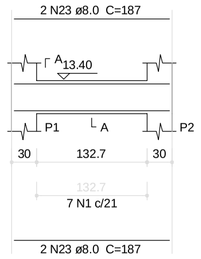
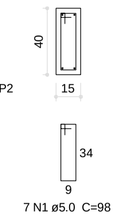
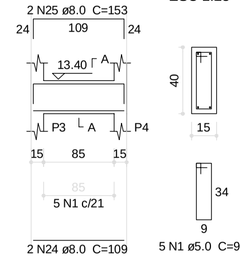
V1
1:50



SEÇÃO A-A
ESC 1:25

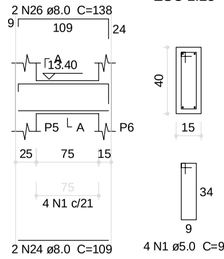


V2
1:50



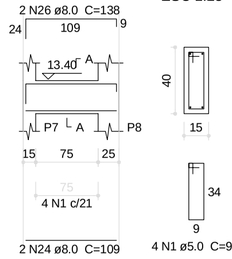
SEÇÃO A-A
ESC 1:25

V3
1:50



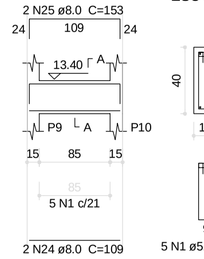
SEÇÃO A-A
ESC 1:25

V4
1:50



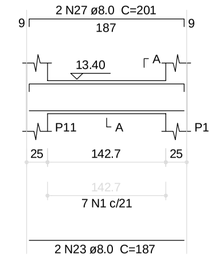
SEÇÃO A-A
ESC 1:25

V5
1:50

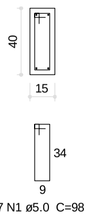


SEÇÃO A-A
ESC 1:25

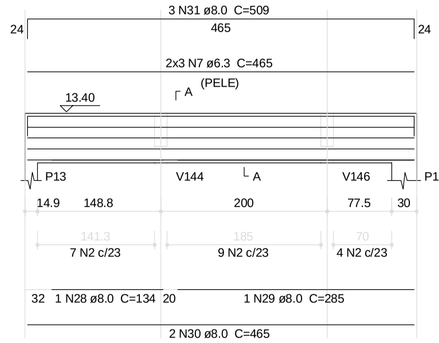
V6
1:50



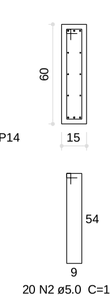
SEÇÃO A-A
ESC 1:25



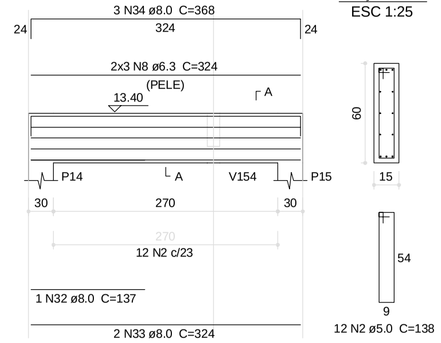
V7
1:50



SEÇÃO A-A
ESC 1:25

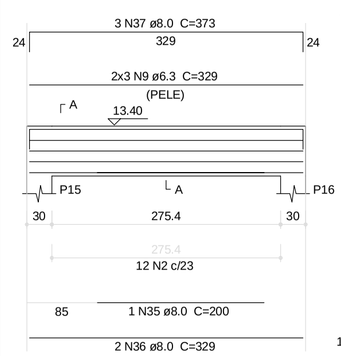


V8
1:50

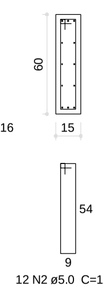


SEÇÃO A-A
ESC 1:25

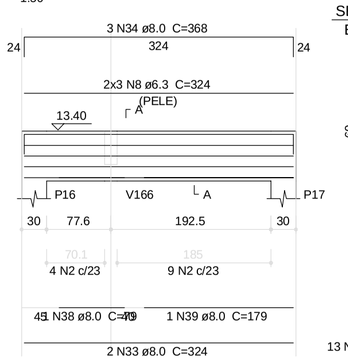
V9
1:50



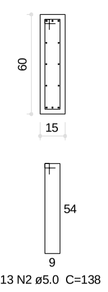
SEÇÃO A-A
ESC 1:25



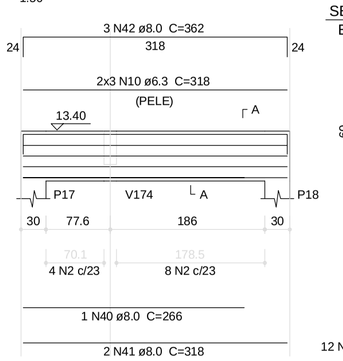
V10
1:50



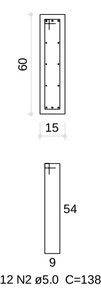
SEÇÃO A-A
ESC 1:25



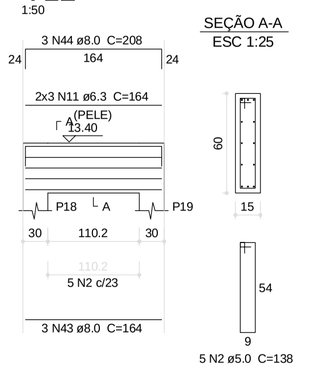
V11
1:50



SEÇÃO A-A
ESC 1:25

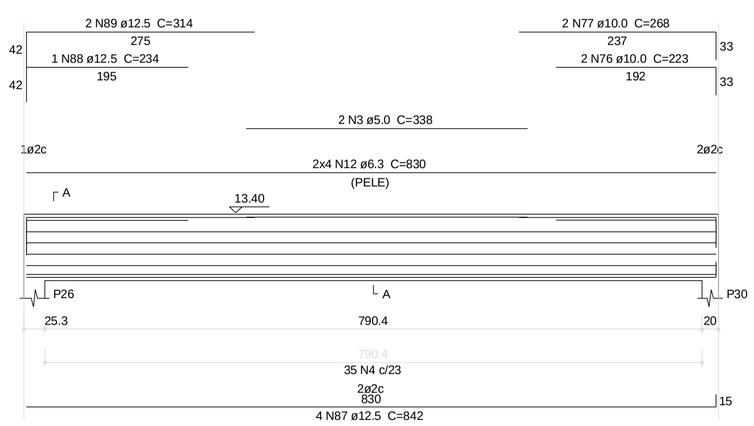


V12
1:50

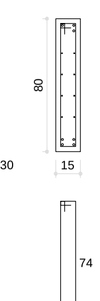


SEÇÃO A-A
ESC 1:25

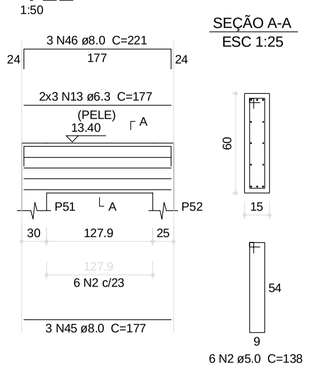
V13
1:50



SEÇÃO A-A
ESC 1:25

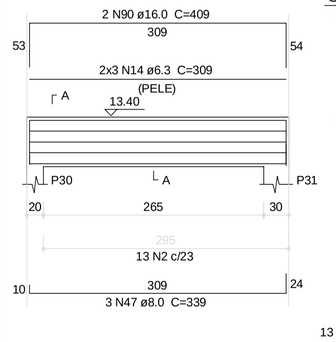


V22
1:50

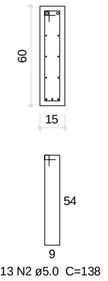


SEÇÃO A-A
ESC 1:25

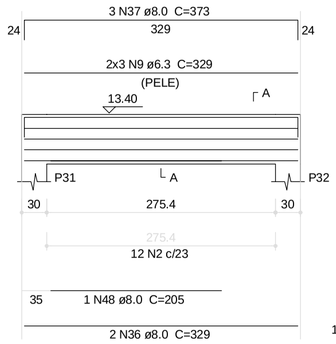
V14
1:50



SEÇÃO A-A
ESC 1:25

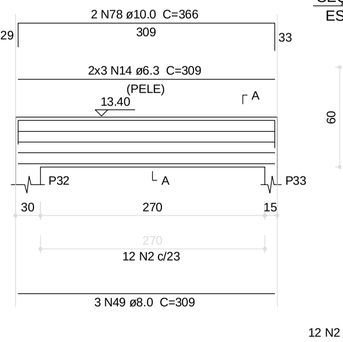


V15
1:50

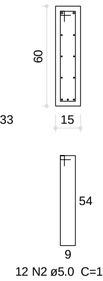


SEÇÃO A-A
ESC 1:25

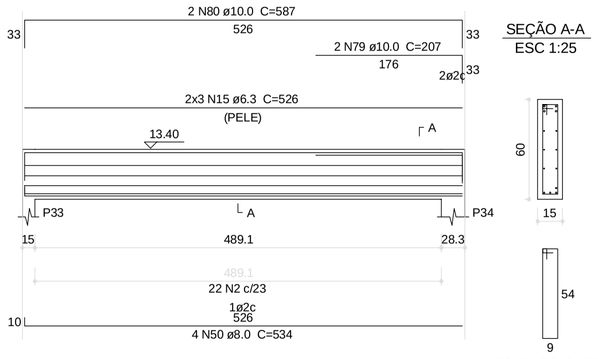
V16
1:50



SEÇÃO A-A
ESC 1:25

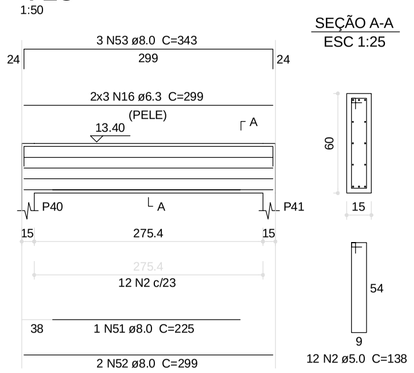


V17
1:50



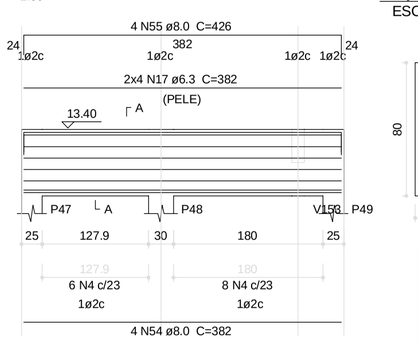
SEÇÃO A-A
ESC 1:25

V18
1:50

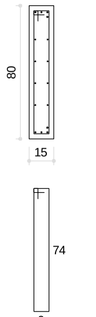


SEÇÃO A-A
ESC 1:25

V19
1:50



SEÇÃO A-A
ESC 1:25



V20
1:50

SEÇÃO A-A
ESC 1:25

V21
1:50

SEÇÃO A-A
ESC 1:25

V23
1:50

SEÇÃO A-A
ESC 1:25

V24
1:50

SEÇÃO A-A
ESC 1:25

V25
1:50

SEÇÃO A-A
ESC 1:25

V26
1:50

SEÇÃO A-A
ESC 1:25

V27
1:50

SEÇÃO A-A
ESC 1:25

V28
1:50

SEÇÃO A-A
ESC 1:25

Suspensão V152
ESC 1:25

V29
1:50

SEÇÃO A-A
ESC 1:25

Suspensão V167
ESC 1:25

V31
1:50

SEÇÃO A-A
ESC 1:25

V32
1:50

SEÇÃO A-A
ESC 1:25

V33
1:50

SEÇÃO A-A
ESC 1:25

V34
1:50

SEÇÃO A-A
ESC 1:25

V44
1:50

SEÇÃO A-A
ESC 1:25

Relação do aço

V1	V2	V3
V4	V5	V6
V7	V8	V9
V10	V11	V12
V13	V14	V15
V16	V17	V18
V19	V20	V21
V22	V23	V24
V25	V26	V27
V28	V29	V31
V32	V33	V34
V44		

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	59	98	5782
	2	5.0	151	138	20838
	3	5.0	2	338	676
	4	5.0	101	178	17978
	5	5.0	33	198	6534
	6	5.0	20	148	2960
CA50	7	6.3	6	465	2790
	8	6.3	12	324	3888
	9	6.3	12	329	3948
	10	6.3	6	318	1908
	11	6.3	6	164	984
	12	6.3	8	830	6640
	13	6.3	6	177	1062
	14	6.3	12	309	3708
	15	6.3	6	526	3156
	16	6.3	6	299	1794
	17	6.3	8	382	3056
	18	6.3	8	229	1832
	19	6.3	8	252	2016
	20	6.3	24	199	4776
	21	6.3	16	204	3264
	22	6.3	8	257	2056
	23	8.0	6	187	1122
	24	8.0	8	109	872
	25	8.0	4	153	612
	26	8.0	4	138	552
	27	8.0	2	201	402
	28	8.0	1	134	134
	29	8.0	1	285	285
	30	8.0	2	465	930
	31	8.0	3	509	1527
	32	8.0	1	137	137
	33	8.0	4	324	1296
	34	8.0	6	368	2208
	35	8.0	3	200	600
	36	8.0	4	329	1316
	37	8.0	6	373	2238
	38	8.0	3	79	237
	39	8.0	1	179	179
	40	8.0	1	266	266
	41	8.0	2	318	636
	42	8.0	3	362	1086
	43	8.0	3	164	492
	44	8.0	3	208	624
	45	8.0	3	177	531
	46	8.0	3	221	663
	47	8.0	3	339	1017
	48	8.0	1	205	205
	49	8.0	3	309	927
	50	8.0	4	534	2136
	51	8.0	1	225	225
	52	8.0	2	299	598
	53	8.0	3	343	1029
	54	8.0	4	382	1528
	55	8.0	4	426	1704
	56	8.0	8	499	3992
	57	8.0	4	229	916
	58	8.0	4	273	1092
	59	8.0	2	252	504
	60	8.0	4	296	1184
	61	8.0	10	199	1990
	62	8.0	12	243	2916
	63	8.0	1	97	97
	64	8.0	1	132	132
	65	8.0	5	204	1020
	66	8.0	8	248	1984
	67	8.0	3	172	516
	68	8.0	1	202	202
	69	8.0	3	257	771
	70	8.0	4	301	1204
	71	8.0	4	222	888
	72	8.0	4	232	928
	73	8.0	4	101	404
	74	8.0	4	111	444
	75	8.0	2	123	246
	76	10.0	2	223	446
	77	10.0	2	268	536
	78	10.0	2	366	732
	79	10.0	2	207	414
	80	10.0	2	587	1174
	81	10.0	2	325	650
	82	10.0	2	499	998
	83	10.0	3	145	435
	84	10.0	1	170	170
	85	10.0	2	558	1116
	86	10.0	2	189	378
	87	12.5	4	842	3368
	88	12.5	1	234	234
	89	12.5	2	314	628
	90	16.0	2	409	818

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	468.8	126.2
	8.0	497.5	215.9
	10.0	70.5	47.8
	12.5	42.3	44.8
	16.0	8.2	14.2
CA60	5.0	547.7	92.9
PESO TOTAL			
CA50	448.9		
CA60	92.9		

Vol. de concreto total (C-30) = 9.09 m³
Área de forma total = 128.27 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

UFVJM

TÍTULO
DETALHAMENTO DAS VIGAS DO 2º PAVIMENTO-1/11

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		52/71

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