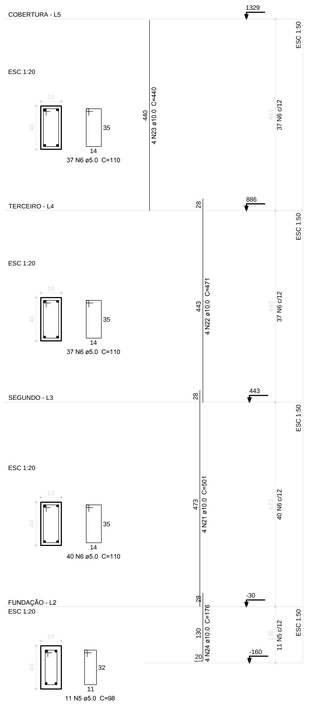
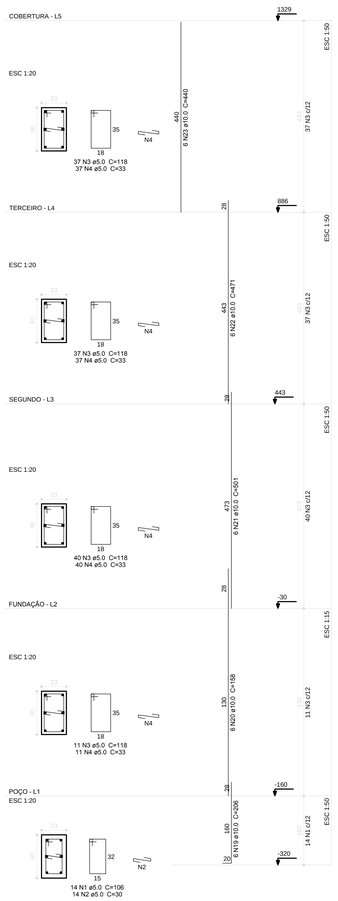
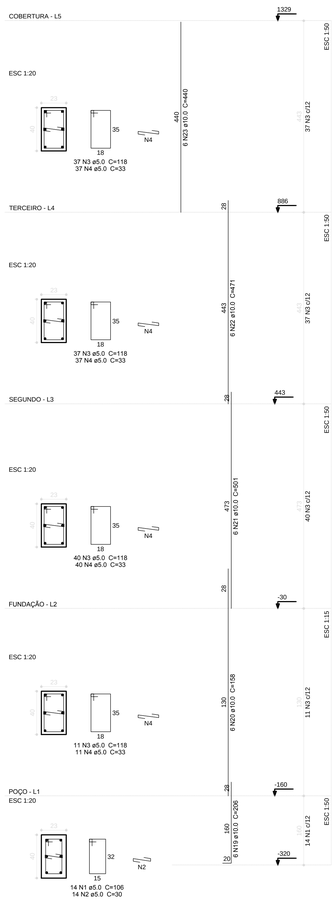
P70



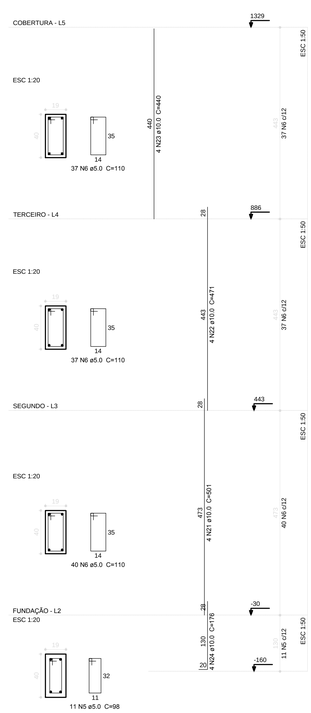
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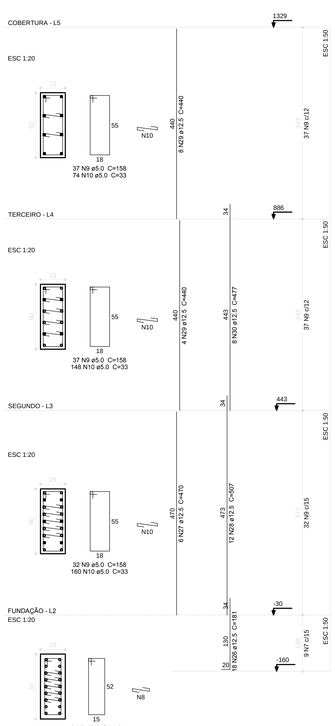
P72



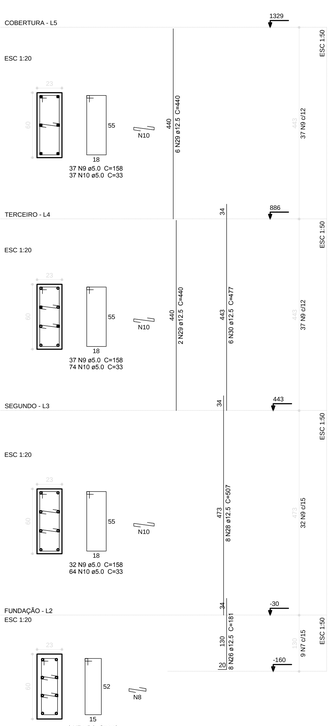
P73



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Relação do aço

fundação: P70 P73 P74 P75 P76 P77 P78 P79 P80 P81

poço: P71 P72

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	50	106	5300
	2	5.0	61	30	1830
	3	5.0	250	118	29500
	4	5.0	632	33	20856
	5	5.0	22	98	2156
	6	5.0	228	110	25080
	7	5.0	29	146	4234
	8	5.0	63	30	1890
	9	5.0	326	158	51508
	10	5.0	557	33	18381
	11	5.0	18	120	2160
	12	5.0	360	132	47520
	13	5.0	7	220	1540
	14	5.0	28	47	1316
	15	5.0	18	42	756
	16	5.0	136	45	6120
CA50	17	6.3	125	232	29000
	18	6.3	504	51	25704
	19	10.0	12	206	2472
	20	10.0	12	158	1896
	21	10.0	32	501	16032
	22	10.0	28	471	13188
	23	10.0	32	440	14080
	24	10.0	20	176	3520
	25	10.0	14	144	2016
	26	12.5	38	181	6878
	27	12.5	10	470	4700
	28	12.5	28	507	14196
	29	12.5	24	440	10560
	30	12.5	22	477	10494
	31	12.5	4	469	1876
	32	16.0	20	190	3800
	33	16.0	20	517	10340
	34	16.0	20	487	9740
	35	16.0	20	440	8800

Resumo do aço

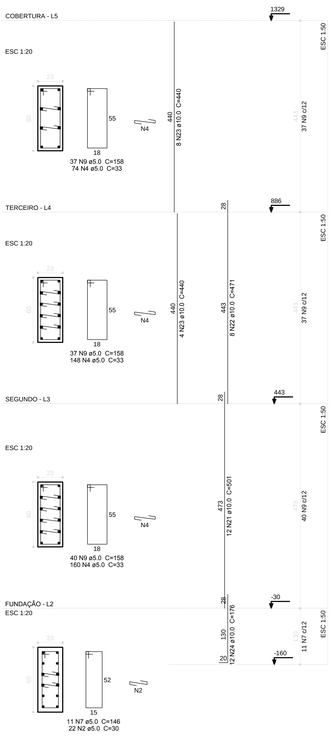
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	547.1	147.2
	10.0	532.1	360.8
	12.5	487.1	516.1
	16.0	326.8	567.4
CA60	5.0	2201.5	373.3

PESO TOTAL (kg)

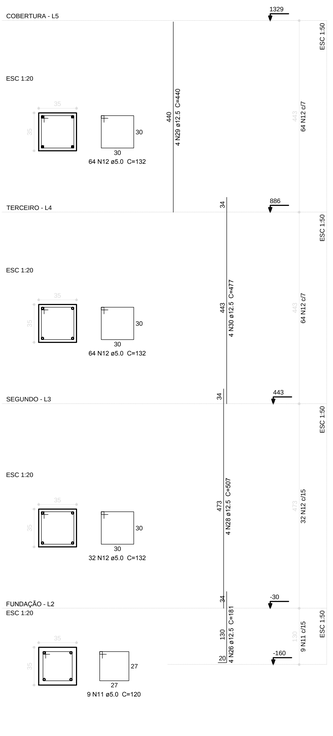
CA50 1591.6
CA60 373.3

Volume de concreto (C-40) = 20.15 m³
Área de forma = 231.96 m²

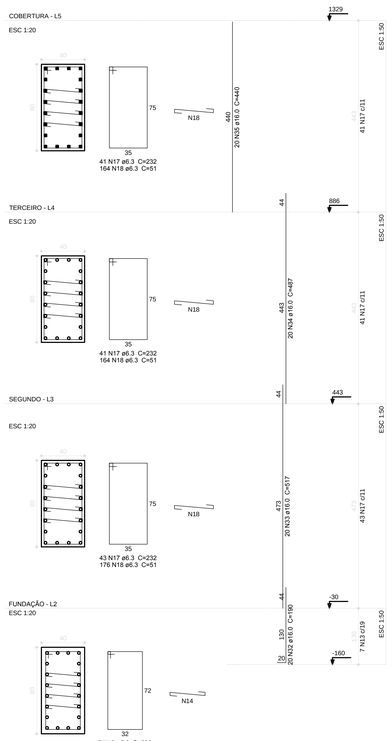
P76



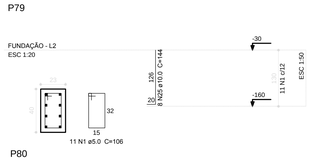
P77



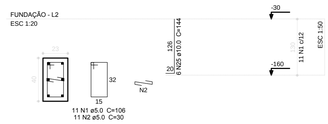
P78



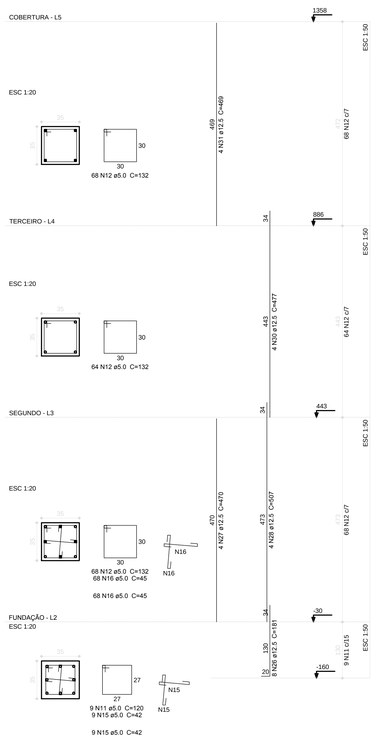
P79



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REVISÃO	OBSERVAÇÃO	DATA

MINISTÉRIO DA EDUCAÇÃO
UNIVERSIDADE FEDERAL DE LAVRAS

PROJETO

TÍTULO:

PROJETO EXECUTIVO - ENGENHARIAS

CONTEÚDO:

PROJETO DE ESTRUTURA

PILARES: P70 À P81

AUTOR DO PROJETO:

MARIUS OLIVEIRA COSTA CREA 90786/D

EXECUÇÃO DE OBRA:

APROVAÇÃO DO LAYOUT (PROF. RESPONSÁVEL):

DATA:	REVISÃO DATA:	PROJETO:
03/09/2018		ESTRUTURA
ESCALA: INDICADA	ÁREA: (m²) 4772,00 m²	FOLHA: 39/40