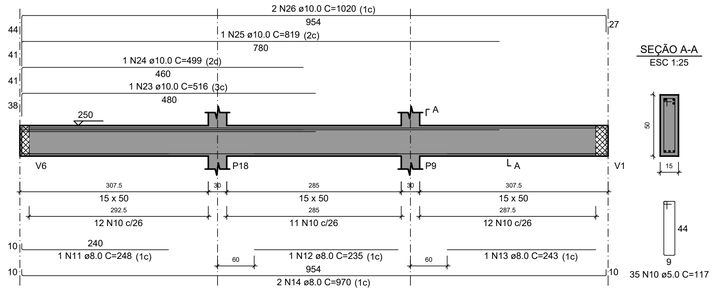
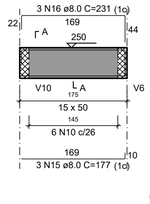
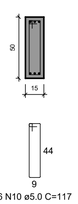
V18
ESC 1:50



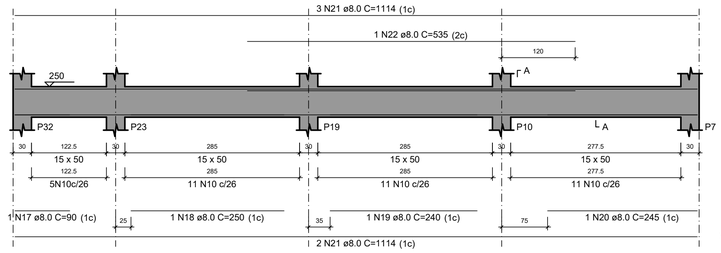
V19
ESC 1:50



SEÇÃO A-A
ESC 1:25



V20
ESC 1:50



SEÇÃO A-A
ESC 1:25

RELAÇÃO DO AÇO

Negativos X V19 — Negativos Y V18 — V20

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	2	102	204
	2	5.0	2	90	180
	3	5.0	2	142	284
	4	5.0	5	114	570
	5	5.0	2	157	314
	6	5.0	3	93	279
	7	5.0	10	45	450
	8	5.0	3	89	267
	9	5.0	6	49	294
	10	5.0	79	117	9243
CA50	11	8.0	1	248	248
	12	8.0	1	235	235
	13	8.0	1	243	243
	14	8.0	2	970	1940
	15	8.0	3	177	531
	16	8.0	3	231	693
	17	8.0	1	90	90
	18	8.0	1	250	250
	19	8.0	1	240	240
	20	8.0	1	245	245
	21	8.0	5	1114	5570
	22	8.0	1	535	535
	23	10.0	1	516	516
	24	10.0	1	499	499
	25	10.0	1	819	819
	26	10.0	2	1020	2040

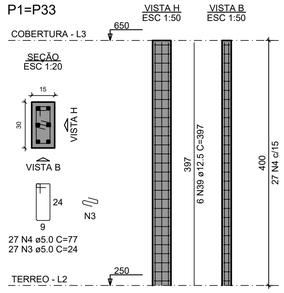
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	108.2	47
	10.0	38.7	26.3
CA60	5.0	120.9	20.5

PESO TOTAL (kg)	
CA50	73.2
CA60	20.5

Volume de concreto (C-25) = 1.69 m³
Área de forma = 25.93 m²

P1=P33



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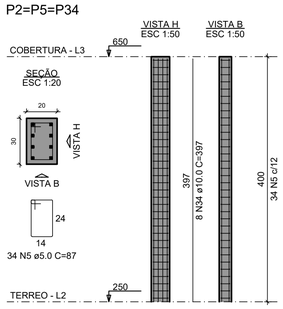
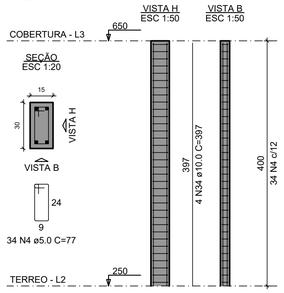
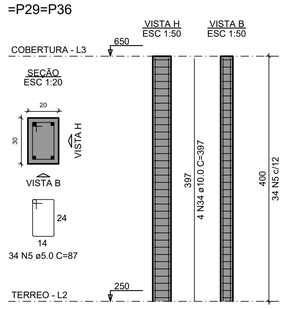


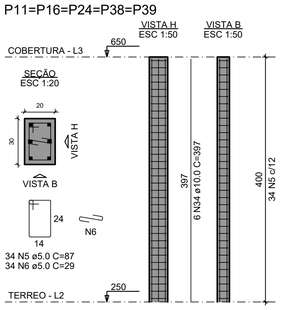
P3=P4=P6=P7=P9=P10= =P18=P19=P20=P21=P27= =P28=P35=P37



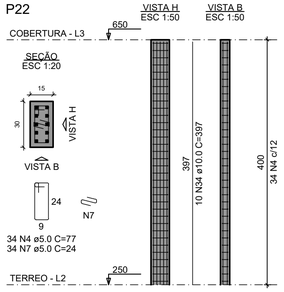
P8=P13=P14=P17=P26= =P29=P36



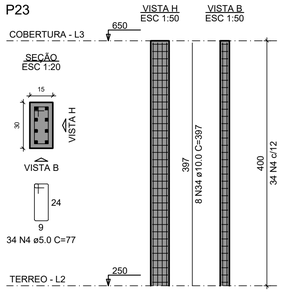
P11=P16=P24=P38=P39



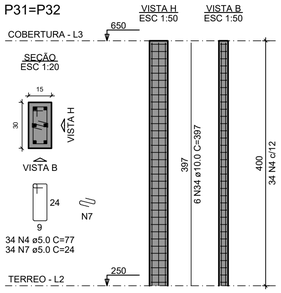
P22



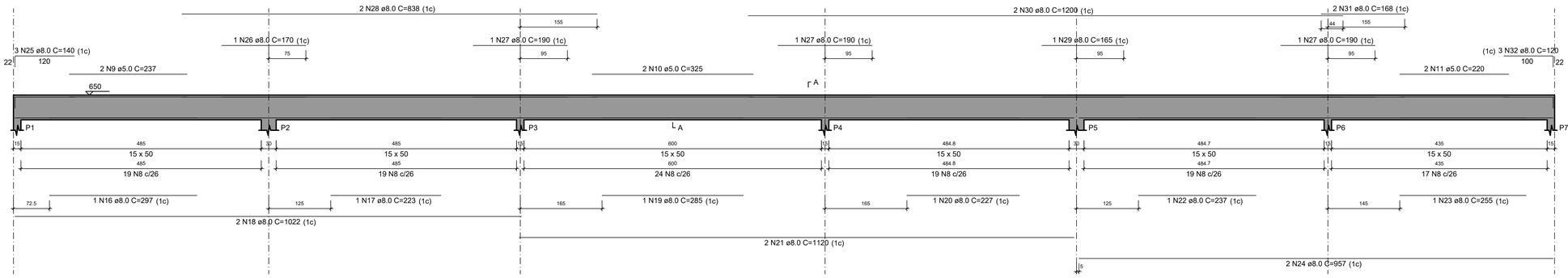
P23



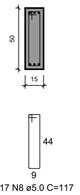
P31=P32



V1
ESC 1:50



SEÇÃO A-A
ESC 1:25



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Estrutural - Vigas e Pilares

CONSTRUÇÃO - COMERCIAL

09/11

VERSÃO: 01