

## Relação do aço

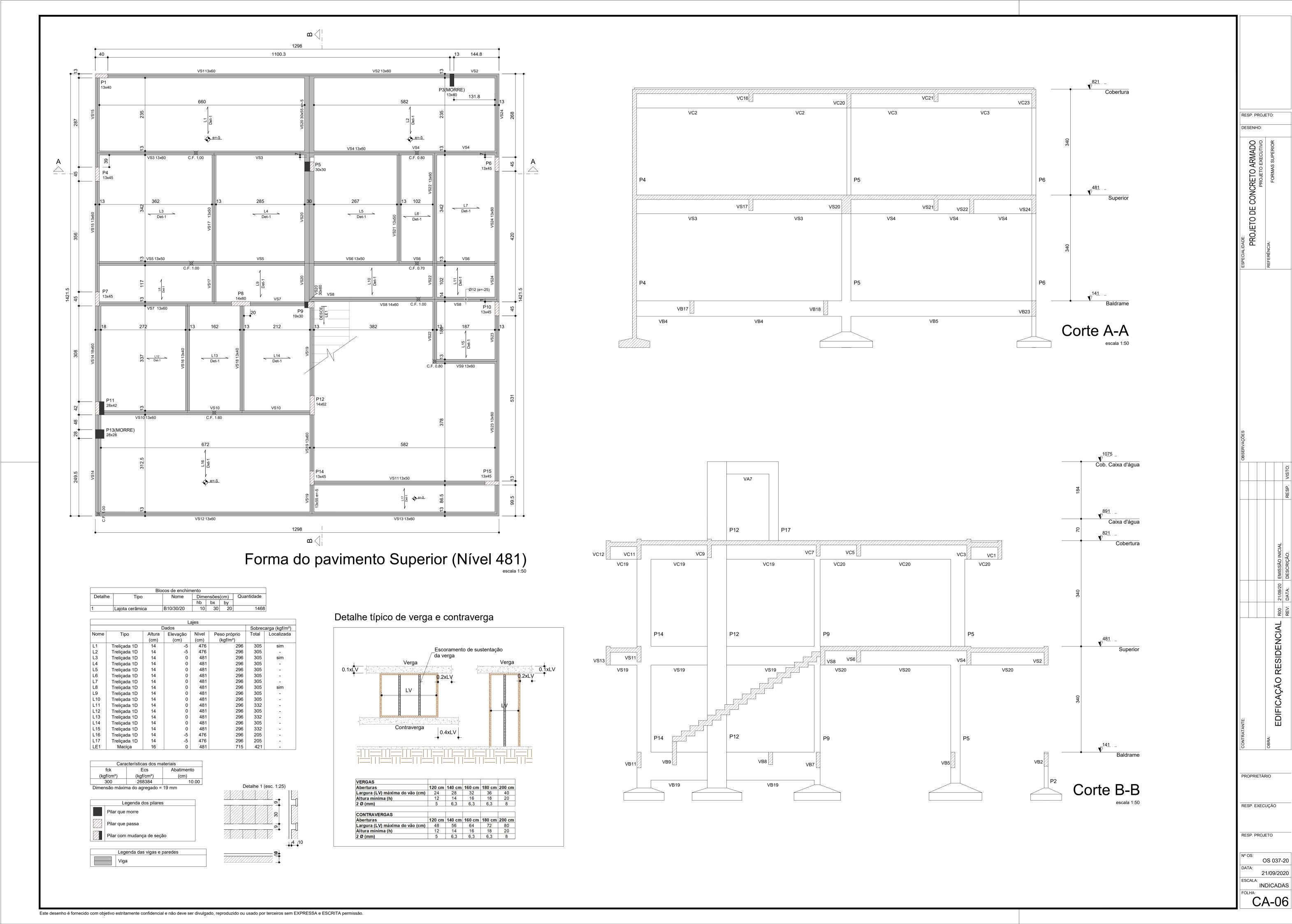
VB21		VB22		VB23	
AÇO	N	DIAM	QUANT	C.UNIT	C.TOTAL
		(mm)		(cm)	(cm)
CA60	1	5.0	26	98	2548
	2	5.0	36	118	4248
CA50	3	8.0	2	308	616
	4	8.0	2	341	682
	5	8.0	2	513	1026
	6	8.0	2	291	582
	7	8.0	1	525	525
	8	10.0	2	584	1168
	9	12.5	2	598	1196
	10	12.5	2	537	1074
	11	12.5	2	525	1050

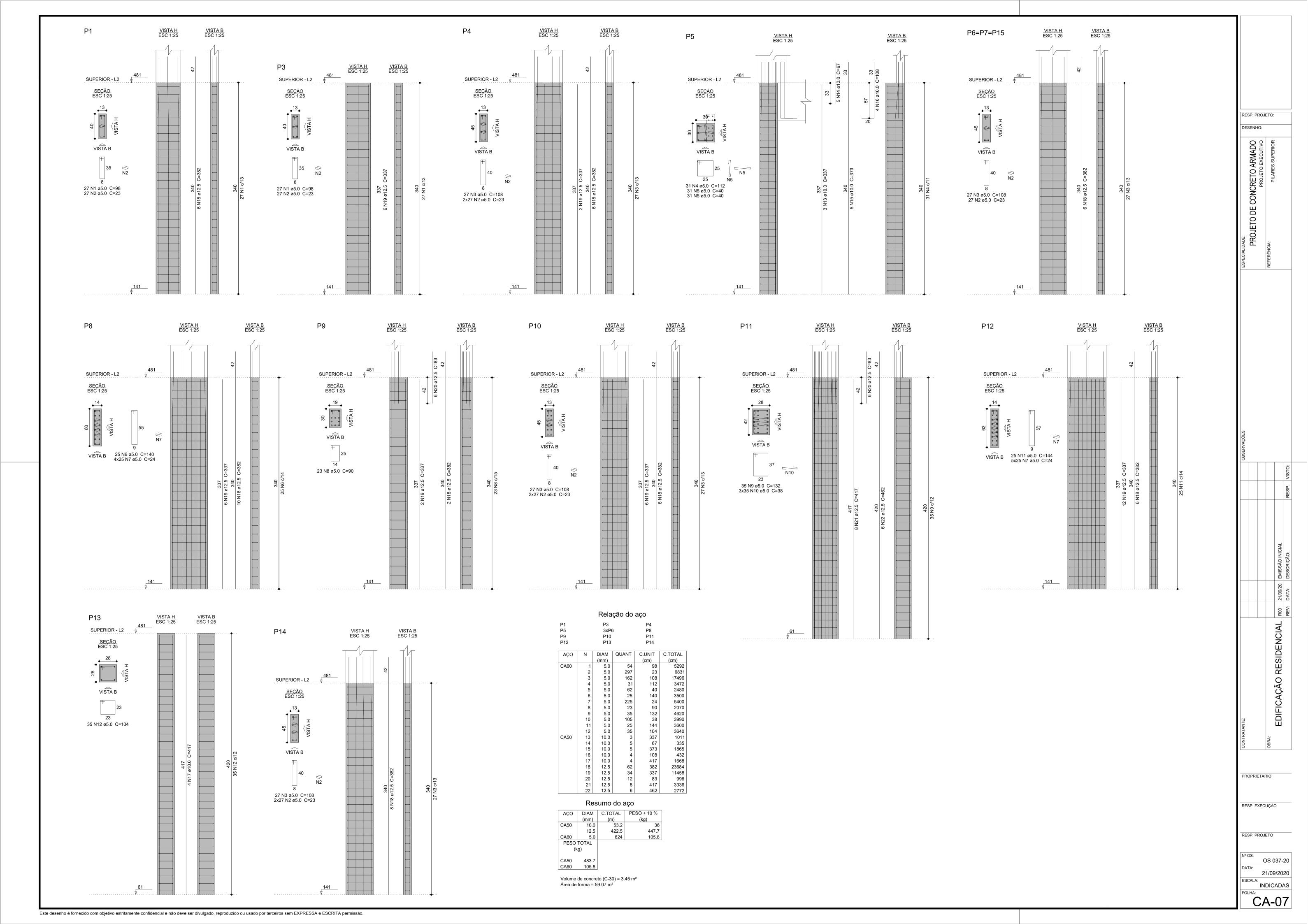
## Resumo do aco

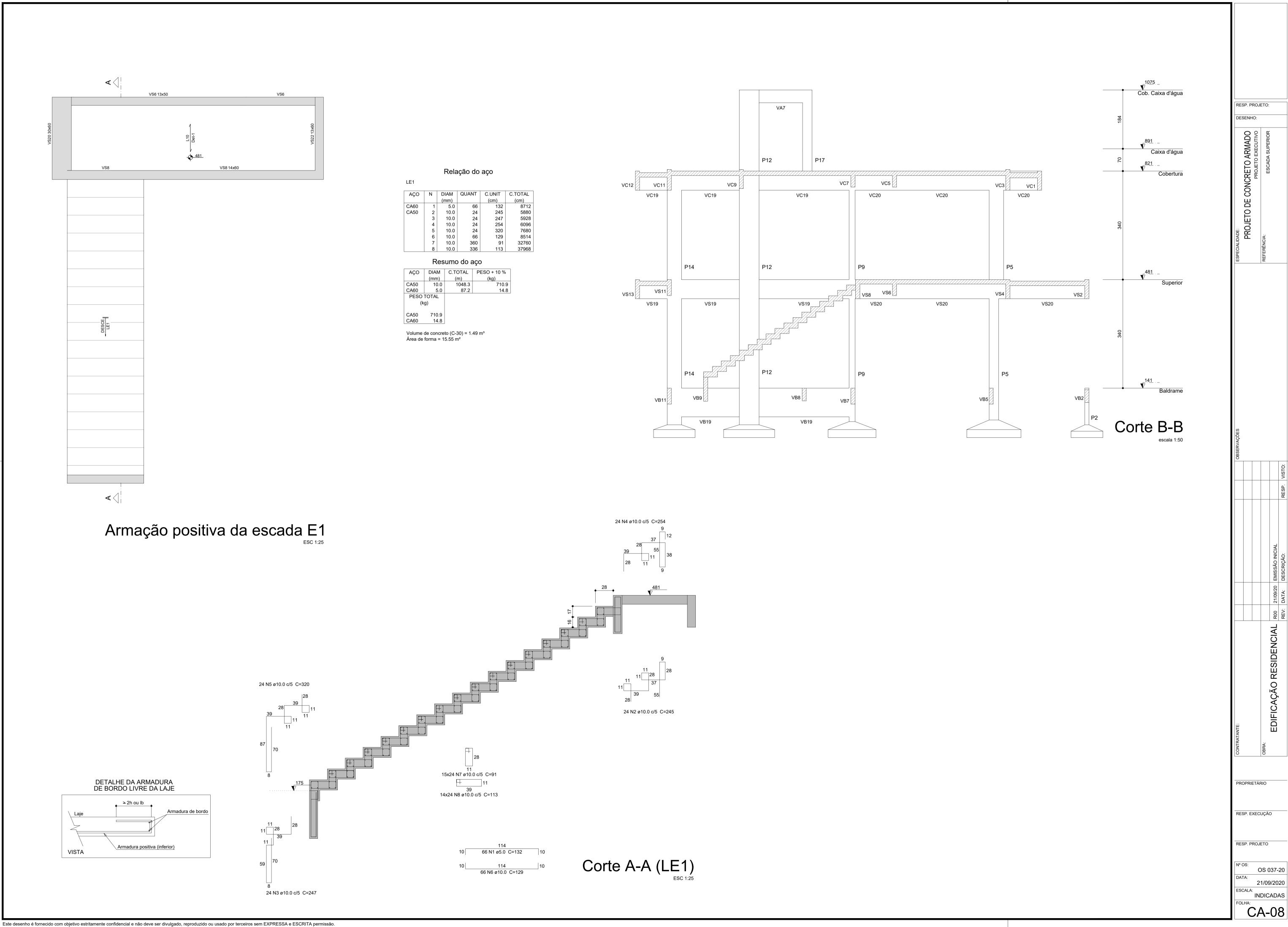
	Res	umo do a	aço
AÇO	DIAM	C.TOTAL	PESO + 10 %
-	(mm)	(m)	(kg)
CA50	8.0	34.4	14.9
	10.0	11.7	7.9
	12.5	33.2	35.2
CA60	5.0	68	11.5
PESO	TOTAL		
(k	g)		
CA50	58		
CA60	11.5		

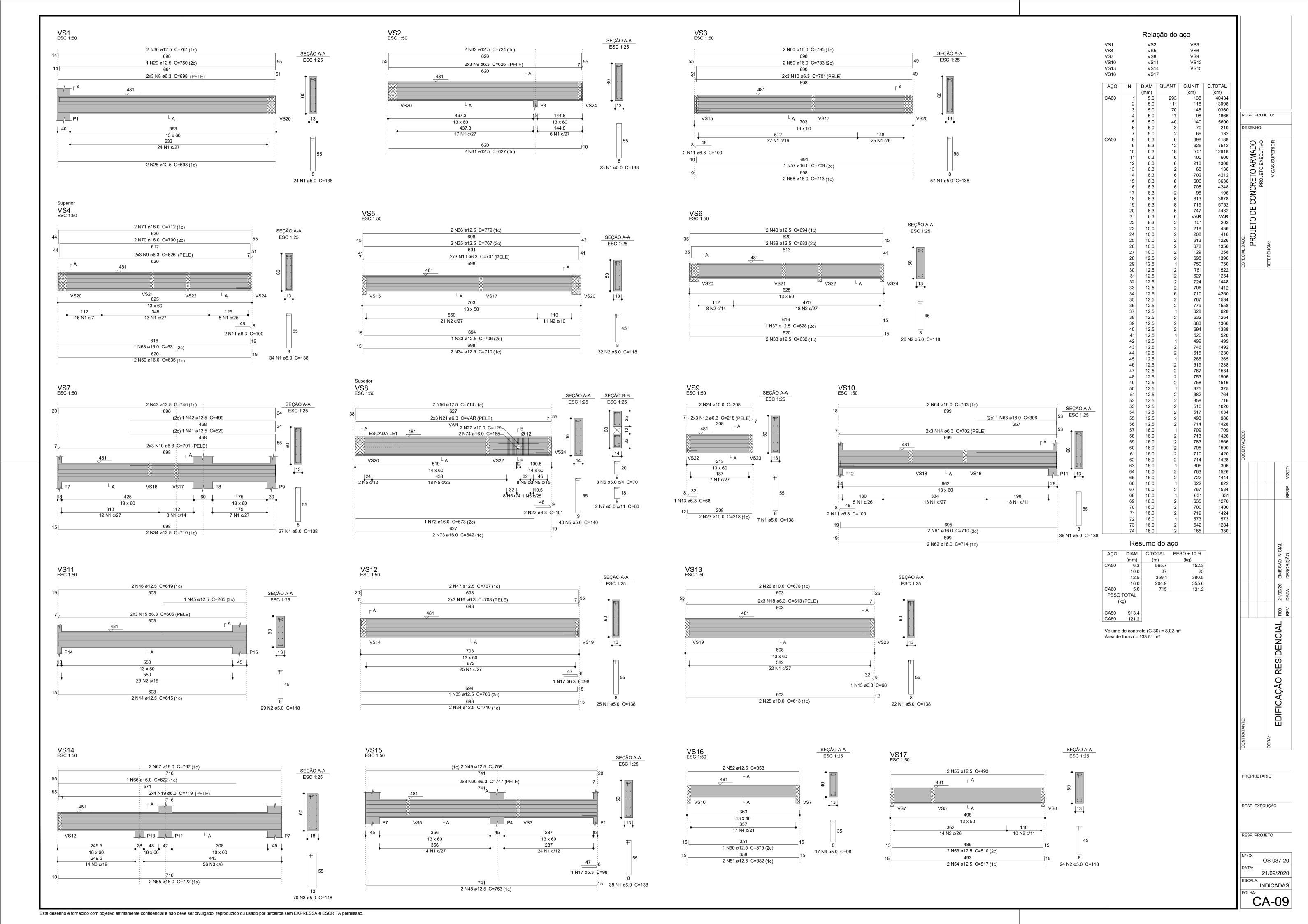
Volume de concreto (C-30) = 1.01 m³ Área de forma = 17.77 m²

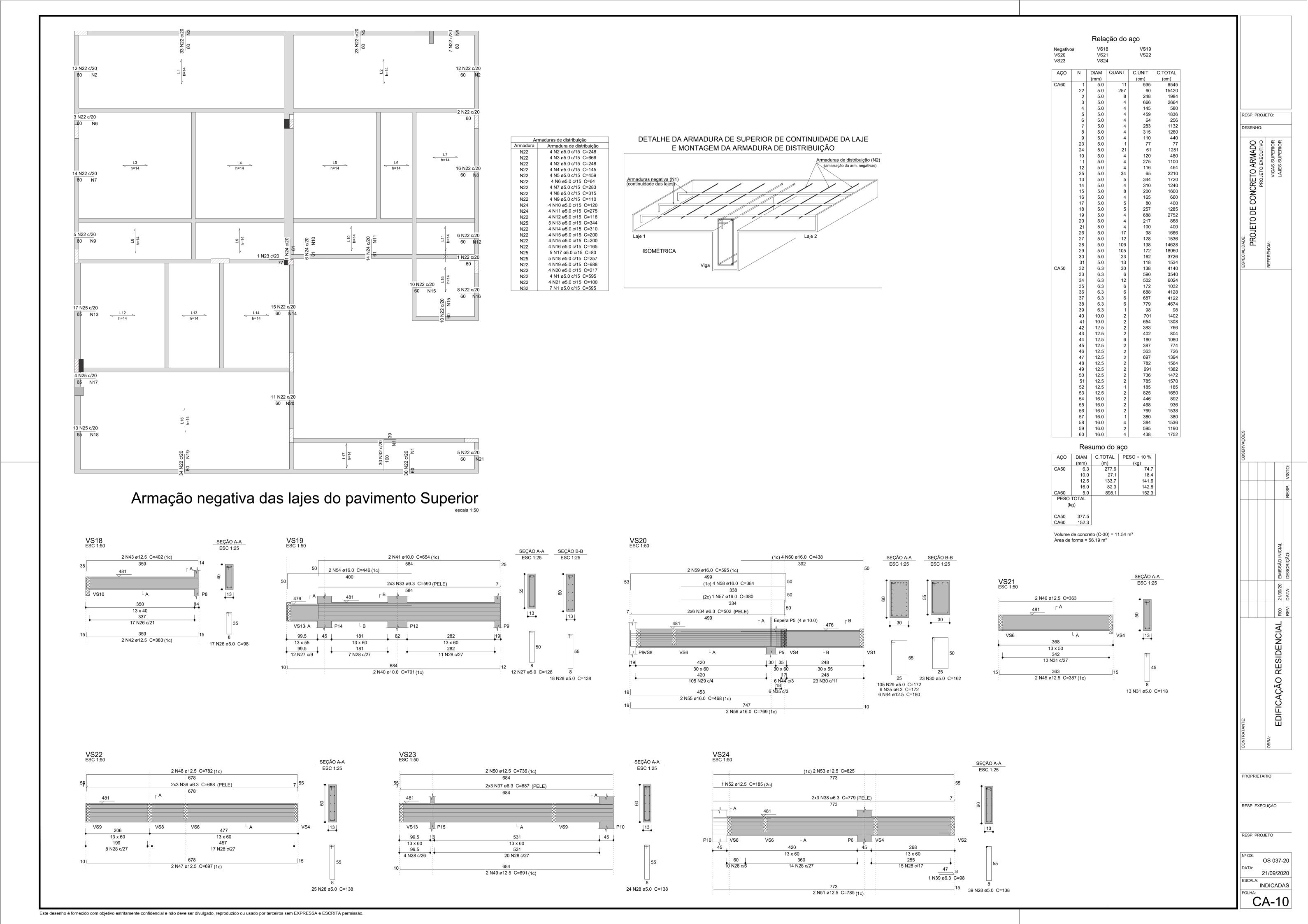
RESP. PROJETO: DESENHO: ESTRUTURA DE CONCRETO ARMADO PROJETO EXECUTIVO EDIFICAÇÃO RESIDENCIAL PROPRIETÁRIO RESP. EXECUÇÃO RESP. PROJETO Nº OS: OS 037-20 DATA: 21/09/2020 ESCALA: INDICADAS

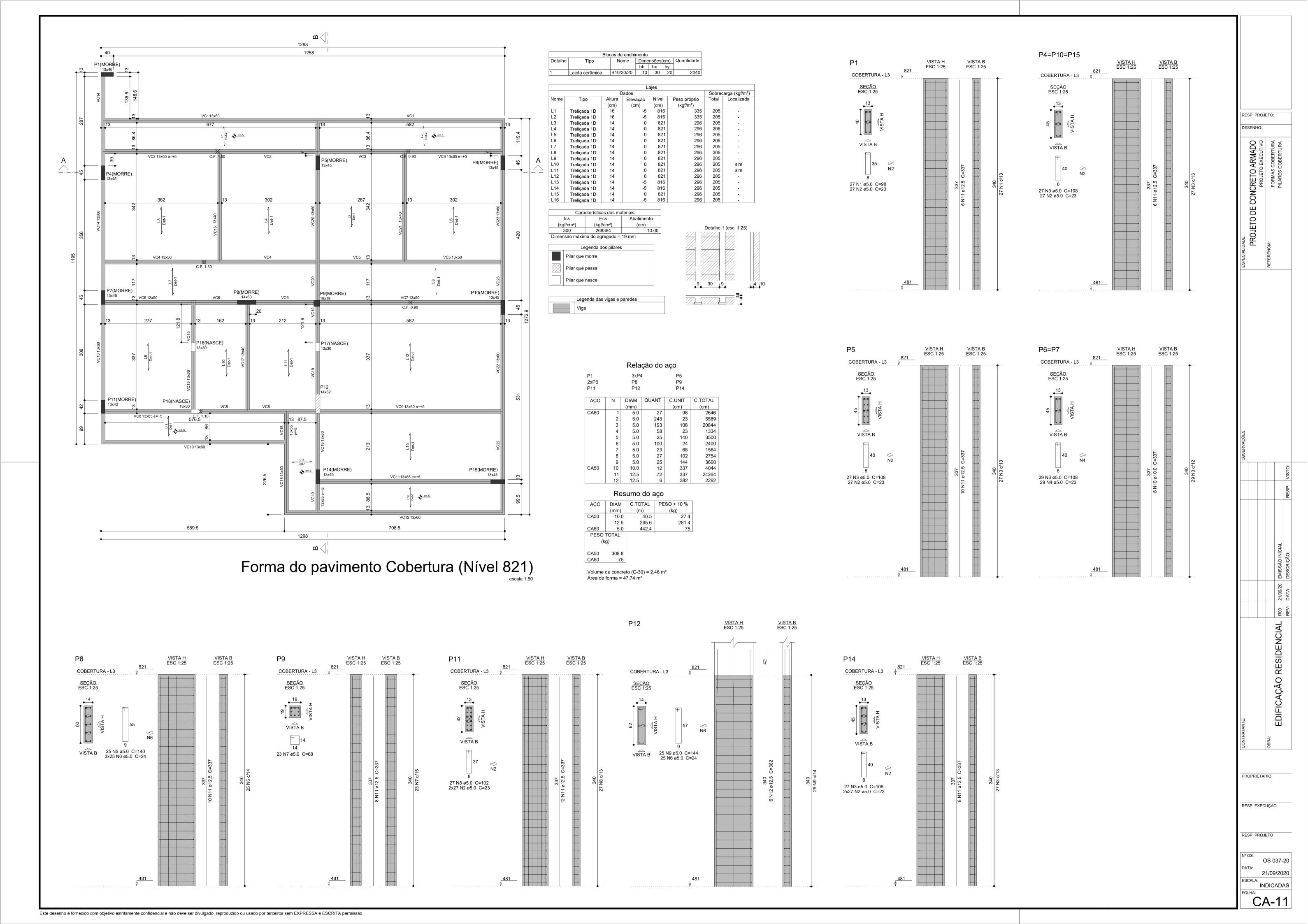


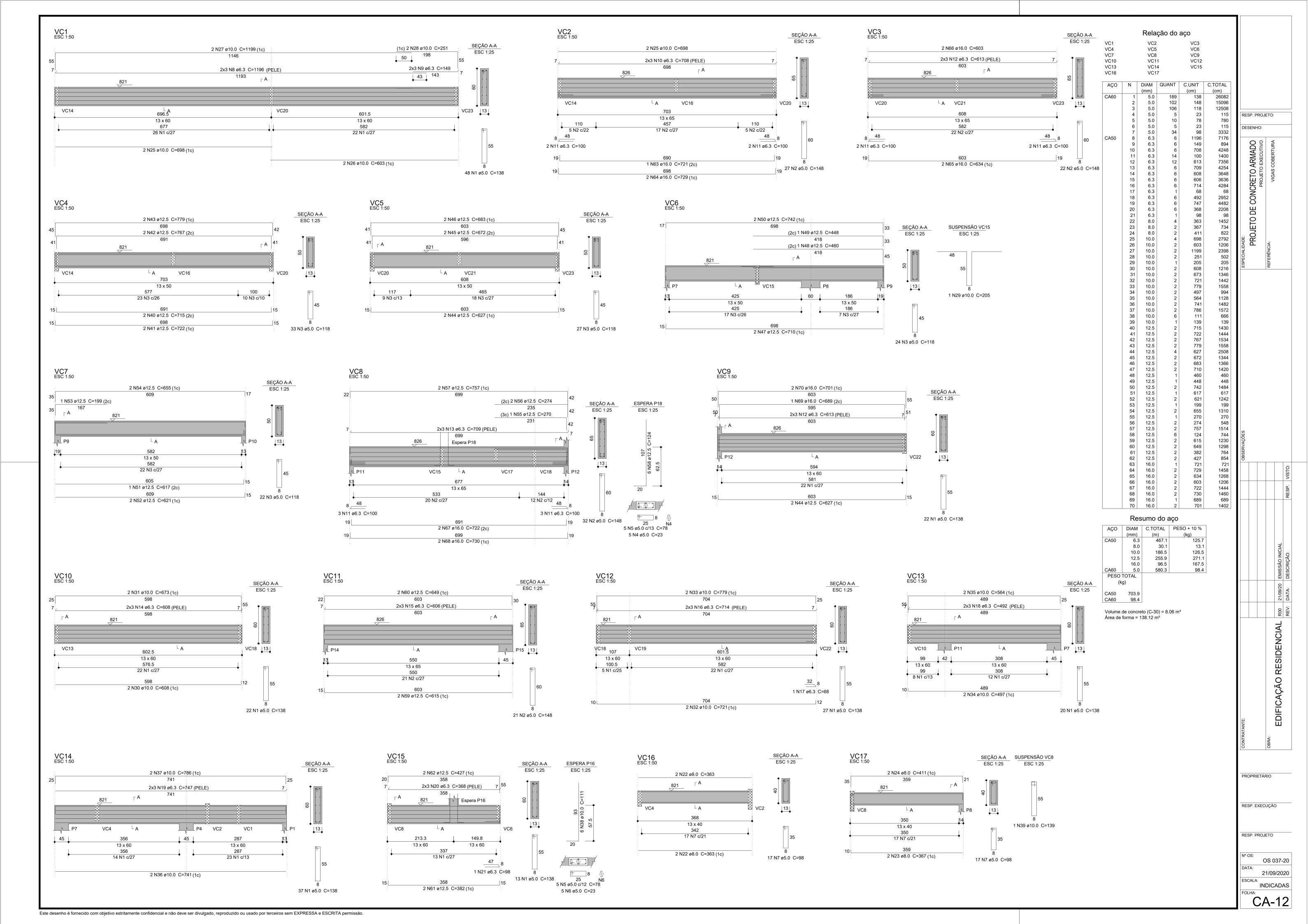


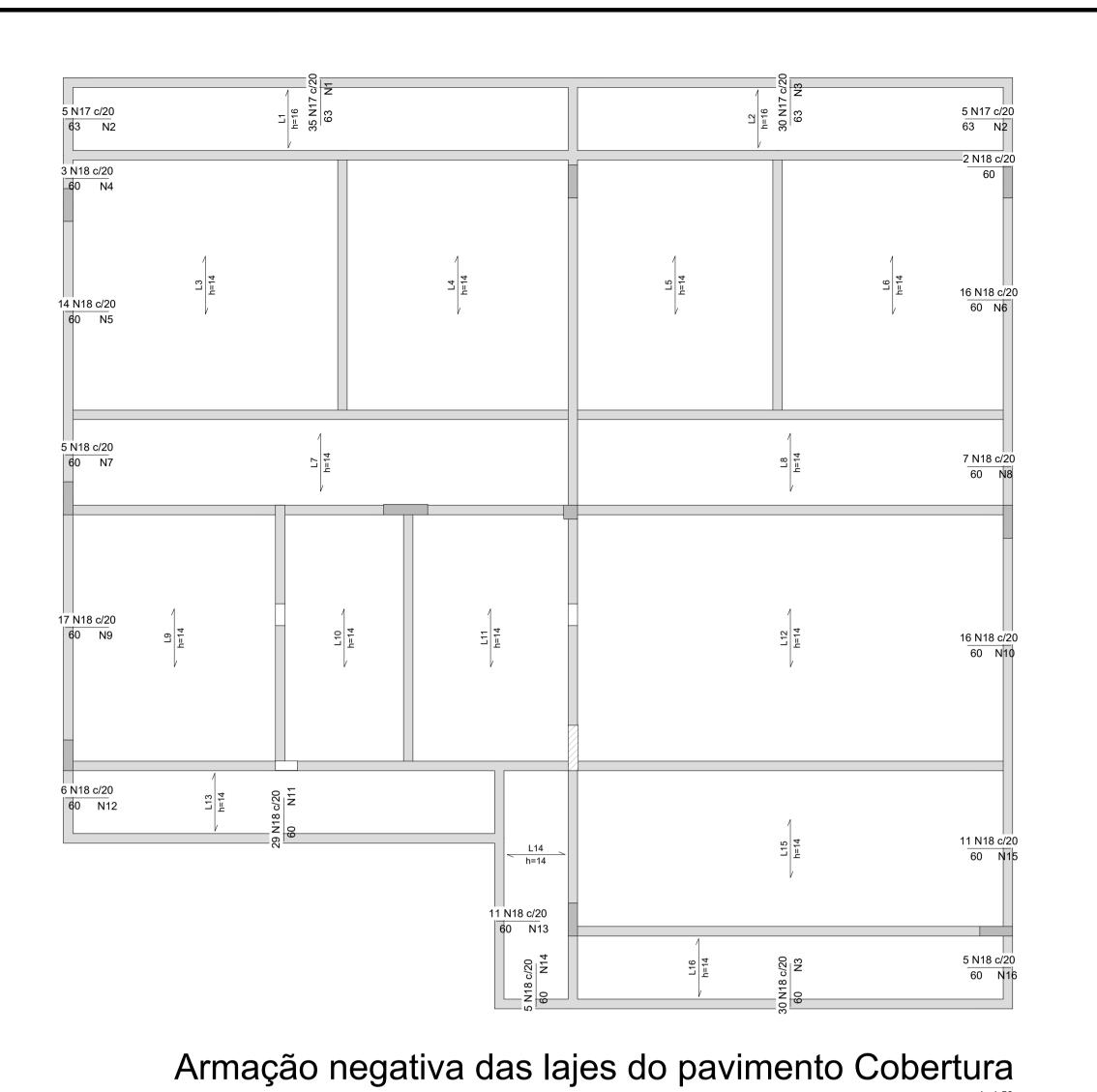


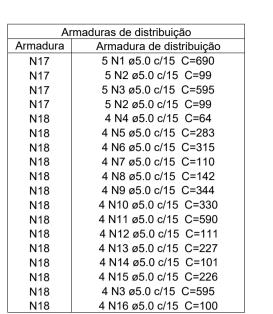


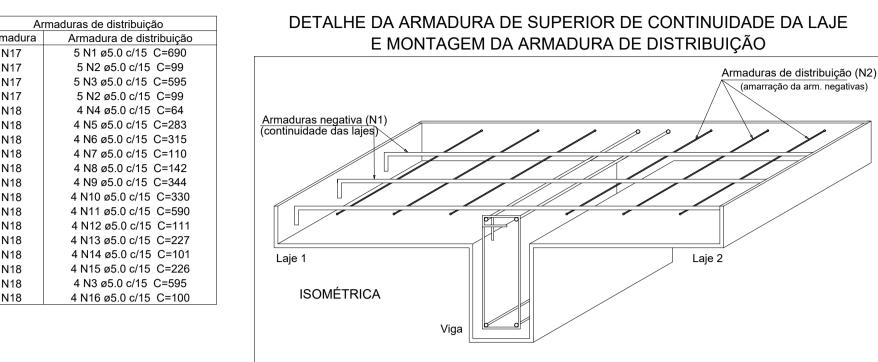












## Relação do aço

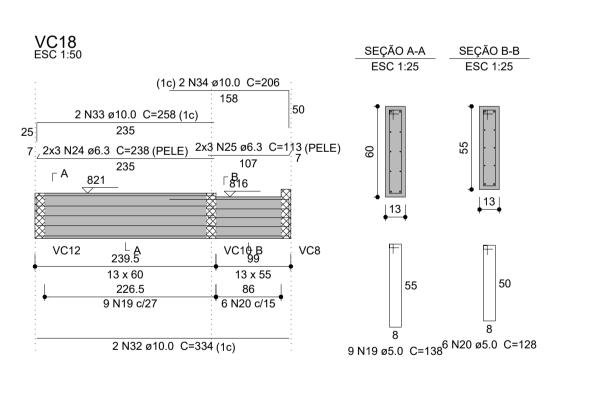
Negativos VC20 VC23 VC18 VC21 VC19 VC22

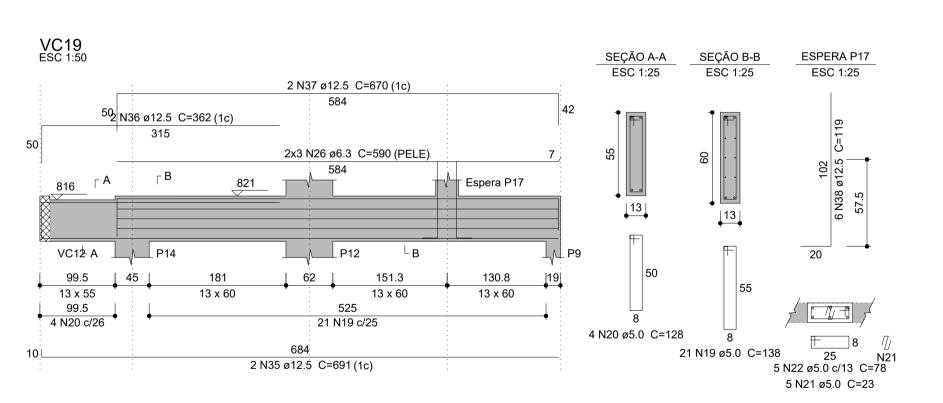
AÇO	N	DIAM	QUANT	C.UNIT	C.TOTA
		(mm)		(cm)	(cm)
CA60	17	5.0	75	63	472
	1	5.0	5	690	345
	2	5.0	10	99	99
	3	5.0	9	595	535
	18	5.0	177	60	1062
	4	5.0	4	64	25
	5	5.0	4	283	113
	6	5.0	4	315	126
	7	5.0	4	110	44
	8	5.0	4	142	56
	9	5.0	4	344	137
	10	5.0	4	330	132
	11	5.0	4	590	236
	12	5.0	4	111	44
	13	5.0	4	227	90
	14	5.0	4	101	40
	15	5.0	4	226	90
	16	5.0	4	100	40
	19	5.0	127	138	1752
	20	5.0	10	128	128
	21	5.0	5	23	11
	22	5.0	5	78	39
	23	5.0	17	98	166
CA50	24	6.3	6	238	142
	25	6.3	6	113	67
	26	6.3	6	590	354
	27	6.3	6	608	364
	28	6.3	11	138	151
	29	6.3	6	687	412
	30	6.3	6	630	378
	31	8.0	4	363	145
	32	10.0	2	334	66
	33	10.0	2	258	51
	34	10.0	2	206	4
	35	12.5	4	691	276
	36	12.5	2	362	72
	37	12.5	2	670	134
	38	12.5	6	119	7′
	39	12.5	2	764	152
	40	12.5	2	631	126
	41	12.5	2	701	140
	42	16.0	2	616	123
	43	16.0	1	401	40
	44	16.0	2	681	136

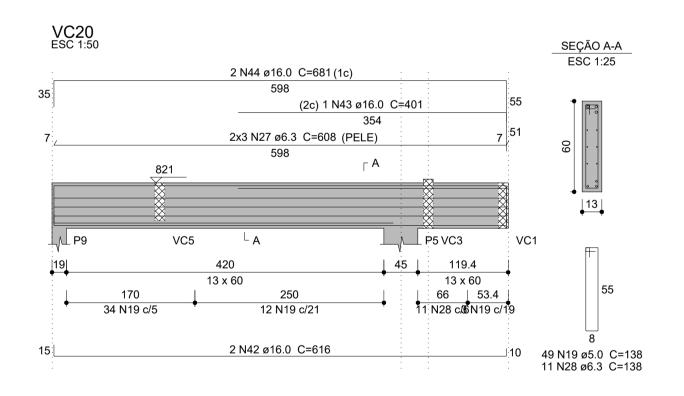
## Resumo do aço

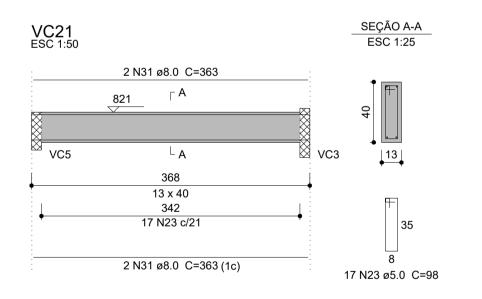
AÇO	DIAM	C.TOTAL	PESO + 1
	(mm)	(m)	(kg)
CA50	6.3	187.2	
	8.0	14.6	
	10.0	16	
	12.5	97.4	
	16.0	30	
CA60	5.0	578.9	
PESO	TOTAL		
(k	g)		
CA50	222.6		
CA60	98.1		

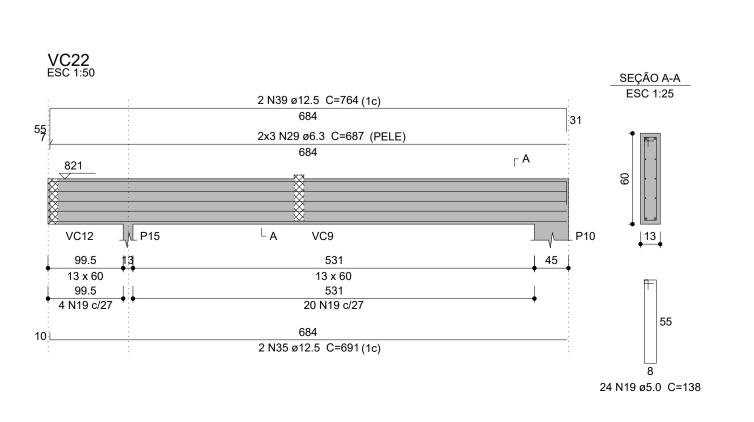
Volume de concreto (C-30) = 10.09 m<sup>3</sup> Área de forma = 42.41 m²

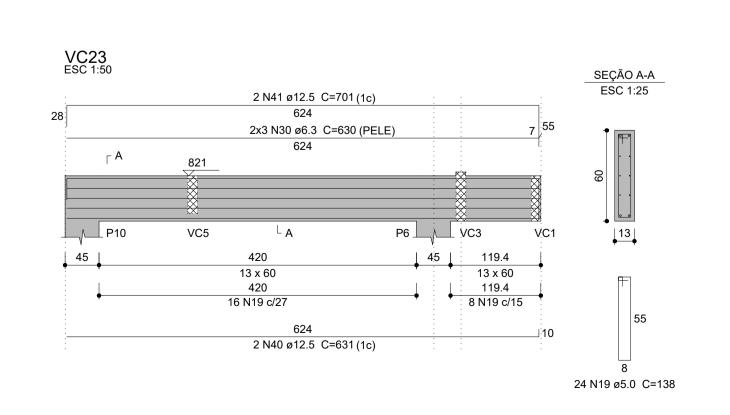












PROPRIETÁRIO RESP. EXECUÇÃO

RESP. PROJETO:

PROJETO DE CONCRETO ARMADO
PROJETO EXECUTIVO
IA:

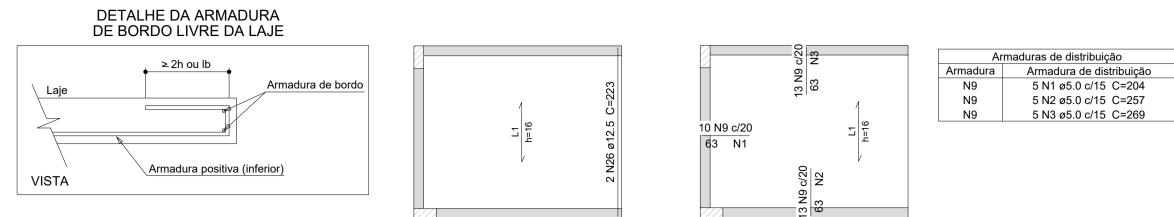
DESENHO:

RESP. PROJETO

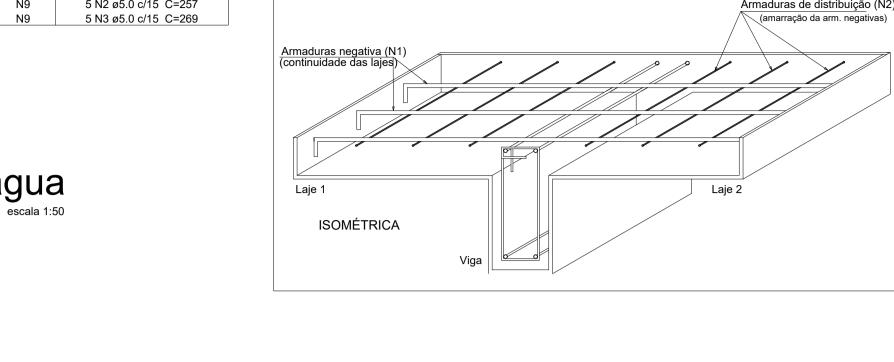
21/09/2020

CA-13

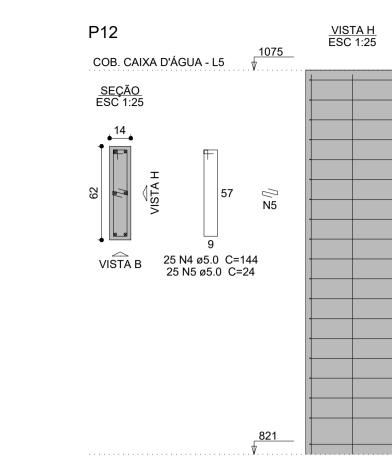
Este desenho é fornecido com objetivo estritamente confidencial e não deve ser divulgado, reproduzido ou usado por terceiros sem EXPRESSA e ESCRITA permissão.

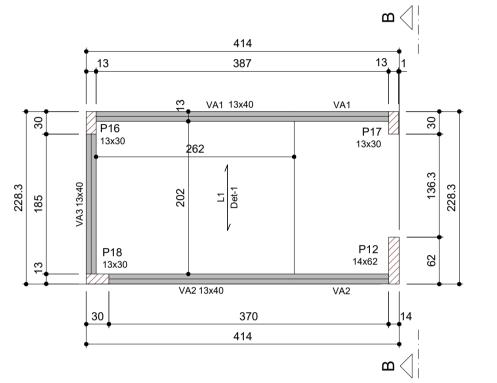


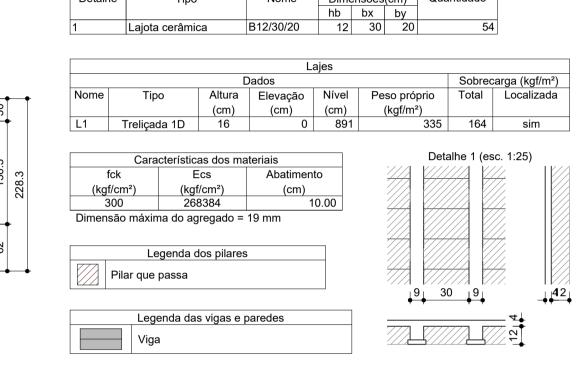
Armação negativa/positiva das lajes do pavimento Caixa d'água



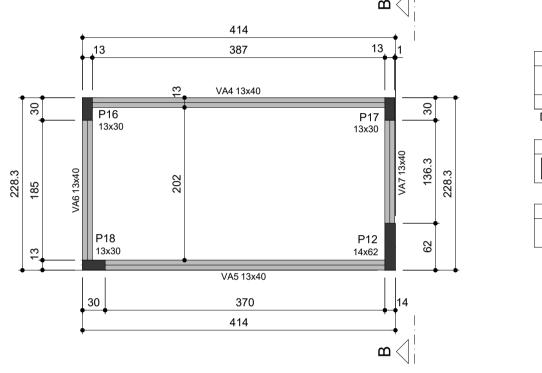
DETALHE DA ARMADURA DE SUPERIOR DE CONTINUIDADE DA LAJE E MONTAGEM DA ARMADURA DE DISTRIBUIÇÃO



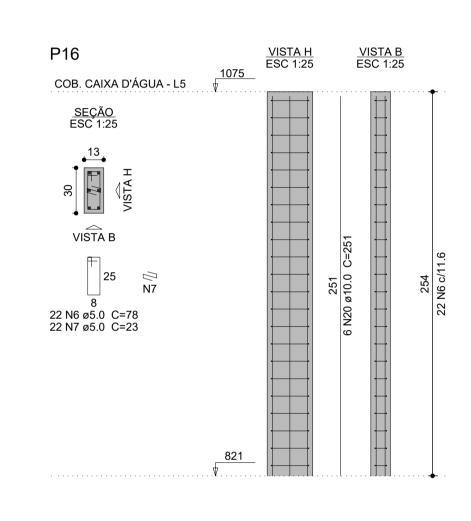


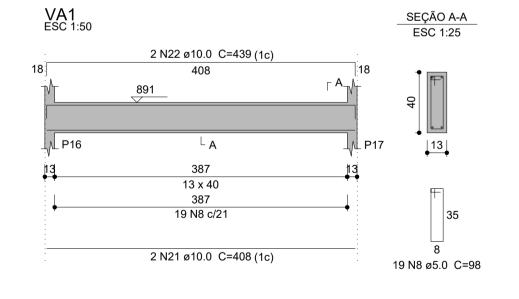


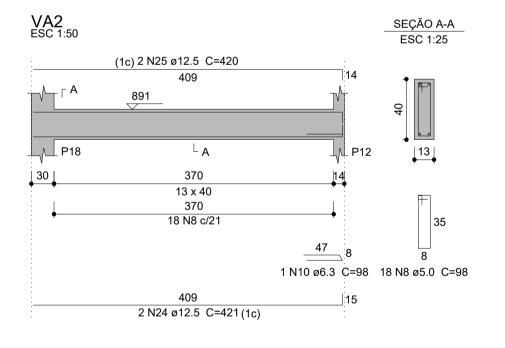
Forma do pavimento Caixa d'água (Nível 891)

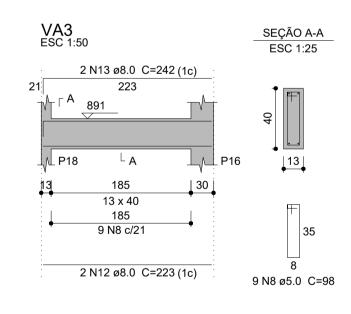


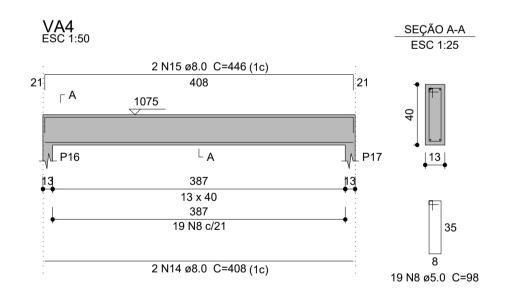
Forma do pavimento Cob. Caixa d'água (Nível 1075)

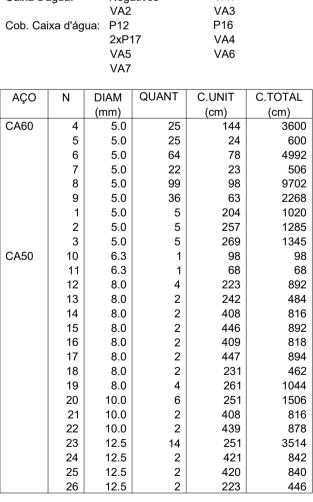




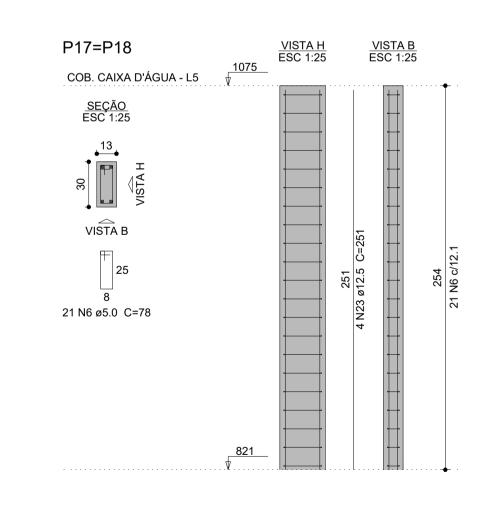


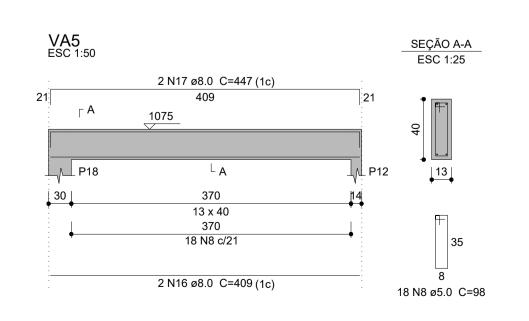


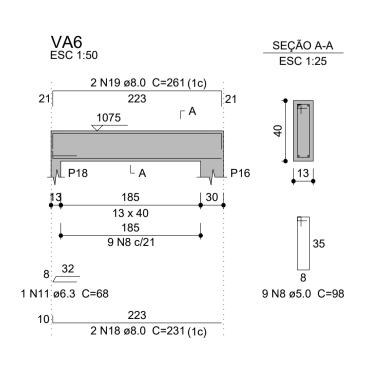


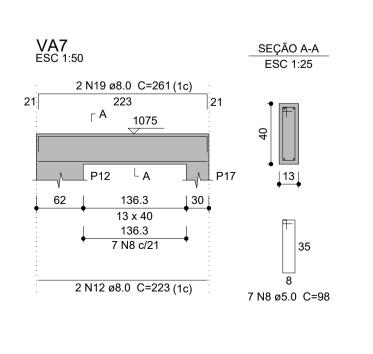


Relação do aço









AÇO	DIAM	C.TOTAL	PESO + 10 %
	(mm)	(m)	(kg)
CA50	6.3	1.7	0.4
	8.0	63.1	27.4
	10.0	32	21.7
	12.5	56.5	59.8
CA60	5.0	253.2	42.9
PESO	TOTAL		
(k	g)		
CA50	109.3		
CA60	42.9		

RESP. PROJETO:

DESENHO:

PROJETO DE CONCRETO ARMADO PROJETO EXECUTIVO