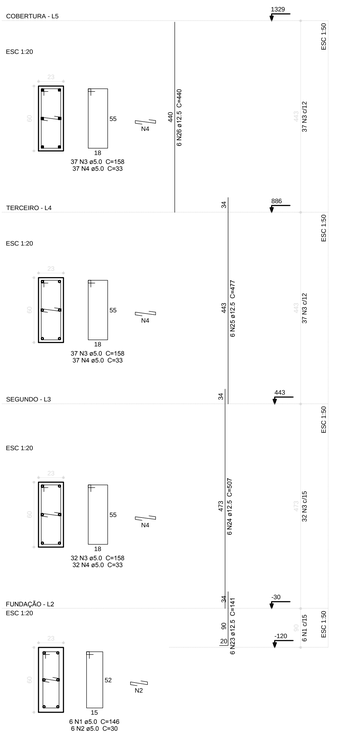
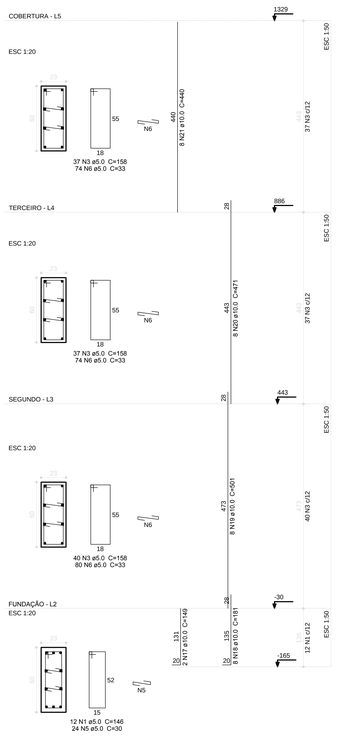
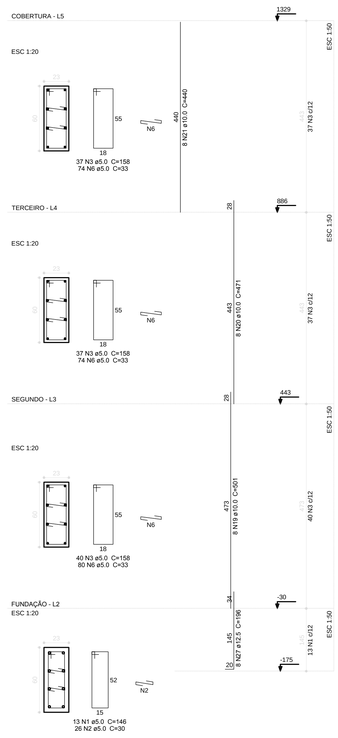
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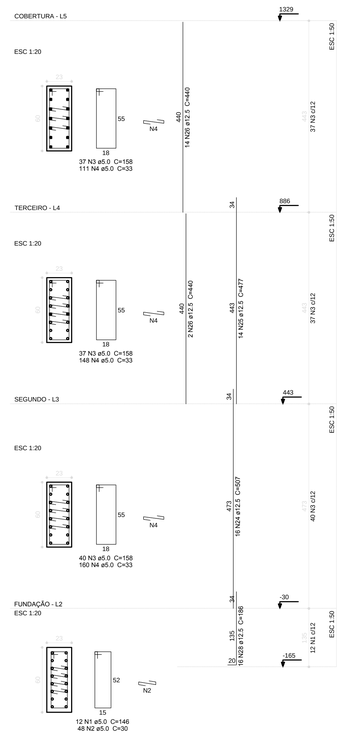
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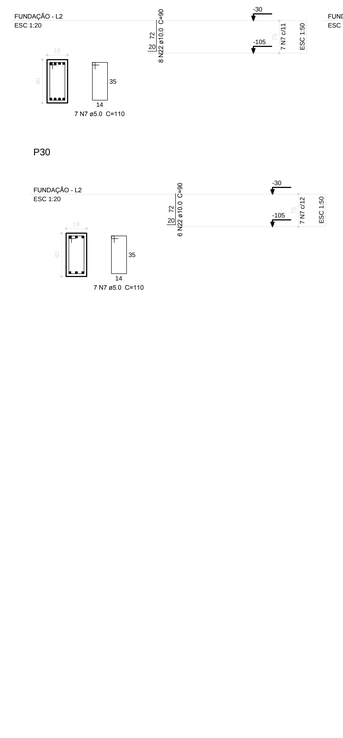
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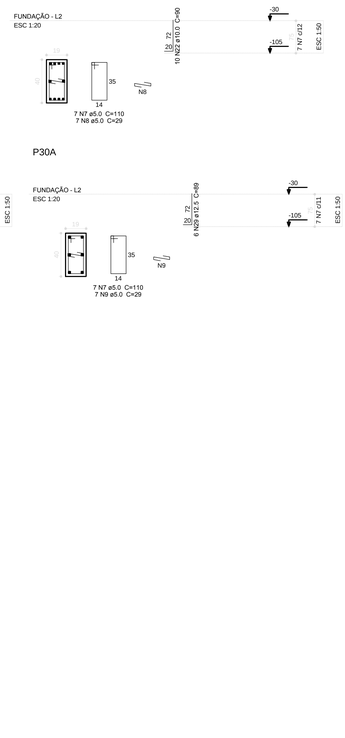
P28



P29



P29A



P30

P30A

Relação do aço

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P28 P29 P29A
P30 P30A P31
P32 P33 P34
P35

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	62	146	9052
	2	5.0	133	30	3990
	3	5.0	774	158	122292
	4	5.0	1493	33	49269
	5	5.0	24	30	720
	6	5.0	456	33	15048
	7	5.0	28	110	3080
	8	5.0	7	29	203
	9	5.0	7	29	203
	10	5.0	4	292	1168
	11	5.0	20	99	1980
	12	5.0	28	69	1932
CA50	13	6.3	285	292	83220
	14	6.3	1425	101	143925
	15	6.3	2705	71	192055
	16	6.3	128	232	29696
	17	10.0	2	149	298
	18	10.0	8	181	1448
	19	10.0	16	501	8016
	20	10.0	16	471	7536
	21	10.0	16	440	7040
	22	10.0	24	90	2160
	23	12.5	20	141	2820
	24	12.5	56	507	28392
	25	12.5	50	477	23850
	26	12.5	56	440	24640
	27	12.5	8	196	1568
	28	12.5	16	186	2976
	29	12.5	6	89	534
	30	12.5	22	146	3212
	31	12.5	2	470	940
	32	16.0	32	205	6560
	33	16.0	64	517	33088
	34	16.0	90	440	39600
	35	16.0	26	88	2288
	36	16.0	38	487	18506
	37	16.0	32	130	4160

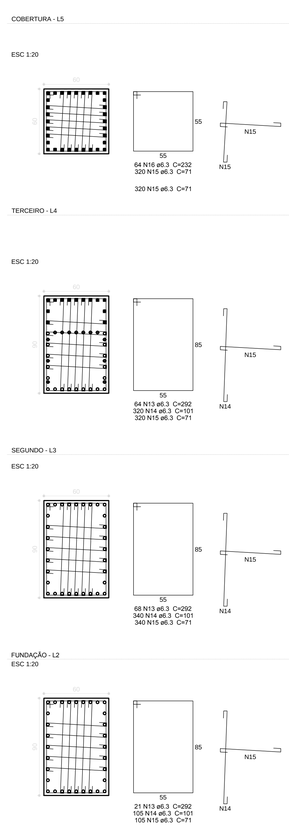
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	4489	1208.3
	10.0	265	179.7
	12.5	889.4	942.4
	16.0	1042.1	1809.1
CA60	5.0	2089.4	354.2

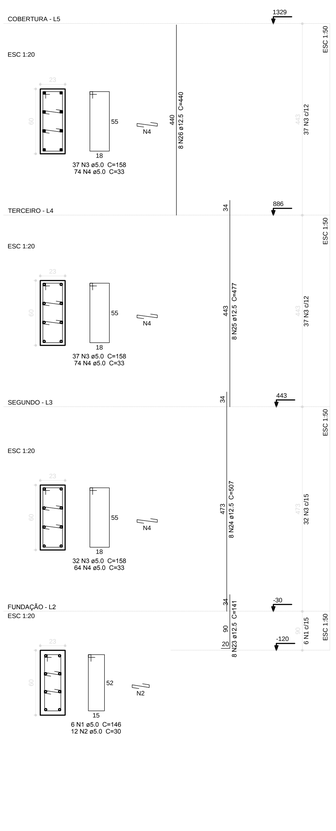
PESO TOTAL (kg)	
CA50	4139.5
CA60	354.2

Volume de concreto (C-40) = 28.68 m³
Área de forma = 257.08 m²

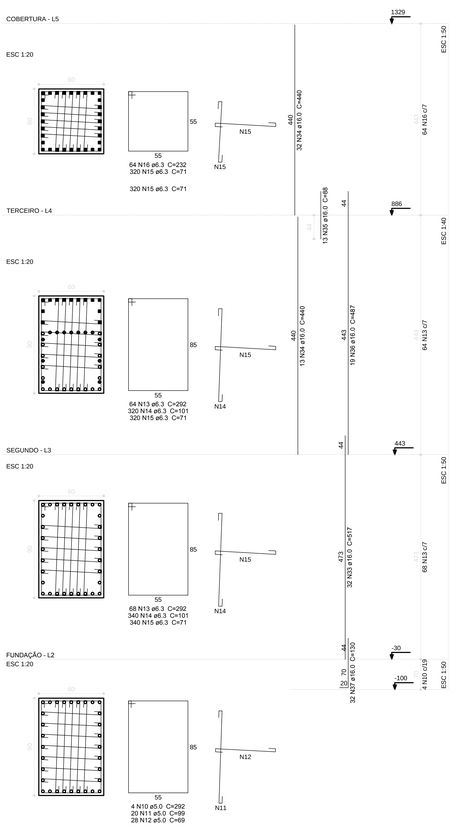
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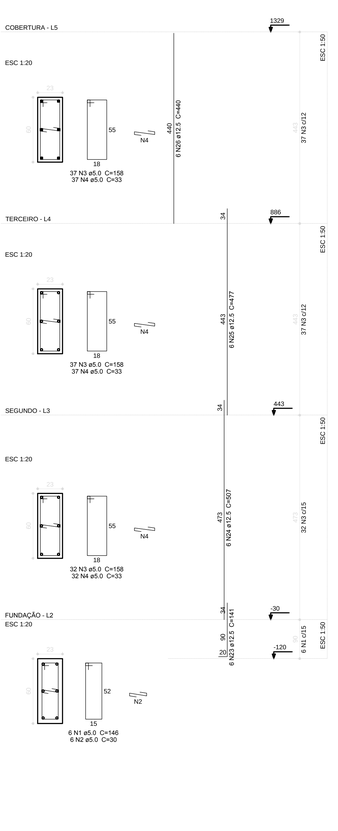
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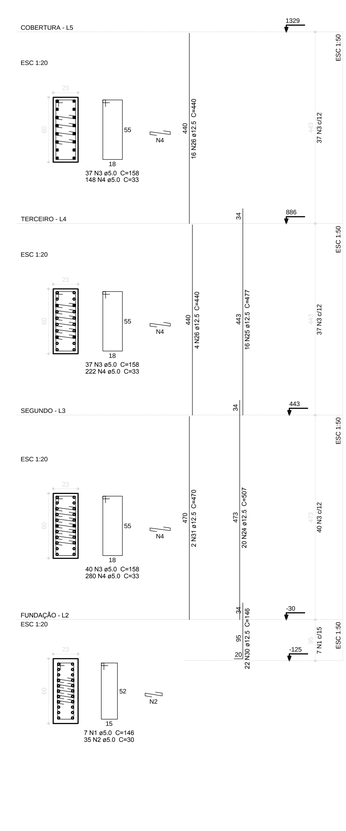
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REVISÃO	OBSERVAÇÃO	DATA

MINISTÉRIO DA EDUCAÇÃO
UNIVERSIDADE FEDERAL DE LAVRAS

PROJETO

TÍTULO:

PROJETO EXECUTIVO - ENGENHARIAS

CONTEÚDO:

PROJETO DE ESTRUTURA

PILARES: P25 À P35

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:	ÁREA: (m²)	FOLHA:
INDICADA	4772,00 m²	35/40