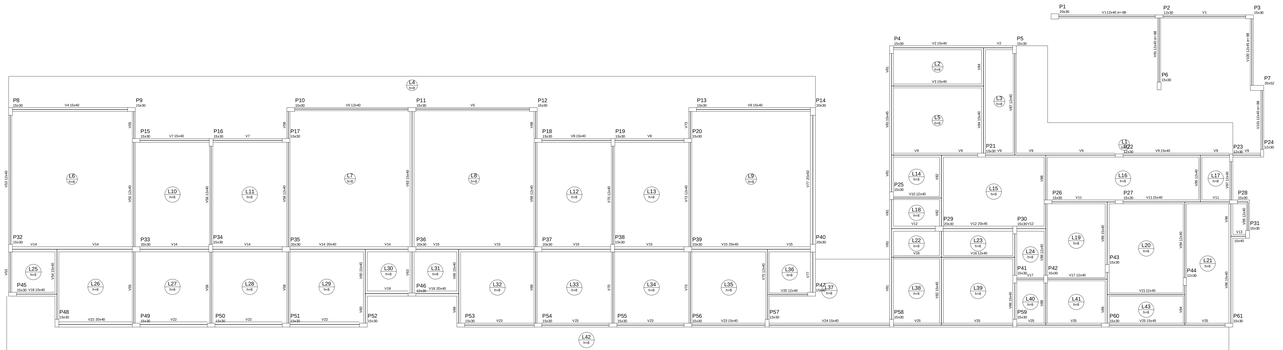
DESENHO: P1 ao P136

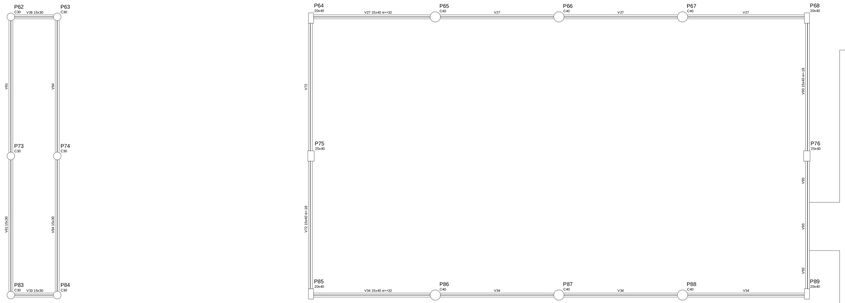
DATA: 09/19

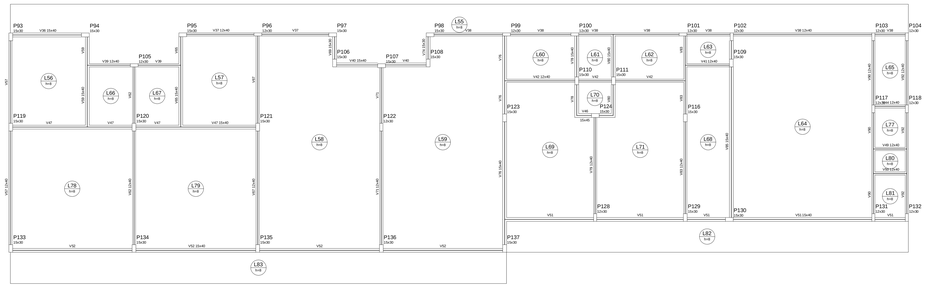
FORMATO: A1

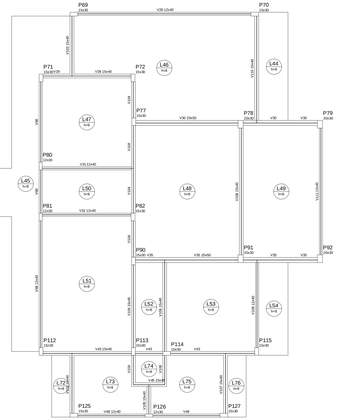
ARQUIVO: DESENHO

FOLHA: 09/19









Forma do pavimento Térreo
escala 1:50

Nome	Seção (cm)	Extensão (cm)	Nível (cm)
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V2	15x40	0	334
V3	15x40	0	334
V4	15x40	0	334
V5	15x40	0	334
V6	15x40	0	334
V7	15x40	0	334
V8	15x40	0	334
V9	15x40	0	334
V10	12x40	0	334
V11	12x40	0	334
V12	20x40	0	334
V13	20x40	0	334
V14	20x40	0	334
V15	12x40	0	334
V16	12x40	0	334
V17	15x40	0	334
V18	15x40	0	334
V19	20x40	0	334
V20	20x40	0	334
V21	12x40	0	334
V22	20x40	0	334
V23	20x40	0	334
V24	15x40	0	334
V25	15x40	0	334
V26	15x40	0	334
V27	15x40	32	366
V28	12x40	0	334
V29	15x40	0	334
V30	15x50	0	334
V31	12x40	0	334
V32	15x40	0	334
V33	15x50	0	334
V34	15x40	32	366
V35	15x40	0	334
V36	15x40	0	334
V37	12x40	0	334
V38	12x40	0	334
V39	12x40	0	334
V40	15x40	0	334
V41	12x40	0	334
V42	12x40	0	334
V43	15x40	0	334
V44	15x40	0	334
V45	15x40	0	334
V46	15x40	0	334
V47	12x40	0	334
V48	15x40	0	334
V49	15x40	0	334
V50	15x40	0	334
V51	15x40	0	334
V52	15x40	0	334
V53	15x40	0	334
V54	15x40	0	334
V55	12x40	0	334
V56	12x40	0	334
V57	12x40	0	334
V58	12x40	0	334
V59	15x40	0	334
V60	15x40	0	334
V61	15x30	0	334
V62	15x40	0	334
V63	15x40	0	334
V64	15x40	0	334
V65	15x40	0	334
V66	12x40	0	334
V67	12x40	0	334
V68	15x30	0	334
V69	15x40	0	334
V70	12x40	0	334
V71	12x40	0	334
V72	12x40	0	334
V73	12x40	0	334
V74	15x40	0	334
V75	15x40	0	334
V76	12x40	0	334
V77	15x40	0	334
V78	15x40	0	334
V79	12x40	0	334
V80	15x40	0	334
V81	15x40	0	334
V82	15x40	0	334
V83	15x40	0	334
V84	15x40	0	334
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V86	15x40	0	334
V87	12x40	0	334
V88	12x40	0	334
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V98	12x40	0	334
V99	12x40	0	334
V100	12x40	0	334
V101	15x40	0	334
V102	15x40	0	334
V103	15x40	0	334
V104	15x40	0	334
V105	15x40	0	334
V106	15x40	0	334
V107	15x40	0	334
V108	15x40	0	334
V109	12x40	0	334
V110	12x40	0	334
V111	12x40	0	334

Características dos materiais	
Aço	
Aço	Aço
Nome	Valor
fyk	50000

FNDE Fundo Nacional de Desenvolvimento da Educação

PROJETO PADRÃO - FNDE

PROPRIETÁRIO : FUNDO NACIONAL DE DESENVOLVIMENTO DA EDUCAÇÃO - FNDE

ENDEREÇO :

MUNICÍPIO - UF:

PROPRIETÁRIO

RESP. TÉCNICO — CREA

AUTOR DO PROJETO — CAU

ÁREA

Ala

OBSERVAÇÕES:

PROGRAMA PROINFÂNCIA - PROJETO TIPO B

PROJETO DE ESTRTURA DE CONCRETO

COORDENAÇÃO: COEST - Coordenação Geral de Infraestrutura Educacional

FORMAS TÉRREO

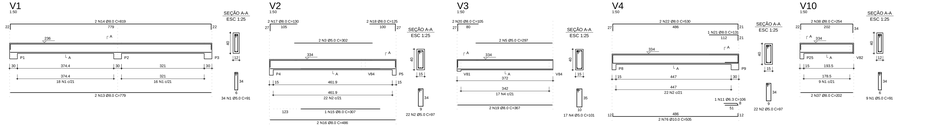
ESCALA: 1:50

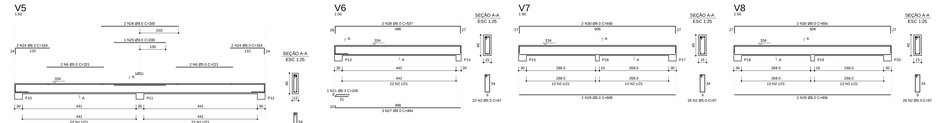
DATA DE EMISSÃO: DEZEMBRO/2012

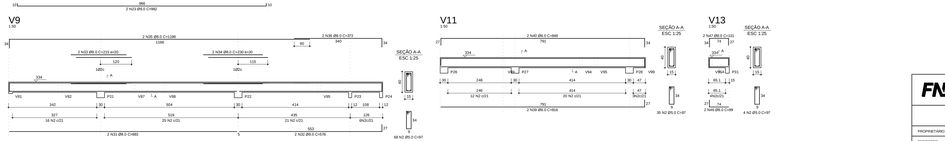
PRANCHA: 10/19

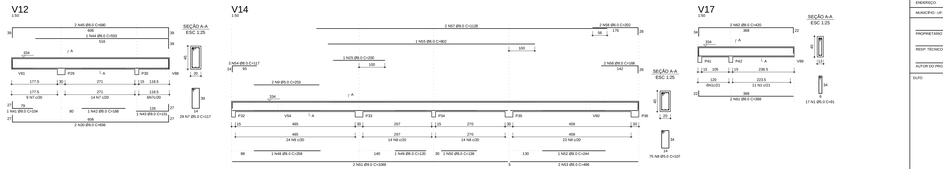
SC

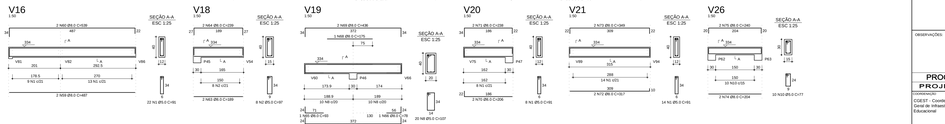
DESENHO: DESENHO











RELAÇÃO DE AÇO

AÇO	Ø	QUANT	COMP	PESO
CA25	5.0	1	1.00	0.15
	6.3	1	1.00	0.24
	8.0	1	1.00	0.39
	10.0	1	1.00	0.62
	12.5	1	1.00	0.96
	16.0	1	1.00	1.58
	20.0	1	1.00	2.47
	22.0	1	1.00	2.98
	25.0	1	1.00	3.85
	32.0	1	1.00	6.31
	40.0	1	1.00	9.86
CA50	5.0	1	1.00	0.15
	6.3	1	1.00	0.24
	8.0	1	1.00	0.39
	10.0	1	1.00	0.62
	12.5	1	1.00	0.96
	16.0	1	1.00	1.58
	20.0	1	1.00	2.47
	22.0	1	1.00	2.98
	25.0	1	1.00	3.85
	32.0	1	1.00	6.31
	40.0	1	1.00	9.86

RESUMO DE AÇO

AÇO	5.0	6.3	8.0	10.0	12.5	TOTAL (KG)
CA25	0.0	0.0	0.0	0.0	0.0	0.0
CA50	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0
PESO (KG)	0.0	0.0	0.0	0.0	0.0	

Área de forma total = 0.0 m²

Área de forma equiv. (0.5) = 0.0 m²

FCK	25
FCK28	25
FCK7	17.5
FCK14	21
FCK21	23
FCK28	25
FCK35	28
FCK42	30

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PROJETO PADRÃO - FNDE

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ENDEREÇO:

MUNICÍPIO - UF:

PROPRIETÁRIO:

RESP. TÉCNICO: CREA:

AUTOR DO PROJETO: CAU:

DATA: CREA:

ART:

OBSERVAÇÕES:

PROGRAMA PROINFÂNCIA - PROJETO TIPO B

PROJETO DE ESTRTURA DE CONCRETO

COORDENAÇÃO: COEST - Coordenação Geral de Infraestrutura Educacional

VIGAS TÉRREO 1

SC

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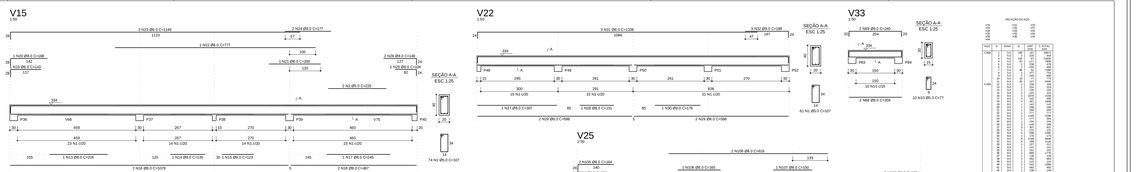
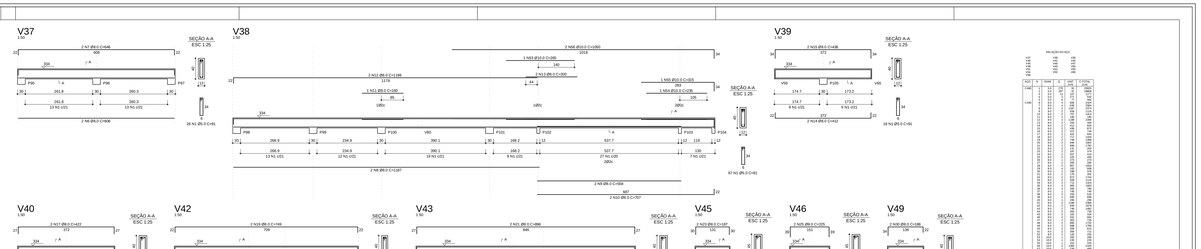
FORMATO: A1 (0)

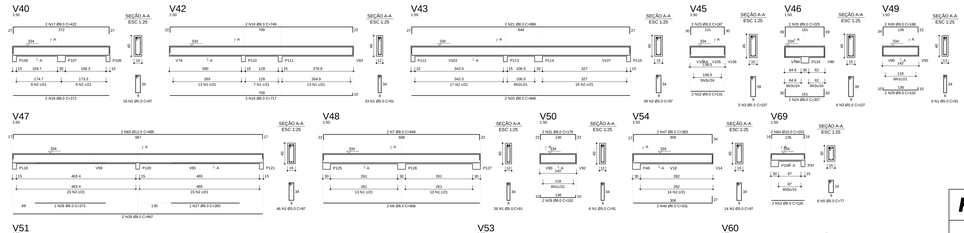
DESENHO:

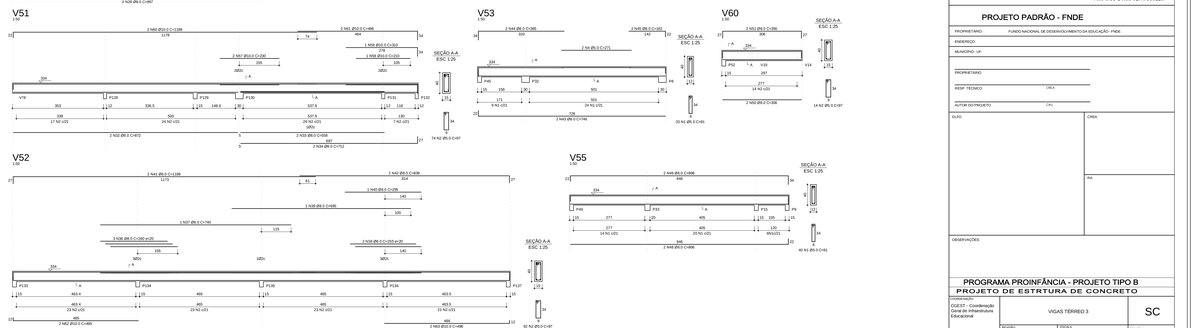
ARQUIVO: DESENHO01012

PRANCHA: 12/19


V15
1:50
2 N23 Ø8.0 C=1149
1123
2 N24 Ø8.0 C=77
57
1 N22 Ø8.0 C=777
1 N20 Ø8.0 C=108
542
537
1 N18 Ø8.0 C=142
137
1 N21 Ø8.0 C=280
100
100
1 N25 Ø8.0 C=1
1
2 N26 Ø8.0 C=146
137
1 N25 Ø8.0 C=1
1
2 N2 Ø5.0 C=226
334
P36
V68
P37
P38
V69
P39
V75
P40
458
267
270
460
22 N1 c/20
14 N1 c/20
14 N1 c/20
23 N1 c/20
155
120
145
1 N12 Ø8.0 C=124
1 N14 Ø8.0 C=126
30
2 N15 Ø8.0 C=123
1 N17 Ø8.0 C=145
2 N16 Ø8.0 C=1079
5
2 N18 Ø8.0 C=467
SEÇÃO A-A
ESC 1:25
20
34
74 N1 Ø5.0 C=107
V22
1:50
3 N31 Ø8.0 C=1108
1086
3 N32 Ø8.0 C=108
47
47
334
P48
P49
P50
P51
P52
295
295
291
291
270
15 N1 c/20
15 N1 c/20
31 N1 c/20
300
298
1 N27 Ø8.0 C=1007
85
1 N28 Ø8.0 C=1101
85
1 N30 Ø8.0 C=1176
5
3 N29 Ø8.0 C=1096
1 N29 Ø8.0 C=1099
SEÇÃO A-A
ESC 1:25
34
61 N1 Ø5.0 C=107
V33
1:50
2 N35 Ø8.0 C=240
204
P63
P64
100
10 N10 c/20
2 N66 Ø8.0 C=154
SEÇÃO A-A
ESC 1:25
34
10 N10 Ø5.0 C=77
RELAÇÃO DO AÇO
V15 1 N1 1 N2 1 N3 1 N4 1 N5 1 N6 1 N7 1 N8 1 N9 1 N10 1 N11 1 N12 1 N13 1 N14 1 N15 1 N16 1 N17 1 N18 1 N19 1 N20 1







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3	5.0	0.0	0.0	0.0
4	5.0	0.0	0.0	0.0
5	5.0	0.0	0.0	0.0
6	5.0	0.0	0.0	0.0
7	5.0	0.0	0.0	0.0
8	5.0	0.0	0.0	0.0
9	5.0	0.0	0.0	0.0
10	5.0	0.0	0.0	0.0
11	5.0	0.0	0.0	0.0
12	5.0	0.0	0.0	0.0
13	5.0	0.0	0.0	0.0
14	5.0	0.0	0.0	0.0
15	5.0	0.0	0.0	0.0
16	5.0	0.0	0.0	0.0
17	5.0	0.0	0.0	0.0
18	5.0	0.0	0.0	0.0
19	5.0	0.0	0.0	0.0
20	5.0	0.0	0.0	0.0
21	5.0	0.0	0.0	0.0
22	5.0	0.0	0.0	0.0
23	5.0	0.0	0.0	0.0
24	5.0	0.0	0.0	0.0
25	5.0	0.0	0.0	0.0
26	5.0	0.0	0.0	0.0
27	5.0	0.0	0.0	0.0
28	5.0	0.0	0.0	0.0
29	5.0	0.0	0.0	0.0
30	5.0	0.0	0.0	0.0
31	5.0	0.0	0.0	0.0
32	5.0	0.0	0.0	0.0
33	5.0	0.0	0.0	0.0
34	5.0	0.0	0.0	0.0
35	5.0	0.0	0.0	0.0
36	5.0	0.0	0.0	0.0
37	5.0	0.0	0.0	0.0
38	5.0	0.0	0.0	0.0
39	5.0	0.0	0.0	0.0
40	5.0	0.0	0.0	0.0
41	5.0	0.0	0.0	0.0
42	5.0	0.0	0.0	0.0
43	5.0	0.0	0.0	0.0
44	5.0	0.0	0.0	0.0
45	5.0	0.0	0.0	0.0
46	5.0	0.0	0.0	0.0
47	5.0	0.0	0.0	0.0
48	5.0	0.0	0.0	0.0
49	5.0	0.0	0.0	0.0
50	5.0	0.0	0.0	0.0
51	5.0	0.0	0.0	0.0
52	5.0	0.0	0.0	0.0
53	5.0	0.0	0.0	0.0
54	5.0	0.0	0.0	0.0
55	5.0	0.0	0.0	0.0
60	5.0	0.0	0.0	0.0
69	5.0	0.0	0.0	0.0
CAD	5.0	0.0	0.0	0.0
TOTAL	5.0	0.0	0.0	0.0

AÇO	DIAM.	TOTAL	PESO (KG)
CA50	5.0	0.0	0.0
	6.3	0.0	0.0
	8.0	0.0	0.0
CA60	5.0	0.0	0.0
	6.0	0.0	0.0
CAD	5.0		
TOTAL	5.0		

Vol. concreto: 0.00 m³/ 0.00 m²

Área de forma total = 0.00 m²

FNDE	Fundo Nacional de Desenvolvimento da Educação	Ministério da Educação	BRASIL PAÍS RICO É PAÍS SEM POBREZA

PROJETO PADRÃO - FNDE

PROPRIETÁRIO: FUNDO NACIONAL DE DESENVOLVIMENTO DA EDUCAÇÃO - FNDE

ENDEREÇO:

MUNICÍPIO - UF:

PROPRIETÁRIO:

RESP. TÉCNICO: CREA

AUTOR DO PROJETO: CAU

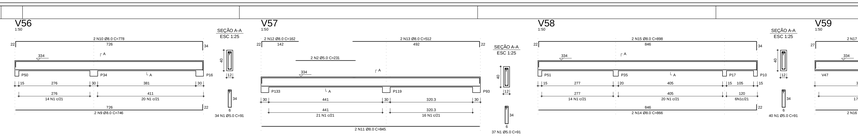
DATA: CREA

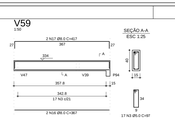
RT:

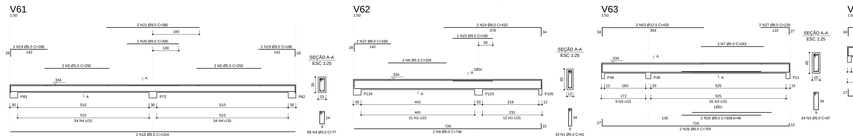
OBSERVAÇÕES:

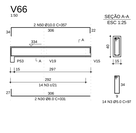
PROGRAMA PROINFÂNCIA - PROJETO TIPO B
PROJETO DE ESTRTURA DE CONCRETO

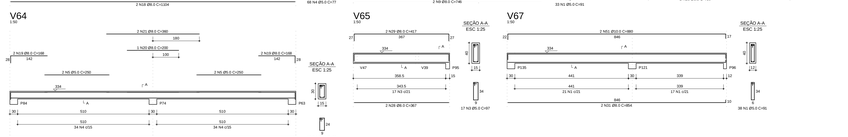
COORDENAÇÃO: COEDI - Coordenação Geral de Infraestrutura Educacional	VIGAS TÉRREO 3	SC
PROJETO: DESENHO:	REVISÃO: 04-00	ESCALA: 1:50 DATA(S): DEZEMBRO/2011	PRANCHA: 14/19

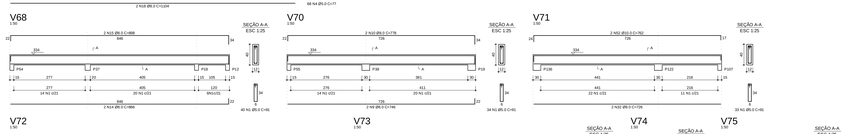


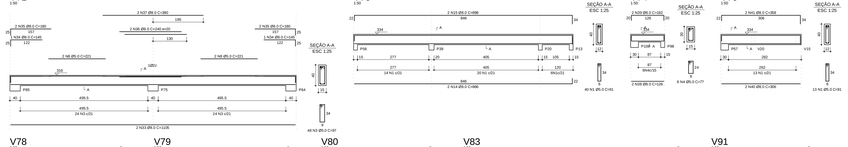


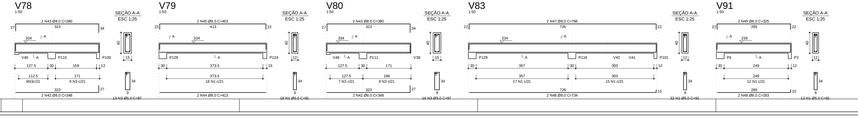












RELAÇÃO DO AÇO

V56	V67	V58
V59	V61	V62
V63	V64	V65
V66	V67	V68
V70	V71	V72
V73	V74	V75
V78	V79	V80
V83	V91	V92

AÇO	N	DIAM	Q	UNIT (m)	C. TOTAL (m)
CA60	1	5.0	424	91	38744
	2	5.0	12	231	462
	3	5.0	12	117	1404
	4	5.0	142	57	13584
	5	5.0	2	205	410
	6	5.0	2	231	462
	7	5.0	2	221	884
	8	5.0	4	221	884
CA50	9	8.0	4	746	4476
	10	8.0	2	1324	2648
	11	8.0	2	345	690
	12	8.0	2	512	1024
	13	8.0	2	362	724
	14	8.0	4	368	1472
	15	8.0	4	368	1472
	16	8.0	2	367	734
	17	8.0	2	357	714
	18	8.0	4	1154	4616
	19	8.0	4	338	1352
	20	8.0	2	746	1492
	21	8.0	2	362	724
	22	8.0	2	357	714
	23	8.0	2	155	155
	24	8.0	2	155	155
	25	8.0	2	358	716
	26	8.0	2	759	1518
	27	8.0	2	357	714
	28	8.0	2	367	734
	29	8.0	2	357	714
	30	8.0	2	831	662
	31	8.0	2	1154	2308
	32	8.0	2	726	1452
	33	8.0	2	1105	2210
	34	8.0	2	1154	2308
	35	8.0	4	180	720
	36	8.0	2	240	480
	37	8.0	2	1154	2308
	38	8.0	2	123	252
	39	8.0	2	1154	2308
	40	8.0	2	309	617
	41	8.0	2	309	617
	42	8.0	4	368	1382
	43	8.0	4	383	1535
	44	8.0	2	453	906
	45	8.0	2	453	906
	46	8.0	2	786	1572
	47	8.0	2	786	1572
	48	8.0	2	283	566
	49	8.0	2	329	658
	50	10.0	2	357	714
	51	10.0	2	357	714
	52	12.5	2	782	1564
	53	12.5	2	429	858

RESUMO DO AÇO

AÇO	DIAM	C. TOTAL (m)	PESO+10% (kg)
CA50	8.0	54718	2214.4
	10.0	1071	661.4
	12.5	1422	1374.1
CA60	5.0	47670	1144.9
PESO TOTAL			
CA50	2711.7		
CA60	1144.9		

Vol. concreto (C) 35 = 7.48 m³

Área de forma total = 133.70 m²

FNDE Fundo Nacional de Desenvolvimento da Educação — Ministério da Educação — BRASIL PAÍS RICO É PAÍS SEM POBREZA

PROJETO PADRÃO - FNDE

PROPRIETÁRIO: FUNDO NACIONAL DE DESENVOLVIMENTO DA EDUCAÇÃO - FNDE

ENDEREÇO:

MUNICÍPIO - UF:

PROPRIETÁRIO

RESP. TÉCNICO — CREA

AUTOR DO PROJETO — CAU

DATA

ESCALA — CREA

RT

OBSERVAÇÕES:

PROGRAMA PROINFÂNCIA - PROJETO TIPO B

PROJETO DE ESTRTURA DE CONCRETO

COORDENAÇÃO: COESP - Coordenação Geral de Infraestrutura Educacional

VIGAS TÉRREO 4

SC

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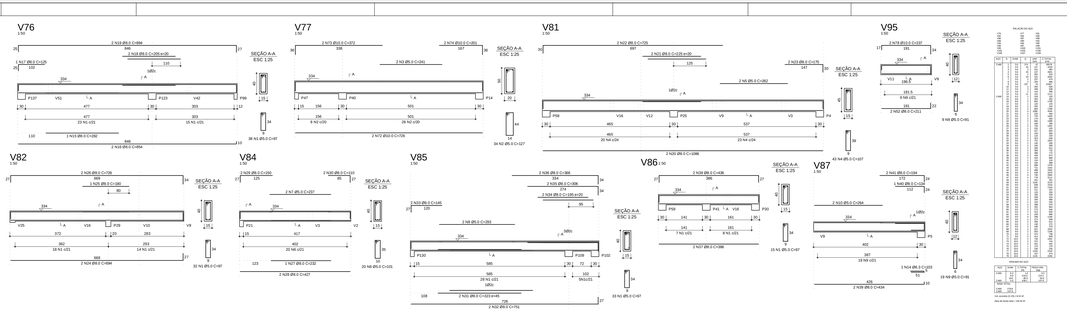
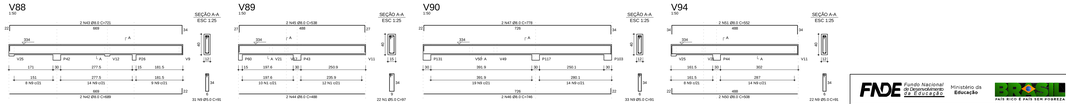
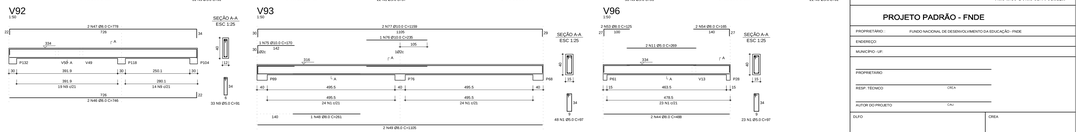
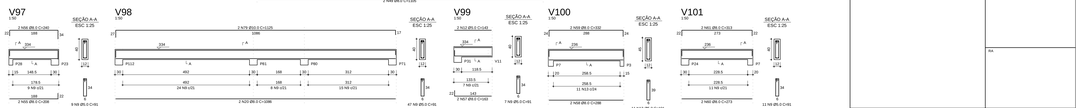
FOLHA: 15/19

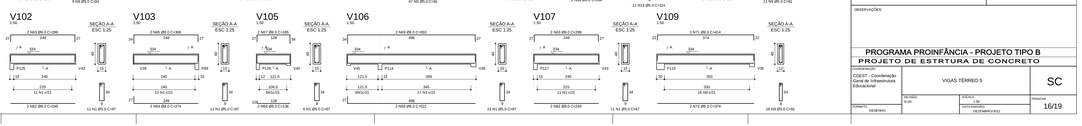
DESENHO:











FNDE	Fundo Nacional de Desenvolvimento da Educação	Ministério da Educação

PROJETO PADRÃO - FNDE

PROPRIETÁRIO:	FUNDO NACIONAL DE DESENVOLVIMENTO DA EDUCAÇÃO - FNDE
ENDEREÇO:	
MUNICÍPIO - UF:	
PROPRIETÁRIO:	
RESP. TÉCNICO:	CREA:
AUTOR DO PROJETO:	CAU:
DATA:	CREA:
	RT:

OBSERVAÇÕES:

PROGRAMA PROINFÂNCIA - PROJETO TIPO B

PROJETO DE ESTRTURA DE CONCRETO

COEST - Coordenação-Geral de Infraestrutura Educacional	VIGAS TÉRREO 5	SC
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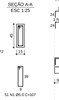
DATA: 09/08/2021	ARQUIVO: VIGAS-TERREO-5.DWG	

V104

1/50

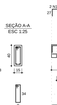
SEÇÃO A-A
ESC 1:25



V108

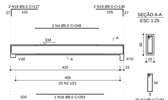
1/50

SEÇÃO A-A
ESC 1:25



V110

1/50



SEÇÃO A-A
ESC 1:25

V111

1/50

SEÇÃO A-A
ESC 1:25

RELAÇÃO DO AÇO

V104
V103

V108

V110

AÇO	N.	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	51	107	5457
	2	5.0	2	262	524
	3	5.0	2	334	668
	4	5.0	2	452	904
	5	5.0	24	91	2184
CA50	6	8.0	2	1044	2088
	7	8.0	2	1029	2058
	8	8.0	2	177	354
	9	8.0	2	1081	2162
	10	8.0	2	1067	2134
	11	8.0	2	1046	2092
	12	8.0	2	129	258
	13	8.0	2	1044	2088
	14	8.0	2	138	276
	15	8.0	2	165	330
	16	8.0	2	1053	2106
	17	8.0	2	442	884
	18	8.0	2	132	264
	19	8.0	2	1042	2084
	21	8.0	2	153	306

RESUMO DO AÇO

AÇO	DIAM	C.TOTAL (m)	PESO+10% (kg)
CA50	8.0	104.7	22.8
CA60	5.0	104.7	22.8

PESO TOTAL

CA50	44.0
CA60	22.8

Vol. concreto (C-25) = 1.59 m³

Área de forma total = 27.24 m²

FNDE Fundo Nacional de Desenvolvimento da Educação — Ministério da Educação

BRASIL PAÍS RICO É PAÍS SEM POBREZA

PROJETO PADRÃO - FNDE

PROPRIETÁRIO: FUNDO NACIONAL DE DESENVOLVIMENTO DA EDUCAÇÃO - FNDE

ENDEREÇO:

MUNICÍPIO - UF:

PROPRIETÁRIO:

RESP. TÉCNICO: CREA

AUTOR DO PROJETO: CAU

OUTO — CREA — RA

OBSERVAÇÕES:

PROGRAMA PROINFÂNCIA - PROJETO TIPO B

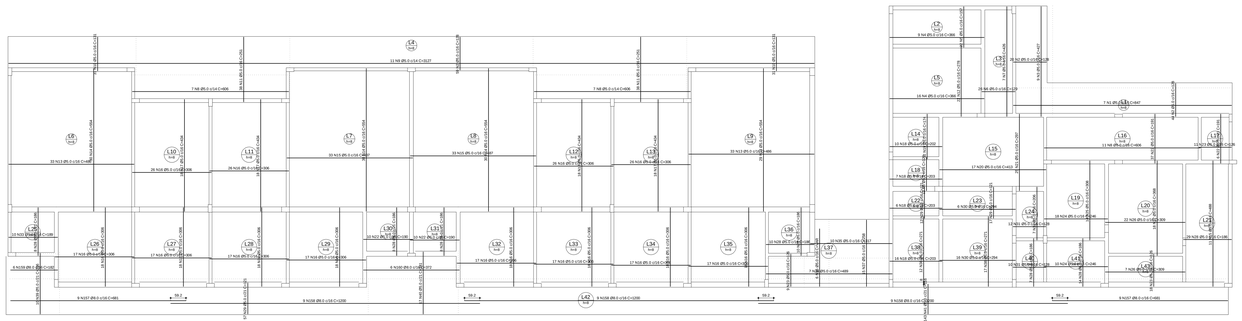
PROJETO DE ESTRTURA DE CONCRETO

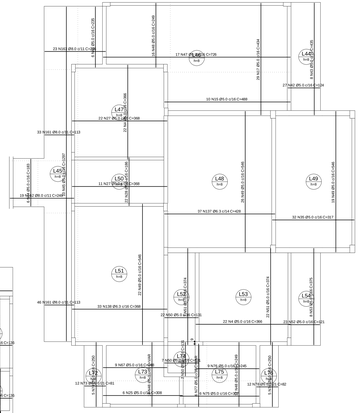
COORDENAÇÃO: COEST - Coordenação Geral de Infraestrutura Educacional

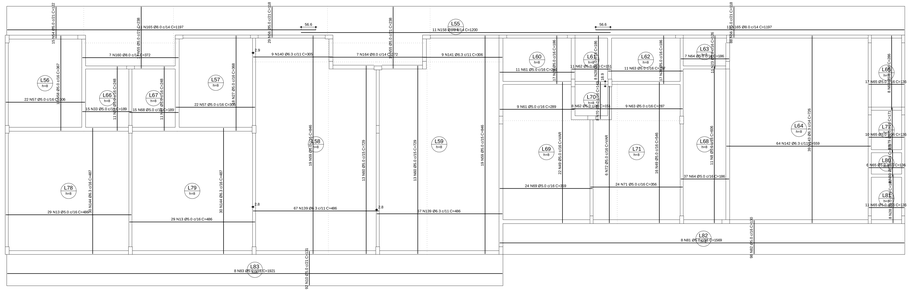
VIGAS TERREO 6

SC

DESENHO: REVISÃO: 0.00 — ESCALA: 1:50 — DATA EMISSÃO: DEZEMBRO/2013 — FRANCHA: 17/19







Armação positiva das lajes do pavimento Térreo
escala 1:50

FNDE Fundo Nacional de Desenvolvimento da Educação — Ministério da Educação — BRASIL PAÍS RICO É PAÍS SEM POBREZA

PROJETO PADRÃO - FNDE

PROPRIETÁRIO: FUNDO NACIONAL DE DESENVOLVIMENTO DA EDUCAÇÃO - FNDE

ENDEREÇO:

MUNICÍPIO - UF:

PROPRIETÁRIO:

RESP. TÉCNICO — CREA

AUTOR DO PROJETO — CAU

ÁREA

OBSERVAÇÕES:

PROGRAMA PROINFÂNCIA - PROJETO TIPO B

PROJETO DE ESTRTURA DE CONCRETO

COORDENAÇÃO: COEST - Coordenação Geral de Infraestrutura Educacional

FERRAGEM POSITIVA DAS LAJES

SC

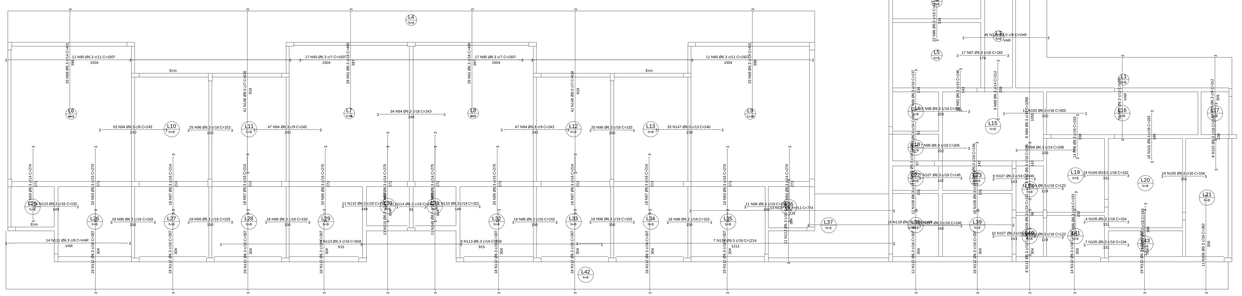
DESENHO: RISK

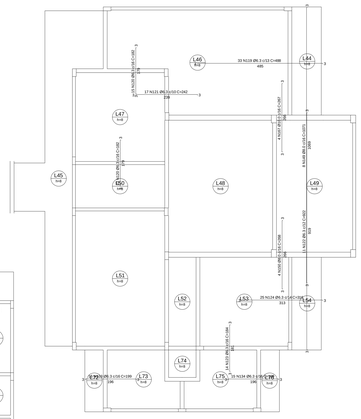
ESCALA: 1:50

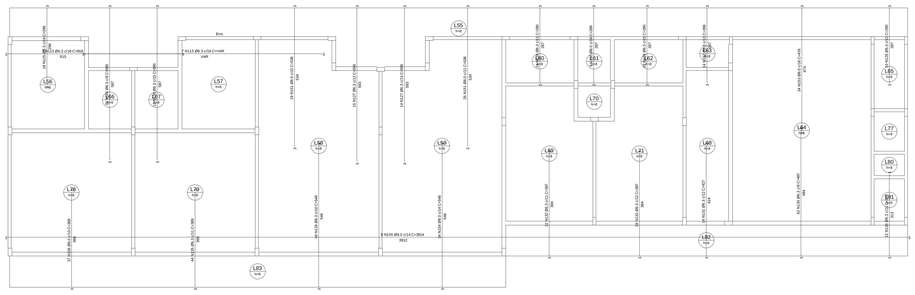
FOLHA: 18/19

DATA: DEZEMBRO/2012

DESENHO







Armação negativa das lajes do pavimento Térreo
escala 1:50

FDE	Fundo Nacional de Desenvolvimento da Educação	Ministério da Educação	BRASIL PAÍS RICO É PAÍS SEM POBREZA

PROJETO PADRÃO - FNDE

PROPRIETÁRIO : FUNDO NACIONAL DE DESENVOLVIMENTO DA EDUCAÇÃO - FNDE

ENDEREÇO:

MUNICÍPIO - UF:

PROPRIETÁRIO:

RESP. TÉCNICO: CREA:

AUTOR DO PROJETO: CAU:

DATA:

ÁREA:

OBSERVAÇÕES:

PROGRAMA PROINFÂNCIA - PROJETO TIPO B

PROJETO DE ESTRTURA DE CONCRETO

COORDENAÇÃO: COEST - Coordenação Geral de Infraestrutura Educacional

FERRAGEM NEGATIVA DAS LAJES

SC

RESPONSÁVEL TÉCNICO	DESENHO	ESCALA	PRANCHA
	Arial	1:50	19/19
		DATA EMISSÃO: DEZEMBRO/2012	