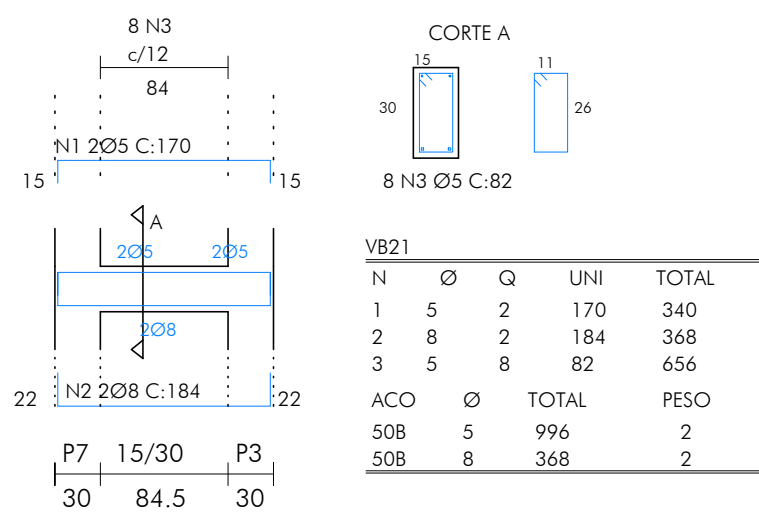


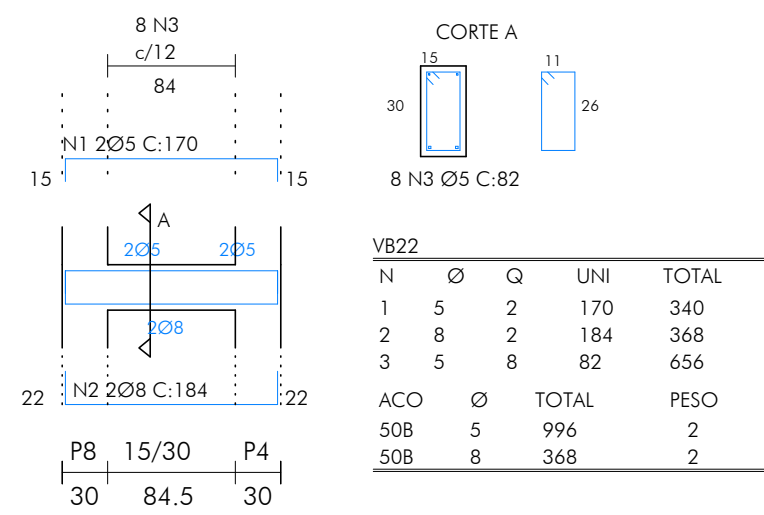
VIGAS BALDRAME

VB21 A VB37
ESCALA 1:50

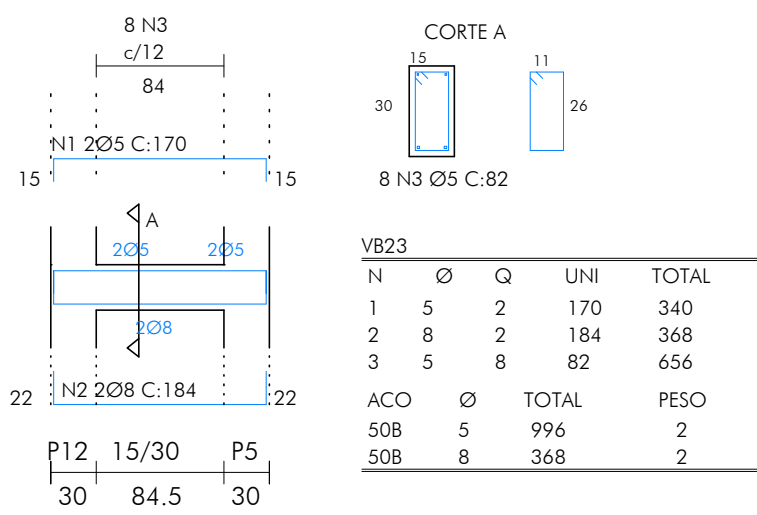
VB21 (20X30)



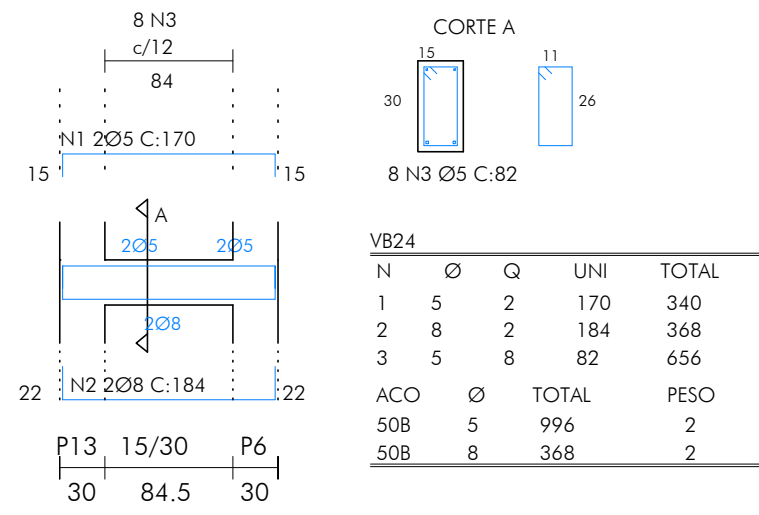
VB22 (15X30)



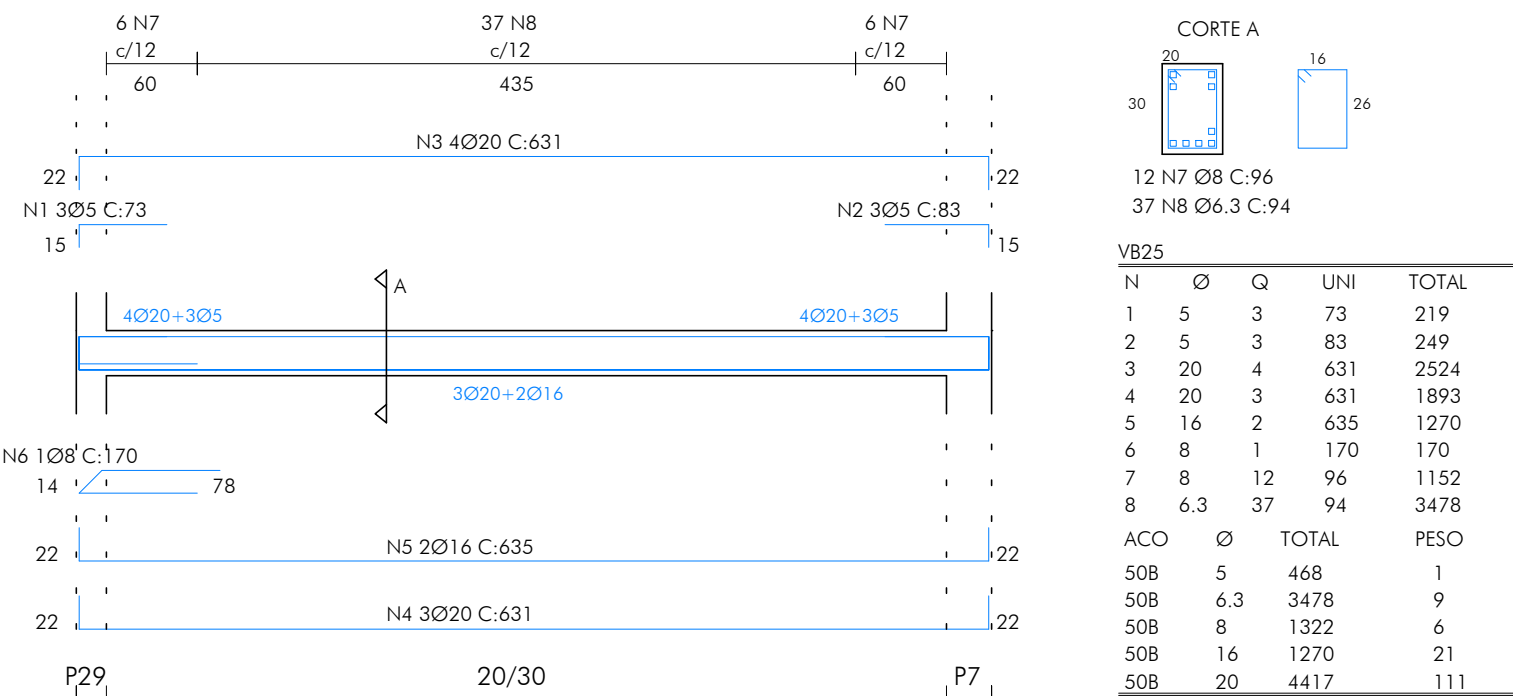
VB23 (15X30)



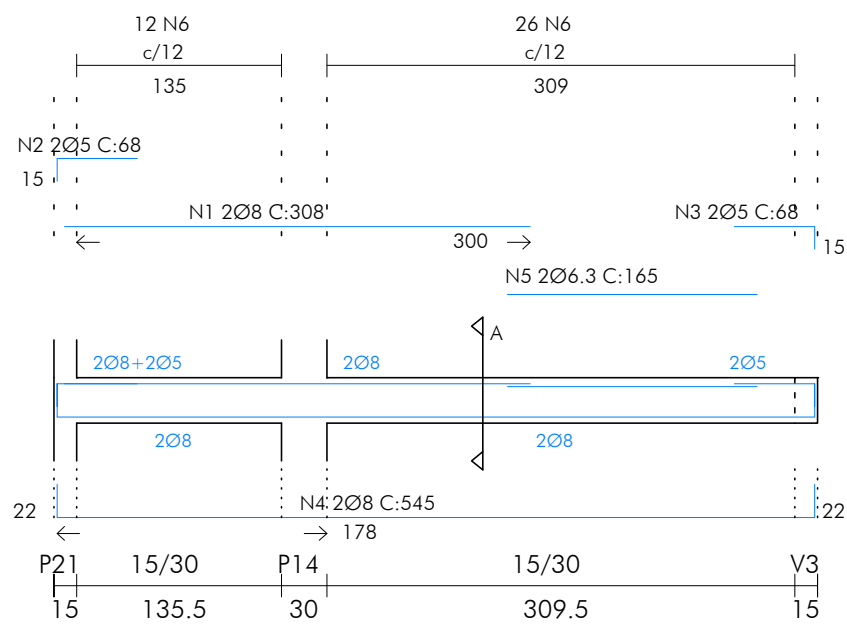
VB24 (15X30)



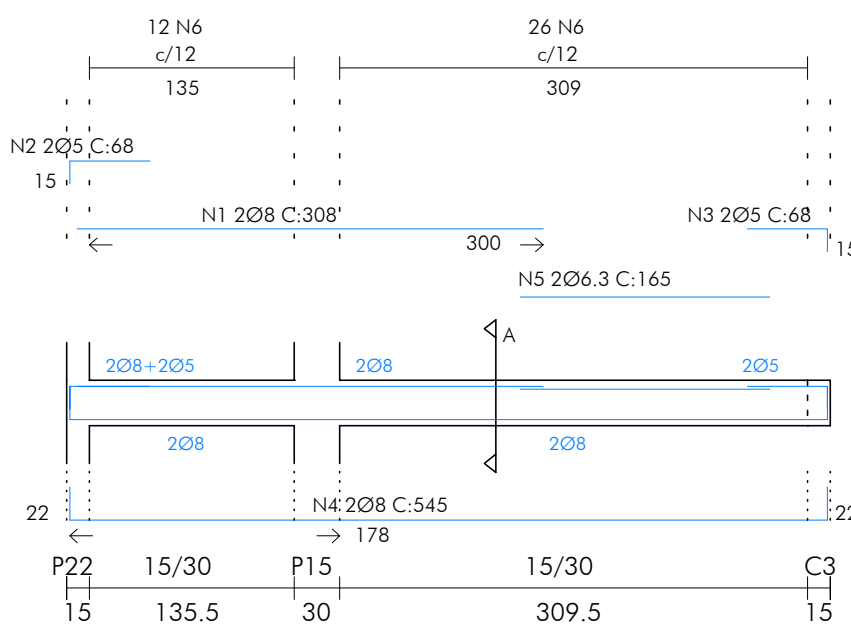
VB25 (20X30)



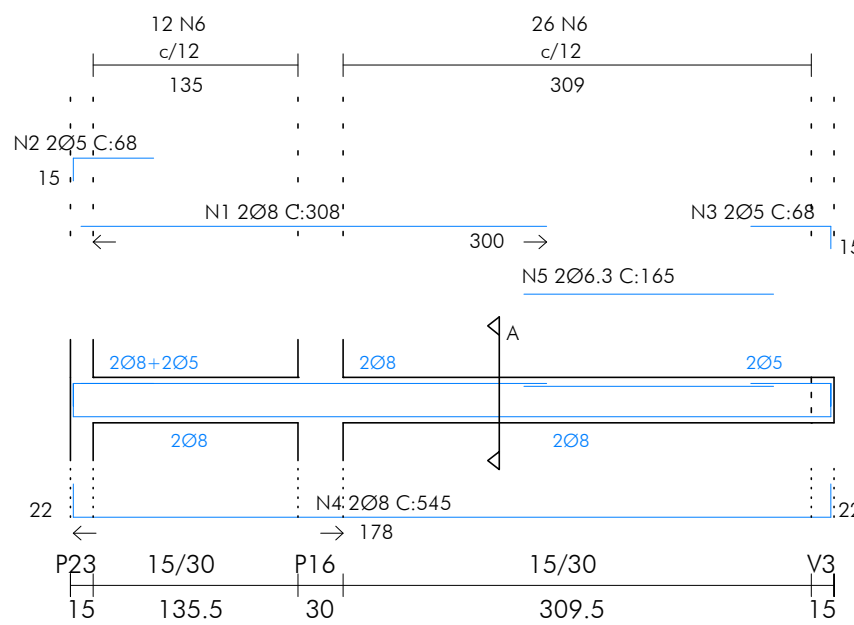
VB26 (15X30)



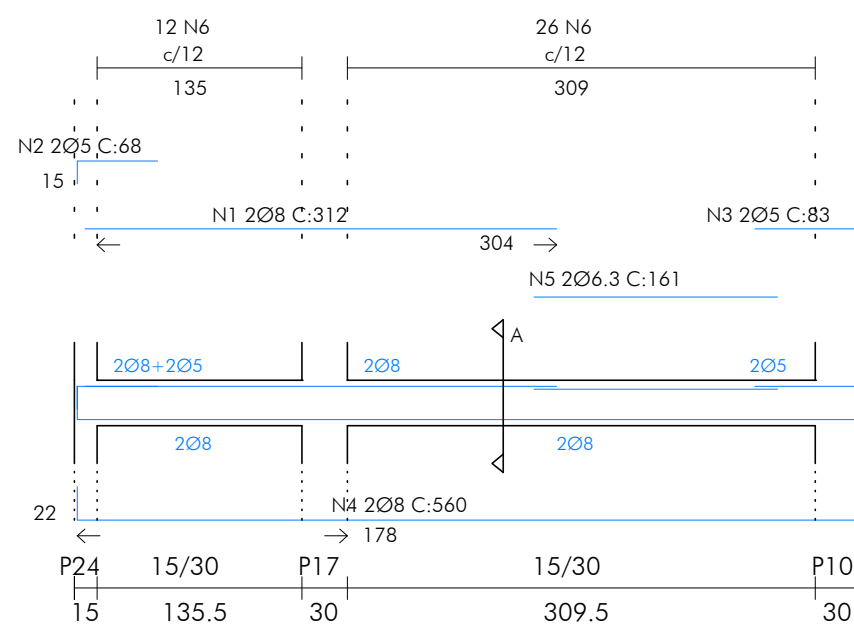
VB27 (15X30)



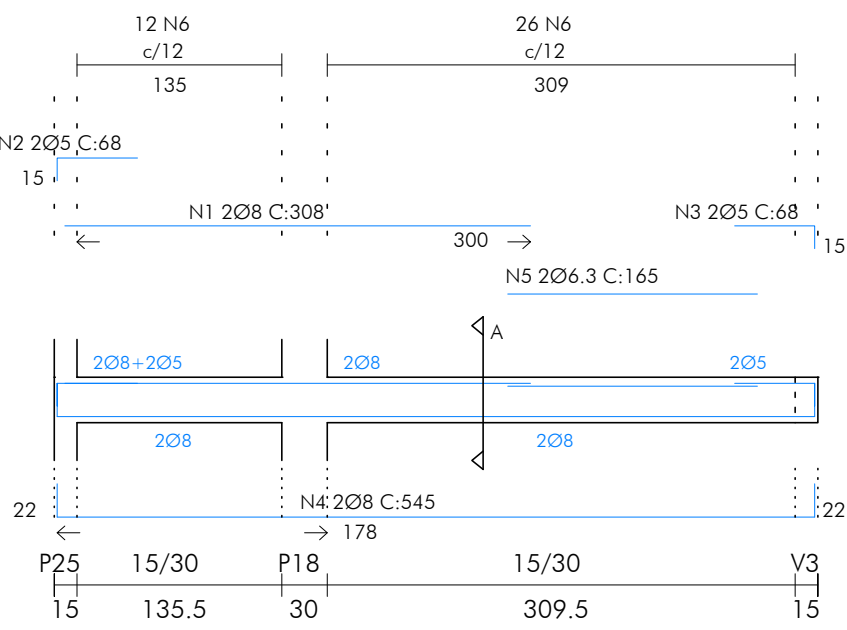
VB28 (15X30)



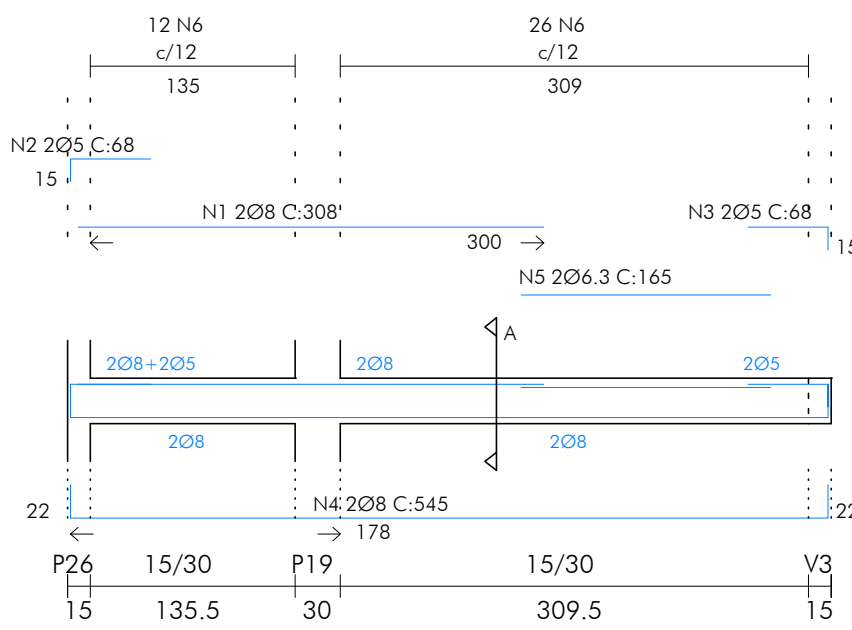
VB29 (15X30)



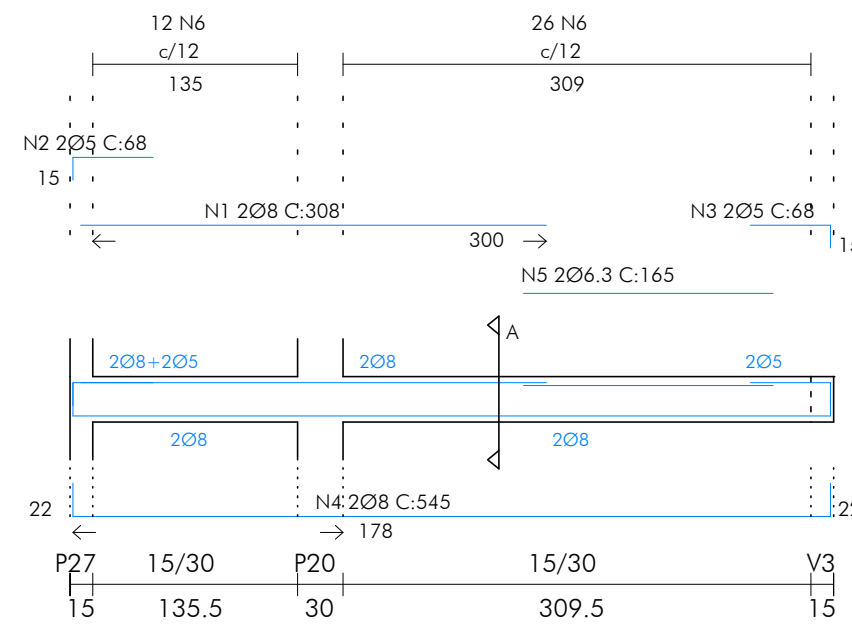
VB30 (15X30)



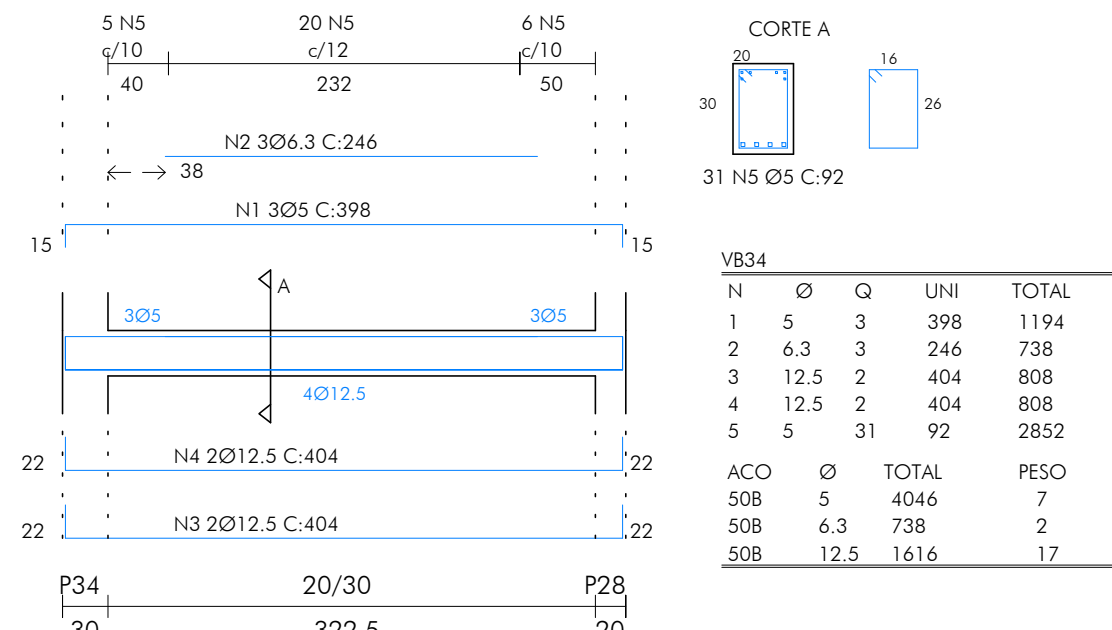
VB31 (15X30)



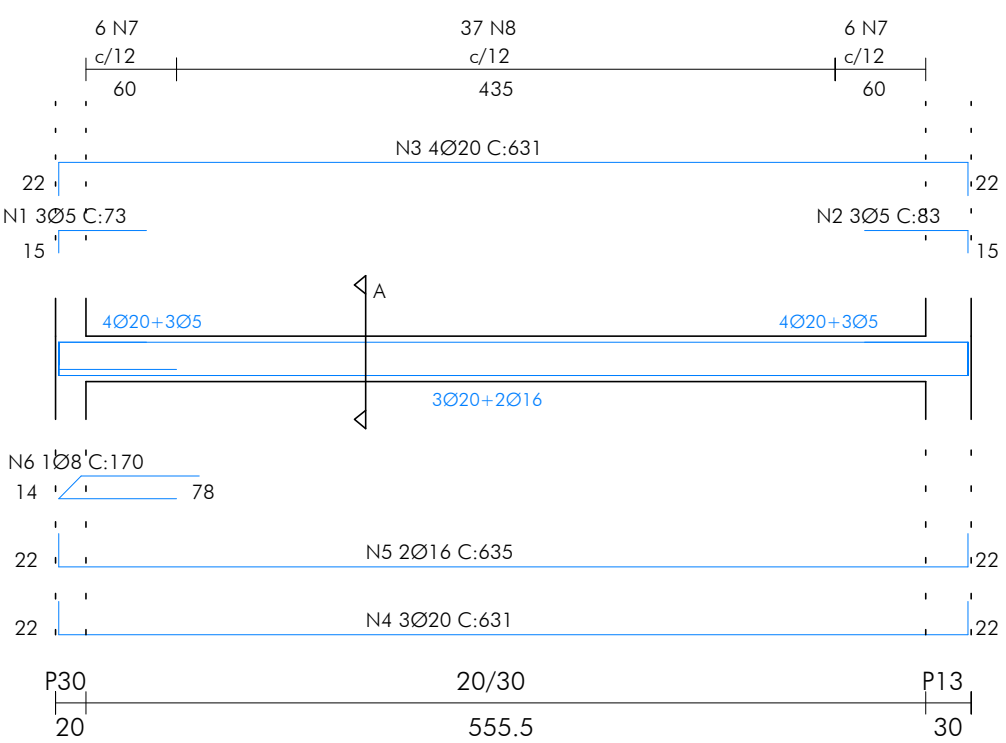
VB32 (15X30)



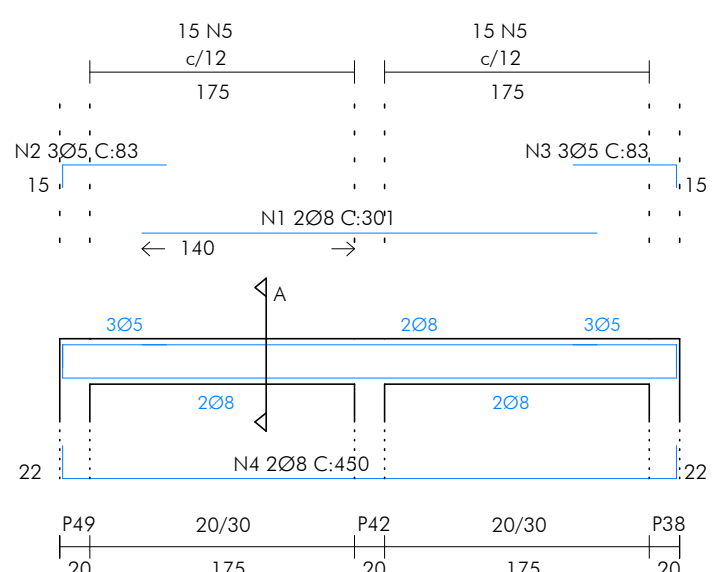
VB34 (20X30)



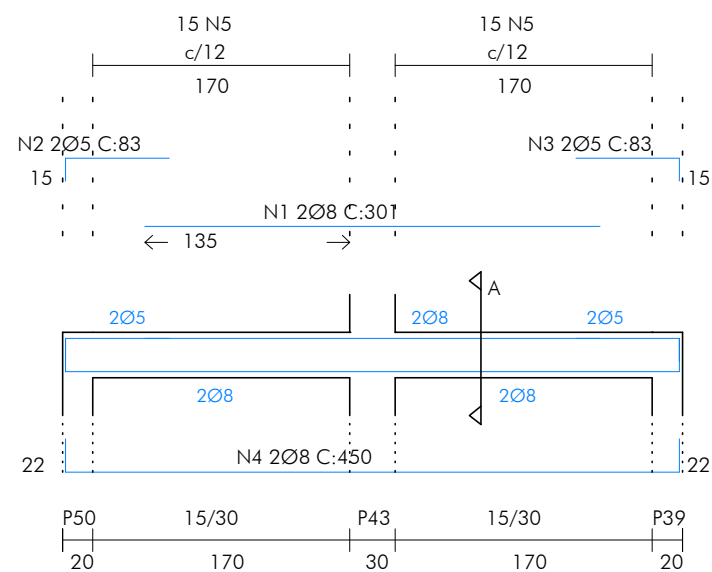
VB33 (20X30)



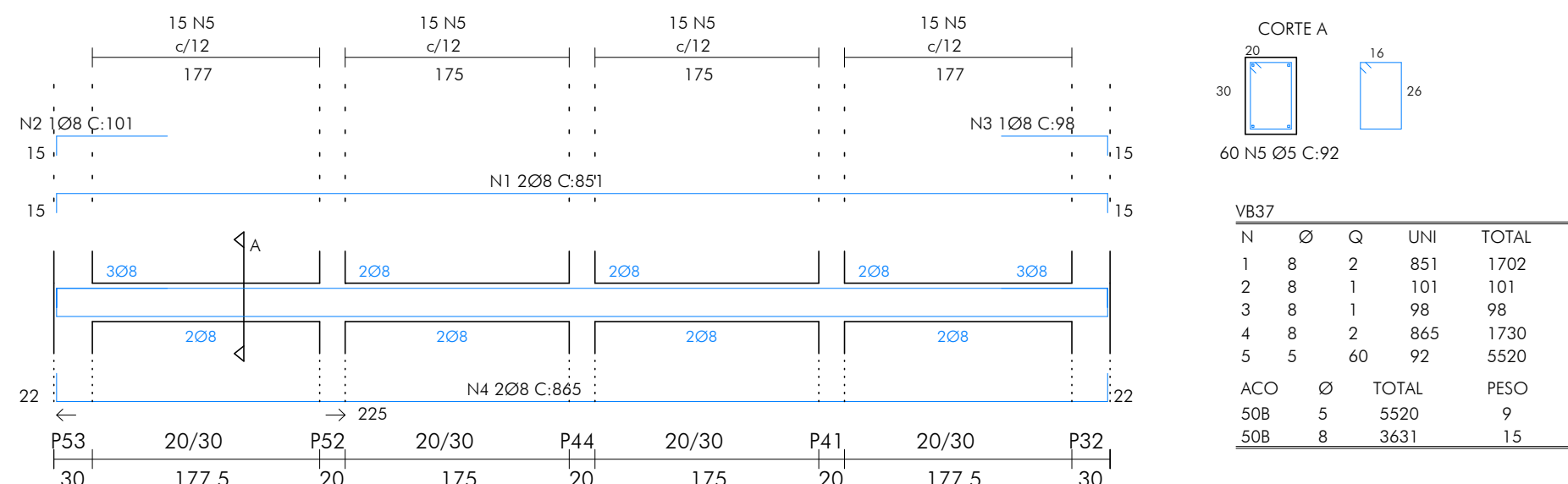
VB35 (20X30)



VB36 (20X30)



VB37 (20X30)



QUADRO REVISÕES:

REVISÃO	REFERÊNCIA	DESCRIÇÃO	DATA	APROVAÇÃO

FERRAGENS:

VIGAS BALDRAME (VB/VA/VB)	
ACO Ø L LAR PESO F=10%	
CA [mm] [m] [kg] [kg]	
508 5.0 477.6 68 74	
508 6.3 100.0 23 28	
508 8.0 227.3 87 96	
508 10.0 --- --- ---	
508 12.5 16.2 16 18	
508 16.0 25.4 40 44	
508 20.0 86.4 197 216	

ANCORAGEM:

RETA E COM GANCHO	
Fck=20,0MPa	
ACO CA50B	
Ø [mm] L [cm] Lg [cm]	
5.0 21.0 9+ (5)	
6.3 28.1 11.5+ (5)	
8.0 35.1 14.5+ (5)	
10.0 42.1 18+ (5)	
12.5 56.1 22.5+ (5)	
16.0 70.1 29+ (5)	
20.0 84.2 49+ (5)	

CONCRETO:

Fck (MPa)	fcd (MPa)	fctd (MPa)
20,0	13,3	2,9
25,0	16,7	3,7
30,0	20,0	4,5
35,0	23,3	5,3
40,0	26,7	6,1
45,0	30,0	6,9
50,0	33,3	7,7
55,0	36,7	8,5
60,0	40,0	9,3
65,0	43,3	10,1
70,0	46,7	10,9
75,0	50,0	11,7
80,0	53,3	12,5
85,0	56,7	13,3
90,0	60,0	14,1
95,0	63,3	14,9
100,0	66,7	15,7

OBSERVAÇÕES:

NOTAS:
1- VIDE DETALHAMENTO DAS ARMADURAS DAS VIGAS BALDRAME NAS FRANCHAS DE NÚMERO: 07, 08, 09, 10, 11 + 12/20;
2- VIDE DETALHAMENTO DAS ARMADURAS DOS FLUMES NAS FRANCHAS DE NÚMERO: 02 E 03/20;

LEGENDA:

VB.X	VB.Y	VB.Z	VB.W	VB.V	VB.U	VB.T	VB.S	VB.R	VB.Q	VB.P	VB.O	VB.N	VB.M	VB.L	VB.K	VB.J	VB.I	VB.H
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