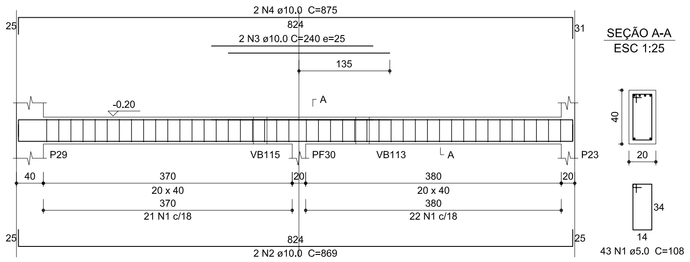
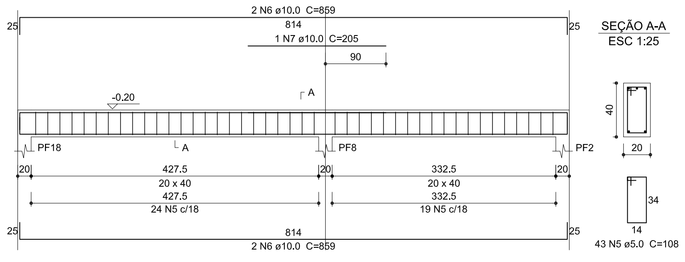
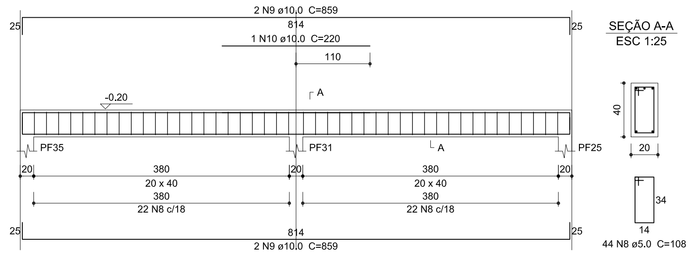
VB121 (20 x 40)
1:50



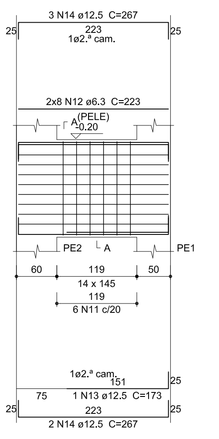
VB122 (20 x 40)
1:50



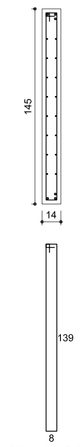
VB123 (20 x 40)
1:50



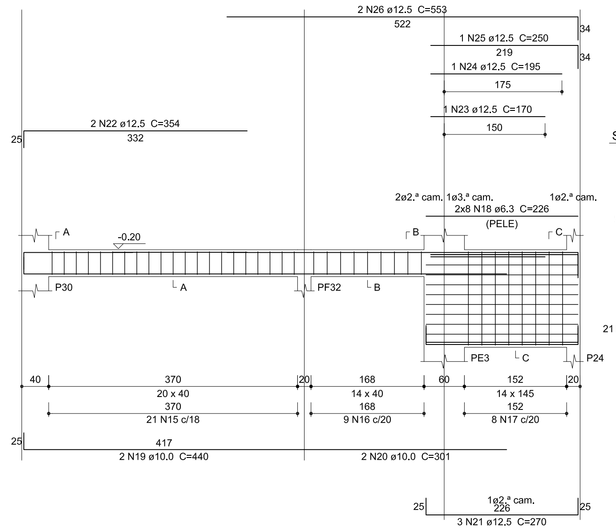
VB125 (14 x 145)
1:50



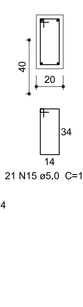
SEÇÃO A-A
ESC 1:25



VB126 (var)
1:50

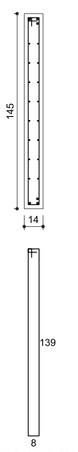


ESC 1:25
SEÇÃO A-A

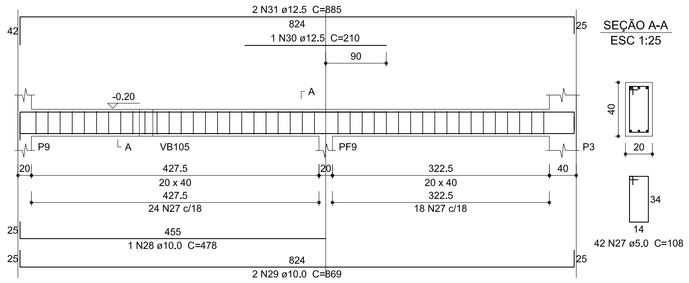


SEÇÃO B-B
ESC 1:25

SEÇÃO C-C
ESC 1:25

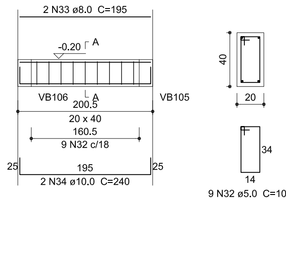


VB127 (20 x 40)
1:50



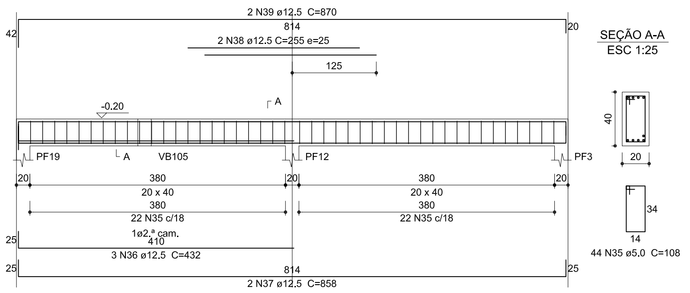
SEÇÃO A-A
ESC 1:25

VB128 (20 x 40)
1:50



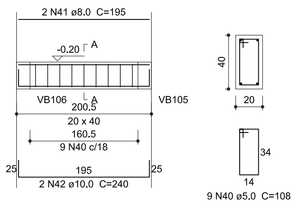
SEÇÃO A-A
ESC 1:25

VB129 (20 x 40)
1:50



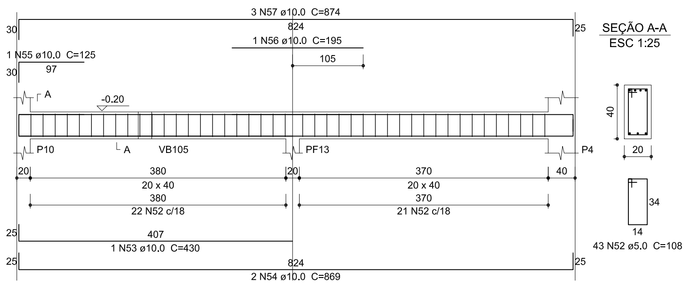
SEÇÃO A-A
ESC 1:25

VB130 (20 x 40)
1:50



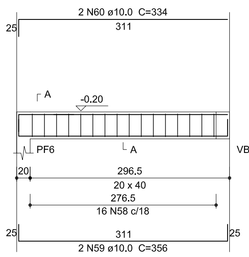
SEÇÃO A-A
ESC 1:25

VB132 (20 x 40)
1:50

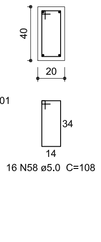


SEÇÃO A-A
ESC 1:25

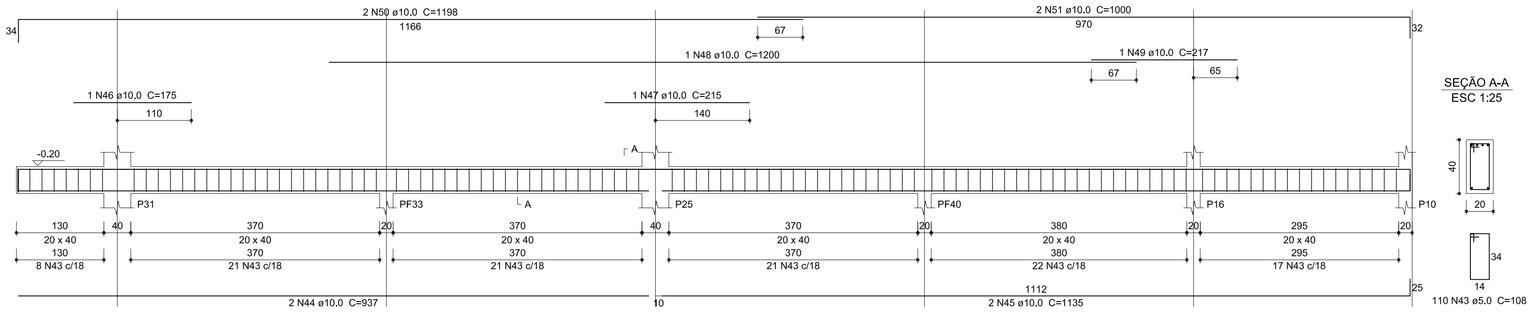
VB133 (20 x 40)
1:50



SEÇÃO A-A
ESC 1:25

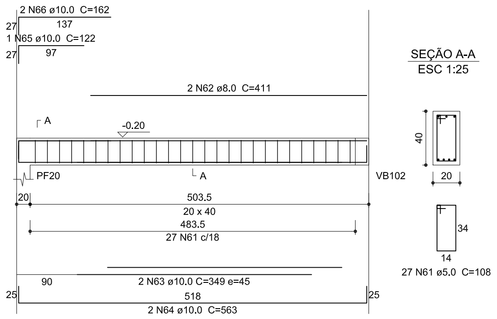


VB131 (20 x 40)
1:50



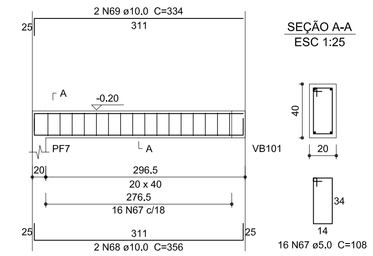
SEÇÃO A-A
ESC 1:25

VB134 (20 x 40)
1:50



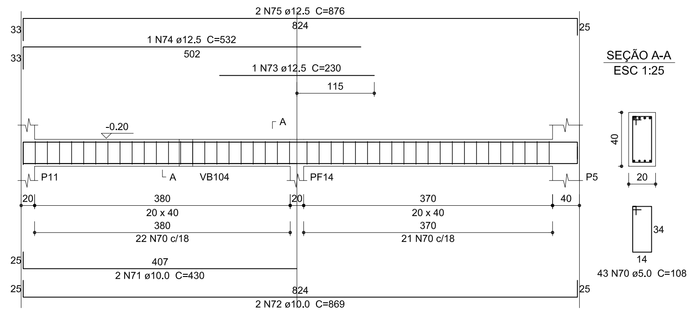
SEÇÃO A-A
ESC 1:25

VB135 (20 x 40)
1:50



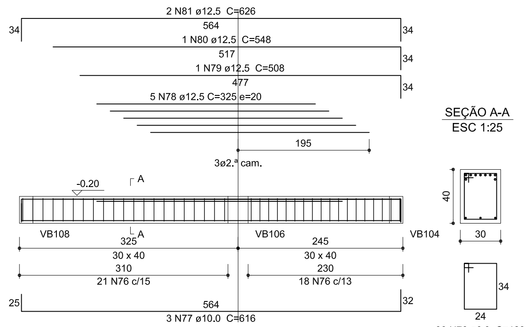
SEÇÃO A-A
ESC 1:25

VB136 (20 x 40)
1:50



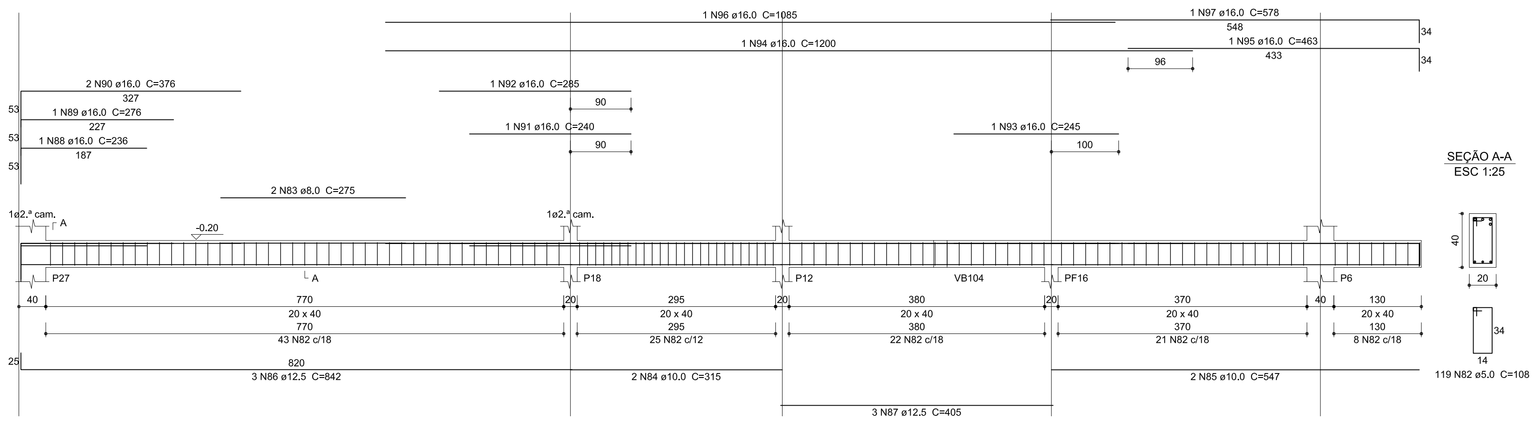
SEÇÃO A-A
ESC 1:25

VB137 (30 x 40)
1:50



SEÇÃO A-A
ESC 1:25

VB138 (20 x 40)
1:50



SEÇÃO A-A
ESC 1:25

Relação do aço

ELEMENTO	AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
VB121	CA60	1	5.0	43	108	4644
	CA50	2	10.0	2	869	1738
	CA50	3	10.0	2	240	480
	CA50	4	10.0	2	875	1750
VB122	CA60	5	5.0	43	108	4644
	CA50	6	10.0	4	859	3436
	CA50	7	10.0	1	205	205
VB123	CA60	8	5.0	44	108	4752
	CA50	9	10.0	4	859	3436
	CA50	10	10.0	1	220	220
VB125	CA60	11	5.0	6	306	1836
	CA50	12	6.3	16	223	3568
	CA50	13	12.5	1	173	173
	CA50	14	12.5	5	267	1335
VB126	CA60	15	5.0	21	108	2268
	CA60	16	5.0	9	96	864
	CA60	17	5.0	8	306	2448
	CA50	18	6.3	16	226	3616
	CA50	19	10.0	2	440	880
	CA50	20	10.0	2	301	602
	CA50	21	12.5	3	270	810
	CA50	22	12.5	2	354	708
	CA50	23	12.5	1	170	170
	CA50	24	12.5	1	195	195
	CA50	25	12.5	1	250	250
	CA50	26	12.5	2	553	1106
VB127	CA60	27	5.0	42	108	4536
	CA50	28	10.0	1	478	478
	CA50	29	10.0	2	869	1738
	CA50	30	12.5	1	210	210
	CA50	31	12.5	2	885	1770
VB128	CA60	32	5.0	9	108	972
	CA50	33	8.0	2	195	390
	CA50	34	10.0	2	240	480
VB129	CA60	35	5.0	44	108	4752
	CA50	36	12.5	3	432	1296
	CA50	37	12.5	2	858	1716
	CA50	38	12.5	2	255	510
	CA50	39	12.5	2	870	1740
VB130	CA60	40	5.0	9	108	972
	CA50	41	8.0	2	195	390
	CA50	42	10.0	2	240	480
VB131	CA60	43	5.0	110	108	11880
	CA50	44	10.0	2	937	1874
	CA50	45	10.0	2	1135	2270
	CA50	46	10.0	1	175	175
	CA50	47	10.0	1	215	215
	CA50	48	10.0	1	1200	1200
	CA50	49	10.0	1	217	217
	CA50	50	10.0	2	1198	2396
	CA50	51	10.0	2	1000	2000
VB132	CA60	52	5.0	43	108	4644
	CA50	53	10.0	1	430	430
	CA50	54	10.0	2	869	1738
	CA50	55	10.0	1	125	125
	CA50	56	10.0	1	195	195
	CA50	57	10.0	3	874	2622
VB133	CA60	58	5.0	16	108	1728
	CA50	59	10.0	2	356	712
	CA50	60	10.0	2	334	668
VB134	CA60	61	5.0	27	108	2916
	CA50	62	8.0	2	411	822
	CA50	63	10.0	2	349	698
	CA50	64	10.0	2	563	1126
	CA50	65	10.0	1	122	122
	CA50	66	10.0	2	162	324
VB135	CA60	67	5.0	16	108	1728
	CA50	68	10.0	2	356	712
	CA50	69	10.0	2	334	668
VB136	CA60	70	5.0	43	108	4644
	CA50	71	10.0	2	430	860
	CA50	72	10.0	2	869	1738
	CA50	73	12.5	1	230	230
	CA50	74	12.5	1	532	532
	CA50	75	12.5	2	876	1752
VB137	CA50	76	6.3	39	128	4992
	CA50	77	10.0	3	616	1848
	CA50	78	12.5	5	325	1625
	CA50	79	12.5	1	508	508
	CA50	80	12.5	1	548	548
	CA50	81	12.5	2	626	1252
VB138	CA60	82	5.0	119	108	12852
	CA50	83	8.0	2	275	550
	CA50	84	10.0	2	315	630
	CA50	85	10.0	2	547	1094
	CA50	86	12.5	3	842	2526
	CA50	87	12.5	3	405	1215
	CA50	88	16.0	1	236	236
	CA50	89	16.0	1	276	276
	CA50	90	16.0	2	376	752
	CA50	91	16.0	1	240	240
	CA50	92	16.0	1	285	285
	CA50	93	16.0	1	245	245
	CA50	94	16.0	1	1200	1200
	CA50	95	16.0	1	463	463
	CA50	96	16.0	1	1085	1085
	CA50	97	16.0	1	578	578

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO (kg)
CA50	6.3	158	40
	8.0	28	11
	10.0	554	349
	12,5	288	288
	16.0	70	112
CA60	5,0	950	152
PESO TOTAL			
CA50	800		
CA60	152		

REVISÕES	DESCRIÇÃO	DATA	RUBRICA
0	EMISSÃO INICIAL	00/00/2009	NOME

UIE UNIDADE DE EXECUTORIA DEPARTAMENTO DE OBRAS
CENTRO PAULA SOUZA COMPETÊNCIA EM EDUCAÇÃO PÚBLICA PROFISSIONAL
GOVERNO DE SÃO PAULO

OBRA: CAMPUS CEETEPS EM CRAVINHOS
UNIDADE: ETEC CRAVINHOS
LOCAL / MUNICÍPIO: RUA MARIA CONCEIÇÃO GOUVÊA SIMÕES, S/Nº - CRAVINHOS/SP
ÁREA TÉCNICA: ESTRUTURAL
ESCALA: INDICADAS
FOLHA Nº: EST-007/024
TÍTULO:
PROJETO BÁSICO
BLOCO ADMINISTRATIVO E PEDAGÓGICO
ARMAÇÃO DAS VIGAS BALDRAMES - 2 / 3
CONSTRUÇÃO

DESENHO	PROJETO	COORDENAÇÃO
UIE	UIE	UIE
OBSERVAÇÃO	DATA	REVISÃO
CONFERIR MEDIDAS NO LOCAL	OUT/2017	R0