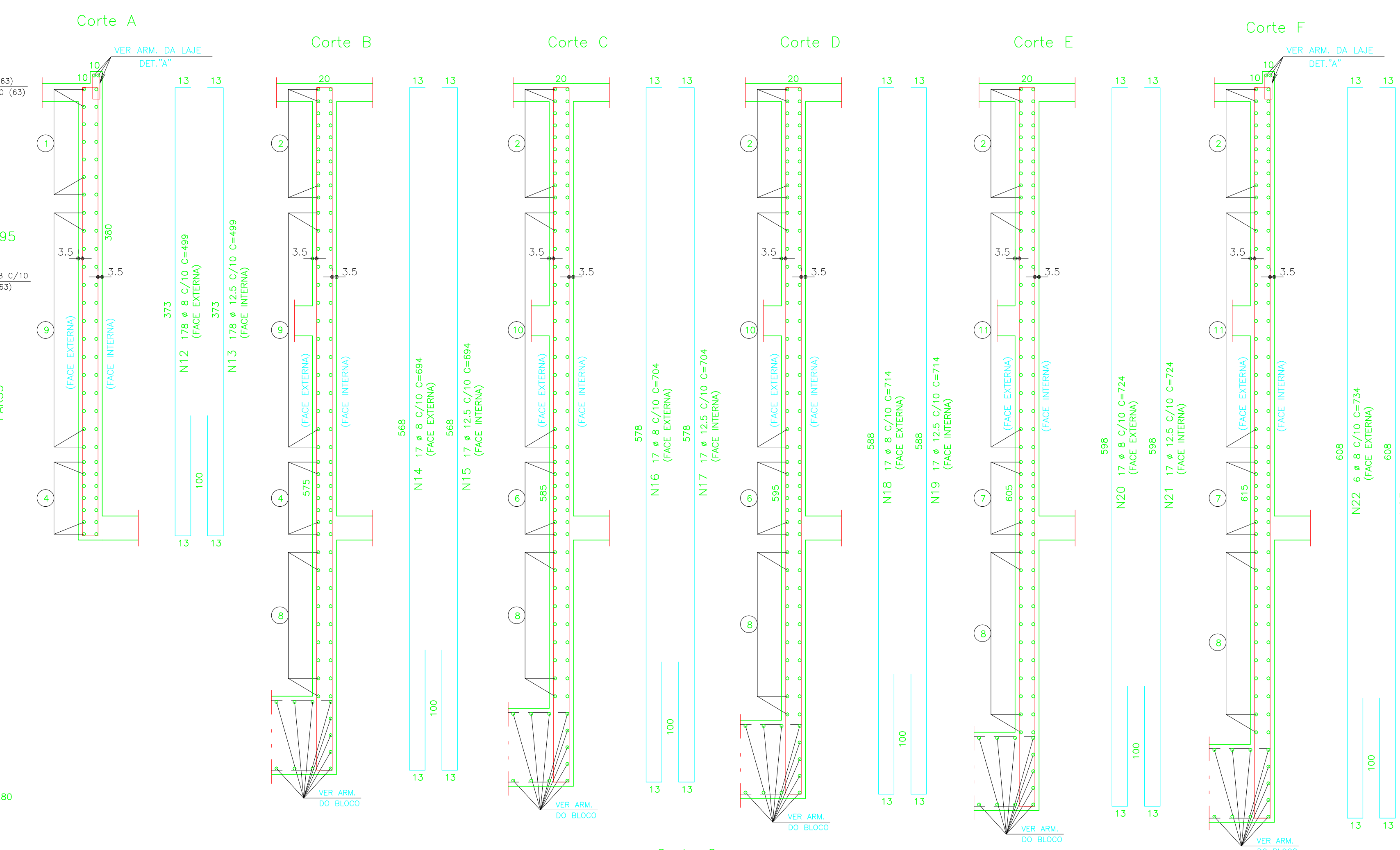


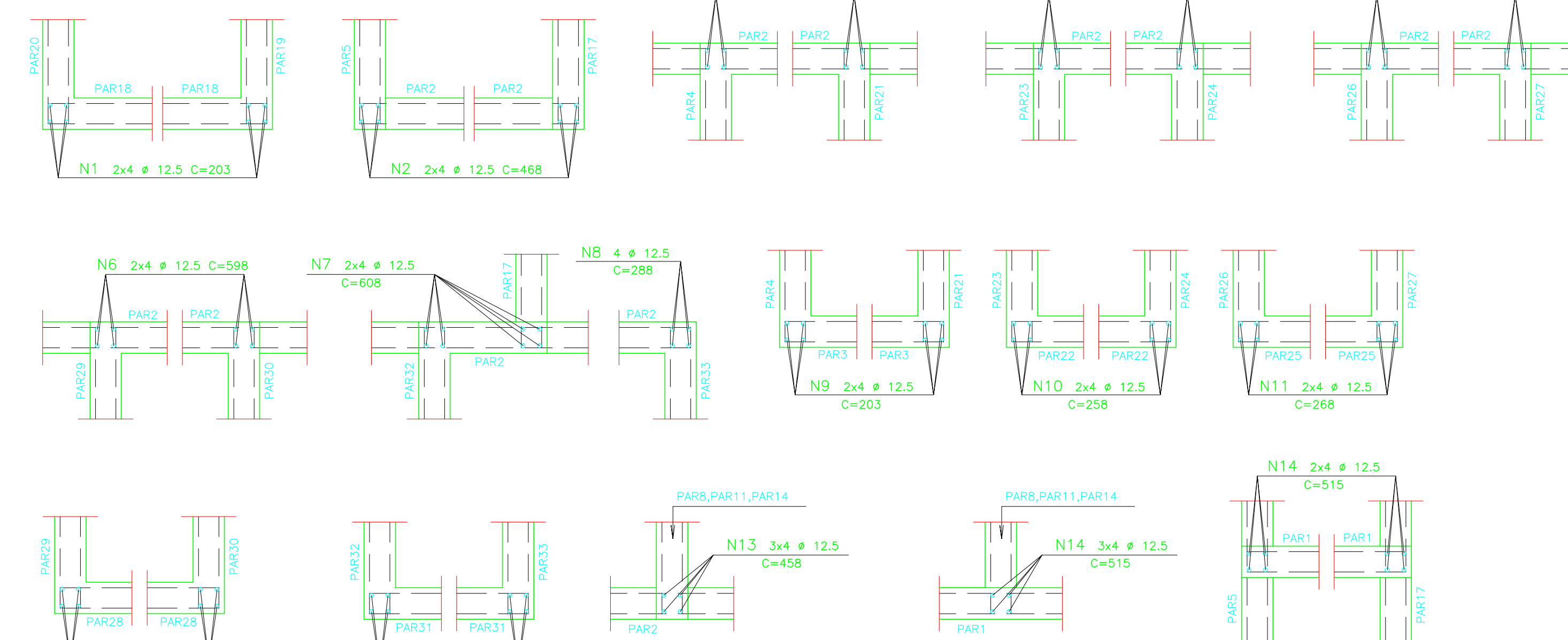
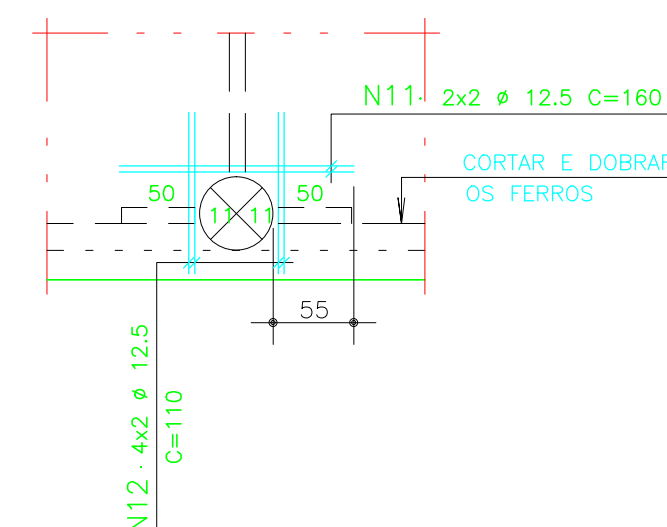
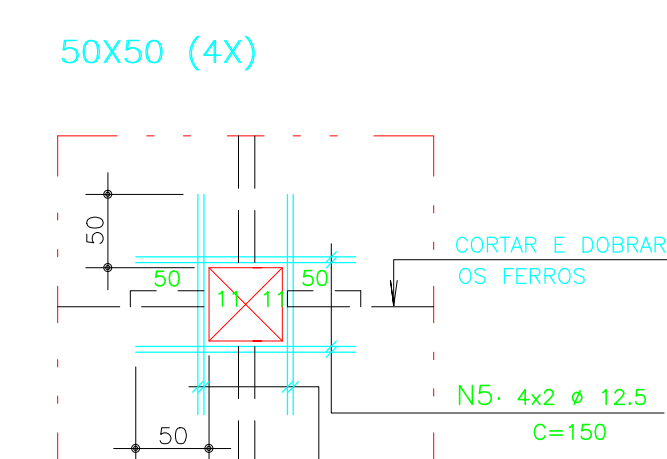
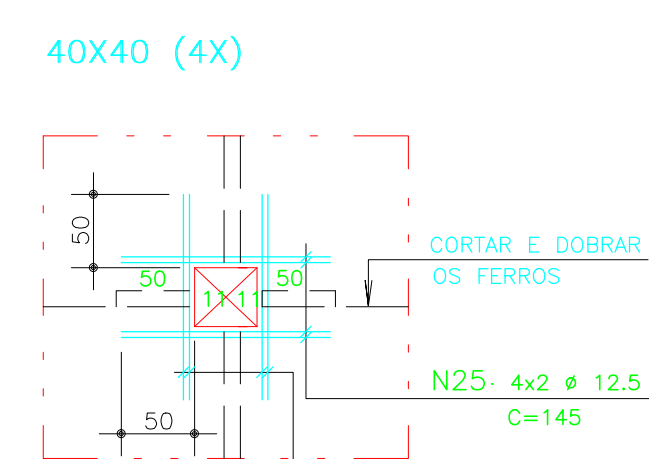
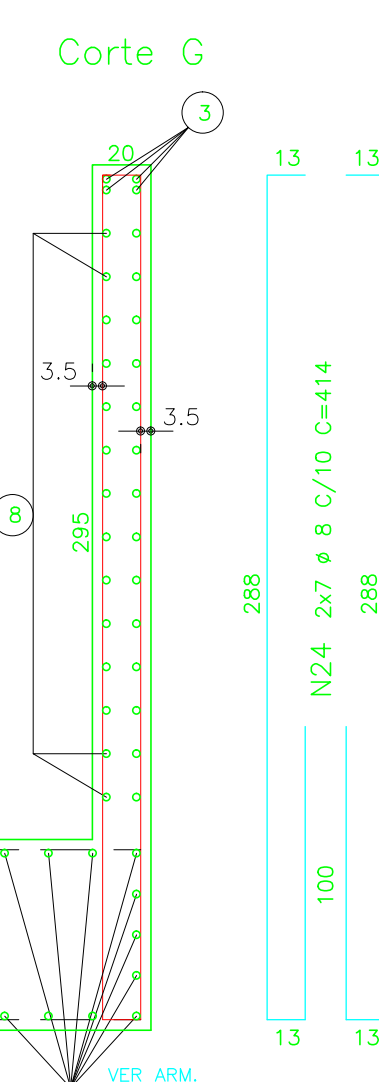
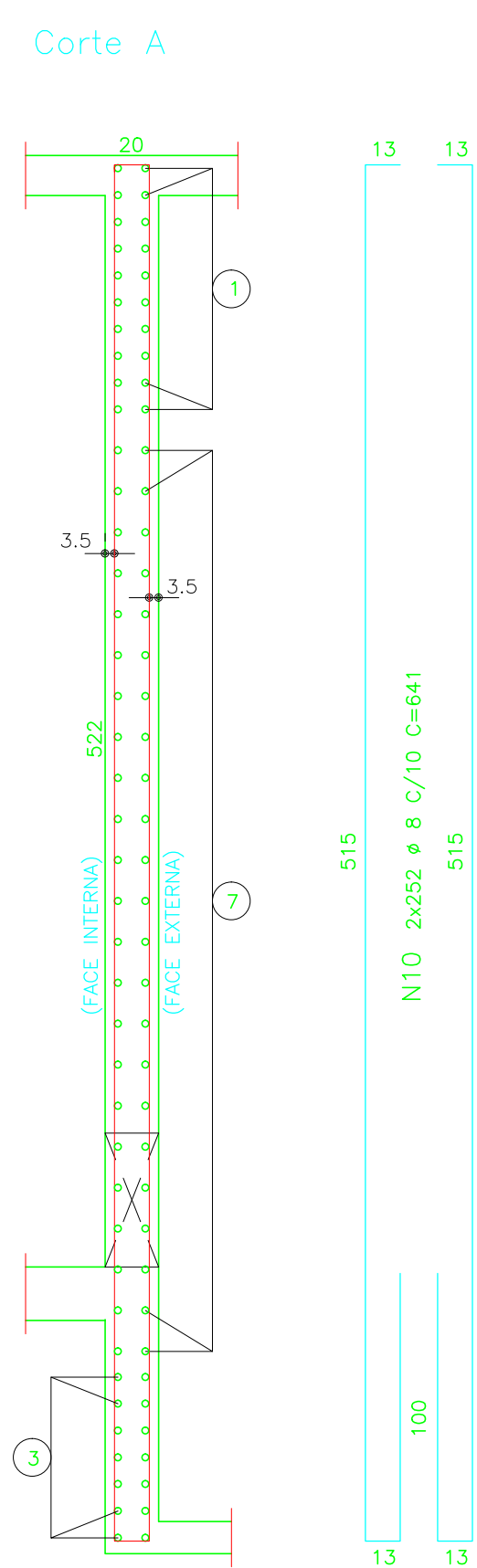
This technical drawing illustrates a facade elevation with the following details:

- Structural Elements:** Vertical columns are labeled with codes such as N12 23, N14 17, N15 17, N16 17, N17 17, N18 17, N19 17, N20 17, N21 17, N22 17, N23 17, N24 17, N25 17, N26 17, N27 17, N28 17, N29 17, N30 17, N31 17, N32 17, N33 17, N34 17, N35 17, N36 17, N37 17, N38 17, N39 17, N40 17, N41 17, N42 17, N43 17, N44 17, N45 17, N46 17, N47 17, N48 17, N49 17, N50 17, N51 17, N52 17, N53 17, N54 17, N55 17, N56 17, N57 17, N58 17, N59 17, N60 17, N61 17, N62 17, N63 17, N64 17, N65 17, N66 17, N67 17, N68 17, N69 17, N70 17, N71 17, N72 17, N73 17, N74 17, N75 17, N76 17, N77 17, N78 17, N79 17, N80 17, N81 17, N82 17, N83 17, N84 17, N85 17, N86 17, N87 17, N88 17, N89 17, N90 17, N91 17, N92 17, N93 17, N94 17, N95 17, N96 17, N97 17, N98 17, N99 17, N100 17. Horizontal beams are labeled with codes such as N1 2x7, N2 2x10, N3 4x12.5, N4 2x7, N5 2x7, N6 2x7, N7 2x7, N8 2x9, N9 2x14, N10 2x14, N11 2x14, N12 2x14, N13 2x14, N14 2x14, N15 2x14, N16 2x14, N17 2x14, N18 2x14, N19 2x14, N20 2x14, N21 2x14, N22 2x14, N23 2x14, N24 2x14, N25 2x14, N26 2x14, N27 2x14, N28 2x14, N29 2x14, N30 2x14, N31 2x14, N32 2x14, N33 2x14, N34 2x14, N35 2x14, N36 2x14, N37 2x14, N38 2x14, N39 2x14, N40 2x14, N41 2x14, N42 2x14, N43 2x14, N44 2x14, N45 2x14, N46 2x14, N47 2x14, N48 2x14, N49 2x14, N50 2x14, N51 2x14, N52 2x14, N53 2x14, N54 2x14, N55 2x14, N56 2x14, N57 2x14, N58 2x14, N59 2x14, N60 2x14, N61 2x14, N62 2x14, N63 2x14, N64 2x14, N65 2x14, N66 2x14, N67 2x14, N68 2x14, N69 2x14, N70 2x14, N71 2x14, N72 2x14, N73 2x14, N74 2x14, N75 2x14, N76 2x14, N77 2x14, N78 2x14, N79 2x14, N80 2x14, N81 2x14, N82 2x14, N83 2x14, N84 2x14, N85 2x14, N86 2x14, N87 2x14, N88 2x14, N89 2x14, N90 2x14, N91 2x14, N92 2x14, N93 2x14, N94 2x14, N95 2x14, N96 2x14, N97 2x14, N98 2x14, N99 2x14, N100 2x14.
- Windows and Doors:** Various window and door types are indicated, including "VER. ARM. DO. BLOCCO" (vertical arm door block) and "DO. BLOCCO" (door block). Dimensions for these elements are provided, such as 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 8




	AÇO	POS	BIT (mm)	QUANT	COMPROMIMENTO		
					UNIT (cm)	TOTAL (cm)	
PAR1	50A	1	12,5	60	700	42000	
	50A	2	8	28	140	11200	
	50A	3	12,5	28	145	11030	
	50A	4	12,5	14	695	19640	
	50A	5	12,5	14	190	2740	
	50A	6	8	46	590	27140	
	50A	7	12,5	18	400	50200	
	50A	8	8	92	320	29440	
	50A	9	8	160	570	66240	
	50A	10	8	504	61	32300	
	50A	12	12,5	32	110	3520	
PAR2	50A	1	8	28	440	12320	
	50A	2	12,5	60	700	42000	
	50A	3	12,5	28	140	11200	
	50A	4	12,5	14	750	10500	
	50A	5	12,5	28	140	11200	
	50A	6	12,5	28	700	19600	
	50A	8	12,5	14	790	11060	
	50A	8	8	106	56	2680	
	50A	9	8	28	700	21000	
	50A	10	10	56	680	3680	
	50A	11	8	28	770	21560	
	50A	12	10	69	699	8882	
	50A	13	12,5	178	499	88822	
	50A	14	8	17	17	17	
	50A	15	12,5	17	694	17798	
	50A	16	8	17	714	17724	
	50A	17	12,5	17	704	19968	
	50A	18	8	17	714	11138	
PAR3	50A	19	12,5	17	12	12	
	50A	20	8	17	124	12308	
	50A	21	12,5	17	124	12308	
	50A	22	8	6	734	4040	
	50A	23	12,5	14	154	2154	
	50A	24	8	14	414	5798	
	50A	25	12,5	64	145	9280	
	50A	26	8	14	14	14	
	PAR4	50A	1	12,5	4	218	872
		50A	2	8	24	260	6240
		50A	3	8	26	274	7124
	PAR5	50A	1	12,5	4	218	872
		50A	2	8	24	260	6240
		50A	3	8	26	274	7124
50A		2	10	32	432	13824	
50A		3	12,5	612	612	612	
50A		3	8	208	885	175760	
50A		4	10	833	303	24660	
PAR6	50A	5	10	16	190	3040	
	50A	6	6,3	120	1097	131640	
	50A	7	6,3	320	-VAR-	60400	
	REFORÇO DOS CANTOS DAS PAREDES	50A	1	12,5	28	203	1624
		50A	2	12,5	8	468	3744
		50A	3	12,5	8	658	4868
		50A	4	12,5	8	578	4624
50A		5	12,5	8	578	4624	
50A		6	12,5	8	598	4784	
50A		7	12,5	12	598	4784	
50A		8	12,5	12	598	3456	
50A		9	12,5	8	208	1624	
50A		10	12,5	8	268	2144	
50A		11	12,5	8	278	2224	
50A		12	12,5	12	458	5496	
50A		13	12,5	12	458	5496	
50A		14	12,5	28	515	10300	

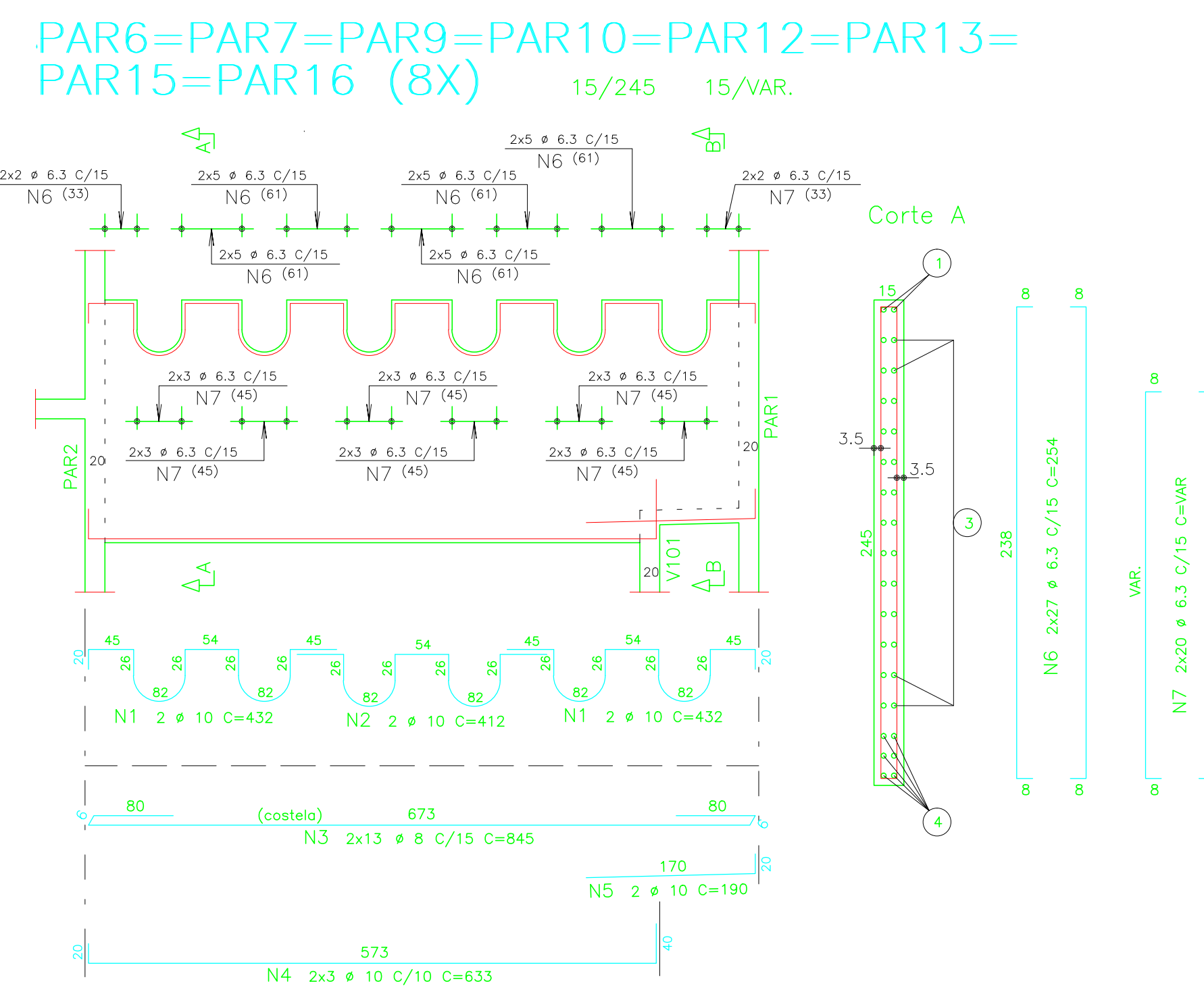
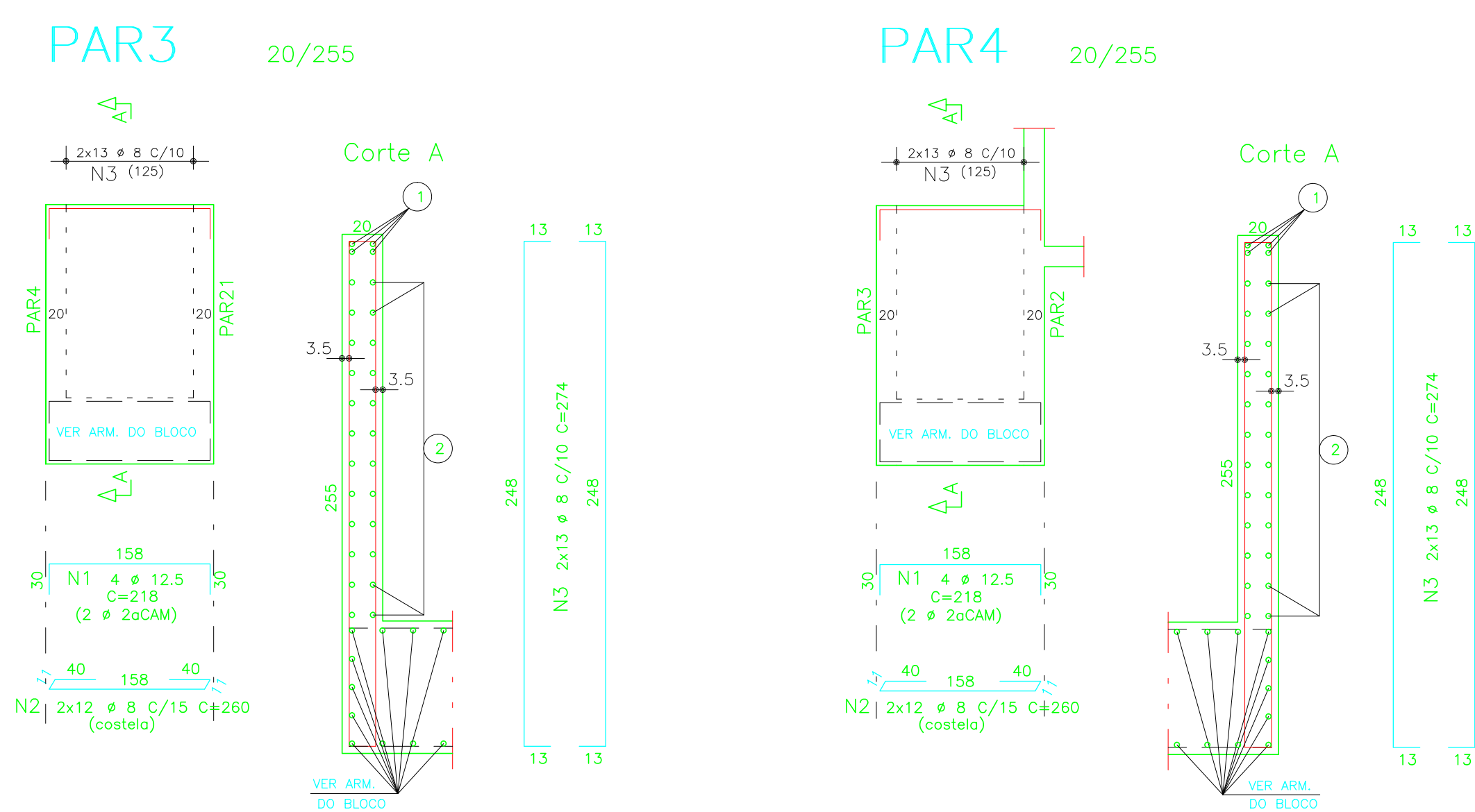
RESUMO AÇO CA 50-60			
AÇO	BIT (mm)	COMPR (m)	PESO (kg)
50A	6,3	1737	434
50A	8	8905	3562
50A	10	538	339
50A	12,5	4464	4464
Peso Total		50A =	8800 kg



NOTA:

- É OBRIGATÓRIO RESPEITAR OS COBRIMENTOS DAS ARMADURAS UTILIZANDO PASTILHAS DE CONCRETO OU PLÁSTICO
- COBRIMENTO DAS ARMADURAS = 3.5cm

0		DESENHO INICIAL	22/08
REV.	DESCRIÇÃO DE MODIFICAÇÕES		APROVAÇÃO DATA
CLIENTE	SEMAE SERVIÇO DE ÁGUA E ESGOTO DE PIRACICABA		
OBRA	CONSTRUÇÃO DE FILTROS		
DESENHO	ARM. DAS PAREDES; PAR1 e PAR4,PAR6,PAR7,PAR9, PAR10,PAR12,PAR13,PAR15 e PAR16		ÁREA DE ARMAZ. DE FUND. 1,50,1,25
		R. C-40 RUA FLORENÇO PERDIZO N. 560 - C. CENTRO - TELFAX (00719) 34433321 FONE (00719) 34433321 - FAX (00719) 34433321 - CEP 13400-000 - SÃO PAULO ENG. CIVIL SALVADOR D. MARTH - CREA 0601478290	
		PROJETO ELABORADO POR: DR. CLAUDIO DES. CLAUDIO	P11 = DES. CLAUDIO



R = RAIO DE DOBRAMENTO

φ (mm)	10	12.5	16	20
R (cm)	2.5	3.5	4	8

VIGAS
ESPACAMENTO ENTRE
CAMADAS DAS BARRAS

C=COBRIMENTO