LEGENDA:

NOTAS

ARTICULAÇÃO:

REVISÕES

Nº	NATUREZA DA REVISÃO	DATA	APROVO
00			
01			
02			
03			
04			
05			

CLIENTE:

CODEVASF

OBRA:
COMPANHIA DE DESENVOLVIMENTO DOS VALES DO SÃO FRANCISCO E DO PARNAÍBA - CODEVASF
MINISTÉRIO DA INTEGRAÇÃO NACIONAL - MI

ASSUNTO:
PROJETO BÁSICO DO SISTEMA DE ESGOTAMENTO SANITÁRIO DE UMBURANAS - BA
PROJETO ESTRUTURAL - DAFA
VIGAS - FORMAS - COMPLEMENTO

ELABORADO POR:

KL ENGENHARIA

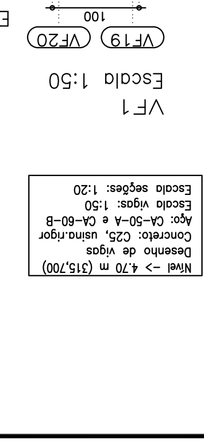
ENG. JOSÉ MENESCAL NETO	CREA 2966/D - CE	DATA: MAR/2009
ENG.:	CREA	DESENHO: NDIRADA
ENG.:	CREA	ARQUIVO: 09JUMS-PIEST-DAFA-R0

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reto (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
VF1	1	ø8	2	10	94	10	114	228	0.9	
	2	ø5	2	6	94	6	106	212		0.3
	3	ø5	4				96	384		0.6
VF2 ⇒ VF3 ⇒ VF12 VF13	1	ø8	2	15	79	15	109	218	0.9	
	2	ø8	1	10	79	10	99	99	0.4	
	3	ø10	1	12	79	12	103	103	0.6	
	4	ø8	2	10	79	14	103	206	0.8	
	5	ø5	3				140	420		0.7
VF4 ⇒ VF6 ⇒ VF8 ⇒ VF10	1	ø8	2	10	229	10	249	498	2.0	
	2	ø6.3	1		195		195	195	0.5	
	3	ø5	2	7	229	7	243	486		0.8
	4	ø8	4	10	55		65	260	1.0	
	5	ø5	8				130	1040		1.6
VF5 ⇒ VF7 ⇒ VF9 ⇒ VF11	1	ø8	2	10	229	10	249	498	2.0	
	2	ø6.3	1		195		195	195	0.5	
	3	ø5	2	7	229	7	243	486		0.8
	4	ø8	4	10	55		65	260	1.0	
	5	ø5	8				130	1040		1.6
VF14 ⇒ VF25	1	ø8	2	14	828	14	856	1712	6.7	
	2	ø8	1		670		670	670	2.6	
	3	ø8	4	10	105		115	460	1.8	
	4	ø10	2		298	12	310	620	3.9	
	5	ø8	2	10	295		305	610	2.4	
	6	ø10	1		180		180	180		1.1
	7	ø5	2		280		280	560		0.9
	8	ø5	32				134	4288		6.7
VF15 ⇒ VF16 ⇒ VF17 VF18 ⇒ VF21 ⇒ VF22 VF23 ⇒ VF24	1	ø8	2	10	64	10	84	168	0.7	
	2	ø8.3	1		64		64	64	0.2	
	3	ø8	3	10	64	10	84	252		1.0
	4	ø5	2				130	260		0.4
VF19 ⇒ VF20	1	ø6.3	2	8	114	8	130	260	0.6	
	2	ø8	2	10	114	10	134	268		1.1
	3	ø5	6				96	576		0.9

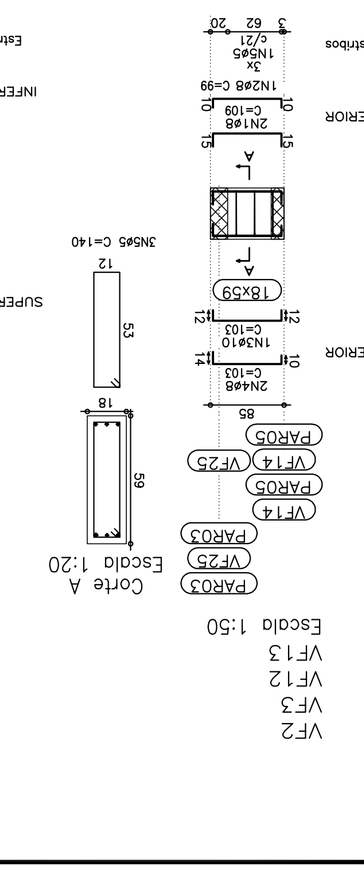
Total+10%:	1.9	1.0
(x2):	3.8	2.0
ø5:	0.0	47.0
ø6.3:	7.8	0.0
ø8:	84.0	0.0
ø10:	13.8	0.0
total:	105.6	47.0
Total+10%:	3.5	0.8
(x4):	12.0	3.2
Total+10%:	3.9	2.6
(x4):	15.6	10.4
Total+10%:	3.9	2.6
(x4):	15.6	10.4
Total+10%:	20.4	8.4
(x2):	40.8	16.8
Total+10%:	2.1	0.4
(x8):	16.8	3.2
Total+10%:	1.0	0.9
(x2):	2.0	

Nível -> 4,70 m (315,700)
Desenho de vigas
Concreto: C25, usina,ligor
Aço: CA-50-A e CA-60-B
Escala vigas: 1:50
Escala segas: 1:20

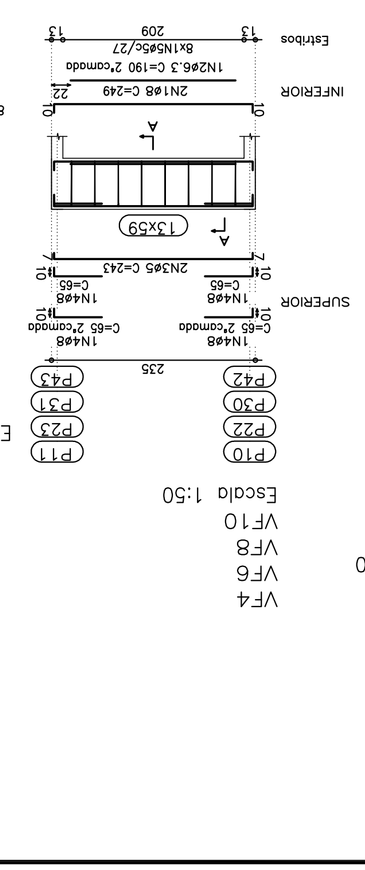
VF1
Escala 1:50



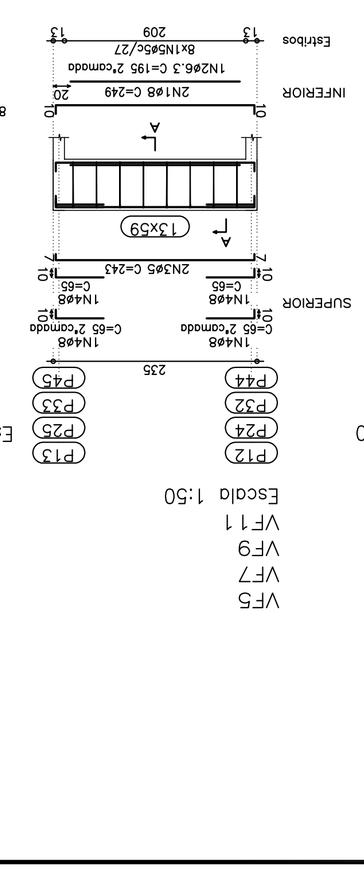
VF2
VF3
VF13
VF12
Escala 1:50



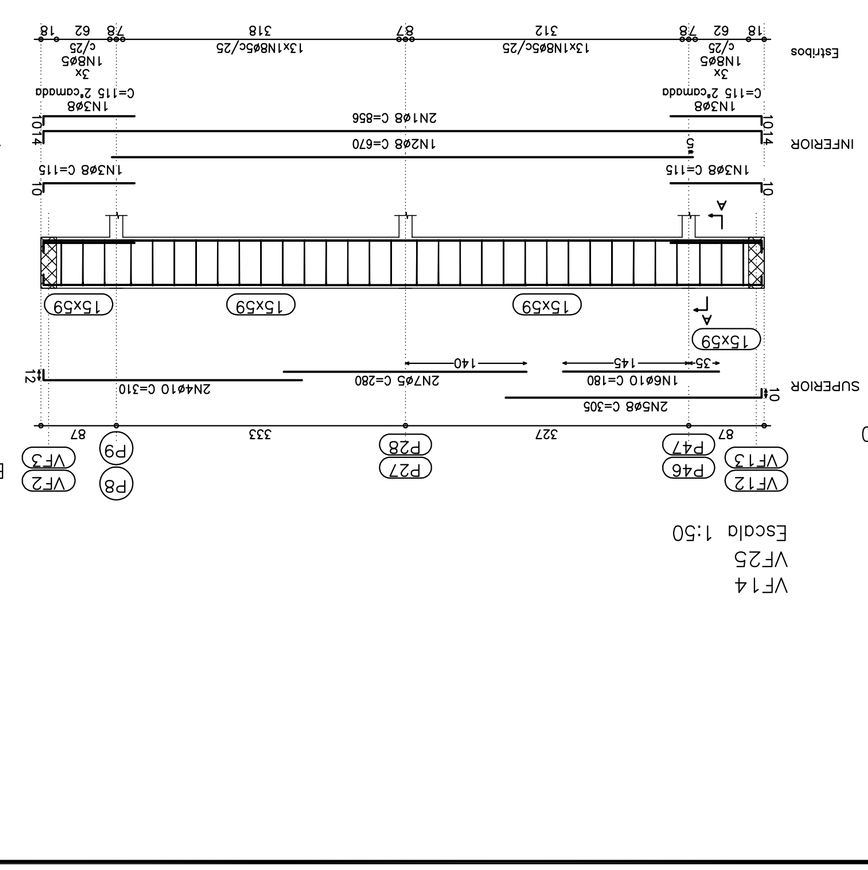
VF4
VF6
VF8
VF10
Escala 1:50



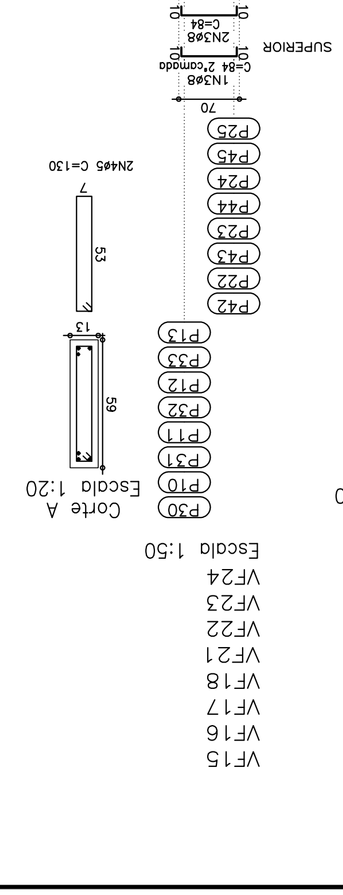
VF5
VF7
VF9
VF11
Escala 1:50



VF14
VF25
Escala 1:50



VF15
VF16
VF17
VF18
VF21
VF22
VF23
VF24
Escala 1:50



P30
P10
P31
P11
P32
P12
P33
P13
P42
P22
P43
P23
P44
P24
P45
P25
70
15
15
59
59
53
53
7
2N4@5 C=130
Corte A
Escala 1:20