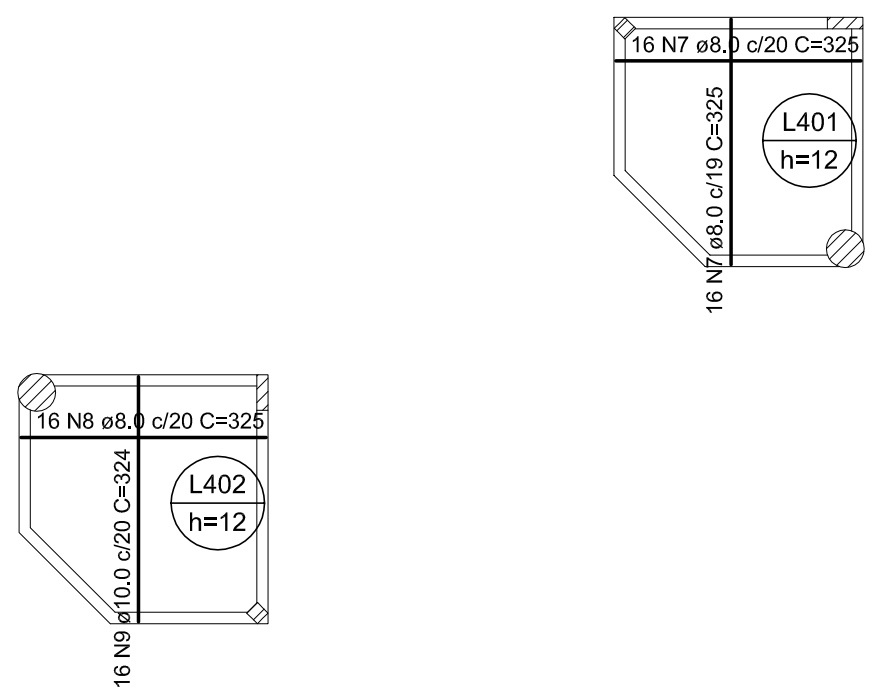
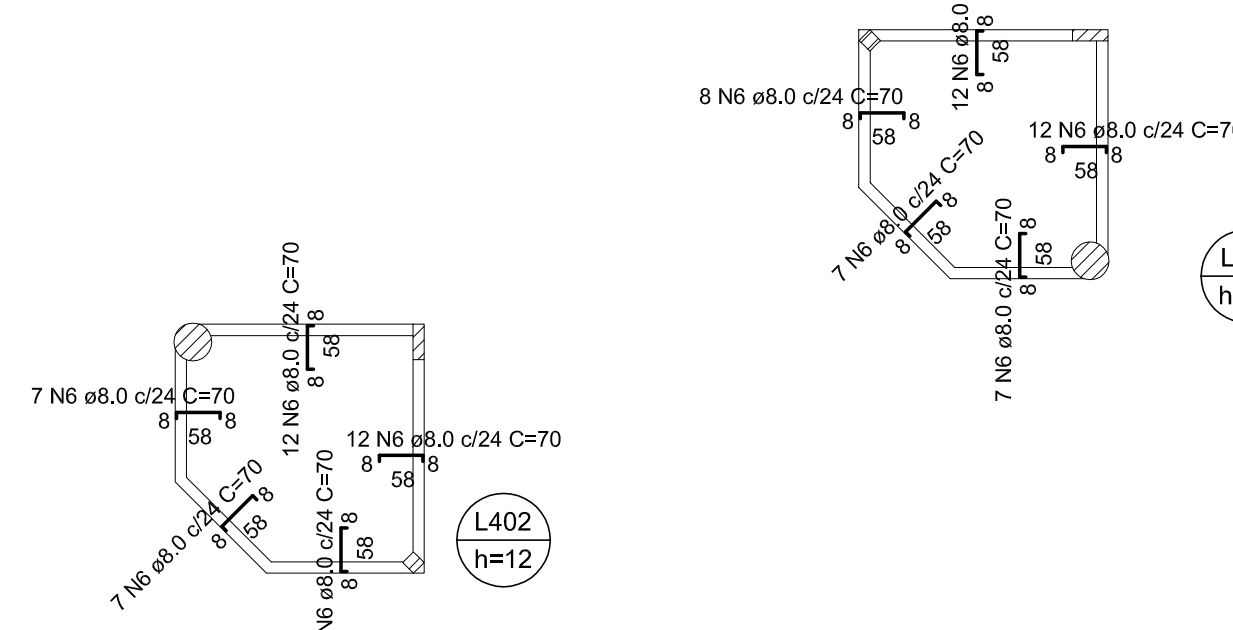


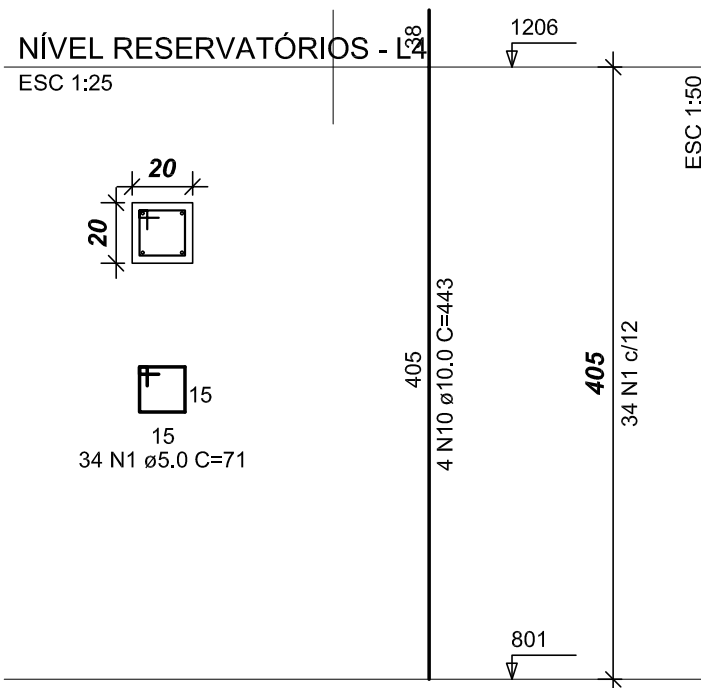
ARMAÇÃO POSITIVA DAS LAJES DO NÍVEL RESERVATÓRIOS
escala 1:100



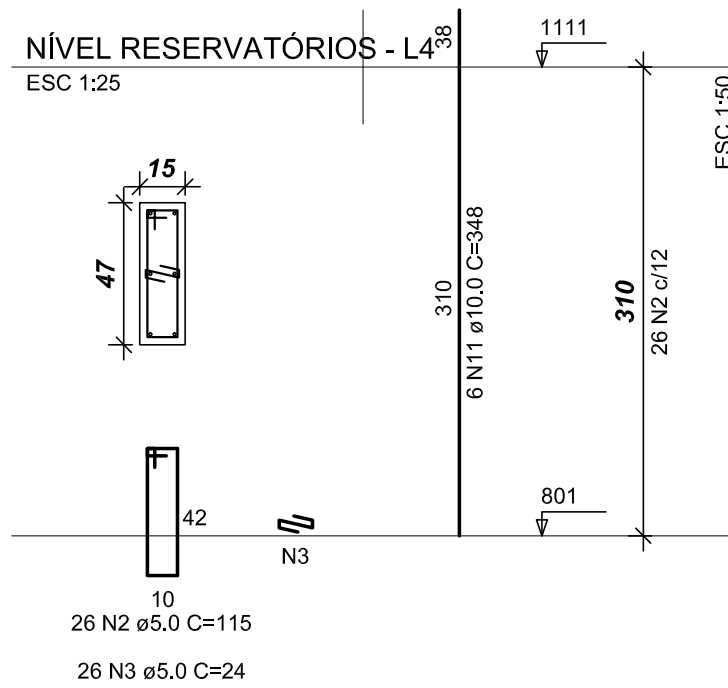
ARMAÇÃO NEGATIVA DAS LAJES DO NÍVEL RESERVATÓRIOS
escala 1:100



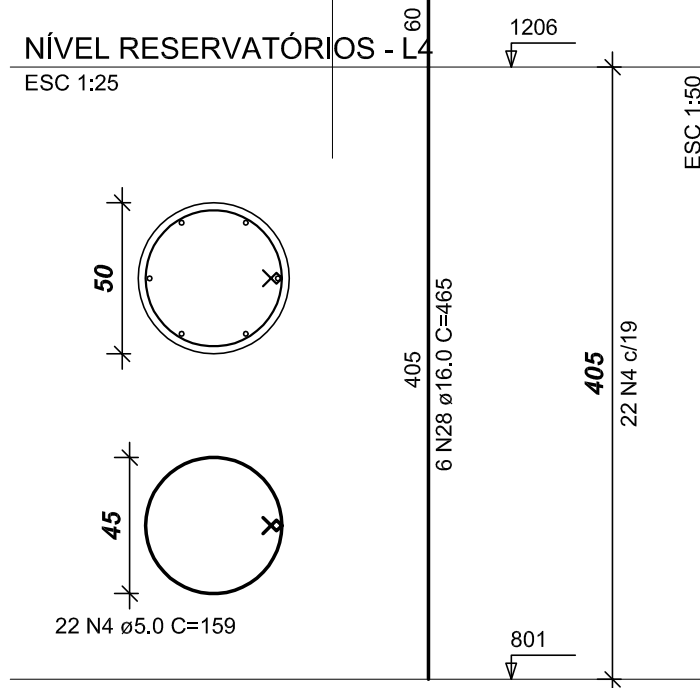
P32=P67



P33=P44=P59=P66

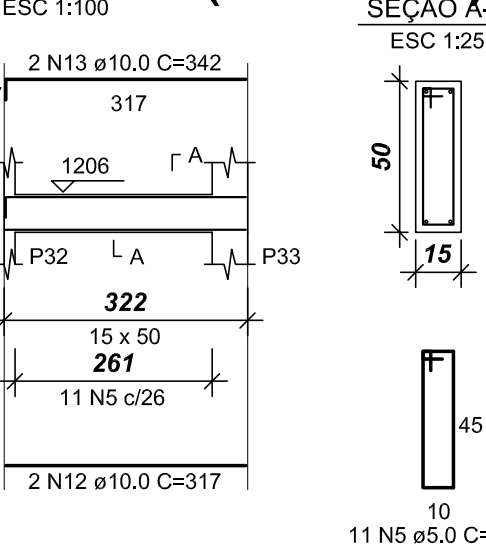


P45=P58

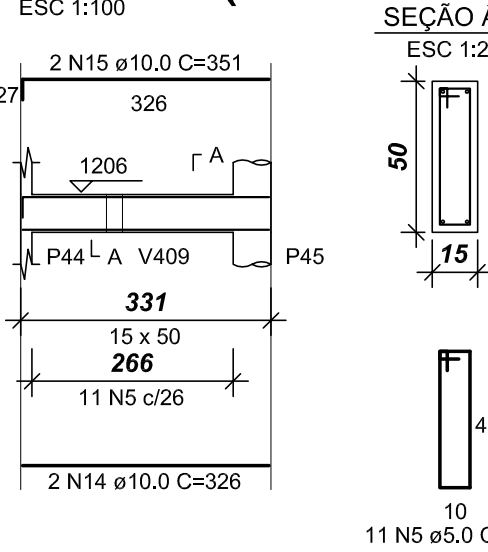


RELAÇÃO DO AÇO PILARES, VIGAS E LAJES DO NÍVEL RESERVATÓRIOS						
ACO	N	DIAM	Q	UNIT	C.TOTAL	
60	1	5,0	68	71	4628	
	2	5,0	104	115	11860	
	3	5,0	104	24	2486	
	4	5,0	44	160	6996	
	5	5,0	100	121	12100	
	6	5,0	62	70	6440	
	7	8,0	32	325	10400	
	8	8,0	16	325	5300	
	9	10,0	16	324	5194	
	10	10,0	8	443	3544	
50	11	10,0	24	348	8352	
	12	10,0	4	317	1268	
	13	10,0	4	342	1368	
	14	10,0	4	326	1304	
	15	10,0	4	351	1404	
	16	10,0	2	318	636	
	17	10,0	2	343	686	
	18	10,0	2	351	702	
	19	10,0	2	318	636	
	20	10,0	2	343	686	
RESUMO DO AÇO						
ACO	DIAM	C.TOTAL		PESQ+0%		
	(mm)	(kg)		(kg)		
CA50	8,0	220,7		87,2		
CA60	10,0	294,2		181,4		
CA60	5,0	384,7		88,2		
PESO TOTAL				356,8		
CA50				356,8		
CA60				29,2		
Vol. de concreto total (C-25)				7,05 m³		
Área de forma total				85,73 m²		

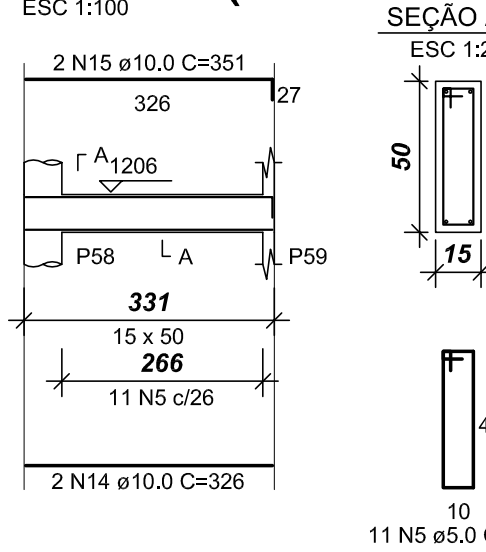
V401 (15 x 50)



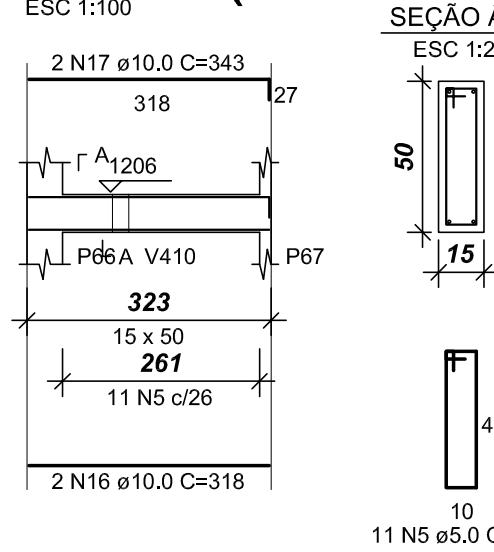
V402 (15 x 50)



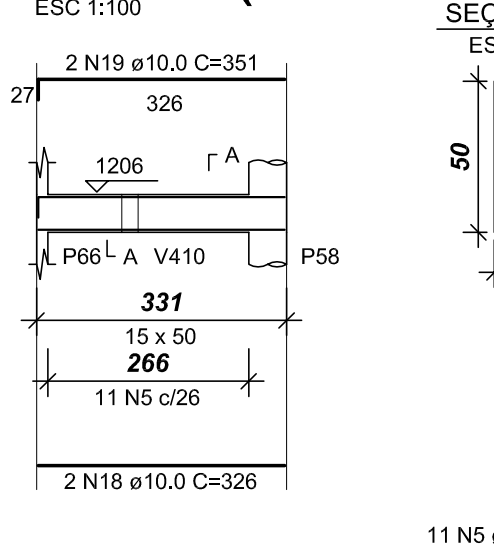
V403 (15 x 50)



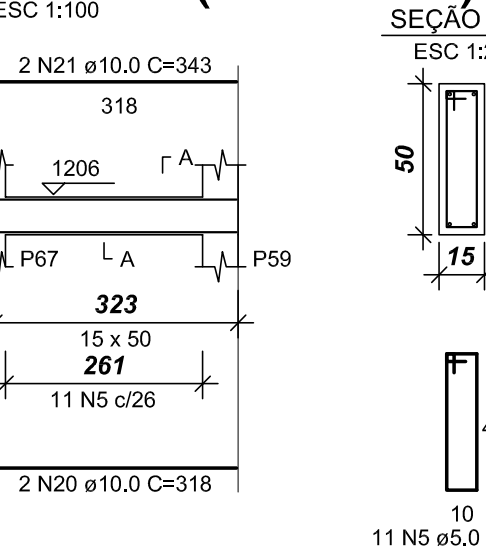
V404 (15 x 50)



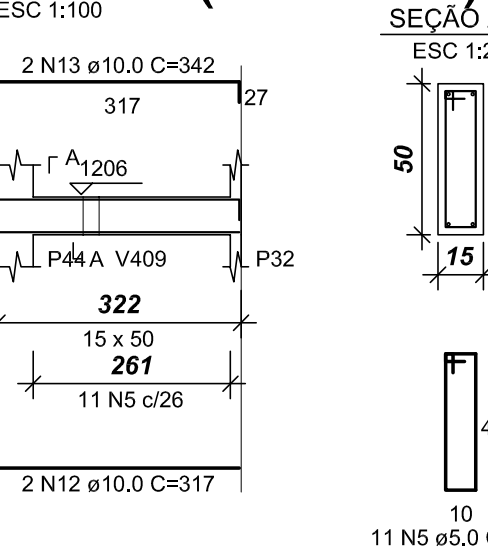
V405 (15 x 50)



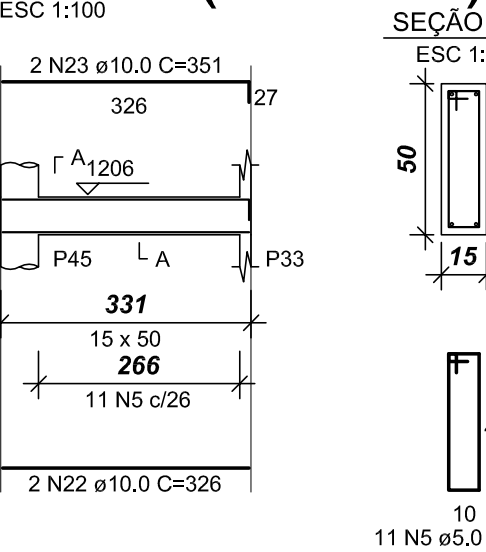
V406 (15 x 50)



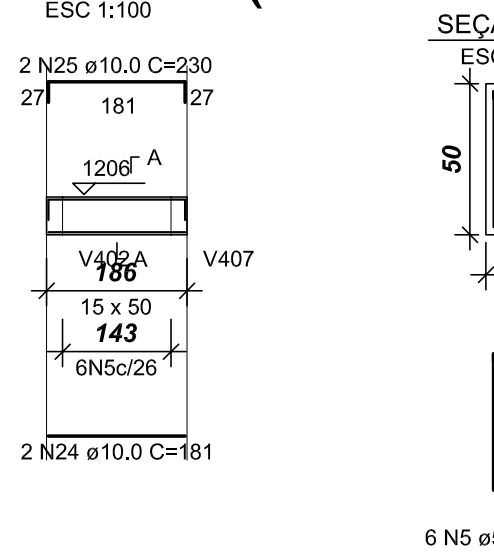
V407 (15 x 50)



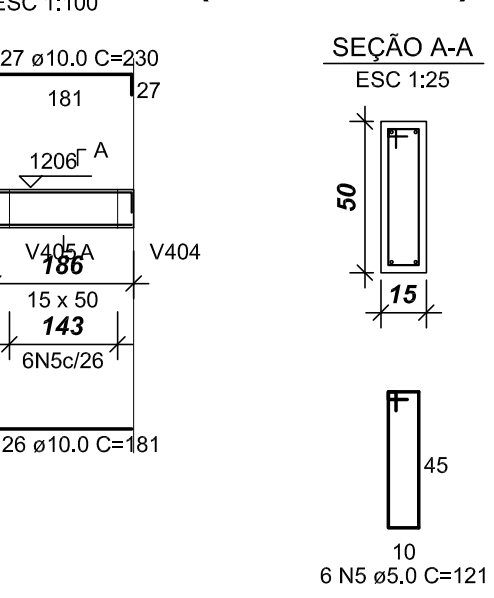
V408 (15 x 50)



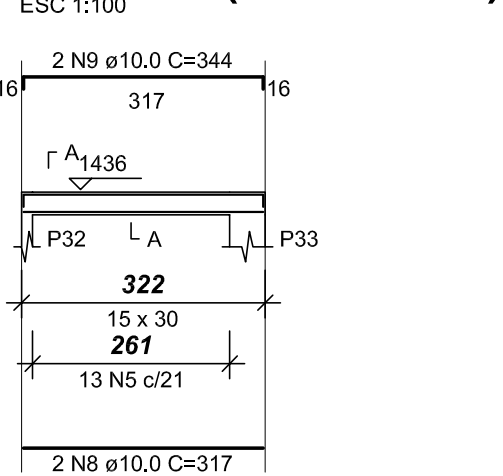
V409 (15 x 50)



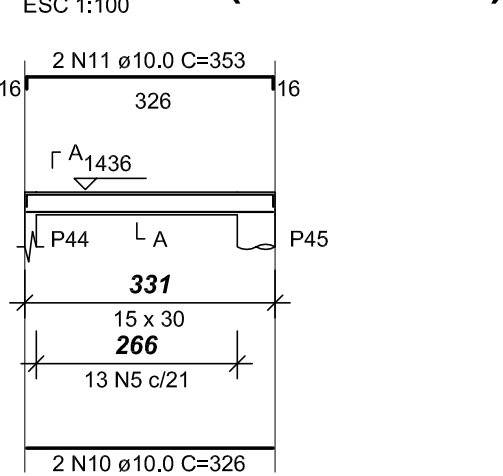
V410 (15 x 50)



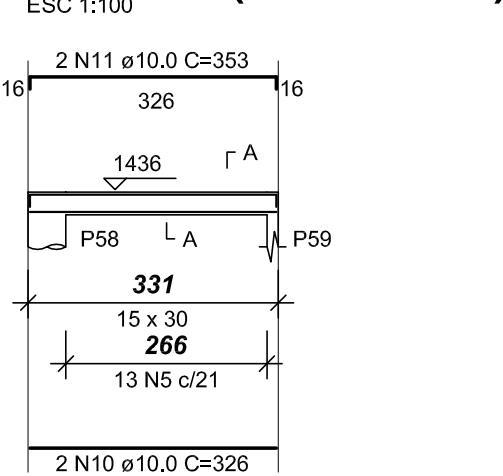
V501 (15 x 30)



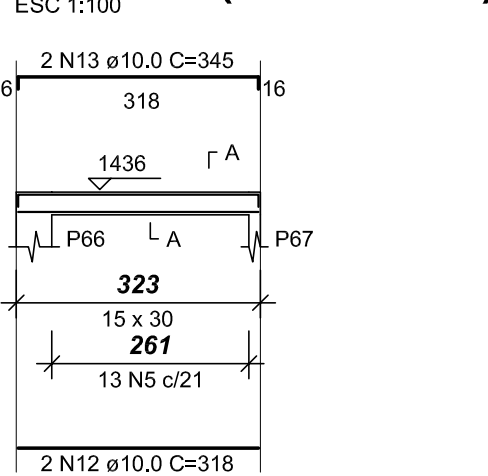
V502 (15 x 30)



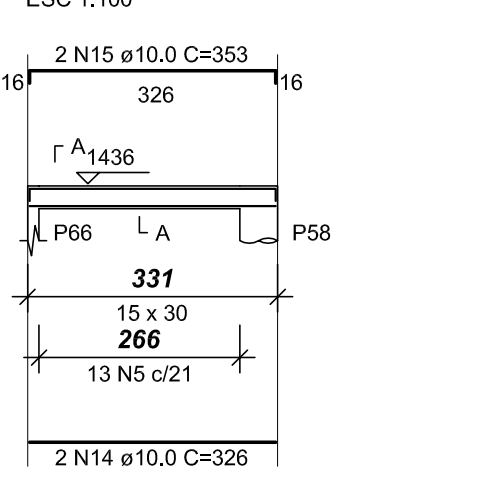
V503 (15 x 30)



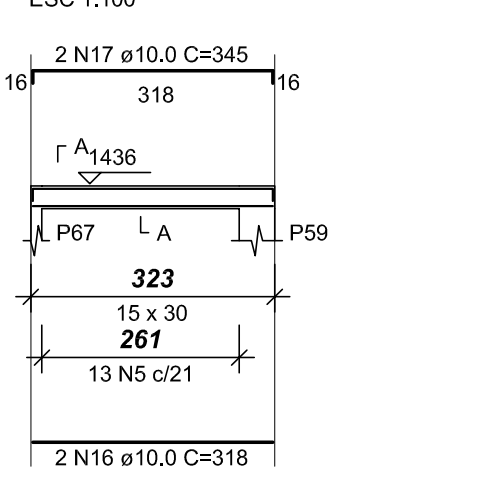
V504 (15 x 30)



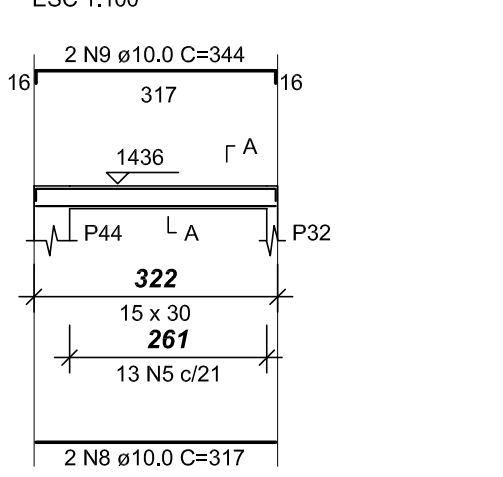
V505 (15 x 30)



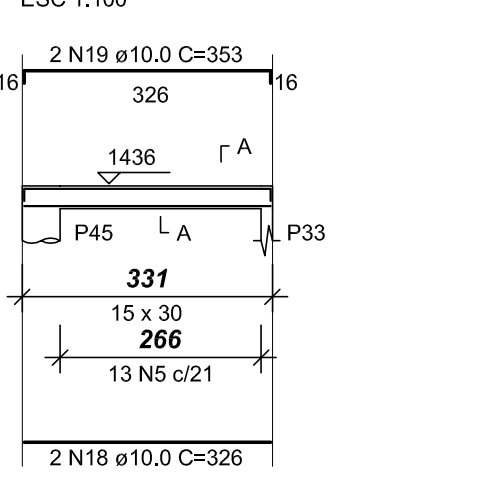
V506 (15 x 30)



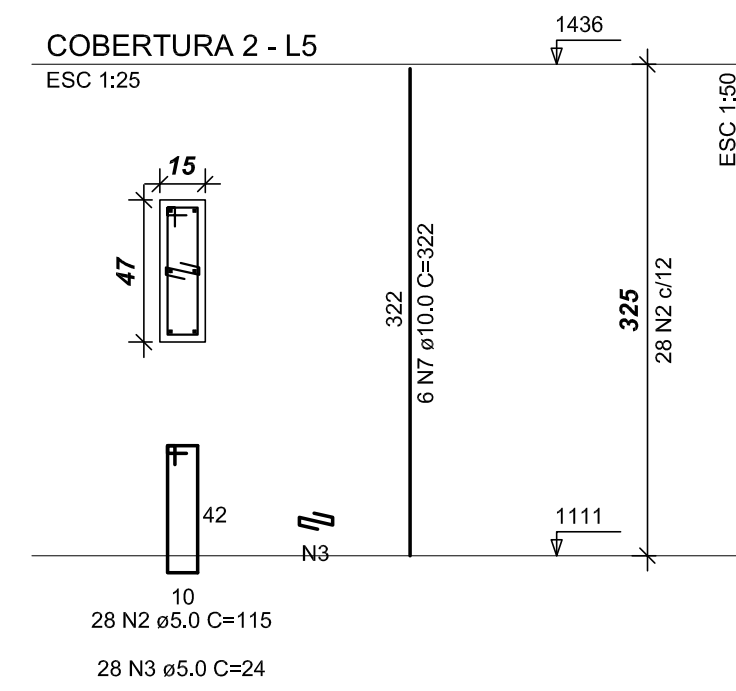
V507 (15 x 30)



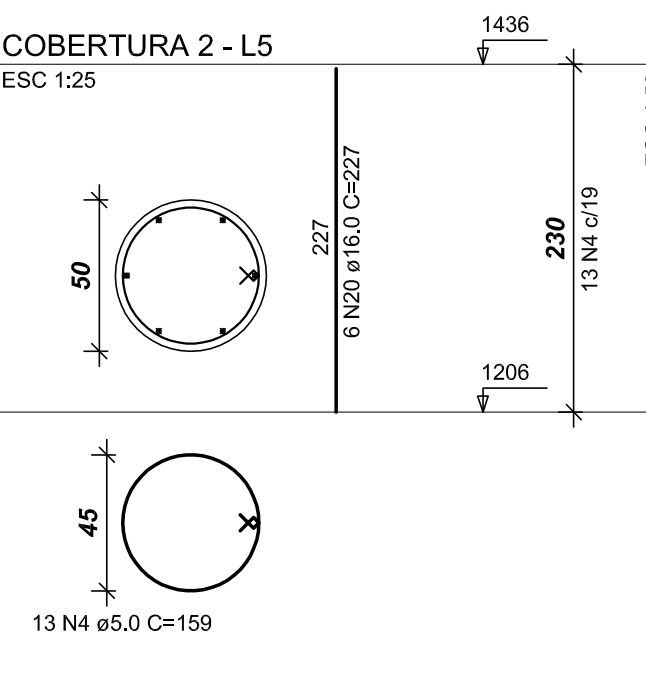
V508 (15 x 30)



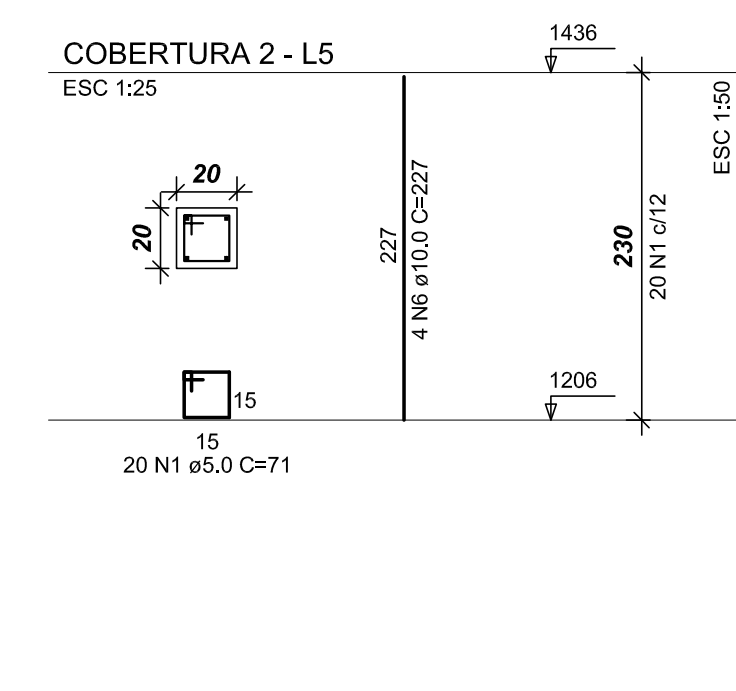
P33=P44=P59=P66



P45=P58



P32=P67



RELAÇÃO DO AÇO PILARES E VIGAS DA COBERTURA 2						
AÇO	N	DIAM	Q	UNIT	C.TOTAL	
				(cm)	(cm)	
60	1	5,0	40	71	2840	
	2	5,0	112	115	12880	
	3	5,0	112	24	2688	
	4	5,0	26	160	4134	
	5	5,0	104	81	8424	
50	6	10,0	8	227	1816	
	7	10,0	24	322	7728	
	8	10,0	4	317	1268	
	9	10,0	4	344	1376	
	10	10,0	4	326	1304	
	11	10,0	353	1412	636	
	12	10,0	2	318	690	
	13	10,0	2	345	690	
	14	10,0	2	328	652	
	15	10,0	2	353	706	
	16	10,0	2	318	636	
	17	10,0	2	345	690	
	18	10,0	2	328	652	
	19	10,0	2	353	706	
	20	10,0	12	227	2724	

AÇO	DIAM	C.TOTAL (m)	PESO+0% (kg)
CA50	10.0	202.8	125.1
	16.0	27.2	43.0
CA60	5.0	310.5	47.8
PESO TOTAL			
CA50	168.1		
CA60	47.8		

DI	17.07.2013	PROJETO ESTRUTURAL
DT	DATA	RESPONSÁVEL
DT	DATA	DESCRIÇÃO DA REVISÃO:
AS BUILT ENGENHARIA DE PROJETOS LTDA		
Rua Jovino do Rosário, 1964 - Boa Vista		
CNPJ 02569435 - Curitiba - Paraná		
asbuiltprojetos@gmail.com - (41) 3088-4949		
FADE:		
PROJETO ESTRUTURAL		
CONFERIR MEDIDAS NA OBRA		
CUBA:		
BIBLIOTECA		
CAMPUS UNAI		
PROPRIETÁRIO:	UNIVERSIDADE FEDERAL DOS VALES DO JECUITINHONHA E MUCURI	CHP: 16.888.315/0001-57
FRANCA:	FERRAGEM DE VIGAS, PILARES E LAJES	
NÍVEL RESERVATÓRIOS E COBERTURA 2		
AUTOR PROJETO:	CARLOS HENRIQUE DE SOUZA GONÇALVES	
CREA 7982/D - Pr		
ESCALA:	INDICADA	DESENHO:
VERSÃO:	1	DATA:
17/07/2013	ÁREA CONTROLADA:	4.127,32 m²
ARQUIVO:	EST	
26/26		