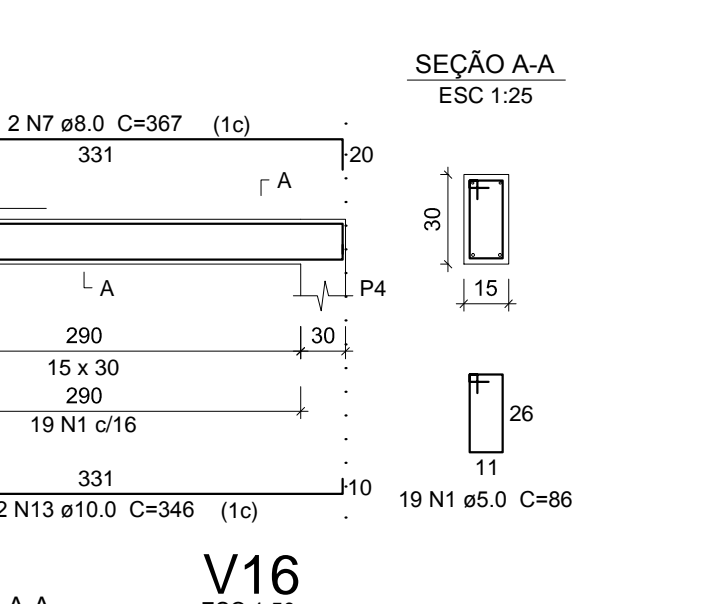
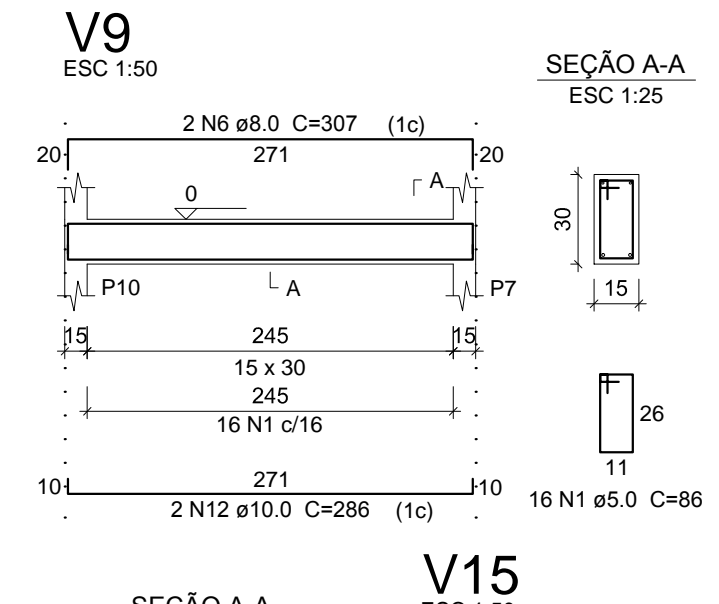
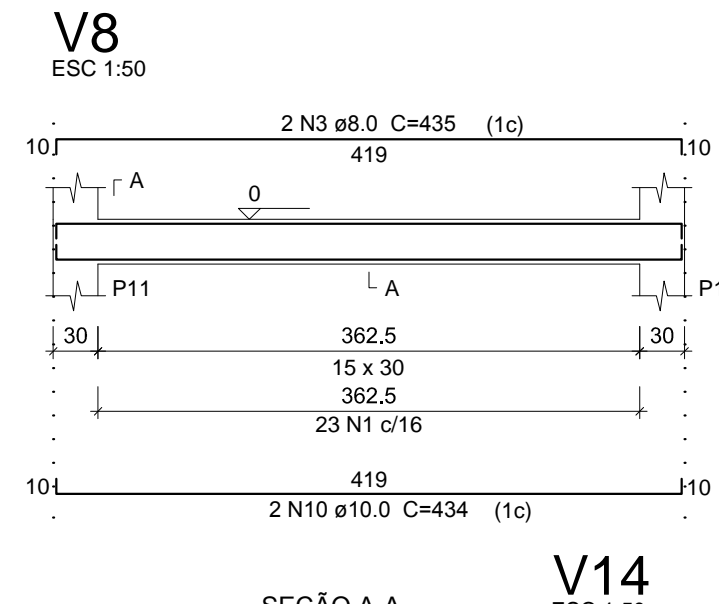
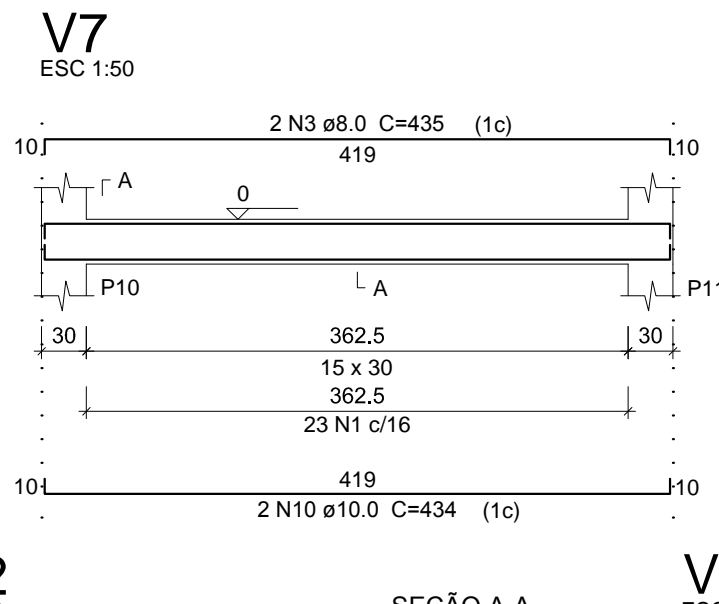
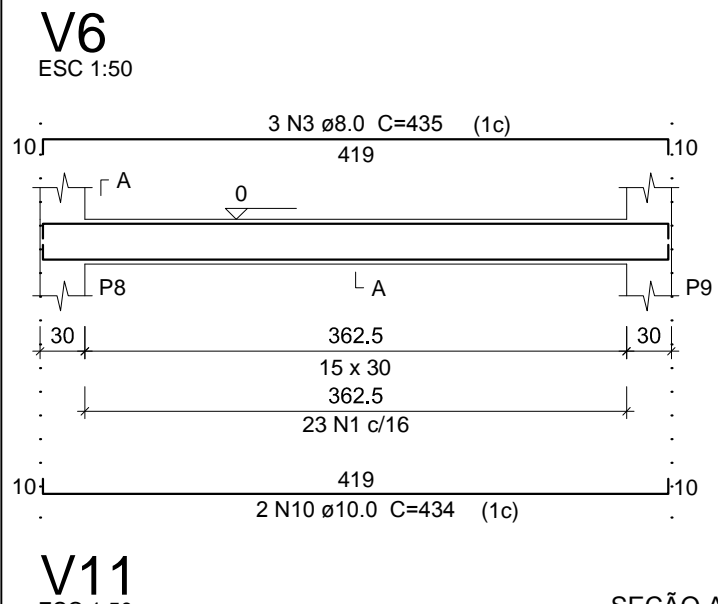


Relação do aço

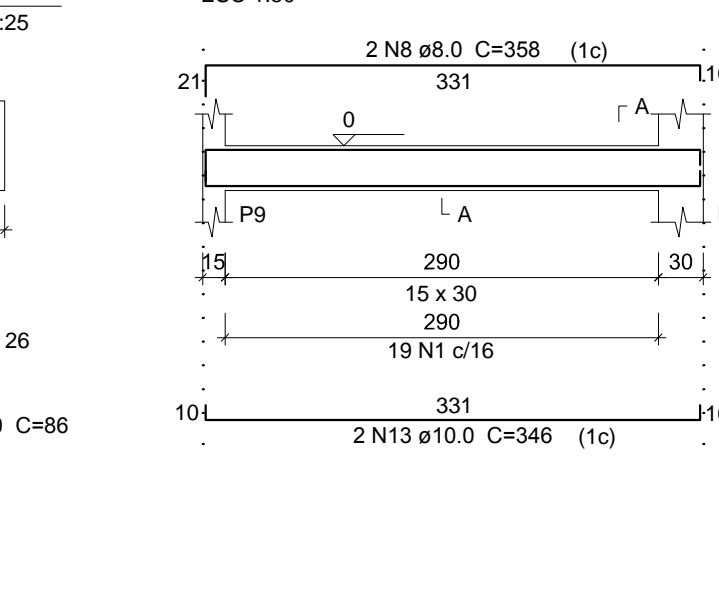
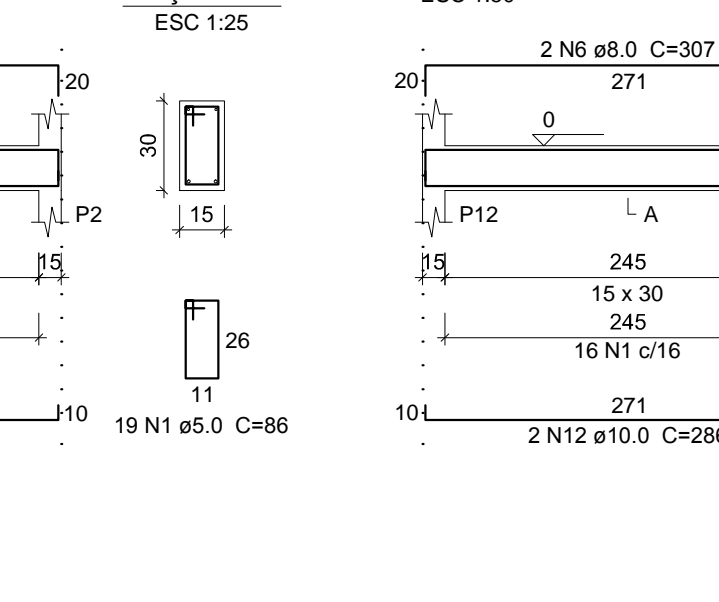
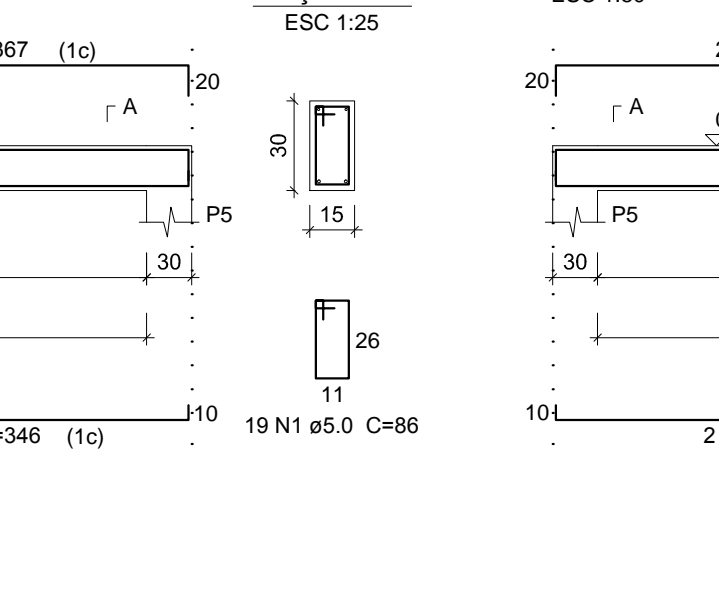
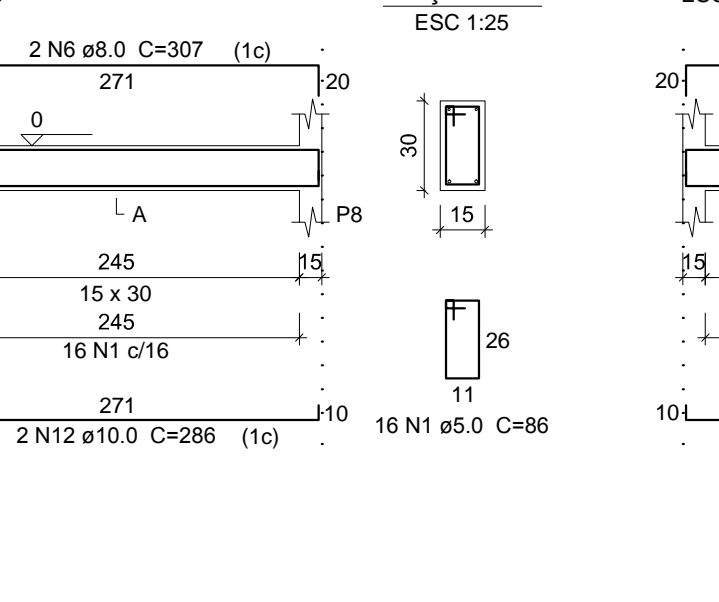
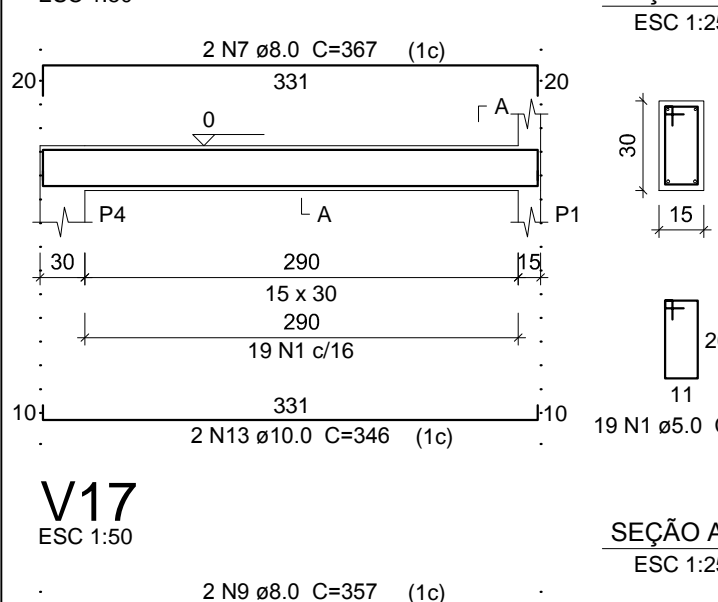
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V1					
V4					
V5					
V7					
V10					
V13					
V16					
CA60	1	5.0	350	86	30100
CA50	2	8.0	2	86	172
	3	8.0	13	435	5655
	4	8.0	4	447	1788
	5	8.0	1	111	111
	6	8.0	6	307	1842
	7	8.0	8	367	2936
	8	8.0	2	358	716
	9	8.0	2	357	714
	10	10.0	12	434	5208
	11	10.0	4	426	1704
	12	10.0	6	286	1716
	13	10.0	12	346	4152



Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	139.4	60.5
CA60	10.0	127.8	86.7
CA60	5.0	301	51
PESO TOTAL (kg)			198.9
CA50		147.2	
CA60		51	

Volume de concreto (C-25) = 2.79 m³
Área de forma = 46.5 m²



Relação do aço

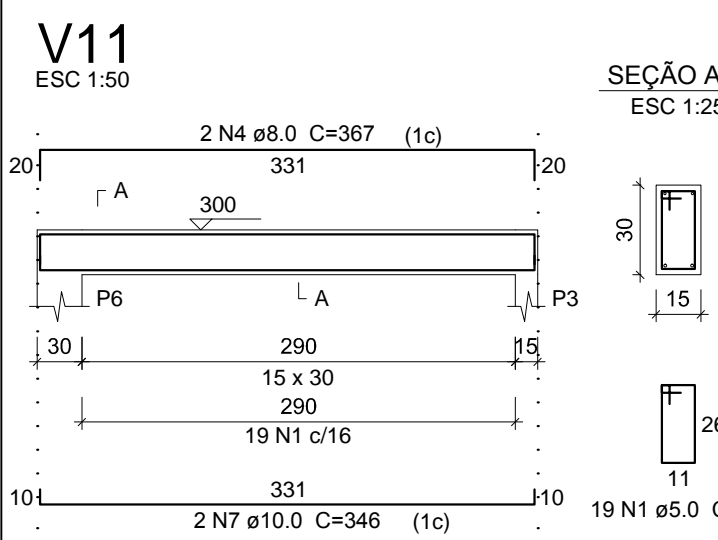
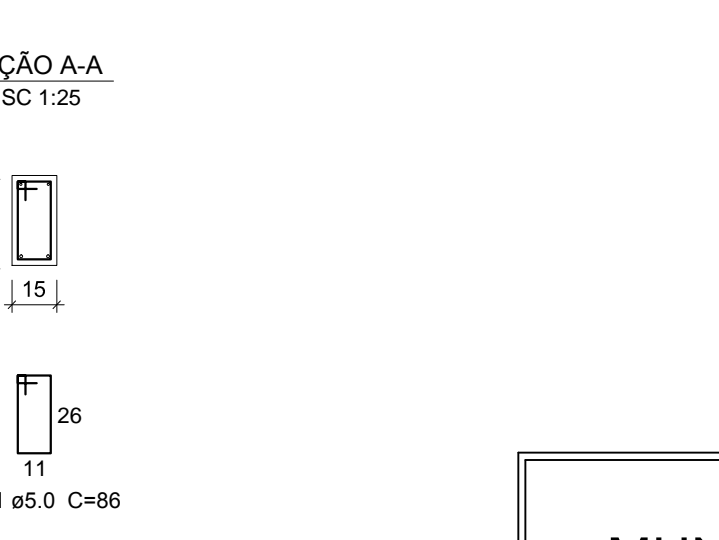
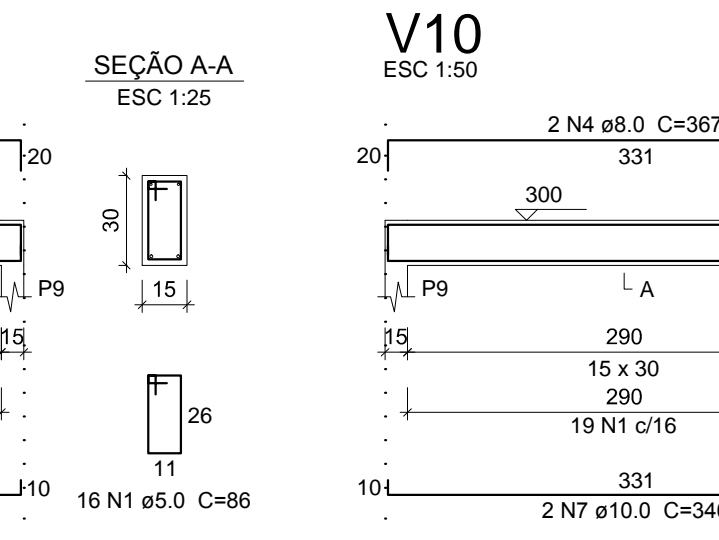
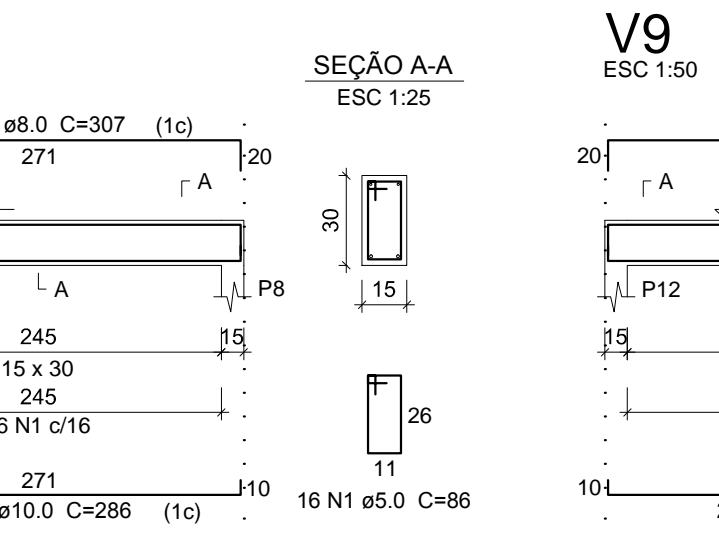
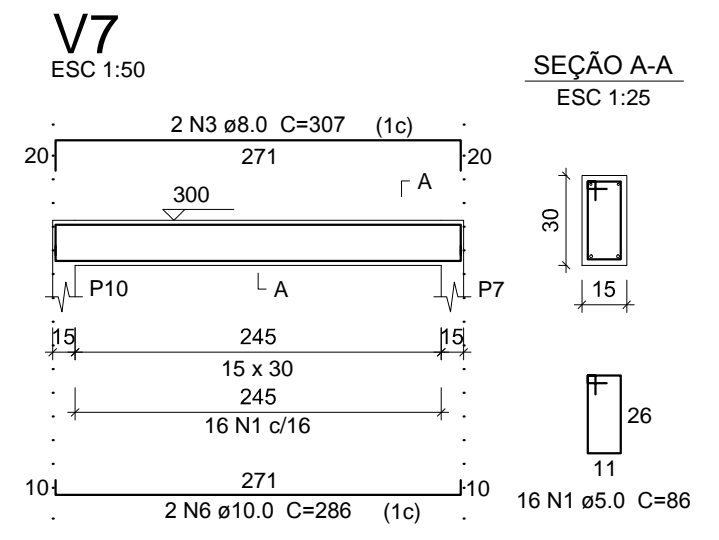
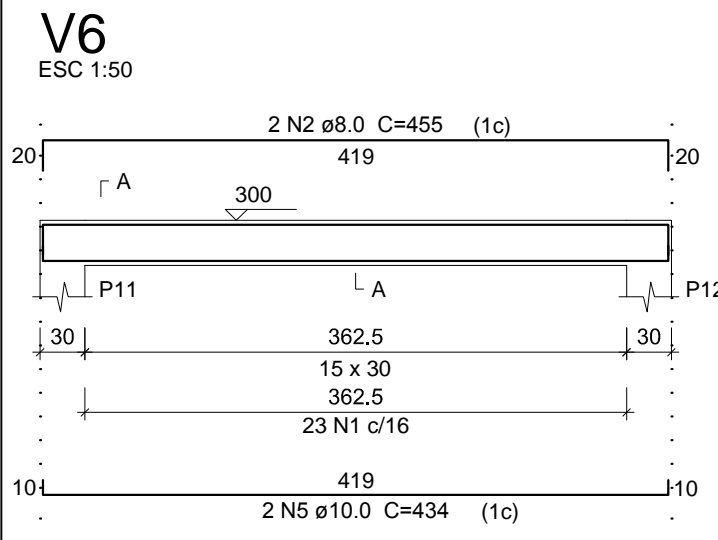
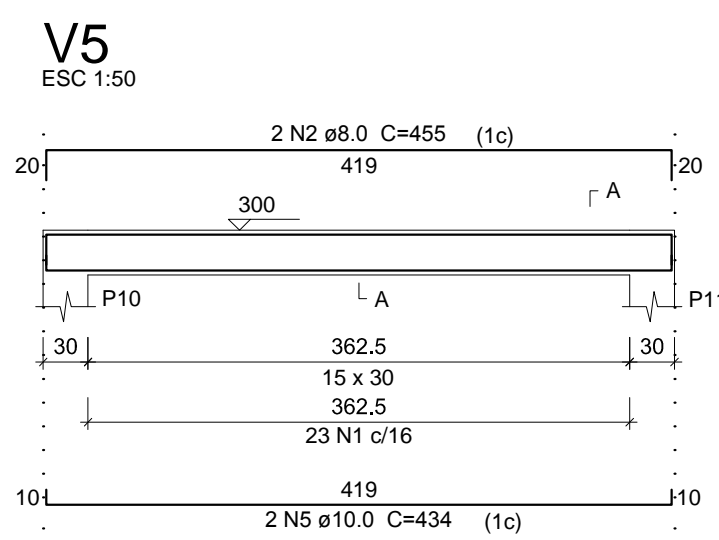
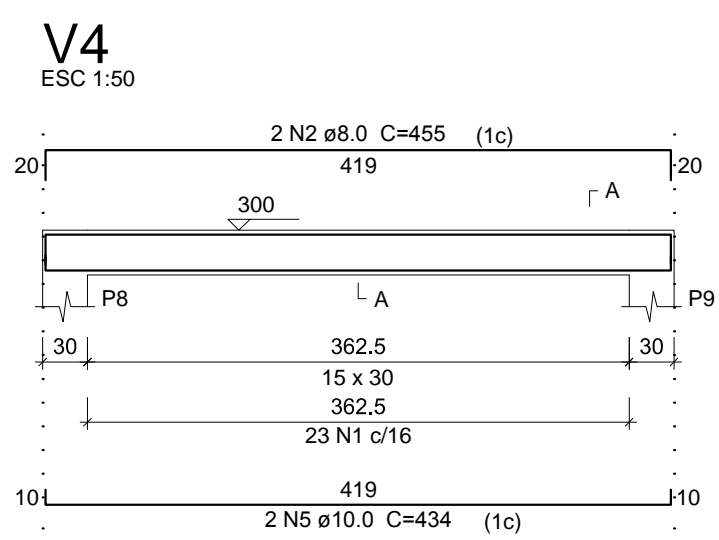
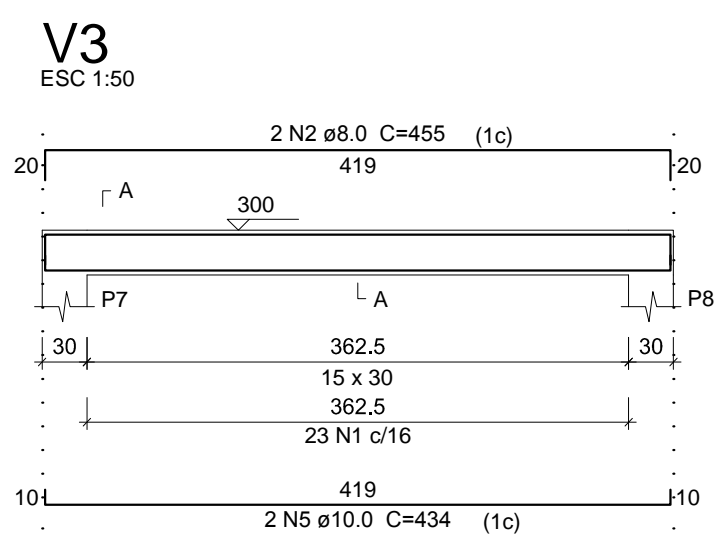
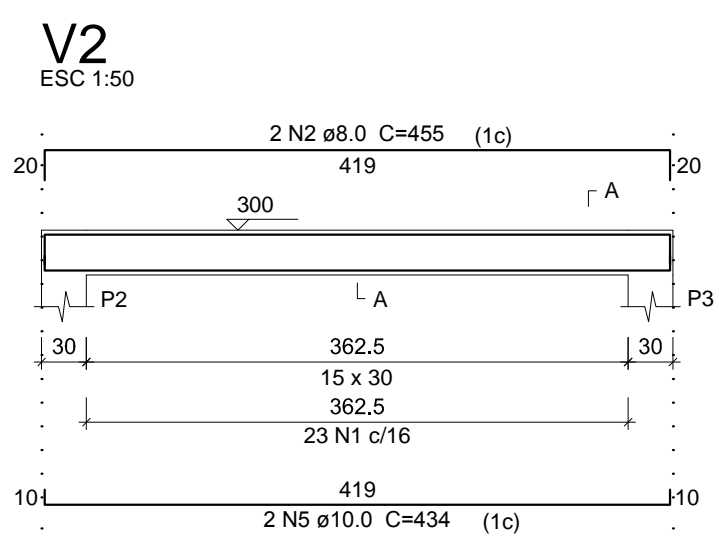
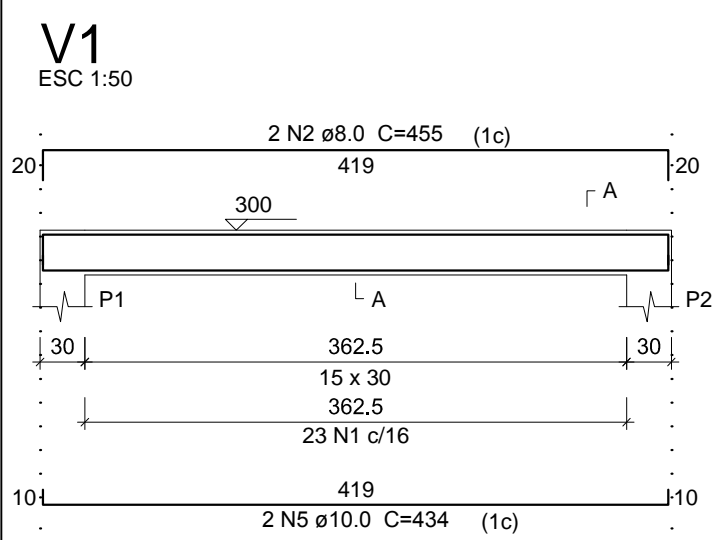
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V1					
V4					
V5					
V7					
V10					
CA60	1	5.0	224	86	19264
CA50	2	8.0	12	455	5460
	3	8.0	6	307	1842
	4	8.0	4	367	1468
	5	10.0	12	434	5208
	6	10.0	6	286	1716
	7	10.0	4	346	1384

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	87.7	38.1
CA60	10.0	83.1	56.3
CA60	5.0	192.7	32.7
PESO TOTAL (kg)			127.1
CA50		94.4	
CA60		32.7	

Volume de concreto (C-25) = 1.81 m³
Área de forma = 30.23 m²

Vigas Baldrame
escala 1:50



Vigas Respaldo
escala 1:50

MUNICÍPIO DE CAMPO BELO DO SUL

REFORMA E AMPLIAÇÃO - ESCOLA BÁSICA MUNICIPAL LAGO AZUL - Projeto Estrutural
Rua Florianópolis, s/n°, Bairro Lago Azul, Campo Belo do Sul - SC

PRANCHIA: **02/02**

DATA: 05/12/2017
DESENHO: SARAH
ESCALAS: 1:75
ÁREA: 73,35 m²

RESPONSÁVEL TÉCNICO: SARAH DUTRA
Engenheira Civil
CREA - SC 123628-3

PROPRIETÁRIO: MUNICÍPIO DE CAMPO BELO DO SUL
CNPJ: 82.777.319/0001-92