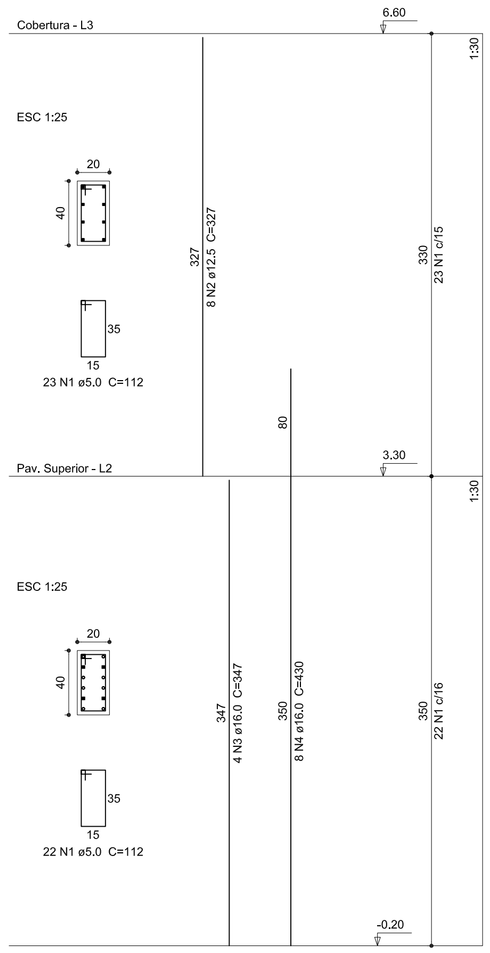
P9



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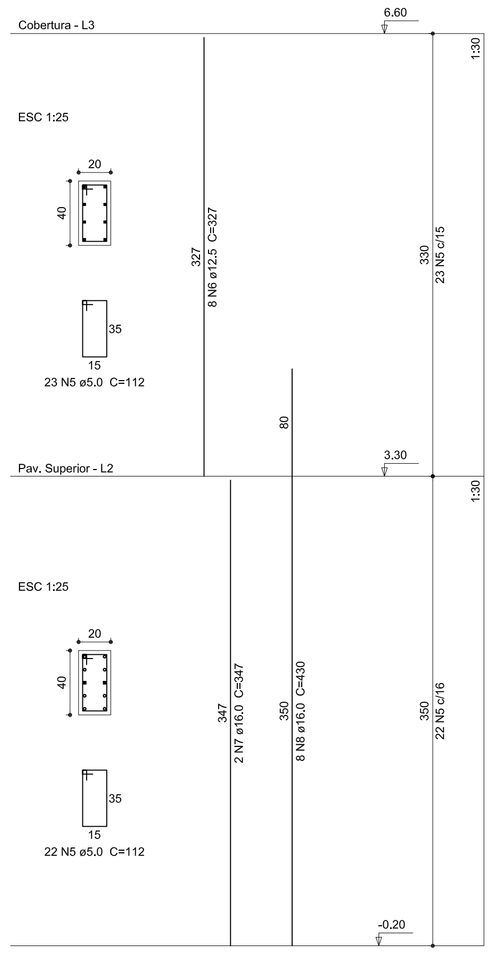

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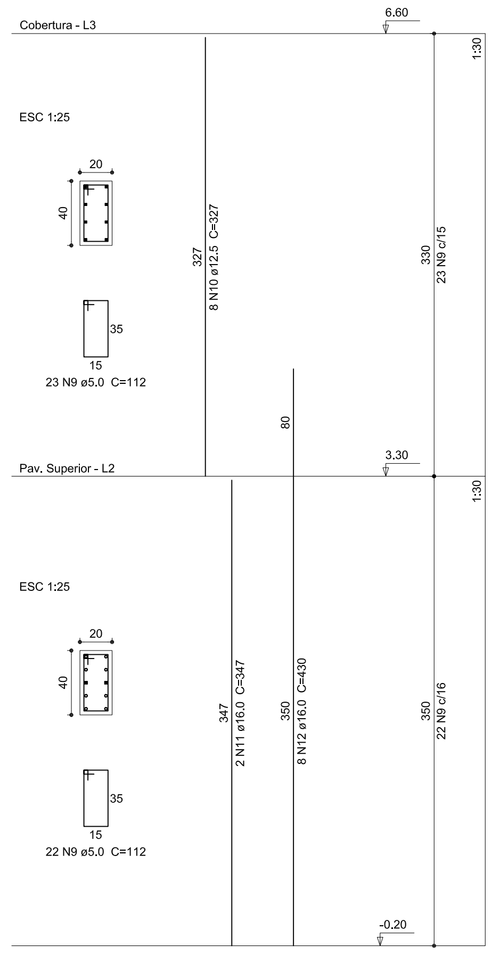

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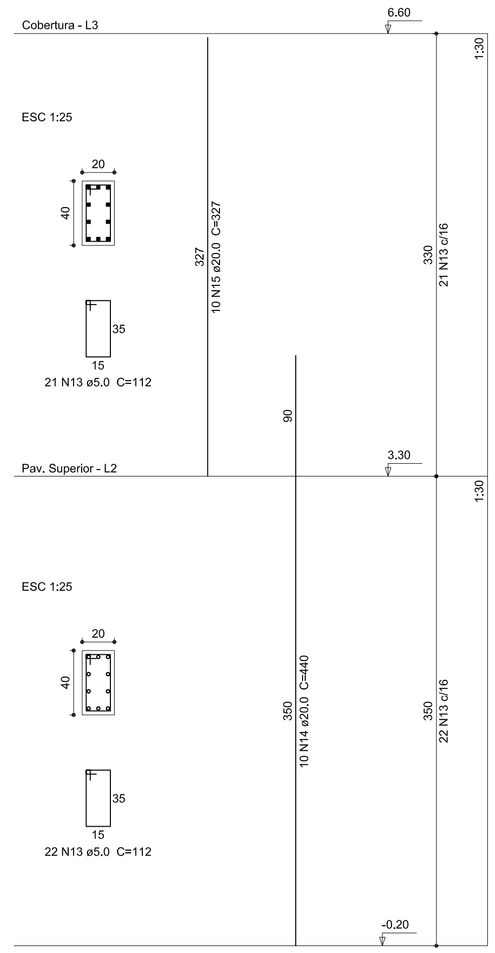

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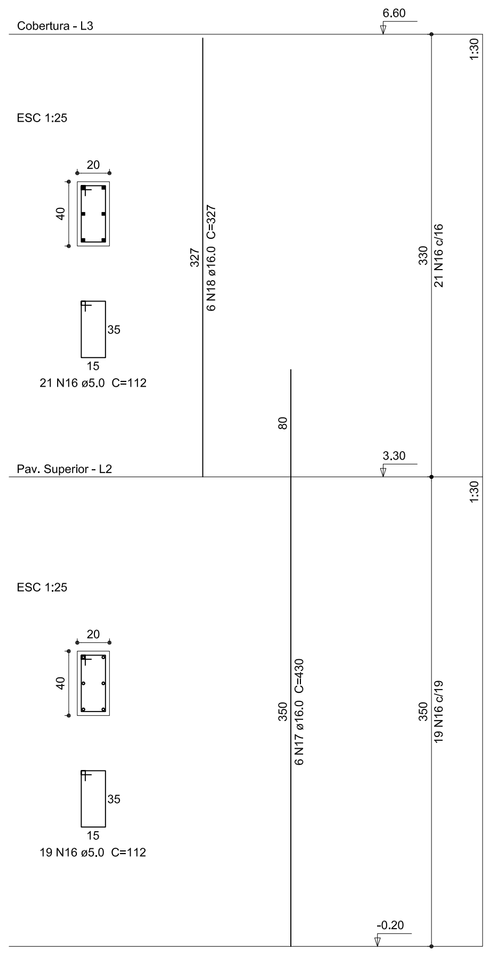
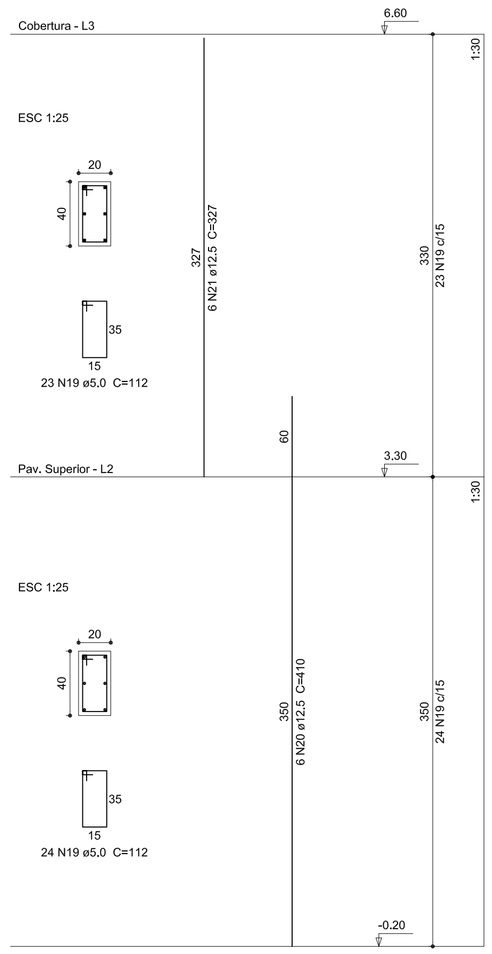


P14



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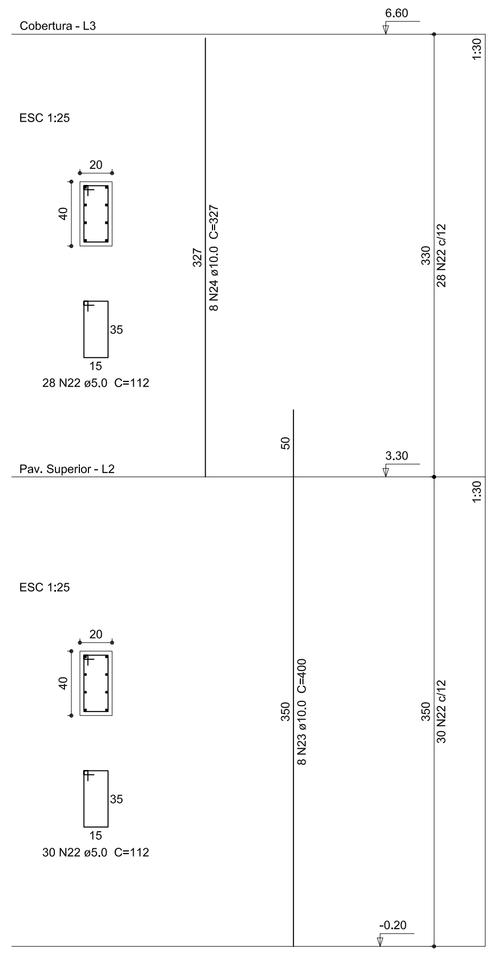
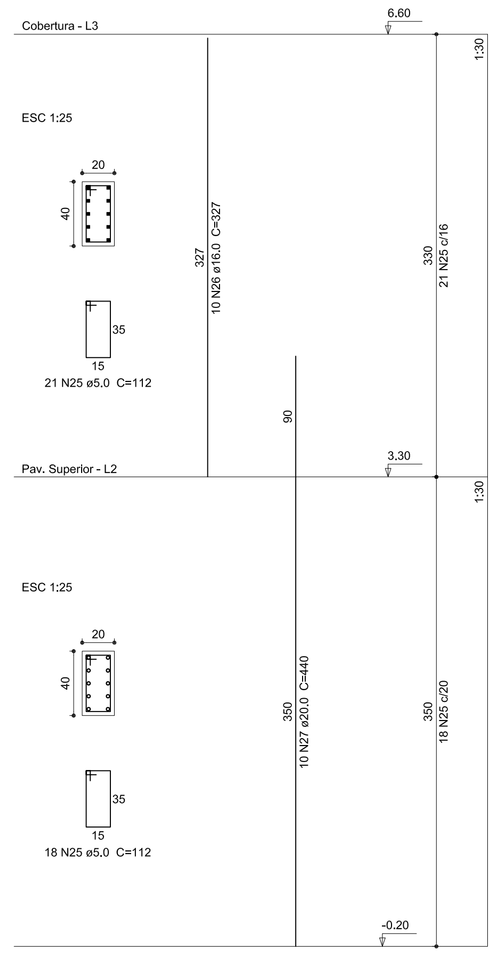


P16



Relação do aço

ELEMENTO	AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
P9	CA60	1	5.0	45	112	5040
	CA50	2	12.5	8	327	2616
	CA50	3	16.0	4	347	1388
	CA50	4	16.0	8	430	3440
P10	CA60	5	5.0	45	112	5040
	CA50	6	12.5	8	327	2616
	CA50	7	16.0	2	347	694
	CA50	8	16.0	8	430	3440
P11	CA60	9	5.0	45	112	5040
	CA50	10	12.5	8	327	2616
	CA50	11	16.0	2	347	694
	CA50	12	16.0	8	430	3440
P12	CA60	13	5.0	43	112	4816
	CA50	14	20.0	10	440	4400
	CA50	15	20.0	10	327	3270
P13	CA60	16	5.0	40	112	4480
	CA50	17	16.0	6	430	2580
	CA50	18	16.0	6	327	1962
P14	CA60	19	5.0	47	112	5264
	CA50	20	12.5	6	410	2460
	CA50	21	12.5	6	327	1962
P15	CA60	22	5.0	58	112	6496
	CA50	23	10.0	8	400	3200
	CA50	24	10.0	8	327	2616
P16	CA60	25	5.0	39	112	4368
	CA50	26	16.0	10	327	3270
	CA50	27	20.0	10	440	4400

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO (kg)
CA50	10.0	76	48
	12.5	160	160
	16.0	272	435
	20.0	157	393
CA60	5.0	527	84

PESO TOTAL	
CA50	1036
CA60	84

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

UIE — UNIDADE DE IMPLEMENTAÇÃO — 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-010/024
TÍTULO:
PROJETO BÁSICO
BLOCO ADMINISTRATIVO E PEDAGÓGICO
ARMAÇÃO DOS PILARES - 2 / 5
CONSTRUÇÃO

DESENHO	PROJETO	COORDENAÇÃO
UIE	UIE	UIE

OBSERVAÇÃO	DATA	REVISÃO
CONFERIR MEDIDAS NO LOCAL	OUT/2017	R0