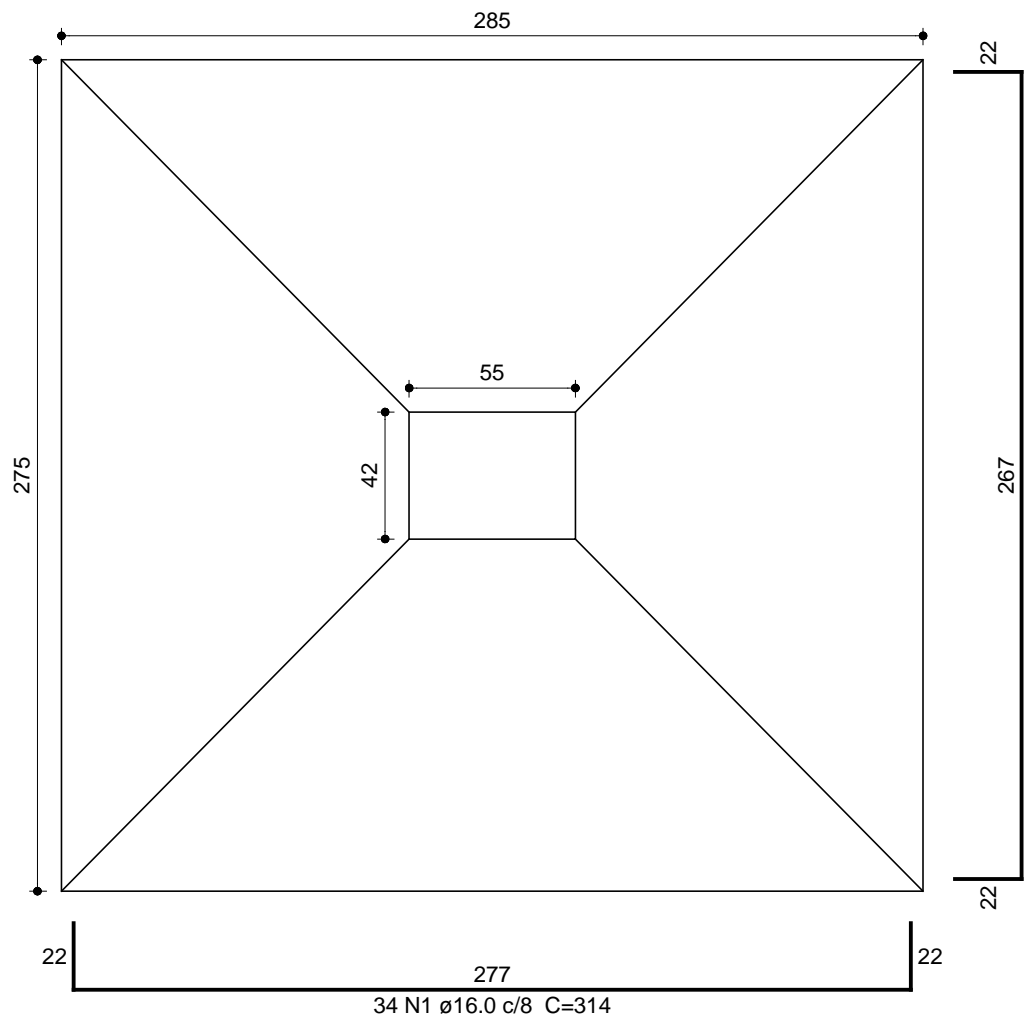


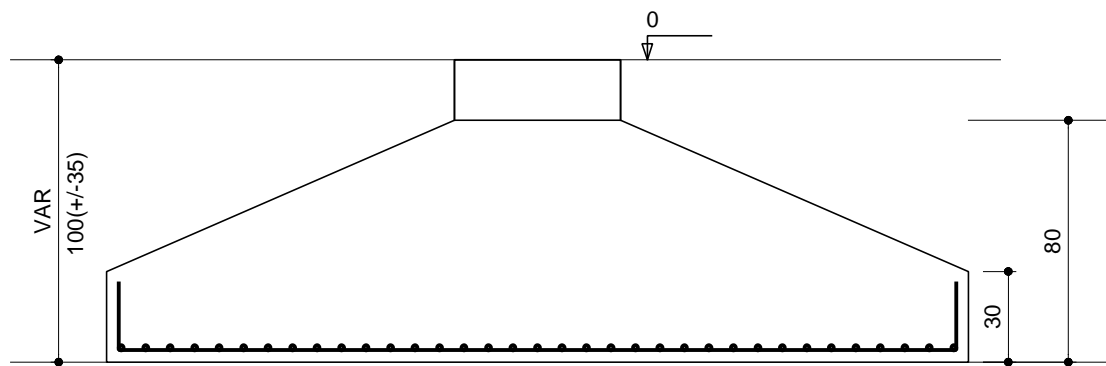
PENAS	
RED	0.1mm BLACK
YELLOW	0.2mm BLACK
GREEN	0.3mm BLACK
CYAN	0.4mm BLACK
BLUE	0.5mm BLACK
MAGENTA	0.6mm BLACK
10	0.1mm 10
42	0.1mm 42
98	0.1mm 98
156	0.1mm 156
160	0.2mm 160
254	0.1mm 254

S2-31  
PLANTA  
ESC 1:25

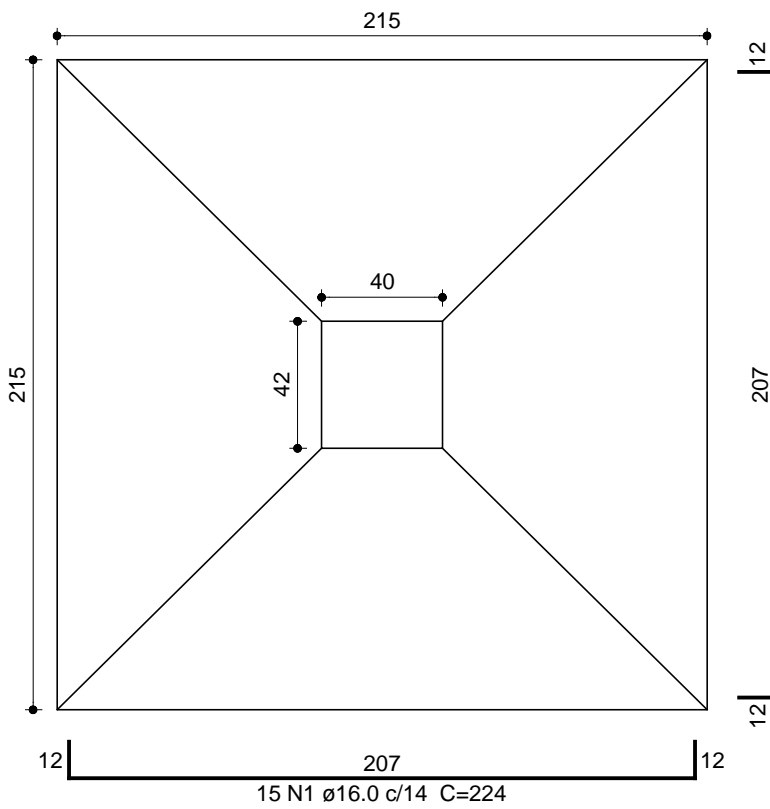


Solo compactado sobre a sapata  
peso específico > 1600.00 kgf/m³

CORTE  
ESC 1:25

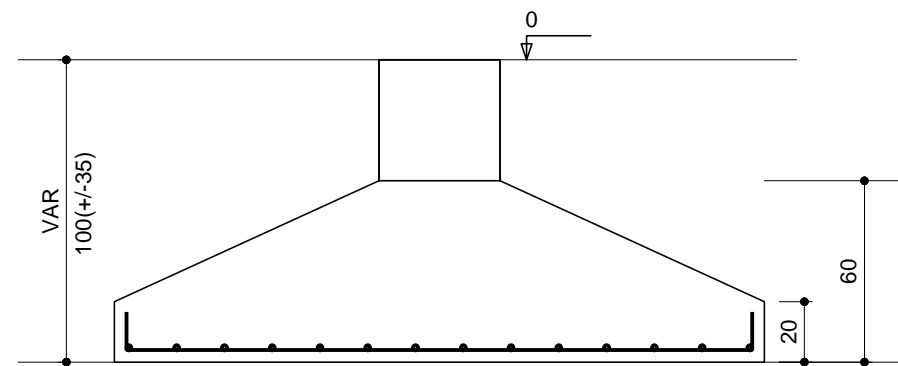


S3-32  
PLANTA  
ESC 1:25

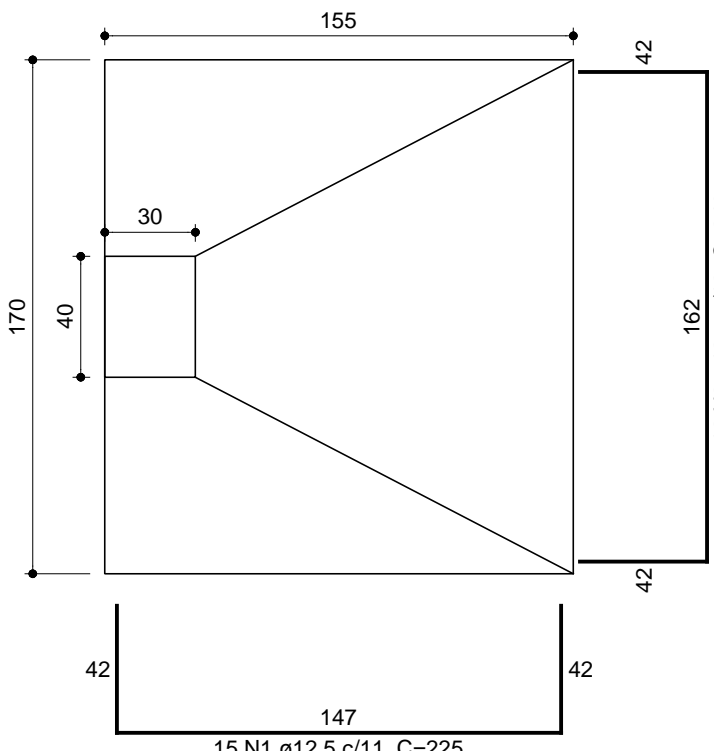


Solo compactado sobre a sapata  
peso específico > 1600.00 kgf/m³

CORTE  
ESC 1:25

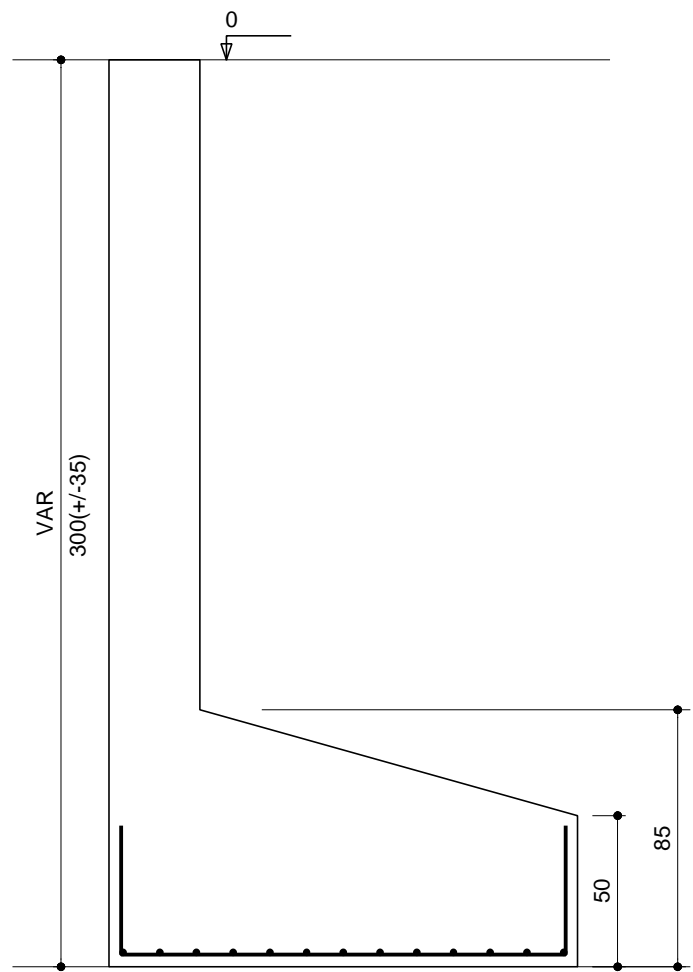


S35  
PLANTA  
ESC 1:25

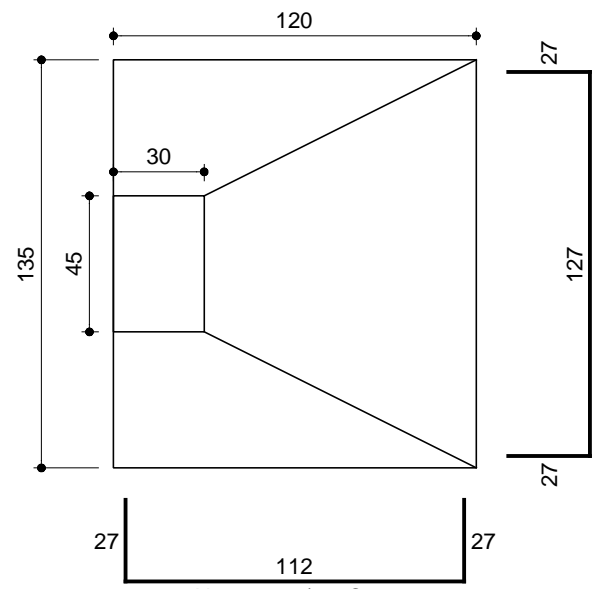


Solo compactado sobre a sapata  
peso específico > 1600.00 kgf/m³

CORTE  
ESC 1:25

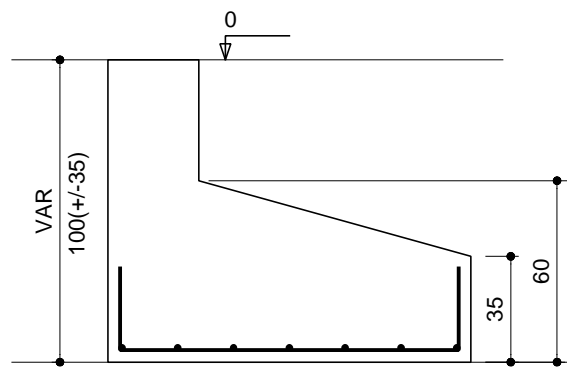


S36  
PLANTA  
ESC 1:25

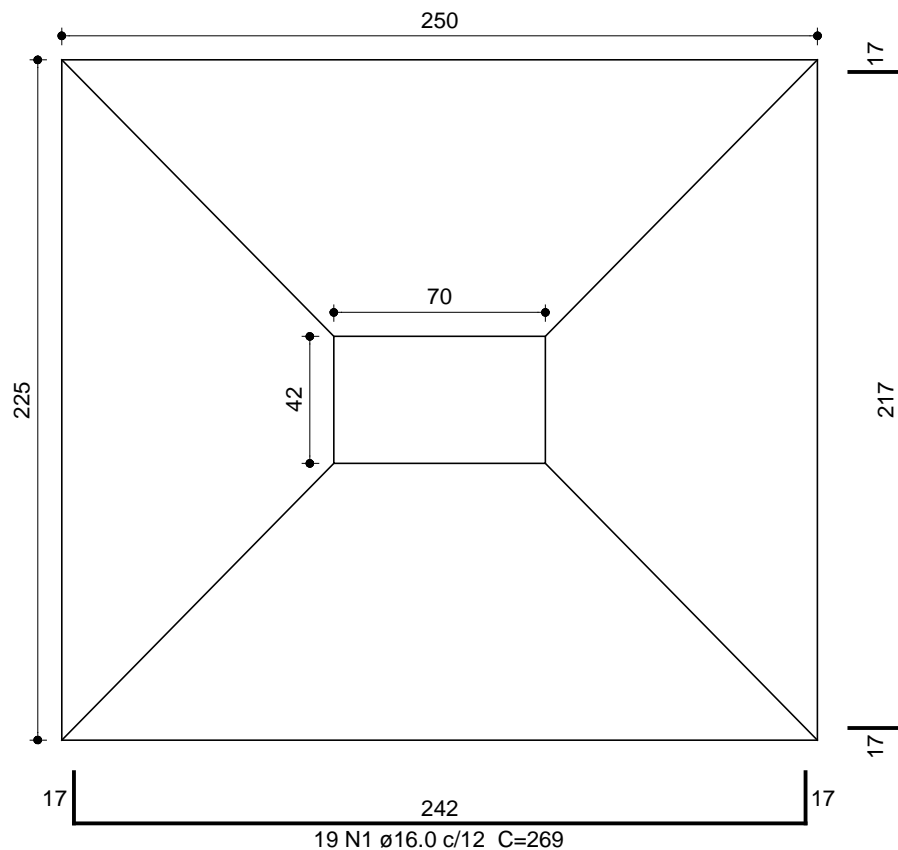


Solo compactado sobre a sapata  
peso específico > 1600.00 kgf/m³

CORTE  
ESC 1:25

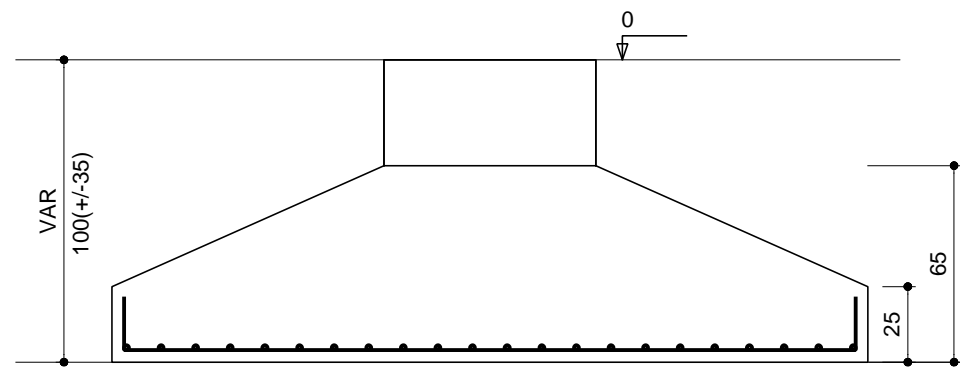


S1-30  
PLANTA  
ESC 1:25

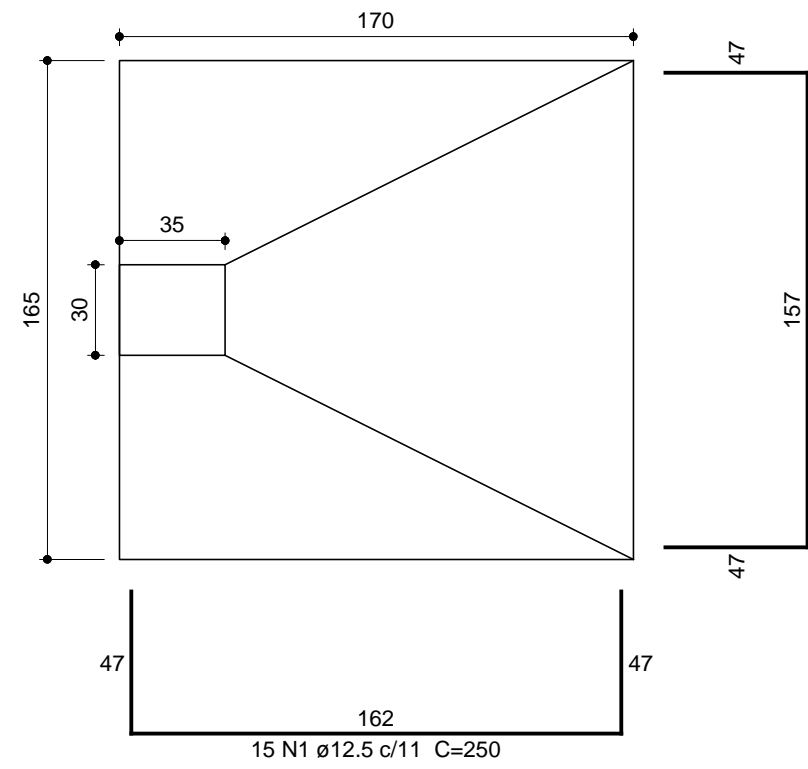


Solo compactado sobre a sapata  
peso específico > 1600.00 kgf/m³

CORTE  
ESC 1:25

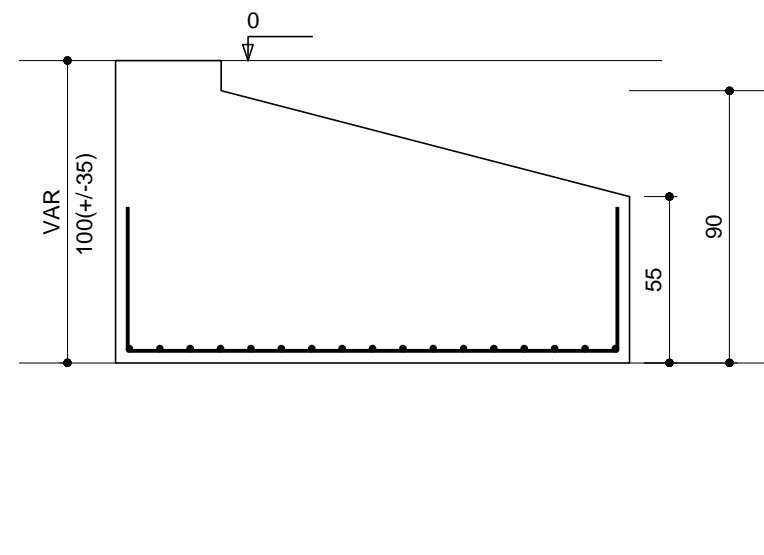


S29  
PLANTA  
ESC 1:25

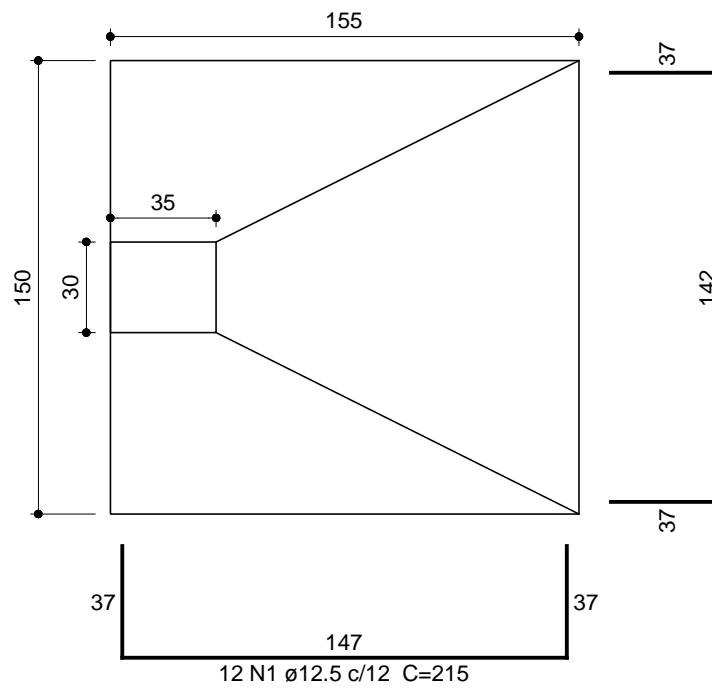


Solo compactado sobre a sapata  
peso específico > 1600.00 kgf/m³

CORTE  
ESC 1:25

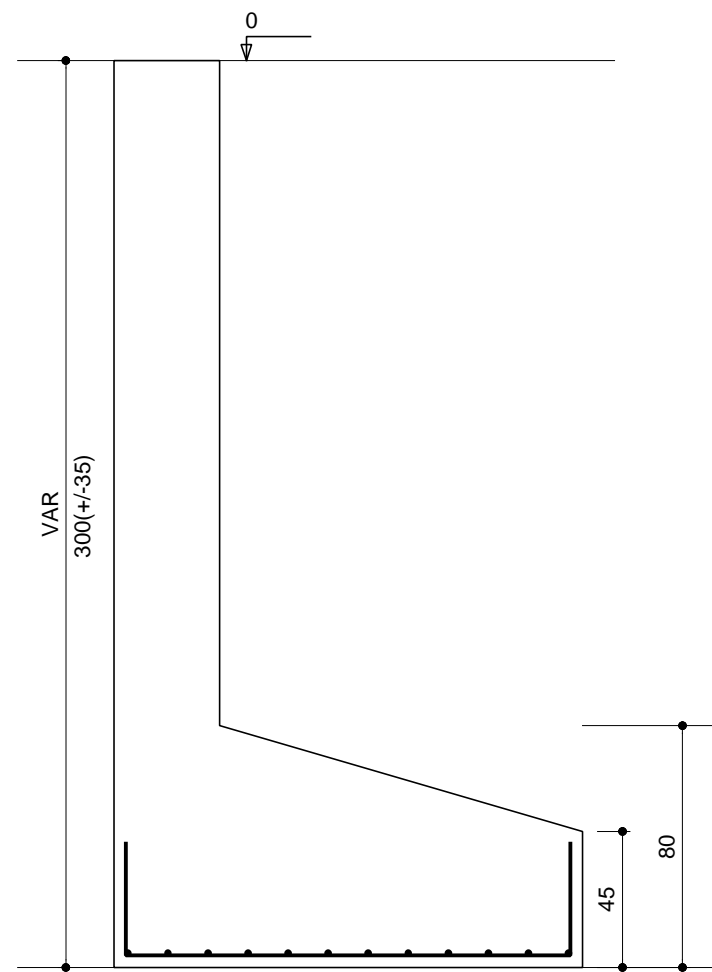


S33  
PLANTA  
ESC 1:25

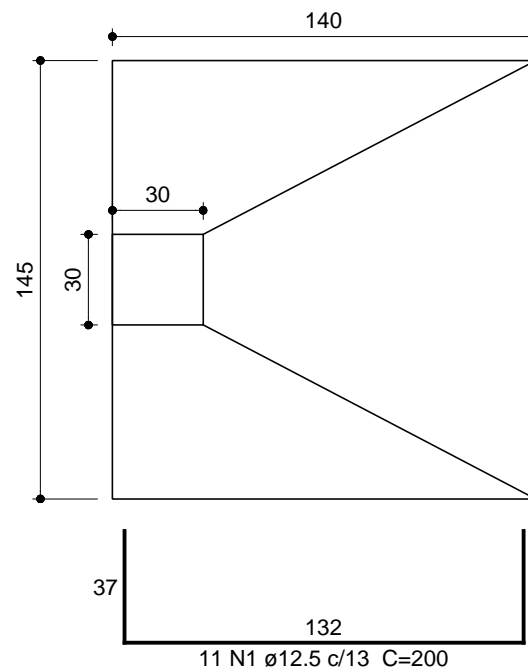


Solo compactado sobre a sapata  
peso específico > 1600.00 kgf/m³

CORTE  
ESC 1:25

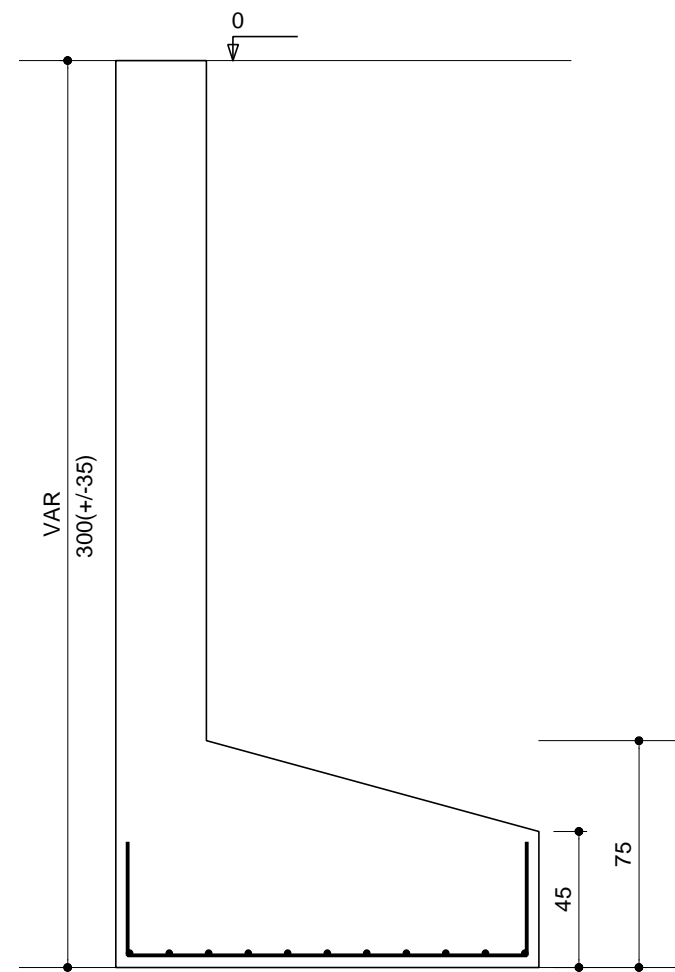


S34  
PLANTA  
ESC 1:25



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

CORTE  
ESC 1:25



Relação do aço

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
S29	CA50	1	12.5	15	250	3750
	CA50	2	12.5	17	245	4165
S33	CA50	1	12.5	12	215	2580
	CA50	2	12.5	12	210	2520
S34	CA50	1	12.5	11	200	2200
	CA50	2	12.5	11	205	2255
S35	CA50	1	12.5	15	225	3375
	CA50	2	12.5	13	240	3120
S36	CA50	1	12.5	9	160	1440
	CA50	2	12.5	7	175	1225
S1-30	CA50	1	16.0	19	269	5111
	CA50	2	16.0	22	244	5368
S2-31	CA50	1	16.0	34	314	10676
	CA50	2	16.0	35	304	10640
S3-32	CA50	1	16.0	29	224	6496

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	12.5	266.3	256.5
	16.0	383	604.4

PESO TOTAL (kg)

CA50 860.9

Volume de concreto (C35) = 14.93 m³  
Área de forma = 23.96 m²

00	EMIÇÃO INICIAL	31/10/2016
Nº	REVISÃO	DATA

<b>ESTEL ENGENHARIA</b> <small>Rua José Quirino, 147 - São João - CEP 88305-060 - Itajaí-SC Tel: (047) 3046-2001 - Fax: (047) 3046-2004 estel@estelengenharia.com.br - www.estelengenharia.com.br</small>		PROJETO Nº <b>1280/16</b>
PROJETO <b>PRÉDIO ADM. DA PREFEITURA DE PARANAGUÁ</b>		PROJETO <b>ESTRUTURAL</b>
CLIENTE <b>MUNICÍPIO DE PARANAGUÁ</b>		
CONTEÚDO <b>ARMAÇÃO DAS SAPATAS</b>		
PRANCHA Nº <b>06/75</b>	RESPONSÁVEL TÉCNICO <b>SÉRGIO LUIZ DO AMARAL LOZOVEY</b> CREA/SC 13708-0	PROPRIETÁRIO <b>PREFEITURA DE PARANAGUÁ</b> UNIDADE DE GERENCIAMENTO DE PROGRAMAS
AUTOR DO PROJETO <b>SÉRGIO LOZOVEY</b>	CAD <b>ARLINE DEPINÉ</b>	DATA <b>03/2016</b>
ÁREA <b>1.850,00 m²</b>	VERIFICAÇÃO <b>RENATO REIS</b>	IND. <b>IND.</b>
REVISÃO <b>00</b>		ARQUIVO <b>1280-EST-06-R0</b>
CONTROLE DE PROJETOS <b>PROJETO DEFINITIVO ( x )</b>		PROJETO NÃO DEFINITIVO ( )