

RELACÃO DO AÇO - VIGAS NÍVEL 0 BALDRAME						
	V1	V2	V3	V4	V5	V6
	V7	V8	V9			
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5,0	56	65	75	3640
CA60	2	5,0	289	75	75	21675
CA60	3	6,3	37	44	352	13072
CA60	4	6,3	4	352	1406	1406
CA60	5	6,3	2	273	546	546
CA60	6	8,0	2	438	348	348
CA60	7	8,0	2	323	646	646
CA60	8	8,0	2	580	1160	1160
CA60	9	8,0	2	527	1054	1054
CA60	10	8,0	2	318	636	636
CA60	11	8,0	2	438	876	876
CA60	12	8,0	2	438	876	876
CA60	13	8,0	2	223	526	526
CA60	14	8,0	2	223	526	526
CA60	15	8,0	2	442	439	439
CA60	16	8,0	2	442	1884	1884
CA60	17	8,0	2	442	1134	1134
CA60	18	8,0	4	951	3804	3804

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (mm)	PESO +10% (kg)	7,7
CA60	6,3	317	80,4	59
CA60	8,0	2532	59	
PESO TOTAL				
CA60	88,1			
CA60	39			

Volume de concreto (C-20 MPa) = 1,91 m³

Área de forma = 36,26 m²

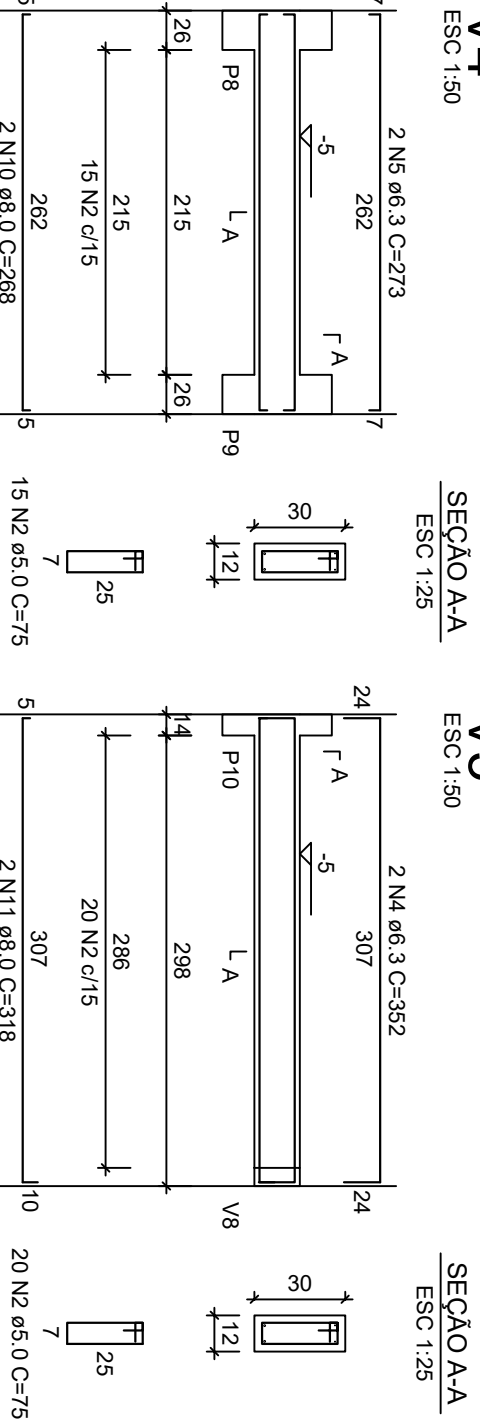
RELACÃO DO AÇO - SAPATAS E PILARES DE ARRANQUE - NÍVEL 0 BALDRAME						
	13xP1		13xS1			
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)	C.TOTAL (cm)
CA60	1	5,0	117	71	8307	8307
CA60	2	6,3	156	70	10920	10920
CA60	3	10,0	52	VAR	VAR	VAR

RESUMO DO AÇO

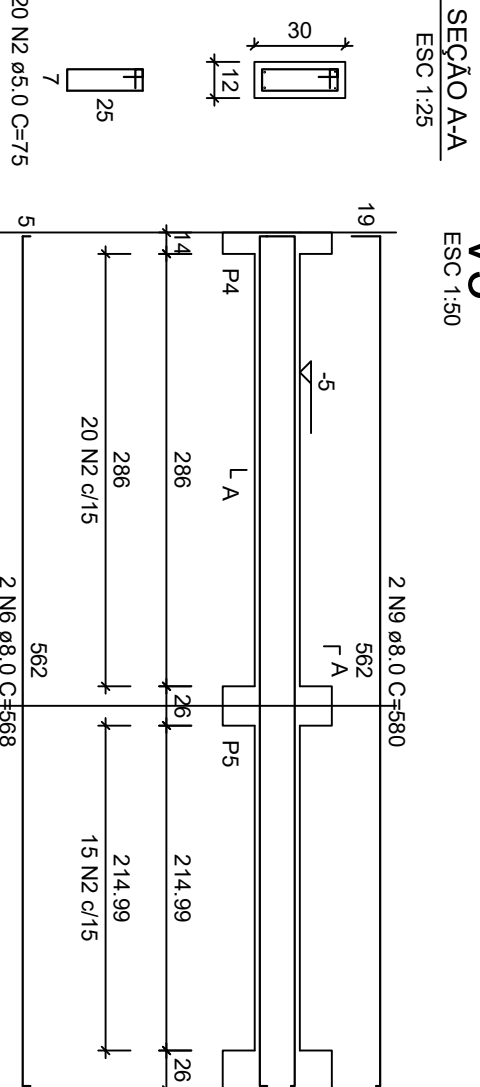
AÇO	DIAM (mm)	C.TOTAL (m)	PESO +0% (kg)	26,7
CA50	6,3	1692	26,7	
CA60	10,0	107	83,1	12,8
PESO TOTAL				
CA50	77,4			
CA60	12,8			

Volume de concreto (C-20 MPa) = 1,41 m³

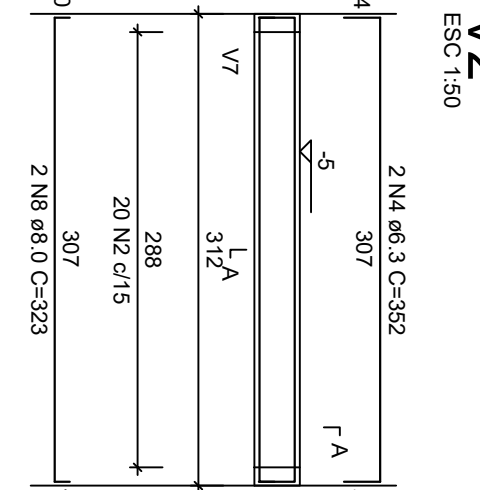
Área de forma = 16,64 m²



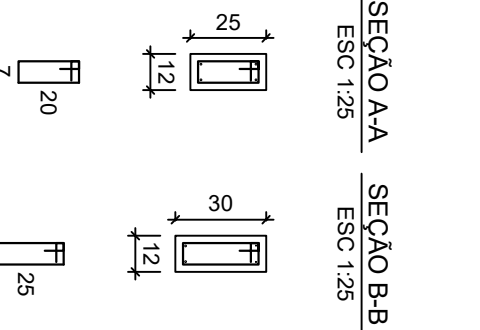
V5



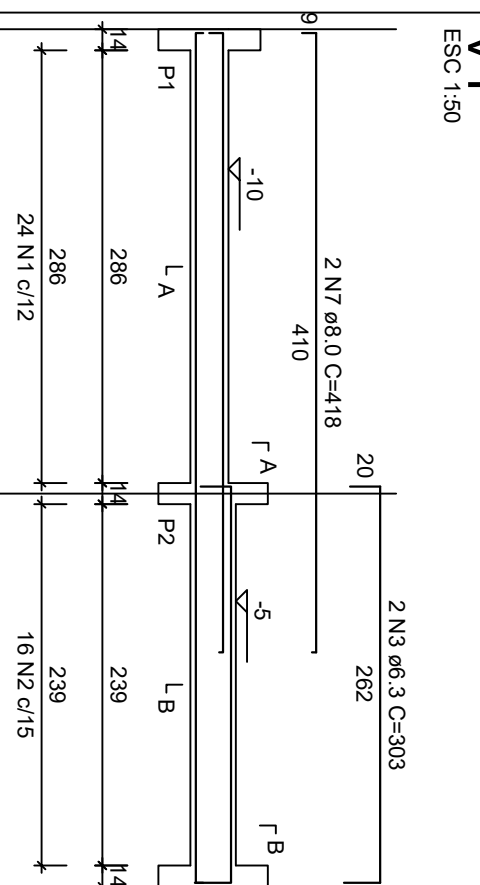
V4



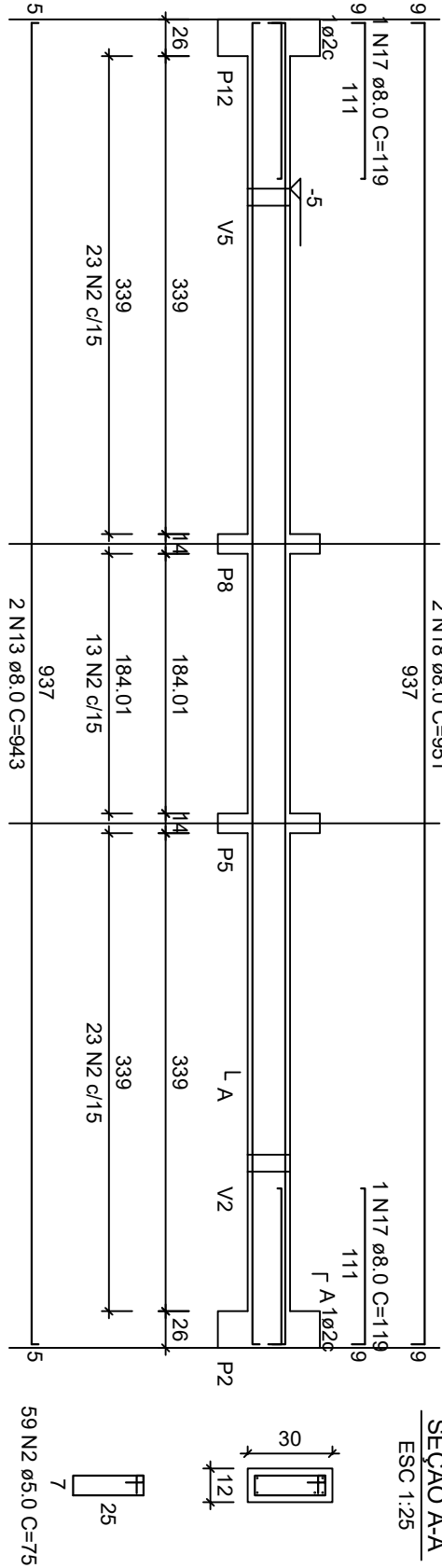
V3



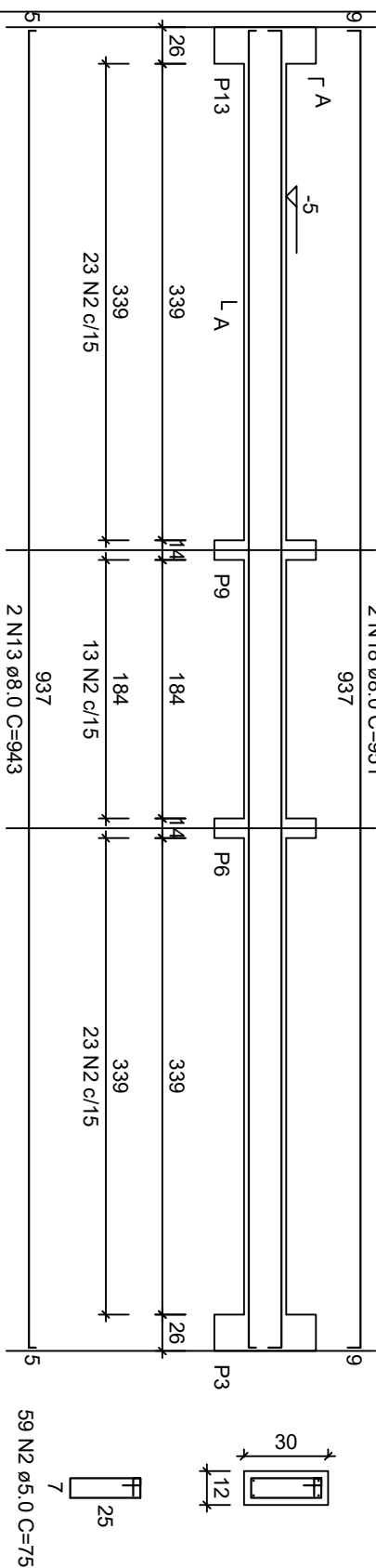
V2



V1



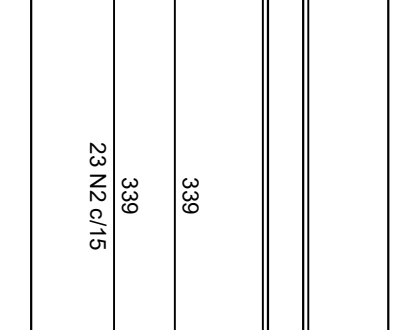
V9



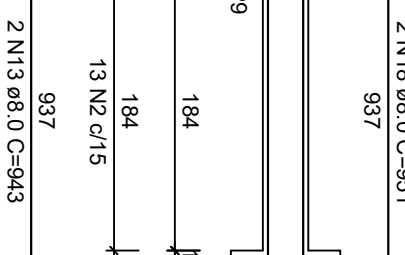
V7



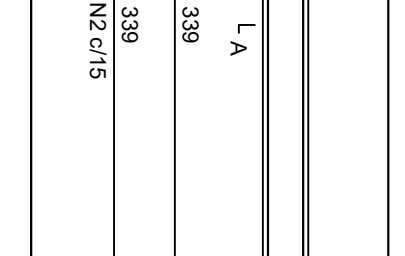
V6



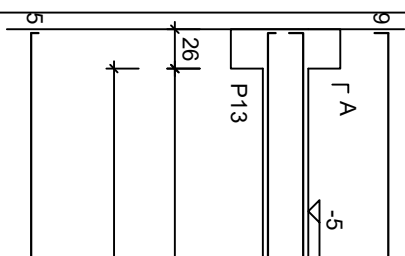
V5



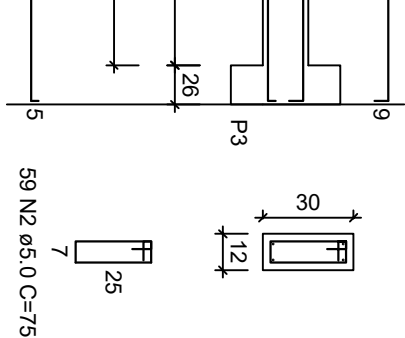
V4



V3



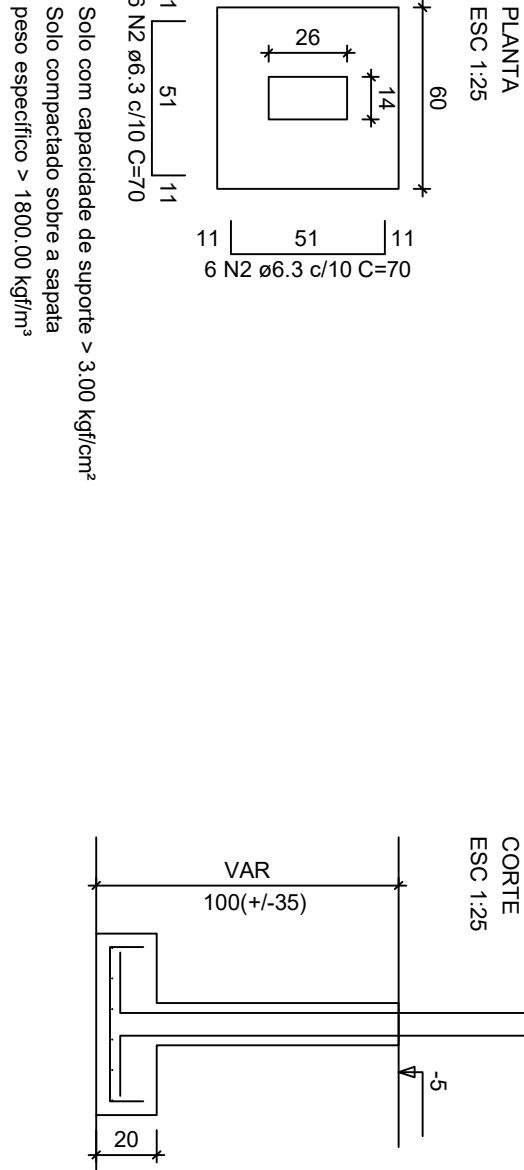
V2



V1

P1=P2=P3=P4=P5=P6=P7=
=P8=P9=P10=P11=P12=
=P13

S1=S2=S3=S4=S5=S6=S7=S8=S9=S10=S11=S12
=S13



ATENÇÃO:
Adotado Classe de Agressividade Ambiental I,
conforme NBR 6118/2024, item 7.4.7.6. O
responsável técnico deve verificar necessidade de
ajustes conforme características locais da obra.

ATENÇÃO:
Considerando que o segmento de arranque de pilar
em contato com o solo é variável conforme cada local
e características de obra, e de forma a atender a NBR
6118/2024, item 7.4.8.1a,b, 7.2 (b) (i...), No
caso de adoção de classe de agressividade ambiental I,
os elementos de fundação, a armadura deve ter
cobrimento nominal >= 45mm), para aumento de
durabilidade, recomenda-se executar a caixa de
arranques na parte em contato com o solo com
atrasamento maior.

Exemplo: Se o pilar for 14x26, e adotado classe de
agressividade ambiental I, cobrimento 2,5cm, é
recomendável fazer o trecho de caixa de arranque
com o solo com 2,0cm a mais em cada face, ou seja,
18x30.

REF. DE M. DE INTERESSE SOCIAL

PROJETO ESTRUTURAL

PLANTA DE ARMADURAS
NÍVEL 0 - BALDRAME

PREF. MUNIC.
QUARTEL GERAL

Desenho: xxx	Desenho: 01
Escala: Indicada	Revisão: 01
Data: 03/02/2026	Unidade: cm
Folha: 02/03	