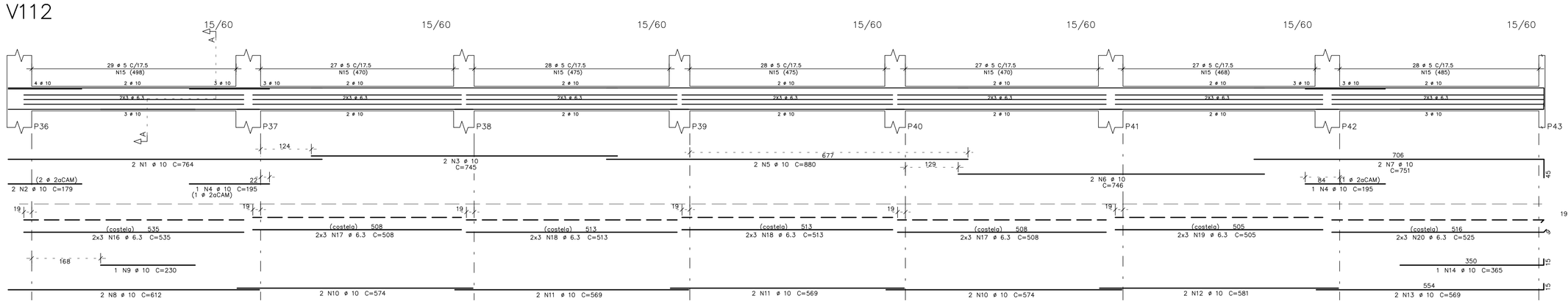
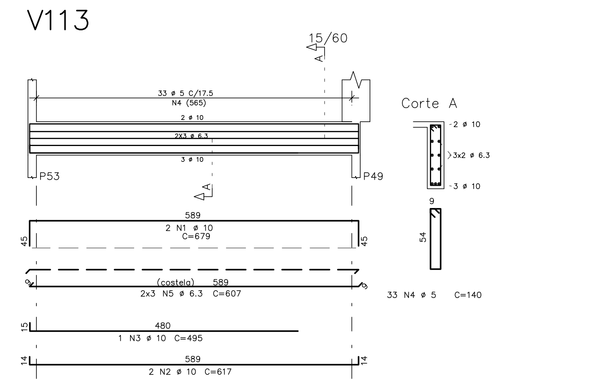
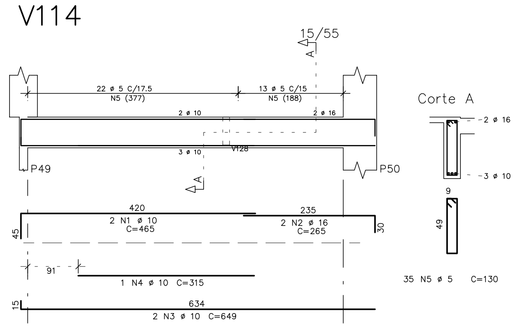
V112



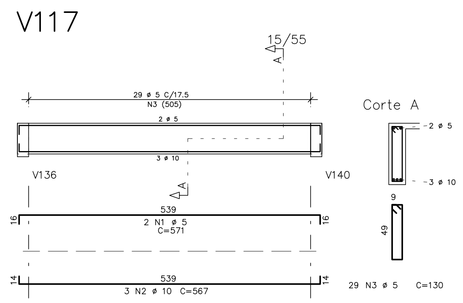
V113



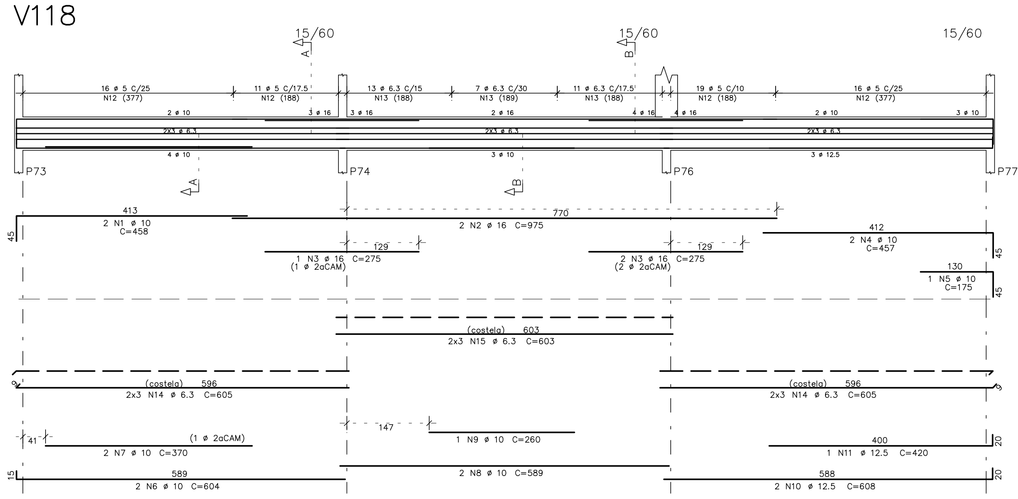
V114



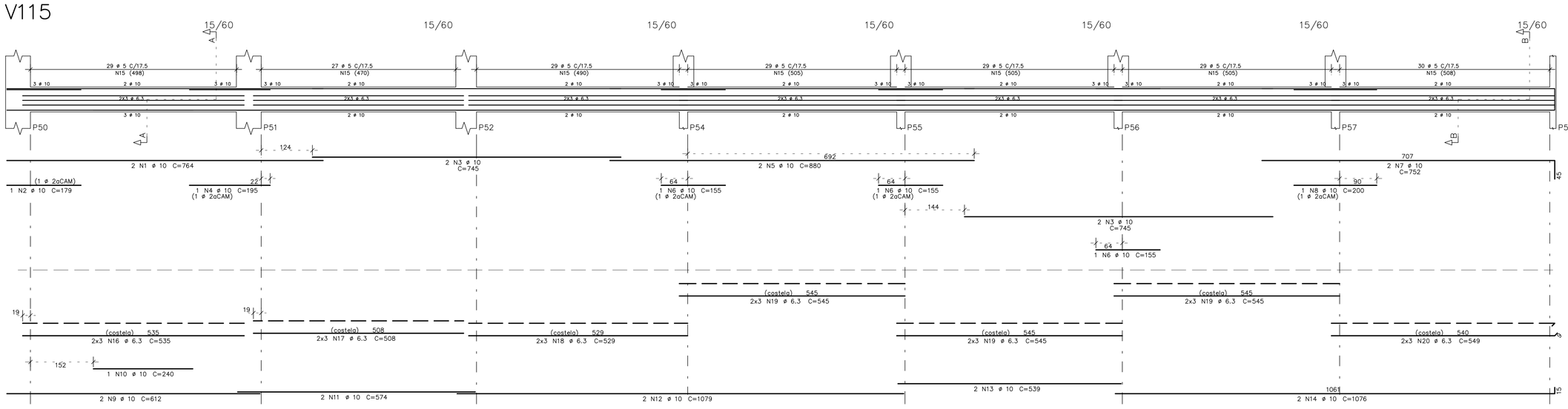
V117



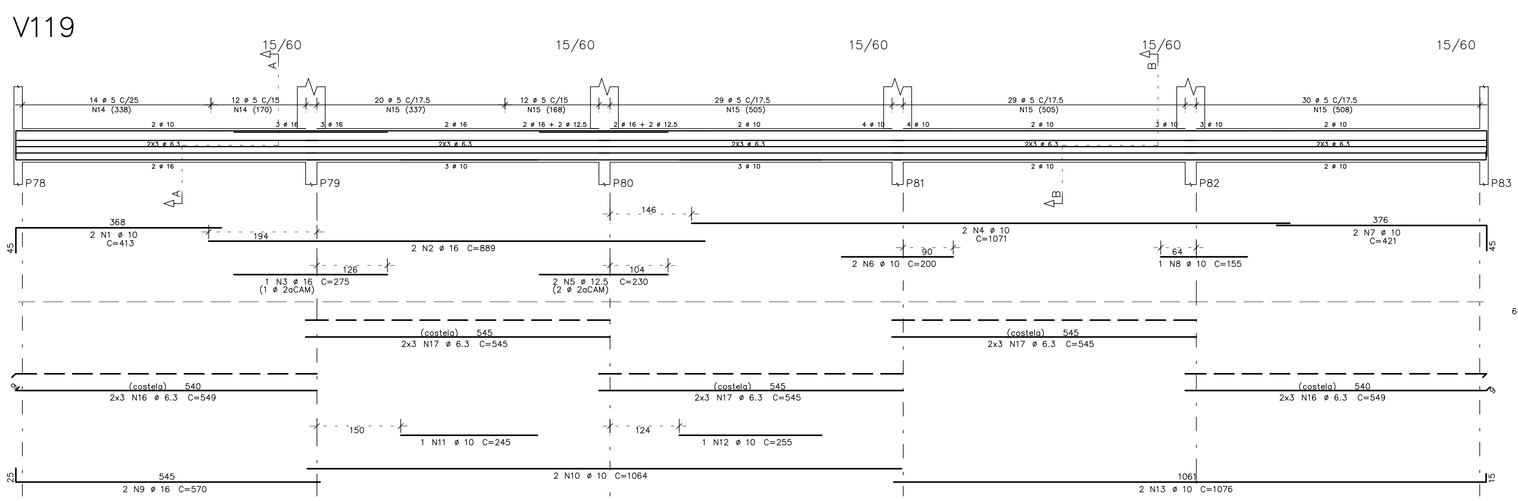
V118



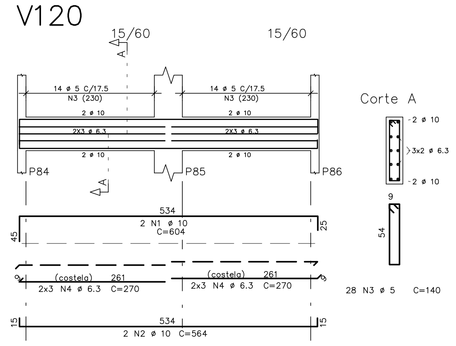
V115



V119



V120



AÇO	POS	BIT (mm)	QUANT	COMPRIMENTO UNIT (cm)	COMPRIMENTO TOTAL (cm)
V112					
50A	1	10	2	764	1528
50A	2	10	2	179	358
50A	3	10	2	745	1490
50A	4	10	2	195	390
50A	5	10	2	880	1760
50A	6	10	2	746	1492
50A	7	10	2	751	1502
50A	8	10	2	612	1224
50A	9	10	1	230	230
50A	10	10	4	574	2296
50A	11	10	4	569	2276
50A	12	10	2	581	1162
50A	13	10	2	569	1138
50A	14	10	1	365	365
60B	15	5	194	140	27160
50A	16	6.3	6	535	3210
50A	17	6.3	12	508	6096
50A	18	6.3	12	513	6156
50A	19	6.3	6	505	3030
50A	20	6.3	6	525	3150
V113					
50A	1	10	2	679	1358
50A	2	10	2	617	1234
50A	3	10	1	495	495
60B	4	5	33	140	4620
50A	5	6.3	6	607	3642
V114					
50A	1	10	2	465	930
50A	2	16	2	265	530
50A	3	10	2	649	1298
50A	4	10	1	315	315
60B	5	5	35	130	4550
V115					
50A	1	10	2	764	1528
50A	2	10	1	179	179
50A	3	10	4	745	2980
50A	4	10	1	195	195
50A	5	10	2	880	1760
50A	6	10	3	155	465
50A	7	10	2	752	1504
50A	8	10	1	200	200
50A	9	10	2	612	1224
50A	10	10	1	240	240
50A	11	10	2	574	1148
50A	12	10	2	1079	2158
50A	13	10	2	539	1078
50A	14	10	2	1076	2152
60B	15	5	202	140	28280
50A	16	6.3	6	535	3210
50A	17	6.3	6	508	3048
50A	18	6.3	6	529	3174
50A	19	6.3	18	545	9810
50A	20	6.3	6	549	3294
V117					
60B	1	5	2	571	1142
50A	2	10	3	567	1701
60B	3	5	29	130	3770
V118					
50A	1	10	2	458	916
50A	2	16	2	975	1950
50A	3	16	3	275	825
50A	4	10	2	457	914
50A	5	10	1	175	175
50A	6	10	2	604	1208
50A	7	10	2	370	740
50A	8	10	2	589	1178
50A	9	10	1	260	260
50A	10	12.5	2	608	1216
50A	11	12.5	1	420	420
60B	12	5	62	140	8680
50A	13	6.3	31	140	4340
50A	14	6.3	12	605	7260
50A	15	6.3	6	603	3618
V119					
50A	1	10	2	413	826
50A	2	16	2	889	1778
50A	3	16	1	275	275
50A	4	10	2	1071	2142
50A	5	12.5	2	230	460
50A	6	10	2	200	400
50A	7	10	2	421	842
50A	8	10	1	155	155
50A	9	16	2	570	1140
50A	10	10	2	1064	2128
50A	11	10	1	245	245
50A	12	10	1	255	255
50A	13	10	2	1076	2152
60B	14	5	26	140	3640
60B	15	5	120	140	16800
50A	16	6.3	12	549	6588
50A	17	6.3	18	545	9810
V120					
50A	1	10	2	604	1208
50A	2	10	2	564	1128
60B	3	5	28	140	3920
50A	4	6.3	12	270	3240

RESUMO AÇO CA 50-60			
AÇO	BIT (mm)	COMPR (m)	PESO (kg)
60B	5	1026	164
50A	6.3	827	207
50A	10	582	367
50A	12.5	21	21
50A	16	65	104
Peso Total	60B =		164 kg
Peso Total	50A =		698 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 02/05 — FOLHA: 17/48

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