

RELAÇÃO DO AÇO

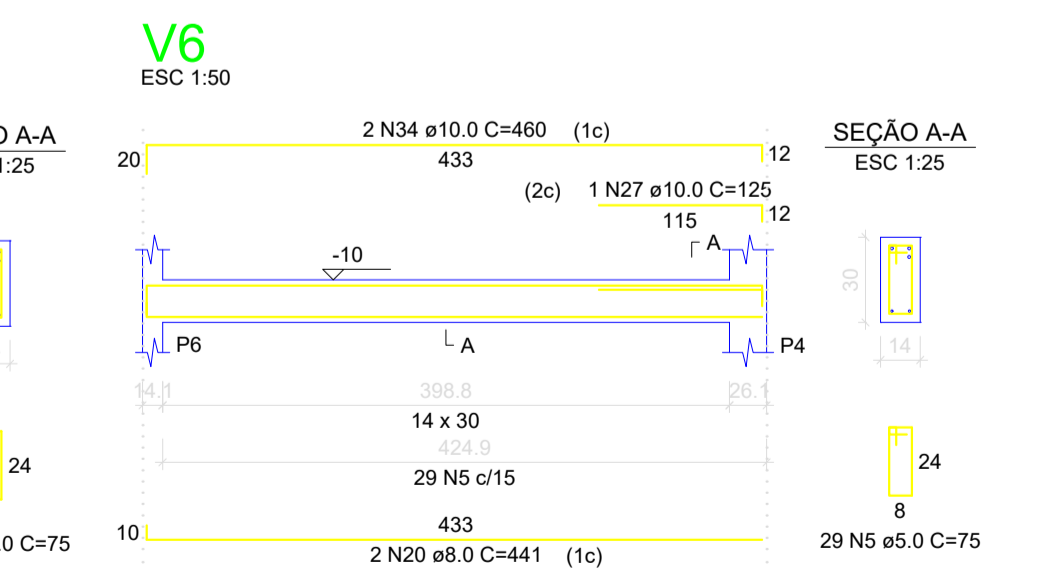
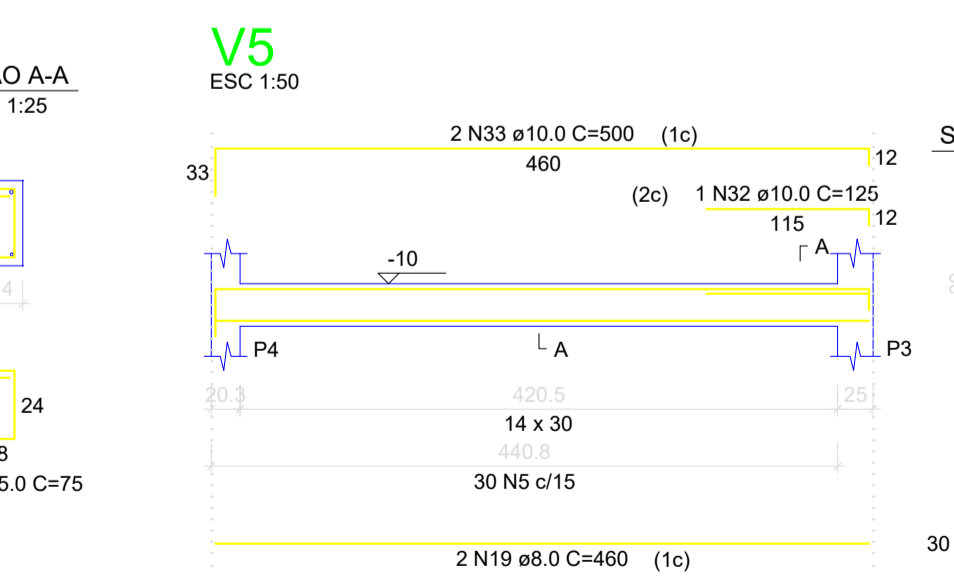
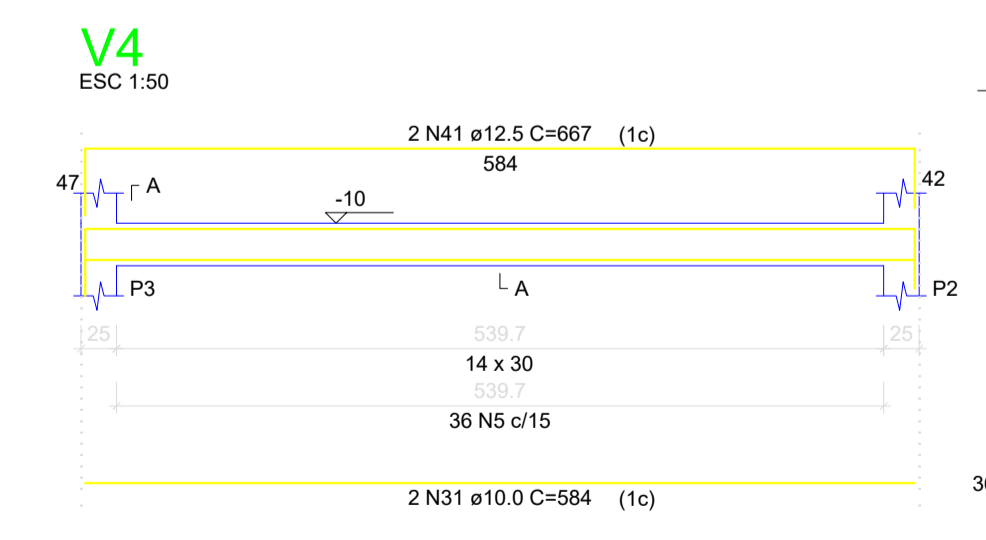
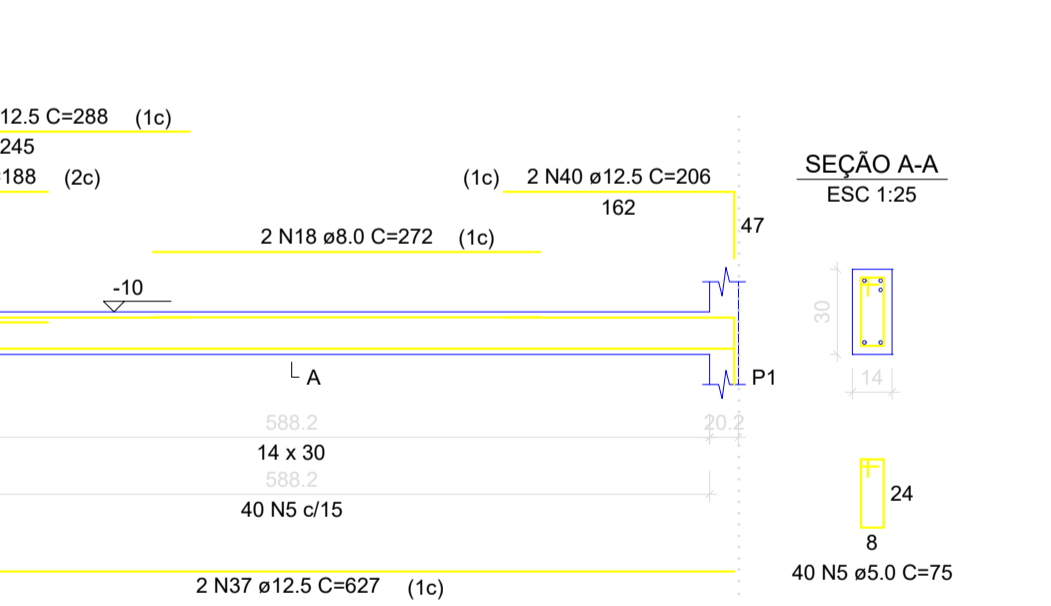
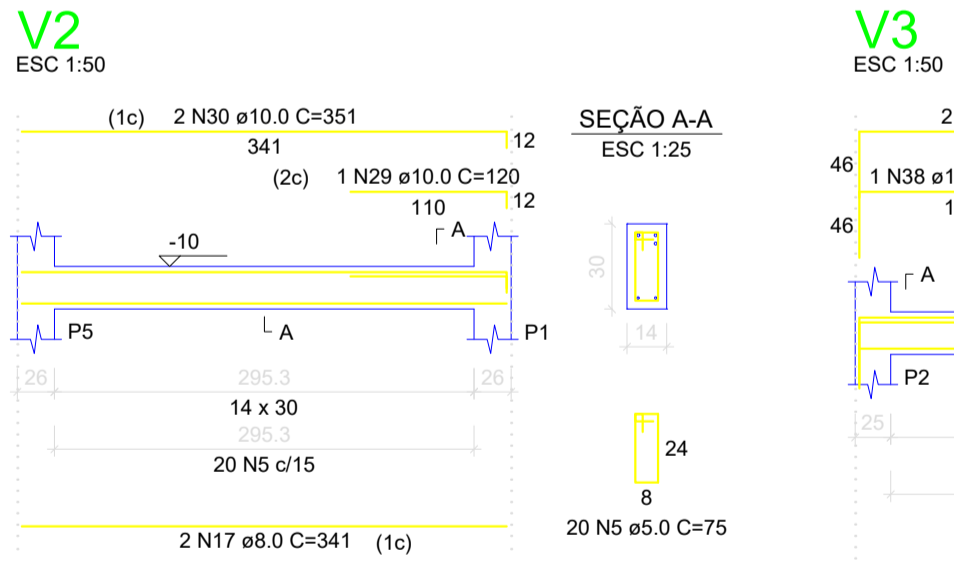
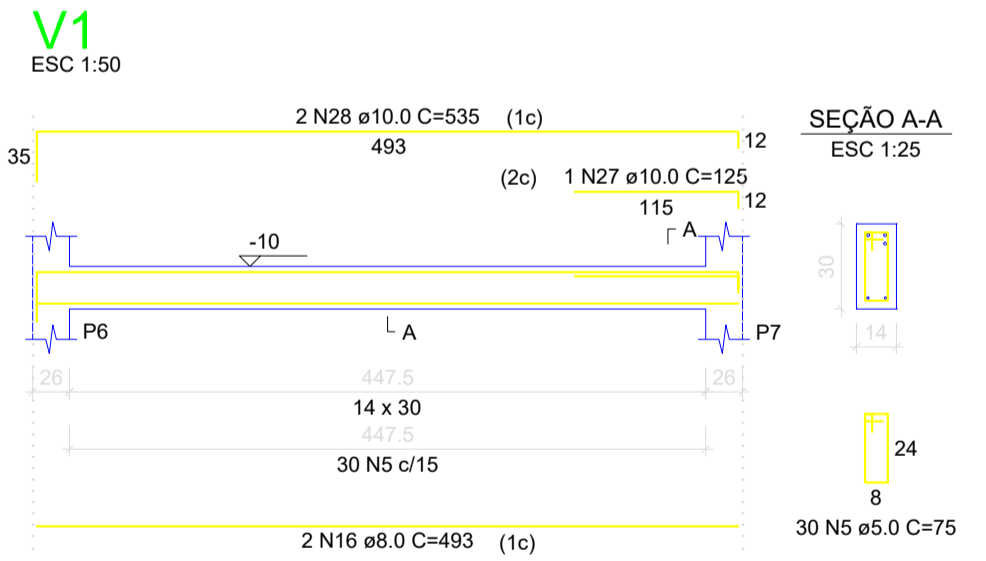
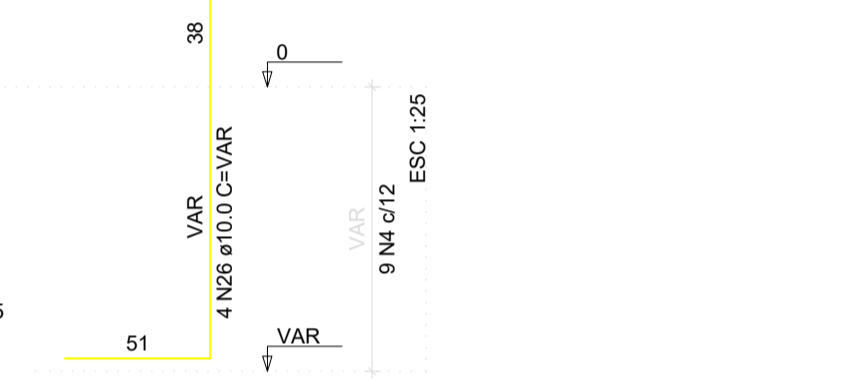
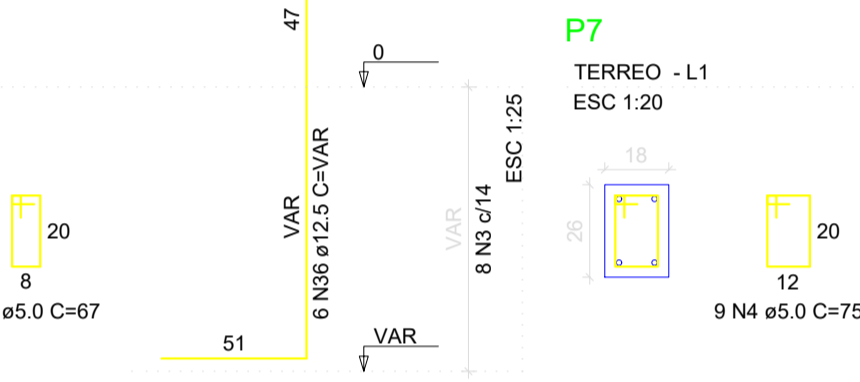
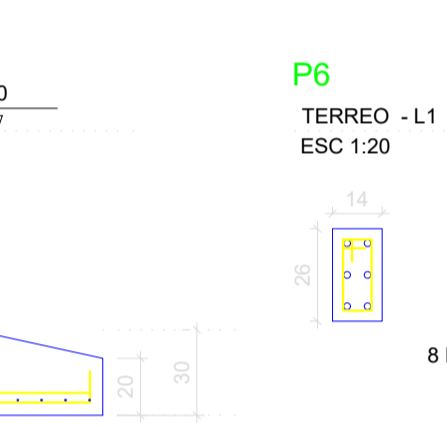
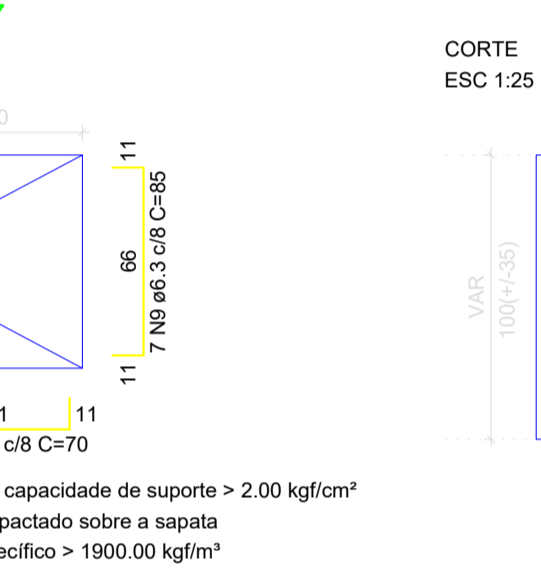
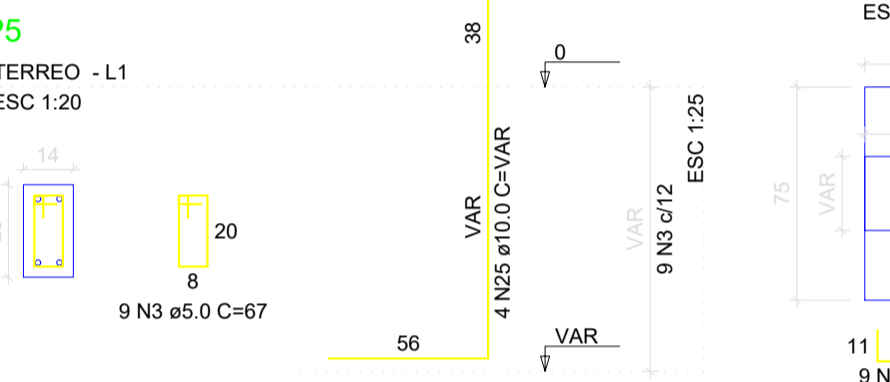
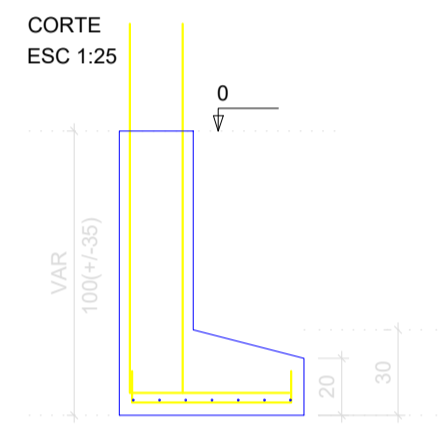
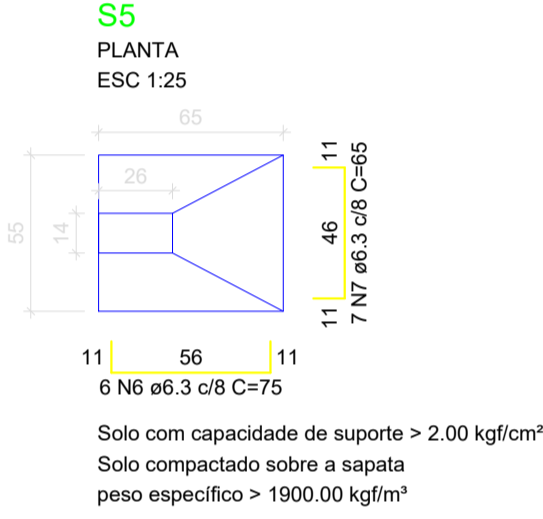
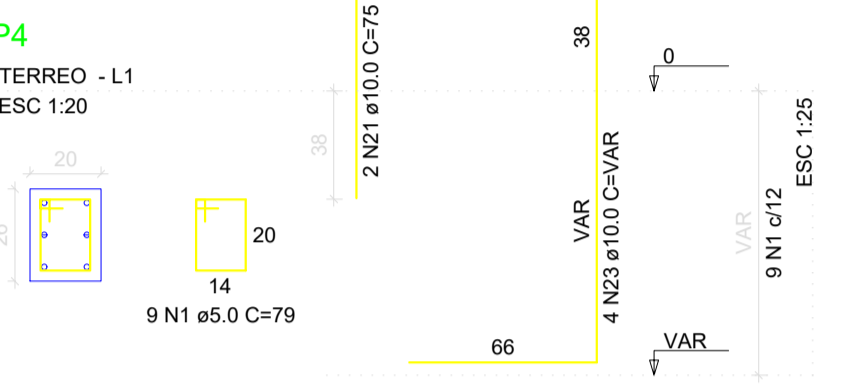
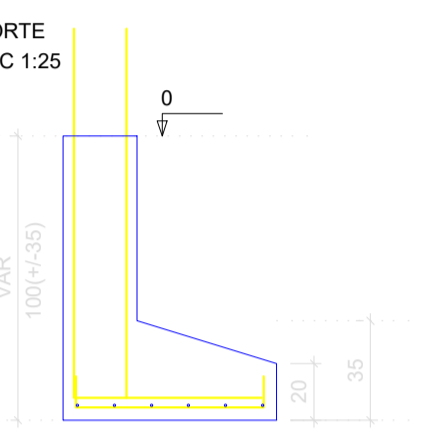
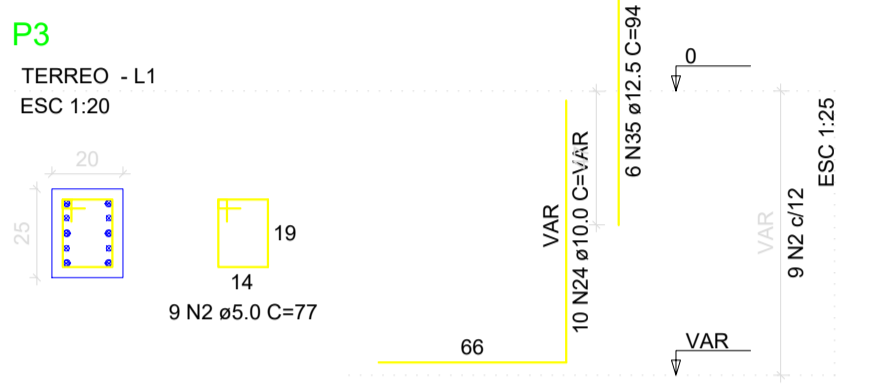
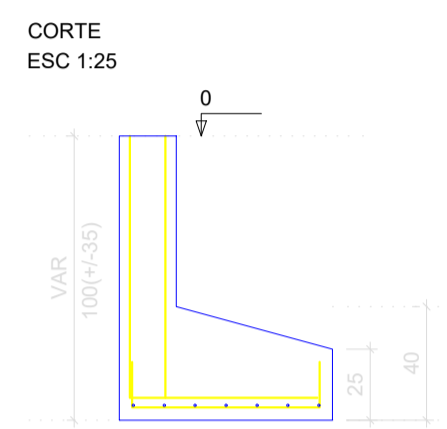
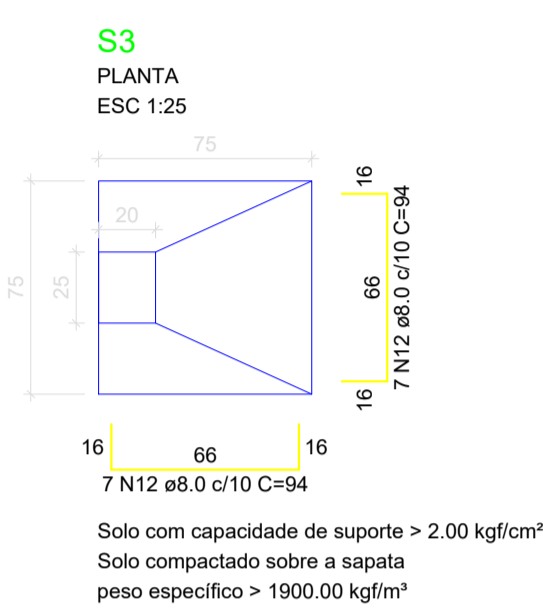
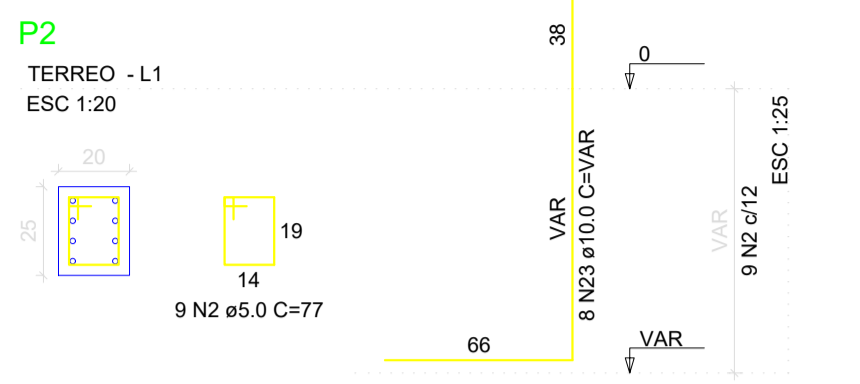
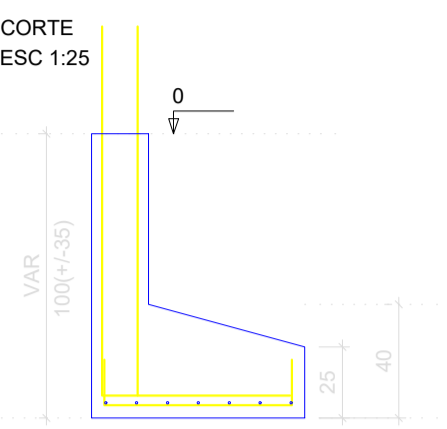
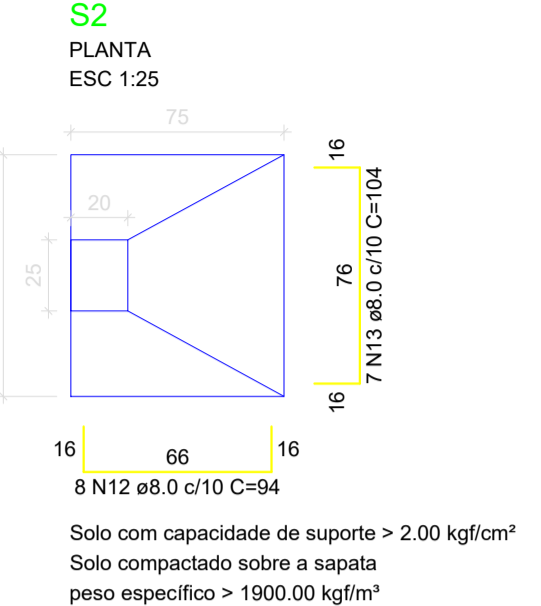
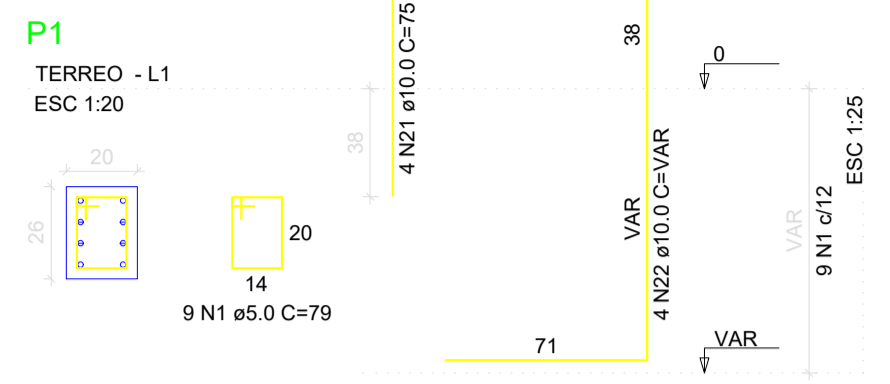
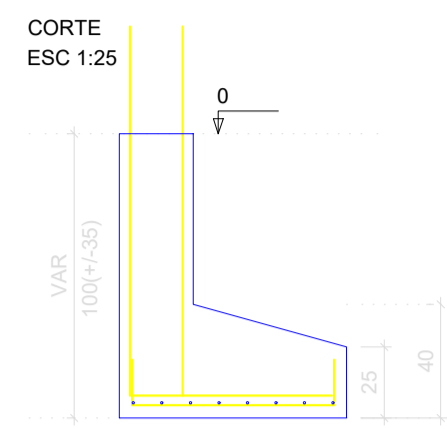
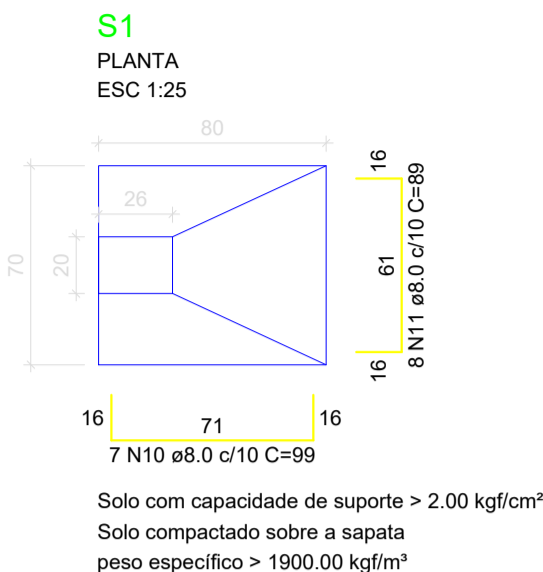
P1	P2	P3
P4	P5	P6
P7	S1	S2
S3	S4	S5
V1	V2	V3
V4	V5	V6

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	18	75	1422
	2	5.0	19	77	1386
	3	5.0	17	67	1139
	4	5.0	9	75	675
	5	5.0	165	75	13075
CA50	6	6.3	6	75	450
	7	6.3	7	65	455
	8	6.3	19	70	1300
	9	6.3	14	85	1190
	10	6.0	7	89	693
	11	6.0	8	89	712
	12	6.0	22	94	2068
	13	6.0	7	104	728
	14	6.0	6	84	504
	15	6.0	6	79	474
	16	6.0	2	493	986
	17	6.0	2	341	682
	18	6.0	2	272	544
	19	6.0	2	460	920
	20	6.0	2	441	882
	21	10.0	6	75	450
	22	10.0	4	VAR	VAR
	23	10.0	12	VAR	VAR
	24	10.0	10	VAR	VAR
	25	10.0	4	VAR	VAR
	26	10.0	4	VAR	VAR
	27	10.0	2	125	250
	28	10.0	2	535	1070
	29	10.0	1	120	120
	30	10.0	2	351	702
	31	10.0	2	584	1168
	32	10.0	1	125	125
	33	10.0	2	500	1000
	34	10.0	2	460	920
	35	12.5	6	84	504
	36	12.5	6	VAR	VAR
	37	12.5	2	627	1254
	38	12.5	1	189	189
	39	12.5	2	288	576
	40	12.5	2	206	412
	41	12.5	2	697	1394

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	33.5	9
	6.0	91.9	39.8
	10.0	120.4	81.8
	12.5	54.7	58
CA60	5.0	185	31.4
PESO TOTAL (kg)			
CA50		188.6	
CA60		31.4	

Volume de concreto (C-25) = 2.59 m³
Área de forma = 33.23 m²



Albino Neckel
Engenheiro civil
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Cliente:	Responsável Técnico:
Câmara Municipal de Vereadores de Lages	Albino Maffei Neckel
Obra: Ampliação	
Proprietário: Câmara Municipal de Vereadores de Lages	
Endereço da obra: Rua Otacilio Vieira da Costa, 280, B. Centro, Lages/SC	
Descrição: Sapatas e Vigas de Baldrame	Prancha: EST. 02/03
Área: Área à ampliar = 80,84 m²	
Escala: Indicada	Data: Agosto/2018
	Desenho: Albino Neckel