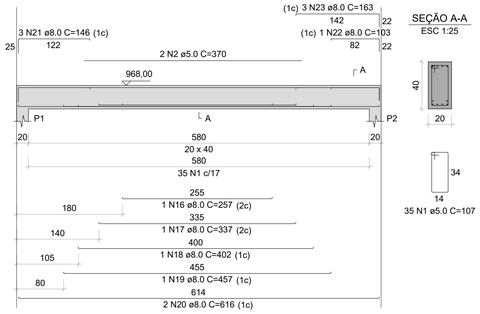
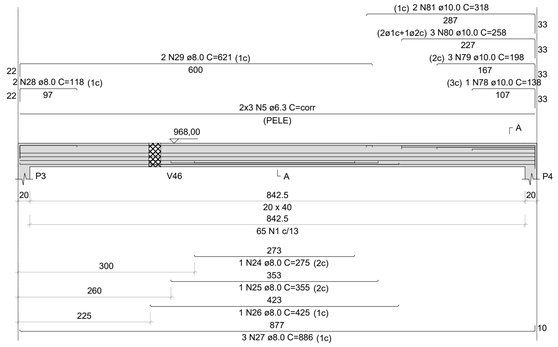
V1
ESC 1:50

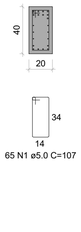


SEÇÃO A-A
ESC 1:25

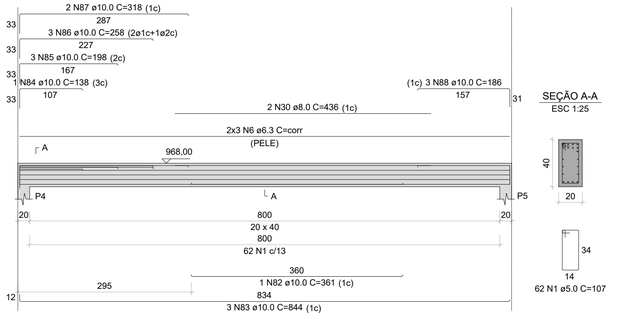
V2
ESC 1:50



SEÇÃO A-A
ESC 1:25



V3
ESC 1:50



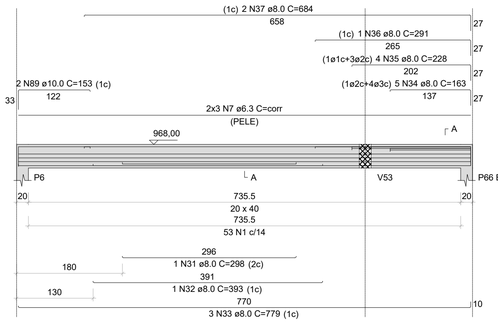
SEÇÃO A-A
ESC 1:25

RELAÇÃO DO AÇO

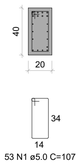
V1 V2 V3
V4 V5 V6
V7 V8 V9
V10 V11 V12
V13

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	650	107	69550
	2	5.0	2	370	740
	3	5.0	2	243	486
	4	5.0	2	168	336
CA50	5	6.3	6	corr	5262
	6	6.3	6	corr	5004
	7	6.3	6	corr	4620
	8	6.3	6	corr	4992
	9	6.3	6	corr	3714
	10	6.3	6	corr	2022
	11	6.3	6	corr	4920
	12	6.3	6	corr	3162
	13	6.3	6	corr	2982
	14	6.3	6	corr	3492
	15	6.3	6	corr	5022
	16	8.0	2	257	514
	17	8.0	1	337	337
	18	8.0	1	402	402
	19	8.0	1	457	457
	20	8.0	2	616	1232
	21	8.0	3	146	438
	22	8.0	1	103	103
	23	8.0	3	163	489
	24	8.0	1	275	275
	25	8.0	1	355	355
	26	8.0	1	425	425
	27	8.0	3	886	2658
	28	8.0	2	118	236
	29	8.0	2	621	1242
	30	8.0	2	436	872
	31	8.0	1	298	298
	32	8.0	1	393	393
	33	8.0	3	779	2337
	34	8.0	8	163	1304
	35	8.0	4	228	912
	36	8.0	1	291	291
	37	8.0	2	684	1368
	38	8.0	2	363	726
	39	8.0	2	628	1256
	40	8.0	1	108	108
	41	8.0	1	188	188
	42	8.0	2	428	856
	43	8.0	1	165	165
	44	8.0	2	339	678
	45	8.0	2	146	292
	46	8.0	1	106	106
	47	8.0	2	383	766
	48	8.0	1	90	90
	49	8.0	1	240	240
	50	8.0	1	310	310
	51	8.0	2	847	1694
	52	8.0	8	157	1256
	53	8.0	2	217	434
	54	8.0	2	400	800
	55	8.0	1	245	245
	56	8.0	2	536	1072
	57	8.0	2	420	840
	58	8.0	1	185	185
	59	8.0	2	499	998
	60	8.0	2	148	296
	61	8.0	2	147	294
	62	8.0	2	546	1092
	63	8.0	1	270	270
	64	8.0	2	584	1168
	65	8.0	2	146	292
	66	8.0	2	459	918
	67	8.0	1	255	255
	68	8.0	1	220	220
	69	8.0	2	921	1842
	70	8.0	3	137	411
	71	8.0	3	117	351
	72	8.0	1	190	190
	73	8.0	1	260	260
	74	8.0	1	117	117
	75	8.0	2	839	1678
	76	8.0	2	197	394
	77	8.0	2	885	1770
	78	10.0	1	138	138
	79	10.0	3	198	594
	80	10.0	3	258	774
	81	10.0	2	318	636
	82	10.0	1	361	361
	83	10.0	3	844	2532
	84	10.0	1	138	138
	85	10.0	3	198	594
	86	10.0	3	258	774
	87	10.0	2	318	636
	88	10.0	3	186	558
	89	10.0	2	153	306
	90	10.0	2	158	316
	91	10.0	3	238	714
	92	10.0	2	298	596
	93	10.0	2	173	346
	94	10.0	2	218	436
	95	10.0	2	278	556
	96	10.0	1	201	201
	97	10.0	1	276	276
	98	10.0	2	487	974
	99	10.0	1	136	136
	100	10.0	2	186	372
	101	10.0	1	211	211
	102	10.0	2	336	672
	103	12.5	2	844	1688
	104	12.5	2	180	360
	105	16.0	2	276	552

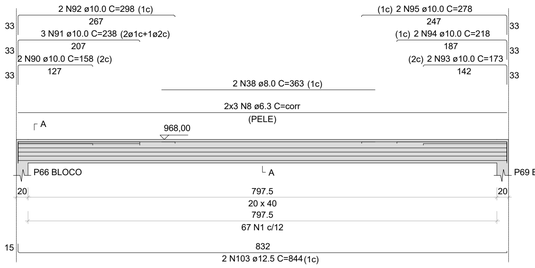
V4
ESC 1:50



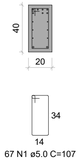
SEÇÃO A-A
ESC 1:25



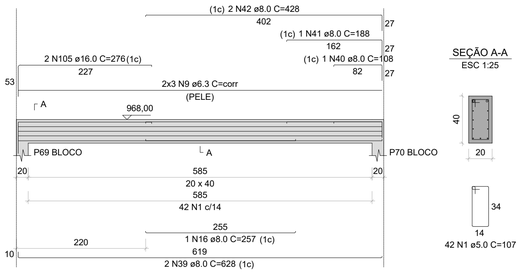
V5
ESC 1:50



SEÇÃO A-A
ESC 1:25

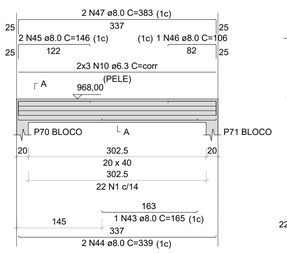


V6
ESC 1:50

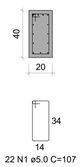


SEÇÃO A-A
ESC 1:25

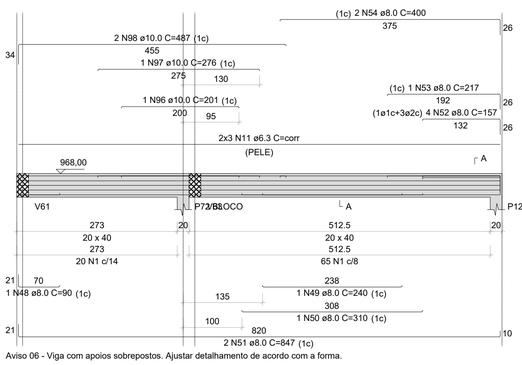
V7
ESC 1:50



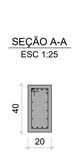
SEÇÃO A-A
ESC 1:25



V8
ESC 1:50

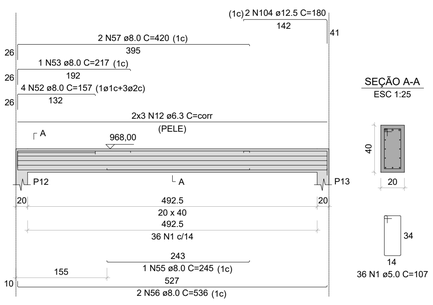


SEÇÃO A-A
ESC 1:25



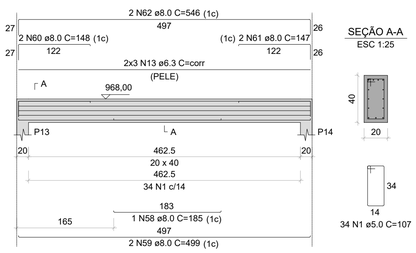
Aviso 06 - Viga com apoios sobrepostos. Ajustar detalhamento de acordo com a forma.

V9
ESC 1:50



SEÇÃO A-A
ESC 1:25

V10
ESC 1:50



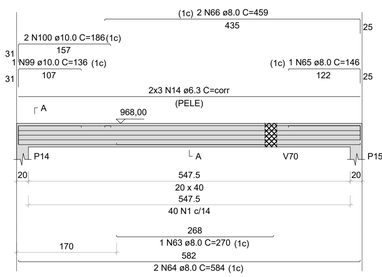
SEÇÃO A-A
ESC 1:25

RESUMO DO AÇO

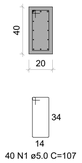
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	451.9	121.6
	8.0	420.6	182.6
	10.0	138.5	93.9
	12.5	20.5	21.7
	16.0	5.5	9.6
CA60	5.0	711.1	120.6
PESO TOTAL (kg)			
CA50	429.4		
CA60	120.6		

Volume de concreto fck 3,0kN/cm² (C-30) = 6.86 m³
Área de forma = 63.31 m²

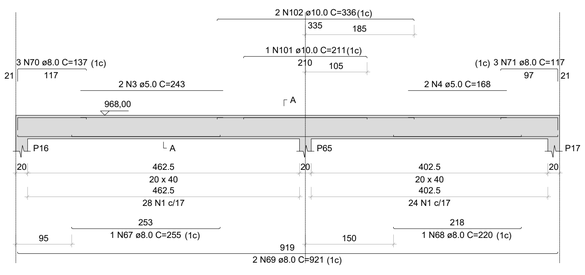
V11
ESC 1:50



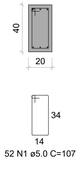
SEÇÃO A-A
ESC 1:25



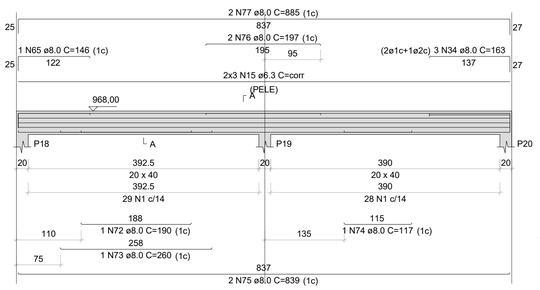
V12
ESC 1:50



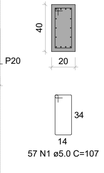
SEÇÃO A-A
ESC 1:25



V13
ESC 1:50



SEÇÃO A-A
ESC 1:25



06	21/11/22	REVISÃO CONFORME NOTA TÉCNICA	ATACIZIO
REVISÃO	DATA	DESCRIÇÃO	RESP.

EMPRESA
MARKA ARQUITETURA E ENGENHARIA LTDA
RUA PROFESSOR ABEYLARD, 279, SALA 9
CENTRO, SETE LAGOAS/MG
apoio@markaprojetos.com.br
(31) 3177-4235
www.markaprojetos.com.br

ESPECIALIDADE: ESTRUTURAL
FASE DO PROJETO: EXECUTIVO

EMPREENDIMENTO – OBRA
ESCOLA MUNICIPAL BELVEDERDE
RUA JOSÉ COELHO, RUA CANADÁ E RUA SÉRGIO JACOWLEVSKI
B. SIDERÚRGICO – CONSELHEIRO LAFAIETE/MG

RESPONSÁVEL PROJETO: JOSÉ ATACIZIO DA FÉ
ENG.CIVIL CREA/MG 87.669/D
COORDENADOR PROJETO: KARINE NARDY
PROJETISTA: JOSÉ ATACIZIO DA FÉ

ASSUNTO
PROJETO DE ESTRUTURAS DE CONCRETO
ARMAÇÃO DAS VIGAS–BLOCO 01

ESCALA: INDICADA
DATA: 21/11/22
ARQUIVO
Nº FOLHA: 14

064-EST-BLOCO 01-BELVEDERE-R06

FORMATO A1 - PADRÃO ABNT - (841 x 594mm)