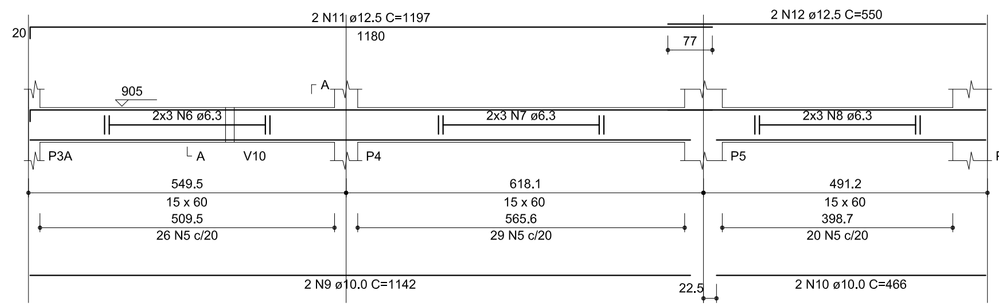
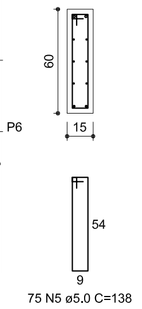
VIGAS - SUBSOLO

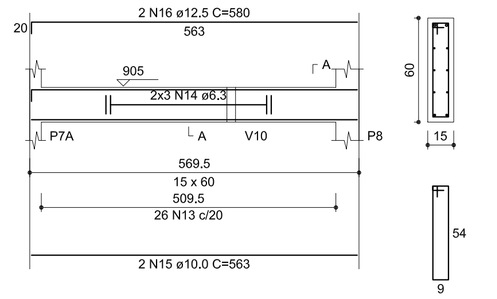
V2 (15 x 60)
ESC 1:75



SEÇÃO A-A
ESC 1:25

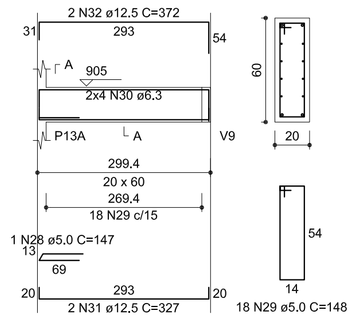


V3 (15 x 60)
ESC 1:75



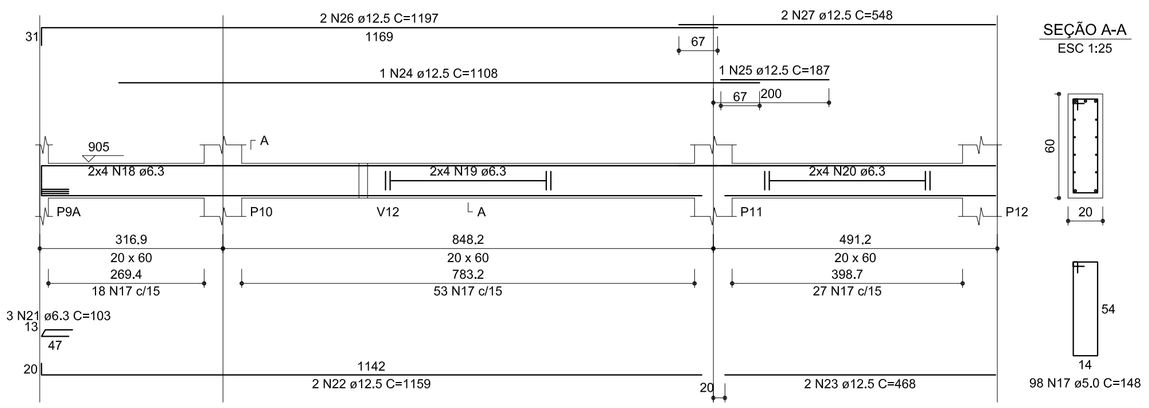
SEÇÃO A-A
ESC 1:25

V5 (20 x 60)
ESC 1:75



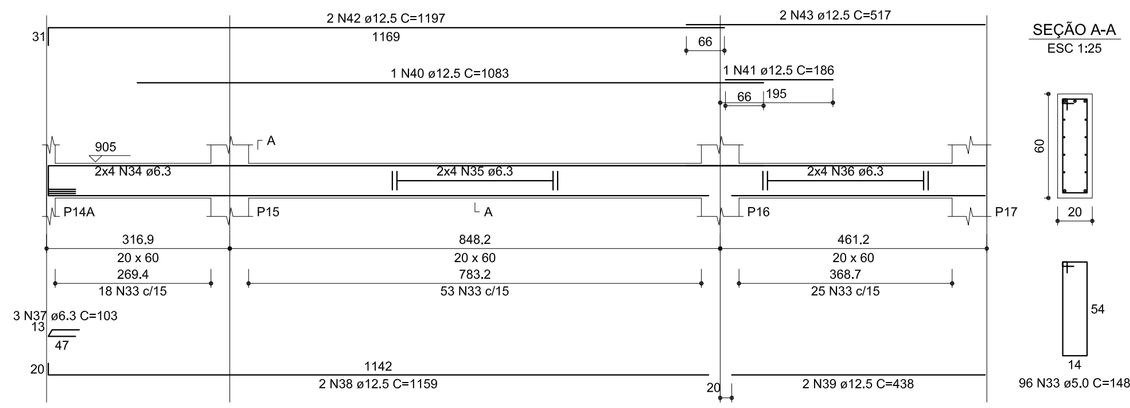
SEÇÃO A-A
ESC 1:25

V4 (20 x 60)
ESC 1:75



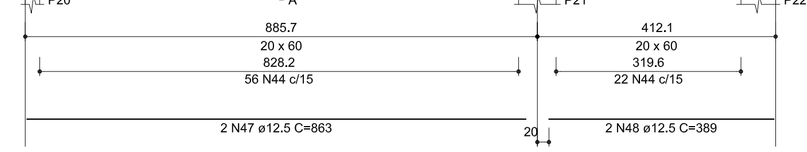
SEÇÃO A-A
ESC 1:25

V6 (20 x 60)
ESC 1:75

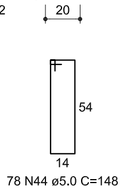


SEÇÃO A-A
ESC 1:25

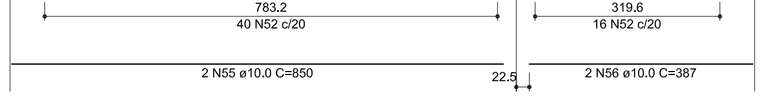
V7 (20 x 60)
ESC 1:75



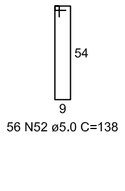
SEÇÃO A-A
ESC 1:25



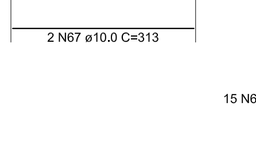
V8 (15 x 60)
ESC 1:75



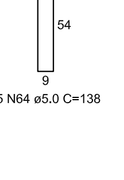
SEÇÃO A-A
ESC 1:25



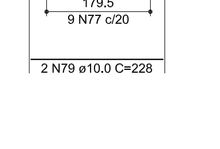
V10 (15 x 60)
ESC 1:75



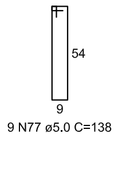
SEÇÃO A-A
ESC 1:25



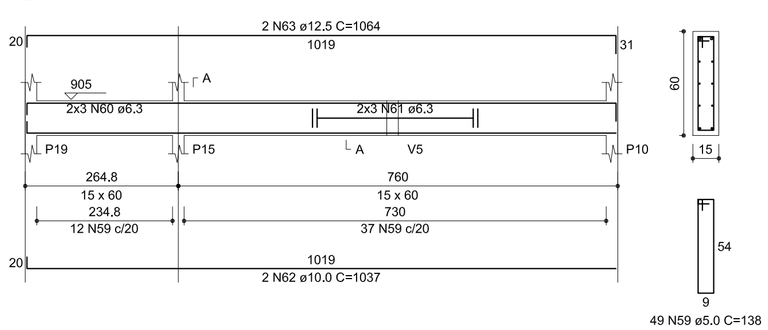
V13 (15 x 60)
ESC 1:75



SEÇÃO A-A
ESC 1:25

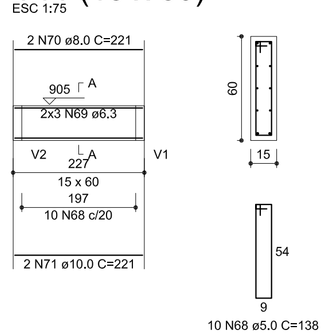


V9 (15 x 60)
ESC 1:75



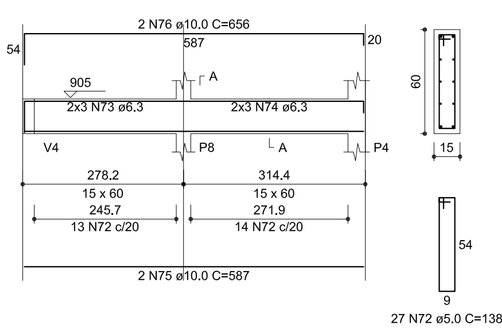
SEÇÃO A-A
ESC 1:25

V11 (15 x 60)
ESC 1:75

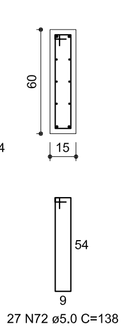


SEÇÃO A-A
ESC 1:25

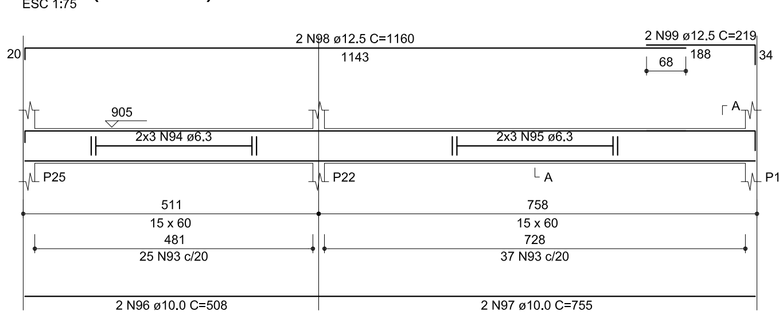
V12 (15 x 60)
ESC 1:75



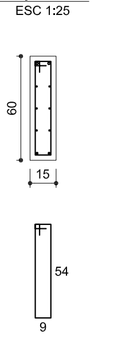
SEÇÃO A-A
ESC 1:25



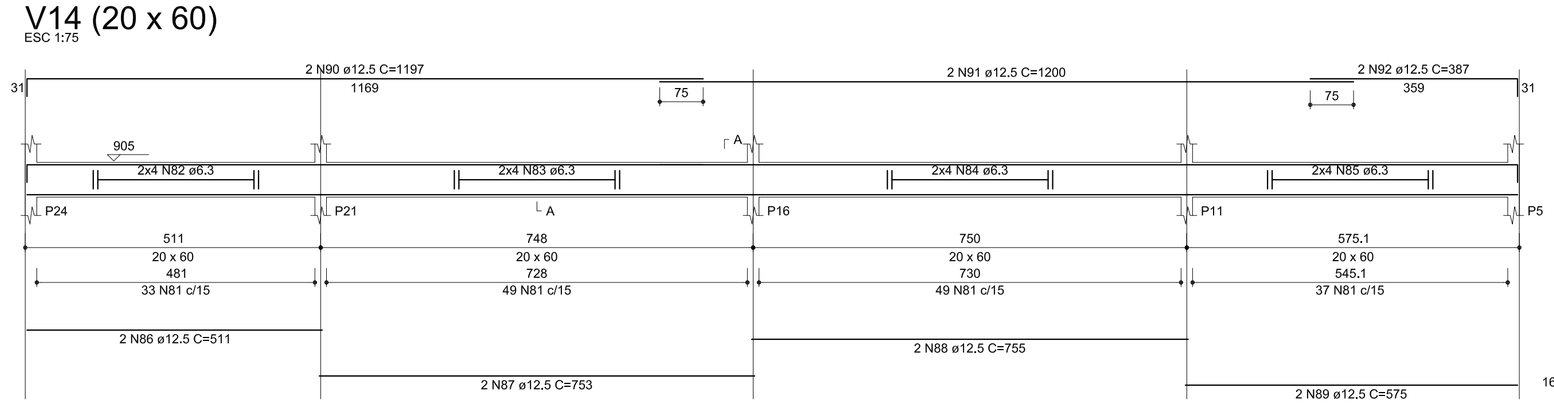
V15 (15 x 60)
ESC 1:75



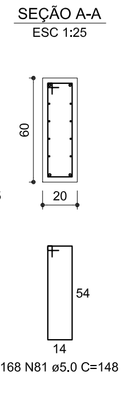
SEÇÃO A-A
ESC 1:25



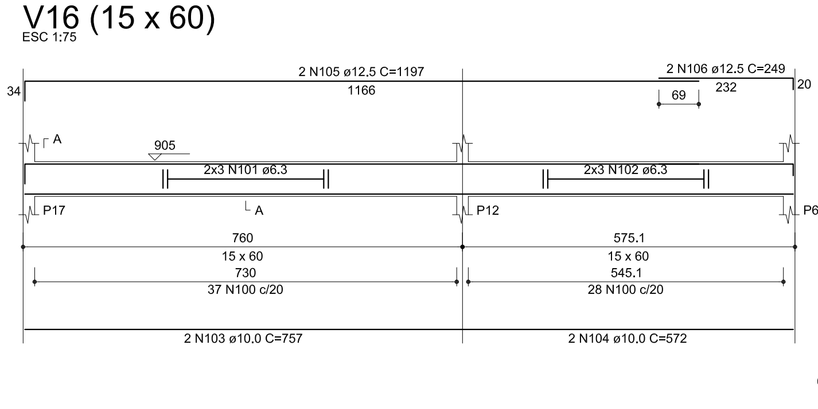
V14 (20 x 60)
ESC 1:75



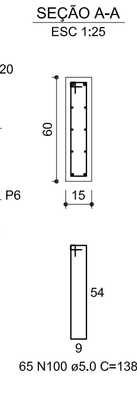
SEÇÃO A-A
ESC 1:25



V16 (15 x 60)
ESC 1:75



SEÇÃO A-A
ESC 1:25



Relação do aço

ELEMENTO	AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
V2	CA60	5	5.0	75	138	10350
	CA50	6	6.3	6	CORR	3378
	CA50	7	6.3	6	CORR	3990
	CA50	8	6.3	6	CORR	3108
	CA50	9	10.0	2	1142	2284
	CA50	10	10.0	2	466	932
	CA50	11	12.5	2	1197	2394
	CA50	12	12.5	2	550	1100
V3	CA60	13	5.0	26	138	3588
	CA50	14	6.3	6	CORR	3378
	CA50	15	10.0	2	563	1126
	CA50	16	12.5	2	580	1160
V4	CA60	17	5.0	98	148	14504
	CA50	18	6.3	8	CORR	2744
	CA50	19	6.3	8	CORR	7256
	CA50	20	6.3	8	CORR	4144
	CA50	21	6.3	3	103	309
	CA50	22	12.5	2	1159	2318
	CA50	23	12.5	2	468	936
	CA50	24	12.5	1	1108	1108
	CA50	25	12.5	1	187	187
	CA50	26	12.5	2	1197	2394
	CA50	27	12.5	2	548	1096
V5	CA60	28	5.0	1	147	147
	CA60	29	5.0	18	148	2664
	CA50	30	6.3	8	CORR	2344
	CA50	31	12.5	2	327	654
	CA50	32	12.5	2	372	744
V6	CA60	33	5.0	96	148	14208
	CA50	34	6.3	8	CORR	2744
	CA50	35	6.3	8	CORR	7256
	CA50	36	6.3	8	CORR	3904
	CA50	37	6.3	3	103	309
	CA50	38	12.5	2	1159	2318
	CA50	39	12.5	2	438	876
	CA50	40	12.5	1	1083	1083
	CA50	41	12.5	1	186	186
	CA50	42	12.5	2	1197	2394
	CA50	43	12.5	2	517	1034
V7	CA60	44	5.0	78	148	11544
	CA50	45	6.3	8	CORR	7296
	CA50	46	6.3	8	CORR	3512
	CA50	47	12.5	2	863	1726
	CA50	48	12.5	2	389	778
	CA50	49	12.5	1	420	420
	CA50	50	12.5	2	1197	2394
	CA50	51	12.5	2	218	436
V8	CA60	52	5.0	56	138	7728
	CA50	53	6.3	6	CORR	5412
	CA50	54	6.3	6	CORR	2634
	CA50	55	10.0	2	850	1700
	CA50	56	10.0	2	387	774
	CA50	57	12.5	2	1162	2324
	CA50	58	12.5	2	204	408
V9	CA60	59	5.0	49	138	6762
	CA50	60	6.3	6	CORR	1614
	CA50	61	6.3	6	CORR	4584
	CA50	62	10.0	2	1037	2074
	CA50	63	12.5	2	1064	2128
V10	CA60	64	5.0	15	138	2070
	CA50	65	6.3	6	CORR	1878
	CA50	66	8.0	2	313	626
	CA50	67	10.0	2	313	626
V11	CA60	68	5.0	10	138	1380
	CA50	69	6.3	6	CORR	1326
	CA50	70	8.0	2	221	442
	CA50	71	10.0	2	221	442
V12	CA60	72	5.0	27	138	3726
	CA50	73	6.3	6	CORR	1710
	CA50	74	6.3	6	CORR	1926
	CA50	75	10.0	2	587	1174
	CA50	76	10.0	2	656	1312
V13	CA60	77	5.0	9	138	1242
	CA50	78	6.3	6	CORR	1368
	CA50	79	10.0	2	228	456
	CA50	80	10.0	2	263	526
V14	CA60	81	5.0	168	148	24864
	CA50	82	6.3	8	CORR	4120
	CA50	83	6.3	8	CORR	6096
	CA50	84	6.3	8	CORR	6112
	CA50	85	6.3	8	CORR	4632
	CA50	86	12.5	2	511	1022
	CA50	87	12.5	2	753	1506
	CA50	88	12.5	2	755	1510
	CA50	89	12.5	2	575	1150
	CA50	90	12.5	2	1197	2394
	CA50	91	12.5	2	1200	2400
	CA50	92	12.5	2	387	774
V15	CA60	93	5.0	62	138	8556
	CA50	94	6.3	6	CORR	3090
	CA50	95	6.3	6	CORR	4572
	CA50	96	10.0	2	508	1016
	CA50	97	10.0	2	755	1510
	CA50	98	12.5	2	1160	2320
	CA50	99	12.5	2	219	438
V16	CA60	100	5.0	65	138	8970
	CA50	101	6.3	6	CORR	4584
	CA50	102	6.3	6	CORR	3474
	CA50	103	10.0	2	757	1514
	CA50	104	10.0	2	572	1144
	CA50	105	12.5	2	1197	2394
	CA50	106	12.5	2	249	498

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	6.3	1181.7	289.2
	8.0	10.7	4.2
	10.0	197.4	121.7
	12.5	501.3	482.9
CA60	5.0	1257.6	193.8
PESO TOTAL (kg)			
CA50	897.9		
CA60	193.8		

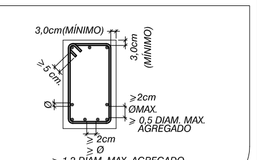
Volume de concreto (C-30) = 17.13 m³
Área de forma = 227.14 m²

NOTAS

1º) O CONCRETO ADOTADO
Classe 30 (C30) - FCK30Mpa
Consumo mínimo de cimento = 280kg/m3
Relação água/cimento < 0,50

2º) VERIFICAR TODAS AS MEDIDAS NA OBRA

3º) CONSULTAR EM CASO DE DUVIDAS



Nº	Registro de Modificações	Visto	Data
2	ELIMINADO VIGA V1	RAFAEL	05/09/2014
1	EMISSÃO INICIAL	RAFAEL	25/07/2014

Cliente:
Associação de Municípios do Nordeste do Estado de Santa Catarina
AMUNESC
89.204-635 - JOINVILLE - SC - Rua Max Colin, 1843 - América - Fone: 0**47 433-3927
ASSESSORIA E COORDENADORIA DE PLANEJAMENTO URBANO, MUNICIPAL E REGIONAL
home page : www.amunesc.org.br
CREA SC 48.825-4

TRABALHO CUSTEADO E REALIZADO ATRAVÉS DA ASSOCIAÇÃO DE MUNICÍPIOS DO NORDESTE DE SANTA CATARINA

Obra: PRONTO ATENDIMENTO 24 HORAS SUL - PA SUL

Endereço: RUA JOÃO DA COSTA JR. ESQ. MONSENHOR G. - BAIRRO JOÃO COSTA, JOINVILLE/SC

Projeto: PROJETO ESTRUTURAL
Data: JUL/2014
Escala: INDICADA
Desenho: RAFAEL A.F.
Coordenação: JULIANO
Conteúdo: AMPLIAÇÃO PRINCIPAL - VIGAS SUBSOLO
Prancha: EST 08/28

Elaboração:
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JULIANO PERAZZOLI
ENGº CIVIL - CREA 055.296-7
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