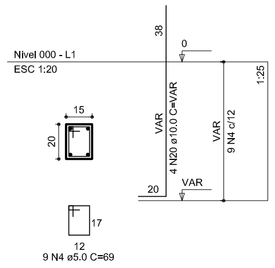
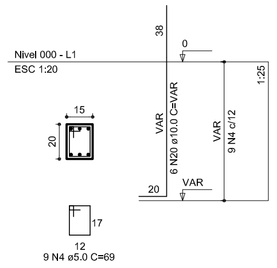
P15=P16=P17=P20=P21=P24

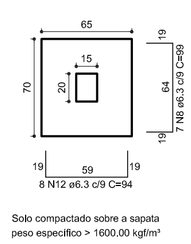


P22

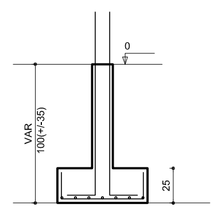


S15=S16=S17=S20=S21=S22=S24

Planta
ESC 1:25

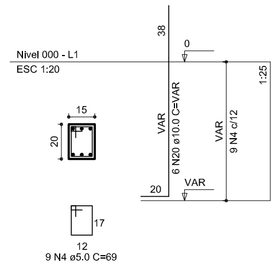


Corte
ESC 1:25

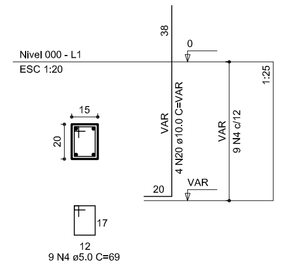


Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

P10

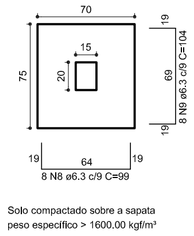


P8=P9=P11=P12=P14=P19

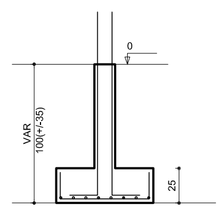


S8=S9=S10=S11=S12=S14=S19

Planta
ESC 1:25

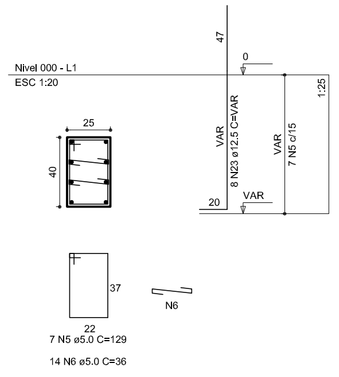


Corte
ESC 1:25



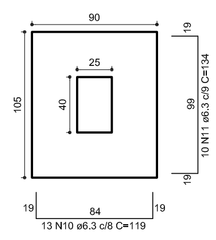
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

P13=P18

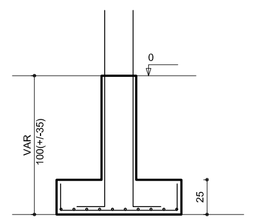


S13=S18

Planta
ESC 1:25



Corte
ESC 1:25



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

RELAÇÃO DO AÇO

P1	2xP2	8xP3
2xP7	6xP8	P10
2xP13	6xP15	P22
P23	S1	7xS11
2xS13	7xS16	S23
2xS25	8xS26	2xS30

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
60	1	5.0	28	195	5460
	2	5.0	196	31	6076
	3	5.0	70	159	11130
	4	5.0	126	69	8694
	5	5.0	14	129	1806
	6	5.0	28	36	1008
50	7	6.3	13	189	2457
	8	6.3	105	99	10395
	9	6.3	56	104	5824
	10	6.3	26	119	3094
	11	6.3	20	134	2680
	12	6.3	56	94	5264
	13	6.3	12	179	2148
	14	6.3	18	164	2952
	15	6.3	72	154	11088
	16	6.3	20	159	3180
	17	8.0	26	108	2808
	18	8.0	88	113	9944
	19	8.0	26	118	3068
	20	10.0	60	VAR	VAR
	21	10.0	15	122	1830
	22	10.0	13	117	1521
	23	12.5	116	VAR	VAR
	24	12.5	12	VAR	VAR
	25	12.5	12	94	1128

RESUMO DO AÇO

AÇO	DIAM	C.TOTAL (m)	PESO+10% (kg)
CA50	6.3	491.3	132.5
	8.0	158.7	69.0
	10.0	127.1	86.2
	12.5	215.5	228.5
CA60	5.0	342.6	58.0
PESO TOTAL			
CA50	516.1		
CA60	58.0		

Vol. de concreto total =8.71 m³
Área de forma total = 62.84 m²

P2=P25

S2=S25

Planta
ESC 1:25

Corte
ESC 1:25

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

P3=P4=P5=P6=P26=P27=P28=P29

S3=S4=S5=S6=S26=S27=S28=S29

Planta
ESC 1:25

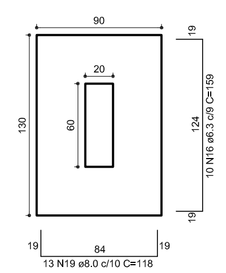
Corte
ESC 1:25

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

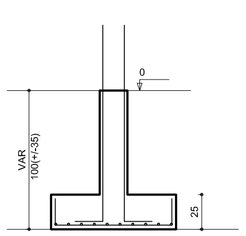
P7=P30

S7=S30

Planta
ESC 1:25

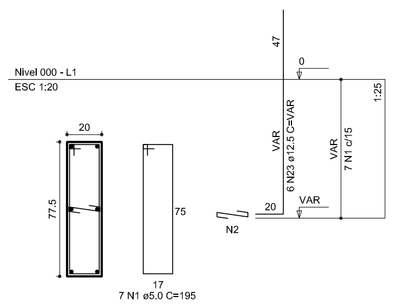


Corte
ESC 1:25



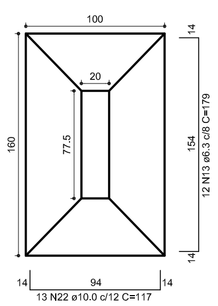
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

P23

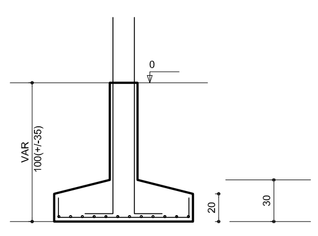


S23

Planta
ESC 1:25

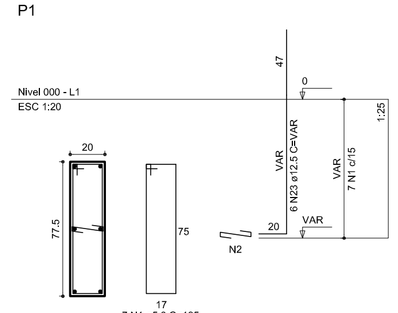


Corte
ESC 1:25



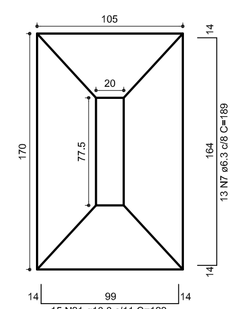
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

P1

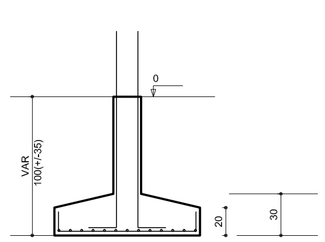


S1

Planta
ESC 1:25



Corte
ESC 1:25



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

GOVERNO FEDERAL
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Ministério da Educação

FNDE Fundo Nacional de Desenvolvimento da Educação

PROJETO PADRÃO - FNDE

MUNICÍPIO – UF: VICTOR GRAEFF - RS

PROPRIETÁRIO: MUNICÍPIO DE VICTOR GRAEFF

ENDEREÇO: Rua Fridholdo Fischer, esquina com Av. 17 de Março

PROPRIETÁRIO Município de Victor Graeff

RESP. TÉCNICO Dirson Henrique Wentz — CREA
Engº Civil CREARS 86911

DLFO

CREA

RA

OBSERVAÇÕES:

QUADRA COBERTA

PROJETO ESTRUTURAL

COORDENAÇÃO
CGEST - Coordenação Geral de Infraestrutura Educacional

ESTRUTURA DE CONCRETO
SAPATAS

EST

REVISÃO	ESCALA	PRANCHA
R.00	1/125	09/11
R.00	DATA EMISSÃO	
R.00	JULHO/2011	

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