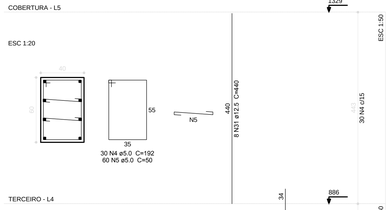
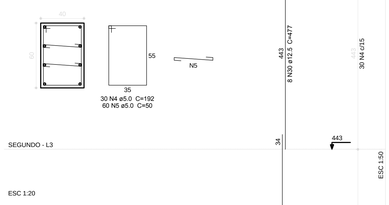
P82

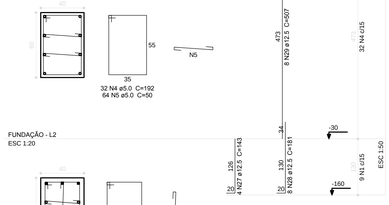
COBERTURA - L5



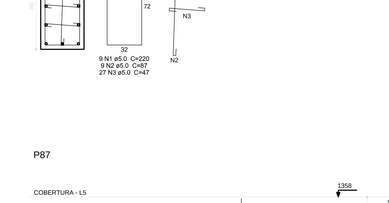
TERCEIRO - L4



SEGUNDO - L3

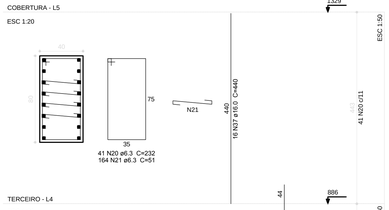


FUNDAÇÃO - L2

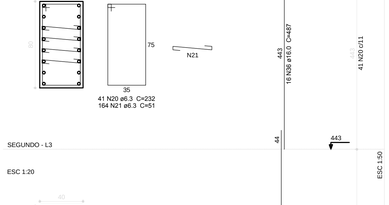


P83

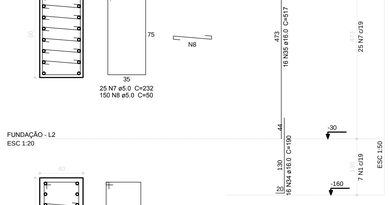
COBERTURA - L5



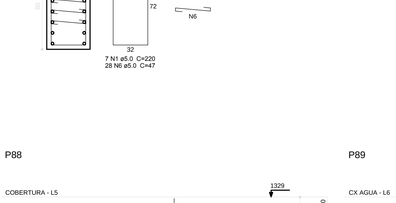
TERCEIRO - L4



SEGUNDO - L3

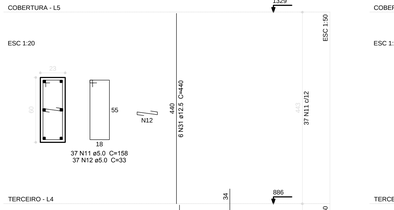


FUNDAÇÃO - L2

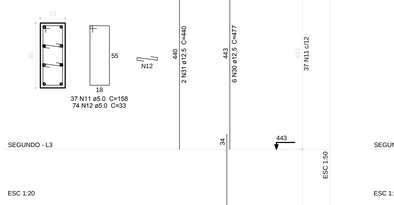


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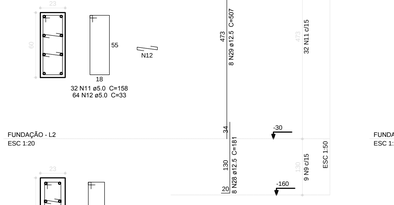
COBERTURA - L5



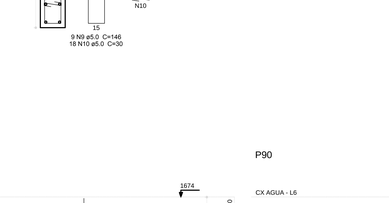
TERCEIRO - L4



SEGUNDO - L3

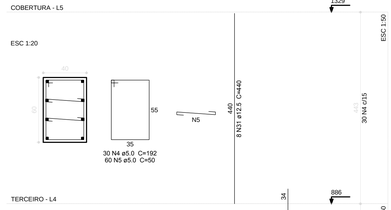


FUNDAÇÃO - L2

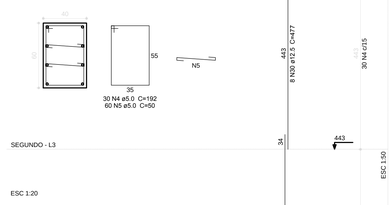


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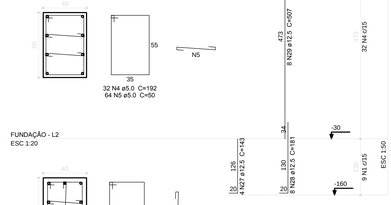
COBERTURA - L5



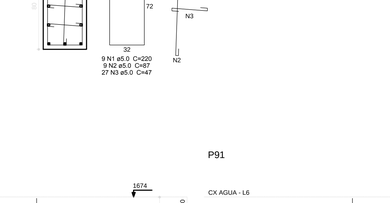
TERCEIRO - L4



SEGUNDO - L3

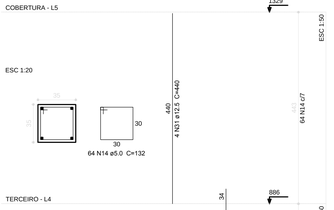


FUNDAÇÃO - L2

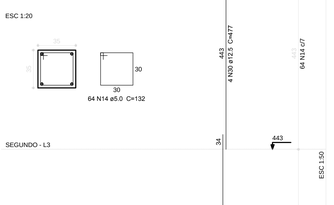


P86

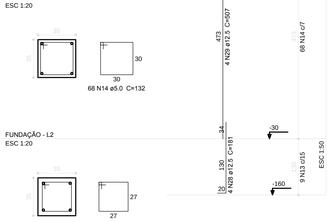
COBERTURA - L5



TERCEIRO - L4



SEGUNDO - L3



FUNDAÇÃO - L2



Relação do aço

cx agua: P89, P90, P91, P92, P93, P94, P95, P96

fundação: P82, P83, P84, P85, P86, P87, P88

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	25	220	5500
	2	5.0	18	87	1566
	3	5.0	54	47	2538
	4	5.0	184	192	35328
	5	5.0	368	50	18400
	6	5.0	28	47	1316
	7	5.0	25	232	5800
	8	5.0	150	50	7500
	9	5.0	20	146	2920
	10	5.0	18	30	540
	11	5.0	220	158	34760
	12	5.0	175	33	5775
	13	5.0	18	120	2160
	14	5.0	326	132	43032
	15	5.0	18	42	756
	16	5.0	64	45	2880
	17	5.0	22	30	660
	18	5.0	228	33	7524
	19	5.0	232	110	25520
CA50	20	6.3	82	232	19024
	21	6.3	328	51	16728
	22	10.0	8	176	1408
	23	10.0	8	501	4008
	24	10.0	8	471	3768
	25	10.0	8	440	3520
	26	10.0	56	342	19152
	27	12.5	8	143	1144
	28	12.5	36	181	6516
	29	12.5	32	507	16224
	30	12.5	30	477	14310
	31	12.5	28	440	12320
	32	12.5	4	470	1880
	33	12.5	4	469	1876
	34	16.0	16	190	3040
	35	16.0	16	517	8272
	36	16.0	16	487	7792
	37	16.0	16	440	7040

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	357.6	96.2
	10.0	318.6	216
	12.5	542.7	575.1
	16.0	261.5	453.9
CA60	5.0	2044.8	346.7

PESO TOTAL (kg)	
CA50	1341.3
CA60	345.7

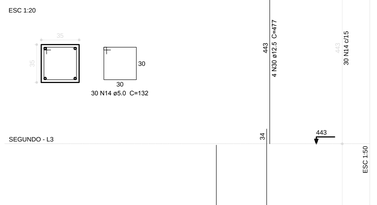
Volume de concreto (C-40) = 22.01 m³
Área de forma = 220.44 m²

P87

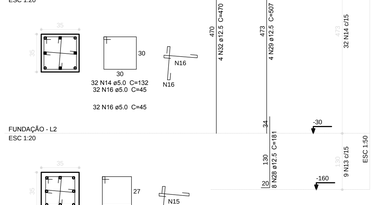
COBERTURA - L5



TERCEIRO - L4



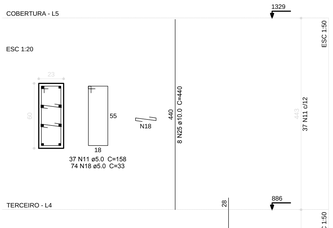
SEGUNDO - L3



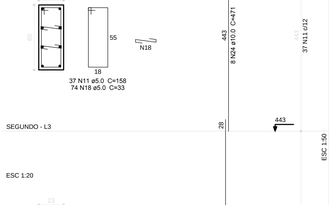
FUNDAÇÃO - L2

P88

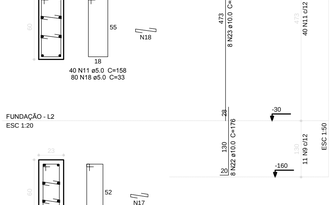
COBERTURA - L5



TERCEIRO - L4



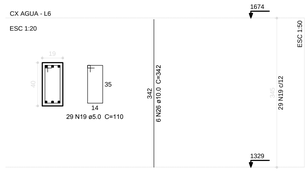
SEGUNDO - L3



FUNDAÇÃO - L2

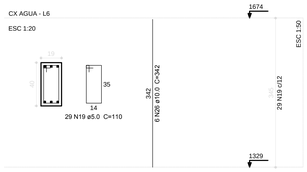
P89

CX AGUA - L6



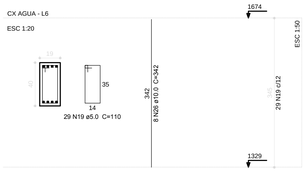
P90

CX AGUA - L6



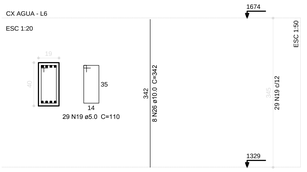
P91

CX AGUA - L6



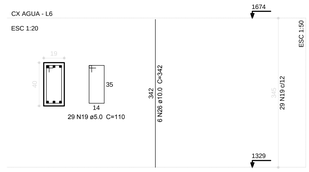
P92

CX AGUA - L6



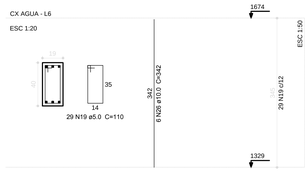
P93

CX AGUA - L6



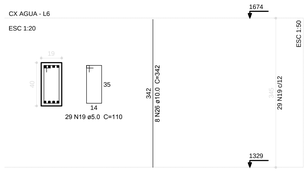
P94

CX AGUA - L6



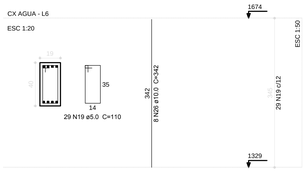
P95

CX AGUA - L6



P96

CX AGUA - L6



REVISÃO	OBSERVAÇÃO	DATA

MINISTÉRIO DA EDUCAÇÃO
UNIVERSIDADE FEDERAL DE LAVRAS

PROJETO

TÍTULO:
PROJETO EXECUTIVO - ENGENHARIAS

CONTEÚDO:
PROJETO DE ESTRUTURA
PILARES: P82 À P96

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	40/40