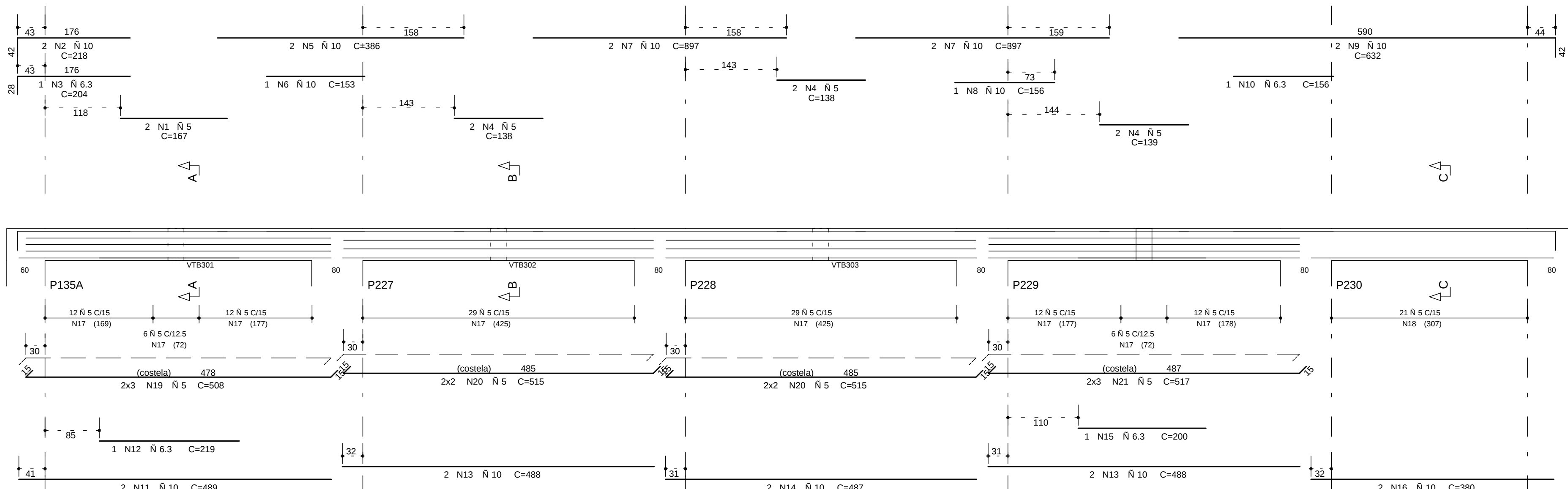


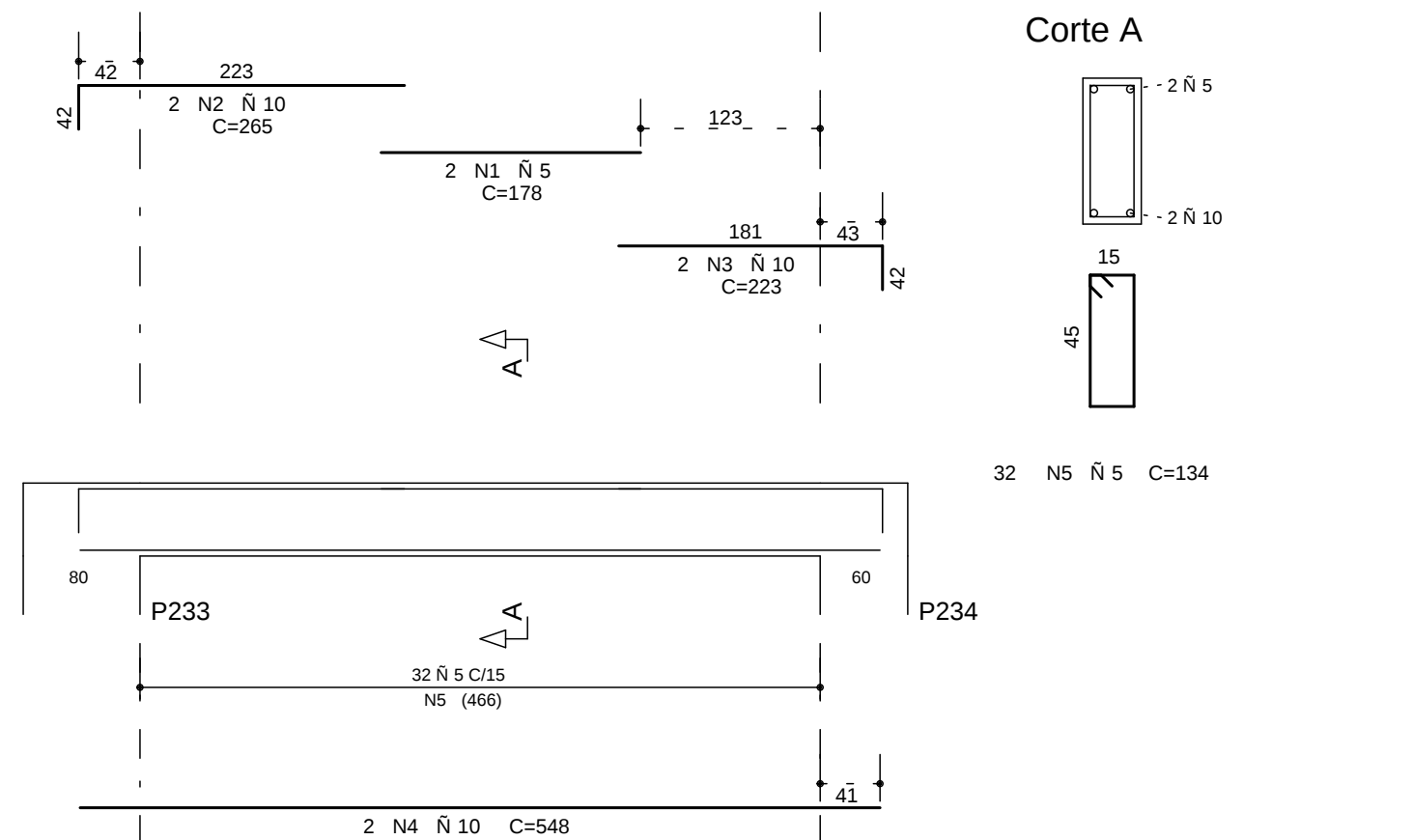
VB301

20/50



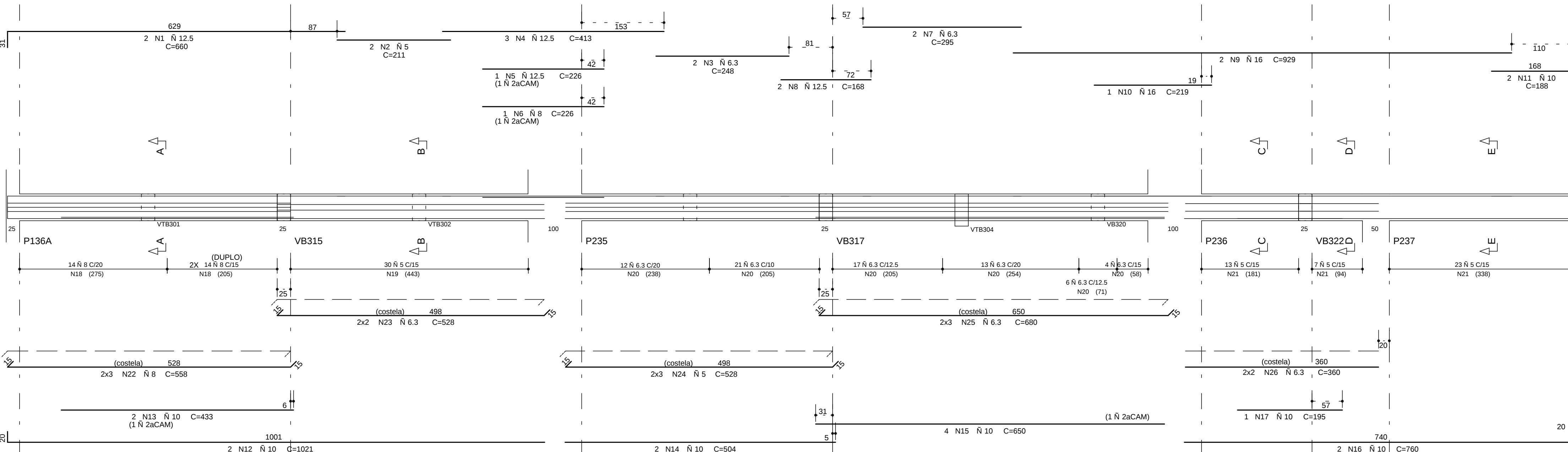
VB304

20/50



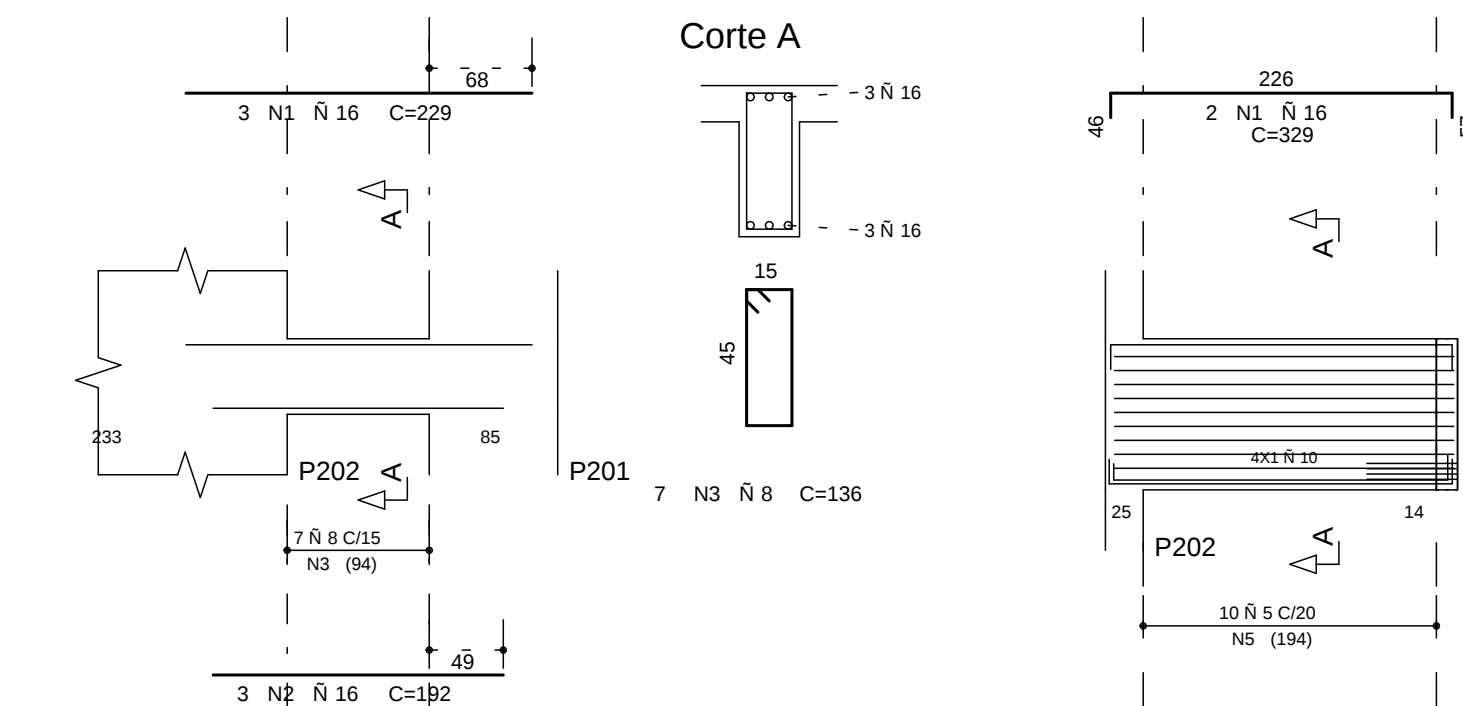
VB305

20/50



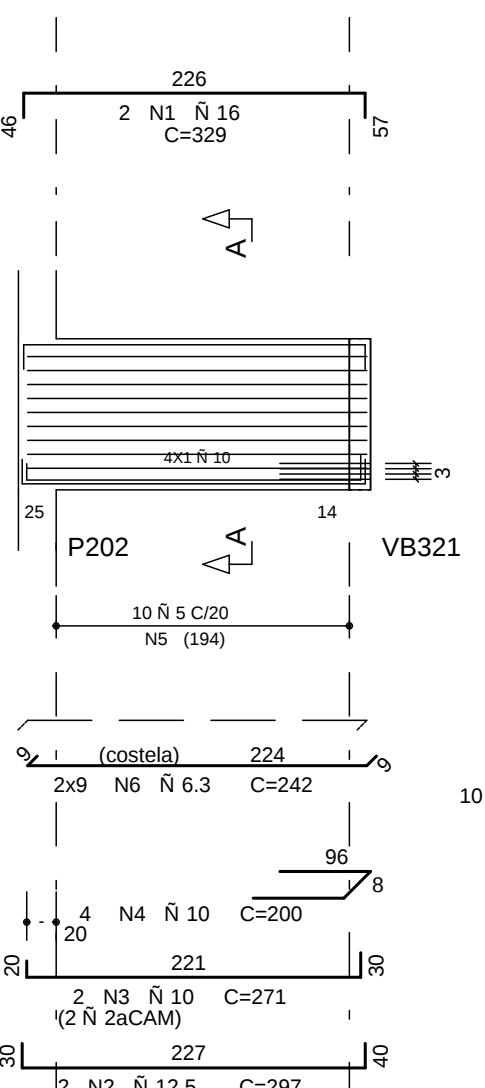
VB306

20/50



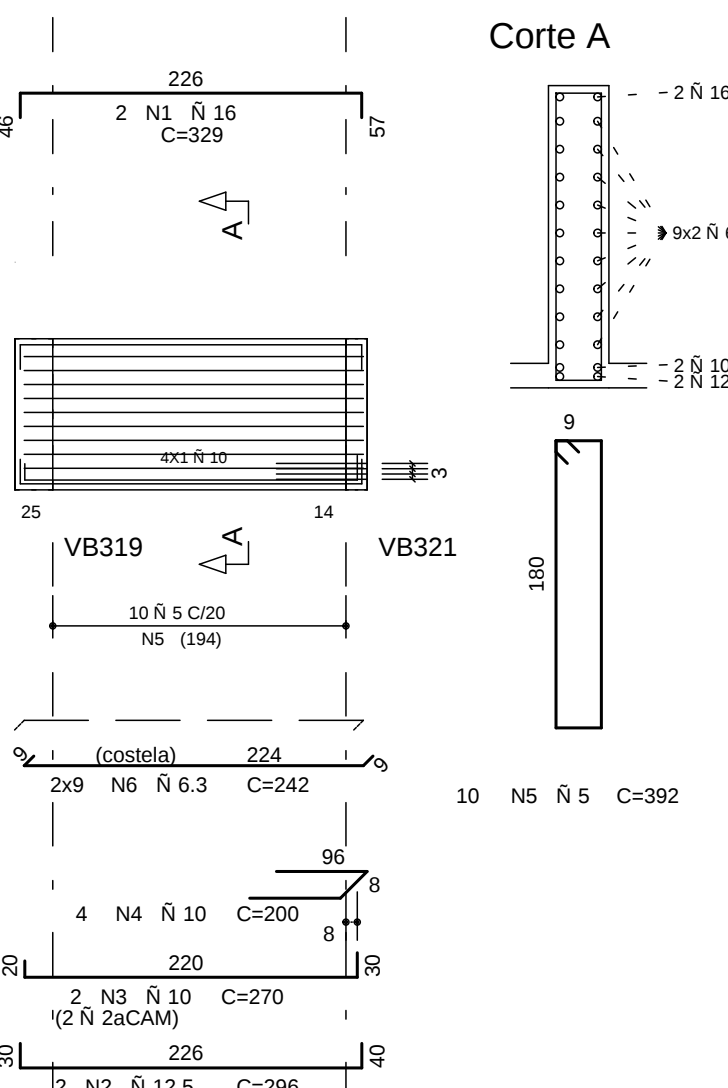
VB307

14/185



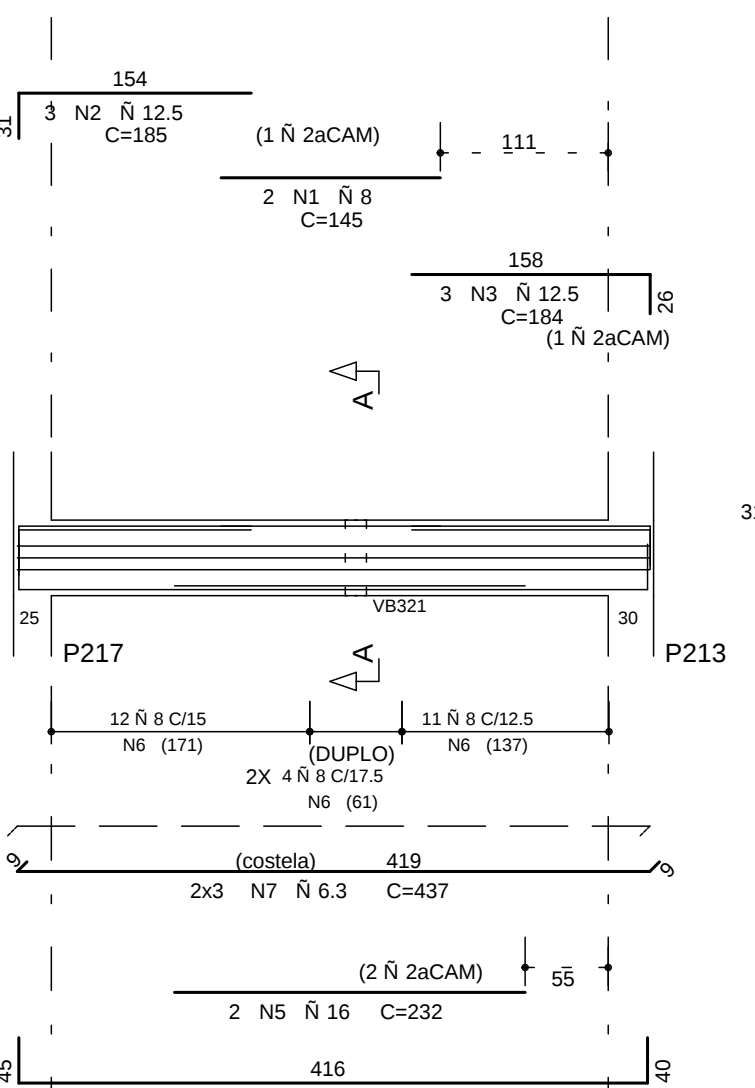
VB308/VB309

14/185



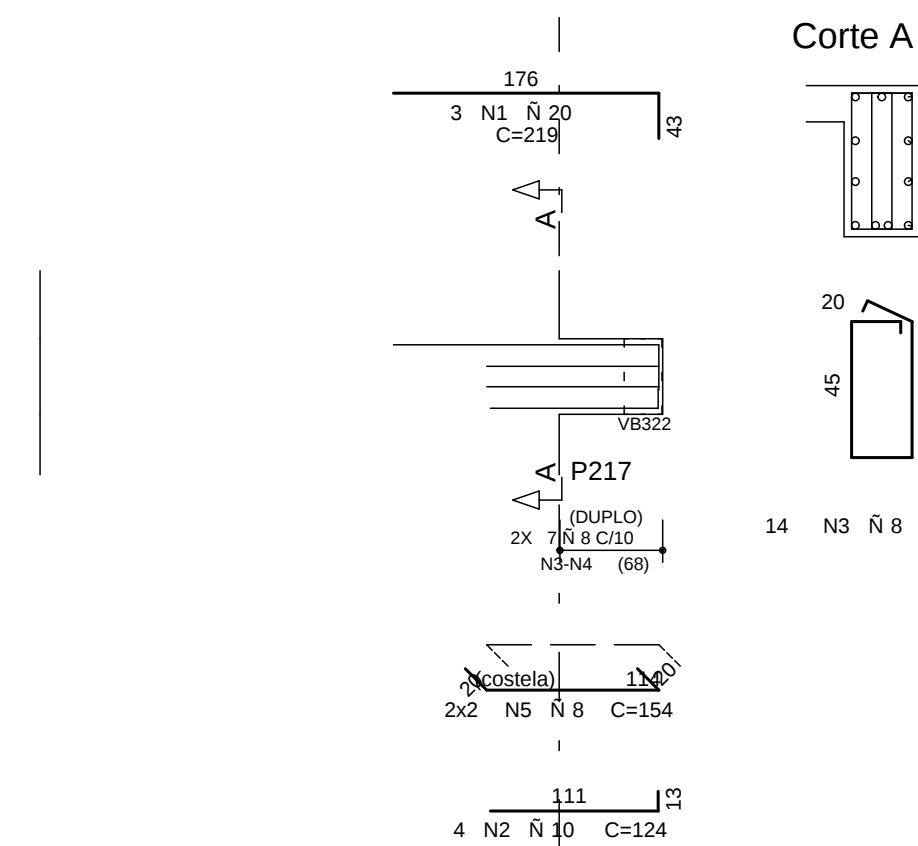
VB310

14/50



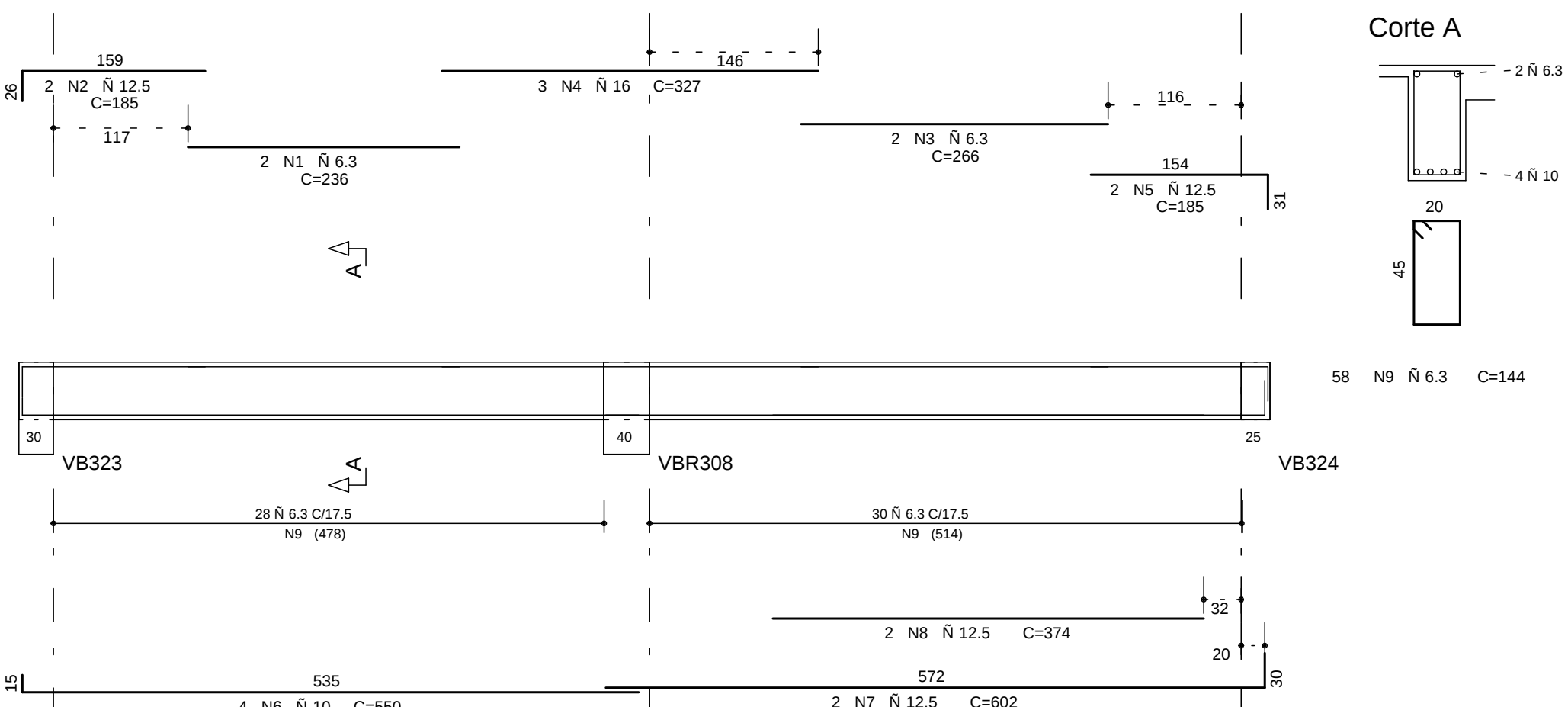
VB311

25/50



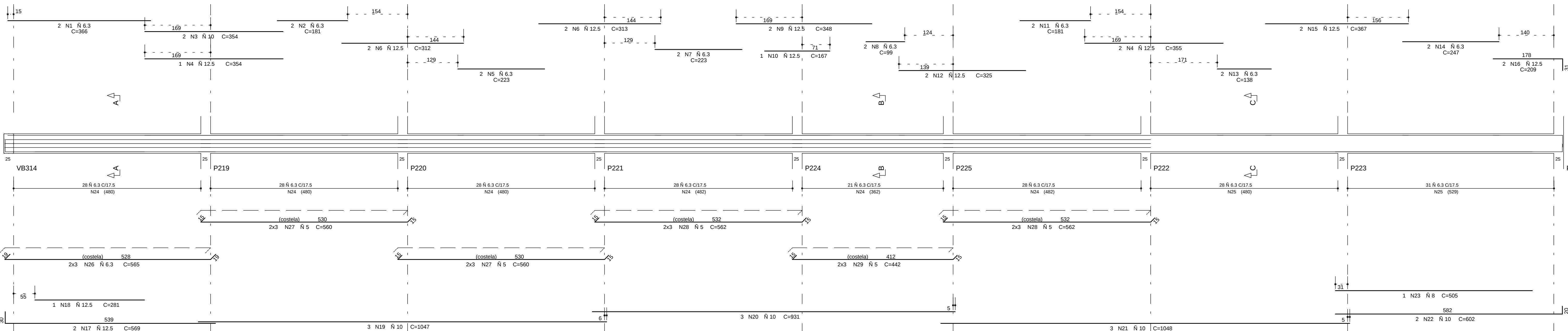
VB312

25/50



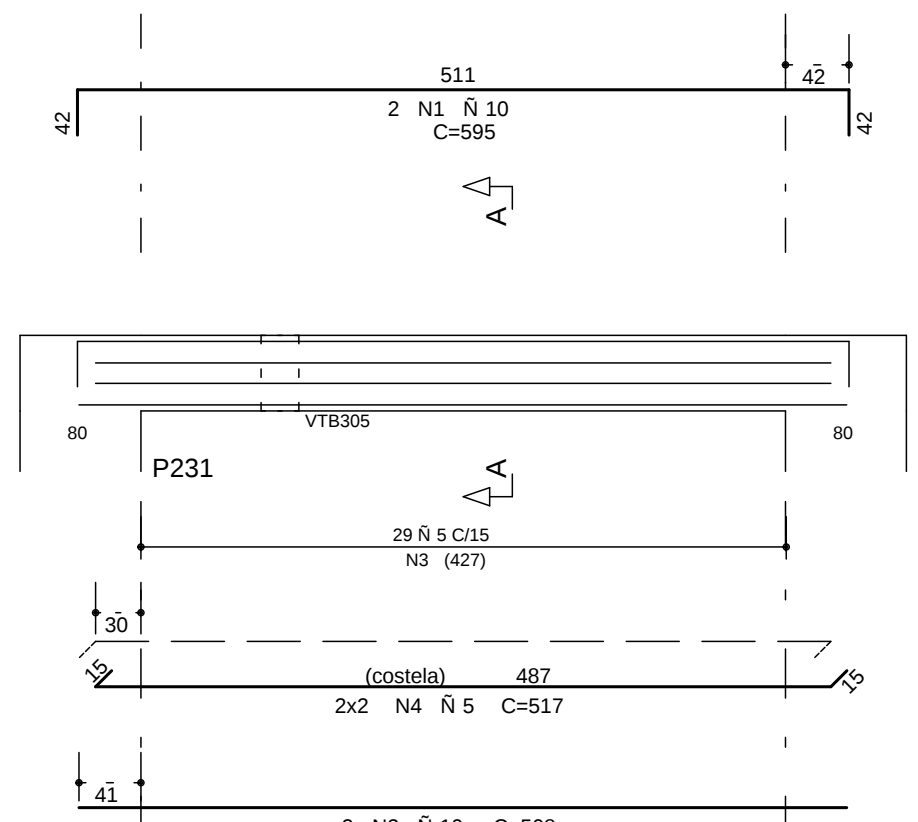
VB313

25/50



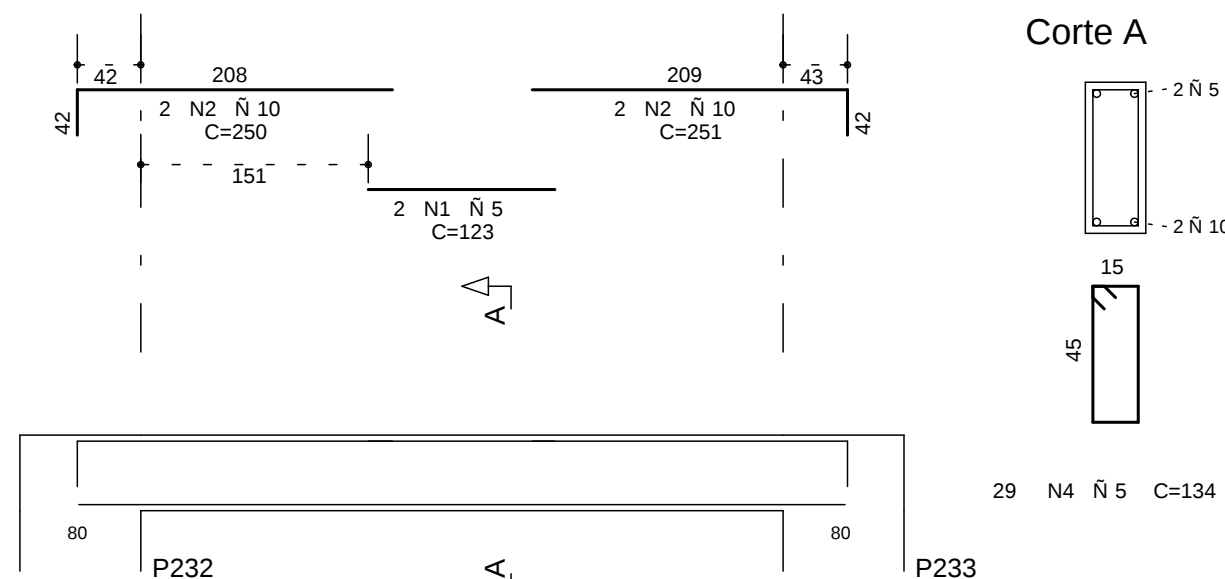
VB302

20/50



VB303

20/50



VB303

20/50



AE O	POS	BIT (mm)	QUANT	COMPRIMENTO (cm)	UNIT	TOTAL
VB301						
60R	1	5	2	167	334	
60A	2	10	2	218	436	
60A	3	6.3	1	204	204	
60A	4	10	2	138	276	
60A	5	10	2	386	772	
60A	6	10	1	152	152	
60A	7	10	4	397	1588	
60A	8	6.3	1	186	186	
60A	9	10	2	632	1264	
60A	10	6.3	2	218	436	
60A	11	10	2	489	978	
60A	12	6.3	2	467	934	
60A	13	10	4	488	1952	
60A	14	10	2	380	760	
60A	15	6.3	1	200	200	
60B	17	5	118	149	17502	
60B	18	5	21	134	2814	
60B	19	5	6	508	3048	
60B	20	5	6	515	3090	
60B	21	5	6	517	3102	
VB302						
60A	1	10	2	686	1372	
60B	3	5	29	149	4321	
60B	4	5	2	907	1814	
VB303						
60R	1	5	2	123	246	
60A	2	10	4	250	1000	
60A	3	10	2	548	1096	
60B	4	5	29	134	3885	
VB304						
60R	1	5	2	178	356	
60A	3	10	2	223	446	
60A	4	10	2	548	1096	
60B	5	5	32	134	4288	
VB305						
60A	1	12.5	2	660	1320	
60B	2	10	2	214	428	
60A	3	6.3	2	248	496	
60A	4	12.5	3	413	1239	
60A	5	12.5	1	226	226	
60A	6	12.5	2	226	452	
60A	7	6.3	2	296	592	
60A	8	12.5	2	188	376	
60A	9	16	2	929	1858	
60A	10	10	2	219	438	
60A	11	10	2	188	376	
60A	12	10	2	1013	2026	
60A	13	10	2	431	862	
60A	14	10	4	650	2600	
60A	15	10	4	650	2600	
60A	16	10	4	760	3040	
60A	17	10	1	195	195	
60A	18	5	73	149	6417	
60B	19	5	30	149	4470	
60B	20	5	6	508	3048	
60B	21	5	43	134	5762	
60B	22	5	6	528	3168	
60B	23	6.3	4	528	2112	
60B	24	5	6	528	3168	
60B	25	6.3	6	680	4080	
60B	26	6.3	6	360	2160	
VB306						
60A	1	16	3	228	687	
60A	2	16	3	182	546	
60A	3	8	7	136	952	
VB307						
60A	1	16	2	328	656	
60A	2	12.5	2	297	594	
60A	3	10	4	271	1084	
60A	4	10	2	200	400	
60A	5	10	2	300	600	
60A	6	6.3	18	242	4356	
VB308/VB309 (x2)						
60A	1	16	4	329	1316	
60A	2	12.5	4	296	1184	
60A	3	10	4	270	1080	
60A	4	10	8	200	1600	
60A	5	10	20	392	7840	
60A	6	6.3	36	242	8712	
VB310						
60A	1	8	2	145	290	
60A	2	12.5	3	186	558	
60A	3	12.5	3	184	552	
60A	4	16	2	801	1602	
60A	5	16	2	232	464	
60A	6	8	31	133	4123	
60A	7	6.3	6	437	2622	
VB311						
60A	1	20	3	219	657	
60A	2	10	4	124	496	
60A	3	8	14	166	1164	
60A	5	8	6	154	924	
VB312						
60A	1	6.3	2	238	477	
60A	2	12.5	2	186	372	
60A	3	6.3	2	206	412	
60A	4	16	3	327	981	
60A	5	12.5	2	186	372	
60A	6	10	4	950	3800	
60A	7	12.5	2	602	1204	
60A	8	12.5	2	374	748	
60B	9	6.3	58	144	8352	
VB313						
60A	1	6.3	2	358	716	
60A	2	6.3	2	181	362	
60A	3	10	2	394	788	
60A	4	12.5	3	354	1062	
60A	5	6.3	2	223	446	
60A	6	12.5	4	312	1248	
60A	7	6.3	2	223	446	
60A	8	6.3	2	99	198	
60A	9	12.5	2	348	696	
60A	10	12.5	1	167	334	
60A	11	6.3	2	181	362	
60A	12	12.5	2	326	652	
60A	13	12.5	2	367	734	
60A	14	6.3	2	247	494	
60A	15	12.5	2	658	1316	
60A	16	12.5	2	209	418	
60A	17	12.5	2	1017	2034	
60A	18	12.5	1	281	562	
60A	19	10	3	931	2793	
60A	20	10	3	1040	3120	
60A	21	10	2	652	1304	
60A	22	10	2	105	210	
60A	23	6.3	161	154	24804	
60A	24	6.3	99	144	14196	
60A	25	6.3	6	955	3860	
60A	26	6.3	12	950	4700	
60B	28	5	12	562	6744	
60B	29	5	6	442	2652	

COBRIMENTO DA ARMADURA:

- LAJES = 2.0 cm
- VIGAS E PLARES = 2.5 cm
- BLOCOS, BALDRAMES E CONTENEDORES (FACE EM CONTATO COM A TERRA) = 3.0 cm

1 ESSES COMENTÁRIOS DEVEM SER GARANTIDOS COM O USO DE ESPERMAS OU PASTILHAS
COBRIMENTOS ESPECÍFICOS EM CONTRÁRIO AOS VALORES INDICADOS AQUI, ESTÃO INDICADOS NOS DESENHOS DE FORMAS DOS PAVIMENTOS.

NORMAS UTILIZADAS:

NBR-6118/2003 - PROJETO E EXECUÇÃO DE OBRAS DE CONCRETO ARMADO
NBR-6120/1980 - CARGAS PARA O CÁLCULO DE ESTRUTURAS DE EDIFICAÇÕES

INDICE:

VB301 A VB313

FCK= 35 MPa

EC = 28 GPa

A/C = 0,65

(MODULO DE ELASTICIDADE SECANTE AOS 28 DIAS).

(FATOR AGUA CIMENTO)

1	21/08/2014	NUMERAÇÃO FINAL	
0	02/04/2012	EMIÇÃO INICIAL	
REV	DATA	DESCRIÇÃO	
PROJETO ESTRUTURAL CLIENTE: GENT INCORPORADORA LTDA. OBRA: ED. RESIDENCIAL/COMERCIAL PANEIRAS ENDEREÇO OBRA: RUA 30 NORTE LOTE 03 - RUA DAS PANEIRAS - AGUAS CLARAS DE TORRE 2 - JUNTA B (01/03)			
RESPONSÁVEL: TQS GUSTAVO DATA: 02/04/2012 ESCALA: 1:50 UNIDADE: CM			RESPONSÁVEL: BL2-037-085 NO PROJETO SINETRIA: 478
ARQUIVO: P.L.T. PROPRIETÁRIO: 478 - EST-BL2-037-085 - R01 - VIG-PLT RESPONSÁVEL TÉCNICO: _____			
RESPONSÁVEL TÉCNICO PELO PROJETO ESTRUTURAL: _____ SINETRIA ENGENHARIA E PROJETOS S/C LTDA CNPJ: 17.039.978			