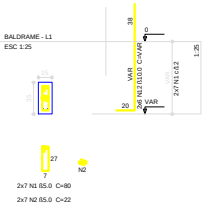
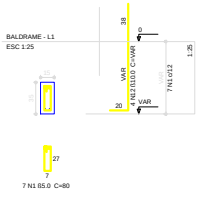
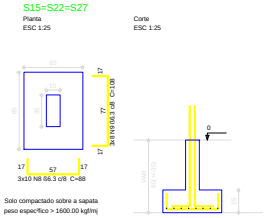
P15=P22



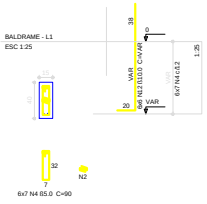
P27



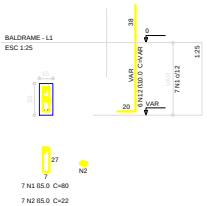
S15=S22=S27



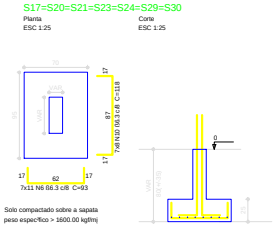
P17=P20=P23=P24=P29=P30



P21



S17=S20=S21=S23=S24=S29=S30



Rela-«o do a-o

S9 S10 S20
S22 S26

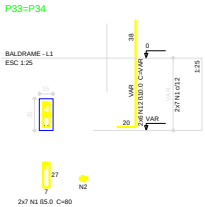
Aé O	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	119	80	9520
	2	5.0	238	22	5236
	3	5.0	7	60	420
	4	5.0	140	90	12600
CA50	5	6.3	162	83	13446
	6	6.3	95	93	8835
	7	6.3	235	103	24205
	8	6.3	30	88	2640
	9	6.3	24	108	2592
	10	6.3	56	118	6608
	11	6.3	90	126	11520
	12	10.0	234	VAR	VAR

Resumo do a-o

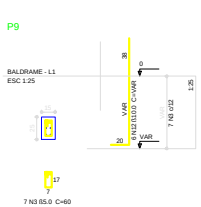
Aé O	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	698.5	188
	10.0	318.3	215.8
CA60	5.0	277.8	47.1
PESO TOTAL			
CA50	403.8		
CA60	47.1		

Vol. de concreto total (C-25) = 7.5 m³
Área de forma total = 61.57 m²

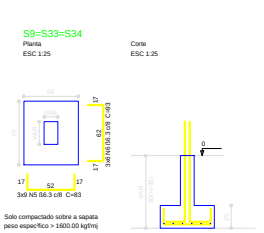
P33=P34



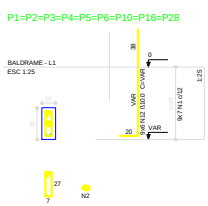
P9



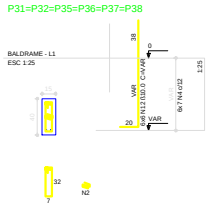
S9=S33=S34



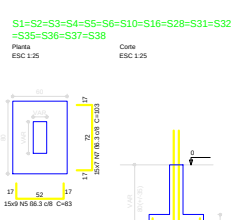
P1=P2=P3=P4=P5=P6=P10=P16=P28



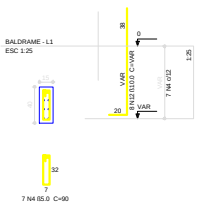
P31=P32=P35=P36=P37=P38



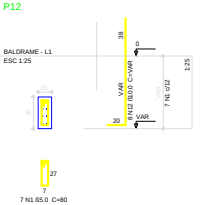
S1=S2=S3=S4=S5=S6=S10=S16=S28=S31=S32=S35=S36=S37=S38



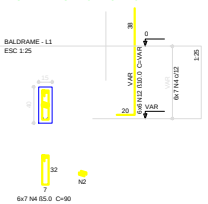
P11



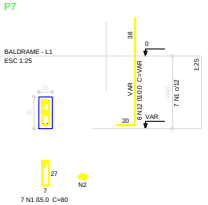
P12



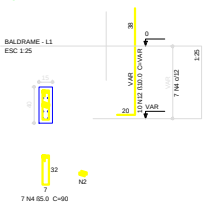
P13=P14=P18=P19=P25=P26



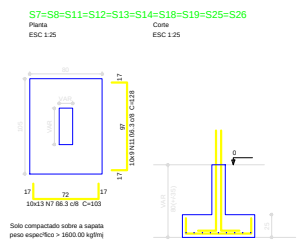
P7



P8



S7=S8=S11=S12=S13=S14=S18=S19=S25=S26



INDIVÍDUO 00 - XXXXXXXXX
EMISSÃO INICIAL

EMPROTEC
ENGENHARIA
PROJETANDO O FUTURO

EMPRESA DE PROJETOS
TECNICOS E CONSTRUÇÃO CIVIL

MARCIONE ALVES DE ALBUQUERQUE
ENGENHEIRO CIVIL
CREA PB 060.000-D

PROJETO

PROJETO ESTRUTURAL DO LABORATÓRIO DE FITOTERAPIA

LOCALIZAÇÃO

UNIVERSIDADE FEDERAL DA PARAÍBA

CAMPUS I - CIDADE UNIVERSITÁRIA - JOÃO PESSOA/PB

CONTEÚDO

DETALHAMENTO DAS SAPATAS

ÚNICA

ARQUIVO: PROJETO ESTRUTURAL_LABORATÓRIO FITOTERAPIA.dwg
DATA: SETEMBRO/2021
ESCALA: INDICADA A CADA PRANCHA

ESCALA
1/01