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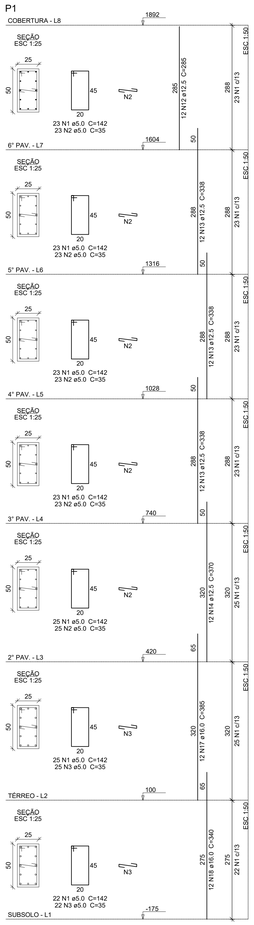

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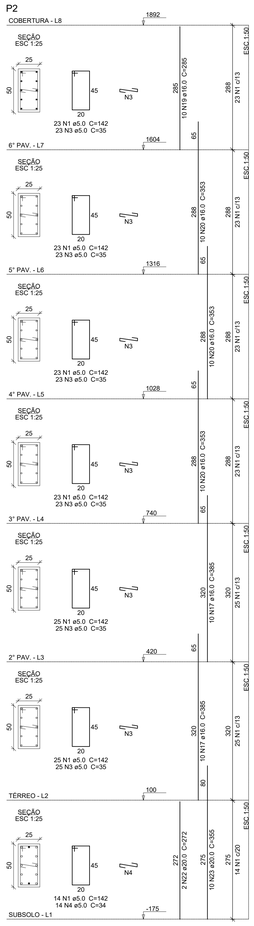

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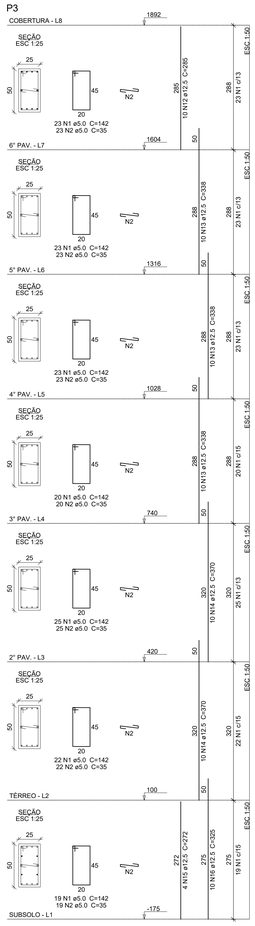

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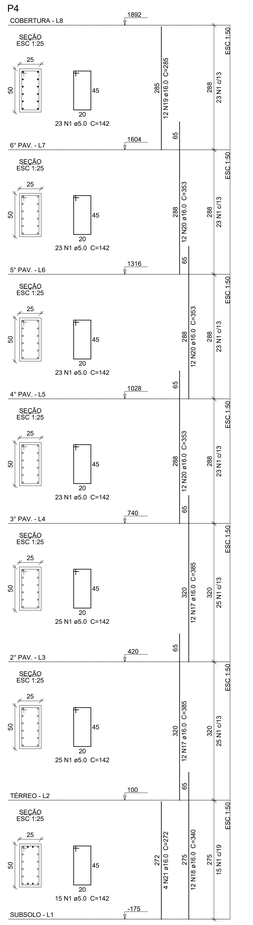

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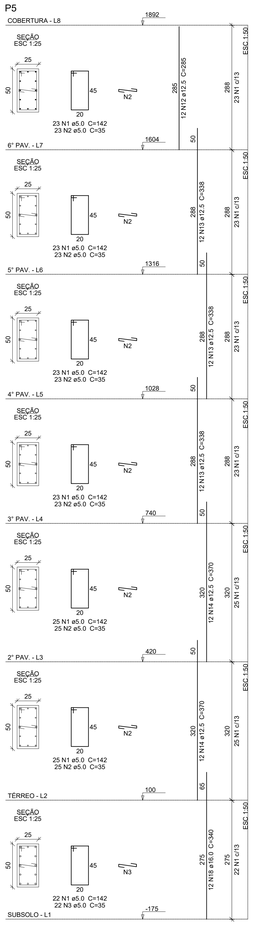
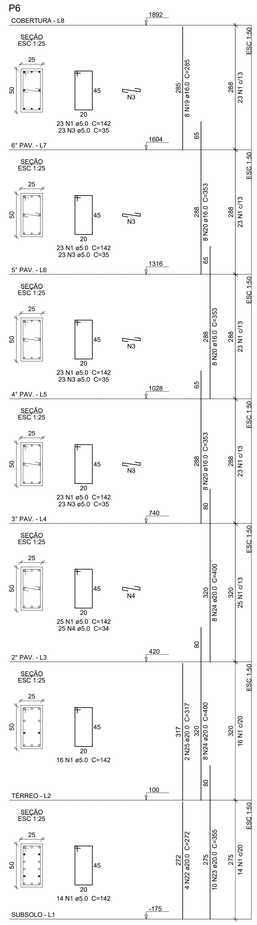
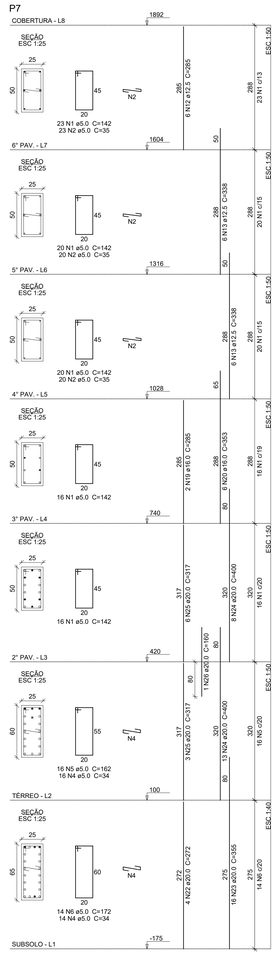


P6



P7



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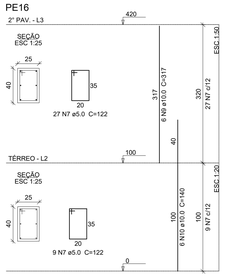

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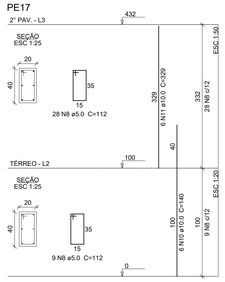

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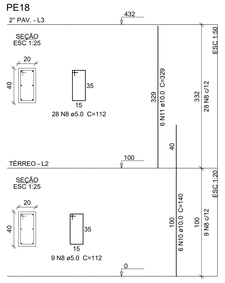
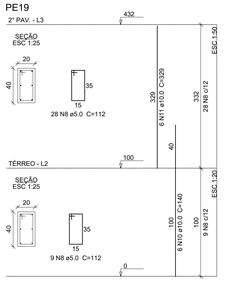


PE19



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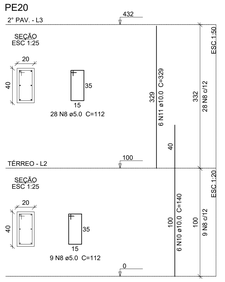

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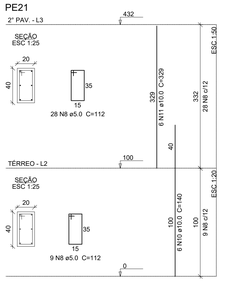
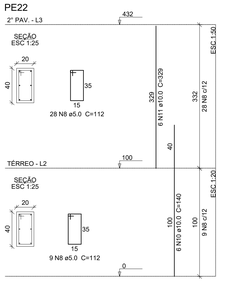
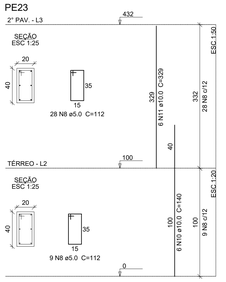


PE22



PE23



Relação do aço

2° PAV.: PE16, PE17, PE18, PE19, PE20, PE21, PE22, PE23

COBERTURA: P1, P2, P3, P4, P5, P6, P7

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	1038	142	147396
	2	5.0	477	35	16695
	3	5.0	303	35	10605
	4	5.0	69	34	2346
	5	5.0	16	162	2592
	6	5.0	14	172	2408
	7	5.0	36	122	4392
	8	5.0	259	112	29008
CA50	9	10.0	6	317	1902
	10	10.0	48	140	6720
	11	10.0	42	329	13818
	12	12.5	40	285	11400
	13	12.5	114	338	38532
	14	12.5	56	370	20720
	15	12.5	4	272	1088
	16	12.5	10	325	3250
	17	16.0	56	385	21560
	18	16.0	36	340	12240
	19	16.0	32	285	9120
	20	16.0	96	353	33888
	21	16.0	4	272	1088
	22	20.0	10	272	2720
	23	20.0	36	355	12780
	24	20.0	37	400	14800
	25	20.0	11	317	3487
	26	20.0	1	160	160

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	224.4	152.2
	12.5	749.9	794.6
	16.0	779	1352.4
	20.0	339.5	920.9
CA60	5.0	2154.5	365.3

PESO TOTAL (kg)	
CA50	3220.1
CA60	365.3

Volume de concreto (C-30) = 21.11 m³
Área de forma = 260.25 m²

ITEM	REVISÃO (CONTEÚDO)	RESPONS.	DATA

PROPRIETÁRIO: SERVIÇO SOCIAL DO COMÉRCIO - SESC

AUTOR DO PROJETO: ENGº CIVIL E ARQ ALEXANDRE DE MORAES FERREIRA - CREA/PA 4393D

DESENV. DO PROJETO: ENGº CIVIL ALMIR MAGALHÃES JR. - CREA/PA 151086898-4D

PREFEITURA

BOMBEIROS

DEMAIS ÓRGÃOS

PROPRIETÁRIO: SERVIÇO SOCIAL DO COMÉRCIO - SESC

ABL-CBK engenharia, arquitetura & paisagismo ltda.
FONE:(91) 3244-5726/e-mail: ablcbk@nautilus.com.br

PROJETO: CONSTRUÇÃO ED. 06 PAVIMENTOS DA UNIDADE DOCA
DISCIPLINA: ESTRUTURA
FASE: PROJETO EXECUTIVO

CONTEÚDO: ARMAÇÃO DOS PILARES - PARTE 1
DISCIPLINA | PRANCHA | TOTAL: EST 19/64

Sesc

ENDEREÇO: RUA SENADOR MANOEL BARATA Nº 1873 - REDUTO - BELÉM/PA
AUTORES: ENGº CIVIL E ARQ ALEXANDRE DE MORAES FERREIRA - CREA/PA 4393D; ENGº CIVIL ALMIR MAGALHÃES JR. - CREA/PA 151086898-4D
RESPONSÁVEL TÉCNICO: ENGº CIVIL E ARQ ALEXANDRE DE MORAES FERREIRA - CREA/PA 4393D
VISTO:

ESCALA:	DATA:	REVISÃO:	DESENV. GRÁFICO:
INDICADA	JUNHO-2018	000	ENGº CIVIL ALMIR MAGALHÃES JR.

FORMATO ISO A0 - 1189 x 841 mm