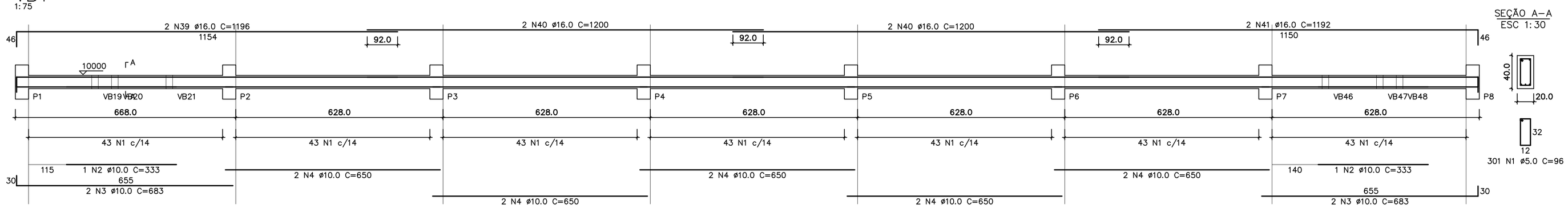
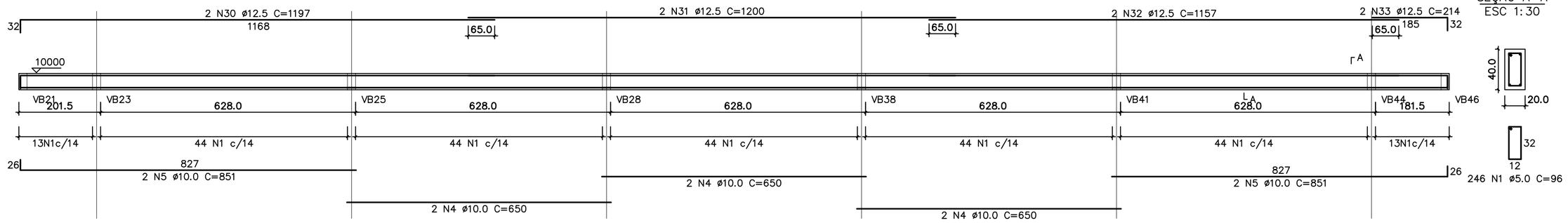
VB1
1:75



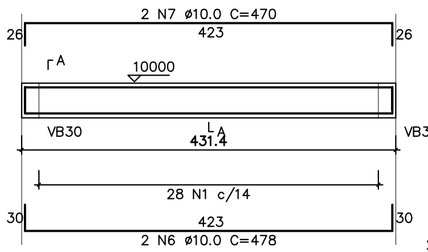
SEÇÃO A–A
ESC 1:30

VB2
1:75

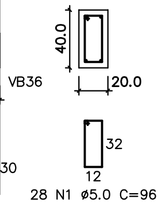


SEÇÃO A–A
ESC 1:30

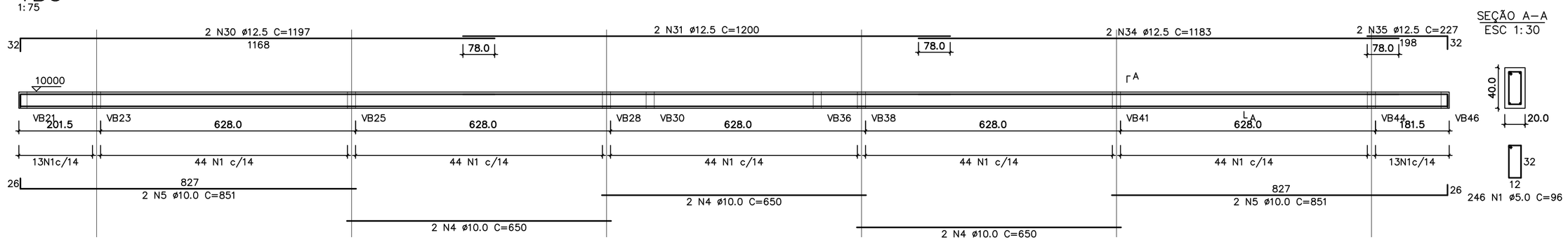
VB3A
1:50



SEÇÃO A–A
ESC 1:30

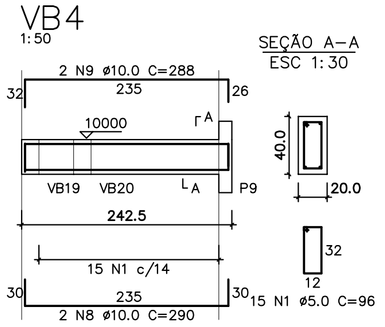


VB3
1:75



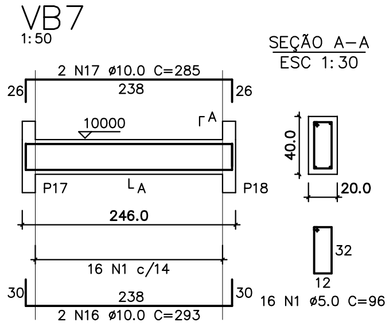
SEÇÃO A–A
ESC 1:30

VB4
1:50



SEÇÃO A–A
ESC 1:30

VB7
1:50



SEÇÃO A–A
ESC 1:30

RELAÇÃO DO AÇO

VB1	VB2	VB3
VB3A	VB4	VB5
VB6	VB7	VB8
VB10	VB11	VB12
VB13	VB14	VB15
VB18	VB19	VB20
VB21		

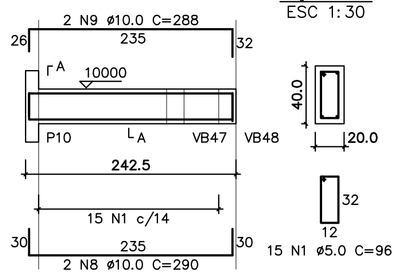
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
60	1	5.0	1374	96	131904
50	2	10.0	2	333	666
	3	10.0	4	683	2732
	4	10.0	28	650	18200
	5	10.0	8	851	6808
	6	10.0	2	478	956
	7	10.0	2	470	940
	8	10.0	4	290	1160
	9	10.0	4	288	1152
	10	10.0	4	855	3420
	11	10.0	1	378	378
	12	10.0	2	1198	2396
	13	10.0	2	1200	2400
	14	10.0	2	1149	2298
	15	10.0	2	208	416
	16	10.0	4	293	1172
	17	10.0	4	285	1140
	18	10.0	4	547	2188
	19	10.0	4	539	2156
	20	10.0	4	516	2064
	21	10.0	2	242	484
	22	10.0	2	234	468
	23	10.0	2	577	1154
	24	10.0	2	340	680
	25	10.0	2	338	676
	26	10.0	2	262	524
	27	10.0	2	260	520
	28	10.0	2	272	544
	29	10.0	2	284	568
	30	12.5	4	1197	4788
	31	12.5	4	1200	4800
	32	12.5	2	1157	2314
	33	12.5	2	214	428
	34	12.5	2	1183	2366
	35	12.5	2	227	454
	36	12.5	2	343	686
	37	12.5	4	523	2092
	38	12.5	2	591	1182
	39	16.0	2	1196	2392
	40	16.0	4	1200	4800
	41	16.0	2	1192	2384
	42	16.0	2	360	720

RESUMO DO AÇO

AÇO	DIAM	C.TOTAL (m)	PESO+10% (kg)
CA50	10.0	582.8	395.3
	12.5	191.1	202.7
	16.0	103.0	178.9
CA60	5.0	1325.8	224.6
PESO TOTAL			
CA50	776.9		
CA60	224.6		

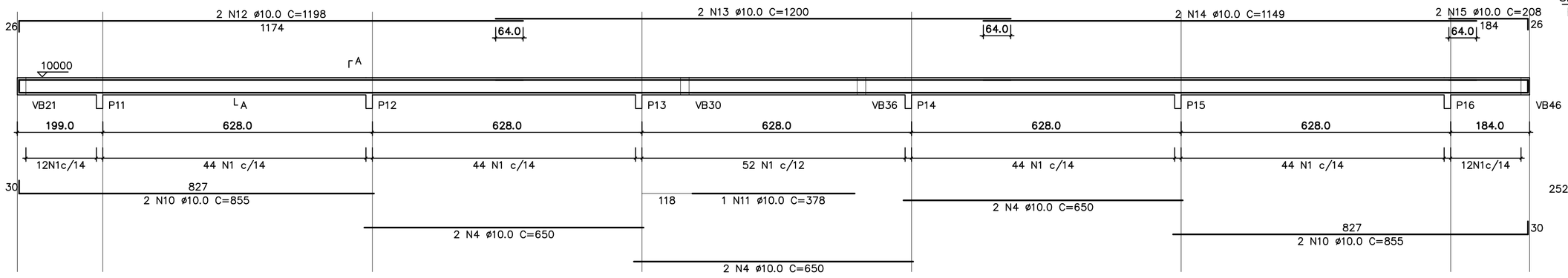
Vol. concreto total = 16.12 m³
Área de forma total = 201.47 m²
fck = 300.00 kgf/cm²

VB5
1:50

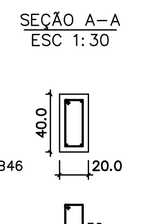


SEÇÃO A–A
ESC 1:30

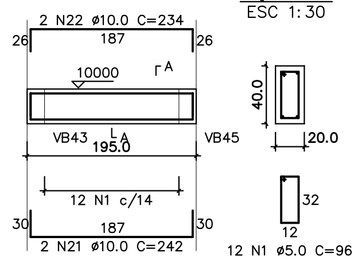
VB6
1:75



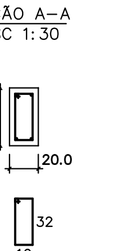
SEÇÃO A–A
ESC 1:30



VB14
1:50



SEÇÃO A–A
ESC 1:30



VB8
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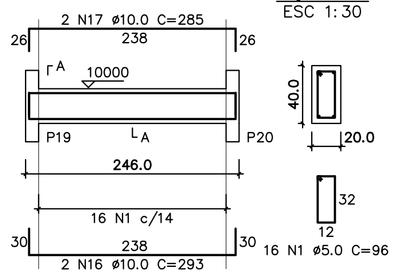
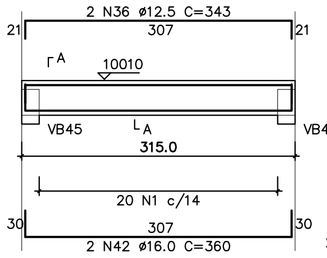


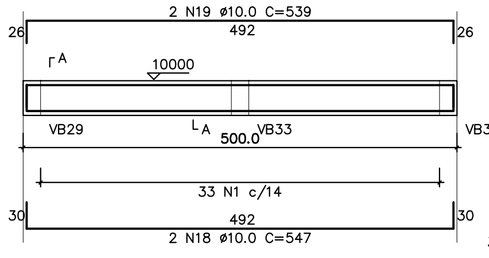
SEÇÃO A–A
ESC 1:30

VB10
1:50

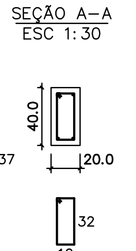


SEÇÃO A–A
ESC 1:30

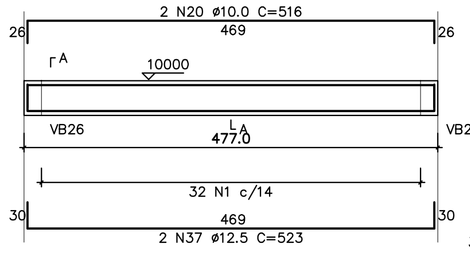
VB11
1:50



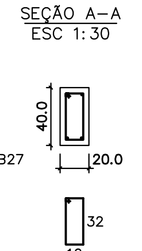
SEÇÃO A–A
ESC 1:30



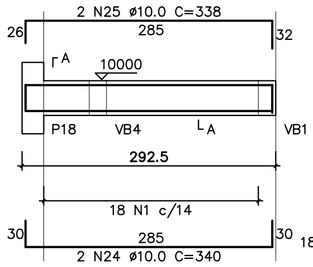
VB12
1:50



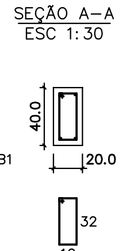
SEÇÃO A–A
ESC 1:30



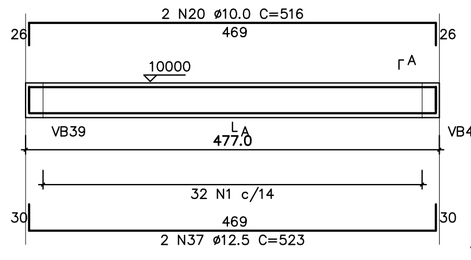
VB19
1:50



SEÇÃO A–A
ESC 1:30

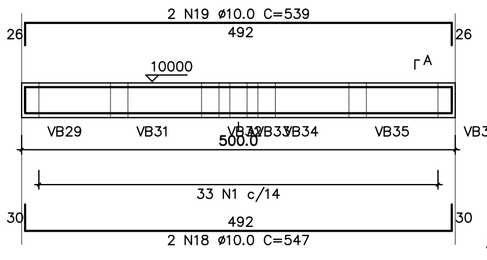


VB13
1:50



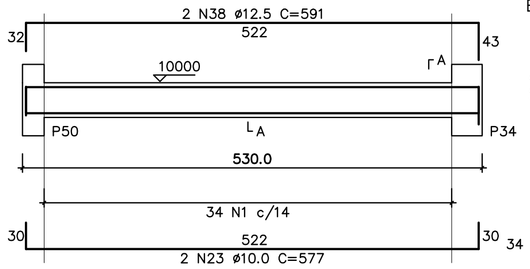
SEÇÃO A–A
ESC 1:30

VB15
1:50

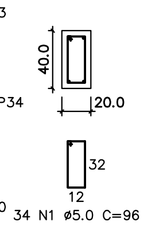


SEÇÃO A–A
ESC 1:30

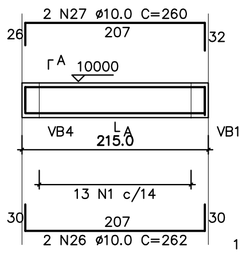
VB18
1:50



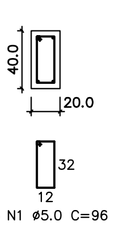
SEÇÃO A–A
ESC 1:30



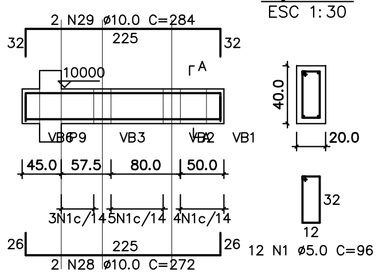
VB20
1:50



SEÇÃO A–A
ESC 1:30



VB21
1:50



SEÇÃO A–A
ESC 1:30

REV	DATA	RESP.	DESCRIÇÃO	FASE DO PROJETO
1				ASBUILT
1	28/11/2013	PAULO	EMISSÃO INICIAL	EXECUTIVO ■
1				COMENTADO
1				BÁSICO

Ministério do Esporte
GOVERNO FEDERAL BRASIL PAÍS RICO É PAÍS SEM POBREZA

TITULO: **CIE - CENTRO DE INICIAÇÃO AO ESPORTE**

PROJETO:

MODALIDADE: ESTRUTURA DE CONCRETO - PROJETO EXECUTIVO

ESPECIALIDADE: GINÁSIO CIE:S40-45 - ARMADURA, VIGAS E BALDRAMES

AUTOR DO PROJETO:
ENG. PAULO SERGIO BATISTA PEREIRA
CREA: 060085974 9SP - ART: 92221220140569811

VERIFICAÇÃO/DATA	EMISSÃO INICIAL	FOLHA	ÁREA
	28/11/13	006/016	IMPLANTAÇÃO MÓD. 1,2 e 3
ESCALA		IDENTIFICAÇÃO/ARQUIVO	
CIE-28/11/13	INDICADA	CIE-S40-45-ESC-EX-4005-R00.dwg	

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