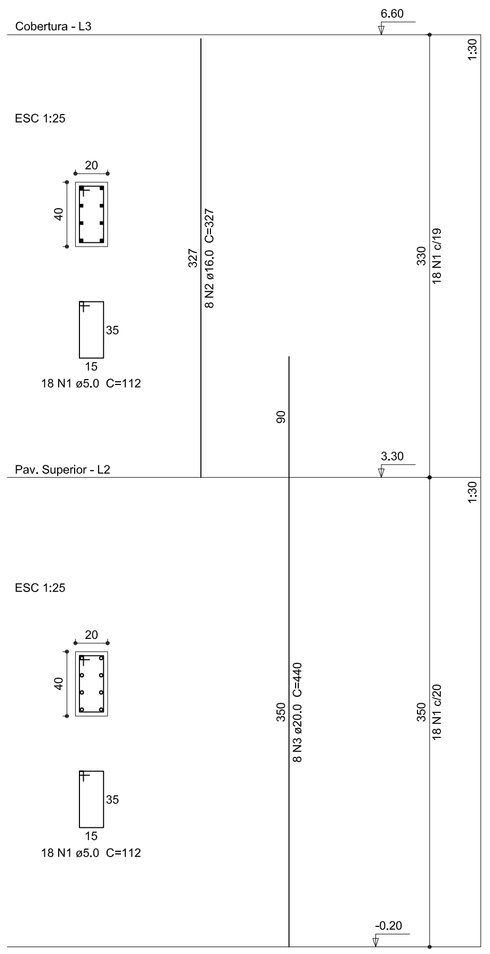
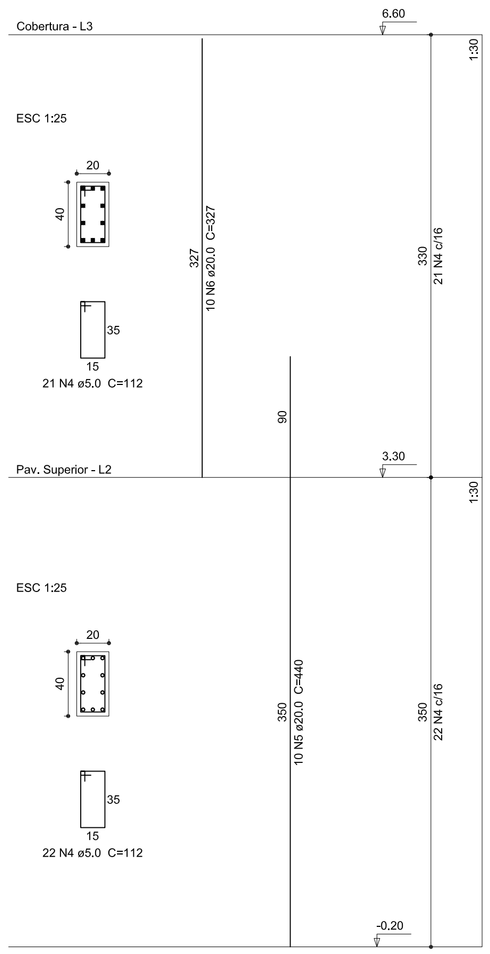
P17



P18



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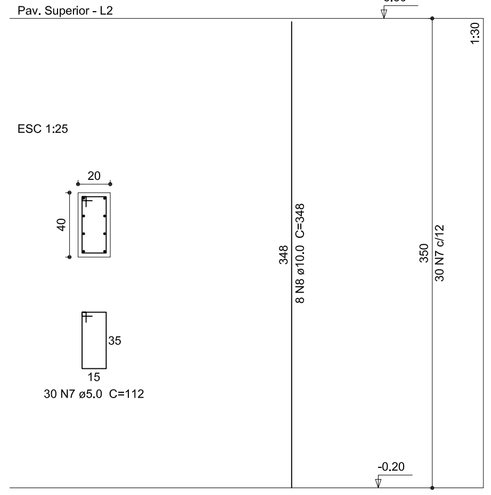

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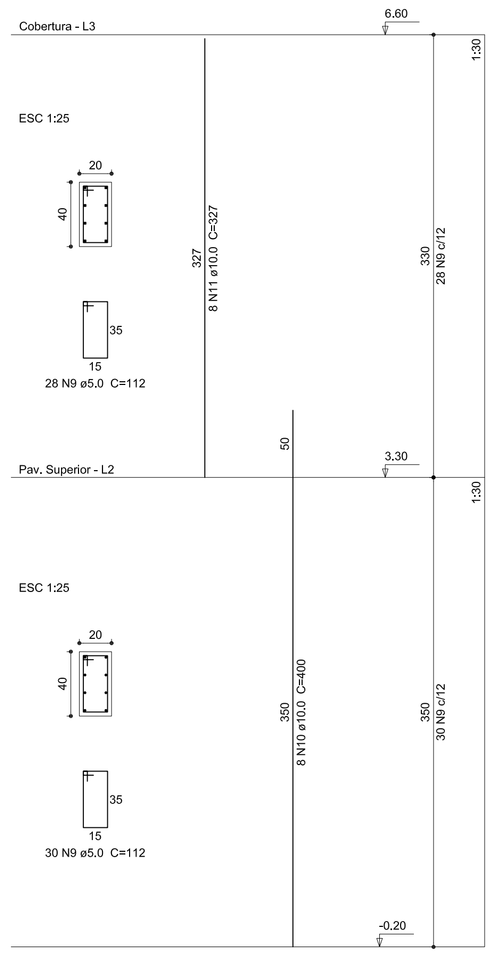

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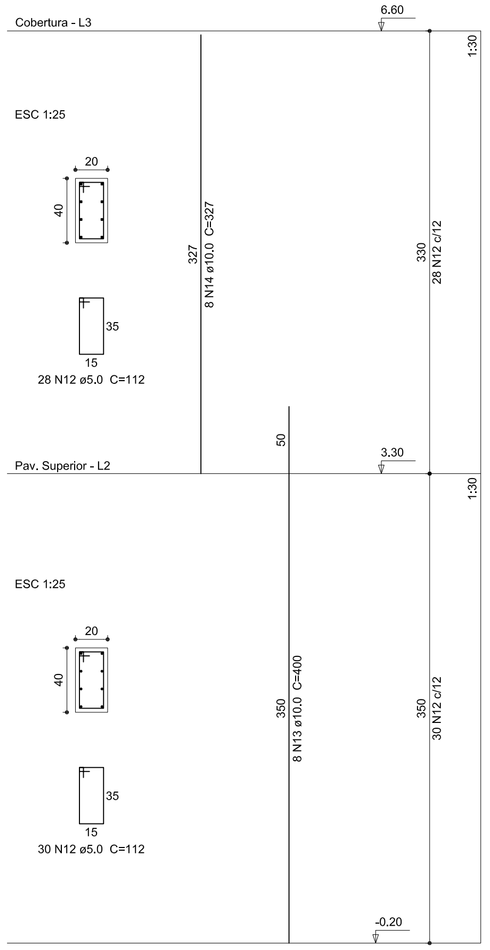
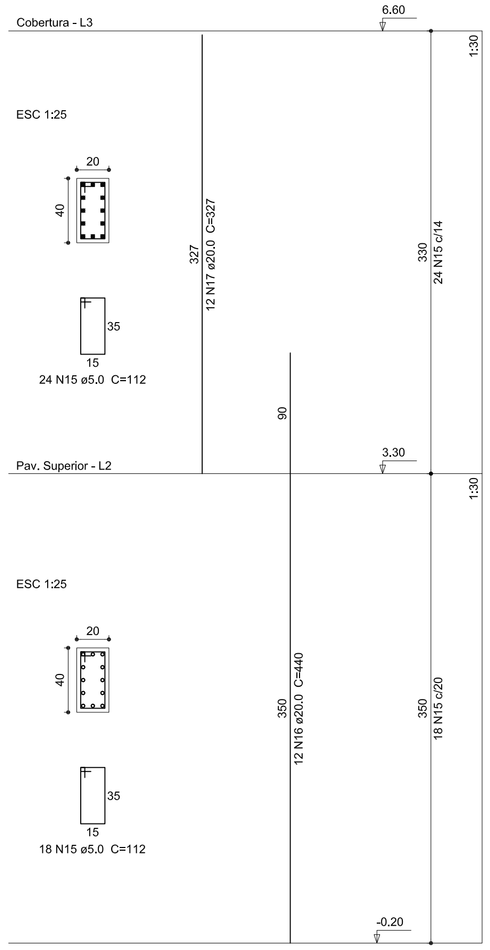
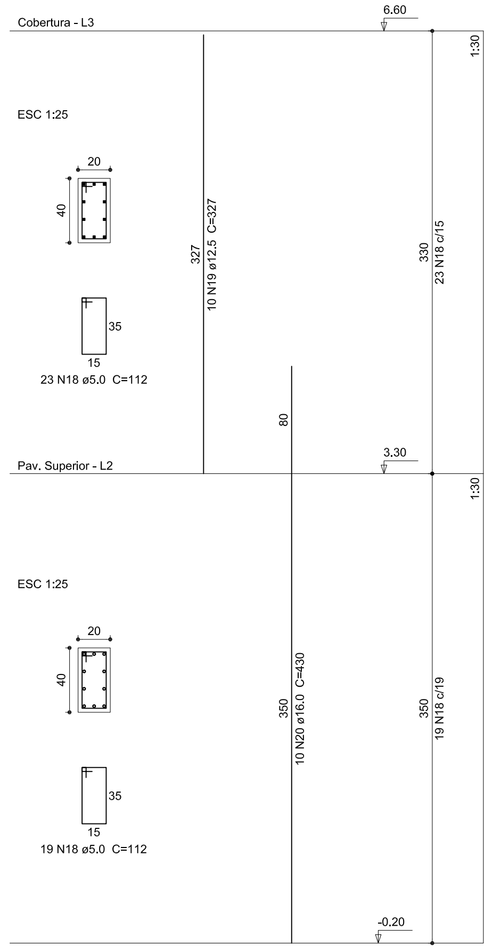


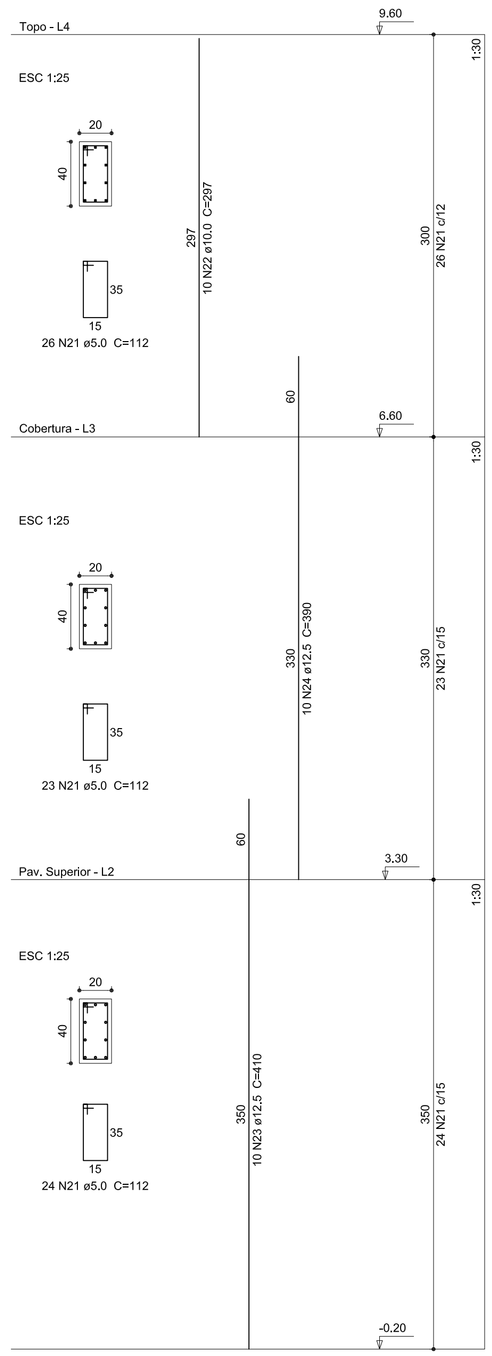
P22



P23



P24



Relação do aço

ELEMENTO	AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
P17	CA60	1	5,0	36	112	4032
	CA50	2	16,0	8	327	2616
	CA50	3	20,0	8	440	3520
P18	CA60	4	5,0	43	112	4816
	CA50	5	20,0	10	440	4400
	CA50	6	20,0	10	327	3270
P19	CA60	7	5,0	30	112	3360
	CA50	8	10,0	8	348	2784
P20	CA60	9	5,0	58	112	6496
	CA50	10	10,0	8	400	3200
	CA50	11	10,0	8	327	2616
P21	CA60	12	5,0	58	112	6496
	CA50	13	10,0	8	400	3200
	CA50	14	10,0	8	327	2616
P22	CA60	15	5,0	42	112	4704
	CA50	16	20,0	12	440	5280
	CA50	17	20,0	12	327	3924
P23	CA60	18	5,0	42	112	4704
	CA50	19	12,5	10	327	3270
	CA50	20	16,0	10	430	4300
P24	CA60	21	5,0	73	112	8176
	CA50	22	10,0	10	297	2970
	CA50	23	12,5	10	410	4100
	CA50	24	12,5	10	390	3900

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO (kg)
CA50	10,0	226	142
	12,5	147	147
	16,0	90	144
	20,0	265	663
CA60	5,0	556	89
PESO TOTAL			
CA50	1096		
CA60	89		

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

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-011/024
TÍTULO:
PROJETO BÁSICO
BLOCO ADMINISTRATIVO E PEDAGÓGICO
ARMAÇÃO DOS PILARES - 3 / 5
CONSTRUÇÃO

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

FL. 90 x 64