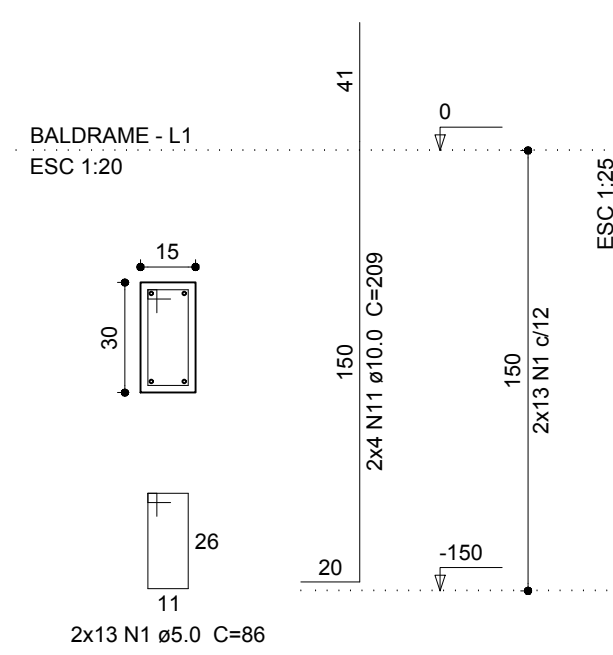
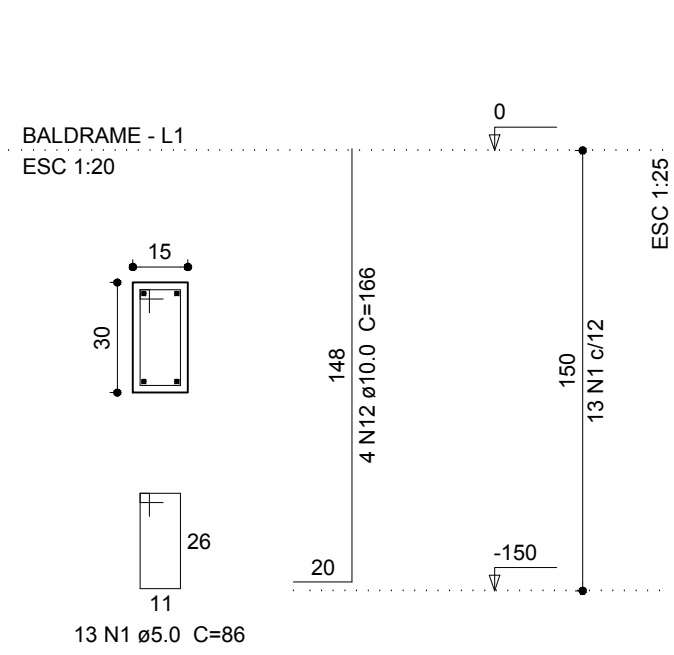


P10=P14

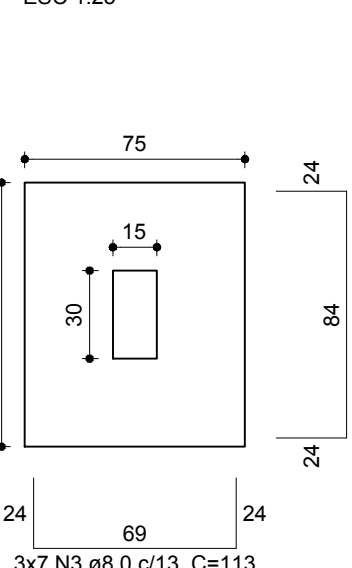


P6



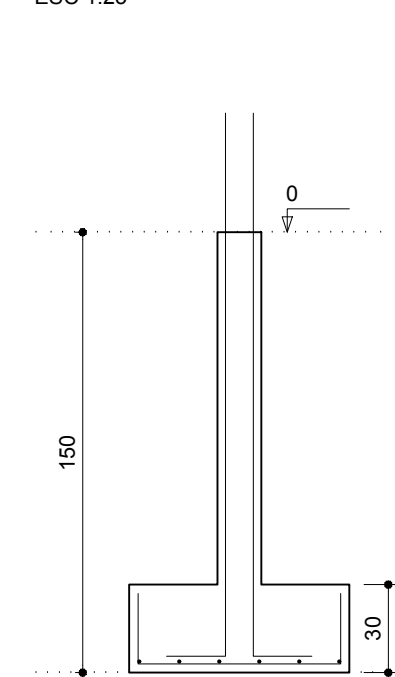
S6=S10=S14

PLANTA
ESC 1:25

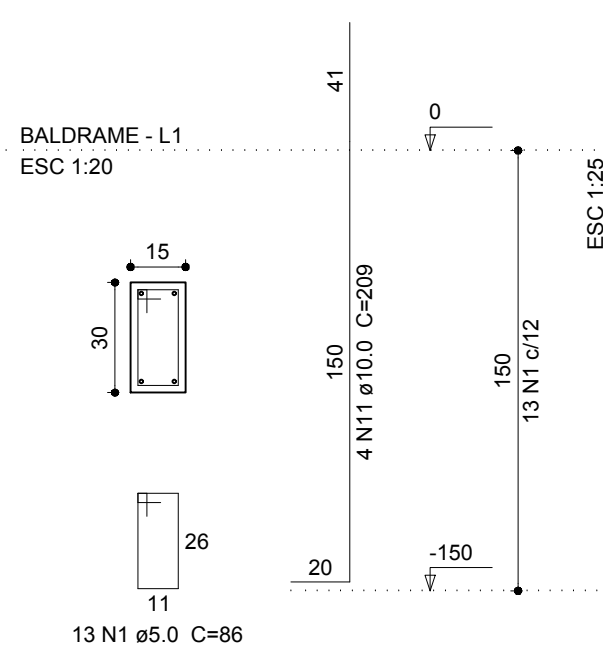


Solo compactado sobre a sapata
peso específico > 1600.00 kg/m³

CORTE
ESC 1:25

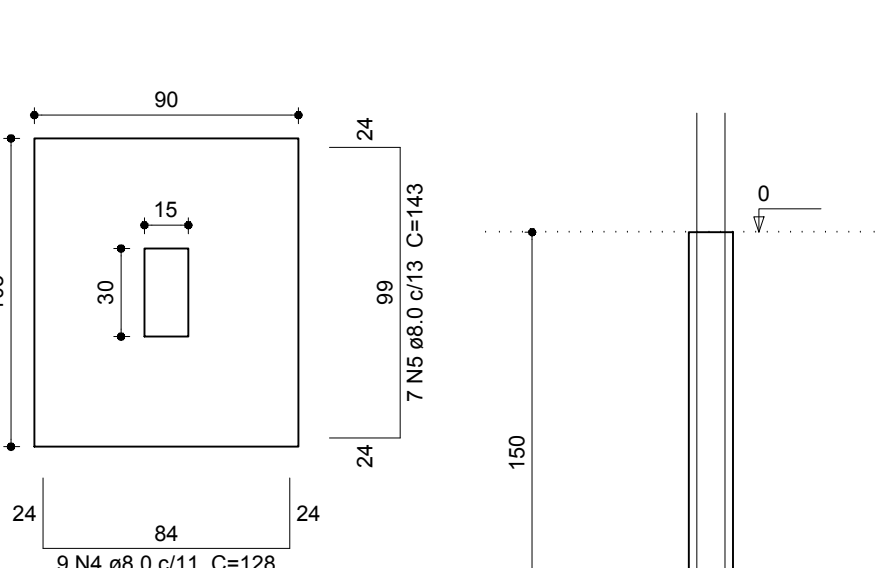


P4=P12=P13=P16=P17=P20=P22=P23



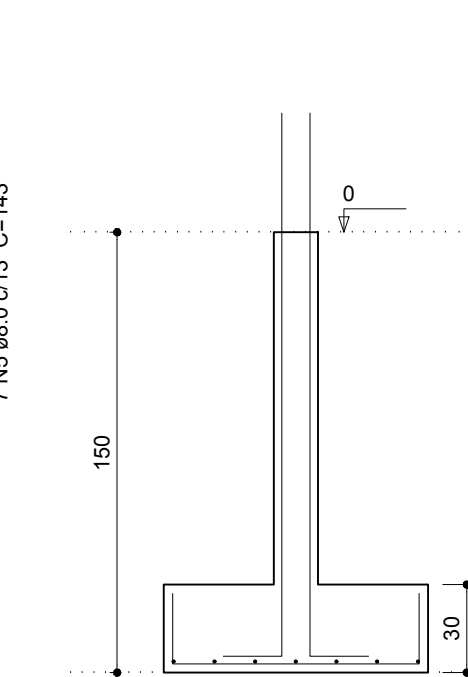
S4=S12=S13=S16=S17=S20=S22=S23

PLANTA
ESC 1:25

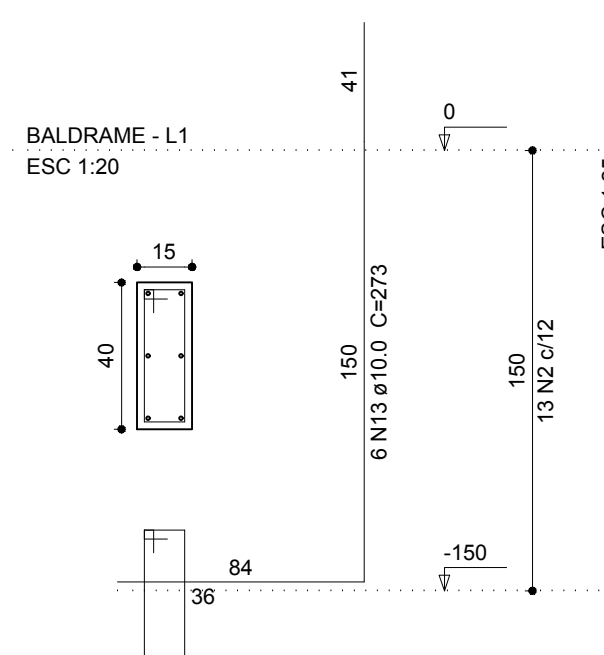


Solo compactado sobre a sapata
peso específico > 1600.00 kg/m³

CORTE
ESC 1:25

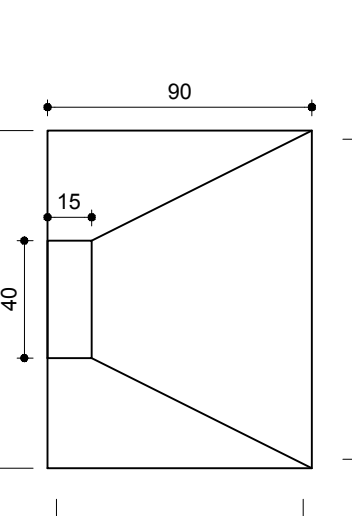


P21



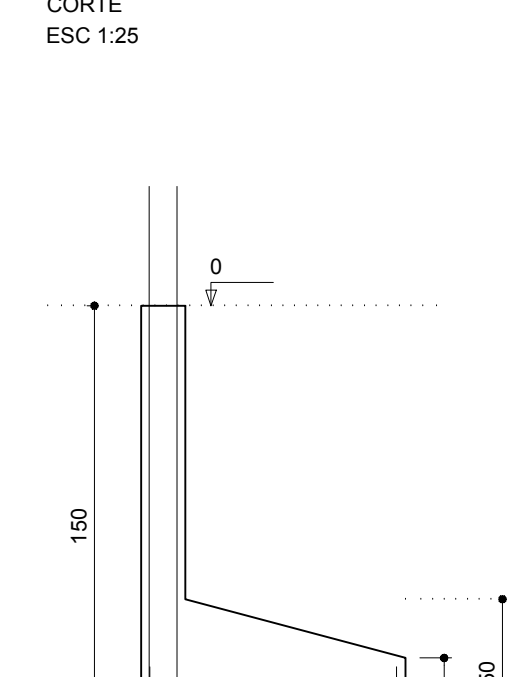
S21

PLANTA
ESC 1:25



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

CORTE
ESC 1:25



Relação do aço

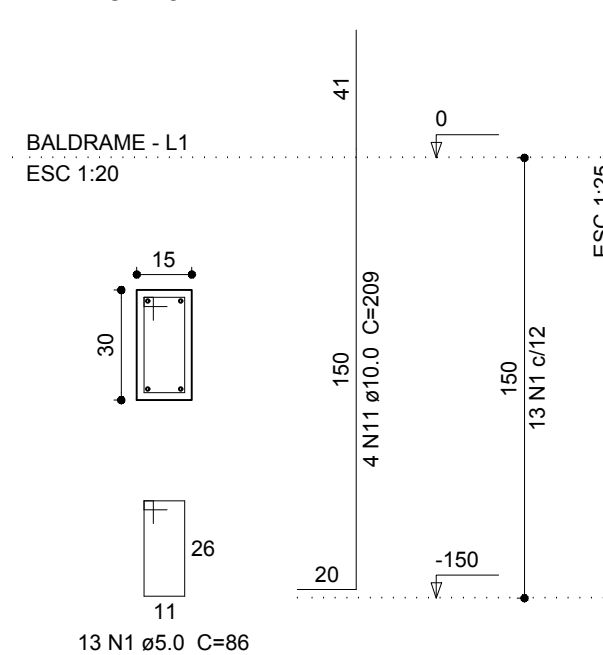
ACO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA80	1	5.0	273	86	23478
CA80	2	5.0	32	106	3512
CA80	3	8.0	21	113	2373
CA80	4	8.0	90	128	11520
CA80	5	8.0	56	143	8008
CA80	6	8.0	47	153	7191
CA80	7	8.0	44	158	6972
CA80	8	8.0	26	168	4368
CA80	9	8.0	12	163	1956
CA80	10	8.0	52	168	8736
CA80	11	10.0	76	209	15884
CA80	12	10.0	4	166	664
CA80	13	10.0	6	273	1638
CA80	14	10.0	10	127	1270
CA80	15	10.0	22	278	6116
CA80	16	10.0	22	142	3124
CA80	17	10.0	11	132	1452
CA80	18	10.0	4	283	1172
CA80	19	10.0	11	187	2057
CA80	20	10.0	44	162	6988
CA80	21	10.0	14	162	2268
CA80	22	10.0	10	177	1770
CA80	23	12.5	9	166	1494

Resumo do aço

ACO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA80	8.0	502.3	198.41
CA80	10.0	441.1	242.16
CA80	12.5	15	14.45
CA80	PESO TOTAL (kg)	289.9	44.64
CA80		455.02	
CA80		44.64	

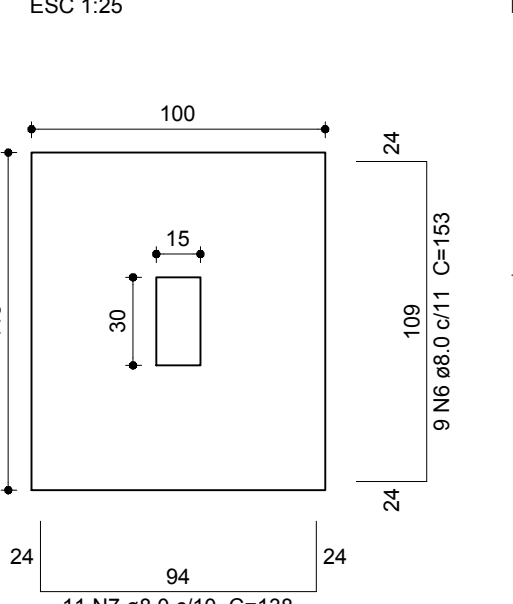
Volume de concreto (C-20) = 11.13 m³
Área de forma = 66.24 m²

P1=P5=P9=P11



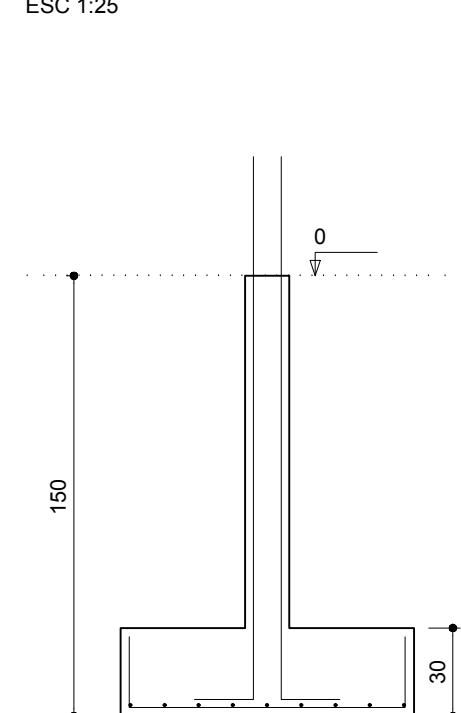
S1=S5=S9=S11

PLANTA
ESC 1:25

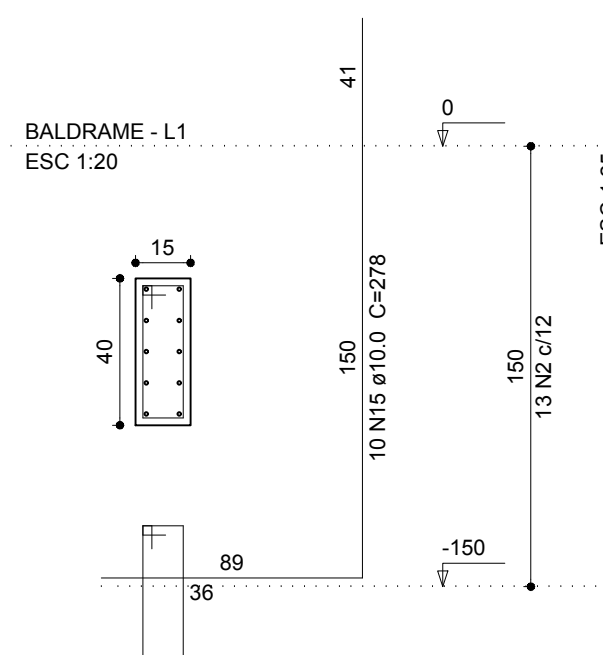


Solo compactado sobre a sapata
peso específico > 1600.00 kg/m³

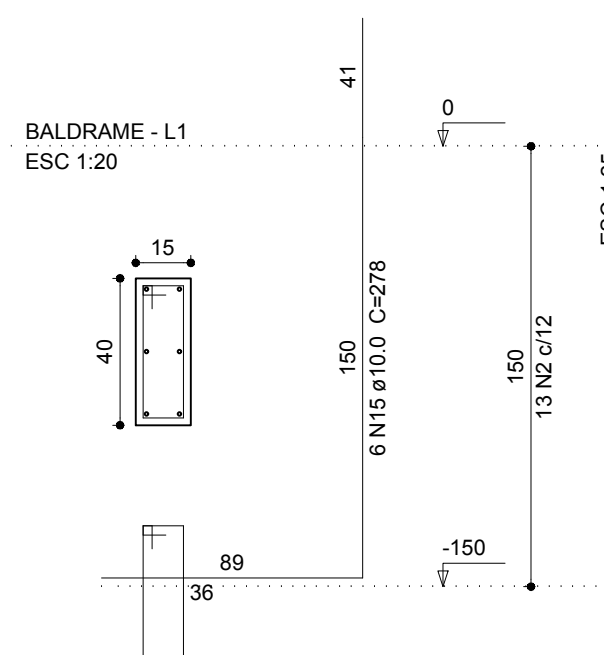
CORTE
ESC 1:25



P25

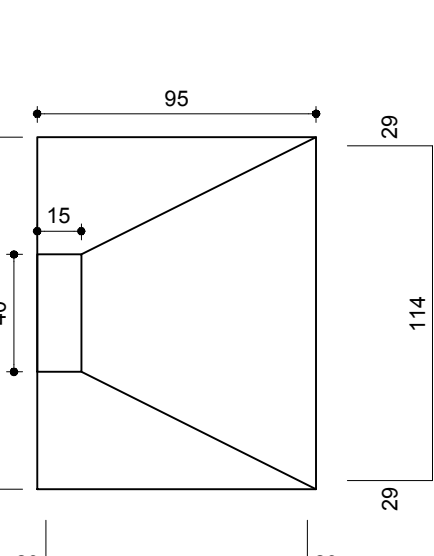


P3



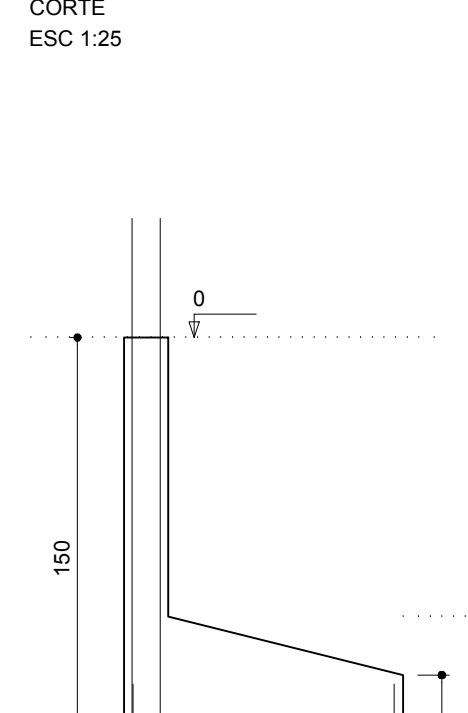
S3=S25

PLANTA
ESC 1:25

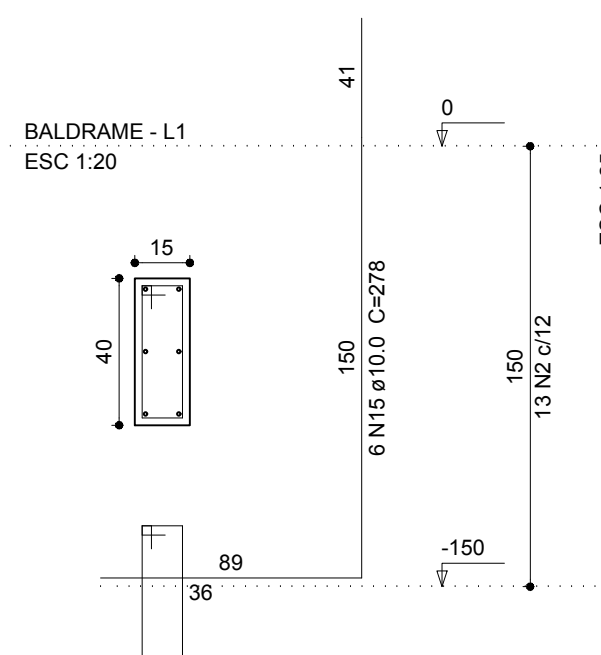


Solo compactado sobre a sapata
peso específico > 1600.00 kg/m³

CORTE
ESC 1:25

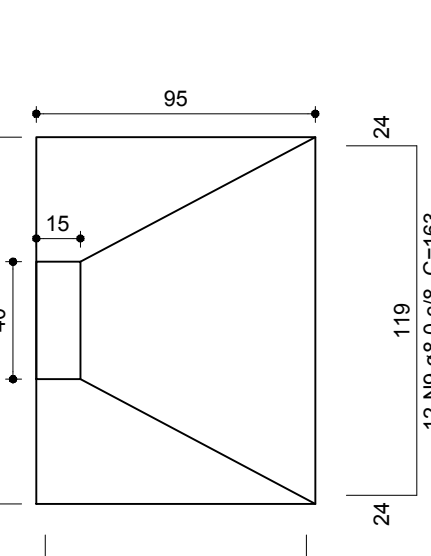


P7



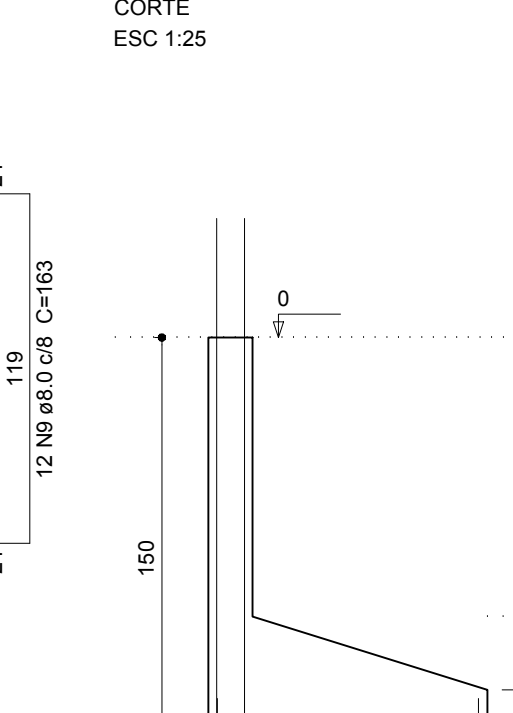
S7

PLANTA
ESC 1:25

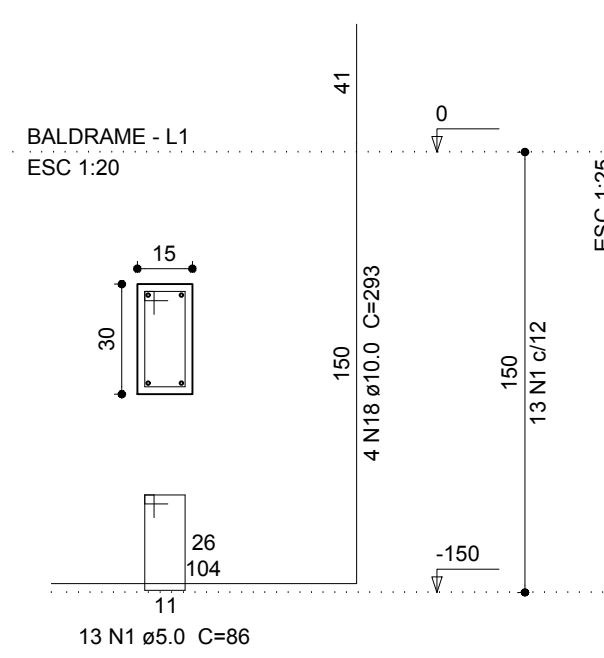


Solo compactado sobre a sapata
peso específico > 1600.00 kg/m³

CORTE
ESC 1:25

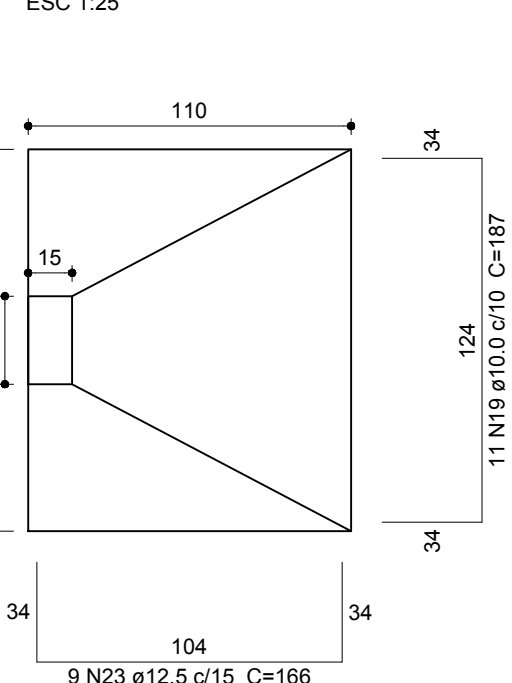


P18



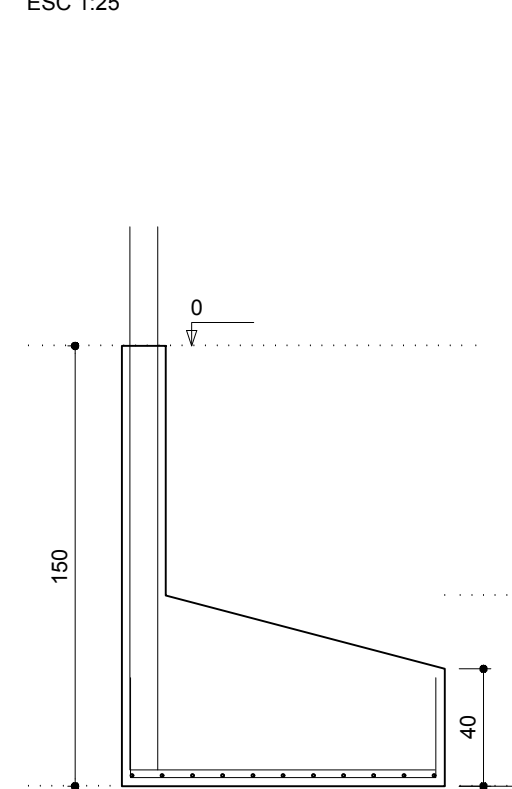
S18

PLANTA
ESC 1:25

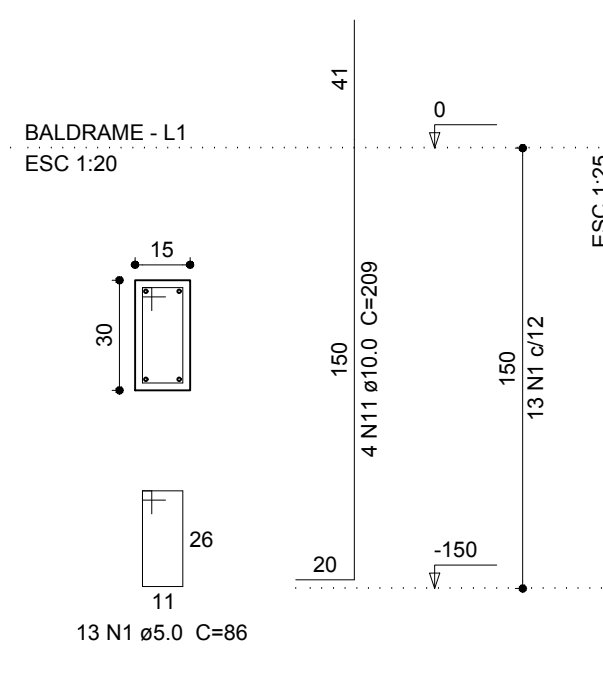


Solo compactado sobre a sapata
peso específico > 1600.00 kg/m³

CORTE
ESC 1:25

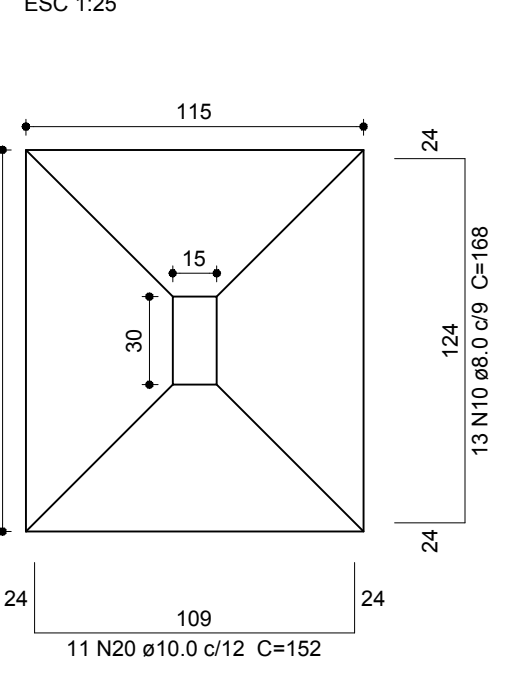


P2=P8=P15=P24



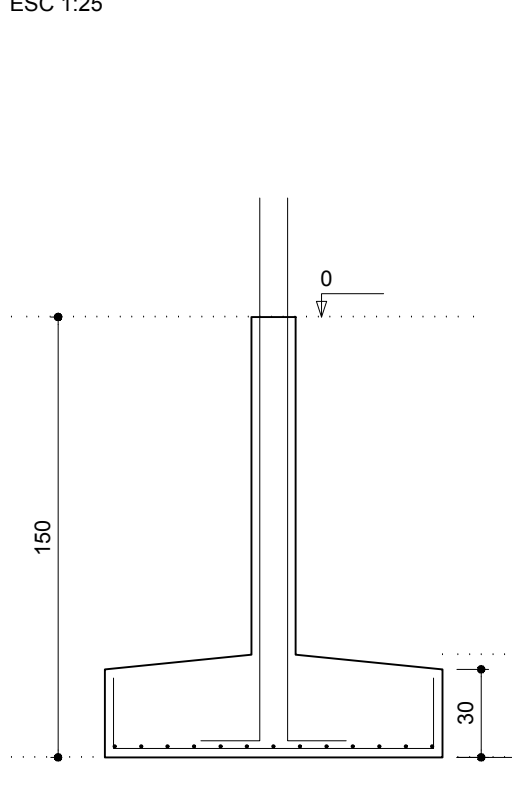
S2=S8=S15=S24

PLANTA
ESC 1:25

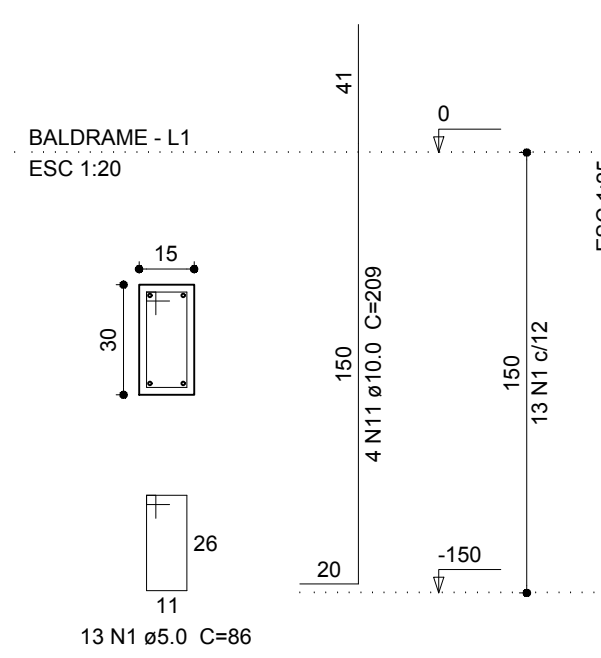


Solo compactado sobre a sapata
peso específico > 1600.00 kg/m³

CORTE
ESC 1:25

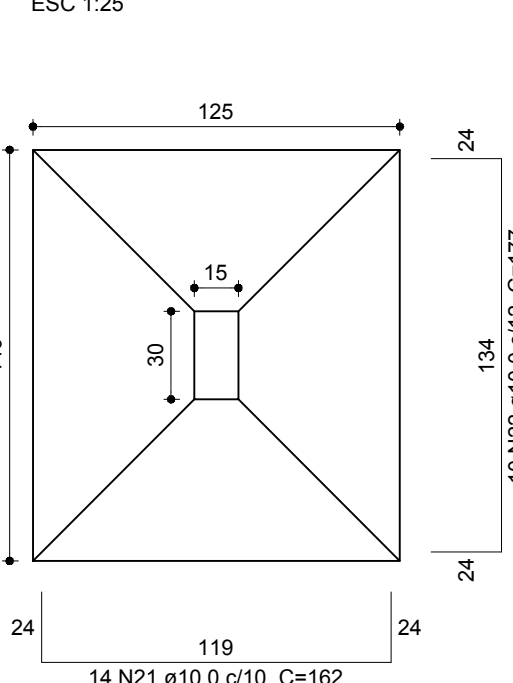


P19



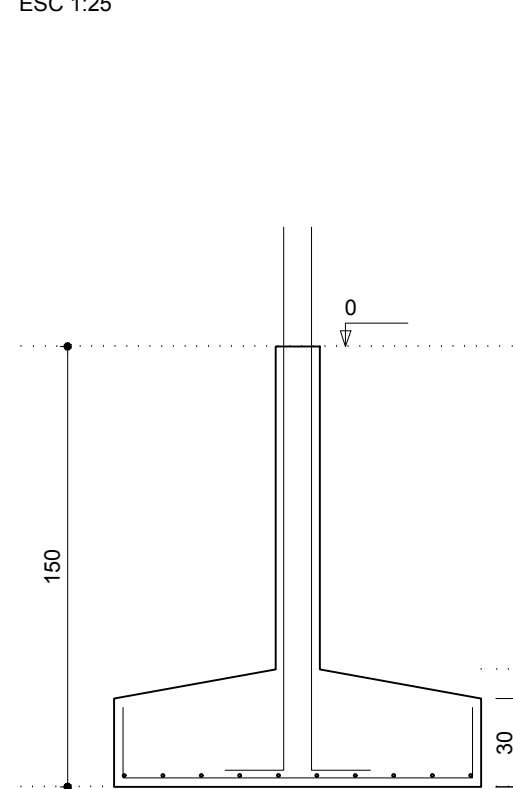
S19

PLANTA
ESC 1:25



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

CORTE
ESC 1:25



APPROVAÇÃO:

Governo do Estado do Tocantins
Secretaria de Estado da Saúde
Diretoria de Arquitetura e Engenharia
dos Estabelecimentos de Saúde

OBJETO: AMPLIAÇÃO DO REFETÓRIO DO HOSPITAL REGIONAL DE GURUPI
PROJETO: GURUPI / TO
CONTEÚDO: ESTRUTURA EM CONCRETO ARMADO
SAPATAS

AUTORIA DO PROJETO: MARCELO CAMPOS MONTEIRO
DIRETORIA: MARCELO CAMPOS MONTEIRO
ENGENHEIRO CIVIL
CREA 996132708/GO-SP

ÁREA EXISTENTE: VER PROJETO ARQUITETÔNICO
ÁREA A ADRIAR: VER PROJETO ARQUITETÔNICO
ÁREA A REFORMAR: VER PROJETO ARQUITETÔNICO
ÁREA TOTAL: VER PROJETO ARQUITETÔNICO
NOME DO PROJETO: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
DATA: 25/05/2018
ASSINATURA: MARCELO CAMPOS MONTEIRO
08/11
A0