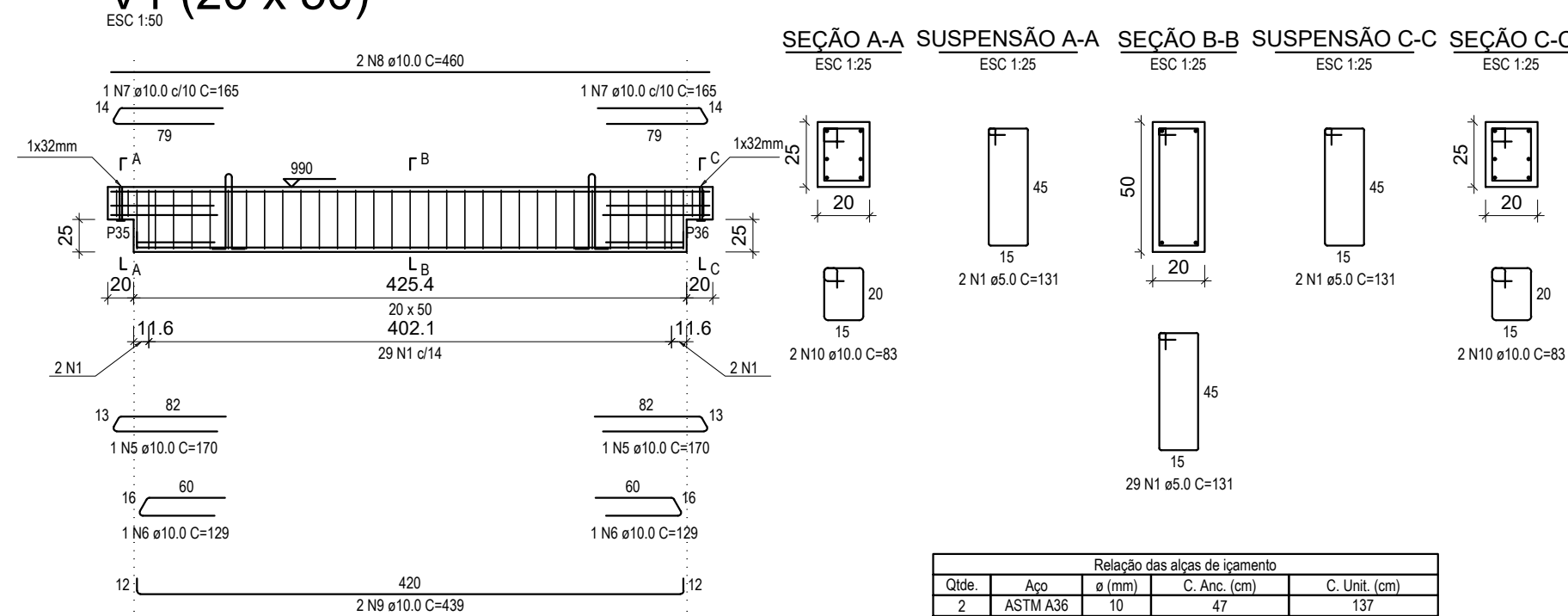
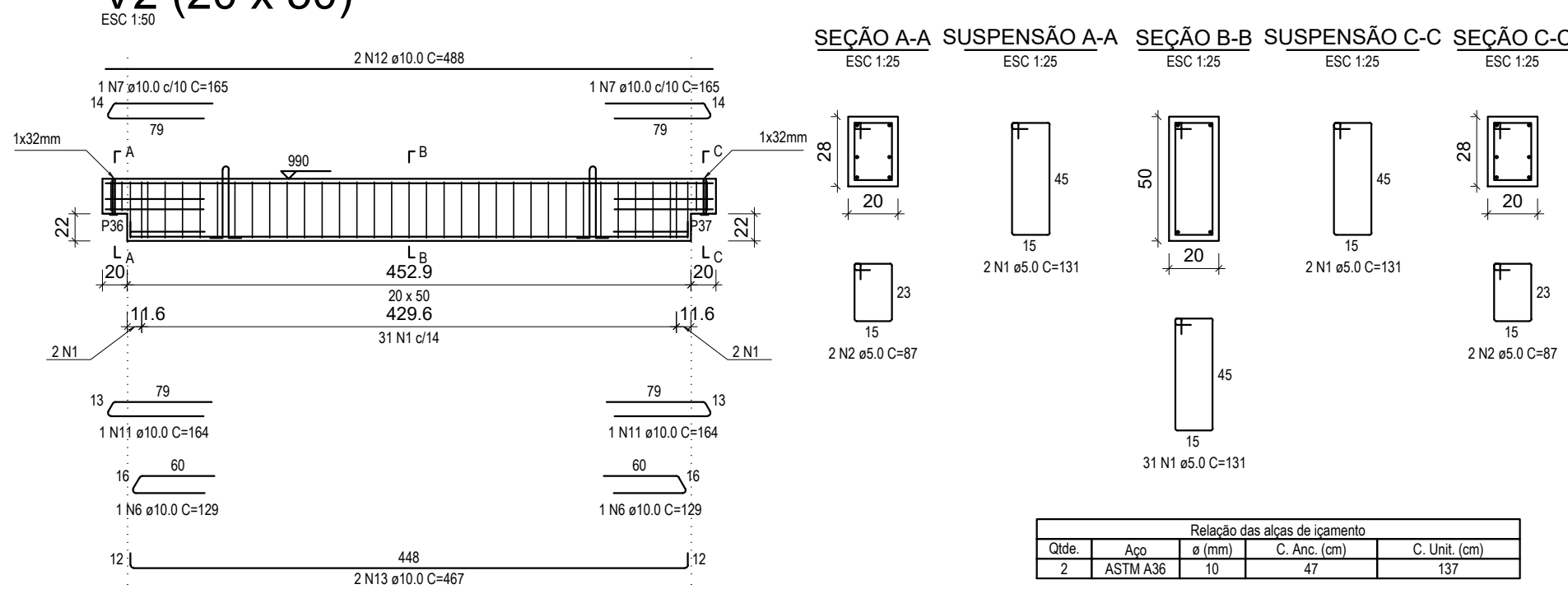


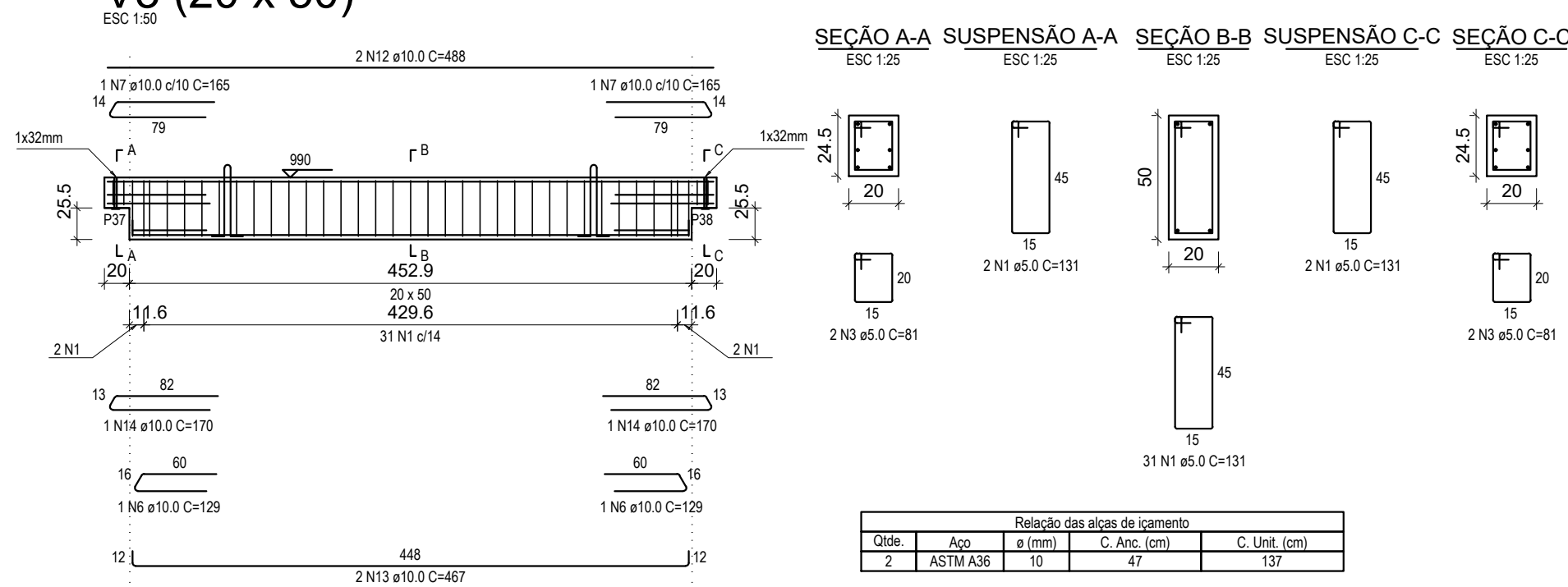
V1 (20 x 50)



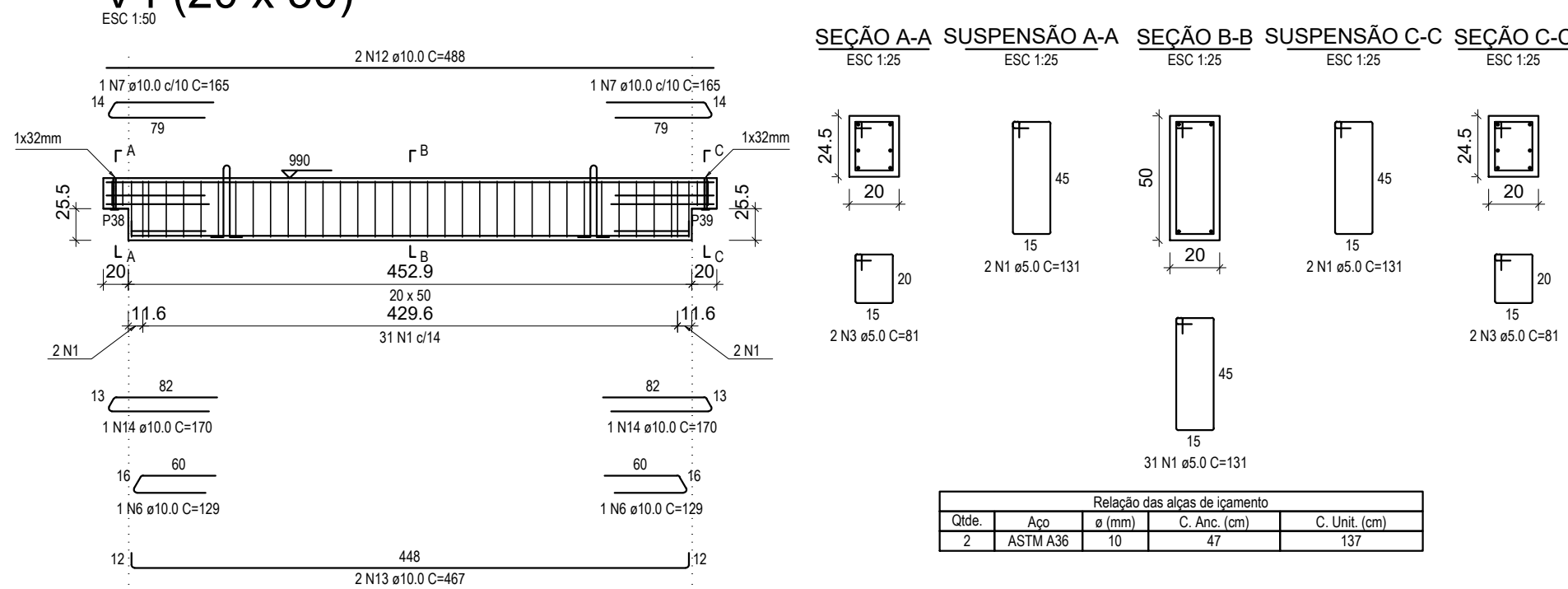
V2 (20 x 50)



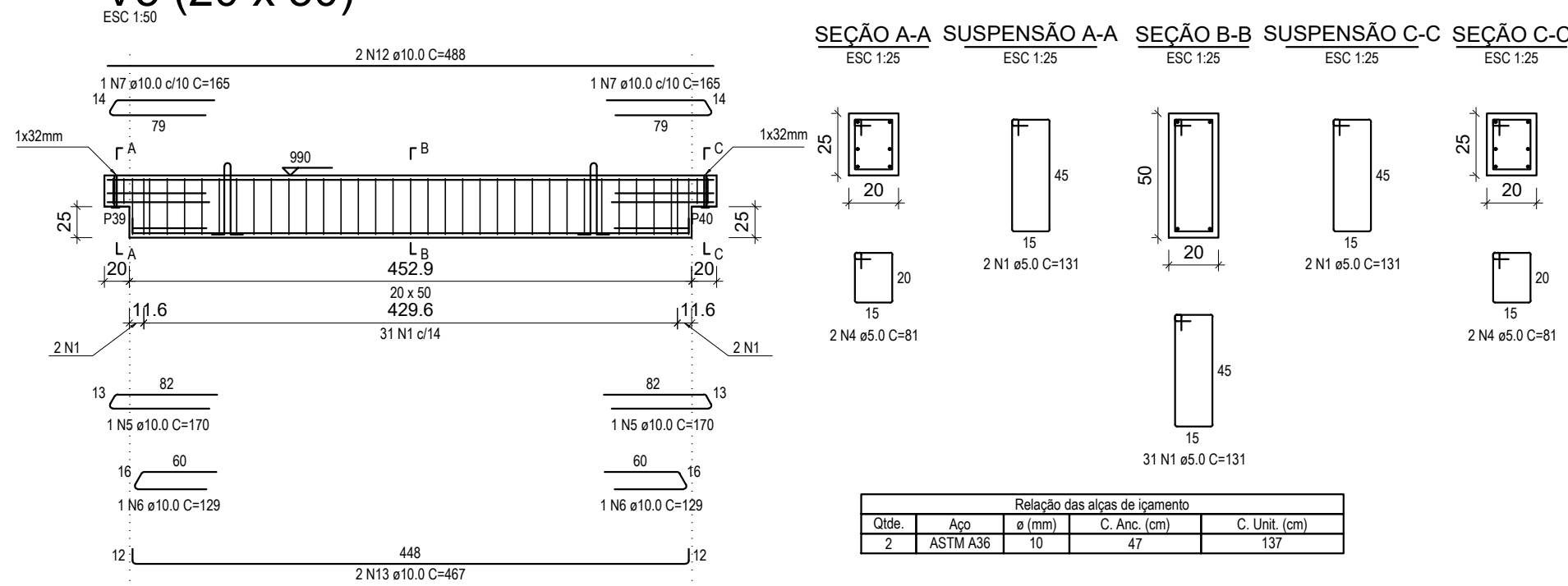
V3 (20 x 50)



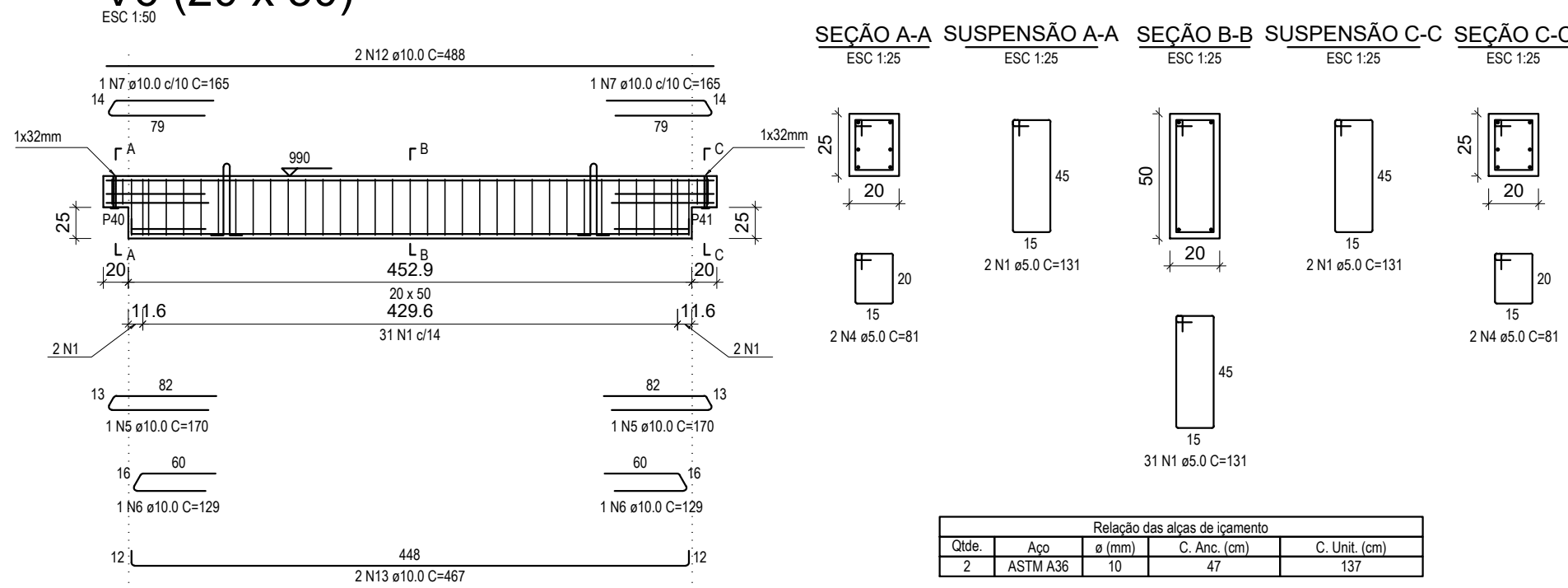
V4 (20 x 50)



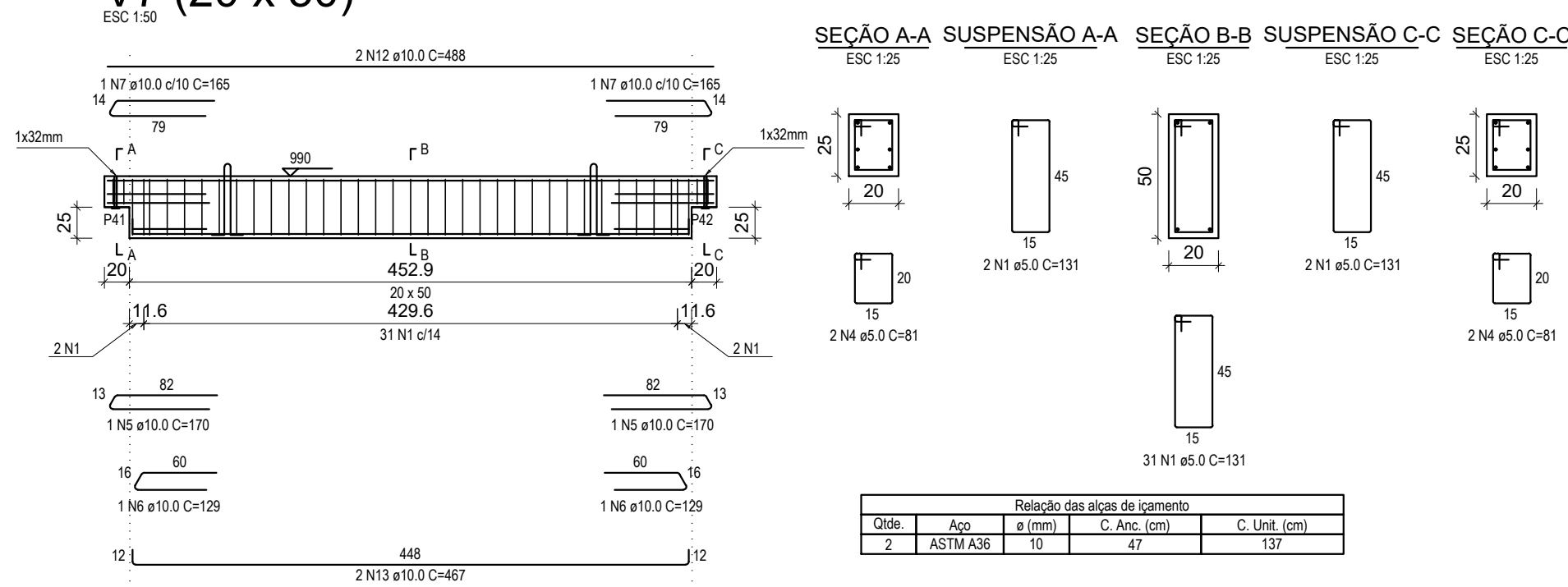
V5 (20 x 50)



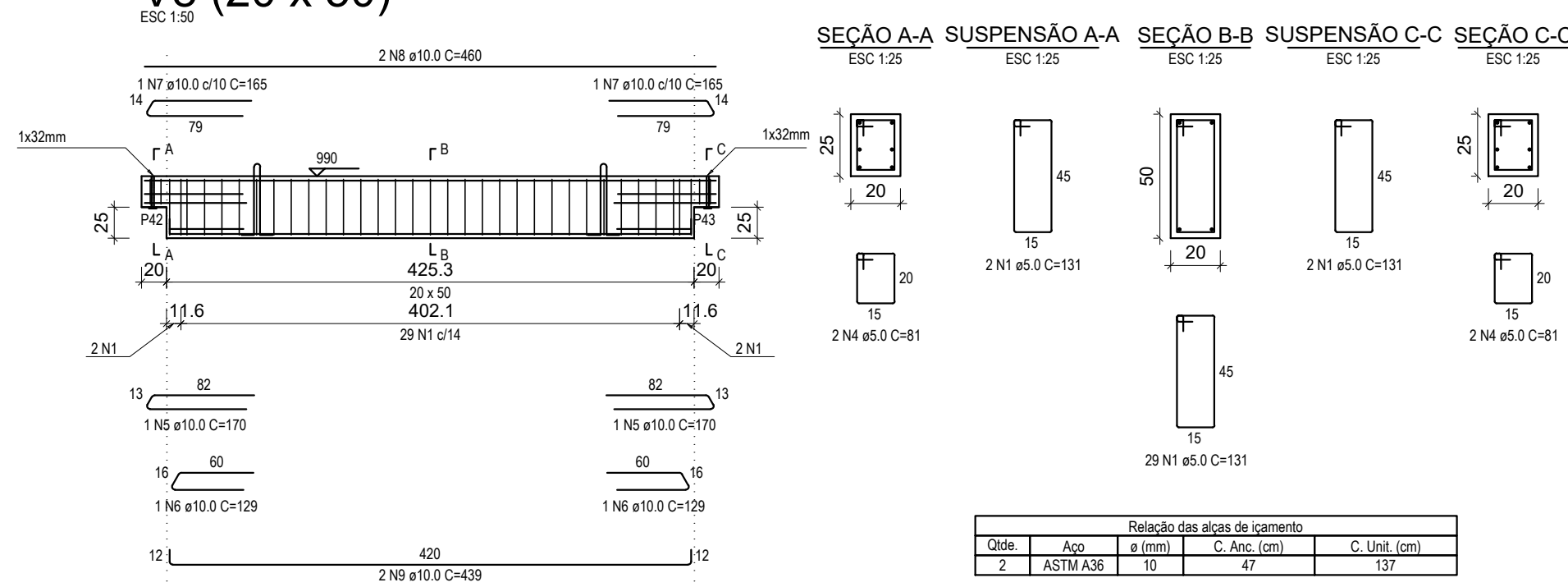
V6 (20 x 50)



V7 (20 x 50)



V8 (20 x 50)



RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	276	131	36156
	2	5.0	4	87	348
CA50	3	5.0	8	81	648
	4	5.0	16	81	1296
	5	10.0	10	170	1700
	6	10.0	16	129	2064
	7	10.0	16	165	2640
	8	10.0	4	460	1840
	9	10.0	4	439	1756
	10	10.0	4	83	332
	11	10.0	2	164	328
	12	10.0	12	488	5856
	13	10.0	12	467	5604
	14	10.0	4	170	680

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	228	154.6
CA60	5.0	384.5	65.2
PESO TOTAL (kg)			
CA50	154.6		
CA60	65.2		

Volume de concreto (C-40) = 3.73 m³

PROJETO ESTRUTURAL

Halla | arquitetura
Avenida Sete de Setembro, 50, Comercial C. Berri
Sala 09 | Centro | Timbó | Santa Catarina

☎ 3333 1815 - ☎ 99214 4008
studiohalla3d@gmail.com
www.hallarq.com

CONSTRUÇÃO INSTITUCIONAL EM ALVENARIA - GINÁSIO ESCOLAR
Rodovia Estadual - SC, 416 - São Roque
Timbó - SC

Autor do Projeto: Anderson Halla
Arquiteto e Urbanista - CAU nº 176063-7

Assinatura:

Proprietário: Fundo Municipal de Educação - FMDE de Timbó
CNPJ: 32.257.384/0001-19

Assinatura:

Escala: Indicada **Revisão:** 00 **Data:** Maio 2020

Especificação: VIGAS TOPO V1-V8

Prancha: **E** 39