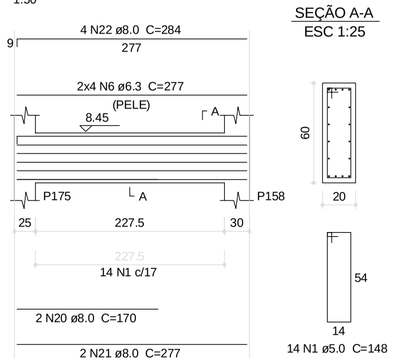
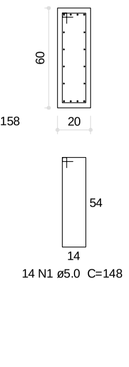
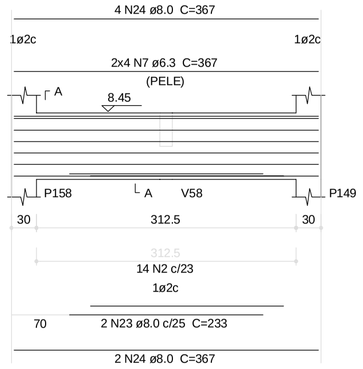
V173
1:50



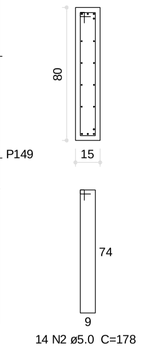
SEÇÃO A-A
ESC 1:25



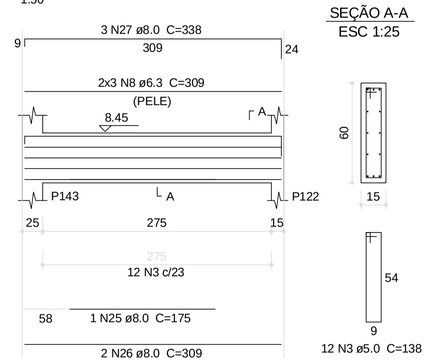
V174
1:50



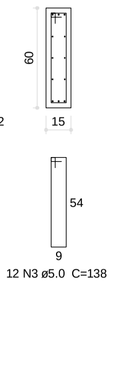
SEÇÃO A-A
ESC 1:25



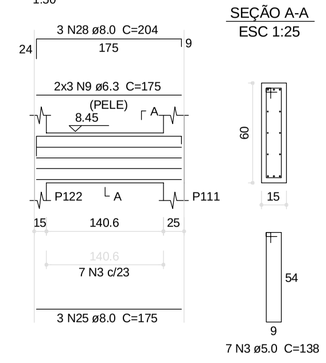
V176
1:50



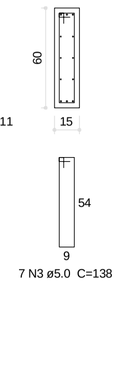
SEÇÃO A-A
ESC 1:25



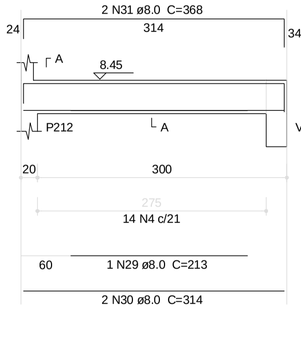
V177
1:50



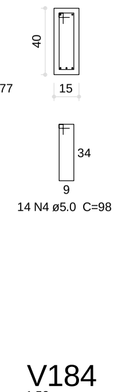
SEÇÃO A-A
ESC 1:25



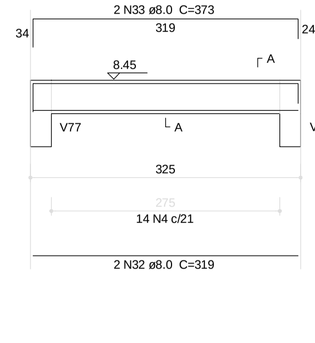
V178
1:50



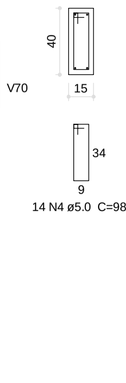
SEÇÃO A-A
ESC 1:25



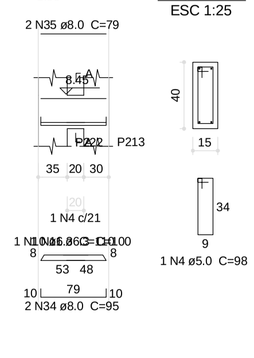
V179
1:50



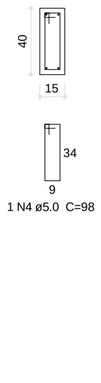
SEÇÃO A-A
ESC 1:25



V193
1:50



SEÇÃO A-A
ESC 1:25



Relação do aço

V173	V174	V176
V177	V178	V179
V180	V181	V182
V183	V184	V186
V187	V188	V189
V190	V191	V192
V193	V194	V195
V196	V197	V198
V199	V200	V201
V202	V203	V204
V205	V206	V207
V209		

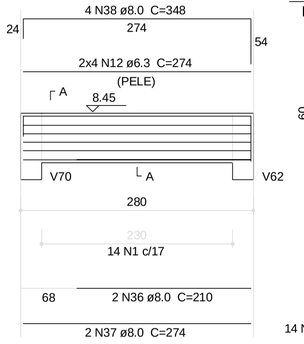
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	47	148	6956
	2	5.0	35	178	6230
	3	5.0	120	138	16560
	4	5.0	131	98	12838
	5	5.0	4	78	312
CA50	6	6.3	8	277	2216
	7	6.3	16	367	5872
	8	6.3	6	309	1854
	9	6.3	6	175	1050
	10	6.3	1	110	110
	11	6.3	2	100	200
	12	6.3	8	274	2192
	13	6.3	8	523	4184
	14	6.3	6	314	1884
	15	6.3	12	324	3888
	16	6.3	6	282	1692
	17	6.3	12	239	2868
	18	6.3	6	460	2760
	19	6.3	6	366	2196
	20	8.0	2	170	340
	21	8.0	2	277	554
	22	8.0	4	284	1136
	23	8.0	2	233	466
	24	8.0	13	367	4771
	25	8.0	4	175	700
	26	8.0	2	309	618
	27	8.0	3	338	1014
	28	8.0	3	204	612
	29	8.0	1	213	213
	30	8.0	2	314	628
	31	8.0	2	368	736
	32	8.0	2	319	638
	33	8.0	2	373	746
	34	8.0	2	95	190
	35	8.0	4	79	316
	36	8.0	2	210	420
	37	8.0	2	274	548
	38	8.0	4	348	1392
	39	8.0	2	372	744
	40	8.0	1	295	295
	41	8.0	3	531	1593
	42	8.0	2	129	258
	43	8.0	2	153	306
	44	8.0	2	537	1074
	45	8.0	24	109	2616
	46	8.0	1	100	100
	47	8.0	1	97	97
	48	8.0	2	336	672
	49	8.0	1	317	317
	50	8.0	2	388	776
	51	8.0	1	137	137
	52	8.0	1	87	87
	53	8.0	2	368	736
	54	8.0	3	376	1128
	55	8.0	1	145	145
	56	8.0	1	78	78
	57	8.0	5	282	1410
	58	8.0	1	223	223
	59	8.0	1	82	82
	60	8.0	10	239	2390
	61	8.0	5	247	1235
	62	8.0	5	324	1620
	63	8.0	1	297	297
	64	8.0	1	147	147
	65	8.0	5	460	2300
	66	8.0	2	138	276
	67	8.0	2	116	232
	68	8.0	2	189	378
	69	8.0	2	196	392
	70	8.0	4	269	1076
	71	8.0	2	218	436
	72	8.0	2	240	480
	73	8.0	2	95	190
	74	8.0	3	101	303
	75	8.0	2	108	216
	76	8.0	3	374	1122
	77	8.0	1	167	167
	78	10.0	2	253	506
	79	10.0	2	179	358
	80	10.0	2	348	696
	81	10.0	4	371	1484
	82	10.0	2	207	414
	83	10.0	2	422	844
	84	12.5	1	167	167
	85	12.5	2	430	860
	86	12.5	1	174	174
	87	12.5	2	279	558

Resumo do aço

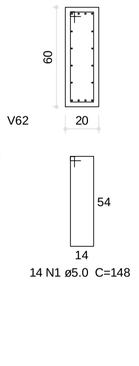
AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	329.7	88.7
	8.0	421.7	183
	10.0	43.1	29.2
	12.5	17.6	18.6
CA60	5.0	429	72.7
PESO TOTAL			
CA50	319.6		
CA60	72.7		

Vol. de concreto total (C-30) = 7.09 m³
Área de forma total = 104.01 m²

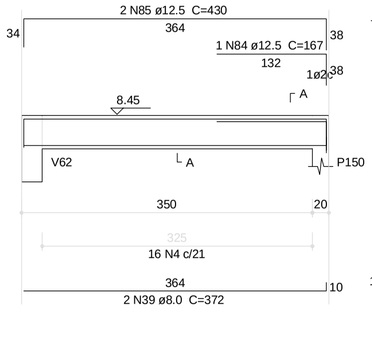
V180
1:50



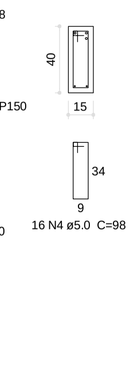
SEÇÃO A-A
ESC 1:25



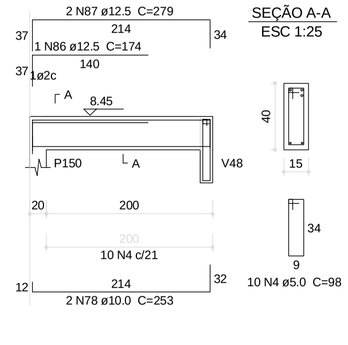
V181
1:50



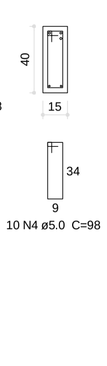
SEÇÃO A-A
ESC 1:25



V182
1:50

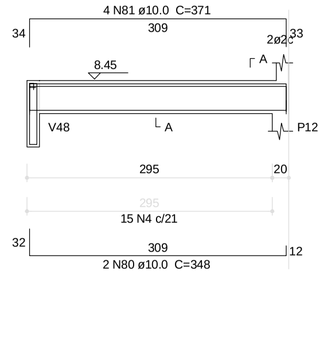


SEÇÃO A-A
ESC 1:25

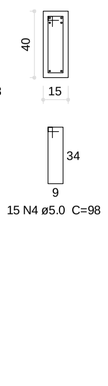


Suspensão V48
ESC 1:25

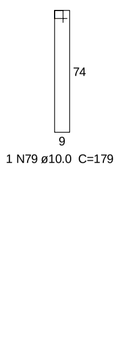
V183
1:50



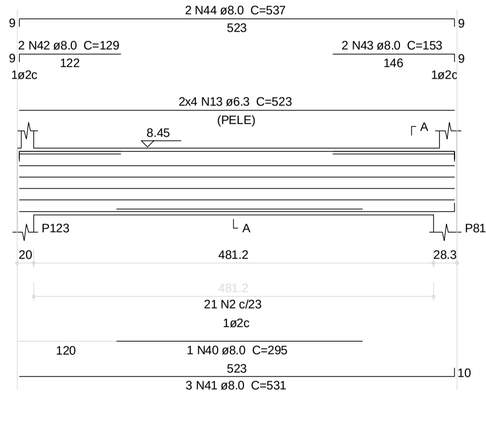
SEÇÃO A-A
ESC 1:25



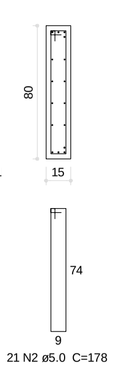
Suspensão V48
ESC 1:25



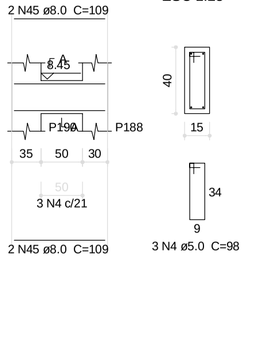
V184
1:50



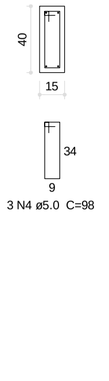
SEÇÃO A-A
ESC 1:25



V194
1:50



SEÇÃO A-A
ESC 1:25



V186
1:50

SEÇÃO A-A
ESC 1:25

V187
1:50

SEÇÃO A-A
ESC 1:25

V188
1:50

SEÇÃO A-A
ESC 1:25

V189
1:50

SEÇÃO A-A
ESC 1:25

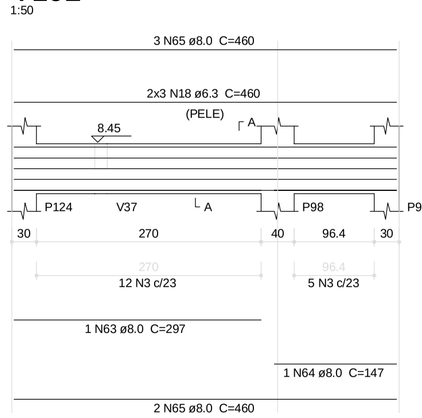
V190
1:50

SEÇÃO A-A
ESC 1:25

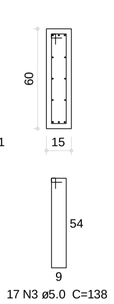
V191
1:50

SEÇÃO A-A
ESC 1:25

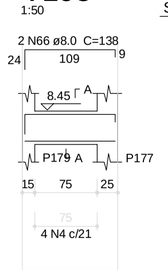
V192
1:50



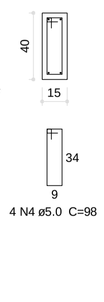
SEÇÃO A-A
ESC 1:25



V195
1:50

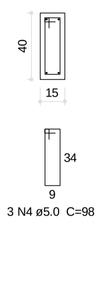


SEÇÃO A-A
ESC 1:25



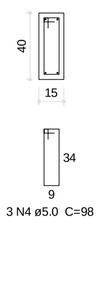
V196
1:50

SEÇÃO A-A
ESC 1:25



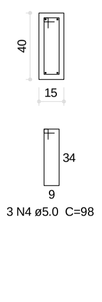
V197
1:50

SEÇÃO A-A
ESC 1:25

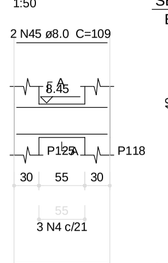


V198
1:50

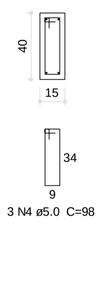
SEÇÃO A-A
ESC 1:25



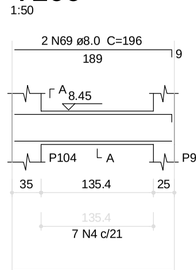
V199
1:50



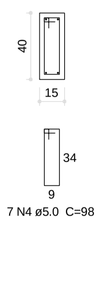
SEÇÃO A-A
ESC 1:25



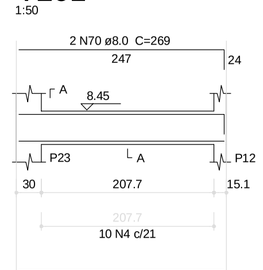
V200
1:50



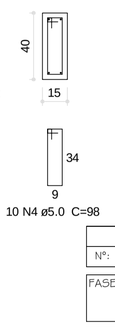
SEÇÃO A-A
ESC 1:25



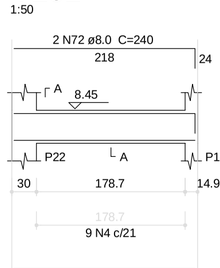
V201
1:50



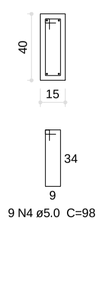
SEÇÃO A-A
ESC 1:25



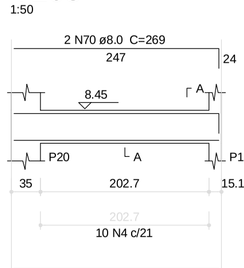
V202
1:50



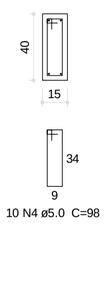
SEÇÃO A-A
ESC 1:25



V203
1:50



SEÇÃO A-A
ESC 1:25



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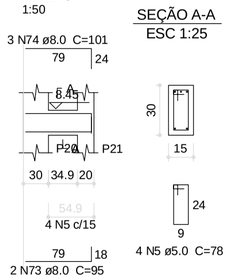

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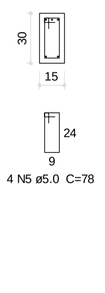

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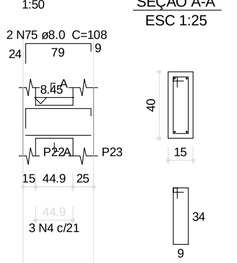

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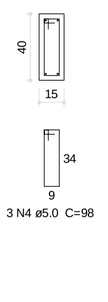

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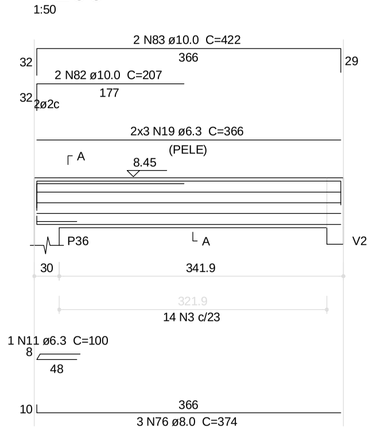

SEÇÃO A-A
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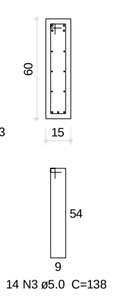

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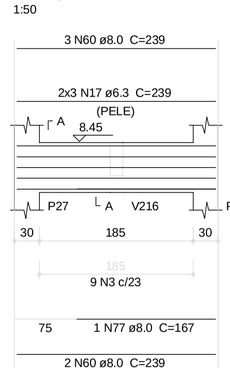

SEÇÃO A-A
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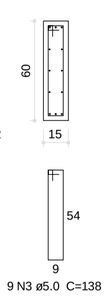

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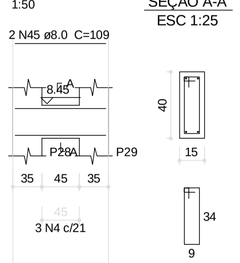

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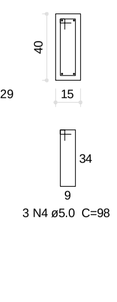

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PROJETO ESTRUTURAL

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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 1º PAVIMENTO- 7/10
LEGENDAS

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RT: ENG. CIVIL: ANTÔNIO AUGUSTO DE MACEDO – CREA: 81.746/DMG
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