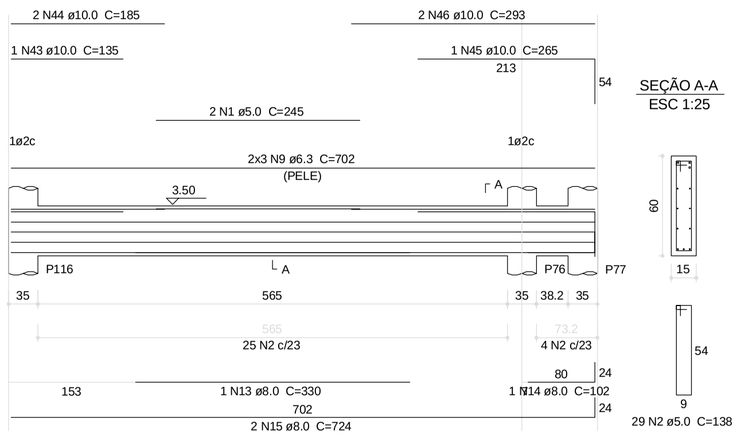
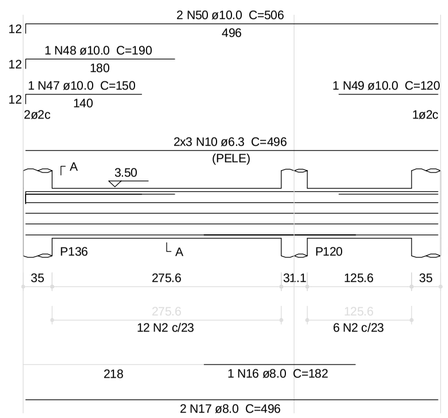
V240
1:50

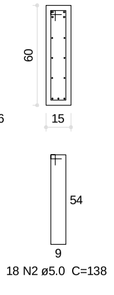


SEÇÃO A-A
ESC 1:25

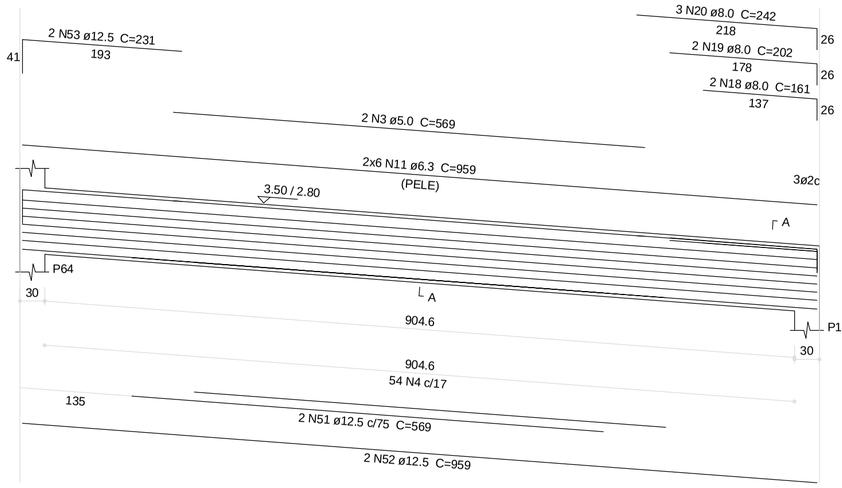
V242
1:50



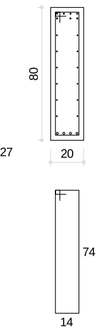
SEÇÃO A-A
ESC 1:25



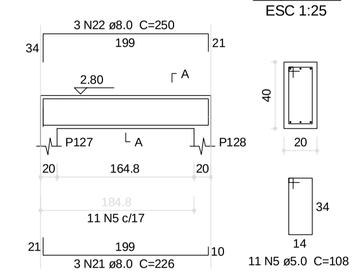
V243
1:50



SEÇÃO A-A
ESC 1:25



V245
1:50



SEÇÃO A-A
ESC 1:25

Relação do aço

V240	V242	V243
V245	V246	V247
V248	V249	V250
V251	V252	V253
V254	V255	V256
V257	V258	V259
V260	V266	

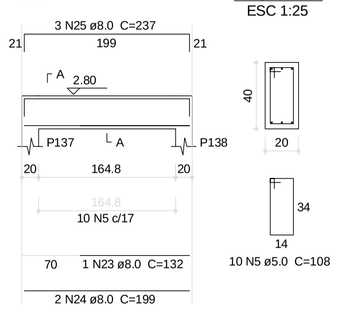
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	2	245	490
	2	5.0	47	138	6486
	3	5.0	2	569	1138
	4	5.0	238	188	44744
	5	5.0	143	108	15444
	6	5.0	2	459	918
	7	5.0	4	504	2016
	8	5.0	2	464	928
CA50	9	6.3	6	702	4212
	10	6.3	6	496	2976
	11	6.3	12	959	11508
	12	6.3	48	834	40032
	13	8.0	1	330	330
	14	8.0	1	102	102
	15	8.0	2	724	1448
	16	8.0	1	182	182
	17	8.0	2	496	992
	18	8.0	2	161	322
	19	8.0	2	202	404
	20	8.0	3	242	726
	21	8.0	3	226	678
	22	8.0	3	250	750
	23	8.0	1	132	132
	24	8.0	6	199	1194
	25	8.0	3	237	711
	26	8.0	9	193	1737
	27	8.0	3	225	675
	28	8.0	2	120	240
	29	8.0	4	384	1536
	30	8.0	6	422	2532
	31	8.0	1	230	230
	32	8.0	1	96	96
	33	8.0	5	228	1140
	34	8.0	2	161	322
	35	8.0	2	265	530
	36	8.0	3	261	783
	37	8.0	1	135	135
	38	8.0	6	225	1350
	39	8.0	1	115	115
	40	8.0	6	174	1044
	41	8.0	3	227	681
	42	8.0	6	101	606
	43	10.0	1	135	135
	44	10.0	2	185	370
	45	10.0	1	265	265
	46	10.0	2	293	586
	47	10.0	1	150	150
	48	10.0	1	190	190
	49	10.0	1	120	120
	50	10.0	2	506	1012
	51	12.5	2	569	1138
	52	12.5	2	959	1918
	53	12.5	2	231	462
	54	12.5	1	181	181
	55	12.5	3	244	732
	56	12.5	8	834	6672
	57	12.5	2	225	450
	58	12.5	2	245	490
	59	12.5	2	240	480
	60	12.5	2	185	370
	61	12.5	2	165	330
	62	12.5	2	261	522
	63	12.5	2	245	490
	64	12.5	2	220	440

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	587.3	158.1
	8.0	217.3	94.3
	10.0	28.3	19.2
	12.5	146.8	155.5
CA60	5.0	721.7	122.4
PESO TOTAL			
CA50	427.1		
CA60	122.4		

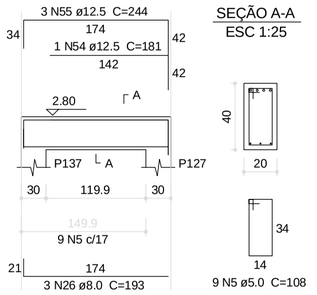
Vol. de concreto total (C-30) = 10.27 m³
Área de forma total = 122.51 m²

V246
1:50



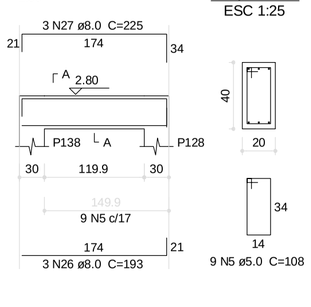
SEÇÃO A-A
ESC 1:25

V247
1:50



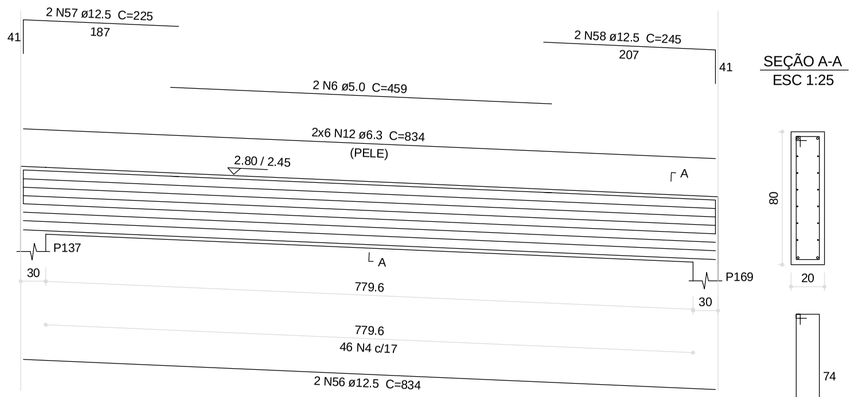
SEÇÃO A-A
ESC 1:25

V248
1:50

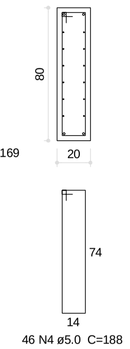


SEÇÃO A-A
ESC 1:25

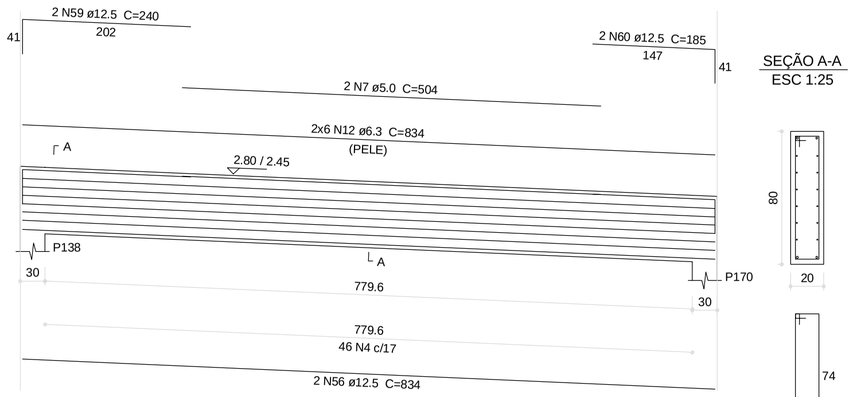
V249
1:50



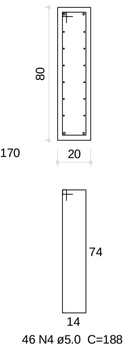
SEÇÃO A-A
ESC 1:25



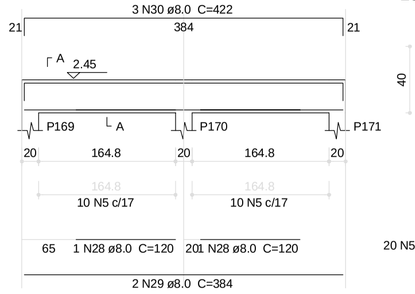
V250
1:50



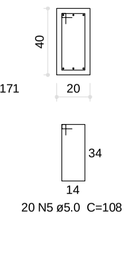
SEÇÃO A-A
ESC 1:25



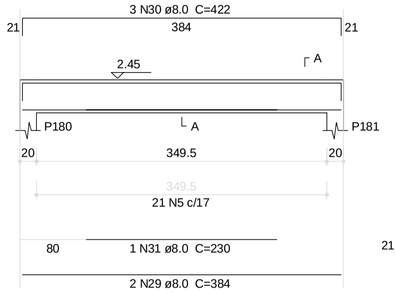
V251
1:50



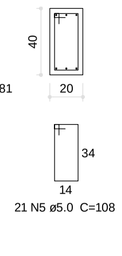
SEÇÃO A-A
ESC 1:25



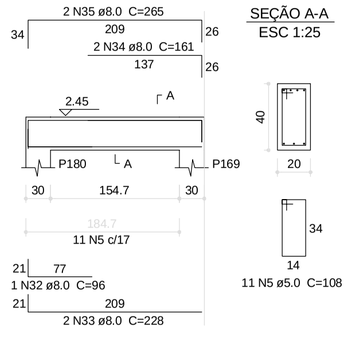
V252
1:50



SEÇÃO A-A
ESC 1:25

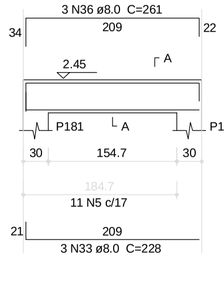


V253
1:50

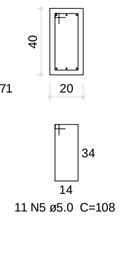


SEÇÃO A-A
ESC 1:25

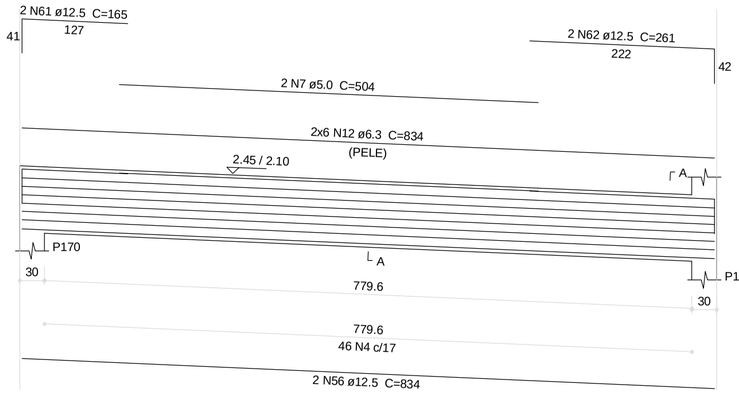
V254
1:50



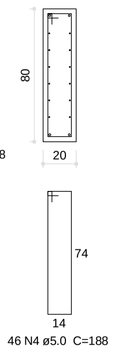
SEÇÃO A-A
ESC 1:25



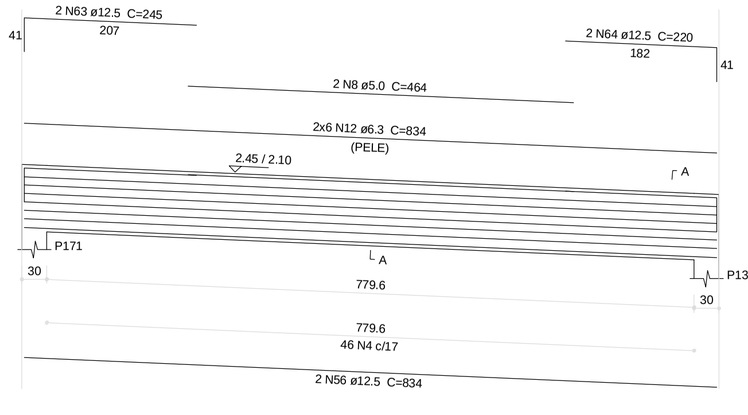
V255
1:50



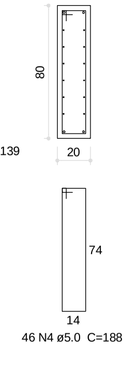
SEÇÃO A-A
ESC 1:25



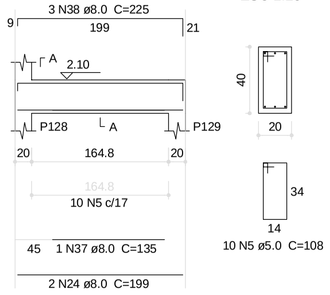
V256
1:50



SEÇÃO A-A
ESC 1:25

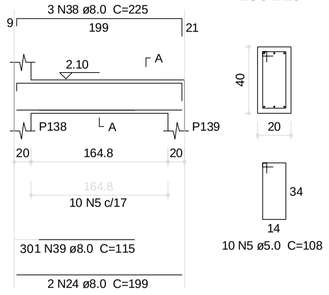


V257
1:50



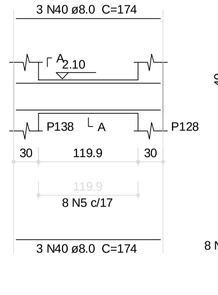
SEÇÃO A-A
ESC 1:25

V258
1:50

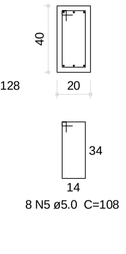


SEÇÃO A-A
ESC 1:25

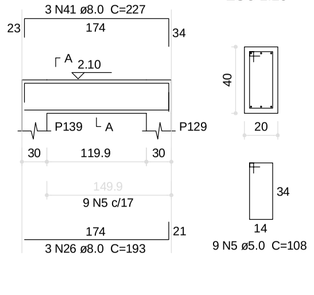
V259
1:50



SEÇÃO A-A
ESC 1:25

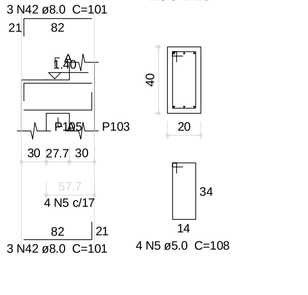


V260
1:50



SEÇÃO A-A
ESC 1:25

V266
1:50



SEÇÃO A-A
ESC 1:25

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 SUBSOLO-8/9

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

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