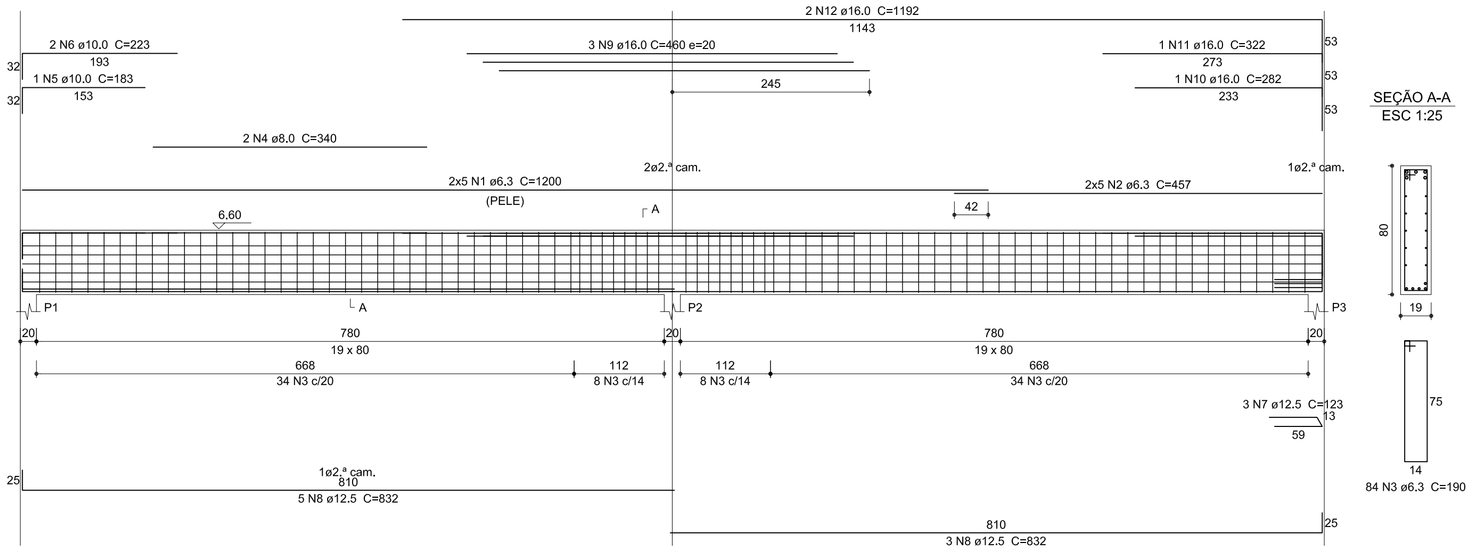
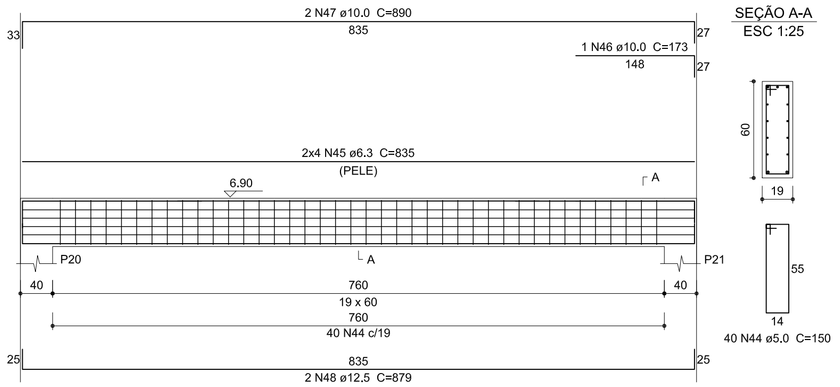
V301 (19 x 80)

1:50



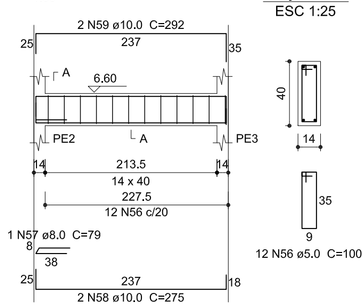
V307 (19 x 60)

1:50



V311 (14 x 40)

1:50



Relação do aço

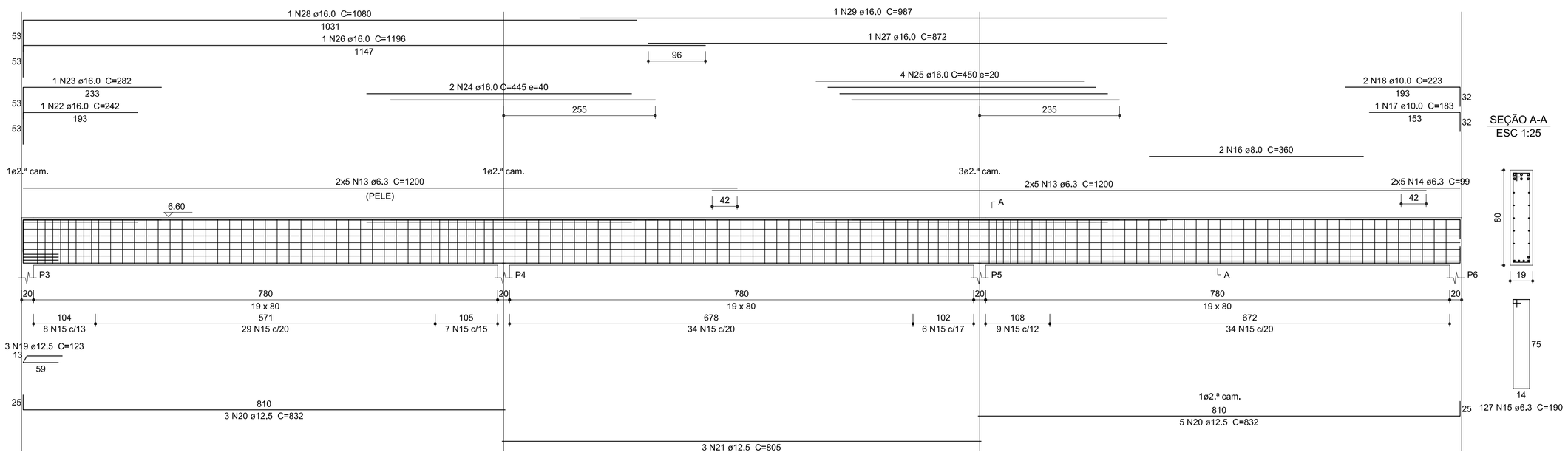
ELEMENTO	AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
V301	CA50	1	6.3	10	1200	12000
	CA50	2	6.3	10	457	4570
	CA50	3	6.3	84	190	15960
	CA50	4	8.0	2	340	680
	CA50	5	10.0	1	183	183
	CA50	6	10.0	2	223	446
	CA50	7	12.5	3	123	369
	CA50	8	12.5	8	832	6656
	CA50	9	16.0	3	460	1380
	CA50	10	16.0	1	282	282
	CA50	11	16.0	1	322	322
	CA50	12	16.0	2	1192	2384
V302	CA50	13	6.3	20	1200	24000
	CA50	14	6.3	10	99	990
	CA50	15	6.3	127	190	24130
	CA50	16	8.0	2	360	720
	CA50	17	10.0	1	183	183
	CA50	18	10.0	2	223	446
	CA50	19	12.5	3	123	369
	CA50	20	12.5	8	832	6656
	CA50	21	12.5	3	805	2415
	CA50	22	16.0	1	242	242
	CA50	23	16.0	1	282	282
	CA50	24	16.0	2	445	890
	CA50	25	16.0	4	450	1800
	CA50	26	16.0	1	1196	1196
	CA50	27	16.0	1	872	872
	CA50	28	16.0	1	1080	1080
	CA50	29	16.0	1	987	987
V303	CA50	30	6.3	8	1200	9600
	CA50	31	6.3	8	467	3736
	CA50	32	6.3	93	150	13950
	CA50	33	8.0	2	280	560
	CA50	34	8.0	2	260	520
	CA50	35	12.5	4	822	3288
	CA50	36	12.5	4	832	3328
	CA50	37	16.0	1	247	247
	CA50	38	16.0	2	327	654
	CA50	39	16.0	4	390	1560
	CA50	40	16.0	2	595	1190
	CA50	41	16.0	2	261	522
	CA50	42	16.0	2	301	602
	CA50	43	16.0	2	381	762
V307	CA60	44	5.0	40	150	6000
	CA50	45	6.3	8	835	6680
	CA50	46	10.0	1	173	173
	CA50	47	10.0	2	890	1780
	CA50	48	12.5	2	879	1758
V309	CA50	49	6.3	10	825	8250
	CA50	50	6.3	49	190	9310
	CA50	51	16.0	2	144	288
	CA50	52	16.0	3	868	2604
	CA50	53	16.0	1	259	259
	CA50	54	16.0	2	896	1792
	CA50	55	16.0	2	227	454
V311	CA60	56	5.0	12	100	1200
	CA50	57	8.0	1	79	79
	CA50	58	10.0	2	275	550
	CA50	59	10.0	2	292	584
V314	CA60	60	5.0	7	150	1050
	CA50	61	6.3	8	155	1240
	CA50	62	10.0	2	178	356
V316	CA50	63	12.5	2	233	466
	CA50	64	5.0	7	150	1050
	CA50	65	6.3	8	155	1240
	CA50	66	10.0	2	178	356
	CA50	67	12.5	2	233	466
V317	CA60	68	5.0	56	140	7840
	CA50	69	6.3	6	1129	6774
	CA50	70	8.0	2	480	960
	CA50	71	10.0	2	1184	2368
	CA50	72	10.0	2	280	560
	CA50	73	10.0	2	535	1070
V318	CA60	74	5.0	16	150	2400
	CA50	75	6.3	8	331	2648
	CA50	76	10.0	2	376	752
	CA50	77	10.0	1	189	189
	CA50	78	10.0	2	392	784
	CA50	79	12.5	2	123	246
V319	CA60	80	5.0	25	150	3750
	CA50	81	6.3	8	500	4000
	CA50	82	10.0	1	139	139
	CA50	83	10.0	2	561	1122
	CA50	84	12.5	2	544	1088

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO (kg)
CA50	6.3	1938	485
	8.0	46	18
	10.0	157	99
	12.5	352	352
	16,0	295	472
CA60	5,0	303	49
PESO TOTAL			
CA50	1426		
CA60	49		

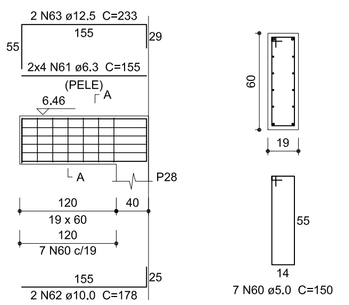
V302 (19 x 80)

1:50



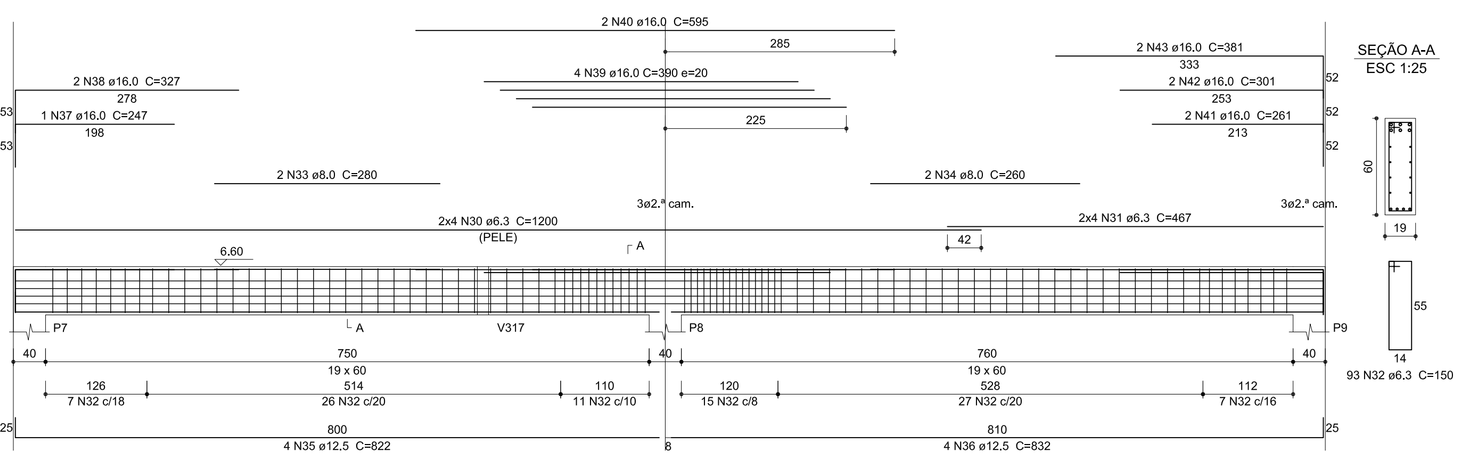
V314 (19 x 60)

1:50



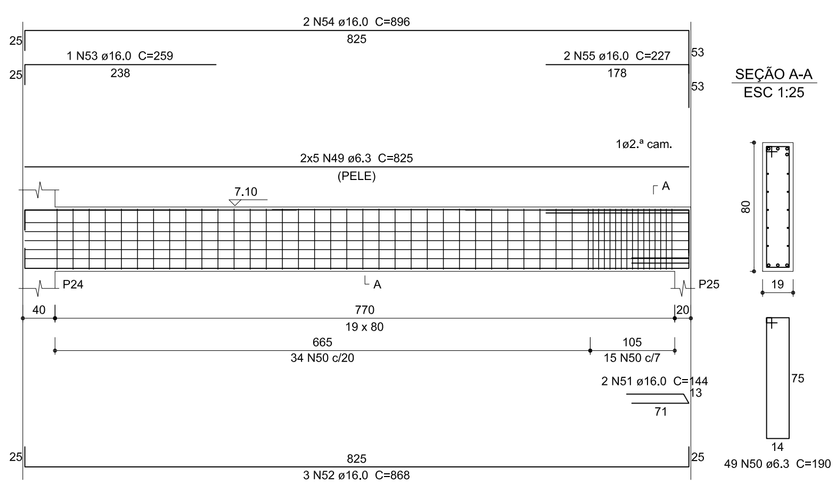
V303 (19 x 60)

1:50



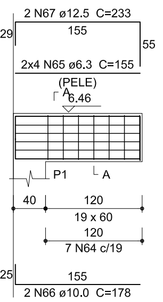
V309 (19 x 80)

1:50

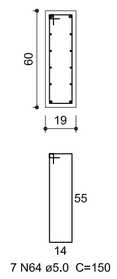


V316 (19 x 60)

1:50

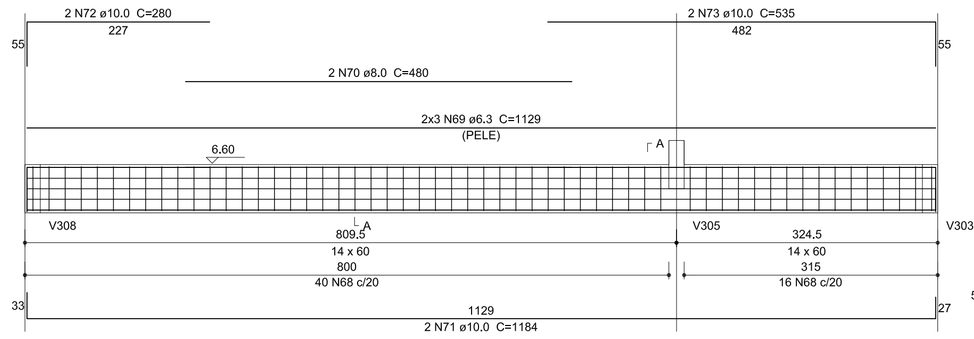


SEÇÃO A-A
ESC 1:25

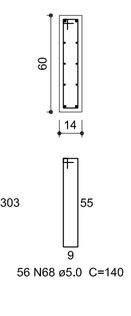


V317 (14 x 60)

1:50

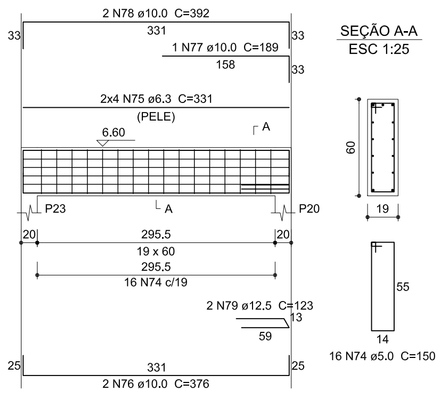


SEÇÃO A-A
ESC 1:25



V318 (19 x 60)

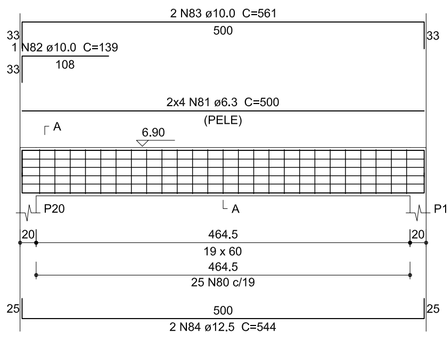
1:50



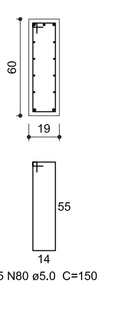
SEÇÃO A-A
ESC 1:25

V319 (19 x 60)

1:50



SEÇÃO A-A
ESC 1:25



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

UIE — UNIDADE DE INFRAESTRUTURA — DEPARTAMENTO DE OBRAS

CENTRO PAULA SOUZA — 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-020/024

TÍTULO:

PROJETO BÁSICO

BLOCO ADMINISTRATIVO E PEDAGÓGICO

ARMAÇÃO DAS VIGAS DA COBERTURA - 1 / 3

CONSTRUÇÃO

DESENHO	PROJETO	COORDENAÇÃO
UIE	UIE	UIE

OBSERVAÇÃO: CONFERIR MEDIDAS NO LOCAL

DATA: OUT/2017

REVISÃO: R0

FL. 90 x 64