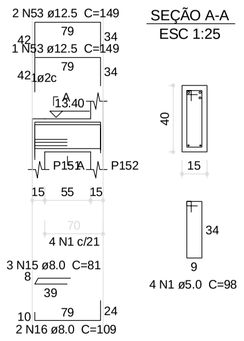
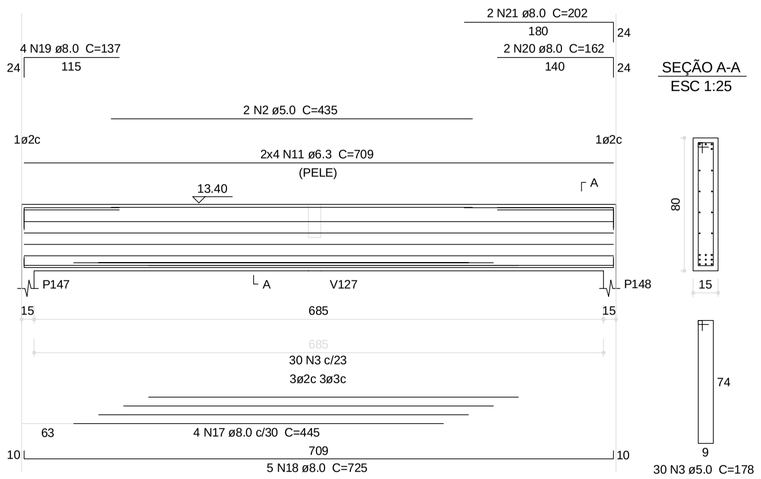
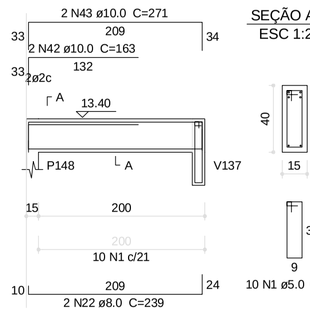
V58
1:50



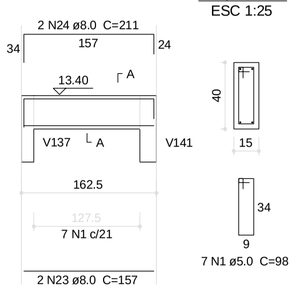
V59
1:50



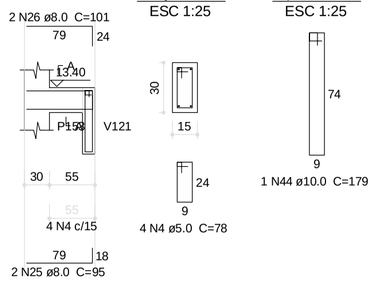
V60
1:50



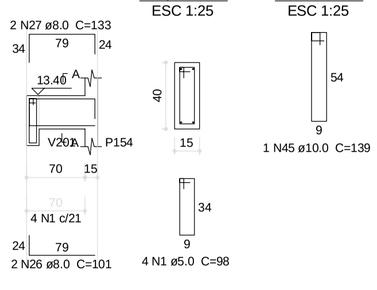
V61
1:50



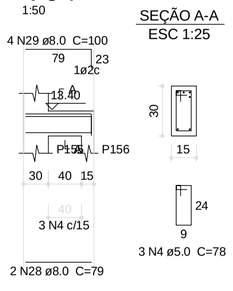
V62
1:50



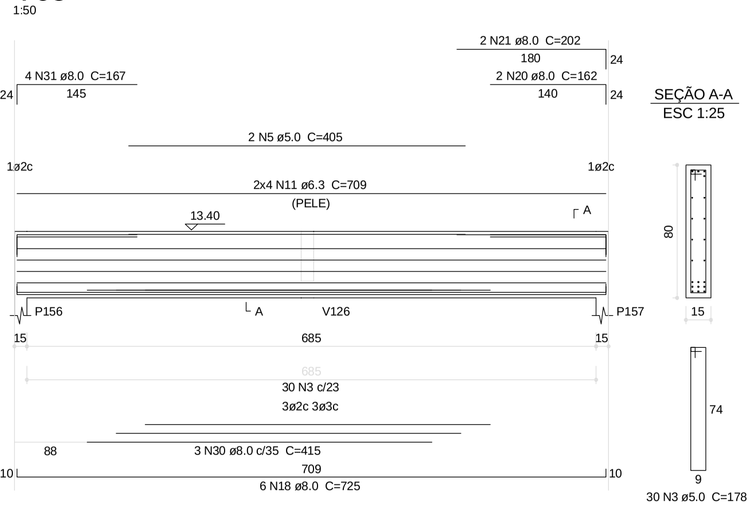
V63
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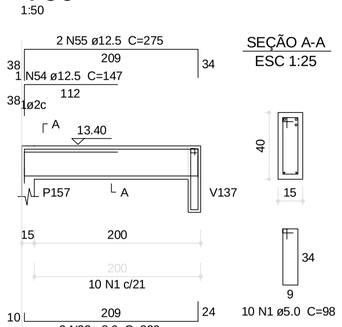
V64
1:50



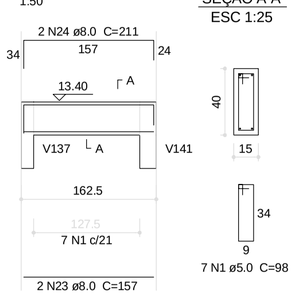
V65
1:50



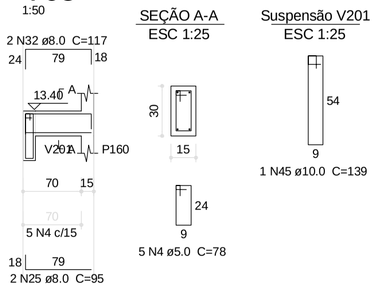
V66
1:50



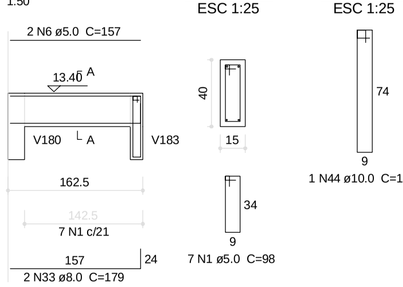
V67
1:50



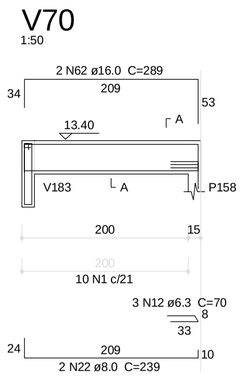
V68
1:50



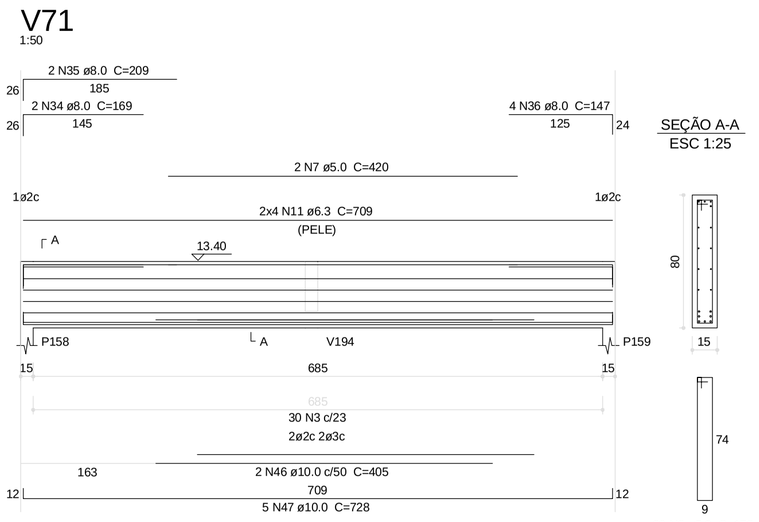
V69
1:50



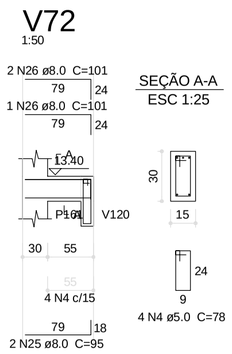
V70
1:50



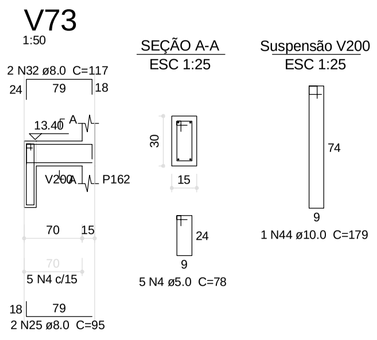
V71
1:50



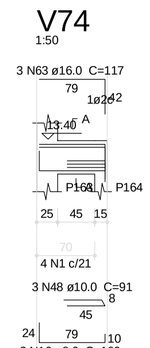
V72
1:50



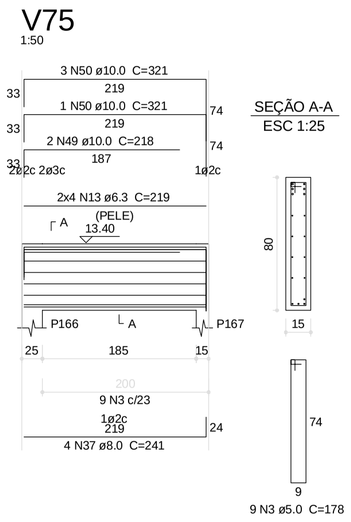
V73
1:50



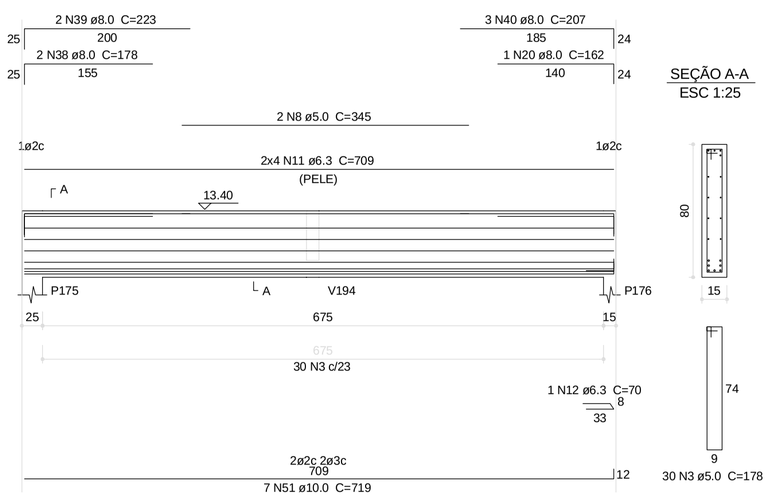
V74
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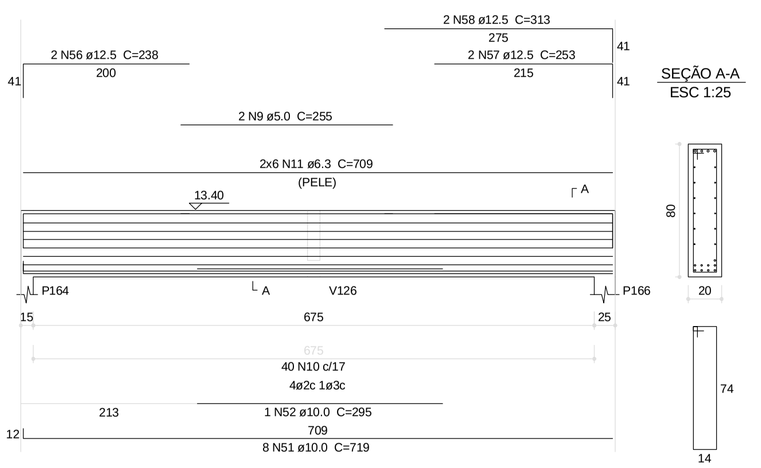
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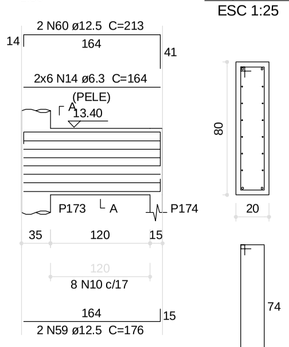
V76
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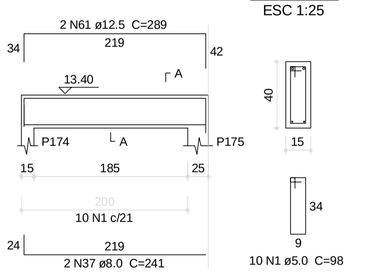
V77
1:50



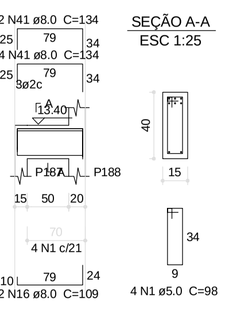
V78
1:50



V79
1:50



V85
1:50



Relação do aço

V58	V59	V60
V61	V62	V63
V64	V65	V66
V67	V68	V69
V70	V71	V72
V73	V74	V75
V76	V77	V78
V79	V85	

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	77	98	7546
	2	5.0	2	435	870
	3	5.0	129	178	22962
	4	5.0	21	78	1638
	5	5.0	2	405	810
	6	5.0	2	157	314
	7	5.0	2	420	840
	8	5.0	2	345	690
	9	5.0	2	255	510
	10	5.0	48	188	9024
CA50	11	6.3	44	709	31196
	12	6.3	4	70	280
	13	6.3	8	219	1752
	14	6.3	12	164	1968
	15	8.0	3	81	243
	16	8.0	6	109	654
	17	8.0	4	445	1780
	18	8.0	11	725	7975
	19	8.0	4	137	548
	20	8.0	5	162	810
	21	8.0	4	202	808
	22	8.0	6	239	1434
	23	8.0	4	157	628
	24	8.0	4	211	844
	25	8.0	8	95	760
	26	8.0	7	101	707
	27	8.0	2	133	266
	28	8.0	2	79	158
	29	8.0	4	100	400
	30	8.0	3	415	1245
	31	8.0	4	167	668
	32	8.0	4	117	468
	33	8.0	2	179	358
	34	8.0	2	169	338
	35	8.0	2	209	418
	36	8.0	4	147	588
	37	8.0	6	241	1446
	38	8.0	2	178	356
	39	8.0	2	223	446
	40	8.0	3	207	621
	41	8.0	6	134	804
	42	10.0	2	163	326
	43	10.0	2	271	542
	44	10.0	6	179	1074
	45	10.0	3	139	417
	46	10.0	2	405	810
	47	10.0	5	728	3640
	48	10.0	3	91	273
	49	10.0	2	218	436
	50	10.0	4	321	1284
	51	10.0	15	719	10785
	52	10.0	1	295	295
	53	12.5	3	149	447
	54	12.5	1	147	147
	55	12.5	2	275	550
	56	12.5	2	238	476
	57	12.5	2	253	506
	58	12.5	2	313	626
	59	12.5	2	176	352
	60	12.5	2	213	426
	61	12.5	2	289	578
	62	16.0	2	289	578
	63	16.0	3	117	351

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	352	94.7
	8.0	257.8	111.9
	10.0	198.9	134.8
	12.5	41.1	43.5
	16.0	9.3	16.1
CA60	5.0	452.1	76.6
PESO TOTAL			
CA50	401.1		
CA60	76.6		

Vol. de concreto total (C-30) = 6.33 m³
Área de forma total = 89.23 m²

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

TÍTULO: DETALHAMENTO DAS VIGAS DO 2º PAVIMENTO-3/11

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		54/71

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