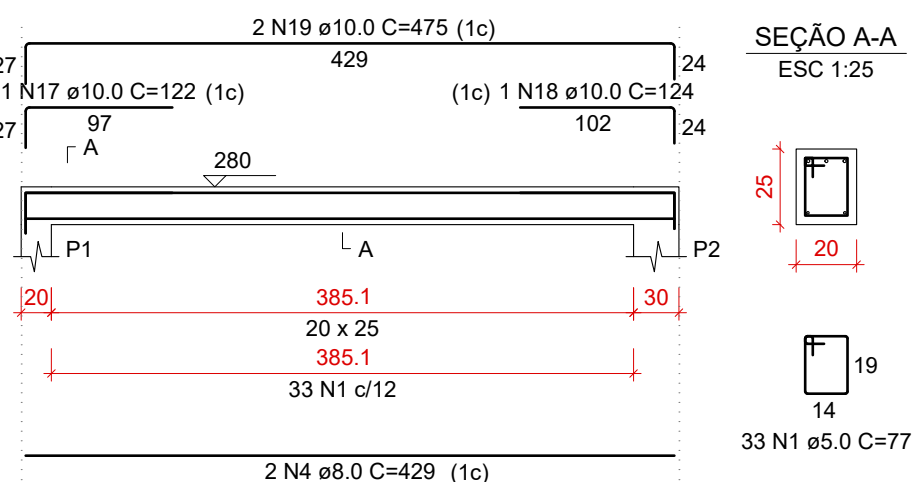
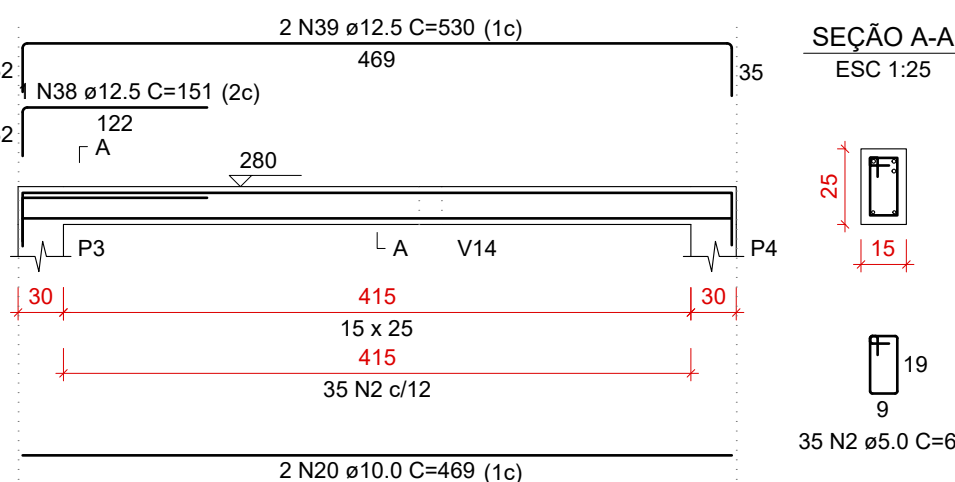


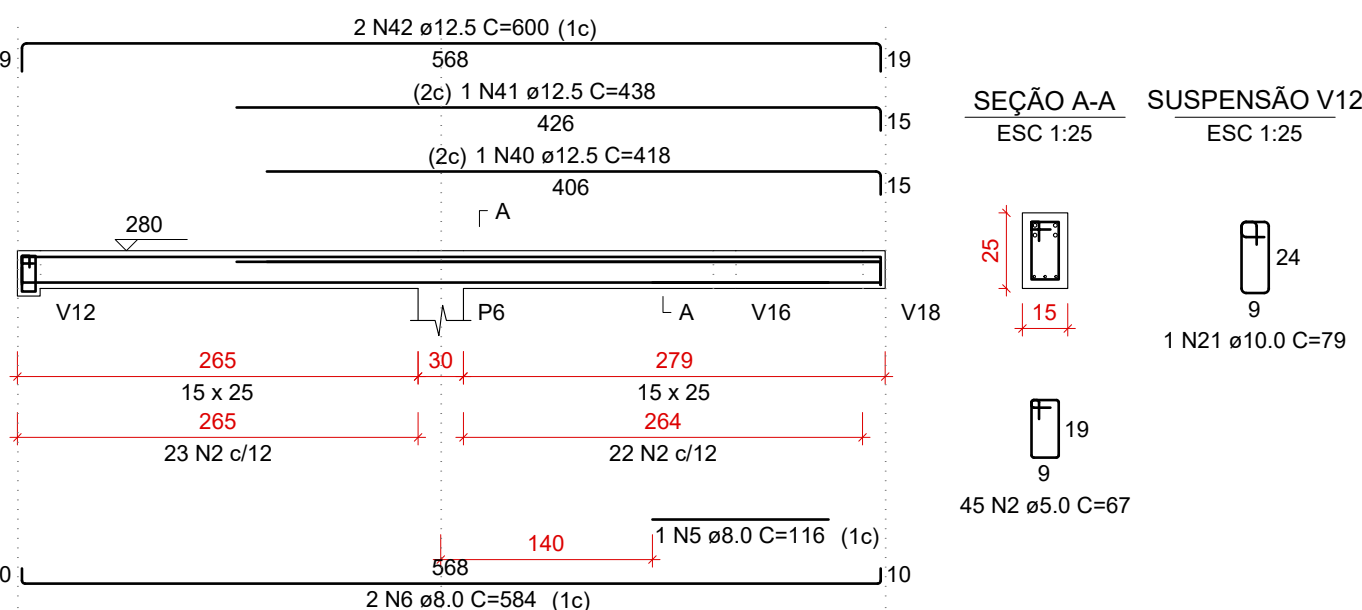
V1  
ESC 1:50



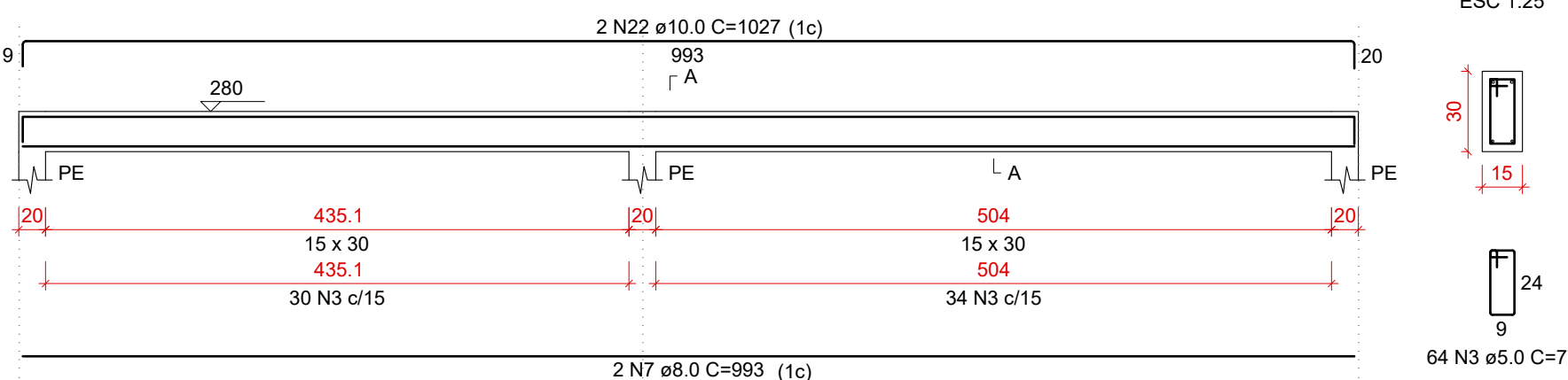
V2  
ESC 1:50



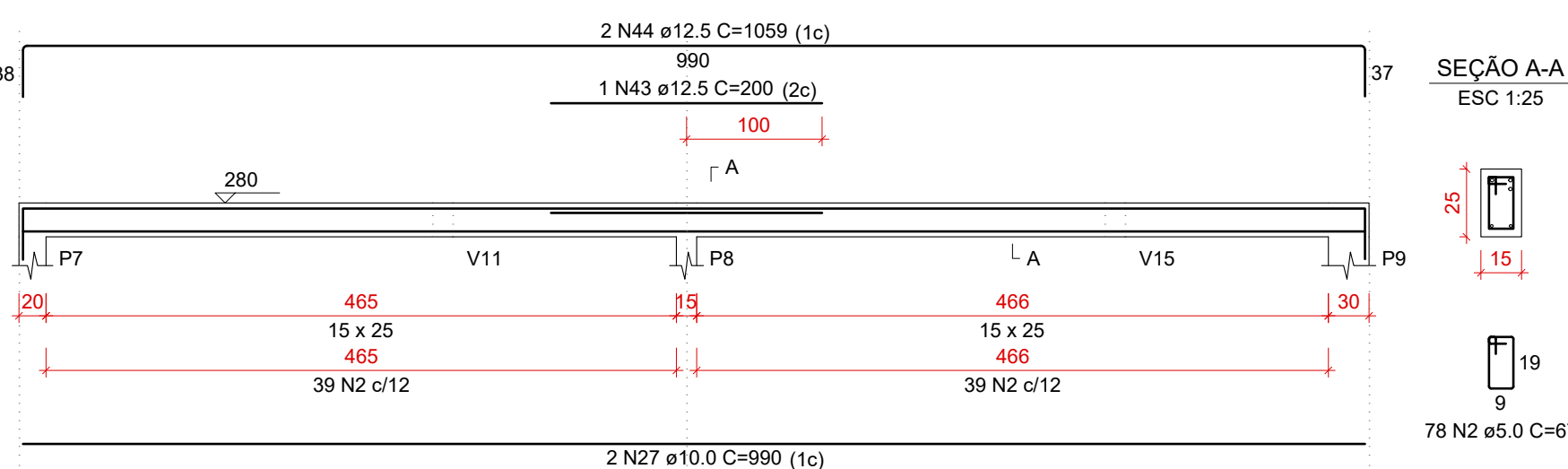
V3  
ESC 1:50



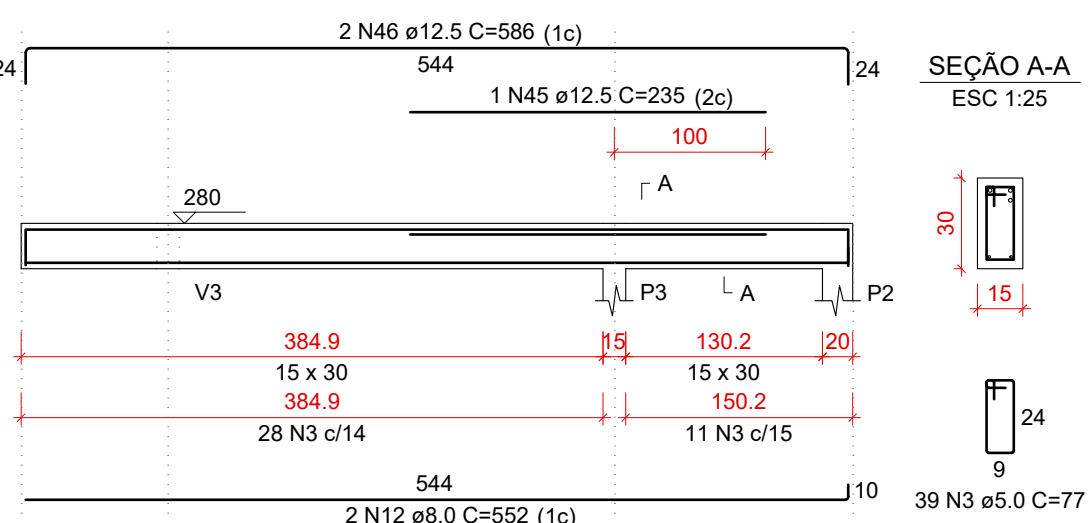
V4  
ESC 1:50



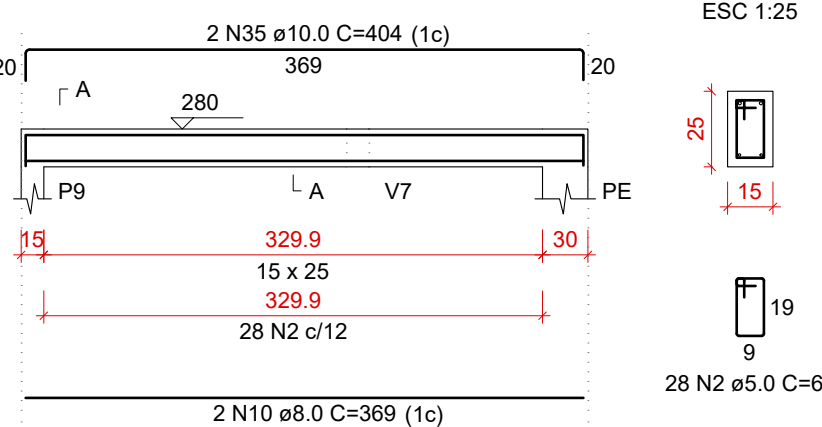
V8  
ESC 1:50



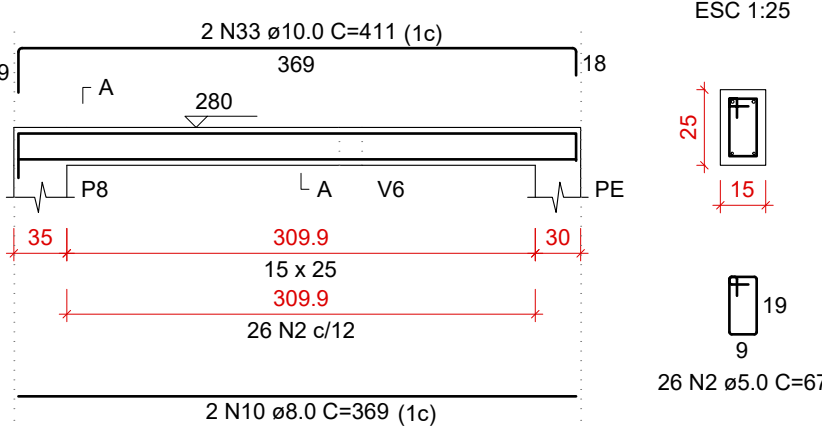
V12  
ESC 1:50



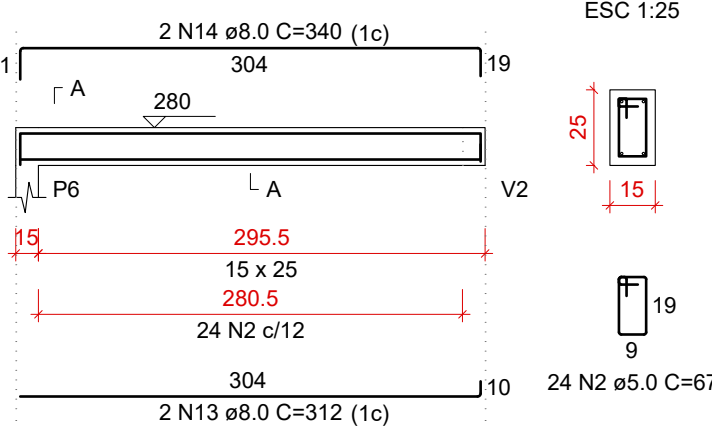
V17  
ESC 1:50



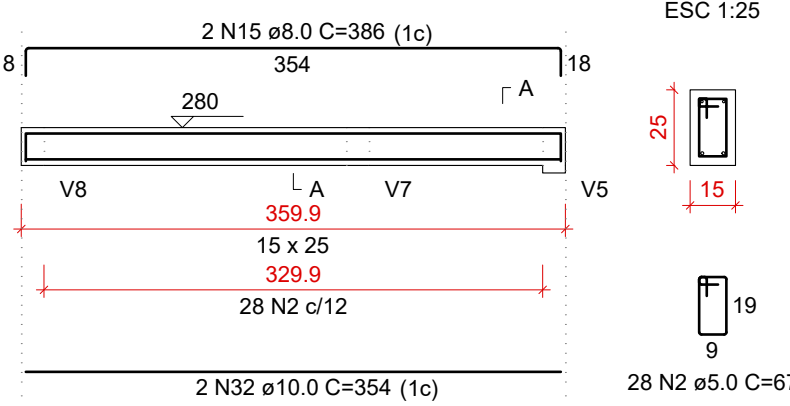
V13  
ESC 1:50



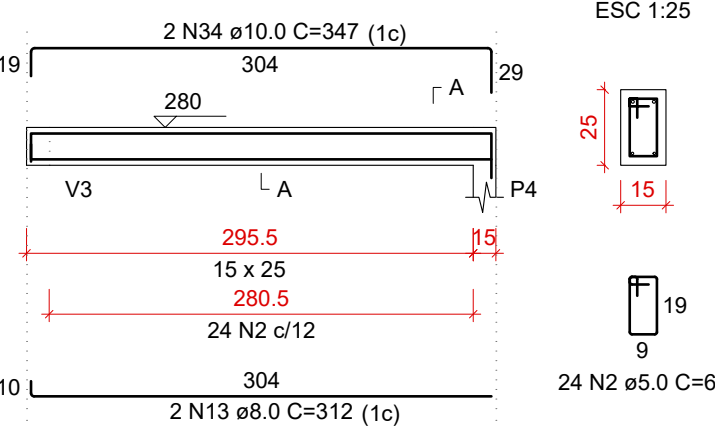
V14  
ESC 1:50



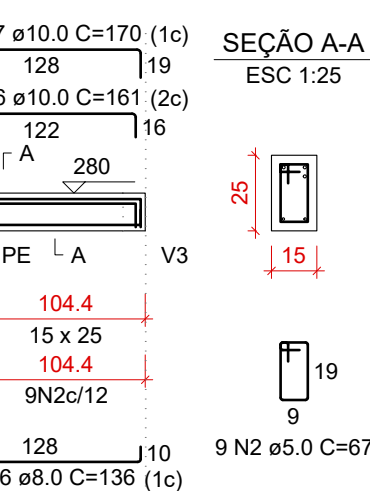
V15  
ESC 1:50



V16  
ESC 1:50



V18  
ESC 1:50



RELAÇÃO DO AÇO - Vigas

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V1	1	5.0	103	77	7931
V4	29	5.0	353	67	23651
V7	3	5.0	166	77	12782
V10	4	8.0	2	429	858
V13	5	8.0	1	116	116
V16	6	8.0	2	584	1168
	7	8.0	2	993	1986
	8	8.0	4	197	788
	9	8.0	4	219	876
	10	8.0	6	369	2214
	11	8.0	2	384	768
	12	8.0	2	552	1104
	13	8.0	4	312	1248
	14	8.0	2	340	680
	15	8.0	2	386	772
	16	8.0	2	136	272
	17	10.0	1	122	122
	18	10.0	1	124	124
	19	10.0	2	475	950
	20	10.0	2	469	938
	21	10.0	1	79	79
	22	10.0	2	1027	2054
	23	10.0	2	995	1990
	24	10.0	1	119	119
	25	10.0	1	190	190
	26	10.0	2	1045	2090
	27	10.0	2	990	1980
	28	10.0	2	397	794
	29	10.0	2	574	1148
	30	10.0	1	140	140
	31	10.0	2	618	1236
	32	10.0	4	354	1416
	33	10.0	2	411	822
	34	10.0	2	347	694
	35	10.0	2	404	808
	36	10.0	1	161	161
	37	10.0	2	170	340
	38	12.5	1	151	151
	39	12.5	2	530	1060
	40	12.5	1	418	418
	41	12.5	1	438	438
	42	12.5	2	600	1200
	43	12.5	1	200	200
	44	12.5	2	1059	2118
	45	12.5	1	235	235
	46	12.5	2	586	1172

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	128.5	55.8
CA60	10.0	182	123.4
CA60	12.5	69.9	74.1
CA60	5.0	443.6	75.2
PESO TOTAL (kg)			
CA50		253.3	
CA60		75.2	

Volume de concreto (C-30) = 3.25 m³  
Área de forma = 53.90 m²

## PROJETO ESTRUTURAL



Obra:	AMPLIAÇÃO - CENTRO DE MULTIPLO USO BAIRRO CRISTO REI Rua Angelo Fassina, L06 Q114, Bairro Cristo Rei, s/nº - Ipuçu/SC	Data:	08/2023
Resp. Técnico:	Tânia Mara Baldissera - Engenheira Civil - CREA-SC 133.907-5	Escala:	Indicada
Município:	Ipuçu/SC - CNPJ: 95.993.028/0001-83	Área:	77,70 m²
Especificação:	Vigas cobertura	Desenho:	Tânia
		Prancha:	EST 06/06