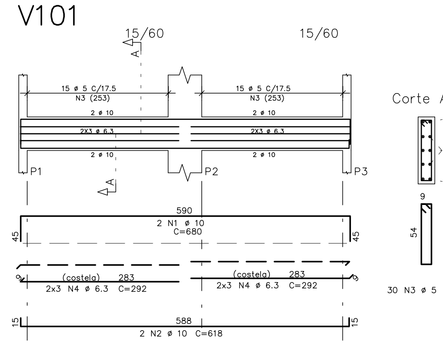
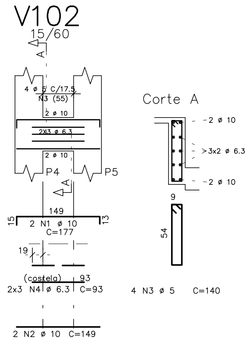
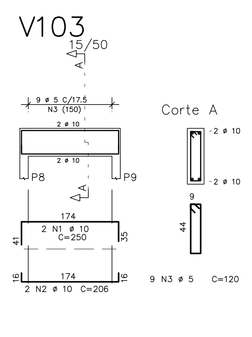
V101



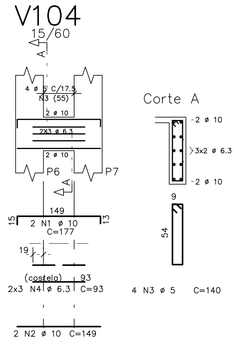
V102



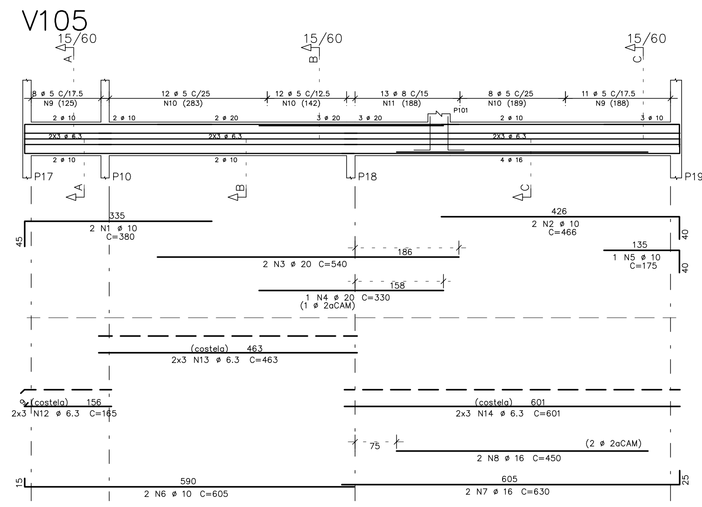
V103



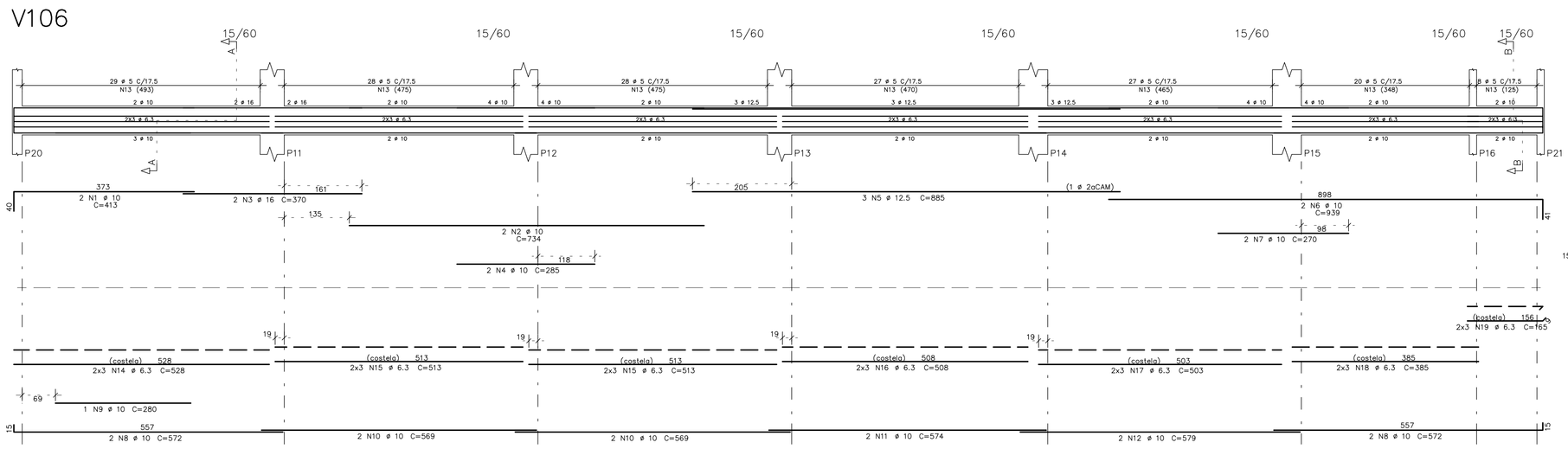
V104



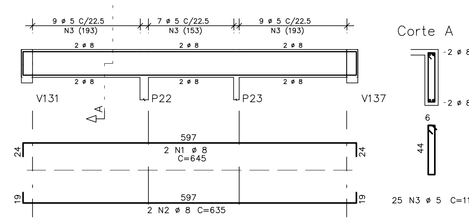
V105



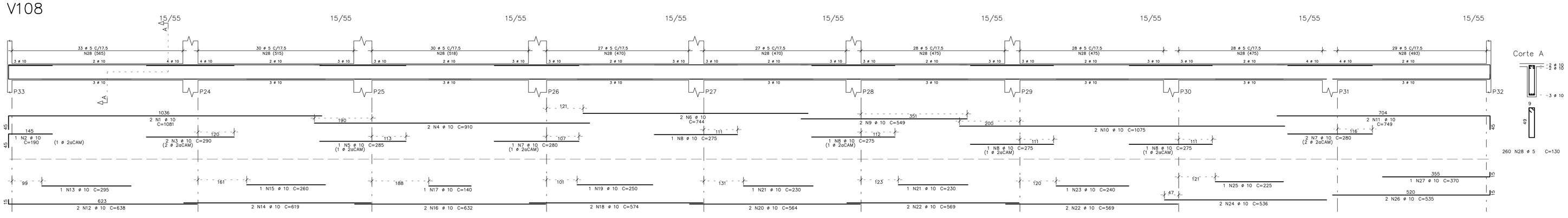
V106



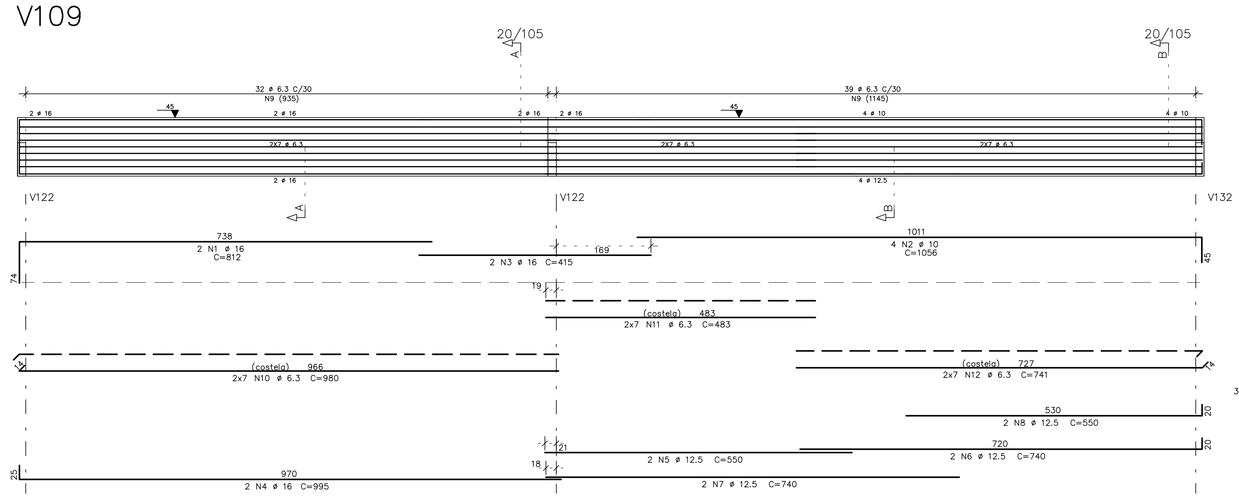
V107



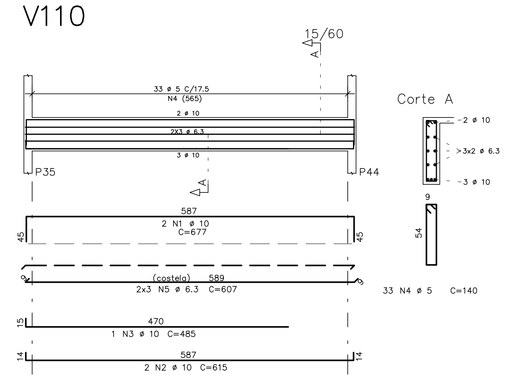
V108



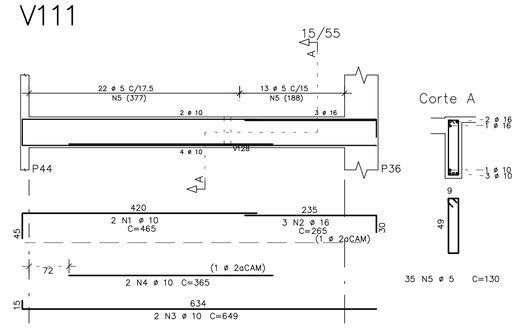
V109



V110



V111



	AÇO	POS	BIT (mm)	QUANT	COMPRIMENTO UNIT (cm)	COMPRIMENTO TOTAL (cm)
V101						
	50A	1	10	2	680	1360
	50A	2	10	2	618	1236
	60B	3	5	30	140	4200
	50A	4	6.3	12	292	3504
V102						
	50A	1	10	2	177	354
	50A	2	10	2	149	298
	60B	3	5	4	140	560
	50A	4	6.3	6	93	558
V103						
	50A	1	10	2	250	500
	50A	2	10	2	206	412
	60B	3	5	9	120	1080
V104						
	50A	1	10	2	177	354
	50A	2	10	2	149	298
	60B	3	5	4	140	560
	50A	4	6.3	6	93	558
V105						
	50A	1	10	2	380	760
	50A	2	10	2	466	932
	50A	3	20	2	540	1080
	50A	4	20	1	330	330
	50A	5	10	1	175	175
	50A	6	10	2	605	1210
	50A	7	16	2	630	1260
	50A	8	16	2	450	900
	60B	9	5	19	140	2660
	60B	10	5	32	140	4480
	50A	11	8	13	142	1846
	50A	12	6.3	6	165	990
	50A	13	6.3	6	463	2778
	50A	14	6.3	6	601	3606
V106						
	50A	1	10	2	413	826
	50A	2	10	2	734	1468
	50A	3	16	2	370	740
	50A	4	10	2	285	570
	50A	5	12.5	3	885	2655
	50A	6	10	2	939	1878
	50A	7	10	2	270	540
	50A	8	10	4	572	2288
	50A	9	10	1	280	280
	50A	10	10	4	569	2276
	50A	11	10	2	574	1148
	50A	12	10	2	579	1158
	60B	13	5	167	140	23380
	50A	14	6.3	6	528	3168
	50A	15	6.3	12	513	6156
	50A	16	6.3	6	508	3048
	50A	17	6.3	6	503	3018
	50A	18	6.3	6	385	2310
	50A	19	6.3	6	165	990
V107						
	50A	1	8	2	645	1290
	50A	2	8	2	635	1270
	60B	3	5	25	114	2850
V108						
	50A	1	10	2	1081	2162
	50A	2	10	1	190	190
	50A	3	10	2	290	580
	50A	4	10	2	910	1820
	50A	5	10	1	285	285
	50A	6	10	2	744	1488
	50A	7	10	3	280	840
	50A	8	10	4	275	1100
	50A	9	10	2	549	1098
	50A	10	10	2	1075	2150
	50A	11	10	2	749	1498
	50A	12	10	2	638	1276
	50A	13	10	1	295	295
	50A	14	10	2	619	1238
	50A	15	10	1	260	260
	50A	16	10	2	632	1264
	50A	17	10	1	140	140
	50A	18	10	2	574	1148
	50A	19	10	1	250	250
	50A	20	10	2	564	1128
	50A	21	10	2	230	460
	50A	22	10	4	569	2276
	50A	23	10	1	240	240
	50A	24	10	2	536	1072
	50A	25	10	1	225	225
	50A	26	10	2	535	1070
	50A	27	10	1	370	370
	60B	28	5	260	130	33800
V109						
	50A	1	16	2	812	1624
	50A	2	10	4	1056	4224
	50A	3	16	2	415	830
	50A	4	16	2	995	1990
	50A	5	12.5	2	550	1100
	50A	6	12.5	2	740	1480
	50A	7	12.5	2	740	1480
	50A	8	12.5	2	550	1100
	50A	9	6.3	71	240	17040
	50A	10	6.3	14	980	13720
	50A	11	6.3	14	483	6762
	50A	12	6.3	14	741	10374
V110						
	50A	1	10	2	677	1354
	50A	2	10	2	615	1230
	50A	3	10	1	485	485
	60B	4	5	33	140	4620
	50A	5	6.3	6	607	3642
V111						
	50A	1	10	2	465	930
	50A	2	16	3	265	795
	50A	3	10	2	649	1298
	50A	4	10	2	365	730
	60B	5	5	35	130	4550

RESUMO AÇO CA 50-60			
AÇO	BIT (mm)	COMPR (m)	PESO (kg)
60B	5	827	132
50A	6.3	822	206
50A	8	44	18
50A	10	565	356
50A	12.5	78	78
50A	16	81	130
50A	20	14	35
Peso Total	60B =		132 kg
Peso Total	50A =		823 kg

PMMG — DAL

SEÇÃO DE ENGENHARIA E PROJETOS

DADOS DO PROJETO

UNIDADE: 35ºBPM

LOCAL: — CIDADE: SANTA LUZIA

PROJETO (estrutural/ arquitetônico/ hidráulico etc.): ESTRUTURA DE CONCRETO — Nº PROJETO:

TÍTULO DO PROJETO (reforma / levantamento etc.): PROJETO EXECUTIVO

DETALHES: ARMAÇÃO VIGAS DO 1 PAV - PARTE 01/05 — FOLHA: 16/48

ÁREA TOTAL TERRENO: 23.978,24 m² — ÁREA ÚTIL TERRENO: 14.545,34 m² — DATA: SETEMBRO 2013

DESENHISTA: JEFERSON — ESCALA: VER PROJETO — ART.:

ASSINATURAS

DAL: ITAMAR DE ALMEIDA SÁ, CEL PM

CH. DAL/3: DÁRIO JOSÉ DE ARAÚJO SILVA, MAJ PM

R.T.: JEFERSON DYONISIO DE SÁ, ENGENHEIRO CREA-MG 98.080/D