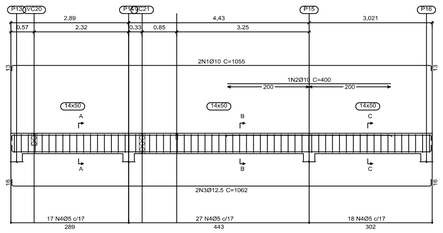
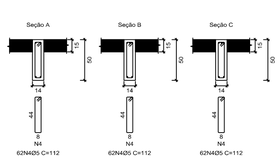
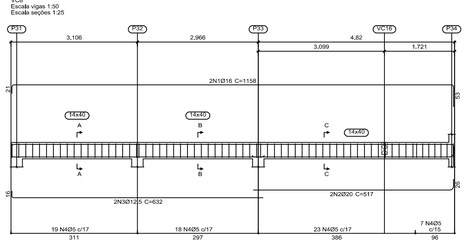
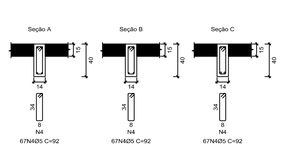
VC5
Escala vigas 1:50
Escala seções 1:25



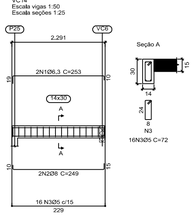


VC8
Escala vigas 1:50
Escala seções 1:25

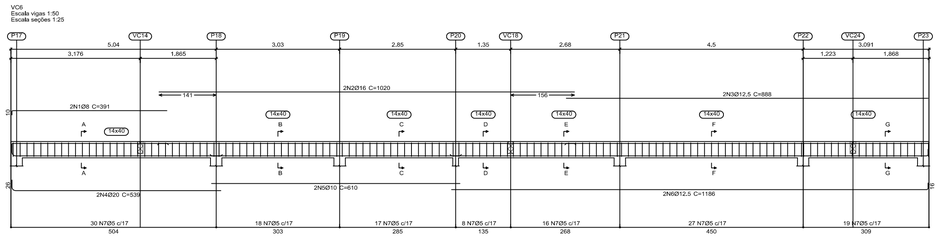


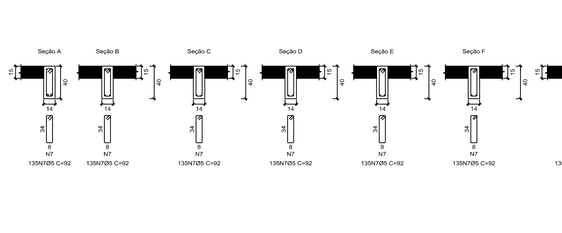


VC14
Escala vigas 1:50
Escala seções 1:25

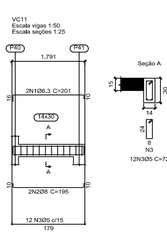


VC6
Escala vigas 1:50
Escala seções 1:25

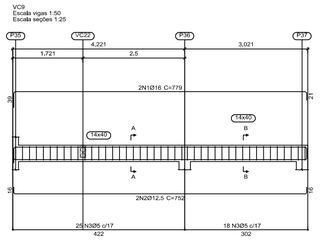


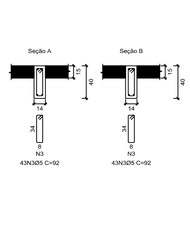


VC11
Escala vigas 1:50
Escala seções 1:25

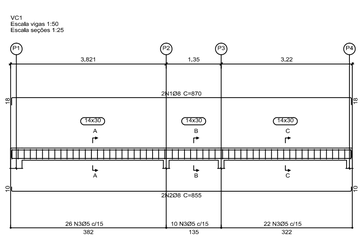


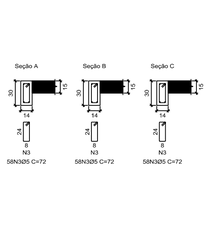
VC9
Escala vigas 1:50
Escala seções 1:25



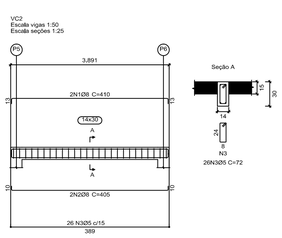


VC1
Escala vigas 1:50
Escala seções 1:25

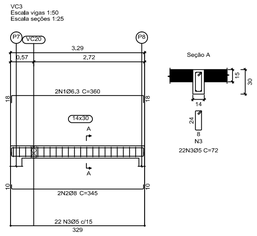




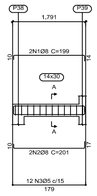
VC2
Escala vigas 1:50
Escala seções 1:25

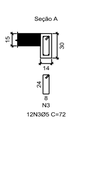


VC3
Escala vigas 1:50
Escala seções 1:25

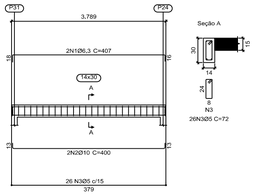


VC10
Escala vigas 1:50
Escala seções 1:25

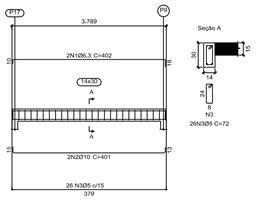




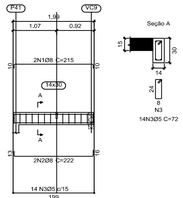
VC12
Escala vigas 1:50
Escala seções 1:25



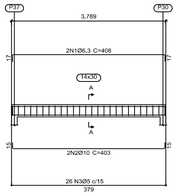
VC13
Escala vigas 1:50
Escala seções 1:25

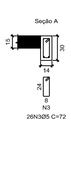


VC22
Escala vigas 1:50
Escala seções 1:25

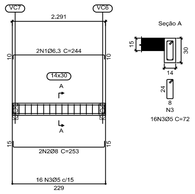


VC25
Escala vigas 1:50
Escala seções 1:25

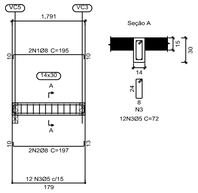




VC24
Escala vigas 1:50
Escala seções 1:25

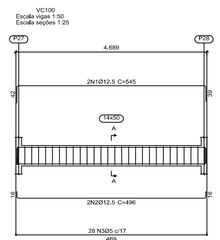


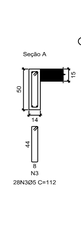
VC20
Escala vigas 1:50
Escala seções 1:25



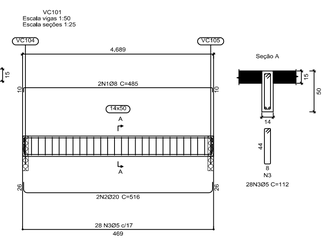
Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)
VC1	1	Ø8	2	454	870	1740	6.9
	2	Ø8	2	424	855	1710	6.8
	3	Ø5	58	72	72	4176	6.6
						Total	20.3
VC2	1	Ø8	2	384	410	820	3.2
	2	Ø8	2	382	405	810	3.2
	3	Ø5	26	72	72	1872	2.9
						Total	9.3
VC3	1	Ø6,3	2	324	360	720	1.8
	2	Ø8	2	326	345	690	2.7
	3	Ø5	22	72	72	1584	2.5
						Total	7.0
VC5	1	Ø10	2	1059	1055	2110	13.0
	2	Ø10	1	400	400	400	2.5
	3	Ø12,5	2	1009	1062	2124	20.5
	4	Ø5	62	72	112	6944	10.9
						Total	46.9
VC6	1	Ø8	2	387	391	782	3.1
	2	Ø16	2	1020	1020	2040	32.2
	3	Ø12,5	2	888	888	1776	17.1
	4	Ø20	2	513	539	1078	26.6
	5	Ø10	2	610	610	1220	7.5
	6	Ø12,5	2	1116	1186	2372	22.8
	7	Ø5	135	72	92	12420	19.5
						Total	128.8
VC8	1	Ø16	2	1064	1158	2316	36.6
	2	Ø20	2	481	517	1034	25.5
	3	Ø12,5	2	636	632	1264	12.2
	4	Ø5	67	72	92	6164	9.7
						Total	84.0
VC9	1	Ø16	2	739	779	1558	24.6
	2	Ø12,5	2	716	752	1504	14.3
	3	Ø5	43	72	92	3956	6.2
						Total	45.3
VC10	1	Ø8	2	174	199	398	1.6
	2	Ø8	2	176	201	402	1.6
	3	Ø5	12	72	72	864	1.4
						Total	4.6
VC11	1	Ø6,3	2	174	201	402	1.0
	2	Ø8	2	174	195	390	1.5
	3	Ø5	12	72	72	864	1.4
						Total	3.9
VC12	1	Ø6,3	2	377	407	814	2.0
	2	Ø10	2	376	400	800	4.9
	3	Ø5	26	72	72	1872	2.9
						Total	9.8
VC13	1	Ø6,3	2	374	402	804	2.0
	2	Ø10	2	374	401	802	4.9
	3	Ø5	26	72	72	1872	2.9
						Total	9.8
VC14	1	Ø6,3	2	254	253	506	1.2
	2	Ø8	2	254	249	498	2.0
	3	Ø5	16	72	72	1152	1.8
						Total	5.0
VC22	1	Ø8	2	156	215	430	1.7
	2	Ø8	2	194	222	444	1.8
	3	Ø5	14	72	72	1008	1.6
						Total	5.1
VC25	1	Ø6,3	2	374	408	816	2.0
	2	Ø10	2	376	403	806	5.0
	3	Ø5	26	72	72	1872	2.9
						Total	9.9
VC24	1	Ø6,3	2	254	244	488	1.2
	2	Ø8	2	254	253	506	2.0
	3	Ø5	16	72	72	1152	1.8
						Total	5.0
VC20	1	Ø8	2	174	195	390	1.5
	2	Ø8	2	174	197	394	1.6
	3	Ø5	12	72	72	864	1.4
						Total	4.5
						Ø5:	76,4
						Ø6,3:	11,2
						Ø8:	41,2
						Ø10:	37,8
						Ø12,5:	87,1
						Ø16:	93,4
						Ø20:	52,1
						Total:	399,2

VC100
Escala vigas 1:50
Escala seções 1:25

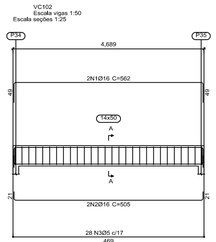


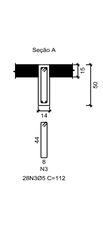


VC101
Escala vigas 1:50
Escala seções 1:25

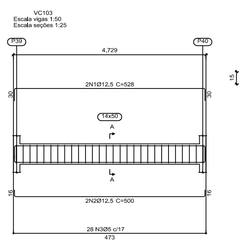


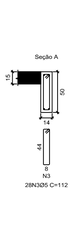
VC102
Escala vigas 1:50
Escala seções 1:25



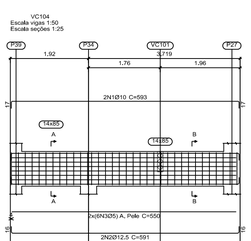


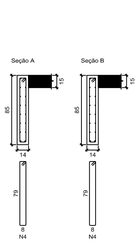
VC103
Escala vigas 1:50
Escala seções 1:25





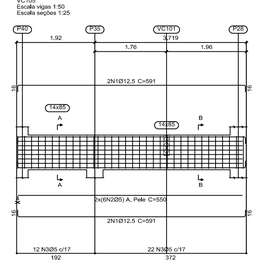
VC104
Escala vigas 1:50
Escala seções 1:25

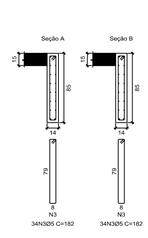




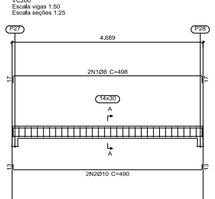
Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)
VC100	1	Ø12,5	2	555	545	1090	10,5
	2	Ø12,5	2	494	496	992	9,6
	3	Ø5	28	72	112	3136	4,9
						Total	25,0
VC101	1	Ø8	2	484	485	970	3,8
	2	Ø20	2	555	516	1032	25,5
	3	Ø5	28	72	112	3136	4,9
						Total	34,2
VC102	1	Ø16	2	564	562	1124	17,7
	2	Ø16	2	504	505	1010	15,9
	3	Ø5	28	72	112	3136	4,9
						Total	38,5
VC103	1	Ø12,5	2	528	528	1056	10,2
	2	Ø12,5	2	498	500	1000	9,6
	3	Ø5	28	72	112	3136	4,9
						Total	24,7
VC104	1	Ø10	2	593	593	1186	7,3
	2	Ø12,5	2	593	591	1182	11,4
	3	Ø5	12	555	550	6600	10,4
	4	Ø5	34	182	182	6188	9,7
						Total	38,8
VC105	1	Ø12,5	4	555	591	2364	22,8
	2	Ø5	12	555	550	6600	10,4
	3	Ø5	34	182	182	6188	9,7
						Total	42,9
						Ø5:	59,8
						Ø8:	3,8
						Ø10:	7,3
						Ø12,5:	74,1
						Ø16:	33,6
						Ø20:	25,5
						Total:	204,1

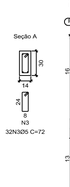
VC105
Escala vigas 1:50
Escala seções 1:25



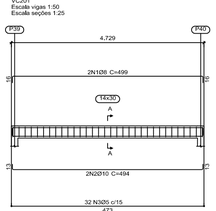


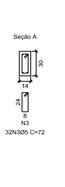
VC200
Escala vigas 1:50
Escala seções 1:25



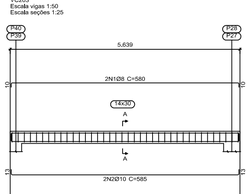


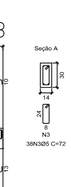
VC201
Escala vigas 1:50
Escala seções 1:25





VC202
VC203
Escala vigas 1:50
Escala seções 1:25





Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)
VC200	1	Ø8	2	497	498	996	3,9
	2	Ø10	2	494	490	980	6,0
	3	Ø5	32	72	72	2304	3,6
						Total	13,5
VC201	1	Ø8	2	498	499	998	3,9
	2	Ø10	2	498	494	988	6,1
	3	Ø5	32	72	72	2304	3,6
						Total	13,6
VC202+VC203	1	Ø8	2	580	580	1160	4,6
	2	Ø10	2	585	585	1170	7,2
	3	Ø5	38	72	72	2736	4,3
						Total:	16,1
						(x2):	32,2
						Ø5:	15,8
						Ø8:	17,0
						Ø10:	26,5
						Total:	59,3

FFF ENGENHARIA
PROJETOS E ASSESSORIA EM CONSTRUÇÕES

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TIPOS DE EMISSÃO
(A) PRELIMINAR
(B) P/ APROVAÇÃO
(C) P/ CONHECIMENTO
(D) P/ COTAÇÃO
(E) P/ CONSTRUÇÃO
(F) CANCELADO
(G) P/ FABRICAÇÃO

ART: 28027230180951040

PROJETADO:	FELLIPE	RESP. TÉCNICO FELLIPE FERRARI CREA–SP 506.970.406–3
DESENHADO:	FELLIPE	
VERIFICADO:	FELLIPE	DATA: 08/11/2018

CLIENTE: PREFEITURA MUNICIPAL DE BIRIGUI

OBRA: R. ERNESTINO BISPO DA SILVA, ESQ. R. ANTÔNIO JOSÉ DOS SANTOS QUADRA C-10 - RES. PORTAL DA PÉROLA II - BIRIGUI/SP

FASE: PROJETO ESTRUTURAL

DATA: NOVEMBRO/18

TÍTULO / DESCRIÇÃO: ARMAÇÕES DO PILARES E VIGAS DA SUPERESTRUTURA - PARTE 2

ESCALA: 1:50

ARQUIVO: -

FOLHA: 08/09