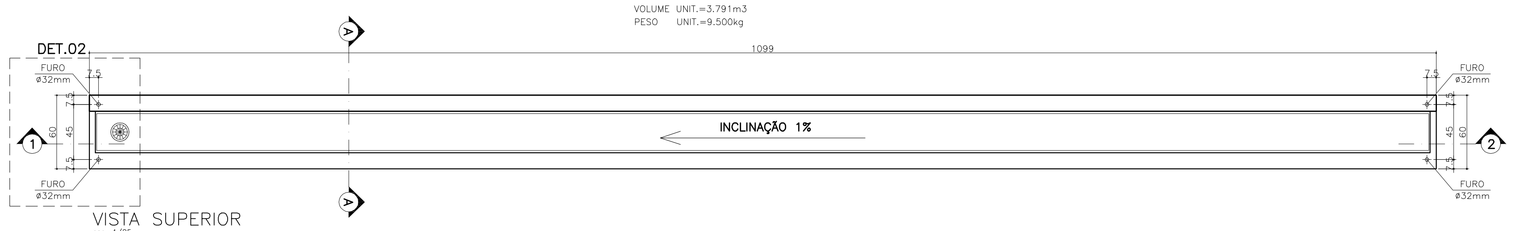
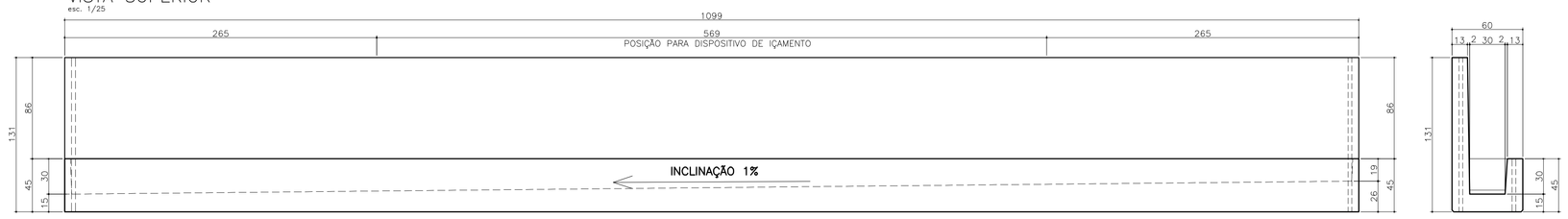
CALHA VC09 60x131 – (1x)

VOLUME UNIT.=3.791m3
PESO UNIT.=9.500kg

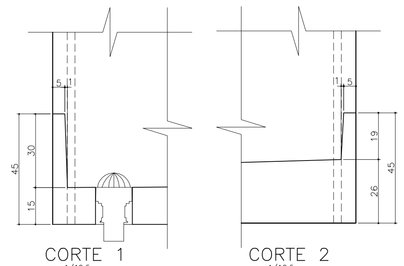


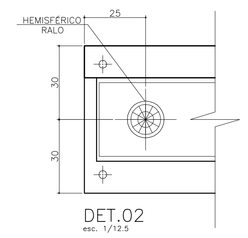
VISTA SUPERIOR
esc. 1/25



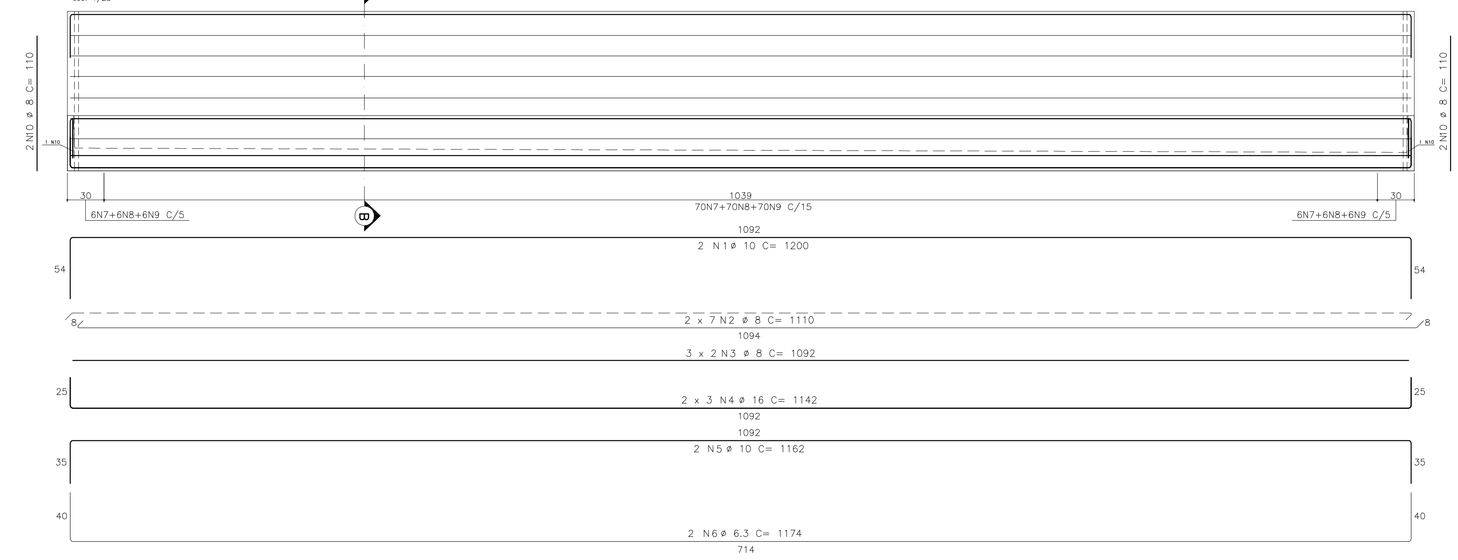
VISTA LATERAL
esc. 1/25

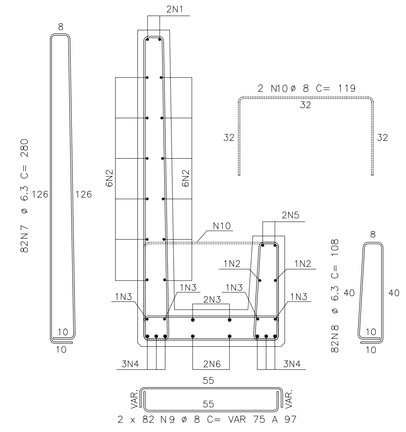
CORTE A.A
esc. 1/25





ARMAÇÃO
esc. 1/25





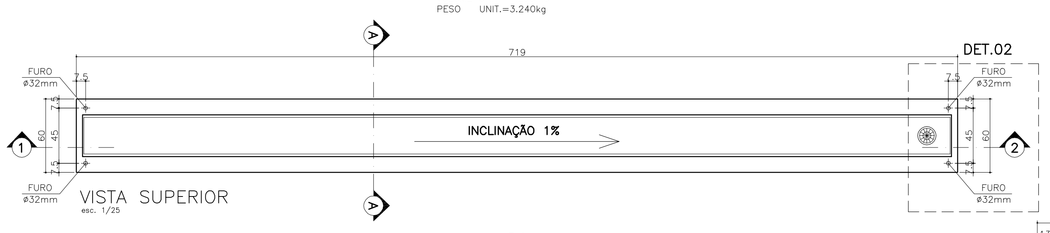
CORTE B.B
esc. 1/12.5

LISTA DE FERROS					
				COMPRIMENTOS	
Rep	POS.	ø	Q	UNIT.(cm)	TOTAL (m)
1	1	10	2	1200	24
1	2	8	14	1110	155.4
1	3	8	6	1092	65.52
1	4	16	6	1142	68.52
1	5	10	2	1162	23.24
1	6	6.3	2	1174	23.48
1	7	6.3	82	280	229.6
1	8	6.3	82	108	88.56
1	9	8	164	VAR.	141.04
2	10	8	4	110	4.4
1		8	2	119	2.38

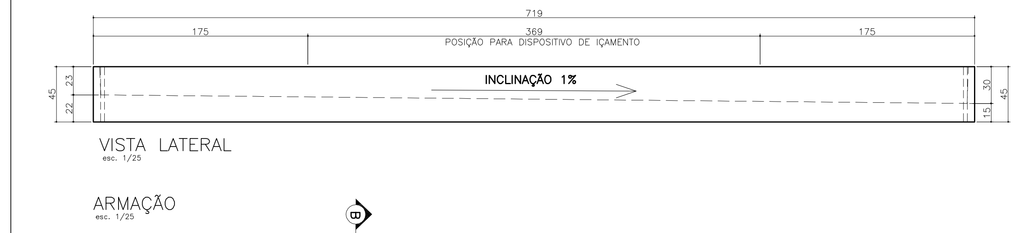
RESUMO AÇO CA-50A		
Ø	COMPRIMENTO (m)	PESO (Kg)
6.3	341.64	85
8	368.74	147
10	47.24	30
16	68.52	110
	TOTAL	372

CALHA VC07 – (1x)

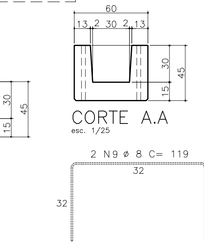
VOLUME UNIT.=1.295m3
PESO UNIT.=3.240kg



VISTA SUPERIOR
esc. 1/25

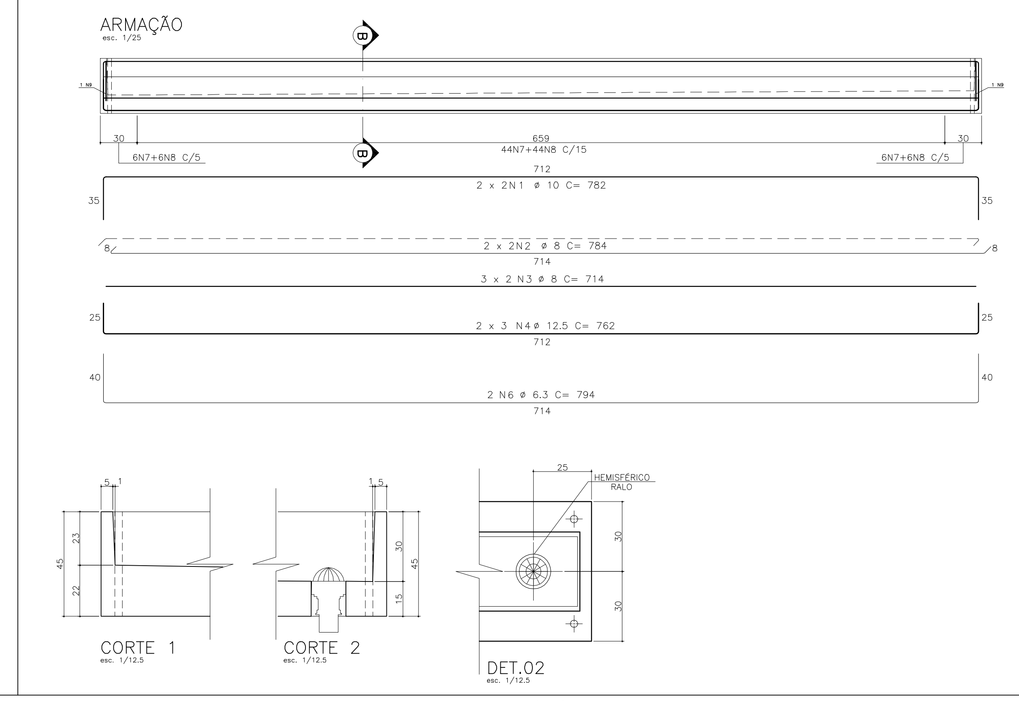


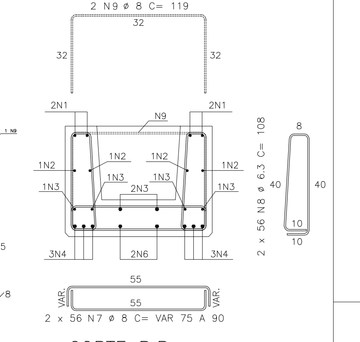
VISTA LATERAL
esc. 1/25



CORTE A.A
esc. 1/25

ARMAÇÃO
esc. 1/25





CORTE B.B
esc. 1/12.5

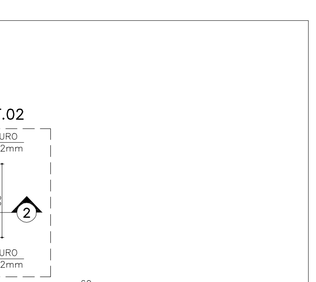
LISTA DE FERROS					
				COMPRIMENTOS	
Rep	POS.	ø	Q	UNIT.(cm)	TOTAL (m)
1	1	10	4	782	31.28
1	2	8	4	784	31.36
1	3	8	6	714	42.84
1	4	12.5	6	762	45.72
1	6	6.3	2	794	15.88
1	7	8	112	VAR.	92.4
1	8	6.3	112	108	120.96
1	9	8	2	119	2.38

RESUMO AÇO CA-50A		
Ø	COMPRIMENTO (m)	PESO (Kg)
6.3	136.84	34
8	168.98	66
10	31.28	20
12.5	45.72	46
	TOTAL	168

CALHA VC08 – (1x)

VOLUME UNIT.=4.295m3
PESO UNIT.=3.240kg

VISTA SUPERIOR
esc. 1/25



OBS: MEDIDAS EM MILÍMETROS

VISTA LATERAL
esc. 1/25

CORTE A.A
esc. 1/25

ARMAÇÃO
esc. 1/25

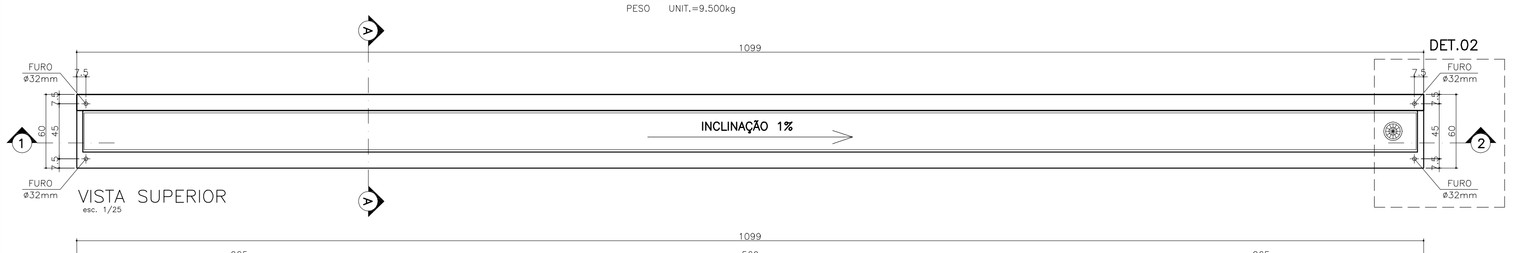
CORTE B.B
esc. 1/12.5

LISTA DE FERROS					
				COMPRIMENTOS	
Rep	POS.	ø	Q	UNIT.(cm)	TOTAL (m)
1	1	10	4	782	31.28
1	2	8	4	784	31.36
1	3	8	6	714	42.84
1	4	12.5	6	762	45.72
1	6	6.3	2	794	15.88
1	7	8	112	VAR.	92.4
1	8	6.3	112	108	120.96
1	9	8	2	119	2.38

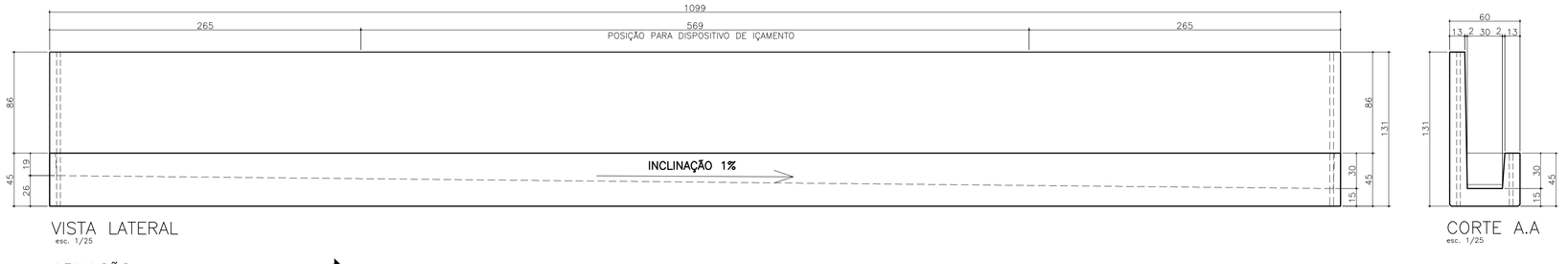
RESUMO AÇO CA-50A		
Ø	COMPRIMENTO (m)	PESO (Kg)
6.3	136.84	34
8	168.98	66
10	31.28	20
12.5	45.72	46
	TOTAL	168

CALHA VC12 60x131 – (1x)

VOLUME UNIT.=3.791m3
PESO UNIT.=9.500kg

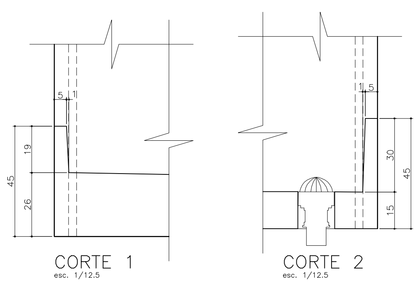


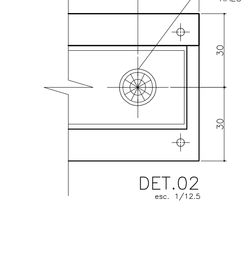
VISTA SUPERIOR
esc. 1/25



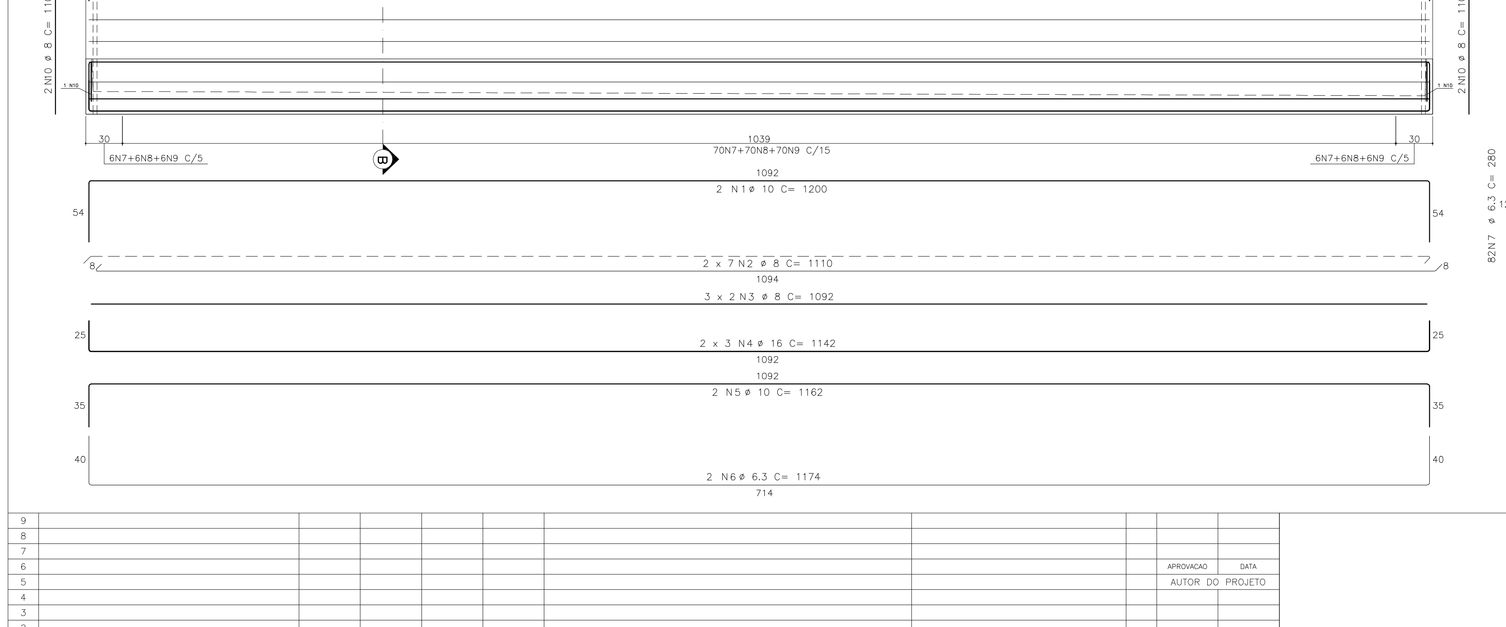
VISTA LATERAL
esc. 1/25

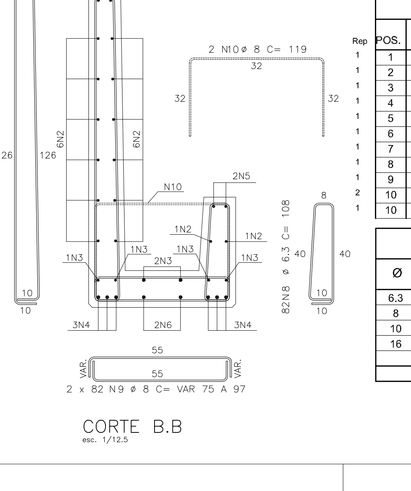
CORTE A.A
esc. 1/25





ARMAÇÃO
esc. 1/25





CORTE B.B
esc. 1/12.5

LISTA DE FERROS					
				COMPRIMENTOS	
Rep	POS.	ø	Q	UNIT.(cm)	TOTAL (m)
1	1	10	2	1200	24
1	2	8	14	1110	155.4
1	3	8	6	1092	65.52
1	4	16	6	1142	68.52
1	5	10	2	1162	23.24
1	6	6.3	2	1174	23.48
1	7	6.3	82	280	229.6
1	8	6.3	82	108	88.56
1	9	8	164	VAR.	141.04
2	10	8	4	110	4.4
1		8	2	119	2.38

RESUMO AÇO CA-50A		
Ø	COMPRIMENTO (m)	PESO (Kg)
6.3	341.64	85
8	368.74	147
10	47.24	30
16	68.52	110
	TOTAL	372

REFERÊNCIA DE NÍVEL: A COTA DE IMPLANTAÇÃO +99,50 EQUIVALE À COTA +100,00 DO PROJETO PADRÃO

7 SALAS DE AULA E LABORATÓRIOS
PADRÃO JARDIM DAS ROSAS

12.01.068
Nº241

Nº	MODIFICACOES	APROVACAO	DATA	APROVACAO	DATA	OBSERVACOES	DESENHOS DE REFERENCIA	Nº	APROVACAO	DATA
		AUTOR DO PROJETO		FDE					FDE	
9										
8										
7										
6									APROVACAO	DATA
5									AUTOR DO PROJETO	
4										
3										
2										
1										

IMPLANTADO POR:
sbr11 engenharia e consultoria
Avenida Angélica, n. 1514, cj. 1101 SANTA CECÍLIA - SP 01228-200
São Paulo SP Brasil tel 11 3662 3344 tel - fax 11 3661 9300
CNES 17516 | CNPJ 10.772.670/0001-74
engenheiro responsável NELSON JOSÉ DO AMARAL NETO
CREA 0601296/SP

PROJETO ORIGINAL:
STENG projetos estruturais
Rua Pe. Luis de Moura Brito, 78 - 1º andar Cjto 13
São Paulo - SP - Brasil - CEP 04042-030
Fone/Fax: (11) 5575-8000
Rua Lisboa, 93
Rua Dr. Renato Paes de Barros, 33 - 4º andar Cjto 13
Itaim Bibi - São Paulo - SP - Brasil - CEP 04530-000
Fone/Fax: (11) 3167-5599
Alexis Salem Neto
CREA 106010/D

FUNDAÇÃO PARA O DESENVOLVIMENTO DA EDUCAÇÃO – FDE

ESCOLA – NOME/LOCAL: TERRENO STA ANGELINA / JARDIM IPANEMA– SÃO CARLOS	CÓDIGO: 0 6 9 4 1 3 8
INTERVENÇÃO: OBRA NOVA COM 8 SALAS DE AULA	Nº LOTE: 01
ETAPA/ÁREA TECNICA: PROJETO EXECUTIVO DE ESTRUTURAS	TIPO PROJETO: CONVENCIONAL / DATA: SEP/2015 / ETAPA/ÁREA TECNICA: PE–EST
CONTEÚDO: PLANTA DE MONTAGEM COBERTURA CALHAS VC07,08,09 e 12	ESCALA: INDICADA / FOLHA: 42/58 / REVISÃO: 00

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