



AGÊNCIA GOIANA DE INFRAESTRUTURA E TRANSPORTES
DIRETORIA DE MANUTENÇÃO (DMA)
GERÊNCIA DE MANUTENÇÃO VIÁRIA (GEMVI)

RELATÓRIO TÉCNICO DE LEVANTAMENTO PLANIALTIMÉTRICO E CADASTRAL

PRODUTO – 06S

VOLUME 1

LOTE - 03

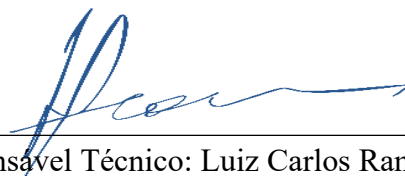
REGIONAL 11

RELATÓRIO TÉCNICO DE LEVANTAMENTO PLANIALTIMÉTRICO E CADASTRAL

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Agosto / 2025

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IDENTIFICAÇÃO DO LOCAL

Estado: Goiás
Município: Goiânia – GO. / Goianira – GO
Endereço: GO – 070 / S.R.E.: 070EGO0017 – 070EGO0020
Local: Lote – 03 / Regional - 11

LISTA DE FIGURAS

Figura 1: Início – 070EGO0017.

Figura 2: Mapa Município Goiânia – GO / Goianira – GO.

Figura 3: Projeto Tipo para implantação de marco.

Figura 4: GNSS Base e Rover SP60.

Figura 5: GNSS Base e Rover T20.

Figura 6: Marcos M-229 e M-237.

Figura 7: Ajuste de rede dos marcos de apoio da poligonal principal.

Figura 8: Estações da Rede Brasileira de Monitoramento Contínuo.

Figura 9: levantamento de Campo.

SUMÁRIO

1	PRÓLOGO.....	6
2	DESCRIÇÃO DO LOCAL.....	7
2.1	DESCRIÇÃO DOS SERVIÇOS	9
2.2	GERAÇÃO DA BASE CARTOGRÁFICA	10
3	IMPLANTAÇÃO DE REDE DE MARCOS GEODÉSICOS DE APOIO.....	12
3.1	EQUIPAMENTOS UTILIZADOS.....	14
3.2	METODOLOGIA APLICADA A IMPLANTAÇÃO DOS MARCOS	15
3.3	ESTATÍSTICAS DO AJUSTAMENTO	16
3.4	TABELA LINHA DA BASE DO PÓS PROCESSAMENTO ESTÁTICO.....	17
3.5	COORDENADAS GEODÉSICAS AJUSTADAS.....	18
3.6	ESTATÍSTICAS DO AJUSTAMENTO	19
3.7	COORDENADAS GEODÉSICAS AJUSTADAS.....	20
4	POLIGONAL.....	21
5	MONOGRAFIA DOS MARCOS GEODÉSICOS	23
6	LEVANTAMENTO CADASTRAL DOS PONTOS NOTÁVEIS	26
7	DESCRIÇÃO DOS EQUIPAMENTOS UTILIZADOS NOS ESTUDOS TOPOGRÁFICOS ..	133
8	RELATÓRIO DE PROCESSAMENTO DOS MARCOS DE CONTROLE.....	135
9	REFERENCIAS BIBLIOGRÁFICAS.....	149
10	TERMO DE ENCERRAMENTO.....	151

1 PRÓLOGO

Este relatório tem por objetivo descrever toda a técnica empregada para a execução e processamento do levantamento planialtimétrico e cadastral realizado na Bueiros da Rodovia GO-070, que liga os municípios de Goiânia - GO a Goianira - GO. Este trabalho foi implementado utilizando diferentes metodologias no intuito de fornecer maior confiabilidade à topografia executiva do trecho.

O presente trabalho encontra-se georreferenciado ao Datum Horizontal SIRGAS 2000 UTM, FUSO 22 SUL e ao Datum Vertical hgeoHNOR 2020, sendo estes os sistemas adotados pelo Sistema Geodésico Brasileiro (SGB).

2 DESCRIÇÃO DO LOCAL

O local objeto deste presente levantamento é uma rodovia pública de domínio estatal, localizado no município de Goiânia - GO e Goianira - GO mais precisamente interligando ambos os municípios iniciando e se findando nos perímetros urbanos, a S.R.E 070EGO0017 e a 070EGO0020, rodovia pavimentada em Concreto Betuminoso Usinado a Quente (CBUQ), segmento de mão dupla, pertencentes a GO-070, apresentando patologias predominantes Trincas Desgaste, Desagregação, Remendos e Afundamentos.

Quanto a 070EGO0017 podemos destacar sua extensão de 12,330 km (Doze quilômetros e trezentos e trinta metros), e larguras próximas a 7,0m (sete metros), cujo as coordenadas de localização Geográfica iniciais são: -16.653967°, -49.331535°, e finais são: -16.565134°, -49.399294°.

Quanto a 070EGO0020 podemos destacar sua extensão de 8,948 km (Oito quilômetros e novecentos e quarenta e oito metros), e larguras próximas a 7,0m (sete metros), cujo as coordenadas de localização Geográfica iniciais são: -16.565134°, -49.399294°, e finais são: -16.492372°, -49.423340°

Tratando com mais exatidão da obra em, serão aproximados 21,278km (vinte e um quilômetros, duzentos e setenta e oito metros) de intervenções em segmentos contínuos no sentido crescente (pista leste) e decrescente (pista oeste) da rodovia.

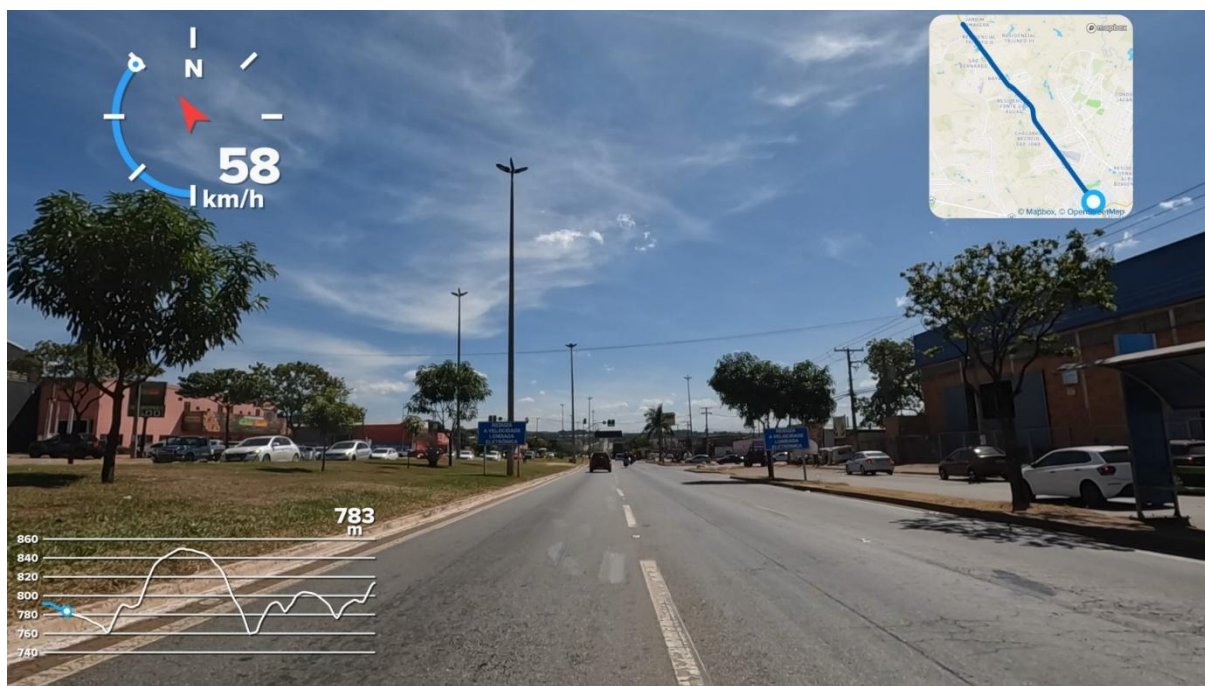


Figura 1: Início – 070EGO0017.

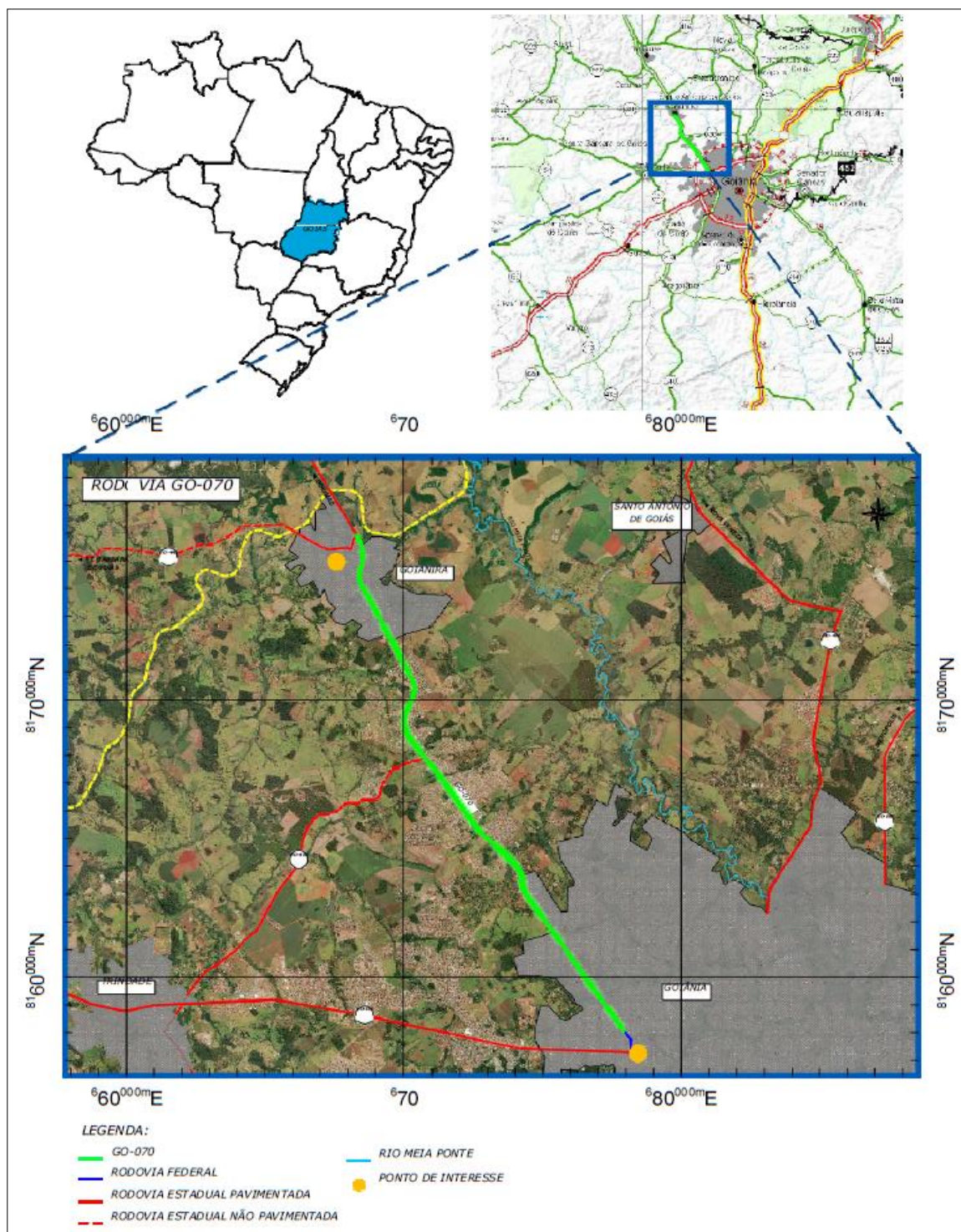


Figura 2: Mapa Município Goiânia – GO / Goianira – GO.
Fonte: IBGE, 2021

2.1 DESCRIÇÃO DOS SERVIÇOS

Os Estudos Topográficos foram realizados com a finalidade de fornecer os subsídios necessários para a elaboração dos Projetos de Engenharia, caracterizando as informações de natureza planialtimétricas do terreno localizado na área influência da rodovia.

Objetivando a obtenção de modelos topográficos digitais do terreno que possam orientar a elaboração dos estudos, foram utilizados dados obtidos por implantação de rede geodésica, levantamento aerofotogramétrico e perfilamento a laser. O levantamento conta, ainda, com apoio em solo, a partir de receptores GNSS, para a implantação da rede geodésica do projeto, pontos de controle para apoio dos modelos gerados e cadastro das obras-de-arte correntes.

Em paralelo às definições referentes ao traçado a ser adotado, foram realizados os serviços de campo visando a continuidade do projeto de restauração do pavimento.

Os levantamentos foram elaborados em conformidade com as normas vigentes, tais como:

ASSOCIAÇÃO BRASILEIRA DE NORMAS TÉCNICAS. NBR 13133: Execução de levantamento topográfico. Rio de Janeiro. 1994;

IBGE – INSTITUTO BRASILEIRO DE GEOGRAFIA E ESTATÍSTICA. Recomendações para levantamentos relativos estáticos – GPS. 2008;

DNIT – DEPARTAMENTO NACIONAL DE INFRAESTRUTURA DE TRANSPORTES. Instrução de serviço nº 13. 2006;

DNIT – DEPARTAMENTO NACIONAL DE INFRAESTRUTURA DE TRANSPORTES. IS-204: Estudos topográficos para projetos básicos de engenharia. Rio de Janeiro. 2006.3;

DNIT – DEPARTAMENTO NACIONAL DE INFRAESTRUTURA DE TRANSPORTES. IS-205: Estudos topográficos para projetos executivos de engenharia. Rio de Janeiro. 2006. 143

DNIT – DEPARTAMENTO NACIONAL DE INFRAESTRUTURA DE TRANSPORTES. IS-201: Levantamento aerofotogramétrico e perfilamento a laser para projetos básicos de ferrovias. Rio de Janeiro. 2015

DNIT – DEPARTAMENTO NACIONAL DE INFRAESTRUTURA DE TRANSPORTES. IS-202: Levantamento aerofotogramétrico e perfilamento a laser para projetos executivos de ferrovias. Rio de Janeiro. 2015;

GOINFRA – AGÊNCIA GOIANA DE INFRAESTRUTURA E TRANSPORTES: IP-02 - 2023/001: Instrução de Projeto Rodoviário – Projetos Topográficos, Goiânia, 2023;

Para o escopo dos trabalhos visando a captação dos dados e especialização foram utilizados apoio de campo na captação de pontos de controle e bases GNSS em solo; auxílio complementar do levantamento Planimétrico com uso de Receptor GNSS RTK. Para a Rede Geodésica ao levantamento, este é composto por 22 marcos geodésicos distribuídos ao longo do trecho; Na geração de modelo digital de terreno e curvas de nível com Equidistância de 1m, Processamento de trajetória e exportação da Nuvem de Pontos Processada dos dados provenientes; e Geração do Modelo Digital de Terreno e Curva de Nível com equidistância de 1,0 m.

2.2 GERAÇÃO DA BASE CARTOGRÁFICA

Serviço realizado sobre a Base Cartográfica Unificada de toda faixa de interesse, incluindo todos os dados vetoriais e pontuais restituídos, contendo curva de nível a cada 1,0 m com pontos cotados de altitude em planta desenhada na escala 1:2.000.

Referencial Planialtimétrico da Rede Geodésica e Pontos de Controle consiste na determinação de coordenadas para pontos materializados na superfície terrestre, em um dado Sistema de Referência, utilizando como meio técnicas que envolvem os diversos campos da Geodésia, como a Espacial, Geométrica e/ou Física.

Os vértices de primeira ordem do IBGE, que foram homologados junto ao Sistema Geodésico Brasileiro - SGB - servem como base para todos os trabalhos realizados.

O objetivo da Rede Geodésica é determinar as melhores opções para o uso de pontos planimétricos e altimétricos que compõem a Rede Geodésica de Primeira Ordem do SGB, bem como para a implantação de novos pontos ao longo das Áreas de Interesse.

A Rede Geodésica acima mencionada é definitiva e pode servir como referência cartográfica para todos os levantamentos topográficos futuros. Além disso, foi usada para transportar as coordenadas geodésicas dos Pontos de Controle.

O levantamento geodésico foi usado para coletar pontos de controle para as etapas de aerotriangulação e controle de qualidade do produto. A Rede Geodésica coleta esses dados.

3 IMPLANTAÇÃO DE REDE DE MARCOS GEODÉSICOS DE APOIO

Com objetivo de subsidiar os levantamentos de campo, implantou-se uma rede de marcos geodésicos conforme diretrizes descritas nas Instruções de Serviço (IP-02 GOINFRA – Estudos Topográficos).

Visando o possível emprego de vértices existentes, para servir como referência aos trabalhos a serem executados, foram planejadas as utilizações de determinadas bases da Rede Brasileira de Monitoramento Contínuo dos Sistemas GNSS - RMBC mais próximas das áreas de interesse do projeto.

Posteriormente à identificação dos vértices existentes, foi realizado um planejamento para execução dos trabalhos de Apoio de Campo. Nesse planejamento, foram levantadas as possibilidades e necessidade de utilização de todos os vértices necessários, levando sempre em consideração as questões relacionadas à disponibilização dos arquivos RINEX pelo IBGE (para o caso de utilização das RBMC's) e as informações apresentadas nos Relatórios de Informação das Estações Geodésicas.

Os pontos foram implantados em locais adequados, evitando regiões próximas a estações de transmissão de micro-ondas, radares, antenas, rádio repetidoras, redes elétricas de alta tensão, árvores altas e outras estruturas que poderão interferir nos sinais “GNSS” e evitando ao máximo locais que facilitem a degradação deles.

Utilizando as Estações Geodésicas do IBGE foram determinadas as coordenadas tridimensionais de 3,0 (três) marcos geodésicos denominados como Marcos de Controle (M-229, M-240 e M-250), sendo utilizados como referência para a determinação dos marcos de segunda ordem, marcos de apoio implantados ao longo da rodovia

A rede de marcos

Os marcos foram materializados conforme diretrizes da IP-02 GOINFRA – Estudos Topográficos. Além das observações referentes à localização dos marcos a serem implantados, foram verificadas também questões relacionadas ao tipo de marco instalado. O marco de concreto possui seção da base de 0,30 x 0,30 m, topo 0,18 x 0,18 m, altura de 0,40 m e sapata de proteção lateral de 1,00 x 1,00 m, conforme detalhe ilustrado a seguir.

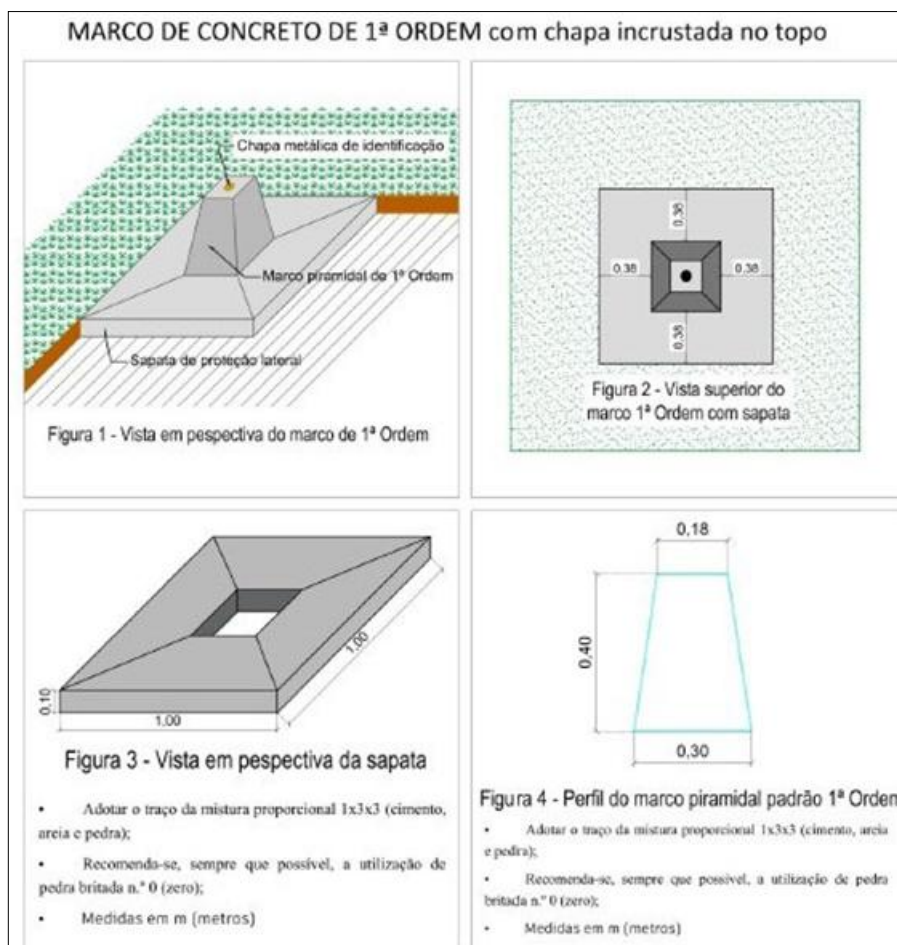


Figura 3: Projeto tipo para implantação de marco.
Fonte: IP-02 GOINFRA – Estudos Topográficos, GOINFRA.

3.1 EQUIPAMENTOS UTILIZADOS

Foram utilizados os seguintes equipamentos para a execução do levantamento topográfico planialtimétrico:

- Par de receptores GNSS SP60:
- Par de receptores GNSS TPS T20:

Trata-se de um receptor L1/L2/L5 com 240 canais, Figura 03 e um receptor L1L2, L5 com 624 canais, com métodos de trabalho no modo estático, cinemático e RTK. O equipamento apresenta tecnologia de redução de multe caminhamento e medição de fase de onda portadora com baixo ruído permitindo rastreios de informações com maior confiabilidade mesmo em regiões urbanas. As especificações técnicas do equipamento estão dispostas a seguir:



Figura 4: GNSS Base e Rover SP60.



Figura 5:GNSS Base e Rover T20.

3.2 METODOLOGIA APLICADA A IMPLANTAÇÃO DOS MARCOS

Os locais de instalação dos marcos geodésicos foram definidos a partir da primeira ida a campo, após uma conferência visual do local de trabalho.

Obedecendo ao que propõe a norma técnica NBR 13.133/1996 e com vista a posterior execução de uma poligonal topográfica, optou-se por instalá-los em pares com visadas mínimas de 100 metros entre si. Estes foram materializados as margens da rodovia GO-070, sendo de concreto e devidamente identificados.

Para a realização do rastreamento dos marcos optou-se pela utilização da técnica de rastreamento relativo estático com o GNSS SP60 como Base e duração aproximada de 9 horas de rastreamento para o ponto M-229. Para os demais marcos geodésicos, M-231, M-233, M-235 e M-237 utilizou-se o receptor SP60 no modo Rover com um intervalo de rastreamento de uma hora em cada um deles.

M-229 adotando o pós-processamento a partir da triangulação utilizando as Bases.

Estação 1:

- Nome da Estação: GOIÂNIA;
- Identificação da Estação: GOGY;
- Código SAT: 92860;
- Código Internacional: 48095M001;

Estação 2:

- Nome da Estação: BRASÍLIA;
- Identificação da Estação: BRAZ;
- Código SAT: 91200;
- Código Internacional: 41606M001;

3.3 ESTATÍSTICAS DO AJUSTAMENTO

Número de iterações para ajuste bem-sucedido: 2
Fator de referência de rede: 1,04
Teste de Qui Quadrado (95%): Passado
Nível de Confiança: 95%
Graus de Liberdade: 4

Estatísticas do vetor pós-processado

Fator de referência: 1,04
Número da redundância: 4

ID DO PONTO	TIPO	LESTE	NORTE	ALTURA	ELEVAÇÃO
BRAZ	Global	Fixo	Fixo	Fixo	Fixo
GOGY	Global	Fixo	Fixo	Fixo	Fixo
Fixo = 0,000001(Metro)					

ID do ponto	Direção leste	Direção leste Erro	Direção norte	Direção norte Erro	Elevação	Elevação Erro	Elevação Erro
BRAZ	834270,248		8234370,480				LLa
GOGY	686129,620		8156720,617				LLa
M-229	677874,566	0,002	8158091,976	0,002			

3.4 TABELA LINHA DA BASE DO PÓS PROCESSAMENTO ESTÁTICO

A seguir é apresentada a tabela de processamento gerada pelo software Survey Office com os parâmetros utilizados no ajustamento assim como as coordenadas e as suas incertezas obtidas para cada um dos marcos implantados.

Para o processamento dos vetores para determinar as coordenadas e as incertezas dos marcos M-231, M-233, M-235 e M-237, utilizou-se o software Survey Office.

As figuras a seguir ilustram o rastreamento dos marcos geodésicos em campo.



Figura 6: Marcos M-229 e M-237.

3.5 COORDENADAS GEODÉSICAS AJUSTADAS

ID do ponto	Latitude	Longitude	Altura	Altura Erro	Restrição
			(Metro)	(Metro)	
M-229	S16°39'10,70719"	O49°19'55,78746"	776,551	-	LLa
M-231	S16°37'29,00293"	O49°21'12,51502"	824,802	0,045	
M-233	S16°35'34,87572"	O49°22'33,16300"	764,777	0,044	
M-235	S16°34'01,41781"	O49°23'52,16817"	778,803	0,064	
M-237	S16°31'56,76065"	O49°24'28,46038"	792,81	0,017	

Coordenadas de ECEF ajustadas;

ID do ponto	X	X Erro	Y	Y Erro	Z	Z Erro	3D Erro	Restrição
M-229	3983707,752	-	-4636749,908	-	-1816295,824	-	-	LLa
M-231	3982595,994	0,029	-4638945,87	0,032	-1813313,742	0,015	0,046	
M-233	3981397,446	0,028	-4641220,242	0,033	-1809934,232	0,014	0,045	
M-235	3980161,779	0,041	-4643377,6	0,047	-1807184,433	0,022	0,066	
M-237	3980063,766	0,011	-4644916,999	0,013	-1803514,74	0,005	0,017	

ERRO nos Componentes de Elipses;

ID do ponto	Eixo semimaior	Eixo semimenor	Azimute
M-231	0.008	0.007	63°
M-233	0.009	0.008	159°
M-235	0.012	0.012	97°
M-237	0.003	0.003	145°

3.6 ESTATÍSTICAS DO AJUSTAMENTO

Número de iterações para ajuste bem-sucedido: 2
Fator de referência de rede: 1
Teste de Qui Quadrado (95%): Passado
Nível de Confiança: 95%
Graus de Liberdade: 22

Estatísticas do vetor pós-processado

Fator de referência: 1
Número da redundância: 22
Um escalar a priori: 2,43

ID DO PONTO	TIPO	LESTE	NORTE	ALTURA	ELEVAÇÃO
M-229	Global	Fixo	Fixo	Fixo	Fixo
M-240	Global	Fixo	Fixo	Fixo	Fixo
Fixo = 0, 000001(Metro)					

ID do ponto	Direção leste	Direção leste Erro	Direção norte	Direção norte Erro	Elevação	Elevação Erro	Elevação Erro
M-229	677874,566		8158091,976				LLa
M-231	675626,717	0,006	8161237,090	0,006			
M-233	673265,070	0,007	8164764,700	0,007			
M-235	670946,243	0,009	8167656,246	0,009			
M-237	669900,722	0,002	8171496,491	0,002			

3.7 COORDENADAS GEODÉSICAS AJUSTADAS

ID do ponto	Latitude	Longitude	Altura	Altura Erro	Restrição
M-229	S16°39'10,70719"	O49°19'55,78746"	776,551	-	LLa
M-231	S16°37'29,00293"	O49°21'12,51502"	824,802	0,045	
M-233	S16°35'34,87572"	O49°22'33,16300"	764,777	0,044	
M-235	S16°34'01,41781"	O49°23'52,16817"	778,803	0,064	
M-237	S16°31'56,76065"	O49°24'28,46038"	792,81	0,017	

Coordenadas de ECEF ajustadas;

ID do ponto	X	X Erro	Y	Y Erro	Z	Z Erro	3D Erro	Restrição
M-229	3983707,752	-	-4636749,908	-	-1816295,824	-	-	LLa
M-231	3982595,994	0,029	-4638945,87	0,032	-1813313,742	0,015	0,046	
M-233	3981397,446	0,028	-4641220,242	0,033	-1809934,232	0,014	0,045	
M-235	3980161,779	0,041	-4643377,6	0,047	-1807184,433	0,022	0,066	
M-237	3980063,766	0,011	-4644916,999	0,013	-1803514,74	0,005	0,017	

ERRO nos Componentes de Elipses;

ID do ponto	Eixo semimaior	Eixo semimenor	Azimute
M-231	0.008	0.007	63°
M-233	0.009	0.008	159°
M-235	0.012	0.012	97°
M-237	0.003	0.003	145°

4 POLIGONAL

A partir do ponto	Para o ponto		Componentes	Erro a posteriori	Precisão horizontal (Razão)	Precisão 3D (Razão)
M-229	M-230	Az.	314°54'34"	3,114 seg	1 : 82662	1 : 82139
		ΔAlt.	-2,383 m	0,021 m		
		ΔElev.	?	?		
		Dist. elips.	182,373 m	0,002 m		
M-229	M-231	Az.	323°58'07"	0,353 seg	1 : 644918	1 : 658612
		ΔAlt.	48,251 m	0,045 m		
		ΔElev.	?	?		
		Dist. elips.	3865,873 m	0,006 m		
M-229	M-232	Az.	323°43'57"	0,253 seg	1 : 901202	1 : 919077
		ΔAlt.	50,468 m	0,035 m		
		ΔElev.	?	?		
		Dist. elips.	4015,609 m	0,004 m		
M-229	M-233	Az.	324°53'10"	0,169 seg	1 : 1157011	1 : 1157394
		ΔAlt.	-11,774 m	0,044 m		
		ΔElev.	?	?		
		Dist. elips.	8110,189 m	0,007 m		
M-229	M-234	Az.	324°28'18"	0,186 seg	1 : 1054907	1 : 1055053
		ΔAlt.	-4,310 m	0,049 m		
		ΔElev.	?	?		
		Dist. elips.	8314,332 m	0,008 m		
M-229	M-235	Az.	323°36'13"	0,165 seg	1 : 1251431	1 : 1251551
		ΔAlt.	2,252 m	0,064 m		
		ΔElev.	?	?		
		Dist. elips.	11810,316 m	0,009 m		
M-229	M-236	Az.	323°35'24"	0,157 seg	1 : 1310398	1 : 1310705
		ΔAlt.	3,962 m	0,061 m		
		ΔElev.	?	?		
		Dist. elips.	11929,251 m	0,009 m		
M-229	M-240	Az.	331°10'27"	0,000 seg	01:00	01:00
		ΔAlt.	-33,557 m	0,000 m		
		ΔElev.	?	?		
		Dist. elips.	20368,098 m	0,000 m		
M-240	M-230	Az.	151°20'43"	0,028 seg	1 : 9120792	1 : 9126805
		ΔAlt.	31,174 m	0,021 m		
		ΔElev.	?	?		
		Dist. elips.	20193,089 m	0,002 m		
M-240	M-231	Az.	152°52'49"	0,083 seg	1 : 2764924	1 : 2735159
		ΔAlt.	81,808 m	0,045 m		
		ΔElev.	?	?		
		Dist. elips.	16539,866 m	0,006 m		
M-240	M-232	Az.	153°01'06"	0,062 seg	1 : 3678435	1 : 3640064
		ΔAlt.	84,025 m	0,035 m		
		ΔElev.	?	?		
		Dist. elips.	16394,563 m	0,004 m		
M-240	M-233	Az.	155°19'43"	0,111 seg	1 : 1754757	1 : 1754755
		ΔAlt.	21,783 m	0,044 m		
		ΔElev.	?	?		
		Dist. elips.	12338,715 m	0,007 m		
M-240	M-234	Az.	155°46'54"	0,127 seg	1 : 1538606	1 : 1537871
		ΔAlt.	29,247 m	0,049 m		
		ΔElev.	?	?		
		Dist. elips.	12149,405 m	0,008 m		
M-240	M-235	Az.	161°23'07"	0,222 seg	1 : 934466	1 : 930275
		ΔAlt.	35,809 m	0,064 m		
		ΔElev.	?	?		
		Dist. elips.	8799,383 m	0,009 m		
M-240	M-236	Az.	161°38'32"	0,215 seg	1 : 954540	1 : 951184
		ΔAlt.	37,519 m	0,061 m		
		ΔElev.	?	?		
		Dist. elips.	8687,071 m	0,009 m		

Figura 7: Ajuste de rede dos marcos de apoio da poligonal principal.

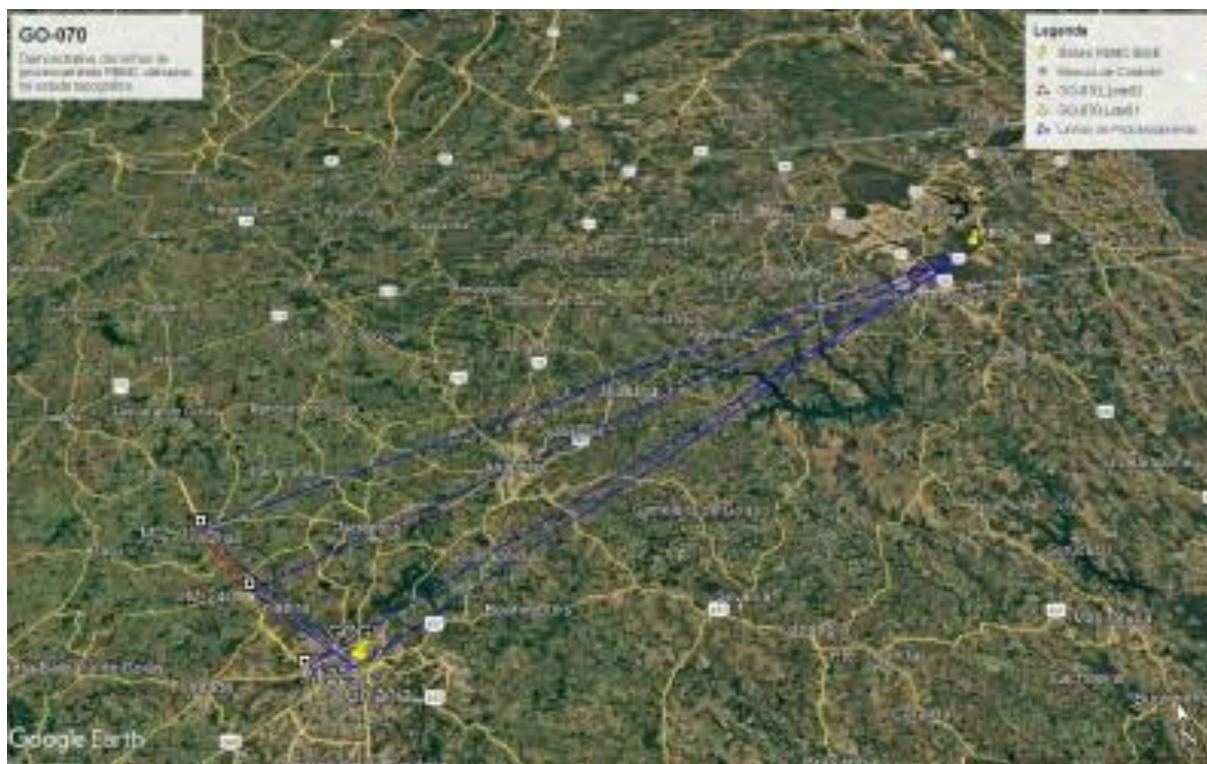










Figura 8: Estações da Rede Brasileira de Monitoramento Contínuo.

5 MONOGRAFIA DOS MARCOS GEODÉSICOS

EGETRA - Engenharia		Extensão: 84,88 kmf	
Rodovia: GO-070 Lote-01		Subtrecho: Goiânia / Goianira	
MONOGRAFIA DE MARCO GEODÉSICO			
M-231			
DADOS DE REFERÊNCIA			
Nome:	M-231	Referência:	M-229 e M-240
Estado:	Goiás	Município:	Goianira
Receptor:	SP60	Elipsoide:	GRS80
Antena:	SP60 Internal	Altura da Antena (m):	2,000
Data rastreio:	13/11/2024		
Tempo de Rastreio:	01:06:17		
Tipo de Processamento:	Relativo-Estático		
Meridiano Central:	-51		
DATUM: SIRGAS 2000 (ÉPOCA 2000)			
COORDENADAS GEODÉSICAS			
Latitude:	516°37'29,00293"	Longitude:	049°21'12,51502"
Altitude Geométrica (m):	824,802		
UTM (N):	8161237,090	UTM (E):	675626,717
Fuso:	22S		
Correção Ondulação Geoidal MapGEO 2020:	-9,740	Modelo:	hgeoHNOR_IMBITUBA
Altitude Ortométrica (m):	834,542		
DESVIO PADRÃO MÉDIO APÓS AJUSTAMENTO			
σ Latitude (m)	0,006	σ Longitude (m)	0,006
σ Altitude (m)	0,045		
DESCRIÇÃO			
Marco de concreto com seção da base de 0,30 x 0,30 m. topo 0,18 x 0,18 m. altura de 0,40 m e sapata de proteção lateral de 1,00 x 1,00 m.			
FOTOGRAFIAS			
			
13 de nov. de 2024 09:35:20 16,6247S 49,3535W ROVER-M231 GO-070		13 de nov. de 2024 09:35:01 16,6247S 49,3535W ROVER-M231 GO-070	
CROQUI			
			
ITINERÁRIO			
Canteiro lateral da rodovia ao lado direito, próximo ao posto de gasolina.			

EGETRA - Engenharia		Extensão: 84,88 kmf	
Rodovia: GO-070	Lote-01	Subtrecho: Goiânia / Goianira	
MONOGRAFIA DE MARCO GEODÉSICO			
M-237			
DADOS DE REFERÊNCIA			
Nome:	M-237	Referência:	M-229 e M-240
Estado:	Goiás	Município:	Goianira
Receptor:	SP60	Elipsoide:	GRS80
Antena:	SP60 Internal	Altura da Antena (m):	2,000
Data rastreio:	14/11/2024		
Tempo de Rastreio:	01:00:59		
Tipo de Processamento:	Relativo-Estático		
Meridiano Central:	-51		
DATUM: SIRGAS 2000 (ÉPOCA 2000)			
COORDENADAS GEODÉSICAS			
Latitude:	S16°31'56,76065"	Longitude:	O49°24'28,46038"
Altitude Geométrica (m):	792,810		
UTM (N):	8171496,491	UTM (E):	669900,722
Fuso:	225		
Correção Ondulação Geoidal MapGEO 2020:	-9,370	Modelo:	hgeoHNOR_IMBITUBA
Altitude Ortométrica (m):	802,180		
DESVIO PADRÃO MÉDIO APÓS AJUSTAMENTO			
σ Latitude (m)	0,002	σ Longitude (m)	0,002
σ Altitude (m)	0,017		
DESCRIÇÃO			
Marco de concreto com seção da base de 0,30 x 0,30 m. topo 0,18 x 0,18 m. altura de 0.40 m e sapata de proteção lateral de 1,00 x 1,00 m.			
FOTOGRAFIAS			
			
CROQUI			
			
ITINERÁRIO			
Canteiro lateral da rodovia ao lado direito.			

EGETRA - Engenharia		Extensão: 84,88 kmf	
Rodovia: GO-070	Lote-01	Subtrecho: Goiânia / Goianira	
MONOGRAFIA DE MARCO GEODÉSICO			
M-240			
DADOS DE REFERÊNCIA			
Nome:	M-240	Referência:	IBGE-RBMC
Estado:	Goiás	Município:	Goianira
Receptor:	SP60	Elipsoide:	GRS80
Antena:	SP60 Internal	Altura da Antena (m):	1,700
Data rastreio:	13/11/2024		
Tempo de Rastreio:	08:08:41		
Tipo de Processamento:	RBMC		
Meridiano Central:	-51		
DATUM: SIRGAS 2000 (ÉPOCA 2000)			
COORDENADAS GEODÉSICAS			
Latitude:	S16°29'30,14738"	Longitude:	O49°25'26,91119"
Altitude Geométrica (m):	742,994		
UTM (N):	8176016,657	UTM (E):	668202,924
Fuso:	22S		
Correção Ondulação Geoidal MapGEO 2020:	-9,340	Modelo:	hgeoHNOR_IMBITUBA
Altitude Ortométrica (m):	752,334		
DESVIO PADRÃO MÉDIO APÓS AJUSTAMENTO			
σ Latitude (m)	0,004	σ Longitude (m)	0,004
σ Altitude (m)	0,026		
DESCRIÇÃO			
Marco de concreto com seção da base de 0,30 x 0,30 m. topo 0,18 x 0,18 m. altura de 0,40 m e sapata de proteção lateral de 1,00 x 1,00 m.			
FOTOGRAFIAS			
			
13 de nov. de 2024 15:30:47 16,4917S 49,4242W BASE RBMC 240 GO-070		13 de nov. de 2024 15:30:56 16,4917S 49,4241W BASE RBMC 240 GO-070	
CROQUI			
			
ITINERÁRIO			
Canteiro lateral da rodovia ao lado esquerdo, após a rotatória.			

6 LEVANTAMENTO CADASTRAL DOS PONTOS NOTÁVEIS

Para a execução do levantamento cadastral foi utilizado o GNSS

TPS T20 Plus.

Foram coletadas as seguintes feições presentes na área de interesse conforme listado a seguir:

- Rios e córregos (margens, fundos, barrancos e meandros);
- Bueiros, pontes e viadutos;
- Vias de acesso e vias laterais;
- Cercas e divisas;
- Imóveis e edificações próximas à via;
- Serviços de utilidade pública (postes, torres elétricas, rede de esgoto e água);
- As cristas e pés de taludes e bancadas;
- Início e fim de cada segmento ou trecho;
- Espécies vegetais de grande porte ou de relevância para a flora e meio ambiente;
- Demais acidentes topográficos.

A Tabela no Anexo IV compõe a lista de pontos coletados e a seguir está disposto parte das feições levantadas em campo com o receptor GNSS.



LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-229		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
1	M-229	TN	-16,38340937	-49,20244407	22S	677034,8580	8159224,5040	8159224,5040	677034,8580	757,6660	-9,86	767,5260
2	M-229	TN	-16,38340866	-49,20264189	22S	676976,2400	8159225,2100	8159225,2100	676976,2400	749,5690	-9,86	759,4290
3	M-229	TN	-16,38341638	-49,2026482	22S	676974,3490	8159222,8510	8159222,8510	676974,3490	749,5780	-9,86	759,4380
4	M-229	TN	-16,38333598	-49,20236881	22S	677057,3480	8159246,8800	8159246,8800	677057,3480	750,3760	-9,86	760,2360
5	M-229	FUNDO	-16,38342082	-49,20263548	22S	676978,1070	8159221,4560	8159221,4560	676978,1070	748,3070	-9,86	758,1670
6	M-229	na	-16,3834209	-49,20263506	22S	676978,2320	8159221,4300	8159221,4300	676978,2320	748,6730	-9,86	758,5330
7	M-229	TN	-16,3833375	-49,20237131	22S	677056,6030	8159246,4180	8159246,4180	677056,6030	750,5460	-9,86	760,4060
8	M-229	na	-16,38343154	-49,20264333	22S	676975,7550	8159218,1790	8159218,1790	676975,7550	748,8900	-9,86	758,7500
9	M-229	FUNDO	-16,38343141	-49,202643	22S	676975,8530	8159218,2180	8159218,2180	676975,8530	748,5290	-9,86	758,3890
10	M-229	na	-16,38341893	-49,20264702	22S	676974,6940	8159222,0640	8159222,0640	676974,6940	748,6660	-9,86	758,5260
11	M-229	FUNDO	-16,38341905	-49,20264695	22S	676974,7140	8159222,0280	8159222,0280	676974,7140	748,4540	-9,86	758,3140
12	M-229	FUNDO	-16,38342586	-49,20264459	22S	676975,3950	8159219,9300	8159219,9300	676975,3950	748,4200	-9,86	758,2800
13	M-229	BO	-16,3833822	-49,20240227	22S	677047,3140	8159232,7550	8159232,7550	677047,3140	759,0230	-9,86	768,8830
14	M-229	TN	-16,38331633	-49,2023062	22S	677075,9530	8159252,7650	8159252,7650	677075,9530	747,9060	-9,86	757,7660
15	M-229	TN	-16,38332966	-49,20230752	22S	677075,5270	8159248,6700	8159248,6700	677075,5270	746,1050	-9,86	755,9650
16	M-229	na	-16,38332308	-49,20230747	22S	677075,5570	8159250,6940	8159250,6940	677075,5570	746,3080	-9,86	756,1680
17	M-229	FUNDO	-16,38332346	-49,20230762	22S	677075,5120	8159250,5770	8159250,5770	677075,5120	745,9480	-9,86	755,8080
18	M-229	TN	-16,38358698	-49,20230407	22S	677075,8930	8159169,5640	8159169,5640	677075,8930	755,2580	-9,86	765,1180
19	M-229	TN	-16,38333348	-49,20235244	22S	677062,2060	8159247,6090	8159247,6090	677062,2060	748,1630	-9,86	758,0230
20	M-229	na	-16,38335114	-49,20234997	22S	677062,8910	8159242,1730	8159242,1730	677062,8910	747,1760	-9,86	757,0360
21	M-229	FUNDO	-16,38335105	-49,20234989	22S	677062,9170	8159242,2000	8159242,2000	677062,9170	747,0640	-9,86	756,9240
22	M-229	TN	-16,38364783	-49,20235184	22S	677061,5800	8159150,9790	8159150,9790	677061,5800	753,5430	-9,86	763,4030
23	M-229	na	-16,38333591	-49,20235211	22S	677062,2980	8159246,8610	8159246,8610	677062,2980	747,0760	-9,86	756,9360
24	M-229	FUNDO	-16,3833359	-49,20235211	22S	677062,2960	8159246,8630	8159246,8630	677062,2960	747,0140	-9,86	756,8740
25	M-229	TN	-16,38364403	-49,20234803	22S	677062,7210	8159152,1370	8159152,1370	677062,7210	755,1540	-9,86	765,0140



LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-229		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
26	M-229	na	-16,38332468	-49,20225903	22S	677089,9080	8159250,0820	8159250,0820	677089,9080	745,8730	-9,86	755,7330
27	M-229	na	-16,38331484	-49,20226133	22S	677089,2520	8159253,1120	8159253,1120	677089,2520	745,9110	-9,86	755,7710
28	M-229	TN	-16,3835994	-49,20230806	22S	677074,6780	8159165,7570	8159165,7570	677074,6780	755,5680	-9,86	765,4280
29	M-229	TN	-16,38333655	-49,20225648	22S	677090,6340	8159246,4270	8159246,4270	677090,6340	746,1180	-9,86	755,9780
30	M-229	na	-16,38333399	-49,20225762	22S	677090,3020	8159247,2180	8159247,2180	677090,3020	745,9490	-9,86	755,8090
31	M-229	FUNDO	-16,38333387	-49,20225743	22S	677090,3580	8159247,2530	8159247,2530	677090,3580	745,5990	-9,86	755,4590
32	M-229	FUNDO	-16,38334256	-49,20230635	22S	677075,8390	8159244,7020	8159244,7020	677075,8390	745,9280	-9,86	755,7880
33	M-229	FUNDO	-16,3833308	-49,2023075	22S	677075,5290	8159248,3220	8159248,3220	677075,5290	746,1400	-9,86	756,0000
34	M-229	TN	-16,38356488	-49,20232171	22S	677070,7200	8159176,4020	8159176,4020	677070,7200	755,3070	-9,86	765,1670
35	M-229	TN	-16,38357034	-49,20232674	22S	677069,2180	8159174,7370	8159174,7370	677069,2180	755,2040	-9,86	765,0640
36	M-229	FUNDO	-16,383316	-49,20226127	22S	677089,2660	8159252,7570	8159252,7570	677089,2660	745,6650	-9,86	755,5250
37	M-229	TN	-16,38331351	-49,20226152	22S	677089,2000	8159253,5210	8159253,5210	677089,2000	746,5430	-9,86	756,4030
38	M-229	TN	-16,38334713	-49,20230452	22S	677076,3720	8159243,2950	8159243,2950	677076,3720	746,5100	-9,86	756,3700
39	M-229	na	-16,38340306	-49,20263099	22S	676979,4840	8159226,9030	8159226,9030	676979,4840	748,7660	-9,86	758,6260
40	M-229	na	-16,38341144	-49,20262437	22S	676981,4240	8159224,3110	8159224,3110	676981,4240	748,6890	-9,86	758,5490
41	M-229	BO	-16,38346537	-49,20233876	22S	677065,9220	8159207,0330	8159207,0330	677065,9220	757,6330	-9,86	767,4930
42	M-229	TN	-16,38340055	-49,20261335	22S	676984,7170	8159227,6330	8159227,6330	676984,7170	750,2170	-9,86	760,0770
43	M-229	TN	-16,38340039	-49,20263318	22S	676978,8410	8159227,7290	8159227,7290	676978,8410	749,5630	-9,86	759,4230
44	M-229	FUNDO	-16,38341178	-49,20262423	22S	676981,4650	8159224,2070	8159224,2070	676981,4650	748,5450	-9,86	758,4050
45	M-229	TN	-16,38342906	-49,20263166	22S	676979,2200	8159218,9140	8159218,9140	676979,2200	749,4420	-9,86	759,3020
46	M-229	na	-16,3834261	-49,202633	22S	676978,8290	8159219,8280	8159219,8280	676978,8290	748,7740	-9,86	758,6340
47	M-229	TN	-16,38335304	-49,20235923	22S	677060,1420	8159241,6110	8159241,6110	677060,1420	750,0470	-9,86	759,9070
48	M-229	FUNDO	-16,38341833	-49,20262045	22S	676982,5670	8159222,1850	8159222,1850	676982,5670	748,5340	-9,86	758,3940
49	M-229	na	-16,38341834	-49,20262054	22S	676982,5410	8159222,1810	8159222,1810	676982,5410	748,7630	-9,86	758,6230
50	M-229	TN	-16,38337219	-49,20231827	22S	677072,2330	8159235,6250	8159235,6250	677072,2330	749,5650	-9,86	759,4250



LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENADAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-229		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
51	M-229	POSTE	-16,38348052	-49,20238734	22S	677051,4880	8159202,4960	8159202,4960	677051,4880	756,9450	-9,86	766,8050
52	M-229	FUNDO	-16,38334458	-49,20235926	22S	677060,1570	8159244,2110	8159244,2110	677060,1570	747,2070	-9,86	757,0670
53	M-229	FUNDO	-16,38334997	-49,20235978	22S	677059,9890	8159242,5560	8159242,5560	677059,9890	747,4330	-9,86	757,2930
54	M-229	na	-16,38335006	-49,20235987	22S	677059,9600	8159242,5300	8159242,5300	677059,9600	747,3780	-9,86	757,2380
55	M-229	TN	-16,38333831	-49,20235968	22S	677060,0490	8159246,1420	8159246,1420	677060,0490	749,1460	-9,86	759,0060
56	M-229	TN	-16,38358181	-49,20240121	22S	677047,1200	8159171,3920	8159171,3920	677047,1200	753,6540	-9,86	763,5140
57	M-229	FUNDO	-16,38340452	-49,20261221	22S	676985,0440	8159226,4100	8159226,4100	676985,0440	748,2900	-9,86	758,1500
58	M-229	FUNDO	-16,38340022	-49,20261399	22S	676984,5300	8159227,7350	8159227,7350	676984,5300	748,2560	-9,86	758,1160
59	M-229	TN	-16,38350462	-49,20239181	22S	677050,1030	8159195,0980	8159195,0980	677050,1030	757,2580	-9,86	767,1180
60	M-229	TN	-16,38335024	-49,20235898	22S	677060,2250	8159242,4710	8159242,4710	677060,2250	749,1540	-9,86	759,0140
61	M-229	TN	-16,38340979	-49,20260789	22S	676986,3120	8159224,7780	8159224,7780	676986,3120	750,2120	-9,86	760,0720
62	M-229	na	-16,38340969	-49,20260697	22S	676986,5850	8159224,8070	8159224,8070	676986,5850	748,6950	-9,86	758,5550
84	M-229	TN	-16,38356628	-49,20224384	22S	677093,7940	8159175,7810	8159175,7810	677093,7940	756,2230	-9,86	766,0830
85	M-229	TN	-16,38356891	-49,20224809	22S	677092,5260	8159174,9820	8159174,9820	677092,5260	756,1200	-9,86	765,9800
86	M-229	BO	-16,38357484	-49,20225676	22S	677089,9430	8159173,1810	8159173,1810	677089,9430	756,2360	-9,86	766,0960
87	M-229	BO	-16,38358738	-49,20227632	22S	677084,1150	8159169,3740	8159169,3740	677084,1150	756,2710	-9,86	766,1310
88	M-229	TN	-16,3835887	-49,20228212	22S	677082,3920	8159168,9830	8159168,9830	677082,3920	756,1650	-9,86	766,0250
89	M-229	TN	-16,38359446	-49,20229217	22S	677079,3990	8159167,2370	8159167,2370	677079,3990	755,9800	-9,86	765,8400
90	M-229	POSTE	-16,38359985	-49,20229821	22S	677077,5950	8159165,5960	8159165,5960	677077,5950	755,8190	-9,86	765,6790
91	M-229	TN	-16,38360328	-49,20230093	22S	677076,7820	8159164,5480	8159164,5480	677076,7820	755,2620	-9,86	765,1220
92	M-229	TN	-16,38360708	-49,20230525	22S	677075,4900	8159163,3900	8159163,3900	677075,4900	755,8930	-9,86	765,7530
93	M-229	TN	-16,38361474	-49,20231568	22S	677072,3820	8159161,0620	8159161,0620	677072,3820	756,0620	-9,86	765,9220
94	M-229	BO	-16,38361604	-49,20231775	22S	677071,7630	8159160,6660	8159160,6660	677071,7630	756,0830	-9,86	765,9430
95	M-229	TN	-16,38355787	-49,20233193	22S	677067,7120	8159178,5830	8159178,5830	677067,7120	755,5430	-9,86	765,4030
96	M-229	TN	-16,38355605	-49,20232889	22S	677068,6160	8159179,1350	8159179,1350	677068,6160	755,8760	-9,86	765,7360



LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENADAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-229		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
97	M-229	TN	-16,38355968	-49,2023169	22S	677072,1600	8159177,9900	8159177,9900	677072,1600	756,2650	-9,86	766,1250
98	M-229	TN	-16,38356392	-49,2023111	22S	677073,8670	8159176,6700	8159176,6700	677073,8670	756,4190	-9,86	766,2790
99	M-229	TN	-16,3835872	-49,20229853	22S	677077,5330	8159169,4830	8159169,4830	677077,5330	756,1200	-9,86	765,9800
100	M-229	TN	-16,38357249	-49,20230418	22S	677075,8980	8159174,0190	8159174,0190	677075,8980	756,2570	-9,86	766,1170
101	M-229	TN	-16,38359264	-49,20229852	22S	677077,5220	8159167,8130	8159167,8130	677077,5220	756,0170	-9,86	765,8770
102	M-229	TN	-16,38359588	-49,20230237	22S	677076,3720	8159166,8240	8159166,8240	677076,3720	755,5490	-9,86	765,4090
103	M-229	FUNDO	-16,38332449	-49,20225906	22S	677089,9010	8159250,1420	8159250,1420	677089,9010	745,6660	-9,86	755,5260
104	M-229	TN	-16,38359489	-49,20230895	22S	677074,4260	8159167,1470	8159167,1470	677074,4260	755,1670	-9,86	765,0270
105	M-229	TN	-16,38358879	-49,20231662	22S	677072,1700	8159169,0410	8159169,0410	677072,1700	755,2390	-9,86	765,0990
106	M-229	TN	-16,3835909	-49,20231979	22S	677071,2240	8159168,4000	8159168,4000	677071,2240	755,7470	-9,86	765,6070
107	M-229	TN	-16,3835813	-49,20232022	22S	677071,1210	8159171,3510	8159171,3510	677071,1210	755,1110	-9,86	764,9710
108	M-229	TN	-16,38358262	-49,20232497	22S	677069,7100	8159170,9580	8159170,9580	677069,7100	755,6690	-9,86	765,5290
109	M-229	na	-16,38334268	-49,20230593	22S	677075,9640	8159244,6660	8159244,6660	677075,9640	746,2950	-9,86	756,1550
110	M-229	TN	-16,38357111	-49,2023313	22S	677067,8650	8159174,5110	8159174,5110	677067,8650	755,6330	-9,86	765,4930
111	M-229	TN	-16,38356556	-49,20232604	22S	677069,4360	8159176,2030	8159176,2030	677069,4360	755,1250	-9,86	764,9850
112	M-229	na	-16,38333108	-49,20230769	22S	677075,4720	8159248,2360	8159248,2360	677075,4720	746,2660	-9,86	756,1260
113	M-229	TN	-16,38357388	-49,20231348	22S	677073,1370	8159173,6140	8159173,6140	677073,1370	755,1850	-9,86	765,0450
114	M-229	TN	-16,38358075	-49,20230706	22S	677075,0230	8159171,4870	8159171,4870	677075,0230	755,1530	-9,86	765,0130
115	M-229	TN	-16,38331895	-49,20230625	22S	677075,9310	8159251,9600	8159251,9600	677075,9310	746,6700	-9,86	756,5300
116	M-229	TN	-16,38359238	-49,20230478	22S	677075,6670	8159167,9070	8159167,9070	677075,6670	755,1570	-9,86	765,0170
117	M-229	TN	-16,38359473	-49,20230787	22S	677074,7450	8159167,1920	8159167,1920	677074,7450	755,1410	-9,86	765,0010
118	M-229	BO	-16,38363055	-49,20233543	22S	677066,4880	8159156,2500	8159156,2500	677066,4880	756,0080	-9,86	765,8680
119	M-229	TN	-16,383639	-49,20234241	22S	677064,3970	8159153,6690	8159153,6690	677064,3970	755,9240	-9,86	765,7840
120	M-229	TN	-16,38364098	-49,20234601	22S	677063,3260	8159153,0700	8159153,0700	677063,3260	755,7830	-9,86	765,6430
121	M-229	FUNDO	-16,3833436	-49,20235131	22S	677062,5140	8159244,4950	8159244,4950	677062,5140	746,9720	-9,86	756,8320



LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENDAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-229		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
122	M-229	na	-16,3833437	-49,20235158	22S	677062,4340	8159244,4640	8159244,4640	677062,4340	747,1140	-9,86	756,9740
123	M-229	TN	-16,3835831	-49,20238954	22S	677050,5760	8159170,9690	8159170,9690	677050,5760	756,0160	-9,86	765,8760
124	M-229	TN	-16,38358484	-49,20239459	22S	677049,0740	8159170,4460	8159170,4460	677049,0740	755,3630	-9,86	765,2230
125	M-229	TN	-16,38335107	-49,20235015	22S	677062,8380	8159242,1940	8159242,1940	677062,8380	748,8410	-9,86	758,7010
126	M-229	TN	-16,38358945	-49,20240847	22S	677044,9490	8159169,0620	8159169,0620	677044,9490	753,1710	-9,86	763,0310
127	M-229	na	-16,38333919	-49,20235964	22S	677060,0580	8159245,8710	8159245,8710	677060,0580	747,3690	-9,86	757,2290
128	M-229	FUNDO	-16,38333926	-49,20235964	22S	677060,0580	8159245,8490	8159245,8490	677060,0580	747,2970	-9,86	757,1570
129	M-229	na	-16,38334462	-49,20235903	22S	677060,2250	8159244,2000	8159244,2000	677060,2250	747,3390	-9,86	757,1990
130	M-229	TN	-16,3835911	-49,2024827	22S	677022,9470	8159168,7370	8159168,7370	677022,9470	751,0270	-9,86	760,8870
131	M-229	TN	-16,3835535	-49,20244288	22S	677034,8430	8159180,1970	8159180,1970	677034,8430	752,5410	-9,86	762,4010
132	M-229	TN	-16,38355102	-49,20243644	22S	677036,7590	8159180,9450	8159180,9450	677036,7590	753,7900	-9,86	763,6500
133	M-229	TN	-16,3835306	-49,20242305	22S	677040,7780	8159187,1880	8159187,1880	677040,7780	757,0460	-9,86	766,9060
134	M-229	BO	-16,38352408	-49,20241504	22S	677043,1690	8159189,1740	8159189,1740	677043,1690	757,1180	-9,86	766,9780
135	M-229	BO	-16,38350961	-49,20239727	22S	677048,4720	8159193,5780	8159193,5780	677048,4720	757,2890	-9,86	767,1490
136	M-229	FUNDO	-16,38340958	-49,20260723	22S	676986,5080	8159224,8430	8159224,8430	676986,5080	748,4850	-9,86	758,3450
137	M-229	TN	-16,38349724	-49,20238275	22S	677052,8070	8159197,3440	8159197,3440	677052,8070	756,9290	-9,86	766,7890
138	M-229	TN	-16,38349466	-49,20237937	22S	677053,8130	8159198,1300	8159198,1300	677053,8130	756,4060	-9,86	766,2660
139	M-229	na	-16,3833999	-49,20261416	22S	676984,4800	8159227,8350	8159227,8350	676984,4800	748,6550	-9,86	758,5150
140	M-229	TN	-16,38348465	-49,20236583	22S	677057,8530	8159201,1720	8159201,1720	677057,8530	757,4390	-9,86	767,2990
141	M-229	BO	-16,38347924	-49,20235815	22S	677060,1400	8159202,8160	8159202,8160	677060,1400	757,6250	-9,86	767,4850
142	M-229	FUNDO	-16,383403	-49,20263087	22S	676979,5190	8159226,9210	8159226,9210	676979,5190	748,4050	-9,86	758,2650
143	M-229	TN	-16,38346018	-49,20233045	22S	677068,3990	8159208,6070	8159208,6070	677068,3990	757,4310	-9,86	767,2910
144	M-229	TN	-16,38345735	-49,20232598	22S	677069,7310	8159209,4660	8159209,4660	677069,7310	757,2700	-9,86	767,1300
145	M-229	TN	-16,38344088	-49,20229197	22S	677079,8510	8159214,4440	8159214,4440	677079,8510	750,7180	-9,86	760,5780
146	M-229	TN	-16,38341457	-49,20227994	22S	677083,4820	8159222,5020	8159222,5020	677083,4820	749,4900	-9,86	759,3500



LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENADAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-229		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
147	M-229	TN	-16,3833734	-49,20229543	22S	677078,9990	8159235,1960	8159235,1960	677078,9990	749,3170	-9,86	759,1770
148	M-229	TN	-16,38342368	-49,20261708	22S	676983,5520	8159220,5310	8159220,5310	676983,5520	748,9990	-9,86	758,8590
149	M-229	TN	-16,38336998	-49,20233355	22S	677067,7100	8159236,3420	8159236,3420	677067,7100	749,4610	-9,86	759,3210
150	M-229	TN	-16,38336414	-49,20234987	22S	677062,8900	8159238,1770	8159238,1770	677062,8900	750,1410	-9,86	760,0010
151	M-229	FUNDO	-16,38342599	-49,20263309	22S	676978,8040	8159219,8600	8159219,8600	676978,8040	748,4320	-9,86	758,2920
152	M-229	NATUBOARMIC	-16,38334523	-49,20236225	22S	677059,2670	8159244,0210	8159244,0210	677059,2670	747,4800	-9,86	757,3400
153	M-229	TN	-16,38334564	-49,20236559	22S	677058,2790	8159243,9020	8159243,9020	677058,2790	750,9430	-9,86	760,8030
154	M-229	na	-16,3834155	-49,20263794	22S	676977,3920	8159223,0980	8159223,0980	676977,3920	748,6970	-9,86	758,5570
155	M-229	FUNDO	-16,38341534	-49,20263815	22S	676977,3300	8159223,1480	8159223,1480	676977,3300	748,5360	-9,86	758,3960
156	M-229	TN	-16,38333043	-49,20235889	22S	677060,3030	8159248,5620	8159248,5620	677060,3030	750,1940	-9,86	760,0540
157	M-229	TN	-16,38352737	-49,20215141	22S	677121,2830	8159187,5140	8159187,5140	677121,2830	750,6280	-9,86	760,4880
158	M-229	GABIAO	-16,38333752	-49,20235925	22S	677060,1760	8159246,3820	8159246,3820	677060,1760	747,1620	-9,86	757,0220
159	M-229	GABIAO	-16,3833506	-49,20235655	22S	677060,9450	8159242,3550	8159242,3550	677060,9450	747,2050	-9,86	757,0650
160	M-229	TN	-16,38337496	-49,20239267	22S	677050,1790	8159234,9570	8159234,9570	677050,1790	758,3440	-9,86	768,2040
161	M-229	na	-16,38342591	-49,20264524	22S	676975,2030	8159219,9170	8159219,9170	676975,2030	748,7370	-9,86	758,5970
162	M-229	BO	-16,38339369	-49,20242204	22S	677041,4270	8159229,2700	8159229,2700	677041,4270	759,0320	-9,86	768,8920
163	M-229	TN	-16,38339947	-49,20242943	22S	677039,2220	8159227,5130	8159227,5130	677039,2220	758,9430	-9,86	768,8030
164	M-229	TN	-16,38343455	-49,20264559	22S	676975,0770	8159217,2620	8159217,2620	676975,0770	749,6130	-9,86	759,4730
165	M-229	TN	-16,3834198	-49,2024576	22S	677030,8230	8159221,3310	8159221,3310	677030,8230	758,7300	-9,86	768,5900
166	M-229	BO	-16,38342369	-49,20246238	22S	677029,3970	8159220,1470	8159220,1470	677029,3970	758,8050	-9,86	768,6650
167	M-229	BO	-16,3834385	-49,20248033	22S	677024,0400	8159215,6410	8159215,6410	677024,0400	758,6320	-9,86	768,4920
168	M-229	TN	-16,38344497	-49,20248918	22S	677021,4000	8159213,6730	8159213,6730	677021,4000	758,3200	-9,86	768,1800
169	M-229	TN	-16,38345118	-49,20249668	22S	677019,1620	8159211,7820	8159211,7820	677019,1620	758,2050	-9,86	768,0650
170	M-229	TN	-16,38346064	-49,20250604	22S	677016,3630	8159208,8990	8159208,8990	677016,3630	757,7330	-9,86	767,5930
171	M-229	TN	-16,38348256	-49,20253143	22S	677008,7840	8159202,2230	8159202,2230	677008,7840	752,2470	-9,86	762,1070



LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENADAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-229		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
172	M-229	TN	-16,38343709	-49,20259735	22S	676989,3660	8159216,3610	8159216,3610	676989,3660	751,3790	-9,86	761,2390
173	M-229	TN	-16,38342903	-49,20260477	22S	676987,1880	8159218,8570	8159218,8570	676987,1880	751,2550	-9,86	761,1150
174	M-229	TN	-16,38342957	-49,20260897	22S	676985,9410	8159218,7020	8159218,7020	676985,9410	750,3510	-9,86	760,2110
175	M-229	NA	-16,38342239	-49,20262773	22S	676980,4010	8159220,9550	8159220,9550	676980,4010	748,5070	-9,86	758,3670
179	M-229	NA	-16,38340284	-49,20262845	22S	676980,2380	8159226,9670	8159226,9670	676980,2380	748,3850	-9,86	758,2450
181	M-229	TN	-16,38339768	-49,20261314	22S	676984,7880	8159228,5140	8159228,5140	676984,7880	751,9010	-9,86	761,7610
182	M-229	TN	-16,38333335	-49,20258873	22S	676992,1840	8159248,2300	8159248,2300	676992,1840	760,7960	-9,86	770,6560
183	M-229	TN	-16,38333324	-49,20258875	22S	676992,1790	8159248,2610	8159248,2610	676992,1790	760,7940	-9,86	770,6540
184	M-229	TN	-16,38334301	-49,2026006	22S	676988,6440	8159245,2890	8159245,2890	676988,6440	760,7770	-9,86	770,6370
185	M-229	TN	-16,38334563	-49,20260843	22S	676986,3160	8159244,5020	8159244,5020	676986,3160	760,3650	-9,86	770,2250
186	M-229	TN	-16,38332595	-49,20258118	22S	676994,4400	8159250,4850	8159250,4850	676994,4400	761,2230	-9,86	771,0830
187	M-229	BO	-16,38332086	-49,20257465	22S	676996,3900	8159252,0320	8159252,0320	676996,3900	761,3440	-9,86	771,2040
188	M-229	BO	-16,38330773	-49,20255446	22S	677002,4070	8159256,0210	8159256,0210	677002,4070	761,5340	-9,86	771,3940
189	M-229	TN	-16,38330306	-49,20254834	22S	677004,2320	8159257,4400	8159257,4400	677004,2320	761,5230	-9,86	771,3830
190	M-229	TN	-16,3832928	-49,20253611	22S	677007,8820	8159260,5630	8159260,5630	677007,8820	760,4900	-9,86	770,3500
191	M-229	TN	-16,38328104	-49,20251778	22S	677013,3440	8159264,1330	8159264,1330	677013,3440	761,7030	-9,86	771,5630
192	M-229	BO	-16,3832783	-49,20250927	22S	677015,8720	8159264,9550	8159264,9550	677015,8720	761,7840	-9,86	771,6440
193	M-229	BO	-16,38326451	-49,20249149	22S	677021,1760	8159269,1510	8159269,1510	677021,1760	761,8040	-9,86	771,6640
194	M-229	TN	-16,3832583	-49,20248184	22S	677024,0520	8159271,0340	8159271,0340	677024,0520	761,6540	-9,86	771,5140
195	M-229	TN	-16,3832492	-49,20246651	22S	677028,6180	8159273,7940	8159273,7940	677028,6180	759,8010	-9,86	769,6610
198	M-229	TN	-16,38352737	-49,20215141	22S	677121,2830	8159187,5140	8159187,5140	677121,2830	750,6280	-9,86	760,4880
199	M-229	TN	-16,38354606	-49,20218279	22S	677111,9370	8159181,8450	8159181,8450	677111,9370	751,0110	-9,86	760,8710
200	M-229	TN	-16,38354942	-49,20219448	22S	677108,4620	8159180,8410	8159180,8410	677108,4620	751,1580	-9,86	761,0180
202	M-229	TN	-16,38354606	-49,20218279	22S	677111,9370	8159181,8450	8159181,8450	677111,9370	751,0110	-9,86	760,8710
203	M-229	TN	-16,38354942	-49,20219448	22S	677108,4620	8159180,8410	8159180,8410	677108,4620	751,1580	-9,86	761,0180



LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-229		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
2528	M-229	TN	-16,38305321	-49,20262784	22S	676981,3090	8159334,4380	8159334,4380	676981,3090	766,4720	-9,86	776,3320
2529	M-229	ACT	-16,38305913	-49,20263536	22S	676979,0660	8159332,6360	8159332,6360	676979,0660	766,3450	-9,86	776,2050
2530	M-229	BO	-16,38306354	-49,20264135	22S	676977,2800	8159331,2960	8159331,2960	676977,2800	766,5320	-9,86	776,3920
2531	M-229	BO	-16,38307562	-49,20266086	22S	676971,4680	8159327,6290	8159327,6290	676971,4680	766,5470	-9,86	776,4070
2532	M-229	ACT	-16,38308008	-49,20266781	22S	676969,3970	8159326,2740	8159326,2740	676969,3970	766,4160	-9,86	776,2760
2533	M-229	TN	-16,38308223	-49,20267268	22S	676967,9480	8159325,6260	8159325,6260	676967,9480	766,2650	-9,86	776,1250
2534	M-229	TN	-16,38309568	-49,20269149	22S	676962,3380	8159321,5380	8159321,5380	676962,3380	765,1680	-9,86	775,0280
2535	M-229	TN	-16,38310654	-49,20270529	22S	676958,2220	8159318,2350	8159318,2350	676958,2220	765,9150	-9,86	775,7750
2536	M-229	ACT	-16,38311013	-49,20271029	22S	676956,7310	8159317,1420	8159317,1420	676956,7310	766,0130	-9,86	775,8730
2537	M-229	BO	-16,38311365	-49,20271472	22S	676955,4110	8159316,0720	8159316,0720	676955,4110	766,0390	-9,86	775,8990
2538	M-229	BO	-16,38312863	-49,20273247	22S	676950,1130	8159311,5120	8159311,5120	676950,1130	765,8820	-9,86	775,7420
2539	M-229	ACT	-16,38313388	-49,2027391	22S	676948,1330	8159309,9120	8159309,9120	676948,1330	765,7700	-9,86	775,6300
2540	M-229	TN	-16,38314047	-49,20274473	22S	676946,4490	8159307,9020	8159307,9020	676946,4490	765,8680	-9,86	775,7280
2541	M-229	TN	-16,38321857	-49,20268034	22S	676965,3290	8159283,7350	8159283,7350	676965,3290	764,7410	-9,86	774,6010
2542	M-229	ACT	-16,38321192	-49,20267293	22S	676967,5440	8159285,7620	8159285,7620	676967,5440	763,9090	-9,86	773,7690
2543	M-229	BO	-16,38320663	-49,20266634	22S	676969,5100	8159287,3720	8159287,3720	676969,5100	764,0310	-9,86	773,8910
2544	M-229	BO	-16,38319217	-49,20264824	22S	676974,9090	8159291,7730	8159291,7730	676974,9090	764,2770	-9,86	774,1370
2545	M-229	ACT	-16,38318835	-49,20264429	22S	676976,0910	8159292,9370	8159292,9370	676976,0910	764,2730	-9,86	774,1330
2546	M-229	TN	-16,38318516	-49,2026402	22S	676977,3090	8159293,9080	8159293,9080	676977,3090	764,2340	-9,86	774,0940
2547	M-229	TN	-16,38317617	-49,20262786	22S	676980,9900	8159296,6410	8159296,6410	676980,9900	763,5000	-9,86	773,3600
2548	M-229	TN	-16,38316266	-49,2026094	22S	676986,4940	8159300,7490	8159300,7490	676986,4940	764,4940	-9,86	774,3540
2549	M-229	BO	-16,38315638	-49,20260049	22S	676989,1500	8159302,6570	8159302,6570	676989,1500	764,7050	-9,86	774,5650
2550	M-229	BO	-16,38314204	-49,2025815	22S	676994,8150	8159307,0160	8159307,0160	676994,8150	764,6390	-9,86	774,4990
2551	M-229	ACT	-16,38314014	-49,20257867	22S	676995,6590	8159307,5960	8159307,5960	676995,6590	764,7480	-9,86	774,6080
2552	M-229	ACT	-16,38313728	-49,20257585	22S	676996,5030	8159308,4680	8159308,4680	676996,5030	764,4750	-9,86	774,3350



LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENDAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-229		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
2553	M-229	TN	-16,38313172	-49,20256911	22S	676998,5130	8159310,1580	8159310,1580	676998,5130	765,0900	-9,86	774,9500
2554	M-229	PT	-16,38313979	-49,20267231	22S	676967,9100	8159307,9320	8159307,9320	676967,9100	765,0580	-9,86	774,9180
3348	M-229	E	-16,38338803	-49,20238686	22S	677051,8660	8159230,9250	8159230,9250	677051,8660	758,7160	-9,86	768,5760

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
63	M-231	TN	-16,35531921	-49,22141053	22S	673825,379	8164197,103	8164197,103	673825,379	755,531	-9,74	765,271
64	M-231	TN	-16,35525222	-49,22179228	22S	673712,396	8164218,613	8164218,613	673712,396	754,533	-9,74	764,273
65	M-231	TN	-16,35523572	-49,22179516	22S	673711,583	8164223,693	8164223,693	673711,583	754,482	-9,74	764,222
66	M-231	TN	-16,35521814	-49,22179587	22S	673711,416	8164229,098	8164229,098	673711,416	754,719	-9,74	764,459
67	M-231	TN	-16,35519121	-49,22168214	22S	673745,194	8164237,1	8164237,1	673745,194	753,224	-9,74	762,964
68	M-231	BO	-16,35516586	-49,22166147	22S	673751,384	8164244,844	8164244,844	673751,384	753,427	-9,74	763,167
69	M-231	POSTE	-16,35516808	-49,22164443	22S	673756,428	8164244,119	8164244,119	673756,428	753,272	-9,74	763,012
70	M-231	TN	-16,35516178	-49,22165468	22S	673753,407	8164246,082	8164246,082	673753,407	753,304	-9,74	763,044
71	M-231	TN	-16,3551556	-49,22164958	22S	673754,934	8164247,968	8164247,968	673754,934	752,127	-9,74	761,867
72	M-231	BO	-16,35514778	-49,221641	22S	673757,495	8164250,351	8164250,351	673757,495	752,658	-9,74	762,398
73	M-231	BO	-16,35513148	-49,22162364	22S	673762,683	8164255,321	8164255,321	673762,683	752,676	-9,74	762,416
82	M-231	TN	-16,35509417	-49,22162134	22S	673763,456	8164266,783	8164266,783	673763,456	751,968	-9,74	761,708
176	M-231	BO	-16,3551833	-49,22167526	22S	673747,253	8164239,517	8164239,517	673747,253	753,369	-9,74	763,109
177	M-231	TN	-16,35512405	-49,22161605	22S	673764,951	8164257,586	8164257,586	673764,951	752,673	-9,74	762,413
178	M-231	TN	-16,35508728	-49,22161407	22S	673765,628	8164268,883	8164268,883	673765,628	752,202	-9,74	761,942
180	M-231	TN	-16,35508978	-49,22160839	22S	673767,308	8164268,102	8164268,102	673767,308	752,032	-9,74	761,772
196	M-231	TN	-16,35508509	-49,22160553	22S	673768,166	8164269,537	8164269,537	673768,166	751,442	-9,74	761,182
197	M-231	TN	-16,3550757	-49,22160554	22S	673768,188	8164272,422	8164272,422	673768,188	751,483	-9,74	761,223
201	M-231	TN	-16,35506828	-49,22160278	22S	673769,022	8164274,698	8164274,698	673769,022	750,84	-9,74	760,58
204	M-231	TN	-16,35506883	-49,22161727	22S	673764,728	8164274,562	8164274,562	673764,728	749,112	-9,74	758,852
205	M-231	NA	-16,35506636	-49,22162154	22S	673763,469	8164275,331	8164275,331	673763,469	748,121	-9,74	757,861
206	M-231	NA	-16,35507672	-49,22162615	22S	673762,075	8164272,158	8164272,158	673762,075	748,912	-9,74	758,652
207	M-231	TN	-16,35507269	-49,22163971	22S	673758,067	8164273,43	8164273,43	673758,067	749,843	-9,74	759,583

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
208	M-231	NA	-16,35504896	-49,22163094	22S	673760,725	8164280,705	8164280,705	673760,725	748,331	-9,74	758,071
209	M-231	TN	-16,35504564	-49,22164	22S	673758,049	8164281,746	8164281,746	673758,049	749,316	-9,74	759,056
210	M-231	TN	-16,35506123	-49,22164266	22S	673757,219	8164276,961	8164276,961	673757,219	749,659	-9,74	759,399
211	M-231	BO	-16,35537436	-49,22136964	22S	673837,361	8164180,05	8164180,05	673837,361	756,366	-9,74	766,106
212	M-231	TN	-16,35507488	-49,22165809	22S	673752,614	8164272,801	8164272,801	673752,614	752,608	-9,74	762,348
213	M-231	TN	-16,3550861	-49,22164807	22S	673755,555	8164269,327	8164269,327	673755,555	752,341	-9,74	762,081
214	M-231	TN	-16,3550923	-49,22164024	22S	673757,861	8164267,405	8164267,405	673757,861	752,331	-9,74	762,071
215	M-231	TN	-16,35509369	-49,22163171	22S	673760,384	8164266,956	8164266,956	673760,384	752,234	-9,74	761,974
216	M-231	TN	-16,35509349	-49,22162649	22S	673761,934	8164267,004	8164267,004	673761,934	752,07	-9,74	761,81
217	M-231	CERCA	-16,35501312	-49,22169961	22S	673740,461	8164291,884	8164291,884	673740,461	750,22	-9,74	759,96
218	M-231	TN	-16,35501906	-49,22170449	22S	673738,999	8164290,07	8164290,07	673738,999	751,969	-9,74	761,709
219	M-231	TN	-16,35502504	-49,22171098	22S	673737,061	8164288,248	8164288,248	673737,061	752,494	-9,74	762,234
220	M-231	BO	-16,35503566	-49,22172342	22S	673733,347	8164285,013	8164285,013	673733,347	752,82	-9,74	762,56
224	M-231	BO	-16,35505267	-49,22173989	22S	673728,423	8164279,826	8164279,826	673728,423	752,863	-9,74	762,603
228	M-231	BO	-16,35539115	-49,22138679	22S	673832,236	8164174,931	8164174,931	673832,236	756,381	-9,74	766,121
232	M-231	TN	-16,35505922	-49,22174718	22S	673726,246	8164277,829	8164277,829	673726,246	752,68	-9,74	762,42
237	M-231	POSTE	-16,35506323	-49,22175159	22S	673724,927	8164276,607	8164276,607	673724,927	753,269	-9,74	763,009
243	M-231	TN	-16,35506593	-49,22175539	22S	673723,795	8164275,786	8164275,786	673723,795	753,648	-9,74	763,388
247	M-231	BO	-16,35507014	-49,22176089	22S	673722,156	8164274,507	8164274,507	673722,156	753,535	-9,74	763,275
251	M-231	BO	-16,35508639	-49,22177672	22S	673717,422	8164269,55	8164269,55	673717,422	753,396	-9,74	763,136
255	M-231	TN	-16,35510235	-49,22179191	22S	673712,88	8164264,679	8164264,679	673712,88	753,408	-9,74	763,148
261	M-231	TN	-16,35511008	-49,22179397	22S	673712,251	8164262,31	8164262,31	673712,251	754,123	-9,74	763,863
266	M-231	ALB	-16,35512019	-49,22180295	22S	673709,562	8164259,224	8164259,224	673709,562	754,002	-9,74	763,742

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
273	M-231	ALB	-16,35512925	-49,22179385	22S	673712,237	8164256,415	8164256,415	673712,237	754,027	-9,74	763,767
279	M-231	POSTE	-16,35512752	-49,22178204	22S	673715,744	8164256,92	8164256,92	673715,744	753,918	-9,74	763,658
283	M-231	TN	-16,35539856	-49,22139253	22S	673830,515	8164172,669	8164172,669	673830,515	756,26	-9,74	766
295	M-231	ACE	-16,35510976	-49,22178362	22S	673715,318	8164262,382	8164262,382	673715,318	753,342	-9,74	763,082
301	M-231	ACE	-16,35511892	-49,22178037	22S	673716,26	8164259,56	8164259,56	673716,26	753,561	-9,74	763,301
305	M-231	ACE	-16,35512727	-49,22177674	22S	673717,314	8164256,984	8164256,984	673717,314	753,808	-9,74	763,548
312	M-231	ACE	-16,35513667	-49,22177464	22S	673717,913	8164254,089	8164254,089	673717,913	753,808	-9,74	763,548
319	M-231	ACE	-16,35514837	-49,22177495	22S	673717,792	8164250,494	8164250,494	673717,792	753,949	-9,74	763,689
324	M-231	ACE	-16,35516067	-49,22178185	22S	673715,715	8164246,729	8164246,729	673715,715	754,373	-9,74	764,113
330	M-231	ACE	-16,35516113	-49,22178223	22S	673715,603	8164246,588	8164246,588	673715,603	754,217	-9,74	763,957
333	M-231	ACE	-16,35516861	-49,22176073	22S	673721,955	8164244,237	8164244,237	673721,955	754,024	-9,74	763,764
339	M-231	ACE	-16,35515637	-49,22175693	22S	673723,112	8164247,991	8164247,991	673723,112	753,829	-9,74	763,569
345	M-231	TN	-16,35540717	-49,22140212	22S	673827,653	8164170,043	8164170,043	673827,653	756,42	-9,74	766,16
351	M-231	ACE	-16,35514706	-49,22175615	22S	673723,369	8164250,852	8164250,852	673723,369	753,707	-9,74	763,447
364	M-231	ACE	-16,35513365	-49,22175814	22S	673722,812	8164254,977	8164254,977	673722,812	753,744	-9,74	763,484
371	M-231	ACE	-16,35512809	-49,22175964	22S	673722,381	8164256,69	8164256,69	673722,381	753,515	-9,74	763,255
375	M-231	TN	-16,35506946	-49,22164255	22S	673757,233	8164274,43	8164274,43	673757,233	751,73	-9,74	761,47
379	M-231	ALB	-16,35506574	-49,22185954	22S	673692,927	8164276,096	8164276,096	673692,927	754,55	-9,74	764,29
382	M-231	TN	-16,35507054	-49,22163408	22S	673759,74	8164274,078	8164274,078	673759,74	750,327	-9,74	760,067
385	M-231	POSTE	-16,35505774	-49,22185266	22S	673694,986	8164278,539	8164278,539	673694,986	754,528	-9,74	764,268
388	M-231	TN	-16,35505283	-49,22184836	22S	673696,271	8164280,037	8164280,037	673696,271	754,3	-9,74	764,04
389	M-231	FUNDO	-16,35507059	-49,22163404	22S	673759,751	8164274,062	8164274,062	673759,751	749,882	-9,74	759,622
394	M-231	TN	-16,35504918	-49,22184579	22S	673697,044	8164281,152	8164281,152	673697,044	753,509	-9,74	763,249

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
395	M-231	FUNDO	-16,35507336	-49,2216306	22S	673760,764	8164273,201	8164273,201	673760,764	749,385	-9,74	759,125
398	M-231	FUNDO	-16,35507292	-49,22163039	22S	673760,828	8164273,336	8164273,336	673760,828	748,944	-9,74	758,684
402	M-231	BO	-16,35541075	-49,22140582	22S	673826,546	8164168,954	8164168,954	673826,546	756,482	-9,74	766,222
408	M-231	BO	-16,35503424	-49,22183096	22S	673701,476	8164285,71	8164285,71	673701,476	753,544	-9,74	763,284
409	M-231	na	-16,3550735	-49,22163036	22S	673760,836	8164273,16	8164273,16	673760,836	750,303	-9,74	760,043
414	M-231	BO	-16,35501579	-49,22181757	22S	673705,49	8164291,349	8164291,349	673705,49	753,696	-9,74	763,436
415	M-231	na	-16,35507508	-49,22162563	22S	673762,234	8164272,661	8164272,661	673762,234	750,264	-9,74	760,004
419	M-231	TN	-16,3550109	-49,2218126	22S	673706,976	8164292,841	8164292,841	673706,976	753,74	-9,74	763,48
423	M-231	FUNDO	-16,3550755	-49,22162562	22S	673762,236	8164272,532	8164272,532	673762,236	750,202	-9,74	759,942
427	M-231	TN	-16,35500752	-49,22180685	22S	673708,688	8164293,864	8164293,864	673708,688	752,885	-9,74	762,625
430	M-231	TN	-16,35500419	-49,22180264	22S	673709,946	8164294,877	8164294,877	673709,946	752,896	-9,74	762,636
431	M-231	TN	-16,35507759	-49,22161963	22S	673764,007	8164271,877	8164271,877	673764,007	750,672	-9,74	760,412
436	M-231	TN	-16,35505676	-49,22163743	22S	673758,781	8164278,32	8164278,32	673758,781	751,047	-9,74	760,787
440	M-231	na	-16,35505586	-49,22163229	22S	673760,308	8164278,587	8164278,587	673760,308	750,477	-9,74	760,217
444	M-231	FUNDO	-16,35505586	-49,22163258	22S	673760,221	8164278,588	8164278,588	673760,221	750,073	-9,74	759,813
447	M-231	BO	-16,35500485	-49,22178996	22S	673713,7	8164294,644	8164294,644	673713,7	752,981	-9,74	762,721
448	M-231	FUNDO	-16,35505753	-49,22162824	22S	673761,504	8164278,064	8164278,064	673761,504	749,886	-9,74	759,626
451	M-231	BO	-16,35498801	-49,22177367	22S	673718,573	8164299,783	8164299,783	673718,573	752,984	-9,74	762,724
453	M-231	na	-16,35505729	-49,22162821	22S	673761,512	8164278,137	8164278,137	673761,512	750,279	-9,74	760,019
456	M-231	POSTE	-16,35498417	-49,22175657	22S	673723,65	8164300,921	8164300,921	673723,65	752,832	-9,74	762,572
459	M-231	BO	-16,35542868	-49,22141938	22S	673822,483	8164163,475	8164163,475	673822,483	756,398	-9,74	766,138
463	M-231	TN	-16,35497769	-49,22176386	22S	673721,504	8164302,931	8164302,931	673721,504	752,741	-9,74	762,481
464	M-231	na	-16,35505831	-49,22162497	22S	673762,472	8164277,814	8164277,814	673762,472	750,08	-9,74	759,82

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
467	M-231	FUNDO	-16,35505819	-49,22162342	22S	673762,932	8164277,848	8164277,848	673762,932	749,951	-9,74	759,691
471	M-231	CERCA	-16,35496347	-49,22175028	22S	673725,567	8164307,269	8164307,269	673725,567	751,74	-9,74	761,48
474	M-231	TN	-16,35505954	-49,2216221	22S	673763,32	8164277,429	8164277,429	673763,32	750,297	-9,74	760,037
477	M-231	CERCA	-16,35488647	-49,22182918	22S	673702,373	8164331,126	8164331,126	673702,373	752,902	-9,74	762,642
480	M-231	TN	-16,35489694	-49,22184684	22S	673697,11	8164327,953	8164327,953	673697,11	753,038	-9,74	762,778
481	M-231	TN	-16,35503759	-49,22162918	22S	673761,275	8164284,194	8164284,194	673761,275	750,788	-9,74	760,528
486	M-231	BO	-16,35490836	-49,221857	22S	673694,072	8164324,467	8164324,467	673694,072	753,283	-9,74	763,023
487	M-231	na	-16,35503865	-49,22162445	22S	673762,674	8164283,856	8164283,856	673762,674	750,274	-9,74	760,014
490	M-231	BO	-16,35492431	-49,22187355	22S	673689,125	8164319,602	8164319,602	673689,125	753,362	-9,74	763,102
491	M-231	FUNDO	-16,35503888	-49,2216243	22S	673762,717	8164283,786	8164283,786	673762,717	749,975	-9,74	759,715
495	M-231	FUNDO	-16,35503945	-49,22162203	22S	673763,39	8164283,604	8164283,604	673763,39	750,102	-9,74	759,842
496	M-231	TN	-16,35493212	-49,22188118	22S	673686,846	8164317,22	8164317,22	673686,846	753,204	-9,74	762,944
499	M-231	POSTE	-16,35496057	-49,22185765	22S	673693,747	8164308,419	8164308,419	673693,747	753,357	-9,74	763,097
500	M-231	na	-16,3550387	-49,2216222	22S	673763,341	8164283,836	8164283,836	673763,341	750,389	-9,74	760,129
503	M-231	na	-16,35504025	-49,22161886	22S	673764,326	8164283,351	8164283,351	673764,326	750,221	-9,74	759,961
506	M-231	TN	-16,3549378	-49,2218859	22S	673685,433	8164315,485	8164315,485	673685,433	754,004	-9,74	763,744
507	M-231	FUNDO	-16,35504008	-49,2216188	22S	673764,345	8164283,405	8164283,405	673764,345	750,05	-9,74	759,79
511	M-231	TN	-16,35543815	-49,22142799	22S	673819,908	8164160,584	8164160,584	673819,908	756,414	-9,74	766,154
514	M-231	BO	-16,35494237	-49,22189381	22S	673683,075	8164314,1	8164314,1	673683,075	753,87	-9,74	763,61
515	M-231	TN	-16,3550412	-49,22161885	22S	673764,329	8164283,061	8164283,061	673764,329	750,3	-9,74	760,04
518	M-231	BO	-16,35495884	-49,22190962	22S	673678,349	8164309,076	8164309,076	673678,349	753,743	-9,74	763,483
519	M-231	TN	-16,35501201	-49,2216289	22S	673761,423	8164292,056	8164292,056	673761,423	750,759	-9,74	760,499
521	M-231	na	-16,35501327	-49,22162581	22S	673762,333	8164291,662	8164291,662	673762,333	750,272	-9,74	760,012

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
524	M-231	TN	-16,35497208	-49,22192436	22S	673673,946	8164305,04	8164305,04	673673,946	753,598	-9,74	763,338
526	M-231	FUNDO	-16,35501337	-49,22162596	22S	673762,29	8164291,632	8164291,632	673762,29	749,909	-9,74	759,649
527	M-231	TN	-16,35497541	-49,22192845	22S	673672,726	8164304,027	8164304,027	673672,726	754,431	-9,74	764,171
530	M-231	FUNDO	-16,35501455	-49,22162228	22S	673763,378	8164291,261	8164291,261	673763,378	750,101	-9,74	759,841
532	M-231	POSTE	-16,3549822	-49,22193273	22S	673671,442	8164301,952	8164301,952	673671,442	755,053	-9,74	764,793
534	M-231	ALB	-16,35488881	-49,22204026	22S	673639,803	8164330,917	8164330,917	673639,803	756,118	-9,74	765,858
535	M-231	na	-16,35501387	-49,22162211	22S	673763,429	8164291,468	8164291,468	673763,429	750,326	-9,74	760,066
538	M-231	POSTE	-16,35488528	-49,22203655	22S	673640,909	8164331,993	8164331,993	673640,909	755,636	-9,74	765,376
539	M-231	na	-16,35501336	-49,2216204	22S	673763,938	8164291,622	8164291,622	673763,938	750,198	-9,74	759,938
542	M-231	TN	-16,35488162	-49,22203331	22S	673641,88	8164333,109	8164333,109	673641,88	755,201	-9,74	764,941
543	M-231	FUNDO	-16,3550139	-49,2216199	22S	673764,085	8164291,453	8164291,453	673764,085	750,019	-9,74	759,759
546	M-231	TN	-16,35487443	-49,22202663	22S	673643,879	8164335,303	8164335,303	673643,879	753,862	-9,74	763,602
547	M-231	TN	-16,35501302	-49,22161721	22S	673764,883	8164291,718	8164291,718	673764,883	750,695	-9,74	760,435
550	M-231	BO	-16,35485969	-49,22201332	22S	673647,86	8164339,802	8164339,802	673647,86	754,034	-9,74	763,774
551	M-231	TN	-16,35524728	-49,22167194	22S	673748,078	8164219,843	8164219,843	673748,078	750,549	-9,74	760,289
554	M-231	TN	-16,35539212	-49,2214827	22S	673803,805	8164174,864	8164174,864	673803,805	755,649	-9,74	765,389
560	M-231	TN	-16,35545171	-49,2214399	22S	673816,344	8164156,445	8164156,445	673816,344	757,16	-9,74	766,9
562	M-231	BO	-16,35484265	-49,22199775	22S	673652,516	8164345,004	8164345,004	673652,516	754,194	-9,74	763,934
563	M-231	na	-16,35524735	-49,22167394	22S	673747,484	8164219,825	8164219,825	673747,484	750,347	-9,74	760,087
565	M-231	TN	-16,35483782	-49,22199297	22S	673653,947	8164346,476	8164346,476	673653,947	754,256	-9,74	763,996
566	M-231	FUNDO	-16,35524718	-49,22167398	22S	673747,474	8164219,877	8164219,877	673747,474	749,911	-9,74	759,651
568	M-231	TN	-16,35483367	-49,22198639	22S	673655,905	8164347,735	8164347,735	673655,905	753,264	-9,74	763,004
569	M-231	FUNDO	-16,35524622	-49,22167686	22S	673746,623	8164220,178	8164220,178	673746,623	749,942	-9,74	759,682

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
573	M-231	BO	-16,35482488	-49,22197687	22S	673658,75	8164350,416	8164350,416	673658,75	753,618	-9,74	763,358
574	M-231	na	-16,35524668	-49,22167663	22S	673746,69	8164220,038	8164220,038	673746,69	750,337	-9,74	760,077
577	M-231	BO	-16,35480827	-49,22196134	22S	673663,394	8164355,482	8164355,482	673663,394	753,54	-9,74	763,28
578	M-231	na	-16,35524546	-49,22167934	22S	673745,888	8164220,42	8164220,42	673745,888	750,288	-9,74	760,028
580	M-231	FUNDO	-16,35524452	-49,22167941	22S	673745,869	8164220,707	8164220,707	673745,869	750,206	-9,74	759,946
583	M-231	TN	-16,35480019	-49,22195407	22S	673665,57	8164357,948	8164357,948	673665,57	753,449	-9,74	763,189
585	M-231	TN	-16,35524503	-49,22168197	22S	673745,111	8164220,556	8164220,556	673745,111	750,69	-9,74	760,43
586	M-231	TN	-16,35478812	-49,22194435	22S	673668,482	8164361,637	8164361,637	673668,482	752,998	-9,74	762,738
590	M-231	TN	-16,35526296	-49,22167273	22S	673747,804	8164215,025	8164215,025	673747,804	750,95	-9,74	760,69
592	M-231	cerca	-16,35474119	-49,22198247	22S	673657,3	8164376,153	8164376,153	673657,3	752,695	-9,74	762,435
593	M-231	na	-16,35526069	-49,2216751	22S	673747,108	8164215,726	8164215,726	673747,108	750,406	-9,74	760,146
596	M-231	CERCA	-16,35467645	-49,22204702	22S	673638,329	8164396,207	8164396,207	673638,329	752,604	-9,74	762,344
597	M-231	FUNDO	-16,35526065	-49,22167546	22S	673747,002	8164215,742	8164215,742	673747,002	749,868	-9,74	759,608
601	M-231	POSTE	-16,35537541	-49,22142714	22S	673820,317	8164179,868	8164179,868	673820,317	755,806	-9,74	765,546
605	M-231	FUNDO	-16,35525998	-49,22167623	22S	673746,775	8164215,947	8164215,947	673746,775	749,822	-9,74	759,562
607	M-231	TN	-16,35468631	-49,22205206	22S	673636,808	8164393,191	8164393,191	673636,808	753,355	-9,74	763,095
608	M-231	na	-16,35525998	-49,22167625	22S	673746,767	8164215,947	8164215,947	673746,767	750,412	-9,74	760,152
611	M-231	TN	-16,35469593	-49,22206106	22S	673634,118	8164390,253	8164390,253	673634,118	753,704	-9,74	763,444
613	M-231	BO	-16,35470389	-49,22206965	22S	673631,551	8164387,829	8164387,829	673631,551	753,777	-9,74	763,517
614	M-231	na	-16,35525833	-49,22167796	22S	673746,264	8164216,459	8164216,459	673746,264	750,487	-9,74	760,227
617	M-231	BO	-16,35471991	-49,22208552	22S	673626,807	8164382,941	8164382,941	673626,807	753,902	-9,74	763,642
618	M-231	FUNDO	-16,3552586	-49,22167819	22S	673746,197	8164216,376	8164216,376	673746,197	749,905	-9,74	759,645
620	M-231	TN	-16,35472902	-49,22209524	22S	673623,904	8164380,164	8164380,164	673623,904	753,584	-9,74	763,324

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
621	M-231	TN	-16,35525692	-49,22168005	22S	673745,648	8164216,899	8164216,899	673745,648	750,632	-9,74	760,372
624	M-231	POSTE	-16,35475677	-49,22207202	22S	673630,718	8164371,579	8164371,579	673630,718	754,38	-9,74	764,12
625	M-231	TN	-16,35528434	-49,22167024	22S	673748,489	8164208,445	8164208,445	673748,489	750,659	-9,74	760,399
628	M-231	TN	-16,3547364	-49,22209951	22S	673622,62	8164377,908	8164377,908	673622,62	755,351	-9,74	765,091
629	M-231	na	-16,35528555	-49,2216727	22S	673747,757	8164208,081	8164208,081	673747,757	750,48	-9,74	760,22
632	M-231	FUNDO	-16,35528527	-49,22167274	22S	673747,744	8164208,167	8164208,167	673747,744	749,952	-9,74	759,692
633	M-231	BO	-16,35474001	-49,22210452	22S	673621,126	8164376,809	8164376,809	673621,126	754,491	-9,74	764,231
636	M-231	BO	-16,35475656	-49,22212043	22S	673616,368	8164371,762	8164371,762	673616,368	754,392	-9,74	764,132
637	M-231	FUNDO	-16,35528568	-49,2216754	22S	673746,955	8164208,048	8164208,048	673746,955	750,09	-9,74	759,83
640	M-231	TN	-16,35477117	-49,22213338	22S	673612,494	8164367,302	8164367,302	673612,494	754,252	-9,74	763,992
641	M-231	na	-16,35528584	-49,22167568	22S	673746,873	8164207,999	8164207,999	673746,873	750,465	-9,74	760,205
647	M-231	POSTE	-16,35536628	-49,22153028	22S	673789,767	8164182,921	8164182,921	673789,767	754,872	-9,74	764,612
649	M-231	TN	-16,35478071	-49,22213844	22S	673610,971	8164364,379	8164364,379	673610,971	755,954	-9,74	765,694
650	M-231	na	-16,35528683	-49,22167835	22S	673746,08	8164207,699	8164207,699	673746,08	750,473	-9,74	760,213
653	M-231	ALB	-16,35478791	-49,22214208	22S	673609,874	8164362,176	8164362,176	673609,874	755,779	-9,74	765,519
654	M-231	FUNDO	-16,35528671	-49,22167852	22S	673746,029	8164207,736	8164207,736	673746,029	750,3	-9,74	760,04
657	M-231	ALB	-16,35478148	-49,22216111	22S	673604,249	8164364,197	8164364,197	673604,249	756,674	-9,74	766,414
658	M-231	TN	-16,35528837	-49,22168352	22S	673744,541	8164207,24	8164207,24	673744,541	750,547	-9,74	760,287
661	M-231	ACE	-16,354765	-49,22217328	22S	673600,684	8164369,293	8164369,293	673600,684	755,22	-9,74	764,96
662	M-231	TN	-16,35530409	-49,22168037	22S	673745,436	8164202,399	8164202,399	673745,436	751,003	-9,74	760,743
665	M-231	ACE	-16,35476183	-49,22216267	22S	673603,836	8164370,241	8164370,241	673603,836	754,745	-9,74	764,485
666	M-231	na	-16,35530254	-49,22167297	22S	673747,634	8164202,858	8164202,858	673747,634	750,509	-9,74	760,249
668	M-231	FUNDO	-16,35530262	-49,22167298	22S	673747,632	8164202,835	8164202,835	673747,632	750,367	-9,74	760,107

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
671	M-231	ACE	-16,35476106	-49,22215331	22S	673606,613	8164370,456	8164370,456	673606,613	754,446	-9,74	764,186
673	M-231	FUNDO	-16,35530112	-49,2216703	22S	673748,43	8164203,289	8164203,289	673748,43	750,07	-9,74	759,81
675	M-231	ACE	-16,35476334	-49,22214445	22S	673609,234	8164369,735	8164369,735	673609,234	754,342	-9,74	764,082
677	M-231	na	-16,35530136	-49,22167018	22S	673748,463	8164203,214	8164203,214	673748,463	750,526	-9,74	760,266
679	M-231	ACE	-16,35477	-49,2221346	22S	673612,137	8164367,662	8164367,662	673612,137	754,262	-9,74	764,002
681	M-231	ACE	-16,35472431	-49,22217775	22S	673599,459	8164381,811	8164381,811	673599,459	754,373	-9,74	764,113
682	M-231	na	-16,35530063	-49,2216685	22S	673748,964	8164203,435	8164203,435	673748,964	750,519	-9,74	760,259
685	M-231	ACE	-16,35472947	-49,22217467	22S	673600,359	8164380,218	8164380,218	673600,359	754,438	-9,74	764,178
686	M-231	FUNDO	-16,35530071	-49,22166851	22S	673748,962	8164203,411	8164203,411	673748,962	749,931	-9,74	759,671
690	M-231	TN	-16,35535994	-49,22152425	22S	673791,57	8164184,857	8164184,857	673791,57	755,058	-9,74	764,798
692	M-231	TN	-16,35530006	-49,22166615	22S	673749,663	8164203,605	8164203,605	673749,663	750,63	-9,74	760,37
695	M-231	ACE	-16,3547375	-49,22217539	22S	673600,125	8164377,751	8164377,751	673600,125	754,557	-9,74	764,297
697	M-231	TN	-16,35531115	-49,22167494	22S	673747,029	8164200,217	8164200,217	673747,029	750,602	-9,74	760,342
698	M-231	ACE	-16,35474417	-49,22217918	22S	673598,985	8164375,71	8164375,71	673598,985	754,78	-9,74	764,52
701	M-231	na	-16,3553119	-49,22167059	22S	673748,315	8164199,975	8164199,975	673748,315	750,554	-9,74	760,294
703	M-231	ACE	-16,35475095	-49,22218649	22S	673596,803	8164373,644	8164373,644	673596,803	755,211	-9,74	764,951
705	M-231	POSTE	-16,3547423	-49,22218749	22S	673596,529	8164376,306	8164376,306	673596,529	755,483	-9,74	765,223
706	M-231	FUNDO	-16,35531192	-49,22167043	22S	673748,364	8164199,969	8164199,969	673748,364	750,283	-9,74	760,023
709	M-231	ALB	-16,35474534	-49,2221909	22S	673595,509	8164375,379	8164375,379	673595,509	755,957	-9,74	765,697
710	M-231	FUNDO	-16,35531131	-49,22166849	22S	673748,941	8164200,152	8164200,152	673748,941	749,996	-9,74	759,736
713	M-231	ALB	-16,3547359	-49,22220215	22S	673592,199	8164378,307	8164378,307	673592,199	756,231	-9,74	765,971
714	M-231	na	-16,35531146	-49,22166886	22S	673748,829	8164200,107	8164200,107	673748,829	750,595	-9,74	760,335
717	M-231	POSTE	-16,35481841	-49,22210531	22S	673620,695	8164352,711	8164352,711	673620,695	755,844	-9,74	765,584

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
718	M-231	na	-16,3553114	-49,22166674	22S	673749,458	8164200,121	8164200,121	673749,458	750,554	-9,74	760,294
721	M-231	POSTE	-16,35465231	-49,22218269	22S	673598,175	8164403,954	8164403,954	673598,175	754,76	-9,74	764,5
722	M-231	FUNDO	-16,35531186	-49,22166707	22S	673749,359	8164199,978	8164199,978	673749,359	750,036	-9,74	759,776
725	M-231	ACE	-16,35465145	-49,22225328	22S	673577,253	8164404,389	8164404,389	673577,253	754,566	-9,74	764,306
726	M-231	TN	-16,35531184	-49,22166287	22S	673750,605	8164199,975	8164199,975	673750,605	750,984	-9,74	760,724
728	M-231	tn	-16,35531436	-49,22167535	22S	673746,9	8164199,23	8164199,23	673746,9	750,769	-9,74	760,509
731	M-231	ACE	-16,35464598	-49,22226125	22S	673574,907	8164406,09	8164406,09	673574,907	754,643	-9,74	764,383
733	M-231	TN	-16,35535112	-49,22151587	22S	673794,077	8164187,546	8164187,546	673794,077	754,744	-9,74	764,484
737	M-231	ACE	-16,35464591	-49,22227281	22S	673571,48	8164406,14	8164406,14	673571,48	755,014	-9,74	764,754
738	M-231	na	-16,35531692	-49,22167228	22S	673747,804	8164198,437	8164198,437	673747,804	750,593	-9,74	760,333
741	M-231	ACE	-16,35464884	-49,22228007	22S	673569,321	8164405,256	8164405,256	673569,321	755,405	-9,74	765,145
742	M-231	FUNDO	-16,35531717	-49,22167222	22S	673747,82	8164198,359	8164198,359	673747,82	750,22	-9,74	759,96
745	M-231	ACE	-16,35465093	-49,22228419	22S	673568,094	8164404,624	8164404,624	673568,094	755,688	-9,74	765,428
746	M-231	FUNDO	-16,35531934	-49,22167091	22S	673748,204	8164197,69	8164197,69	673748,204	750,034	-9,74	759,774
748	M-231	ALB	-16,35465645	-49,22227644	22S	673570,377	8164402,908	8164402,908	673570,377	756,208	-9,74	765,948
749	M-231	na	-16,35531899	-49,22167046	22S	673748,338	8164197,797	8164197,797	673748,338	750,632	-9,74	760,372
751	M-231	ACE	-16,35463822	-49,22230515	22S	673561,912	8164408,58	8164408,58	673561,912	755,892	-9,74	765,632
752	M-231	na	-16,35532078	-49,22166967	22S	673748,568	8164197,244	8164197,244	673748,568	750,585	-9,74	760,325
755	M-231	ACE	-16,35462874	-49,22230043	22S	673563,337	8164411,484	8164411,484	673563,337	755,528	-9,74	765,268
756	M-231	FUNDO	-16,35532094	-49,22166977	22S	673748,538	8164197,195	8164197,195	673748,538	750,439	-9,74	760,179
759	M-231	TN	-16,35532579	-49,22166723	22S	673749,277	8164195,698	8164195,698	673749,277	751,064	-9,74	760,804
761	M-231	ACE	-16,35461769	-49,22229825	22S	673564,01	8164414,875	8164414,875	673564,01	754,893	-9,74	764,633
762	M-231	TN	-16,35531582	-49,22168069	22S	673745,313	8164198,796	8164198,796	673745,313	751,078	-9,74	760,818

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
763	M-231	ACE	-16,35460686	-49,22230098	22S	673563,227	8164418,211	8164418,211	673563,227	754,738	-9,74	764,478
766	M-231	na	-16,35531755	-49,22167943	22S	673745,681	8164198,261	8164198,261	673745,681	750,607	-9,74	760,347
768	M-231	ACE	-16,3545975	-49,22231026	22S	673560,5	8164421,109	8164421,109	673560,5	754,715	-9,74	764,455
770	M-231	ALB	-16,35463289	-49,2223108	22S	673560,251	8164410,233	8164410,233	673560,251	756,292	-9,74	766,032
771	M-231	FUNDO	-16,35531734	-49,22167929	22S	673745,723	8164198,323	8164198,323	673745,723	750,128	-9,74	759,868
775	M-231	BO	-16,35534354	-49,2215081	22S	673796,399	8164189,858	8164189,858	673796,399	754,833	-9,74	764,573
779	M-231	ALB	-16,35462185	-49,22232138	22S	673557,142	8164413,652	8164413,652	673557,142	756,363	-9,74	766,103
780	M-231	FUNDO	-16,35531919	-49,22167736	22S	673746,292	8164197,75	8164197,75	673746,292	750,086	-9,74	759,826
782	M-231	na	-16,35531913	-49,22167821	22S	673746,04	8164197,771	8164197,771	673746,04	750,612	-9,74	760,352
785	M-231	ALB	-16,35460974	-49,22233472	22S	673553,218	8164417,407	8164417,407	673553,218	756,42	-9,74	766,16
787	M-231	na	-16,35532098	-49,22167809	22S	673746,071	8164197,203	8164197,203	673746,071	750,585	-9,74	760,325
789	M-231	TN	-16,35460022	-49,22232858	22S	673555,062	8164420,317	8164420,317	673555,062	756,225	-9,74	765,965
791	M-231	FUNDO	-16,35532151	-49,22167743	22S	673746,265	8164197,038	8164197,038	673746,265	750,102	-9,74	759,842
793	M-231	POSTE	-16,35456766	-49,22237078	22S	673542,637	8164430,427	8164430,427	673542,637	756,343	-9,74	766,083
795	M-231	TN	-16,35458731	-49,22232118	22S	673557,289	8164424,268	8164424,268	673557,289	754,715	-9,74	764,455
796	M-231	TN	-16,35532453	-49,22167769	22S	673746,18	8164196,109	8164196,109	673746,18	751,525	-9,74	761,265
799	M-231	BO	-16,35457513	-49,22231057	22S	673560,463	8164427,988	8164427,988	673560,463	754,898	-9,74	764,638
800	M-231	TN	-16,35533513	-49,22171245	22S	673735,85	8164192,936	8164192,936	673735,85	753,248	-9,74	762,988
803	M-231	BO	-16,35455704	-49,22229569	22S	673564,92	8164433,511	8164433,511	673564,92	755,051	-9,74	764,791
804	M-231	na	-16,35533918	-49,22170655	22S	673737,59	8164191,675	8164191,675	673737,59	751,354	-9,74	761,094
807	M-231	TN	-16,35455154	-49,22229039	22S	673566,504	8164435,189	8164435,189	673566,504	755,089	-9,74	764,829
808	M-231	FUNDO	-16,35533965	-49,22170601	22S	673737,749	8164191,53	8164191,53	673737,749	751,085	-9,74	760,825
811	M-231	POSTE	-16,35455	-49,22228948	22S	673566,778	8164435,659	8164435,659	673566,778	755,114	-9,74	764,854

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
812	M-231	FUNDO	-16,3553406	-49,22170443	22S	673738,213	8164191,235	8164191,235	673738,213	751,103	-9,74	760,843
814	M-231	na	-16,35534095	-49,22170473	22S	673738,125	8164191,128	8164191,128	673738,125	751,369	-9,74	761,109
817	M-231	TN	-16,35454305	-49,22228684	22S	673567,578	8164437,789	8164437,789	673567,578	754,624	-9,74	764,364
820	M-231	BO	-16,35532774	-49,22149152	22S	673801,353	8164194,676	8164194,676	673801,353	754,903	-9,74	764,643
824	M-231	BO	-16,35453535	-49,22227802	22S	673570,211	8164440,135	8164440,135	673570,211	754,668	-9,74	764,408
825	M-231	na	-16,35534362	-49,22170253	22S	673738,769	8164190,301	8164190,301	673738,769	750,917	-9,74	760,657
828	M-231	BO	-16,35451951	-49,22226199	22S	673575,002	8164444,966	8164444,966	673575,002	754,501	-9,74	764,241
829	M-231	na	-16,35534328	-49,22170265	22S	673738,735	8164190,408	8164190,408	673738,735	751,428	-9,74	761,168
832	M-231	TN	-16,35450928	-49,22225101	22S	673578,283	8164448,084	8164448,084	673578,283	754,145	-9,74	763,885
833	M-231	TN	-16,35534524	-49,22169822	22S	673740,043	8164189,795	8164189,795	673740,043	753,015	-9,74	762,755
835	M-231	TN	-16,35450568	-49,22224322	22S	673580,601	8164449,172	8164449,172	673580,601	753,282	-9,74	763,022
836	M-231	TN	-16,35535397	-49,2217121	22S	673735,907	8164187,145	8164187,145	673735,907	752,791	-9,74	762,531
838	M-231	na	-16,35535125	-49,22171283	22S	673735,697	8164187,982	8164187,982	673735,697	751,743	-9,74	761,483
841	M-231	FUNDO	-16,35535101	-49,2217128	22S	673735,708	8164188,054	8164188,054	673735,708	751,586	-9,74	761,326
844	M-231	TN	-16,35433744	-49,22243519	22S	673524,119	8164501,347	8164501,347	673524,119	755,906	-9,74	765,646
845	M-231	FUNDO	-16,35534705	-49,22171799	22S	673734,179	8164189,285	8164189,285	673734,179	751,645	-9,74	761,385
848	M-231	TN	-16,3543326	-49,2224334	22S	673524,661	8164502,832	8164502,832	673524,661	756,032	-9,74	765,772
849	M-231	na	-16,35534684	-49,22171754	22S	673734,313	8164189,348	8164189,348	673734,313	752,123	-9,74	761,863
852	M-231	TN	-16,35434739	-49,22242126	22S	673528,223	8164498,257	8164498,257	673528,223	755,721	-9,74	765,461
853	M-231	na	-16,35534468	-49,2217189	22S	673733,916	8164190,017	8164190,017	673733,916	752,035	-9,74	761,775
856	M-231	FUNDO	-16,35534466	-49,22171906	22S	673733,869	8164190,021	8164190,021	673733,869	751,886	-9,74	761,626
859	M-231	TN	-16,35532346	-49,22148621	22S	673802,937	8164195,977	8164195,977	673802,937	754,917	-9,74	764,657
863	M-231	TN	-16,35440358	-49,22233806	22S	673552,742	8164480,784	8164480,784	673552,742	753,392	-9,74	763,132

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
864	M-231	TN	-16,35533848	-49,22172025	22S	673733,53	8164191,926	8164191,926	673733,53	753,847	-9,74	763,587
866	M-231	TN	-16,35440846	-49,2223423	22S	673551,473	8164479,295	8164479,295	673551,473	753,572	-9,74	763,312
867	M-231	TN	-16,35534425	-49,22172462	22S	673732,222	8164190,16	8164190,16	673732,222	754,204	-9,74	763,944
869	M-231	BO	-16,35442591	-49,22235938	22S	673546,368	8164473,973	8164473,973	673546,368	755,198	-9,74	764,938
870	M-231	na	-16,35534594	-49,22172468	22S	673732,2	8164189,641	8164189,641	673732,2	753,713	-9,74	763,453
872	M-231	TN	-16,35441992	-49,22235298	22S	673548,281	8164475,799	8164475,799	673548,281	754,838	-9,74	764,578
873	M-231	FUNDO	-16,35534613	-49,22172466	22S	673732,204	8164189,585	8164189,585	673732,204	753,566	-9,74	763,306
875	M-231	BO	-16,3544408	-49,2223773	22S	673541,019	8164469,437	8164469,437	673541,019	755,271	-9,74	765,011
876	M-231	FUNDO	-16,35534942	-49,22172407	22S	673732,371	8164188,571	8164188,571	673732,371	753,704	-9,74	763,444
878	M-231	TN	-16,35444764	-49,22238638	22S	673538,312	8164467,356	8164467,356	673538,312	755,136	-9,74	764,876
879	M-231	na	-16,35534936	-49,2217242	22S	673732,334	8164188,591	8164188,591	673732,334	753,901	-9,74	763,641
881	M-231	TN	-16,35445275	-49,22239349	22S	673536,19	8164465,803	8164465,803	673536,19	755,866	-9,74	765,606
882	M-231	na	-16,35535156	-49,22172334	22S	673732,581	8164187,911	8164187,911	673732,581	753,872	-9,74	763,612
884	M-231	POSTE	-16,35444714	-49,22239589	22S	673535,493	8164467,533	8164467,533	673535,493	755,845	-9,74	765,585
885	M-231	FUNDO	-16,35535168	-49,22172333	22S	673732,586	8164187,873	8164187,873	673732,586	753,703	-9,74	763,443
887	M-231	BO	-16,354459	-49,222398	22S	673534,838	8164463,894	8164463,894	673534,838	755,617	-9,74	765,357
888	M-231	TN	-16,35535259	-49,22172291	22S	673732,708	8164187,594	8164187,594	673732,708	754,458	-9,74	764,198
890	M-231	BO	-16,35447504	-49,22241398	22S	673530,062	8164459	8164459	673530,062	755,516	-9,74	765,256
891	M-231	TN	-16,35536002	-49,22175145	22S	673724,229	8164185,378	8164185,378	673724,229	755,466	-9,74	765,206
895	M-231	TN	-16,35532155	-49,22148367	22S	673803,696	8164196,559	8164196,559	673803,696	754,928	-9,74	764,668
898	M-231	na	-16,35536119	-49,22174937	22S	673724,844	8164185,014	8164185,014	673724,844	754,76	-9,74	764,5
899	M-231	TN	-16,35448128	-49,2224216	22S	673527,787	8164457,101	8164457,101	673527,787	755,474	-9,74	765,214
902	M-231	FUNDO	-16,35536115	-49,2217492	22S	673724,892	8164185,026	8164185,026	673724,892	754,638	-9,74	764,378

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
904	M-231	TN	-16,35449139	-49,22243243	22S	673524,554	8164454,019	8164454,019	673524,554	755,582	-9,74	765,322
906	M-231	ALB	-16,35450195	-49,22244546	22S	673520,664	8164450,804	8164450,804	673520,664	756,23	-9,74	765,97
907	M-231	FUNDO	-16,35536347	-49,22174751	22S	673725,387	8164184,309	8164184,309	673725,387	754,64	-9,74	764,38
910	M-231	POSTE	-16,35448007	-49,2224635	22S	673515,371	8164457,573	8164457,573	673515,371	756,086	-9,74	765,826
911	M-231	na	-16,3553637	-49,22174753	22S	673725,381	8164184,237	8164184,237	673725,381	754,768	-9,74	764,508
914	M-231	ALB	-16,35445283	-49,2224963	22S	673505,719	8164466,025	8164466,025	673505,719	756,22	-9,74	765,96
915	M-231	na	-16,35536627	-49,22174612	22S	673725,793	8164183,446	8164183,446	673725,793	754,783	-9,74	764,523
918	M-231	FUNDO	-16,35536628	-49,2217461	22S	673725,8	8164183,442	8164183,442	673725,8	754,708	-9,74	764,448
921	M-231	TN	-16,35536683	-49,22174544	22S	673725,992	8164183,271	8164183,271	673725,992	755,568	-9,74	765,308
924	M-231	TN	-16,3553753	-49,22177702	22S	673716,613	8164180,742	8164180,742	673716,613	756,127	-9,74	765,867
927	M-231	ALB	-16,35443359	-49,22251676	22S	673499,701	8164471,989	8164471,989	673499,701	756,536	-9,74	766,276
928	M-231	na	-16,35537801	-49,22177677	22S	673716,68	8164179,91	8164179,91	673716,68	755,974	-9,74	765,714
931	M-231	TN	-16,35442958	-49,2225137	22S	673500,618	8164473,215	8164473,215	673500,618	756,261	-9,74	766,001
932	M-231	FUNDO	-16,35537801	-49,2217767	22S	673716,7	8164179,909	8164179,909	673716,7	755,791	-9,74	765,531
936	M-231	TN	-16,35531723	-49,22147892	22S	673805,114	8164197,875	8164197,875	673805,114	754,357	-9,74	764,097
940	M-231	TN	-16,35443724	-49,22250609	22S	673502,855	8164470,843	8164470,843	673502,855	755,98	-9,74	765,72
941	M-231	FUNDO	-16,35538181	-49,22177609	22S	673716,871	8164178,739	8164178,739	673716,871	755,721	-9,74	765,461
944	M-231	TN	-16,35445109	-49,22248906	22S	673507,868	8164466,544	8164466,544	673507,868	755,737	-9,74	765,477
945	M-231	na	-16,35538171	-49,22177647	22S	673716,758	8164178,771	8164178,771	673716,758	756,044	-9,74	765,784
948	M-231	na	-16,35538432	-49,22177475	22S	673717,262	8164177,965	8164177,965	673717,262	755,961	-9,74	765,701
951	M-231	TN	-16,35444001	-49,22248376	22S	673509,468	8164469,936	8164469,936	673509,468	755,22	-9,74	764,96
952	M-231	FUNDO	-16,35538451	-49,22177583	22S	673716,943	8164177,909	8164177,909	673716,943	755,769	-9,74	765,509
955	M-231	TN	-16,35443608	-49,22248612	22S	673508,776	8164471,151	8164471,151	673508,776	755,534	-9,74	765,274

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
956	M-231	TN	-16,35538665	-49,22177389	22S	673717,51	8164177,248	8164177,248	673717,51	756,37	-9,74	766,11
958	M-231	TN	-16,35539638	-49,2218071	22S	673707,644	8164174,337	8164174,337	673707,644	757,364	-9,74	767,104
961	M-231	TN	-16,35443742	-49,22248067	22S	673510,388	8164470,726	8164470,726	673510,388	755,831	-9,74	765,571
963	M-231	na	-16,35539723	-49,22180668	22S	673707,766	8164174,074	8164174,074	673707,766	756,643	-9,74	766,383
964	M-231	TN	-16,35443864	-49,22247511	22S	673512,035	8164470,338	8164470,338	673512,035	756,073	-9,74	765,813
967	M-231	FUNDO	-16,35539717	-49,22180665	22S	673707,774	8164174,093	8164174,093	673707,774	756,553	-9,74	766,293
969	M-231	TN	-16,35445244	-49,22247369	22S	673512,42	8164466,091	8164466,091	673512,42	755,995	-9,74	765,735
971	M-231	TN	-16,35445706	-49,22247369	22S	673512,409	8164464,673	8164464,673	673512,409	755,754	-9,74	765,494
972	M-231	FUNDO	-16,35539965	-49,22180488	22S	673708,295	8164173,325	8164173,325	673708,295	756,555	-9,74	766,295
975	M-231	TN	-16,35443895	-49,22248959	22S	673507,742	8164470,277	8164470,277	673507,742	754,972	-9,74	764,712
976	M-231	na	-16,35539966	-49,22180506	22S	673708,239	8164173,322	8164173,322	673708,239	756,752	-9,74	766,492
980	M-231	BO	-16,35538055	-49,22147005	22S	673807,585	8164178,39	8164178,39	673807,585	755,425	-9,74	765,165
982	M-231	BO	-16,35530969	-49,22147259	22S	673807,01	8164200,177	8164200,177	673807,01	754,49	-9,74	764,23
987	M-231	TN	-16,35443322	-49,22249652	22S	673505,702	8164472,053	8164472,053	673505,702	755,02	-9,74	764,76
988	M-231	na	-16,3554014	-49,22180476	22S	673708,325	8164172,786	8164172,786	673708,325	756,687	-9,74	766,427
990	M-231	TN	-16,35442564	-49,22249363	22S	673506,576	8164474,376	8164474,376	673506,576	755,593	-9,74	765,333
991	M-231	FUNDO	-16,35540137	-49,22180485	22S	673708,298	8164172,796	8164172,796	673708,298	756,567	-9,74	766,307
993	M-231	TN	-16,35441853	-49,22248871	22S	673508,053	8164476,55	8164476,55	673508,053	756,117	-9,74	765,857
994	M-231	TN	-16,3554028	-49,22180452	22S	673708,393	8164172,356	8164172,356	673708,393	757,273	-9,74	767,013
997	M-231	BO	-16,35441095	-49,22248149	22S	673510,213	8164478,863	8164478,863	673510,213	756,088	-9,74	765,828
998	M-231	TN	-16,3554157	-49,22183853	22S	673698,281	8164168,474	8164168,474	673698,281	758,483	-9,74	768,223
1252	M-231	BO	-16,3543935	-49,22246608	22S	673514,824	8164484,192	8164484,192	673514,824	756,24	-9,74	765,98
1253	M-231	na	-16,35541648	-49,22183858	22S	673698,262	8164168,233	8164168,233	673698,262	757,013	-9,74	766,753

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
1338	M-231	TN	-16,35438894	-49,222462	22S	673516,044	8164485,583	8164485,583	673516,044	756,231	-9,74	765,971
1339	M-231	FUNDO	-16,35541658	-49,22183844	22S	673698,304	8164168,203	8164168,203	673698,304	756,755	-9,74	766,495
1540	M-231	TN	-16,35438526	-49,22245742	22S	673517,41	8164486,703	8164486,703	673517,41	755,762	-9,74	765,502
1563	M-231	FUNDO	-16,35541891	-49,22183636	22S	673698,915	8164167,48	8164167,48	673698,915	756,821	-9,74	766,561
1566	M-231	na	-16,35541906	-49,22183654	22S	673698,861	8164167,436	8164167,436	673698,861	757,089	-9,74	766,829
2033	M-231	TN	-16,35438131	-49,22245457	22S	673518,266	8164487,91	8164487,91	673518,266	755,483	-9,74	765,223
2034	M-231	na	-16,35542173	-49,22183539	22S	673699,195	8164166,613	8164166,613	673699,195	756,976	-9,74	766,716
2037	M-231	BO	-16,35437457	-49,22244656	22S	673520,657	8164489,963	8164489,963	673520,657	755,771	-9,74	765,511
2039	M-231	BO	-16,35435763	-49,22243073	22S	673525,391	8164495,13	8164495,13	673525,391	755,764	-9,74	765,504
2040	M-231	FUNDO	-16,35542145	-49,22183533	22S	673699,214	8164166,697	8164166,697	673699,214	756,805	-9,74	766,545
2044	M-231	POSTE	-16,35527098	-49,22153459	22S	673788,729	8164212,226	8164212,226	673788,729	753,983	-9,74	763,723
2153	M-231	TN	-16,35429294	-49,22245821	22S	673517,407	8164515,081	8164515,081	673517,407	756,373	-9,74	766,113
2154	M-231	TN	-16,35542223	-49,22183463	22S	673699,42	8164166,456	8164166,456	673699,42	758,674	-9,74	768,414
2157	M-231	TN	-16,35430569	-49,22247065	22S	673513,687	8164511,194	8164511,194	673513,687	756,4	-9,74	766,14
2160	M-231	BO	-16,35431382	-49,22247668	22S	673511,88	8164508,709	8164508,709	673511,88	756,402	-9,74	766,142
2163	M-231	BO	-16,35433089	-49,22249237	22S	673507,187	8164503,498	8164503,498	673507,187	756,344	-9,74	766,084
2166	M-231	TN	-16,35433846	-49,22250044	22S	673504,777	8164501,193	8164501,193	673504,777	756,122	-9,74	765,862
2169	M-231	POSTE	-16,35434295	-49,22250351	22S	673503,854	8164499,819	8164499,819	673503,854	756,619	-9,74	766,359
2171	M-231	TN	-16,35434608	-49,22250634	22S	673503,009	8164498,862	8164498,862	673503,009	757,011	-9,74	766,751
2174	M-231	BO	-16,35435181	-49,2225103	22S	673501,82	8164497,113	8164497,113	673501,82	756,812	-9,74	766,552
2177	M-231	BO	-16,35436796	-49,22252611	22S	673497,094	8164492,186	8164492,186	673497,094	756,693	-9,74	766,433
2180	M-231	TN	-16,35437938	-49,22253776	22S	673493,613	8164488,702	8164488,702	673493,613	756,102	-9,74	765,842
2187	M-231	BO	-16,35529123	-49,22145745	22S	673811,541	8164205,817	8164205,817	673811,541	754,474	-9,74	764,214

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
2189	M-231	TN	-16,35439058	-49,22254709	22S	673490,82	8164485,283	8164485,283	673490,82	756,132	-9,74	765,872
2192	M-231	POSTE	-16,35439531	-49,2225504	22S	673489,826	8164483,836	8164483,836	673489,826	756,64	-9,74	766,38
2195	M-231	ALB	-16,35439744	-49,22255423	22S	673488,686	8164483,19	8164483,19	673488,686	756,655	-9,74	766,395
2198	M-231	ALB	-16,3543169	-49,22263845	22S	673463,923	8164508,151	8164508,151	673463,923	757,177	-9,74	766,917
2201	M-231	POSTE	-16,35431447	-49,2226349	22S	673464,98	8164508,888	8164508,888	673464,98	757,23	-9,74	766,97
2204	M-231	TN	-16,35430766	-49,22262371	22S	673468,314	8164510,954	8164510,954	673468,314	757,08	-9,74	766,82
2208	M-231	TN	-16,35430508	-49,22261957	22S	673469,548	8164511,737	8164511,737	673469,548	757,059	-9,74	766,799
2568	M-231	TN	-16,3542998	-49,22261403	22S	673471,204	8164513,349	8164513,349	673471,204	757,729	-9,74	767,469
2572	M-231	BO	-16,35429207	-49,22260655	22S	673473,439	8164515,707	8164515,707	673473,439	757,938	-9,74	767,678
2578	M-231	BO	-16,35427429	-49,22259065	22S	673478,198	8164521,132	8164521,132	673478,198	758,133	-9,74	767,873
2603	M-231	TN	-16,35528236	-49,22144869	22S	673814,16	8164208,522	8164208,522	673814,16	754,506	-9,74	764,246
3251	M-231	TN	-16,35426928	-49,22258576	22S	673479,659	8164522,662	8164522,662	673479,659	758,22	-9,74	767,96
3313	M-231	TN	-16,35426445	-49,22258193	22S	673480,805	8164524,138	8164524,138	673480,805	757,521	-9,74	767,261
3327	M-231	TN	-16,35426222	-49,22257953	22S	673481,522	8164524,817	8164524,817	673481,522	757,815	-9,74	767,555
3341	M-231	BO	-16,35425374	-49,22257208	22S	673483,752	8164527,405	8164527,405	673483,752	757,929	-9,74	767,669
3355	M-231	BO	-16,35423709	-49,2225576	22S	673488,086	8164532,487	8164532,487	673488,086	757,958	-9,74	767,698
3369	M-231	TN	-16,35422924	-49,22254969	22S	673490,45	8164534,882	8164534,882	673490,45	758,046	-9,74	767,786
3385	M-231	TN	-16,35421569	-49,22253435	22S	673495,031	8164539,01	8164539,01	673495,031	758,692	-9,74	768,432
3715	M-231	TN	-16,35521025	-49,22151997	22S	673793,215	8164230,857	8164230,857	673793,215	753,391	-9,74	763,131
3856	M-231	BO	-16,35521794	-49,22153337	22S	673789,222	8164228,528	8164228,528	673789,222	753,396	-9,74	763,136
3997	M-231	BO	-16,35523292	-49,22155207	22S	673783,644	8164223,968	8164223,968	673783,644	753,431	-9,74	763,171
4141	M-231	TN	-16,35523928	-49,22156007	22S	673781,256	8164222,03	8164222,03	673781,256	753,222	-9,74	762,962
4286	M-231	BO	-16,35536426	-49,22145383	22S	673812,433	8164183,36	8164183,36	673812,433	755,572	-9,74	765,312

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
4291	M-231	TN	-16,35524441	-49,2215661	22S	673779,456	8164220,468	8164220,468	673779,456	753,828	-9,74	763,568
4434	M-231	TN	-16,35524497	-49,22156748	22S	673779,044	8164220,3	8164220,3	673779,044	753,843	-9,74	763,583
4579	M-231	BO	-16,35525038	-49,22157318	22S	673777,341	8164218,65	8164218,65	673777,341	753,985	-9,74	763,725
4714	M-231	BO	-16,35526463	-49,22159065	22S	673772,129	8164214,312	8164214,312	673772,129	753,835	-9,74	763,575
4859	M-231	TN	-16,35527108	-49,22159682	22S	673770,282	8164212,345	8164212,345	673770,282	753,684	-9,74	763,424
4996	M-231	TN	-16,35527916	-49,22160311	22S	673768,398	8164209,877	8164209,877	673768,398	753,114	-9,74	762,854
5131	M-231	TN	-16,35528827	-49,2216065	22S	673767,37	8164207,086	8164207,086	673767,37	751,673	-9,74	761,413
5257	M-231	TN	-16,35529358	-49,22160978	22S	673766,385	8164205,461	8164205,461	673766,385	751,602	-9,74	761,342
5381	M-231	TN	-16,35529676	-49,22161071	22S	673766,103	8164204,485	8164204,485	673766,103	751,643	-9,74	761,383
5508	M-231	POSTE	-16,35528233	-49,2216195	22S	673763,533	8164208,942	8164208,942	673763,533	751,914	-9,74	761,654
5638	M-231	TN	-16,35535842	-49,22144905	22S	673813,864	8164185,143	8164185,143	673813,864	755,536	-9,74	765,276
5645	M-231	TN	-16,35529947	-49,22162664	22S	673761,374	8164203,691	8164203,691	673761,374	750,834	-9,74	760,574
5766	M-231	TN	-16,35531242	-49,22164433	22S	673756,099	8164199,751	8164199,751	673756,099	750,148	-9,74	759,888
5887	M-231	NA	-16,35531944	-49,22166535	22S	673749,849	8164197,645	8164197,645	673749,849	748,881	-9,74	758,621
6010	M-231	NA	-16,3553177	-49,22167506	22S	673746,977	8164198,203	8164198,203	673746,977	748,735	-9,74	758,475
6125	M-231	NA	-16,35529434	-49,22167512	22S	673747,016	8164205,384	8164205,384	673747,016	748,486	-9,74	758,226
6243	M-231	NA	-16,35529169	-49,22166958	22S	673748,666	8164206,186	8164206,186	673748,666	748,888	-9,74	758,628
6362	M-231	TN	-16,35527769	-49,22166149	22S	673751,099	8164210,469	8164210,469	673751,099	749,888	-9,74	759,628
6477	M-231	NA	-16,35527653	-49,22167578	22S	673746,867	8164210,861	8164210,861	673746,867	748,707	-9,74	758,447
6591	M-231	NA	-16,35527945	-49,22168567	22S	673743,927	8164209,985	8164209,985	673743,927	748,62	-9,74	758,36
6820	M-231	TN	-16,3553584	-49,22144905	22S	673813,863	8164185,147	8164185,147	673813,863	755,535	-9,74	765,275
6825	M-231	TN	-16,3552608	-49,22168376	22S	673744,541	8164215,713	8164215,713	673744,541	749,312	-9,74	759,052
6940	M-231	TN	-16,35524728	-49,22168755	22S	673743,451	8164219,879	8164219,879	673743,451	749,737	-9,74	759,477

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
7054	M-231	NA	-16,35524125	-49,22168837	22S	673743,223	8164221,736	8164221,736	673743,223	748,535	-9,74	758,275
7167	M-231	NA	-16,35524885	-49,2216716	22S	673748,173	8164219,359	8164219,359	673748,173	748,694	-9,74	758,434
7358	M-231	TN	-16,35583446	-49,22081653	22S	674000,154	8164037,292	8164037,292	674000,154	771,328	-9,74	781,068
7359	M-231	TN	-16,35584804	-49,22085083	22S	673989,952	8164033,199	8164033,199	673989,952	770,717	-9,74	780,457
7360	M-231	ACOST	-16,35585728	-49,22086025	22S	673987,137	8164030,382	8164030,382	673987,137	770,954	-9,74	780,694
7361	M-231	BO	-16,35586157	-49,22086234	22S	673986,508	8164029,069	8164029,069	673986,508	771,02	-9,74	780,76
7362	M-231	BO	-16,3558773	-49,22087914	22S	673981,487	8164024,272	8164024,272	673981,487	770,934	-9,74	780,674
7363	M-231	ACOST	-16,35588416	-49,22088539	22S	673979,617	8164022,179	8164022,179	673979,617	770,824	-9,74	780,564
7364	M-231	PT	-16,35588946	-49,22089142	22S	673977,819	8164020,565	8164020,565	673977,819	771,24	-9,74	780,98
7365	M-231	ACOST	-16,35589376	-49,220896	22S	673976,449	8164019,256	8164019,256	673976,449	771,239	-9,74	780,979
7366	M-231	BO	-16,35589762	-49,22089974	22S	673975,331	8164018,078	8164018,078	673975,331	771,226	-9,74	780,966
7367	M-231	BO	-16,35591486	-49,22091582	22S	673970,522	8164012,818	8164012,818	673970,522	771,041	-9,74	780,781
7369	M-231	ACOST	-16,35592014	-49,22092174	22S	673968,755	8164011,209	8164011,209	673968,755	770,95	-9,74	780,69
7370	M-231	ACE	-16,35591984	-49,22094249	22S	673962,606	8164011,351	8164011,351	673962,606	770,725	-9,74	780,465
7371	M-231	ACE	-16,35590479	-49,22095853	22S	673957,887	8164016,014	8164016,014	673957,887	770,402	-9,74	780,142
7372	M-231	PT	-16,35593225	-49,22093551	22S	673964,643	8164007,52	8164007,52	673964,643	772,49	-9,74	782,23
7373	M-231	TN	-16,35596682	-49,22098051	22S	673951,219	8163997,002	8163997,002	673951,219	770,223	-9,74	779,963
7374	M-231	TN	-16,35584496	-49,22105437	22S	673929,63	8164034,636	8164034,636	673929,63	767,761	-9,74	777,501
7375	M-231	ACE	-16,35582763	-49,22103818	22S	673934,473	8164039,926	8164039,926	673934,473	768,382	-9,74	778,122
7376	M-231	PT	-16,35584609	-49,22102879	22S	673937,211	8164034,229	8164034,229	673937,211	768,536	-9,74	778,276
7378	M-231	ACOST	-16,3558215	-49,22102332	22S	673938,893	8164041,774	8164041,774	673938,893	768,404	-9,74	778,144
7379	M-231	BO	-16,35581572	-49,22101953	22S	673940,031	8164043,541	8164043,541	673940,031	768,357	-9,74	778,097
7380	M-231	BO	-16,35579528	-49,22100598	22S	673944,098	8164049,79	8164049,79	673944,098	768,429	-9,74	778,169

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
7381	M-231	ACOST	-16,35579131	-49,22100262	22S	673945,104	8164051,003	8164051,003	673945,104	768,443	-9,74	778,183
7382	M-231	PT	-16,35578676	-49,22099901	22S	673946,185	8164052,394	8164052,394	673946,185	768,428	-9,74	778,168
7383	M-231	BO	-16,35577358	-49,22098743	22S	673949,649	8164056,416	8164056,416	673949,649	768,176	-9,74	777,916
7384	M-231	BO	-16,35575719	-49,22097008	22S	673954,834	8164061,412	8164061,412	673954,834	768,158	-9,74	777,898
7385	M-231	ACOST	-16,35575104	-49,22096449	22S	673956,506	8164063,289	8164063,289	673956,506	768,011	-9,74	777,751
7386	M-231	TN	-16,35573827	-49,22095226	22S	673960,162	8164067,184	8164067,184	673960,162	768,146	-9,74	777,886
7387	M-231	TN	-16,35571967	-49,22093424	22S	673965,552	8164072,858	8164072,858	673965,552	768,715	-9,74	778,455
7390	M-231	TN	-16,35525192	-49,22166813	22S	673749,194	8164218,406	8164218,406	673749,194	749,169	-9,74	758,909
7394	M-231	TN	-16,35562584	-49,22103128	22S	673937,024	8164101,935	8164101,935	673937,024	766,404	-9,74	776,144
7395	M-231	TN	-16,35564201	-49,22104552	22S	673932,761	8164096,998	8164096,998	673932,761	766,171	-9,74	775,911
7396	M-231	ACOST	-16,35565881	-49,22106044	22S	673928,296	8164091,87	8164091,87	673928,296	765,641	-9,74	775,381
7397	M-231	BO	-16,35566566	-49,22106608	22S	673926,608	8164089,78	8164089,78	673926,608	765,798	-9,74	775,538
7398	M-231	BO	-16,3556838	-49,2210806	22S	673922,259	8164084,237	8164084,237	673922,259	765,882	-9,74	775,622
7399	M-231	ACOST	-16,35569072	-49,22108714	22S	673920,304	8164082,128	8164082,128	673920,304	765,707	-9,74	775,447
7400	M-231	TN	-16,35569686	-49,22109358	22S	673918,381	8164080,256	8164080,256	673918,381	766,055	-9,74	775,795
7401	M-231	ACOST	-16,35569982	-49,22109733	22S	673917,26	8164079,354	8164079,354	673917,26	765,934	-9,74	775,674
7402	M-231	BO	-16,35570263	-49,22110141	22S	673916,045	8164078,5	8164078,5	673916,045	766,001	-9,74	775,741
7403	M-231	BO	-16,35571968	-49,22111788	22S	673911,119	8164073,298	8164073,298	673911,119	765,777	-9,74	775,517
7405	M-231	ACOST	-16,35572577	-49,22112365	22S	673909,395	8164071,44	8164071,44	673909,395	765,723	-9,74	775,463
7406	M-231	ACE	-16,35573405	-49,22113138	22S	673907,084	8164068,915	8164068,915	673907,084	765,794	-9,74	775,534
7407	M-231	PT	-16,3557599	-49,22111818	22S	673910,931	8164060,937	8164060,937	673910,931	766,078	-9,74	775,818
7408	M-231	PT	-16,35566944	-49,22121595	22S	673882,179	8164088,978	8164088,978	673882,179	763,284	-9,74	773,024
7409	M-231	TN	-16,35567915	-49,22122868	22S	673878,379	8164086,023	8164086,023	673878,379	763,21	-9,74	772,95

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
7410	M-231	TN	-16,35563433	-49,22126165	22S	673868,721	8164099,88	8164099,88	673868,721	762,184	-9,74	771,924
7411	M-231	ACE	-16,35562279	-49,22125175	22S	673871,683	8164103,403	8164103,403	673871,683	762,675	-9,74	772,415
7412	M-231	ACOST	-16,35561173	-49,22124157	22S	673874,728	8164106,778	8164106,778	673874,728	762,501	-9,74	772,241
7414	M-231	BO	-16,3556056	-49,22123616	22S	673876,346	8164108,651	8164108,651	673876,346	762,554	-9,74	772,294
7415	M-231	BO	-16,3555886	-49,22122057	22S	673881,009	8164113,837	8164113,837	673881,009	762,693	-9,74	772,433
7416	M-231	ACOST	-16,35558541	-49,22121705	22S	673882,061	8164114,811	8164114,811	673882,061	762,727	-9,74	772,467
7417	M-231	PT	-16,3555807	-49,22121341	22S	673883,151	8164116,249	8164116,249	673883,151	762,684	-9,74	772,424
7418	M-231	ACOST	-16,35557424	-49,2212081	22S	673884,742	8164118,221	8164118,221	673884,742	762,556	-9,74	772,296
7419	M-231	BO	-16,35556784	-49,22120173	22S	673886,647	8164120,173	8164120,173	673886,647	762,672	-9,74	772,412
7420	M-231	BO	-16,3555523	-49,2211843	22S	673891,851	8164124,91	8164124,91	673891,851	762,688	-9,74	772,428
7421	M-231	ACOST	-16,35554661	-49,22117867	22S	673893,534	8164126,643	8164126,643	673893,534	762,597	-9,74	772,337
7423	M-231	ACOST	-16,35544713	-49,22128154	22S	673863,293	8164157,471	8164157,471	673863,293	759,936	-9,74	769,676
7424	M-231	BO	-16,35545215	-49,22128848	22S	673861,224	8164155,944	8164155,944	673861,224	760,043	-9,74	769,783
7425	M-231	BO	-16,35546724	-49,22130674	22S	673855,772	8164151,351	8164151,351	673855,772	760,041	-9,74	769,781
7426	M-231	ACOST	-16,35547298	-49,2213144	22S	673853,487	8164149,605	8164149,605	673853,487	759,893	-9,74	769,633
7427	M-231	PT	-16,3554771	-49,22132067	22S	673851,621	8164148,354	8164148,354	673851,621	759,914	-9,74	769,654
7428	M-231	ACOST	-16,35548068	-49,22132467	22S	673850,426	8164147,262	8164147,262	673850,426	759,822	-9,74	769,562
7429	M-231	BO	-16,35548462	-49,22132895	22S	673849,147	8164146,06	8164146,06	673849,147	759,789	-9,74	769,529
7430	M-231	BO	-16,35549949	-49,22134666	22S	673843,859	8164141,534	8164141,534	673843,859	759,631	-9,74	769,371
7431	M-231	ACOST	-16,35550434	-49,22135236	22S	673842,158	8164140,057	8164140,057	673842,158	759,521	-9,74	769,261
7432	M-231	TN	-16,35550865	-49,22135669	22S	673840,863	8164138,742	8164138,742	673840,863	759,947	-9,74	769,687
7434	M-231	ACE	-16,3554912	-49,22139219	22S	673830,385	8164144,192	8164144,192	673830,385	759,894	-9,74	769,634
7435	M-231	ACE	-16,35550801	-49,22140074	22S	673827,809	8164139,044	8164139,044	673827,809	760,127	-9,74	769,867

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
7436	M-231	ACE	-16,35552501	-49,22137337	22S	673835,88	8164133,753	8164133,753	673835,88	760,275	-9,74	770,015
7437	M-231	ACE	-16,35550894	-49,22136293	22S	673839,015	8164138,667	8164138,667	673839,015	760,029	-9,74	769,769
7438	M-231	ACE	-16,35553055	-49,2213325	22S	673847,98	8164131,953	8164131,953	673847,98	760,545	-9,74	770,285
7439	M-231	ACE	-16,35554494	-49,22134155	22S	673845,26	8164127,55	8164127,55	673845,26	760,606	-9,74	770,346
7440	M-231	ACE	-16,35556028	-49,22131949	22S	673851,761	8164122,781	8164122,781	673851,761	761,136	-9,74	770,876
7441	M-231	ACE	-16,35556613	-49,22131183	22S	673854,017	8164120,964	8164120,964	673854,017	761,271	-9,74	771,011
7442	M-231	ACE	-16,3555802	-49,22129529	22S	673858,885	8164116,601	8164116,601	673858,885	761,535	-9,74	771,275
7443	M-231	PT	-16,35558465	-49,22130206	22S	673856,867	8164115,25	8164115,25	673856,867	761,521	-9,74	771,261
7445	M-231	ACE	-16,3555393	-49,22132181	22S	673851,126	8164129,236	8164129,236	673851,126	760,542	-9,74	770,282
7446	M-231	ACE	-16,35554399	-49,22131689	22S	673852,573	8164127,784	8164127,784	673852,573	760,664	-9,74	770,404
7447	M-231	ACE	-16,35554708	-49,22131278	22S	673853,783	8164126,823	8164126,823	673853,783	760,742	-9,74	770,482
7448	M-231	ACE	-16,355545	-49,22131128	22S	673854,232	8164127,459	8164127,459	673854,232	760,628	-9,74	770,368
7449	M-231	ACOST	-16,35553875	-49,22131807	22S	673852,235	8164129,396	8164129,396	673852,235	760,475	-9,74	770,215
7450	M-231	ACOST	-16,35553309	-49,22132352	22S	673850,635	8164131,15	8164131,15	673850,635	760,291	-9,74	770,031
7495	M-231	TN	-16,35525704	-49,22165023	22S	673754,489	8164216,788	8164216,788	673754,489	749,427	-9,74	759,167
7707	M-231	TN	-16,35526343	-49,22164638	22S	673755,612	8164214,816	8164214,816	673755,612	750,477	-9,74	760,217
7783	M-231	ALB	-16,35429438	-49,22266254	22S	673456,839	8164515,132	8164515,132	673456,839	759,482	-9,74	769,222
7784	M-231	PT	-16,35429211	-49,2226594	22S	673457,775	8164515,82	8164515,82	673457,775	759,623	-9,74	769,363
7785	M-231	TN	-16,35427799	-49,22264968	22S	673460,692	8164520,137	8164520,137	673460,692	759,505	-9,74	769,245
7786	M-231	ACOST	-16,35427002	-49,22264181	22S	673463,043	8164522,57	8164522,57	673463,043	760,042	-9,74	769,782
7787	M-231	BO	-16,35426411	-49,22263575	22S	673464,856	8164524,371	8164524,371	673464,856	760,149	-9,74	769,889
7789	M-231	BO	-16,35424763	-49,22261831	22S	673470,064	8164529,396	8164529,396	673470,064	760,297	-9,74	770,037
7790	M-231	ACOST	-16,35424455	-49,22261493	22S	673471,076	8164530,334	8164530,334	673471,076	760,291	-9,74	770,031

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
7791	M-231	PT	-16,35424177	-49,22261123	22S	673472,177	8164531,179	8164531,179	673472,177	760,295	-9,74	770,035
7792	M-231	ACOST	-16,35423576	-49,22260523	22S	673473,973	8164533,011	8164533,011	673473,973	759,913	-9,74	769,653
7793	M-231	BO	-16,35422983	-49,22259762	22S	673476,243	8164534,817	8164534,817	673476,243	760,076	-9,74	769,816
7794	M-231	BO	-16,35421356	-49,22258055	22S	673481,343	8164539,777	8164539,777	673481,343	760,082	-9,74	769,822
7795	M-231	ACOST	-16,35420814	-49,22257508	22S	673482,978	8164541,428	8164541,428	673482,978	760,006	-9,74	769,746
7796	M-231	ACE	-16,35420484	-49,22257162	22S	673484,011	8164542,436	8164542,436	673484,011	759,983	-9,74	769,723
7797	M-231	TN	-16,35420085	-49,22256825	22S	673485,019	8164543,654	8164543,654	673485,019	760,839	-9,74	770,579
7798	M-231	ACE	-16,3542274	-49,22255374	22S	673489,255	8164535,457	8164535,457	673489,255	759,543	-9,74	769,283
7800	M-231	ACOST	-16,35423915	-49,22254155	22S	673492,837	8164531,816	8164531,816	673492,837	759,264	-9,74	769,004
7823	M-231	TN	-16,35527509	-49,221646	22S	673755,695	8164211,232	8164211,232	673755,695	749,998	-9,74	759,738
7940	M-231	TN	-16,35535607	-49,22144757	22S	673814,308	8164185,861	8164185,861	673814,308	755,462	-9,74	765,202
7943	M-231	TN	-16,35526319	-49,22162058	22S	673763,261	8164214,827	8164214,827	673763,261	753,245	-9,74	762,985
8058	M-231	TN	-16,35524775	-49,22163584	22S	673758,777	8164219,609	8164219,609	673758,777	753,245	-9,74	762,985
8171	M-231	TN	-16,35523314	-49,22164957	22S	673754,743	8164224,133	8164224,133	673754,743	752,908	-9,74	762,648
8284	M-231	TN	-16,35523162	-49,22165032	22S	673754,525	8164224,604	8164224,604	673754,525	752,652	-9,74	762,392
8390	M-231	TN	-16,35521434	-49,22166286	22S	673750,85	8164229,945	8164229,945	673750,85	753,176	-9,74	762,916
8472	M-231	TN	-16,35520396	-49,22168219	22S	673745,148	8164233,182	8164233,182	673745,148	752,777	-9,74	762,517
8587	M-231	TN	-16,35519151	-49,22169441	22S	673741,556	8164237,039	8164237,039	673741,556	753,027	-9,74	762,767
8701	M-231	TN	-16,35519362	-49,22170905	22S	673737,213	8164236,426	8164236,426	673737,213	753,192	-9,74	762,932
8815	M-231	TN	-16,35520086	-49,22172928	22S	673731,197	8164234,248	8164234,248	673731,197	753,234	-9,74	762,974
8930	M-231	TN	-16,35518272	-49,22174286	22S	673727,219	8164239,858	8164239,858	673727,219	754,263	-9,74	764,003
9044	M-231	BO	-16,35534471	-49,22143579	22S	673817,829	8164189,325	8164189,325	673817,829	755,221	-9,74	764,961
9049	M-231	POSTE	-16,3551694	-49,22173953	22S	673728,239	8164243,945	8164243,945	673728,239	753,837	-9,74	763,577

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
9163	M-231	TN	-16,35515859	-49,22174089	22S	673727,861	8164247,269	8164247,269	673727,861	753,884	-9,74	763,624
9278	M-231	TN	-16,35519206	-49,22176173	22S	673721,601	8164237,032	8164237,032	673721,601	754,177	-9,74	763,917
9392	M-231	TN	-16,35521632	-49,22177816	22S	673716,671	8164229,615	8164229,615	673716,671	754,185	-9,74	763,925
9509	M-231	TN	-16,35522	-49,22176345	22S	673721,022	8164228,446	8164228,446	673721,022	753,517	-9,74	763,257
9621	M-231	TN	-16,35522236	-49,2217406	22S	673727,788	8164227,666	8164227,666	673727,788	752,766	-9,74	762,506
9729	M-231	TN	-16,35524047	-49,22172367	22S	673732,761	8164222,059	8164222,059	673732,761	751,989	-9,74	761,729
9839	M-231	TN	-16,35525805	-49,22171747	22S	673734,556	8164216,641	8164216,641	673734,556	751,495	-9,74	761,235
9928	M-231	TN	-16,35526561	-49,22174467	22S	673726,474	8164214,382	8164214,382	673726,474	752,755	-9,74	762,495
11640	M-231	TN	-16,35532395	-49,22171877	22S	673734,006	8164196,386	8164196,386	673734,006	752,04	-9,74	761,78
11751	M-231	BO	-16,35532812	-49,22141813	22S	673823,105	8164194,382	8164194,382	673823,105	755,281	-9,74	765,021
11756	M-231	TN	-16,35532363	-49,22170669	22S	673737,587	8164196,457	8164196,457	673737,587	751,448	-9,74	761,188
11869	M-231	NA	-16,35535076	-49,22171374	22S	673735,43	8164188,134	8164188,134	673735,43	749,806	-9,74	759,546
11977	M-231	NA	-16,35535299	-49,22171271	22S	673735,728	8164187,447	8164187,447	673735,728	749,497	-9,74	759,237
12073	M-231	NA	-16,35535994	-49,22174686	22S	673725,591	8164185,391	8164185,391	673725,591	752,181	-9,74	761,921
12157	M-231	NA	-16,35536518	-49,22174361	22S	673726,539	8164183,773	8164183,773	673726,539	752,129	-9,74	761,869
12261	M-231	TN	-16,3553464	-49,22174947	22S	673724,851	8164189,559	8164189,559	673724,851	753,744	-9,74	763,484
12370	M-231	TN	-16,35532726	-49,22176382	22S	673720,643	8164195,479	8164195,479	673720,643	753,986	-9,74	763,726
12477	M-231	TN	-16,35530685	-49,22177442	22S	673717,554	8164201,778	8164201,778	673717,554	754,256	-9,74	763,996
12587	M-231	TN	-16,35528875	-49,2217833	22S	673714,966	8164207,363	8164207,363	673714,966	754,689	-9,74	764,429
12699	M-231	TN	-16,3552723	-49,22178899	22S	673713,321	8164212,432	8164212,432	673713,321	754,438	-9,74	764,178
15740	M-231	TN	-16,35540661	-49,22149819	22S	673799,179	8164170,449	8164170,449	673799,179	756,023	-9,74	765,763

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
217	M-231	CERCA	-16,35501312	-49,22169961	22S	673740,461	8164291,884	8164291,884	673740,461	750,22	-9,74	759,96
218	M-232	TN	-16,35501906	-49,22170449	22S	673738,999	8164290,07	8164290,07	673738,999	751,969	-9,74	761,709
219	M-233	TN	-16,35502504	-49,22171098	22S	673737,061	8164288,248	8164288,248	673737,061	752,494	-9,74	762,234
220	M-234	BO	-16,35503566	-49,22172342	22S	673733,347	8164285,013	8164285,013	673733,347	752,82	-9,74	762,56
224	M-235	BO	-16,35505267	-49,22173989	22S	673728,423	8164279,826	8164279,826	673728,423	752,863	-9,74	762,603
232	M-236	TN	-16,35505922	-49,22174718	22S	673726,246	8164277,829	8164277,829	673726,246	752,68	-9,74	762,42
237	M-237	POSTE	-16,35506323	-49,22175159	22S	673724,927	8164276,607	8164276,607	673724,927	753,269	-9,74	763,009
243	M-238	TN	-16,35506593	-49,22175539	22S	673723,795	8164275,786	8164275,786	673723,795	753,648	-9,74	763,388
247	M-239	BO	-16,35507014	-49,22176089	22S	673722,156	8164274,507	8164274,507	673722,156	753,535	-9,74	763,275
251	M-240	BO	-16,35508639	-49,22177672	22S	673717,422	8164269,55	8164269,55	673717,422	753,396	-9,74	763,136
379	M-241	ALB	-16,35506574	-49,22185954	22S	673692,927	8164276,096	8164276,096	673692,927	754,55	-9,74	764,29
385	M-242	POSTE	-16,35505774	-49,22185266	22S	673694,986	8164278,539	8164278,539	673694,986	754,528	-9,74	764,268
388	M-243	TN	-16,35505283	-49,22184836	22S	673696,271	8164280,037	8164280,037	673696,271	754,3	-9,74	764,04
394	M-244	TN	-16,35504918	-49,22184579	22S	673697,044	8164281,152	8164281,152	673697,044	753,509	-9,74	763,249
408	M-245	BO	-16,35503424	-49,22183096	22S	673701,476	8164285,71	8164285,71	673701,476	753,544	-9,74	763,284
414	M-246	BO	-16,35501579	-49,22181757	22S	673705,49	8164291,349	8164291,349	673705,49	753,696	-9,74	763,436
419	M-247	TN	-16,3550109	-49,2218126	22S	673706,976	8164292,841	8164292,841	673706,976	753,74	-9,74	763,48
427	M-248	TN	-16,35500752	-49,22180685	22S	673708,688	8164293,864	8164293,864	673708,688	752,885	-9,74	762,625
430	M-249	TN	-16,35500419	-49,22180264	22S	673709,946	8164294,877	8164294,877	673709,946	752,896	-9,74	762,636
447	M-250	BO	-16,35500485	-49,22178996	22S	673713,7	8164294,644	8164294,644	673713,7	752,981	-9,74	762,721
451	M-251	BO	-16,35498801	-49,22177367	22S	673718,573	8164299,783	8164299,783	673718,573	752,984	-9,74	762,724
456	M-252	POSTE	-16,35498417	-49,22175657	22S	673723,65	8164300,921	8164300,921	673723,65	752,832	-9,74	762,572
463	M-253	TN	-16,35497769	-49,22176386	22S	673721,504	8164302,931	8164302,931	673721,504	752,741	-9,74	762,481

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENADAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
471	M-254	CERCA	-16,35496347	-49,22175028	22S	673725,567	8164307,269	8164307,269	673725,567	751,74	-9,74	761,48
477	M-255	CERCA	-16,35488647	-49,22182918	22S	673702,373	8164331,126	8164331,126	673702,373	752,902	-9,74	762,642
480	M-256	TN	-16,35489694	-49,22184684	22S	673697,11	8164327,953	8164327,953	673697,11	753,038	-9,74	762,778
486	M-257	BO	-16,35490836	-49,221857	22S	673694,072	8164324,467	8164324,467	673694,072	753,283	-9,74	763,023
490	M-258	BO	-16,35492431	-49,22187355	22S	673689,125	8164319,602	8164319,602	673689,125	753,362	-9,74	763,102
496	M-259	TN	-16,35493212	-49,22188118	22S	673686,846	8164317,22	8164317,22	673686,846	753,204	-9,74	762,944
499	M-260	POSTE	-16,35496057	-49,22185765	22S	673693,747	8164308,419	8164308,419	673693,747	753,357	-9,74	763,097
506	M-261	TN	-16,3549378	-49,2218859	22S	673685,433	8164315,485	8164315,485	673685,433	754,004	-9,74	763,744
514	M-262	BO	-16,35494237	-49,22189381	22S	673683,075	8164314,1	8164314,1	673683,075	753,87	-9,74	763,61
518	M-263	BO	-16,35495884	-49,22190962	22S	673678,349	8164309,076	8164309,076	673678,349	753,743	-9,74	763,483
524	M-264	TN	-16,35497208	-49,22192436	22S	673673,946	8164305,04	8164305,04	673673,946	753,598	-9,74	763,338
527	M-265	TN	-16,35497541	-49,22192845	22S	673672,726	8164304,027	8164304,027	673672,726	754,431	-9,74	764,171
532	M-266	POSTE	-16,3549822	-49,22193273	22S	673671,442	8164301,952	8164301,952	673671,442	755,053	-9,74	764,793
534	M-267	ALB	-16,35488881	-49,22204026	22S	673639,803	8164330,917	8164330,917	673639,803	756,118	-9,74	765,858
538	M-268	POSTE	-16,35488528	-49,22203655	22S	673640,909	8164331,993	8164331,993	673640,909	755,636	-9,74	765,376
542	M-269	TN	-16,35488162	-49,22203331	22S	673641,88	8164333,109	8164333,109	673641,88	755,201	-9,74	764,941
546	M-270	TN	-16,35487443	-49,22202663	22S	673643,879	8164335,303	8164335,303	673643,879	753,862	-9,74	763,602
550	M-271	BO	-16,35485969	-49,22201332	22S	673647,86	8164339,802	8164339,802	673647,86	754,034	-9,74	763,774
562	M-272	BO	-16,35484265	-49,22199775	22S	673652,516	8164345,004	8164345,004	673652,516	754,194	-9,74	763,934
565	M-273	TN	-16,35483782	-49,22199297	22S	673653,947	8164346,476	8164346,476	673653,947	754,256	-9,74	763,996
568	M-274	TN	-16,35483367	-49,22198639	22S	673655,905	8164347,735	8164347,735	673655,905	753,264	-9,74	763,004
573	M-275	BO	-16,35482488	-49,22197687	22S	673658,75	8164350,416	8164350,416	673658,75	753,618	-9,74	763,358
577	M-276	BO	-16,35480827	-49,22196134	22S	673663,394	8164355,482	8164355,482	673663,394	753,54	-9,74	763,28

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
583	M-277	TN	-16,35480019	-49,22195407	22S	673665,57	8164357,948	8164357,948	673665,57	753,449	-9,74	763,189
586	M-278	TN	-16,35478812	-49,22194435	22S	673668,482	8164361,637	8164361,637	673668,482	752,998	-9,74	762,738
592	M-279	cerca	-16,35474119	-49,22198247	22S	673657,3	8164376,153	8164376,153	673657,3	752,695	-9,74	762,435
596	M-280	CERCA	-16,35467645	-49,22204702	22S	673638,329	8164396,207	8164396,207	673638,329	752,604	-9,74	762,344
607	M-281	TN	-16,35468631	-49,22205206	22S	673636,808	8164393,191	8164393,191	673636,808	753,355	-9,74	763,095
611	M-282	TN	-16,35469593	-49,22206106	22S	673634,118	8164390,253	8164390,253	673634,118	753,704	-9,74	763,444
613	M-283	BO	-16,35470389	-49,22206965	22S	673631,551	8164387,829	8164387,829	673631,551	753,777	-9,74	763,517
617	M-284	BO	-16,35471991	-49,22208552	22S	673626,807	8164382,941	8164382,941	673626,807	753,902	-9,74	763,642
620	M-285	TN	-16,35472902	-49,22209524	22S	673623,904	8164380,164	8164380,164	673623,904	753,584	-9,74	763,324
624	M-286	POSTE	-16,35475677	-49,22207202	22S	673630,718	8164371,579	8164371,579	673630,718	754,38	-9,74	764,12
628	M-287	TN	-16,3547364	-49,22209951	22S	673622,62	8164377,908	8164377,908	673622,62	755,351	-9,74	765,091
633	M-288	BO	-16,35474001	-49,22210452	22S	673621,126	8164376,809	8164376,809	673621,126	754,491	-9,74	764,231
636	M-289	BO	-16,35475656	-49,22212043	22S	673616,368	8164371,762	8164371,762	673616,368	754,392	-9,74	764,132
640	M-290	TN	-16,35477117	-49,22213338	22S	673612,494	8164367,302	8164367,302	673612,494	754,252	-9,74	763,992
649	M-291	TN	-16,35478071	-49,22213844	22S	673610,971	8164364,379	8164364,379	673610,971	755,954	-9,74	765,694
653	M-292	ALB	-16,35478791	-49,22214208	22S	673609,874	8164362,176	8164362,176	673609,874	755,779	-9,74	765,519
657	M-293	ALB	-16,35478148	-49,22216111	22S	673604,249	8164364,197	8164364,197	673604,249	756,674	-9,74	766,414
661	M-294	ACE	-16,354765	-49,22217328	22S	673600,684	8164369,293	8164369,293	673600,684	755,22	-9,74	764,96
665	M-295	ACE	-16,35476183	-49,22216267	22S	673603,836	8164370,241	8164370,241	673603,836	754,745	-9,74	764,485
671	M-296	ACE	-16,35476106	-49,22215331	22S	673606,613	8164370,456	8164370,456	673606,613	754,446	-9,74	764,186
675	M-297	ACE	-16,35476334	-49,22214445	22S	673609,234	8164369,735	8164369,735	673609,234	754,342	-9,74	764,082
679	M-298	ACE	-16,35477	-49,2221346	22S	673612,137	8164367,662	8164367,662	673612,137	754,262	-9,74	764,002
681	M-299	ACE	-16,35472431	-49,22217775	22S	673599,459	8164381,811	8164381,811	673599,459	754,373	-9,74	764,113

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
685	M-300	ACE	-16,35472947	-49,22217467	22S	673600,359	8164380,218	8164380,218	673600,359	754,438	-9,74	764,178
695	M-301	ACE	-16,3547375	-49,22217539	22S	673600,125	8164377,751	8164377,751	673600,125	754,557	-9,74	764,297
698	M-302	ACE	-16,35474417	-49,22217918	22S	673598,985	8164375,71	8164375,71	673598,985	754,78	-9,74	764,52
703	M-303	ACE	-16,35475095	-49,22218649	22S	673596,803	8164373,644	8164373,644	673596,803	755,211	-9,74	764,951
705	M-304	POSTE	-16,3547423	-49,22218749	22S	673596,529	8164376,306	8164376,306	673596,529	755,483	-9,74	765,223
709	M-305	ALB	-16,35474534	-49,2221909	22S	673595,509	8164375,379	8164375,379	673595,509	755,957	-9,74	765,697
713	M-306	ALB	-16,3547359	-49,22220215	22S	673592,199	8164378,307	8164378,307	673592,199	756,231	-9,74	765,971
717	M-307	POSTE	-16,35481841	-49,22210531	22S	673620,695	8164352,711	8164352,711	673620,695	755,844	-9,74	765,584
721	M-308	POSTE	-16,35465231	-49,22218269	22S	673598,175	8164403,954	8164403,954	673598,175	754,76	-9,74	764,5
725	M-309	ACE	-16,35465145	-49,22225328	22S	673577,253	8164404,389	8164404,389	673577,253	754,566	-9,74	764,306
731	M-310	ACE	-16,35464598	-49,22226125	22S	673574,907	8164406,09	8164406,09	673574,907	754,643	-9,74	764,383
737	M-311	ACE	-16,35464591	-49,22227281	22S	673571,48	8164406,14	8164406,14	673571,48	755,014	-9,74	764,754
741	M-312	ACE	-16,35464884	-49,22228007	22S	673569,321	8164405,256	8164405,256	673569,321	755,405	-9,74	765,145
745	M-313	ACE	-16,35465093	-49,22228419	22S	673568,094	8164404,624	8164404,624	673568,094	755,688	-9,74	765,428
748	M-314	ALB	-16,35465645	-49,22227644	22S	673570,377	8164402,908	8164402,908	673570,377	756,208	-9,74	765,948
751	M-315	ACE	-16,35463822	-49,22230515	22S	673561,912	8164408,58	8164408,58	673561,912	755,892	-9,74	765,632
755	M-316	ACE	-16,35462874	-49,22230043	22S	673563,337	8164411,484	8164411,484	673563,337	755,528	-9,74	765,268
761	M-317	ACE	-16,35461769	-49,22229825	22S	673564,01	8164414,875	8164414,875	673564,01	754,893	-9,74	764,633
763	M-318	ACE	-16,35460686	-49,22230098	22S	673563,227	8164418,211	8164418,211	673563,227	754,738	-9,74	764,478
768	M-319	ACE	-16,3545975	-49,22231026	22S	673560,5	8164421,109	8164421,109	673560,5	754,715	-9,74	764,455
770	M-320	ALB	-16,35463289	-49,2223108	22S	673560,251	8164410,233	8164410,233	673560,251	756,292	-9,74	766,032
779	M-321	ALB	-16,35462185	-49,22232138	22S	673557,142	8164413,652	8164413,652	673557,142	756,363	-9,74	766,103
785	M-322	ALB	-16,35460974	-49,22233472	22S	673553,218	8164417,407	8164417,407	673553,218	756,42	-9,74	766,16

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
789	M-323	TN	-16,35460022	-49,22232858	22S	673555,062	8164420,317	8164420,317	673555,062	756,225	-9,74	765,965
793	M-324	POSTE	-16,35456766	-49,22237078	22S	673542,637	8164430,427	8164430,427	673542,637	756,343	-9,74	766,083
795	M-325	TN	-16,35458731	-49,22232118	22S	673557,289	8164424,268	8164424,268	673557,289	754,715	-9,74	764,455
799	M-326	BO	-16,35457513	-49,22231057	22S	673560,463	8164427,988	8164427,988	673560,463	754,898	-9,74	764,638
803	M-327	BO	-16,35455704	-49,22229569	22S	673564,92	8164433,511	8164433,511	673564,92	755,051	-9,74	764,791
807	M-328	TN	-16,35455154	-49,22229039	22S	673566,504	8164435,189	8164435,189	673566,504	755,089	-9,74	764,829
811	M-329	POSTE	-16,35455	-49,22228948	22S	673566,778	8164435,659	8164435,659	673566,778	755,114	-9,74	764,854
817	M-330	TN	-16,35454305	-49,22228684	22S	673567,578	8164437,789	8164437,789	673567,578	754,624	-9,74	764,364
824	M-331	BO	-16,35453535	-49,22227802	22S	673570,211	8164440,135	8164440,135	673570,211	754,668	-9,74	764,408
828	M-332	BO	-16,35451951	-49,22226199	22S	673575,002	8164444,966	8164444,966	673575,002	754,501	-9,74	764,241
832	M-333	TN	-16,35450928	-49,22225101	22S	673578,283	8164448,084	8164448,084	673578,283	754,145	-9,74	763,885
835	M-334	TN	-16,35450568	-49,22224322	22S	673580,601	8164449,172	8164449,172	673580,601	753,282	-9,74	763,022
844	M-335	TN	-16,35433744	-49,22243519	22S	673524,119	8164501,347	8164501,347	673524,119	755,906	-9,74	765,646
848	M-336	TN	-16,3543326	-49,2224334	22S	673524,661	8164502,832	8164502,832	673524,661	756,032	-9,74	765,772
852	M-337	TN	-16,35434739	-49,22242126	22S	673528,223	8164498,257	8164498,257	673528,223	755,721	-9,74	765,461
863	M-338	TN	-16,35440358	-49,22233806	22S	673552,742	8164480,784	8164480,784	673552,742	753,392	-9,74	763,132
866	M-339	TN	-16,35440846	-49,2223423	22S	673551,473	8164479,295	8164479,295	673551,473	753,572	-9,74	763,312
869	M-340	BO	-16,35442591	-49,22235938	22S	673546,368	8164473,973	8164473,973	673546,368	755,198	-9,74	764,938
872	M-341	TN	-16,35441992	-49,22235298	22S	673548,281	8164475,799	8164475,799	673548,281	754,838	-9,74	764,578
875	M-342	BO	-16,3544408	-49,2223773	22S	673541,019	8164469,437	8164469,437	673541,019	755,271	-9,74	765,011
878	M-343	TN	-16,35444764	-49,22238638	22S	673538,312	8164467,356	8164467,356	673538,312	755,136	-9,74	764,876
881	M-344	TN	-16,35445275	-49,22239349	22S	673536,19	8164465,803	8164465,803	673536,19	755,866	-9,74	765,606
884	M-345	POSTE	-16,35444714	-49,22239589	22S	673535,493	8164467,533	8164467,533	673535,493	755,845	-9,74	765,585

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
887	M-346	BO	-16,354459	-49,222398	22S	673534,838	8164463,894	8164463,894	673534,838	755,617	-9,74	765,357
890	M-347	BO	-16,35447504	-49,22241398	22S	673530,062	8164459	8164459	673530,062	755,516	-9,74	765,256
899	M-348	TN	-16,35448128	-49,2224216	22S	673527,787	8164457,101	8164457,101	673527,787	755,474	-9,74	765,214
904	M-349	TN	-16,35449139	-49,22243243	22S	673524,554	8164454,019	8164454,019	673524,554	755,582	-9,74	765,322
906	M-350	ALB	-16,35450195	-49,22244546	22S	673520,664	8164450,804	8164450,804	673520,664	756,23	-9,74	765,97
910	M-351	POSTE	-16,35448007	-49,2224635	22S	673515,371	8164457,573	8164457,573	673515,371	756,086	-9,74	765,826
914	M-352	ALB	-16,35445283	-49,2224963	22S	673505,719	8164466,025	8164466,025	673505,719	756,22	-9,74	765,96
927	M-353	ALB	-16,35443359	-49,22251676	22S	673499,701	8164471,989	8164471,989	673499,701	756,536	-9,74	766,276
931	M-354	TN	-16,35442958	-49,2225137	22S	673500,618	8164473,215	8164473,215	673500,618	756,261	-9,74	766,001
940	M-355	TN	-16,35443724	-49,22250609	22S	673502,855	8164470,843	8164470,843	673502,855	755,98	-9,74	765,72
944	M-356	TN	-16,35445109	-49,22248906	22S	673507,868	8164466,544	8164466,544	673507,868	755,737	-9,74	765,477
951	M-357	TN	-16,35444001	-49,22248376	22S	673509,468	8164469,936	8164469,936	673509,468	755,22	-9,74	764,96
955	M-358	TN	-16,35443608	-49,22248612	22S	673508,776	8164471,151	8164471,151	673508,776	755,534	-9,74	765,274
961	M-359	TN	-16,35443742	-49,22248067	22S	673510,388	8164470,726	8164470,726	673510,388	755,831	-9,74	765,571
964	M-360	TN	-16,35443864	-49,22247511	22S	673512,035	8164470,338	8164470,338	673512,035	756,073	-9,74	765,813
969	M-361	TN	-16,35445244	-49,22247369	22S	673512,42	8164466,091	8164466,091	673512,42	755,995	-9,74	765,735
971	M-362	TN	-16,35445706	-49,22247369	22S	673512,409	8164464,673	8164464,673	673512,409	755,754	-9,74	765,494
975	M-363	TN	-16,35443895	-49,22248959	22S	673507,742	8164470,277	8164470,277	673507,742	754,972	-9,74	764,712
987	M-364	TN	-16,35443322	-49,22249652	22S	673505,702	8164472,053	8164472,053	673505,702	755,02	-9,74	764,76
990	M-365	TN	-16,35442564	-49,22249363	22S	673506,576	8164474,376	8164474,376	673506,576	755,593	-9,74	765,333
993	M-366	TN	-16,35441853	-49,22248871	22S	673508,053	8164476,55	8164476,55	673508,053	756,117	-9,74	765,857
997	M-367	BO	-16,35441095	-49,22248149	22S	673510,213	8164478,863	8164478,863	673510,213	756,088	-9,74	765,828
1252	M-368	BO	-16,3543935	-49,22246608	22S	673514,824	8164484,192	8164484,192	673514,824	756,24	-9,74	765,98

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
1338	M-369	TN	-16,35438894	-49,222462	22S	673516,044	8164485,583	8164485,583	673516,044	756,231	-9,74	765,971
1540	M-370	TN	-16,35438526	-49,22245742	22S	673517,41	8164486,703	8164486,703	673517,41	755,762	-9,74	765,502
2033	M-371	TN	-16,35438131	-49,22245457	22S	673518,266	8164487,91	8164487,91	673518,266	755,483	-9,74	765,223
2037	M-372	BO	-16,35437457	-49,22244656	22S	673520,657	8164489,963	8164489,963	673520,657	755,771	-9,74	765,511
2039	M-373	BO	-16,35435763	-49,22243073	22S	673525,391	8164495,13	8164495,13	673525,391	755,764	-9,74	765,504
2153	M-374	TN	-16,35429294	-49,22245821	22S	673517,407	8164515,081	8164515,081	673517,407	756,373	-9,74	766,113
2157	M-375	TN	-16,35430569	-49,22247065	22S	673513,687	8164511,194	8164511,194	673513,687	756,4	-9,74	766,14
2160	M-376	BO	-16,35431382	-49,22247668	22S	673511,88	8164508,709	8164508,709	673511,88	756,402	-9,74	766,142
2163	M-377	BO	-16,35433089	-49,22249237	22S	673507,187	8164503,498	8164503,498	673507,187	756,344	-9,74	766,084
2166	M-378	TN	-16,35433846	-49,22250044	22S	673504,777	8164501,193	8164501,193	673504,777	756,122	-9,74	765,862
2169	M-379	POSTE	-16,35434295	-49,22250351	22S	673503,854	8164499,819	8164499,819	673503,854	756,619	-9,74	766,359
2171	M-380	TN	-16,35434608	-49,22250634	22S	673503,009	8164498,862	8164498,862	673503,009	757,011	-9,74	766,751
2174	M-381	BO	-16,35435181	-49,2225103	22S	673501,82	8164497,113	8164497,113	673501,82	756,812	-9,74	766,552
2177	M-382	BO	-16,35436796	-49,22252611	22S	673497,094	8164492,186	8164492,186	673497,094	756,693	-9,74	766,433
2180	M-383	TN	-16,35437938	-49,22253776	22S	673493,613	8164488,702	8164488,702	673493,613	756,102	-9,74	765,842
2189	M-384	TN	-16,35439058	-49,22254709	22S	673490,82	8164485,283	8164485,283	673490,82	756,132	-9,74	765,872
2192	M-385	POSTE	-16,35439531	-49,2225504	22S	673489,826	8164483,836	8164483,836	673489,826	756,64	-9,74	766,38
2195	M-386	ALB	-16,35439744	-49,22255423	22S	673488,686	8164483,19	8164483,19	673488,686	756,655	-9,74	766,395
2198	M-387	ALB	-16,3543169	-49,22263845	22S	673463,923	8164508,151	8164508,151	673463,923	757,177	-9,74	766,917
2201	M-388	POSTE	-16,35431447	-49,2226349	22S	673464,98	8164508,888	8164508,888	673464,98	757,23	-9,74	766,97
2204	M-389	TN	-16,35430766	-49,22262371	22S	673468,314	8164510,954	8164510,954	673468,314	757,08	-9,74	766,82
2208	M-390	TN	-16,35430508	-49,22261957	22S	673469,548	8164511,737	8164511,737	673469,548	757,059	-9,74	766,799
2568	M-391	TN	-16,3542998	-49,22261403	22S	673471,204	8164513,349	8164513,349	673471,204	757,729	-9,74	767,469

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
2572	M-392	BO	-16,35429207	-49,22260655	22S	673473,439	8164515,707	8164515,707	673473,439	757,938	-9,74	767,678
2578	M-393	BO	-16,35427429	-49,22259065	22S	673478,198	8164521,132	8164521,132	673478,198	758,133	-9,74	767,873
3251	M-394	TN	-16,35426928	-49,22258576	22S	673479,659	8164522,662	8164522,662	673479,659	758,22	-9,74	767,96
3313	M-395	TN	-16,35426445	-49,22258193	22S	673480,805	8164524,138	8164524,138	673480,805	757,521	-9,74	767,261
3327	M-396	TN	-16,35426222	-49,22257953	22S	673481,522	8164524,817	8164524,817	673481,522	757,815	-9,74	767,555
3341	M-397	BO	-16,35425374	-49,22257208	22S	673483,752	8164527,405	8164527,405	673483,752	757,929	-9,74	767,669
3355	M-398	BO	-16,35423709	-49,2225576	22S	673488,086	8164532,487	8164532,487	673488,086	757,958	-9,74	767,698
3369	M-399	TN	-16,35422924	-49,22254969	22S	673490,45	8164534,882	8164534,882	673490,45	758,046	-9,74	767,786
3385	M-400	TN	-16,35421569	-49,22253435	22S	673495,031	8164539,01	8164539,01	673495,031	758,692	-9,74	768,432
6786	M-401	TN	-16,35390538	-49,22288321	22S	673392,4	8164635,234	8164635,234	673392,4	767,407	-9,74	777,147
6787	M-402	ACOST	-16,35390941	-49,22288607	22S	673391,542	8164634	8164634	673391,542	767,283	-9,74	777,023
6788	M-403	BO	-16,35391583	-49,2228916	22S	673389,888	8164632,041	8164632,041	673389,888	767,393	-9,74	777,133
6789	M-404	BO	-16,35393319	-49,22290734	22S	673385,18	8164626,743	8164626,743	673385,18	767,4	-9,74	777,14
6790	M-405	ACOST	-16,35394021	-49,22291331	22S	673383,393	8164624,6	8164624,6	673383,393	767,182	-9,74	776,922
6791	M-406	PT	-16,35394748	-49,22291875	22S	673381,762	8164622,377	8164622,377	673381,762	767,083	-9,74	776,823
6792	M-407	ACOST	-16,35395082	-49,22292151	22S	673380,934	8164621,358	8164621,358	673380,934	767,195	-9,74	776,935
6793	M-408	BO	-16,35395465	-49,22292575	22S	673379,668	8164620,19	8164620,19	673379,668	767,203	-9,74	776,943
6794	M-409	BO	-16,35397158	-49,22294105	22S	673375,091	8164615,022	8164615,022	673375,091	767,008	-9,74	776,748
6795	M-410	ACOST	-16,35397732	-49,2229466	22S	673373,433	8164613,273	8164613,273	673373,433	766,906	-9,74	776,646
6796	M-411	ALB	-16,35400091	-49,22296701	22S	673367,323	8164606,07	8164606,07	673367,323	767,212	-9,74	776,952
6797	M-412	PT	-16,3540035	-49,22295754	22S	673370,124	8164605,252	8164605,252	673370,124	767,004	-9,74	776,744
6798	M-413	PT	-16,35408448	-49,22287309	22S	673394,955	8164580,156	8164580,156	673394,955	764,861	-9,74	774,601
6799	M-414	ALB	-16,35409796	-49,22286707	22S	673396,704	8164575,999	8164575,999	673396,704	764,446	-9,74	774,186

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
6800	M-415	TN	-16,35409246	-49,22286004	22S	673398,802	8164577,672	8164577,672	673398,802	764,221	-9,74	773,961
6801	M-416	TN	-16,35408919	-49,22285606	22S	673399,989	8164578,669	8164578,669	673399,989	763,778	-9,74	773,518
6802	M-417	TN	-16,35408699	-49,22285351	22S	673400,752	8164579,338	8164579,338	673400,752	763,742	-9,74	773,482
6803	M-418	TN	-16,35408122	-49,22284776	22S	673402,469	8164581,099	8164581,099	673402,469	764,731	-9,74	774,471
6804	M-419	ACOST	-16,35407702	-49,22284294	22S	673403,909	8164582,376	8164582,376	673403,909	764,587	-9,74	774,327
6805	M-420	BO	-16,35407139	-49,22283657	22S	673405,812	8164584,092	8164584,092	673405,812	764,667	-9,74	774,407
6806	M-421	BO	-16,35405506	-49,22281938	22S	673410,948	8164589,071	8164589,071	673410,948	764,797	-9,74	774,537
6807	M-422	ACOST	-16,35405202	-49,22281481	22S	673412,31	8164589,995	8164589,995	673412,31	764,829	-9,74	774,569
6808	M-423	PT	-16,35405029	-49,22281153	22S	673413,285	8164590,519	8164590,519	673413,285	764,716	-9,74	774,456
6809	M-424	ACOST	-16,35404346	-49,22280604	22S	673414,931	8164592,603	8164592,603	673414,931	764,708	-9,74	774,448
6810	M-425	BO	-16,3540206	-49,22278076	22S	673422,479	8164599,569	8164599,569	673422,479	764,886	-9,74	774,626
6811	M-426	ACOST	-16,35404344	-49,22280549	22S	673415,093	8164592,609	8164592,609	673415,093	764,709	-9,74	774,449
6812	M-427	BO	-16,3540376	-49,22279821	22S	673417,264	8164594,386	8164594,386	673417,264	764,886	-9,74	774,626
6813	M-428	ACOST	-16,35401564	-49,22277511	22S	673424,166	8164601,082	8164601,082	673424,166	764,799	-9,74	774,539
6814	M-429	ACE	-16,35399312	-49,2227575	22S	673429,442	8164607,961	8164607,961	673429,442	765,121	-9,74	774,861
6815	M-430	ACE	-16,35398991	-49,22276802	22S	673426,332	8164608,972	8164608,972	673426,332	765,38	-9,74	775,12
6816	M-431	ACE	-16,35398404	-49,22278103	22S	673422,49	8164610,809	8164610,809	673422,49	765,349	-9,74	775,089
6817	M-432	ACE	-16,35397686	-49,22279668	22S	673417,871	8164613,052	8164613,052	673417,871	765,575	-9,74	775,315
6818	M-433	ACE	-16,35396274	-49,22282135	22S	673410,593	8164617,452	8164617,452	673410,593	765,908	-9,74	775,648
6819	M-434	ACE	-16,35393963	-49,22285403	22S	673400,964	8164624,636	8164624,636	673400,964	766,607	-9,74	776,347
6820	M-435	ACE	-16,35401327	-49,22276186	22S	673428,099	8164601,779	8164601,779	673428,099	764,907	-9,74	774,647
6821	M-436	ACE	-16,35401158	-49,22276927	22S	673425,909	8164602,316	8164602,316	673425,909	765,058	-9,74	774,798
6822	M-437	ACE	-16,35401085	-49,22277959	22S	673422,851	8164602,564	8164602,564	673422,851	764,971	-9,74	774,711

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
6823	M-438	ACOST	-16,35401765	-49,22277269	22S	673424,88	8164600,459	8164600,459	673424,88	764,849	-9,74	774,589
6824	M-439	ACOST	-16,35403551	-49,22275406	22S	673430,357	8164594,922	8164594,922	673430,357	764,43	-9,74	774,17
6825	M-440	ACOST	-16,35405341	-49,2227353	22S	673435,872	8164589,375	8164589,375	673435,872	763,953	-9,74	773,693
6826	M-441	ACOST	-16,35406847	-49,22271973	22S	673440,449	8164584,709	8164584,709	673440,449	763,566	-9,74	773,306
6827	M-442	ACOST	-16,35408635	-49,22270123	22S	673445,89	8164579,169	8164579,169	673445,89	763,137	-9,74	772,877
6828	M-443	ACOST	-16,35410499	-49,22268106	22S	673451,822	8164573,389	8164573,389	673451,822	762,564	-9,74	772,304
6829	M-444	ACE	-16,35410398	-49,22267997	22S	673452,146	8164573,697	8164573,697	673452,146	762,59	-9,74	772,33
6830	M-445	ACE	-16,3540943	-49,2226821	22S	673451,54	8164576,68	8164576,68	673451,54	762,868	-9,74	772,608
6831	M-446	ACE	-16,35407619	-49,22266258	22S	673457,371	8164582,2	8164582,2	673457,371	763,233	-9,74	772,973
6832	M-447	ACE	-16,35408537	-49,22266082	22S	673457,868	8164579,374	8164579,374	673457,868	762,913	-9,74	772,653
6833	M-448	ACE	-16,35409165	-49,22265689	22S	673459,019	8164577,434	8164577,434	673459,019	762,744	-9,74	772,484
6834	M-449	ACE	-16,35410068	-49,22265081	22S	673460,799	8164574,644	8164574,644	673460,799	762,423	-9,74	772,163
6835	M-450	ALB	-16,35409267	-49,22265182	22S	673460,519	8164577,108	8164577,108	673460,519	763,079	-9,74	772,819
6836	M-451	ACOST	-16,35411455	-49,22267405	22S	673453,876	8164570,435	8164570,435	673453,876	762,36	-9,74	772,1
6837	M-452	BO	-16,35411943	-49,22267917	22S	673452,346	8164568,947	8164568,947	673452,346	762,449	-9,74	772,189
6838	M-453	BO	-16,35413638	-49,22269512	22S	673447,576	8164563,775	8164563,775	673447,576	762,431	-9,74	772,171
6839	M-454	ACOST	-16,35414284	-49,22270205	22S	673445,506	8164561,806	8164561,806	673445,506	762,261	-9,74	772,001
6840	M-455	ACOST	-16,35415229	-49,22271088	22S	673442,864	8164558,923	8164558,923	673442,864	762,42	-9,74	772,16
6841	M-456	BO	-16,35415627	-49,22271399	22S	673441,933	8164557,708	8164557,708	673441,933	762,402	-9,74	772,142
6842	M-457	BO	-16,35417196	-49,22273124	22S	673436,78	8164552,927	8164552,927	673436,78	762,264	-9,74	772,004
6843	M-458	ACOST	-16,35417731	-49,22273792	22S	673434,786	8164551,297	8164551,297	673434,786	762,192	-9,74	771,932
6844	M-459	TN	-16,35418741	-49,22274608	22S	673432,343	8164548,211	8164548,211	673432,343	762,119	-9,74	771,859
6845	M-460	TN	-16,35418764	-49,22274691	22S	673432,096	8164548,145	8164548,145	673432,096	761,492	-9,74	771,232

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
6846	M-461	TN	-16,3541896	-49,22274936	22S	673431,366	8164547,547	8164547,547	673431,366	761,571	-9,74	771,311
6847	M-462	TN	-16,35419136	-49,22275215	22S	673430,536	8164547,013	8164547,013	673430,536	762,12	-9,74	771,86
6848	M-463	PT	-16,35419563	-49,22275819	22S	673428,733	8164545,716	8164545,716	673428,733	762,167	-9,74	771,907
6849	M-464	ALB	-16,35419713	-49,22276071	22S	673427,984	8164545,26	8164545,26	673427,984	762,147	-9,74	771,887
6850	M-465	ALB	-16,3541938	-49,22276677	22S	673426,195	8164546,297	8164546,297	673426,195	762,681	-9,74	772,421
6851	M-466	ALB	-16,35417809	-49,22278434	22S	673421,025	8164551,168	8164551,168	673421,025	762,603	-9,74	772,343
6852	M-467	ACE	-16,35417597	-49,22278235	22S	673421,622	8164551,815	8164551,815	673421,622	762,607	-9,74	772,347
6853	M-468	ACE	-16,35417025	-49,22277699	22S	673423,225	8164553,56	8164553,56	673423,225	762,784	-9,74	772,524
6854	M-469	ACE	-16,35416401	-49,22277288	22S	673424,459	8164555,47	8164555,47	673424,459	762,887	-9,74	772,627
6855	M-470	ACE	-16,35415742	-49,22277187	22S	673424,774	8164557,494	8164557,494	673424,774	762,966	-9,74	772,706
6856	M-471	ACE	-16,35415058	-49,22277212	22S	673424,716	8164559,597	8164559,597	673424,716	763,005	-9,74	772,745
6857	M-472	ACE	-16,35414146	-49,22277607	22S	673423,57	8164562,408	8164562,408	673423,57	763,065	-9,74	772,805
6858	M-473	ACE	-16,35414	-49,22277693	22S	673423,317	8164562,858	8164562,858	673423,317	763,021	-9,74	772,761
6859	M-474	ACE	-16,35418479	-49,22272987	22S	673437,155	8164548,979	8164548,979	673437,155	762,034	-9,74	771,774
6860	M-475	ACE	-16,35418191	-49,2227362	22S	673435,287	8164549,88	8164549,88	673435,287	762,242	-9,74	771,982
6861	M-476	ACE	-16,35418144	-49,2227451	22S	673432,65	8164550,045	8164550,045	673432,65	762,394	-9,74	772,134
6862	M-477	ACE	-16,35418398	-49,22275212	22S	673430,563	8164549,282	8164549,282	673430,563	762,474	-9,74	772,214
6863	M-478	ACE	-16,3541889	-49,22275835	22S	673428,704	8164547,783	8164547,783	673428,704	762,424	-9,74	772,164
6864	M-479	ACE	-16,35419334	-49,22276308	22S	673427,29	8164546,431	8164546,431	673427,29	762,441	-9,74	772,181
7783	M-480	ALB	-16,35429438	-49,22266254	22S	673456,839	8164515,132	8164515,132	673456,839	759,482	-9,74	769,222
7784	M-481	PT	-16,35429211	-49,2226594	22S	673457,775	8164515,82	8164515,82	673457,775	759,623	-9,74	769,363
7785	M-482	TN	-16,35427799	-49,22264968	22S	673460,692	8164520,137	8164520,137	673460,692	759,505	-9,74	769,245
7786	M-483	ACOST	-16,35427002	-49,22264181	22S	673463,043	8164522,57	8164522,57	673463,043	760,042	-9,74	769,782

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-231		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
7787	M-484	BO	-16,35426411	-49,22263575	22S	673464,856	8164524,371	8164524,371	673464,856	760,149	-9,74	769,889
7789	M-485	BO	-16,35424763	-49,22261831	22S	673470,064	8164529,396	8164529,396	673470,064	760,297	-9,74	770,037
7790	M-486	ACOST	-16,35424455	-49,22261493	22S	673471,076	8164530,334	8164530,334	673471,076	760,291	-9,74	770,031
7791	M-487	PT	-16,35424177	-49,22261123	22S	673472,177	8164531,179	8164531,179	673472,177	760,295	-9,74	770,035
7792	M-488	ACOST	-16,35423576	-49,22260523	22S	673473,973	8164533,011	8164533,011	673473,973	759,913	-9,74	769,653
7793	M-489	BO	-16,35422983	-49,22259762	22S	673476,243	8164534,817	8164534,817	673476,243	760,076	-9,74	769,816
7794	M-490	BO	-16,35421356	-49,22258055	22S	673481,343	8164539,777	8164539,777	673481,343	760,082	-9,74	769,822
7795	M-491	ACOST	-16,35420814	-49,22257508	22S	673482,978	8164541,428	8164541,428	673482,978	760,006	-9,74	769,746
7796	M-492	ACE	-16,35420484	-49,22257162	22S	673484,011	8164542,436	8164542,436	673484,011	759,983	-9,74	769,723
7797	M-493	TN	-16,35420085	-49,22256825	22S	673485,019	8164543,654	8164543,654	673485,019	760,839	-9,74	770,579
7798	M-494	ACE	-16,3542274	-49,22255374	22S	673489,255	8164535,457	8164535,457	673489,255	759,543	-9,74	769,283
7800	M-495	ACOST	-16,35423915	-49,22254155	22S	673492,837	8164531,816	8164531,816	673492,837	759,264	-9,74	769,004
13492	M-496	Na-tubo	-16,35444061	-49,22247638	22S	673511,653	8164469,734	8164469,734	673511,653	754,738	-9,74	764,478
13493	M-497	CX-tpo	-16,35440187	-49,22243826	22S	673523,047	8164481,55	8164481,55	673523,047	755,764	-9,74	765,504
13494	M-498	NA-tubo	-16,35433915	-49,22241825	22S	673529,135	8164500,782	8164500,782	673529,135	753,877	-9,74	763,617
13495	M-499	NA-tubo	-16,35433588	-49,22240921	22S	673531,822	8164501,766	8164501,766	673531,822	753,736	-9,74	763,476
13496	M-500	NA-tubo	-16,35436283	-49,22239767	22S	673535,176	8164493,455	8164493,455	673535,176	753,7364	-9,74	763,4764
13497	M-501	LR	-16,35443382	-49,22251003	22S	673501,696	8164471,902	8164471,902	673501,696	755,943	-9,74	765,683
13615	M-502	LR	-16,35443892	-49,22250581	22S	673502,934	8164470,326	8164470,326	673502,934	755,876	-9,74	765,616
13616	M-503	LR	-16,35444479	-49,2225013	22S	673504,255	8164468,511	8164468,511	673504,255	756,048	-9,74	765,788

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
420	M-233	TN	-16,35130824	-49,22570378	22S	672562,807	8165440,308	8165440,308	672562,807	776,901	-9,57	786,471
421	M-234	TN	-16,35130234	-49,22569944	22S	672564,108	8165442,11	8165442,11	672564,108	775,935	-9,57	785,505
422	M-235	TN	-16,35129978	-49,22569649	22S	672564,989	8165442,889	8165442,889	672564,989	775,685	-9,57	785,255
423	M-236	POSTE	-16,35133549	-49,22569644	22S	672564,916	8165431,915	8165431,915	672564,916	777,305	-9,57	786,875
424	M-237	POSTE	-16,35157358	-49,22551408	22S	672618,379	8165358,292	8165358,292	672618,379	776,593	-9,57	786,163
425	M-238	POSTE	-16,35163706	-49,22546433	22S	672632,968	8165338,663	8165338,663	672632,968	777,281	-9,57	786,851
443	M-239	TN	-16,35182884	-49,22555581	22S	672605,376	8165279,931	8165279,931	672605,376	777,725	-9,57	787,295
444	M-240	POSTE	-16,35182744	-49,22555739	22S	672604,912	8165280,364	8165280,364	672604,912	777,7	-9,57	787,27
445	M-241	TN	-16,35183913	-49,2255632	22S	672603,162	8165276,785	8165276,785	672603,162	777,14	-9,57	786,71
451	M-242	BO	-16,35193425	-49,22543573	22S	672640,71	8165247,242	8165247,242	672640,71	780,668	-9,57	790,238
452	M-243	BO	-16,35191968	-49,2254169	22S	672646,326	8165251,677	8165251,677	672646,326	780,632	-9,57	790,202
453	M-244	TN	-16,35191368	-49,22540992	22S	672648,41	8165253,503	8165253,503	672648,41	780,386	-9,57	789,956
463	M-245	TN	-16,35182934	-49,22530691	22S	672679,152	8165279,183	8165279,183	672679,152	779,812	-9,57	789,382
464	M-246	TN	-16,35182024	-49,22529417	22S	672682,953	8165281,949	8165281,949	672682,953	779,762	-9,57	789,332
465	M-247	TN	-16,35181799	-49,22529081	22S	672683,955	8165282,633	8165282,633	672683,955	779,955	-9,57	789,525
466	M-248	POSTE	-16,35190269	-49,22525614	22S	672694,021	8165256,514	8165256,514	672694,021	781,073	-9,57	790,643
467	M-249	TN	-16,35191968	-49,22520983	22S	672707,704	8165251,181	8165251,181	672707,704	781,618	-9,57	791,188
468	M-250	TN	-16,35193419	-49,22523409	22S	672700,479	8165246,778	8165246,778	672700,479	781,61	-9,57	791,18
470	M-251	BO	-16,35194366	-49,22524427	22S	672697,436	8165243,891	8165243,891	672697,436	781,788	-9,57	791,358
471	M-252	BO	-16,35195961	-49,22526021	22S	672692,672	8165239,027	8165239,027	672692,672	782,025	-9,57	791,595
472	M-253	TN	-16,35196824	-49,22526988	22S	672689,786	8165236,397	8165236,397	672689,786	781,866	-9,57	791,436
473	M-254	TN	-16,35197455	-49,22527764	22S	672687,47	8165234,477	8165234,477	672687,47	781,473	-9,57	791,043
474	M-255	TN	-16,35199041	-49,22529604	22S	672681,975	8165229,646	8165229,646	672681,975	780,295	-9,57	789,865

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
494	M-256	TN	-16,35207455	-49,2252094	22S	672707,448	8165203,575	8165203,575	672707,448	782,024	-9,57	791,594
495	M-257	TN	-16,35206276	-49,22519504	22S	672711,733	8165207,165	8165207,165	672711,733	782,945	-9,57	792,515
521	M-258	TN	-16,35207116	-49,2252484	22S	672695,898	8165204,71	8165204,71	672695,898	781,384	-9,57	790,954
522	M-259	TN	-16,35206791	-49,22524707	22S	672696,299	8165205,706	8165205,706	672696,299	780,948	-9,57	790,518
523	M-260	TN	-16,35206562	-49,22524346	22S	672697,374	8165206,4	8165206,4	672697,374	781,301	-9,57	790,871
524	M-261	TN	-16,35206331	-49,22523889	22S	672698,735	8165207,102	8165207,102	672698,735	781,84	-9,57	791,41
525	M-262	TN	-16,35206276	-49,22522265	22S	672703,55	8165207,232	8165207,232	672703,55	782,022	-9,57	791,592
546	M-263	TN	-16,3520274	-49,22529795	22S	672681,319	8165218,28	8165218,28	672681,319	781,001	-9,57	790,571
547	M-264	TN	-16,35202617	-49,22529316	22S	672682,741	8165218,646	8165218,646	672682,741	781,114	-9,57	790,684
548	M-265	TN	-16,35202337	-49,22528461	22S	672685,281	8165219,486	8165219,486	672685,281	780,924	-9,57	790,494
552	M-266	TN	-16,35200855	-49,22525927	22S	672692,829	8165223,981	8165223,981	672692,829	781,869	-9,57	791,439
553	M-267	TN	-16,35199898	-49,22525665	22S	672693,63	8165226,918	8165226,918	672693,63	781,824	-9,57	791,394
5732	M-268	ACE	-16,35126829	-49,22575258	22S	672548,44	8165452,705	8165452,705	672548,44	779,371	-9,57	788,941
5733	M-269	ACE	-16,35125905	-49,22575929	22S	672546,476	8165455,56	8165455,56	672546,476	779,432	-9,57	789,002
5734	M-270	ACE	-16,35123915	-49,22576825	22S	672543,867	8165461,699	8165461,699	672543,867	779,675	-9,57	789,245
5735	M-271	ACE	-16,35119904	-49,22578638	22S	672538,594	8165474,072	8165474,072	672538,594	780,184	-9,57	789,754
5736	M-272	ACE	-16,35117235	-49,22579825	22S	672535,142	8165482,302	8165482,302	672535,142	780,453	-9,57	790,023
5737	M-273	ACE	-16,35114622	-49,22581006	22S	672531,706	8165490,362	8165490,362	672531,706	780,82	-9,57	790,39
5738	M-274	ACE	-16,35113573	-49,22581483	22S	672530,319	8165493,598	8165493,598	672530,319	780,973	-9,57	790,543
5739	M-275	ACE	-16,35114612	-49,22583494	22S	672524,331	8165490,453	8165490,453	672524,331	781,05	-9,57	790,62
5740	M-276	ACE	-16,35115198	-49,2258323	22S	672525,1	8165488,647	8165488,647	672525,1	780,921	-9,57	790,491
5741	M-277	ACE	-16,35115665	-49,22583006	22S	672525,752	8165487,206	8165487,206	672525,752	780,846	-9,57	790,416
5742	M-278	ACE	-16,35116041	-49,22582916	22S	672526,009	8165486,046	8165486,046	672526,009	780,79	-9,57	790,36

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
5743	M-279	ACE	-16,35116227	-49,22583222	22S	672525,098	8165485,484	8165485,484	672525,098	780,761	-9,57	790,331
5744	M-280	ACE	-16,35115971	-49,22583614	22S	672523,941	8165486,278	8165486,278	672523,941	780,764	-9,57	790,334
5745	M-281	ACE	-16,35115545	-49,22583918	22S	672523,052	8165487,595	8165487,595	672523,052	780,778	-9,57	790,348
5746	M-282	PT	-16,35115346	-49,22583514	22S	672524,253	8165488,198	8165488,198	672524,253	781,076	-9,57	790,646
5747	M-283	TN	-16,35125253	-49,22575034	22S	672549,145	8165457,542	8165457,542	672549,145	779,319	-9,57	788,889
5748	M-284	PT	-16,35125573	-49,22575587	22S	672547,496	8165456,572	8165456,572	672547,496	779,486	-9,57	789,056
5749	M-285	ACOST	-16,35125128	-49,22576746	22S	672544,072	8165457,967	8165457,967	672544,072	779,656	-9,57	789,226
5750	M-286	BO	-16,35125476	-49,22577407	22S	672542,104	8165456,915	8165456,915	672542,104	779,808	-9,57	789,378
5751	M-287	BO	-16,35126809	-49,2257927	22S	672536,55	8165452,862	8165452,862	672536,55	779,863	-9,57	789,433
5752	M-288	ACOST	-16,35127428	-49,22580093	22S	672534,093	8165450,977	8165450,977	672534,093	779,687	-9,57	789,257
5753	M-289	PT	-16,35127606	-49,22580389	22S	672533,214	8165450,437	8165450,437	672533,214	779,731	-9,57	789,301
5754	M-290	TN	-16,35128908	-49,22582371	22S	672527,306	8165446,482	8165446,482	672527,306	779,03	-9,57	788,6
5755	M-291	TN	-16,35130315	-49,22584455	22S	672521,094	8165442,207	8165442,207	672521,094	779,235	-9,57	788,805
5756	M-292	TN	-16,35131449	-49,22586113	22S	672516,15	8165438,761	8165438,761	672516,15	779,703	-9,57	789,273
5757	M-293	PT	-16,35131813	-49,22586686	22S	672514,444	8165437,658	8165437,658	672514,444	779,942	-9,57	789,512
5758	M-294	ACOST	-16,35132186	-49,22587258	22S	672512,739	8165436,524	8165436,524	672512,739	780,339	-9,57	789,909
5759	M-295	BO	-16,35132507	-49,22587725	22S	672511,346	8165435,549	8165435,549	672511,346	780,344	-9,57	789,914
5760	M-296	BO	-16,35133861	-49,22589657	22S	672505,586	8165431,434	8165431,434	672505,586	780,188	-9,57	789,758
5761	M-297	ACOST	-16,35134391	-49,22590246	22S	672503,826	8165429,817	8165429,817	672503,826	780,105	-9,57	789,675
5762	M-298	TN	-16,35135095	-49,22591129	22S	672501,191	8165427,676	8165427,676	672501,191	779,87	-9,57	789,44
5763	M-299	TN	-16,35136051	-49,22592715	22S	672496,466	8165424,773	8165424,773	672496,466	779,755	-9,57	789,325
5764	M-300	PT	-16,35129496	-49,22596966	22S	672484,028	8165445,026	8165445,026	672484,028	780,931	-9,57	790,501
5765	M-301	TN	-16,3512428	-49,23001161	22S	672471,723	8165461,159	8165461,159	672471,723	782,274	-9,57	791,844

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
5766	M-302	TN	-16,35123399	-49,22599945	22S	672475,349	8165463,836	8165463,836	672475,349	781,443	-9,57	791,013
5767	M-303	ACOST	-16,35123106	-49,22599371	22S	672477,058	8165464,723	8165464,723	672477,058	781,336	-9,57	790,906
5768	M-304	BO	-16,35122659	-49,22598746	22S	672478,922	8165466,084	8165466,084	672478,922	781,438	-9,57	791,008
5769	M-305	BO	-16,35121132	-49,22596999	22S	672484,139	8165470,735	8165470,735	672484,139	781,606	-9,57	791,176
5770	M-306	ACOST	-16,35120774	-49,22596533	22S	672485,53	8165471,824	8165471,824	672485,53	781,596	-9,57	791,166
5771	M-307	PT	-16,35120439	-49,22596122	22S	672486,754	8165472,844	8165472,844	672486,754	781,45	-9,57	791,02
5772	M-308	TN	-16,35119612	-49,22595087	22S	672489,844	8165475,36	8165475,36	672489,844	780,747	-9,57	790,317
5773	M-309	TN	-16,35117948	-49,2259311	22S	672495,745	8165480,43	8165480,43	672495,745	780,737	-9,57	790,307
5774	M-310	TN	-16,35116106	-49,22590807	22S	672502,617	8165486,036	8165486,036	672502,617	781,036	-9,57	790,606
5775	M-311	ACOST	-16,35115158	-49,2258952	22S	672506,456	8165488,919	8165488,919	672506,456	781,22	-9,57	790,79
5776	M-312	PT	-16,35116223	-49,22589243	22S	672507,251	8165485,64	8165485,64	672507,251	781,128	-9,57	790,698
5777	M-313	BO	-16,35114478	-49,22588792	22S	672508,63	8165490,991	8165490,991	672508,63	781,379	-9,57	790,949
5778	M-314	BO	-16,35113105	-49,22586957	22S	672514,104	8165495,167	8165495,167	672514,104	781,331	-9,57	790,901
5779	M-315	ACOST	-16,35112539	-49,22586244	22S	672516,23	8165496,891	8165496,891	672516,23	781,178	-9,57	790,748
5780	M-316	TN	-16,35111964	-49,22585472	22S	672518,532	8165498,64	8165498,64	672518,532	781,419	-9,57	790,989
5781	M-317	PT	-16,35107166	-49,2258954	22S	672506,593	8165513,485	8165513,485	672506,593	782,161	-9,57	791,731
5782	M-318	PT	-16,35098215	-49,22596552	22S	672486,031	8165541,168	8165541,168	672486,031	783,059	-9,57	792,629
5783	M-319	ACE	-16,35097968	-49,22597449	22S	672483,379	8165541,948	8165541,948	672483,379	782,935	-9,57	792,505
5784	M-320	ACE	-16,35097124	-49,22598096	22S	672481,48	8165544,558	8165544,558	672481,48	783,022	-9,57	792,592
5785	M-321	ACE	-16,35096289	-49,2259877	22S	672479,503	8165547,14	8165547,14	672479,503	783,105	-9,57	792,675
5786	M-322	ACE	-16,35096198	-49,22598653	22S	672479,853	8165547,416	8165547,416	672479,853	783,178	-9,57	792,748
5787	M-323	ACE	-16,35096688	-49,22597964	22S	672481,882	8165545,893	8165545,893	672481,882	783,251	-9,57	792,821
5788	M-324	ACE	-16,35097847	-49,22596457	22S	672486,323	8165542,295	8165542,295	672486,323	783,017	-9,57	792,587

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
5789	M-325	ACE	-16,35096136	-49,22595126	22S	672490,308	8165547,524	8165547,524	672490,308	783,055	-9,57	792,625
5790	M-326	ACE	-16,35094912	-49,22596791	22S	672485,403	8165551,324	8165551,324	672485,403	783,178	-9,57	792,748
5791	M-327	ACE	-16,35093497	-49,22598737	22S	672479,671	8165555,721	8165555,721	672479,671	783,3	-9,57	792,87
5792	M-328	ACE	-16,35091828	-49,23001049	22S	672472,86	8165560,907	8165560,907	672472,86	783,627	-9,57	793,197
5793	M-329	ACE	-16,35090589	-49,23002639	22S	672468,177	8165564,753	8165564,753	672468,177	783,606	-9,57	793,176
5794	M-330	ACE	-16,35089461	-49,23003864	22S	672464,575	8165568,251	8165568,251	672464,575	783,731	-9,57	793,301
5795	M-331	ACE	-16,35088824	-49,23004507	22S	672462,685	8165570,223	8165570,223	672462,685	783,71	-9,57	793,28
5796	M-332	ACE	-16,35088151	-49,23005009	22S	672461,213	8165572,304	8165572,304	672461,213	783,855	-9,57	793,425
5797	M-333	PT	-16,35088793	-49,23004027	22S	672464,107	8165570,306	8165570,306	672464,107	783,88	-9,57	793,45
5798	M-334	TN	-16,35101083	-49,22594199	22S	672492,936	8165532,296	8165532,296	672492,936	782,784	-9,57	792,354
5799	M-335	ACOST	-16,35101482	-49,22594738	22S	672491,326	8165531,082	8165531,082	672491,326	782,605	-9,57	792,175
5800	M-336	BO	-16,35102033	-49,22595441	22S	672489,231	8165529,406	8165529,406	672489,231	782,738	-9,57	792,308
5801	M-337	BO	-16,35103531	-49,22597205	22S	672483,963	8165524,843	8165524,843	672483,963	782,783	-9,57	792,353
5802	M-338	ACOST	-16,35104185	-49,22597961	22S	672481,706	8165522,851	8165522,851	672481,706	782,621	-9,57	792,191
5803	M-339	PT	-16,3510443	-49,22598297	22S	672480,704	8165522,104	8165522,104	672480,704	782,814	-9,57	792,384
5804	M-340	TN	-16,35105298	-49,22599385	22S	672477,459	8165519,464	8165519,464	672477,459	782,576	-9,57	792,146
5805	M-341	TN	-16,35106283	-49,23000596	22S	672473,843	8165516,465	8165516,465	672473,843	781,761	-9,57	791,331
5806	M-342	TN	-16,35108493	-49,23003252	22S	672465,916	8165509,734	8165509,734	672465,916	781,598	-9,57	791,168
5807	M-343	TN	-16,35109298	-49,23004214	22S	672463,045	8165507,282	8165507,282	672463,045	782,067	-9,57	791,637
5808	M-344	PT	-16,35108853	-49,2300505	22S	672460,577	8165508,672	8165508,672	672460,577	782,379	-9,57	791,949
5809	M-345	ACOST	-16,351099	-49,23005101	22S	672460,4	8165505,455	8165505,455	672460,4	782,6	-9,57	792,17
5810	M-346	BO	-16,35110344	-49,23005512	22S	672459,172	8165504,097	8165504,097	672459,172	782,686	-9,57	792,256
5811	M-347	BO	-16,35112089	-49,23007129	22S	672454,335	8165498,774	8165498,774	672454,335	782,519	-9,57	792,089

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
5812	M-348	ACOST	-16,35112647	-49,23007731	22S	672452,538	8165497,071	8165497,071	672452,538	782,421	-9,57	791,991
5813	M-349	TN	-16,35113301	-49,23008473	22S	672450,321	8165495,08	8165495,08	672450,321	783,677	-9,57	793,247
5814	M-350	PT	-16,35113862	-49,23009132	22S	672448,354	8165493,371	8165493,371	672448,354	784,206	-9,57	793,776
5815	M-351	TN	-16,35113591	-49,23010097	22S	672445,5	8165494,228	8165494,228	672445,5	784,665	-9,57	794,235
5816	M-352	PT	-16,3510607	-49,23015536	22S	672429,566	8165517,476	8165517,476	672429,566	785,278	-9,57	794,848
5817	M-353	PT	-16,35098187	-49,23021472	22S	672412,166	8165541,847	8165541,847	672412,166	786,083	-9,57	795,653
5818	M-354	TN	-16,3510103	-49,23019506	22S	672417,922	8165533,061	8165533,061	672417,922	785,554	-9,57	795,124
5819	M-355	TN	-16,35100256	-49,2301856	22S	672420,745	8165535,42	8165535,42	672420,745	784,83	-9,57	794,4
5820	M-356	TN	-16,35099918	-49,23018189	22S	672421,853	8165536,45	8165536,45	672421,853	783,7	-9,57	793,27
5821	M-357	ACOST	-16,35099667	-49,23017736	22S	672423,201	8165537,209	8165537,209	672423,201	783,758	-9,57	793,328
5822	M-358	BO	-16,35099147	-49,23017066	22S	672425,202	8165538,791	8165538,791	672425,202	783,897	-9,57	793,467
5823	M-359	BO	-16,35097776	-49,23015217	22S	672430,717	8165542,963	8165542,963	672430,717	784,038	-9,57	793,608
5824	M-360	ACOST	-16,35097521	-49,23014752	22S	672432,1	8165543,735	8165543,735	672432,1	783,961	-9,57	793,531
5825	M-361	PT	-16,35097185	-49,23014174	22S	672433,821	8165544,755	8165544,755	672433,821	783,765	-9,57	793,335
5826	M-362	TN	-16,35096216	-49,23012829	22S	672437,834	8165547,699	8165547,699	672437,834	783,404	-9,57	792,974
5827	M-363	TN	-16,35094026	-49,23009716	22S	672447,115	8165554,356	8165554,356	672447,115	783,404	-9,57	792,974
5828	M-364	PT	-16,35092545	-49,23007631	22S	672453,331	8165558,86	8165558,86	672453,331	783,848	-9,57	793,418
5829	M-365	ACOST	-16,35092189	-49,23007197	22S	672454,627	8165559,944	8165559,944	672454,627	783,856	-9,57	793,426
5830	M-366	BO	-16,35091553	-49,23006452	22S	672456,851	8165561,882	8165561,882	672456,851	783,905	-9,57	793,475
5831	M-367	BO	-16,3509004	-49,23004677	22S	672462,149	8165566,49	8165566,49	672462,149	783,855	-9,57	793,425
5832	M-368	TN	-16,35088878	-49,23003334	22S	672466,158	8165570,029	8165570,029	672466,158	783,773	-9,57	793,343
5833	M-369	TN	-16,35078997	-49,23011237	22S	672442,979	8165600,589	8165600,589	672442,979	784,387	-9,57	793,957
5834	M-370	PT	-16,35078699	-49,2301189	22S	672441,05	8165601,523	8165601,523	672441,05	784,532	-9,57	794,102

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
5835	M-371	TN	-16,35077396	-49,23012319	22S	672439,811	8165605,537	8165605,537	672439,811	784,583	-9,57	794,153
5836	M-372	ACOST	-16,35077525	-49,23013161	22S	672437,31	8165605,161	8165605,161	672437,31	784,593	-9,57	794,163
5837	M-373	BO	-16,35078091	-49,23013862	22S	672435,22	8165603,439	8165603,439	672435,22	784,716	-9,57	794,286
5838	M-374	BO	-16,3507952	-49,23015684	22S	672429,784	8165599,089	8165599,089	672429,784	784,812	-9,57	794,382
5839	M-375	ACOST	-16,35080132	-49,23016512	22S	672427,314	8165597,226	8165597,226	672427,314	784,531	-9,57	794,101
5840	M-376	PT	-16,35080389	-49,23016755	22S	672426,586	8165596,444	8165596,444	672426,586	784,508	-9,57	794,078
5841	M-377	ACE	-16,35080942	-49,23017542	22S	672424,241	8165594,761	8165594,761	672424,241	784,292	-9,57	793,862
5842	M-378	ACE	-16,35082865	-49,23020095	22S	672416,627	8165588,912	8165588,912	672416,627	784,247	-9,57	793,817
5843	M-379	ACE	-16,35084979	-49,23022899	22S	672408,262	8165582,482	8165582,482	672408,262	784,342	-9,57	793,912
5844	M-380	PT	-16,35085284	-49,23023198	22S	672407,367	8165581,551	8165581,551	672407,367	784,602	-9,57	794,172
5845	M-381	ACOST	-16,35085774	-49,2302385	22S	672405,423	8165580,061	8165580,061	672405,423	785,236	-9,57	794,806
5846	M-382	BO	-16,35086052	-49,2302426	22S	672404,201	8165579,216	8165579,216	672404,201	785,232	-9,57	794,802
5847	M-383	BO	-16,35087646	-49,2302597	22S	672399,093	8165574,358	8165574,358	672399,093	785,066	-9,57	794,636
5848	M-384	ACOST	-16,3508821	-49,23026581	22S	672397,268	8165572,638	8165572,638	672397,268	784,957	-9,57	794,527
5849	M-385	TN	-16,35088558	-49,23026965	22S	672396,12	8165571,576	8165571,576	672396,12	785,064	-9,57	794,634
5850	M-386	TN	-16,35089768	-49,23028335	22S	672392,029	8165567,889	8165567,889	672392,029	786,466	-9,57	796,036
5851	M-387	PT	-16,35089946	-49,23027923	22S	672393,246	8165567,333	8165567,333	672393,246	786,412	-9,57	795,982
5853	M-388	TN	-16,35077403	-49,23038023	22S	672363,619	8165606,128	8165606,128	672363,619	786,818	-9,57	796,388
7159	M-389	ALB	-16,35260532	-49,22482098	22S	672821,263	8165039,496	8165039,496	672821,263	788,346	-9,57	797,916
7160	M-390	TN	-16,35259163	-49,22481226	22S	672823,881	8165043,683	8165043,683	672823,881	787,152	-9,57	796,722
7161	M-391	ACOST	-16,35258009	-49,22480139	22S	672827,134	8165047,204	8165047,204	672827,134	787,854	-9,57	797,424
7162	M-392	BO	-16,35257435	-49,22479283	22S	672829,683	8165048,948	8165048,948	672829,683	787,808	-9,57	797,378
7163	M-393	BO	-16,35255575	-49,22477988	22S	672833,568	8165054,636	8165054,636	672833,568	787,702	-9,57	797,272

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
7164	M-394	ACOST	-16,35254499	-49,2247735	22S	672835,488	8165057,926	8165057,926	672835,488	787,614	-9,57	797,184
7165	M-395	PT	-16,35254139	-49,22477029	22S	672836,448	8165059,027	8165059,027	672836,448	787,074	-9,57	796,644
7166	M-396	TN	-16,35253552	-49,22476629	22S	672837,647	8165060,822	8165060,822	672837,647	786,426	-9,57	795,996
7167	M-397	TN	-16,35250385	-49,22474479	22S	672844,098	8165070,504	8165070,504	672844,098	786,26	-9,57	795,83
7168	M-398	TN	-16,35248838	-49,22473533	22S	672846,941	8165075,237	8165075,237	672846,941	787,284	-9,57	796,854
7169	M-399	PT	-16,3524791	-49,22472977	22S	672848,611	8165078,077	8165078,077	672848,611	787,525	-9,57	797,095
7170	M-400	ACOST	-16,35247431	-49,22472651	22S	672849,591	8165079,541	8165079,541	672849,591	787,561	-9,57	797,131
7171	M-401	BO	-16,35246742	-49,22472206	22S	672850,927	8165081,648	8165081,648	672850,927	787,651	-9,57	797,221
7172	M-402	BO	-16,3524474	-49,22471023	22S	672854,483	8165087,774	8165087,774	672854,483	787,578	-9,57	797,148
7173	M-403	ACOST	-16,35243926	-49,22470653	22S	672855,601	8165090,266	8165090,266	672855,601	787,48	-9,57	797,05
7174	M-404	TN	-16,35242865	-49,22470011	22S	672857,53	8165093,512	8165093,512	672857,53	787,442	-9,57	797,012
7191	M-405	TN	-16,35236146	-49,22481161	22S	672824,647	8165114,432	8165114,432	672824,647	787,2	-9,57	796,77
7192	M-406	ACOST	-16,35236413	-49,22481272	22S	672824,309	8165113,613	8165113,613	672824,309	787,262	-9,57	796,832
7193	M-407	BO	-16,35236939	-49,22481817	22S	672822,682	8165112,01	8165112,01	672822,682	787,326	-9,57	796,896
7194	M-408	BO	-16,35238644	-49,22483336	22S	672818,137	8165106,805	8165106,805	672818,137	787,473	-9,57	797,043
7195	M-409	ACOST	-16,35239416	-49,22484066	22S	672815,953	8165104,45	8165104,45	672815,953	787,591	-9,57	797,161
7196	M-410	PT	-16,35239724	-49,22484307	22S	672815,233	8165103,51	8165103,51	672815,233	787,164	-9,57	796,734
7197	M-411	TN	-16,35241514	-49,22485911	22S	672810,432	8165098,044	8165098,044	672810,432	786,028	-9,57	795,598
7198	M-412	TN	-16,35242919	-49,22487187	22S	672806,616	8165093,758	8165093,758	672806,616	785,877	-9,57	795,447
7199	M-413	TN	-16,35243827	-49,22487984	22S	672804,23	8165090,984	8165090,984	672804,23	785,922	-9,57	795,492
7200	M-414	TN	-16,35245	-49,22488993	22S	672801,211	8165087,404	8165087,404	672801,211	786,291	-9,57	795,861
7201	M-415	PT	-16,3524537	-49,22489318	22S	672800,239	8165086,274	8165086,274	672800,239	786,792	-9,57	796,362
7202	M-416	ACOST	-16,35245787	-49,22489589	22S	672799,425	8165084,999	8165084,999	672799,425	787,328	-9,57	796,898

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
7203	M-417	BO	-16,35246714	-49,22490417	22S	672796,949	8165082,169	8165082,169	672796,949	787,387	-9,57	796,957
7204	M-418	BO	-16,3524862	-49,22491738	22S	672792,985	8165076,342	8165076,342	672792,985	787,561	-9,57	797,131
7205	M-419	ACOST	-16,35249371	-49,22492274	22S	672791,378	8165074,048	8165074,048	672791,378	787,567	-9,57	797,137
7206	M-420	TN	-16,35250049	-49,2249278	22S	672789,861	8165071,974	8165071,974	672789,861	786,909	-9,57	796,479
7207	M-421	TN	-16,35251128	-49,22493408	22S	672787,974	8165068,672	8165068,672	672787,974	787,288	-9,57	796,858
7208	M-422	ALB	-16,35251768	-49,2249434	22S	672785,195	8165066,728	8165066,728	672785,195	787,708	-9,57	797,278
7209	M-423	PT	-16,35254609	-49,22488488	22S	672802,471	8165057,856	8165057,856	672802,471	787,2	-9,57	796,77
7210	M-424	PT	-16,35246088	-49,2249968	22S	672769,506	8165084,316	8165084,316	672769,506	787,336	-9,57	796,906
7211	M-425	PT	-16,35237518	-49,22509567	22S	672740,413	8165110,893	8165110,893	672740,413	786,145	-9,57	795,715
7212	M-426	TN	-16,35240158	-49,2250509	22S	672753,617	8165102,671	8165102,671	672753,617	786,323	-9,57	795,893
7213	M-427	TN	-16,35240985	-49,22505886	22S	672751,237	8165100,15	8165100,15	672751,237	787,047	-9,57	796,617
7214	M-428	ALB	-16,35241827	-49,22506421	22S	672749,631	8165097,573	8165097,573	672749,631	787,176	-9,57	796,746
7215	M-429	ACOST	-16,3523953	-49,22504244	22S	672756,142	8165104,584	8165104,584	672756,142	786,966	-9,57	796,536
7216	M-430	BO	-16,35238973	-49,22503624	22S	672757,994	8165106,279	8165106,279	672757,994	786,97	-9,57	796,54
7217	M-431	BO	-16,35237328	-49,22501972	22S	672762,93	8165111,297	8165111,297	672762,93	786,819	-9,57	796,389
7218	M-432	ACOST	-16,35236418	-49,22500994	22S	672765,851	8165114,07	8165114,07	672765,851	786,729	-9,57	796,299
7219	M-433	PT	-16,35236162	-49,22500712	22S	672766,695	8165114,851	8165114,851	672766,695	786,318	-9,57	795,888
7220	M-434	TN	-16,3523537	-49,2249967	22S	672769,804	8165117,261	8165117,261	672769,804	785,413	-9,57	794,983
7221	M-435	TN	-16,3523396	-49,22498484	22S	672773,352	8165121,566	8165121,566	672773,352	785,075	-9,57	794,645
7222	M-436	TN	-16,35232272	-49,22496829	22S	672778,3	8165126,716	8165126,716	672778,3	785,562	-9,57	795,132
7223	M-437	TN	-16,35231454	-49,22496105	22S	672780,468	8165129,212	8165129,212	672780,468	785,849	-9,57	795,419
7224	M-438	PT	-16,35230783	-49,22495198	22S	672783,171	8165131,253	8165131,253	672783,171	786,76	-9,57	796,33
7225	M-439	ACOST	-16,35230224	-49,22495028	22S	672783,691	8165132,967	8165132,967	672783,691	786,895	-9,57	796,465

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
7226	M-440	BO	-16,35229558	-49,22494439	22S	672785,452	8165135	8165135	672785,452	786,962	-9,57	796,532
7227	M-441	BO	-16,3522778	-49,22493048	22S	672789,618	8165140,432	8165140,432	672789,618	786,846	-9,57	796,416
7228	M-442	ACOST	-16,35227063	-49,22492493	22S	672791,281	8165142,623	8165142,623	672791,281	786,645	-9,57	796,215
7229	M-443	TN	-16,35226206	-49,22491907	22S	672793,04	8165145,242	8165145,242	672793,04	786,626	-9,57	796,196
7230	M-444	TN	-16,3521716	-49,22501417	22S	672765,077	8165173,277	8165173,277	672765,077	786,112	-9,57	795,682
7231	M-445	ACOST	-16,35217903	-49,22502571	22S	672761,637	8165171,021	8165171,021	672761,637	786,033	-9,57	795,603
7232	M-446	BO	-16,35218416	-49,2250323	22S	672759,672	8165169,46	8165169,46	672759,672	786,131	-9,57	795,701
7233	M-447	BO	-16,35219912	-49,22504959	22S	672754,509	8165164,901	8165164,901	672754,509	786,273	-9,57	795,843
7234	M-448	ACOST	-16,35220383	-49,22505465	22S	672752,998	8165163,465	8165163,465	672752,998	786,189	-9,57	795,759
7235	M-449	PT	-16,35220607	-49,22506132	22S	672751,016	8165162,793	8165162,793	672751,016	786,268	-9,57	795,838
7236	M-450	TN	-16,35222669	-49,225082	22S	672744,834	8165156,505	8165156,505	672744,834	784,879	-9,57	794,449
7237	M-451	TN	-16,35223517	-49,22509204	22S	672741,837	8165153,924	8165153,924	672741,837	784,431	-9,57	794,001
7238	M-452	TN	-16,35224792	-49,22510619	22S	672737,611	8165150,037	8165150,037	672737,611	784,888	-9,57	794,458
7239	M-453	PT	-16,35225783	-49,22511725	22S	672734,308	8165147,019	8165147,019	672734,308	785,528	-9,57	795,098
7240	M-454	ACOST	-16,3522616	-49,22512051	22S	672733,332	8165145,865	8165145,865	672733,332	786,064	-9,57	795,634
7241	M-455	BO	-16,35226966	-49,22513066	22S	672730,304	8165143,413	8165143,413	672730,304	785,975	-9,57	795,545
7242	M-456	BO	-16,35228593	-49,22514718	22S	672725,367	8165138,453	8165138,453	672725,367	786,139	-9,57	795,709
7243	M-457	ACOST	-16,35229218	-49,22515355	22S	672723,462	8165136,546	8165136,546	672723,462	786,162	-9,57	795,732
7244	M-458	ACOST	-16,35229347	-49,22515561	22S	672722,85	8165136,155	8165136,155	672722,85	786,224	-9,57	795,794
7245	M-459	TN	-16,35230847	-49,22517155	22S	672718,087	8165131,581	8165131,581	672718,087	785,35	-9,57	794,92
7246	M-460	TN	-16,3523125	-49,22517376	22S	672717,421	8165130,348	8165130,348	672717,421	786,127	-9,57	795,697
7247	M-461	ALB	-16,35231759	-49,22517909	22S	672715,831	8165128,796	8165128,796	672715,831	786,208	-9,57	795,778
7248	M-462	PT	-16,35228747	-49,22519568	22S	672710,986	8165138,095	8165138,095	672710,986	785,989	-9,57	795,559

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
17801	M-463	TN	-16,35154953	-49,22546507	22S	672632,965	8165365,569	8165365,569	672632,965	774,976	-9,57	784,546
17804	M-464	TN	-16,35155696	-49,2254799	22S	672628,553	8165363,321	8165363,321	672628,553	774,701	-9,57	784,271
17805	M-465	TN	-16,35156881	-49,22549473	22S	672624,126	8165359,714	8165359,714	672624,126	775,308	-9,57	784,878
17810	M-466	TN	-16,3515737	-49,22550272	22S	672621,745	8165358,228	8165358,228	672621,745	775,967	-9,57	785,537
17815	M-467	BO	-16,35158485	-49,22551938	22S	672616,779	8165354,841	8165354,841	672616,779	776,859	-9,57	786,429
17820	M-468	BO	-16,35159866	-49,22553755	22S	672611,361	8165350,64	8165350,64	672611,361	776,899	-9,57	786,469
17822	M-469	TN	-16,351604	-49,2255471	22S	672608,515	8165349,022	8165349,022	672608,515	776,65	-9,57	786,22
17824	M-470	TN	-16,3516125	-49,22555968	22S	672604,765	8165346,438	8165346,438	672604,765	776,113	-9,57	785,683
17827	M-471	TN	-16,35161511	-49,22556442	22S	672603,356	8165345,647	8165345,647	672603,356	775,265	-9,57	784,835
17829	M-472	TN	-16,35161623	-49,22556556	22S	672603,014	8165345,307	8165345,307	672603,014	774,617	-9,57	784,187
17840	M-473	TN	-16,35164747	-49,22560218	22S	672592,081	8165335,79	8165335,79	672592,081	776,706	-9,57	786,276
17843	M-474	TN	-16,35165103	-49,22560516	22S	672591,189	8165334,704	8165334,704	672591,189	777,721	-9,57	787,291
17847	M-475	BO	-16,35165539	-49,22561066	22S	672589,548	8165333,377	8165333,377	672589,548	777,962	-9,57	787,532
17850	M-476	BO	-16,35166864	-49,22562936	22S	672583,972	8165329,348	8165329,348	672583,972	777,875	-9,57	787,445
17853	M-477	TN	-16,3516731	-49,22563837	22S	672581,29	8165327,999	8165327,999	672581,29	777,771	-9,57	787,341
17854	M-478	TN	-16,35167991	-49,22564531	22S	672579,217	8165325,923	8165325,923	672579,217	777,446	-9,57	787,016
17857	M-479	TN	-16,35168751	-49,22565762	22S	672575,55	8165323,615	8165323,615	672575,55	775,107	-9,57	784,677
17860	M-480	TN	-16,35169833	-49,22567063	22S	672571,667	8165320,321	8165320,321	672571,667	775,985	-9,57	785,555
17868	M-481	TN	-16,35170241	-49,22567485	22S	672570,406	8165319,077	8165319,077	672570,406	775,932	-9,57	785,502
17875	M-482	NA	-16,35169868	-49,22569217	22S	672565,282	8165320,264	8165320,264	672565,282	775,115	-9,57	784,685
17876	M-483	TN	-16,35168057	-49,22570174	22S	672562,49	8165325,856	8165325,856	672562,49	776,818	-9,57	786,388
17878	M-484	POSTE	-16,35163212	-49,22571003	22S	672560,151	8165340,766	8165340,766	672560,151	776,111	-9,57	785,681
17881	M-485	TN	-16,35160022	-49,22575104	22S	672548,076	8165350,672	8165350,672	672548,076	775,8	-9,57	785,37

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
17884	M-486	TN	-16,35159161	-49,22573797	22S	672551,97	8165353,286	8165353,286	672551,97	776,211	-9,57	785,781
17887	M-487	TN	-16,35158142	-49,22572385	22S	672556,18	8165356,383	8165356,383	672556,18	776,75	-9,57	786,32
17890	M-488	BO	-16,3515697	-49,22570784	22S	672560,956	8165359,948	8165359,948	672560,956	777,511	-9,57	787,081
17897	M-489	BO	-16,35155556	-49,2256895	22S	672566,426	8165364,25	8165364,25	672566,426	777,694	-9,57	787,264
17899	M-490	TN	-16,35155164	-49,22568225	22S	672568,587	8165365,439	8165365,439	672568,587	777,546	-9,57	787,116
17902	M-491	POSTE	-16,35155044	-49,22568009	22S	672569,229	8165365,804	8165365,804	672569,229	777,099	-9,57	786,669
17905	M-492	TN	-16,35154775	-49,22567678	22S	672570,217	8165366,622	8165366,622	672570,217	776,791	-9,57	786,361
17907	M-493	TN	-16,35153167	-49,22565756	22S	672575,955	8165371,517	8165371,517	672575,955	776,014	-9,57	785,584
17910	M-494	TN	-16,35151514	-49,22563775	22S	672581,868	8165376,553	8165376,553	672581,868	776,139	-9,57	785,709
17913	M-495	TN	-16,35150897	-49,22562658	22S	672585,194	8165378,421	8165378,421	672585,194	776,491	-9,57	786,061
17918	M-496	POSTE	-16,35151105	-49,22562347	22S	672586,111	8165377,774	8165377,774	672586,111	776,593	-9,57	786,163
17921	M-497	BO	-16,35150106	-49,2256131	22S	672589,208	8165380,822	8165380,822	672589,208	776,591	-9,57	786,161
17922	M-498	BO	-16,35148835	-49,22559367	22S	672594,999	8165384,681	8165384,681	672594,999	776,528	-9,57	786,098
17928	M-499	TN	-16,35148066	-49,22558359	22S	672598,007	8165387,022	8165387,022	672598,007	776,207	-9,57	785,777
17933	M-500	TN	-16,35147371	-49,2255748	22S	672600,63	8165389,137	8165389,137	672600,63	775,443	-9,57	785,013
17936	M-501	TN	-16,35146941	-49,22556859	22S	672602,48	8165390,444	8165390,444	672602,48	774,98	-9,57	784,55
17939	M-502	TN	-16,35146698	-49,2255639	22S	672603,876	8165391,179	8165391,179	672603,876	775,025	-9,57	784,595
17946	M-503	TN	-16,35146076	-49,22555465	22S	672606,634	8165393,069	8165393,069	672606,634	774,991	-9,57	784,561
17948	M-504	POSTE	-16,35141576	-49,22563451	22S	672583,073	8165407,093	8165407,093	672583,073	776,588	-9,57	786,158
17952	M-505	TN	-16,35136987	-49,22563657	22S	672582,575	8165421,202	8165421,202	672582,575	774,934	-9,57	784,504
17953	M-506	TN	-16,35137258	-49,22563949	22S	672581,704	8165420,376	8165420,376	672581,704	775,099	-9,57	784,669
17960	M-507	TN	-16,35137872	-49,22564661	22S	672579,577	8165418,506	8165418,506	672579,577	776,721	-9,57	786,291
17965	M-508	TN	-16,35138641	-49,22565794	22S	672576,202	8165416,169	8165416,169	672576,202	777	-9,57	786,57

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
17968	M-509	BO	-16,3513927	-49,22566599	22S	672573,798	8165414,256	8165414,256	672573,798	777,067	-9,57	786,637
17971	M-510	BO	-16,35140454	-49,22568709	22S	672567,516	8165410,665	8165410,665	672567,516	777,231	-9,57	786,801
17972	M-511	TN	-16,35141284	-49,22569748	22S	672564,415	8165408,141	8165408,141	672564,415	777,034	-9,57	786,604
17975	M-512	POSTE	-16,35139433	-49,22571333	22S	672559,764	8165413,869	8165413,869	672559,764	777,133	-9,57	786,703
17978	M-513	TN	-16,3514291	-49,22571754	22S	672558,429	8165403,191	8165403,191	672558,429	776,766	-9,57	786,336
17981	M-514	TN	-16,3514413	-49,22573415	22S	672553,475	8165399,481	8165399,481	672553,475	776,69	-9,57	786,26
17984	M-515	TN	-16,35145645	-49,22576008	22S	672545,753	8165394,885	8165394,885	672545,753	777,712	-9,57	787,282
17987	M-516	BO	-16,35146164	-49,22576592	22S	672544,009	8165393,303	8165393,303	672544,009	777,799	-9,57	787,369
17998	M-517	BO	-16,3514735	-49,2257856	22S	672538,145	8165389,705	8165389,705	672538,145	777,679	-9,57	787,249
18001	M-518	TN	-16,35148074	-49,22579357	22S	672535,764	8165387,498	8165387,498	672535,764	777,49	-9,57	787,06
18004	M-519	TN	-16,35149291	-49,2258091	22S	672531,131	8165383,795	8165383,795	672531,131	776,912	-9,57	786,482
18008	M-520	TN	-16,35149765	-49,22581386	22S	672529,708	8165382,348	8165382,348	672529,708	776,345	-9,57	785,915
18011	M-521	POSTE	-16,35146631	-49,22583446	22S	672523,681	8165392,033	8165392,033	672523,681	776,603	-9,57	786,173
18014	M-522	TN	-16,35146727	-49,22588658	22S	672508,228	8165391,861	8165391,861	672508,228	776,684	-9,57	786,254
18015	M-523	TN	-16,35144911	-49,2258716	22S	672512,713	8165397,408	8165397,408	672512,713	776,765	-9,57	786,335
18018	M-524	TN	-16,35142975	-49,22585377	22S	672518,046	8165403,316	8165403,316	672518,046	777,282	-9,57	786,852
18021	M-525	TN	-16,35142484	-49,22584873	22S	672519,554	8165404,812	8165404,812	672519,554	777,302	-9,57	786,872
18024	M-526	TN	-16,35142018	-49,22584452	22S	672520,811	8165406,234	8165406,234	672520,811	777,928	-9,57	787,498
18031	M-527	BO	-16,35141285	-49,22583565	22S	672523,46	8165408,467	8165408,467	672523,46	778,103	-9,57	787,673
18034	M-528	BO	-16,3513986	-49,2258172	22S	672528,963	8165412,803	8165412,803	672528,963	778,231	-9,57	787,801
18037	M-529	TN	-16,3513946	-49,22581051	22S	672530,956	8165414,018	8165414,018	672530,956	778,131	-9,57	787,701
18040	M-530	TN	-16,35138802	-49,22580346	22S	672533,062	8165416,022	8165416,022	672533,062	777,537	-9,57	787,107
18043	M-531	TN	-16,35137791	-49,22579189	22S	672536,518	8165419,104	8165419,104	672536,518	777,208	-9,57	786,778

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
18046	M-532	TN	-16,3513603	-49,22576848	22S	672543,499	8165424,459	8165424,459	672543,499	777,209	-9,57	786,779
18048	M-533	TN	-16,3513455	-49,2257476	22S	672549,727	8165428,96	8165428,96	672549,727	777,514	-9,57	787,084
18053	M-534	BO	-16,35133874	-49,22574022	22S	672551,931	8165431,02	8165431,02	672551,931	777,625	-9,57	787,195
18055	M-535	BO	-16,35132326	-49,22572196	22S	672557,38	8165435,735	8165435,735	672557,38	777,649	-9,57	787,219
18059	M-536	TN	-16,35131517	-49,22571216	22S	672560,305	8165438,196	8165438,196	672560,305	777,438	-9,57	787,008
18077	M-537	TN	-16,35169376	-49,22539182	22S	672654,321	8165321,061	8165321,061	672654,321	778,089	-9,57	787,659
18080	M-538	TN	-16,35169821	-49,22539657	22S	672652,902	8165319,704	8165319,704	672652,902	777,569	-9,57	787,139
18081	M-539	TN	-16,35170702	-49,2254058	22S	672650,144	8165317,016	8165317,016	672650,144	777,843	-9,57	787,413
18085	M-540	TN	-16,35170892	-49,22540913	22S	672649,153	8165316,442	8165316,442	672649,153	778,32	-9,57	787,89
18088	M-541	POSTE	-16,35173052	-49,2253922	22S	672654,118	8165309,76	8165309,76	672654,118	778,655	-9,57	788,225
18091	M-542	BO	-16,35171691	-49,22541717	22S	672646,748	8165314,004	8165314,004	672646,748	778,474	-9,57	788,044
18094	M-543	BO	-16,35173321	-49,22543448	22S	672641,578	8165309,036	8165309,036	672641,578	778,606	-9,57	788,176
18097	M-544	TN	-16,3517398	-49,22544221	22S	672639,271	8165307,027	8165307,027	672639,271	778,49	-9,57	788,06
18101	M-545	POSTE	-16,3517422	-49,22544468	22S	672638,533	8165306,296	8165306,296	672638,533	778,456	-9,57	788,026
18103	M-546	TN	-16,35174636	-49,22545174	22S	672636,428	8165305,036	8165305,036	672636,428	778,224	-9,57	787,794
18108	M-547	TN	-16,35175983	-49,22546689	22S	672631,906	8165300,931	8165300,931	672631,906	777,618	-9,57	787,188
18109	M-548	TN	-16,35177836	-49,22549295	22S	672624,136	8165295,298	8165295,298	672624,136	777,557	-9,57	787,127
18112	M-549	TN	-16,35178634	-49,22550265	22S	672621,24	8165292,868	8165292,868	672621,24	779,059	-9,57	788,629
18115	M-550	BO	-16,35179167	-49,22551015	22S	672619,004	8165291,246	8165291,246	672619,004	779,19	-9,57	788,76
18124	M-551	BO	-16,35180613	-49,22552792	22S	672613,7	8165286,845	8165286,845	672613,7	779,152	-9,57	788,722
18126	M-552	TN	-16,35181213	-49,22553645	22S	672611,158	8165285,021	8165285,021	672611,158	778,873	-9,57	788,443
18129	M-553	TN	-16,35181947	-49,22554546	22S	672608,469	8165282,787	8165282,787	672608,469	777,609	-9,57	787,179
18136	M-554	POSTE	-16,35193778	-49,22547358	22S	672629,481	8165246,249	8165246,249	672629,481	779,774	-9,57	789,344

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
18138	M-555	TN	-16,35195722	-49,22547218	22S	672629,848	8165240,268	8165240,268	672629,848	779,895	-9,57	789,465
18140	M-556	TN	-16,35195286	-49,22546448	22S	672632,14	8165241,589	8165241,589	672632,14	779,91	-9,57	789,48
18142	M-557	TN	-16,35194457	-49,22545154	22S	672635,996	8165244,108	8165244,108	672635,996	779,803	-9,57	789,373
18148	M-558	TN	-16,35194083	-49,22544501	22S	672637,942	8165245,243	8165245,243	672637,942	780,69	-9,57	790,26
18156	M-559	TN	-16,3519085	-49,22540263	22S	672650,583	8165255,079	8165255,079	672650,583	779,587	-9,57	789,157
18158	M-560	TN	-16,35189458	-49,22538246	22S	672656,597	8165259,309	8165259,309	672656,597	779,095	-9,57	788,665
18161	M-561	TN	-16,35188058	-49,22536846	22S	672660,783	8165263,577	8165263,577	672660,783	779,549	-9,57	789,119
18163	M-562	POSTE	-16,35186391	-49,22535365	22S	672665,214	8165268,668	8165268,668	672665,214	779,977	-9,57	789,547
18164	M-563	TN	-16,35186097	-49,22535022	22S	672666,238	8165269,562	8165269,562	672666,238	780,165	-9,57	789,735
18166	M-564	BO	-16,35185411	-49,22534249	22S	672668,546	8165271,654	8165271,654	672668,546	780,225	-9,57	789,795
18172	M-565	BO	-16,35184014	-49,22532333	22S	672674,258	8165275,901	8165275,901	672674,258	780,156	-9,57	789,726
18174	M-566	TN	-16,35183299	-49,22531475	22S	672676,819	8165278,078	8165278,078	672676,819	780,014	-9,57	789,584
18176	M-567	POSTE	-16,35182487	-49,225318	22S	672675,878	8165280,583	8165280,583	672675,878	779,98	-9,57	789,55
18184	M-568	BO	-16,351944	-49,22524397	22S	672697,526	8165243,787	8165243,787	672697,526	781,831	-9,57	791,401
18194	M-569	TN	-16,35199913	-49,22530742	22S	672678,581	8165226,991	8165226,991	672678,581	780,331	-9,57	789,901
18195	M-570	TN	-16,35200996	-49,22532018	22S	672674,772	8165223,693	8165223,693	672674,772	781,111	-9,57	790,681
18196	M-571	TN	-16,35201902	-49,22533037	22S	672671,73	8165220,934	8165220,934	672671,73	781,601	-9,57	791,171
18199	M-572	POSTE	-16,35202541	-49,22532447	22S	672673,461	8165218,956	8165218,956	672673,461	781,667	-9,57	791,237
18201	M-573	BO	-16,3520283	-49,22533851	22S	672669,292	8165218,099	8165218,099	672669,292	781,848	-9,57	791,418
18206	M-574	BO	-16,35204227	-49,22535684	22S	672663,826	8165213,85	8165213,85	672663,826	781,961	-9,57	791,531
18208	M-575	TN	-16,35204985	-49,22536691	22S	672660,822	8165211,543	8165211,543	672660,822	781,833	-9,57	791,403
18210	M-576	TN	-16,35205405	-49,22537244	22S	672659,173	8165210,267	8165210,267	672659,173	781,284	-9,57	790,854
18212	M-577	POSTE	-16,35205814	-49,22537719	22S	672657,754	8165209,019	8165209,019	672657,754	781,02	-9,57	790,59

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
18214	M-578	TN	-16,35206626	-49,2253879	22S	672654,558	8165206,551	8165206,551	672654,558	781,115	-9,57	790,685
18216	M-579	TN	-16,35215573	-49,22531684	22S	672675,401	8165178,879	8165178,879	672675,401	782,332	-9,57	791,902
18218	M-580	TN	-16,35215042	-49,22531034	22S	672677,339	8165180,494	8165180,494	672677,339	781,721	-9,57	791,291
18220	M-581	TN	-16,35214339	-49,22530099	22S	672680,128	8165182,635	8165182,635	672680,128	781,831	-9,57	791,401
18222	M-582	TN	-16,35213908	-49,22529415	22S	672682,168	8165183,943	8165183,943	672682,168	782,922	-9,57	792,492
18224	M-583	BO	-16,35213338	-49,22528555	22S	672684,731	8165185,673	8165185,673	672684,731	782,982	-9,57	792,552
18230	M-584	BO	-16,35211894	-49,22526805	22S	672689,955	8165190,072	8165190,072	672689,955	782,878	-9,57	792,448
18232	M-585	TN	-16,35210968	-49,22525518	22S	672693,79	8165192,885	8165192,885	672693,79	782,598	-9,57	792,168
18234	M-586	TN	-16,35209587	-49,22523609	22S	672699,485	8165197,086	8165197,086	672699,485	781,491	-9,57	791,061
18236	M-587	TN	-16,35208537	-49,22522295	22S	672703,405	8165200,281	8165200,281	672703,405	781,355	-9,57	790,925
18242	M-588	BO	-16,35205328	-49,22518378	22S	672715,094	8165210,053	8165210,053	672715,094	783,1	-9,57	792,67
18243	M-589	BO	-16,3520448	-49,22516198	22S	672721,579	8165212,606	8165212,606	672721,579	782,99	-9,57	792,56
18253	M-590	TN	-16,35203696	-49,22515344	22S	672724,128	8165214,996	8165214,996	672724,128	782,87	-9,57	792,44
18255	M-591	TN	-16,35203451	-49,22514606	22S	672726,321	8165215,73	8165215,73	672726,321	782,922	-9,57	792,492
18268	M-592	TN	-16,35210523	-49,22523331	22S	672700,285	8165194,202	8165194,202	672700,285	781,639	-9,57	791,209
18269	M-593	TN	-16,35209409	-49,22524062	22S	672698,146	8165197,644	8165197,644	672698,146	781,675	-9,57	791,245
18270	M-594	TN	-16,35208969	-49,22524201	22S	672697,745	8165198,999	8165198,999	672697,745	781,555	-9,57	791,125
18271	M-595	TN	-16,35208067	-49,22524469	22S	672696,973	8165201,777	8165201,777	672696,973	781,524	-9,57	791,094
18276	M-596	TN	-16,35207726	-49,22524563	22S	672696,703	8165202,828	8165202,828	672696,703	781,486	-9,57	791,056
18282	M-597	TN	-16,35206862	-49,22521316	22S	672706,348	8165205,408	8165205,408	672706,348	782,171	-9,57	791,741
18289	M-598	TN	-16,35203121	-49,22531125	22S	672677,366	8165217,14	8165217,14	672677,366	781,549	-9,57	791,119
18290	M-599	TN	-16,35202972	-49,22530416	22S	672679,471	8165217,581	8165217,581	672679,471	781,421	-9,57	790,991
18294	M-600	TN	-16,35202035	-49,22528015	22S	672686,611	8165220,404	8165220,404	672686,611	780,618	-9,57	790,188

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENDAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
18298	M-601	TN	-16,35201942	-49,2252787	22S	672687,043	8165220,687	8165220,687	672687,043	780,82	-9,57	790,39
18299	M-602	TN	-16,35201716	-49,22527293	22S	672688,761	8165221,368	8165221,368	672688,761	781,381	-9,57	790,951

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
3	M-233	PT	-16,34264976	-49,2331456		671554,073	8166880,435	8166880,435	671554,073	783,672	-9,57	793,242
5	M-233	MG	-16,34264651	-49,23315031		671552,684	8166881,447	8166881,447	671552,684	783,56	-9,57	793,13
8	M-233	MG	-16,34263116	-49,23315047		671552,674	8166886,166	8166886,166	671552,674	783,367	-9,57	792,937
9	M-233	MG	-16,34262884	-49,23314079		671555,55	8166886,856	8166886,856	671555,55	783,407	-9,57	792,977
10	M-233	PT	-16,34263054	-49,23314065		671555,586	8166886,331	8166886,331	671555,586	783,51	-9,57	793,08
11	M-233	BO	-16,34259828	-49,23315443		671551,58	8166896,28	8166896,28	671551,58	782,976	-9,57	792,546
12	M-233	BO	-16,34259802	-49,23316433		671548,647	8166896,385	8166896,385	671548,647	783,113	-9,57	792,683
13	M-233	BO	-16,34259789	-49,23317493		671545,506	8166896,45	8166896,45	671545,506	783,062	-9,57	792,632
14	M-233	BO	-16,34259727	-49,23318281		671543,17	8166896,66	8166896,66	671543,17	782,911	-9,57	792,481
16	M-233	MG	-16,34259214	-49,23319164		671540,565	8166898,257	8166898,257	671540,565	782,868	-9,57	792,438
18	M-233	MG	-16,34255475	-49,23321978		671532,316	8166909,815	8166909,815	671532,316	782,715	-9,57	792,285
19	M-233	MG	-16,34254682	-49,23322567		671530,591	8166912,268	8166912,268	671530,591	782,411	-9,57	791,981
21	M-233	BO	-16,34253845	-49,2332295		671529,476	8166914,849	8166914,849	671529,476	782,316	-9,57	791,886
23	M-233	BO	-16,3425254	-49,23322445		671531,003	8166918,848	8166918,848	671531,003	782,164	-9,57	791,734
24	M-233	CERCA	-16,34093115	-49,23476632		671077,853	8167412,545	8167412,545	671077,853	782,096	-9,57	791,666
25	M-233	BO	-16,34251815	-49,23320849		671535,754	8166921,041	8166921,041	671535,754	782,024	-9,57	791,594
27	M-233	BO	-16,34101833	-49,23466148		671108,718	8167385,5	8167385,5	671108,718	780,337	-9,57	789,907
28	M-233	BO	-16,34249251	-49,23323769		671527,159	8166928,989	8166928,989	671527,159	781,835	-9,57	791,405
31	M-233	BO	-16,34249556	-49,23326104		671520,231	8166928,107	8166928,107	671520,231	781,799	-9,57	791,369
33	M-233	BO	-16,34094057	-49,23455422		671140,705	8167409,147	8167409,147	671140,705	780,736	-9,57	790,306
34	M-233	MG	-16,34248545	-49,23327663		671515,633	8166931,253	8166931,253	671515,633	781,63	-9,57	791,2
35	M-233	PT	-16,34248494	-49,23327502		671516,112	8166931,406	8166931,406	671516,112	781,797	-9,57	791,367
36	M-233	MG	-16,34250309	-49,23330066		671508,467	8166925,887	8166925,887	671508,467	781,725	-9,57	791,295

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
37	M-233	MAG_BO	-16,34097539	-49,23445252		671170,769	8167398,204	8167398,204	671170,769	779,056	-9,57	788,626
39	M-233	MG	-16,34253288	-49,23327425		671516,224	8166916,669	8166916,669	671516,224	782,179	-9,57	791,749
40	M-233	MG	-16,3425605	-49,23324451		671524,972	8166908,109	8166908,109	671524,972	782,61	-9,57	792,18
41	M-233	BO	-16,34102168	-49,23452805		671148,263	8167384,154	8167384,154	671148,263	779,44	-9,57	789,01
42	M-233	MG	-16,3425656	-49,23324005		671526,281	8166906,528	8166906,528	671526,281	782,712	-9,57	792,282
44	M-233	MG	-16,34262316	-49,23321007		671535,027	8166888,764	8166888,764	671535,027	783,113	-9,57	792,683
45	M-233	MG	-16,3426275	-49,2332029		671537,141	8166887,413	8166887,413	671537,141	783,172	-9,57	792,742
46	M-233	MG	-16,34264502	-49,23318965		671541,026	8166881,997	8166881,997	671541,026	783,349	-9,57	792,919
48	M-233	TN	-16,34263315	-49,23320889		671535,35	8166885,691	8166885,691	671535,35	783,551	-9,57	793,121
49	M-233	TN	-16,34264672	-49,2332254		671530,423	8166881,559	8166881,559	671530,423	783,674	-9,57	793,244
52	M-233	BO	-16,34117597	-49,23450807		671153,809	8167336,681	8167336,681	671153,809	777,211	-9,57	786,781
53	M-233	ACOST	-16,34268157	-49,23326722		671517,942	8166870,946	8166870,946	671517,942	784,939	-9,57	794,509
54	M-233	TN	-16,34268352	-49,233272		671516,52	8166870,36	8166870,36	671516,52	784,722	-9,57	794,292
55	M-233	TN	-16,3411441	-49,23445779		671168,792	8167346,359	8167346,359	671168,792	777,483	-9,57	787,053
56	M-233	TN	-16,34269998	-49,23328909		671511,414	8166865,34	8166865,34	671511,414	783,613	-9,57	793,183
57	M-233	ACOST	-16,34270479	-49,23329574		671509,43	8166863,877	8166863,877	671509,43	784,131	-9,57	793,701
58	M-233	TN	-16,34112145	-49,23442165		671179,56	8167353,234	8167353,234	671179,56	777,226	-9,57	786,796
60	M-233	ACOST	-16,34272875	-49,23332695		671500,12	8166856,587	8166856,587	671500,12	784,152	-9,57	793,722
61	M-233	ACE	-16,34273686	-49,23333707		671497,099	8166854,119	8166854,119	671497,099	784,068	-9,57	793,638
62	M-233	TN	-16,34274339	-49,2333472		671494,08	8166852,134	8166852,134	671494,08	784,338	-9,57	793,908
63	M-233	TN	-16,3412193	-49,23435561		671198,897	8167323	8167323	671198,897	775,363	-9,57	784,933
64	M-233	TN	-16,34263709	-49,23343518		671468,262	8166885,017	8166885,017	671468,262	782,952	-9,57	792,522
65	M-233	TN	-16,3426305	-49,23342675		671470,777	8166887,022	8166887,022	671470,777	782,924	-9,57	792,494

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
67	M-233	ACOST	-16,34261888	-49,23341299		671474,883	8166890,562	8166890,562	671474,883	782,832	-9,57	792,402
70	M-233	ACOST	-16,34259267	-49,23338206		671484,116	8166898,547	8166898,547	671484,116	782,735	-9,57	792,305
71	M-233	TN	-16,3425912	-49,23337832		671485,231	8166898,989	8166898,989	671485,231	782,544	-9,57	792,114
72	M-233	TN	-16,34129126	-49,23446135		671167,376	8167301,132	8167301,132	671167,376	774,759	-9,57	784,329
73	M-233	TN	-16,34258308	-49,23336563		671489,011	8166901,454	8166901,454	671489,011	781,909	-9,57	791,479
74	M-233	TN	-16,34257386	-49,23335577		671491,958	8166904,265	8166904,265	671491,958	783,515	-9,57	793,085
75	M-233	TN	-16,34138052	-49,23439405		671187,106	8167273,536	8167273,536	671187,106	772,717	-9,57	782,287
76	M-233	BO	-16,34137264	-49,23438349		671190,257	8167275,932	8167275,932	671190,257	772,816	-9,57	782,386
77	M-233	BO	-16,34135796	-49,23436489		671195,807	8167280,402	8167280,402	671195,807	772,835	-9,57	782,405
79	M-233	TN	-16,34254091	-49,23331463		671504,233	8166914,295	8166914,295	671504,233	782,196	-9,57	791,766
80	M-233	TN	-16,34253274	-49,23330573		671506,893	8166916,785	8166916,785	671506,893	782,107	-9,57	791,677
81	M-233	TN	-16,34133179	-49,2343303		671206,125	8167288,363	8167288,363	671206,125	774,115	-9,57	783,685
82	M-233	BO	-16,34132827	-49,23432117		671208,839	8167289,424	8167289,424	671208,839	774,111	-9,57	783,681
83	M-233	BO	-16,34131413	-49,23430247		671214,418	8167293,725	8167293,725	671214,418	774,017	-9,57	783,587
87	M-233	TN	-16,34242987	-49,23341096		671475,95	8166948,657	8166948,657	671475,95	781,727	-9,57	791,297
88	M-233	MAG_BO	-16,3412707	-49,23423947		671233,199	8167306,926	8167306,926	671233,199	773,319	-9,57	782,889
89	M-233	BO	-16,34243592	-49,23342408		671472,048	8166946,827	8166946,827	671472,048	781,632	-9,57	791,202
90	M-233	BO	-16,34244719	-49,2334452		671465,759	8166943,414	8166943,414	671465,759	781,746	-9,57	791,316
91	M-233	ACOST	-16,34244977	-49,23345011		671464,297	8166942,631	8166942,631	671464,297	781,72	-9,57	791,29
92	M-233	TN	-16,34245491	-49,23345997		671461,362	8166941,075	8166941,075	671461,362	780,783	-9,57	790,353
94	M-233	TN	-16,34246454	-49,23347211		671457,738	8166938,144	8166938,144	671457,738	780,731	-9,57	790,301
96	M-233	BO	-16,34247503	-49,23348689		671453,332	8166934,953	8166934,953	671453,332	781,124	-9,57	790,694
97	M-233	BO	-16,3424889	-49,23350548		671447,786	8166930,735	8166930,735	671447,786	781,126	-9,57	790,696

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENADAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
99	M-233	BO	-16,34146597	-49,23428019		671220,649	8167247	8167247	671220,649	770,552	-9,57	780,122
103	M-233	CERCA	-16,34156196	-49,23427523		671221,882	8167217,482	8167217,482	671221,882	767,614	-9,57	777,184
105	M-233	TN	-16,34155607	-49,23426552		671224,776	8167219,272	8167219,272	671224,776	767,875	-9,57	777,445
108	M-233	BO	-16,34152787	-49,23423156		671234,913	8167227,859	8167227,859	671234,913	769,346	-9,57	778,916
125	M-233	TN	-16,34153966	-49,23409466		671275,466	8167223,909	8167223,909	671275,466	768,102	-9,57	777,672
127	M-233	BO	-16,34155861	-49,23411348		671269,841	8167218,131	8167218,131	671269,841	770,554	-9,57	780,124
130	M-233	TN	-16,34158458	-49,23415116		671258,608	8167210,236	8167210,236	671258,608	768,101	-9,57	777,671
137	M-233	NA	-16,34170754	-49,23418091		671249,486	8167172,511	8167172,511	671249,486	766,458	-9,57	776,028
140	M-233	TN	-16,341685	-49,23415461		671257,336	8167179,378	8167179,378	671257,336	767,901	-9,57	777,471
153	M-233	TN	-16,3415629	-49,23399674		671304,435	8167216,536	8167216,536	671304,435	767,151	-9,57	776,721
154	M-233	TN	-16,34155532	-49,23398634		671307,539	8167218,841	8167218,841	671307,539	766,708	-9,57	776,278
158	M-233	MAG_BO	-16,34166182	-49,23396464		671313,709	8167186,052	8167186,052	671313,709	766,549	-9,57	776,119
161	M-233	TN	-16,34167461	-49,23398521		671307,581	8167182,17	8167182,17	671307,581	767,385	-9,57	776,955
162	M-233	TN	-16,34168602	-49,23399721		671303,993	8167178,69	8167178,69	671303,993	770,353	-9,57	779,923
163	M-233	BO	-16,34169249	-49,23400818		671300,726	8167176,727	8167176,727	671300,726	770,531	-9,57	780,101
165	M-233	TN	-16,34171051	-49,23403308		671293,3	8167171,247	8167171,247	671293,3	770,769	-9,57	780,339
172	M-233	TN	-16,34175389	-49,23409781		671274,006	8167158,066	8167158,066	671274,006	768,351	-9,57	777,921
177	M-233	BO	-16,34180026	-49,23404662		671289,067	8167143,692	8167143,692	671289,067	769,395	-9,57	778,965
179	M-233	TN	-16,34177891	-49,23401901		671297,304	8167150,189	8167150,189	671297,304	768,931	-9,57	778,501
181	M-233	TN	-16,34176864	-49,23400693		671300,911	8167153,317	8167153,317	671300,911	768,806	-9,57	778,376
185	M-233	TN	-16,34173513	-49,23396041		671314,783	8167163,508	8167163,508	671314,783	770,836	-9,57	780,406
186	M-233	TN	-16,34172457	-49,23394494		671319,393	8167166,716	8167166,716	671319,393	767,57	-9,57	777,14
193	M-233	MAG_BO	-16,34182464	-49,23383705		671351,13	8167135,701	8167135,701	671351,13	768,534	-9,57	778,104

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
194	M-233	TN	-16,34183128	-49,23384544		671348,628	8167133,682	8167133,682	671348,628	768,532	-9,57	778,102
206	M-233	TN	-16,34192933	-49,23396121		671314,069	8167103,818	8167103,818	671314,069	771,077	-9,57	780,647
207	M-233	TN	-16,341944	-49,23397587		671309,687	8167099,342	8167099,342	671309,687	771,165	-9,57	780,735
210	M-233	BO	-16,34200498	-49,23388562		671336,29	8167080,385	8167080,385	671336,29	772,678	-9,57	782,248
217	M-233	TN	-16,34193859	-49,2338002		671361,775	8167100,588	8167100,588	671361,775	772,926	-9,57	782,496
226	M-233	POSTE	-16,34187686	-49,23392387		671325,265	8167119,857	8167119,857	671325,265	770,954	-9,57	780,524
227	M-233	POSTE	-16,34175837	-49,23401612		671298,21	8167156,498	8167156,498	671298,21	768,804	-9,57	778,374
231	M-233	POSTE	-16,34129397	-49,23437908		671191,755	8167300,105	8167300,105	671191,755	774,081	-9,57	783,651
232	M-233	TUBO,GREIDE-NA	-16,34126639	-49,23438865		671188,987	8167308,604	8167308,604	671188,987	773,397	-9,57	782,967
329	M-233	na	-16,3416371	-49,23393674		671322,041	8167193,586	8167193,586	671322,041	765,565	-9,57	775,135
336	M-233	na	-16,34161599	-49,23391162		671329,539	8167200,015	8167200,015	671329,539	765,981	-9,57	775,551
338	M-233	TN	-16,3416232	-49,23390248		671332,23	8167197,777	8167197,777	671332,23	766,268	-9,57	775,838
354	M-233	na	-16,341772	-49,2341115		671269,904	8167152,533	8167152,533	671269,904	765,904	-9,57	775,474
355	M-233	TN	-16,34177376	-49,23411033		671270,246	8167151,989	8167151,989	671270,246	766,223	-9,57	775,793
360	M-233	na	-16,34177575	-49,23412464		671265,999	8167151,412	8167151,412	671265,999	765,962	-9,57	775,532
362	M-233	TN	-16,34177043	-49,23413431		671263,145	8167153,071	8167153,071	671263,145	766,107	-9,57	775,677
3686	M-233	TN	-16,34251282	-49,23353853		671437,932	8166923,461	8166923,461	671437,932	781,122	-9,57	790,692
3687	M-233	ACE	-16,34255315	-49,23350243		671448,533	8166910,98	8166910,98	671448,533	781,768	-9,57	791,338
3688	M-233	ACE	-16,34255328	-49,23348916		671452,467	8166910,906	8166910,906	671452,467	781,87	-9,57	791,44
3689	M-233	ACE	-16,34255426	-49,23347784		671455,819	8166910,578	8166910,578	671455,819	782,129	-9,57	791,699
3690	M-233	ACE	-16,34255448	-49,23346817		671458,685	8166910,489	8166910,489	671458,685	781,999	-9,57	791,569
3691	M-233	ACE	-16,34255323	-49,23346634		671459,231	8166910,869	8166910,869	671459,231	781,91	-9,57	791,48
3692	M-233	ACOST	-16,34254829	-49,2334704		671458,04	8166912,398	8166912,398	671458,04	781,836	-9,57	791,406

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
3693	M-233	ACOST	-16,3425407	-49,23347619		671456,342	8166914,742	8166914,742	671456,342	781,698	-9,57	791,268
3694	M-233	ACOST	-16,3425321	-49,23348307		671454,325	8166917,402	8166917,402	671454,325	781,564	-9,57	791,134
3695	M-233	ACE	-16,34258789	-49,23348544		671453,485	8166900,261	8166900,261	671453,485	782,235	-9,57	791,805
3696	M-233	ACE	-16,34259091	-49,23347426		671456,792	8166899,304	8166899,304	671456,792	782,236	-9,57	791,806
3697	M-233	ACE	-16,34259508	-49,2334608		671460,77	8166897,991	8166897,991	671460,77	782,354	-9,57	791,924
3698	M-233	ACE	-16,34259848	-49,23345253		671463,212	8166896,927	8166896,927	671463,212	782,443	-9,57	792,013
3699	M-233	ACE	-16,34260162	-49,23344656		671464,975	8166895,948	8166895,948	671464,975	782,47	-9,57	792,04
3700	M-233	ACE	-16,34260651	-49,23344152		671466,456	8166894,433	8166894,433	671466,456	782,447	-9,57	792,017
3701	M-233	ACE	-16,34261632	-49,23343375		671468,738	8166891,399	8166891,399	671468,738	782,586	-9,57	792,156
3702	M-233	TN	-16,34247254	-49,23352822		671441,085	8166935,819	8166935,819	671441,085	780,899	-9,57	790,469
3703	M-233	TN	-16,34238967	-49,23362367		671412,996	8166961,516	8166961,516	671412,996	779,16	-9,57	788,73
3704	M-233	TN	-16,34238218	-49,23361295		671416,192	8166963,793	8166963,793	671416,192	779,213	-9,57	788,783
3705	M-233	ACOST	-16,34237704	-49,23360508		671418,538	8166965,356	8166965,356	671418,538	779,06	-9,57	788,63
3706	M-233	BO	-16,34237235	-49,23359825		671420,574	8166966,781	8166966,781	671420,574	779,169	-9,57	788,739
3707	M-233	ACE	-16,34238437	-49,23362702		671412,014	8166963,155	8166963,155	671412,014	778,973	-9,57	788,543
3708	M-233	ACE	-16,34237339	-49,23362858		671411,581	8166966,532	8166966,532	671411,581	778,849	-9,57	788,419
3709	M-233	ACE	-16,34236169	-49,2336306		671411,011	8166970,133	8166970,133	671411,011	778,672	-9,57	788,242
3710	M-233	ACE	-16,34235119	-49,23363248		671410,479	8166973,367	8166973,367	671410,479	778,559	-9,57	788,129
3711	M-233	ACE	-16,34234195	-49,23363472		671409,836	8166976,212	8166976,212	671409,836	778,533	-9,57	788,103
3712	M-233	ACE	-16,34234031	-49,23363408		671410,031	8166976,713	8166976,713	671410,031	778,573	-9,57	788,143
3713	M-233	ACOST	-16,34234068	-49,23363328		671410,266	8166976,598	8166976,598	671410,266	778,563	-9,57	788,133
3714	M-233	ACOST	-16,34234668	-49,23362883		671411,57	8166974,744	8166974,744	671411,57	778,555	-9,57	788,125
3715	M-233	ACOST	-16,34235635	-49,23362142		671413,744	8166971,752	8166971,752	671413,744	778,699	-9,57	788,269

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
3716	M-233	ACOST	-16,34236659	-49,23361323		671416,147	8166968,585	8166968,585	671416,147	778,863	-9,57	788,433
3717	M-233	ACE	-16,34237807	-49,2336584		671402,73	8166965,165	8166965,165	671402,73	778,729	-9,57	788,299
3718	M-233	ACE	-16,34235693	-49,23366342		671401,292	8166971,675	8166971,675	671401,292	778,453	-9,57	788,023
3719	M-233	ACE	-16,34233683	-49,23367071		671399,18	8166977,869	8166977,869	671399,18	778,436	-9,57	788,006
3720	M-233	ACE	-16,34231674	-49,2336811		671396,151	8166984,069	8166984,069	671396,151	777,838	-9,57	787,408
3721	M-233	ACE	-16,34228439	-49,23369904		671390,911	8166994,057	8166994,057	671390,911	777,559	-9,57	787,129
3722	M-233	ACE	-16,34227841	-49,23370279		671389,815	8166995,904	8166995,904	671389,815	777,214	-9,57	786,784
3723	M-233	ACE	-16,34226216	-49,23371336		671386,723	8167000,925	8167000,925	671386,723	776,971	-9,57	786,541
3724	M-233	ACE	-16,34223085	-49,23373674		671379,869	8167010,604	8167010,604	671379,869	776,39	-9,57	785,96
3725	M-233	ACE	-16,34220216	-49,2337593		671373,25	8167019,476	8167019,476	671373,25	775,878	-9,57	785,448
3726	M-233	ACE	-16,34216653	-49,23378746		671364,992	8167030,495	8167030,495	671364,992	775,218	-9,57	784,788
3727	M-233	ACE	-16,3421306	-49,23381578		671356,683	8167041,605	8167041,605	671356,683	774,545	-9,57	784,115
3728	M-233	ACE	-16,34209945	-49,2338401		671349,551	8167051,237	8167051,237	671349,551	774,001	-9,57	783,571
3729	M-233	ACE	-16,34207671	-49,23385625		671344,819	8167058,265	8167058,265	671344,819	773,618	-9,57	783,188
3730	M-233	ACE	-16,3420535	-49,23387023		671340,732	8167065,433	8167065,433	671340,732	773,241	-9,57	782,811
3731	M-233	ACE	-16,34202896	-49,23388435		671336,608	8167073,011	8167073,011	671336,608	772,894	-9,57	782,464
3732	M-233	ACE	-16,34200839	-49,23389486		671333,542	8167079,357	8167079,357	671333,542	772,501	-9,57	782,071
3733	M-233	ACOST	-16,3419993	-49,23390219		671331,392	8167082,171	8167082,171	671331,392	772,343	-9,57	781,913
3734	M-233	BO	-16,34235827	-49,23357821		671426,547	8166971,06	8166971,06	671426,547	779,222	-9,57	788,792
3735	M-233	ACOST	-16,34235258	-49,23357071		671428,787	8166972,791	8166972,791	671428,787	778,999	-9,57	788,569
3736	M-233	TN	-16,34234804	-49,23356444		671430,656	8166974,173	8166974,173	671430,656	778,549	-9,57	788,119
3737	M-233	PT	-16,34234236	-49,23355777		671432,648	8166975,902	8166975,902	671432,648	778,56	-9,57	788,13
3738	M-233	TN	-16,34233578	-49,23355016		671434,918	8166977,907	8166977,907	671434,918	779,129	-9,57	788,699

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
3739	M-233	ACOST	-16,34233028	-49,23354342		671436,931	8166979,583	8166979,583	671436,931	779,638	-9,57	789,208
3740	M-233	BO	-16,34232738	-49,23353837		671438,433	8166980,462	8166980,462	671438,433	779,66	-9,57	789,23
3741	M-233	BO	-16,34231383	-49,23351969		671444,005	8166984,581	8166984,581	671444,005	779,524	-9,57	789,094
3742	M-233	ACOST	-16,34230881	-49,23351311		671445,967	8166986,11	8166986,11	671445,967	779,418	-9,57	788,988
3743	M-233	TN	-16,34230335	-49,2335065		671447,942	8166987,771	8166987,771	671447,942	778,861	-9,57	788,431
3744	M-233	TN	-16,34229299	-49,23349184		671452,311	8166990,923	8166990,923	671452,311	778,548	-9,57	788,118
3745	M-233	TN	-16,34228645	-49,23348338		671454,835	8166992,913	8166992,913	671454,835	778,329	-9,57	787,899
3746	M-233	MG	-16,342282	-49,23347806		671456,424	8166994,266	8166994,266	671456,424	778,132	-9,57	787,702
3747	M-233	MG	-16,34226293	-49,23345459		671463,429	8167000,074	8167000,074	671463,429	778,108	-9,57	787,678
3748	M-233	TN	-16,34225605	-49,23344647		671465,853	8167002,17	8167002,17	671465,853	778,215	-9,57	787,785
3749	M-233	PT	-16,34226521	-49,23344833		671465,277	8166999,357	8166999,357	671465,277	778,255	-9,57	787,825
3750	M-233	PT	-16,34217602	-49,23352068		671444,05	8167026,944	8167026,944	671444,05	776,623	-9,57	786,193
3751	M-233	MG	-16,34213385	-49,23355605		671433,668	8167039,992	8167039,992	671433,668	775,721	-9,57	785,291
3752	M-233	MG	-16,34212437	-49,23356389		671431,368	8167042,922	8167042,922	671431,368	775,545	-9,57	785,115
3753	M-233	PT	-16,34212402	-49,23356143		671432,099	8167043,024	8167043,024	671432,099	775,716	-9,57	785,286
3754	M-233	MG	-16,34211593	-49,23356788		671430,206	8167045,528	8167045,528	671430,206	775,384	-9,57	784,954
3756	M-233	BO	-16,34209879	-49,23356594		671430,824	8167050,792	8167050,792	671430,824	775,069	-9,57	784,639
3757	M-233	BO	-16,34209425	-49,23356022		671432,531	8167052,173	8167052,173	671432,531	775,017	-9,57	784,587
3758	M-233	BO	-16,34207488	-49,23356956		671429,81	8167058,149	8167058,149	671429,81	774,719	-9,57	784,289
3759	M-233	BO	-16,34207687	-49,233576		671427,897	8167057,552	8167057,552	671427,897	774,687	-9,57	784,257
3760	M-233	PT	-16,34207465	-49,23357615		671427,858	8167058,234	8167058,234	671427,858	774,905	-9,57	784,475
3761	M-233	BO	-16,34207958	-49,23358947		671423,896	8167056,75	8167056,75	671423,896	774,658	-9,57	784,228
3762	M-233	MG	-16,34207842	-49,23359856		671421,205	8167057,131	8167057,131	671421,205	774,641	-9,57	784,211

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
3763	M-233	MG	-16,3420757	-49,23360188		671420,226	8167057,974	8167057,974	671420,226	774,612	-9,57	784,182
3764	M-233	MG	-16,34207106	-49,23360559		671419,137	8167059,41	8167059,41	671419,137	774,501	-9,57	784,071
3765	M-233	MG	-16,34206513	-49,2336104		671417,728	8167061,243	8167061,243	671417,728	774,349	-9,57	783,919
3766	M-233	PT	-16,34206671	-49,23360718		671418,677	8167060,749	8167060,749	671418,677	774,573	-9,57	784,143
3767	M-233	TN	-16,34213158	-49,2335414		671438,019	8167040,655	8167040,655	671438,019	776,263	-9,57	785,833
3768	M-233	MG	-16,3421388	-49,23355268		671434,657	8167038,461	8167038,461	671434,657	775,822	-9,57	785,392
3769	M-233	MG	-16,3421587	-49,23357478		671428,055	8167032,397	8167032,397	671428,055	775,942	-9,57	785,512
3770	M-233	TN	-16,34217712	-49,23359467		671422,115	8167026,783	8167026,783	671422,115	776,347	-9,57	785,917
3771	M-233	TN	-16,34218264	-49,23360101		671420,221	8167025,1	8167025,1	671420,221	776,657	-9,57	786,227
3772	M-233	ACOST	-16,34218874	-49,23360759		671418,256	8167023,242	8167023,242	671418,256	777,421	-9,57	786,991
3773	M-233	BO	-16,34219498	-49,23361419		671416,283	8167021,338	8167021,338	671416,283	777,467	-9,57	787,037
3774	M-233	BO	-16,34221083	-49,2336302		671411,499	8167016,503	8167016,503	671411,499	777,599	-9,57	787,169
3775	M-233	ACOST	-16,34221419	-49,23363435		671410,262	8167015,481	8167015,481	671410,262	777,586	-9,57	787,156
3776	M-233	TN	-16,34222173	-49,23364338		671407,565	8167013,186	8167013,186	671407,565	776,76	-9,57	786,33
3777	M-233	PT	-16,34222572	-49,23364901		671405,887	8167011,972	8167011,972	671405,887	776,428	-9,57	785,998
3778	M-233	TN	-16,34223194	-49,23365591		671403,826	8167010,078	8167010,078	671403,826	776,652	-9,57	786,222
3779	M-233	ACOST	-16,34223714	-49,23366164		671402,115	8167008,493	8167008,493	671402,115	777,004	-9,57	786,574
3780	M-233	BO	-16,34224393	-49,23366901		671399,914	8167006,423	8167006,423	671399,914	777,256	-9,57	786,826
3781	M-233	BO	-16,34225732	-49,23368745		671394,415	8167002,351	8167002,351	671394,415	777,224	-9,57	786,794
3782	M-233	ACOST	-16,34226421	-49,23369532		671392,063	8167000,252	8167000,252	671392,063	777,131	-9,57	786,701
3783	M-233	ACE	-16,34227286	-49,23370607		671388,856	8166997,617	8166997,617	671388,856	777,068	-9,57	786,638
3784	M-233	TN	-16,34228036	-49,23371581		671385,952	8166995,336	8166995,336	671385,952	777,209	-9,57	786,779
3785	M-233	TN	-16,34228763	-49,23372496		671383,22	8166993,122	8166993,122	671383,22	777,045	-9,57	786,615

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
3786	M-233	TN	-16,34216708	-49,23381456		671356,957	8167030,388	8167030,388	671356,957	775,331	-9,57	784,901
3787	M-233	TN	-16,34215838	-49,23380389		671360,141	8167033,037	8167033,037	671360,141	775,204	-9,57	784,774
3788	M-233	ACOST	-16,34214413	-49,23378797		671364,894	8167037,382	8167037,382	671364,894	775,024	-9,57	784,594
3789	M-233	BO	-16,34213857	-49,23378096		671366,986	8167039,073	8167039,073	671366,986	775,139	-9,57	784,709
3790	M-233	BO	-16,3421232	-49,2337644		671371,934	8167043,758	8167043,758	671371,934	775,117	-9,57	784,687
3791	M-233	ACOST	-16,34211665	-49,23375654		671374,279	8167045,753	8167045,753	671374,279	774,858	-9,57	784,428
3792	M-233	TN	-16,34211189	-49,23375044		671376,098	8167047,201	8167047,201	671376,098	774,63	-9,57	784,2
3793	M-233	TN	-16,34210718	-49,23374378		671378,086	8167048,634	8167048,634	671378,086	774,74	-9,57	784,31
3794	M-233	TN	-16,3420973	-49,23373218		671381,547	8167051,644	8167051,644	671381,547	775,606	-9,57	785,176
3795	M-233	ACOST	-16,34209508	-49,2337288		671382,556	8167052,318	8167052,318	671382,556	775,487	-9,57	785,057
3796	M-233	BO	-16,34209147	-49,23372467		671383,788	8167053,418	8167053,418	671383,788	775,475	-9,57	785,045
3797	M-233	BO	-16,34207749	-49,23370566		671389,457	8167057,67	8167057,67	671389,457	775,381	-9,57	784,951
3798	M-233	ACOST	-16,34207242	-49,23369879		671391,508	8167059,212	8167059,212	671391,508	775,312	-9,57	784,882
3799	M-233	TN	-16,34206588	-49,23369206		671393,517	8167061,205	8167061,205	671393,517	774,653	-9,57	784,223
3800	M-233	TN	-16,34205197	-49,23367502		671398,604	8167065,44	8167065,44	671398,604	773,873	-9,57	783,443
3801	M-233	MG	-16,34204406	-49,23366516		671401,546	8167067,848	8167067,848	671401,546	773,603	-9,57	783,173
3802	M-233	MG	-16,3420261	-49,23364131		671408,661	8167073,313	8167073,313	671408,661	773,485	-9,57	783,055
3803	M-233	TN	-16,34201786	-49,23363364		671410,954	8167075,829	8167075,829	671410,954	773,689	-9,57	783,259
3804	M-233	MG	-16,34198854	-49,23367117		671399,901	8167084,929	8167084,929	671399,901	772,622	-9,57	782,192
3805	M-233	MG	-16,34198234	-49,23367605		671398,469	8167086,845	8167086,845	671398,469	772,525	-9,57	782,095
3806	M-233	MG	-16,3419765	-49,23368049		671397,169	8167088,651	8167088,651	671397,169	772,4	-9,57	781,97
3807	M-233	MG	-16,34196612	-49,23368152		671396,889	8167091,846	8167091,846	671396,889	772,161	-9,57	781,731
3808	M-233	MG	-16,34195844	-49,2336795		671397,507	8167094,2	8167094,2	671397,507	772,109	-9,57	781,679

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
3809	M-233	MG	-16,34195291	-49,23367487		671398,893	8167095,89	8167095,89	671398,893	771,917	-9,57	781,487
3810	M-233	MG	-16,34195046	-49,23366809		671400,909	8167096,626	8167096,626	671400,909	771,924	-9,57	781,494
3811	M-233	MG	-16,34194884	-49,23366353		671402,264	8167097,113	8167097,113	671402,264	771,932	-9,57	781,502
3812	M-233	PT	-16,34195018	-49,23366289		671402,451	8167096,701	8167096,701	671402,451	772,061	-9,57	781,631
3813	M-233	MG	-16,34193057	-49,23367314		671399,459	8167102,752	8167102,752	671399,459	771,716	-9,57	781,286
3814	M-233	MG	-16,34193606	-49,23368958		671394,573	8167101,104	8167101,104	671394,573	771,752	-9,57	781,322
3815	M-233	MG	-16,34193983	-49,2337007		671391,267	8167099,971	8167099,971	671391,267	771,704	-9,57	781,274
3816	M-233	MG	-16,34194216	-49,23370862		671388,914	8167099,275	8167099,275	671388,914	771,762	-9,57	781,332
3817	M-233	MG	-16,34193856	-49,23371767		671386,24	8167100,403	8167100,403	671386,24	771,624	-9,57	781,194
3818	M-233	MG	-16,34193011	-49,23372564		671383,899	8167103,018	8167103,018	671383,899	771,376	-9,57	780,946
3819	M-233	PT	-16,34198021	-49,23367571		671398,576	8167087,501	8167087,501	671398,576	772,613	-9,57	782,183
3820	M-233	MG	-16,34094861	-49,23447053		671165,496	8167406,477	8167406,477	671165,496	779,652	-9,57	789,222
3821	M-233	MG	-16,34095894	-49,23446394		671167,423	8167403,287	8167403,287	671167,423	779,404	-9,57	788,974
3822	M-233	MG	-16,34096583	-49,23445932		671168,777	8167401,159	8167401,159	671168,777	779,262	-9,57	788,832
3823	M-233	PT	-16,34096436	-49,23445866		671168,975	8167401,608	8167401,608	671168,975	779,467	-9,57	789,037
3824	M-233	MG	-16,3409703	-49,23445629		671169,664	8167399,778	8167399,778	671169,664	779,17	-9,57	788,74
3825	M-233	MG	-16,34097416	-49,23445339		671170,513	8167398,584	8167398,584	671170,513	779,092	-9,57	788,662
3826	M-233	BO	-16,34097521	-49,23444904		671171,8	8167398,251	8167398,251	671171,8	779,038	-9,57	788,608
3827	M-233	BO	-16,34097402	-49,23444392		671173,322	8167398,604	8167398,604	671173,322	778,986	-9,57	788,556
3828	M-233	BO	-16,34097036	-49,23443686		671175,424	8167399,713	8167399,713	671175,424	778,949	-9,57	788,519
3829	M-233	BO	-16,3409666	-49,2344318		671176,932	8167400,855	8167400,855	671176,932	778,955	-9,57	788,525
3830	M-233	PT	-16,34096604	-49,23443385		671176,326	8167401,032	8167401,032	671176,326	779,156	-9,57	788,726
3831	M-233	BO	-16,34096013	-49,23442279		671179,619	8167402,822	8167402,822	671179,619	778,927	-9,57	788,497

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
3832	M-233	BO	-16,34097535	-49,23440932		671183,574	8167398,112	8167398,112	671183,574	778,774	-9,57	788,344
3833	M-233	BO	-16,34097994	-49,23441514		671181,839	8167396,716	8167396,716	671181,839	778,795	-9,57	788,365
3834	M-233	BO	-16,34098532	-49,23442409		671179,172	8167395,084	8167395,084	671179,172	778,746	-9,57	788,316
3835	M-233	BO	-16,34099084	-49,23443085		671177,153	8167393,404	8167393,404	671177,153	778,676	-9,57	788,246
3836	M-233	BO	-16,34099457	-49,23443173		671176,883	8167392,257	8167392,257	671176,883	778,749	-9,57	788,319
3837	M-233	BO	-16,34099538	-49,23443109		671177,072	8167392,009	8167392,009	671177,072	778,603	-9,57	788,173
3838	M-233	BO	-16,34099634	-49,23442906		671177,672	8167391,707	8167391,707	671177,672	778,544	-9,57	788,114
3839	M-233	BO	-16,34099394	-49,2344213		671179,976	8167392,427	8167392,427	671179,976	778,602	-9,57	788,172
3840	M-233	BO	-16,34099118	-49,23441378		671182,212	8167393,258	8167393,258	671182,212	778,477	-9,57	788,047
3841	M-233	BO	-16,34098855	-49,23440605		671184,51	8167394,049	8167394,049	671184,51	778,506	-9,57	788,076
3842	M-233	BO	-16,34098601	-49,23439868		671186,703	8167394,811	8167394,811	671186,703	778,443	-9,57	788,013
3843	M-233	BO	-16,34100125	-49,23438659		671190,25	8167390,099	8167390,099	671190,25	778,227	-9,57	787,797
3844	M-233	BO	-16,34100418	-49,23439509		671187,721	8167389,219	8167389,219	671187,721	778,405	-9,57	787,975
3845	M-233	BO	-16,34100674	-49,23440188		671185,703	8167388,447	8167388,447	671185,703	778,244	-9,57	787,814
3846	M-233	PT	-16,34100908	-49,23440187		671185,7	8167387,727	8167387,727	671185,7	778,465	-9,57	788,035
3847	M-233	BO	-16,34100828	-49,23440594		671184,496	8167387,984	8167387,984	671184,496	778,274	-9,57	787,844
3848	M-233	BO	-16,3410112	-49,23441169		671182,783	8167387,099	8167387,099	671182,783	778,313	-9,57	787,883
3849	M-233	BO	-16,34101459	-49,23441789		671180,937	8167386,071	8167386,071	671180,937	778,257	-9,57	787,827
3850	M-233	BO	-16,34101972	-49,23442225		671179,633	8167384,505	8167384,505	671179,633	778,22	-9,57	787,79
3851	M-233	BO	-16,34102472	-49,23442186		671179,736	8167382,969	8167382,969	671179,736	778,158	-9,57	787,728
3852	M-233	BO	-16,34103178	-49,23441679		671181,221	8167380,786	8167380,786	671181,221	778,042	-9,57	787,612
3853	M-233	BO	-16,34104091	-49,23441098		671182,922	8167377,964	8167377,964	671182,922	777,984	-9,57	787,554
3854	M-233	BO	-16,34104328	-49,23440902		671183,496	8167377,231	8167377,231	671183,496	777,799	-9,57	787,369

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
3855	M-233	BO	-16,34104777	-49,23440626		671184,304	8167375,846	8167375,846	671184,304	777,703	-9,57	787,273
3856	M-233	PT	-16,34104081	-49,23440924		671183,437	8167377,991	8167377,991	671183,437	777,966	-9,57	787,536
3857	M-233	MG	-16,34107399	-49,23442788		671177,829	8167367,838	8167367,838	671177,829	777,565	-9,57	787,135
3858	M-233	MG	-16,34106984	-49,23443081		671176,972	8167369,12	8167369,12	671176,972	777,714	-9,57	787,284
3859	M-233	MG	-16,34106382	-49,23443479		671175,808	8167370,981	8167370,981	671175,808	777,909	-9,57	787,479
3860	M-233	MG	-16,34105751	-49,23443889		671174,608	8167372,93	8167372,93	671174,608	778,035	-9,57	787,605
3861	M-233	BO	-16,34105646	-49,23444137		671173,873	8167373,258	8167373,258	671173,873	778,119	-9,57	787,689
3862	M-233	BO	-16,34105853	-49,23444437		671172,979	8167372,627	8167372,627	671172,979	778,235	-9,57	787,805
3863	M-233	BO	-16,34106256	-49,23444673		671172,271	8167371,395	8167371,395	671172,271	778,241	-9,57	787,811
3864	M-233	BO	-16,34106796	-49,23444913		671171,545	8167369,74	8167369,74	671171,545	778,239	-9,57	787,809
3865	M-233	BO	-16,34107353	-49,23445035		671171,169	8167368,031	8167368,031	671171,169	778,225	-9,57	787,795
3866	M-233	BO	-16,34107712	-49,23445029		671171,179	8167366,929	8167366,929	671171,179	778,137	-9,57	787,707
3867	M-233	ACOST	-16,34108225	-49,23444481		671171,815	8167365,346	8167365,346	671171,815	778,025	-9,57	787,595
3868	M-233	ACOST	-16,34108668	-49,23444556		671172,559	8167363,979	8167363,979	671172,559	777,987	-9,57	787,557
3869	M-233	ACOST	-16,34109215	-49,23444194		671173,618	8167362,287	8167362,287	671173,618	777,889	-9,57	787,459
3870	M-233	ACOST	-16,34109672	-49,23443911		671174,445	8167360,876	8167360,876	671174,445	777,823	-9,57	787,393
3871	M-233	MG	-16,34098021	-49,23448854		671160,078	8167396,807	8167396,807	671160,078	779,251	-9,57	788,821
3872	M-233	MG	-16,34098267	-49,23448694		671160,547	8167396,048	8167396,048	671160,547	779,221	-9,57	788,791
3873	M-233	MG	-16,34098774	-49,23448377		671161,474	8167394,48	8167394,48	671161,474	779,2	-9,57	788,77
3874	M-233	MG	-16,34099324	-49,23448023		671162,51	8167392,782	8167392,782	671162,51	779,09	-9,57	788,66
3875	M-233	MG	-16,34099841	-49,2344765		671163,602	8167391,185	8167391,185	671163,602	779,041	-9,57	788,611
3876	M-233	MG	-16,34100056	-49,2344754		671163,923	8167390,522	8167390,522	671163,923	779,025	-9,57	788,595
3877	M-233	BO	-16,34100265	-49,23447637		671163,632	8167389,881	8167389,881	671163,632	779,034	-9,57	788,604

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
3878	M-233	BO	-16,34100377	-49,23448084		671162,302	8167389,547	8167389,547	671162,302	779,129	-9,57	788,699
3879	M-233	BO	-16,34100514	-49,23448601		671160,766	8167389,137	8167389,137	671160,766	779,204	-9,57	788,774
3880	M-233	BO	-16,34100518	-49,23448972		671159,668	8167389,134	8167389,134	671159,668	779,26	-9,57	788,83
3881	M-233	BO	-16,34100366	-49,23449563		671157,919	8167389,617	8167389,617	671157,919	779,369	-9,57	788,939
3882	M-233	BO	-16,34100097	-49,23450017		671156,579	8167390,454	8167390,454	671156,579	779,463	-9,57	789,033
3883	M-233	BO	-16,34099748	-49,23450403		671155,444	8167391,534	8167391,534	671155,444	779,597	-9,57	789,167
3884	M-233	ACOST	-16,34099129	-49,23450976		671153,76	8167393,452	8167393,452	671153,76	779,788	-9,57	789,358
3885	M-233	ACOST	-16,34098676	-49,23451296		671152,823	8167394,851	8167394,851	671152,823	779,857	-9,57	789,427
3886	M-233	ACOST	-16,34097795	-49,2345189		671151,084	8167397,572	8167397,572	671151,084	780,202	-9,57	789,772
3887	M-233	ACOST	-16,34096985	-49,23452387		671149,631	8167400,075	8167400,075	671149,631	780,175	-9,57	789,745
3888	M-233	ACOST	-16,34096305	-49,23452846		671148,286	8167402,177	8167402,177	671148,286	780,249	-9,57	789,819
3889	M-233	MG	-16,34088127	-49,23451453		671152,617	8167427,28	8167427,28	671152,617	780,688	-9,57	790,258
3890	M-233	MG	-16,34087724	-49,23451675		671151,97	8167428,526	8167428,526	671151,97	780,735	-9,57	790,305
3891	M-233	MG	-16,34087344	-49,23451934		671151,209	8167429,699	8167429,699	671151,209	780,81	-9,57	790,38
3892	M-233	PT	-16,34087258	-49,23451791		671151,636	8167429,96	8167429,96	671151,636	780,942	-9,57	790,512
3893	M-233	MG	-16,34086584	-49,23452416		671149,801	8167432,045	8167432,045	671149,801	780,912	-9,57	790,482
3894	M-233	MG	-16,34086142	-49,23452762		671148,784	8167433,413	8167433,413	671148,784	780,962	-9,57	790,532
3895	M-233	MG	-16,34085435	-49,23453021		671148,036	8167435,593	8167435,593	671148,036	781,036	-9,57	790,606
3896	M-233	MG	-16,34084702	-49,23452609		671149,274	8167437,837	8167437,837	671149,274	781,126	-9,57	790,696
3897	M-233	MG	-16,34084174	-49,23451871		671151,474	8167439,442	8167439,442	671151,474	781,257	-9,57	790,827
3898	M-233	MG	-16,34083436	-49,23450938		671154,258	8167441,687	8167441,687	671154,258	781,195	-9,57	790,765
3899	M-233	PT	-16,34083844	-49,23451265		671153,279	8167440,44	8167440,44	671153,279	781,377	-9,57	790,947
3900	M-233	BO	-16,34081918	-49,23452091		671150,877	8167446,382	8167446,382	671150,877	781,394	-9,57	790,964

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
3901	M-233	BO	-16,34082533	-49,23452936		671148,358	8167444,511	8167444,511	671148,358	781,352	-9,57	790,922
3902	M-233	BO	-16,34082926	-49,23453983		671145,244	8167443,326	8167443,326	671145,244	781,33	-9,57	790,9
3903	M-233	BO	-16,34082782	-49,23454682		671143,175	8167443,788	8167443,788	671143,175	781,428	-9,57	790,998
3904	M-233	BO	-16,34082285	-49,23455188		671141,689	8167445,326	8167445,326	671141,689	781,516	-9,57	791,086
3905	M-233	MG	-16,3408188	-49,23455454		671140,909	8167446,576	8167446,576	671140,909	781,609	-9,57	791,179
3906	M-233	PT	-16,3408183	-49,23455271		671141,452	8167446,728	8167446,728	671141,452	781,738	-9,57	791,308
3907	M-233	MG	-16,34079076	-49,23457277		671135,573	8167455,239	8167455,239	671135,573	782,015	-9,57	791,585
5688	M-233	PT	-16,34283165	-49,23300621		671594,945	8166824,196	8166824,196	671594,945	785,514	-9,57	795,084
5689	M-233	TN	-16,34285056	-49,23299319		671598,757	8166818,353	8166818,353	671598,757	785,72	-9,57	795,29
5690	M-233	MG	-16,34285093	-49,23299351		671598,66	8166818,238	8166818,238	671598,66	785,577	-9,57	795,147
5691	M-233	MG	-16,34286881	-49,23301647		671591,81	8166812,798	8166812,798	671591,81	785,635	-9,57	795,205
5692	M-233	TN	-16,34287668	-49,23302753		671588,512	8166810,406	8166810,406	671588,512	785,757	-9,57	795,327
5693	M-233	TN	-16,34288793	-49,23304528		671583,224	8166806,989	8166806,989	671583,224	786,112	-9,57	795,682
5694	M-233	ACOST	-16,34289348	-49,23305361		671580,74	8166805,302	8166805,302	671580,74	786,68	-9,57	796,25
5695	M-233	BO	-16,34289917	-49,23306059		671578,657	8166803,57	8166803,57	671578,657	786,764	-9,57	796,334
5696	M-233	BO	-16,34291262	-49,23307936		671573,06	8166799,481	8166799,481	671573,06	786,87	-9,57	796,44
5697	M-233	ACOST	-16,34291507	-49,23308318		671571,922	8166798,738	8166798,738	671571,922	786,859	-9,57	796,429
5698	M-233	TN	-16,34292185	-49,23309302		671568,989	8166796,675	8166796,675	671568,989	785,844	-9,57	795,414
5699	M-233	PT	-16,34292615	-49,23309914		671567,164	8166795,37	8166795,37	671567,164	785,63	-9,57	795,2
5700	M-233	TN	-16,34293062	-49,23310534		671565,314	8166794,01	8166794,01	671565,314	785,865	-9,57	795,435
5701	M-233	ACOST	-16,34293563	-49,23311237		671563,218	8166792,486	8166792,486	671563,218	786,233	-9,57	795,803
5702	M-233	BO	-16,3429416	-49,23312026		671560,864	8166790,669	8166790,669	671560,864	786,486	-9,57	796,056
5703	M-233	BO	-16,34295614	-49,23313796		671555,583	8166786,243	8166786,243	671555,583	786,516	-9,57	796,086

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
5704	M-233	ACOST	-16,3429613	-49,23314412		671553,745	8166784,672	8166784,672	671553,745	786,431	-9,57	796,001
5705	M-233	ACE	-16,34296595	-49,23315038		671551,876	8166783,256	8166783,256	671551,876	786,376	-9,57	795,946
5706	M-233	ACE	-16,34297446	-49,23314234		671554,239	8166780,621	8166780,621	671554,239	786,494	-9,57	796,064
5707	M-233	ACE	-16,34298216	-49,23313442		671556,567	8166778,235	8166778,235	671556,567	786,606	-9,57	796,176
5708	M-233	ACE	-16,34299043	-49,23312576		671559,115	8166775,672	8166775,672	671559,115	786,652	-9,57	796,222
5709	M-233	ACE	-16,34300365	-49,23311189		671563,193	8166771,578	8166771,578	671563,193	786,9	-9,57	796,47
5710	M-233	TN	-16,3429862	-49,2331637		671547,878	8166777,064	8166777,064	671547,878	786,687	-9,57	796,257
5711	M-233	TN	-16,34285613	-49,23327082		671516,443	8166817,298	8166817,298	671516,443	785,518	-9,57	795,088
5712	M-233	ACE	-16,34284474	-49,23325017		671522,594	8166820,752	8166820,752	671522,594	785,273	-9,57	794,843
5713	M-233	ACOST	-16,34283794	-49,2332391		671525,892	8166822,814	8166822,814	671525,892	785,286	-9,57	794,856
5714	M-233	BO	-16,34283448	-49,23323457		671527,242	8166823,868	8166823,868	671527,242	785,332	-9,57	794,902
5715	M-233	BO	-16,34282247	-49,23321464		671533,182	8166827,511	8166827,511	671533,182	785,321	-9,57	794,891
5716	M-233	ACOST	-16,34281639	-49,23320626		671535,681	8166829,362	8166829,362	671535,681	785,062	-9,57	794,632
5717	M-233	TN	-16,34281109	-49,23319769		671538,232	8166830,971	8166830,971	671538,232	784,406	-9,57	793,976
5718	M-233	TN	-16,34280657	-49,23319159		671540,053	8166832,344	8166832,344	671540,053	784,352	-9,57	793,922
5719	M-233	PT	-16,34281026	-49,23319126		671540,141	8166831,21	8166831,21	671540,141	784,318	-9,57	793,888
5720	M-233	TN	-16,34280207	-49,23318381		671542,369	8166833,708	8166833,708	671542,369	785,529	-9,57	795,099
5721	M-233	TN	-16,34279876	-49,23317977		671543,576	8166834,716	8166834,716	671543,576	786,082	-9,57	795,652
5722	M-233	ACOST	-16,34279629	-49,23317678		671544,468	8166835,469	8166835,469	671544,468	785,973	-9,57	795,543
5723	M-233	BO	-16,3427936	-49,23317299		671545,599	8166836,288	8166836,288	671545,599	786,027	-9,57	795,597
5724	M-233	BO	-16,34277922	-49,23315432		671551,169	8166840,662	8166840,662	671551,169	785,821	-9,57	795,391
5725	M-233	ACOST	-16,34277341	-49,23314774		671553,134	8166842,433	8166842,433	671553,134	785,766	-9,57	795,336
5726	M-233	TN	-16,34276748	-49,2331393		671555,651	8166844,237	8166844,237	671555,651	785,217	-9,57	794,787

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
5727	M-233	TN	-16,34275694	-49,23312637		671559,509	8166847,444	8166847,444	671559,509	784,707	-9,57	794,277
5728	M-233	MG	-16,34274635	-49,23311226		671563,718	8166850,666	8166850,666	671563,718	784,535	-9,57	794,105
5729	M-233	MG	-16,34272722	-49,2330893		671570,569	8166856,494	8166856,494	671570,569	784,434	-9,57	794,004
5730	M-233	TN	-16,34272081	-49,23308116		671572,999	8166858,443	8166858,443	671572,999	784,55	-9,57	794,12
5731	M-233	TN	-16,34272288	-49,2330875		671571,114	8166857,823	8166857,823	671571,114	784,775	-9,57	794,345
16939	M-233	BO	-16,34148038	-49,23429816		671215,287	8167242,613	8167242,613	671215,287	770,554	-9,57	780,124
16947	M-233	TN	-16,34148796	-49,23430813		671212,311	8167240,307	8167240,307	671212,311	770,307	-9,57	779,877
16951	M-233	CERCA	-16,34149954	-49,23432361		671207,694	8167236,786	8167236,786	671207,694	769,218	-9,57	778,788
16959	M-233	TN	-16,34156467	-49,23427929		671220,672	8167216,661	8167216,661	671220,672	767,515	-9,57	777,085
16969	M-233	TN	-16,34155018	-49,2342597		671226,516	8167221,066	8167221,066	671226,516	769,156	-9,57	778,726
16974	M-233	BO	-16,34154206	-49,23424971		671229,497	8167223,541	8167223,541	671229,497	769,348	-9,57	778,918
16981	M-233	TN	-16,34152106	-49,23422231		671237,67	8167229,93	8167229,93	671237,67	769,078	-9,57	778,648
16994	M-233	TN	-16,34151114	-49,23420959		671241,465	8167232,949	8167232,949	671241,465	769,278	-9,57	778,848
16997	M-233	TN	-16,34150338	-49,23419925		671244,551	8167235,309	8167235,309	671244,551	771,465	-9,57	781,035
17000	M-233	BO	-16,34149798	-49,23419039		671247,191	8167236,947	8167236,947	671247,191	771,601	-9,57	781,171
17004	M-233	BO	-16,34148377	-49,23417194		671252,694	8167241,272	8167241,272	671252,694	771,519	-9,57	781,089
17011	M-233	TN	-16,34147739	-49,2341633		671255,272	8167243,212	8167243,212	671255,272	771,545	-9,57	781,115
17016	M-233	TN	-16,34146717	-49,23415307		671258,33	8167246,329	8167246,329	671258,33	769,443	-9,57	779,013
17021	M-233	MAG_BO	-16,34145467	-49,23413695		671263,139	8167250,134	8167250,134	671263,139	769,176	-9,57	778,746
17025	M-233	MAG_BO	-16,34143843	-49,2341115		671270,723	8167255,067	8167255,067	671270,723	769,37	-9,57	778,94
17028	M-233	MAG_BO	-16,34150806	-49,23405742		671286,584	8167233,534	8167233,534	671286,584	767,915	-9,57	777,485
17032	M-233	TN	-16,34150069	-49,23404688		671289,727	8167235,774	8167235,774	671289,727	768,018	-9,57	777,588
17038	M-233	MAG_BO	-16,34150508	-49,23409718		671274,803	8167234,546	8167234,546	671274,803	768,443	-9,57	778,013

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
17042	M-233	MAG_BO	-16,3414878	-49,23407311		671281,981	8167239,799	8167239,799	671281,981	768,286	-9,57	777,856
17046	M-233	MAG_BO	-16,34152262	-49,2340722		671282,167	8167229,095	8167229,095	671282,167	767,924	-9,57	777,494
17049	M-233	TN	-16,34152805	-49,23408035		671279,736	8167227,446	8167227,446	671279,736	767,912	-9,57	777,482
17056	M-233	TN	-16,34155087	-49,23410539		671272,257	8167220,489	8167220,489	671272,257	770,556	-9,57	780,126
17061	M-233	BO	-16,34157189	-49,23413249		671264,173	8167214,093	8167214,093	671264,173	770,579	-9,57	780,149
17067	M-233	TN	-16,34157741	-49,23414022		671261,868	8167212,413	8167212,413	671261,868	770,635	-9,57	780,205
17071	M-233	MAG_BO	-16,34079006	-49,23457326		671135,43	8167455,456	8167455,456	671135,43	782,025	-9,57	791,595
17084	M-233	TN	-16,34159418	-49,23416414		671254,735	8167207,315	8167207,315	671254,735	767,769	-9,57	777,339
17088	M-233	BO	-16,34160151	-49,23417349		671251,945	8167205,084	8167205,084	671251,945	768,013	-9,57	777,583
17092	M-233	BO	-16,34161637	-49,23419202		671246,417	8167200,561	8167200,561	671246,417	767,984	-9,57	777,554
17096	M-233	TN	-16,34162497	-49,23420294		671243,158	8167197,945	8167197,945	671243,158	767,912	-9,57	777,482
17100	M-233	TN	-16,34163693	-49,23422159		671237,6	8167194,312	8167194,312	671237,6	767,188	-9,57	776,758
17105	M-233	TN	-16,34170482	-49,23417687		671250,69	8167173,339	8167173,339	671250,69	766,775	-9,57	776,345
17111	M-233	TN	-16,34169602	-49,2341657		671254,023	8167176,016	8167176,016	671254,023	767,617	-9,57	777,187
17114	M-233	MAG_BO	-16,34080771	-49,23459856		671127,887	8167450,091	8167450,091	671127,887	781,894	-9,57	791,464
17121	M-233	BO	-16,34167652	-49,23414443		671260,375	8167181,96	8167181,96	671260,375	768,073	-9,57	777,643
17126	M-233	BO	-16,34166229	-49,23412576		671265,944	8167186,289	8167186,289	671265,944	768,043	-9,57	777,613
17129	M-233	TN	-16,34165579	-49,23411648		671268,713	8167188,267	8167188,267	671268,713	767,811	-9,57	777,381
17135	M-233	TN	-16,34163714	-49,23409172		671276,098	8167193,941	8167193,941	671276,098	770,316	-9,57	779,886
17140	M-233	BO	-16,34163108	-49,23408523		671278,038	8167195,787	8167195,787	671278,038	770,313	-9,57	779,883
17142	M-233	BO	-16,34161732	-49,23406737		671283,364	8167199,974	8167199,974	671283,364	770,125	-9,57	779,695
17150	M-233	TN	-16,34160922	-49,23405906		671285,849	8167202,445	8167202,445	671285,849	770,174	-9,57	779,744
17155	M-233	TN	-16,34160113	-49,23404421		671290,271	8167204,897	8167204,897	671290,271	767,372	-9,57	776,942

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
17158	M-233	TN	-16,3408222	-49,2346193		671121,705	8167445,686	8167445,686	671121,705	782,736	-9,57	792,306
17159	M-233	BO	-16,34259527	-49,23318805		671541,621	8166897,285	8166897,285	671541,621	782,87	-9,57	792,44
17163	M-233	TN	-16,3415914	-49,23403315		671293,574	8167207,859	8167207,859	671293,574	767,2	-9,57	776,77
17168	M-233	MAG_BO	-16,34158471	-49,2340247		671296,094	8167209,898	8167209,898	671296,094	767,095	-9,57	776,665
17173	M-233	MAG_BO	-16,34157192	-49,23400721		671301,309	8167213,788	8167213,788	671301,309	766,997	-9,57	776,567
17192	M-233	NA	-16,34163583	-49,23391639		671328,075	8167193,926	8167193,926	671328,075	765,518	-9,57	775,088
17197	M-233	MAG_BO	-16,34164779	-49,2339483		671318,586	8167190,327	8167190,327	671318,586	766,274	-9,57	775,844
17209	M-233	BO	-16,34082856	-49,23462912		671118,778	8167443,754	8167443,754	671118,778	782,661	-9,57	792,231
17214	M-233	TN	-16,34167027	-49,23397965		671309,239	8167183,489	8167183,489	671309,239	766,985	-9,57	776,555
17230	M-233	BO	-16,34170646	-49,23402645		671295,276	8167172,478	8167172,478	671295,276	770,805	-9,57	780,375
17237	M-233	TN	-16,34171606	-49,23404722		671289,095	8167169,576	8167169,576	671289,095	768,274	-9,57	777,844
17245	M-233	TN	-16,34171859	-49,23404522		671289,682	8167168,793	8167168,793	671289,682	767,807	-9,57	777,377
17252	M-233	TN	-16,34172636	-49,23406261		671284,509	8167166,447	8167166,447	671284,509	768,226	-9,57	777,796
17255	M-233	BO	-16,34084132	-49,23464844		671113,018	8167439,877	8167439,877	671113,018	782,481	-9,57	792,051
17256	M-233	MG	-16,34257473	-49,23320502		671536,643	8166903,641	8166903,641	671536,643	782,659	-9,57	792,229
17261	M-233	BO	-16,34173097	-49,23407155		671281,847	8167165,05	8167165,05	671281,847	768,592	-9,57	778,162
17266	M-233	BO	-16,3417439	-49,23409079		671276,112	8167161,121	8167161,121	671276,112	768,672	-9,57	778,242
17279	M-233	NA	-16,34177486	-49,23412662		671265,415	8167151,689	8167151,689	671265,415	765,805	-9,57	775,375
17283	M-233	TN	-16,34182425	-49,23407583		671280,349	8167136,387	8167136,387	671280,349	769,669	-9,57	779,239
17286	M-233	TN	-16,34180879	-49,23405747		671285,828	8167141,096	8167141,096	671285,828	769,287	-9,57	778,857
17292	M-233	BO	-16,34178621	-49,23402862		671294,436	8167147,969	8167147,969	671294,436	769,293	-9,57	778,863
17301	M-233	TN	-16,34084549	-49,23465518		671111,01	8167438,613	8167438,613	671111,01	782,439	-9,57	792,009
17311	M-233	TN	-16,34176082	-49,23399512		671304,43	8167155,693	8167155,693	671304,43	771,08	-9,57	780,65

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
17319	M-233	BO	-16,34175606	-49,23398768		671306,647	8167157,138	8167157,138	671306,647	771,096	-9,57	780,666
17324	M-233	BO	-16,34174213	-49,23396928		671312,136	8167161,378	8167161,378	671312,136	770,938	-9,57	780,508
17334	M-233	TN	-16,34171704	-49,23393486		671322,4	8167169,009	8167169,009	671322,4	766,445	-9,57	776,015
17336	M-233	MAG_BO	-16,34171076	-49,23392644		671324,912	8167170,92	8167170,92	671324,912	766,972	-9,57	776,542
17339	M-233	MAG_BO	-16,34169827	-49,23390921		671330,05	8167174,717	8167174,717	671330,05	766,847	-9,57	776,417
17345	M-233	TN	-16,34169233	-49,23390108		671332,474	8167176,523	8167176,523	671332,474	766,749	-9,57	776,319
17348	M-233	TN	-16,34168729	-49,23388918		671336,014	8167178,046	8167178,046	671336,014	766,164	-9,57	775,734
17349	M-233	MAG_BO	-16,34181075	-49,23382003		671356,211	8167139,931	8167139,931	671356,211	768,373	-9,57	777,943
17360	M-233	TN	-16,3418386	-49,23385613		671345,442	8167131,457	8167131,457	671345,442	769,199	-9,57	778,769
17363	M-233	TN	-16,34185074	-49,23386949		671341,451	8167127,755	8167127,755	671341,451	771,89	-9,57	781,46
17366	M-233	BO	-16,34185858	-49,23387821		671338,845	8167125,367	8167125,367	671338,845	771,993	-9,57	781,563
17369	M-233	BO	-16,34187242	-49,23389611		671333,506	8167121,155	8167121,155	671333,506	772,102	-9,57	781,672
17372	M-233	BO	-16,34187239	-49,23389608		671333,516	8167121,165	8167121,165	671333,516	772,099	-9,57	781,669
17375	M-233	TN	-16,34089388	-49,23471744		671092,436	8167423,886	8167423,886	671092,436	781,814	-9,57	791,384
17376	M-233	BO	-16,34254339	-49,2332281		671529,877	8166913,329	8166913,329	671529,877	782,35	-9,57	791,92
17381	M-233	TN	-16,34187752	-49,23390171		671331,832	8167119,6	8167119,6	671331,832	772,112	-9,57	781,682
17385	M-233	TN	-16,34189954	-49,23392372		671325,256	8167112,886	8167112,886	671325,256	770,946	-9,57	780,516
17389	M-233	BO	-16,34190792	-49,23393266		671322,583	8167110,331	8167110,331	671322,583	771,235	-9,57	780,805
17392	M-233	BO	-16,34192144	-49,23395161		671316,933	8167106,218	8167106,218	671316,933	771,243	-9,57	780,813
17393	M-233	TN	-16,34192935	-49,23396123		671314,062	8167103,811	8167103,811	671314,062	771,074	-9,57	780,644
17403	M-233	TN	-16,34202524	-49,2339144		671327,71	8167074,226	8167074,226	671327,71	772,838	-9,57	782,408
17406	M-233	TN	-16,34201278	-49,23389666		671332,999	8167078,013	8167078,013	671332,999	772,839	-9,57	782,409
17409	M-233	BO	-16,34089999	-49,23472512		671090,142	8167422,025	8167422,025	671090,142	781,963	-9,57	791,533

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
17414	M-233	BO	-16,34199046	-49,23386778		671341,615	8167084,805	8167084,805	671341,615	772,623	-9,57	782,193
17419	M-233	TN	-16,3419822	-49,23385756		671344,664	8167087,321	8167087,321	671344,664	772,419	-9,57	781,989
17424	M-233	TN	-16,34196427	-49,23383483		671351,445	8167092,778	8167092,778	671351,445	773,162	-9,57	782,732
17427	M-233	BO	-16,34195908	-49,23382827		671353,402	8167094,356	8167094,356	671353,402	773,303	-9,57	782,873
17430	M-233	BO	-16,34194503	-49,23380978		671358,92	8167098,633	8167098,633	671358,92	773,146	-9,57	782,716
17436	M-233	TN	-16,34193278	-49,23379111		671364,482	8167102,354	8167102,354	671364,482	771,407	-9,57	780,977
17439	M-233	TN	-16,3419242	-49,23378114		671367,46	8167104,966	8167104,966	671367,46	770,698	-9,57	780,268
17440	M-233	BO	-16,34091286	-49,23474393		671084,537	8167418,115	8167418,115	671084,537	781,968	-9,57	791,538
17442	M-233	BO	-16,34252923	-49,23322737		671530,128	8166917,678	8166917,678	671530,128	782,266	-9,57	791,836
17446	M-233	MAG_BO	-16,34191405	-49,23376693		671371,696	8167108,054	8167108,054	671371,696	770,897	-9,57	780,467
17449	M-233	MAG_BO	-16,34190007	-49,23374921		671376,984	8167112,308	8167112,308	671376,984	770,671	-9,57	780,241
17452	M-233	TN	-16,34189272	-49,23373837		671380,215	8167114,543	8167114,543	671380,215	770,852	-9,57	780,422
17455	M-233	TUBO,GREIDE-NA	-16,34179904	-49,23387922		671338,693	8167143,672	8167143,672	671338,693	768,652	-9,57	778,222
17458	M-233	TUBO,GREIDE-NA	-16,34188264	-49,23392054		671326,239	8167118,072	8167118,072	671326,239	770,038	-9,57	779,608
17459	M-233	POSTE	-16,34199387	-49,23383189		671352,244	8167083,672	8167083,672	671352,244	772,248	-9,57	781,818
17470	M-233	POSTE	-16,34164365	-49,2341051		671272,117	8167191,971	8167191,971	671272,117	767,661	-9,57	777,231
17473	M-233	POSTE	-16,34152737	-49,23419666		671245,26	8167227,929	8167227,929	671245,26	768,953	-9,57	778,523
17476	M-233	TN	-16,34091964	-49,23475333		671081,734	8167416,051	8167416,051	671081,734	781,839	-9,57	791,409
17477	M-233	POSTE	-16,34141059	-49,23429006		671217,859	8167264,045	8167264,045	671217,859	771,123	-9,57	780,693
17488	M-233	TUBO,GREIDE-NA	-16,34129888	-49,23429675		671216,15	8167298,4	8167298,4	671216,15	772,973	-9,57	782,543
17491	M-233	POSTE	-16,3411888	-49,23448379		671160,975	8167332,679	8167332,679	671160,975	776,598	-9,57	786,168
17494	M-233	POSTE	-16,34116365	-49,23444856		671171,481	8167340,326	8167340,326	671171,481	777,157	-9,57	786,727
17497	M-233	POSTE	-16,34104143	-49,23453017		671147,587	8167378,089	8167378,089	671147,587	779,244	-9,57	788,814

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
17500	M-233	POSTE	-16,34107142	-49,2345751		671134,194	8167368,976	8167368,976	671134,194	778,908	-9,57	788,478
17503	M-233	POSTE	-16,34095548	-49,23466675		671107,309	8167404,83	8167404,83	671107,309	780,604	-9,57	790,174
17504	M-233	POSTE	-16,3409196	-49,23461099		671123,928	8167415,726	8167415,726	671123,928	781,245	-9,57	790,815
17509	M-233	BO	-16,34252051	-49,2332171		671533,196	8166920,335	8166920,335	671533,196	782,078	-9,57	791,648
17512	M-233	POSTE	-16,34079227	-49,23469655		671098,878	8167455,067	8167455,067	671098,878	783,199	-9,57	792,769
17515	M-233	POSTE	-16,34083772	-49,23475811		671080,518	8167441,244	8167441,244	671080,518	782,413	-9,57	791,983
17539	M-233	CERCA	-16,3410363	-49,2346839		671102,027	8167380,029	8167380,029	671102,027	780,651	-9,57	790,221
17571	M-233	TN	-16,34102726	-49,23467355		671105,118	8167382,784	8167382,784	671105,118	780,531	-9,57	790,101
17574	M-233	BO	-16,34249027	-49,23321756		671533,133	8166929,632	8166929,632	671533,133	781,795	-9,57	791,365
17601	M-233	BO	-16,3424915	-49,23322797		671530,043	8166929,279	8166929,279	671530,043	781,969	-9,57	791,539
17626	M-233	BO	-16,34100269	-49,23464393		671113,959	8167390,266	8167390,266	671113,959	780,43	-9,57	790
17654	M-233	TN	-16,34099867	-49,23463779		671115,788	8167391,487	8167391,487	671115,788	780,322	-9,57	789,892
17657	M-233	PT	-16,34249062	-49,23323754		671527,21	8166929,57	8166929,57	671527,21	781,894	-9,57	791,464
17691	M-233	BO	-16,3424935	-49,23324523		671524,922	8166928,705	8166928,705	671524,922	781,842	-9,57	791,412
17723	M-233	TN	-16,34095843	-49,23458226		671132,35	8167403,725	8167403,725	671132,35	780,648	-9,57	790,218
17746	M-233	BO	-16,34095298	-49,23457382		671134,865	8167405,379	8167405,379	671134,865	780,716	-9,57	790,286
17748	M-233	BO	-16,34249534	-49,23326755		671518,301	8166928,191	8166928,191	671518,301	781,729	-9,57	791,299
17761	M-233	TN	-16,34163072	-49,23394079		671320,855	8167195,555	8167195,555	671320,855	765,893	-9,57	775,463
17764	M-233	na	-16,34163197	-49,23393984		671321,134	8167195,168	8167195,168	671321,134	765,548	-9,57	775,118
17767	M-233	FUNDO	-16,3416321	-49,23393975		671321,16	8167195,129	8167195,129	671321,16	765,284	-9,57	774,854
17770	M-233	FUNDO	-16,34163693	-49,23393685		671322,008	8167193,636	8167193,636	671322,008	765,352	-9,57	774,922
17777	M-233	MG	-16,34249098	-49,23327197		671517,001	8166929,541	8166929,541	671517,001	781,708	-9,57	791,278
17780	M-233	TN	-16,34164069	-49,23393479		671322,608	8167192,477	8167192,477	671322,608	766,091	-9,57	775,661

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
17783	M-233	TN	-16,34161615	-49,23392399		671325,872	8167199,995	8167199,995	671325,872	765,888	-9,57	775,458
17786	M-233	na	-16,34161919	-49,23392202		671326,448	8167199,055	8167199,055	671326,448	765,644	-9,57	775,214
17789	M-233	FUNDO	-16,34161931	-49,23392197		671326,462	8167199,017	8167199,017	671326,462	765,072	-9,57	774,642
17792	M-233	TN	-16,34161055	-49,23391463		671328,661	8167201,693	8167201,693	671328,661	766,129	-9,57	775,699
17795	M-233	TN	-16,34161455	-49,23391201		671329,427	8167200,457	8167200,457	671329,427	766,178	-9,57	775,748
17800	M-233	na	-16,34161649	-49,23391176		671329,497	8167199,86	8167199,86	671329,497	765,719	-9,57	775,289
17806	M-233	na	-16,34161921	-49,23390586		671331,239	8167199,01	8167199,01	671331,239	765,671	-9,57	775,241
17809	M-233	TN	-16,3409347	-49,23454564		671143,262	8167410,931	8167410,931	671143,262	780,75	-9,57	790,32
17811	M-233	FUNDO	-16,34161925	-49,23390581		671331,253	8167198,999	8167198,999	671331,253	765,423	-9,57	774,993
17813	M-233	TN	-16,34163498	-49,23391133		671329,577	8167194,177	8167194,177	671329,577	765,856	-9,57	775,426
17816	M-233	na	-16,34163014	-49,23391481		671328,558	8167195,673	8167195,673	671328,558	765,622	-9,57	775,192
17818	M-233	FUNDO	-16,34162939	-49,23391558		671328,331	8167195,904	8167195,904	671328,331	764,927	-9,57	774,497
17821	M-233	TN	-16,34176537	-49,23410102		671273,027	8167154,546	8167154,546	671273,027	766,42	-9,57	775,99
17825	M-233	na	-16,34176284	-49,23410362		671272,261	8167155,331	8167155,331	671272,261	765,883	-9,57	775,453
17828	M-233	FUNDO	-16,34176274	-49,23410373		671272,23	8167155,36	8167155,36	671272,23	765,527	-9,57	775,097
17830	M-233	TN	-16,34175807	-49,23410799		671270,978	8167156,806	8167156,806	671270,978	765,894	-9,57	775,464
17831	M-233	na	-16,34175999	-49,23410564		671271,671	8167156,212	8167156,212	671271,671	765,907	-9,57	775,477
17833	M-233	FUNDO	-16,34176017	-49,23410529		671271,774	8167156,156	8167156,156	671271,774	765,675	-9,57	775,245
17836	M-233	MAG_BO	-16,34092221	-49,23452596		671149,129	8167414,724	8167414,724	671149,129	780,267	-9,57	789,837
17837	M-233	TN	-16,34176931	-49,23411377		671269,236	8167153,364	8167153,364	671269,236	766,107	-9,57	775,677
17838	M-233	na	-16,34177039	-49,23411255		671269,597	8167153,029	8167153,029	671269,597	765,899	-9,57	775,469
17841	M-233	FUNDO	-16,34177054	-49,23411249		671269,614	8167152,985	8167152,985	671269,614	765,655	-9,57	775,225
17844	M-233	FUNDO	-16,34177206	-49,23411138		671269,94	8167152,515	8167152,515	671269,94	765,726	-9,57	775,296

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
17851	M-233	TN	-16,34177155	-49,23412441		671266,078	8167152,701	8167152,701	671266,078	766,29	-9,57	775,86
17855	M-233	na	-16,34177413	-49,23412464		671266,003	8167151,91	8167151,91	671266,003	765,937	-9,57	775,507
17858	M-233	FUNDO	-16,34177419	-49,23412456		671266,025	8167151,89	8167151,89	671266,025	765,751	-9,57	775,321
17861	M-233	FUNDO	-16,34177609	-49,23412462		671266,005	8167151,307	8167151,307	671266,005	765,783	-9,57	775,353
17864	M-233	MAG_BO	-16,34090627	-49,23449806		671157,438	8167419,556	8167419,556	671157,438	780,307	-9,57	789,877
17870	M-233	TN	-16,34177989	-49,23412364		671266,284	8167150,136	8167150,136	671266,284	766,711	-9,57	776,281
17873	M-233	na	-16,34177346	-49,23413489		671262,965	8167152,141	8167152,141	671262,965	765,946	-9,57	775,516
17877	M-233	FUNDO	-16,34177354	-49,23413492		671262,958	8167152,114	8167152,114	671262,958	765,743	-9,57	775,313
17879	M-233	FUNDO	-16,34177522	-49,23413502		671262,922	8167151,599	8167151,599	671262,922	765,757	-9,57	775,327
17882	M-233	na	-16,34177513	-49,23413508		671262,906	8167151,627	8167151,627	671262,906	765,971	-9,57	775,541
17885	M-233	TN	-16,34177907	-49,23413523		671262,851	8167150,415	8167150,415	671262,851	766,623	-9,57	776,193
17888	M-233	TN	-16,34175687	-49,23414324		671260,532	8167157,259	8167157,259	671260,532	766,423	-9,57	775,993
17891	M-233	na	-16,34175832	-49,2341441		671260,274	8167156,815	8167156,815	671260,274	766,168	-9,57	775,738
17895	M-233	MG	-16,34250981	-49,23329514		671510,086	8166923,809	8166923,809	671510,086	781,791	-9,57	791,361
17898	M-233	FUNDO	-16,34175883	-49,23414408		671260,277	8167156,657	8167156,657	671260,277	765,848	-9,57	775,418
17900	M-233	FUNDO	-16,34175938	-49,23414511		671259,971	8167156,491	8167156,491	671259,971	765,876	-9,57	775,446
17903	M-233	na	-16,34175936	-49,23414511		671259,97	8167156,497	8167156,497	671259,97	766,029	-9,57	775,599
17906	M-233	TN	-16,34176136	-49,23414601		671259,698	8167155,886	8167155,886	671259,698	766,658	-9,57	776,228
17925	M-233	MAG_BO	-16,34099448	-49,23447928		671162,789	8167392,398	8167392,398	671162,789	778,981	-9,57	788,551
17927	M-233	MG	-16,34251684	-49,23329378		671510,473	8166921,645	8166921,645	671510,473	781,88	-9,57	791,45
17958	M-233	TN	-16,34100238	-49,23449804		671157,207	8167390,014	8167390,014	671157,207	779,439	-9,57	789,009
17993	M-233	MG	-16,34265254	-49,2331458		671554,007	8166879,581	8166879,581	671554,007	783,57	-9,57	793,14
17996	M-233	BO	-16,34100837	-49,23450918		671153,892	8167388,201	8167388,201	671153,892	779,516	-9,57	789,086

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
18029	M-233	PT	-16,3425636	-49,23324743		671524,097	8166907,162	8166907,162	671524,097	782,891	-9,57	792,461
18062	M-233	TN	-16,34102584	-49,23453634		671145,796	8167382,893	8167382,893	671145,796	779,342	-9,57	788,912
18086	M-233	MG	-16,34260019	-49,23322014		671532,097	8166895,849	8166895,849	671532,097	782,95	-9,57	792,52
18120	M-233	TN	-16,34106157	-49,23458705		671130,677	8167372,031	8167372,031	671130,677	779,005	-9,57	788,575
18146	M-233	BO	-16,34106679	-49,2345935		671128,75	8167370,443	8167370,443	671128,75	779,485	-9,57	789,055
18170	M-233	BO	-16,34108051	-49,23461208		671123,209	8167366,27	8167366,27	671123,209	779,444	-9,57	789,014
18185	M-233	TN	-16,3410898	-49,23462422		671119,587	8167363,443	8167363,443	671119,587	779,31	-9,57	788,88
18186	M-233	MG	-16,34266192	-49,23317677		671544,801	8166876,771	8166876,771	671544,801	783,536	-9,57	793,106
18204	M-233	CERCA	-16,34109859	-49,23463545		671116,238	8167360,767	8167360,767	671116,238	779,207	-9,57	788,777
18228	M-233	CERCA	-16,34120747	-49,2345502		671141,243	8167327,098	8167327,098	671141,243	776,877	-9,57	786,447
18249	M-233	TN	-16,34119634	-49,23453597		671145,488	8167330,484	8167330,484	671145,488	777,12	-9,57	786,69
18250	M-233	ACOST	-16,34265662	-49,23323959		671526,192	8166878,55	8166878,55	671526,192	784,726	-9,57	794,296
18261	M-233	BO	-16,34118978	-49,23452677		671148,231	8167332,481	8167332,481	671148,231	777,275	-9,57	786,845
18264	M-233	BO	-16,34266267	-49,23324612		671524,243	8166876,706	8166876,706	671524,243	784,782	-9,57	794,352
18274	M-233	BO	-16,34267866	-49,23326296		671519,212	8166871,831	8166871,831	671519,212	784,946	-9,57	794,516
18285	M-233	TN	-16,34117149	-49,23450076		671155,985	8167338,039	8167338,039	671155,985	777,039	-9,57	786,609
18296	M-233	TN	-16,34269365	-49,23328303		671513,224	8166867,271	8166867,271	671513,224	783,257	-9,57	792,827
18304	M-233	BO	-16,34113961	-49,23444967		671171,209	8167347,717	8167347,717	671171,209	777,464	-9,57	787,034
18308	M-233	BO	-16,34112714	-49,23443039		671176,955	8167351,505	8167351,505	671176,955	777,265	-9,57	786,835
18312	M-233	BO	-16,34271014	-49,23330229		671507,474	8166862,247	8166862,247	671507,474	784,248	-9,57	793,818
18314	M-233	MAG_BO	-16,3411107	-49,23440346		671184,978	8167356,495	8167356,495	671184,978	776,801	-9,57	786,371
18316	M-233	BO	-16,34272437	-49,23332099		671501,897	8166857,92	8166857,92	671501,897	784,245	-9,57	793,815
18319	M-233	MG	-16,34263993	-49,23315534		671551,21	8166883,482	8166883,482	671551,21	783,5	-9,57	793,07

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENADAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
18322	M-233	MAG_BO	-16,34109366	-49,23437497		671193,467	8167361,665	8167361,665	671193,467	776,824	-9,57	786,394
18326	M-233	MAG_BO	-16,34118119	-49,23431023		671212,444	8167334,608	8167334,608	671212,444	775,032	-9,57	784,602
18329	M-233	MAG_BO	-16,34120214	-49,23433395		671205,361	8167328,223	8167328,223	671205,361	774,818	-9,57	784,388
18332	M-233	TN	-16,34275284	-49,23336034		671490,162	8166849,261	8166849,261	671490,162	784,201	-9,57	793,771
18335	M-233	BO	-16,34122539	-49,23436494		671196,115	8167321,152	8167321,152	671196,115	775,63	-9,57	785,2
18339	M-233	BO	-16,34122537	-49,23436495		671196,113	8167321,158	8167321,158	671196,113	775,633	-9,57	785,203
18342	M-233	ACE	-16,34262826	-49,23342407		671471,577	8166887,706	8166887,706	671471,577	782,796	-9,57	792,366
18344	M-233	TN	-16,3412425	-49,23438944		671188,813	8167315,949	8167315,949	671188,813	775,806	-9,57	785,376
18347	M-233	BO	-16,34261393	-49,23340744		671476,542	8166892,071	8166892,071	671476,542	782,957	-9,57	792,527
18349	M-233	TN	-16,34126197	-49,23442636		671177,82	8167310,052	8167310,052	671177,82	774,953	-9,57	784,523
18352	M-233	BO	-16,34259836	-49,23339008		671481,727	8166896,815	8166896,815	671481,727	782,952	-9,57	792,522
18354	M-233	MG	-16,34263619	-49,23315672		671550,81	8166884,632	8166884,632	671550,81	783,414	-9,57	792,984
18359	M-233	BO	-16,34126852	-49,23443523		671175,173	8167308,061	8167308,061	671175,173	775,014	-9,57	784,584
18363	M-233	BO	-16,34128419	-49,2344528		671169,926	8167303,284	8167303,284	671169,926	774,847	-9,57	784,417
18366	M-233	TN	-16,34258662	-49,23337228		671487,031	8166900,381	8166900,381	671487,031	781,85	-9,57	791,42
18370	M-233	CERCA	-16,34130417	-49,23447582		671163,054	8167297,198	8167297,198	671163,054	774,172	-9,57	783,742
18374	M-233	CERCA	-16,34139157	-49,23440772		671183,027	8167270,173	8167270,173	671183,027	771,875	-9,57	781,445
18378	M-233	ACOST	-16,34257204	-49,23335372		671492,57	8166904,819	8166904,819	671492,57	783,601	-9,57	793,171
18381	M-233	BO	-16,34256908	-49,23334934		671493,876	8166905,718	8166905,718	671493,876	783,591	-9,57	793,161
18385	M-233	BO	-16,34255439	-49,23333105		671499,333	8166910,191	8166910,191	671499,333	783,459	-9,57	793,029
18386	M-233	TN	-16,34135076	-49,23435507		671198,734	8167282,592	8167282,592	671198,734	772,574	-9,57	782,144
18389	M-233	ACOST	-16,34254849	-49,23332433		671501,339	8166911,99	8166911,99	671501,339	783,363	-9,57	792,933
18399	M-233	TN	-16,34133602	-49,23433643		671204,295	8167287,077	8167287,077	671204,295	773,16	-9,57	782,73

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
18403	M-233	TN	-16,34252155	-49,2332938		671510,456	8166920,196	8166920,196	671510,456	782,022	-9,57	791,592
18406	M-233	TN	-16,34238466	-49,23334111		671496,769	8166962,386	8166962,386	671496,769	780,624	-9,57	790,194
18410	M-233	MG	-16,34239251	-49,23335313		671493,186	8166960,002	8166960,002	671493,186	780,282	-9,57	789,852
18411	M-233	TN	-16,34130728	-49,23429367		671217,044	8167295,812	8167295,812	671217,044	773,865	-9,57	783,435
18412	M-233	MG	-16,34240787	-49,23337866		671485,579	8166955,341	8166955,341	671485,579	780,197	-9,57	789,767
18415	M-233	TN	-16,34130375	-49,2342887		671218,525	8167296,885	8167296,885	671218,525	773,376	-9,57	782,946
18416	M-233	TN	-16,34241292	-49,23338609		671483,366	8166953,808	8166953,808	671483,366	780,406	-9,57	789,976
18420	M-233	TN	-16,3412922	-49,23427153		671223,642	8167300,393	8167300,393	671223,642	773,511	-9,57	783,081
18421	M-233	TN	-16,3424201	-49,23339777		671479,885	8166951,626	8166951,626	671479,885	780,675	-9,57	790,245
18425	M-233	MAG_BO	-16,34128743	-49,23426541		671225,468	8167301,845	8167301,845	671225,468	773,255	-9,57	782,825
18429	M-233	ACOST	-16,34243258	-49,23341545		671474,612	8166947,834	8166947,834	671474,612	781,601	-9,57	791,171
18433	M-233	MAG_BO	-16,34136782	-49,23416235		671255,821	8167276,891	8167276,891	671255,821	771,128	-9,57	780,698
18441	M-233	MAG_BO	-16,34138992	-49,23418772		671248,247	8167270,159	8167270,159	671248,247	770,802	-9,57	780,372
18445	M-233	TN	-16,34140165	-49,23420132		671244,187	8167266,583	8167266,583	671244,187	770,872	-9,57	780,442
18448	M-233	TN	-16,34141237	-49,23421303		671240,689	8167263,316	8167263,316	671240,689	772,15	-9,57	781,72
18449	M-233	BO	-16,34141986	-49,23422208		671237,989	8167261,037	8167261,037	671237,989	772,289	-9,57	781,859
18452	M-233	PT	-16,34245911	-49,23346643		671459,437	8166939,799	8166939,799	671459,437	780,474	-9,57	790,044
18455	M-233	BO	-16,34143391	-49,23424036		671232,535	8167256,76	8167256,76	671232,535	772,394	-9,57	781,964
18457	M-233	TN	-16,34143885	-49,23424719		671230,498	8167255,258	8167255,258	671230,498	772,404	-9,57	781,974
18460	M-233	ACOST	-16,34246934	-49,23347897		671455,692	8166936,685	8166936,685	671455,692	780,9	-9,57	790,47
18463	M-233	TN	-16,34144694	-49,23425781		671227,33	8167252,797	8167252,797	671227,33	770,458	-9,57	780,028
18468	M-233	TN	-16,34145821	-49,23427066		671223,492	8167249,364	8167249,364	671223,492	770,433	-9,57	780,003
18471	M-233	ACOST	-16,34249413	-49,23351286		671445,586	8166929,146	8166929,146	671445,586	780,938	-9,57	790,508

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENDAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-233		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
18474	M-233	TN	-16,34250453	-49,23352619		671441,61	8166925,98	8166925,98	671441,61	781,007	-9,57	790,577

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-235		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
246	M-235	TN	-16,33489432	-49,24036842	22S	670607,911	8168042,411	8168042,411	670607,911	787,103	-9,45	796,553
248	M-235	TN	-16,33488617	-49,24035572	22S	670611,693	8168044,886	8168044,886	670611,693	788,202	-9,45	797,652
252	M-235	TN	-16,3348522	-49,24031148	22S	670624,891	8168055,223	8168055,223	670624,891	786,762	-9,45	796,212
253	M-235	TN	-16,33484394	-49,24030107	22S	670628	8168057,736	8168057,736	670628	786,977	-9,45	796,427
280	M-235	TN	-16,33486963	-49,24040933	22S	670595,842	8168050,097	8168050,097	670595,842	788,525	-9,45	797,975
281	M-235	CERCA	-16,33487239	-49,2404138	22S	670594,511	8168049,257	8168049,257	670594,511	788,395	-9,45	797,845
296	M-235	TN	-16,33469865	-49,24031075	22S	670625,484	8168102,42	8168102,42	670625,484	785,96	-9,45	795,41
297	M-235	TN	-16,33469386	-49,24030497	22S	670627,211	8168103,877	8168103,877	670627,211	786,568	-9,45	796,018
307	M-235	BO	-16,33488717	-49,24021386	22S	670653,747	8168044,244	8168044,244	670653,747	787,941	-9,45	797,391
337	M-235	MAG_BO	-16,33490401	-49,24010862	22S	670684,903	8168038,819	8168038,819	670684,903	786,521	-9,45	795,971
343	M-235	POSTE	-16,3347791	-49,24028483	22S	670632,973	8168077,629	8168077,629	670632,973	787,432	-9,45	796,882
344	M-235	POSTE	-16,33485889	-49,24029732	22S	670629,073	8168053,132	8168053,132	670629,073	786,761	-9,45	796,211
4502	M-235	ACE	-16,33535587	-49,23597903	22S	670722,214	8167899,62	8167899,62	670722,214	788,986	-9,45	798,436
4530	M-235	PT	-16,33529995	-49,23576993	22S	670784,338	8167916,314	8167916,314	670784,338	788,074	-9,45	797,524
4532	M-235	MG	-16,3353206	-49,23579934	22S	670775,568	8167910,039	8167910,039	670775,568	788,203	-9,45	797,653
4533	M-235	MG	-16,33530921	-49,23581179	22S	670771,905	8167913,568	8167913,568	670771,905	788,163	-9,45	797,613
4534	M-235	MG	-16,33529311	-49,23582818	22S	670767,087	8167918,556	8167918,556	670767,087	788,113	-9,45	797,563
4535	M-235	MG	-16,33527995	-49,23584164	22S	670763,128	8167922,631	8167922,631	670763,128	788,119	-9,45	797,569
4536	M-235	MG	-16,3352696	-49,2358514	22S	670760,262	8167925,836	8167925,836	670760,262	788,072	-9,45	797,522
4537	M-235	ACE	-16,3352661	-49,23585753	22S	670758,451	8167926,927	8167926,927	670758,451	788,109	-9,45	797,559
4538	M-235	ACE	-16,33526719	-49,23586116	22S	670757,374	8167926,601	8167926,601	670757,374	788,268	-9,45	797,718
4539	M-235	ACE	-16,33526977	-49,23586493	22S	670756,25	8167925,815	8167925,815	670756,25	788,263	-9,45	797,713
4540	M-235	ACE	-16,3352768	-49,23586904	22S	670755,014	8167923,665	8167923,665	670755,014	788,539	-9,45	797,989

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-235		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
4541	M-235	ACE	-16,33528787	-49,23586888	22S	670755,033	8167920,261	8167920,261	670755,033	788,947	-9,45	798,397
4542	M-235	ACE	-16,33529098	-49,23586745	22S	670755,45	8167919,302	8167919,302	670755,45	788,88	-9,45	798,33
4543	M-235	ACOST	-16,33529995	-49,23586123	22S	670757,272	8167916,531	8167916,531	670757,272	788,925	-9,45	798,375
4544	M-235	ACOST	-16,33530775	-49,23585571	22S	670758,89	8167914,12	8167914,12	670758,89	788,974	-9,45	798,424
4545	M-235	PT	-16,33522171	-49,23591541	22S	670741,403	8167940,709	8167940,709	670741,403	788,388	-9,45	797,838
4546	M-235	PT	-16,33520225	-49,23590404	22S	670744,822	8167946,662	8167946,662	670744,822	787,793	-9,45	797,243
4547	M-235	ACOST	-16,33522509	-49,23592975	22S	670737,143	8167939,703	8167939,703	670737,143	788,56	-9,45	798,01
4548	M-235	ACE	-16,33523312	-49,23592117	22S	670739,666	8167937,216	8167937,216	670739,666	788,726	-9,45	798,176
4549	M-235	ACE	-16,33523774	-49,23591425	22S	670741,706	8167935,778	8167935,778	670741,706	788,685	-9,45	798,135
4550	M-235	ACE	-16,3352406	-49,23590652	22S	670743,993	8167934,882	8167934,882	670743,993	788,568	-9,45	798,018
4551	M-235	ACE	-16,3352399	-49,23589968	22S	670746,021	8167935,081	8167935,081	670746,021	788,574	-9,45	798,024
4552	M-235	ACE	-16,33523826	-49,23588918	22S	670749,138	8167935,559	8167935,559	670749,138	788,342	-9,45	797,792
4553	M-235	ACE	-16,33523821	-49,2358893	22S	670749,102	8167935,574	8167935,574	670749,102	788,351	-9,45	797,801
4554	M-235	ACE	-16,33523662	-49,23588239	22S	670751,156	8167936,046	8167936,046	670751,156	788,252	-9,45	797,702
4555	M-235	ACE	-16,33523377	-49,23587877	22S	670752,234	8167936,915	8167936,915	670752,234	788,141	-9,45	797,591
4556	M-235	MG	-16,33522733	-49,23587986	22S	670751,927	8167938,898	8167938,898	670751,927	788,032	-9,45	797,482
4557	M-235	MG	-16,33520206	-49,23589953	22S	670746,157	8167946,712	8167946,712	670746,157	788,106	-9,45	797,556
4558	M-235	PT	-16,33518595	-49,23588302	22S	670751,092	8167951,625	8167951,625	670751,092	787,91	-9,45	797,36
4559	M-235	ACE	-16,33515548	-49,23587276	22S	670754,209	8167960,965	8167960,965	670754,209	787,562	-9,45	797,012
4560	M-235	ACE	-16,33516268	-49,235881	22S	670751,747	8167958,771	8167958,771	670751,747	787,658	-9,45	797,108
4561	M-235	ACE	-16,33518061	-49,23588724	22S	670749,854	8167953,275	8167953,275	670749,854	787,749	-9,45	797,199
4562	M-235	ACE	-16,33518758	-49,23588441	22S	670750,676	8167951,127	8167951,127	670750,676	787,86	-9,45	797,31
4563	M-235	ACE	-16,33519784	-49,23587629	22S	670753,059	8167947,953	8167947,953	670753,059	787,984	-9,45	797,434

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-235		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
4564	M-235	ACE	-16,33521256	-49,23586386	22S	670756,707	8167943,4	8167943,4	670756,707	788,074	-9,45	797,524
4565	M-235	ACE	-16,33521823	-49,23585754	22S	670758,566	8167941,641	8167941,641	670758,566	788,063	-9,45	797,513
4566	M-235	ACE	-16,33522414	-49,23584761	22S	670761,495	8167939,801	8167939,801	670761,495	787,948	-9,45	797,398
4567	M-235	ACE	-16,3352275	-49,23583732	22S	670764,537	8167938,744	8167938,744	670764,537	787,878	-9,45	797,328
4568	M-235	ACE	-16,33522662	-49,23582677	22S	670767,668	8167938,989	8167938,989	670767,668	787,82	-9,45	797,27
4569	M-235	ACE	-16,3352247	-49,23581369	22S	670771,549	8167939,548	8167939,548	670771,549	787,922	-9,45	797,372
4570	M-235	ACE	-16,33522296	-49,23580472	22S	670774,213	8167940,062	8167940,062	670774,213	787,716	-9,45	797,166
4571	M-235	ACE	-16,33522105	-49,23579341	22S	670777,57	8167940,622	8167940,622	670777,57	787,729	-9,45	797,179
4572	M-235	ACE	-16,33524749	-49,23578184	22S	670780,937	8167932,47	8167932,47	670780,937	787,859	-9,45	797,309
4573	M-235	ACE	-16,33525152	-49,23579023	22S	670778,44	8167931,249	8167931,249	670778,44	787,9	-9,45	797,35
4574	M-235	ACE	-16,33526075	-49,23579618	22S	670776,653	8167928,426	8167928,426	670776,653	787,935	-9,45	797,385
4575	M-235	ACE	-16,33526869	-49,23579884	22S	670775,843	8167925,993	8167925,993	670775,843	787,874	-9,45	797,324
4576	M-235	ACE	-16,33527698	-49,23579634	22S	670776,565	8167923,438	8167923,438	670776,565	787,876	-9,45	797,326
4577	M-235	MG	-16,33528779	-49,23578664	22S	670779,415	8167920,092	8167920,092	670779,415	787,91	-9,45	797,36
4578	M-235	ACE	-16,33513158	-49,23588777	22S	670749,817	8167968,346	8167968,346	670749,817	787,392	-9,45	796,842
4579	M-235	ACE	-16,33513107	-49,23589789	22S	670746,818	8167968,527	8167968,527	670746,818	787,472	-9,45	796,922
4580	M-235	ACE	-16,33512778	-49,23590634	22S	670744,32	8167969,559	8167969,559	670744,32	787,578	-9,45	797,028
4581	M-235	ACE	-16,33512095	-49,23591093	22S	670742,976	8167971,668	8167971,668	670742,976	787,455	-9,45	796,905
4582	M-235	ACE	-16,33511474	-49,2359135	22S	670742,23	8167973,585	8167973,585	670742,23	787,402	-9,45	796,852
4583	M-235	PT	-16,33511523	-49,23591151	22S	670742,82	8167973,43	8167973,43	670742,82	787,448	-9,45	796,898
4584	M-235	ACE	-16,33510494	-49,23591624	22S	670741,441	8167976,602	8167976,602	670741,441	787,454	-9,45	796,904
4585	M-235	ACE	-16,33509012	-49,23591741	22S	670741,132	8167981,162	8167981,162	670741,132	787,232	-9,45	796,682
4586	M-235	ACE	-16,33508138	-49,23594891	22S	670731,816	8167983,922	8167983,922	670731,816	787,175	-9,45	796,625

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-235		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
4587	M-235	ACE	-16,33508709	-49,23594838	22S	670731,957	8167982,167	8167982,167	670731,957	787,252	-9,45	796,702
4588	M-235	ACE	-16,33509236	-49,23595085	22S	670731,214	8167980,551	8167980,551	670731,214	787,327	-9,45	796,777
4589	M-235	ACE	-16,33509677	-49,23595593	22S	670729,697	8167979,209	8167979,209	670729,697	787,397	-9,45	796,847
4590	M-235	MG	-16,33508845	-49,23596322	22S	670727,554	8167981,783	8167981,783	670727,554	787,576	-9,45	797,026
4591	M-235	PT	-16,3350834	-49,23596474	22S	670727,117	8167983,339	8167983,339	670727,117	787,396	-9,45	796,846
4592	M-235	PT	-16,33504323	-49,23599817	22S	670717,305	8167995,766	8167995,766	670717,305	787,101	-9,45	796,551
4593	M-235	PT	-16,33500683	-49,2400271	22S	670708,819	8168007,022	8168007,022	670708,819	786,933	-9,45	796,383
4594	M-235	PT	-16,33500562	-49,2400256	22S	670709,267	8168007,389	8168007,389	670709,267	786,918	-9,45	796,368
4595	M-235	MG	-16,33499919	-49,24003304	22S	670707,075	8168009,384	8168009,384	670707,075	786,998	-9,45	796,448
4596	M-235	MG	-16,33499358	-49,24003789	22S	670705,652	8168011,121	8168011,121	670705,652	786,924	-9,45	796,374
4597	M-235	ACE	-16,33499213	-49,24003646	22S	670706,079	8168011,563	8168011,563	670706,079	786,943	-9,45	796,393
4598	M-235	ACE	-16,33499268	-49,24002764	22S	670708,693	8168011,372	8168011,372	670708,693	786,784	-9,45	796,234
4599	M-235	ACE	-16,33499318	-49,24001844	22S	670711,418	8168011,196	8168011,196	670711,418	786,701	-9,45	796,151
4600	M-235	ACE	-16,3349933	-49,24001053	22S	670713,764	8168011,141	8168011,141	670713,764	786,571	-9,45	796,021
4601	M-235	ACE	-16,33497036	-49,24001166	22S	670713,485	8168018,195	8168018,195	670713,485	786,258	-9,45	795,708
4603	M-235	ACE	-16,33496966	-49,2400184	22S	670711,488	8168018,426	8168018,426	670711,488	786,357	-9,45	795,807
4604	M-235	ACE	-16,3349666	-49,24003128	22S	670707,678	8168019,397	8168019,397	670707,678	786,503	-9,45	795,953
4605	M-235	ACE	-16,33496015	-49,24004387	22S	670703,961	8168021,411	8168021,411	670703,961	786,576	-9,45	796,026
4607	M-235	ACE	-16,33495358	-49,24005422	22S	670700,908	8168023,453	8168023,453	670700,908	786,669	-9,45	796,119
4608	M-235	ACE	-16,33494506	-49,24006628	22S	670697,355	8168026,102	8168026,102	670697,355	786,676	-9,45	796,126
4609	M-235	ACE	-16,33493602	-49,24007933	22S	670693,507	8168028,91	8168028,91	670693,507	786,626	-9,45	796,076
4610	M-235	ACE	-16,3349279	-49,24008893	22S	670690,682	8168031,428	8168031,428	670690,682	786,643	-9,45	796,093
4611	M-235	MG	-16,33492007	-49,24009581	22S	670688,661	8168033,852	8168033,852	670688,661	786,624	-9,45	796,074

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-235		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
4613	M-235	TN	-16,3352414	-49,23581977	22S	670769,707	8167934,431	8167934,431	670769,707	787,896	-9,45	797,346
4614	M-235	TN	-16,33527096	-49,2358562	22S	670758,833	8167925,429	8167925,429	670758,833	788,303	-9,45	797,753
4615	M-235	TN	-16,33527758	-49,23586294	22S	670756,821	8167923,412	8167923,412	670756,821	788,444	-9,45	797,894
4616	M-235	BO	-16,33529395	-49,23587939	22S	670751,904	8167918,418	8167918,418	670751,904	789,027	-9,45	798,477
4617	M-235	BO	-16,33530867	-49,23589812	22S	670746,314	8167913,938	8167913,938	670746,314	789,111	-9,45	798,561
4618	M-235	ACOST	-16,33531228	-49,23590341	22S	670744,739	8167912,84	8167912,84	670744,739	789,122	-9,45	798,572
4619	M-235	ACE	-16,33531394	-49,23591126	22S	670742,408	8167912,35	8167912,35	670742,408	788,906	-9,45	798,356
4620	M-235	PT	-16,33532332	-49,2359244	22S	670738,49	8167909,498	8167909,498	670738,49	788,634	-9,45	798,084
4621	M-235	TN	-16,33533123	-49,23594005	22S	670733,829	8167907,103	8167907,103	670733,829	789,127	-9,45	798,577
4622	M-235	ACOST	-16,33533529	-49,23594321	22S	670732,882	8167905,861	8167905,861	670732,882	788,933	-9,45	798,383
4623	M-235	BO	-16,3353409	-49,23595143	22S	670730,433	8167904,158	8167904,158	670730,433	789,041	-9,45	798,491
4624	M-235	BO	-16,33535473	-49,23596971	22S	670724,98	8167899,95	8167899,95	670724,98	789,097	-9,45	798,547
4625	M-235	ACOST	-16,33536067	-49,23597722	22S	670722,739	8167898,141	8167898,141	670722,739	788,916	-9,45	798,366
4626	M-235	TN	-16,3353711	-49,23598939	22S	670719,104	8167894,963	8167894,963	670719,104	788,966	-9,45	798,416
4627	M-235	TN	-16,33526161	-49,24008539	22S	670690,914	8167928,845	8167928,845	670690,914	788,699	-9,45	798,149
4628	M-235	TN	-16,33524891	-49,24007093	22S	670695,232	8167932,716	8167932,716	670695,232	788,545	-9,45	797,995
4629	M-235	ACOST	-16,33524484	-49,24006632	22S	670696,608	8167933,955	8167933,955	670696,608	788,514	-9,45	797,964
4630	M-235	BO	-16,33523982	-49,24006043	22S	670698,366	8167935,485	8167935,485	670698,366	788,677	-9,45	798,127
4631	M-235	BO	-16,33522496	-49,24004265	22S	670703,673	8167940,009	8167940,009	670703,673	788,689	-9,45	798,139
4632	M-235	ACOST	-16,33521877	-49,2400354	22S	670705,839	8167941,896	8167941,896	670705,839	788,506	-9,45	797,956
4633	M-235	PT	-16,33520848	-49,2400231	22S	670709,511	8167945,028	8167945,028	670709,511	788,335	-9,45	797,785
4634	M-235	TN	-16,33519783	-49,24000981	22S	670713,477	8167948,271	8167948,271	670713,477	788,455	-9,45	797,905
4635	M-235	ACOST	-16,33519332	-49,24000523	22S	670714,846	8167949,648	8167949,648	670714,846	788,572	-9,45	798,022

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-235		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
4636	M-235	BO	-16,33519001	-49,24000086	22S	670716,15	8167950,655	8167950,655	670716,15	788,564	-9,45	798,014
4637	M-235	BO	-16,33517564	-49,23598267	22S	670721,577	8167955,029	8167955,029	670721,577	788,403	-9,45	797,853
4638	M-235	ACOST	-16,33517078	-49,23597646	22S	670723,429	8167956,507	8167956,507	670723,429	788,334	-9,45	797,784
4639	M-235	TN	-16,33516622	-49,23596962	22S	670725,468	8167957,894	8167957,894	670725,468	787,784	-9,45	797,234
4640	M-235	TN	-16,33515514	-49,23595499	22S	670729,831	8167961,265	8167961,265	670729,831	787,419	-9,45	796,869
4641	M-235	TN	-16,33514741	-49,23594626	22S	670732,438	8167963,619	8167963,619	670732,438	787,422	-9,45	796,872
4642	M-235	MG	-16,33514615	-49,23594393	22S	670733,132	8167964,002	8167964,002	670733,132	787,41	-9,45	796,86
4643	M-235	PT	-16,33507919	-49,23599816	22S	670717,221	8167984,71	8167984,71	670717,221	787,187	-9,45	796,637
4644	M-235	TN	-16,33501357	-49,24001196	22S	670713,289	8168004,913	8168004,913	670713,289	786,883	-9,45	796,333
4645	M-235	TN	-16,33503266	-49,24003747	22S	670705,682	8167999,108	8167999,108	670705,682	786,921	-9,45	796,371
4646	M-235	TN	-16,33504193	-49,24004834	22S	670702,435	8167996,283	8167996,283	670702,435	787,3	-9,45	796,75
4647	M-235	TN	-16,33505302	-49,24006331	22S	670697,971	8167992,91	8167992,91	670697,971	787,537	-9,45	796,987
4648	M-235	ACOST	-16,33505686	-49,24006848	22S	670696,428	8167991,742	8167991,742	670696,428	788,038	-9,45	797,488
4649	M-235	BO	-16,33506175	-49,24007583	22S	670694,239	8167990,255	8167990,255	670694,239	788,093	-9,45	797,543
4650	M-235	BO	-16,33507577	-49,24009453	22S	670688,66	8167985,989	8167985,989	670688,66	788,215	-9,45	797,665
4651	M-235	ACOST	-16,33507937	-49,24009867	22S	670687,423	8167984,892	8167984,892	670687,423	788,267	-9,45	797,717
4652	M-235	TN	-16,33508466	-49,24010462	22S	670685,646	8167983,282	8167983,282	670685,646	787,556	-9,45	797,006
4653	M-235	PT	-16,33509039	-49,2401147	22S	670682,644	8167981,544	8167981,544	670682,644	787,482	-9,45	796,932
4654	M-235	TN	-16,33509537	-49,24012189	22S	670680,502	8167980,029	8167980,029	670680,502	787,651	-9,45	797,101
4655	M-235	ACOST	-16,33510082	-49,24012781	22S	670678,732	8167978,369	8167978,369	670678,732	788,288	-9,45	797,738
4656	M-235	BO	-16,33510666	-49,24013538	22S	670676,475	8167976,591	8167976,591	670676,475	788,558	-9,45	798,008
4657	M-235	BO	-16,33511965	-49,24015532	22S	670670,53	8167972,645	8167972,645	670670,53	788,507	-9,45	797,957
4658	M-235	ACOST	-16,3351252	-49,24016212	22S	670668,503	8167970,957	8167970,957	670668,503	788,344	-9,45	797,794

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-235		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
4659	M-235	TN	-16,33513183	-49,24017015	22S	670666,105	8167968,936	8167968,936	670666,105	788,452	-9,45	797,902
4660	M-235	TN	-16,33513987	-49,24018131	22S	670662,776	8167966,493	8167966,493	670662,776	788,48	-9,45	797,93
4661	M-235	TN	-16,33502632	-49,24026753	22S	670637,496	8168001,597	8168001,597	670637,496	788,215	-9,45	797,665
4662	M-235	TN	-16,33501793	-49,24025582	22S	670640,987	8168004,151	8168004,151	670640,987	788,583	-9,45	798,033
4663	M-235	ACOST	-16,33501326	-49,24025018	22S	670642,67	8168005,573	8168005,573	670642,67	788,314	-9,45	797,764
4664	M-235	BO	-16,33500825	-49,24024301	22S	670644,807	8168007,094	8168007,094	670644,807	788,493	-9,45	797,943
4665	M-235	BO	-16,33499217	-49,24022592	22S	670649,913	8168011,997	8168011,997	670649,913	788,533	-9,45	797,983
4666	M-235	ACOST	-16,33498601	-49,24021852	22S	670652,124	8168013,873	8168013,873	670652,124	788,215	-9,45	797,665
4667	M-235	TN	-16,33498272	-49,24021546	22S	670653,037	8168014,876	8168014,876	670653,037	788,325	-9,45	797,775
4668	M-235	TN	-16,33497677	-49,24020862	22S	670655,08	8168016,691	8168016,691	670655,08	787,001	-9,45	796,451
4669	M-235	PT	-16,3349743	-49,24020687	22S	670655,606	8168017,445	8168017,445	670655,606	787,041	-9,45	796,491
4670	M-235	TN	-16,334969	-49,24019867	22S	670658,049	8168019,055	8168019,055	670658,049	787,097	-9,45	796,547
4671	M-235	TN	-16,33496495	-49,24019315	22S	670659,695	8168020,288	8168020,288	670659,695	788,13	-9,45	797,58
4672	M-235	ACOST	-16,33496208	-49,24019039	22S	670660,521	8168021,161	8168021,161	670660,521	788,147	-9,45	797,597
4673	M-235	BO	-16,33495882	-49,24018685	22S	670661,579	8168022,157	8168022,157	670661,579	788,108	-9,45	797,558
4674	M-235	BO	-16,3349453	-49,24016773	22S	670667,279	8168026,267	8168026,267	670667,279	788,007	-9,45	797,457
4675	M-235	ACOST	-16,33493978	-49,24016155	22S	670669,124	8168027,948	8168027,948	670669,124	787,992	-9,45	797,442
4676	M-235	PT	-16,3349513	-49,24014793	22S	670673,134	8168024,376	8168024,376	670673,134	787,572	-9,45	797,022
4677	M-235	TN	-16,33493782	-49,24014968	22S	670672,647	8168028,524	8168028,524	670672,647	786,635	-9,45	796,085
4678	M-235	TN	-16,33491556	-49,24013199	22S	670677,948	8168035,325	8168035,325	670677,948	786,435	-9,45	795,885
4679	M-235	MG	-16,33491241	-49,24012832	22S	670679,043	8168036,284	8168036,284	670679,043	786,439	-9,45	795,889
4680	M-235	MG	-16,33489864	-49,24011289	22S	670683,651	8168040,479	8168040,479	670683,651	786,555	-9,45	796,005
4682	M-235	PT	-16,33489423	-49,24011305	22S	670683,613	8168041,835	8168041,835	670683,613	786,711	-9,45	796,161

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-235		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
4683	M-235	ACE	-16,33493171	-49,24031495	22S	670623,669	8168030,792	8168030,792	670623,669	788,342	-9,45	797,792
4684	M-235	ACE	-16,33491258	-49,2403303	22S	670619,166	8168036,707	8168036,707	670619,166	788,372	-9,45	797,822
4685	M-235	ACE	-16,33489725	-49,24034235	22S	670615,632	8168041,448	8168041,448	670615,632	788,371	-9,45	797,821
4686	M-235	ACE	-16,33488919	-49,24035424	22S	670612,125	8168043,954	8168043,954	670612,125	788,234	-9,45	797,684
4687	M-235	ACE	-16,33488346	-49,24036385	22S	670609,29	8168045,737	8168045,737	670609,29	788,243	-9,45	797,693
4688	M-235	ACE	-16,33482089	-49,24041413	22S	670594,539	8168065,09	8168065,09	670594,539	788,302	-9,45	797,752
4689	M-235	ACE	-16,33479597	-49,24043429	22S	670588,624	8168072,797	8168072,797	670588,624	788,413	-9,45	797,863
4690	M-235	ACE	-16,33476969	-49,24045546	22S	670582,412	8168080,923	8168080,923	670582,412	788,554	-9,45	798,004
4691	M-235	ACE	-16,3347487	-49,24047219	22S	670577,503	8168087,415	8168087,415	670577,503	788,603	-9,45	798,053
4692	M-235	ACE	-16,33473179	-49,240486	22S	670573,451	8168092,646	8168092,646	670573,451	788,509	-9,45	797,959
4693	M-235	ACE	-16,33469425	-49,2405154	22S	670564,826	8168104,254	8168104,254	670564,826	788,708	-9,45	798,158
4694	M-235	TN	-16,33470511	-49,2405304	22S	670560,354	8168100,951	8168100,951	670560,354	788,951	-9,45	798,401
4695	M-235	ACOST	-16,33468771	-49,24050619	22S	670567,574	8168106,243	8168106,243	670567,574	788,751	-9,45	798,201
4696	M-235	BO	-16,33468413	-49,24049982	22S	670569,47	8168107,329	8168107,329	670569,47	788,916	-9,45	798,366
4697	M-235	BO	-16,33467077	-49,24048123	22S	670575,013	8168111,39	8168111,39	670575,013	788,879	-9,45	798,329
4698	M-235	ACOST	-16,33466489	-49,24047364	22S	670577,278	8168113,182	8168113,182	670577,278	788,621	-9,45	798,071
4699	M-235	TN	-16,33466153	-49,24046988	22S	670578,401	8168114,206	8168114,206	670578,401	788,617	-9,45	798,067
4700	M-235	TN	-16,33465735	-49,24046282	22S	670580,504	8168115,473	8168115,473	670580,504	787,938	-9,45	797,388
4701	M-235	TN	-16,33464809	-49,24044876	22S	670584,695	8168118,287	8168118,287	670584,695	788,267	-9,45	797,717
4702	M-235	ACOST	-16,3346433	-49,24044291	22S	670586,441	8168119,745	8168119,745	670586,441	788,135	-9,45	797,585
4703	M-235	BO	-16,33464026	-49,24043918	22S	670587,554	8168120,67	8168120,67	670587,554	788,108	-9,45	797,558
4704	M-235	BO	-16,33462783	-49,24041929	22S	670593,48	8168124,443	8168124,443	670593,48	788,01	-9,45	797,46
4705	M-235	ACOST	-16,33462379	-49,24041319	22S	670595,298	8168125,673	8168125,673	670595,298	787,892	-9,45	797,342

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-235		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
4706	M-235	PT	-16,33462071	-49,24040973	22S	670596,332	8168126,609	8168126,609	670596,332	787,467	-9,45	796,917
4707	M-235	TN	-16,33461393	-49,24039991	22S	670599,26	8168128,671	8168128,671	670599,26	786,402	-9,45	795,852
4708	M-235	TN	-16,33460424	-49,24038774	22S	670602,892	8168131,621	8168131,621	670602,892	786,394	-9,45	795,844
4709	M-235	MG	-16,33459693	-49,24037846	22S	670605,661	8168133,847	8168133,847	670605,661	786,877	-9,45	796,327
4710	M-235	MG	-16,33458427	-49,24036237	22S	670610,46	8168137,698	8168137,698	670610,46	786,985	-9,45	796,435
4712	M-235	PT	-16,33456393	-49,24037577	22S	670606,539	8168143,982	8168143,982	670606,539	787,293	-9,45	796,743
4713	M-235	PT	-16,3345307	-49,24047831	22S	670576,223	8168154,44	8168154,44	670576,223	787,82	-9,45	797,27
4714	M-235	PT	-16,33446094	-49,24045823	22S	670582,344	8168175,836	8168175,836	670582,344	787,826	-9,45	797,276
4716	M-235	MG	-16,33444192	-49,24047463	22S	670577,529	8168181,719	8168181,719	670577,529	787,786	-9,45	797,236
4717	M-235	MG	-16,33445382	-49,24049167	22S	670572,449	8168178,102	8168178,102	670572,449	787,637	-9,45	797,087
4718	M-235	TN	-16,33446715	-49,24051267	22S	670566,191	8168174,053	8168174,053	670566,191	787,402	-9,45	796,852
4719	M-235	ACOST	-16,33447734	-49,24052872	22S	670561,408	8168170,959	8168170,959	670561,408	788,953	-9,45	798,403
4720	M-235	BO	-16,33448048	-49,2405355	22S	670559,392	8168170,01	8168170,01	670559,392	789,046	-9,45	798,496
4721	M-235	BO	-16,33449423	-49,24055462	22S	670553,69	8168165,83	8168165,83	670553,69	789,222	-9,45	798,672
4722	M-235	ACOST	-16,33449773	-49,24055917	22S	670552,333	8168164,764	8168164,764	670552,333	789,241	-9,45	798,691
4723	M-235	TN	-16,3345059	-49,2405707	22S	670548,895	8168162,281	8168162,281	670548,895	788,811	-9,45	798,261
4724	M-235	PT	-16,33450906	-49,24057638	22S	670547,202	8168161,321	8168161,321	670547,202	788,812	-9,45	798,262
4725	M-235	ACOST	-16,33451876	-49,24058961	22S	670543,255	8168158,372	8168158,372	670543,255	789,449	-9,45	798,899
4726	M-235	BO	-16,33452426	-49,24059748	22S	670540,909	8168156,701	8168156,701	670540,909	789,642	-9,45	799,092
4727	M-235	BO	-16,33453855	-49,24061568	22S	670535,48	8168152,349	8168152,349	670535,48	789,667	-9,45	799,117
4728	M-235	ACOST	-16,33454335	-49,24061987	22S	670534,227	8168150,885	8168150,885	670534,227	789,591	-9,45	799,041
4729	M-235	ACE	-16,33455051	-49,24062874	22S	670531,58	8168148,704	8168148,704	670531,58	789,508	-9,45	798,958
4730	M-235	TN	-16,33455817	-49,24063824	22S	670528,745	8168146,372	8168146,372	670528,745	790,047	-9,45	799,497

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-235		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
4731	M-235	TN	-16,33456796	-49,24065247	22S	670524,5	8168143,396	8168143,396	670524,5	790,102	-9,45	799,552
4732	M-235	ACE	-16,33450426	-49,24066534	22S	670520,841	8168163,006	8168163,006	670520,841	789,855	-9,45	799,305
4733	M-235	ACE	-16,33449134	-49,24067579	22S	670517,774	8168167,003	8168167,003	670517,774	789,956	-9,45	799,406
4734	M-235	ACE	-16,33447685	-49,24069026	22S	670513,522	8168171,492	8168171,492	670513,522	790,099	-9,45	799,549
4735	M-235	ACE	-16,33446525	-49,24070317	22S	670509,722	8168175,087	8168175,087	670509,722	790,347	-9,45	799,797
4736	M-235	ACE	-16,33445492	-49,24071789	22S	670505,384	8168178,298	8168178,298	670505,384	790,602	-9,45	800,052
4737	M-235	ACE	-16,3344462	-49,24073596	22S	670500,048	8168181,021	8168181,021	670500,048	790,845	-9,45	800,295
4738	M-235	ACE	-16,33444257	-49,24075256	22S	670495,136	8168182,176	8168182,176	670495,136	791,022	-9,45	800,472
4739	M-235	ACE	-16,33444544	-49,24077652	22S	670488,026	8168181,348	8168181,348	670488,026	791,328	-9,45	800,778
4740	M-235	ACE	-16,33442172	-49,24080022	22S	670481,058	8168188,696	8168188,696	670481,058	791,477	-9,45	800,927
4741	M-235	ACE	-16,3344131	-49,24079453	22S	670482,765	8168191,332	8168191,332	670482,765	791,401	-9,45	800,851
4742	M-235	ACE	-16,33440313	-49,24079283	22S	670483,293	8168194,393	8168194,393	670483,293	791,357	-9,45	800,807
4743	M-235	ACE	-16,33439089	-49,24079609	22S	670482,358	8168198,164	8168198,164	670482,358	791,377	-9,45	800,827
4744	M-235	ACE	-16,3343801	-49,24080449	22S	670479,895	8168201,498	8168201,498	670479,895	791,632	-9,45	801,082
4745	M-235	ACE	-16,33434344	-49,2408344	22S	670471,117	8168212,839	8168212,839	670471,117	791,877	-9,45	801,327
4746	M-235	TN	-16,3343485	-49,24084667	22S	670467,466	8168211,311	8168211,311	670467,466	792,57	-9,45	802,02
4747	M-235	ACE	-16,33432241	-49,2408516	22S	670466,068	8168219,342	8168219,342	670466,068	792,111	-9,45	801,561
4779	M-235	ACE	-16,33431231	-49,24083699	22S	670470,424	8168222,414	8168222,414	670470,424	792,104	-9,45	801,554
4780	M-235	ACE	-16,33432422	-49,24082786	22S	670473,103	8168218,732	8168218,732	670473,103	791,981	-9,45	801,431
4781	M-235	ACE	-16,33433585	-49,24081816	22S	670475,95	8168215,132	8168215,132	670475,95	791,932	-9,45	801,382
4782	M-235	ACE	-16,33435185	-49,240805	22S	670479,812	8168210,184	8168210,184	670479,812	791,688	-9,45	801,138
4783	M-235	ACE	-16,33436373	-49,24079557	22S	670482,578	8168206,51	8168206,51	670482,578	791,536	-9,45	800,986
4784	M-235	ACE	-16,33437563	-49,24078592	22S	670485,409	8168202,829	8168202,829	670485,409	791,395	-9,45	800,845

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-235		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
4785	M-235	ACE	-16,33438775	-49,24077624	22S	670488,251	8168199,081	8168199,081	670488,251	791,32	-9,45	800,77
4786	M-235	ACE	-16,33439824	-49,2407674	22S	670490,844	8168195,835	8168195,835	670490,844	791,197	-9,45	800,647
4787	M-235	ACE	-16,33440765	-49,24075878	22S	670493,377	8168192,923	8168192,923	670493,377	791,122	-9,45	800,572
4788	M-235	ACE	-16,33441838	-49,24074684	22S	670496,892	8168189,598	8168189,598	670496,892	791,094	-9,45	800,544
4789	M-235	ACE	-16,33442495	-49,24073837	22S	670499,386	8168187,558	8168187,558	670499,386	790,925	-9,45	800,375
4790	M-235	ACE	-16,33442819	-49,24073389	22S	670500,705	8168186,551	8168186,551	670500,705	790,831	-9,45	800,281
4791	M-235	ACE	-16,33443436	-49,24072402	22S	670503,616	8168184,632	8168184,632	670503,616	790,803	-9,45	800,253
4792	M-235	ACE	-16,33443949	-49,24071555	22S	670506,114	8168183,035	8168183,035	670506,114	790,536	-9,45	799,986
4793	M-235	ACE	-16,33444158	-49,24070953	22S	670507,894	8168182,378	8168182,378	670507,894	790,541	-9,45	799,991
4794	M-235	ACE	-16,33444632	-49,24070183	22S	670510,165	8168180,902	8168180,902	670510,165	790,441	-9,45	799,891
4795	M-235	ACOST	-16,33444789	-49,24069888	22S	670511,035	8168180,412	8168180,412	670511,035	790,26	-9,45	799,71
4796	M-235	ACOST	-16,33444816	-49,24069855	22S	670511,134	8168180,328	8168180,328	670511,134	790,314	-9,45	799,764
4797	M-235	ACOST	-16,33443408	-49,24070973	22S	670507,855	8168184,683	8168184,683	670507,855	790,393	-9,45	799,843
4798	M-235	ACOST	-16,33440995	-49,24072946	22S	670502,065	8168192,147	8168192,147	670502,065	790,602	-9,45	800,052
4799	M-235	ACOST	-16,33438255	-49,24075119	22S	670495,689	8168200,622	8168200,622	670495,689	791,028	-9,45	800,478
4800	M-235	ACOST	-16,33435929	-49,24076925	22S	670490,392	8168207,813	8168207,813	670490,392	791,272	-9,45	800,722
4801	M-235	BO	-16,33442299	-49,24070774	22S	670508,472	8168188,088	8168188,088	670508,472	790,606	-9,45	800,056
4802	M-235	BO	-16,3344094	-49,24068861	22S	670514,176	8168192,22	8168192,22	670514,176	790,613	-9,45	800,063
4803	M-235	ACOST	-16,33440336	-49,24068162	22S	670516,262	8168194,06	8168194,06	670516,262	790,415	-9,45	799,865
4804	M-235	TN	-16,3343979	-49,24067568	22S	670518,035	8168195,725	8168195,725	670518,035	790,25	-9,45	799,7
4805	M-235	PT	-16,33439275	-49,24066897	22S	670520,039	8168197,292	8168197,292	670520,039	790,107	-9,45	799,557
4806	M-235	ACOST	-16,33438057	-49,24065292	22S	670524,825	8168200,999	8168200,999	670524,825	790,796	-9,45	800,246
4807	M-235	BO	-16,33437732	-49,24064675	22S	670526,663	8168201,982	8168201,982	670526,663	790,722	-9,45	800,172

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-235		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
4808	M-235	BO	-16,33436362	-49,24062857	22S	670532,085	8168206,149	8168206,149	670532,085	790,579	-9,45	800,029
4809	M-235	ACOST	-16,33435894	-49,24062269	22S	670533,84	8168207,576	8168207,576	670533,84	790,538	-9,45	799,988
4810	M-235	TN	-16,33434773	-49,24060846	22S	670538,086	8168210,988	8168210,988	670538,086	788,436	-9,45	797,886
4811	M-235	MG	-16,33433085	-49,24058906	22S	670543,878	8168216,129	8168216,129	670543,878	788,262	-9,45	797,712
4812	M-235	MG	-16,3343181	-49,24057295	22S	670548,686	8168220,01	8168220,01	670548,686	788,401	-9,45	797,851
4814	M-235	PT	-16,33425287	-49,24062098	22S	670534,608	8168240,175	8168240,175	670534,608	789,18	-9,45	798,63
4815	M-235	PT	-16,33428129	-49,24067667	22S	670518,028	8168231,571	8168231,571	670518,028	790,983	-9,45	800,433
4819	M-235	MG	-16,33420464	-49,24066302	22S	670522,263	8168255,098	8168255,098	670522,263	789,427	-9,45	798,877
4820	M-235	MG	-16,33421677	-49,24067914	22S	670517,454	8168251,407	8168251,407	670517,454	789,308	-9,45	798,758
4821	M-235	TN	-16,33423013	-49,24069836	22S	670511,724	8168247,346	8168247,346	670511,724	789,312	-9,45	798,762
4822	M-235	ACOST	-16,33424301	-49,24071435	22S	670506,952	8168243,427	8168243,427	670506,952	792,153	-9,45	801,603
4823	M-235	BO	-16,33424749	-49,24072045	22S	670505,131	8168242,062	8168242,062	670505,131	792,212	-9,45	801,662
4824	M-235	BO	-16,33426081	-49,24073961	22S	670499,42	8168238,014	8168238,014	670499,42	792,331	-9,45	801,781
4825	M-235	ACOST	-16,33426405	-49,24074495	22S	670497,829	8168237,029	8168237,029	670497,829	792,366	-9,45	801,816
4826	M-235	TN	-16,33426665	-49,24074854	22S	670496,758	8168236,241	8168236,241	670496,758	792,165	-9,45	801,615
4827	M-235	TN	-16,33427235	-49,24075586	22S	670494,573	8168234,504	8168234,504	670494,573	791,144	-9,45	800,594
4828	M-235	PT	-16,33427664	-49,2407605	22S	670493,187	8168233,198	8168233,198	670493,187	791,291	-9,45	800,741
4831	M-235	BO	-16,33430644	-49,24079987	22S	670481,444	8168224,131	8168224,131	670481,444	791,734	-9,45	801,184
4832	M-235	ACOST	-16,33431213	-49,24080671	22S	670479,401	8168222,398	8168222,398	670479,401	791,537	-9,45	800,987
17522	M-235	TN	-16,33490261	-49,24037723	22S	670605,279	8168039,884	8168039,884	670605,279	788,084	-9,45	797,534
17525	M-235	TN	-16,33489749	-49,24037078	22S	670607,203	8168041,441	8168041,441	670607,203	787,962	-9,45	797,412
17536	M-235	BO	-16,33487771	-49,24034638	22S	670614,484	8168047,463	8168047,463	670614,484	788,572	-9,45	798,022
17543	M-235	BO	-16,33486455	-49,24032729	22S	670620,176	8168051,463	8168051,463	670620,176	788,554	-9,45	798,004

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-235		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
17544	M-235	TN	-16,33485611	-49,24031814	22S	670622,909	8168054,036	8168054,036	670622,909	788,337	-9,45	797,787
17555	M-235	TN	-16,33483773	-49,240294	22S	670630,11	8168059,629	8168059,629	670630,11	788,057	-9,45	797,507
17558	M-235	BO	-16,33483243	-49,24028662	22S	670632,311	8168061,24	8168061,24	670632,311	788,04	-9,45	797,49
17561	M-235	BO	-16,33481889	-49,24026812	22S	670637,827	8168065,359	8168065,359	670637,827	787,883	-9,45	797,333
17564	M-235	TN	-16,33481242	-49,24025944	22S	670640,417	8168067,329	8168067,329	670640,417	787,706	-9,45	797,156
17567	M-235	TN	-16,33480732	-49,24025304	22S	670642,328	8168068,881	8168068,881	670642,328	786,813	-9,45	796,263
17568	M-235	TN	-16,33480255	-49,24024682	22S	670644,181	8168070,333	8168070,333	670644,181	786,674	-9,45	796,124
17577	M-235	MAG_BO	-16,33478777	-49,24022737	22S	670649,985	8168074,828	8168074,828	670649,985	786,441	-9,45	795,891
17580	M-235	MAG_BO	-16,33477445	-49,24021147	22S	670654,731	8168078,886	8168078,886	670654,731	786,536	-9,45	795,986
17586	M-235	MAG_BO	-16,33473074	-49,24024616	22S	670644,553	8168092,404	8168092,404	670644,553	786,572	-9,45	796,022
17588	M-235	MAG_BO	-16,33474423	-49,24026182	22S	670639,877	8168088,293	8168088,293	670639,877	786,472	-9,45	795,922
17591	M-235	TN	-16,3347467	-49,24026471	22S	670639,014	8168087,54	8168087,54	670639,014	786,43	-9,45	795,88
17594	M-235	TN	-16,33475135	-49,24027007	22S	670637,415	8168086,126	8168086,126	670637,415	785,768	-9,45	795,218
17597	M-235	TN	-16,33476268	-49,24028242	22S	670633,726	8168082,67	8168082,67	670633,726	785,934	-9,45	795,384
17599	M-235	TN	-16,33477144	-49,24029233	22S	670630,768	8168080,001	8168080,001	670630,768	787,486	-9,45	796,936
17605	M-235	BO	-16,33477802	-49,2403003	22S	670628,388	8168077,999	8168077,999	670628,388	787,852	-9,45	797,302
17607	M-235	BO	-16,33479245	-49,24031822	22S	670623,04	8168073,606	8168073,606	670623,04	787,972	-9,45	797,422
17609	M-235	TN	-16,33479646	-49,2403248	22S	670621,079	8168072,389	8168072,389	670621,079	787,969	-9,45	797,419
17611	M-235	TN	-16,33480113	-49,24033032	22S	670619,431	8168070,964	8168070,964	670619,431	787,214	-9,45	796,664
17613	M-235	TN	-16,33481191	-49,24034409	22S	670615,323	8168067,685	8168067,685	670615,323	787,273	-9,45	796,723
17615	M-235	TN	-16,33481646	-49,24034893	22S	670613,877	8168066,296	8168066,296	670613,877	788,472	-9,45	797,922
17617	M-235	BO	-16,33482416	-49,2403579	22S	670611,201	8168063,951	8168063,951	670611,201	788,504	-9,45	797,954
17619	M-235	BO	-16,33483924	-49,24037694	22S	670605,519	8168059,362	8168059,362	670605,519	788,554	-9,45	798,004

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-235		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
17621	M-235	TN	-16,33484833	-49,24038814	22S	670602,176	8168056,592	8168056,592	670602,176	788,246	-9,45	797,696
17623	M-235	TN	-16,33485479	-49,24039452	22S	670600,269	8168054,624	8168054,624	670600,269	788,534	-9,45	797,984
17635	M-235	CERCA	-16,33482174	-49,240455	22S	670582,422	8168064,925	8168064,925	670582,422	788,164	-9,45	797,614
17638	M-235	TN	-16,33481814	-49,24044901	22S	670584,204	8168066,017	8168066,017	670584,204	788,696	-9,45	798,146
17641	M-235	TN	-16,3348035	-49,24043451	22S	670588,539	8168070,483	8168070,483	670588,539	788,538	-9,45	797,988
17643	M-235	TN	-16,33480034	-49,24043231	22S	670589,198	8168071,45	8168071,45	670589,198	788,463	-9,45	797,913
17645	M-235	BO	-16,33478841	-49,24041769	22S	670593,562	8168075,081	8168075,081	670593,562	788,574	-9,45	798,024
17647	M-235	BO	-16,33477409	-49,24039853	22S	670599,279	8168079,439	8168079,439	670599,279	788,593	-9,45	798,043
17650	M-235	TN	-16,33476486	-49,2403881	22S	670602,391	8168082,251	8168082,251	670602,391	788,501	-9,45	797,951
17653	M-235	TN	-16,33476073	-49,24038337	22S	670603,804	8168083,508	8168083,508	670603,804	787,498	-9,45	796,948
17660	M-235	TN	-16,33474987	-49,24037129	22S	670607,412	8168086,818	8168086,818	670607,412	787,311	-9,45	796,761
17663	M-235	TN	-16,334746	-49,2403665	22S	670608,843	8168087,995	8168087,995	670608,843	787,831	-9,45	797,281
17665	M-235	BO	-16,33474074	-49,2403614	22S	670610,367	8168089,602	8168089,602	670610,367	787,823	-9,45	797,273
17668	M-235	BO	-16,33472485	-49,24034284	22S	670615,908	8168094,442	8168094,442	670615,908	787,728	-9,45	797,178
17671	M-235	TN	-16,33471918	-49,24033553	22S	670618,087	8168096,168	8168096,168	670618,087	787,467	-9,45	796,917
17672	M-235	TN	-16,3347107	-49,24032542	22S	670621,105	8168098,75	8168098,75	670621,105	786,068	-9,45	795,518
17683	M-235	MAG_BO	-16,33469213	-49,24030287	22S	670627,835	8168104,406	8168104,406	670627,835	786,555	-9,45	796,005
17686	M-235	MAG_BO	-16,33467921	-49,24028672	22S	670632,656	8168108,338	8168108,338	670632,656	786,632	-9,45	796,082
17699	M-235	MAG_BO	-16,3348411	-49,24015871	22S	670670,209	8168058,274	8168058,274	670670,209	786,512	-9,45	795,962
17702	M-235	MAG_BO	-16,33485452	-49,24017421	22S	670665,579	8168054,187	8168054,187	670665,579	786,408	-9,45	795,858
17705	M-235	TN	-16,33485855	-49,24017834	22S	670664,347	8168052,956	8168052,956	670664,347	786,361	-9,45	795,811
17708	M-235	TN	-16,33487452	-49,24019701	22S	670658,772	8168048,091	8168048,091	670658,772	786,629	-9,45	796,079
17711	M-235	TN	-16,33488119	-49,24020531	22S	670656,296	8168046,063	8168046,063	670656,296	787,844	-9,45	797,294

LEVANTAMENTO CADASTRAL PLANILTIMÉTRICO - SRG SIRGAS 2000												
PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-235		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
17715	M-235	BO	-16,33490135	-49,24023218	22S	670648,28	8168039,929	8168039,929	670648,28	788,083	-9,45	797,533
17720	M-235	TN	-16,33490581	-49,24023905	22S	670646,234	8168038,572	8168038,572	670646,234	788,058	-9,45	797,508
17727	M-235	TN	-16,33491198	-49,24024559	22S	670644,278	8168036,691	8168036,691	670644,278	786,95	-9,45	796,4
17729	M-235	TN	-16,33492165	-49,24025564	22S	670641,277	8168033,745	8168033,745	670641,277	787,047	-9,45	796,497
17731	M-235	TN	-16,33492833	-49,24026089	22S	670639,703	8168031,702	8168031,702	670639,703	788,295	-9,45	797,745
17733	M-235	BO	-16,33493502	-49,2402708	22S	670636,75	8168029,669	8168029,669	670636,75	788,515	-9,45	797,965
17735	M-235	BO	-16,33494892	-49,2402894	22S	670631,201	8168025,441	8168025,441	670631,201	788,538	-9,45	797,988
17737	M-235	TN	-16,33495619	-49,24029904	22S	670628,325	8168023,23	8168023,23	670628,325	788,453	-9,45	797,903
17738	M-235	TN	-16,33496803	-49,24031264	22S	670624,264	8168019,623	8168019,623	670624,264	788,164	-9,45	797,614
17740	M-235	CERCA	-16,33498127	-49,24032735	22S	670619,871	8168015,586	8168015,586	670619,871	787,825	-9,45	797,275
17742	M-235	CERCA	-16,33491346	-49,24038337	22S	670603,432	8168036,562	8168036,562	670603,432	787,619	-9,45	797,069
17744	M-235	CERCA	-16,33490701	-49,24038823	22S	670602,006	8168038,557	8168038,557	670602,006	787,82	-9,45	797,27
17751	M-235	CERCA	-16,33503589	-49,24028376	22S	670632,662	8167998,696	8167998,696	670632,662	787,85	-9,45	797,3
17753	M-235	TN	-16,33502711	-49,24027207	22S	670636,147	8168001,366	8168001,366	670636,147	788,163	-9,45	797,613
17755	M-235	TN	-16,33501366	-49,24025629	22S	670640,857	8168005,462	8168005,462	670640,857	788,532	-9,45	797,982
17757	M-235	TN	-16,33501177	-49,24025301	22S	670641,836	8168006,037	8168006,037	670641,836	788,39	-9,45	797,84
17759	M-235	BO	-16,33500571	-49,24024504	22S	670644,212	8168007,881	8168007,881	670644,212	788,466	-9,45	797,916
17762	M-235	BO	-16,33499237	-49,24022553	22S	670650,03	8168011,934	8168011,934	670650,03	788,464	-9,45	797,914
17765	M-235	TN	-16,33498423	-49,24021636	22S	670652,768	8168014,415	8168014,415	670652,768	788,515	-9,45	797,965
17768	M-235	TN	-16,33497937	-49,24020836	22S	670655,151	8168015,891	8168015,891	670655,151	787,097	-9,45	796,547
17771	M-235	TN	-16,33497113	-49,24019728	22S	670658,456	8168018,396	8168018,396	670658,456	787,063	-9,45	796,513
17772	M-235	TN	-16,33496642	-49,24019157	22S	670660,16	8168019,832	8168019,832	670660,16	788,098	-9,45	797,548
17781	M-235	BO	-16,33495996	-49,24018543	22S	670661,996	8168021,803	8168021,803	670661,996	788,117	-9,45	797,567

PONTOS			COORDENAS GEODÉSICAS		COORDENADAS UTM			PLT - MARCO REF: M-235		ALTIMETRIA		
PONTO	MARCO BASE RTK	DESCRIÇÃO	LATITUDE	LONGITUDE	FUSO	E	N	N	E	HGEO	Ondulação Geoidal	HNOR
17784	M-235	BO	-16,33494679	-49,24016672	22S	670667,576	8168025,805	8168025,805	670667,576	787,994	-9,45	797,444
17787	M-235	TN	-16,33494103	-49,24015902	22S	670669,872	8168027,56	8168027,56	670669,872	787,927	-9,45	797,377
17790	M-235	TN	-16,33493584	-49,24015148	22S	670672,12	8168029,135	8168029,135	670672,12	786,642	-9,45	796,092
17793	M-235	TN	-16,33492428	-49,24013652	22S	670676,583	8168032,655	8168032,655	670676,583	786,334	-9,45	795,784
17796	M-235	TN	-16,33491708	-49,24012847	22S	670678,988	8168034,847	8168034,847	670678,988	786,437	-9,45	795,887
17797	M-235	MAG_BO	-16,33491556	-49,24012573	22S	670679,802	8168035,309	8168035,309	670679,802	786,405	-9,45	795,855
17807	M-235	POSTE	-16,33489325	-49,24011361	22S	670683,45	8168042,139	8168042,139	670683,45	786,648	-9,45	796,098
17812	M-235	POSTE	-16,33483093	-49,2401948	22S	670659,535	8168061,486	8168061,486	670659,535	786,53	-9,45	795,98
17814	M-235	POSTE	-16,33478137	-49,24020519	22S	670656,574	8168076,744	8168076,744	670656,574	786,596	-9,45	796,046
17817	M-235	POSTE	-16,3347074	-49,24029219	22S	670630,965	8168099,687	8168099,687	670630,965	786,617	-9,45	796,067
17826	M-235	POSTE	-16,3349738	-49,2402066	22S	670655,685	8168017,598	8168017,598	670655,685	787,006	-9,45	796,456

7 DESCRIÇÃO DOS EQUIPAMENTOS UTILIZADOS NOS ESTUDOS TOPOGRÁFICOS

Especificações Técnicas SP60

186

Características GNSS

- 240 canais GNSS
 - GPS L1C/A, L1P(Y), L2P(Y), L2C
 - GLONASS L1C/A, L2C/A + L3
 - BeiDou B1 (base 2), B2
 - Galileo E1, E5b
 - QZSS L1C/A, L2C, L1SAIF
 - SBAS L1C/A
 - Banda L
- Tecnologia patenteada Z-Blade para o desempenho ideal do GNSS
 - Plena utilização dos sinais de todos os 6 sistemas GNSS (GPS, GLONASS, BeiDou, Galileo, QZSS e SBAS)
 - Algoritmo cêntrico GNSS aperfeiçoado: monitoramento de sinais GNSS completamente independente e processamento de dados otimizado incluindo a solução somente GPS, somente GLONASS ou somente BeiDou (RTK autônomo a completo)
 - Mecanismo de busca rápido para aquisição e reacquirição rápida de sinais GNSS
- SBAS patenteado com intervalos de uso do código e observações da operadora SBAS e órbitas no processamento de RTK
- Correlator "Strobe" patenteado para redução de multi-caminhos GNSS
- Até 10 Hz de dados brutos em tempo real (código e operadora e saída de posição)
- Formatos de suporte de dados: ATOM, CMR, CMR+, RTCM 2.1, 2.3, 3.0, 3.1 e 3.2 (incluindo MSM), CMRc and sCMRc (travar somente)
- Saída de mensagens NMEA 0183

Precisão em tempo real (RMS) ⁽¹⁾⁽²⁾

SBAS (WAAS/EGNOS/MSAS/GAGAN)

- Horizontal: < 50 cm
- Vertical: < 85 cm

Posição de DGPS em tempo real

- Horizontal: 25 cm + 1 ppm
- Vertical: 50 cm + 1 ppm

Posição cinemática em tempo real (RTK)

- Horizontal: 8 mm + 1 ppm
- Vertical: 15 mm + 1 ppm

CenterPoint RTX ⁽³⁾⁽⁴⁾

- Horizontal 4 cm
- Vertical 9 cm
- Tempo de convergência: 30 minutos ou menos⁽⁵⁾

Desempenho em tempo real

- Inicialização Instant RTK[®]
 - Tipicamente 2 seg. para linhas de base < 20 km
 - Até 99,9% de confiabilidade
- Faixa de inicialização RTK: 40 km

Precisão de pós-processamento (RMS) ⁽¹⁾⁽²⁾

Modo estático e estático rápido

- Horizontal: 3 mm + 0,5 ppm
- Vertical: 5 mm + 0,5 ppm

Modo estático de alta precisão ⁽⁶⁾

- Horizontal: 3 mm + 0,1 ppm
- Vertical: 3,5 mm + 0,4 ppm

Recursos de registros de dados

Intervalo de gravação

- 0,1 - 999 segundos

Características físicas

Tamanho

- 21 x 21 x 7 cm

Peso

- 930 g

Interface do usuário

- Cinco LED para Alimentação, Monitoramento, Bluetooth, Gravação e operações de Rádio

Interface de E/S

- Link serial RS232
- USB 2.0/UART e USB OTG
- Bluetooth 2.1 + EDR. Longo alcance: Classe 1 (19 dBm)

Memória

- Memória interna NAND Flash de 256 MB
- Durante um mês de 15 segundos dados brutos GNSS de 14 satélites

Funcionamento

- RTK de recepção e base
- RTK de recepção de rede: VRS, FKP, MAC
- NTRIP, IP direto
- Pós-processamento
- CenterPoint RTX (IP e satélite)

Características ambientais

- Temperatura operacional: -40 °C a +65 °C ⁽⁶⁾
- Temperatura de armazenamento: -40 °C a +85 °C ⁽⁶⁾
- Umidade: 100% de condensação
- IP67 à prova de água, fechado hermeticamente contra areia e poeira
- Queda: quedas de postes de 2 m sobre concreto
- Choque: MIL-STD-810 (fig 516.5-10) (01/2000)
- Vibração: MIL-STD-810F (fig 514.5C-17) (01/2000)

Características de alimentação

- Bateria Li-Ion, 7,4 V, 2600 mAh
- Vida útil da bateria: 10 hrs, (GNSS ligado, UHF Rx em) 8 hrs
- Alimentação D-C externa: 9-28 V

Componentes padrão do sistema

- Receptor SP60
- Bateria Li-Ion
- Carregador de baterias duplo, kit de fonte de alimentação e cabo de alimentação internacional
- Trena (3,6 m)
- Extensão de 7 cm para poste
- Cabo USB - mini USB
- Garantia de 2 anos

Componentes opcionais do sistema

- Kit UHF SP60 (410-470 MHz 2W TRx)
- Kit de alimentação de campo SP60
- Kit de alimentação de escritório SP60
- Coletores de dados
 - Ranger 3
 - T41
 - MobileMapper 20
 - ProMark 120
- Software de campo
 - Survey Pro
 - FAST Survey
 - ProMark Field

(1) As especificações de precisão e TTRF podem ser afetadas pelas condições atmosféricas, multicaminho de sinal, qualidade e disponibilidade de correções e geometria satelital.

(2) Os valores de desempenho assumem pelo menos cinco satélites, segundo os procedimentos recomendados no manual do produto. Áreas de multicaminho elevado, valores PDP elevados e períodos com condições atmosféricas severas podem degradar o desempenho.

(3) Uso de linhas de base longas, ocupações longas, elementos precários.

(4) Em temperaturas muito altas, o módulo de UHF não deve ser usado no modo com transmissor UHF irradiando a 2W de potência, o limite de temperatura em operação é de + 55°C (+131°F).

(5) Sem baterias. As baterias podem ser armazenadas em locais com temperaturas até 470 °C.

(6) O tempo de convergência do receptor varia em função da integridade da constelação GNSS, do nível de multicaminho e da proximidade de obstáculos como árvores grandes e edifícios.





Spectra Precision Authorized Dealer

Consulte www.spectraprecision.com para obter as informações mais recentes sobre produtos e para localizar o distribuidor mais próximo de sua região.

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GNSS Performance ⁽¹⁾		Communication	
Channels	624 channels Powered by CHCNAV iStar GNSS tracking technology	Network modem	Integrated 4G modem LTE (FDD): B1,B2,B3,B4,B5,B7,B8,B20 DC-HSPA+/HSPA+/HSPA/UMTS: B1, B2, B5, B8 EDGE/GPRS/GSM 850/900/1800/1900 MHz
GPS	L1 C/A, L2C, L2P, L5	Wi-Fi	802.11 b/g/n, access point mode
GLONASS	L1, L2	Bluetooth®	V 4.1
Galileo	E1, E5a, E5b	Ports	1 x 7-pin LEMO port (external power, RS-232) 1 x USB Type-C port (data download, firmware update) 1 x UHF antenna port (TNC female)
BeiDou	B1, B2, B3		
SBAS	L1		
QZSS	L1, L2, L5	UHF radio	Standard Internal Rx/Tx: 410 - 470 MHz Transmit Power: 0.5 W to 2 W Protocol: CHC, Transparent, TT450, 3AS Link rate: 9,600 bps to 19,200 bps Range: Typical 3 km to 5 km
GNSS Accuracies ⁽²⁾		Data formats	RTCM 2.x, RTCM 3.x, CMR input / output HCN, HRC, RINEX 2.11, 3.02 NMEA0183 output NTRIP Client, NTRIP Caster
Real time kinematics (RTK)	Horizontal: 8 mm + 1 ppm RMS Vertical: 15 mm + 1 ppm RMS Initialization time: <10 s Initialization reliability: >99.9%	Data storage	32 GB internal memory, Support for removable external USB/Micro SD to USB Type-C card reader for data storage and download
Post-processing kinematics (PPK)	Horizontal: 2.5 mm + 1 ppm RMS Vertical: 5 mm + 1 ppm RMS		
Post-processing static	Horizontal: 2.5 mm + 0.5 ppm RMS Vertical: 5 mm + 0.5 ppm RMS	Electrical	
Code differential	Horizontal: 0.25 m RMS	Power consumption	5 W (depending on user settings)
Autonomous	Horizontal: 1.5 m RMS Vertical: 3 m RMS	Li-ion battery capacity	2 x 3,400 mAh, 7.4 V
Positioning rate	Up to 10 Hz	Operating time on internal battery ⁽⁴⁾	UHF receive/transmit (0.5 W): 6 h to 9 h Cellular receive only: Up to 9 h Static: Up to 10 h
Time to first fix ⁽³⁾	Cold start: < 45 s Hot start: < 10 s Signal re-acquisition: < 1 s	External power input	9 V DC to 28 V DC
RTK tilt -compensated	Additional horizontal pole-tilt uncertainty typically less than 10 mm + 0.7 mm/° tilt	 <small>*All specifications are subject to change without notice. (1) Compliant, but subject to availability of BDS ICD and Galileo commercial service definition. BDS B3 and Galileo E6 will be provided through future firmware upgrade. (2) Accuracy and reliability are determined under open sky, free of multipaths, optimal GNSS geometry and atmospheric condition. Performances assume minimum of 5 satellites, follow up of recommended general GPS practices. (3) Typical observed values. (4) Battery life is subject to operating temperature.</small>	
Hardware			
Size (L x W x H)	159 mm x 150 mm x 110 mm (6.3 in x 5.9 in x 4.3 in)		
Weight	1.26 kg (2.77 lb)		
Environment	Operating: -40°C to +65°C (-40°F to +149°F) Storage: -40°C to +85°C (-40°F to +185°F)		
Humidity	100% condensation		
Ingress protection	IP67 waterproof and dustproof, protected from temporary immersion to depth of 1 m		
Shock	Survive a 2-meter pole drop	<p>© 2023 Topomap Positioning System Ltd. All rights reserved. The TPS and TPS logo are trademarks of Topomap Positioning System Limited. All other trademarks are the property of their respective owners. Revision May 2023</p>	
Tilt sensor	Calibration-free IMU for pole-tilt compensation. Immune to magnetic disturbances. E-Bubble leveling		
Front panel	4 LED indicates 1.46" OLED Display		
Certification			
FCC Part 15 (class B Device), FCC Part 22, 24, 90; CE Mark; NGS Antenna Calibration; MIL STD 810G, Method 514.7			

8 RELATÓRIO DE PROCESSAMENTO DOS MARCOS DE CONTROLE**FORMULÁRIO**

Preparado por: Centro de Controle Eng. Kátia Duarte Pereira - RBMC

Data: 25/06/1997

Atualização: 25/04/2024 - Troca de equipamento

IDENTIFICAÇÃO DA ESTAÇÃO GPS

Nome da Estação: BRASÍLIA

Ident. da Estação: BRAZ

Código SAT: 91200

Código Internacional: 41606M001

Informações Adicionais: Esta estação pertence à Rede de Densificação do IGS e à Rede de referência do SIRGAS.

INFORMAÇÃO SOBRE A LOCALIZAÇÃO

Cidade: Brasília Estado: Distrito Federal

Informações Adicionais: Prisma reto de bases quadradas, medindo 0,14 x 0,14 m, elevando-se acima da viga superior do Bloco G de 1,55 m. No centro de sua base superior existe um pino cilíndrico e, vazado, de 2,5 cm de diâmetro e eleva-se desta de 3 cm, onde foram referenciadas as medições. No canto nordeste do Bloco G das instalações do IBGE, na Reserva Ecológica do Roncador (RECOR) em Brasília-DF.

COORDENADAS OFICIAIS

SIRGAS2000 (Época 2000.4)

Coordenadas Geodésicas			
Latitude:	- 15° 56' 50,91123"	Sigma:	0,001 m
Longitude:	- 47° 52' 40,32834"	Sigma:	0,001 m
Alt. Elip.:	1.106,020 m	Sigma:	0,001 m
Coordenadas Cartesianas			
X:	4.115.014,0848 m	Sigma:	0,001 m
Y:	-4.550.641,5491 m	Sigma:	0,001 m

Z:	-1.741.444,0190 m	Sigma:	0,001 m
Coordenadas Planas (UTM)			
UTM (N):	8.234.747,340 m		
UTM (E):	191.901,219 m		
MC:	-45		

INFORMAÇÕES DO EQUIPAMENTO GNSS

RECEPTOR

1.1 Tipo do Receptor - LEICA GR50
Número de Série - 2091265
Versão do Firmware - 4.80/7.900 (Principal)
Data de Instalação - 25/04/2024 às 12:36 UTC

1.2 Tipo do Receptor - TRIMBLE NETR9
Número de Série - 5607R50135
Versão do Firmware - 5.60 (Principal)
Atualização do Firmware - 25/05/2023 às 20:40 UTC
Data de Remoção - 25/04/2024 às 11:55 UTC

1.3 Tipo do Receptor - TRIMBLE NETR9
Número de Série - 5607R50135
Versão do Firmware - 5.56 (Principal)
Atualização do Firmware - 22/12/2022 às 10:42 UTC

1.4 Tipo do Receptor - TRIMBLE NETR9
Número de Série - 5607R50135
Versão do Firmware - 5.52 (Principal)
Atualização do Firmware - 20/10/2021 às 18:56 UTC

1.5 Tipo do Receptor - TRIMBLE NETR9
Número de Série - 5607R50135
Versão do Firmware - 5.50 (Principal)
Atualização do Firmware - 06/05/2021 às 16:04 UTC

1.6 Tipo do Receptor - TRIMBLE NETR9
Número de Série - 5607R50135
Versão do Firmware - 5.48 (Principal)
Atualização do Firmware - 13/10/2020 às 17:24 UTC

1.7 Tipo do Receptor - TRIMBLE NETR9
Número de Série - 5607R50135
Versão do Firmware - 5.45 (Principal)
Atualização do Firmware - 18/05/2020 às 20:00 UTC

1.8 Tipo do Receptor - TRIMBLE NETR9
Número de Série - 5607R50135
Versão do Firmware - 5.44 (Principal)
Atualização do Firmware - 02/01/2020 às 13:20 UTC

1.9 Tipo do Receptor - TRIMBLE NETR9
Número de Série - 5607R50135
Versão do Firmware - 5.43 (Principal)
Atualização do Firmware - 04/12/2019 às 14:33 UTC

1.10 Tipo do Receptor - TRIMBLE NETR9
Número de Série - 5607R50135
Versão do Firmware - 5.37 (Principal)
Atualização do Firmware - 19/10/2018 às 17:02 UTC

1.11 Tipo do Receptor - TRIMBLE NETR9
Número de Série - 5607R50135
Versão do Firmware - 5.33 (Principal)
Atualização do Firmware - 15/03/2018 às 18:20 UTC

1.12 Tipo do Receptor - TRIMBLE NETR9
Número de Série - 5607R50135
Versão do Firmware - 5.30 (Principal)

Atualização do Firmware - 06/09/2017 às 13:45 UTC

1.13 Tipo do Receptor - TRIMBLE NETR9

Número de Série - 5607R50135

Versão do Firmware - 5.22 (Principal)

Atualização do Firmware - 22/03/2017 às 20:50 UTC

1.14 Tipo do Receptor - TRIMBLE NETR9

Número de Série - 5607R50135

Versão do Firmware - 5.20 (Principal)

Atualização do Firmware - 04/01/2017 às 17:48 UTC

1.15 Tipo do Receptor - TRIMBLE NETR9

Número de Série - 5607R50135

Versão do Firmware - 5.15 (Principal)

Atualização do Firmware - 21/12/2016 às 15:50 UTC

1.16 Tipo do Receptor - TRIMBLE NETR9

Número de Série - 5607R50135

Versão do Firmware - 5.14 (Principal)

Data de Instalação - 28/09/2016 às 13:32 UTC

1.17 Tipo do Receptor - TRIMBLE NETRS

Número de Série - 4427235656

Versão do Firmware - 1.3-2 (Principal)

Data de Instalação - 03/02/2016 às 13:42 UTC

Data de Remoção - 28/09/2016 às 12:44 UTC

1.18 Tipo do Receptor - LEICA GR25

Número de Série - 1830343

Versão do Firmware - 3.11 (Principal)

Atualização do Firmware - 07/08/2015 às 17:40 UTC

Data de Remoção - 03/02/2016 às 12:10 UTC

1.19 Tipo do Receptor - LEICA GR25
Número de Série - 1830343
Versão do Firmware - 6.214 (Motor de Medição)
Versão do Firmware - 3.03 (Principal)
Data de Instalação - 15/04/2015 às 16:29 UTC

1.20 Tipo do Receptor - TRIMBLE NETRS
Número de Série - 4427235656
Versão do Firmware - 1.3-2 (Principal)
Data de Instalação - 26/02/2015 às 17:02 UTC
Data de Remoção - 15/04/2015 às 15:54 UTC

1.21 Tipo do Receptor - TRIMBLE NETR8
Número de Série - 4913K34710
Versão do Firmware - 4.85 (Principal)
Data de Instalação - 21/01/2015 às 11:39 UTC
Data de Remoção - 26/02/2015 às 16:50 UTC

1.22 Tipo do Receptor - TRIMBLE NETRS
Número de Série - 4644124505
Versão do Firmware - 1.2-0 (Principal)
Data de Instalação - 23/12/2014 às 19:00 UTC
Data de Remoção - 21/01/2015 às 11:01 UTC

1.23 Tipo do Receptor - TRIMBLE NETR8
Número de Série - 4906K34391
Versão do Firmware - 4.85 (Principal)
Data de Instalação - 17/09/2014 às 13:34 UTC
Data de Remoção - 23/12/2014 às 17:03 UTC

1.24 Tipo do Receptor - TRIMBLE NETR8
Número de Série - 4923K35538

Versão do Firmware - 4.85 (Principal)
Atualização do Firmware - 03/07/2014 às 14:00 UTC
Data de Remoção - 17/09/2014 às 13:00 UTC

1.25 Tipo do Receptor - TRIMBLE NETR8
Número de Série - 4923K35538
Versão do Firmware - 4.70 (Principal)
Data de Instalação - 25/04/2013 às 20:32 UTC

1.26 Tipo do Receptor - TRIMBLE NETRS
Número de Série - 4644124503
Versão do Firmware - 1.2-0 (Principal)
Data de Instalação - 27/11/2012 às 16:51 UTC
Data de Remoção - 25/04/2013 às 13:07 UTC

1.27 Tipo do Receptor - TRIMBLE NETR8
Número de Série - 4923K35520
Versão do Firmware - 4.41 (Principal)
Atualização do Firmware - 22/11/2012 às 10:30 UTC
Data de Remoção - 27/11/2012 às 16:30 UTC

1.28 Tipo do Receptor - TRIMBLE NETR8
Número de Série - 4923K35520
Versão do Firmware - 4.17 (Principal)
Data de Instalação - 18/09/2012 às 13:55 UTC

1.29 Tipo do Receptor - TRIMBLE NETRS
Número de Série - 4644124503
Versão do Firmware - 1.2-0 (Principal)
Atualização do Firmware - 06/03/2008 às 00:00 UTC
Data de Remoção - 18/09/2012 às 12:03 UTC

1.30 Tipo do Receptor - TRIMBLE NETRS

Número de Série - 4644124503
Versão do Firmware - 1.1-5 (Principal)
Data de Instalação - 13/03/2007 às 00:00 UTC

1.31 Tipo do Receptor - TRIMBLE 4000SSI
Número de Série - 16594
Versão do Firmware - 7.29 (Principal)
Atualização do Firmware - 21/08/1998 às 00:00 UTC
Data de Remoção - 12/03/2007 às 00:00 UTC

1.32 Tipo do Receptor - TRIMBLE 4000SSI
Número de Série - 16594
Versão do Firmware - 7.22 (Principal)
Data de Instalação - 28/04/1998 às 00:00 UTC

1.33 Tipo do Receptor - JPL ROGUE SNR-8000
Número de Série - 253
Versão do Firmware - 3.2 (Principal)
Data de Instalação - 26/05/1995 às 00:00 UTC
Data de Remoção - 28/04/1998 às 00:00 UTC

ANTENA

2.1 Tipo de Antena - LEICA AR10 (773758)
URL imagem - <https://files.igs.org/pub/station/general/antenna.gra>
Número de Série - 25347037
Altura da Antena (m) - 0,0080 (distância vertical do topo do dispositivo de centragem forçada à base da antena)
Data de Instalação - 25/04/2024 às 12:36 UTC

2.2 Tipo de Antena - ZEPHYR GNSS GEODETIC II (TRM57971.00) URL imagem
- <https://files.igs.org/pub/station/general/antenna.gra>
Número de Série - 2612117300

Altura da Antena (m) - 0,0080 (distância vertical do topo do dispositivo de centragem forçada à base da antena)

Data de Instalação - 28/09/2016 às 13:30 UTC

Data de Remoção - 25/04/2024 às 11:55 UTC

2.3 Tipo de Antena - LEICA AR10 (773758)

URL imagem - <https://files.igs.org/pub/station/general/antenna.gra>

Número de Série - 16046005

Altura da Antena (m) - 0,0080 (distância vertical do topo do dispositivo de centragem forçada à base da antena.)

Data de Instalação - 15/04/2015 às 16:29 UTC

Data de Remoção - 28/09/2016 às 12:45 UTC

2.4 Tipo de Antena - GNSS CHOKE RING (TRM59800.00)

URL imagem - <https://files.igs.org/pub/station/general/antenna.gra>

Número de Série - 4951353669

Altura da Antena (m) - 0,0080 (distância vertical do topo do dispositivo de centragem forçada à base da antena.)

Data de Instalação - 23/10/2014 às 12:45 UTC

Data de Remoção - 15/04/2015 às 15:54 UTC

2.5 Tipo de Antena - GNSS CHOKE RING (TRM59800.00)

URL imagem - <https://files.igs.org/pub/station/general/antenna.gra>

Número de Série - 4951353656

Altura da Antena (m) - 0,0080 (distância vertical do topo do dispositivo de centragem forçada à base da antena)

Data de Instalação - 25/04/2013 às 20:32 UTC

Data de Remoção - 23/10/2014 às 12:01 UTC

2.6 Tipo de Antena - ZEPHYR GEODETIC (TRM41249.00)

URL imagem - <https://files.igs.org/pub/station/general/antenna.gra>

Número de Série - 60183651

Altura da Antena (m) - 0,0080 (distância vertical do topo do dispositivo de centragem forçada à base da antena)

Data de Instalação - 27/11/2012 às 16:51 UTC

Data de Remoção - 25/04/2013 às 13:07 UTC

2.7 Tipo de Antena - GNSS CHOKE RING (TRM59800.00)

URL imagem - <https://files.igs.org/pub/station/general/antenna.gra>

Número de Série - 4951353656

Altura da Antena (m) - 0,0080 (distância vertical do topo do dispositivo de centragem forçada à base da antena)

Data de Instalação - 18/09/2012 às 13:55 UTC

Data de Remoção - 27/11/2012 às 16:30 UTC

2.8 Tipo de Antena - ZEPHYR GEODETIC (TRM41249.00)

URL imagem - <https://files.igs.org/pub/station/general/antenna.gra>

Número de Série - 60183651

Altura da Antena (m) - 0,0080 (distância vertical do topo do dispositivo de centragem forçada à base da antena)

Data de Instalação - 13/03/2007 às 00:00 UTC

Data de Remoção - 18/09/2012 às 12:03 UTC

2.9 Tipo de Antena - DORNE MARGOLIN T (TRM29659.00)

URL imagem - <https://files.igs.org/pub/station/general/antenna.gra>

Número de Série - 0220071001

Altura da Antena (m) - 0,0080 (distância vertical do topo do dispositivo de centragem forçada à base da antena)

Data de Instalação - 28/04/1998 às 00:00 UTC

Data de Remoção - 12/03/2007 às 00:00 UTC

2.10 Tipo de Antena - DORNE MARGOLIN T (TRM29659.00)

URL imagem - <https://files.igs.org/pub/station/general/antenna.gra>

Número de Série - 407

Altura da Antena (m) - 0,0070 (distância vertical do topo do dispositivo de centragem forçada à base da antena)

Data de Instalação - 26/05/1995 às 00:00 UTC

Data de Remoção - 28/04/1998 às 00:00 UTC

PARA INFORMAÇÕES TÉCNICAS CONTATAR:

Nome: IBGE/DGC/Coordenação de Geodésia

Endereço: Av. República do Chile, 500 - 4º andar, Centro - Rio de Janeiro. CEP - 20031-170

Telefone: (21) 2142-4935

FORMULÁRIO

Preparado por: Centro de Controle Eng. Kátia Duarte Pereira - RBMC
Data: 25/06/1997
Atualização: 25/04/2024 - Troca de equipamento

IDENTIFICAÇÃO DA ESTAÇÃO GPS

Nome da Estação: GOIÂNIA
Ident. da Estação: GOGY
Código SAT: 92860
Código Internacional: 48095M001

INFORMAÇÃO SOBRE A LOCALIZAÇÃO

Cidade: Goiânia
Estado: Goiás
Informações Adicionais: Pilar cilindro de concreto, medindo 1,80 m de altura e 0,30 m de diâmetro, engastado na coluna de concreto sobre a laje do prédio, no Observatório de Geomática. Possui no topo um dispositivo de centragem forçada e em sua face uma chapa de identificação estampada: SAT 92860. Sobre a laje do prédio onde está situado o Observatório de Geomática, no Instituto Federal de Educação, Ciência e Tecnologia-IFG, Campus Goiânia. Departamento III, Área de Geomática. No sítio deste encontra-se o SAT 92693.

COORDENADAS OFICIAIS

SIRGAS2000 (Época 2000.4)

Coordenadas Geodésicas			
Latitude:	- 16° 39' 53,02249"	Sigma:	0,001 m
Longitude:	- 47° 15' 16,82295"	Sigma:	0,001 m
Alt. Elip.:	734,201 m	Sigma:	0,001 m
Coordenadas Cartesianas			
X:	3.989.705,2145 m	Sigma:	0,005 m
Y:	-4.631.044,5820 m	Sigma:	0,006 m
Z:	-1.817.530,0271 m	Sigma:	0,002 m
Coordenadas Planas (UTM)			
UTM (N):	8.156.720,617 m		

UTM (E):	686.129,620 m		
MC:	-51		

INFORMAÇÕES DO EQUIPAMENTO GNSS

RECEPTOR

1.1 Tipo do Receptor TRIMBLE ALLOY

Número de Série 5931R40018

Versão do Firmware 6.10 (Principal)

Atualização do Firmware 10/06/2021 às 02:45 UTC

1.2 Tipo do Receptor TRIMBLE ALLOY

Número de Série 5931R40018

Versão do Firmware 5.45 (Principal)

Atualização do Firmware 24/06/2020 às 17:59 UTC

1.3 Tipo do Receptor - TRIMBLE ALLOY

Número de Série - 5931R40018

Versão do Firmware - 5.43 (Principal)

Data de Instalação - 16/12/2019 às 19:09 UTC

1.4 Tipo do Receptor - TRIMBLE NETR9

Número de Série - 5246K53473

Versão do Firmware - 5.30 (Principal)

Atualização do Firmware - 01/09/2017 às 00:00 UTC

Data de Remoção - 16/12/2019 às 14:30 UTC

1.5 Tipo do Receptor - TRIMBLE NETR9

Número de Série - 5246K53473

Versão do Firmware - 5.14 (Principal)

Atualização do Firmware - 24/11/2016 às 00:00 UTC

1.6 Tipo do Receptor - TRIMBLE NETR9

Número de Série - 5246K53473

Versão do Firmware - 5.03 (Principal)
Atualização do Firmware - 03/08/2015 às 14:35 UTC

1.7 Tipo do Receptor - TRIMBLE NETR9
Número de Série - 5246K53473
Versão do Firmware - 4.81 (Principal)
Atualização do Firmware - 08/01/2014 às 11:47 UTC

1.8 Tipo do Receptor - TRIMBLE NETR9
Número de Série - 5246K53473
Versão do Firmware - 4.62 (Principal)
Data de Instalação - 12/11/2013 às 12:00 UTC

1.9 Tipo do Receptor - TRIMBLE NETRS
Número de Série - 4644124503
Versão do Firmware - 1.2-0 (Principal)
Data de Instalação - 09/06/2013 às 00:00 UTC
Data de Remoção - 12/11/2013 às 12:00 UTC

ANTENA

2.1 Tipo de Antena - ZEPHYR GNSS GEODETIC II (TRM57971.00) URL imagem - <https://files.igs.org/pub/station/general/antenna.gra>
Número de Série - 2616117143
Altura da Antena (m) - 0,0080 (distância vertical do topo do dispositivo de centragem forçada à base da antena)
Data de Instalação - 12/11/2013 às 12:00 UTC

2.2 Tipo de Antena - ZEPHYR GEODETIC (TRM41249.00)
URL imagem - <https://files.igs.org/pub/station/general/antenna.gra>
Número de Série - 60183651
Altura da Antena (m) - 0,0080 (distância vertical do topo do dispositivo de centragem forçada à base da antena)
Data de Instalação - 09/06/2013 às 00:00 UTC
Data de Remoção - 12/11/2013 às 12:00 UTC

PARA INFORMAÇÕES TÉCNICAS CONTATAR:

Nome: IBGE/DGC/Coordenação de Geodésia
Endereço: Av. República do Chile, 500 - 4º andar, Centro - Rio de Janeiro. CEP - 20031-170
Telefone: (21) 2142-4935
Home Page: www.ibge.gov.br



Figura 9: Levantamento de Campo.

9 REFERENCIAS BIBLIOGRÁFICAS

Associação Brasileira de Normas Técnicas - ABNT. NBR 13133. Execução de levantamento topográfico. Rio de Janeiro. 1994. 35p.

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Municipal - Procedimento. Rio de Janeiro. 1996. 23p.

BARBER, David; MILLS, Jon; BRYAN, Paul. Towards a standard specification for terrestrial laser scanning of cultural heritage. Proceedings of CIPA XIX International Symposium, v. 19, p. 619–625, 2003.

Decreto-Lei no 1.177 de 21/06/1971 - Dispõe sobre o aerolevanteamento em território nacional;

Decreto no 2.278 de 17/07/1997 – RAA - Regulamenta o Decreto-Lei no 1177 de 21/06/1971 que dispõe sobre aerolevanteamento no território nacional;

Decreto 89.817, de 20/06/1984 - Instruções reguladoras das normas técnicas da cartografia nacional quanto aos padrões de exatidão;

Decreto no 5.334 de 6/01/2005 - Da nova redação ao art. 21 e revoga o art. 22 do Decreto no 89.817, de 20 de junho de 1984, que estabelece as Instruções Reguladoras das Normas Técnicas da Cartografia Nacional;

FERREIRA, I. O. Controle de qualidade em levantamentos hidrográficos. Tese (Doutorado). Programa de Pós-Graduação em Engenharia Civil, Universidade Federal de Viçosa, Viçosa, Minas Gerais, 216p., 2018.

HEISKANEN, W. A.; MORITZ, H. Physical Geodesy. San Francisco: W. H. Freeman and Company, 1967.

Gestão Engenharia e Comércio LTDA Av. Caetano Marinho, 216 - Centro, Pte. Nova - MG, 35430-001
+55 31 3817-5035 | +55 31 99923-8717

NBR 13.133, de 30/06/1994 - Que trata da execução de levantamentos topográficos; Portaria no 0637-SC-6/FA-61 de 05/03/1998 - IRA - Aprova as Instruções Reguladoras de Aerolevantamento em território nacional; RPR 22 de 21/07/1983 – IBGE Especificações e Normas Gerais para Levantamentos Geodésicos no Território

Brasileiro; RPR 1/2005 – IBGE - Altera a caracterização do Sistema Geodésico Brasileiro para o SIRGAS –Sistema de Referência Geocêntrico para as Américas;

RPR 4/2012 - Retifica a RPR 1/2005; SANTOS, D. A. R.; CAMARGO, P.X. Classificação do Uso do Solo do Município de Barão de Cocais - MG. TCC, Publicação ENC. PF-001A/07, Curso de Engenharia Civil, Faculdade Evangélica de Goianésia, Goianésia, GO, 34p. 2019.


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10 TERMO DE ENCERRAMENTO

O presente relatório composto por 151 folhas, sequencialmente numeradas compreende o Relatório Topográfico em volume único elaborado pelo Engenheiro Civil Projetista.

Goiânia - GO, 12 de Agosto de 2025.



Anderson Gregório Pereira

Engenheiro Supervisora – Consórcio Supervisor Engeevia


CREA-DF: 25956/D-DF

ANEXO – 1

**DECLARAÇÃO DE RESPONSABILIDADE TÉCNICA
PELO ESTUDO DA DISCIPLINA**

Objeto: Declaração de Responsabilidade por Estudos Topográficos;
Ref.: Projeto de Restauração de Rodovia e Obras de Arte Corrente e Especial

Eu, Anderson Gregório Pereira, Engenheiro Civil, portador do CPF nº 043.994.851-75 responsável pelos Estudos Topográficos, sob a Gestão da empresa: Consórcio Supervisor Engevia GO, detentora do Contrato nº 90/2024, cujo objeto é a Execução de serviços técnicos especializados de supervisão regional em apoio à fiscalização na execução das ações de manutenção e recuperação da malha rodoviária sob a jurisdição da GOINFRA do estado do Goiás, declaro que acompanhamos todos os levantamentos topográficos para determinação e/ou restauração do eixo da rodovia, OAE e OAC apresentados nos Estudos Complementares, e que esses levantamentos foram realizados obedecendo rigorosamente às normas técnicas e instruções de projetos (IP) em vigor e que assumimos total responsabilidade quanto à veracidade dos resultados apresentados.



Anderson Gregório Pereira

Engenheiro Supervisor – Consórcio Supervisor Engevia

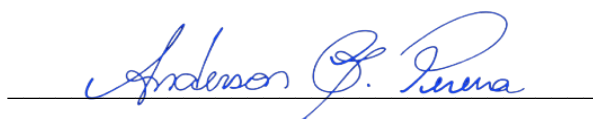
CREA-DF: 25956/D-DF

ANEXO – 2

**DECLARAÇÃO DE RESPONSABILIDADE TÉCNICA
PELA EDIÇÃO E AJUSTE DA TRIANGULAÇÃO DO MDT DA SUPERFÍCIE
PRIMITIVA**

Objeto: Declaração de Responsabilidade por Edição em Triangulação;
Ref.: Projeto de Restauração de Rodovia e Obras de Arte Corrente e Especial

Eu, Anderson Gregório Pereira, Engenheiro Civil, portador do CPF nº 043.994.851-75 responsável pelos Estudos Topográficos, sob a Gestão da empresa: Consórcio Supervisor Engevia GO, detentora do Contrato nº 90/2024, cujo objeto é a Execução de serviços técnicos especializados de supervisão regional em apoio à fiscalização na execução das ações de manutenção e recuperação da malha rodoviária sob a jurisdição da GOINFRA do estado do Goiás, declaro que foi realizada a edição e ajuste de triangulação do modelo digital de terreno (MDT) obedecendo rigorosamente às normas técnicas e instruções de projetos (IP) em vigor e que assumimos total responsabilidade quanto à veracidade dos resultados apresentados.



Anderson Gregório Pereira

Engenheiro Supervisora – Consórcio Supervisor Engevia

CREA-DF: 25956/D-DF

Anotação de Responsabilidade Técnica - ART
Lei nº 6.496, de 7 de dezembro de 1977

CREA-GO

ART Obra ou serviço
1020250159689

Conselho Regional de Engenharia e Agronomia de Goiás

1. Responsável Técnico(a)

ANDERSON GREGORIO PEREIRA

RNP: 0717455076

Título profissional: Engenheiro Civil,

Registro: 25956/D-DF

2. Dados do Contrato

Contratante: AGÊNCIA GOIANA DE INFRAESTRUTURA E TRANSPORTES – GOINFRA

CPF/CNPJ: 03.520.933/0001-06

Rua N/A, Nº 20

Bairro: Conjunto Calcara

CEP: 74000-000

Quadra: N/A Lote: N/A

Complemento: Governador Jose Ludo

Cidade: Goiânia-GO

E-Mail:

Fone: (62) 32654000

Contrato: 90/2024

Celebrado em: 06/09/2024

Valor Obra/Serviço R\$: 1.000,00

Tipo de contratante: Pessoa Jurídica de Direito Público

Ação institucional: Órgão Público

3. Dados da Obra/Serviço

Rua N/A, Nº N/A

Bairro: N/A

CEP: 74000-000

Quadra: N/A Lote: N/A

Complemento:

Cidade: DIVERSAS-GO

Data de Início: 06/09/2024

Previsão término: 06/09/2026

Coordenadas Geográficas: -16.6488964,-49.1565948

Finalidade: Infra-estrutura

Proprietário(a): AGÊNCIA GOIANA DE INFRAESTRUTURA E TRANSPORTES – GOINFRA

CPF/CNPJ: 03.520.933/0001-06

E-Mail:

Fone: (62) 32654000

Tipo de proprietário(a): Pessoa Jurídica de Direito Público

4. Atividade Técnica

ATUACAO

Quantidade

Unidade

RELATORIO TOPOGRAFIA

21,2780

QUILOMETROS

O registro da A.R.T. não obriga ao CREA-GO a emitir a Certidão de Acervo Técnico (C.A.T.), a confecção e emissão do documento apenas ocorrerá se as atividades declaradas na A.R.T. forem condizentes com as atribuições do(a) Profissional. As informações constantes desta ART são de responsabilidade do(a) profissional. Este documento poderá, a qualquer tempo, ter seus dados, preenchimento e atribuições profissionais conferidos pelo CREA-GO.

Após a conclusão das atividades técnicas o(a) profissional deverá proceder a baixa desta ART

5. Observações

EXECUÇÃO DE RELATÓRIO PARA SERVIÇOS DE LEVANTAMENTO E CADASTRAMENTO TOPOGRÁFICOS PARA OAC E OAE NAS S.R.E.'s 070EGO0017-0020 - OBJETIVANDO AÇÕES DE MANUTENÇÃO E RESTAURAÇÃO DENTRO DO LOTE-03 REGIONAL-11 CONTRATO Nº 090/2024 - SOB JURISDIÇÃO DA GOINFRA

6. Declarações

Acessibilidade: Não: Declaro que as regras de acessibilidade previstas nas normas técnicas da ABNT, na legislação específica e no Decreto nº 5.296, de 2 de dezembro de 2004, não se aplicam às atividades profissionais acima relacionadas.

7. Entidade de Classe

NENHUMA

9. Informações

- AART é válida somente após a conferência e o CREA-GO receber a informação do PAGAMENTO PELO BANCO.

- A autenticidade deste documento pode ser verificada no site www.creago.org.br.

- A guarda da via assinada da ART será de responsabilidade do(a) profissional e do(a) contratante com o objetivo de documentar o vínculo contratual.

- Não é mais necessário enviar o documento original para o CREA-GO. O CREA-GO não mais afixará carimbo na nova ART.



www.creago.org.br atendimento@creago.org.br
Tel: (62) 3221-6200



8. Assinaturas

Declaro serem verdadeiras as informações acima

GOIÂNIA - GO, 14 de AGOSTO de 2025

Local

Data

ANDERSON GREGORIO PEREIRA - CPF: 043.994.851-75

AGÊNCIA GOIANA DE INFRAESTRUTURA E TRANSPORTES –
GOINFRA - CPF/CNPJ: 03.520.933/0001-06

Valor da ART: 103,03	Registrada em 14/08/2025	Valor Pago R\$ 103,03	Nosso Numero 28320690125231650	Situação Registrada/OK	Não possui Livro de Ordem	Não Possui CAT
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