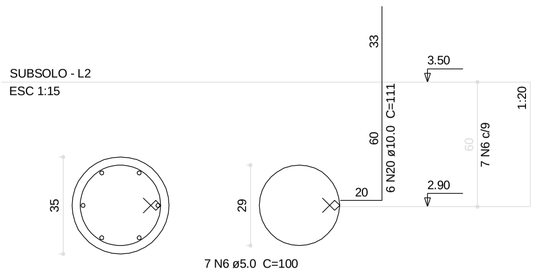
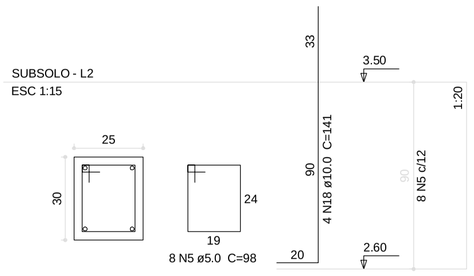
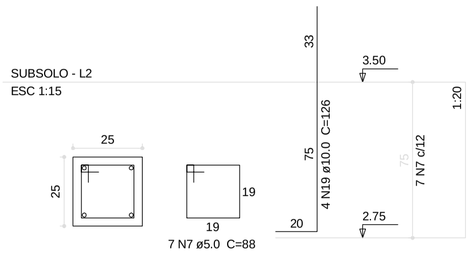
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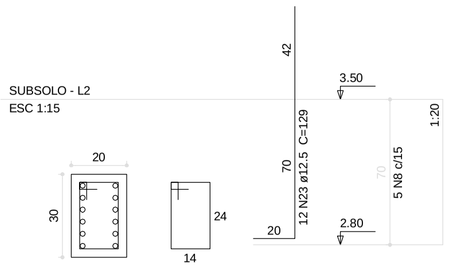
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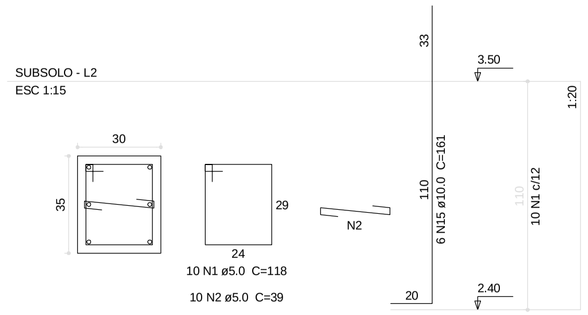
P12=P207



P123



P2=P75=P191



Relação do aço

P1	3xP2	19xP3
P10	2xP11	2xP12
2xP17	3xP20	P104
P112	P113	4xP116
P119	P123	P152
2xP156	P165	P167
P176	P177	P179
P183	P184	P185
P187	P193	P194
P196	P204	

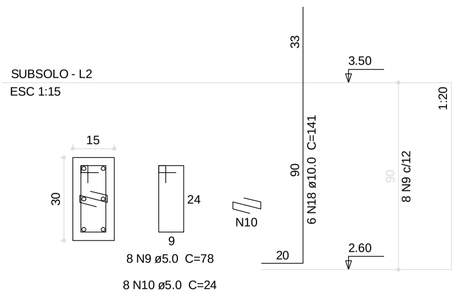
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	86	118	10148
	2	5.0	79	39	3081
	3	5.0	16	98	1568
	4	5.0	7	44	308
	5	5.0	22	98	2156
	6	5.0	28	100	2800
	7	5.0	21	88	1848
	8	5.0	37	88	3256
	9	5.0	205	78	15990
	10	5.0	29	24	696
	11	5.0	5	88	440
	12	5.0	29	29	841
	13	5.0	6	24	144
	14	5.0	21	108	2268
CA50	15	10.0	27	161	4347
	16	10.0	3	105	315
	17	10.0	6	67	402
	18	10.0	161	141	22701
	19	10.0	46	126	5796
	20	10.0	62	111	6882
	21	10.0	6	121	726
	22	10.0	3	125	375
	23	12.5	12	129	1548
	24	12.5	18	149	2682

Resumo do aço

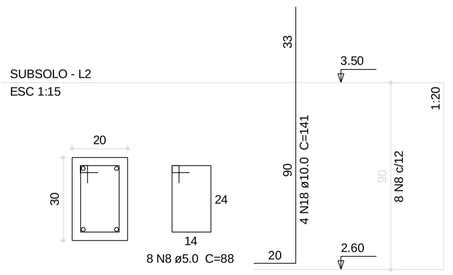
AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	415.5	281.7
	12.5	42.3	44.8
CA60	5.0	455.5	77.2
PESO TOTAL			
CA50	326.6		
CA60	77.2		

Vol. de concreto total (C-30) = 3.2 m³
Área de forma total = 50.66 m²

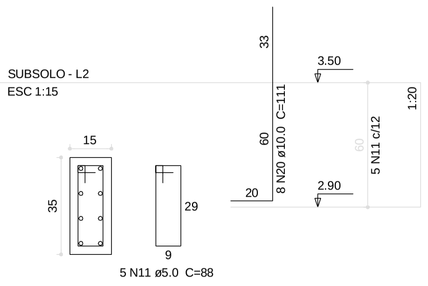
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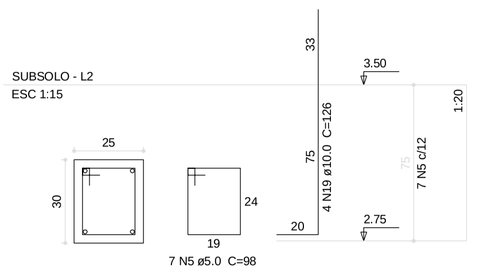
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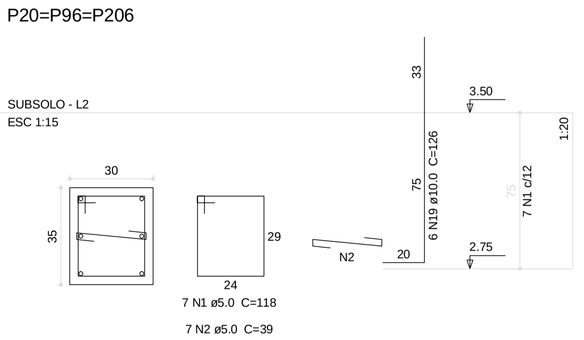
P167



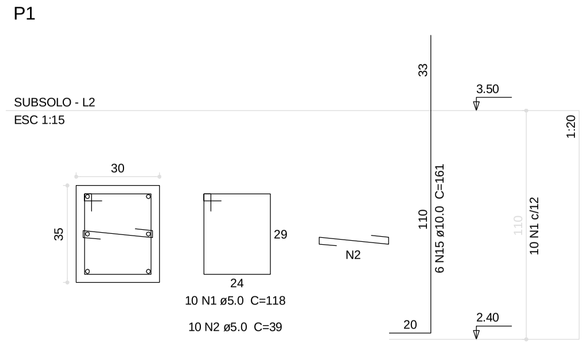
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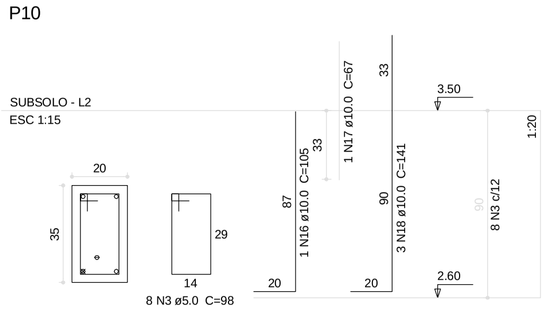
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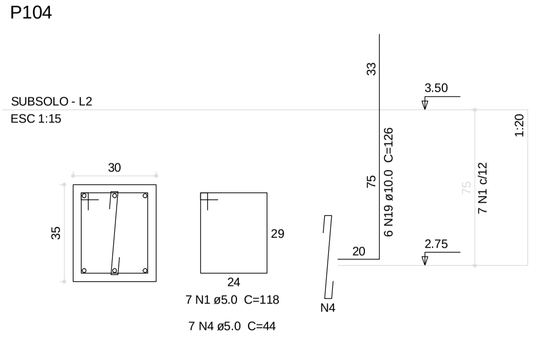
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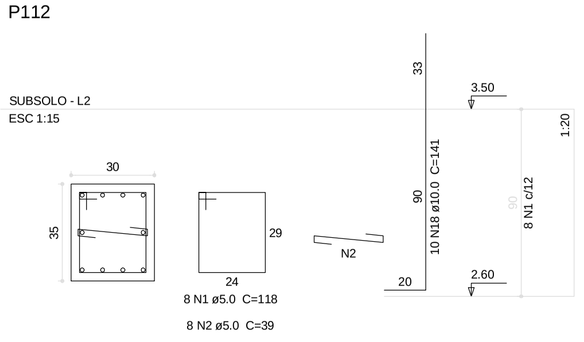
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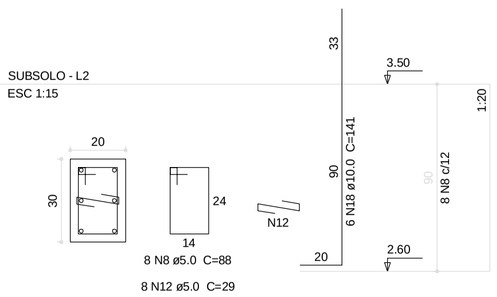
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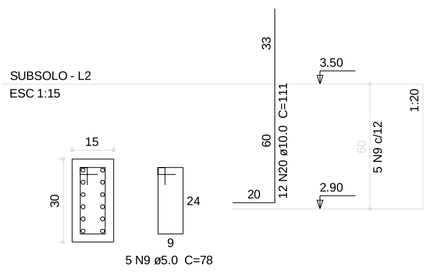
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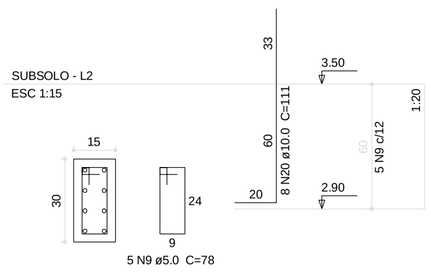
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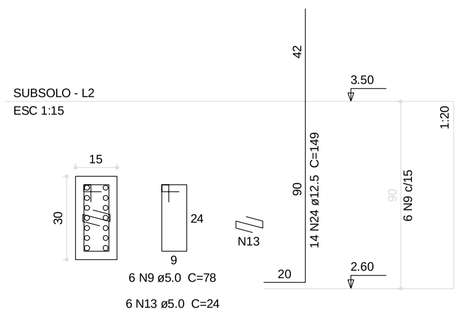
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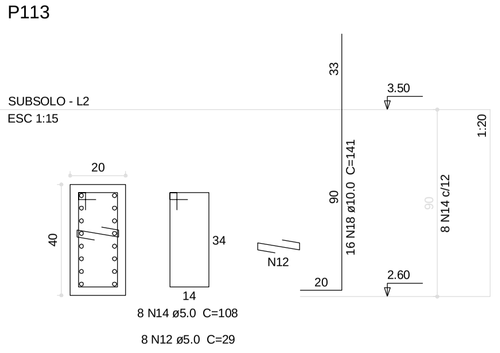
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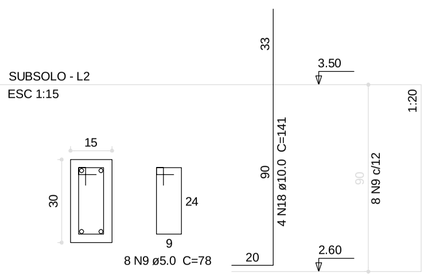
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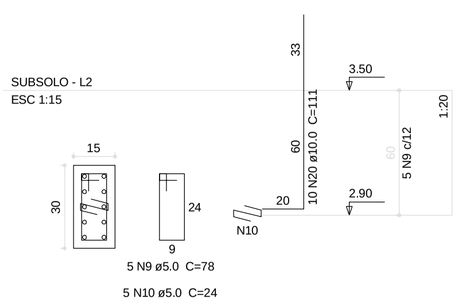
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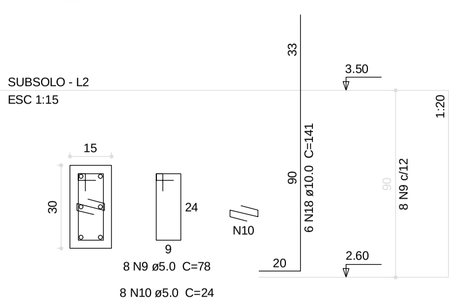
P3=P4=P9=P27=P35=P38=P57=P118=P125=P131
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=P221



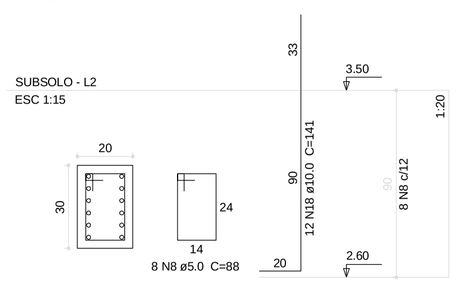
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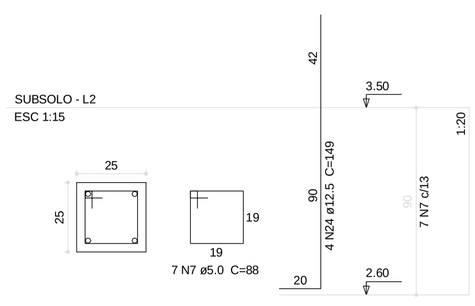
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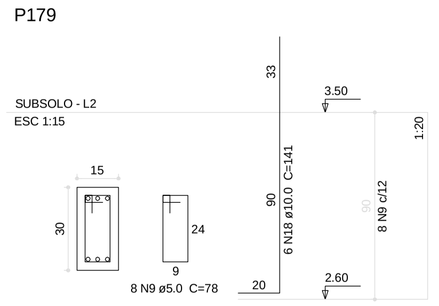
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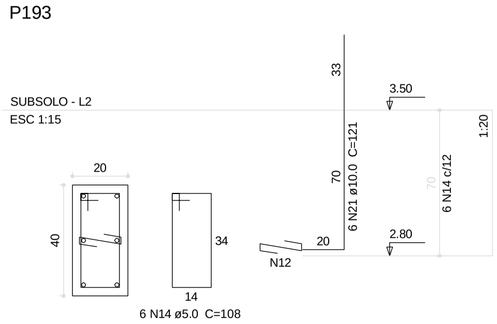
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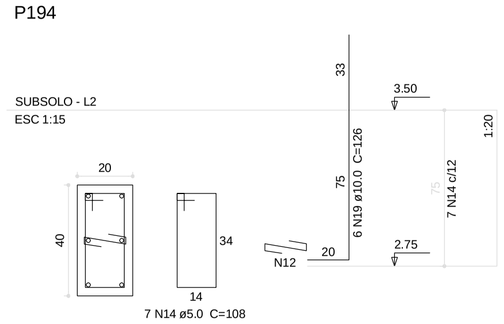
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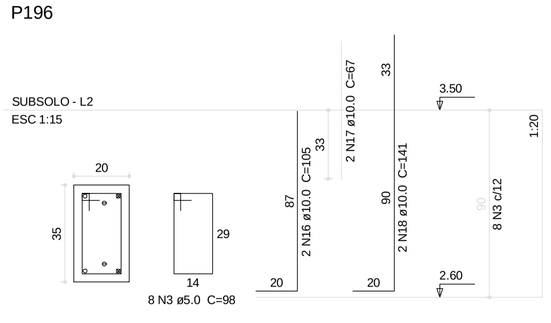
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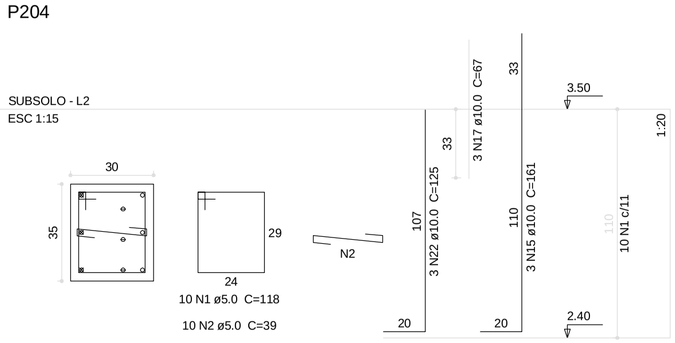
P194



P196



P204



Nº:	DATA	RESPONSÁVEL	DESCRIÇÃO DA REVISÃO:

FASE: PROJETO ESTRUTURAL

OBSERVAÇÕES: CONFERIR MEDIDAS NA OBRA

NUGEO - NÚCLEO DE GEOCIÊNCIAS
CAMPUS DIAMANTINA
RODOVIA MG 367, KM 583, Nº 5000 - ALTO DA JACUBA - DIAMANTINA/MG

PROPRIETÁRIO: UNIVERSIDADE FEDERAL DOS VALES DO JEQUITINHONHA E MUCURI — CNPJ 16.888.315/0001-57

UFVJM

TÍTULO: DETALHAMENTO DOS PILARES DO SUBSOLO-2/5

AUTOR PROJETO ESTRUTURAL / RT:

MACEDO SIQUEIRA PROJETOS & ENGENHARIA LTDA-ME
CNPJ: 09.566.686/0001-57
RT: ENG. CIVIL: ANTÔNIO AUGUSTO DE MACEDO – CREA: 81.746/DMG
RUA MARGARIDA CORTONA Nº799, CANAAN, SETE LAGOAS/MG
FONES: (31) 3771-0554 / 9997-3184

A.MACEDO Projetos e Engenharia
www.amacedoengenharia.com.br
Fones: (31)3771-0554 / 9997-3184

DETALHAMENTO:

VERSÃO:	DATA:	AUTOCAD:	FOLHA:
VERSAO 1	22.08.2011		12/71

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