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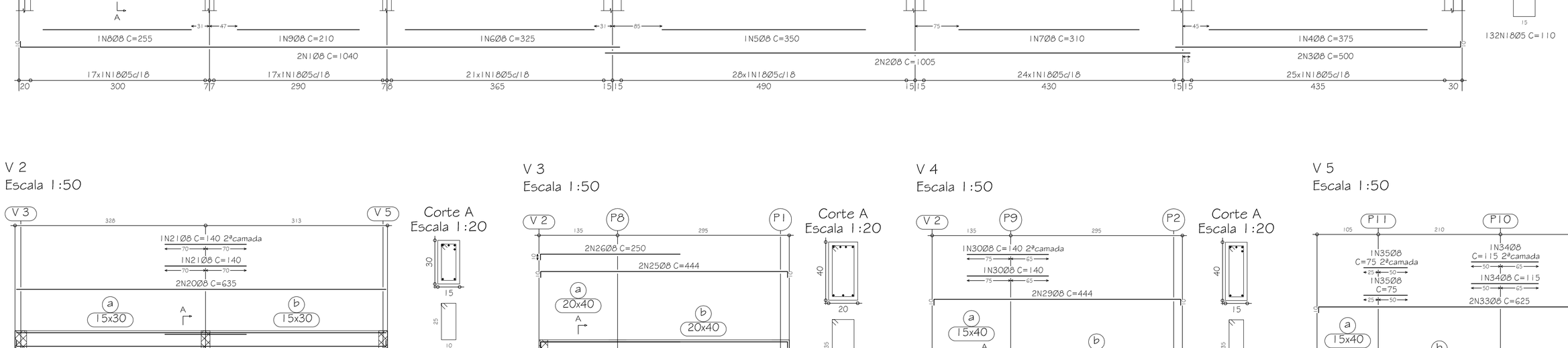
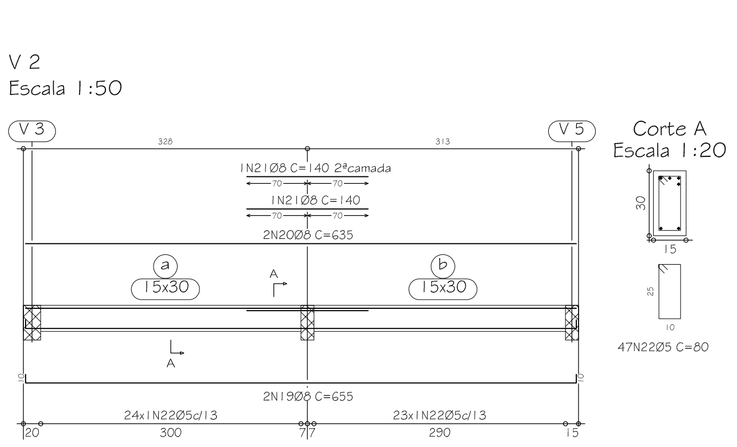
V 1
Escala 1:50



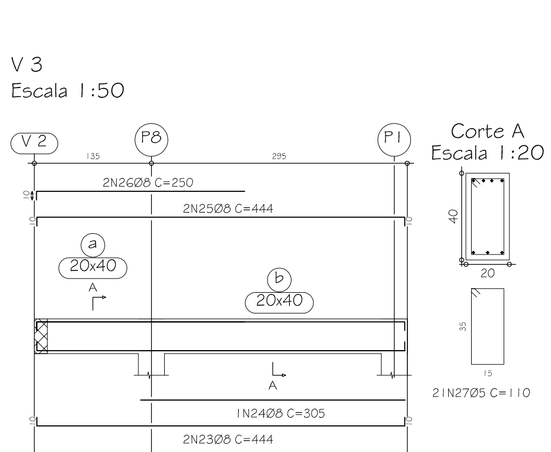
Corte A
Escala 1:20

V 2
Escala 1:50



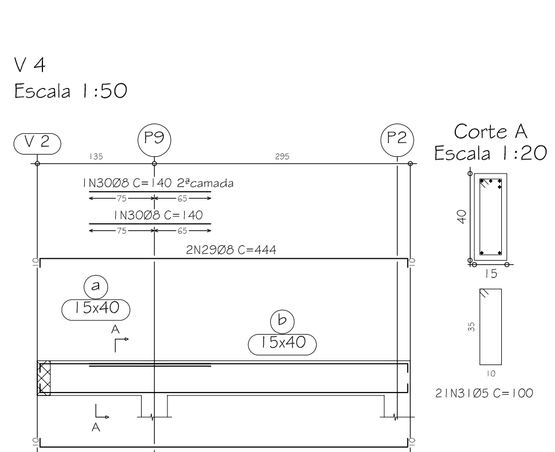
Corte A
Escala 1:20

V 3
Escala 1:50



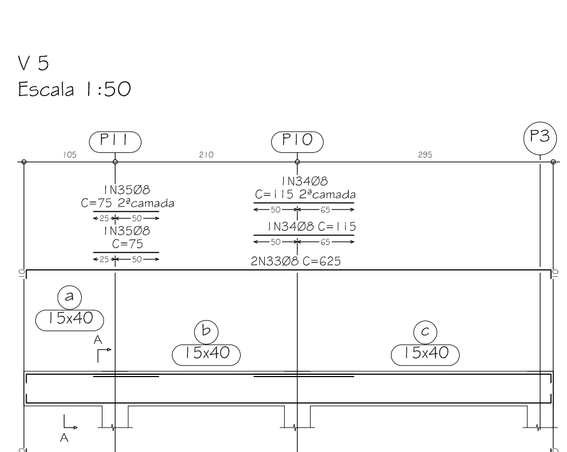
Corte A
Escala 1:20

V 4
Escala 1:50



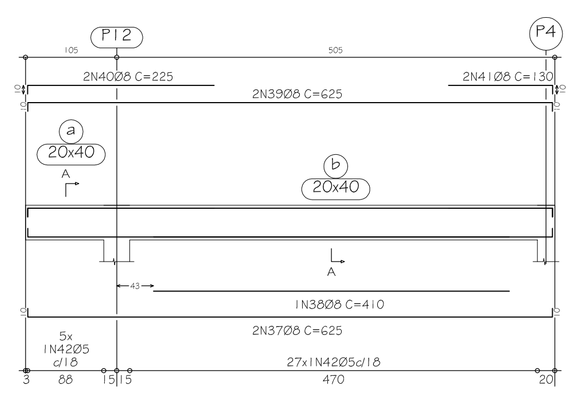
Corte A
Escala 1:20

V 5
Escala 1:50

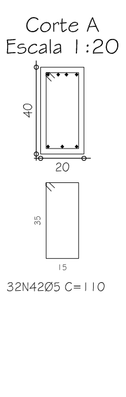


Corte A
Escala 1:20

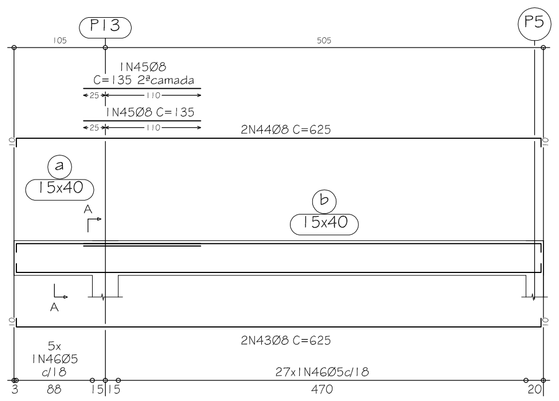
V 6
Escala 1:50



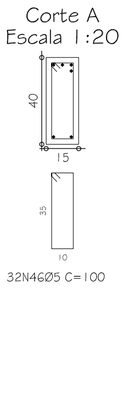
Corte A
Escala 1:20



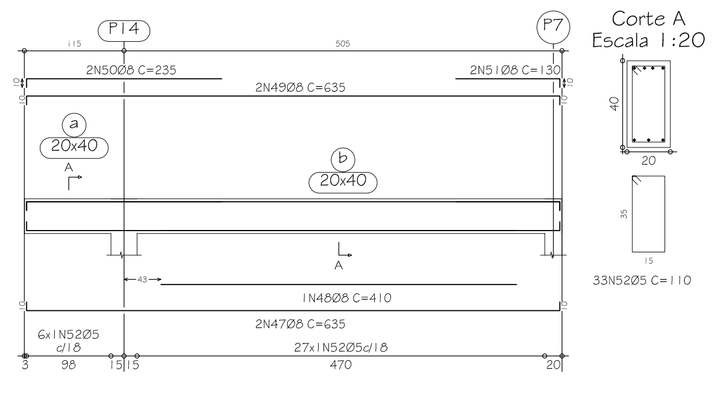
V 7
Escala 1:50



Corte A
Escala 1:20



V 8
Escala 1:50



Corte A
Escala 1:20

Detalhamento Vigas Cobertura
Escala 1:50

INSTRUÇÕES

Elemento	Pos.	Diam.	Q.	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
V1	1	Ø8	2	1045	2090	8.2	
	2	Ø8	2	1005	2010	7.9	
	3	Ø8	2	500	1000	3.9	
	4	Ø8	1	375	375	1.5	
	5	Ø8	1	360	360	1.4	
	6	Ø8	1	325	325	1.2	
	7	Ø8	1	310	310	1.2	
	8	Ø8	1	255	255	1.0	
	9	Ø8	1	210	210	0.8	
	10	Ø8	2	1040	2080	8.2	
	11	Ø8	2	1005	2010	7.9	
	12	Ø8	2	500	1000	3.9	
	13	Ø8	2	220	440	1.7	
	14	Ø8	4	210	840	3.3	
	15	Ø8	2	160	320	1.3	
	16	Ø8	2	140	280	1.1	
	17	Ø8	2	125	250	1.0	
	18	Ø5	132	110	14520		22.8
					Total+10%:	61.2	25.1
V2	19	Ø8	2	655	1310	5.1	
	20	Ø8	2	635	1270	5.0	
	21	Ø8	2	140	280	1.1	
	22	Ø5	47	80	3760		5.9
					Total+10%:	12.3	6.5
V3	23	Ø8	2	444	888	3.5	
	24	Ø8	1	305	305	1.2	
	25	Ø8	2	444	888	3.5	
	26	Ø8	2	250	500	2.0	
	27	Ø5	21	110	2310		3.6
					Total+10%:	11.2	4.0
V4	28	Ø8	2	444	888	3.5	
	29	Ø8	2	444	888	3.5	
	30	Ø8	2	140	280	1.1	
	31	Ø5	21	100	2100		3.3
					Total+10%:	8.9	3.6
V5	32	Ø8	2	625	1250	4.9	
	33	Ø8	2	625	1250	4.9	
	34	Ø8	2	115	230	0.9	
	35	Ø8	2	75	150	0.6	
	36	Ø5	29	100	2900		4.6
					Total+10%:	12.4	5.1
V6	37	Ø8	2	625	1250	4.9	
	38	Ø8	1	410	410	1.6	
	39	Ø8	2	625	1250	4.9	
	40	Ø8	2	225	450	1.8	
	41	Ø8	2	130	260	1.0	
	42	Ø5	32	110	3520		5.5
					Total+10%:	15.6	6.1
V7	43	Ø8	2	625	1250	4.9	
	44	Ø8	2	625	1250	4.9	
	45	Ø8	2	135	270	1.1	
	46	Ø5	32	100	3200		5.0
					Total+10%:	12.0	5.5
V8	47	Ø8	2	635	1270	5.0	
	48	Ø8	1	410	410	1.6	
	49	Ø8	2	635	1270	5.0	
	50	Ø8	2	235	470	1.8	
	51	Ø8	2	130	260	1.0	
	52	Ø5	33	110	3630		5.7
					Total+10%:	15.8	6.3
					Ø5:	0.0	62.2
					Ø8:	149.4	0.0
					Total:	149.4	62.2

Resumo Aço Cobertura Vigas	Comp. total (m)	Peso+10% (kg)	Total
CA-50-A Ø8	345.8	149	149
CA-60-B Ø5	359.4	62	62
Total			211

REVISÃO:	03	00/00/0000	DESCRIÇÃO
REVISÃO:	02	00/00/0000	DESCRIÇÃO
REVISÃO:	01	10/09/2013	REVISÃO CARIMBO
EMISSÃO INICIAL:	*	DEZ/2012	EMISSÃO INICIAL

PREFEITURA MUNICIPAL DE JOINVILLE
CNPJ: 83169623/0001-10
END: Av. Herman August Lepper, nº 10, Centro.
Joinville/ SC TEL: (47) 3431-3233

COORDENAÇÃO DE PROJETOS:
SOLAR ENGENHARIA
SOLAR CONSTRUÇÕES, PROJETOS E CONSULTORIA LTDA.
CNPJ: 13.411.864/0001-48
TEL.: (31)3568-2814 BH/MG
e-mail: eken@solarengenharia.eng.br

EM CASTELO BRANCO

ÁREA DO TERRENO: 2.785,00 m²
ÁREA CONSTRUÍDA: 1.846,34 m²
ÁREA PERMEÁVEL: 0.000,00 m²

PREFEITURA MUNICIPAL DE JOINVILLE
CNPJ: 83.169.623
CONTRATANTE

EDUARDO KEN MIZUTA
CREA: 13067/D
RESPONSÁVEL TÉCNICO

ENDEREÇO:
RUA SÃO MIGUEL, 363, BOA VISTA, JOINVILLE -SC

ARQUIVO:
001-010-2012-EXE-EST-06

DETALHES:
DETALHAMENTO VIGAS COBERTURA: V1 a V8

PROJETO:
PROJETO ESTRUTURAL

DESENHISTA:
ISABELLA TEOTONIO

DATA: SET/2013
ESCALA: 1:50
FOLHA: 06/06

FORMATO A1-841X594

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