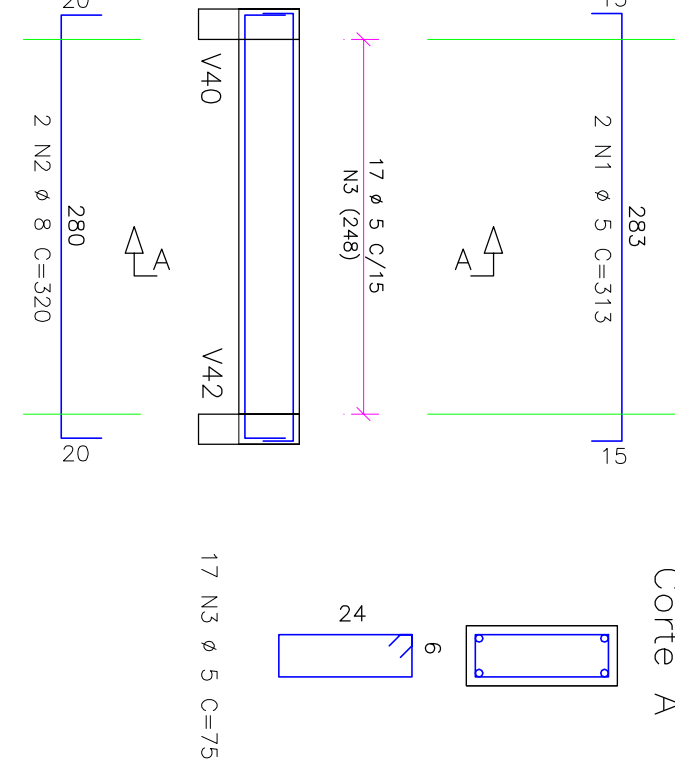
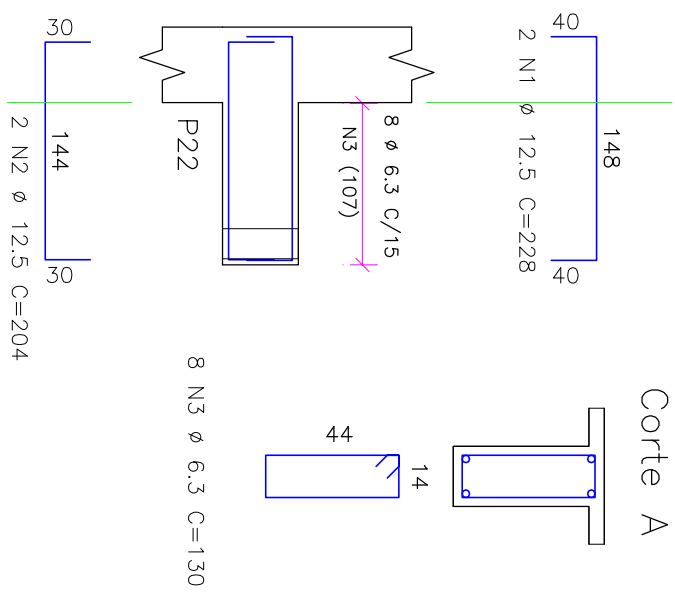
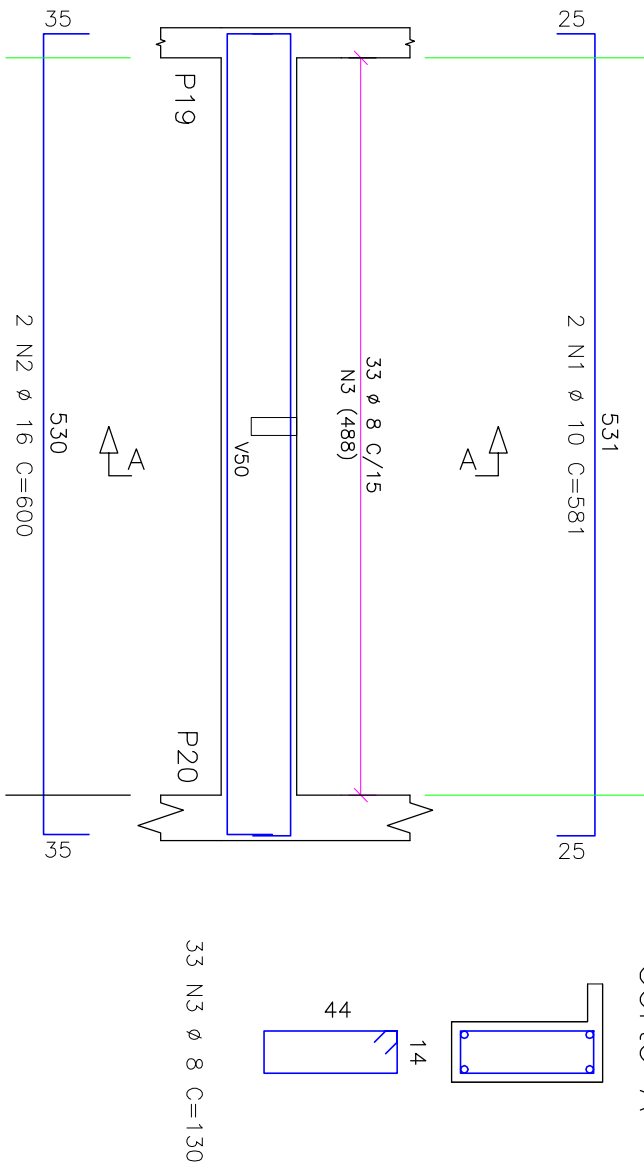
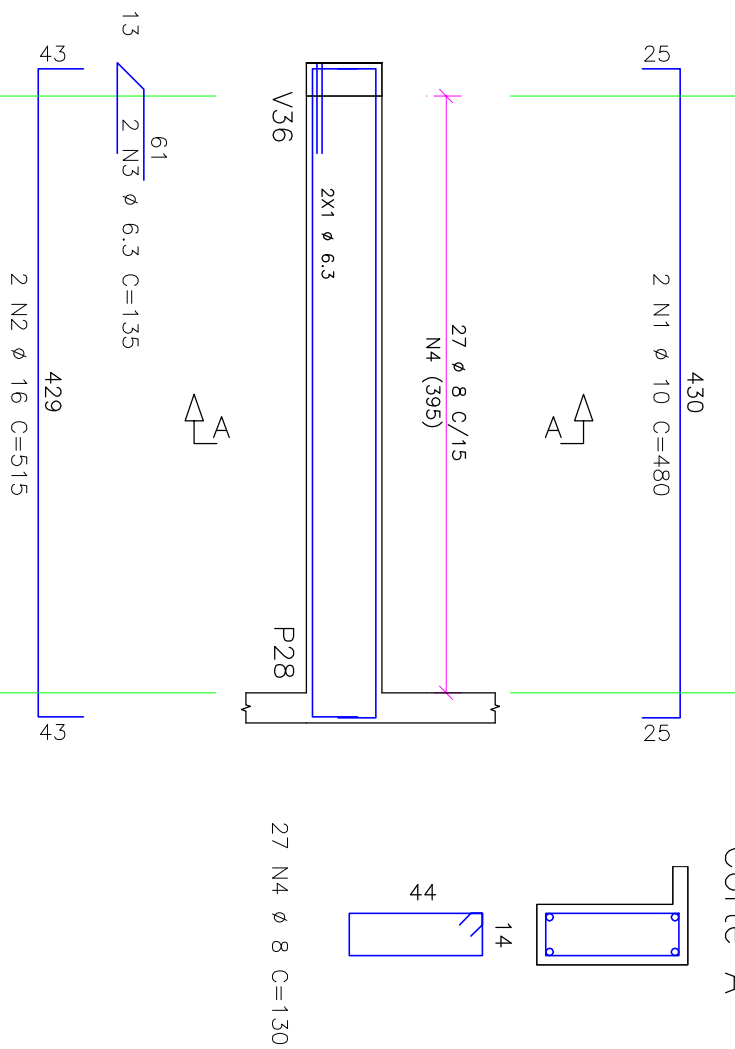
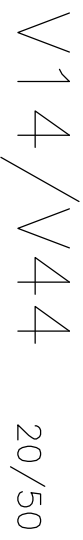
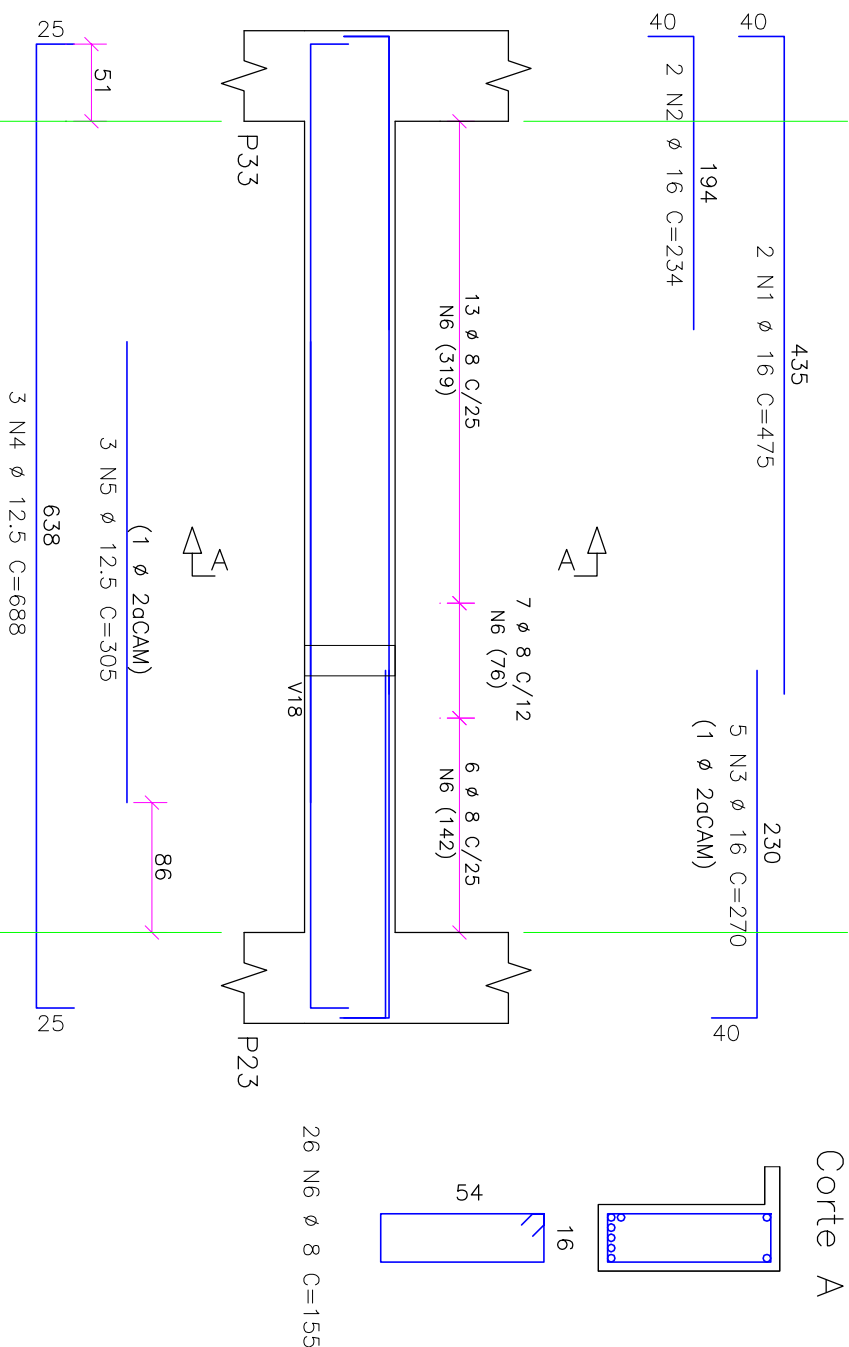
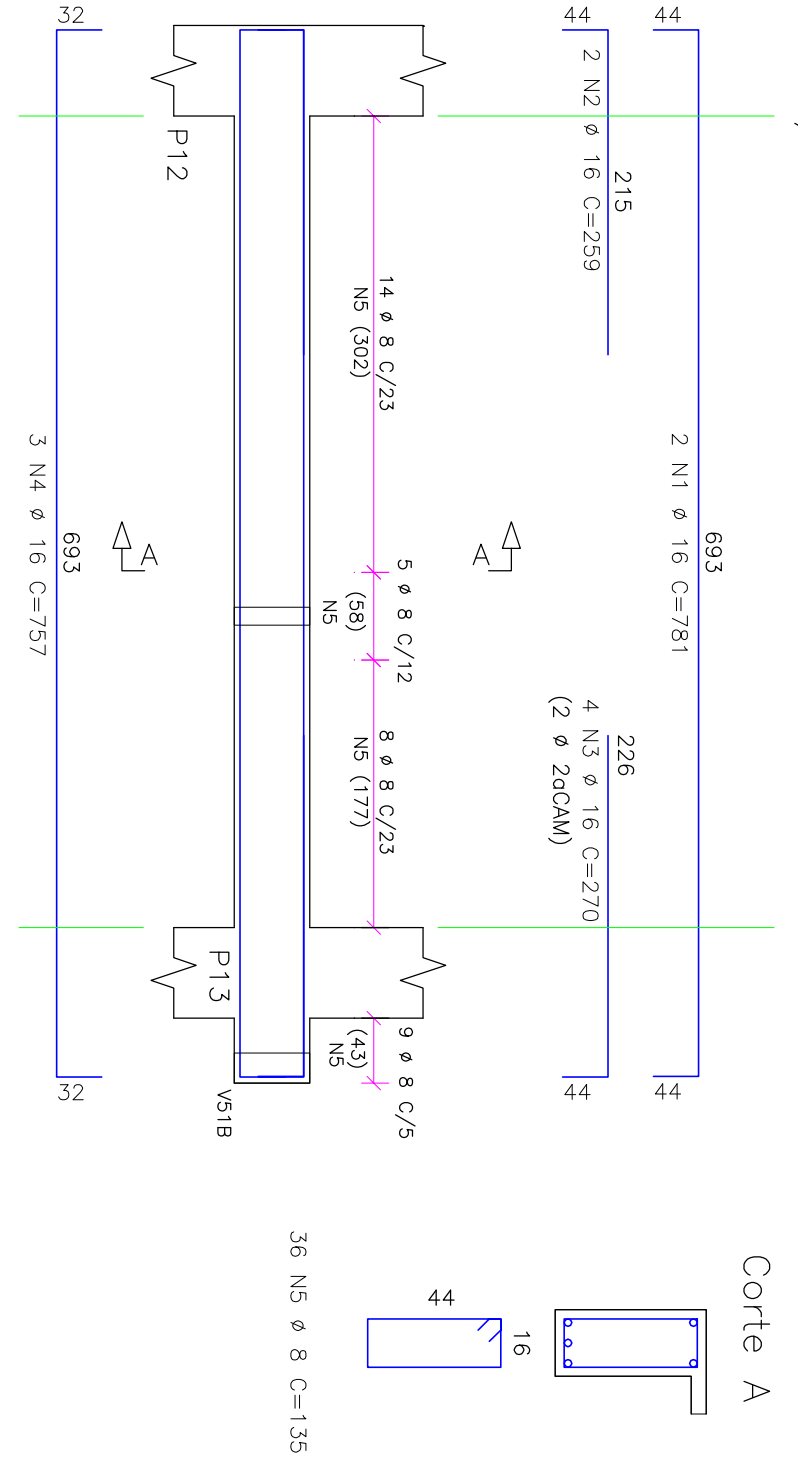
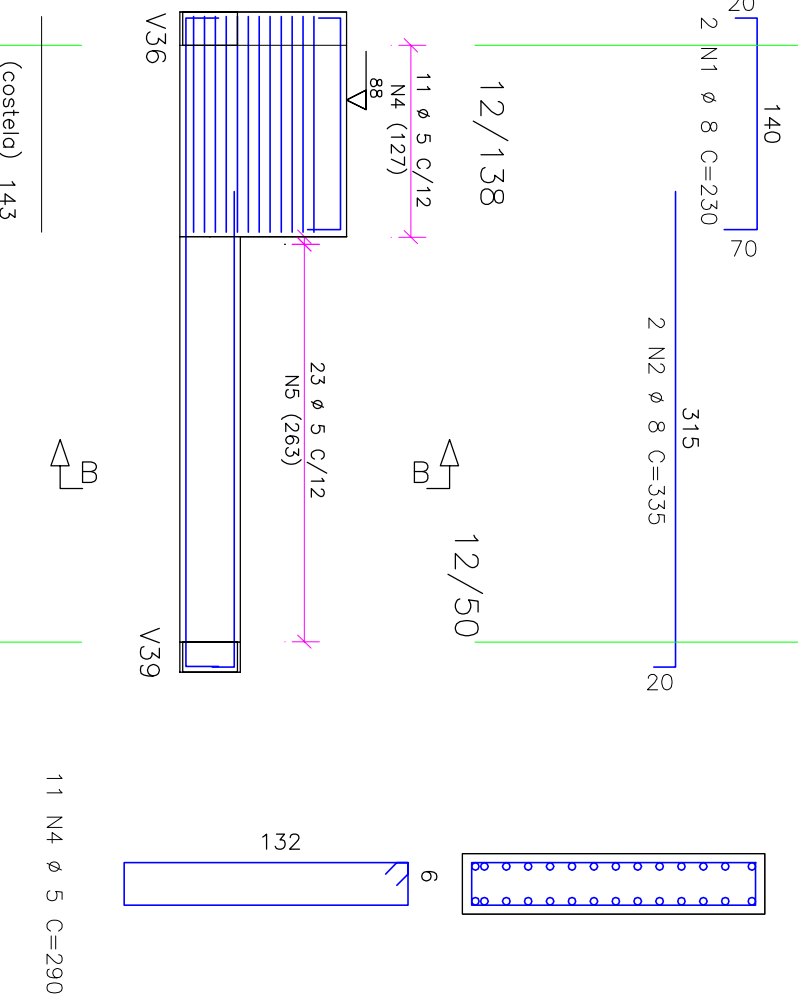
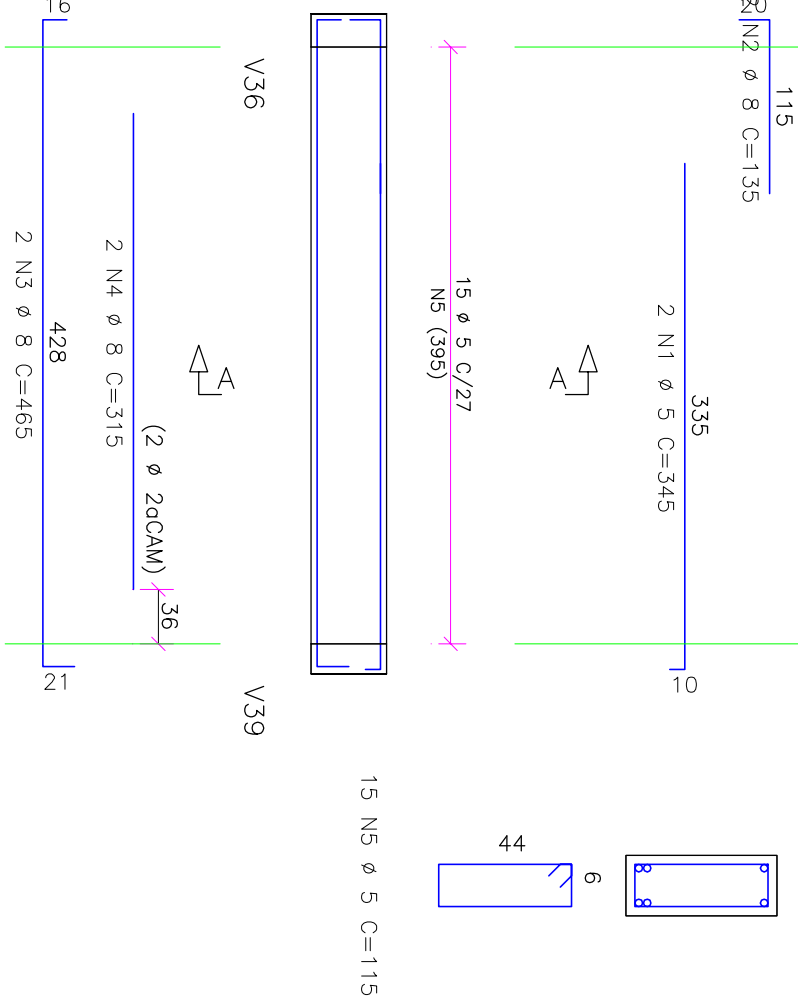
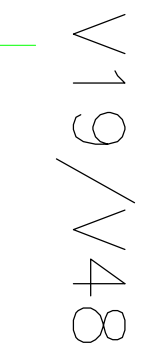
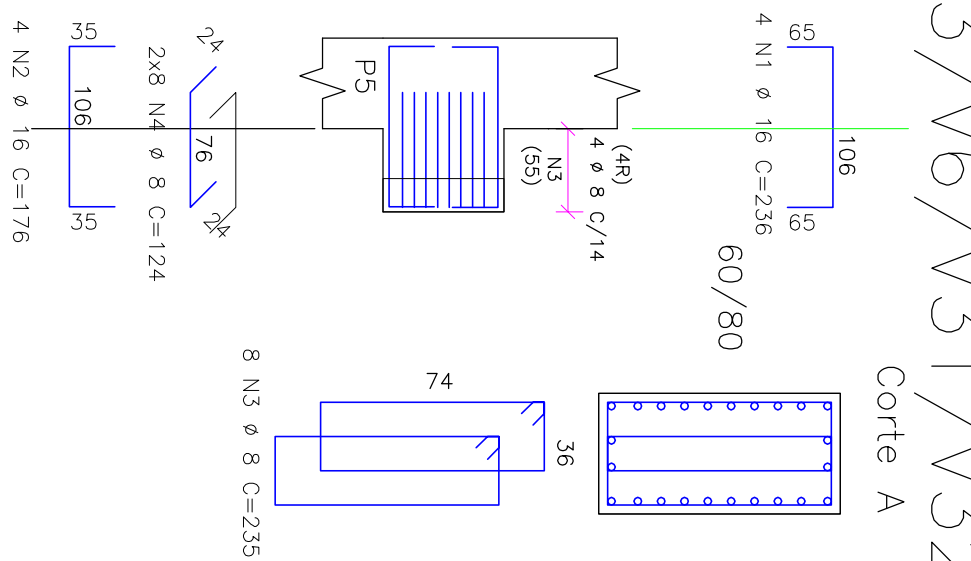
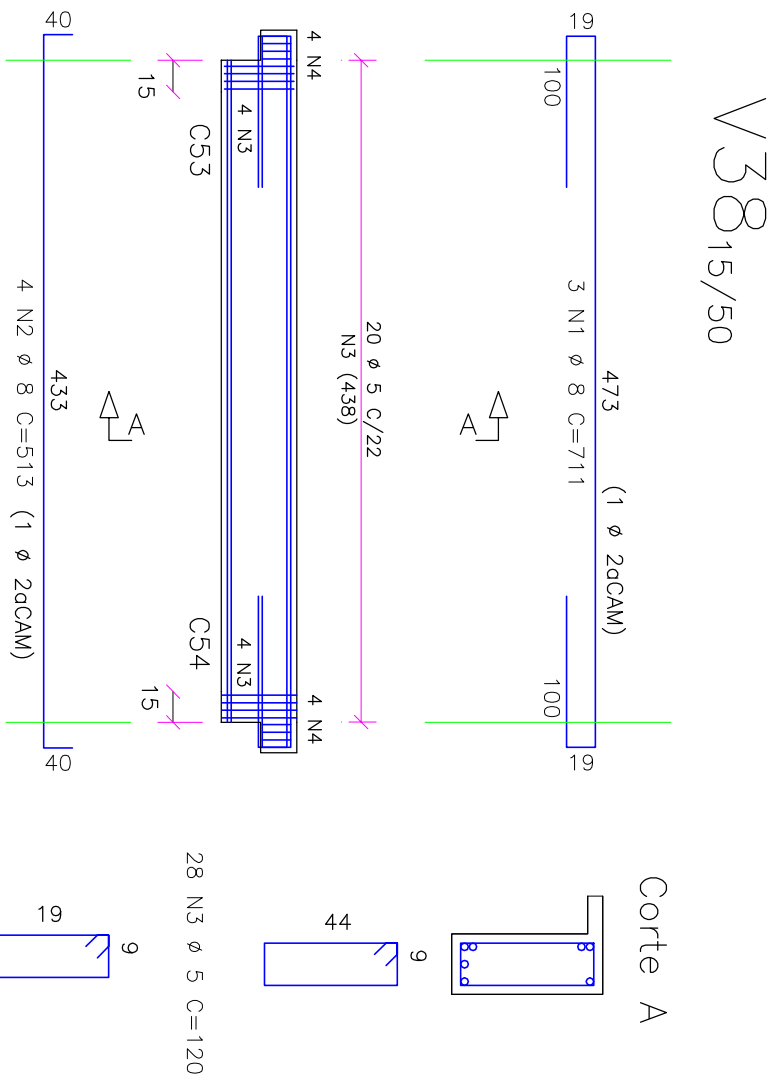
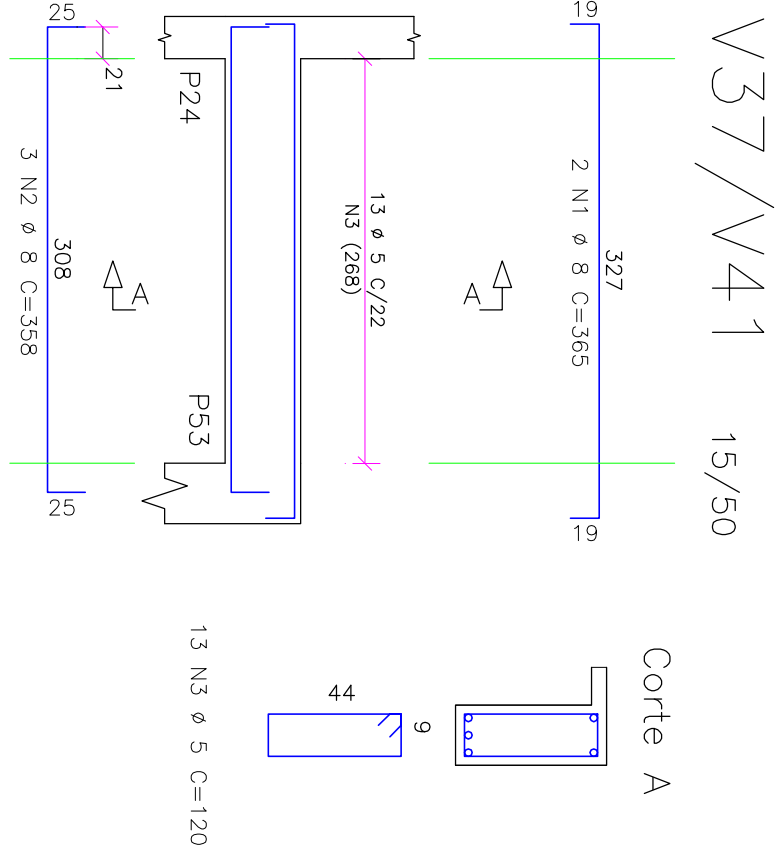
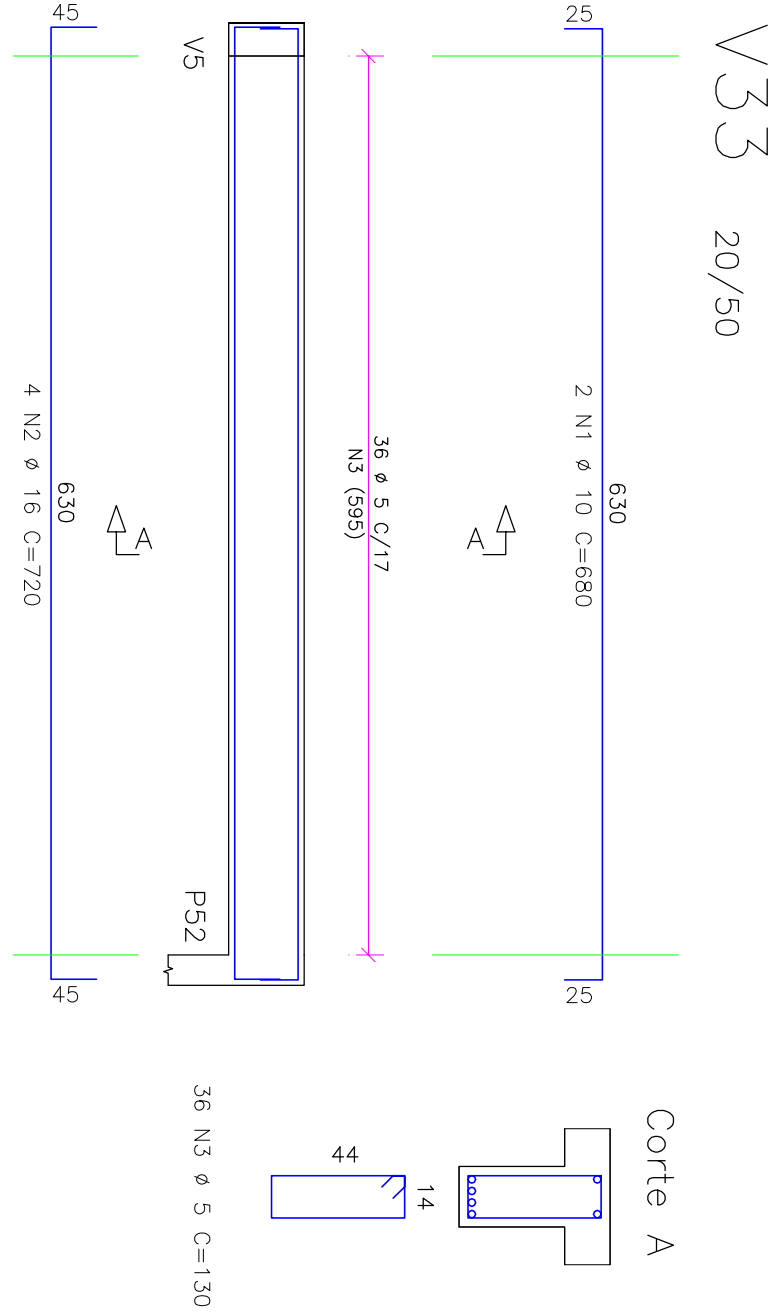




AÇO	POS	BIT	QUANT	COMPRIMENTO
(mm)		(mm)		UNIT TOTAL (cm)
V2/V3/V6/V31/V32/V35	(X6)	24	236	5664
50	1	16	176	4224
50	2	18	24	48
50	4	8	96	11904
V7/V36	(X2)	16	781	3124
50	1	16	781	3124
50	3	16	279	2160
50	4	16	757	4542
50	5	8	135	9720
V12/V42	(X2)	1	1531	2332
50	2	16	600	2400
50	3	8	66	8580
V14/V44	(X2)	1	228	812
50	1	12.5	4	244
50	3	6.3	16	130
V19				
50	1	5	345	690
50	3	8	445	930
50	4	8	315	630
50	5	15	115	1725
V20/V50	(X2)	1	313	1252
60	2	8	320	1280
60	3	5	34	75
60	4	4	2550	
V33				
50	1	10	2	680
50	2	11	720	1360
50	3	5	36	130
V5/V34	(X2)	1	475	1900
50	1	16	4	276
50	3	16	10	2705
50	4	12.5	6	688
50	5	12.5	305	1830
50	6	8	52	195
V37/V41	(X2)	1	365	1460
50	1	8	4	358
50	2	8	6	2148
50	3	5	26	120
50	4	3	3120	
V38				
50	1	8	711	2133
50	2	8	28	120
50	3	5	513	2052
50	4	5	20	70
50	5	4	135	540
V35B/V51B	(X2)	1	480	1920
50	1	10	4	515
50	2	16	4	2060
50	3	6.3	54	130
50	4	4	7020	
V19/V48	(X2)	1	230	920
50	1	8	4	335
50	2	8	4	1340
50	3	16	4	515
50	4	16	4	2060
50	5	5	34	115
50	6	5	48	143
60	5	5	48	6864

RESUMO AÇO CA 50-60			
AÇO	BIT	COMPR	PESO
(mm)	(mm)	(kg)	
60	5	358	57
50	8	244	332
50	8.3	697	279
50	10	56	35
50	12.5	357	577
50	16		
Peso Total	60	=	57 kg
			969 kg



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www.quetropjetos.com

PROJETO EXECUTIVO

PROJETO DE ESTRUTURA DE CONCRETO ARMADO

Proprietário: UNIRIO - UNIVERSIDADE FEDERAL DO ESTADO DO RIO DE JANEIRO

Local: AV. PAULSTER 458, URCA, RIO DE JANEIRO/RJ

Autor do Projeto:

LUCIO ROBERTO DE ALMEIDA

Engenheiro CIVIL/ Data 27/07/07 MT

Co-autores do Projeto:

ANDRÉ LUIZ S RAMOS

Engenheiro CIVIL/ Data 28/06/07 MT

MÁRIO ANDRÉ DE AMORIM PALMA

Engenheiro CIVIL/ Data 12/05/777

Responsável

Técnico:

Assunto: ARMAÇÃO DAS VIGAS/PAVIMENTO V2, V3, V5, V6, V7, V12, V14, V19, V20, V23B, V31, V32, V34, V35, V36, V37, V38, V41, V42, V44, V48, V50, V51B, V55, V57, V58, V61, V62, V63, V64, V65, V66, V67, V68, V69, V70, V71, V72, V73, V74, V75, V76, V77, V78, V79, V80, V81, V82, V83, V84, V85, V86, V87, V88, V89, V90, V91, V92, V93, V94, V95, V96, V97, V98, V99, V100, V101, V102, V103, V104, V105, V106, V107, V108, V109, V110, V111, V112, V113, V114, V115, V116, V117, V118, V119, V120, V121, V122, V123, V124, V125, V126, V127, V128, V129, V130, V131, V132, V133, V134, V135, V136, V137, V138, V139, V140, V141, V142, V143, V144, V145, V146, V147, V148, V149, V150, V151, V152, V153, V154, V155, V156, V157, V158, V159, V160, V161, V162, V163, V164, V165, V166, V167, V168, V169, V170, V171, V172, V173, V174, V175, V176, V177, V178, V179, V180, V181, V182, V183, V184, V185, V186, V187, V188, V189, V190, V191, V192, V193, V194, V195, V196, V197, V198, V199, V200, V201, V202, V203, V204, V205, V206, 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