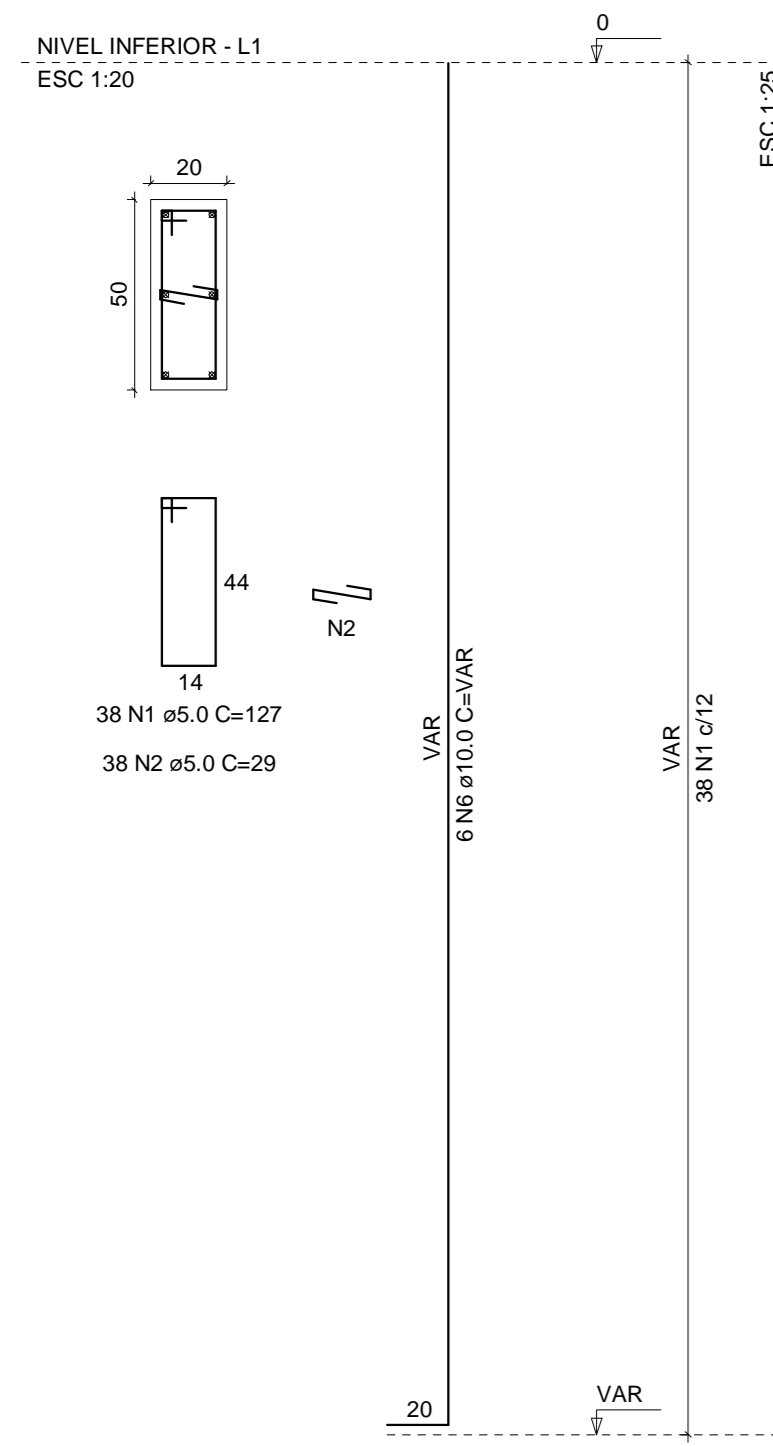
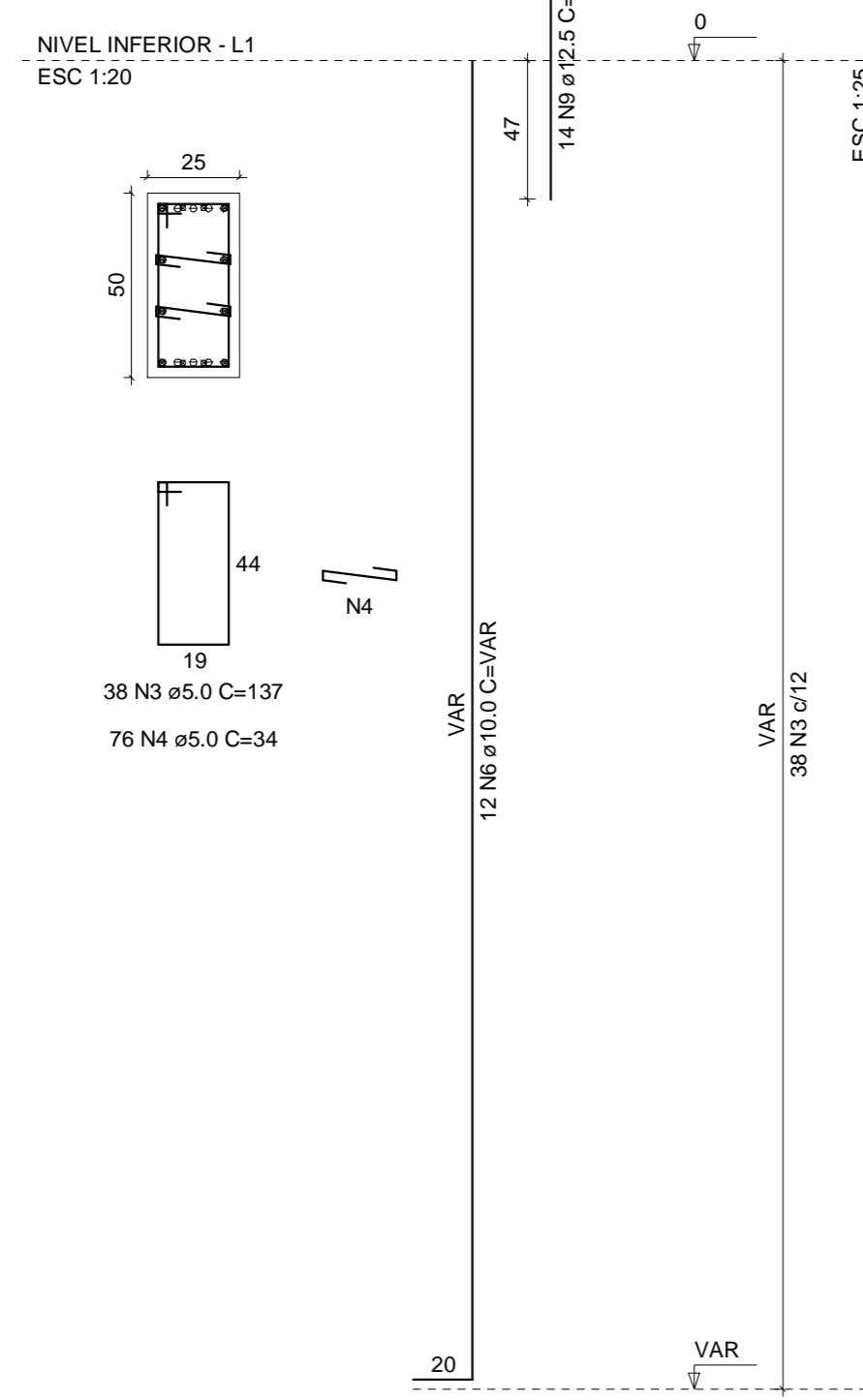


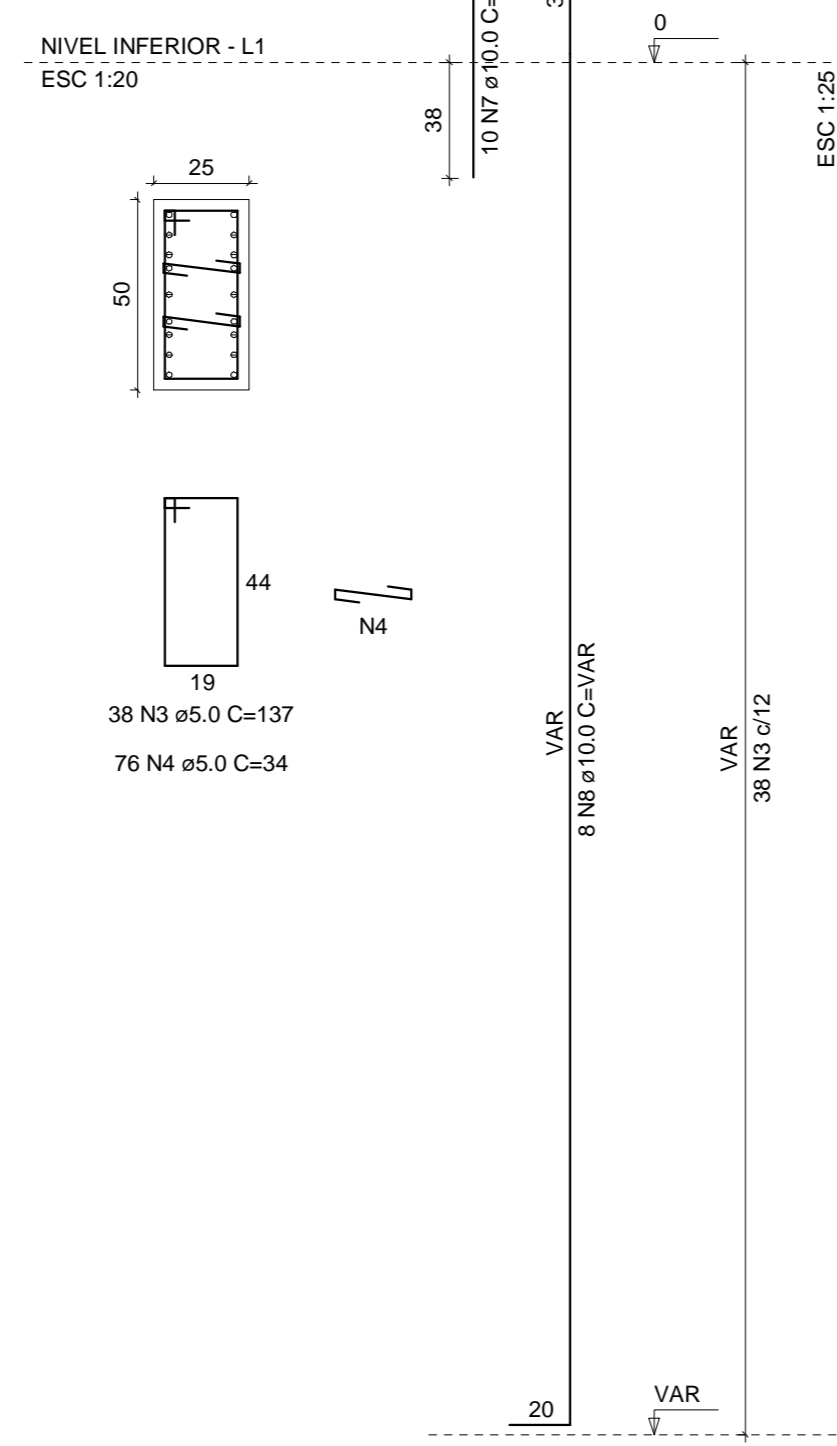
P13=P15



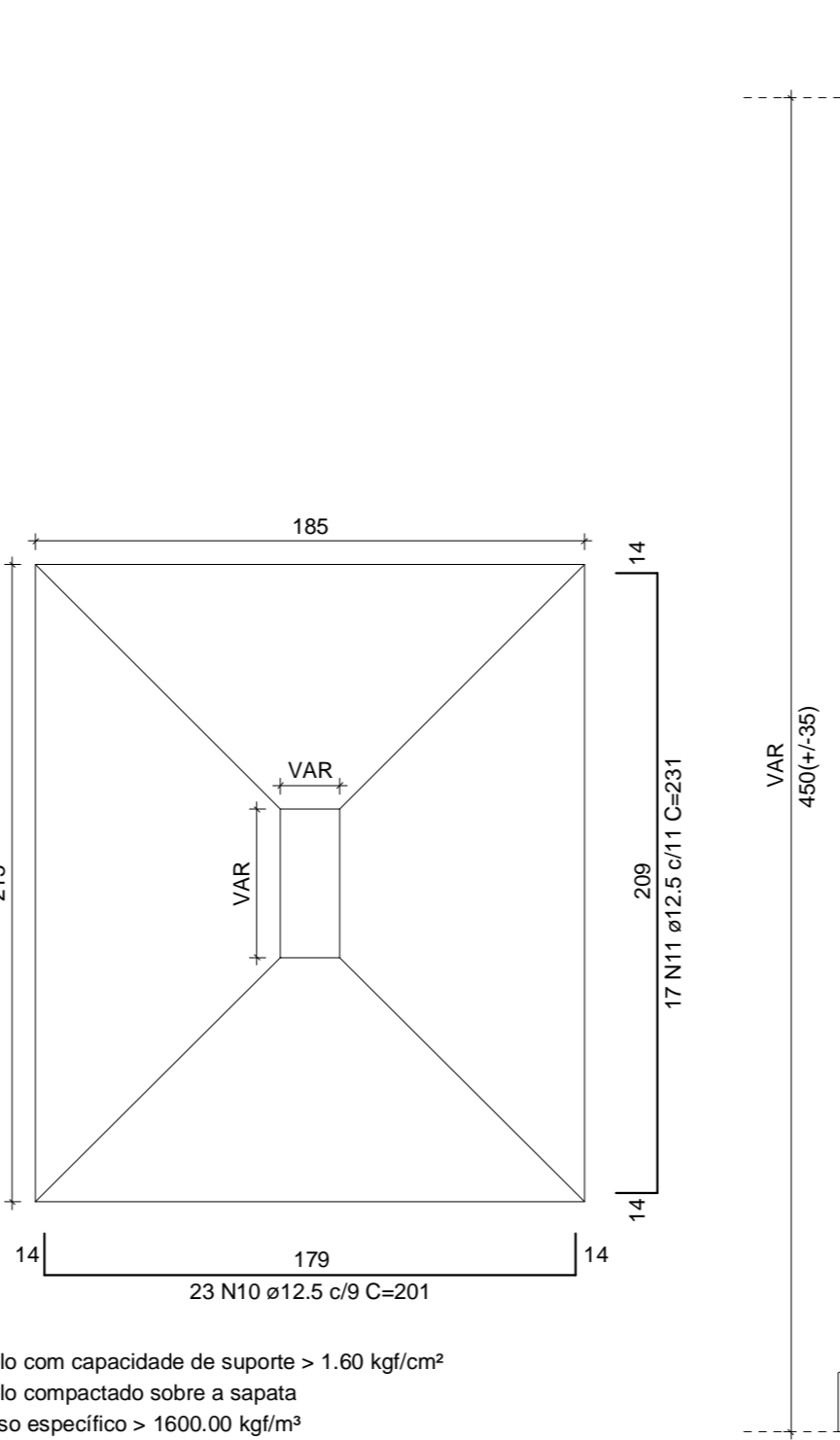
P16=P17



P18=P23

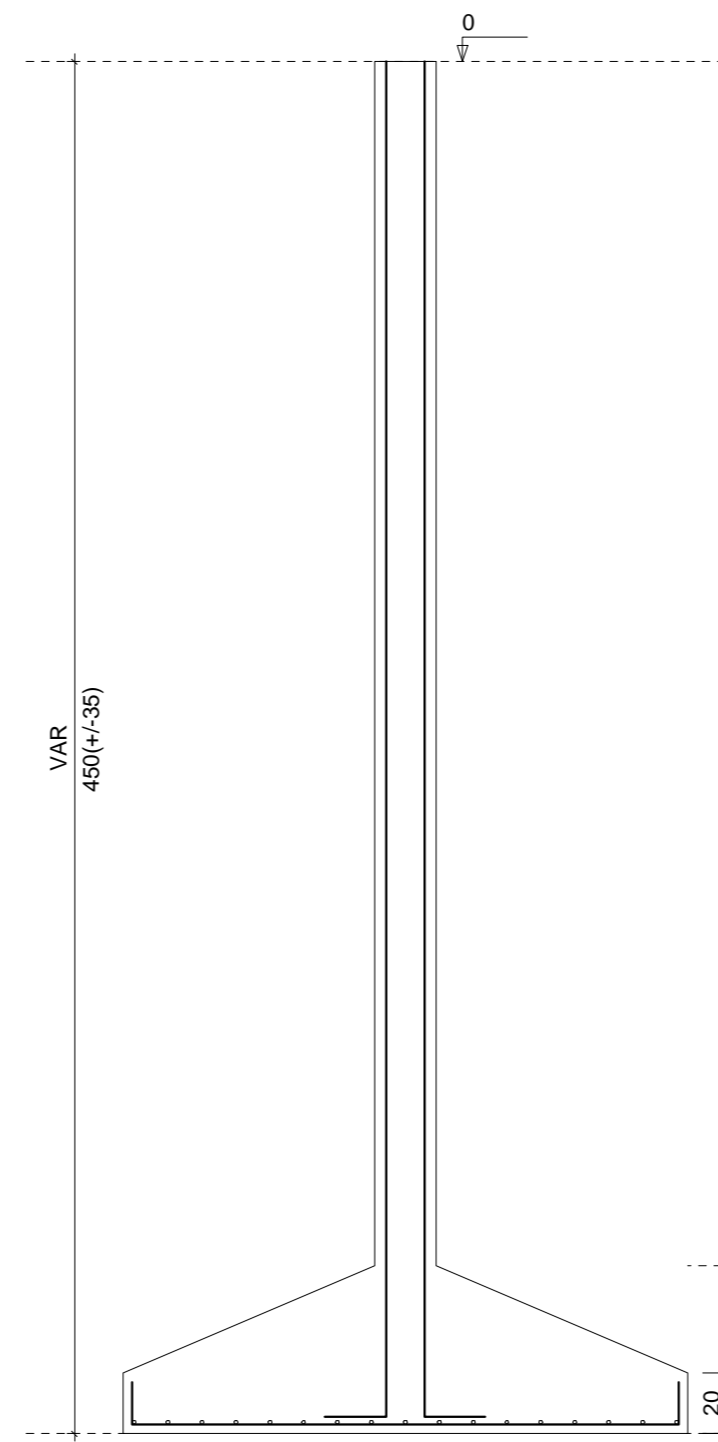


S13=S15=S16=S17=S18=S23

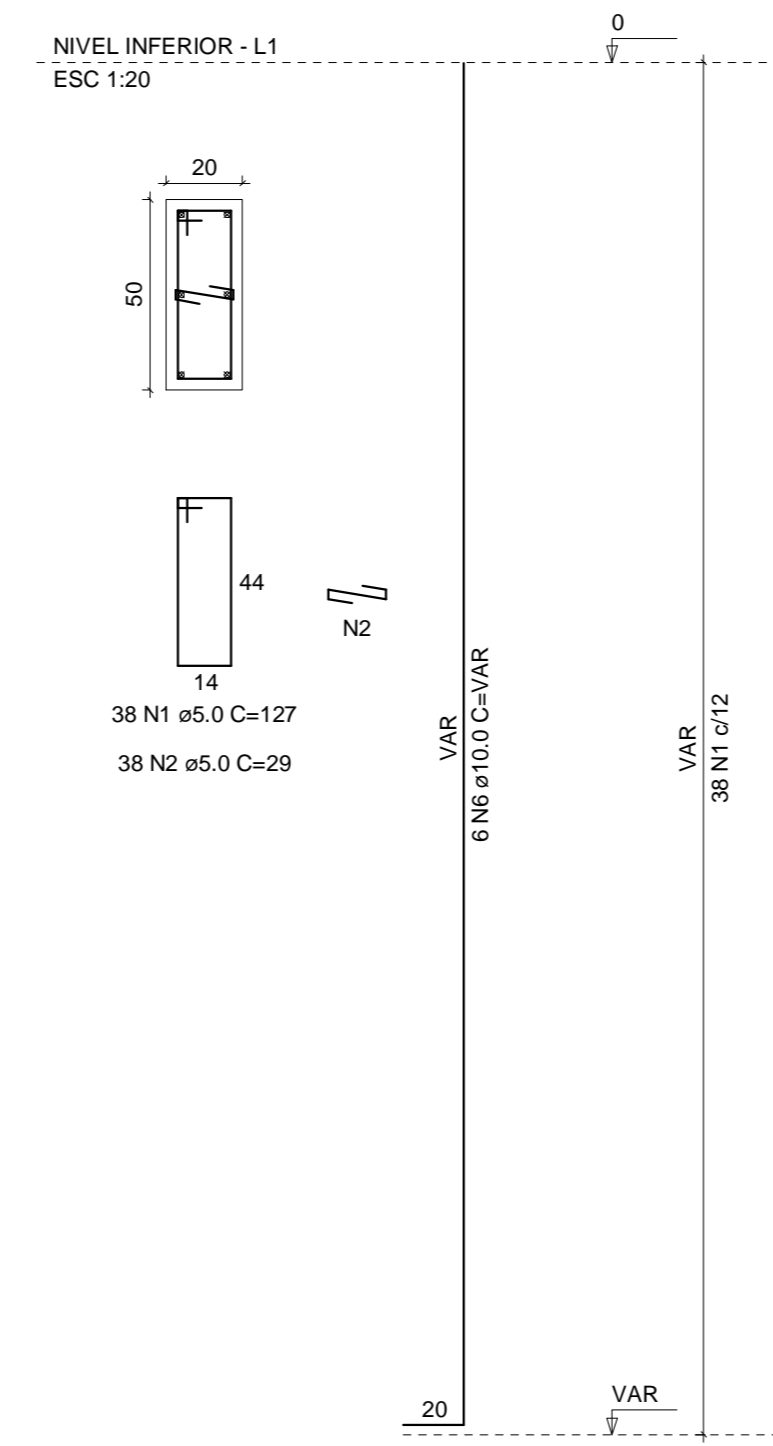


Solo com capacidade de suporte > 1.60 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kg/m³

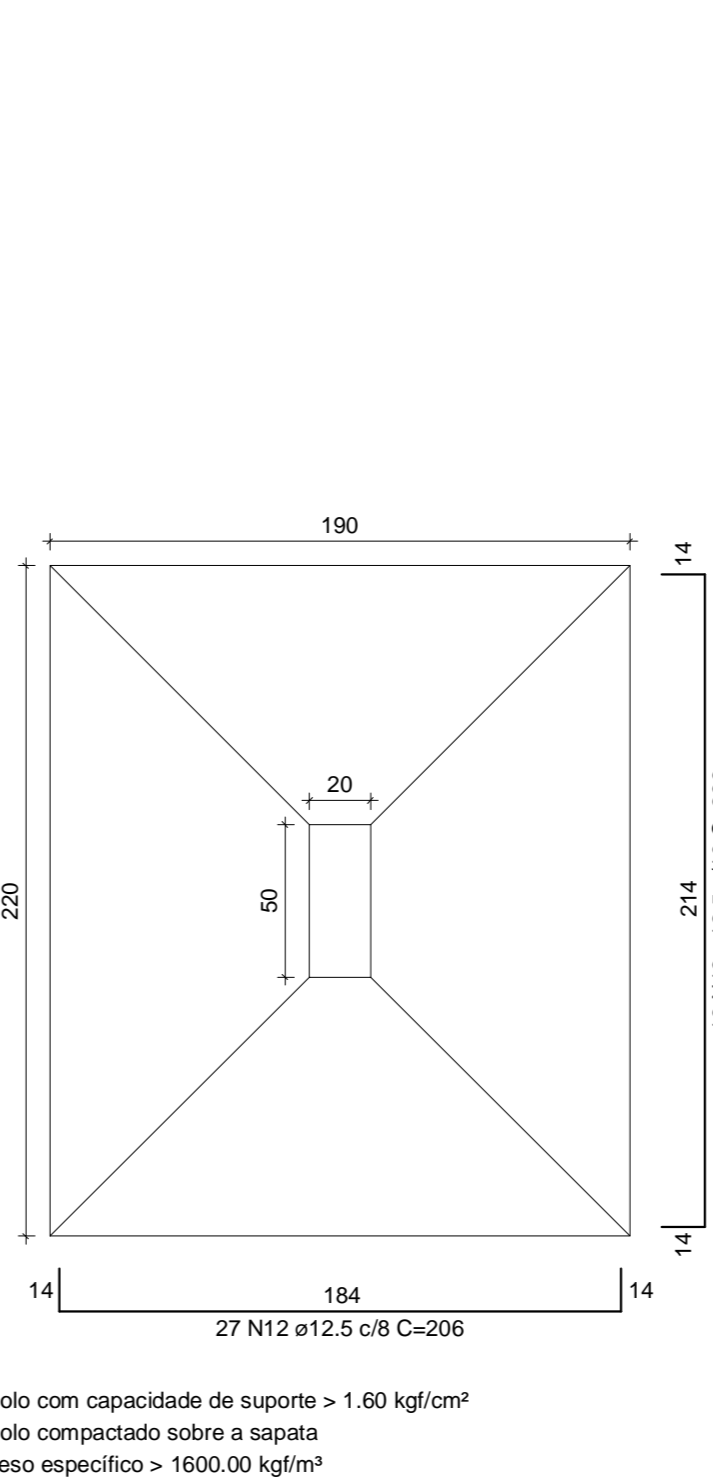
CORTE
ESC 1:25



P20=P21

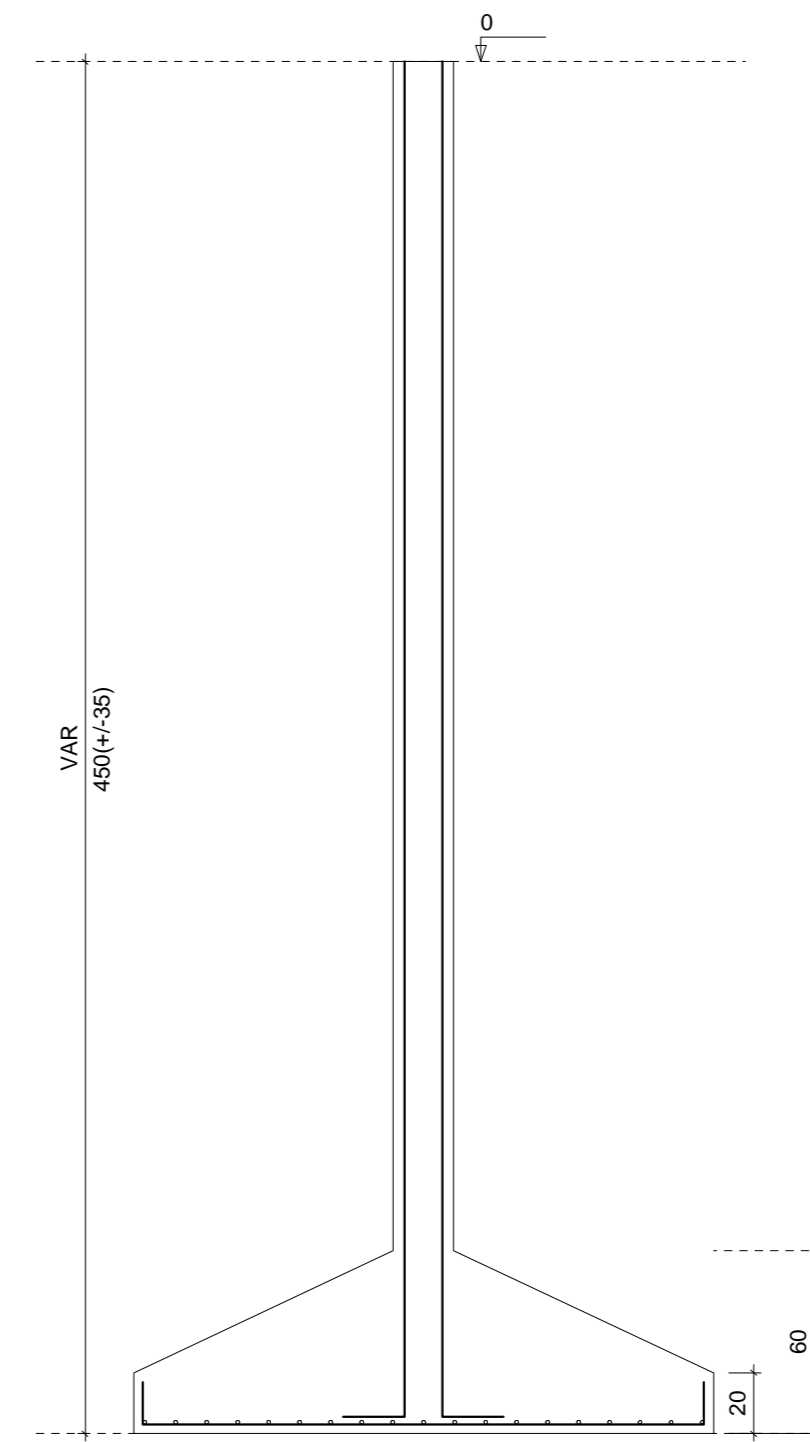


S20=S21



Solo com capacidade de suporte > 1.60 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kg/m³

CORTE
ESC 1:25



RELAÇÃO DO AÇO

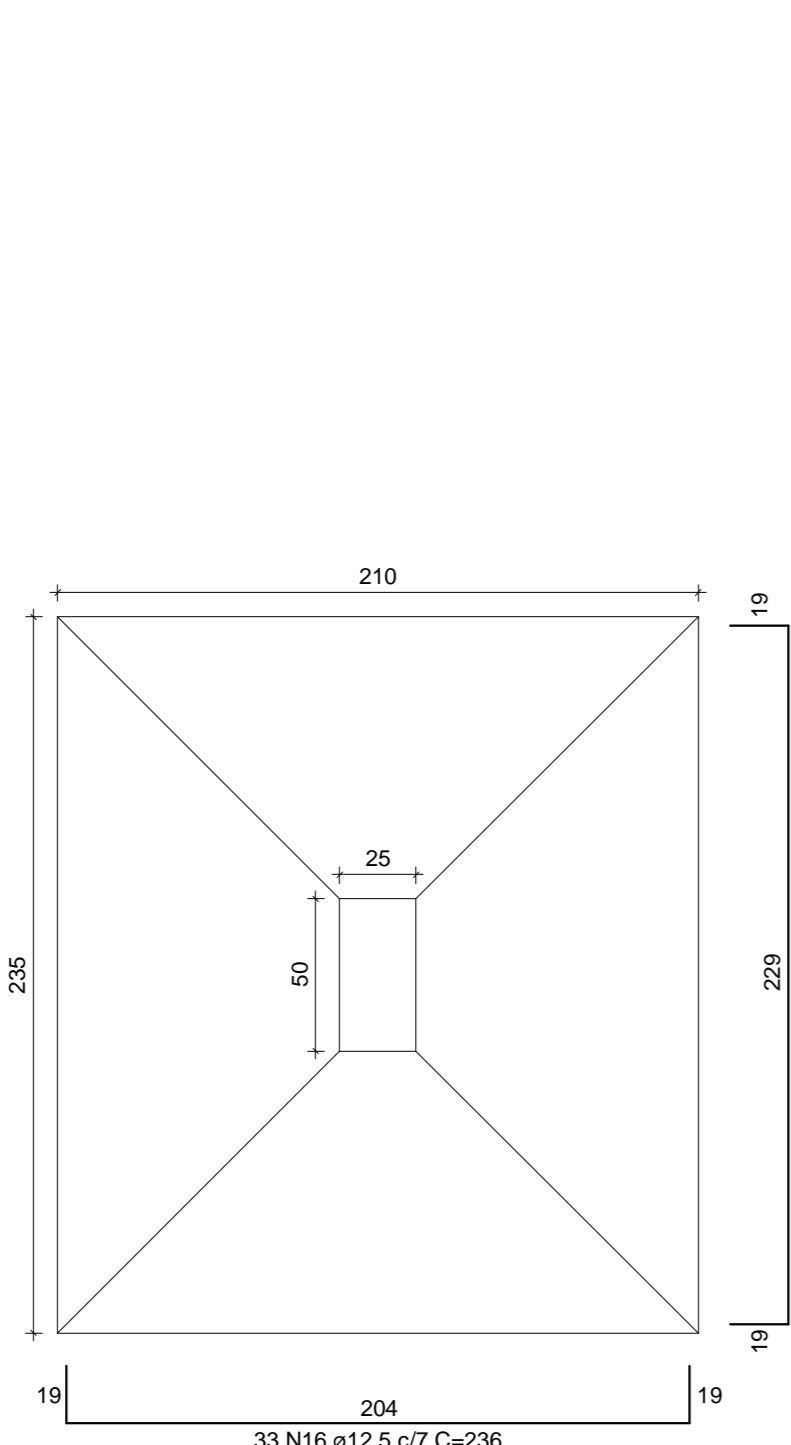
2xP13	2xP16	2xP18			
2xP30	2xS20	2xP16			
6xS13	2xS20	2xS28			
2xS28					
ACO	N	DIAM	Q	UNID	C-TOTAL
				(cm)	(cm)
CA50	1	5.0	152	127	19204
	2	5.0	152	29	4408
	3	5.0	288	137	39456
	4	5.0	456	34	15504
	5	5.0	60	34	2040
	6	10.0	48	VAR	VAR
	7	10.0	24	75	1900
	8	10.0	32	VAR	VAR
	9	12.5	44	94	4136
	10	12.5	138	201	27736
	11	12.5	102	231	23562
	12	12.5	54	206	11124
	13	12.5	38	236	8968
	14	12.5	108	276	29816
	15	12.5	82	301	24652
	16	12.5	66	236	15576
	17	12.5	52	261	13572
	18	16.0	28	VAR	VAR

RESUMO DO AÇO

ACO	DIAM	C-TOTAL	PESO+10%
		(cm)	(kg)
CA50	10.0	403.1	273.4
	12.5	1691.7	1095.6
	16.0	147.3	255.7
	5.0	807.1	136.8
PESO TOTAL			
CA50		2215.7	
CA60		136.8	

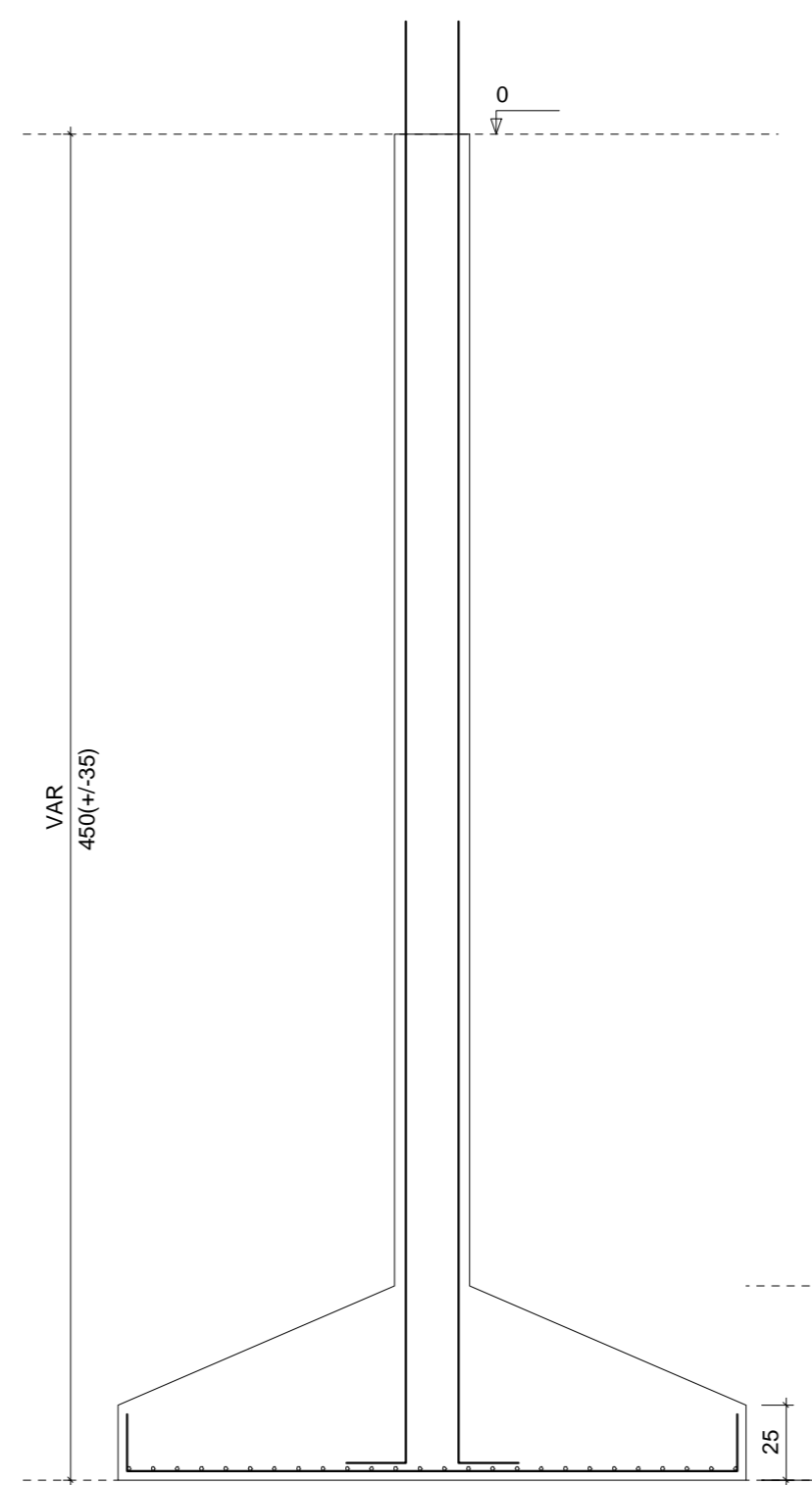
Vol. concreto (C-25) = 27.46 m³
Área de forma total = 101.78 m²

S25=S28

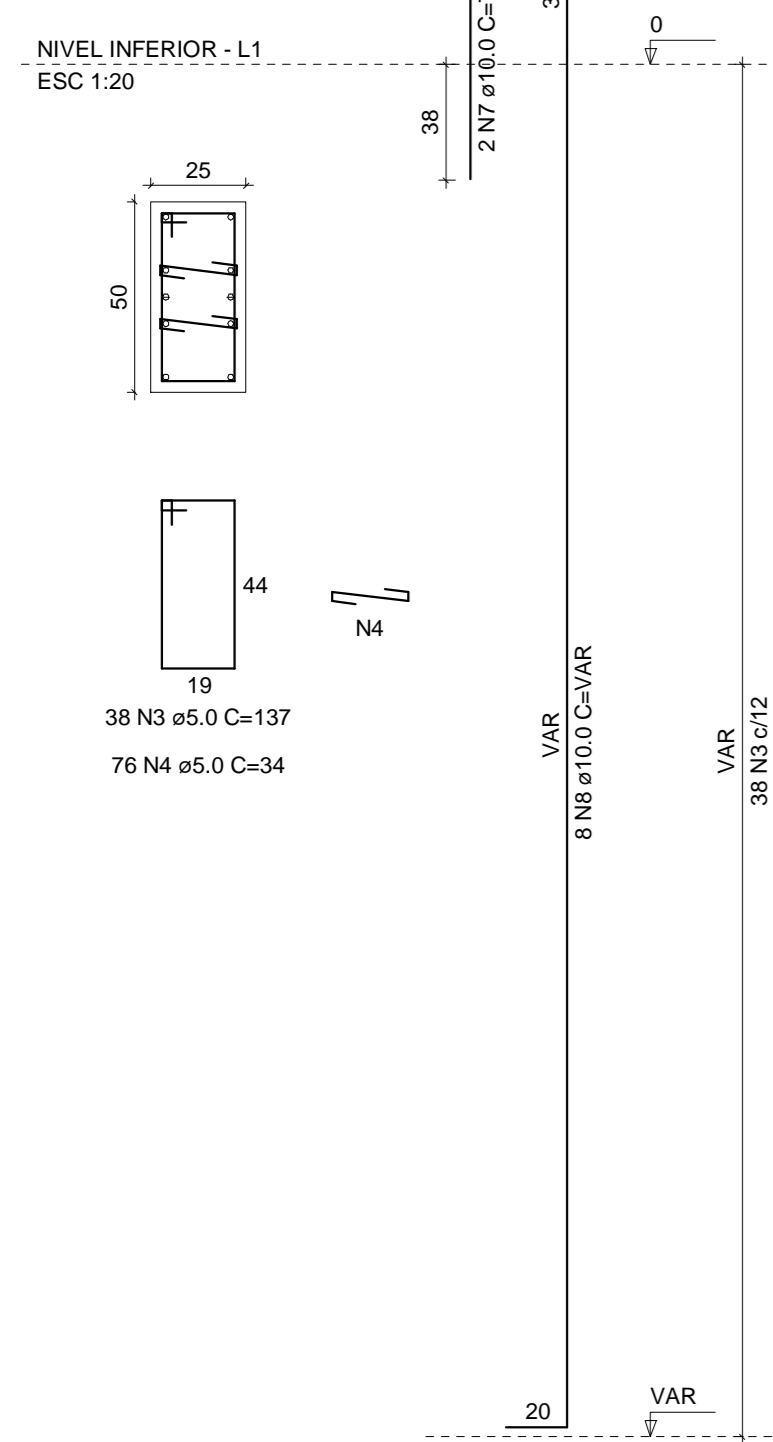


Solo com capacidade de suporte > 1.60 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kg/m³

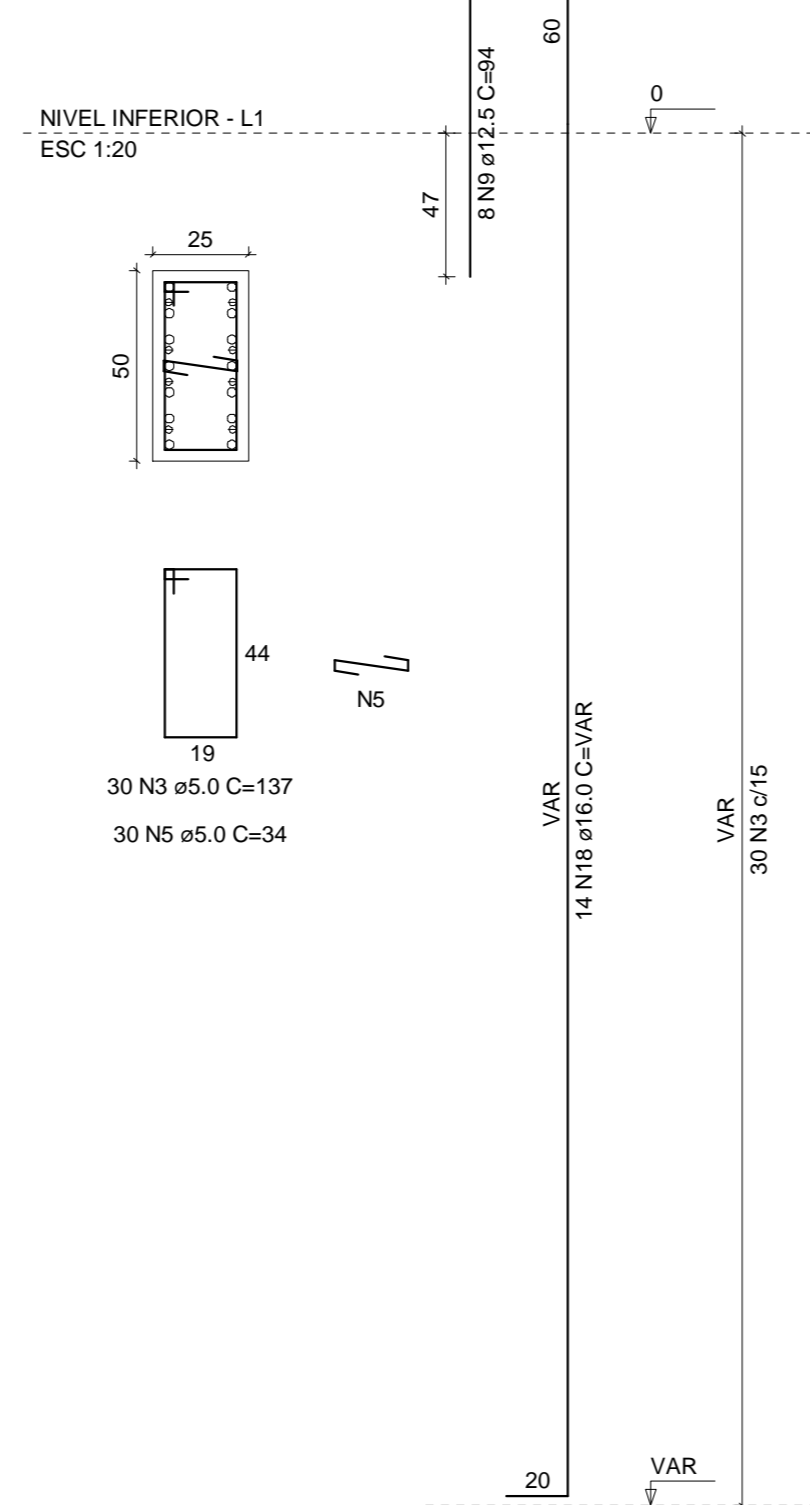
CORTE
ESC 1:25



P25=P28

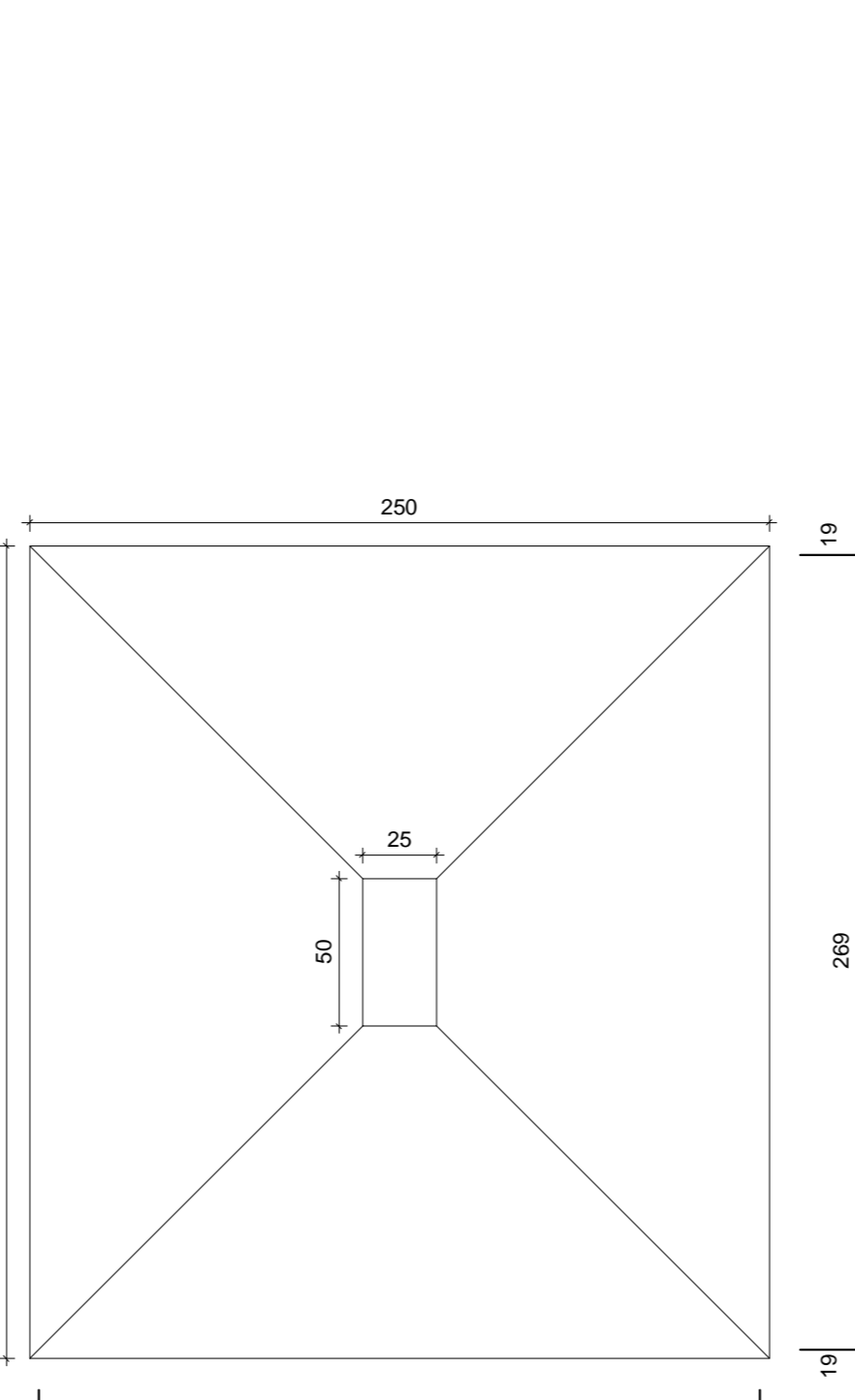


P26=P27

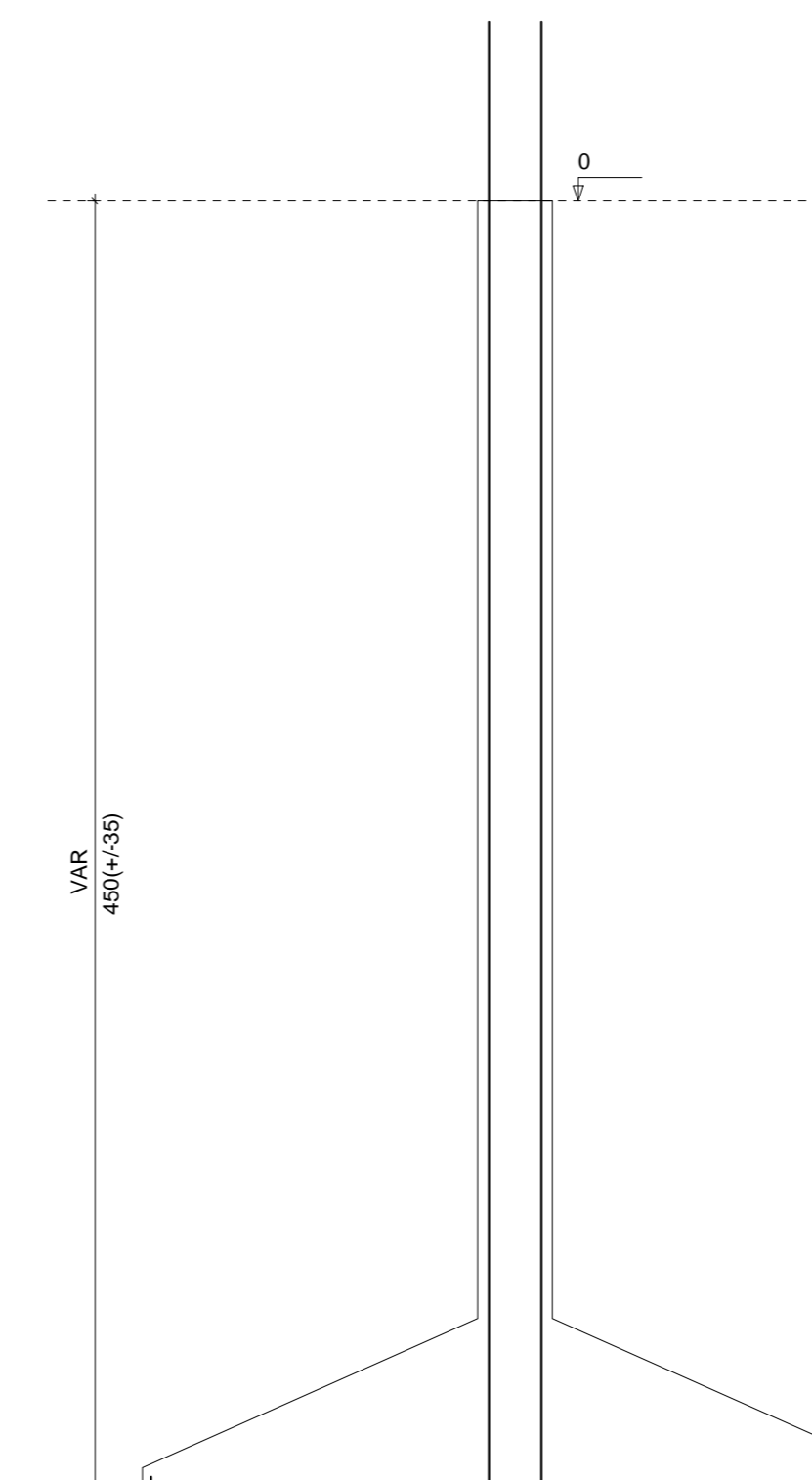


Solo com capacidade de suporte > 1.60 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kg/m³

S26=S27



CORTE
ESC 1:25



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Objeto: **Ampliação do Ginásio Municipal**
Parte do Lote Rural (11A) da Seção Floresta Rio Branco,
da Colônia Erechim, perímetro urbano de Centenário/RS

Projeto Estrutural
Parte 1

A16

Município de Centenário