

TRAMO 1

ESPESOR 0,0095
DIAMETRO 0,30
A 1,00
B 0,20
C 0,469

PERFIL N°	DISTANCIA A ORIGEN	DISTANCIA PARCIAL	DIAMETRO TUBO (MM)	COTA ROJA REAL	SUPER. PERFIL	VOL. PAR. EXCAVAC.	VOL. ACU. EXCAVAC.	VOL. PAR. CAMA DE ARENA	VOL. ACU. CAMA DE ARENA	VOL. PAR. RELL. ARENA	VOL. ACU. RELL. ARENA	VOL. ACU. RELL. ORD	VOL. ACU. TRAN.
1	0,000	0,000	319,0	1,840	3,427			0,000		0,000		0,000	
2	20,000	20,000	319,0	2,040	3,913	73,397	73,397	4,267	4,267	10,499	10,499	58,632	14,765
3	40,000	20,000	319,0	1,900	3,570	74,825	148,223	4,267	8,533	10,499	20,997	118,692	29,531
4	60,000	20,000	319,0	2,010	3,838	74,080	222,303	4,267	12,800	10,499	31,496	178,007	44,296
5	80,000	20,000	319,0	1,790	3,310	71,481	293,784	4,267	17,067	10,499	41,994	234,723	59,061
6	100,000	20,000	319,0	1,830	3,404	67,137	360,920	4,267	21,333	10,499	52,493	287,094	73,826
7	120,000	20,000	319,0	1,870	3,498	69,019	429,940	4,267	25,600	10,499	62,992	341,348	88,592
8	140,000	20,000	319,0	1,910	3,594	70,923	500,863	4,267	29,867	10,499	73,490	397,506	103,357
9	160,000	20,000	319,0	1,870	3,498	70,923	571,786	4,267	34,133	10,499	83,989	453,664	118,122
10	170,000	10,000	319,0	1,860	3,475	34,864	606,651	2,133	36,267	5,249	89,238	481,146	125,505
11	190,000	20,000	319,0	1,950	3,691	71,654	678,304	4,267	40,533	10,499	99,737	538,034	140,270
12	210,000	20,000	319,0	1,880	3,522	72,130	750,434	4,267	44,800	10,499	110,235	595,398	155,035
13	230,000	20,000	319,0	2,030	3,888	74,098	824,532	4,267	49,067	10,499	120,734	654,731	169,801
14	250,000	20,000	319,0	1,950	3,691	75,785	900,316	4,267	53,333	10,499	131,233	715,750	184,566
15	270,000	20,000	319,0	1,860	3,475	71,654	971,970	4,267	57,600	10,499	141,731	772,639	199,331
16	290,000	20,000	319,0	2,480	5,074	85,487	1.057,457	4,267	61,867	10,499	152,230	843,360	214,097
17	310,000	20,000	319,0	2,980	6,551	116,249	1.173,706	4,267	66,133	10,499	162,728	944,844	228,862
18	330,000	20,000	319,0	1,880	3,522	100,729	1.274,435	4,267	70,400	10,499	173,227	1.030,808	243,627

LONGITUD DE TUBERÍA 330,000 m
VOLUMEN EXCAVACIÓN 1.274,435 m³
VOLUMEN RELLENO Y CAMA DE ARENA 243,627 m³
VOLUMEN RELLENO ORDINARIO 1.030,808 m³
VOLUMEN TRANSPORTE A VERTEDERO 243,627 m³

TRAMO 2

ESPESOR 0,0095
 DIAMETRO 0,30
 A 0,80
 B 0,669
 C 0,25

PERFIL N°	DISTANCIA A ORIGEN	DISTANCIA PARCIAL	DIAMETRO TUBO (MM)	COTA ROJA REAL	SUPER. PERFIL	VOL. PAR. EXCAVAC.	VOL. ACU. EXCAVAC.	VOL. PAR. ARENA	VOL. ACU. ARENA	VOL. PAR. HORMIGON	VOL. ACU. HORMIGON	VOL. PAR. RELL. SEL.	VOL. ACU. RELL. SEL.
18	330,000	0,000	319	1,880	1,664			0,000		0,000		0,000	
19	340,000	10,000	319	1,880	1,664	16,640	16,640	4,553	4,553	2,000	2,000	10,087	10,087
20	360,000	20,000	319	2,250	1,960	36,240	52,880	9,106	13,658	4,000	6,000	23,134	33,222
21	380,000	20,000	319	1,930	1,704	36,640	89,520	9,106	22,764	4,000	10,000	23,534	56,756
22	400,000	20,000	319	1,990	1,752	34,560	124,080	9,106	31,869	4,000	14,000	21,454	78,211
23	420,000	20,000	319	2,510	2,168	39,200	163,280	9,106	40,975	4,000	18,000	26,094	104,305
24	440,000	20,000	319	2,810	2,408	45,760	209,040	9,106	50,080	4,000	22,000	32,654	136,960
25	460,000	20,000	319	2,210	1,928	43,360	252,400	9,106	59,186	4,000	26,000	30,254	167,214
26	480,000	20,000	319	1,940	1,712	36,400	288,800	9,106	68,292	4,000	30,000	23,294	190,508
27	500,000	20,000	319	1,930	1,704	34,160	322,960	9,106	77,397	4,000	34,000	21,054	211,563
28	510,000	10,000	319	1,860	1,648	16,760	339,720	4,553	81,950	2,000	36,000	10,207	221,770
29	530,000	20,000	319	2,030	1,784	34,320	374,040	9,106	91,055	4,000	40,000	21,214	242,985
30	550,000	20,000	319	1,900	1,680	34,640	408,680	9,106	100,161	4,000	44,000	21,534	264,519
31	570,000	20,000	319	1,850	1,640	33,200	441,880	9,106	109,266	4,000	48,000	20,094	284,614
32	590,000	20,000	319	1,950	1,720	33,600	475,480	9,106	118,372	4,000	52,000	20,494	305,108
33	610,000	20,000	319	1,870	1,656	33,760	509,240	9,106	127,478	4,000	56,000	20,654	325,762
34	630,000	20,000	319	1,810	1,608	32,640	541,880	9,106	136,583	4,000	60,000	19,534	345,297
35	650,000	20,000	319	2,020	1,776	33,840	575,720	9,106	145,689	4,000	64,000	20,734	366,031
36	670,000	20,000	319	1,860	1,648	34,240	609,960	9,106	154,794	4,000	68,000	21,134	387,166
37	680,000	10,000	319	1,890	1,672	16,600	626,560	4,553	159,347	2,000	70,000	10,047	397,213
38	700,000	20,000	319	2,070	1,816	34,880	661,440	9,106	168,452	4,000	74,000	21,774	418,988
39	720,000	20,000	319	1,910	1,688	35,040	696,480	9,106	177,558	4,000	78,000	21,934	440,922
40	740,000	20,000	319	2,530	2,184	38,720	735,200	9,106	186,664	4,000	82,000	25,614	466,536
41	760,000	20,000	319	1,830	1,624	38,080	773,280	9,106	195,769	4,000	86,000	24,974	491,511
42	780,000	20,000	319	1,760	1,568	31,920	805,200	9,106	204,875	4,000	90,000	18,814	510,325
43	800,000	20,000	319	1,850	1,640	32,080	837,280	9,106	213,980	4,000	94,000	18,974	529,300
44	820,000	20,000	319	1,790	1,592	32,320	869,600	9,106	223,086	4,000	98,000	19,214	548,514
45	840,000	20,000	319	1,920	1,696	32,880	902,480	9,106	232,191	4,000	102,000	19,774	568,289
46	850,000	10,000	319	2,010	1,768	17,320	919,800	4,553	236,744	2,000	104,000	10,767	579,056
47	870,000	20,000	319	2,080	1,824	35,920	955,720	9,106	245,850	4,000	108,000	22,814	601,870
48	890,000	20,000	319	1,920	1,696	35,200	990,920	9,106	254,955	4,000	112,000	22,094	623,965
49	910,000	20,000	319	1,760	1,568	32,640	1.023,560	9,106	264,061	4,000	116,000	19,534	643,499
50	930,000	20,000	319	1,820	1,616	31,840	1.055,400	9,106	273,166	4,000	120,000	18,734	662,234
51	950,000	20,000	319	1,840	1,632	32,480	1.087,880	9,106	282,272	4,000	124,000	19,374	681,608
52	970,000	20,000	319	1,840	1,632	32,640	1.120,520	9,106	291,377	4,000	128,000	19,534	701,143
53	990,000	20,000	319	1,840	1,632	32,640	1.153,160	9,106	300,483	4,000	132,000	19,534	720,677
54	1010,000	20,000	319	1,950	1,720	33,520	1.186,680	9,106	309,588	4,000	136,000	20,414	741,092

TRAMO 2

ESPESOR	0,0095
DIAMETRO	0,30
A	0,80
B	0,669
C	0,25

PERFIL N°	DISTANCIA A ORIGEN	DISTANCIA PARCIAL	DIAMETRO TUBO (MM)	COTA ROJA REAL	SUPER. PERFIL	VOL. PAR. EXCAVAC.	VOL. ACU. EXCAVAC.	VOL. PAR. ARENA	VOL. ACU. ARENA	VOL. PAR. HORMIGON	VOL. ACU. HORMIGON	VOL. PAR. RELL. SEL.	VOL. ACU. RELL. SEL.
55	1020,000	10,000	319	1,990	1,752	17,360	1.204,040	4,553	314,141	2,000	138,000	10,807	751,899
56	1040,000	20,000	319	1,870	1,656	34,080	1.238,120	9,106	323,247	4,000	142,000	20,974	772,873
57	1060,000	20,000	319	1,840	1,632	32,880	1.271,000	9,106	332,352	4,000	146,000	19,774	792,648
58	1080,000	20,000	319	1,840	1,632	32,640	1.303,640	9,106	341,458	4,000	150,000	19,534	812,182
59	1100,000	20,000	319	1,860	1,648	32,800	1.336,440	9,106	350,563	4,000	154,000	19,694	831,877
60	1120,000	20,000	319	1,830	1,624	32,720	1.369,160	9,106	359,669	4,000	158,000	19,614	851,491
61	1126,280	6,280	319	1,840	1,632	10,224	1.379,384	2,859	362,528	1,256	159,256	6,109	857,600

LONGITUD DE TUBERÍA	796,280	m
VOLUMEN EXCAVACIÓN	1.379,384	m ³
VOLUMEN DE RELLENO Y CAMA DE ARENA	362,528	m ³
VOLUMEN RELLENO SELECCIONADO	857,600	m ³
VOLUMEN RELLENO HORMIGON	159,256	m ³
VOLUMEN TRANSPORTE A VERTEDERO	1.379,384	m ³