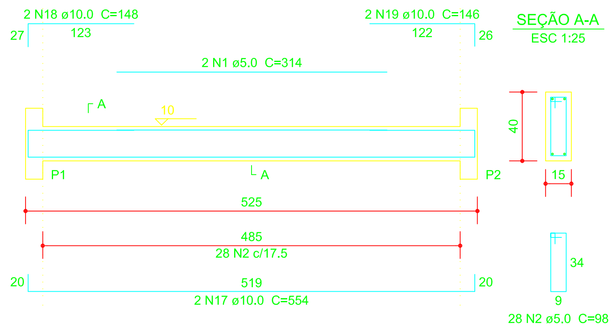
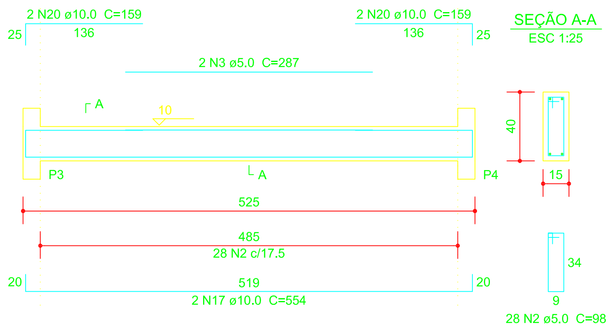
C1 (15/40)

ESC 1:50



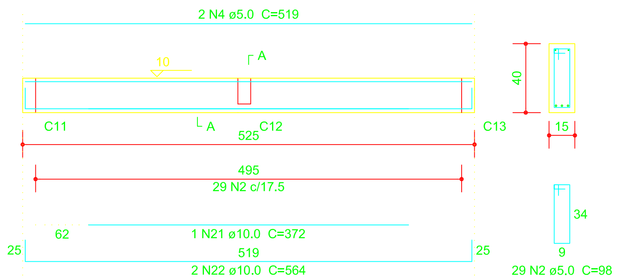
C2 (15/40)

ESC 1:50



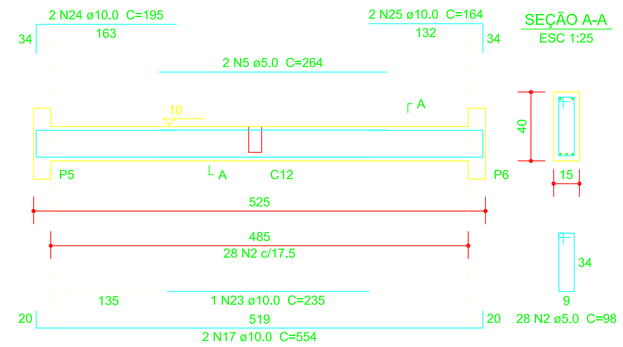
C3 (15/40)

ESC 1:50



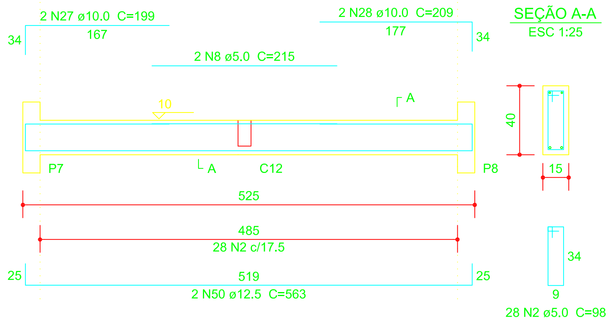
C4 (15/40)

ESC 1:50



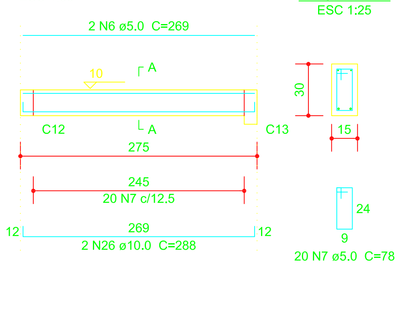
C6 (15/40)

ESC 1:50



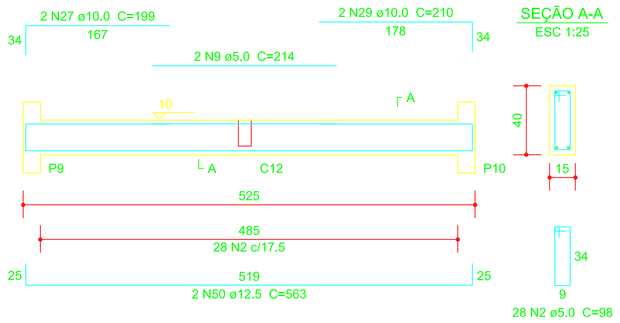
C7 (15/30)

ESC 1:50



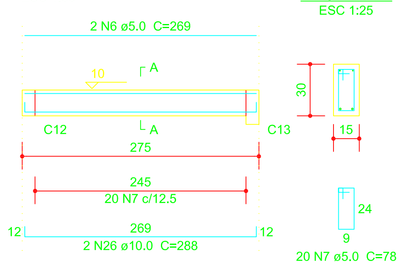
C8 (15/40)

ESC 1:50



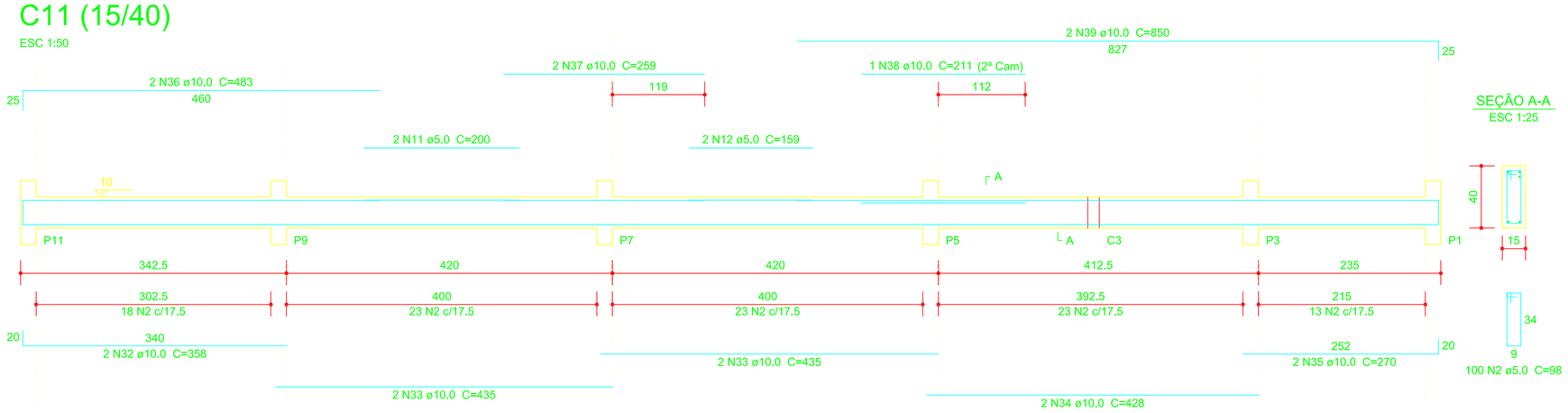
C5 (15/30)

ESC 1:50



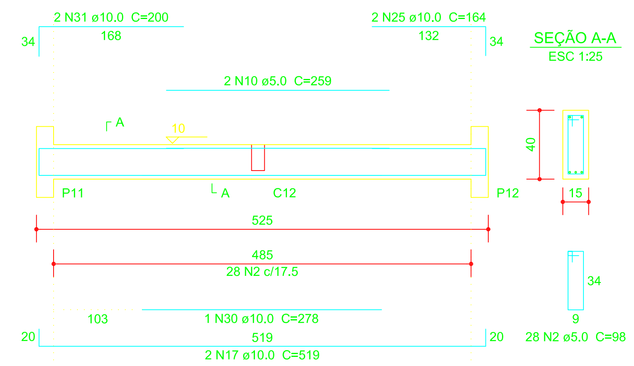
C11 (15/40)

ESC 1:50



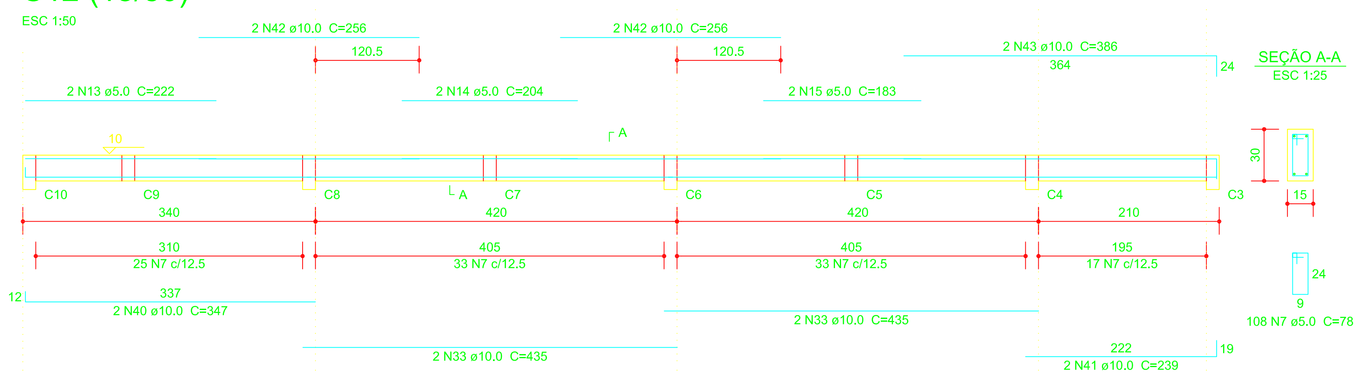
C10 (15/40)

ESC 1:50



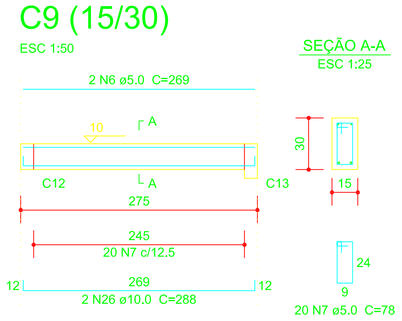
C12 (15/30)

ESC 1:50



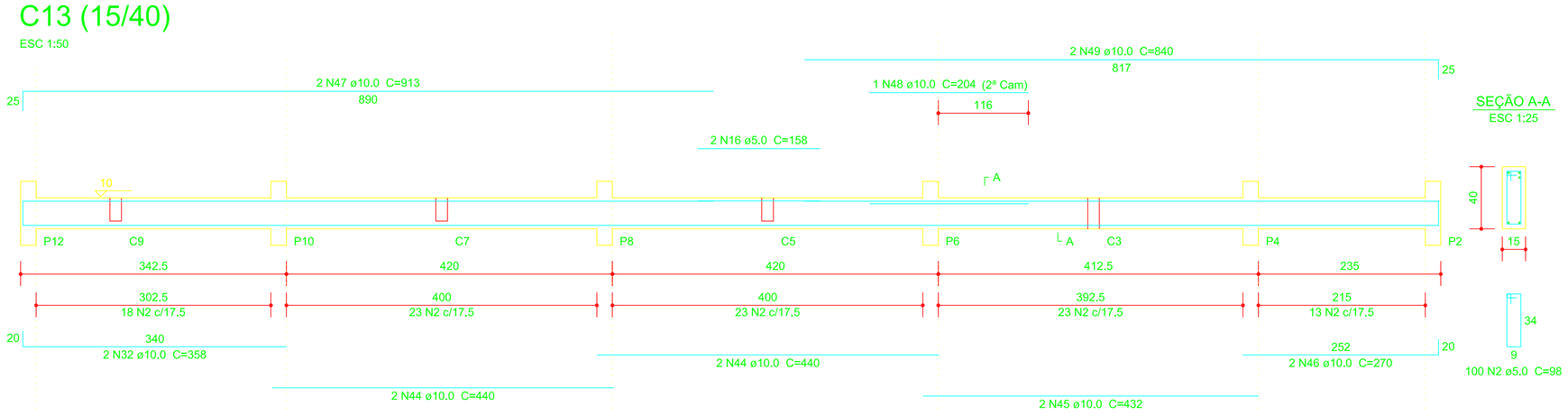
C9 (15/30)

ESC 1:50



C13 (15/40)

ESC 1:50



Relação do aço

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	2	314	628
	2	5.0	397	98	38906
	3	5.0	2	287	574
	4	5.0	2	519	1038
	5	5.0	2	264	528
	6	5.0	6	269	1614
	7	5.0	168	78	13104
	8	5.0	2	215	430
	9	5.0	2	214	428
	10	5.0	2	259	518
	11	5.0	2	200	400
	12	5.0	2	159	318
	13	5.0	2	222	444
	14	5.0	2	204	408
	15	5.0	2	183	366
	16	5.0	2	158	316
CA50	17	10.0	8	554	4432
	18	10.0	2	148	296
	19	10.0	2	146	292
	20	10.0	4	159	636
	21	10.0	1	372	372
	22	10.0	2	564	1128
	23	10.0	1	235	235
	24	10.0	2	195	390
	25	10.0	4	164	656
	26	10.0	6	288	1728
	27	10.0	4	199	796
	28	10.0	2	209	418
	29	10.0	2	210	420
	30	10.0	1	278	278
	31	10.0	2	200	400
	32	10.0	4	358	1432
	33	10.0	8	435	3480
	34	10.0	2	428	856
	35	10.0	2	270	540
	36	10.0	2	483	966
	37	10.0	2	259	518
	38	10.0	1	211	211
	39	10.0	2	850	1700
	40	10.0	2	347	694
	41	10.0	2	239	478
	42	10.0	4	256	1024
	43	10.0	2	386	772
	44	10.0	4	440	1760
	45	10.0	2	432	864
	46	10.0	2	270	540
	47	10.0	2	913	1826
	48	10.0	1	204	204
	49	10.0	2	840	1680
	50	12.5	4	563	2252

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO (kg)
CA50	10.0	320.3	197.5
	12.5	22.6	21.7
CA60	5.0	600.2	92.5
PESO TOTAL			
CA50	219.2		
CA60	92.5		

Vol. de concreto total (C-20) = 5.4 m³
Área de forma total = 86,3 m²

NOTAS:

1 - CONCRETO fck ≥ 20 MPa.

2 - AÇOS CA50 E CA60.

3 - DIMENSÕES EM cm.

4 - ELEVAÇÕES EM cm.

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CLIENTE: UNIVERSIDADE ESTADUAL DO NORTE FLUMINENSE DARCY RIBEIRO

PROJETO: PROJETO ESTRUTURAL PARA SUBESTAÇÃO ABRIGADA 01
CAMPUS UENF - AVENIDA ALBERTO LAMEGO 2000
CAMPOS DOS GOYTACAZES - RJ.

ASSUNTO: ESTRUTURA - ARMAÇÃO DAS CINTAS

ESCALA: INDICADA | DESENHO: EJRM

PROJETO: EJRM | DATA: JUNHO 2013

P- Nº: XX/XX