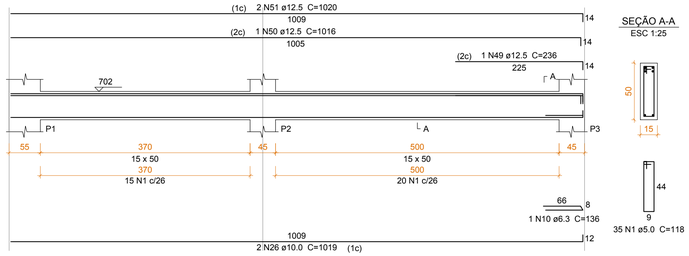
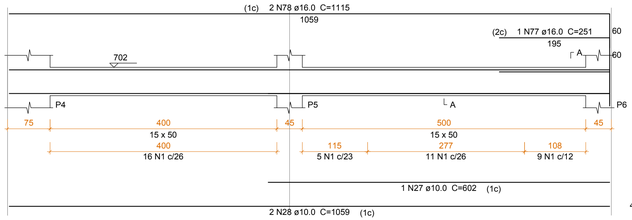
V1
ESC 1:50

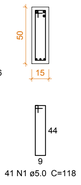


SEÇÃO A-A
ESC 1:25

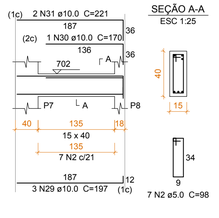
V2
ESC 1:50



SEÇÃO A-A
ESC 1:25

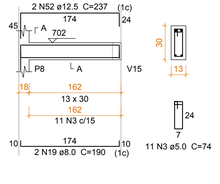


V3
ESC 1:50



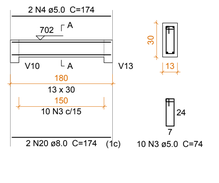
SEÇÃO A-A
ESC 1:25

V4
ESC 1:50



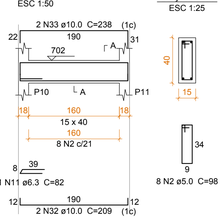
SEÇÃO A-A
ESC 1:25

V5
ESC 1:50



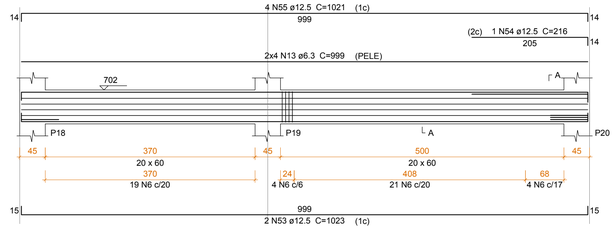
SEÇÃO A-A
ESC 1:25

V6
ESC 1:50

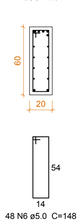


SEÇÃO A-A
ESC 1:25

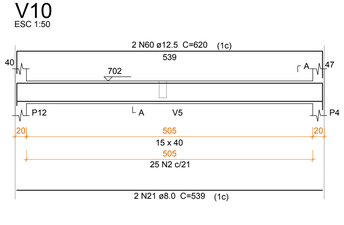
V8
ESC 1:50



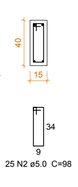
SEÇÃO A-A
ESC 1:25



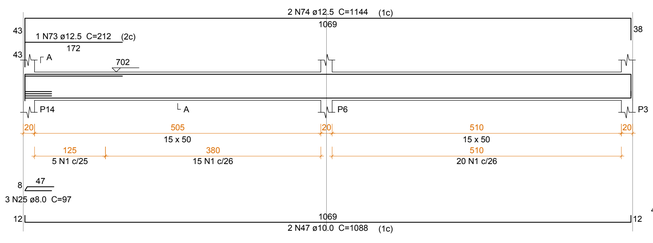
V10
ESC 1:50



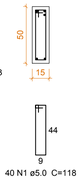
SEÇÃO A-A
ESC 1:25



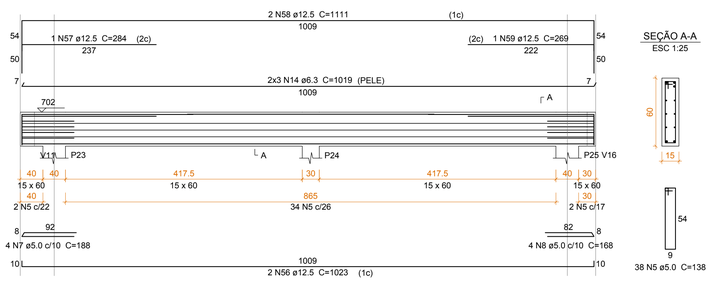
V17
ESC 1:50



SEÇÃO A-A
ESC 1:25

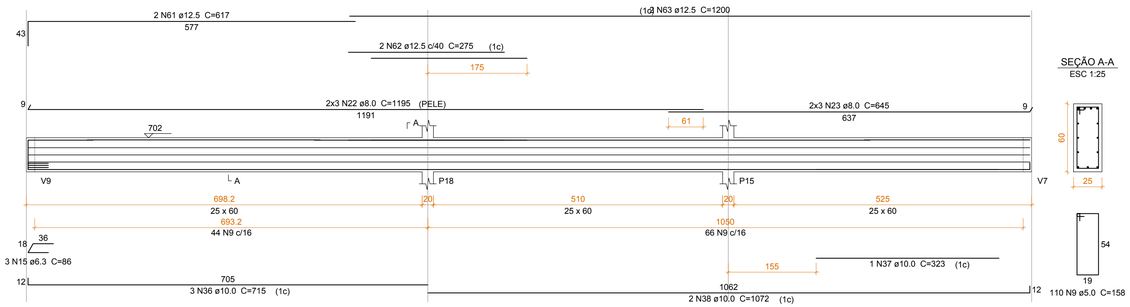


V9
ESC 1:50



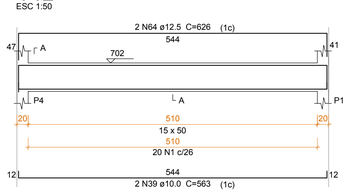
SEÇÃO A-A
ESC 1:25

V11
ESC 1:50

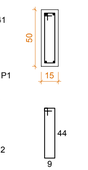


SEÇÃO A-A
ESC 1:25

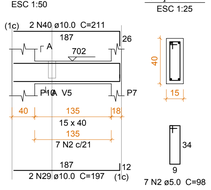
V12
ESC 1:50



SEÇÃO A-A
ESC 1:25

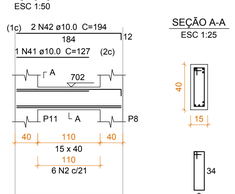


V13
ESC 1:50



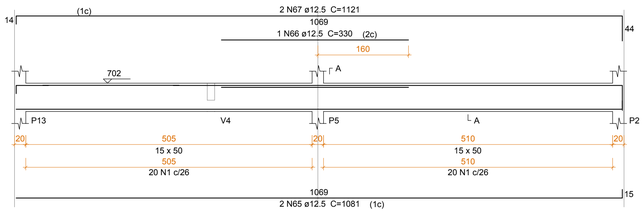
SEÇÃO A-A
ESC 1:25

V14
ESC 1:50

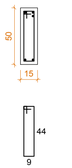


SEÇÃO A-A
ESC 1:25

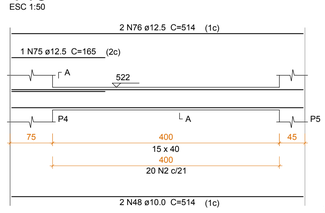
V15
ESC 1:50



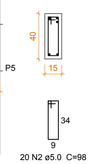
SEÇÃO A-A
ESC 1:25



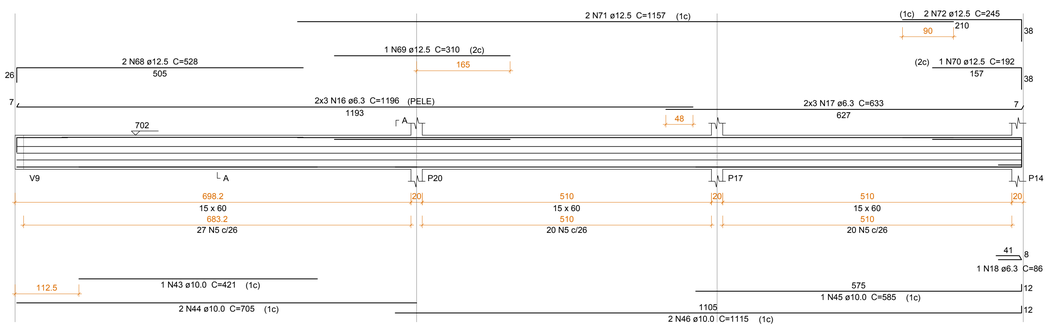
V18
ESC 1:50



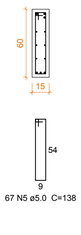
SEÇÃO A-A
ESC 1:25



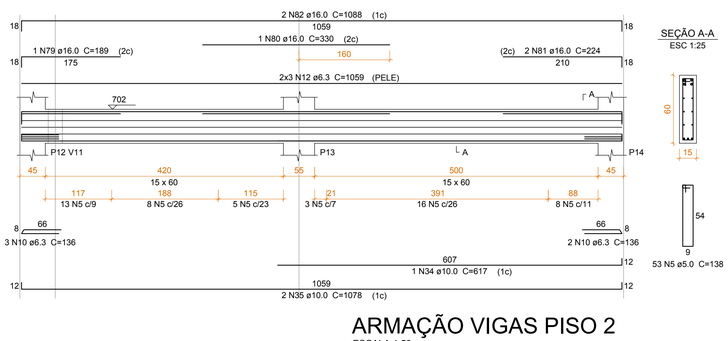
V16
ESC 1:50



SEÇÃO A-A
ESC 1:25



V7
ESC 1:50



SEÇÃO A-A
ESC 1:25

ARMAÇÃO VIGAS PISO 2
ESCALA 1:50

Relação do aço

V1	V2	V3
V4	V5	V6
V7	V8	V9
V10	V11	V12
V13	V14	V15
V16	V17	V18

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	176	118	20768
	2	5.0	73	98	7154
	3	5.0	21	74	1554
	4	5.0	2	174	348
	5	5.0	158	138	21804
	6	5.0	48	148	7104
	7	5.0	4	188	752
	8	5.0	4	168	672
	9	5.0	110	158	17380
CA50	10	6.3	6	136	816
	11	6.3	1	82	82
	12	6.3	6	1059	6354
	13	6.3	8	999	7992
	14	6.3	6	1019	6114
	15	6.3	3	86	258
	16	6.3	6	1196	7176
	17	6.3	6	633	3798
	18	6.3	1	86	86
	19	8.0	2	190	380
	20	8.0	2	174	348
	21	8.0	2	539	1078
	22	8.0	6	1195	7170
	23	8.0	6	645	3870
	24	8.0	4	184	736
	25	8.0	3	97	291
	26	10.0	2	1019	2038
	27	10.0	1	602	602
	28	10.0	2	1059	2118
	29	10.0	5	197	985
	30	10.0	1	170	170
	31	10.0	2	221	442
	32	10.0	2	209	418
	33	10.0	2	238	476
	34	10.0	1	617	617
	35	10.0	2	1078	2156
	36	10.0	3	715	2145
	37	10.0	1	323	323
	38	10.0	2	1072	2144
	39	10.0	2	563	1126
	40	10.0	2	211	422
	41	10.0	1	127	127
	42	10.0	2	194	388
	43	10.0	1	421	421
	44	10.0	2	705	1410
	45	10.0	1	585	585
	46	10.0	2	1115	2230
	47	10.0	2	1088	2176
	48	10.0	2	514	1028
	49	12.5	1	236	236
	50	12.5	1	1016	1016
	51	12.5	2	1020	2040
	52	12.5	2	237	474
	53	12.5	2	1023	2046
	54	12.5	1	216	216
	55	12.5	4	1021	4084
	56	12.5	2	1023	2046
	57	12.5	1	284	284
	58	12.5	2	1111	2222
	59	12.5	1	269	269
	60	12.5	2	620	1240
	61	12.5	2	617	1234
	62	12.5	2	275	550
	63	12.5	2	1200	2400
	64	12.5	2	626	1252
	65	12.5	2	1081	2162
	66	12.5	1	330	330
	67	12.5	2	1121	2242
	68	12.5	2	528	1056
	69	12.5	1	310	310
	70	12.5	1	192	192
	71	12.5	2	1157	2314
	72	12.5	2	245	490
	73	12.5	1	212	212
	74	12.5	2	1144	2288
	75	12.5	1	165	165
	76	12.5	2	514	1028
	77	16.0	1	251	251
	78	16.0	2	1115	2230
	79	16.0	1	189	189
	80	16.0	1	330	330
	81	16.0	2	224	448
	82	16.0	2	1088	2176

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	326.8	88
	8.0	138.8	60.2
	10.0	245.5	166.5
	12.5	344	364.5
	16.0	56.3	97.6
CA60	5.0	775.4	131.5

PESO TOTAL (kg)	
CA50	776.8
CA60	131.5

Volume de concreto (C-25) = 12.15 m³
Área de forma = 166.90 m²

Revisão	Descrição	Data	Responsável
1	Revisão 01 - Mudança na Escada	07/2017	RCB
0	Emissão Inicial	06/2017	RCB

AMFRI - ASSOCIAÇÃO DOS MUNICÍPIOS DA REGIÃO DA FOZ DO RIO ITAJAÍ
Rua Luiz Lopes Gonzaga, nº 1655 - Bairro São Vicente - Itajaí-SC - CREA/SC nº 050968-0

AMFRI

Estado de Santa Catarina
BOMBEIRO MILITAR DE SANTA CATARINA

Data: Junho/2017
Escala: Indicada
Arquivo: -

Projeto: ESTRUTURAL
AMPLIAÇÃO DO 7°B.B.M EM ITAJAÍ
Local: Av Sete de Setembro, 1878
Bairro Fazenda - Itajaí

Conteúdo da folha: Armação vigas piso 2
Estatística
Área a construir: 870,90m²

Desenho: Rafael B.
ART: -
Folha: 15/21

7º Batalhão de Bombeiro Militar em Itajaí / SC
Comandante do 7º B.B.M.

Projeto
Rafael Calistro Borba
Eng Civil - CREA SC 093.243-9