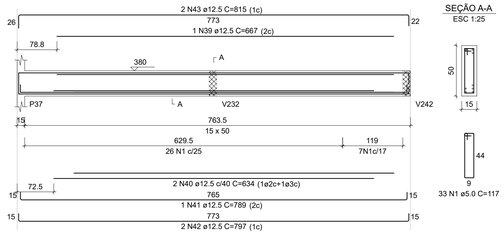
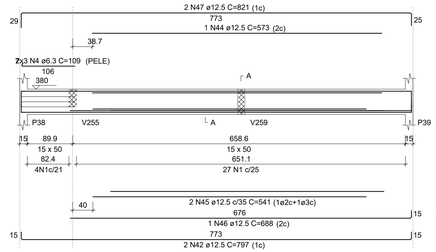
V220
ESC 1:50

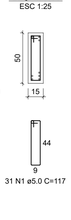


SEÇÃO A-A
ESC 1:25

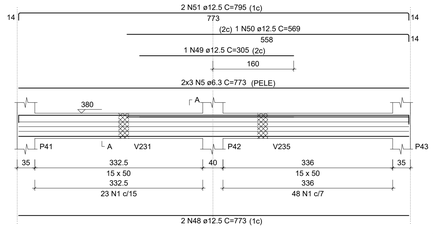
V221
ESC 1:50



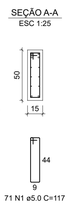
SEÇÃO A-A
ESC 1:25



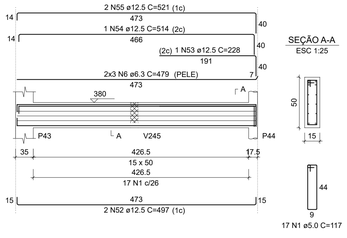
V222
ESC 1:50



SEÇÃO A-A
ESC 1:25

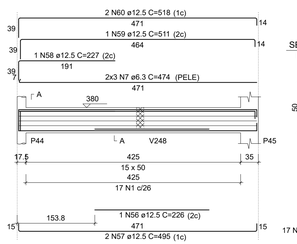


V223
ESC 1:50

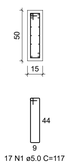


SEÇÃO A-A
ESC 1:25

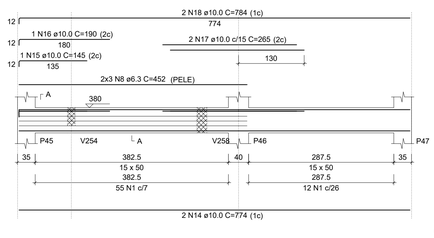
V224
ESC 1:50



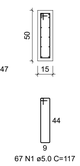
SEÇÃO A-A
ESC 1:25



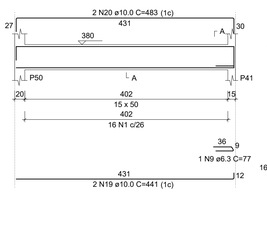
V225
ESC 1:50



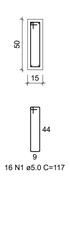
SEÇÃO A-A
ESC 1:25



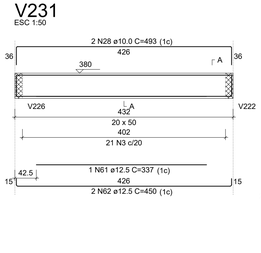
V227
ESC 1:50



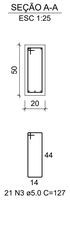
SEÇÃO A-A
ESC 1:25



V231
ESC 1:50



SEÇÃO A-A
ESC 1:25



RELAÇÃO DO AÇO

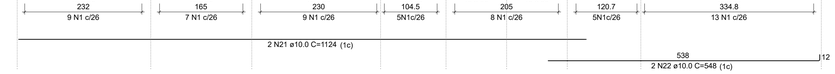
V220	V221	V222
V223	V224	V225
V227	V228	V229
V230	V231	V232
V233	V234	V235
V236	V238	V239
V240	V241	

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	460	117	53820
	2	5.0	22	87	1914
	3	5.0	42	127	5334
CA50	4	6.3	6	109	654
	5	6.3	6	773	4638
	6	6.3	6	479	2874
	7	6.3	6	474	2844
	8	6.3	6	452	2712
	9	6.3	1	77	77
	10	6.3	17	88	1496
	11	8.0	2	149	298
	12	8.0	2	163	326
	13	8.0	2	273	546
	14	10.0	2	774	1548
	15	10.0	1	145	145
	16	10.0	1	190	190
	17	10.0	2	265	530
	18	10.0	2	784	1568
	19	10.0	2	441	882
	20	10.0	2	483	966
	21	10.0	2	1124	2248
	22	10.0	2	548	1096
	23	10.0	2	1198	2396
	24	10.0	2	495	990
	25	10.0	2	177	354
	26	10.0	3	119	357
	27	10.0	2	189	378
	28	10.0	2	493	986
	29	10.0	2	237	474
	30	10.0	2	195	390
	31	10.0	2	559	1118
	32	10.0	2	217	434
	33	10.0	1	115	115
	34	10.0	2	242	484
	35	10.0	2	181	362
	36	10.0	2	237	474
	37	10.0	3	103	309
	38	10.0	3	450	1350
	39	12.5	1	667	667
	40	12.5	2	634	1268
	41	12.5	1	789	789
	42	12.5	4	797	3188
	43	12.5	2	815	1630
	44	12.5	1	573	573
	45	12.5	2	541	1082
	46	12.5	1	688	688
	47	12.5	2	821	1642
	48	12.5	2	773	1546
	49	12.5	1	305	305
	50	12.5	1	569	569
	51	12.5	2	795	1590
	52	12.5	2	497	994
	53	12.5	1	228	228
	54	12.5	1	514	514
	55	12.5	2	521	1042
	56	12.5	1	226	226
	57	12.5	2	495	990
	58	12.5	1	227	227
	59	12.5	1	511	511
	60	12.5	2	518	1036
	61	12.5	1	337	337
	62	12.5	4	450	1800
	63	12.5	4	502	2008
	64	12.5	2	750	1500
	65	12.5	2	224	448
	66	12.5	1	216	216
	67	12.5	1	277	277
	68	12.5	2	281	562
	69	12.5	2	807	1614
	70	12.5	2	551	1102
	71	12.5	2	245	490
	72	12.5	2	605	1210
	73	12.5	1	306	306
	74	12.5	2	383	766
	75	12.5	2	417	834
	76	12.5	1	342	342
	77	12.5	2	493	986
	78	12.5	2	254	508
	79	12.5	1	261	261
	80	12.5	1	294	294
	81	12.5	2	309	618
	82	12.5	2	549	1098
	83	12.5	1	223	223
	84	12.5	2	485	970

Obs:
01 - Planta de locação geral por ser encontrada no projeto arquitetônico, prancha 02/14;
02 - Todo espaçamento entre barras deverá ser respeitado;
03 - Cobrimento mínimo para fundações = 3cm / Cobrimento mínimo para demais elementos = 2,5cm;
04 - Todos os elementos de concreto deverão ser adensados de forma mecânizada (mangote), não é admitido adensamento manual;
05 - Prazos para desforma-> Pilares e faces laterais de vigas: 3 dias;
Face inferior de vigas: 14 dias;
Lajes: 21 dias;
Vigas com vãos superiores a 7m: 28 dias;
06 - Em vigas e lajes o processo de desforma deverá ocorrer do centro para as extremidades;
07 - Todas as lajes deverão receber uma armadura de distribuição (para combater fissuração superficial) com espaçamento de 25x25, aço 5.0mm;
08 - Toda laje deverá receber cura hidráulica por no mínimo 07 dias;

Aprovações

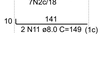
V228
ESC 1:50



SEÇÃO A-A
ESC 1:25



V229
ESC 1:50



SEÇÃO A-A
ESC 1:25



SUSPENSÃO V210
ESC 1:25

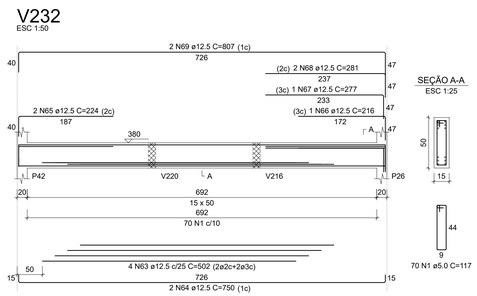
V230
ESC 1:50



SEÇÃO A-A
ESC 1:25

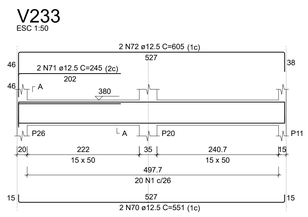


V232
ESC 1:50

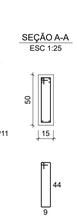


SEÇÃO A-A
ESC 1:25

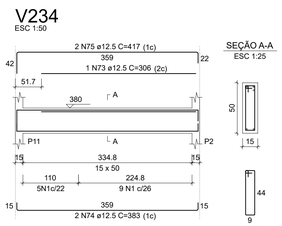
V233
ESC 1:50



SEÇÃO A-A
ESC 1:25

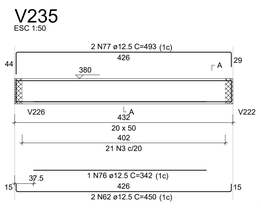


V234
ESC 1:50

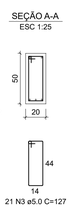


SEÇÃO A-A
ESC 1:25

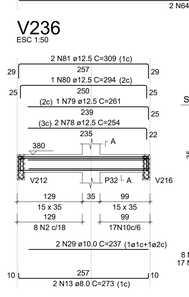
V235
ESC 1:50



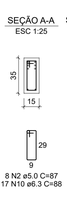
SEÇÃO A-A
ESC 1:25



V236
ESC 1:50



SEÇÃO A-A
ESC 1:25



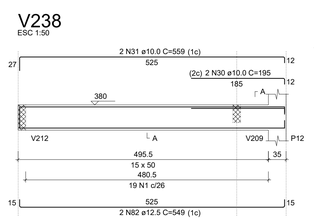
SUSPENSÃO V212
ESC 1:25



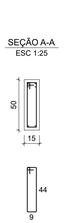
SUSPENSÃO V216
ESC 1:25



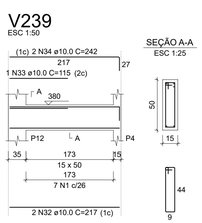
V238
ESC 1:50



SEÇÃO A-A
ESC 1:25

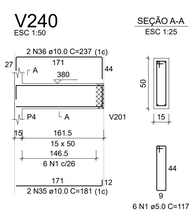


V239
ESC 1:50



SEÇÃO A-A
ESC 1:25

V240
ESC 1:50



SEÇÃO A-A
ESC 1:25

V241
ESC 1:50

SEÇÃO A-A
ESC 1:25

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	153	41.2
	8.0	11.7	5.1
	10.0	201.4	136.6
	12.5	400.8	424.7
CA60	5.0	610.7	103.5
PESO TOTAL (kg)			
CA50	607.5		
CA60	103.5		

Volume de concreto (C-25) = 7.99 m³
Área de forma = 119.91 m²

REALIZE
ARQUITETURA E ENGENHARIA

Contato
48 35270090
realize_eng@hotmail.com
realize_arq@hotmail.com

Responsável Técnico
Rafael Nuernberg
CREA - SC 129.640-7
Suéllen M. Costa Palmas
CAU - SC: A69267-0
EMPRESA = CREA - SC 136340-7

Projeto Educacional

Endereço : Rua Antônio Manoel Rocha, Espigão Grande - Maracajá / SC

Projeto Estrutural - Bloco Norte

Vigas - cobertura;

Realize Arquitetura e Engenharia
CREA-SC 136.340-4

Prefeitura Municipal de Maracajá
CNPJ nº 82.915.026/0001-24

Escala	Data	ÁREA	Prancha
Indicada	10 . 11 . 2021	367,01m²	11/16