

TUBOS TIPO E-3								
Di	N	Ø	ESP.	Q	COMPR.	RESUMO		
80	1	6,0	20	30	95	Ø	C.TOTAL	PESO
	2	8,0	6	17	315	4,6	53,7	8,28
	3	8,0	6	17	383	6,0	28,5	5,33
	4	4,6	18	19	335	8,0	118,7	47,47
SOMA (Kg)						52,08		
100	1	6,0	16	48	95	Ø	C.TOTAL	PESO
	2	8,0	5	20	375	4,6	86,4	11,23
	3	8,0	5	20	477	6,0	45,6	10,12
	4	4,6	24	18	480	8,0	170,4	68,16
SOMA (Kg)						89,51		
120	1	8,0	20	46	95	Ø	C.TOTAL	PESO
	2	10,0	7	14	450	4,6	122,4	15,91
	3	10,0	7	14	575	8,0	43,7	17,48
	4	4,6	18	29	422	10,0	143,5	88,97
SOMA (Kg)						122,36		

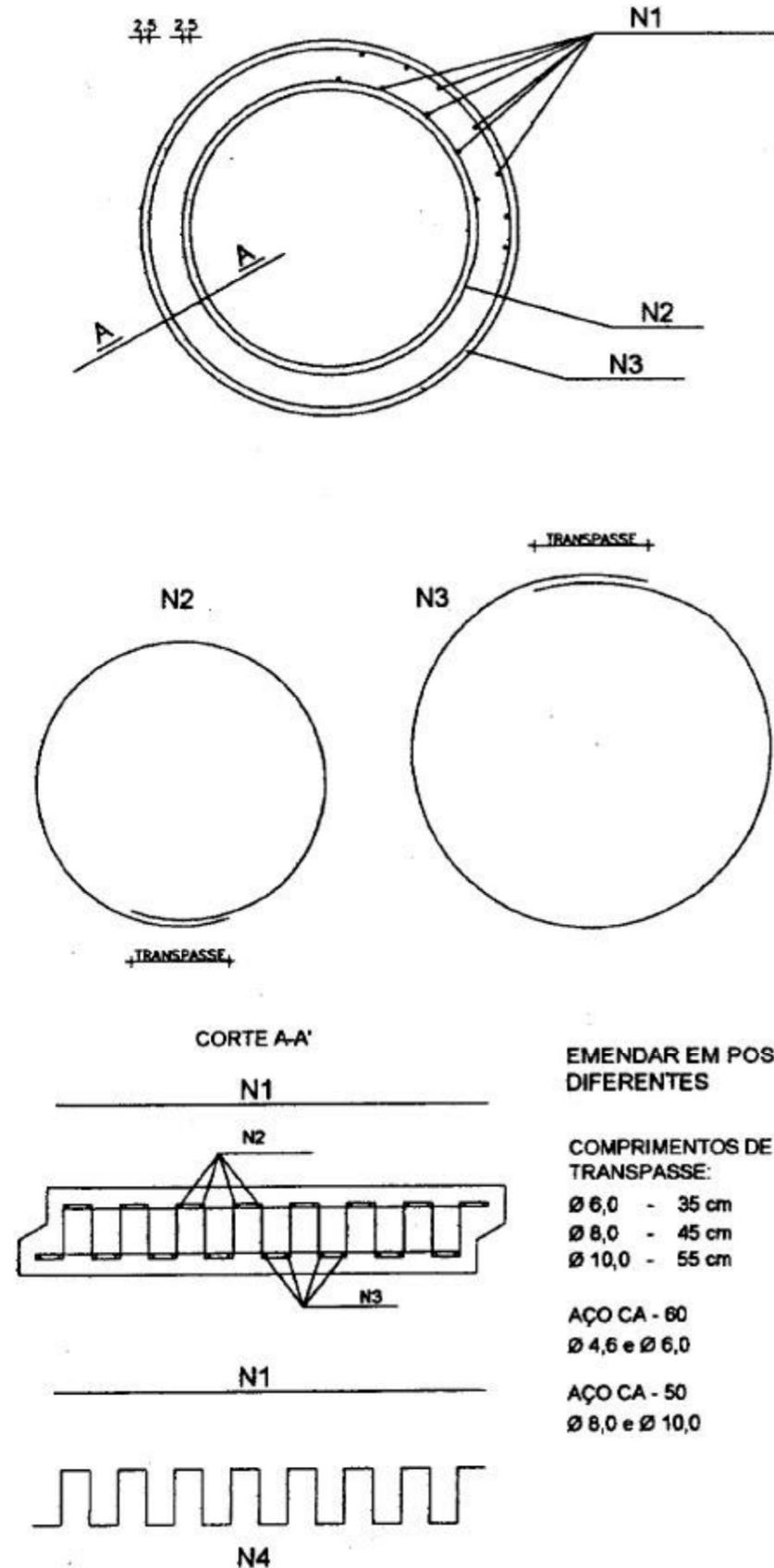
TUBOS TIPO E-4								
Di	N	Ø	ESP.	Q	COMPR.	RESUMO		
80	1	6,0	17	37	95	Ø	C.TOTAL	PESO
	2	8,0	5	20	315	4,6	84,0	10,92
	3	8,0	5	20	395	6,0	35,2	7,80
	4	4,6	18	20	420	8,0	142,0	56,80
SOMA (Kg)						75,52		
100	1	8,0	20	39	95	Ø	C.TOTAL	PESO
	2	10,0	7	14	385	4,6	121,5	15,80
	3	10,0	7	14	505	8,0	37,1	14,82
	4	4,6	15	30	405	10,0	124,6	77,25
SOMA (Kg)						107,87		
120	1	8,0	20	47	95	Ø	C.TOTAL	PESO
	2	10,0	6	17	450	4,6	166,5	21,85
	3	10,0	6	17	500	8,0	44,7	17,86
	4	4,6	18	30	555	10,0	178,5	110,67
SOMA (Kg)						150,18		

TUBOS TIPO E-5								
Di	N	Ø	ESP.	Q	COMPR.	RESUMO		
80	1	8,0	20	32	95	Ø	C.TOTAL	PESO
	2	10,0	7	14	325	4,6	108,5	14,11
	3	10,0	7	14	420	8,0	30,4	12,16
	4	4,6	12	31	350	10,0	104,3	64,67
SOMA (Kg)						90,94		
100	1	8,0	20	40	95	Ø	C.TOTAL	PESO
	2	10,0	6	17	385	6,0	99,8	22,15
	3	10,0	6	17	525	8,0	38,0	15,20
	4	4,6	15	31	525	10,0	154,7	95,92
SOMA (Kg)						133,27		
120	1	8,0	15	65	95	Ø	C.TOTAL	PESO
	2	10,0	5	20	150	4,6	216,0	28,08
	3	10,0	5	20	625	8,0	61,8	24,70
	4	4,6	19	30	720	10,0	215,0	133,3
SOMA (Kg)						186,08		

TUBOS TIPO CA-3								
Di	N	Ø	ESP.	Q	COMPR.	RESUMO		
80	1	4,6	20	28	95	Ø	C.TOTAL	PESO
	2	6,0	10	10	305	4,6	26,6	3,46
	3	6,0	10	10	335	6,0	64,0	14,21
SOMA (Kg)						17,57		
100	1	4,6	20	35	95	Ø	C.TOTAL	PESO
	2	6,0	9	11	365	4,6	39,9	5,19
	3	6,0	9	11	480	6,0	118,3	26,26
SOMA (Kg)						31,45		
120	1	4,6	20	42	95	Ø	C.TOTAL	PESO
	2	6,0	7,5	13	430	4,6	33,3	4,33
	3	6,0	7,5	13	410	6,0	85,3	18,93
SOMA (Kg)						52,08		

TUBOS TIPO E-1								
Di	N	Ø	ESP.	Q	COMPR.	RESUMO		
80	1	4,6	20	29	95	Ø	C.TOTAL	PESO
	2	6,0	7	14	305	4,6	27,6	3,58
	3	6,0	7	14	347	6,0	91,3	20,26
SOMA (Kg)						23,84		
100	1	4,6	17,5	41	95	Ø	C.TOTAL	PESO
	2	6,0	6	17	365	4,6	39,0	5,06
	3	6,0	6	17	430	6,0	135,2	30,00
SOMA (Kg)						35,06		
120	1	4,6	15	58	95	Ø	C.TOTAL	PESO
	2	6,0	5	20	430	4,6	55,1	7,16
	3	6,0	5	20	505	6,0	187,0	41,51
SOMA (Kg)						48,67		

TUBOS TIPO E-2								
Di	N	Ø	ESP.	Q	COMPR.	RESUMO		
80	1	6,0	20	30	95	Ø	C.TOTAL	PESO
	2	8,0	7,5	13	315	4,6	41,0	5,32
	3	8,0	7,5	13	370	6,0	28,5	6,33
	4	4,6	20	18	256	8,0	89,1	35,62
SOMA (Kg)						47,27		
100	1	6,0	20	38	95	Ø	C.TOTAL	PESO
	2	8,0	6,5	15	375	4,6	57,8	5,32
	3	8,0	6,5	15	458	6,0	36,1	6,33
	4	4,6	24	17	340	8,0	125,0	50,00
SOMA (Kg)						65,54		
120	1	6,0	18	27	95	Ø	C.TOTAL	PESO
	2	8,0	5,5	18	440	6,0	25,7	5,70
	3	8,0	5,5	18	540	8,0	176,4	70,56
SOMA (Kg)						76,26		



EMENDAR EM POSIÇÕES DIFERENTES

COMPRIMENTOS DE TRANSASSE:
 Ø 6,0 - 35 cm
 Ø 8,0 - 45 cm
 Ø 10,0 - 55 cm

AÇO CA - 60
 Ø 4,6 e Ø 6,0
 AÇO CA - 50
 Ø 8,0 e Ø 10,0

0	Emissão inicial - Minuta do Projeto Executivo	19/10/06	NK	CM
Revisão	Descrição	Data	Aprov.	Aut.
Aprovação	ECOPLAN CEHAB	Autorização	ECOPLAN CEHAB	
Elaboração:	Verificação:	Revisão	Referência Ecoplan:	
Luciano Santarém	Jorge M. Basler	0	-	

	S.D.U.	COMPANHIA ESTADUAL DE HABITAÇÃO E OBRAS	CEHAB
	ESCALAS:	Ferrovia: Transnordestina Trecho: Parnamirim - Araripina (112,6 km) Lote: 3	
	DATA:	PROJETO DE DRENAGEM	FOLHA/TOTAL
	OUT/06	Armadura para Bueiros Tubulares	D-73