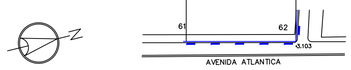
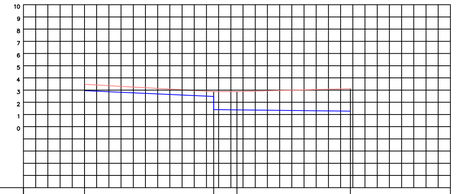


COTA DO TERRENO	3.073	3.153	
COTA DA GERATRIZ INFERIOR DA GALERIA	2.673	2.565	
PROFUNDIDADE(m)	0.400	0.588	
COMPRIMENTO		90.0	
DECLIVIDADE(m/m)		0.0012	
NUMERO DE REFERENCIA	61	62	

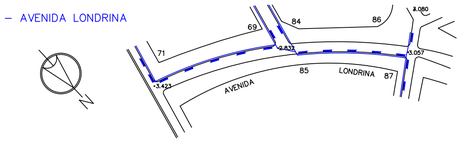
RAMAL 5 – AVENIDA ATLANTICA

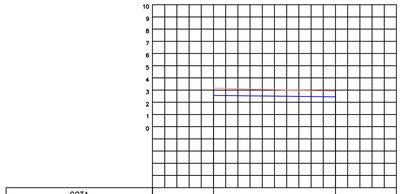




COTA DO TERRENO	3.473	2.882	2.882		3.107
COTA DA GERATRIZ INFERIOR DA GALERIA	2.954	2.477 1.400	1.377		1.265
PROFUNDIDADE(m)	0.519	0.405 1.482	1.505		1.842
COMPRIMENTO		106.0	19.0		93.0
DECLIVIDADE(m/m)		0.0045	0.0012		0.0012
NUMERO DE REFERENCIA	71	69	85		87

RAMAL 5 – AVENIDA LONDRINA

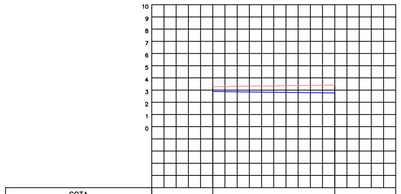




COTA DO TERRENO	3.153	2.910	
COTA DA GERATRIZ INFERIOR DA GALERIA	2.565	2.445	
PROFUNDIDADE(m)	0.588	0.465	
COMPRIMENTO		100.0	
DECLIVIDADE(m/m)		0.0012	
NUMERO DE REFERENCIA	62	60	

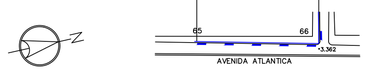
RAMAL 5 – AVENIDA CURITIBA

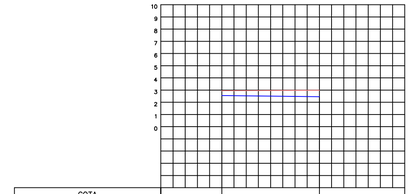




COTA DO TERRENO	3.283	3.412	
COTA DA GERATRIZ INFERIOR DA GALERIA	2.883	2.763	
PROFUNDIDADE(m)	0.400	0.649	
COMPRIMENTO		100.0	
DECLIVIDADE(m/m)		0.0012	
NUMERO DE REFERENCIA	65	66	

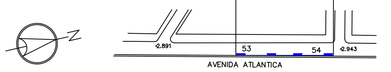
RAMAL 5 – AVENIDA ATLANTICA

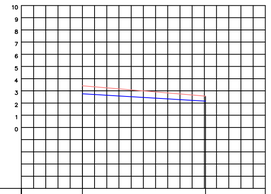




COTA DO TERRENO	2.950	2.993	
COTA DA GERATRIZ INFERIOR DA GALERIA	2.550	2.454	
PROFUNDIDADE(m)	0.400	0.539	
COMPRIMENTO		80.0	
DECLIVIDADE(m/m)		0.0012	
NUMERO DE REFERENCIA	53	54	

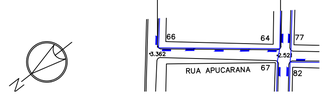
RAMAL 5 – AVENIDA ATLANTICA

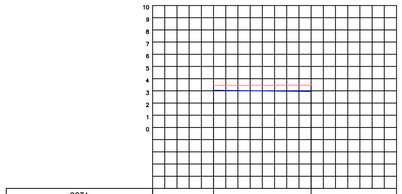




COTA DO TERRENO	3.412	2.571	
COTA DA GERATRIZ INFERIOR DA GALERIA	2.763	2.157	
PROFUNDIDADE(m)	0.649	0.414	
COMPRIMENTO		101.0	
DECLIVIDADE(m/m)		0.0060	
NUMERO DE REFERENCIA	66	64	

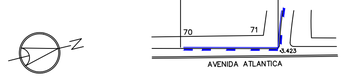
RAMAL 5 – RUA APUCARANA

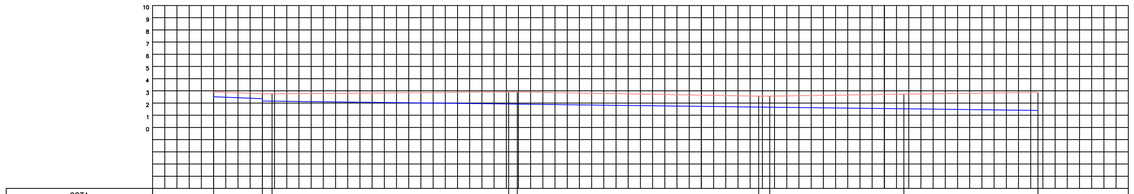




COTA DO TERRENO	3.450	3.473	
COTA DA GERATRIZ INFERIOR DA GALERIA	3.050	2.954	
PROFUNDIDADE(m)	0.400	0.519	
COMPRIMENTO		80.0	
DECLIVIDADE(m/m)		0.0012	
NUMERO DE REFERENCIA	70	71	

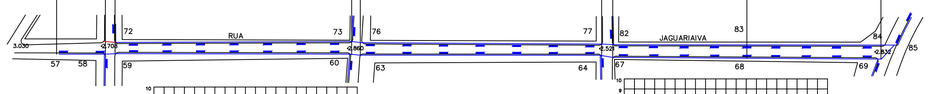
RAMAL 5 – AVENIDA ATLANTICA

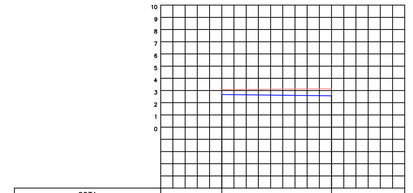




COTA DO TERRENO	2.919	2.758	2.758	2.910	2.910	2.571	2.571	2.726	2.882
COTA DA GERATRIZ INFERIOR DA GALERIA	2.519	2.359 2.163	2.153	1.921	1.912	1.675	1.664	1.532	1.400
PROFUNDIDADE(m)	0.400	0.399 0.595	0.605	0.989	0.998	0.896	0.907	1.194	1.482
COMPRIMENTO		40.0	8.0	194.0	7.0	198.0	9.0	110.0	110.0
DECLIVIDADE(m/m)		0.0040	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012
NUMERO DE REFERENCIA	57	58	59	60	63	64	67	68	69

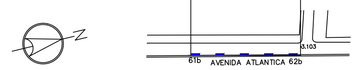
RAMAL 5 – RUA JAGUARIAIVA

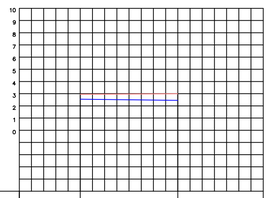




COTA DO TERRENO	3.073	3.153	
COTA DA GERATRIZ INFERIOR DA GALERIA	2.673	2.565	
PROFUNDIDADE(m)	0.400	0.588	
COMPRIMENTO		90.0	
DECLIVIDADE(m/m)		0.0012	
NUMERO DE REFERENCIA	61b	62b	

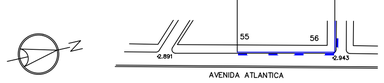
RAMAL 5 – AVENIDA ATLANTICA

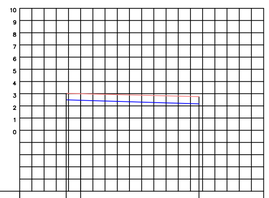




COTA DO TERRENO	2.950	2.889	
COTA DA GERATRIZ INFERIOR DA GALERIA	2.550	2.454	
PROFUNDIDADE(m)	0.400	0.539	
COMPRIMENTO		80.0	
DECLIVIDADE(m/m)		0.0012	
NUMERO DE REFERENCIA	55	56	

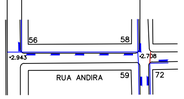
RAMAL 5 – AVENIDA ATLANTICA

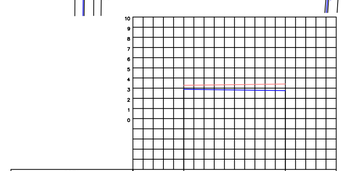




COTA DO TERRENO	2.993	2.889	2.758
COTA DA GERATRIZ INFERIOR DA GALERIA	2.454	2.350	2.163
PROFUNDIDADE(m)	0.540	0.539	0.595
COMPRIMENTO			97.0
DECLIVIDADE(m/m)			0.0030
NUMERO DE REFERENCIA	54	56	58

RAMAL 5 – RUA ANDIRA

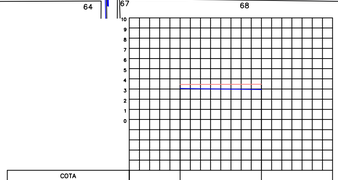




COTA DO TERRENO	3.283	3.412
COTA DA GERATRIZ INFERIOR DA GALERIA	2.883	2.763
PROFUNDIDADE(m)	0.400	0.649
COMPRIMENTO		100.0
DECLIVIDADE(m/m)		0.0012
NUMERO DE REFERENCIA	65b	66b

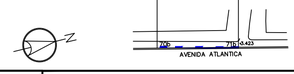
RAMAL 5 – AVENIDA ATLANTICA



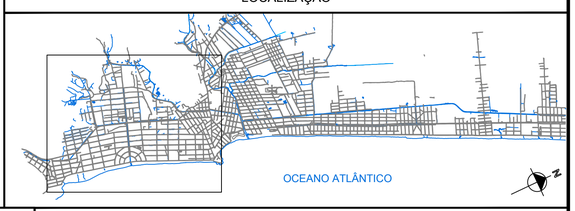


COTA DO TERRENO	3.450	3.473
COTA DA GERATRIZ INFERIOR DA GALERIA	3.050	2.954
PROFUNDIDADE(m)	0.400	0.519
COMPRIMENTO		80.0
DECLIVIDADE(m/m)		0.0012
NUMERO DE REFERENCIA	70b	71b

RAMAL 5 – AVENIDA ATLANTICA



LOCALIZAÇÃO



NOTAS

1 - DIMENSÕES E NÍVEIS EM METROS;
2 - DATUM HORIZONTAL: SAD-69
3 - DATUM VERTICAL: IMBITUBA - SC (IBGE)
4 - ORIGEM DA QUILOMETRAGEM UTM: EQUADOR E MERIDIANO 51° W Gr
ACRESCIDAS AS CONSTANTES: 10.000 km E 500 km RESPECTIVAMENTE
5 - PROJEÇÃO UNIVERSAL TRANSVERSA DE MERCATOR
6 - LEVANTAMENTO TOPOGRÁFICO REALIZADO EM OUTUBRO DE 2012

LEGENDA

TERRENO
GALERIAS

INSTITUTO ÁGUA E TERRA

DADOS TÉCNICOS:
MICRODRENAGEM
RECUPERAÇÃO DA ORLA DE MATINHOS
MUNICÍPIO: MATINHOS – PR

REFERÊNCIA:
RAMAL 5 – PERFIL TRECHOS: AV. ATLANTICA – AV. LONDRINA – AV. CURITIBA – R. APUCARANA – R. JAGUARIAIVA

ARQUIVO DWG:	ESCALA: 1:1000	DIM.:	FOLHA: MID-CAI-09-51
DESENHO:	REVISÃO:	DATA: JUL/2020	ROBERTO MACHADO CORREA CREA SP-5069975051/D