

GOVERNO DO ESTADO



CEARÁ

AVANÇANDO NAS MUDANÇAS

**GOVERNO DO ESTADO DO CEARÁ
SECRETARIA DOS RECURSOS HÍDRICOS**

**COMPANHIA DE GESTÃO DOS RECURSOS HÍDRICOS - COGERH
PROJETO DE DESENVOLVIMENTO, URBANO E GESTÃO DOS RECURSOS HÍDRICOS
PROURB CE**

PROJETO EXECUTIVO DA BARRAGEM DO ROSÁRIO

VOLUME II RELATÓRIO DE ESTUDOS BÁSICOS

TOMO 1 - ESTUDOS TOPOGRAFICOS

PARTE A - TEXTOS

ENGESOFT

**FORTALEZA- CE
JUNHO DE 1996**

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TOMO 1 - ESTUDOS TOPOGRÁFICOS
TOMO 1A - TEXTOS

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Projeto Nº 0087/02/01/A/PT-A
Volume 1
Qtd. A4 _____ Qtd. A3 _____
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Qtd. A0 _____ Outros _____



FORTALEZA
AGOSTO/97

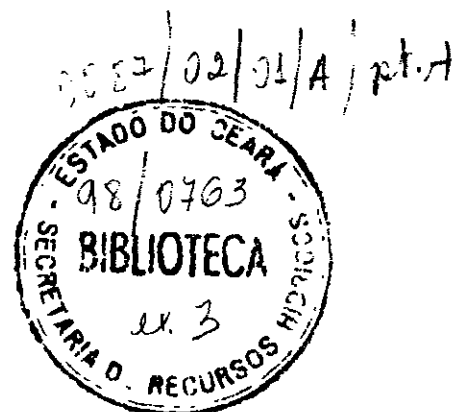


PROJETO EXECUTIVO DA BARRAGEM DO ROSÁRIO

VOLUME II – RELATÓRIO DE ESTUDOS BÁSICOS

Tomo 1 – Estudos Topográficos

Tomo 1A - Textos





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1 - APRESENTAÇÃO

1 - APRESENTAÇÃO

A Engesoft - Engenharia e Consultoria Ltda apresenta a seguir, o Projeto Executivo da Barragem do Rosário, objeto do contrato nº 022/96 - PROURB/COGERH, firmado com a COGERH

O referido projeto é composto dos seguintes volumes

Volume I - Relatório de Estudos Preliminares

Volume II - Relatório de Estudos Básicos

Tomo 1 - Estudos Topográficos

Tomo 2 - Estudos Geológico-Geotécnicos

Tomo 3 - Estudos Hidrológicos

Volume III - Relatório de Concepção

Volume IV - Minuta do Relatório Geral

Tomo 1 - Textos

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Volume V - Relatório Geral

Tomo 1 - Descrição Geral do Projeto - Textos

Tomo 2 - Memorial de Cálculo

Tomo 3 - Orçamento

Tomo 4 - Especificações Técnicas

Tomo 5 - Desenhos

Volume VI - Relatório Síntese

O presente relatório refere-se ao Volume II - Relatório de Estudos Básicos - Tomo 1 - Estudos Topográficos



O presente relatório tem por objetivos apresentar o levantamento Planialtimétrico do Eixo Barrável, Bacia Hidráulica, sangradouro e demais estudos topográficos complementares, de forma a fornecer dados para obtenção ao de plantas indispensáveis Ao andamento do projeto em questão, seguindo as especificações dos termos de Referência Este se divide em TOMO 1A –Textos e TOMO 1B - DESENHOS



2 - TRANSPORTE DE COTAS E COORDENADAS DE REFERÊNCIA

2. - TRANSFERÊNCIA DE COORDENADAS

2.1 - COTAS ALTIMÉTRICAS

O Levantamento Altimétrico da bacia hidráulica em questão, bem como dos demais locais de interesse para o projeto da barragem teve como dado de referência a cota altimétrica do marco do IBGE 492B localizado na Igreja Matriz da cidade de Quitaiús.

O marco em questão dista aproximadamente 2,00 Km do eixo da barragem e possui cota 287,7527 m.

2.2 - COORDENADAS

Para determinação dos Datuns planialtimétricos, foram utilizados rastreadores LEIKA com duas antenas, partindo-se do marco SB-24 1015 (Estação Poligonal) do IBGE localizado no Morro do Horto, em Juazeiro do Norte - CE, cuja localização se dá conforme a seguir

SB-241015:

Latitude: 07° 10' 22,436"

Longitude: 39° 10' 19,841"

Em UTM:

N - 9.207.122,489

E - 464.458,731.

O primeiro vértice auxiliar foi implantado na estaca 30, na ombreira direita do futuro eixo barrável.

O segundo vértice auxiliar, intervisível com o primeiro para determinação do azimute verdadeiro, foi implantado na estaca 48 situada na ombreira direita.

As coordenadas, em UTM das estacas 30 e 48 são respectivamente as seguintes:



Estaca 30·

X = 9 238.863,184

Y = 491.326,800

Estaca 48.

X = 9.239.180,735

Y = 491 493,013



DADOS DO MARCO ALTIMÉTRICO DO IBGE

2-0

DIRETORIA DE GEOCIÊNCIAS
DIGE02/NE3 - SEGUNDA DIVISÃO DE GEOCIÊNCIAS DO NORDESTE

RELAÇÃO DE ALTITUDES

KM	DESCRIÇÃO	ALTITUDE (m)	
		PRINCIPAL	SEGURANÇA
101..3	Estrada CE-385: LAVRAS DA MANGABEIRA-CARIRIACU	Nivelado: 1962 Visitado: .	
491 X	9 m da MD; 9 km além do entroncamento para localidade de Mangabeira. N = 9.244,9 km E = 493,6 km	296,1285	295,6849
491 Z	11 m da MD; 6,2 km aquém da igreja de Quitaiús. N = 9.244,0 km E = 491,5 km	304,6060	303,0591
492 A	9 m da MD; 60 m aquém do pontilhão sobre o córrego Irês Irmãos; 3,1 km aquém da igreja de Quitaiús. N = 9.241,9 km E = 490,6 km	270,2271	269,7477
492 B	Chapa cravada no 1º degrau da porta principal da igreja matriz de Quitaiús. N = 9.240,0 km E = 489,7 km	287,7527	-
IGREJA	Centro da soleira da porta principal da igreja da localidade de Quitaiús.	287,9757	-
492 C	6 m da MD; 2,9 km além da igreja matriz de Quitaiús. N = 9.238,0 km E = 488,5 km	314,1069	313,7379
492 D	9 m da MD; 5,9 km além da igreja matriz de Quitaiús. N = 9.237,7 km E = 486,2 km	338,9427	338,2420
492 E	8 m da MD; 1,6 km além da entrada para a fazenda Granjeiros; 8,9 km além da igreja matriz de Quitaiús. N = 9.236,0 km E = 485,6 km	339,5441	339,0919
492 F	12 m da MD; 370 m aquém da primeira ponte sobre o riacho do Rosário; 7,4 km aquém da capela da localidade de Freitas. N = 9.233,6 km E = 484,9 km	295,6562	295,0341
PONTE	Piso da 1ª. ponte sobre o riacho do Rosário.	294,7046	-
492 G	6 M da ME; 140 m além da casa do Sr. João Custódio Sobrinho; 4,4 km aquém da capela da localidade de Feitosa. N = 9.231,2 km E = 483,6 km	339,3639	338,8755
PONTE	Piso da 2ª. ponte sobre o riacho do Rosário.	313,9539	-

000013

DADOS GEODÉSICOS DA ESTAÇÃO DO IBGE

000014



ESTAÇÃO	nº	cad.	foto	quadric.	projeto	ordem	estab.	reoc.
SB.24.1015		13/03			ITERCE	1ª	1986	
estado	município	lugar		torre	datum	feito	conf.	
CE	Juazeiro do Norte	Sítio Bom Jesus			SAD 69			
latitude		longitude		altitude	N (UTM)		E (UTM)	
79 10' 22,436"		399 19' 18,841"		*608,6460 m'	9.207.122,489		464.458,731	

PONTO VISADO	DIREÇÃO	AZIMUTE		DISTÂNCIA
		MAG.	VERDADEIRO	
EP SB-24.1014	009 00' 00"		1319 31' 12,45"	19.749,67 m
Ref. "B"	135 35 52'	1109'		9,60 m'
Ref. "A"	239 59 35'	2169'		17,89 m'
Marco de Azimute	276 43 56,7'	2509'	48 15 09,2	1,109 m'
EP SB-24.1016	143 13 26,91'		274 44 39,69	13.749,52 m

LOCALIZAÇÃO: Na parte mais alta de uma elevação conhecida por Morro do Horto, o mesmo onde existe uma estátua do Padre Cícero, nas imediações da cidade de Juazeiro do Norte.

DESCRIÇÃO: O Marco de Centro é uma chapa padrão do IBGE, incrustada em um marco quadrangular de concreto, medindo 24 cm de lado, e que se salienta 15 cm acima do nível do solo. Na chapa está estampado SB.24.1015 - ITERCE - 1986.

Os Marcos de Referência "A" e "B" são chapas estampadas, respectivamente, MR-A e MR-B, cravadas em pedras.

O Marco de Azimute é idêntico ao Marco de Centro, estampado M.AZIMUTE - 1986.

ITINERÁRIO: Parte-se com zero km da Estátua do Padre Cícero, no Morro do Horto, e toma-se a estrada asfaltada para a cidade de Juazeiro do Norte. Com 1,3 km chega-se ao local dos marcos da Estação, uns 60 m à direita da estrada e um pouco antes da casa do Sr. Vital da Silva.

OBS.: O Marco de Azimute está, aproximadamente, 50 m a sudeste da estátua do Padre Cícero.

* Altitude obtida por nivelamento geométrico, partindo da RN 2568 B

RELATÓRIO DE TRANSFERÊNCIA DE COORDENADAS

GE_PS PROJECT SETTINGS #
#####

Processing software Leica SKI / Data processing version 1 09
General header LEICA AG, CH-9435 Heerbrugg
Project name rosario
Coordinate system WGS84
Time All results in local time (GPS -3 00 hrs)

GE_PP PROCESSING PARAMETERS #
#####

Cut-off angle (deg) 15
Tropospheric model Hopfield
Ionospheric model Standard
Ephemeris Broadcast
Data used Use Code and Phase
Frequency L1
Limit to resolve ambiguities (km) 31
a priori rms (mm) 50
Sampling rate for static (sec) Use all
Receiver clock offset (microsec) 1
Clock synchronization (microsec) 1
Phase processing Automatic
Code processing L1
Cycle slip detection Loss lock flag only
No of epochs for initialization (epoch) 25
Update rate for static (epoch) 25
Update rate for kinematic (epoch) 1
Initialize SGS/KIS with known coord No
Minimum time to fix amb - AROF (sec) 200

GE_SS SATELLITE SELECTION #
#####

Manually disabled satellites None

GE_BO BASELINE OVERVIEW #
#####

Total no of baselines computed 2

BL id	CH id	Rover	Reference	First common cp	Amb	Frq	Obs
1	1	cst30	m-0017	27/07/96 11 15 00	Y	1	STS
2	2	cst48	m-0017	27/07/96 13.03 00	Y	1	STS

000017

```
#####
# GE_IC INITIAL COORDINATES #
#####
```

Reference

Point id m-0017

X 4919841 8834 m Y -3992565 5936 m Z -730628 6708 m
 Lat 6 37 18 62265 S Lon 39 03 36 46627 W h 173 1210 m

Rover

Point id cst30

X 4915885 2898 m Y -3992020 3703 m Z -759674 3268 m
 Lat 6 53 10 62667 S Lon 39 04 43 88438 W h 197 3577 m

Point id cst48

X 4916020.3617 m Y -3991915 7824 m Z -759359 0573 m
 Lat 6 53 0 28626 S Lon 39 04 38 46651 W h 198 2089 m

CH 1 ===== NEW STATIC CHAIN =====

```
#####
# BL.1 cst30 m-0017 27/07/96 11 15 00 #
#####
```

BL_SE 1 START / END (COMMON) EPOCHS

 27/07/96 11 15 00 to 27/07/96 12 45.15

BL_OI 1 OPERATION INFORMATION

	Rover	Reference
Point id	cst30	m-0017
Sensor/Controller id	095009/097063	-----/091129
Operation mode	STS	STS
Observation rate (s)	15.0	15 0
Ht reading/Ant offset (m)	1 900 /0 039	1 204 /0 389
Eccentricity E/N/H (m)	0.000 /0.000 /0.000	0 000 /0 000 /0 000

BL_PI 1 PROCESSING INFORMATION

Number of observations rejected	0
Number of observations used	. 4294
Total number of parameters	727
Epoch independent parameters	. 3
Rms of weight unit	. 0055 m

BL_FS 1 FARA STATISTICS

Ambiguities to be resolved

SVid	Ref SVid	Carrier	Wavelength factor
2	18	1	1
29	18	1	1
19	18	1	1
14	18	1	1
27	18	1	1
31	18	1	1
7	18	1	1

----- FARA ----- Iteration 1 -----

NUMBER OF AMBIGUITY SETS= 279936
 RMS ACTUALLY COMPUTED = 2252

RMS RMS/RMS1 AMBIGUITIES

1	005	1 000	1	1	2	2	3	1	1
2	008	1 391	1	1	2	1	3	1	1
3	008	1 448	1	1	2	3	3	1	1
4	011	1 975	0	2	2	3	3	2	1
5	011	1 977	0	1	1	2	2	1	0
6	011	1 989	0	2	2	2	3	2	1
7	011	1 995	1	1	1	2	2	0	1
8	011	2.029	1	2	3	2	4	2	1
9	011	2 031	1	2	3	3	4	2	1
10	011	2 050	0	1	1	1	2	1	0

----- * FARA Summary ----- Iteration 1 *

rms a priori 50 0 [mm] rms float 3 3 [mm]
 Error prob. alpha 5 000 [%]
 Probability that (rms float < rms a priori) . 100 000 [%]

rms fix 1 5 5 [mm]
 Error prob alpha 5 000 [%]
 Probability that (rms fix 1 < rms a priori) 100 000 [%]

Error prob. alpha . .001 [%]
 Probability that (rms fix 1 < rms fix 2) 100.000 [%]

----- * Ambiguity Resolution successful * -----

Number of epochs with GDOP =< 8 362
 Total number of common epochs 362

Observation time (GDOP =< 8) 5415 sec
 Recommendation --- sec

BL_FC 1 FINAL COORDINATES

Rov cst30 Ref m-0017 Amb Y 27/07/96 11 15 00

Cartesian
 X 4915885 2898 m Y -3992020 3703 m Z -759674 3268 m
 dX -3956 5936 m dY 545 2233 m dZ -29045 6560 m
 sX 0 0009 m sY 0 0007 m sZ 0 0005 m

Geodetic
 Lat 6 53 10 62667 S Lon 39 04 43 88438 W h 197 3577 m
 dLat 15 52 00402 dLon 1 7 41811 dh 24.2367 m
 sLat 0 0004 m sLon 0 0004 m sh 0 0011 m

Distance
 Slopc 29318.9705 m sSlopc 0 0004 m

CH 2 ===== NEW STATIC CHAIN =====

 # BL 2 cst48 m-0017 27/07/96 13 03 00 #
 #####

BL_SE 2 START / END (COMMON) EPOCHS

27/07/96 13.03 00 to 27/07/96 14 34 30

BL_OI 2 OPERATION INFORMATION

Point id	Rover	Reference	
	cst48	m-0017	
Sensor/Controller id	095009/097063		----/091129
Operation mode	STS	STS	
Observation rate (s)	15 0	15 0	
Ht reading/Ant offset (m)	1 900 /0 039		1 204 /0 389
Eccentricity E/N/H (m)	0 000 /0 000 /0 000		0 000 /0.000 /0.000

BL_PI 2 PROCESSING INFORMATION

Number of observations rejected 0
 Number of observations used 4326
 Total number of parameters 737
 Epoch independent parameters 3
 Rms of weight unit 0061 m

BL_FS 2 FARA STATISTICS

Ambiguities to be resolved

SVid	Ref SVid	Carrier	Wavelength factor
7	2	1	1
19	2	1	1
18	2	1	1
27	2	1	1
16	2	1	1
4	2	1	1

----- FARA ----- Iteration 1 -----

NUMBER OF AMBIGUITY SETS= 46656
 RMS ACTUALLY COMPUTED = 1082

RMS RMS/RMS1 AMBIGUITIES

1	006	1 000	5	1	2	1	5	9
2	008	1 224	5	1	2	1	5	8
3	009	1 477	5	1	2	1	6	9
4	010	1 668	5	1	2	1	6	10
5	010	1 692	5	1	2	1	5	10
6	011	1 856	4	1	1	1	5	8
7	012	1 951	5	1	2	1	4	8
8	012	1 985	5	1	2	1	6	8
9	012	2 039	4	1	1	1	5	7
10	013	2 088	5	1	2	1	5	7

 * FARA Summary Iteration 1 *

rms a priori 50 0 [mm] rms float 5 9 [mm]
 Error prob alpha 5 000 [%]
 Probability that (rms float < rms a priori) 100 000 [%]

rms fix 1 6 1 [mm]
 Error prob alpha 5 000 [%]
 Probability that (rms fix 1 < rms a priori) 100 000 [%]

Error prob alpha . 001 [%]
 Probability that (rms fix 1 < rms fix 2) 100 000 [%]

 * Ambiguity Resolution successful *

Number of epochs with GDOP =< 8 356
 Total number of common epochs : 367

000021

Observation time (GDOP =< 8) 5325 sec
Recommendation --- sec

BL_FC 2 FINAL COORDINATES

Rov est48 Ref m-0017 Amb Y 27/07/96 13 03 00

Cartesian

X 4916020 3617 m Y -3991915 7824 m Z -759359 0573 m
dX -3821 5217 m dY 649 8112 m dZ -28730 3865 m
sX 0 0011 m sY 0 0008 m sZ 0 0005 m

Geodetic

Lat 6 53 0 28626 S Lon 39 04 38 46651 W h 198 2089 m
dLat 15 41 66361 dLon 1 2 00024 dh 25 0879 m
sLat 0 0004 m sLon 0 0006 m sh 0 0012 m

Distance

Slope 28990 7122 m sSlope 0 0004 m

Unit: m
Coordinate type: Geodetic
Reference ellipsoid: South American 1969
Projection set: L1

est30 6 53 9.173085 S 39 4 42.621848 W

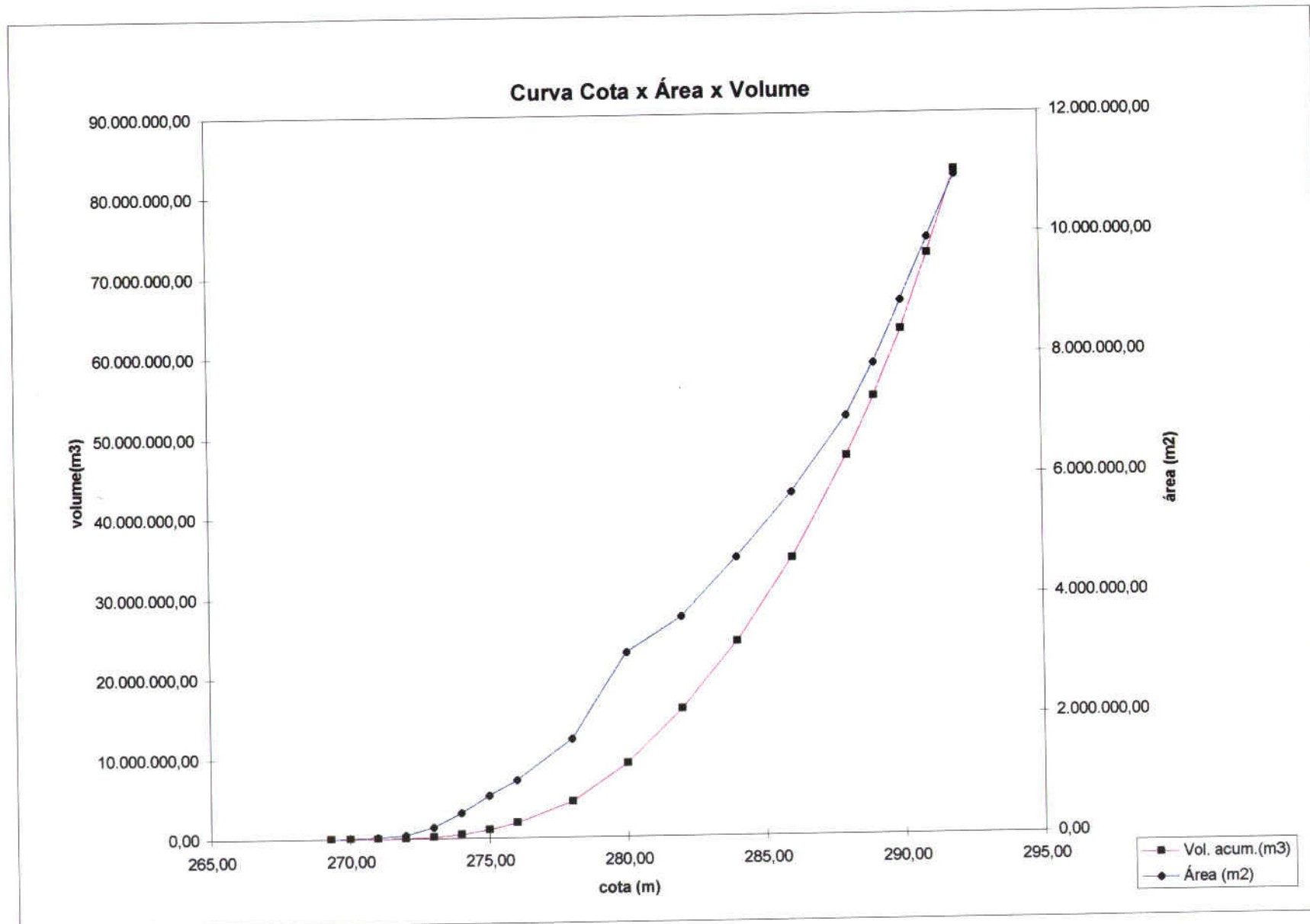
est48 6 52 58.832753 S 39 4 37.204037 W

m-0017 6 37 17.176298 S 39 3 35.205003 W

Unit: m
Coordinate type: Grid
Reference ellipsoid: South American 1969
Projection set: L1

est30	491326.8006	9238863.1840
est48	491493.0133	9239180.7354
m-0017	493392.1266	9268096.6178

3 - CURVA COTA X ÁREA X VOLUME



4 - CADERNETAS DE CAMPO

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario										Data 04/08/96			
IN	ALINHAMEN	AZIMUTE		DISTANCIA		LONG	PARC	LAT	PARC	COORD E (X)		COORD N (Y)		COORD (Z)	
DICE	EST P V	COMPENSADO	R U M O	QD	HORIZONTAL	X	(E+,W-)	Y	(N+,S-)	P V	TOT	COMPENS	TOT	COMPENS	DO PONTO
1	NM - E1	108 26'01"	71 33'59"	SE	0,000	0,000	0,000	E1	491 563,028	9 238 766,521	293,261				
2	E1 - E3	148 12'16"	31 47'44"	SE	1 133,726	597,349	-963,592	E3	492 160,377	9 237 802,929	309,687				
3	E1 - 1CED	137 21'26"	42 38'34"	SE	303,662	205,708	-223,371	1CED	491 768,736	9 238 543,150	272,559				
4	E1 - 2CED	56 58'21"	56 58'21"	NE	27,507	23,062	14,992	2CED	491 586,090	9 238 781,513	291,908				
5	E1 - 3CED	314 06'21"	45 53'39"	NW	156,907	-112,668	109,205	3CED	491 450,360	9 238 875,726	289,008				
6	E1 - 4	289 19'31"	70 40'29"	NW	117,113	-110,514	38,756	4	491 452,514	9 238 805,277	290,892				
7	E3 - CD	260 36'56"	80 36'56"	SW	54,178	-53,453	-8,834	CD	492 106,924	9 237 794,095	307,279				
8	E3 - 1	314 16'26"	45 43'34"	NW	786,343	-563,030	548,937	1	491 597,347	9 238 351,866	289,841				
9	E3 - 2	310 55'26"	49 04'34"	NW	787,069	-594,694	515,574	2	491 565,683	9 238 318,503	289,215				
10	E3 - 3	311 25'36"	48 34'24"	NW	732,483	-549,218	484,655	3	491 611,159	9 238 287,584	285,601				
11	E3 - 4	315 30'56"	44 29'04"	NW	735,630	-515,467	524,828	4	491 644,910	9 238 327,757	287,139				
12	E3 - 5CED	311 04'31"	48 55'29"	NW	653,680	-492,775	429,500	5CED	491 667,602	9 238 232,429	282,396				
13	E3 - 6	316 32'36"	43 27'24"	NW	643,427	-442,553	467,060	6	491 717,824	9 238 269,989	281,930				
14	E3 - 7	310 16'16"	49 43'44"	NW	521,715	-398,066	337,239	7	491 762,311	9 238 140,168	278,493				
15	E3 - 8	318 15'01"	41 44'59"	NW	542,960	-361,545	405,081	8	491 798,832	9 238 208,010	277,565				
16	E3 - 9	311 58'26"	48 01'34"	NW	431,433	-320,749	288,539	9	491 839,628	9 238 091,468	281,382				
17	E3 - 10	319 18'46"	40 41'14"	NW	427,958	-278,998	324,512	10	491 881,379	9 238 127,441	281,264				
18	E3 - 11	309 57'31"	50 02'29"	NW	312,397	-239,455	200,632	11	491 920,922	9 238 003,561	285,260				
19	E3 - 12CD	323 34'51"	36 25'09"	NW	314,734	-186,854	253,265	12CD	491 973,523	9 238 056,194	285,844				
20	E3 - 13	314 03'26"	45 56'34"	NW	165,384	-118,852	115,004	13	492 041,525	9 237 917,933	290,837				
21	E3 - 14	347 13'26"	12 46'34"	NW	171,761	-37,984	167,508	14	492 122,393	9 237 970,437	295,534				
22	E3 - 15	346 53'11"	13 06'49"	NW	64,852	-14,646	62,869	15	492 145,731	9 237 865,798	305,099				
23	E3 - 16CD	74 20'51"	74 20'51"	NE	158,733	152,847	42,827	16CD	492 313,224	9 237 845,756	314,720				
24	E3 - 17PA	139 31'11"	40 28'49"	SE	117,291	76,144	-89,215	17PA	492 236,521	9 237 713,714	299,881				
25	E3 - 18GR	111 25'36"	68 34'24"	SE	229,290	213,443	-83,762	18GR	492 373,820	9 237 719,167	298,509				
26	E3 - 19CD	136 05'21"	43 54'39"	SE	180,954	125,498	-130,363	19CD	492 285,875	9 237 672,566	301,978				
27	E3 - 20	101 58'11"	78 01'49"	SE	171,460	167,732	-35,560	20	492 328,109	9 237 767,369	309,936				
28	E3 - 21GR	98 24'56"	81 35'04"	SE	83,287	82,390	-12,189	21GR	492 242,767	9 237 790,740	303,944				
29	E3 - 22	127 56'01"	52 03'59"	SE	42,719	33,693	-26,261	22	492 194,070	9 237 776,668	306,077				

 Maior Coord (X) 492 373,820 Menor Coord (X) 491 450,360 Maior Coord (Y) 9 238 875,726 Menor Coord (Y) 9 237 672,566

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado

Proprietario

Data 17/07/96

IN DICK	ALINHAMENTOS		AZIMUTE		DISTANCIA		LONG	PARC	LAT	PARC	COORD E (X)		COORD N (Y)		COORD (Z)
	EST	P V	COMPENSADO	R U M O	QD	HORIZONTAL	X	(E+,W-)	Y	(N+,S-)	P V	TOT	COMPENS	TOT	COMPENS
1	NM	-	E28	165 43'06"	14 16'54"	SE	0,000	0,000	0,000	E28	488 094,582	9 235 716,991	304,292		
2	E28	-	E28B	170 52'06"	9 07'54"	SE	1 092,985	173,461	-1 079,133	E28B	488 268,043	9 234 637,858	303,061		
3	E28B	-	1	166 44'01"	13 15'59"	SE	46,294	10,623	-45,059	1	488 278,666	9 234 592,799	297,279		
4	E28B	-	2GR	137 46'11"	42 13'49"	SE	109,624	73,680	-81,171	2GR	488 341,723	9 234 556,687	285,030		
5	E28B	-	3	153 22'46"	26 37'14"	SE	136,823	61,308	-122,319	3	488 329,351	9 234 515,539	291,300		
6	E28B	-	4	128 48'16"	51 11'44"	SE	220,288	171,668	-138,047	4	488 439,711	9 234 499,811	290,921		
7	E28B	-	5	117 36'51"	62 23'09"	SE	225,262	199,602	-104,412	5	488 467,645	9 234 533,446	293,704		
8	E28B	-	6	100 52'11"	79 07'49"	SE	229,014	224,905	-43,187	6	488 492,948	9 234 594,671	296,157		
9	E28B	-	7R	359 28'36"	0 31'24"	NW	200,456	-1,831	200,448	7R	488 266,212	9 234 838,306	280,836		
10	E28B	-	8	96 06'36"	83 53'24"	SE	300,242	298,536	-31,957	8	488 566,579	9 234 605,901	294,713		
11	E28B	-	9	23 47'31"	23 47'31"	NE	133,562	53,881	122,211	9	488 321,924	9 234 760,069	290,966		
12	E28B	-	10R	81 44'21"	88 15'39"	SE	371,857	371,686	-11,286	10R	488 639,729	9 234 626,572	290,989		
13	E28B	-	11	46 15'06"	46 15'06"	NE	119,821	86,557	82,855	11	488 354,600	9 234 720,713	293,488		
14	E28B	-	12GR	61 53'11"	61 53'11"	NE	170,346	150,248	80,271	12GR	488 418,291	9 234 718,129	288,595		
15	E28B	-	13	93 51'46"	86 08'14"	SE	412,409	411,472	-27,783	13	488 679,515	9 234 610,075	298,063		
16	E28B	-	14	89 07'06"	89 07'06"	NE	293,374	293,339	4,514	14	488 561,382	9 234 642,372	293,612		
17	E28B	-	15R	91 25'46"	88 34'14"	SE	211,296	211,230	-5,271	15R	488 479,273	9 234 632,587	285,596		
18	E28B	-	16	84 27'31"	84 27'31"	NE	195,436	194,523	18,872	16	488 462,566	9 234 656,730	296,842		
19	E28B	-	17	81 46'51"	81 46'51"	NE	128,865	127,541	18,423	17	488 395,584	9 234 656,281	295,205		
20	E28B	-	18	94 57'36"	85 02'24"	SE	69,000	68,742	-5,966	18	488 336,785	9 234 631,892	282,571		

 Maior Coord (X) 488 679,515 Menor Coord (X) 488 094,582 Maior Coord (Y) 9 235 716,991 Menor Coord (Y) 9 234 499,811

TopoEVN 3 0 - Sistema para processamento de Levantamentos Topograficos Arquivo BACIA10 25/10/96 14 53 45

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario										Data	
												17/07/96	
IN DICE	ALINHAMEN EST P V	AZIMUTE COMPENSADO		RUM O QD	DISTANCIA HORIZONTAL	LONG PARC X - (E+,W-)	LAT PARC Y (N+,-)	P V	COORD E (X) TOT	COORD N (Y) TOT	COORD (Z) DO PONTO		
1	NM - E29	198	42'26"	18	42'26"	SW	0,000	0,000	0,000	E29	487 885,469	9 235 099,450	296,142
2	E29 - E31	309	04'11"	50	55'49"	NW	511,001	-396,731	322,066	E31	487 488,738	9 235 421,516	294,923
3	E31 - E32	238	47'16"	58	47'36"	SW	662,686	-566,798	-343,355	E32	486 921,940	9 235 078,161	296,053
4	E31 - 1CD	345	24'01"	14	35'59"	NW	86,777	-21,873	83,975	1CD	487 466,865	9 235 505,491	278,596
5	E31 - 2CD	320	00'01"	39	59'59"	NW	216,338	-139,059	165,725	2CD	487 349,679	9 235 587,241	279,889
6	E31 - 3Pç	8	22'26"	8	22'26"	NE	96,990	14,125	95,956	3Pç	487 502,863	9 235 517,472	279,221
7	E31 - 4CD	7	01'26"	7	01'26"	NE	188,000	22,989	186,589	4CD	487 511,727	9 235 608,105	280,222
8	E31 - 5CD	356	17'56"	3	42'04"	NW	214,624	-13,854	214,176	5CD	487 474,884	9 235 635,692	281,241
9	E31 - 6Pç	3	44'01"	3	44'01"	NE	260,315	16,951	259,763	6Pç	487 505,689	9 235 681,279	281,332
10	E31 - 7CD	7	13'26"	7	13'26"	NE	320,020	40,242	317,480	7CD	487 528,980	9 235 738,996	279,898
11	E31 - 8CD	13	12'26"	13	12'26"	NE	303,756	69,400	295,722	8CD	487 558,138	9 235 717,238	279,981
12	E31 - 9C	12	08'01"	12	08'01"	NE	331,039	69,582	323,644	9C	487 558,320	9 235 745,160	286,496
13	E31 - 10CD	7	27'26"	7	27'26"	NE	334,929	43,469	332,096	10CD	487 532,207	9 235 753,612	280,574
14	E31 - 11CD	14	34'51"	14	34'51"	NE	315,928	79,533	305,753	11CD	487 568,271	9 235 727,269	284,565
15	E31 - 12C	2	52'11"	2	52'11"	NE	367,007	18,374	366,547	12C	487 507,112	9 235 788,063	284,041
16	E31 - 13CD	16	03'01"	16	03'01"	NE	333,989	92,342	320,970	13CD	487 581,080	9 235 742,486	288,880
17	E31 - 14CD	4	26'06"	4	26'06"	NE	370,037	28,614	368,929	14CD	487 517,352	9 235 790,445	281,904
18	E31 - 15CD	5	37'21"	5	37'21"	NE	380,047	37,255	378,219	15CD	487 525,973	9 235 799,735	284,395
19	E31 - 16CD	17	11'06"	17	11'06"	NE	349,126	103,152	333,540	16CD	487 591,890	9 235 755,056	292,006
20	E31 - 18C	9	43'06"	9	43'06"	NE	402,878	68,008	397,097	18C	487 556,746	9 235 818,613	286,167
21	E31 - 19C	10	44'21"	10	44'21"	NE	426,207	79,419	418,742	19C	487 568,157	9 235 840,258	285,638
22	E31 - 20CD	11	54'36"	11	54'36"	NE	447,132	92,277	437,507	20CD	487 581,015	9 235 859,023	285,716
23	E31 - 21CD	12	22'56"	12	22'56"	NE	475,385	101,938	464,327	21CD	487 590,676	9 235 885,843	287,846
24	E31 - 22CD	5	25'16"	5	25'16"	NE	476,088	44,978	473,959	22CD	487 533,716	9 235 895,475	290,992
25	E31 - 23CD	5	50'36"	5	50'36"	NE	501,211	51,028	498,607	23CD	487 539,766	9 235 920,123	294,253
26	E31 - 24CD	14	25'16"	14	25'16"	NE	546,845	136,190	529,615	24CD	487 624,928	9 235 951,131	292,989
27	E31 - 25CD	8	20'46"	8	20'46"	NE	571,699	82,984	565,644	25CD	487 571,722	9 235 987,160	290,600
28	E31 - 26CD	1	18'41"	1	18'41"	NE	613,432	14,039	613,271	26CD	487 502,777	9 236 034,787	295,874
29	E31 - 27CD	357	18'11"	2	41'49"	NW	644,354	-30,319	643,640	27CD	487 458,419	9 236 065,156	302,901
30	E31 - 28CD	355	14'46"	4	45'14"	NW	570,015	-47,240	568,054	28CD	487 441,498	9 235 989,570	296,155
31	E31 - 29CD	352	51'06"	7	08'54"	NW	554,989	-69,062	550,675	29CD	487 419,676	9 235 972,191	295,822
32	E31 - 30CD	349	31'21"	10	28'39"	NW	475,934	-86,548	467,998	30CD	487 402,190	9 235 889,514	295,238
33	E31 - 31CD	348	23'21"	11	36'39"	NW	439,312	-88,417	430,322	31CD	487 400,321	9 235 851,838	292,288
34	E31 - 32C	350	13'26"	9	46'34"	NW	318,718	-54,118	314,090	32C	487 434,620	9 235 735,606	293,010
35	E31 - 33C	352	28'16"	7	31'44"	NW	322,232	-42,221	319,454	33C	487 446,517	9 235 740,970	292,669
36	E31 - 34C	341	34'56"	18	25'04"	NW	326,286	-103,088	309,573	34C	487 385,650	9 235 731,089	300,781
37	E31 - 35CD	333	09'31"	26	50'29"	NW	355,622	-160,571	317,307	35CD	487 328,167	9 235 738,823	299,869
38	E31 - 36CD	313	12'16"	46	47'44"	NW	394,730	-287,725	270,234	36CD	487 201,013	9 235 691,750	300,565
39	E31 - 37C	306	21'16"	53	38'44"	NW	420,192	-338,408	249,081	37C	487 150,330	9 235 670,597	300,674
40	E31 - 38PA	283	30'11"	76	29'49"	NW	321,629	-312,738	75,099	38PA	487 176,000	9 235 496,615	288,447
41	E31 - 39PA	295	05'21"	64	54'39"	NW	345,513	-312,913	146,507	39PA	487 175,825	9 235 568,023	287,914
42	E31 - 40CD	274	33'16"	85	26'44"	NW	202,869	-202,228	16,109	40CD	487 286,510	9 235 437,625	292,863
43	E31 - 41	290	36'01"	69	23'59"	NW	485,413	-454,375	170,791	41	487 034,363	9 235 592,307	290,622
44	E31 - 42R	250	17'21"	70	17'21"	SW	119,212	-112,227	-40,207	42R	487 376,511	9 235 381,309	279,155
45	E31 - 43CD	284	46'21"	75	13'39"	NW	505,234	-488,534	118,825	43CD	487 000,204	9 235 550,341	288,942
46	E31 - 44CD	191	59'41"	11	59'41"	SW	105,537	-21,933	-103,233	44CD	487 466,805	9 235 318,283	283,436
47	E31 - 45	284	58'26"	75	01'34"	NW	564,158	-545,001	145,766	45	486 943,737	9 235 567,282	301,638
48	E31 - 46CD	202	42'26"	22	42'26"	SW	414,044	-159,830	-381,951	46CD	487 328,908	9 235 039,565	303,139
49	E31 - 47CD	232	41'56"	52	41'56"	SW	412,531	-328,153	-249,995	47CD	487 160,585	9 235 171,521	281,298
50	E31 - 48R	232	49'36"	52	49'36"	SW	404,544	-322,345	-244,437	48R	487 166,393	9 235 177,079	278,928

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado _____ Proprietario _____ Data 17/07/96

IN DICE	ALINHAMENTOS EST P V	AZIMUTE COMPENSADO	R U M O QD	DISTANCIA HORIZONTAL	LONG PARC (E+,W-)	LAT PARC (N+,S-)	COORD E (X)	COORD N (Y)	COORD (Z)
51	E31 - 49CD	235 24'11"	55 24'11" SW	509,451	-485,216	-334,690	49CD 487 003,522	9 235 086,826	292,027
52	E31 - 50	238 47'56"	58 47'56" SW	662,649	-566,800	-343,281	50 486 921,938	9 235 078,235	292,340
53	E31 - 51CD	220 05'21"	40 05'21" SW	560,862	-361,183	-429,084	51CD 487 127,555	9 234 992,432	290,900
54	E31 - 52	223 49'31"	43 49'31" SW	642,516	-444,918	-463,546	52 487 043,820	9 234 957,970	303,848
55	E31 - 53	214 36'21"	34 36'21" SW	714,921	-406,023	-588,436	53 487 082,715	9 234 833,080	309,529
56	E31 - 54	265 51'36"	85 51'36" SW	250,339	-249,686	-18,073	54 487 239,052	9 235 403,443	299,596
57	E31 - 55	259 47'46"	79 47'46" SW	198,447	-195,308	-35,155	55 487 293,430	9 235 386,361	282,744
58	E31 - 56	257 31'16"	77 31'16" SW	250,918	-244,990	-54,218	56 487 243,748	9 235 367,298	287,606
59	E31 - 57	263 17'21"	83 17'21" SW	299,368	-297,317	-34,984	57 487 191,421	9 235 386,532	303,405
60	E31 - 58	254 46'51"	74 46'51" SW	327,248	-315,771	-85,907	58 487 172,967	9 235 335,609	288,612
61	E31 - 59	261 29'16"	81 29'16" SW	341,322	-337,562	-50,523	59 487 151,176	9 235 370,993	302,850
62	E31 - 60	251 00'11"	71 00'11" SW	387,257	-366,165	-126,059	60 487 122,573	9 235 295,457	287,198
63	E31 - 61	258 56'01"	78 56'01" SW	391,819	-384,533	-75,208	61 487 104,205	9 235 346,308	301,910
64	E31 - 62	255 30'36"	75 30'36" SW	441,939	-427,802	-110,578	62 487 060,856	9 235 310,938	298,072
65	E31 - 63C	250 47'06"	70 47'06" SW	503,784	-475,718	-165,802	63C 487 013,020	9 235 255,714	289,152
66	E31 - 64CD	254 15'51"	74 15'51" SW	498,519	-479,836	-135,200	64CD 487 008,902	9 235 286,316	295,101
67	E32 - E33	270 32'56"	89 27'04" NW	1 129,724	-1 129,672	10,822	E33 485 792,268	9 235 088,983	303,553
68	E32 - 1CD	334 28'16"	25 31'44" NW	122,979	-53,000	110,972	1CD 486 868,940	9 235 189,133	279,618
69	E32 - 2CD	279 52'26"	80 07'34" NW	209,075	-205,978	35,852	2CD 486 715,962	9 235 114,013	280,390
70	E32 - 3CD	267 10'06"	87 10'06" SW	322,015	-321,622	-15,908	3CD 486 600,318	9 235 062,253	281,488
71	E32 - 4CD	266 51'31"	86 51'31" SW	370,217	-369,661	-20,288	4CD 486 552,279	9 235 057,873	281,929
72	E32 - 5PÇ	329 08'06"	30 51'54" NW	435,037	-223,181	373,426	5PÇ 486 698,759	9 235 451,587	282,532
73	E32 - 6CD	266 24'16"	86 24'16" SW	543,734	-542,664	-34,099	6CD 486 379,276	9 235 044,062	283,087
74	E32 - 7R	269 25'06"	89 25'06" SW	743,232	-743,194	-7,545	7R 486 178,746	9 235 070,616	283,074
75	E32 - 8R	269 25'41"	89 25'41" SW	1 002,422	-1 002,372	-10,006	8R 485 919,568	9 235 068,155	284,916
76	E32 - 9	271 32'21"	88 27'39" NW	959,796	-959,450	25,780	9 485 962,490	9 235 103,941	300,707
77	E32 - 10	271 52'16"	88 07'44" NW	922,369	-921,877	30,116	10 486 000,063	9 235 108,277	299,938
78	E32 - 11CD	255 45'21"	75 45'21" SW	122,833	-119,057	-30,224	11CD 486 802,883	9 235 047,937	288,289
79	E32 - 12	11 31'46"	11 31'46" NE	186,725	37,321	182,957	12 486 959,261	9 235 261,118	294,073
80	E32 - 13C	252 44'06"	72 44'06" SW	155,197	-148,204	-46,061	13C 486 773,736	9 235 032,100	294,375
81	E32 - 14	346 08'36"	13 51'24" NW	181,155	-43,386	175,883	14 486 878,554	9 235 254,044	290,451
82	E32 - 15CD	322 14'56"	37 45'04" NW	194,332	-118,976	153,654	15CD 486 802,964	9 235 231,815	292,585
83	E32 - 16	306 32'46"	53 27'14" NW	237,321	-190,658	141,317	16 486 731,282	9 235 219,478	293,232
84	E32 - 17	292 25'56"	67 34'04" NW	296,668	-274,220	113,206	17 486 647,720	9 235 191,367	292,351
85	E32 - 18CD	290 00'36"	69 59'24" NW	325,799	-306,131	111,483	18CD 486 615,809	9 235 189,644	295,565
86	E32 - 19CD	279 07'06"	80 52'54" NW	451,375	-445,671	71,531	19CD 486 476,269	9 235 149,692	288,368
87	E32 - 20CD	279 44'26"	80 15'34" NW	525,474	-517,899	88,903	20CD 486 404,041	9 235 167,064	299,181
88	E32 - 21CD	252 14'16"	72 14'16" SW	527,670	-502,516	-160,975	21CD 486 419,424	9 234 917,186	295,054
89	E32 - 22C	274 25'21"	85 34'39" NW	471,833	-469,631	36,322	22C 486 452,309	9 235 114,483	285,829
90	E32 - 23C	276 45'41"	83 14'19" NW	735,621	-730,505	86,608	23C 486 191,435	9 235 164,769	294,544
91	E32 - 24	259 19'01"	79 19'01" SW	578,415	-568,390	-107,224	24 486 353,550	9 234 970,937	287,897
92	E32 - 25	265 25'16"	85 25'16" SW	662,099	-659,986	-52,856	25 486 261,954	9 235 025,305	288,771
93	E32 - 26	266 53'31"	86 53'31" SW	689,580	-688,566	-37,388	26 486 233,374	9 235 040,773	290,649
94	E33 - E34	286 55'56"	26 55'56" SW	337,358	-152,802	-300,769	E34 485 639,466	9 234 788,214	305,532
95	E33 - 1	120 39'26"	59 20'34" SE	87,672	75,418	-44,704	1 485 867,686	9 235 044,279	288,829
96	E33 - 2C	131 29'21"	48 30'39" SE	118,086	88,456	-78,229	2C 485 880,724	9 235 010,754	289,603
97	E33 - 3C	126 20'56"	53 39'04" SE	129,284	104,128	-76,627	3C 485 896,396	9 235 012,356	290,322
98	E33 - 4	119 27'36"	60 32'24" SE	174,885	152,272	-86,011	4 485 944,540	9 235 002,972	292,141
99	E33 - 5	111 48'46"	68 11'14" SE	333,661	309,772	-123,980	5 486 102,040	9 234 965,003	296,304
100	E33 - 6	145 14'51"	34 45'09" SE	71,358	40,676	-58,629	6 485 832,944	9 235 030,354	284,227

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado _____ Proprietario _____ Data 17/07/96

IN DICE	ALINHAMENTOS		AZIMUTE		DISTANCIA		LONG	PARC	LAT	PARC	COORD E (X)		COORD N (Y)		COORD (Z)
	EST	P V	COMPENSADO	R U M O	Q D	HORIZONTAL	X	(E+,W-)	Y	(N+,S-)	P V	TOT	COMPENS	TOT	COMPENS
101	E33	- 7	174 45'11"	5 14'49"	SE	151,844	13,886	-151,208	7	485 806,154	9 234 937,775	286,290			
102	E33	- 8EST	98 52'16"	81 07'44"	SE	372,886	368,425	-57,504	8EST	486 160,693	9 235 031,479	296,097			
103	E33	- 9	170 02'01"	9 57'59"	SE	165,058	28,567	-162,567	9	485 820,835	9 234 926,416	292,114			
104	E33	- 10R	101 52'21"	78 07'39"	SE	281,593	275,569	-57,933	10R	486 067,837	9 235 031,050	284,053			
105	E33	- 11R	196 40'51"	16 40'51"	SW	107,782	-30,938	-103,246	11R	485 761,330	9 234 985,737	285,312			
106	E33	- 12R	229 09'51"	49 09'51"	SW	202,541	-153,240	-132,440	12R	485 639,028	9 234 956,543	286,009			
107	E33	- 13ES	201 15'41"	21 15'41"	SW	197,264	-71,533	-183,837	13ES	485 720,735	9 234 905,146	291,137			
108	E33	- 14CD	225 14'01"	45 14'01"	SW	295,752	-209,979	-208,274	14CD	485 582,289	9 234 880,709	287,328			
109	E33	- 15ES	214 02'26"	34 02'26"	SW	307,564	-172,168	-254,860	15ES	485 620,100	9 234 834,123	290,029			
110	E33	- 16R	216 57'01"	36 57'01"	SW	434,041	-260,911	-346,867	16R	485 531,357	9 234 742,116	287,150			
111	E33	- 17C	214 22'41"	34 22'41"	SW	478,801	-270,355	-395,169	17C	485 521,913	9 234 693,814	291,470			
112	E33	- 18CD	217 24'26"	37 24'26"	SW	488,718	-296,884	-388,207	18CD	485 495,384	9 234 700,776	291,011			
113	E33	- 19RD	225 48'36"	45 48'36"	SW	476,801	-341,882	-332,349	19RD	485 450,386	9 234 756,634	288,358			
114	E33	- 20C	218 24'51"	38 24'51"	SW	519,688	-322,904	-407,196	20C	485 469,364	9 234 681,787	291,845			
115	E33	- 21C	223 15'56"	43 15'56"	SW	558,916	-383,070	-406,994	21C	485 409,198	9 234 681,989	292,297			
116	E33	- 22C	224 27'41"	44 27'41"	SW	547,670	-393,604	-390,884	22C	485 408,664	9 234 698,099	292,186			
117	E33	- 23C	231 16'31"	51 16'31"	SW	391,119	-305,846	-243,787	23C	485 486,422	9 234 845,196	291,373			
118	E33	- 24C	231 50'31"	51 50'31"	SW	367,647	-289,084	-227,144	24C	485 503,184	9 234 861,839	292,626			
119	E33	- 25PÇ	229 38'46"	49 38'46"	SW	373,486	-284,619	-241,835	25PÇ	485 507,649	9 234 847,148	290,790			
120	E33	- 26C	234 50'21"	54 50'21"	SW	337,066	-275,565	-194,107	26C	485 516,703	9 234 894,876	294,655			
121	E33	- 27PÇ	225 58'41"	45 58'41"	SW	370,227	-266,220	-257,283	27PÇ	485 526,048	9 234 831,700	288,619			
122	E33	- 28	238 20'01"	58 20'01"	SW	82,140	-69,911	-43,121	28	485 722,357	9 235 045,862	299,237			

 Maior Coord (X) 487 885,469 Menor Coord (X) 485 408,664 Maior Coord (Y) 9 236 065,156 Menor Coord (Y) 9 234 681,787

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado _____ Proprietario _____ Data 05/08/96

IN DICE	ALINHAMENTO		AZIMUTE		DISTANCIA		LONG	PARC	LAT	PARC	COORD E (X)		COORD N (Y)		COORD (Z)
	EST	P V	COMPENSADO	R U M O	QD	HORIZONTAL	X	(E+,W-)	Y	(N+,S-)	P V	TOT	COMPENS	TOT	COMPENS
1	NM	- E7	140 03'26"	39 56'34"	SE	0,000	0,000	0,000	E7	491 315,517	9 237 811,088	289,139			
2	E7	- E9	145 26'11"	34 33'49"	SE	344,755	195,587	-283,905	E9	491 511,104	9 237 527,183	294,549			
3	E9	- E12	119 25'26"	60 34'34"	SE	561,669	489,219	-275,929	E12	492 000,323	9 237 251,254	298 781			
4	E9	- 1	207 53'41"	27 53'41"	SW	37,767	-17,669	-33,379	1	491 493,435	9 237 493,804	293,495			
5	E9	- 2	141 51'51"	38 08'09"	SE	36,632	22,621	-28,813	2	491 533,725	9 237 498,370	287,672			
6	E9	- 3	213 30'31"	33 30'31"	SW	86,164	-47,568	-71,844	3	491 463,536	9 237 455,339	292,942			
7	E9	- 4	174 35'11"	5 24'49"	SE	66,385	6,263	-66,089	4	491 517,367	9 237 461,094	288,517			
8	E9	- 5	194 18'26"	14 18'26"	SW	172,207	-42,556	-166,866	5	491 468,548	9 237 360,317	293,563			
9	E9	- 6	191 10'41"	11 10'41"	SW	236,832	-45,912	-232,339	6	491 465,192	9 237 294,844	298,333			
10	E9	- 7GR	160 56'46"	19 03'14"	SE	116,911	38,166	-110,506	7GR	491 549,270	9 237 416,677	284,797			
11	E9	- 7	198 39'46"	18 39'46"	SW	315,926	-101,096	-299,314	7	491 410,008	9 237 227,869	301,355			
12	E9	- 8	177 14'46"	2 45'14"	SE	156,251	7,507	-156,071	8	491 518,611	9 237 371,112	286,747			
13	E9	- 9	208 04'06"	28 04'06"	SW	284,855	-134,031	-251,352	9	491 377,073	9 237 275,831	299,631			
14	E9	- 10	176 23'56"	3 36'04"	SE	191,467	12,026	-191,089	10	491 523,130	9 237 336,094	288,788			
15	E9	- 11	213 32'16"	33 32'16"	SW	384,296	-212,318	-320,319	11	491 298,786	9 237 206,864	305,311			
16	E9	- 12	176 09'41"	3 50'19"	SE	259,025	17,341	-258,444	12	491 528,445	9 237 268,739	296,560			
17	E9	- 13	140 24'16"	39 35'44"	SE	137,147	87,413	-105,680	13	491 598,517	9 237 421,503	288,387			
18	E9	- 14	162 45'56"	17 14'04"	SE	169,862	50,327	-162,235	14	491 561,431	9 237 364,948	293,738			
19	E9	- 15CD	149 08'36"	30 51'24"	SE	358,025	183,628	-307,348	15CD	491 694,732	9 237 219,835	292,724			
20	E9	- 16	143 59'26"	36 00'34"	SE	348,932	205,144	-282,258	16	491 716,248	9 237 244,925	290,193			
21	E9	- 17	180 12'41"	29 47'19"	SE	423,862	210,575	-367,855	17	491 721,679	9 237 159,328	297,881			
22	E9	- 18	145 13'41"	34 46'19"	SE	413,431	235,784	-339,604	18	491 746,888	9 237 187,579	294,197			
23	E9	- 19	141 52'16"	38 07'44"	SE	576,504	355,952	-453,492	19	491 867,056	9 237 073,691	296,715			
24	E9	- 20	180 29'46"	29 30'14"	SE	637,460	313,938	-554,796	20	491 825,042	9 236 972,387	300,265			
25	E9	- 21	143 59'21"	36 00'39"	SE	624,025	366,888	-504,777	21	491 877,992	9 237 022,406	295,894			
26	E9	- 22	137 59'21"	42 00'39"	SE	576,885	386,092	-428,636	22	491 897,196	9 237 098,547	296,160			
27	E9	- 23	130 17'31"	49 42'29"	SE	553,975	422,550	-358,246	23	491 933,654	9 237 168,937	300,603			
28	E9	- 24	133 55'36"	46 04'24"	SE	511,060	368,080	-354,541	24	491 879,184	9 237 172,642	296,337			
29	E9	- 25	129 33'51"	50 26'09"	SE	487,420	375,758	-310,458	25	491 886,862	9 237 216,725	296,484			
30	E9	- 26	129 03'11"	50 56'49"	SE	433,819	336,888	-273,323	26	491 847,992	9 237 253,860	291,159			
31	E9	- 27	133 26'31"	46 33'29"	SE	439,691	319,247	-302,340	27	491 830,351	9 237 224,843	291,149			
32	E9	- 28	125 00'01"	54 59'59"	SE	370,440	303,446	-212,477	28	491 814,550	9 237 314,706	284,356			
33	E9	- 29	131 56'01"	48 03'59"	SE	365,571	271,955	-244,300	29	491 783,059	9 237 282,883	282,600			
34	E9	- 30	127 12'41"	52 47'19"	SE	214,639	170,941	-129,805	30	491 682,045	9 237 397,378	282,234			
35	E9	- 31R	120 19'31"	59 40'29"	SE	210,053	181,312	-106,058	31R	491 692,416	9 237 421,125	275,011			
36	E9	- 32	107 42'21"	72 17'39"	SE	29,243	27,858	-8,894	32	491 538,962	9 237 518,289	319,307			
37	E9	- 33	117 16'31"	62 43'29"	SE	245,855	218,520	-112,667	33	491 729,624	9 237 414,516	283,193			
38	E9	- 34	111 31'21"	68 28'39"	SE	256,105	238,248	-93,956	34	491 749,352	9 237 433,227	286,926			
39	E9	- 35	104 52'11"	75 07'49"	SE	278,100	268,787	-71,367	35	491 779,891	9 237 455,816	293,065			
40	E9	- 36	121 45'01"	58 14'59"	SE	343,887	292,424	-180,960	36	491 803,528	9 237 346,223	280,356			
41	E9	- 37	121 55'21"	58 04'39"	SE	390,776	331,677	-206,631	37	491 842,781	9 237 320,552	286,350			
42	E9	- 38	121 59'06"	58 00'54"	SE	428,182	363,178	-226,807	38	491 874,282	9 237 300,376	289,789			
43	E9	- 39	120 50'56"	59 09'04"	SE	472,005	405,227	-242,033	39	491 916,331	9 237 285,150	292,548			
44	E9	- 40	117 27'16"	62 32'44"	SE	452,130	401,210	-208,451	40	491 912,314	9 237 318,732	287,884			
45	E9	- 41	119 24'51"	60 35'09"	SE	530,586	462,189	-260,581	41	491 973,293	9 237 266,602	296,309			
46	E9	- 42C	128 03'26"	51 56'34"	SE	543,373	427,849	-334,961	42C	491 938,953	9 237 192,222	300,485			
47	E12	- E13	127 34'31"	52 25'29"	SE	251,563	199,377	-153,404	E13	492 199,700	9 237 097,850	296,871			
48	E12	- 1	15 15'46"	15 15'46"	NE	67,860	17,864	65,466	1	492 018,187	9 237 316,720	288,821			
49	E12	- 2	39 17'36"	39 17'36"	NE	56,617	35,855	43,817	2	492 036,178	9 237 295,071	288,525			
50	E12	- 3R	48 32'26"	48 32'26"	NE	117,275	87,889	77,647	3R	492 088,212	9 237 328,901	276,721			

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Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Intressado		Proprietario										Data 05/08/96			
IN	ALINHAMEN	AZIMUTE		DISTANCIA		LONG	PARC	LAT	PARC	COORD E (X)		COORD N (Y)		COORD (Z)	
DICE	EST P V	COMPENSADO	R U M O	QD	HORIZONTAL	X	(E+,W-)	Y	(N+,S-)	P V	TOT	COMPENS	TOT	COMPENS	DO PONTO
51	E12 - 4	39 56'06"	39 56'06"	NE	161,591	103,728		123,904		4	492 104,051	9 237 375,158		276,877	
52	E12 - 5	25 15'01"	25 15'01"	NE	163,232	69,630		147,636		5	492 069,953	9 237 398,890		281,759	
53	E12 - 6	24 05'56"	24 05'56"	NE	197,103	80,480		179,924		6	492 080,803	9 237 431,178		293,140	
54	E12 - 7	22 55'31"	22 55'31"	NE	214,654	83,614		197,699		7	492 083,937	9 237 448,953		299,940	
55	E12 - 8	42 42'01"	42 42'01"	NE	223,283	151,422		164,093		8	492 151,745	9 237 415,347		286,731	
56	E12 - 9	354 58'31"	5 01'29"	NW	203,822	-17,852		203,039		9	491 982,471	9 237 454,293		297,220	
57	E12 - 10CD	336 28'36"	23 31'24"	NW	57,384	-22,903		52,615	10CD	491 977,420	9 237 303,869		290,953		
58	E12 - 11CD	42 57'36"	42 57'36"	NE	327,539	223,214		239,703	11CD	492 223,537	9 237 490,957		307,169		
59	E12 - 12CD	51 13'46"	51 13'46"	NE	345,412	269,304		216,298	12CD	492 269,627	9 237 467,552		302,498		
60	E12 - 13	55 10'01"	55 10'01"	NE	278,280	228,418		158,950	13	492 228,741	9 237 410,204		295,233		
61	E12 - 14	61 22'01"	61 22'01"	NE	375,147	329,269		179,770	14	492 329,592	9 237 431,024		301,292		
62	E12 - 15	63 03'36"	63 03'36"	NE	326,434	291,010		147,893	15	492 291,333	9 237 399,147		291,461		
63	E12 - 16	63 40'16"	63 40'16"	NE	260,030	233,055		115,329	16	492 233,378	9 237 366,583		287,678		
64	E12 - 17R	87 49'46"	87 49'46"	NE	126,334	126,243		4,785	17R	492 126,566	9 237 256,039		280,998		
65	E12 - 18	63 43'26"	63 43'26"	NE	177,094	158,795		78,399	18	492 159,118	9 237 329,653		288,003		
66	E12 - 19	65 08'51"	65 08'51"	NE	128,586	116,678		54,043	19	492 117,001	9 237 305,297		285,321		
67	E12 - 20	95 10'21"	84 49'39"	SE	195,806	195,009		-17,653	20	492 195,332	9 237 233,601		293,885		
68	E12 - 21	76 58'11"	76 58'11"	NE	177,558	172,986		40 033	21	492 173,309	9 237 291,287		291,070		
69	E12 - 22	77 22'41"	77 22'41"	NE	262,681	256,333		57,400	22	492 256,656	9 237 308,654		287,499		
70	E12 - 23PA	96 58'21"	83 01'39"	SE	375,259	372,484		-45,554	23PA	492 372,807	9 237 205,700		296,281		
71	E12 - 24	76 17'06"	76 17'06"	NE	340,746	331,030		80,788	24	492 331,353	9 237 332,042		295,320		
72	E12 - 25GR	85 14'46"	85 14'46"	NE	400,715	399,336		33,210	25GR	492 399,659	9 237 284,464		286,805		
73	E12 - 26	80 59'21"	80 59'21"	NE	451,100	445,533		70,652	26	492 445,856	9 237 321,906		297 217		
74	E12 - 27	77 22'56"	77 22'56"	NE	487,933	476,149		106,587	27	492 476,472	9 237 357,841		300,209		
75	E12 - 28	98 06'31"	81 53'29"	SE	463,250	458,619		-65,341	28	492 458,942	9 237 185,913		296,973		
76	E12 - 29	77 37'21"	77 37'21"	NE	611,842	597,621		131,149	29	492 597,944	9 237 382,403		304,089		
77	E12 - 30	92 05'26"	87 54'34"	SE	543,104	542,743		-19,812	30	492 543,066	9 237 231,442		294,534		
78	E12 - 31	82 44'46"	82 44'46"	NE	778,288	772,059		98,272	31	492 772,382	9 237 349,526		298,569		
79	E12 - 32	95 22'21"	84 37'39"	SE	666,429	663,501		-62,398	32	492 663,824	9 237 188,856		300,102		
80	E12 - 33	85 07'06"	85 07'06"	NE	893,770	890,528		76,058	33	492 890,851	9 237 327,312		294,236		
81	E12 - 34	89 09'01"	89 09'01"	NE	847,287	847,194		12,565	34	492 847,517	9 237 263,819		294,277		
82	E12 - 35	86 49'51"	86 49'51"	NE	1 018,082	1 016,525		56,284	35	493 016,848	9 237 307,538		295,440		
83	E12 - 36	86 55'41"	86 55'41"	NE	1 113,262	1 111,662		59,660	36	493 111,985	9 237 310,914		300,671		
84	E12 - 37R	85 45'26"	85 45'26"	NE	1 138,558	1 135,438		84,234	37R	493 135,761	9 237 335,488		296,696		
85	E12 - 38	89 53'41"	89 53'41"	NE	1 051,574	1 051,572		1,932	38	493 051,895	9 237 253,186		303,803		
86	E12 - 39	93 14'36"	86 45'24"	SE	981,914	980,341		-55,553	39	492 980,664	9 237 195,701		307,361		
87	E12 - 40	97 47'06"	82 12'54"	SE	756,092	749,123		-102,417	40	492 749,446	9 237 148,837		308,850		
88	E12 - 41	104 47'56"	75 12'04"	SE	571,995	553,021		-146,103	41	492 553,344	9 237 105,151		303,001		
89	E12 - 42	110 36'16"	69 23'44"	SE	476,493	446,013		-167,685	42	492 446,336	9 237 083,569		299,639		
90	E12 - 43	126 37'46"	53 22'14"	SE	367,723	295,102		-219,397	43	492 295,425	9 237 031,857		297,166		
91	E12 - 44	132 17'16"	47 42'44"	SE	257,945	190,821		-173,560	44	492 191,144	9 237 077,694		293,169		
92	E12 - 45	146 18'11"	33 41'49"	SE	57,902	32,124		-48,174	45	492 032,447	9 237 203,080		294,478		
93	E12 - 46	111 57'26"	68 02'34"	SE	101,185	93,845		-37,835	46	492 094,168	9 237 213,419		283,527		
94	E13 - E15	192 01'11"	12 01'11"	SW	369,576	-76,964		-361,473	E15	492 122,736	9 236 736,377		299,771		
95	E13 - 1BPM	307 15'51"	52 44'09"	NW	114,014	-90,738		69,034	1BPM	492 108,962	9 237 166,884		279,003		
96	E13 - 2	307 36'16"	52 23'44"	NW	112,823	-89,383		68,845	2	492 110,317	9 237 166,695		277,121		
97	E13 - 3R	241 25'26"	61 25'26"	SW	130,174	-114,317		-62,266	3R	492 085,383	9 237 035,584		280,277		
98	E13 - 4	290 37'36"	69 22'24"	NW	184,964	-173,107		65,159	4	492 026,593	9 237 163,009		294,868		
99	E13 - 5	270 54'36"	89 05'24"	NW	197,595	-197,570		3,138	5	492 002,130	9 237 100,988		296,125		
100	E13 - 6	250 36'41"	70 36'41"	SW	184,701	-174,226		-61,316	6	492 025,474	9 237 036,534		285,010		

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado

Proprietario

Data 05/08/96

IN DICE	ALINHAMEN EST P V	AZIMUTE COMPENSADO	R U M O QD	DISTANCIA HORIZONTAL	LONG PARC X (E+,W-)	LAT PARC Y (N+,-)	P V	COORD E (X) TOT COMPENS	COORD N (Y) TOT COMPENS	COORD (Z) DO PONTO
101	E13 - 7	249 21'06"	69 21'06" SW	225,816	-211,310	-79,630	7	491 988,390	9 237 018,220	286,615
102	E13 - 8	258 19'16"	78 19'16" SW	261,067	-255,662	-52,847	8	491 944,038	9 237 045,003	293,291
103	E13 - 9	246 58'56"	66 58'56" SW	289,229	-266,202	-113,093	9	491 933,498	9 236 984,757	296,618
104	E13 - 10	241 37'06"	61 37'06" SW	292,883	-257,679	-139,220	10	491 942,021	9 236 958,630	288,950
105	E13 - 11	242 43'26"	62 43'26" SW	328,054	-291,577	-150,340	11	491 908,123	9 236 947,510	295,971
106	E13 - 12	237 49'01"	57 49'01" SW	352,813	-298,604	-187,917	12	491 901,096	9 236 909,933	298,102
107	E13 - 13	236 46'36"	56 46'36" SW	319,942	-267,645	-175,297	13	491 932,055	9 236 922,553	292,430
108	E13 - 14	229 37'11"	49 37'11" SW	407,497	-310,415	-264,000	14	491 889,285	9 236 833,850	294,804
109	E13 - 15	226 04'01"	46 04'01" SW	389,186	-280,273	-270,024	15	491 919,427	9 236 827,826	289,982
110	E13 - 16	223 10'06"	43 10'06" SW	464,493	-317,780	-338,777	16	491 881,920	9 236 759,073	303,493
111	E13 - 17	220 54'51"	40 54'51" SW	427,646	-280,077	-323,168	17	491 919,623	9 236 774,682	296,195
112	E13 - 18CD	222 47'51"	42 47'51" SW	490,908	-333,527	-360,208	18CD	491 866,173	9 236 737,642	303,430
113	E13 - 19	218 58'51"	38 58'51" SW	472,344	-297,133	-367,180	19	491 902,567	9 236 730,670	295,591
114	E13 - 20	219 17'01"	39 17'01" SW	544,969	-345,052	-421,818	20	491 854,648	9 236 676,032	296,515
115	E13 - 21	224 40'46"	44 40'46" SW	537,920	-378,233	-382,489	21	491 821,467	9 236 715,361	311,416
116	E13 - 22	215 12'41"	35 12'41" SW	848,498	-489,239	-693,249	22	491 710,461	9 236 404,601	292,938
117	E13 - 23	217 32'06"	37 32'06" SW	862,454	-525,447	-683,910	23	491 674,253	9 236 413,940	296,350
118	E13 - 24	225 02'51"	45 02'51" SW	170,157	-120,419	-120,219	24	492 079,281	9 236 977,631	282,032
119	E13 - 25	218 36'06"	38 36'06" SW	214,114	-133,586	-167,331	25	492 066,114	9 236 930,519	287,183
120	E13 - 26	220 29'11"	40 29'11" SW	270,650	-175,724	-205,846	26	492 023,976	9 236 892,004	285,282
121	E13 - E14	219 56'11"	39 56'11" SW	908,473	-583,182	-696,579	E14	491 616,518	9 236 401,271	306,307
122	E13 - 27	209 20'01"	29 20'01" SW	346,264	-169,633	-301,867	27	492 030,067	9 236 795,983	295,147
123	E13 - 28	199 48'56"	19 48'56" SW	364,316	-123,501	-342,744	28	492 076,199	9 236 755,106	303,554
124	E13 - 29	189 54'36"	9 54'36" SW	352,618	-60,686	-347,357	29	492 139,014	9 236 750,493	294,671
125	E13 - 30	193 19'21"	13 19'21" SW	148,228	-34,156	-144,239	30	492 165,544	9 236 953,611	291,873
126	E13 - 31	158 32'56"	21 27'04" SE	85,976	31,442	-80,020	31	492 231,142	9 237 017,830	291,145
127	E13 - 32GR	201 38'46"	21 38'46" SW	111,109	-40,985	-103,274	32GR	492 158,715	9 236 994,576	285,315
128	E13 - 33	153 14'11"	26 45'49" SE	203,828	91,786	-181,992	33	492 291,486	9 236 915,858	296,209
129	E15 - PF	134 10'01"	45 49'59" SE	109,519	78,559	-76,308	PF	492 201,295	9 236 660,069	288,047
130	E15 - 1	117 59'51"	62 00'09" SE	36,967	32,641	-17,354	1	492 155,377	9 236 719,023	292,464
131	E15 - 2	119 12'41"	60 47'19" SE	108,522	94,721	-52,962	2	492 217,457	9 236 683,415	288,911
132	E15 - 3R	119 50'36"	60 09'24" SE	59,616	51,710	-29,667	3R	492 174,446	9 236 706,710	287,991
133	E15 - 4	109 11'21"	70 48'39" SE	121,046	114,321	-39,786	4	492 237,057	9 236 696,591	296,109
134	E15 - 5	130 47'26"	49 12'34" SE	215,768	163,359	-140,960	5	492 286,095	9 236 595,417	296,972
135	E15 - 6	122 48'11"	57 11'49" SE	200,232	168,303	-108,476	6	492 291,039	9 236 627,901	298,819
136	E15 - 7	133 22'11"	46 37'49" SE	260,157	189,118	-178,651	7	492 311,854	9 236 557,726	297,974
137	E15 - 8	133 16'41"	46 43'19" SE	325,809	237,200	-223,355	8	492 359,936	9 236 513,022	298,968
138	E15 - 9PA	141 35'16"	38 24'44" SE	274,708	170,680	-215,250	9PA	492 293,416	9 236 521,127	294,404
139	E15 - 10PA	146 37'56"	33 22'04" SE	248,717	136,797	-207,718	10PA	492 259,533	9 236 528,659	294,251
140	E15 - 11	145 14'41"	34 45'19" SE	372,051	212,096	-305,675	11	492 334,832	9 236 430,702	292,692
141	E15 - 12	146 27'41"	33 32'19" SE	424,130	234,331	-353,518	12	492 357,067	9 236 382,859	295,246
142	E15 - 13	145 38'11"	34 21'49" SE	490,284	276,737	-404,716	13	492 399,473	9 236 331,661	297,890
143	E15 - 14R	153 37'46"	26 22'14" SE	585,843	260,217	-524,880	14R	492 382,953	9 236 211,497	299,828
144	E15 - 15	151 21'06"	28 38'54" SE	591,531	283,599	-519,115	15	492 406,335	9 236 217,262	305,979
145	E15 - 16	153 52'36"	26 07'24" SE	580,474	255,586	-521,178	16	492 378,322	9 236 215,199	298,326
146	E15 - 17	147 36'11"	32 23'49" SE	227,190	121,724	-191,829	17	492 244,460	9 236 544,548	295,403
147	E15 - 18	160 04'41"	19 55'19" SE	161,932	55,177	-152,242	18	492 177,913	9 236 584,135	300,402
148	E15 - 19	171 41'36"	8 18'24" SE	123,638	17,863	-122,341	19	492 140,598	9 236 614,036	300,835
149	E15 - 20	173 13'26"	6 46'34" SE	61,617	7,270	-61,187	20	492 130,006	9 236 675,190	297,656
150	E15 - 21	134 10'01"	45 49'59" SE	109,779	78,746	-76,489	21	492 201,482	9 236 659,888	303,163

TopoEVN 3 0 - Sistema para processamento de Levantamentos Topograficos Arquivo : BACIA3 25/10/96 14 59 53

Maior Coord (X) 493 135,761 Menor Coord (X) - 491 298,786 Maior Coord (Y) - 9 237 811,088 Menor Coord (Y) - 9 236 211,497

TopoEVN 3 0 - Sistema para processamento de Levantamentos Topograficos Arquivo BACIA3 25/10/96 14 59 53

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado

Proprietario

Data 04/08/96

IN DICE	ALINHAMENTO		AZIMUTE		DISTANCIA HORIZONTAL	LONG X	PARC (E+, W-)	LAT Y	PARC (N+, S-)	COORD E (X)		COORD N (Y)		COORD (Z) DO PONTO
	EST	P V	COMPENSADO	R U M O						TOT	COMPENS	TOT	COMPENS	
1	NM	ET29	86 53'36"	86 53'36" NE	0,000	0,000		0,000	ET29	491 318,761	9 238 847,937		292,386	
2	ET29	E4	231 28'36"	51 28'36" SW	496,220	-388,220		-309,062	E4	490 930,541	9 238 538,875		284,702	
3	E4	E5	160 28'31"	19 39'29" SE	496,416	166,997		-467,483	E5	491 097,538	9 238 071,392		295,564	
4	E4	1CED	82 07'31"	82 07'31" NE	118,825	117,704		16,280	1CED	491 048,245	9 238 555,155		272,065	
5	E4	2CED	320 03'16"	39 56'44" NW	169,461	-108,804		129,918	2CED	490 821,737	9 238 668,793		290,378	
6	E4	3LR	95 58'46"	84 01'14" SE	152,027	151,200		-15,837	3LR	491 081,741	9 238 523,038		268,642	
7	E4	4C	21 41'11"	21 41'11" NE	39,589	14,629		36,787	4C	490 945,170	9 238 575,662		283,002	
8	E4	5	76 23'56"	76 23'56" NE	201,566	195,913		47,400	5	491 126,454	9 238 586,275		272,181	
9	E4	6CED	75 31'51"	75 31'51" NE	213,623	206,847		53,376	6CED	491 137,388	9 238 592,251		272,806	
10	E4	7	87 31'36"	87 31'36" NE	244,536	244,308		10,553	7	491 174,849	9 238 549,428		272,287	
11	E4	8	71 03'06"	71 03'06" NE	318,181	300,939		103,318	8	491 231,480	9 238 642,193		271,686	
12	E4	9	82 39'56"	82 39'56" NE	365,190	362,202		46,620	9	491 292,743	9 238 585,495		271,196	
13	E4	10	85 32'51"	85 32'51" NE	443,261	441,923		34,412	10	491 372,464	9 238 573,287		271,302	
14	E4	11	58 24'36"	58 24'36" NE	300,009	255,553		157,156	11	491 186,094	9 238 696,031		272,508	
15	E4	12	86 13'01"	86 13'01" NE	534,010	532,846		35,233	12	491 463,387	9 238 574,108		271,059	
16	E4	13	87 10'36"	87 10'36" NE	303,365	302,997		14,943	13	491 233,538	9 238 553,818		277,833	
17	E4	14CD	102 30'36"	77 29'24" SE	402,956	393,389		-87,284	14CD	491 323,930	9 238 451,591		271,695	
18	E4	15	111 42'36"	68 17'24" SE	546,704	507,925		-202,231	15	491 438,466	9 238 336,644		280,842	
19	E4	16	102 58'16"	77 01'44" SE	236,468	230,434		-53,078	16	491 160,975	9 238 485,797		272,683	
20	E4	17R	113 46'26"	66 13'34" SE	386,873	354,044		-155,959	17R	491 284,585	9 238 382,916		271,519	
21	E4	18R	104 53'51"	75 06'09" SE	156,362	151,106		-40,199	18R	491 081,647	9 238 498,676		271,465	
22	E4	19	119 50'31"	60 09'29" SE	301,175	261,240		-149,867	19	491 191,781	9 238 389,008		278,852	
23	E4	20	112 10'16"	67 49'44" SE	168,140	155,708		-63,452	20	491 086,249	9 238 475,423		271,462	
24	E4	21C	131 28'56"	48 31'04" SE	296,952	222,465		-196,697	21C	491 153,006	9 238 342,178		284,266	
25	E4	22R	127 33'31"	52 26'29" SE	195,615	155,070		-119,242	22R	491 085,611	9 238 419,633		272,017	
26	E4	23CD	113 51'01"	66 08'59" SE	195,659	178,951		-79,114	23CD	491 109,492	9 238 459,761		272,733	
27	E4	24	144 47'46"	35 12'14" SE	74,125	42,732		-60,568	24	490 973,273	9 238 478,307		272,136	
28	E4	25	125 44'16"	54 15'44" SE	125,237	101,655		-73,148	25	491 032,196	9 238 465,727		272,567	
29	E4	26CD	156 44'36"	23 15'24" SE	159,773	63,086		-146,791	26CD	490 993,627	9 238 392,084		271,669	
30	E4	27	160 50'01"	19 09'59" SE	73,891	24,259		-69,795	27	490 954,800	9 238 469,080		272,442	
31	E4	28	152 34'41"	27 25'19" SE	204,525	94,192		-181,544	28	491 024,733	9 238 357,331		272,298	
32	E4	29CD	161 58'56"	18 01'04" SE	221,981	68,661		-211,095	29CD	490 999,202	9 238 327,780		272,857	
33	E4	29	161 00'26"	18 59'34" SE	314,739	102,431		-297,604	29	491 032,972	9 238 241,271		277,864	
34	E4	30CD	144 50'36"	35 09'24" SE	379,973	218,794		-310,659	30CD	491 149,335	9 238 228,216		288,528	
35	E4	31	156 34'31"	23 25'29" SE	386,470	153,639		-354,618	31	491 084,180	9 238 184,257		285,424	
36	E4	32C	148 23'21"	31 36'39" SE	390,177	204,510		-332,286	32C	491 135,051	9 238 206,589		290,306	
37	E4	33C	159 07'56"	20 52'04" SE	464,178	165,346		-433,730	33C	491 095,887	9 238 105,145		292,748	
38	E4	34C	167 04'46"	12 55'14" SE	435,522	97,383		-424,495	34C	491 027,924	9 238 114,380		291,662	
39	E4	35C	164 18'31"	15 41'29" SE	404,523	109,406		-389,447	35C	491 039,947	9 238 149,428		286,254	
40	E4	36CD	167 54'36"	12 05'24" SE	445,516	93,312		-435,634	36CD	491 023,853	9 238 103,241		292,589	
41	E4	37	169 45'06"	10 14'54" SE	378,790	67,392		-372,747	37	490 997,933	9 238 166,128		282,653	
42	E4	38	176 27'36"	3 32'24" SE	275,615	17,018		-275,089	38	490 947,559	9 238 263,786		272,760	
43	E4	39R	177 03'31"	2 56'29" SE	220,517	11,316		-220,226	39R	490 941,857	9 238 318,649		269,287	
44	E4	40CD	180 44'11"	0 44'11" SW	162,771	-2,092		-162,758	40CD	490 928,449	9 238 376,117		272,355	
45	E4	41CD	202 40'21"	22 40'21" SW	88,995	-34,304		-82,118	41CD	490 896,237	9 238 456,757		273,122	
46	E4	42	341 19'56"	61 19'56" SW	110,724	-97,151		-53,118	42	490 833,390	9 238 485,757		281,650	
47	E4	43	292.45'46"	67 14'14" NW	28,320	-26,114		10,957	43	490 904,427	9 238 549,832		280,433	
48	E4	44	261 28'16"	81 28'16" SW	68,374	-67,618		-10,140	44	490 862,923	9 238 528,735		276,265	
49	E4	45	271 12'41"	88 47'19" NW	151,174	-151,140		3,196	45	490 779,401	9 238 542,071		281,942	
50	E4	46	275 04'11"	84 58'49" NW	193,624	-192,867		17,110	46	490 737,674	9 238 555,985		291,863	

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario										Data 04/08/96		
IN DICE	ALINHAMEN EST P V	AZIMUTE		R U M O QD	DISTANCIA		LONG PARC X (E+,W-)	LAT PARC Y (N+,S-)	P V	COORD E (X)		COORD N (Y)		COORD (Z)
		COMPENSADO			HORIZONTAL					TOT	COMPENS	TOT	COMPENS	
51	E4 - 47	267	18'16"	87	18'16"	SW	182,101	-181,900	-8,564	47	490 748,641	9 238 530,311	288,095	
52	E4 - 48	284	23'41"	75	36'19"	NW	240,112	-232,574	59,692	48	490 697,967	9 238 598,567	295,559	
53	E4 - 49	284	04'21"	75	55'39"	NW	271,420	-263,274	65,996	49	490 667,267	9 238 604,871	299,160	
54	E4 - E6	220	14'26"	40	14'26"	SW	595,089	-384,426	-454,255	E6	490 546,115	9 238 084,620	285,503	
55	E4 - 50	337	09'36"	22	50'24"	NW	102,524	-39,404	93,555	50	490 891,137	9 238 632,430	279,777	
56	E4 - 51	286	22'01"	73	37'89"	NW	176,521	-169,368	49,741	51	490 761,173	9 238 588,616	285,682	
57	E4 - 52	262	56'36"	82	56'36"	SW	195,939	-194,514	-24,079	52	490 736,027	9 238 514,796	287,320	
58	E4 - 53	249	27'26"	69	27'26"	SW	135,769	-127,136	-47,642	53	490 803,405	9 238 491,233	284,814	
59	E4 - 54	256	53'41"	76	53'41"	SW	166,775	-162,431	-37,815	54	490 768,110	9 238 501,060	284,565	
60	E4 - 55CD	228	13'31"	48	13'31"	SW	153,305	-114,330	-102,132	55CD	490 816,211	9 238 436,743	277,843	
61	E4 - 56	227	19'46"	47	19'46"	SW	225,471	-165,780	-152,820	56	490 764,761	9 238 386,055	274,086	
62	E4 - 57	206	07'46"	26	07'46"	SW	182,565	-80,402	-163,907	57	490 850,139	9 238 374,968	273,160	
63	E4 - 58CD	228	23'16"	48	23'16"	SW	274,290	-205,075	-182,152	58CD	490 725,466	9 238 356,723	274,146	
64	E4 - 59	204	45'46"	24	45'46"	SW	246,580	-103,283	-223,907	59	490 827,258	9 238 314,968	272,710	
65	E4 - 60CD	212	36'06"	32	36'06"	SW	311,465	-167,816	-262,390	60CD	490 762,725	9 238 276,485	273,212	
66	E4 - 61CD	211	04'41"	31	04'41"	SW	340,987	-176,019	-292,043	61CD	490 754,522	9 238 246,832	273,022	
67	E4 - 62CD	224	08'31"	44	08'31"	SW	345,884	-240,887	-248,212	62CD	490 689,654	9 238 290,663	273,149	
68	E4 - 63	206	50'31"	26	50'31"	SW	423,426	-191,190	-377,804	63	490 739,351	9 238 161,071	279,213	
69	E4 - 64C	197	34'46"	17	34'46"	SW	408,008	-123,230	-388,954	64C	490 807,311	9 238 149,921	281,615	
70	E4 - 64D	202	51'51"	22	51'51"	SW	488,891	-189,958	-450,478	64D	490 740,583	9 238 088,397	291,074	
71	E4 - 65	219	22'11"	39	22'11"	SW	515,137	-326,763	-398,236	65	490 603,778	9 238 140,639	273,931	
72	E4 - 66	208	15'36"	28	15'36"	SW	552,065	-261,388	-486,263	66	490 669,153	9 238 052,612	290,843	
73	E4 - 67C	218	38'31"	38	38'31"	SW	604,245	-377,322	-471,954	67C	490 553,219	9 238 066,921	287,041	
74	E4 - 68	207	50'26"	27	50'26"	SW	678,830	-317,022	-600,256	68	490 613,519	9 237 938,619	293,736	
75	E4 - 69	212	33'31"	32	33'31"	SW	597,822	-321,725	-503,869	69	490 608,816	9 238 035,006	289,769	
76	E4 - 70PA	193	40'26"	13	40'26"	SW	459,630	-108,654	-446,603	70PA	490 821,887	9 238 092,272	281,217	
77	E4 - 71PA	185	30'36"	5	30'36"	SW	446,357	-42,859	-444,295	71PA	490 887,682	9 238 094,580	279,845	
78	E4 - 72CD	181	40'31"	1	40'31"	SW	402,833	-11,777	-402,661	72CD	490 918,764	9 238 136,214	282,236	
79	E4 - 73	193	59'46"	13	59'46"	SW	407,734	-98,613	-395,629	73	490 831,928	9 238 143,246	278,620	
80	E4 - 74CD	180	05'26"	0	05'26"	SW	370,144	-0,585	-370,144	74CD	490 929,956	9 238 168,731	278,536	
81	E4 - 75	195	45'31"	15	45'31"	SW	322,901	-87,695	-310,765	75	490 842,846	9 238 228,110	272,465	
82	E5 - E7	140	03'26"	39	56'34"	SE	339,519	217,979	-260,304	E7	491 315,517	9 237 811,088	289,139	
83	E5 - 1	244	19'56"	64	19'56"	SW	37,737	-34,013	-16,346	1	491 063,525	9 238 055,046	296,284	
84	E5 - 2	77	46'21"	77	46'21"	NE	31,389	30,677	6,648	2	491 128,215	9 238 078,040	293,030	
85	E7 - E8	212	43'46"	32	43'46"	SW	837,342	-452,728	-704,400	E8	490 862,789	9 237 106,688	301,248	
86	E7 - 1	338	35'26"	21	24'34"	NW	148,889	-54,349	138,615	1	491 261,168	9 237 949,703	272,940	
87	E7 - 2	4	45'26"	4	45'26"	NE	76,227	6,322	75,964	2	491 321,839	9 237 887,052	273,510	
88	E7 - 3	349	54'26"	10	05'34"	NW	188,325	-33,003	185,411	3	491 282,514	9 237 996,499	272,937	
89	E7 - 4	330	19'46"	29	40'14"	NW	241,875	-119,731	210,162	4	491 195,786	9 238 021,250	273,384	
90	E7 - 5CD	353	59'36"	6	08'24"	NW	328,362	-34,361	326,559	5CD	491 281,156	9 238 137,647	273,959	
91	E7 - 6R	341	25'01"	18	34'59"	NW	353,903	-112,781	335,451	6R	491 202,736	9 238 146,539	272,279	
92	E7 - 7R	355	31'01"	4	28'59"	NW	432,312	-33,791	430,989	7R	491 281,726	9 238 242,077	270,992	
93	E7 - 8	346	22'36"	13	37'24"	NW	524,938	-123,643	510,169	8	491 191,874	9 238 321,257	277,346	
94	E7 - 9RCD	356	25'46"	3	34'14"	NW	532,116	-33,139	531,083	9RCD	491 282,378	9 238 342,171	271,073	
95	E7 - 10	9	03'46"	9	03'46"	NE	438,051	69,000	432,583	10	491 384,517	9 238 243,671	284,998	
96	E7 - 11	16	48'26"	16	48'26"	NE	426,302	123,266	408,092	11	491 438,783	9 238 219,180	290,598	
97	E7 - 12	18	01'41"	18	01'41"	NE	346,253	107,159	329,254	12	491 422,676	9 238 140,342	289,572	
98	E7 - 13	8	51'51"	8	51'51"	NE	342,725	52,811	338,632	13	491 368,328	9 238 149,720	283,718	
99	E7 - 14	25	01'51"	25	01'51"	NE	254,839	107,824	230,905	14	491 423,341	9 238 041,993	286,463	
100	E7 - 15	9	52'26"	9	52'26"	NE	210,535	36,103	207,416	15	491 351,620	9 238 018,504	281,980	

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario										Data 04/08/96	
IN DICE	ALINHAMENTO EST P V	AZIMUTE COMPENSADO		R U M O QD		DISTANCIA HORIZONTAL	LONG PARC X (E+,W-)	LAT PARC Y (N+,S-)	COORD E (X) TOT	COORD N (Y) COMPENS	COORD (Z) DO PONTO		
101	E7 - 16	34 18'51"	34 18'51"	NE		162,039	91,346	133,838	16	491 406,863	9 237 944,926	290,315	
102	E7 - 17	22 11'21"	22 11'21"	NE		142,132	53,678	131,606	17	491 369,195	9 237 942,694	285,827	
103	E7 - 18R	43 51'11"	43 51'11"	NE		124,596	86,322	89,849	18R	491 401,839	9 237 900,937	272,144	
104	E7 - 19	40 26'41"	40 26'41"	NE		60,906	39,511	46,351	19	491 355,028	9 237 857,439	274,438	
105	E7 - 20R	69 14'51"	69 14'51"	NE		85,985	80,406	30,467	20R	491 395,923	9 237 841,555	273,270	
106	E7 - 21R	51 08'21"	51 08'21"	NE		141,373	110,083	88,702	21R	491 425,600	9 237 899,790	273,012	
107	E7 - 22C	75 27'06"	75 27'06"	NE		179,764	174,000	45,156	22C	491 489,517	9 237 856,244	279,877	
108	E7 - 23C	83 09'41"	83 09'41"	NE		196,667	195,268	23,418	23C	491 510,785	9 237 834,506	282,344	
109	E7 - 24R	63 18'01"	63 18'01"	NE		279,936	250,087	125,779	24R	491 565,604	9 237 936,867	273,053	
110	E7 - 25CD	78 56'41"	78 56'41"	NE		354,452	347,874	67,968	25CD	491 663,391	9 237 879,056	282,911	
111	E7 - 26	77 22'21"	77 22'21"	NE		432,762	422,294	94,607	26	491 737,811	9 237 905,695	286,571	
112	E7 - 27CD	73 48'11"	73 48'11"	NE		555,972	533,905	155,083	27CD	491 849,422	9 237 966,171	285,656	
113	E7 - 28	63 25'56"	63 25'56"	NE		491,376	439,490	219,771	28	491 755,007	9 238 030,859	280,203	
114	E7 - 29	57 48'01"	57 48'01"	NE		475,169	402,086	253,204	29	491 717,603	9 238 064,292	280,002	
115	E7 - 30	83 43'11"	83 43'11"	NE		626,424	622,665	68,526	30	491 938,182	9 237 879,614	294,325	
116	E7 - 31	88 23'56"	88 23'56"	NE		592,088	591,857	16,544	31	491 907,374	9 237 827,632	295,836	
117	E7 - 32	89 44'41"	89 44'41"	NE		674,313	674,306	3,004	32	491 989,823	9 237 814,092	303,922	
118	E7 - 33CD	97 34'56"	92 25'04"	SE		557,955	553,077	-73,622	33CD	491 868,594	9 237 737,466	304,887	
119	E7 - 34	93 10'21"	86 49'39"	SE		485,861	485,116	-26,889	34	491 800,633	9 237 784,199	294,237	
120	E7 - 35	99 42'21"	80 17'39"	SE		457,076	450,534	-77,058	35	491 766,051	9 237 734,030	292,402	
121	E7 - 36	92 53'41"	87 06'19"	SE		415,735	415,205	-20,995	36	491 730,722	9 237 790,093	288,039	
122	E7 - 37	96 19'26"	83 40'34"	SE		261,727	260,134	-28,829	37	491 575,651	9 237 782,259	281,910	
123	E7 - 38	96 25'16"	83 34'44"	SE		192,369	191,162	-21,514	38	491 506,679	9 237 789,574	275,814	
124	E7 - 39R	89 35'56"	89 35'56"	NE		106,485	106,482	0,745	39R	491 421,999	9 237 811,833	272,990	
125	E7 - 40	87 38'16"	87 38'16"	NE		55,177	55,130	2,274	40	491 370,647	9 237 813,362	277,461	
126	E7 - 41	140 39'46"	39 20'14"	SE		65,054	41,237	-50,315	41	491 356,754	9 237 760,773	278,747	
127	E7 - 42	109 17'36"	70 42'24"	SE		109,392	103,248	-36,144	42	491 418,765	9 237 774,944	273,677	
128	E7 - 43CD	143 31'41"	36 28'19"	SE		147,549	87,707	-118,651	43CD	491 403,224	9 237 692,437	278,112	
129	E7 - 44	119 52'36"	60 07'24"	SE		164,192	142,371	-81,790	44	491 457,888	9 237 729,298	273,992	
130	E7 - 45	138 31'21"	41 28'39"	SE		190,171	125,955	-142,479	45	491 441,472	9 237 668,609	273,953	
131	E7 - 46	118 03'16"	61 56'44"	SE		193,616	170,866	-91,060	46	491 486,383	9 237 720,028	273,938	
132	E7 - 47CD	134 31'41"	45 28'19"	SE		273,388	194,900	-191,716	47CD	491 510,417	9 237 619,372	313,354	
133	E7 - 48R	113 49'21"	66 10'39"	SE		294,880	269,757	-119,103	48R	491 585,274	9 237 691,985	274,666	
134	E7 - 49	127 16'11"	52 43'49"	SE		279,801	222,664	-169,439	49	491 538,181	9 237 641,649	281,286	
135	E7 - 50	113 32'36"	66 27'24"	SE		348,917	319,873	-139,372	50	491 635,390	9 237 671,716	281,381	
136	E7 - 51	115 41'31"	64 18'29"	SE		416,678	375,484	-180,643	51	491 691,001	9 237 630,445	295,034	
137	E7 - 52	123 04'31"	56 55'29"	SE		409,835	343,423	-223,664	52	491 658,940	9 237 587,424	289,661	
138	E7 - 53	116 59'26"	63 00'34"	SE		475,001	423,265	-215,576	53	491 738,782	9 237 595,512	297,656	
139	E7 - 54	146 26'06"	33 33'54"	SE		336,479	186,033	-280,374	54	491 501,550	9 237 530,714	294,095	
140	E7 - 55	141 41'11"	38 18'49"	SE		272,349	168,847	-213,693	55	491 484,364	9 237 597,395	290,845	
141	E7 - 56	166 57'11"	13 02'49"	SE		282,042	63,671	-274,761	56	491 379,188	9 237 536,327	302,041	
142	E7 - 57	169 39'21"	10 20'39"	SE		192,013	34,478	-188,892	57	491 349,995	9 237 622,196	290,948	
143	E7 - 58	172 41'56"	7 18'04"	SE		139,474	17,725	-138,343	58	491 333,242	9 237 672,745	292,624	
144	E7 - 59	149 40'01"	30 19'59"	SE		275,035	138,900	-237,384	59	491 454,417	9 237 573,704	288,249	
145	E7 - 60	178 57'46"	1 02'14"	SE		62,674	1,135	-62,664	60	491 316,652	9 237 748,424	286,694	
146	E7 - 61	156 18'41"	23 41'19"	SE		209,371	84,118	-191,730	61	491 399,635	9 237 619,358	288,195	
147	E7 - 62CD	212 04'31"	32 04'31"	SW		47,075	-24,998	-39,889	62CD	491 290,519	9 237 771,199	281,956	
148	E7 - 63	185 37'26"	5 37'26"	SW		74,142	-7,266	-73,785	63	491 308,251	9 237 737,303	287,561	
149	E7 - 64	207 23'16"	27 23'16"	SW		101,877	-46,864	-90,458	64	491 268,653	9 237 720,630	283,383	
150	E7 - 65	185 22'06"	5 22'06"	SW		164,837	-15,422	-164,114	65	491 300,095	9 237 646,974	290,158	

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario										Data 04/08/96			
IN	ALINHAMEN	AZIMUTE		DISTANCIA		LONG	PARC	LAT	PARC	COORD E (X)		COORD N (Y)		COORD (Z)	
DICE	EST P V	COMPENSADO	R U M O	QD	HORIEONTAL	X	(E+,W-)	Y	(N+,-)	P V	TOT	COMPENS	TOT	COMPENS	DO PONTO
151	E7 - 66R	211 03'26"	31 03'26"	SW	242,765	-125,241		-207,965	66R	491 190,276	9 237 603,123			274,761	
152	E7 - 67R	207 36'16"	27 36'16"	SW	275,770	-127,782		-244,378	67R	491 187,735	9 237 566,710			275,579	
153	E7 - 68	195 33'46"	15 33'46"	SW	235,541	-63,194		-226,905	68	491 252,323	9 237 584,183			286,803	
154	E7 - 69	203 43'21"	23 43'21"	SW	342,338	-137,725		-313,412	69	491 177,792	9 237 497,676			283,116	
155	E7 - 70	196 22'46"	16 22'46"	SW	356,374	-100,496		-341,911	70	491 215,021	9 237 469,177			294,204	
156	E7 - 71	206 25'41"	26 25'41"	SW	412,761	-183,709		-369,625	71	491 131,808	9 237 441,463			286,582	
157	E7 - 72	197 29'46"	17 29'46"	SW	416,445	-125,200		-397,179	72	491 190,317	9 237 413,909			299,767	
158	E7 - 73	208 10'21"	28 10'21"	SW	474,097	-223,834		-417,931	73	491 091,683	9 237 393,157			285,964	
159	E7 - 74	194 59'16"	14 59'16"	SW	540,622	-139,812		-522,231	74	491 175,705	9 237 288,857			305,080	
160	E7 - 75	219 06'36"	39 06'36"	SW	360,121	-227,168		-279,431	75	491 088,349	9 237 531,657			295,748	
161	E7 - 76	232 07'36"	52 07'36"	SW	177,522	-140,131		-108,984	76	491 175,386	9 237 702,104			276,936	
162	E7 - 77	226 04'11"	46 04'11"	SW	259,208	-186,678		-179,834	77	491 128,839	9 237 631,254			282,443	
163	E7 - 78CD	227 05'36"	47 05'36"	SW	280,364	-205,356		-190,874	78CD	491 110,161	9 237 620,214			285,921	
164	E7 - 79	222 42'11"	42 42'11"	SW	354,057	-240,121		-260,189	79	491 075,396	9 237 550,899			299,157	
165	E7 - 80	234 24'46"	54 24'46"	SW	396,202	-322,204		-230,566	80	490 993,313	9 237 580,522			300,404	
166	E7 - 81CD	241 11'01"	61 11'01"	SW	387,799	-339,777		-186,921	81CD	490 975,740	9 237 624,167			296,651	
167	E7 - 82	256 55'11"	76 55'11"	SW	370,380	-360,770		-83,823	82	490 954,747	9 237 727,265			297,645	
168	E7 - 83	272 53'21"	87 06'39"	NW	389,220	-388,725		19,618	83	490 926,792	9 237 830,706			291,105	
169	E7 - 84	288 29'21"	71 30'39"	NW	344,908	-327,105		109,379	84	490 988,412	9 237 920,467			294,789	
170	E7 - 85	310 55'41"	49 04'19"	NW	324,870	-245,450		212,826	85	491 070,067	9 238 023,914			294,116	
171	E7 - 86CD	312 46'21"	47 13'39"	NW	243,644	-178,848		165,456	86CD	491 136,669	9 237 976,544			284,378	
172	E7 - 87CD	318 37'16"	41 22'44"	NW	258,391	-170,806		193,885	87CD	491 144,711	9 238 004,973			284,674	
173	E7 - 88	293 17'56"	66 42'04"	NW	159,123	-146,147		62,938	88	491 169,370	9 237 874,026			273,076	
174	E7 - 89	259 50'41"	79 50'41"	SW	165,612	-163,017		-29,200	89	491 152,500	9 237 781,888			283,168	
175	E7 - 90R	230 11'41"	50 11'41"	SW	159,164	-122,274		-101,894	90R	491 193,243	9 237 709,194			274,794	
176	E7 - 91	231 08'01"	51 08'01"	SW	213,601	-166,312		-134,036	91	491 149,205	9 237 677,052			282,001	
177	E8 - E10	147 17'11"	32 42'49"	SE	43,387	23,448		-36,505	E10	490 886,237	9 237 070,183			304,138	
178	E8 - 1GR	331 14'21"	28 45'39"	NW	43,077	-20,727		37,763	1GR	490 842,062	9 237 144,451			289,074	
179	E8 - 2	321 39'16"	38 20'44"	NW	91,427	-56,722		71,705	2	490 806,067	9 237 178,393			296,497	
180	E8 - 3	346 36'36"	13 23'24"	NW	85,336	-19,762		83,016	3	490 843,027	9 237 189,704			286,324	
181	E8 - 4	326 42'26"	33 17'34"	NW	102,389	-56,203		85,585	4	490 806,586	9 237 192,273			300,568	
182	E8 - 5GCD	359 51'06"	0 08'54"	NW	100,362	-0,260		100,362	5GCD	490 862,529	9 237 207,050			287,908	
183	E8 - 6CD	342 47'06"	17 12'54"	NW	131,337	-38,870		125,453	6CD	490 823,919	9 237 232,141			305,857	
184	E8 - 7	1 25'31"	1 25'31"	NE	190,401	4,736		190,342	7	490 867,525	9 237 297,030			305,708	
185	E8 - 8GR	14 18'56"	14 18'56"	NE	166,696	41,218		161,520	8GR	490 904,007	9 237 268,208			289,589	
186	E8 - 9	13 02'36"	13 02'36"	NE	238,184	53,755		232,039	9	490 916,544	9 237 338,727			299,744	
187	E8 - 10	17 43'36"	17 43'36"	NE	305,075	92,888		290,590	10	490 955,677	9 237 397,278			293,786	
188	E8 - 11	16 13'01"	16 13'01"	NE	345,023	96,356		331,295	11	490 959,145	9 237 437,983			300,462	
189	E8 - 12	25 08'31"	25 08'31"	NE	313,920	133,373		284,179	12	490 996,162	9 237 390,867			288,310	
190	E8 - 13	20 27'21"	20 27'21"	NE	366,262	128,003		343,166	13	490 990,792	9 237 449,854			299,173	
191	E8 - 14	28 37'51"	28 37'51"	NE	383,692	183,851		336,776	14	491 046,640	9 237 443,464			287,536	
192	E8 - 15	27 50'01"	27 50'01"	NE	467,302	218,186		413,239	15	491 080,975	9 237 519,927			294,340	
193	E8 - 16	31 31'36"	31 31'36"	NE	462,852	242,023		394,534	16	491 104,812	9 237 501,222			284,152	
194	E8 - 17	250 17'01"	70 17'01"	SW	56,694	-53,370		-19,127	17	490 809,419	9 237 087,561			297,245	
195	E8 - 17	280 34'21"	79 25'39"	NW	201,046	-197,633		36,888	17	490 665,156	9 237 143,576			307,414	
196	E8 - 18	249 20'21"	69 20'21"	SW	133,963	-125,347		-47,267	18	490 737,442	9 237 059,421			297,704	
197	E8 - 19	275 47'21"	84 12'39"	NW	249,571	-248,298		25,174	19	490 614,491	9 237 131,862			307,398	
198	E8 - 20	258 59'06"	78 59'06"	SW	295,914	-290,462		-56,539	20	490 572,327	9 237 050,149			309,483	
199	E8 - 21	250 09'26"	70 09'26"	SW	309,516	-291,139		-105,062	21	490 571,650	9 237 001,626			305,670	
200	E8 - 22	250 16'21"	70 16'21"	SW	185,278	-174,404		-62,540	22	490 688,385	9 237 044,148			301,270	

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario							Data 04/08/96		
IN DICE	ALINHAMEN EST P V	AZIMUTE COMPENSADO		R U M O QD	DISTANCIA HORIZONTAL	LONG PARC X	LAT PARC Y	COORD E (X)	COORD N (Y)	COORD (Z)	
						(E+,W-)	(N+,S-)	P V TOT COMPENS	TOT COMPENS	DO PONTO	
201	E10 - E11	149 36'26"	30 23'34"	SE	98,949	50,061	-85,351	E11 490 936,298	9 236 984,832	304,712	
202	E11 - PF	91 50'41"	88 09'19"	SE	38,048	38,028	-1,225	PF 490 974,326	9 236 983,607	299,704	
203	E11 - 1	153 14'01"	26 45'59"	SE	20,898	9,411	-18,659	1 490 945,709	9 236 966,173	298,719	
204	E11 - 2	178 49'16"	1 10'44"	SE	50,599	1,041	-50,588	2 490 937,339	9 236 934,244	295,955	
205	E11 - 3	159 48'41"	20 11'19"	SE	88,423	30,516	-82,990	3 490 966,814	9 236 901,842	295,412	
206	E11 - 4	178 40'11"	1 19'49"	SE	93,983	2,182	-93,958	4 490 938,480	9 236 890,874	303,134	
207	E11 - 5	157 16'56"	22 43'04"	SE	192,721	74,427	-177,769	5 491 010,725	9 236 807,063	304,146	
208	E11 - 6	180 22'41"	0 22'41"	SW	384,793	-2,539	-384,785	6 490 933,759	9 236 600,047	319,126	
209	E11 - 7	168 34'51"	11 25'09"	SE	314,262	62,219	-308,041	7 490 998,517	9 236 676,791	309,424	
210	E11 - 8CD	167 08'31"	12 51'29"	SE	291,514	64,872	-284,204	8CD 491 001,170	9 236 700,628	303,375	
211	E11 - 9	147 13'06"	32 46'54"	SE	221,505	119,931	-186,228	9 491 056,229	9 236 798,604	305,970	
212	E11 - 10	132 16'56"	47 43'04"	SE	180,337	133,421	-121,328	10 491 069,719	9 236 863,504	303,548	
213	E11 - 11	130 08'16"	49 51'44"	SE	131,774	100,741	-84,945	11 491 037,039	9 236 899,887	299,323	
214	E11 - 12	149 25'46"	30 34'14"	SE	140,641	71,530	-121,092	12 491 007,828	9 236 863,740	298,209	
215	E11 - 13GR	148 55'31"	31 04'29"	SE	128,673	66,415	-110,208	13GR 491 002,713	9 236 874,624	295,325	
216	E11 - 14	127 33'16"	52 26'44"	SE	238,533	189,103	-145,389	14 491 125,401	9 236 839,443	303,760	
217	E11 - 15GR	159 19'46"	20 40'14"	SE	140,118	49,461	-131,098	15GR 490 985,759	9 236 853,734	293,056	
218	E11 - 16	114 52'56"	65 07'04"	SE	300,185	272,320	-126,304	16 491 208,618	9 236 858,528	304,601	
219	E11 - 17	108 31'26"	71 28'34"	SE	359,602	340,971	-114,246	17 491 277,269	9 236 870,586	301,931	
220	E11 - 18GR	109 16'06"	70 43'54"	SE	378,647	357,437	-124,951	18GR 491 293,735	9 236 859,881	298,112	
221	E11 - 19GR	128 17'26"	51 42'34"	SE	100,297	78,721	-62,149	19GR 491 015,019	9 236 922,683	290,768	
222	E11 - 20	102 36'11"	77 23'49"	SE	293,071	286,009	-63,947	20 491 222,307	9 236 920,885	303,077	
223	E11 - 21	98 07'41"	81 52'19"	SE	248,598	246,101	-35,148	21 491 182,399	9 236 949,684	301,454	
224	E11 - 22	100 35'16"	79 24'44"	SE	188,495	185,286	-34,634	22 491 121,584	9 236 950,198	295,484	
225	E11 - 23GR	49 06'41"	49 06'41"	NE	82,833	62,620	54,222	23GR 490 998,918	9 237 039,054	290,043	
226	E11 - 24	56 42'46"	56 42'46"	NE	133,531	111,623	73,287	24 491 047,921	9 237 058,119	304,732	
227	E11 - 25	52 04'51"	52 04'51"	NE	109,400	86,303	67,232	25 491 022,601	9 237 052,064	298,910	
228	E11 - 26CD	49 43'36"	49 43'36"	NE	145,696	111,162	94,183	26CD 491 047,460	9 237 079,015	303,731	
229	E11 - 27	48 55'11"	48 55'11"	NE	38,864	29,295	25,538	27 490 965,593	9 237 010,370	299,247	
Maior Coord (X)		491 989,823	Menor Coord (X)		490 546,115	Maior Coord (Y)		9 238 847,937	Menor Coord (Y)		9 236 600,047

TopoEVN 3 0 - Sistema para processamento de Levantamentos Topograficos Arquivo BACIA2 25/10/96 14 57 03

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario								Data 04/08/96				
IN	ALINHAMEN	AZIMUTE		DISTANCIA		LONG	PARC	LAT	PARC	COORD E (X)		COORD N (Y)		COORD (Z)
DICE	EST P V	COMPENSADO	R U M O QD	HORIZONTAL	X	(R+,W-)	Y	(N+,S-)	P V	TOT	COMPENS	TOT	COMPENS	DO PONTO
1	NM - E4	231 28'36"	51 28'36" SW	0,000	0,000		0,000	E4	490 930,541	9 238 538,875	284,703			
2	E4 - E6	220 14'26"	40 14'26" SW	595,089	-384,426		-454,255	E6	490 546,115	9 238 084,620	285,547			
3	E6 - E17	225 06'26"	45 06'26" SW	371,722	-263,339		-262,355	E17	490 282,776	9 237 822,265	291,192			
4	E6 - 1	39 10'41"	39 10'41" NE	67,104	42,392		52,018	1	490 588,507	9 238 136,638	274,430			
5	E6 - 2R	17 15'16"	17 15'16" NE	99,771	29,594		95,281	2R	490 575,709	9 238 179,901	270,271			
6	E6 - 3R	32 32'56"	32 32'56" NE	188,137	101,221		158,587	3R	490 647,336	9 238 243,207	273,470			
7	E6 - 4	0 27'31"	0 27'31" NE	145,022	1,161		145,017	4	490 547,276	9 238 229,637	272,938			
8	E6 - 5	8 38'21"	8 38'21" NE	274,435	41,223		271,321	5	490 587,338	9 238 355,941	273,200			
9	E6 - 6	16 15'56"	16 15'56" NE	292,519	81,932		280,811	6	490 628,047	9 238 365,431	278,985			
10	E6 - 7CCD	26 30'26"	26 30'26" NE	326,064	146,526		291,788	7CCD	490 691,641	9 238 376,408	276,249			
11	E6 - 8C	23 54'01"	23 54'01" NE	383,848	155,514		350,934	8C	490 701,629	9 238 435,554	282,244			
12	E6 - 9CD	17 36'26"	17 36'26" NE	451,547	136,588		430,393	9CD	490 682,703	9 238 515,013	291,962			
13	E6 - 10	14 46'36"	14 46'36" NE	382,395	97,531		369,748	10	490 643,646	9 238 454,368	293,108			
14	E6 - 11CD	6 44'46"	6 44'46" NE	478,988	56,267		475,672	11CD	490 602,382	9 238 560,292	300,175			
15	E6 - 12	0 43'21"	0 43'21" NE	452,324	5,704		452,288	12	490 551,819	9 238 536,908	297,929			
16	E6 - 13CD	6 59'06"	6 59'06" NE	359,317	43 696		356,650	13CD	490 589,811	9 238 441,270	282,961			
17	E6 - 14	2 51'06"	2 51'06" NE	438,235	21,802		437,692	14	490 567,917	9 238 522,312	294,498			
18	E6 - 15	354 50'01"	5 09'59" NW	525,001	-47,275		522,868	15	490 498,840	9 238 607,488	302,903			
19	E6 - 16	343 32'01"	16 27'59" NW	552,616	-156,641		529,951	16	490 389,474	9 238 614,571	305,473			
20	E6 - 17CD	339 50'21"	20 09'39" NW	528,544	-182,166		496,159	17CD	490 363,949	9 238 580,779	302,997			
21	E6 - 18	352 27'16"	7 32'44" NW	460,794	-60,509		456,804	18	490 485,606	9 238 541,424	288,437			
22	E6 - 19	340 02'21"	19 57'39" NW	439,549	-150,052		413,144	19	490 396,063	9 238 497,764	282,472			
23	E6 - 20C	342 45'46"	17 14'14" NW	348,773	-103,351		333,108	20C	490 442,764	9 238 417,728	290,034			
24	E6 - 21C	350 52'26"	9 07'34" NW	288,658	-45,308		282,042	21C	490 500,807	9 238 366,662	281,872			
25	E6 - 22	346 09'06"	13 50'54" NW	246,082	-58,900		238,929	22	490 487,215	9 238 323,549	273,270			
26	E6 - 23	333 14'11"	26 45'49" NW	254,425	-114,570		227,169	23	490 431,545	9 238 311,789	273,108			
27	E6 - 24CD	310 49'16"	49 10'44" NW	148,717	-112,542		97,216	24CD	490 433,573	9 238 181,836	273,856			
28	E6 - 25	336 30'06"	23 29'54" NW	296,349	-118,161		271,773	25	490 427,954	9 238 356,393	274,629			
29	E6 - 26	318 14'51"	41 45'09" NW	268,939	-179,090		200,636	26	490 367,025	9 238 285,256	273,174			
30	E6 - 27	331 09'46"	28 50'14" NW	370,971	-178,928		324,968	27	490 367,187	9 238 409,588	282,141			
31	E6 - 28	316 13'06"	43 46'54" NW	324,363	-224,431		234,184	28	490 321,684	9 238 318,804	289,173			
32	E6 - 29	327 09'06"	32 50'54" NW	444,899	-241,321		373,764	29	490 304,794	9 238 458,384	284,071			
33	E6 - 30	312 15'06"	47 44'54" NW	384,689	-284,746		258,660	30	490 261,369	9 238 343,280	289,390			
34	E6 - 31	328 57'16"	31 02'44" NW	591,314	-304,952		506,613	31	490 241,163	9 238 591,233	300,231			
35	E6 - 32	319 00'46"	40 59'14" NW	380,937	-249,853		287,553	32	490 296,262	9 238 372,173	293,433			
36	E6 - 33CD	318 30'06"	41 29'54" NW	560,704	-371,521		419,953	33CD	490 174,594	9 238 504,573	305,554			
37	E6 - 34	319 34'46"	40 25'14" NW	50,423	-32,694		38,387	34	490 513,421	9 238 123,007	274,120			
38	E6 - 35	313 52'11"	46 07'49" NW	445,776	-321,368		308,932	35	490 224,747	9 238 393,552	297,245			
39	E6 - 36R	304 26'16"	55 33'44" NW	114,652	-94,558		64,837	36R	490 451,557	9 238 149,457	272,091			
40	E6 - 37	310 48'36"	49 11'24" NW	406,871	-307,953		265,912	37	490 238,162	9 238 350,532	290,151			
41	E6 - 38	301 13'56"	58 46'04" NW	352,521	-301,431		182,785	38	490 244,684	9 238 267,405	274,726			
42	E6 - 39	306 04'41"	53 55'19" NW	329,181	-266,049		193,850	39	490 280,066	9 238 278,470	276,017			
43	E6 - 40	1 40'06"	1 40'06" NE	56,857	1,655		56,833	40	490 547,770	9 238 141,453	273,315			
44	E17 - E18	271 00'21"	88 59'39" NW	358,916	-358,861		6,300	E18	489 923,915	9 237 828,565	287,516			
45	E17 - 1	223 58'21"	43 58'21" SW	8,321	-5,777		-5,988	1	490 276,999	9 237 816,277	291,383			
46	E17 - 2	322 12'46"	37 47'14" NW	55,755	-34,163		44,063	2	490 248,613	9 237 866,328	283,673			
47	E17 - 3	295 06'01"	64 53'59" NW	122,189	-110,650		51,833	3	490 172,126	9 237 874,098	280,452			
48	E17 - 4	317 00'26"	42 59'34" NW	121,049	-82,544		88,540	4	490 200,232	9 237 910,805	278,772			
49	E17 - 5	303 06'46"	56 53'14" NW	262,812	-220,131		143,571	5	490 062,645	9 237 965,836	273,286			
50	E17 - 6	321 01'56"	38 58'04" NW	238,803	-150,179		185,669	6	490 132,597	9 238 007,934	273,255			

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario										Data 04/08/96	
IN DICK	ALINHAMENTO EST P V	AZIMUTE COMPENSADO		R U M O QD	DISTANCIA HORIZONTAL	LONG PARC X	PARC (E+,W-)	LAT PARC Y	PARC (N+,S-)	P V	COORD E (X) TOT	COORD N (Y) COMPENS	COORD (Z) DO PONTO
51	E17 - 7RCD	322	37'31"	37	22'29" NW	308,134	-187,045	244,869	7RCD	9	490 095,731	9 238 067,134	274,621
52	E17 - 8	302	16'36"	57	43'24" NW	389,170	-329,035	207,820	8	489 953,741	9 238 030,085	273,588	
53	E17 - 9R	322	12'56"	37	47'04" NW	359,393	-220,197	284,036	9R	9	490 062,579	9 238 106,301	271,193
54	E17 - 10	321	37'31"	38	22'29" NW	451,912	-280,548	354,284	10	490 002,228	9 238 176,549	274,015	
55	E17 - 11D	305	21'56"	54	38'04" NW	493,751	-402,642	285,779	11D	9	489 880,134	9 238 108,044	274,323
56	E17 - 12C	321	53'21"	38	06'39" NW	527,741	-325,714	415,236	12C	9	489 957,062	9 238 237,501	288,755
57	E17 - 13C	323	32'26"	36	27'34" NW	549,478	-326,529	441,933	13C	9	489 956,247	9 238 264,198	293,157
58	E17 - 14D	306	24'41"	53	35'19" NW	618,700	-497,915	367,247	14D	9	489 784,861	9 238 189,512	274,930
59	E17 - 15C	308	07'41"	51	52'19" NW	709,404	-558,040	438,001	15C	9	489 724,736	9 238 260,266	277,152
60	E17 - 16CD	309	45'26"	50	14'34" NW	573,619	-440,976	366,850	16CD	9	489 841,800	9 238 189,115	275,419
61	E17 - 17CD	309	36'21"	50	23'39" NW	787,783	-606,946	502,214	17CD	9	489 675,830	9 238 324,479	280,076
62	E17 - 18	317	44'31"	42	15'29" NW	576,998	-388,014	427,050	18	489 894,762	9 238 249,315	284,863	
63	E17 - 19	311	12'01"	48	47'59" NW	859,076	-646,379	565,867	19	489 636,397	9 238 388,132	290,654	
64	E17 - 20	318	14'11"	41	45'49" NW	617,442	-411,253	460,549	20	489 871,523	9 238 282,814	294,623	
65	E17 - 21	322	11'21"	37	48'39" NW	663,248	-406,608	523,992	21	489 876,168	9 238 346,257	302,603	
66	E17 - 22	325	41'56"	34	18'04" NW	707,782	-398,865	584,690	22	489 883,911	9 238 406,955	307,566	
67	E17 - 23	328	58'16"	31	01'44" NW	727,742	-375,129	623,608	23	489 907,647	9 238 445,873	305,781	
68	E17 - 24	310	18'21"	49	41'39" NW	932,343	-711,007	603,102	24	489 571,769	9 238 425,367	296,278	
69	E17 - 25	329	42'41"	30	17'19" NW	653,722	-329,709	564,486	25	489 953,067	9 238 386,751	297,021	
70	E17 - 26	311	20'51"	48	39'09" NW	943,546	-708,336	623,329	26	489 574,440	9 238 445,594	297,328	
71	E17 - 27	328	35'26"	31	24'34" NW	838,731	-437,105	715,827	27	489 845,671	9 238 538,092	310,376	
72	E17 - 28	312	00'41"	47	59'19" NW	1 043,269	-775,161	698,237	28	489 507,615	9 238 520,502	316,105	
73	E17 - 29	111	28'06"	68	31'54" SE	61,198	56,952	-22,398	29	490 339,728	9 237 799,867	278,699	
74	E17 - 30	81	36'51"	81	36'51" NE	91,225	90,250	13,304	30	490 373,026	9 237 835,569	273,958	
75	E17 - 31	94	15'26"	85	44'34" SE	127,092	126,741	-9,435	31	490 409,517	9 237 812,830	274,990	
76	E17 - 32CD	76	32'21"	76	32'21" NE	137,495	133,718	32,006	32CD	9	490 416,494	9 237 854,271	273,789
77	E17 - 33CD	58	03'21"	58	03'21" NE	201,626	171,093	106,679	33CD	9	490 453,869	9 237 928,944	275,971
78	E17 - 34CD	89	02'56"	89	02'56" NE	177,411	177,387	2,945	34CD	9	490 460,163	9 237 825,210	283,031
79	E17 - 35	82	12'41"	82	12'41" NE	246,896	244,618	33,459	35	490 527,394	9 237 855,724	289,610	
80	E17 - 36CD	78	08'31"	78	08'31" NE	257,691	252,192	52,952	36CD	9	490 534,968	9 237 875,217	289,518
81	E17 - 37C	83	10'36"	83	10'36" NE	326,458	324,146	38,786	37C	9	490 606,922	9 237 861,051	292,639
82	E17 - 38CD	51	40'21"	51	40'21" NE	319,483	250,628	198,129	38CD	9	490 533,404	9 238 020,394	287,011
83	E17 - 39	59	08'01"	59	08'01" NE	359,022	308,172	184,192	39	490 590,948	9 238 006,457	284,012	
84	E17 - 40CD	109	06'06"	70	53'54" SE	426,471	402,989	-139,561	40CD	9	490 685,765	9 237 682,704	293,450
85	E17 - 41	110	25'01"	69	34'59" SE	473,676	443,919	-165,242	41	490 726,695	9 237 657,023	296,083	
86	E17 - 42	101	59'41"	78	00'19" SE	363,436	355,501	-75,530	42	490 638,277	9 237 746,735	289,658	
87	E17 - 43	110	52'46"	69	07'14" SE	376,174	351,472	-134,069	43	490 634,248	9 237 688,196	285,392	
88	E17 - 44	119	19'36"	60	40'24" SE	431,861	376,514	-211,520	44	490 659,290	9 237 610,745	296,233	
89	E17 - 45	114	53'11"	65	06'49" SE	301,730	273,713	-126,974	45	490 556,489	9 237 695,291	278,970	
90	E17 - 46	123	13'01"	56	46'59" SE	232,329	194,367	-127,272	46	490 477,143	9 237 694,993	276,060	
91	E17 - 47	131	01'11"	48	58'49" SE	159,130	120,061	-104,440	47	490 402,837	9 237 717,825	273,839	
92	E17 - 48	140	26'46"	39	33'14" SE	103,279	65,768	-79,631	48	490 348,544	9 237 742,634	276,422	
93	E17 - 49	124	57'41"	55	02'19" SE	611,554	501,192	-350,435	49	490 783,968	9 237 471,830	304,160	
94	E17 - 50	124	52'31"	55	07'29" SE	561,636	460,765	-321,139	50	490 743,541	9 237 501,126	295,388	
95	E17 - 51	189	30'01"	9	30'01" SW	80,756	-13,329	-79,648	51	490 269,447	9 237 742,617	289,183	
96	E17 - 52	124	34'31"	55	25'29" SE	381,762	314,336	-216,646	52	490 597,112	9 237 605,619	292,375	
97	E17 - 53	154	07'16"	25	52'44" SE	116,038	50,647	-104,402	53	490 333,423	9 237 717,863	278,866	
98	E17 - 54	122	57'11"	57	02'49" SE	331,564	278,221	-180,355	54	490 560,997	9 237 641,910	289,102	
99	E17 - 55	151	25'41"	28	34'19" SE	216,660	103,620	-190,275	55	490 386,396	9 237 631,990	285,092	
100	E17 - 56	130	48'21"	49	11'39" SE	261,430	197,884	-170,844	56	490 480,660	9 237 651,421	276,018	

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Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario										Data 04/08/96			
IN DICE	ALINHAMENTO		AZIMUTE		DISTANCIA		LONG PARC		LAT PARC		COORD E (X)		COORD N (Y)		COORD (Z)
	EST	P V	COMPENSADO	R U M O	Q D	HORIZONTAL	X	(E+,W-)	Y	(N+,S-)	P V	TOT	COMPENS	TOT	COMPENS
101	E17	- 57	156 15'36"	23 44'24"	SE	297,656	119,832	-272,469	57	490 402,608	9 237 549,796	293,815			
102	E17	- 58PA	141 43'11"	38 16'49"	SE	312,117	193,359	-245,009	58PA	490 476,135	9 237 577,256	284,847			
103	E17	- 59PA	130 58'56"	49 01'04"	SE	327,211	247,016	-214,593	59PA	490 529,792	9 237 607,672	283,109			
104	E17	- 60	134 01'51"	45 58'09"	SE	420,060	302,009	-291,961	60	490 584,785	9 237 530,304	280,563			
105	E17	- 61	146 45'46"	33 14'14"	SE	404,674	221,805	-338,473	61	490 504,581	9 237 483,792	289,254			
106	E17	- 62CD	132 47'01"	47 12'59"	SE	513,573	376,924	-348,835	62CD	490 659,700	9 237 473,430	294,782			
107	E17	- 63	143 13'01"	36 46'59"	SE	474,752	284,275	-380,233	63	490 567,051	9 237 442,032	293,744			
108	E17	- 64	138 30'46"	41 29'14"	SE	573,222	379,733	-429,403	64	490 662,509	9 237 392,862	293,325			
109	E17	- 65CD	138 26'31"	41 33'29"	SE	638,603	423,636	-477,856	65CD	490 706,412	9 237 344,409	307,181			
110	E17	- 66	135 10'56"	44 49'04"	SE	614,593	433,199	-435,963	66	490 715,975	9 237 386,302	299,907			
111	E17	- 67	136 05'16"	43 54'44"	SE	666,479	462,240	-480,134	67	490 745,016	9 237 342,131	309,195			
112	E17	- 68	144 10'21"	35 49'39"	SE	668,088	391,063	-541,674	68	490 673,839	9 237 280,591	312,378			
113	E17	- 69	145 29'21"	34 30'39"	SE	642,618	364,083	-529,529	69	490 646,859	9 237 292,736	306,123			
114	E17	- 70	149 49'26"	30 10'34"	SE	599,648	301,419	-518,386	70	490 584,195	9 237 303,879	305,280			
115	E17	- 71	148 29'01"	31 30'59"	SE	498,972	260,834	-425,369	71	490 543,610	9 237 396,896	302,221			
116	E17	- 72	155 08'06"	24 51'54"	SE	463,328	194,821	-420,378	72	490 477,597	9 237 401,887	300,099			
117	E17	- 73	156 11'11"	23 48'49"	SE	521,484	210,556	-477,087	73	490 493,332	9 237 345,178	302,326			
118	E17	- 74	161 41'56"	18 18'04"	SE	370,615	116,377	-351,869	74	490 399,153	9 237 470,396	297,008			
119	E17	- 75	159 03'31"	20 56'29"	SE	316,762	113,215	-295,839	75	490 395,991	9 237 526,426	295,391			
120	E17	- 76	167 51'21"	12 08'39"	SE	329,848	69,223	-321,684	76	490 351,999	9 237 500,581	295,996			
121	E17	- 77	168 25'36"	11 34'24"	SE	263,417	52,847	-258,061	77	490 335,623	9 237 564,204	289,313			
122	E18	- E19	258 50'31"	78 50'31"	SW	729,751	-715,957	-141,219	E19	489 207,958	9 237 687,346	298,355			
123	E18	- 1CD	70 22'06"	70 22'06"	NE	66,009	62,172	22,177	1CD	489 986,087	9 237 850,742	277,496			
124	E18	- 2	130 46'36"	49 13'24"	SE	58,994	44,674	-38,530	2	489 968,589	9 237 790,035	274,738			
125	E18	- 3	132 20'16"	47 39'44"	SE	129,569	95,776	-87,265	3	490 019,691	9 237 741,300	274,945			
126	E18	- 4	108 38'26"	71 21'34"	SE	143,553	136,023	-45,884	4	490 059,938	9 237 782,681	274,794			
127	E18	- 5	125 09'06"	54 50'54"	SE	204,397	167,121	-117,680	5	490 091,036	9 237 710,885	286,533			
128	E18	- 6	108 09'11"	71 50'49"	SE	206,712	196,423	-64,402	6	490 120,338	9 237 764,163	283,988			
129	E18	- 7	125 02'26"	54 57'34"	SE	243,540	199,397	-139,830	7	490 123,312	9 237 688,735	289,207			
130	E18	- 8	108 56'31"	71 03'29"	SE	289,604	273,921	-94,008	8	490 197,836	9 237 734,557	292,881			
131	E18	- 9	134 44'01"	45 15'59"	SE	216,083	153,502	-152,082	9	490 077,417	9 237 676,483	286,304			
132	E18	- 10	138 23'46"	41 36'14"	SE	172,115	114,280	-128,700	10	490 038,195	9 237 699,865	283,047			
133	E18	- 11	141 50'01"	38 09'59"	SE	136,128	84,120	-107,026	11	490 008,035	9 237 721,539	275,271			
134	E18	- 12	156 50'11"	23 09'49"	SE	87,896	34,575	-80,810	12	489 958,490	9 237 747,755	275,112			
135	E18	- 13C	205 54'41"	25 54'41"	SW	58,790	-25,690	-52,880	13C	489 898,225	9 237 775,685	285,077			
136	E18	- 14CD	197 24'26"	17 24'26"	SW	89,621	-26,811	-85,517	14CD	489 897,104	9 237 743,048	284,931			
137	E18	- 15PC	100 12'06"	79 47'54"	SE	151,087	148,698	-26,760	15PC	490 072,613	9 237 801,805	274,326			
138	E18	- 16PC	158 12'01"	21 47'59"	SE	148,357	55,094	-137,748	16PC	489 979,009	9 237 690,817	275,296			
139	E18	- 17	148 40'26"	31 19'34"	SE	196,033	101,919	-167,456	17	490 025,834	9 237 661,109	278,744			
140	E18	- 18	157 37'41"	22 22'19"	SE	258,160	98,260	-238,729	18	490 022,175	9 237 589,836	275,859			
141	E18	- 19	143 12'06"	36 47'54"	SE	290,846	174,217	-232,895	19	490 098,132	9 237 595,670	284,049			
142	E18	- 20	154 41'21"	25 18'39"	SE	332,667	142,225	-300,732	20	490 066,140	9 237 527,833	280,117			
143	E18	- 21	152 39'26"	27 20'34"	SE	412,754	189,583	-366,639	21	490 113,498	9 237 461,926	290,016			
144	E18	- 22	143 12'26"	36 47'34"	SE	398,886	238,902	-319,431	22	490 162,817	9 237 509,134	286,628			
145	E18	- 23	152 54'46"	27 05'14"	SE	473,625	215,663	-421,675	23	490 139,578	9 237 406,890	292,878			
146	E18	- 24	149 08'31"	30 51'29"	SE	560,781	287,632	-481,397	24	490 211,547	9 237 347,168	294,301			
147	E18	- 25	156 17'36"	23 42'24"	SE	582,129	234,047	-533,007	25	490 157,962	9 237 295,558	295,086			
148	E18	- 26	156 42'56"	23 17'04"	SE	737,136	291,387	-677,099	26	490 215,302	9 237 151,466	304,196			
149	E18	- 27	150 54'11"	29 05'49"	SE	688,674	334,894	-601,762	27	490 258,809	9 237 226,803	299,030			
150	E18	- 28CD	165 00'46"	14 59'14"	SE	723,668	187,143	-699,051	28CD	490 111,058	9 237 129,514	301,322			

Imovel - BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario										Data 04/08/96			
IN	ALINHAMENTO	AZIMUTE		DISTANCIA		LONG	PARC	LAT	PARC	COORD E (X)		COORD N (Y)		COORD (Z)	
DICE	EST P V	COMPENSADO	R U M O	QD	HORIZONTAL	X	(E+,W-)	Y	(N+,S-)	P V	TOT	COMPENS	TOT	COMPENS	DO PONTO
151	E18 - 29	160 44'01"	19 15'59"	SE	742,160	244,884	-700,595	29	490 168,799	9 237	127,970			307,904	
152	E18 - 30	167 48'41"	12 11'19"	SE	654,961	138,282	-640,197	30	490 062,197	9 237	188,368			293,210	
153	E18 - 31	163 00'41"	16 59'19"	SE	678,090	198,125	-648,500	31	490 122,040	9 237	180,065			296,341	
154	E18 - 32CD	172 14'31"	7 45'29"	SE	588,184	79,399	-582,800	32CD	490 003,314	9 237	245,765			287,309	
155	E18 - 33	169 32'06"	10 27'54"	SE	537,057	97,548	-528,124	33	490 021,463	9 237	300,441			289,720	
156	E18 - 34CD	170 40'16"	9 19'44"	SE	467,435	75,772	-461,253	34CD	489 999,687	9 237	367,312			283,914	
157	E18 - 35	164 05'41"	15 54'19"	SE	268,525	73,589	-258,245	35	489 997,504	9 237	570,320			276,804	
158	E18 - 36	189 22'21"	9 22'21"	SW	222,834	-36,289	-219,859	36	489 887,626	9 237	608,706			288,083	
159	E18 - 37	198 30'26"	10 30'26"	SW	161,464	-51,253	-153,114	37	489 872,662	9 237	675,451			288,360	
160	E18 - 38	324 06'36"	35 53'24"	NW	33,744	-18,782	27,337	38	489 904,133	9 237	855,902			274,346	
161	E18 - 39	59 55'36"	59 55'36"	NE	63,162	54,659	31,651	39	489 978,574	9 237	860,216			283,043	
162	E18 - 40CD	322 19'41"	37 40'19"	NW	121,655	-74,348	96,293	40CD	489 849,567	9 237	924,858			274,641	
163	E18 - 41R	321 48'41"	38 11'19"	NW	141,272	-87,342	111,037	41R	489 836,573	9 237	939,602			271,477	
164	E18 - 42	23 24'16"	23 24'16"	NE	135,954	54,004	124,768	42	489 977,919	9 237	953,333			276,217	
165	E18 - 43	354 42'06"	5 17'54"	NW	196,194	-18,117	195,356	43	489 905,798	9 238	023,921			274,445	
166	E18 - 44	382 08'46"	57 51'14"	NW	230,941	-195,516	122,879	44	489 728,379	9 237	951,444			275,764	
167	E18 - 45CD	353 23'56"	6 36'04"	NW	227,409	-26,142	225,901	45CD	489 897,773	9 238	054,466			274,632	
168	E18 - 46CD	335 26'41"	24 33'19"	NW	350,742	-145,758	319,021	46CD	489 778,157	9 238	147,586			274,407	
169	E18 - 47C	331 53'46"	28 06'14"	NW	351,699	-165,675	310,232	47C	489 758,240	9 238	138,797			275,594	
170	E18 - 48CD	329 09'06"	30 50'54"	NW	261,403	-134,039	224,422	48CD	489 789,876	9 238	052,987			274,110	
171	E18 - 49CD	330 10'36"	29 49'24"	NW	416,932	-207,352	361,715	49CD	489 716,563	9 238	190,280			289,457	
172	E18 - 50CD	321 06'11"	38 53'49"	NW	385,436	-242,024	299,976	50CD	489 681,891	9 238	128,541			279,331	
173	E18 - 51CD	330 08'41"	29 51'19"	NW	417,537	-207,854	362,124	51CD	489 716,061	9 238	190,689			289,497	
174	E18 - 52	318 48'01"	41 11'59"	NW	450,626	-296,821	339,059	52	489 627,094	9 238	167,624			291,659	
175	E18 - 53	324 59'01"	35 00'59"	NW	510,163	-292,737	417,817	53	489 631,178	9 238	246,382			302,182	
176	E18 - 54	318 36'01"	41 23'59"	NW	508,529	-336,294	381,455	54	489 587,621	9 238	210,020			300,196	
177	E18 - 55	308 20'41"	51 39'19"	NW	654,691	-513,469	406,165	55	489 410,446	9 238	234,730			302,892	
178	E18 - 56	314 48'31"	45 11'29"	NW	718,694	-509,888	506,493	56	489 414,027	9 238	335,058			305,208	
179	E18 - 57CD	298 42'21"	61 17'39"	NW	561,641	-492,614	269,763	57CD	489 431,301	9 238	098,328			302,656	
180	E18 - 58	314 50'01"	45 09'59"	NW	629,910	-446,705	444,118	58	489 477,210	9 238	272,683			296,283	
181	E18 - 59	301 36'01"	58 23'59"	NW	503,384	-428,744	263,768	59	489 495,171	9 238	092,333			297,705	
182	E18 - 60	311 25'06"	48 34'54"	NW	483,519	-362,591	319,873	60	489 561,324	9 238	148,438			281,087	
183	E18 - 61	299 26'56"	60 33'04"	NW	459,807	-400,397	226,063	61	489 523,518	9 238	054,628			288,385	
184	E18 - 62CD	296 36'36"	63 23'24"	NW	428,509	-383,120	191,936	62CD	489 540,795	9 238	020,501			282,388	
185	E18 - 63C	302 34'06"	57 25'54"	NW	369,607	-311,486	198,961	63C	489 612,429	9 238	027,526			276,582	
186	E18 - 64C	298 52'21"	61 07'39"	NW	378,445	-331,403	182,737	64C	489 592,512	9 238	011,302			276,540	
187	E18 - 65PÇ	297 18'41"	62 41'19"	NW	364,374	-323,756	167,184	65PÇ	489 600,159	9 237	995,749			276,465	
188	E18 - 66CB	293 47'31"	66 12'29"	NW	402,289	-368,101	162,290	66CB	489 555,814	9 237	990,855			280,562	
189	E18 - 67D	279 58'26"	80 01'34"	NW	376,819	-371,124	65,265	67D	489 552,791	9 237	893,830			275,984	
190	E18 - 68C	280 01'46"	79 58'14"	NW	412,741	-406,434	71,881	68C	489 517,481	9 237	900,446			278,599	
191	E18 - 69C	273 35'16"	86 24'44"	NW	480,514	-479,572	30,069	69C	489 444,343	9 237	858,634			285,492	
192	E18 - 70	258 48'26"	78 48'26"	SW	210,183	-206,185	-40,799	70	489 717,730	9 237	787,766			275,034	
193	E18 - 71D	258 30'11"	78 30'11"	SW	194,654	-190,748	-38,798	71D	489 733,167	9 237	789,767			275,011	
194	E18 - 72R	262 53'36"	82 53'36"	SW	111,294	-110,439	-13,769	72R	489 813,476	9 237	814,796			271,252	
195	E19 - E21	171 37'36"	8 22'24"	SE	813,779	118,505	-805,104	E21	489 326,463	9 236	882,242			298,652	
196	E19 - 1PÇ	62 14'36"	62 14'36"	NE	532,308	471,057	247,905	1PÇ	489 679,015	9 237	935,251			275,124	
197	E19 - 2CD	62 23'41"	62 23'41"	NE	524,584	464,866	243,081	2CD	489 672,824	9 237	930,427			275,197	
198	E19 - 3CD	67 59'06"	67 59'06"	NE	440,975	408,822	165,299	3CD	489 616,780	9 237	852,645			274,766	
199	E19 - 4CD	70 50'51"	70 50'51"	NE	399,515	377,401	131,074	4CD	489 585,359	9 237	818,420			274,729	
200	E19 - 5CD	60 15'16"	60 15'16"	NE	354,877	308,117	176,072	5CD	489 516,075	9 237	863,418			278,171	

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario										Data 04/08/96			
IN	ALINHAMENT	AZIMUTE		DISTANCIA		LONG	PARC	LAT	PARC	COORD E (X)		COORD N (Y)		COORD (Z)	
DICE	EST P V	COMPENSADO	R U N O	QD	HORIZONTAL	X	(E+,W-)	Y	(N+,S-)	P V	TOT	COMPENS	TOT	COMPENS	DO PONTO
201	E19 - 6MAR	50 09'11"	50 09'11"	NE	293,616	225,426	188,131	6MAR	489 433,384	9 237 875,477	288,489				
202	E19 - 7CD	29 18'16"	29 18'16"	NE	366,323	179,297	319,445	7CD	489 387,255	9 238 006,791	297,139				
203	E19 - 8	37 02'06"	37 02'06"	NE	325,327	195,945	259,698	8	489 403,903	9 237 947,044	294,767				
204	E19 - 9	28 19'11"	28 19'11"	NE	329,399	156,264	289,975	9	489 364,222	9 237 977,321	296,291				
205	E19 - 10	21 56'01"	21 56'01"	NE	316,596	118,259	293,680	10	489 326,217	9 237 981,026	285,225				
206	E19 - 11CD	21 50'16"	21 50'16"	NE	375,552	139,698	348,603	11CD	489 347,656	9 238 035,949	289,338				
207	E19 - 12	9 18'26"	9 18'26"	NE	334,899	54,163	330,490	12	489 262,121	9 238 017,836	298,063				
208	E19 - 13CD	3 00'41"	3 00'41"	NE	435,268	22,867	434,667	13CD	489 230,825	9 238 122,013	304,860				
209	E19 - 14	358 24'51"	1 35'09"	NW	359,102	-9,938	358,964	14	489 198,020	9 238 046,310	298,517				
210	E19 - 15CD	352 44'41"	7 15'19"	NW	331,839	-41,908	329,182	15CD	489 166,050	9 238 016,528	288,994				
211	E19 - 16	352 25'11"	7 34'49"	NW	378,963	-49,991	375,651	16	489 157,967	9 238 062,997	292,528				
212	E19 - 17	347 18'11"	12 49'49"	NW	371,448	-82,485	362,174	17	489 125,473	9 238 049,520	284,726				
213	E19 - 18	353 50'31"	6 09'29"	NW	494,516	-53,047	491,663	18	489 154,911	9 238 179,009	305,497				
214	E19 - 19	346 04'36"	13 55'24"	NW	422,801	-101,736	410,379	19	489 106,222	9 238 097,725	297,491				
215	E19 - 20	350 32'16"	9 27'44"	NW	474,008	-77,926	467,559	20	489 130,032	9 238 154,905	298,351				
216	E19 - 21CD	341 05'51"	18 54'09"	NW	412,526	-133,641	390,279	21CD	489 074,317	9 238 077,625	297,861				
217	E19 - 22	329 23'36"	30 36'24"	NW	413,020	-210,286	355,479	22	488 997,672	9 238 042,825	298,586				
218	E19 - 23	322 56'31"	37 03'29"	NW	330,170	-198,968	263,484	23	489 008,990	9 237 950,830	301,371				
219	E19 - 24	357 38'31"	2 21'29"	NW	263,120	-10,826	262,897	24	489 197,132	9 237 950,243	284,345				
220	E19 - 25	338 44'31"	21 15'29"	NW	144,351	-52,337	134,529	25	489 155,621	9 237 821,875	294,082				
221	E19 - 26	11 54'51"	11 54'51"	NE	217,312	44,863	212,631	26	489 252,821	9 237 899,977	281,481				
222	E19 - 27	15 21'16"	15 21'16"	NE	90,469	23,955	87,240	27	489 231,913	9 237 774,586	292,956				
223	E19 - 28	54 53'06"	54 53'06"	NE	90,862	74,325	52,266	28	489 282,283	9 237 739,612	288,886				
224	E19 - 29	28 17'06"	28 17'06"	NE	281,181	133,240	247,608	29	489 341,198	9 237 934,954	282,372				
225	E19 - 30PA	69 00'11"	69 00'11"	NE	154,728	144,454	55,442	30PA	489 352,412	9 237 742,788	283,002				
226	E19 - 31PA	46 25'51"	46 25'51"	NE	236,318	171,223	162,877	31PA	489 379,181	9 237 850,223	283,069				
227	E19 - 32C	77 09'36"	77 09'36"	NE	142,726	139,157	31,718	32C	489 347,115	9 237 719,064	284,395				
228	E19 - 33CD	59 49'36"	59 49'36"	NE	275,828	238,456	138,636	33CD	489 446,414	9 237 825,982	278,213				
229	E19 - 34CD	73 16'31"	73 16'31"	NE	318,478	305,006	91,650	34CD	489 512,964	9 237 778,996	274,642				
230	E19 - 35R	90 44'16"	89 15'44"	SE	317,623	317,597	-4,090	35R	489 525,555	9 237 683,256	274,973				
231	E19 - 36C	102 46'56"	77 13'04"	SE	54,540	53,188	-12,067	36C	489 261,146	9 237 675,279	292,006				
232	E19 - 37	91 03'56"	88 56'04"	SE	241,551	241,509	-4,492	37	489 449,467	9 237 682,854	275,027				
233	E19 - 38	100 46'46"	79 13'14"	SE	172,738	169,690	-32,307	38	489 377,648	9 237 655,039	276,137				
234	E19 - 39	118 58'26"	61 01'34"	SE	252,449	220,853	-122,289	39	489 428,811	9 237 565,057	275,861				
235	E19 - 40C	89 11'11"	89 11'11"	NE	155,849	155,833	2,213	40C	489 363,791	9 237 689,559	283,164				
236	E19 - 41	119 14'06"	60 45'54"	SE	171,559	149,706	-83,788	41	489 357,664	9 237 603,558	274,985				
237	E19 - 42	88 56'31"	88 56'31"	NE	460,898	460,819	8,511	42	489 668,777	9 237 695,857	274,829				
238	E19 - 43	88 58'46"	88 58'46"	NE	562,045	561,956	10,011	43	489 769,914	9 237 697,357	275,123				
239	E19 - 44	82 39'11"	82 39'11"	NE	620,264	615,172	79,318	44	489 823,130	9 237 766,664	274,849				
240	E19 - 45	89 46'26"	89 46'26"	NE	646,126	646,121	2,550	45	489 854,079	9 237 689,896	287,612				
241	E19 - 46	84 14'46"	84 14'46"	NE	650,874	647,595	65,254	46	489 855,553	9 237 752,600	282,498				
242	E19 - 47	103 42'01"	76 17'59"	SE	631,353	613,390	-149,531	47	489 821,348	9 237 537,815	281,793				
243	E19 - 48C	107 13'51"	72 46'09"	SE	658,173	628,634	-194,965	48C	489 836,592	9 237 492,381	287,729				
244	E19 - 49	111 16'51"	68 43'09"	SE	603,964	562,781	-219,202	49	489 770,739	9 237 468,144	288,320				
245	E19 - 50	103 43'11"	76 16'49"	SE	579,425	562,893	-137,424	50	489 770,851	9 237 549,922	280,044				
246	E19 - 51	110 53'36"	69 06'24"	SE	549,381	513,257	-195,925	51	489 721,215	9 237 491,421	282,483				
247	E19 - 52CD	103 13'16"	76 46'44"	SE	495,930	482,785	-113,424	52CD	489 690,743	9 237 573,922	274,489				
248	E19 - 53	116 20'56"	63 39'04"	SE	491,355	440,307	-218,081	53	489 648,265	9 237 469,265	274,814				
249	E19 - 54	99 27'16"	80 32'44"	SE	424,943	419,171	-69,803	54	489 627,129	9 237 617,543	274,987				
250	E19 - 55CD	119 59'46"	60 00'14"	SE	454,869	393,944	-227,408	55CD	489 601,902	9 237 459,938	275,690				

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Interessado

Proprietario

Data 04/08/96

IN DICE	ALINHAMEN		AZIMUTE		DISTANCIA HORIZONTAL	LONG PARC X	LAT PARC Y	PARC P V	COORD E (X)		COORD N (Y)		COORD (Z) DO PONTO			
	EST	P V	COMPENSADO	R U M O					TOT	COMPENS	TOT	COMPENS				
251	E19	- 56CD	119	12'06"	60	47'54" SE	360,667	314,829	-175,964	56CD	489	522,787	9	237	511,382	275,587
252	E19	- 57R	117	41'31"	62	18'29" SE	309,844	274,354	-143,990	57R	489	482,312	9	237	543,356	275,881
253	E19	- 58R	127	43'46"	52	16'14" SE	414,882	328,134	-253,880	58R	489	536,092	9	237	433,466	275,623
254	E19	- 59	138	18'51"	41	41'09" SE	419,650	279,086	-313,396	59	489	487,044	9	237	373,950	275,237
255	E19	- 60	129	26'46"	50	33'14" SE	502,771	388,251	-319,437	60	489	596,209	9	237	367,909	275,828
256	E19	- 61C	142	08'51"	37	51'09" SE	464,518	285,043	-366,780	61C	489	493,001	9	237	320,566	286,331
257	E19	- 62	128	18'06"	51	41'54" SE	604,591	474,458	-374,727	62	489	682,416	9	237	312,619	285,412
258	E19	- 63R	129	50'26"	50	09'34" SE	378,751	290,816	-242,648	63R	489	498,774	9	237	444,698	275,805
259	E19	- 64CD	57	40'31"	57	40'31" NE	423,781	358,108	226,603	64CD	489	566,066	9	237	913,949	275,999
260	E19	- 65CD	65	11'26"	65	11'26" NE	454,859	412,879	190,860	65CD	489	620,837	9	237	878,206	274,454
261	E19	- 66CD	72	10'01"	72	10'01" NE	496,378	472,528	152,013	66CD	489	680,486	9	237	839,359	274,652
262	E19	- 67CD	162	24'36"	17	35'24" SE	148,963	45,017	-141,998	67CD	489	252,975	9	237	545,348	275,997
263	E19	- 68	129	51'26"	50	08'34" SE	171,616	131,740	-109,985	68	489	339,698	9	237	577,361	275,012
264	E19	- 69CD	147	02'51"	32	57'09" SE	237,503	129,188	-199,294	69CD	489	337,146	9	237	488,052	275,129
265	E19	- 70	135	25'11"	44	34'49" SE	231,664	162,607	-165,007	70	489	370,565	9	237	522,339	275,208
266	E19	- 71R	141	35'06"	38	24'54" SE	329,478	204,722	-258,156	71R	489	412,680	9	237	429,190	272,479
267	E19	- 72	138	47'26"	41	12'34" SE	479,456	315,872	-360,698	72	489	523,830	9	237	326,648	282,322
268	E19	- 73	133	28'46"	46	31'14" SE	585,257	424,675	-402,712	73	489	632,633	9	237	284,634	276,435
269	E19	- 74	132	38'26"	47	21'34" SE	662,227	487,146	-448,590	74	489	695,104	9	237	238,756	288,616
270	E19	- 75	125	48'21"	54	11'39" SE	644,677	522,836	-377,162	75	489	730,794	9	237	310,184	289,171
271	E19	- 76	132	41'51"	47	18'09" SE	727,414	534,609	-493,280	76	489	742,567	9	237	194,066	293,850
272	E19	- 77	137	38'01"	42	21'59" SE	745,962	502,681	-551,155	77	489	710,639	9	237	136,191	293,588
273	E19	- 78CD	141	27'06"	38	32'54" SE	737,144	459,369	-576,508	78CD	489	667,327	9	237	110,838	292,541
274	E19	- 79	144	23'31"	35	36'29" SE	754,133	439,084	-613,124	79	489	647,042	9	237	074,222	294,258
275	E19	- 80	139	33'36"	40	26'24" SE	701,801	455,224	-534,131	80	489	663,182	9	237	153,215	288,181
276	E19	- 81C	146	47'06"	33	12'54" SE	667,434	365,609	-558,389	81C	489	573,567	9	237	128,957	295,950
277	E19	- 82MR	147	06'11"	32	53'49" SE	645,596	350,642	-542,074	82MR	489	558,600	9	237	145,272	296,128
278	E19	- 83	140	59'26"	39	00'34" SE	630,963	397,159	-490,285	83	489	605,117	9	237	197,061	289,431
279	E19	- 84	144	20'01"	35	39'59" SE	548,822	319,999	-445,877	84	489	527,957	9	237	241,469	287,045
280	E19	- 85	153	19'46"	26	40'14" SE	612,971	275,138	-547,752	85	489	483,096	9	237	139,594	291,588
281	E19	- 86C	145	08'31"	34	51'29" SE	481,367	275,123	-394,996	86C	489	483,081	9	237	292,350	286,478
282	E19	- 87C	149	41'11"	30	18'49" SE	512,553	258,782	-442,475	87C	489	466,660	9	237	244,871	286,064
283	E19	- 88CD	149	22'51"	30	37'09" SE	506,610	258,031	-435,974	88CD	489	465,989	9	237	251,372	285,335
284	E19	- 89	150	15'51"	29	44'09" SE	429,372	212,969	-372,833	89	489	420,927	9	237	314,513	282,605
285	E19	- 90R	155	44'56"	24	15'04" SE	420,521	172,723	-383,412	90R	489	380,681	9	237	303,934	275,557
286	E19	- 91R	166	19'11"	13	40'49" SE	422,372	99,893	-410,390	91R	489	307,851	9	237	276,956	272,878
287	E19	- 92	174	09'16"	5	50'44" SE	400,017	40,741	-397,937	92	489	248,699	9	237	289,409	276,184
288	E19	- 93	165	39'11"	14	20'49" SE	523,114	129,624	-506,800	93	489	337,582	9	237	180,546	276,139
289	E19	- 94CD	173	49'06"	6	10'54" SE	515,893	55,552	-512,893	94CD	489	263,510	9	237	174,453	276,325
290	E19	- 95	163	44'51"	16	15'09" SE	562,709	157,486	-540,222	95	489	365,444	9	237	147,124	285,336
291	E19	- 96C	161	09'56"	18	50'04" SE	633,107	204,389	-599,208	96C	489	412,347	9	237	088,138	291,978
292	E19	- 97	171	12'26"	8	47'34" SE	594,984	90,950	-587,992	97	489	298,908	9	237	099,354	286,472
293	E19	- 98CD	156	06'01"	23	53'59" SE	710,567	287,877	-649,640	98CD	489	495,835	9	237	037,706	298,750
294	E19	- 99C	167	54'46"	12	05'14" SE	653,281	136,797	-638,798	99C	489	344,755	9	237	048,548	297,972
295	E19	- 100C	164	57'11"	15	02'49" SE	716,684	186,059	-692,111	100C	489	394,017	9	236	995,235	302,594
296	E19	- 101D	154	38'41"	25	21'19" SE	777,841	333,095	-702,911	101D	489	541,053	9	236	984,435	307,422
297	E19	- 102	172	11'51"	7	48'09" SE	816,031	110,783	-808,476	102	489	318,741	9	236	878,870	297,467
298	E19	- 103D	182	46'46"	2	46'46" SW	674,127	-32,689	-673,334	103D	489	175,269	9	237	014,012	276,845
299	E19	- 104D	188	35'11"	8	35'11" SW	637,233	-95,139	-630,091	104D	489	112,819	9	237	057,255	276,481
300	E19	- 105D	184	22'46"	4	22'46" SW	558,531	-42,650	-556,900	105D	489	165,308	9	237	130,446	276,176

Imovel BARRAGEN ROSARIO Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario										Data 04/08/96						
IN DICE	ALINHAMEN EST P V		AZIMUTE COMPENSADO		DISTANCIA HORIZONTAL		LONG PARC (E+,W-)		LAT PARC (N+,S-)		COORD E (X)		COORD N (Y)		COORD (Z)			
	R	U	M	O	QD	X	Y	P	V	TOT	COMPENS	TOT	COMPENS	DO PONTO				
301	E19	-	106D	190	03'51"	10	03'51"	SW	530,325	-92,675	-522,165	106D	489	115,283	9	237	165,181	276,173
302	E19	-	107R	190	14'46"	10	14'46"	SW	473,911	-84,298	-466,353	107R	489	123,660	9	237	220,993	276,940
303	E19	-	108D	104	19'11"	4	19'11"	SW	429,272	-32,334	-428,053	108D	489	175,624	9	237	259,293	276,649
304	E19	-	109D	104	30'51"	4	30'51"	SW	453,618	-35,702	-452,211	109D	489	172,256	9	237	235,135	276,766
305	E19	-	110	163	18'06"	16	41'54"	SE	28,432	8,169	-27,233	110	489	216,127	9	237	660,113	293,791
306	E19	-	111C	163	30'21"	16	29'39"	SE	100,324	28,484	-96,196	111C	489	236,442	9	237	591,150	281,010
307	E19	-	112	168	05'56"	11	54'04"	SE	205,210	42,319	-200,799	112	489	250,277	9	237	486,547	275,768
308	E19	-	113	153	07'31"	26	52'29"	SE	285,748	129,170	-254,886	113	489	337,128	9	237	432,460	275,891
309	E19	-	114	168	01'51"	11	58'09"	SE	259,483	53,813	-253,842	114	489	261,771	9	237	433,504	276,020
310	E19	-	115	184	38'46"	4	38'46"	SW	218,611	-17,708	-217,893	115	489	190,250	9	237	469,453	275,563
311	E19	-	116	207	44'31"	27	44'31"	SW	189,011	-87,983	-167,285	116	489	119,975	9	237	520,061	281,161
312	E19	-	117	195	13'16"	15	13'16"	SW	153,165	-40,213	-147,792	117	489	167,745	9	237	539,554	278,713
313	E19	-	118D	227	50'31"	47	50'31"	SW	185,122	-137,230	-124,250	118D	489	070,728	9	237	563,096	287,001
314	E19	-	119	217	15'51"	37	15'51"	SW	142,304	-86,164	-113,253	119	489	121,794	9	237	574,093	282,743
315	E19	-	120C	241	35'56"	61	35'56"	SW	186,357	-163,927	-88,639	120C	489	044,031	9	237	598,707	290,521
316	E19	-	121	243	07'51"	63	07'51"	SW	133,251	-118,865	-60,223	121	489	089,093	9	237	627,123	284,603
317	E19	-	122	251	48'01"	71	48'01"	SW	216,839	-205,991	-67,725	122	489	001,967	9	237	619,621	291,590
318	E19	-	123	263	02'01"	83	02'01"	SW	138,796	-137,771	-16,834	123	489	070,187	9	237	670,512	291,578
319	E19	-	124	257	06'06"	77	06'06"	SW	265,542	-258,842	-59,275	124	488	949,116	9	237	628,071	296,192
320	E19	-	125	285	40'06"	74	19'54"	NW	184,870	-178,000	49,928	125	489	029,958	9	237	737,274	298,730
321	E19	-	126	260	58'01"	80	58'01"	SW	342,322	-338,076	-53,746	126	488	869,882	9	237	633,600	299,464
322	E19	-	127	279	03'31"	80	56'29"	NW	107,390	-106,051	16,908	127	489	101,907	9	237	704,254	289,016
323	E19	-	128D	234	15'26"	54	15'26"	SW	238,939	-193,934	-139,576	128D	489	014,024	9	237	547,770	287,164
324	E19	-	129	217	24'21"	37	24'21"	SW	231,452	-140,597	-183,855	129	489	067,361	9	237	503,491	282,866
325	E19	-	130D	187	30'11"	7	30'11"	SW	250,881	-32,760	-248,733	130D	489	175,198	9	237	438,613	275,449
326	E21	-	E22	306	40'41"	53	19'19"	NW	728,341	-584,133	435,051	E22	488	742,330	9	237	317,293	298,590
327	E21	-	1	151	51'16"	28	08'44"	SE	49,732	23,459	-43,851	1	489	349,922	9	236	838,391	292,683
328	E21	-	2	121	24'11"	58	35'49"	SE	79,519	67,871	-41,434	2	489	394,334	9	236	840,888	294,496
329	E21	-	3	129	29'36"	50	30'24"	SE	265,070	204,554	-168,581	3	489	531,017	9	236	713,661	294,748
330	E21	-	4	143	31'06"	36	28'54"	SE	233,016	138,543	-187,356	4	489	465,006	9	236	694,886	295,739
331	E21	-	5	201	55'31"	21	55'31"	SW	106,803	-39,880	-99,078	5	489	286,583	9	236	783,164	287,988
332	E21	-	6	141	58'16"	38	01'44"	SE	148,770	91,651	-117,186	6	489	418,114	9	236	765,056	295,086
333	E21	-	7	175	57'06"	4	02'54"	SE	120,058	8,476	-119,758	7	489	334,939	9	236	762,484	290,382
334	E21	-	8	162	57'46"	17	02'14"	SE	171,322	50,196	-163,803	8	489	376,659	9	236	718,439	298,411
335	E21	-	9	157	45'46"	22	14'14"	SE	201,313	76,185	-186,340	9	489	402,648	9	236	695,902	303,743
336	E21	-	10	146	20'36"	33	39'24"	SE	251,868	139,589	-209,648	10	489	466,052	9	236	672,594	296,974
337	E21	-	11	185	33'46"	5	33'46"	SW	225,133	-21,824	-224,073	11	489	304,639	9	236	658,169	295,226
338	E21	-	12	133	44'41"	46	15'19"	SE	361,129	260,890	-249,701	12	489	587,353	9	236	632,541	298,800
339	E21	-	13	203	32'06"	23	32'06"	SW	146,165	-58,365	-134,006	13	489	268,098	9	236	748,236	291,396
340	E21	-	14CD	227	58'21"	47	58'21"	SW	129,805	-96,422	-86,903	14CD	489	230,041	9	236	795,339	281,744
341	E21	-	15CD	142	12'06"	37	47'54"	SE	409,394	250,911	-323,492	15CD	489	577,374	9	236	558,750	296,326
342	E21	-	16	196	10'16"	16	10'16"	SW	206,933	-57,632	-198,746	16	489	268,831	9	236	683,496	294,310
343	E21	-	17	184	34'06"	4	34'06"	SW	217,473	-17,321	-216,782	17	489	309,142	9	236	665,460	293,211
344	E21	-	18	186	27'56"	6	27'56"	SW	283,244	-31,895	-281,442	18	489	294,568	9	236	600,800	299,316
345	E21	-	19	176	59'46"	3	00'14"	SE	285,479	14,960	-285,087	19	489	341,423	9	236	597,155	298,995
346	E21	-	20CD	210	37'56"	30	37'56"	SW	355,176	-180,971	-305,613	20CD	489	145,492	9	236	576,629	290,275
347	E21	-	21	205	30'26"	25	30'26"	SW	280,507	-120,793	-253,166	21	489	205,670	9	236	629,076	291,958
348	E21	-	22	217	40'36"	37	40'36"	SW	319,656	-195,375	-252,999	22	489	131,088	9	236	629,243	293,714
349	E21	-	23	206	09'56"	26	09'56"	SW	222,137	-97,955	-199,373	23	489	228,508	9	236	682,869	293,401
350	E21	-	24	218	43'31"	38	43'31"	SW	339,990	-212,693	-265,245	24	489	113,770	9	236	616,997	298,643

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario										Data			
												04/08/96			
IN	ALINHAMEN	AZIMUTE		DISTANCIA		LONG	PARC	LAT	PARC	COORD E (X)		COORD N (Y)		COORD (Z)	
DICE	EST P V	COMPENSADO	R U M O	QD	HORIZONTAL	X	(E+,W-)	Y	(N+,S-)	P V	TOT	COMPENS	TOT	COMPENS	DO PONTO
351	E21 - 25	222 00'36"	42 00'36"	SW	242,398	-162,227		-180,109		25	489 164,236	9 236 702,133		287,512	
352	E21 - 26	230 10'46"	50 10'46"	SW	305,393	-234,558		-195,569		26	489 091,905	9 236 686,673		296,208	
353	E21 - 27	238 22'46"	58 22'46"	SW	220,362	-187,647		-115,534		27	489 138,816	9 236 766,708		291,854	
354	E21 - 28	251 06'06"	71 06'06"	SW	242,298	-229,237		-78,478		28	489 097,226	9 236 803,764		301,550	
355	E21 - 29	204 31'06"	24 31'06"	SW	383,484	-159,140		-348,905		29	489 167,323	9 236 533,337		296,736	
356	E21 - 30	206 00'26"	26 00'26"	SW	408,047	-178,922		-366,728		30	489 147,541	9 236 515,514		301,319	
357	E21 - 31	214 33'26"	34 33'26"	SW	423,784	-240,383		-349,012		31	489 086,080	9 236 533,230		301,516	
358	E21 - 32	257 53'21"	77 53'21"	SW	261,274	-255,459		-54,816		32	489 071,004	9 236 827,426		302,024	
359	E21 - 33	227 32'31"	47 32'31"	SW	370,284	-273,185		-249,960		33	489 053,278	9 236 632,282		297,875	
360	E21 - 34	269 58'41"	89 58'41"	SW	314,720	-314,720		-0,121		34	489 011,743	9 236 882,121		297,081	
361	E21 - 35	237 04'36"	57 04'36"	SW	329,589	-276,657		-179,137		35	489 049,806	9 236 703,105		294,189	
362	E21 - 36	228 02'36"	48 02'36"	SW	224,579	-167,008		-150,146		36	489 159,455	9 236 732,096		280,957	
363	E21 - 37C	285 18'31"	74 41'29"	NW	277,493	-267,647		73,263		37C	489 058,816	9 236 955,505		293,531	
364	E21 - 38	237 55'46"	57 55'46"	SW	144,738	-122,650		-76,851		38	489 203,813	9 236 805,391		279,298	
365	E21 - 39C	316 49'56"	43 10'04"	NW	75,348	-51,548		54,955		39C	489 274,915	9 236 937,197		285,965	
366	E21 - 40C	303 23'36"	56 36'24"	NW	234,651	-195,913		129,148		40C	489 130,550	9 237 011,390		278,985	
367	E21 - 41C	293 50'06"	66 09'54"	NW	275,462	-251,969		111,315		41C	489 074,494	9 236 993,557		289,276	
368	E22 - E23	193 47'41"	13 47'41"	SW	644,968	-153,789		-626,365		E23	488 588,541	9 236 690,928		291,701	
369	E22 - 1	351 21'11"	8 38'49"	NW	9,951	-1,496		9,838		1	488 740,834	9 237 327,131		298,656	
370	E22 - 2	349 04'41"	10 55'19"	NW	57,700	-10,933		56,655		2	488 731,397	9 237 373,948		296,336	
371	E22 - 3	20 23'56"	20 23'56"	NE	43,939	-15,315		41,184		3	488 757,645	9 237 358,477		293,083	
372	E22 - 4	348 54'36"	11 05'24"	NW	121,839	-23,436		119,564		4	488 718,894	9 237 436,857		292,766	
373	E22 - 5	18 42'16"	18 42'16"	NE	86,062	27,599		81,517		5	488 769,929	9 237 398,810		294,015	
374	E22 - 6CD	351 28'36"	8 31'24"	NW	168,535	-24,979		166,674		6CD	488 717,351	9 237 483,967		297,969	
375	E22 - 7	351 08'41"	8 51'19"	NW	224,450	-34,552		221,775		7	488 707,778	9 237 539,068		296,891	
376	E22 - 8	12 41'41"	12 41'41"	NE	279,296	61,377		272,469		8	488 803,707	9 237 589,762		292,314	
377	E22 - 9	350 11'11"	9 48'49"	NW	332,061	-56,598		327,202		9	488 685,732	9 237 644,495		302,646	
378	E22 - 10	6 57'51"	6 57'51"	NE	364,741	44,224		362,050		10	488 786,554	9 237 679,343		302,615	
379	E22 - 11	17 49'41"	17 49'41"	NE	357,231	109,370		340,077		11	488 851,700	9 237 657,370		302,247	
380	E22 - 12	16 59'21"	16 59'21"	NE	315,541	92,198		301,771		12	488 834,528	9 237 619,064		297,677	
381	E22 - 13	62 35'46"	62 35'46"	NE	48,724	43,266		22,426		13	488 785,586	9 237 339,719		294,711	
382	E22 - 10	131 19'16"	48 40'44"	SE	54,606	41,010		-36,055		10	488 783,340	9 237 281,238		286,188	
383	E22 - 14	65 51'06"	65 51'06"	NE	88,825	81,052		36,338		14	488 823,382	9 237 353,631		293,098	
384	E22 - 15C	129 56'31"	50 03'29"	SE	136,778	104,867		-87,813		15C	488 847,197	9 237 229,480		280,721	
385	E22 - 16C	124 37'36"	55 22'24"	SE	144,389	118,814		-82,046		16C	488 861,144	9 237 235,247		280,810	
386	E22 - 17	137 34'01"	42 25'59"	SE	162,218	109,453		-119,728		17	488 851,783	9 237 197,565		275,838	
387	E22 - 18C	171 58'21"	8 01'39"	SE	74,361	10,384		-73,632		18C	488 752,714	9 237 243,661		289,334	
388	E22 - 19CD	163 17'36"	16 42'24"	SE	75,119	21,595		-71,948		19CD	488 763,925	9 237 245,345		288,596	
389	E22 - 20C	185 56'26"	5 56'26"	SW	87,557	-9,062		-87,087		20C	488 733,268	9 237 230,206		289,559	
390	E22 - 21C	65 39'26"	65 39'26"	NE	328,442	299,242		135,382		21C	489 041,572	9 237 452,675		281,356	
391	E22 - 22C	194 15'16"	14 15'16"	SW	129,163	-31,804		-125,186		22C	488 710,526	9 237 192,107		287,993	
392	E22 - 23CD	65 36'41"	65 36'41"	NE	345,582	314,744		142,699		23CD	489 057,074	9 237 459,992		281,522	
393	E22 - 24CD	253 38'56"	73 38'56"	SW	56,597	-54,308		-15,933		24CD	488 688,022	9 237 301,360		298,011	
394	E22 - 25	82 40'31"	82 40'31"	NE	439,242	435,658		56,000		25	489 177,988	9 237 373,293		276,512	
395	E22 - 26	83 07'31"	83 07'31"	NE	376,208	373,503		45,032		26	489 115,833	9 237 362,325		276,359	
396	E22 - 27C	97 43'51"	82 16'09"	SE	83,572	82,812		-11,242		27C	488 825,142	9 237 306,051		288,780	
397	E22 - 28	82 42'06"	82 42'06"	NE	307,663	305,170		39,084		28	489 047,500	9 237 356,377		278,206	
398	E22 - 29C	98 28'06"	81 31'54"	SE	169,673	167,823		-24,987		29C	488 910,153	9 237 292,306		283,179	
399	E22 - 30R	121 59'31"	58 00'29"	SE	215,170	182,491		-113,997		30R	488 924,821	9 237 203,296		276,725	
400	E22 - 31R	139 28'16"	40 31'44"	SE	195,530	127,862		-148,618		31R	488 869,392	9 237 168,675		276,320	

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario											Data 04/08/96			
IN	ALINHAMEN		AZINUTE		DISTANCIA		LONG	PARC	LAT	PARC	COORD E (X)		COORD N (Y)		COORD (Z)	
	DICE	EST	P V	COMPENSADO	R U M O	QD					HORIZONTAL	X	(E+,W-)	Y		(N+,S-)
401	E22	-	32	134 06'41"	45 53'19"	SE	252,801	181,508	-175,964	32	488 923,838	9 237 141,329	276,724			
402	E22	-	33CD	134 09'01"	45 50'59"	SE	299,747	215,073	-208,787	33CD	488 957,403	9 237 108,506	276,714			
403	E22	-	34	145 37'56"	34 22'04"	SE	354,167	199,920	-292,340	34	488 942,258	9 237 024,953	276,797			
404	E22	-	35C	151 10'51"	28 49'09"	SE	364,954	175,925	-319,753	35C	488 918,255	9 236 997,540	281,667			
405	E22	-	36C	141 46'31"	38 13'29"	SE	442,600	273,858	-347,702	36C	489 016,188	9 236 969,591	295,407			
406	E22	-	37C	143 50'31"	36 09'29"	SE	418,171	246,727	-337,628	37C	488 989,057	9 236 979,665	291,045			
407	E22	-	38	156 25'16"	23 34'44"	SE	319,448	127,783	-292,777	38	488 870,113	9 237 024,516	276,615			
408	E22	-	39	146 19'21"	33 40'39"	SE	297,006	164,695	-247,160	39	488 907,025	9 237 070,133	276,594			
409	E22	-	40CD	156 35'31"	23 24'29"	SE	287,221	114,106	-263,582	40CD	488 856,436	9 237 053,711	276,643			
410	E22	-	41	162 12'51"	17 47'09"	SE	215,844	65,932	-205,528	41	488 808,262	9 237 111,765	277,012			
411	E22	-	42R	164 32'56"	15 27'04"	SE	177,474	47,282	-171,060	42R	488 789,612	9 237 146,233	277,462			
412	E22	-	43	150 44'06"	29 15'54"	SE	180,417	88,197	-157,390	43	488 830,527	9 237 159,903	277,176			
413	E22	-	44	170 14'11"	9 45'49"	SE	113,492	19,246	-111,848	44	488 761,576	9 237 205,445	285,037			
414	E22	-	45	152 21'16"	27 38'44"	SE	120 952	56,122	-107,144	45	488 798,452	9 237 210,149	281,616			
415	E22	-	46	170 04'36"	9 55'24"	SE	297,030	51,187	-292,586	46	488 793,517	9 237 024,707	276,557			
416	E22	-	47	169 11'26"	10 48'34"	SE	362,020	67,894	-355,596	47	488 810,224	9 236 961,697	276,319			
417	E22	-	48	169 54'01"	10 05'59"	SE	449,847	78,886	-442,876	48	488 821,216	9 236 874,417	276,505			
418	E22	-	49	160 01'36"	19 58'34"	SE	368,694	125,940	-346,518	49	488 868,270	9 236 970,775	277,087			
419	E22	-	50	164 39'11"	15 20'49"	SE	504,760	133,591	-486,761	50	488 875,921	9 236 830,532	291,141			
420	E22	-	51	154 42'26"	25 17'34"	SE	450,600	192,516	-407,404	51	488 934,846	9 236 909,889	289,035			
421	E22	-	52	160 50'56"	19 09'04"	SE	539,689	177,051	-509,821	52	488 919,381	9 236 807,472	300,543			
422	E22	-	53	153 17'01"	26 42'59"	SE	526,484	236,694	-470,278	53	488 979,024	9 236 847,015	297,445			
423	E22	-	54	153 49'46"	26 10'14"	SE	573,503	252,940	-514,710	54	488 995,270	9 236 802,583	302,095			
424	E22	-	55	157 50'01"	22 09'59"	SE	597,591	225,470	-553,424	55	488 967,800	9 236 763,869	302,562			
425	E22	-	56CD	167 55'46"	12 04'14"	SE	658,812	137,768	-644,246	56CD	488 880,098	9 236 673,047	288,735			
426	E22	-	57	171 27'16"	8 32'44"	SE	732,155	108,795	-724,027	57	488 851,125	9 236 593,266	294,757			
427	E22	-	58	167 57'36"	12 02'24"	SE	711,320	148,377	-695,673	58	488 890,707	9 236 621,620	296,610			
428	E22	-	59	170 37'41"	9 22'19"	SE	776,046	126,374	-765,687	59	488 868,704	9 236 551,606	297,016			
429	E22	-	60GR	171 34'11"	8 25'49"	SE	626,822	91,896	-620,049	60GR	488 834,226	9 236 697,244	282,172			
430	E22	-	61	174 50'11"	5 09'49"	SE	691,194	62,208	-688,389	61	488 804,538	9 236 628,904	284,383			
431	E22	-	62	177 49'11"	2 10'49"	SE	537,024	20,430	-536,635	62	488 762,760	9 236 780,658	287,755			
432	E22	-	63	181 56'11"	1 56'11"	SW	467,386	-15,793	-467,119	63	488 726,537	9 236 850,174	281,308			
433	E22	-	64	174 15'51"	5 44'09"	SE	659,665	65,928	-656,362	64	488 808,258	9 236 660,931	281,002			
434	E22	-	65C	185 09'51"	5 09'51"	SW	400,610	-36,059	-398,984	65C	488 706,271	9 236 918,309	284,455			
435	E22	-	66C	185 17'56"	5 17'56"	SW	367,234	-33,915	-365,665	66C	488 708,415	9 236 951,628	283,574			
436	E22	-	67	188 19'11"	8 19'11"	SW	531,528	-76,910	-525,934	67	488 665,420	9 236 791,359	290,014			
437	E22	-	68C	188 51'11"	8 51'11"	SW	477,508	-73,489	-471,819	68C	488 668,841	9 236 845,474	284,024			
438	E22	-	69	192 42'51"	12 42'51"	SW	299,434	-65,902	-292,092	69	488 676,428	9 237 025,201	277,490			
439	E22	-	70CD	192 03'11"	12 03'11"	SW	290,172	-60,593	-283,775	70CD	488 681,737	9 237 033,518	277,548			
440	E22	-	71	194 24'21"	14 24'21"	SW	422,702	-105,163	-409,411	71	488 637,167	9 236 907,882	277,412			
441	E22	-	72	185 43'41"	5 43'41"	SW	234,162	-23,371	-232,993	72	488 718,959	9 237 084,300	277,544			
442	E23	-	E24	320 22'31"	39 37'29"	NW	591,528	-177,251	455,617	E24	488 211,290	9 237 146,545	305,878			
443	E23	-	1CD	74 43'31"	74 43'31"	NE	38,424	37,067	10,123	1CD	488 625,608	9 236 701,051	282,488			
444	E23	-	2C	128 29'51"	51 30'09"	SE	55,953	43,791	-34,830	2C	488 632,332	9 236 656,098	291,995			
445	E23	-	3CD	143 33'26"	36 26'34"	SE	89,519	53,176	-72,014	3CD	488 641,717	9 236 618,914	288,395			
446	E23	-	4C	48 17'26"	48 17'26"	NE	63,141	47,137	42,011	4C	488 635,678	9 236 732,939	288,786			
447	E23	-	5	145 56'21"	34 03'39"	SE	138,652	77,655	-114,865	5	488 666,196	9 236 576,063	293,358			
448	E23	-	6CD	155 38'41"	24 21'19"	SE	171,109	70,564	-155,881	6CD	488 659,105	9 236 535,047	287,600			
449	E23	-	7	135 58'06"	44 01'54"	SE	235,861	163,937	-169,574	7	488 752,478	9 236 521,354	290,478			
450	E23	-	8CD	162 46'36"	17 13'24"	SE	171,667	50,830	-163,969	8CD	488 639,371	9 236 526,959	284,554			

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario										DATA 04/08/96			
IN DICE	ALINHAMENTO		AZIMUTE		DISTANCIA		LONG PARC		LAT PARC		COORD E (X)		COORD N (Y)		COORD (Z) DO PONTO
	EST	P V	COMPENSADO	R U M O	QD	HORIZONTAL	X · (E+,W-)	Y	(N+,S-)	P V	TOT	COMPENS	TOT	COMPENS	
451	E23	- 9	143 47'21"	36 12'39"	SE	268,400	158,560	-216,558	9	488 747,101	9 236 474,370	295,200			
452	E23	- 10CD	165 56'16"	14 03'44"	SE	178,873	43,462	-173,513	10CD	488 632,003	9 236 517,415	281,331			
453	E23	- 11CD	167 42'36"	12 17'24"	SE	218,179	46,442	-213,179	11CD	488 634,983	9 236 477,749	280,757			
454	E23	- 12	147 35'46"	32 24'14"	SE	469,331	251,507	-396,252	12	488 840,048	9 236 294,676	301,019			
455	E23	- 13CD	177 09'11"	2 50'49"	SE	223,603	11,106	-223,327	13CD	488 599,647	9 236 467,601	285,951			
456	E23	- 14	149 47'51"	30 12'09"	SE	562,045	282,741	-485,749	14	488 871,282	9 236 205,179	307,925			
457	E23	- 15	172 27'01"	7 32'59"	SE	339,895	44,658	-336,949	15	488 633,199	9 236 353,979	290,376			
458	E23	- 16	156 50'16"	23 09'44"	SE	598,640	235,467	-550,387	16	488 824,008	9 236 140,541	309,165			
459	E23	- 17CD	169 28'16"	10 31'44"	SE	414,782	75,794	-407,798	17CD	488 664,335	9 236 283,130	300,217			
460	E23	- 18	164 23'51"	15 36'09"	SE	605,693	162,908	-583,374	18	488 751,449	9 236 107,554	309,994			
461	E23	- 19	162 26'51"	17 33'09"	SE	527,378	159,046	-502,824	19	488 747,587	9 236 188,104	302,930			
462	E23	- 20	157 27'41"	22 32'19"	SE	545,911	209,251	-504,215	20	488 797,792	9 236 186,713	298,704			
463	E23	- 21	167 09'11"	12 50'49"	SE	439,820	97,793	-428,810	21	488 686,334	9 236 262,118	301,153			
464	E23	- 22	160 14'01"	19 45'59"	SE	454,461	153,692	-427,684	22	488 742,233	9 236 263,244	295,004			
465	E23	- 23	161 19'26"	18 40'34"	SE	387,345	124,035	-366,949	23	488 712,576	9 236 323,979	292,201			
466	E23	- 24	162 41'46"	17 18'14"	SE	325,022	96,674	-310,312	24	488 685,215	9 236 380,616	283,539			
467	E23	- 25	184 23'41"	4 23'41"	SW	246,457	-18,888	-245,732	25	488 569,656	9 236 445,196	292,051			
468	E23	- 26	189 00'16"	9 00'16"	SW	211,936	-33,170	-209,324	26	488 555,371	9 236 481,604	284,333			
469	E23	- 27	181 23'41"	1 23'41"	SW	140,108	-3,410	-140,066	27	488 585,131	9 236 550,862	279,537			
470	E23	- 28	175 52'26"	4 07'34"	SE	64,622	4,650	-64,455	28	488 593,191	9 236 626,473	281,504			
471	E23	- 29C	223 14'21"	43 14'21"	SW	33,890	-23,216	-24,689	29C	488 565,325	9 236 666,239	289,644			
472	E23	- 30CD	329 50'46"	30 09'14"	NW	54,107	-27,179	46,785	30CD	488 561,362	9 236 737,713	278,434			
473	E23	- 31	347 53'56"	12 06'04"	NW	110,505	-23,166	108,049	31	488 565,375	9 236 798,977	276,753			
474	E23	- 32CD	357 40'26"	2 19'34"	NW	173,034	-7,023	172,891	32CD	488 581,518	9 236 863,819	276,824			
475	E23	- 33CD	350 14'31"	9 45'29"	NW	145,575	-24,673	143,469	33CD	488 563,868	9 236 834,397	276,843			
476	E23	- 34CD	4 50'01"	4 50'01"	NE	237,279	19,994	236,435	34CD	488 608,535	9 236 927,363	277,330			
477	E23	- 35R	356 38'11"	3 21'49"	NW	240,762	-14,126	240,347	35R	488 574,415	9 236 931,275	274,137			
478	E23	- 36	3 46'11"	3 46'11"	NE	294,200	19,343	293,563	36	488 607,884	9 236 984,491	277,794			
479	E23	- 37	353 55'51"	6 04'09"	NW	312,366	-33,026	310,615	37	488 555,515	9 237 001,543	276,677			
480	E23	- 38	5 25'21"	5 25'21"	NE	370,226	34,986	368,569	38	488 623,527	9 237 059,497	277,505			
481	E23	- 39	355 32'51"	4 27'09"	NW	412,951	-32,058	411,705	39	488 556,483	9 237 102,633	276,718			
482	E23	- 40	5 22'51"	5 22'51"	NE	406,243	38,096	404,453	40	488 626,637	9 237 095,381	277,199			
483	E23	- 41	5 28'21"	5 28'21"	NE	479,989	45,776	477,801	41	488 634,317	9 237 168,729	281,295			
484	E23	- 42	357 57'01"	2 02'59"	NW	548,857	-19,631	548,506	42	488 568,910	9 237 239,434	283,487			
485	E23	- 43	6 22'36"	6 22'36"	NE	569,978	63,304	566,452	43	488 651,845	9 237 257,380	290,019			
486	E23	- 44CD	4 18'31"	4 18'31"	NE	646,324	48,557	644,497	44CD	488 637,098	9 237 335,425	295,460			
487	E23	- 45CD	7 35'46"	7 35'46"	NE	626,430	82,887	620,933	45CD	488 671,348	9 237 311,861	296,370			
488	E23	- 46CD	1 59'46"	1 59'46"	NE	590,898	20,585	590,639	46CD	488 609,126	9 237 281,567	288,363			
489	E23	- 47EL	4 58'51"	4 58'51"	NE	814,345	70,703	811,270	47EL	488 659,244	9 237 502,198	300,522			
490	E23	- 48GR	4 49'11"	4 49'11"	NE	743,516	62,471	740,887	48GR	488 651,012	9 237 431,815	294,525			
491	E23	- 49	0 25'31"	0 25'31"	NE	791,964	5,878	791,942	49	488 594,419	9 237 482,870	300,031			
492	E23	- 50GR	2 46'26"	2 46'26"	NE	822,823	39,820	821,859	50GR	488 628,361	9 237 512,787	299,680			
493	E23	- 51	358 16'16"	1 43'44"	NW	794,777	-23,979	794,415	51	488 564,562	9 237 485,343	300,229			
494	E23	- 52	358 57'46"	1 02'14"	NW	735,490	-13,314	735,369	52	488 575,227	9 237 426,297	296,482			
495	E23	- 53	355 24'41"	4 35'19"	NW	820,293	-65,624	817,664	53	488 522,917	9 237 508,592	302,347			
496	E23	- 54	354 11'11"	5 48'49"	NW	773,679	-78,368	769,700	54	488 510,173	9 237 460,628	298,767			
497	E23	- 55CD	358 26'11"	1 33'49"	NW	694,382	-18,947	694,123	55CD	488 569,594	9 237 385,051	291,168			
498	E23	- 56CD	355 52'41"	4 07'19"	NW	718,015	-51,611	716,158	56CD	488 536,930	9 237 407,086	292,266			
499	E23	- 57	357 32'31"	2 27'29"	NW	590,272	-25,316	589,729	57	488 563,225	9 237 280,657	284,999			
500	E23	- 58PA	356 09'26"	3 50'34"	NW	566,267	-37,961	564,994	58PA	488 550,590	9 237 255,922	283,235			

TopoEVN 3 0 - Sistema para processamento de Levantamentos Topograficos

Arquivo BACIA6

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Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado			Proprietario											Data 04/08/96			
IN	ALINHAMEN		AZIMUTE		DISTANCIA		LONG	PARC	LAT	PARC	COORD E (X)		COORD N (Y)		COORD (Z)		
DICE	EST	P V	COMPENSADO		R U M O	QD	HORIZONTAL	X	(E+,W-)	Y	(N+,S-)	P V	TOT	COMPENS	TOT	COMPENS	DO PONTO
501	E23	- 59	353	57'41"	6	02'19"	NW	652,599	-68,653	648,978	59	488 519,888	9 237 339,906	286,504			
502	E23	- 60PA	352	16'21"	7	43'39"	NW	552,424	-74,280	547,407	60PA	488 514,261	9 237 238,335	282,724			
503	E23	- 61	353	02'51"	6	57'09"	NW	506,723	-61,337	502,997	61	488 527,204	9 237 193,925	276,426			
504	E23	- 62	349	56'41"	10	03'19"	NW	450,958	-78,736	444,031	62	488 509,805	9 237 134,959	279,496			
505	E23	- 63	352	51'11"	7	08'49"	NW	401,118	-49,905	398,001	63	488 538,636	9 237 088,929	276,863			
506	E23	- 64	344	00'46"	15	59'14"	NW	396,588	-109,229	381,249	64	488 479,312	9 237 072,177	283,744			
507	E23	- 65	346	49'46"	13	10'14"	NW	297,715	-67,835	289,884	65	488 520,706	9 236 980,812	277,627			
508	E23	- 66	337	50'31"	22	09'29"	NW	355,767	-134,182	329,493	66	488 454,359	9 237 020,421	284,462			
509	E23	- 67CD	331	23'21"	28	36'39"	NW	291,523	-139,598	255,926	67CD	488 448,943	9 236 946,854	277,854			
510	E23	- 68CD	339	03'36"	20	56'24"	NW	234,023	-83,638	218,567	68CD	488 504,903	9 236 909,495	277,547			
511	E23	- 69R	326	30'01"	33	29'59"	NW	247,499	-136,603	206,387	69R	488 451,938	9 236 897,315	276,966			
512	E23	- 70	328	21'21"	31	38'39"	NW	339,122	-177,918	288,702	70	488 410,623	9 236 979,630	280,691			
513	E23	- 71	334	33'46"	25	26'14"	NW	366,244	-157,310	330,739	71	488 431,231	9 237 021,667	286,191			
514	E23	- 72	327	32'21"	32	27'39"	NW	403,644	-216,648	340,578	72	488 371,896	9 237 031,506	291,358			
515	E23	- 73	334	28'16"	25	31'44"	NW	436,170	-187,974	393,586	73	488 400,567	9 237 084,514	290,979			
516	E23	- 74MR	328	10'26"	31	49'34"	NW	416,208	-219,484	353,632	74MR	488 369,057	9 237 044,560	292,556			
517	E23	- 75C	328	13'31"	31	46'29"	NW	436,081	-229,632	370,723	75C	488 358,909	9 237 061,651	293,420			
518	E23	- 76C	330	12'16"	29	47'44"	NW	445,222	-221,234	386,365	76C	488 367,307	9 237 077,293	294,008			
519	E23	- 77	331	20'56"	28	39'04"	NW	489,827	-234,860	429,850	77	488 353,681	9 237 120,778	294,965			
520	E23	- 78C	342	23'26"	17	36'34"	NW	558,983	-169,107	532,790	78C	488 419,434	9 237 223,718	296,096			
521	E23	- 79	339	58'16"	20	01'44"	NW	488,333	-167,251	458,799	79	488 421,290	9 237 149,727	283,247			
522	E23	- 80	336	26'21"	23	33'39"	NW	618,660	-247,292	567,086	80	488 341,249	9 237 258,014	293,846			
523	E23	- 81	331	10'41"	28	49'19"	NW	539,796	-260,230	472,927	81	488 328,311	9 237 163,855	299,336			
524	E23	- 82	318	04'46"	41	55'14"	NW	560,274	-374,319	416,884	82	488 214,222	9 237 107,812	296,890			
525	E23	- 83	321	48'06"	38	11'54"	NW	504,928	-312,240	396,810	83	488 276,301	9 237 087,738	297,117			
526	E23	- 84	322	36'11"	37	23'49"	NW	416,517	-252,965	330,901	84	488 335,576	9 237 021,829	288,804			
527	E23	- 85C	311	54'36"	48	05'24"	NW	455,354	-338,872	304,159	85C	488 249,669	9 236 995,087	287,355			
528	E23	- 85D	310	51'26"	49	08'34"	NW	388,901	-294,142	254,410	85D	488 294,399	9 236 945,338	282,601			
529	E23	- 86	323	00'01"	36	59'59"	NW	363,464	-218,737	290,276	86	488 369,804	9 236 981,204	285,532			
530	E23	- 87R	312	48'26"	47	11'34"	NW	302,059	-221,604	205,259	87R	488 366,937	9 236 896,187	274,182			
531	E23	- 88CD	310	43'11"	49	16'49"	NW	288,115	-218,365	187,955	88CD	488 370,176	9 236 878,883	278,142			
532	E23	- 89CD	313	30'16"	46	29'44"	NW	265,397	-192,498	182,702	89CD	488 396,043	9 236 873,630	277,684			
533	E23	- 90	307	36'21"	52	23'39"	NW	202,951	-160,783	123,846	90	488 427,758	9 236 814,774	277,724			
534	E23	- 91	306	23'26"	53	36'34"	NW	143,550	-115,557	85,166	91	488 472,984	9 236 776,094	277,767			
535	E23	- 92	331	28'46"	28	31'14"	NW	166,977	-79,727	146,714	92	488 508,814	9 236 837,642	277,514			
536	E23	- 93	308	44'56"	51	15'04"	NW	56,971	-44,431	35,659	93	488 544,110	9 236 726,587	277,657			
537	E23	- 94CD	288	44'36"	71	15'24"	NW	115,227	-109,116	37,026	94CD	488 479,425	9 236 727,954	277,327			
538	E23	- 95CD	269	50'06"	89	50'06"	SW	142,949	-142,948	-0,412	95CD	488 445,593	9 236 690,516	277,369			
539	E23	- 96CD	264	31'26"	84	31'26"	SW	152,707	-152,010	-14,573	96CD	488 436,531	9 236 676,355	277,434			
540	E23	- 97CD	262	20'51"	82	20'51"	SW	163,059	-161,607	-21,714	97CD	488 426,934	9 236 669,214	277,380			
541	E23	- 98CD	258	50'36"	78	50'36"	SW	199,107	-195,344	-38,526	98CD	488 393,197	9 236 652,402	277,629			
542	E23	- 99CD	255	51'11"	75	51'11"	SW	211,686	-205,266	-51,738	99CD	488 383,275	9 236 639,190	277,410			
543	E23	- 100D	256	03'31"	76	03'31"	SW	230,702	-223,906	-55,583	100D	488 364,635	9 236 635,345	277,549			
544	E23	- 101	267	07'01"	87	07'01"	SW	265,986	-265,649	-13,378	101	488 322,892	9 236 677,550	277,236			
545	E23	- 102	282	07'26"	77	52'34"	NW	233,654	-228,443	49,073	102	488 360,098	9 236 740,001	277,432			
546	E23	- 103	277	18'16"	82	41'44"	NW	307,413	-304,918	39,085	103	488 283,623	9 236 730,013	278,259			
547	E23	- 104	294	34'51"	65	25'09"	NW	283,740	-258,026	118,029	104	488 330,515	9 236 808,957	277,761			
548	E23	- 105R	284	15'16"	75	44'44"	NW	371,412	-359,977	91,452	105R	488 228,564	9 236 782,380	278,608			
549	E23	- 106R	292	28'11"	67	31'49"	NW	342,347	-316,357	130,843	106R	488 272,184	9 236 821,771	277,595			
550	E23	- 107	291	52'11"	68	07'49"	NW	405,598	-376,408	151,084	107	488 212,133	9 236 842,012	280,462			

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Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado			Proprietario										Data 04/08/96		
IN	ALINHAMENTO	AZIMUTE	DISTANCIA			LONG	PARC	LAT	PARC	COORD E (X)			COORD N (Y)		COORD (Z)
DICE	EST P V	COMPENSADO	R U M O	Q D	HORIZONTAL	X	(E+,-W-)	Y	(N+,-S-)	P V	TOT	COMPENS	TOT	COMPENS	DO PONTO
551	E23 - 108D	292 14'16"	67 45'44"	NW	508,854	-471,006		192,576	108D	488 117,535	9 236 883,504		288,926		
552	E23 - 109C	292 36'36"	67 23'24"	NW	546,286	-504,300		210,023	109C	488 084,241	9 236 900,951		293,094		
553	E23 - 110	297 12'51"	62 47'09"	NW	528,068	-469,613		241,495	110	488 118,928	9 236 932,423		296,468		
554	E23 - 111C	303 52'56"	56 07'04"	NW	487,225	-404,487		271,622	111C	488 184,054	9 236 962,550		293,863		
555	E23 - 112	299 34'01"	60 25'59"	NW	544,875	-473,921		268,863	112	488 114,620	9 236 959,791		297,518		
556	E23 - 113D	309 47'36"	50 12'24"	NW	343,977	-264,297		220,152	113D	488 324,244	9 236 911,080		278,199		
557	E24 - E25	221 11'01"	41 11'01"	SW	506,562	-333,558	-381,240		E25	487 877,732	9 236 765,305		309,493		
558	E24 - 1	27 18'41"	27 18'41"	NE	37,585	17,245		33,395	1	488 228,535	9 237 179,940		300,938		
559	E24 - 2	48 54'21"	48 54'21"	NE	66,517	50,129		43,722	2	488 261,419	9 237 190,267		300,629		
560	E24 - 3	29 09'11"	29 09'11"	NE	97,043	47,274		84,750	3	488 258,564	9 237 231,295		294,163		
561	E24 - 4	46 31'31"	46 31'31"	NE	99,495	72,201		68,456	4	488 283,491	9 237 215,001		297,421		
562	E24 - 5	31 30'06"	31 30'06"	NE	159,423	83,302		135,928	5	488 294,592	9 237 282,473		296,485		
563	E24 - 6	46 15'41"	46 15'41"	NE	158,129	114,248		109,326	6	488 325,538	9 237 255,871		293,405		
564	E24 - 7	34 49'01"	34 49'01"	NE	193,978	110,753		159,252	7	488 322,043	9 237 305,797		293,046		
565	E24 - 8	45 39'21"	45 39'21"	NE	191,377	136,864		133,766	8	488 348,154	9 237 280,311		294,671		
566	E24 - 9	33 29'21"	33 29'21"	NE	277,021	152,854		231,033	9	488 364,144	9 237 377,578		290,479		
567	E24 - 10	34 13'11"	34 13'11"	NE	326,074	183,374		269,626	10	488 394,664	9 237 416,171		293,918		
568	E24 - 11	40 08'41"	40 08'41"	NE	279,279	180,057		213,486	11	488 391,347	9 237 360,031		289,682		
569	E24 - 12	41 20'21"	41 20'21"	NE	354,399	234,086		266,087	12	488 445,376	9 237 412,632		288,972		
570	E24 - 13	28 56'51"	28 56'51"	NE	416,210	201,449		364,210	13	488 412,739	9 237 510,755		300,657		
571	E24 - 14	42 26'06"	42 26'06"	NE	398,363	268,797		294,009	14	488 480,087	9 237 440,554		292,722		
572	E24 - 15	20 31'41"	20 31'41"	NE	416,122	145,920		389,699	15	488 357,210	9 237 536,244		306,609		
573	E24 - 16	14 40'06"	14 40'06"	NE	427,818	108,333		413,874	16	488 319,623	9 237 560,419		307,567		
574	E24 - 17	19 38'51"	19 38'51"	NE	382,423	128,583		360,158	17	488 339,873	9 237 506,703		303,353		
575	E24 - 18	9 39'36"	9 39'36"	NE	395,646	66,390		390,036	18	488 277,680	9 237 536,581		298,568		
576	E24 - 19	20 01'16"	20 01'16"	NE	332,480	113,830		312,387	19	488 325,120	9 237 458,932		292,669		
577	E24 - 20	11 07'21"	11 07'21"	NE	349,780	67,475		343,210	20	488 278,765	9 237 489,755		293,440		
578	E24 - 21	5 37'46"	5 37'46"	NE	297,543	29,187		296,108	21	488 240,477	9 237 442,653		299,141		
579	E24 - 22	11 09'11"	11 09'11"	NE	174,313	33,717		171,021	22	488 245,007	9 237 317,566		299,278		
580	E24 - 23	20 02'51"	20 02'51"	NE	190,599	65,337		179,050	23	488 276,627	9 237 325,595		295,745		
581	E24 - 24	7 48'21"	7 48'21"	NE	109,764	14,908		108,747	24	488 226,198	9 237 255,292		293,776		
582	E24 - 25	20 20'41"	20 20'41"	NE	157,199	54,653		147,393	25	488 265,943	9 237 293,938		297,248		
583	E24 - 26	348 50'46"	11 09'14"	NW	66,145	-12,795		64,896	26	488 198,495	9 237 211,441		299,110		
584	E24 - 27	311 32'06"	48 27'54"	NW	41,837	-31,317		27,741	27	488 179,973	9 237 174,286		303,669		
585	E24 - 28	300 24'26"	59 35'34"	NW	63,011	-54,344		31,893	28	488 156,946	9 237 178,438		301,174		
586	E24 - 29	319 22'36"	40 37'24"	NW	140,699	-91,607		106,791	29	488 119,683	9 237 253,336		299,319		
587	E24 - 30	317 00'21"	42 59'39"	NW	200,721	-136,876		146,812	30	488 074,414	9 237 293,357		305,612		
588	E24 - 31	303 56'26"	56 03'34"	NW	189,700	-157,378		105,916	31	488 053,912	9 237 252,461		304,085		
589	E24 - 32	307 36'21"	52 23'39"	NW	258,383	-204,698		157,672	32	488 006,592	9 237 304,217		307,510		
590	E24 - 33	322 20'06"	37 39'54"	NW	269,357	-164,589		213,222	33	488 046,701	9 237 359,767		304,924		
591	E24 - 34	310 54'26"	49 05'34"	NW	330,844	-250,042		216,649	34	487 961,248	9 237 363,194		309,928		
592	E24 - 35	327 51'36"	32 08'24"	NW	350,815	-186,630		297,053	35	488 024,660	9 237 443,598		316,446		
593	E24 - 36	307 34'16"	52 25'44"	NW	404,029	-320,232		246,355	36	487 891,058	9 237 392,900		313,088		
594	E24 - 37	305 11'21"	54 48'39"	NW	361,953	-295,807		208,585	37	487 915,483	9 237 355,130		306,658		
595	E24 - 38	297 20'41"	62 39'19"	NW	266,484	-236,707		122,408	38	487 974,583	9 237 268,953		306,653		
596	E24 - 39	297 16'46"	62 43'14"	NW	208,034	-184,897		95,348	39	488 026,393	9 237 241,893		299,835		
597	E24 - FUGA	303 46'51"	56 13'09"	NW	565,203	-469,780		314,263	FUGA	487 741,510	9 237 460,808		307,637		
598	E24 - 40CD	266 06'46"	86 06'46"	SW	52,449	-52,328		-3,556	40CD	488 158,962	9 237 142,989		305,187		
599	E24 - 41	303 46'51"	56 13'09"	NW	565,203	-469,780		314,263	41	487 741,510	9 237 460,808		307,637		
600	E25 - E26	174 42'36"	5 17'24"	SE	310,062	28,587		-308,741	E26	487 906,319	9 236 456,564		307,262		

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario										Data 04/08/96	
IN DICE	ALINHAMENTO EST P V	AZIMUTE COMPENSADO		RUM O QD	DISTANCIA HORIZONTAL	LONG X	PARC (E+,W-)	LAT Y	PARC (N+,S-)	P V	COORD E (X) TOT	COORD N (Y) COMPENS TOT	COORD (Z) DO PONTO
651	E26 - 10C	18	53'31"	18	53'31"	NE	379,833	122,984	359,372	10C	488 029,303	9 236 915,936	291,521
652	E26 - 11C	28	49'11"	28	49'11"	NE	384,838	185,513	337,172	11C	488 091,832	9 236 793,736	285,997
653	E26 - 12C	28	48'21"	28	48'21"	NE	263,194	126,818	230,626	12C	488 033,137	9 236 687,190	290,007
654	E26 - 13C	33	53'56"	33	53'56"	NE	197,168	109,966	163,654	13C	488 016,285	9 236 620,218	294,084
655	E26 - 14C	27	21'46"	27	21'46"	NE	168,605	77,495	149,740	14C	487 983,814	9 236 606,304	294,265
656	E26 - 15C	28	35'01"	28	35'01"	NE	248,800	119,036	218,476	15C	488 025,355	9 236 675,040	289,928
657	E26 - 16C	30	49'26"	30	49'26"	NE	162,677	83,356	139,698	16C	487 989,675	9 236 596,262	294,538
658	E26 - 17C	36	44'06"	36	44'06"	NE	263,975	157,887	211,552	17C	488 064,206	9 236 668,116	290,501
659	E26 - 18C	27	53'36"	27	53'36"	NE	178,865	83,678	158,084	18C	487 989,997	9 236 614,648	294,222
660	E26 - 19CD	31	29'01"	31	29'01"	NE	151,008	78,865	128,778	19CD	487 985,184	9 236 585,342	291,970
661	E26 - 20CD	25	26'01"	25	26'01"	NE	187,296	80,437	169,144	20CD	487 986,756	9 236 625,708	294,838
662	E26 - 21CD	22	04'16"	22	04'16"	NE	83,831	31,500	77,688	21CD	487 937,819	9 236 534,252	298,292
663	E26 - 22CD	49	42'41"	49	42'41"	NE	35,389	26,995	22,884	22CD	487 933,314	9 236 479,448	299,814
664	E26 - 23CD	103	11'06"	76	48'54"	SE	27,602	26,874	-6,296	23CD	487 933,193	9 236 450,268	303,243
665	E26 - 24	121	10'31"	58	49'29"	SE	107,408	91,897	-55,601	24	487 998,216	9 236 400,963	290,983
666	E26 - 25	109	13'11"	70	46'49"	SE	180,204	170,160	-59,322	25	488 076,479	9 236 397,242	278,429
667	E26 - 26	106	44'21"	73	15'39"	SE	222,633	213,199	-64,122	26	488 119,518	9 236 392,442	278,511
668	E26 - 27	105	01'36"	74	58'24"	SE	252,867	244,220	-65,560	27	488 150,539	9 236 391,004	274,273
669	E26 - 28CD	97	24'16"	82	35'44"	SE	274,620	272,330	-35,391	28CD	488 178,649	9 236 421,173	278,328
670	E26 - 29CD	108	04'36"	71	55'24"	SE	303,516	288,535	-94,178	29CD	488 194,854	9 236 362,386	281,983
671	E26 - 30PÇ	94	35'31"	85	24'29"	SE	287,597	286,674	-23,025	30PÇ	488 192,993	9 236 433,539	278,101
672	E26 - 31C	105	17'51"	74	42'09"	SE	336,881	324,945	-88,880	31C	488 231,264	9 236 367,684	284,799
673	E26 - 32C	100	36'11"	79	23'49"	SE	332,927	327,242	-61,260	32C	488 233,561	9 236 395,304	284,730
674	E26 - 33C	95	19'11"	84	40'49"	SE	365,717	364,142	-33,907	33C	488 270,461	9 236 422,657	280,479
675	E26 - 34C	89	28'41"	89	28'41"	NE	383,468	383,452	3,493	34C	488 289,771	9 236 460,057	280,550
676	E26 - 35CD	85	17'51"	85	17'51"	NE	410,290	408,989	33,636	35CD	488 315,228	9 236 490,200	278,217
677	E26 - 36CD	79	36'51"	79	36'51"	NE	370,744	364,670	66,836	36CD	488 270,989	9 236 523,400	278,951
678	E26 - 37CD	83	42'11"	83	42'11"	NE	426,485	423,912	46,777	37CD	488 330,231	9 236 503,341	277,984
679	E26 - 38CD	78	30'36"	78	30'36"	NE	390,263	382,442	77,739	38CD	488 288,761	9 236 534,303	278,071
680	E26 - 39CD	83	33'41"	83	33'41"	NE	451,593	448,745	50,641	39CD	488 355,064	9 236 507,205	278,079
681	E26 - 40	77	45'41"	77	45'41"	NE	409,139	399,841	86,731	40	488 306,160	9 236 543,295	277,640
682	E26 - 41C	84	08'31"	84	08'31"	NE	495,951	493,361	50,619	41C	488 399,680	9 236 507,183	278,989
683	E26 - 42C	83	20'06"	83	20'06"	NE	499,860	496,482	58,016	42C	488 402,801	9 236 514,580	278,799
684	E26 - 43C	80	50'06"	80	50'06"	NE	560,179	553,028	89,224	43C	488 459,347	9 236 545,788	278,989
685	E26 - 44CD	74	22'41"	74	22'41"	NE	527,854	508,355	142,145	44CD	488 414,674	9 236 598,709	277,454
686	E26 - 45CD	64	31'21"	64	31'21"	NE	470,129	424,411	202,229	45CD	488 330,730	9 236 658,793	277,522
687	E26 - 46R	51	11'26"	51	11'26"	NE	353,268	275,279	221,404	46R	488 181,598	9 236 677,968	278,014
688	E26 - 47CD	43	20'06"	43	20'06"	NE	275,349	188,962	200,276	47CD	488 095,281	9 236 656,840	281,791
689	E26 - 48CD	43	29'41"	43	29'41"	NE	260,310	179,168	188,839	48CD	488 085,487	9 236 645,403	280,952
690	E26 - 49R	121	27'46"	58	32'14"	SE	263,095	224,415	-137,321	49R	488 130,734	9 236 319,243	277,577
691	E26 - 50CD	127	41'46"	52	18'14"	SE	320,758	253,805	-196,135	50CD	488 160,124	9 236 260,429	278,637
692	E26 - 51CD	120	34'06"	59	25'54"	SE	362,352	311,993	-184,280	51CD	488 218,312	9 236 272,284	278,085
693	E26 - 52CD	126	20'41"	53	39'19"	SE	440,103	354,488	-260,824	52CD	488 260,807	9 236 195,740	278,372
694	E26 - 53CD	120	17'51"	59	42'09"	SE	517,904	447,167	-261,277	53CD	488 353,486	9 236 195,287	278,112
695	E26 - 54C	125	06'36"	54	53'24"	SE	625,089	511,354	-359,519	54C	488 417,673	9 236 097,045	282,240
696	E26 - 55	119	59'56"	60	00'04"	SE	695,173	602,044	-347,575	55	488 508,363	9 236 108,989	289,974
697	E26 - 56	124	03'46"	55	56'14"	SE	751,992	622,969	-421,191	56	488 529,288	9 236 035,373	308,083
698	E26 - 57	120	01'36"	59	58'24"	SE	797,916	690,830	-399,280	57	488 597,149	9 236 057,284	309,822
699	E26 - 58	118	47'06"	61	12'54"	SE	809,068	709,094	-389,586	58	488 615,413	9 236 066,978	308,367
700	E26 - 59	116	37'51"	63	22'09"	SE	841,208	751,967	-377,063	59	488 658,286	9 236 079,501	311,290

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado			Proprietario									Data 04/08/96				
IN	ALINHAMENT		AZIMUTE		DISTANCIA		LONG	PARC	LAT	PARC	COORD E (X)		COORD N (Y)		COORD (Z)	
DICE	EST	P V	COMPENSADO	R U M O	QD	HORIZONTAL	X	(E+,W-)	Y	(N+,S-)	P V	TOT	COMPENS	TOT	COMPENS	DO PONTO
701	E26	- 60	118 07'16"	61 52'44"	SE	752,079	663,299	-354,483	60	488 569,618	9 236 102,081	300,463				
702	E26	- 61	114 43'21"	65 16'39"	SE	771,807	701,066	-322,788	61	488 607,385	9 236 133,776	300,900				
703	E26	- 62	115 49'51"	64 10'09"	SE	670,973	603,932	-292,353	62	488 510,251	9 236 164,211	294,952				
704	E26	- 63	112 03'41"	67 56'19"	SE	683,255	633,228	-256,630	63	488 539,547	9 236 199,934	286,768				
705	E26	- 64CD	115 53'06"	64 06'54"	SE	598,161	529,152	-256,771	64CD	488 435,471	9 236 199,793	281,371				
706	E26	- 65C	11 07'56"	11 07'56"	NE	580,294	112,040	569,375	65C	488 018,359	9 237 025,939	290,038				
707	E26	- 66CD	115 14'36"	64 45'24"	SE	506,625	458,245	-216,057	66CD	488 364,564	9 236 240,507	279,037				
708	E26	- 67	107 38'51"	72 21'09"	SE	526,013	501,259	-159,466	67	488 407,578	9 236 297,098	286,228				
709	E26	- 68	95 42'56"	84 17'04"	SE	517,851	515,277	-51,573	68	488 421,596	9 236 404,991	287,921				
710	E26	- 69	106 17'01"	73 42'59"	SE	645,300	619,414	-180,937	69	488 525,733	9 236 275,627	282,334				
711	E26	- 70	98 21'26"	81 38'34"	SE	612,761	606,254	-89,061	70	488 512,573	9 236 367,503	288,686				
712	E26	- 71	105 45'01"	74 14'59"	SE	732,103	704,615	-198,726	71	488 610,934	9 236 257,838	293,894				
713	E26	- 72	107 32'21"	72 27'39"	SE	817,506	779,501	-246,362	72	488 685,820	9 236 210,202	301,209				
714	E26	- 73	102 55'51"	77 04'09"	SE	778,086	758,354	-174,116	73	488 664,673	9 236 282,448	300,166				
715	E26	- 74	110 51'36"	69 08'24"	SE	834,644	779,936	-297,205	74	488 686,255	9 236 159,359	296,274				
716	E26	- 75C	85 14'16"	85 14'16"	NE	599,611	597,541	49,780	75C	488 503,860	9 236 506,344	285,518				
717	E26	- 76C	92 07'51"	87 52'09"	SE	538,669	538,297	-20,029	76C	488 444,616	9 236 436,535	288,489				
718	E26	- 77C	81 40'31"	81 40'31"	NE	598,676	592,368	86,678	77C	488 498,687	9 236 543,242	279,414				
719	E26	- 78C	128 10'16"	51 49'44"	SE	599,449	471,268	-370,467	78C	488 377,587	9 236 086,097	280,780				
720	E26	- 79CD	128 15'11"	51 44'49"	SE	567,120	445,350	-351,124	79CD	488 351,669	9 236 105,440	279,269				
721	E26	- 80	130 38'11"	49 21'49"	SE	574,940	436,298	-374,433	80	488 342,617	9 236 082,131	279,709				
722	E26	- 81CD	129 40'41"	50 19'19"	SE	450,175	346,475	-287,425	81CD	488 252,794	9 236 169,139	278,518				
723	E26	- 82	133 30'41"	46 29'19"	SE	496,045	359,750	-341,526	82	488 266,069	9 236 115,038	278,526				
724	E26	- 83	136 45'11"	43 14'49"	SE	408,768	280,065	-297,750	83	488 186,384	9 236 158,814	278,787				
725	E26	- 84R	134 07'36"	45 52'24"	SE	281,238	201,873	-195,811	84R	488 108,192	9 236 260,753	275,793				
726	E26	- 85R	140 11'46"	39 48'14"	SE	352,341	225,555	-270,682	85R	488 131,874	9 236 185,882	275,168				
727	E26	- 86	143 33'16"	36 26'44"	SE	336,282	199,771	-270,513	86	488 106,090	9 236 186,051	278,824				
728	E26	- 87	146 46'46"	33 13'14"	SE	215,650	118,147	-180,406	87	488 024,466	9 236 276,158	288,823				
729	E26	- 88	151 08'11"	28 51'49"	SE	207,480	100,156	-181,705	88	488 006,475	9 236 274,859	291,127				
730	E26	- 89R	142 45'51"	37 14'09"	SE	343,217	207,680	-273,253	89R	488 113,999	9 236 183,311	278,904				
731	E26	- 90	147 54'51"	32 05'09"	SE	363,733	193,211	-308,174	90	488 099,530	9 236 148,390	279,011				
732	E26	- 91	145 45'06"	34 14'54"	SE	440,704	248,020	-364,289	91	488 154,339	9 236 092,275	279,391				
733	E26	- 92CD	151 54'06"	28 05'54"	SE	502,880	236,850	-443,611	92CD	488 143,169	9 236 012,953	279,438				
734	E26	- 93	141 39'56"	38 20'04"	SE	524,537	325,344	-411,449	93	488 231,663	9 236 045,115	278,803				
735	E26	- 94	137 55'41"	42 04'19"	SE	595,126	398,772	-441,764	94	488 305,091	9 236 014,800	279,253				
736	E26	- 95	142 57'01"	37 02'59"	SE	621,805	374,642	-496,271	95	488 280,961	9 235 960,293	279,273				
737	E26	- 96C	136 42'11"	43 17'49"	SE	683,094	468,452	-497,162	96C	488 374,771	9 235 959,402	292,407				
738	E26	- 97C	140 08'51"	39 51'09"	SE	663,692	425,303	-509,514	97C	488 331,622	9 235 947,050	284,565				
739	E26	- 98MR	136 48'06"	43 11'54"	SE	677,902	464,041	-494,183	98MR	488 370,360	9 235 962,381	291,304				
740	E26	- 99	130 39'31"	49 20'29"	SE	662,223	502,366	-431,472	99	488 408,685	9 236 025,092	287,465				
741	E26	- 100	131 25'21"	48 34'39"	SE	723,270	542,345	-478,520	100	488 448,664	9 235 978,044	305,387				
742	E26	- 101	126 39'41"	53 20'19"	SE	666,029	534,274	-397,676	101	488 440,593	9 236 058,888	291,623				
743	E26	- 102	129 04'26"	50 55'34"	SE	715,850	555,739	-451,216	102	488 462,058	9 236 005,348	302,257				
744	E26	- 103	129 12'31"	50 47'29"	SE	746,149	578,153	-471,675	103	488 484,472	9 235 984,889	308,065				
745	E26	- 104	133 01'21"	46 58'39"	SE	742,230	541,634	-506,413	104	488 448,953	9 235 950,151	304,081				
746	E26	- 105	136 45'11"	43 14'49"	SE	730,376	500,413	-532,011	105	488 406,732	9 235 924,553	297,000				
747	E26	- E28	165 43'06"	14 16'54"	SE	763,163	188,264	-739,577	E28	488 094,583	9 235 716,987	306,456				
748	E27	- E27A	322 51'21"	37 08'39"	NW	1 069,848	-645,998	852,796	E27A	486 912,846	9 237 070,053	315,463				
749	E27	- 1CD	122 14'21"	57 45'39"	SE	56,458	47,754	-30,118	1CD	487 606,598	9 236 187,139	300,544				
750	E27	- 2CD	122 50'31"	57 09'29"	SE	126,911	106,627	-68,827	2CD	487 665,471	9 236 148,430	299,513				

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado

Proprietario

Data 04/08/96

IN DICE	ALINHAMENTO EST P V	AZIMUTE COMPENSADO	RUMOR	DISTANCIA HORIZONTAL	LONG X	PARC (E+,W-)	LAT Y	PARC (N+,S-)	COORD E (X) TOT	COORD N (Y) TOT	COORD (Z) DO PONTO
751	E27 - 3C	110 33'36"	69 26'24" SE	209,727	196,368		-73,654	3C	487 755,212	9 236 143,603	290,385
752	E27 - 4C	105 28'26"	74 31'34" SE	250,848	241,755		-66,926	4C	487 800,599	9 236 150,331	287,797
753	E27 - 5C	98 14'51"	81 45'09" SE	311,374	308,154		-44,666	5C	487 866,998	9 236 172,591	283,427
754	E27 - 6CD	98 27'41"	81 32'19" SE	226,124	223,663		-33,273	6CD	487 782,507	9 236 183,984	282,310
755	E27 - 7GR	93 10'41"	86 49'19" SE	286,350	285,910		-15,875	7GR	487 844,754	9 236 201,382	277,174
756	E27 - 8ÇD	93 24'06"	86 35'54" SE	320,563	319,998		-19,021	8ÇD	487 878,842	9 236 198,236	278,425
757	E27 - 9CD	91 24'31"	88 35'29" SE	331,263	331,163		-8 143	9CD	487 890,007	9 236 209,114	278,224
758	E27 - 10GD	59 22'11"	59 22'11" NE	112,782	97,046		57,462	10GD	487 655,890	9 236 274,719	278,613
759	E27 - 11CD	41 52'01"	41 52'01" NE	168,936	112,748		125,806	11CD	487 671,592	9 236 343,063	283,817
760	E27 - 12CD	93 06'26"	86 53'34" SE	408,306	407,706		-22,132	12CD	487 966,550	9 236 195,125	280,588
761	E27 - 13CD	38 08'06"	38 08'06" NE	181,681	112,191		142,903	13CD	487 671,035	9 236 360,160	285,418
762	E27 - 14	84 26'01"	84 26'01" NE	397,799	395,923		38,586	14	487 954,767	9 236 255,843	277,878
763	E27 - 15CD	8 43'41"	8 43'41" NE	201,114	30,518		198,785	15CD	487 589,362	9 236 416,042	291,225
764	E27 - 16CD	5 04'51"	5 04'51" NE	193,486	17,135		192,726	16CD	487 575,979	9 236 409,983	290,017
765	E27 - 17GD	356 10'01"	3 49'59" NW	132,016	-0,825		131,721	17GD	487 550,019	9 236 348,978	279,869
766	E27 - 18CD	305 56'41"	54 03'19" NW	57,900	-46,875		33,988	18CD	487 511,969	9 236 251,245	299,924
767	E27 - 19C	68 40'06"	68 40'06" NE	288,072	268,336		104,791	19C	487 827,180	9 236 322,048	295,639
768	E27 - 20C	74 36'26"	74 36'26" NE	261,803	252,412		69,492	20C	487 811,256	9 236 286,749	292,265
769	E27 - 21CD	76 06'41"	76 06'41" NE	242,737	235,640		58,265	21CD	487 794,484	9 236 275,522	291,979
770	E27 - 22C	75 46'41"	75 46'41" NE	236,554	229,304		58,116	22C	487 788,148	9 236 275,373	291,256
771	E27 - 23CD	75 03'41"	75 03'41" NE	218,618	211,229		56,356	23CD	487 770,073	9 236 273,613	290,067
772	E27 - 24GR	68 07'56"	68 07'56" NE	171,666	159,314		63,940	24GR	487 718,158	9 236 281,197	278,365
773	E27 - 25CD	56 19'56"	56 19'56" NE	231,126	192,358		128,131	25CD	487 751,202	9 236 345,388	282,107
774	E27 - 26	55 02'06"	55 02'06" NE	272,619	223,412		156,231	26	487 782,256	9 236 373,488	291,239
775	E27 - 27	50 26'26"	50 26'26" NE	330,913	255,122		210,751	27	487 813,966	9 236 428,008	294,007
776	E27 - 28	50 31'01"	50 31'01" NE	390,698	301,546		248,425	28	487 860,390	9 236 465,682	304,409
777	E27 - 29CD	40 00'51"	40 00'51" NE	403,270	259,293		308,859	29CD	487 818,137	9 236 526,116	291,813
778	E27 - 30CD	307 57'51"	52 02'09" NW	135,471	-106,805		83,337	30CD	487 452,039	9 236 300,594	295,630
779	E27 - 31	36 22'16"	36 22'16" NE	452,632	268,417		364,456	31	487 827,261	9 236 581,713	297,295
780	E27 - 32GR	325 53'46"	34 06'14" NW	228,650	-128,203		189,327	32GR	487 430,641	9 236 406,584	281,843
781	E27 - 33	337 13'06"	22 46'54" NW	295,517	-114,430		272,463	33	487 444,414	9 236 489,720	290,984
782	E27 - 34	28 25'26"	28 25'26" NE	401,206	190,970		352,841	34	487 749,814	9 236 570,098	285,050
783	E27 - 35	345 48'51"	14 11'09" NW	395,752	-96,986		383,684	35	487 461,858	9 236 600,941	291,614
784	E27 - 36PA	23 00'56"	23 00'56" NE	356,250	139,287		327,892	36PA	487 698,131	9 236 545,149	287,646
785	E27 - 37PA	352 51'56"	7 08'04" NW	444,901	-55,256		441,456	37PA	487 503,588	9 236 658,713	302,868
786	E27 - 38GR	42 26'16"	42 26'16" NE	217,137	146,522		160,249	38GR	487 705,366	9 236 377,506	280,716
787	E27 - 39CD	13 41'56"	13 41'56" NE	230,577	54,605		224,018	39CD	487 613,449	9 236 441,275	291,822
788	E27 - 40	4 59'41"	4 59'41" NE	382,620	33,312		381,167	40	487 592,156	9 236 598,424	289,717
789	E27 - 41	11 47'11"	11 47'11" NE	380,685	77,760		372,659	41	487 636,604	9 236 589,916	289,112
790	E27 - 42	5 52'21"	5 52'21" NE	411,951	42,149		409,789	42	487 600,993	9 236 627,046	300,626
791	E27 - 43	12 46'06"	12 46'06" NE	417,924	92,365		407,589	43	487 651,209	9 236 624,846	301,581
792	E27 - 44	4 29'46"	4 29'46" NE	459,981	36,059		458,565	44	487 594,903	9 236 675,822	302,728
793	E27 - 45	359 49'16"	0 10'44" NW	511,782	-1,598		511,700	45	487 557,246	9 236 728,957	302,161
794	E27 - 46	0 35'51"	0 35'51" NE	417,374	4,352		417,351	46	487 563,196	9 236 634,608	293,505
795	E27 - 47	3 04'21"	3 04'21" NE	403,392	21,622		402,812	47	487 580,466	9 236 620,069	294,926
796	E27 - 48	359 49'46"	0 10'14" NW	416,750	-1,241		416,748	48	487 557,603	9 236 634,005	286,267
797	E27 - 49	0 56'11"	0 56'11" NE	385,102	6,293		385,051	49	487 565,137	9 236 602,308	287,765
798	E27 - 50GR	357 43'16"	2 16'44" NW	376,126	-14,956		375,829	50GR	487 543,888	9 236 593,086	286,304
799	E27 - 51GR	351 40'21"	8 19'39" NW	366,069	-53,018		362,209	51GR	487 505,826	9 236 579,466	286,774
800	E27 - 52	344 00'51"	15 59'09" NW	389,711	-107,326		374,641	52	487 451,518	9 236 591,898	288,151

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario											Data 04/08/96		
IN	ALINHAMENTEN	AZIMUTE		DISTANCIA		LONG	PARC	LAT	PARC	COORD E (X)		COORD N (Y)		COORD (Z)	
DICE	EST P V	COMPENSADO	R U M O	QD	HORIZONTAL	X	(E+,W-)	Y	(N+,S-)	P V	TOT	COMPENS	TOT	COMPENS	DO PONTO
801	E27 - 53	351 59'41"	8 00'19"	NW	410,247	-57,133	406,249	53	487 501,711	9 236 623,506	295,829				
802	E27 - 54	347 13'56"	12 46'04"	NW	442,663	-97,829	431,718	54	487 461,015	9 236 648,975	299,170				
803	E27 - 55	353 27'01"	6 32'59"	NW	454,087	-51,796	451,123	55	487 507,048	9 236 668,380	303,878				
804	E27 - 56	340 54'51"	19 05'09"	NW	488,084	-159,596	461,254	56	487 399,248	9 236 678,511	298,179				
805	E27 - 57	341 21'06"	18 38'54"	NW	522,174	-166,970	494,759	57	487 391,874	9 236 712,016	297,325				
806	E27 - 58PA	336 18'06"	23 41'54"	NW	463,414	-186,256	424,336	58PA	487 372,588	9 236 641,593	288,729				
807	E27 - 59	335 27'41"	24 32'19"	NW	532,409	-221,113	484,323	59	487 337,731	9 236 701,580	289,314				
808	E27 - 60PA	332 12'46"	27 47'14"	NW	465,861	-217,179	412,140	60PA	487 341,665	9 236 629,397	288,818				
809	E27 - 61	332 23'21"	27 36'39"	NW	599,702	-277,940	531,406	61	487 280,904	9 236 748,663	287,897				
810	E27 - 62	331 27'21"	28 32'39"	NW	524,997	-250,852	461,183	62	487 307,982	9 236 678,440	288,135				
811	E27 - 63	330 47'01"	29 12'59"	NW	523,796	-255,670	457,160	63	487 303,174	9 236 674,417	289,025				
812	E27 - 64	331 03'36"	28 56'24"	NW	648,583	-313,845	567,592	64	487 244,999	9 236 784,849	293,098				
813	E27 - 65	331 53'06"	28 06'54"	NW	680,595	-320,725	600,287	65	487 238,119	9 236 817,544	298,365				
814	E27 - 66	332 25'11"	27 34'49"	NW	752,109	-348,220	666,642	66	487 210,624	9 236 883,899	304,512				
815	E27 - 67	328 54'51"	31 05'09"	NW	762,168	-393,524	652,717	67	487 165,320	9 236 869,974	291,458				
816	E27 - 68CD	329 27'21"	30 32'39"	NW	863,475	-438,820	743,657	68CD	487 120,024	9 236 960,914	295,092				
817	E27 - 69	328 38'26"	31 21'34"	NW	890,320	-463,327	760,261	69	487 095,517	9 236 977,518	298,811				
818	E27 - 70	327 10'11"	32 49'49"	NW	953,568	-516,979	801,264	70	487 041,865	9 237 018,521	294,817				
819	E27 - 71	327 50'26"	32 09'34"	NW	955,984	-508,848	809,308	71	487 049,996	9 237 026,565	297,400				
820	E27 - 72	323 33'16"	36 26'44"	NW	1 018,944	-605,313	819,661	72	486 953,531	9 237 036,918	306,584				
821	E27 - 73	322 49'51"	37 10'09"	NW	1 025,101	-619,336	816,857	73	486 939,508	9 237 034,114	310,353				
822	E27 - 74	321 13'21"	38 46'39"	NW	983,771	-616,134	766,932	74	486 942,710	9 236 984,189	305,727				
823	E27 - E27B	320 13'06"	39 46'54"	NW	398,440	-254,947	306,196	E27B	487 303,897	9 236 523,453	295,302				
824	E27A - PF	145 30'26"	34 29'34"	SE	525,828	297,778	-433,386	PF	487 210,624	9 236 636,667	300,854				
825	E27A - 1CD	310 30'11"	49 29'49"	NW	74,361	-56,542	48,297	1CD	486 856,304	9 237 118,350	308,750				
826	E27A - 2	26 52'51"	26 52'51"	NE	198,620	89,803	177,159	2	487 002,649	9 237 247,212	295,143				
827	E27A - 3	26 36'16"	26 36'16"	NE	267,059	119,597	238,783	3	487 032,443	9 237 308,836	296,414				
828	E27A - 4	314 34'21"	45 25'39"	NW	136,640	-97,337	95,895	4	486 815,509	9 237 165,948	303,511				
829	E27A - 5	24 56'16"	24 56'16"	NE	317,781	133,987	288,153	5	487 046,833	9 237 358,206	302,228				
830	E27A - 6	320 38'31"	39 21'29"	NW	230,963	-146,469	178,580	6	486 766,377	9 237 248,633	301,958				
831	E27A - 7	7 05'11"	7 05'11"	NE	275,760	34,019	273,654	7	486 946,865	9 237 343,707	304,341				
832	E27A - 8	322 42'31"	37 17'29"	NW	278,650	-168,825	221,684	8	486 744,021	9 237 291,737	305,339				
833	E27A - 9GR	326 57'56"	33 02'04"	NW	333,330	-181,713	279,445	9GR	486 731,133	9 237 349,498	298,618				
834	E27A - 10	5 30'46"	5 30'46"	NE	210,073	20,181	209,101	10	486 933,027	9 237 279,154	297,381				
835	E27A - 11GR	321 51'11"	38 08'49"	NW	417,278	-257,744	328,160	11GR	486 655,102	9 237 398,213	302,124				
836	E27A - 12	325 21'21"	34 38'39"	NW	352,673	-200,487	290,144	12	486 712,359	9 237 360,197	302,177				
837	E27A - 13CD	330 43'36"	29 16'24"	NW	317,253	-155,129	276,739	13CD	486 757,717	9 237 346,792	302,796				
838	E27A - 14	350 06'11"	9 53'49"	NW	260,232	-44,728	256,359	14	486 868,118	9 237 326,412	306,302				
839	E27A - 15	338 45'41"	21 14'19"	NW	297,551	-107,789	277,341	15	486 805,057	9 237 347,394	302,261				
840	E27A - 16	39 12'01"	39 12'01"	NE	285,122	180,207	220,953	16	487 093,053	9 237 291,006	300,697				
841	E27A - 17	45 53'41"	45 53'41"	NE	317,013	227,635	220,634	17	487 140,481	9 237 290,687	299,233				
842	E27A - 18	56 07'16"	56 07'16"	NE	311,616	258,709	173,707	18	487 171,555	9 237 243,760	302,240				
843	E27A - 19GR	131 54'41"	48 05'19"	SE	177,967	132,439	-118,878	19GR	487 045,285	9 236 951,175	291,637				
844	E27A - 20GR	131 19'56"	48 40'04"	SE	220,737	165,750	-145,780	20GR	487 078,596	9 236 924,273	291,947				
845	E27A - 21	141 42'26"	38 17'34"	SE	275,210	170,542	-216,000	21	487 083,388	9 236 854,053	296,343				
846	E27A - 22	142 19'31"	37 40'29"	SE	324,421	198,279	-256,777	22	487 111,125	9 236 813,276	297,327				
847	E27A - 23	140 08'11"	39 51'49"	SE	392,955	251,869	-301,621	23	487 164,715	9 236 768,432	292,238				
848	E27A - 24	142 24'06"	37 35'54"	SE	426,617	260,288	-338,012	24	487 173,134	9 236 732,041	295,684				
849	E27A - 25	141 32'36"	38 27'24"	SE	492,530	306,316	-385,690	25	487 219,162	9 236 684,363	297,126				
850	E27A - 26	139 18'41"	40 41'19"	SE	557,161	363,240	-422,475	26	487 276,086	9 236 647,578	297,721				

TopoEVN 3 0 - Sistema para processamento de Levantamentos Topograficos Arquivo BACIAG 25/10/96 15 06 00

Maior Coord (X) 480 930,541 Menor Coord (X) 486,655,102 Maior Coord (Y) 9 238 614,571 Menor Coord (Y) 9 235 716,987

TopoEVN 3 0 - Sistema para processamento de Levantamentos Topograficos Arquivo BACIAG 25/10/96 15 06 00

000056

Imovel BARRAGEM ROSARIO

Local - MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario							Data 09/08/96						
IN	ALINHAMEN	AZIMUTE		DISTANCIA		LONG	PARC	LAT	PARC	COORD E (X)		COORD N (Y)		COORD (Z)	
DICE	EST P V	COMPENSADO	R U M O	QD	HORIZONTAL	X	(E+,W-)	Y	(N+,S-)	P V	TOT	COMPENS	TOT	COMPENS	DO PONTO
1	NM - E26	174 42'36"	5 17'24"	SE	0,000	0,000		0,000		E26	487 906,319	9 236 456,564			307,262
2	E26 - E28	165 43'06"	14 16'54"	SE	763,159	108,263		-739,573		E28	488 094,582	9 235 716,991			304,292
3	E28 - E29	190 42'26"	18 42'26"	SW	651,985	-209,113		-617,541		E29	487 885,469	9 235 099,450			296,142
4	E28 - 1	345 31'51"	14 28'09"	NW	23,559	-5,886		22,812		1	488 088,696	9 235 739,803			298,626
5	E28 - 2MOR	338 36'41"	21 23'19"	NW	115,885	-42,262		107,904		2MOR	488 052,320	9 235 824,895			279,905
6	E28 - 3	345 51'01"	14 08'59"	NW	173,235	-42,348		167,979		3	488 052,234	9 235 884,970			279,517
7	E28 - 4LR	343 32'51"	16 27'09"	NW	207,907	-58,883		199,394		4LR	488 035,699	9 235 916,385			275,846
8	E28 - 5CD	345 52'46"	14 07'14"	NW	313,908	-76,582		304,423		5CD	488 018,000	9 236 021,414			279,236
9	E28 - 6CD	346 14'46"	13 45'14"	NW	411,493	-97,833		399,694		6CD	487 996,749	9 236 116,685			278,220
10	E28 - 7MR	345 29'21"	14 30'39"	NW	441,404	-110,600		427,323		7MR	487 983,982	9 236 144,314			278,177
11	E28 - 8	346 23'56"	13 36'04"	NW	480,074	-112,895		466,611		8	487 981,687	9 236 183,602			279,538
12	E28 - 9	354 42'06"	5 17'54"	NW	483,505	-44,648		481,439		9	488 049,934	9 236 198,430			278,710
13	E28 - 10	357 39'01"	2 20'59"	NW	411,283	-16,862		410,937		10	488 077,720	9 236 127,928			278,670
14	E28 - 11R	2 43'51"	2 43'51"	NE	348,123	16,586		347,728		11R	488 111,168	9 236 064,719			279,313
15	E28 - 12	5 25'01"	5 25'01"	NE	300,319	28,351		298,978		12	488 122,933	9 236 015,969			279,362
16	E28 - 13CD	13 05'46"	13 05'46"	NE	207,537	47,025		202,139		13CD	488 141,607	9 235 919,130			279,350
17	E28 - 14CD	11 33'41"	11 33'41"	NE	168,272	33,725		164,858		14CD	488 128,307	9 235 881,849			279,394
18	E28 - 15C	34 28'41"	34 28'41"	NE	116,713	66,070		96,212		15C	488 160,652	9 235 813,203			290,884
19	E28 - 16CD	37 20'41"	37 20'41"	NE	44,569	27,036		35,432		16CD	488 121,618	9 235 752,423			295,584
20	E28 - 17C	49 43'11"	49 43'11"	NE	210,324	160,454		135,980		17C	488 255,036	9 235 852,971			281,577
21	E28 - 18CD	45 20'26"	45 20'26"	NE	280,404	199,451		197,094		18CD	488 294,033	9 235 914,085			278,356
22	E28 - 19	53 51'06"	53 51'06"	NE	326,348	263,524		192,505		19	488 358,106	9 235 909,496			287,985
23	E28 - 20C	72 34'31"	72 34'31"	NE	238,010	127,088		71,273		20C	488 321,670	9 235 788,264			292,725
24	E28 - 21C	66 15'56"	66 15'56"	NE	230,161	110,694		92,639		21C	488 305,276	9 235 809,630			289,721
25	E28 - 22	61 38'51"	61 38'51"	NE	190,346	167,513		90,394		22	488 262,095	9 235 807,385			283,253
26	E28 - 23	51 50'21"	51 50'21"	NE	60,219	47,349		37,208		23	488 141,931	9 235 754,199			293,049
27	E28 - 24	77 12'31"	77 12'31"	NE	273,804	267,009		60,621		24	488 361,591	9 235 777,612			292,060
28	E28 - 25	72 17'11"	72 17'11"	NE	298,326	284,182		90,768		25	488 378,764	9 235 807,759			293,514
29	E28 - 26	81 09'11"	81 09'11"	NE	343,744	339,654		52,866		26	488 434,236	9 235 769,857			295,213
30	E28 - 27	77 02'16"	77 02'16"	NE	385,481	375,658		86,467		27	488 470,240	9 235 803,458			295,006
31	E28 - 28	66 48'41"	66 48'41"	NE	441,199	405,556		173,726		28	488 500,138	9 235 890,717			291,054
32	E28 - 29	61 56'31"	61 56'31"	NE	346,510	323,435		172,394		29	488 418,017	9 235 889,385			290,264
33	E28 - 30	59 41'06"	59 41'06"	NE	376,741	325,227		190,161		30	488 419,809	9 235 907,152			296,274
34	E28 - 31	61 32'16"	61 32'16"	NE	422,576	371,500		201,391		31	488 466,082	9 235 918,382			297,350
35	E28 - 32	69 48'06"	69 48'06"	NE	462,422	433,984		159,661		32	488 528,566	9 235 876,652			287,902
36	E28 - 33	69 41'26"	69 41'26"	NE	497,085	466,182		172,533		33	488 560,764	9 235 889,524			297,483
37	E28 - 34	69 39'11"	69 39'11"	NE	547,685	513,512		190,432		34	488 608,094	9 235 907,423			302,244
38	E28 - 35M	73 13'06"	73 13'06"	NE	509,352	487,660		147,063		35M	488 582,242	9 235 864,054			291,156
39	E28 - 36	71 59'01"	71 59'01"	NE	574,248	546,092		177,609		36	488 640,674	9 235 894,600			298,545
40	E28 - 37PA	84 51'36"	84 51'36"	NE	578,448	576,122		51,823		37PA	488 670,704	9 235 768,814			293,289
41	E28 - 38	74 18'01"	74 18'01"	NE	595,701	573,477		161,194		38	488 668,059	9 235 878,185			293,344
42	E28 - 39	73 54'51"	73 54'51"	NE	990,124	951,358		274,341		39	489 045,940	9 235 991,332			302,738
43	E28 - 40GR	73 08'36"	73 08'36"	NE	945,969	905,324		274,311		40GR	488 999,906	9 235 991,302			296,982
44	E28 - 41GR	75 42'11"	75 42'11"	NE	1 114,036	1 079,533		275,108		41GR	489 174,115	9 235 992,099			300,983
45	E28 - E28A	74 02'26"	74 02'26"	NE	1 120,607	1 077,415		308,119		E28A	489 171,997	9 236 025,110			305,253
46	E28 - 42	80 06'11"	80 06'11"	NE	801,973	790,038		137,840		42	488 884,620	9 235 854,831			303,956
47	E28 - 43	77 51'51"	77 51'51"	NE	791,485	773,797		166,394		43	488 868,379	9 235 883,385			305,488
48	E28 - 44	81 39'21"	81 39'21"	NE	720,815	713,185		104,604		44	488 807,767	9 235 821,595			295,813
49	E28 - 45	78 15'21"	78 15'21"	NE	739,253	723,778		150,469		45	488 818,360	9 235 867,460			300,182
50	E28 - 46	80 44'01"	80 44'01"	NE	684,885	675,947		110,284		46	488 770,529	9 235 827,275			290,300

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario								Data 09/08/96					
IN	ALINHAMEN	AZINUTE		DISTANCIA		LONG	PARC	LAT	PARC	COORD E (X)		COORD N (Y)		COORD (Z)	
DICE	EST P V	COMPENSADO	R U M O	QD	HORIZONTAL	X	(E+,W-)	Y	(N+,S-)	P V	TOT	COMPENS	TOT	COMPENS	DO PONTO
51	E28 - 47	78 24'01"	78 24'01"	NE	675,528	661,731		135,831	47	488 756,313	9 235 852,822			289,796	
52	E28 - 48	93 11'46"	86 48'14"	SE	610,348	609,399		-34,029	48	488 703,981	9 235 682,962			296,477	
53	E28 - 49	87 54'16"	87 54'16"	NE	576,221	575,836		21,070	49	488 670,418	9 235 738,061			298,833	
54	E28 - 50CD	93 51'51"	86 08'09"	SE	575,658	574,349		-38,794	50CD	488 668,931	9 235 678,197			294,411	
55	E28 - 51	94 34'36"	85 25'24"	SE	496,603	495,020		-39,625	51	488 589,602	9 235 677,366			293,850	
56	E28 - 52	93 22'01"	86 37'59"	SE	374,912	374,265		-22,019	52	488 468,847	9 235 694,972			294,802	
57	E28 - 53	84 43'06"	84 43'06"	NE	394,242	392,568		36,291	53	488 487,150	9 235 753,282			298,990	
58	E28 - 54	91 49'41"	88 10'19"	SE	282,487	282,343		-9,011	54	488 376,925	9 235 707,980			291,433	
59	E28 - 55	85 23'06"	85 23'06"	NE	283,919	282,998		22,844	55	488 377,580	9 235 739,835			294,839	
60	E28 - 56	80 42'06"	80 42'06"	NE	224,845	221,891		36,329	56	488 316,473	9 235 753,320			294,406	
61	E28 - 57	100 32'21"	79 27'39"	SE	225,142	221,344		-41,180	57	488 315,926	9 235 675,811			281,400	
62	E28 - 58	110 14'11"	69 45'49"	SE	161,594	151,619		-55,894	58	488 246,201	9 235 661,097			280,571	
63	E28 - 59CD	124 16'21"	55 43'39"	SE	197,645	163,328		-111,300	59CD	488 257,910	9 235 605,691			279,242	
64	E28 - 60CD	127 50'46"	52 09'14"	SE	206,460	163,034		-126,672	60CD	488 257,616	9 235 590,319			278,998	
65	E28 - 61CD	123 40'16"	56 19'44"	SE	292,094	243,090		-161,944	61CD	488 337,672	9 235 555,047			279,529	
66	E28 - 62CD	126 10'06"	53 49'54"	SE	305,762	246,838		-180,448	62CD	488 341,420	9 235 536,543			279,830	
67	E28 - 63	112 50'26"	67 09'34"	SE	296,204	272,978		-114,977	63	488 367,560	9 235 602,014			279,780	
68	E28 - 64	123 57'36"	56 02'24"	SE	412,842	342,423		-230,619	64	488 437,005	9 235 486,372			281,259	
69	E28 - 65	109 20'01"	70 39'59"	SE	371,762	350,797		-123,078	65	488 445,379	9 235 593,913			282,677	
70	E28 - 66GR	109 03'11"	70 56'49"	SE	408,736	386,344		-133,429	66GR	488 480,926	9 235 583,562			281,506	
71	E28 - 67PA	108 57'06"	71 02'54"	SE	437,345	413,638		-142,037	67PA	488 508,220	9 235 574,954			286,550	
72	E28 - 68PA	103 09'41"	76 50'19"	SE	414,733	403,839		-94,433	68PA	488 498,421	9 235 622,558			286,277	
73	E28 - 69	121 17'31"	58 42'29"	SE	487,760	416,806		-253,342	69	488 511,388	9 235 463,649			292,850	
74	E28 - 70GR	104 32'26"	75 27'34"	SE	482,419	466,967		-121,119	70GR	488 561,549	9 235 595,872			283,709	
75	E28 - 71	120 31'41"	59 28'19"	SE	570,046	491,027		-289,561	71	488 585,609	9 235 427,430			305,908	
76	E28 - 72	105 42'01"	74 17'59"	SE	539,116	519,002		-145,888	72	488 613,584	9 235 571,103			285,290	
77	E28 - 73	116 27'11"	63 32'49"	SE	581,580	520,688		-259,073	73	488 615,270	9 235 457,918			307,520	
78	E28 - 74	114 54'11"	65 05'49"	SE	538,421	488,359		-226,721	74	488 582,941	9 235 490,270			304,753	
79	E28 - 75	114 55'36"	65 04'24"	SE	538,689	488,509		-227,035	75	488 583,091	9 235 489,956			304,743	
80	E28 - 76	113 03'06"	66 56'54"	SE	477,413	439,293		-186,936	76	488 533,875	9 235 530,055			287,772	
81	E28 - 77	110 02'06"	69 57'54"	SE	676,192	635,271		-231,659	77	488 729,853	9 235 485,332			298,179	
82	E28 - 78	115 00'06"	64 59'54"	SE	390,055	353,505		-164,855	78	488 448,087	9 235 552,136			280,472	
83	E28 - 79PC	162 42'21"	17 17'39"	SE	288,717	62,047		-199,281	79PC	488 156,629	9 235 517,710			278,813	
84	E28 - 80CD	142 39'36"	37 20'24"	SE	202,381	122,753		-160,903	80CD	488 217,335	9 235 556,088			279,068	
85	E28 - 81CD	153 19'56"	26 40'04"	SE	283,488	127,234		-253,332	81CD	488 221,816	9 235 463,659			279,643	
86	E28 - 82CD	139 04'56"	40 55'04"	SE	244,558	160,179		-184,800	82CD	488 254,761	9 235 532,191			279,962	
87	E28 - 83CD	134 33'01"	45 26'59"	SE	339,463	241,913		-238,145	83CD	488 336,495	9 235 478,846			283,827	
88	E28 - 84CD	132 17'21"	47 42'39"	SE	420,888	311,355		-283,204	84CD	488 405,937	9 235 433,787			281,239	
89	E28 - 85CD	145 02'31"	34 57'29"	SE	428,406	245,467		-351,109	85CD	488 340,049	9 235 365,882			292,243	
90	E28 - 86CD	130 25'51"	49 34'09"	SE	528,769	402,493		-342,922	86CD	488 497,075	9 235 374,069			300,488	
91	E28 - 87GR	137 28'01"	42 31'59"	SE	467,686	316,163		-344,632	87GR	488 410,745	9 235 372,359			281,900	
92	E28 - 88	136 52'31"	43 07'29"	SE	530,408	362,581		-387,128	88	488 457,163	9 235 329,863			294,021	
93	E28 - 89	138 35'06"	41 24'54"	SE	571,054	377,757		-428,255	89	488 472,339	9 235 288,736			297,832	
94	E28 - 90	147 26'36"	32 33'24"	SE	492,610	265,090		-415,201	90	488 359,672	9 235 301,790			300,462	
95	E28 - 91	144 39'21"	35 20'39"	SE	520,765	301,256		-424,784	91	488 395,838	9 235 292,207			295,874	
96	E28 - 92CD	145 40'06"	34 19'54"	SE	450,411	254,024		-371,943	92CD	488 348,606	9 235 345,048			295,279	
97	E28 - 93	150 53'16"	29 06'44"	SE	505,075	245,730		-441,268	93	488 340,312	9 235 275,723			303,887	
98	E28 - 94	154 11'01"	25 48'59"	SE	473,891	206,026		-425,874	94	488 300,608	9 235 291,117			300,162	
99	E28 - 95CD	152 46'26"	27 13'34"	SE	371,776	170,889		-330,586	95CD	488 264,671	9 235 386,405			280,804	
100	E28 - 96	161 07'46"	18 52'14"	SE	424,011	137,138		-401,221	96	488 231,720	9 235 315,770			279,718	

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario										Data 09/08/96			
IN DICE	ALINHAMENT		AZIMUTE		DISTANCIA		LONG PARC		LAT PARC		COORD E (X)		COORD N (Y)		COORD (Z) DO PONTO
	EST	P V	COMPENSADO	R U M O	QD HORIZONTAL	X	(E+,W-)	Y	(N+,S-)	P V	TOT COMPENS	TOT COMPENS			
101	E28	- 97	179 03'21"	0 56'39"	SE	336,293	5,541	-336,247	97	488 100,123	9 235 380,744	279,744			
102	E28	- 98CD	173 36'11"	6 23'49"	SE	237,986	26,515	-236,504	98CD	488 121,097	9 235 480,487	279,039			
103	E28	- 99C	190 34'06"	10 34'06"	SW	182,349	-33,444	-179,256	99C	488 061,138	9 235 537,735	291,526			
104	E28	- 100C	191 46'56"	11 46'56"	SW	286,142	-58,428	-280,113	100C	488 036,154	9 235 436,878	287,810			
105	E28	- COLE	203 53'21"	23 53'21"	SW	315,510	-127,772	-288,480	COLE	487 966,810	9 235 428,511	280,872			
106	E28	- 101	210 50'46"	30 50'46"	SW	269,756	-138,313	-231,598	101	487 956,269	9 235 485,393	279,715			
107	E28	- 102C	204 23'51"	24 23'51"	SW	330,893	-136,680	-301,345	102C	487 957,902	9 235 415,646	281,302			
108	E28	- 103	208 41'51"	28 41'51"	SW	184,592	-88,638	-161,918	103	488 005,944	9 235 555,073	279,664			
109	E28	- 104C	200 23'16"	20 23'16"	SW	332,948	-115,990	-312,091	104C	487 978,592	9 235 404,900	282,966			
110	E28	- 105C	202 06'31"	22 06'31"	SW	360,666	-135,742	-334,147	105C	487 958,840	9 235 382,844	282,477			
111	E28	- 106C	203 22'06"	23 22'06"	SW	383,560	-152,135	-352,098	106C	487 942,447	9 235 364,893	282,317			
112	E28	- 107C	202 51'51"	22 51'51"	SW	419,687	-163,068	-386,712	107C	487 931,514	9 235 330,279	283,168			
113	E28	- 108C	201 27'56"	21 27'56"	SW	501,066	-183,361	-466,311	108C	487 911,221	9 235 250,680	282,582			
114	E28	- 109C	202 13'46"	22 13'46"	SW	534,415	-202,178	-494,695	109C	487 892,404	9 235 222,296	282,867			
115	E28	- 110	192 04'56"	12 04'56"	SW	381,567	-79,868	-373,115	110	488 014,714	9 235 343,876	293,881			
116	E28	- 111D	179 27'46"	0 32'14"	SE	388,752	3,645	-388,735	111D	488 098,227	9 235 328,256	283,634			
117	E28	- 112R	167 39'06"	12 20'54"	SE	468,638	100,220	-457,796	112R	488 194,802	9 235 259,195	279,871			
118	E28	- 113D	163 13'41"	16 46'19"	SE	507,895	146,560	-486,290	113D	488 241,142	9 235 230,701	297,272			
119	E28	- 114	175 12'31"	4 47'29"	SE	494,061	41,268	-492,334	114	488 135,850	9 235 224,657	289,791			
120	E28	- 115	165 56'01"	14 03'59"	SE	546,911	132,925	-530,512	115	488 227,507	9 235 186,479	293,155			
121	E28	- 116D	177 47'41"	2 12'19"	SE	557,066	21,436	-556,653	116D	488 116,018	9 235 160,338	297,078			
122	E28	- 117	176 40'56"	3 19'04"	SE	646,181	37,397	-645,098	117	488 131,979	9 235 071,893	299,709			
123	E28	- 118	173 03'36"	6 56'24"	SE	776,019	93,766	-770,333	118	488 188,348	9 234 946,658	292,328			
124	E28	- 119D	168 05'16"	11 54'44"	SE	643,499	132,827	-629,641	119D	488 227,409	9 235 087,350	284,561			
125	E28	- 120D	174 29'36"	5 30'24"	SE	853,436	81,897	-849,497	120D	488 176,479	9 234 867,494	297,551			
126	E28	- 121	171 36'51"	8 23'09"	SE	987,560	144,024	-977,001	121	488 238,606	9 234 739,990	287,859			
127	E28	- 122	170 43'46"	9 16'14"	SE	1 064,698	171,519	-1 050,792	122	488 266,101	9 234 666,199	298,697			
128	E28	- E28B	170 52'06"	9 07'54"	SE	1 092,985	173,461	-1 079,133	E28B	488 268,043	9 234 637,858	299,321			
129	E29	- E30	236 07'26"	56 07'26"	SW	364,001	-302,210	-202,894	E30	487 583,259	9 234 896,556	302,397			
130	E29	- 1	140 37'36"	39 22'24"	SE	28,066	17,804	-21,696	1	487 903,273	9 235 077,754	300,268			
131	E29	- 2	55 40'56"	55 40'56"	NE	39,676	32,769	22,369	2	487 918,238	9 235 121,819	295,246			
132	E29	- 3	75 45'41"	75 45'41"	NE	71,812	69,606	17,663	3	487 955,075	9 235 117,113	298,464			
133	E29	- 4	63 49'11"	63 49'11"	NE	162,263	145,616	71,590	4	488 031,085	9 235 171,040	299,214			
134	E29	- 5	39 10'56"	39 10'56"	NE	100,351	63,401	77,786	5	487 948,870	9 235 177,236	289,297			
135	E29	- 5CD	53 52'16"	53 52'16"	NE	189,136	152,764	111,515	5CD	488 038,233	9 235 210,965	296,639			
136	E29	- 6	34 56'31"	34 56'31"	NE	175,844	100,714	144,145	6	487 986,183	9 235 243,595	291,720			
137	E29	- 7	41 05'36"	41 05'36"	NE	220,416	144,877	166,114	7	488 030,346	9 235 265,564	298,552			
138	E29	- 8CD	28 18'26"	28 18'26"	NE	236,252	112,031	208,000	8CD	487 997,500	9 235 307,450	293,202			
139	E29	- 9	39 49'11"	39 49'11"	NE	245,463	157,188	188,531	9	488 042,657	9 235 287,981	297,293			
140	E29	- 10	27 13'26"	27 13'26"	NE	286,537	131,082	254,796	10	488 016,551	9 235 354,246	292,258			
141	E29	- 11CD	8 40'51"	8 40'51"	NE	258,809	39,062	255,844	11CD	487 924,531	9 235 355,294	281,706			
142	E29	- 12CD	353 24'31"	6 35'29"	NW	227,127	-26,071	225,626	12CD	487 859,398	9 235 325,076	280,121			
143	E29	- 13CD	8 16'01"	8 16'01"	NE	248,429	35,720	245,848	13CD	487 921,189	9 235 345,298	281,977			
144	E29	- 14CD	354 27'11"	5 32'49"	NW	284,183	-27,469	282,852	14CD	487 858,000	9 235 382,302	279,545			
145	E29	- 15CD	354 20'31"	5 39'29"	NW	302,321	-29,806	300,848	15CD	487 855,663	9 235 400,298	279,687			
146	E29	- 16CD	356 07'16"	3 52'44"	NW	361,109	-24,428	360,282	16CD	487 861,041	9 235 459,732	280,024			
147	E29	- 17CD	4 45'46"	4 45'46"	NE	327,474	27,190	326,343	17CD	487 912,659	9 235 425,793	279,734			
148	E29	- 18CD	356 43'46"	3 16'14"	NW	328,046	-18,715	327,512	18CD	487 866,754	9 235 426,962	281,608			
149	E29	- 19CD	4 40'01"	4 40'01"	NE	349,361	28,425	348,203	19CD	487 913,894	9 235 447,653	279,538			
150	E29	- 20	357 30'06"	2 29'54"	NW	464,872	-20,264	464,430	20	487 865,205	9 235 563,880	279,831			

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado			Proprietario							Data 09/08/96		
IN DICE	ALINHAMEN EST P V	AZIMUTE COMPENSADO	R U M O QD	DISTANCIA HORIZONTAL	LONG PARC X (E+,W-)	LAT PARC Y	COORD E (X) TOT COMPENS	COORD N (Y) TOT COMPENS	COORD (Z) DO PONTO			
151	E29 - 21	12 36'41"	12 36'41" NE	424,252	92,630	414,016	21 487 978,099	9 235 513,466	279,642			
152	E29 - 22CD	2 21'06"	2 21'06" NE	519,403	21,313	518,966	22CD 487 906,782	9 235 618,416	279,332			
153	E29 - 23CD	13 04'21"	13 04'21" NE	475,776	107,613	463,446	23CD 487 993,082	9 235 562,896	279,639			
154	E29 - 24CD	3 17'41"	3 17'41" NE	532,279	30,591	531,399	24CD 487 916,060	9 235 630,849	279,252			
155	E29 - 25CD	13 13'06"	13 13'06" NE	491,421	112,369	478,401	25CD 487 997,838	9 235 577,851	279,831			
156	E29 - 26	4 02'41"	4 02'41" NE	561,993	39,640	560,593	26 487 925,109	9 235 660,043	279,471			
157	E29 - 27	13 54'46"	13 54'46" NE	521,331	125,351	506,037	27 488 010,820	9 235 605,487	278,513			
158	E29 - 28R	6 28'41"	6 28'41" NE	640,641	72,279	636,551	28R 487 957,748	9 235 736,001	276,019			
159	E29 - 29MR	11 53'11"	11 53'11" NE	568,226	117,038	556,042	29MR 488 002,507	9 235 655,492	280,656			
160	E29 - 30CD	3 53'26"	3 53'26" NE	756,539	51,232	754,796	30CD 487 936,801	9 235 854,246	279,692			
161	E29 - 31CD	7 47'26"	7 47'26" NE	727,358	98,595	720,645	31CD 487 984,064	9 235 820,095	279,317			
162	E29 - 32CD	1 42'21"	1 42'21" NE	816,630	24,309	816,268	32CD 487 909,778	9 235 915,718	279,294			
163	E29 - 33CD	6 30'16"	6 30'16" NE	832,361	94,290	827,003	33CD 487 979,759	9 235 926,453	279,172			
164	E29 - 34CD	1 06'46"	1 06'46" NE	882,092	17,131	881,926	34CD 487 902,600	9 235 981,376	278,838			
165	E29 - 35	0 28'16"	0 28'16" NE	946,415	7,782	946,383	35 487 893,251	9 236 045,833	277,975			
166	E29 - 36CD	0 48'26"	0 48'26" NE	1 003,740	14,141	1 003,640	36CD 487 899,610	9 236 103,090	278,347			
167	E29 - 37CD	356 08'06"	3 51'54" NW	940,164	-63,373	938,026	37CD 487 822,096	9 236 037,476	281,532			
168	E29 - 38C	352 01'51"	7 58'09" NW	940,342	-130,369	931,261	38C 487 755,100	9 236 030,711	287,320			
169	E29 - 39C	353 44'11"	6 15'49" NW	913,902	-99,709	908,446	39C 487 785,760	9 236 007,896	284,525			
170	E29 - 40C	351 12'11"	8 47'49" NW	924,433	-141,376	913,558	40C 487 744,093	9 236 013,008	288,474			
171	E29 - 41	352 26'41"	7 33'19" NW	900,315	-118,376	892,499	41 487 767,093	9 235 991,949	285,945			
172	E29 - 42Pç	356 34'46"	3 25'14" NW	873,887	-52,140	872,330	42Pç 487 833,329	9 235 971,780	279,383			
173	E29 - 43CD	353 19'36"	6 40'24" NW	863,029	-100,291	857,182	43CD 487 785,178	9 235 956,632	281,129			
174	E29 - 44CD	357 00'26"	2 59'34" NW	819,688	-42,796	818,570	44CD 487 842,673	9 235 918,020	278,651			
175	E29 - 45	353 09'11"	6 50'49" NW	792,938	-94,532	787,283	45 487 790,937	9 235 886,733	279,449			
176	E29 - 46	356 11'26"	3 48'34" NW	748,561	-49,733	746,907	46 487 835,736	9 235 846,357	279,167			
177	E29 - 47CD	352 03'46"	7 56'14" NW	751,671	-103,797	744,470	47CD 487 781,672	9 235 843,920	279,260			
178	E29 - 48CD	356 25'31"	3 34'29" NW	706,038	-44,022	704,664	48CD 487 841,447	9 235 804,114	279,139			
179	E29 - 49CD	351 47'41"	8 12'19" NW	740,052	-105,620	732,476	49CD 487 779,849	9 235 831,926	279,240			
180	E29 - 50CD	355 48'21"	4 11'39" NW	695,277	-50,850	693,415	50CD 487 834,619	9 235 792,865	279,333			
181	E29 - 51CD	351 30'56"	8 29'04" NW	657,812	-97,054	650,613	51CD 487 788,415	9 235 750,063	279,007			
182	E29 - 52CD	357 18'46"	2 41'14" NW	601,726	-28,211	601,064	52CD 487 857,258	9 235 700,514	278,999			
183	E29 - 53CD	355 26'46"	4 33'14" NW	581,204	-46,146	579,369	53CD 487 839,323	9 235 678,819	279,186			
184	E29 - 54CD	351 24'41"	8 35'19" NW	618,416	-92,354	611,481	54CD 487 793,115	9 235 710,931	279,811			
185	E29 - 55BR	351 35'36"	8 24'24" NW	546,191	-79,852	540,322	55BR 487 805,617	9 235 639,772	279,689			
186	E29 - 56	351 11'51"	8 48'09" NW	508,897	-77,876	502,903	56 487 807,593	9 235 602,353	280,327			
187	E29 - 57	355 26'26"	4 33'34" NW	478,495	-38,037	476,981	57 487 847,432	9 235 576,431	279,708			
188	E29 - 58CD	351 20'21"	8 39'39" NW	413,134	-62,212	408,423	58CD 487 823,257	9 235 507,873	280,044			
189	E29 - 59CD	351 10'11"	8 49'49" NW	388,666	-59,663	384,059	59CD 487 825,806	9 235 483,509	280,229			
190	E29 - 60CD	351 13'21"	8 46'39" NW	316,307	-48,268	312,603	60CD 487 837,201	9 235 412,053	280,165			
191	E29 - 61CD	347 11'46"	12 48'14" NW	249,888	-55,361	243,596	61CD 487 830,108	9 235 343,046	279,768			
192	E29 - 62	347 34'21"	12 25'39" NW	161,704	-34,799	157,915	62 487 850,670	9 235 257,365	280,858			
193	E29 - 63C	357 14'31"	2 45'29" NW	120,786	-5,812	120,646	63C 487 879,657	9 235 220,096	282,701			
194	E29 - 64	337 44'56"	22 15'04" NW	83,922	-31,778	77,673	64 487 853,691	9 235 177,123	281,445			
195	E29 - 65	359 50'36"	0 09'24" NW	58,191	-0,159	58,191	65 487 885,310	9 235 157,641	285,175			
196	E29 - 66C	311 50'31"	48 09'29" NW	45,663	-34,018	30,461	66C 487 851,451	9 235 129,911	287,321			
197	E29 - 67	336 18'46"	23 41'14" NW	152,650	-61,326	139,790	67 487 824,143	9 235 239,240	280,410			
198	E29 - 68CD	340 43'36"	19 16'24" NW	282,076	-93,106	266,267	68CD 487 792,363	9 235 365,717	280,486			
199	E29 - 69	339 46'31"	20 13'29" NW	354,272	-122,473	332,429	69 487 762,996	9 235 431,879	280,551			
200	E29 - 70CD	339 27'41"	20 32'19" NW	392,780	-137,882	367,813	70CD 487 747,667	9 235 467,263	280,401			

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Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario										Data 09/08/96	
IN DICE	ALINHAMENTO		AZIMUTE		DISTANCIA		LONG PARC X (E+,W-)	LAT PARC Y (N+,S-)	COORD E (X)		COORD N (Y)		COORD (Z) DO PONTO
	EST	P V	COMPENSADO	R U M O	QD	HORIZONTAL			TOT	COMPENS	TOT	COMPENS	
201	E29	- 71R	339	43'46"	20	16'14" NW	521,572	-180,701	489,270	71R	487 704,768	9 235 588,720	276,900
202	E29	- 72CD	339	38'01"	20	21'59" NW	581,005	-202,203	544,684	72CD	487 683,266	9 235 644,134	280,177
203	E29	- 73CD	339	52'11"	20	07'49" NW	637,532	-219,410	598,587	73CD	487 666,059	9 235 698,037	278,941
204	E29	- 74	338	45'21"	21	14'39" NW	705,472	-255,623	657,531	74	487 629,846	9 235 756,981	290,693
205	E29	- 75C	341	54'41"	18	05'19" NW	879,018	-172,924	835,575	75C	487 612,545	9 235 935,025	292,671
206	E29	- 76C	342	00'31"	17	59'29" NW	840,050	-259,470	798,974	76C	487 625,999	9 235 898,424	287,139
207	E29	- 77	320	00'21"	39	59'39" NW	545,367	-350,513	417,811	77	487 534,956	9 235 517,261	279,244
208	E29	- 78R	320	53'06"	39	06'54" NW	552,272	-348,417	428,498	78R	487 537,052	9 235 527,948	278,361
209	E29	- 79CD	316	22'36"	43	37'24" NW	466,917	-322,133	337,997	79CD	487 563,336	9 235 437,447	279,766
210	E29	- 80CD	320	04'26"	39	55'34" NW	355,341	-228,058	272,501	80CD	487 657,411	9 235 371,951	280,689
211	E29	- 81R	314	28'01"	45	31'59" NW	297,115	-212,038	208,128	81R	487 673,431	9 235 307,578	277,105
212	E29	- 82	318	27'56"	41	32'04" NW	189,974	-125,966	142,206	82	487 759,503	9 235 241,656	280,504
213	E29	- 83	314	16'46"	45	43'14" NW	138,568	-99,207	96,742	83	487 786,262	9 235 196,192	280,265
214	E29	- 84	280	08'11"	79	51'49" NW	87,605	-86,238	15,418	84	487 799,231	9 235 114,868	281,160
215	E29	- 85CD	275	26'31"	84	33'29" NW	93,721	-93,299	8,888	85CD	487 792,170	9 235 108,338	280,823
216	E29	- 86CD	284	20'51"	75	39'09" NW	138,604	-134,281	34,346	86CD	487 751,188	9 235 133,796	280,729
217	E29	- 87CD	290	09'16"	69	50'44" NW	202,575	-190,171	69,798	87CD	487 695,298	9 235 169,248	280,473
218	E29	- 88	299	47'21"	60	12'39" NW	254,585	-220,918	126,465	88	487 664,551	9 235 225,915	280,960
219	E29	- 89	294	14'16"	65	45'44" NW	283,936	-258,907	116,563	89	487 626,562	9 235 216,013	280,124
220	E29	- 90	305	29'36"	54	30'24" NW	346,973	-282,500	101,455	90	487 602,969	9 235 300,905	291,318
221	E29	- 91CD	296	03'36"	63	56'24" NW	368,706	-331,221	161,977	91CD	487 554,248	9 235 261,427	295,813
222	E29	- 92	289	54'46"	70	05'14" NW	453,520	-426,405	154,464	92	487 459,064	9 235 253,914	293,897
223	E29	- 93	283	05'41"	76	54'19" NW	443,537	-432,004	100,488	93	487 453,465	9 235 199,938	293,240
224	E29	- 94	287	26'21"	72	33'39" NW	413,236	-394,242	123,844	94	487 491,227	9 235 223,294	291,266
225	E29	- 95	286	47'06"	73	12'54" NW	365,486	-349,915	105,545	95	487 535,554	9 235 204,995	288,398
226	E29	- 96GR	278	17'51"	81	42'09" NW	376,871	-372,926	54,387	96GR	487 512,543	9 235 153,837	283,236
227	E29	- 97	283	34'31"	76	25'29" NW	298,424	-290,087	70,047	97	487 595,382	9 235 169,497	284,230
228	E29	- 98	276	47'26"	83	12'34" NW	284,809	-282,811	33,676	98	487 602,658	9 235 133,126	281,042
229	E29	- 99	282	09'06"	77	50'54" NW	255,156	-249,439	53,710	99	487 636,030	9 235 153,160	280,370
230	E29	- 100	267	43'01"	87	43'01" SW	229,386	-229,204	-9,138	100	487 656,265	9 235 090,312	281,864
231	E29	- 101	268	21'26"	88	21'26" SW	195,512	-195,432	-5,605	101	487 690,037	9 235 093,845	280,172
232	E29	- 102	276	31'36"	83	28'24" NW	202,289	-200,978	22,993	102	487 684,491	9 235 122,443	280,494
233	E29	- 103R	262	23'41"	82	23'41" SW	146,774	-145,483	-19,425	103R	487 739,986	9 235 080,025	277,325
234	E29	- 104C	241	42'06"	61	42'06" SW	87,724	-77,240	-41,587	104C	487 808,229	9 235 057,863	286,321
235	E29	- 105	279	54'51"	80	05'09" NW	39,878	-39,282	6,866	105	487 846,187	9 235 106,316	286,974
236	E29	- 106	204	30'51"	24	30'51" SW	82,532	-34,244	-75,092	106	487 851,225	9 235 024,358	299,537
237	E29	- 107D	172	23'46"	7	36'14" SE	54,873	7,261	-54,390	107D	487 892,730	9 235 045,060	301,766
238	E29	- 108	257	39'51"	77	39'51" SW	220,088	-215,007	-47,020	108	487 670,462	9 235 052,430	281,677
239	E29	- 109	261	02'21"	81	02'21" SW	266,310	-263,860	-41,480	109	487 622,409	9 235 057,970	292,094
240	E29	- 110	237	51'56"	57	51'56" SW	268,605	-227,455	-142,873	110	487 658,014	9 234 956,577	284,443
241	E29	- 111G	251	45'46"	71	45'46" SW	327,792	-311,327	-102,583	111G	487 574,142	9 234 996,867	288,347
242	E29	- 112	243	04'06"	63	04'06" SW	318,356	-283,829	-144,192	112	487 601,640	9 234 955,258	300,313
243	E30	- E34A	203	00'16"	23	00'16" SW	530,580	-207,352	-488,385	E34A	487 375,907	9 234 408,171	304,962
244	E30	- 1	117	19'11"	62	40'49" SE	120,065	106,673	-55,104	1	487 689,932	9 234 841,452	277,756
245	E30	- 2R	87	50'06"	87	50'06" NE	140,637	140,537	5,313	2R	487 723,796	9 234 901,869	277,517
246	E30	- 3C	96	48'26"	83	11'34" SE	177,933	176,679	-21,090	3C	487 759,938	9 234 875,466	282,636
247	E30	- 4C	97	50'36"	82	09'24" SE	196,625	194,786	-26,832	4C	487 778,045	9 234 869,724	284,864
248	E30	- 5	93	57'36"	86	02'24" SE	237,845	237,277	-16,426	5	487 820,536	9 234 880,130	281,748
249	E30	- 6C	106	07'26"	73	52'34" SE	207,611	199,444	-57,657	6C	487 782,703	9 234 838,899	287,177
250	E30	- 7	91	37'41"	88	22'19" SE	288,639	288,522	-8,201	7	487 871,781	9 234 888,355	295,917

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario										Data 09/08/96			
IN	ALINHAMEN	AZIMUTE		DISTANCIA		LONG	PARC	LAT	PARC	COORD E (X)		COORD N (Y)		COORD (Z)	
DICE	EST P V	COMPENSADO	R U M O	QD	HORIZONTAL	X	(E+,W-)	Y	(N+,S-)	P V	TOT	COMPENS	TOT	COMPENS	DO PONTO
251	E30 - 8C	110 10'56"	69 49'04"	SE	233,349	219,021	-80,507	8C	487 802,280	9 234 816,049	291,282				
252	E30 - 9GR	98 15'36"	81 44'24"	SE	336,209	332,721	-48,302	9GR	487 915,980	9 234 848,254	284,683				
253	E30 - 10	107 58'31"	72 01'29"	SE	377,015	358,613	-116,349	10	487 941,872	9 234 780,207	297,396				
254	E30 - 11	116 47'11"	63 12'49"	SE	323,205	288,523	-145,657	11	487 871,782	9 234 750,899	293,199				
255	E30 - 12	119 12'16"	60 47'44"	SE	336,952	294,120	-164,408	12	487 877,379	9 234 732,148	239,315				
256	E30 - 13Pç	118 04'21"	61 55'39"	SE	164,383	145,044	-77,357	13Pç	487 728,303	9 234 819,199	280,678				
257	E30 - 14R	159 45'51"	20 14'09"	SE	161,581	55,888	-151,608	14R	487 639,147	9 234 744,948	277,831				
258	E30 - 15CD	160 45'06"	19 14'54"	SE	273,820	90,268	-258,513	15CD	487 673,527	9 234 638,043	280,838				
259	E30 - 16	145 41'56"	34 18'04"	SE	261,149	147,168	-215,732	16	487 730,427	9 234 680,824	281,966				
260	E30 - 17R	172 26'21"	7 33'39"	SE	223,592	29,420	-221,648	17R	487 612,679	9 234 674,908	278,024				
261	E30 - 18	137 31'01"	42 28'59"	SE	326,721	220,658	-240,949	18	487 803,917	9 234 655,607	299,617				
262	E30 - 19CD	154 49'26"	25 10'34"	SE	331,859	141,173	-300,334	19CD	487 724,432	9 234 596,222	291,395				
263	E30 - 20Pç	149 17'11"	30 42'49"	SE	281,334	143,691	-241,872	20Pç	487 726,950	9 234 654,684	282,227				
264	E30 - 21CD	145 23'31"	34 36'29"	SE	454,310	258,030	-373,923	21CD	487 841,289	9 234 522,633	303,645				
265	E30 - 22CD	156 19'46"	23 40'14"	SE	437,637	175,701	-400,818	22CD	487 758,960	9 234 495,738	300,024				
266	E30 - 23R	145 31'26"	34 28'34"	SE	695,552	393,726	-573,387	23R	487 976,985	9 234 323,169	303,991				
267	E30 - 24	148 06'36"	31 53'24"	SE	704,189	372,016	-597,901	24	487 955,275	9 234 298,655	308,213				
268	E30 - 25	149 52'31"	30 07'29"	SE	676,767	339,659	-585,359	25	487 922,918	9 234 311,197	304,159				
269	E30 - 26C	177 10'31"	2 49'29"	SE	515,700	25,414	-515,073	26C	487 608,673	9 234 381,483	287,345				
270	E30 - 27C	177 10'31"	2 49'29"	SE	533,023	26,268	-532,375	27C	487 609,527	9 234 364,181	285,446				
271	E30 - 28C	176 08'11"	3 51'49"	SE	642,787	43,312	-641,326	28C	487 626,571	9 234 255,230	287,632				
272	E30 - 29R	171 42'51"	8 17'09"	SE	612,763	88,306	-606,367	29R	487 671,565	9 234 290,189	280,867				
273	E30 - 30	172 57'06"	7 02'54"	SE	703,005	86,263	-697,692	30	487 669,522	9 234 198,864	290,438				
274	E30 - 31	165 06'46"	14 53'14"	SE	877,023	225,322	-847,584	31	487 808,581	9 234 048,972	301,240				
275	E30 - 32	168 29'11"	11 30'49"	SE	326,414	65,152	-319,846	32	487 648,411	9 234 576,710	281,124				
276	E30 - 33R	185 17'46"	5 17'46"	SW	482,380	-44,525	-480,321	33R	487 538,734	9 234 416,235	278,241				
277	E30 - 34R	179 28'16"	0 31'44"	SE	279,615	2,581	-279,603	34R	487 585,840	9 234 616,953	277,954				
278	E30 - 35CD	187 28'46"	7 28'46"	SW	657,873	-85,636	-652,276	35CD	487 497,623	9 234 244,280	281,755				
279	E30 - 36CD	183 35'16"	3 35'16"	SW	682,264	-42,694	-680,927	36CD	487 540,565	9 234 215,629	284,360				
280	E30 - 37CD	177 52'16"	2 07'44"	SE	731,296	27,166	-730,791	37CD	487 610,425	9 234 165,765	294,562				
281	E30 - 38CD	182 12'11"	2 12'11"	SW	738,696	-28,396	-738,150	38CD	487 554,863	9 234 158,406	297,034				
282	E30 - 39CD	188 18'06"	8 18'06"	SW	685,193	-98,932	-678,013	39CD	487 484,327	9 234 218,543	281,842				
283	E30 - 40CD	191 11'46"	11 11'46"	SW	670,317	-130,154	-657,560	40CD	487 453,105	9 234 238,996	281,349				
284	E30 - 41	190 34'21"	10 34'21"	SW	242,656	-44,522	-238,537	41	487 538,737	9 234 658,019	291,960				
285	E30 - 42CD	195 07'36"	15 07'36"	SW	565,522	-147,575	-545,927	42CD	487 435,684	9 234 350,629	287,735				
286	E30 - 43CD	190 35'21"	10 35'21"	SW	637,258	-117,106	-626,406	43CD	487 466,153	9 234 270,150	281,493				
287	E30 - 44CD	191 00'36"	11 00'36"	SW	592,099	-113,079	-581,201	44CD	487 470,180	9 234 315,355	281,577				
288	E30 - 45	189 52'36"	9 52'36"	SW	521,412	-89,437	-513,684	45	487 493,822	9 234 382,872	281,636				
289	E30 - 46CD	196 18'21"	16 18'21"	SW	496,694	-139,454	-476,715	46CD	487 443,805	9 234 419,841	292,413				
290	E30 - 47CD	186 25'11"	6 25'11"	SW	417,352	-46,665	-414,735	47CD	487 536,594	9 234 481,821	281,695				
291	E30 - 48CD	196 24'31"	16 24'31"	SW	379,559	-107,220	-364,100	48CD	487 476,039	9 234 532,456	282,358				
292	E30 - 49CD	179 40'06"	0 19'54"	SE	259,275	1,501	-259,271	49CD	487 584,760	9 234 637,285	279,670				
293	E30 - 50CD	194 05'41"	14 05'41"	SW	224,851	-54,757	-218,082	50CD	487 528,502	9 234 678,474	284,068				
294	E30 - 51C	193 18'36"	13 18'36"	SW	89,881	-20,692	-87,467	51C	487 562,567	9 234 809,089	284,080				
295	E30 - 52CD	148 42'11"	31 17'49"	SE	121,169	62,944	-103,537	52CD	487 646,203	9 234 793,019	281,055				
296	E30 - 53CD	184 46'41"	4 46'41"	SW	45,069	-3,754	-44,912	53CD	487 579,505	9 234 851,644	292,484				
297	E30 - 54C	146 05'06"	33 54'54"	SE	68,167	38,035	-56,569	54C	487 621,294	9 234 839,987	283,885				
298	E30 - 55CD	244 02'16"	64 02'16"	SW	46,861	-42,132	-20,515	55CD	487 541,127	9 234 876,041	302,016				
299	E30 - 56C	195 27'56"	15 27'56"	SW	213,487	-56,928	-205,757	56C	487 526,331	9 234 690,799	285,953				
300	E30 - 57	246 04'56"	66 04'56"	SW	144,771	-132,339	-58,694	57	487 450,920	9 234 837,862	301,928				

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario										Data 09/08/96	
IN DICE	ALINHAMENTO EST P V	AZIMUTE COMPENSADO		R U M O QD		DISTANCIA HORIZONTAL	LONG PARC X	PARC (E+,W-)	LAT PARC Y	COORD E (X) TOT	COORD N (Y) TOT	COORD (Z) DO PONTO	
301	E30 - 58	239	41'21"	59	41'21"	SW	196,474	-169,616	-99,159	58	487 413,643	9 234 797,397	302,380
302	E30 - 59	227	09'51"	47	09'51"	SW	303,527	-222,578	-206,368	59	487 360,681	9 234 690,188	305,935
303	E30 - 60CD	226	44'31"	46	44'31"	SW	208,507	-151,850	-142,887	60CD	487 431,409	9 234 753,669	294,726
304	E30 - 61	233	16'31"	53	16'31"	SW	273,020	-218,830	-163,258	61	487 364,429	9 234 733,298	301,223
305	E30 - 62	205	52'51"	25	52'51"	SW	392,310	-171,244	-352,963	62	487 412,015	9 234 543,593	301,612
306	E30 - 63	240	13'36"	60	13'36"	SW	325,756	-282,755	-161,761	63	487 300,504	9 234 734,795	304,881
307	E30 - 64	236	42'46"	56	42'46"	SW	338,534	-282,991	-185,800	64	487 300,268	9 234 710,756	298,908
308	E30 - 65CD	234	24'21"	54	24'21"	SW	370,092	-300,944	-215,408	65CD	487 282,315	9 234 681,148	308,477
309	E30 - 66C	198	21'41"	18	21'41"	SW	472,232	-148,758	-448,190	66C	487 434,501	9 234 448,366	296,361
310	E30 - 67C	203	51'26"	23	51'26"	SW	469,093	-189,729	-429,012	67C	487 393,530	9 234 467,544	304,299
311	E30 - 68C	205	16'11"	25	16'11"	SW	503,725	-215,030	-455,523	68C	487 368,229	9 234 441,033	307,235
312	E34A - E36	198	01'11"	18	01'11"	SW	393,945	-121,865	-374,622	E36	487 254,042	9 234 033,549	289,576
313	E34A - 1C	306	17'22"	53	42'38"	NW	58,464	-47,124	34,603	1C	487 328,783	9 234 442,774	304,523
314	E34A - 2C	194	53'56"	14	53'56"	SW	36,444	-9,370	-35,219	2C	487 366,537	9 234 372,952	301,254
315	E34A - 3C	194	04'46"	14	04'46"	SW	49,362	-12,008	-47,879	3C	487 363,899	9 234 360,292	300,366
316	E34A - 4C	294	00'36"	65	59'24"	NW	116,305	-106,242	47,324	4C	487 269,665	9 234 455,495	304,751
317	E34A - 5C	210	26'21"	30	26'21"	SW	57,905	-29,336	-49,924	5C	487 346,571	9 234 358,247	300,566
318	E34A - 6	279	05'16"	80	54'44"	NW	156,013	-154,055	24,642	6	487 221,852	9 234 432,813	304,903
319	E34A - 7C	269	37'41"	89	37'41"	SW	141,093	-141,090	-0,916	7C	487 234,817	9 234 407,255	302,857
320	E34A - 8C	173	09'36"	6	50'24"	SE	59,046	7,032	-58,626	8C	487 382,939	9 234 349,545	296,760
321	E34A - 9C	153	49'46"	26	10'14"	SE	59,389	26,193	-53,301	9C	487 402,100	9 234 354,870	294,977
322	E34A - 10	254	48'01"	74	48'01"	SW	223,375	-215,561	-58,565	10	487 160,346	9 234 349,606	297,002
323	E34A - 11C	192	13'21"	12	13'21"	SW	85,144	-18,026	-83,214	11C	487 357,881	9 234 324,957	289,538
324	E34A - 12CD	257	46'21"	77	46'21"	SW	144,079	-140,810	-30,515	12CD	487 235,097	9 234 377,656	295,656
325	E34A - 13C	258	14'01"	78	14'01"	SW	108,803	-106,517	-22,187	13C	487 269,390	9 234 385,984	297,195
326	E34A - 14C	206	29'11"	26	29'11"	SW	93,090	-41,517	-83,319	14C	487 334,390	9 234 324,852	295,677
327	E34A - 15C	183	32'31"	3	32'31"	SW	108,941	-6,730	-108,733	15C	487 369,177	9 234 299,438	292,343
328	E34A - 16C	182	59'56"	2	59'56"	SW	94,457	-4,942	-94,328	16C	487 370,965	9 234 323,843	292,091
329	E34A - 17	166	10'16"	13	49'44"	SE	327,690	78,325	-318,192	17	487 454,232	9 234 089,979	289,849
330	E34A - 18BR	170	31'31"	9	28'29"	SE	288,828	47,545	-284,888	18BR	487 423,452	9 234 123,283	280,445
331	E34A - 19	161	38'16"	18	21'44"	SE	340,892	107,389	-323,535	19	487 483,296	9 234 084,636	296,307
332	E34A - 20	186	37'46"	6	37'46"	SW	448,146	-51,737	-445,150	20	487 324,170	9 233 963,021	277,945
333	E34A - 21CD	185	06'11"	5	06'11"	SW	479,245	-42,265	-477,345	21CD	487 333,279	9 233 930,826	281,277
334	E34A - 22CD	180	36'11"	0	36'11"	SW	500,194	-5,268	-500,166	22CD	487 370,642	9 233 908,005	291,969
335	E34A - 23CD	189	43'11"	9	43'11"	SW	632,947	-106,860	-623,861	23CD	487 269,047	9 233 784,310	282,142
336	E34A - 24	179	48'16"	0	11'44"	SE	588,014	2,007	-588,011	24	487 377,914	9 233 820,160	293,627
337	E34A - 25CD	184	23'56"	4	23'56"	SW	664,441	-50,962	-662,484	25CD	487 324,945	9 233 745,687	292,094
338	E34A - 26C	184	29'46"	4	29'46"	SW	671,777	-52,662	-669,710	26C	487 323,245	9 233 738,461	293,237
339	E34A - 27C	187	08'01"	7	08'01"	SW	725,880	-90,142	-720,261	27C	487 285,765	9 233 687,910	291,632
340	E34A - 28Pq	189	56'16"	9	56'16"	SW	663,123	-114,441	-653,173	28Pq	487 261,466	9 233 754,998	282,302
341	E34A - 29CD	183	03'51"	3	03'51"	SW	372,858	-19,931	-372,325	29CD	487 355,976	9 234 035,846	278,188
342	E34A - 30CD	174	31'31"	5	28'29"	SE	403,710	38,517	-401,868	30CD	487 414,424	9 234 006,303	293,929
343	E36 - E37	175	04'06"	4	55'54"	SE	394,041	33,875	-392,582	E37	487 287,917	9 233 640,967	297,331
344	E36 - 1C	348	54'41"	11	05'19"	NW	47,695	-9,173	46,805	1C	487 244,869	9 234 080,354	283,744
345	E36 - 2C	20	27'41"	20	27'41"	NE	29,575	10,339	27,709	2C	487 264,381	9 234 061,258	284,365
346	E36 - 3D	202	41'16"	22	41'16"	SW	41,749	-16,103	-38,518	3D	487 237,939	9 233 995,031	285,089
347	E36 - 4C	192	47'56"	12	47'56"	SW	100,058	-22,166	-97,572	4C	487 231,876	9 233 935,977	283,189
348	E36 - 5D	202	19'56"	22	19'56"	SW	157,948	-60,017	-146,101	5D	487 194,025	9 233 887,448	286,191
349	E36 - 6D	193	03'26"	13	03'26"	SW	316,854	-71,585	-308,662	6D	487 182,457	9 233 724,887	282,138
350	E37 - E38	168	48'01"	11	11'59"	SE	240,286	46,671	-235,710	E38	487 334,588	9 233 405,257	303,851

Imovel BARRAGEM ROARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario								Data 09/08/96		
IN DICE	ALINHAMEN EST P V	AZIMUTE COMPENSADO	R U M O QD	DISTANCIA HORIZONTAL	LONG PARC X (E+,W-)	LAT PARC Y (N+,-)	P V	COORD E (X) TOT	COORD N (Y) COMPENS TOT	COORD (Z) COMPENS DO PONTO		
351	E37 - 1D	356 30'16"	3 21'44" NW	13,069	-0,766	13,047	1D	487 287,151	9 233 654,014	296,032		
352	E37 - 2C	167 11'51"	12 48'09" SE	93,789	20,783	-91,457	2C	487 308,700	9 233 549,510	293,505		
353	E37 - 3C	175 37'26"	4 22'34" SE	163,287	12,459	-162,811	3C	487 300,376	9 233 478,156	289,423		
354	E37 - 4R	306 26'06"	53 33'54" NW	167,717	-134,934	99,609	4R	487 152,983	9 233 740,576	278,811		
355	E37 - 5R	180 02'41"	0 02'41" SW	234,350	-0 183	-234,350	5R	487 287,734	9 233 406,617	290,972		
356	E37 - 6D	307 33'16"	52 26'44" NW	198,168	-157,103	120,786	6D	487 130,814	9 233 761,753	282,403		
357	E37 - 7	171 47'31"	8 12'29" SE	247,631	35,354	-245,094	7	487 323,271	9 233 395,873	300,526		
358	E37 - 8D	306 50'46"	53 09'14" NW	263,145	-210,582	157,800	8D	487 077,335	9 233 798,767	291,512		
359	E37 - 9CL	310 59'06"	49 00'54" NW	245,879	-185,609	161,263	9CL	487 102,308	9 233 802,230	293,814		
360	E37 - 10C	316 35'41"	43 24'19" NW	245,498	-168,695	178,357	10C	487 119,222	9 233 819,324	295,599		
361	E37 - 11C	323 10'46"	36 49'14" NW	239,363	-143,453	191,614	11C	487 144,464	9 233 832,581	291,342		
362	E37 - 12D	172 31'16"	7 28'44" SE	441,024	57,404	-437,272	12D	487 345,321	9 233 203,695	302,830		
363	E37 - 13D	286 23'36"	73 36'24" NW	311,694	-299,023	87,969	13D	486 988,894	9 233 728,936	289,107		
364	E37 - 14D	176 49'11"	3 10'49" SE	413,769	22,955	-413,132	14D	487 310,872	9 233 227,835	290,155		
365	E37 - 15D	282 56'16"	77 03'44" NW	322,405	-314,220	72,184	15D	486 973,697	9 233 713,151	291,328		
366	E37 - 16D	183 58'16"	3 58'16" SW	380,624	-26,360	-379,710	16D	487 261,557	9 233 261,257	282,256		
367	E37 - 17C	275 29'26"	84 30'34" NW	243,876	-242,757	23,334	17C	487 045,160	9 233 664,301	286,749		
368	E37 - 18DR	185 04'11"	5 04'11" SW	313,027	-27,662	-311,802	18DR	487 260,255	9 233 329,165	282,454		
369	E37 - 19C	266 38'41"	86 38'41" SW	209,981	-209,621	-12,290	19C	487 078,296	9 233 628,677	287,050		
370	E37 - 20D	197 24'26"	17 24'26" SW	245,422	-73,421	-234,182	20D	487 214,496	9 233 406,785	283,051		
371	E37 - 21D	197 20'46"	17 20'46" SW	235,815	-70,307	-225,090	21D	487 217,610	9 233 415,877	282,857		
372	E37 - 22D	199 19'41"	19 19'41" SW	213,829	-70,772	-201,777	22D	487 217,145	9 233 439,190	283,003		
373	E37 - 23D	257 41'11"	77 41'11" SW	243,199	-237,604	-51,865	23D	487 050,313	9 233 589,102	296,330		
374	E37 - 24D	204 27'16"	24 27'16" SW	179,820	-74,440	-163,688	24D	487 213,477	9 233 477,279	282,608		
375	E37 - 25C	252 42'26"	72 42'26" SW	252,995	-241,559	-75,204	25C	487 046,358	9 233 565,763	296,734		
376	E37 - 26D	230 39'21"	50 39'21" SW	199,090	-153,967	-126,219	26D	487 133,950	9 233 514,748	282,421		
377	E37 - 27D	231 12'36"	51 12'36" SW	186,259	-145,179	-116,685	27D	487 142,738	9 233 524,282	282,216		
378	E37 - 28C	251 24'06"	71 24'06" SW	266,347	-252,438	-84,947	28C	487 035,479	9 233 556,020	297,381		
379	E37 - 29D	252 23'11"	72 23'11" SW	277,569	-264,556	-83,991	29D	487 023,361	9 233 556,976	300,642		
380	E37 - 30C	251 38'06"	71 38'06" SW	290,344	-275,556	-91,478	30C	487 012,361	9 233 549,489	301,373		
381	E37 - 31D	234 58'31"	54 58'31" SW	162,979	-133,464	-93,539	31D	487 154,453	9 233 547,428	282,613		
382	E37 - 32C	241 25'41"	61 25'41" SW	276,966	-243,236	-132,462	32C	487 044,681	9 233 508,505	289,532		
383	E37 - 33D	250 55'31"	70 55'31" SW	138,017	-130,439	-45,104	33D	487 157,478	9 233 595,863	282,356		
384	E37 - 34D	262 17'01"	82 17'01" SW	135,089	-133,866	-18,138	34D	487 154,051	9 233 622,829	281,989		
385	E37 - 35D	239 47'16"	59 47'16" SW	292,007	-252,343	-146,939	35D	487 035,574	9 233 494,028	288,754		
386	E37 - 36D	234 30'46"	54 30'46" SW	29,550	-24,061	-17,154	36D	487 263,856	9 233 623,813	292,095		
387	E37 - 37C	230 33'06"	50 33'06" SW	316,152	-244,132	-200,877	37C	487 043,785	9 233 440,090	284,926		
388	E37 - 38D	230 32'16"	50 32'16" SW	349,608	-269,913	-222,200	38D	487 018,004	9 233 418,767	287,121		
389	E37 - 39C	234 38'31"	54 38'31" SW	367,038	-299,338	-212,399	39C	486 988,579	9 233 428,568	292,088		
390	E38 - E39	198 18'16"	18 18'16" SW	563,493	-176,974	-534,981	E39	487 157,614	9 232 870,276	283,798		
391	E38 - 1R	298 50'06"	61 09'54" NW	116,907	-102,412	56,383	1R	487 232,176	9 233 461,640	279,193		
392	E38 - 2D	270 01'21"	89 58'39" NW	336,903	-336,903	0,132	2D	486 997,685	9 233 405,389	287,145		
393	E38 - 3C	256 12'41"	76 12'41" SW	326,727	-317,311	-77,872	3C	487 017,277	9 233 327,385	286,162		
394	E38 - 4C	256 11'01"	76 11'01" SW	346,588	-336,560	-82,769	4C	486 998,028	9 233 322,488	287,378		
395	E38 - 5C	254 19'41"	74 19'41" SW	366,934	-353,293	-99,120	5C	486 981,295	9 233 306,137	289,523		
396	E38 - 6D	265 39'31"	85 39'31" SW	425,555	-424,334	-32,214	6D	486 910,254	9 233 373,043	292,076		
397	E38 - 7C	252 17'06"	72 17'06" SW	378,483	-360,536	-115,166	7C	486 974,052	9 233 290,091	290,100		
398	E38 - 8C	251 27'01"	71 27'01" SW	414,313	-392,789	-131,804	8C	486 941,799	9 233 273,453	291,017		
399	E38 - 9C	250 29'36"	70 29'36" SW	430,035	-405,352	-143,596	9C	486 929,236	9 233 261,661	293,322		
400	E38 - 10D	262 10'56"	82 10'56" SW	451,604	-447,407	-61,429	10D	486 887,181	9 233 343,828	293,088		

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado

Proprietario

Data 09/08/96

IN DICE	ALINHAMEN EST P V		AZIMUTE COMPENSADO R U M O QD		DISTANCIA HORIZONTAL	LONG PARC X (E+,W-)	LAT PARC Y (N+,S-)	COORD E (X) TOT	COORD N (Y) TOT	COORD (Z) DO PONTO			
	P	V	COMPENSADO	R U M O QD									
401	E38	-	11D	254 25'46"	74 25'46"	SW	474,164	-456,762	-127,277	11D	486 877,826	9 233 277,980	286,949
402	E38	-	12C	242 49'26"	62 49'26"	SW	418,588	-372,379	-191,180	12C	486 962,209	9 233 214,077	296,379
403	E38	-	13C	242 29'06"	62 29'06"	SW	436,298	-386,948	-201,561	13C	486 947,640	9 233 203,696	298,045
404	E38	-	14	259 27'36"	79 27'36"	SW	542,281	-533,131	-99,195	14	486 801,457	9 233 306,062	290,246
405	E38	-	15D	246 58'56"	66 58'56"	SW	501,692	-461,749	-196,170	15D	486 872,839	9 233 209,087	302,409
406	E38	-	16C	240 45'01"	60 45'01"	SW	459,939	-401,296	-224,734	16C	486 933,292	9 233 180,523	300,317
407	E38	-	17C	240 34'16"	60 34'16"	SW	257,069	-223,898	-126,309	17C	487 110,690	9 233 278,948	296,224
408	E38	-	18C	254 24'21"	74 24'21"	SW	224,701	-216,430	-60,405	18C	487 118,158	9 233 344,852	291,335
409	E38	-	19D	232 19'56"	52 19'56"	SW	183,849	-145,529	-112,347	19D	487 189,059	9 233 292,910	285,938
410	E38	-	20R	202 45'41"	22 45'41"	SW	250,439	-96,893	-230,936	20R	487 237,695	9 233 174,321	279,224
411	E38	-	21R	202 28'31"	22 28'31"	SW	160,962	-61,533	-148,736	21R	487 273,055	9 233 256,521	279,513
412	E38	-	22	208 55'26"	28 55'26"	SW	264,543	-127,946	-231,545	22	487 206,642	9 233 173,712	292,337
413	E38	-	23GR	194 09'01"	14 09'01"	SW	74,705	-18,263	-72,438	23GR	487 316,325	9 233 332,819	287,218
414	E38	-	24D	205 42'06"	25 42'06"	SW	378,655	-164,217	-341,193	24D	487 170,371	9 233 064,064	282,881
415	E38	-	25D	188 37'16"	8 37'16"	SW	410,931	-61,598	-406,288	25D	487 272,990	9 232 998,969	287,378
416	E38	-	26GR	157 28'51"	22 31'09"	SE	75,338	28,854	-69,594	26GR	487 363,442	9 233 335,663	294,890
417	E38	-	27D	195 10'11"	15 10'11"	SW	496,321	-129,877	-479,027	27D	487 204,711	9 232 926,230	284,098
418	E38	-	28GR	47 04'21"	47 04'21"	NE	123,513	90,438	84,121	28GR	487 425,026	9 233 489,378	294,626
419	E39	-	E40	212 34'46"	32 34'46"	SW	184,373	-99,279	-155,361	E40	487 058,335	9 232 714,915	295,798
420	E39	-	1RD	357 57'26"	2 02'34"	NW	88,084	-3,140	88,028	1RD	487 154,474	9 232 958,304	281,145
421	E39	-	2D	342 06'16"	17 53'44"	NW	114,529	-35,193	108,988	2D	487 122,421	9 232 979,264	283,827
422	E39	-	3RD	15 18'21"	15 18'21"	NE	47,042	12,418	45,373	3RD	487 170,032	9 232 915,649	282,313
423	E39	-	4D	332 10'56"	27 49'04"	NW	91,298	-42,605	80,747	4D	487 115,009	9 232 951,023	286,456
424	E39	-	5RD	68 34'31"	68 34'31"	NE	21,631	20,136	7,901	5RD	487 177,750	9 232 878,177	283,147
425	E39	-	6D	319 20'26"	40 39'34"	NW	63,112	-41,121	47,876	6D	487 116,493	9 232 918,152	289,401
426	E39	-	7R	139 17'56"	40 42'04"	SE	85,678	55,872	-64,954	7R	487 213,486	9 232 805,322	280,257
427	E39	-	8D	168 35'41"	11 24'19"	SE	154,046	30,462	-151,004	8D	487 188,076	9 232 719,272	284,417
428	E39	-	9C	231 42'06"	51 42'06"	SW	94,488	-74,154	-58,560	9C	487 083,460	9 232 811,716	287,190
429	E39	-	10D	215 26'41"	35 26'41"	SW	107,605	-62,402	-87,663	10D	487 095,212	9 232 782,613	286,438
430	E39	-	11Pç	189 39'11"	9 39'11"	SW	176,073	-29,524	-173,580	11Pç	487 128,090	9 232 696,696	285,152
431	E39	-	12C	192 29'56"	12 29'56"	SW	176,516	-38,202	-172,333	12C	487 119,412	9 232 697,943	285,384
432	E40	-	E41	176 19'21"	3 40'39"	SE	255,082	16,361	-254,557	E41	487 074,696	9 232 460,358	281,629
433	E40	-	1D	346 24'36"	13 35'24"	NW	113,117	-26,579	109,950	1D	487 031,756	9 232 824,865	292,356
434	E40	-	2	67 48'26"	67 48'26"	NE	219,306	203,059	82,837	2	487 261,394	9 232 797,752	294,037
435	E40	-	3R	113 32'06"	66 27'54"	SE	177,829	163,037	-71,009	3R	487 221,372	9 232 643,906	280,565
436	E40	-	4D	42 17'21"	42 17'21"	NE	255,810	172,128	189,238	4D	487 230,463	9 232 904,153	287,655
437	E40	-	5D	136 58'51"	43 01'09"	SE	327,166	223,207	-239,199	5D	487 281,542	9 232 475,716	283,751
438	E40	-	6C	90 32'36"	89 27'24"	SE	238,526	238,515	-2,262	6C	487 296,850	9 232 712,653	299,285
439	E40	-	7	121 17'01"	58 42'59"	SE	297,451	254,204	-154,459	7	487 312,539	9 232 560,456	287,449
440	E40	-	8R	118 52'51"	61 07'09"	SE	188,518	165,071	-91,052	8R	487 223,406	9 232 623,863	283,514
441	E40	-	9D	148 07'21"	31 52'39"	SE	154,260	81,465	-130,994	9D	487 139,800	9 232 583,921	284,778
442	E40	-	10D	169 48'01"	10 11'59"	SE	175,244	31,032	-172,475	10D	487 089,367	9 232 542,440	284,460
443	E40	-	11C	176 32'06"	3 27'54"	SE	277,503	16,772	-276,996	11C	487 075,107	9 232 437,919	286,534
444	E40	-	12C	172 02'31"	7 57'29"	SE	257,427	35,640	-254,948	12C	487 093,975	9 232 459,967	286,902
445	E40	-	13C	162 02'06"	17 57'54"	SE	235,032	72,492	-223,573	13C	487 130,827	9 232 491,342	285,979
446	E40	-	14D	155 07'46"	24 52'14"	SE	156,077	65,641	-141,602	14D	487 123,976	9 232 573,313	290,605
447	E40	-	15C	152 53'41"	27 06'19"	SE	248,101	113,041	-220,852	15C	487 171,376	9 232 494,063	287,242
448	E40	-	16C	147 54'56"	32 05'04"	SE	266,017	141,380	-225,387	16C	487 199,635	9 232 489,528	285,822
449	E40	-	17C	147 50'06"	32 09'54"	SE	307,321	163,605	-260,153	17C	487 221,940	9 232 454,762	286,732
450	E40	-	18C	147 03'11"	32 56'49"	SE	326,217	177,417	-273,753	18C	487 235,752	9 232 441,162	286,976

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario										Data 09/08/96		
IN	ALINHAMEN	AZIMUTE		DISTANCIA		LONG	PARC	LAT	PARC	COORD E (X)		COORD N (Y)		COORD (Z)
DICE	EST P V	COMPENSADO	R U M O	QD	HORIZONTAL	X - (E+,W-)	Y	(N+,S-)	P V	TOT	COMPENS	TOT	COMPENS	DO PONTO
451	E40 - 19C	148 21'11"	31 38'49"	SE	385,896	202,473	-328,512	19C	487 260,808	9 232 386,403	287,314			
452	E40 - 20C	148 51'11"	31 08'49"	SE	460,206	238,035	-393,864	20C	487 296,370	9 232 321,051	288,045			
453	E40 - 21R	137 08'51"	42 51'09"	SE	634,485	431,522	-465,145	21R	487 489,857	9 232 249,770	284,920			
454	E41 - E42	261 19'06"	81 19'06"	SW	208,267	-205,881	-31,437	E42	486 868,815	9 232 428,921	281,168			
455	E41 - 1D	137 53'36"	42 06'24"	SE	27,212	18,246	-20,189	1D	487 092,942	9 232 440,169	284,397			
456	E41 - 2R	311 37'46"	48 22'14"	NW	93,710	-70,044	62,253	2R	487 004,652	9 232 522,611	277,507			
457	E41 - 3D	250 38'36"	70 38'36"	SW	31,908	-30,104	-10,576	3D	487 044,592	9 232 449,782	281,680			
458	E41 - 4D	308 46'21"	51 13'39"	NW	105,038	-81,892	65,778	4D	486 992,804	9 232 526,136	279,556			
459	E41 - 5D	260 01'36"	80 01'36"	SW	56,642	-55,786	-9,810	5D	487 018,910	9 232 450,548	281,079			
460	E41 - 6D	291 51'41"	68 08'19"	NW	95,260	-88,410	35,471	6D	486 986,286	9 232 495,829	279,376			
461	E41 - 7D	262 05'41"	82 05'41"	SW	131,006	-129,761	-18,018	7D	486 944,935	9 232 442,340	279,930			
462	E41 - 8D	281 56'26"	78 03'34"	NW	96,093	-94,014	19,881	8D	486 980,682	9 232 480,239	279,258			
463	E41 - 9D	278 48'01"	81 11'59"	NW	191,621	-189,365	29,316	9D	486 885,331	9 232 489,674	281,283			
464	E41 - 10D	12 21'21"	12 21'21"	NE	172,947	37,008	168,941	10D	487 111,704	9 232 629,299	279,532			
465	E41 - 11D	356 35'26"	3 24'34"	NW	214,075	-12,731	213,696	11D	487 061,965	9 232 674,054	287,663			
466	E41 - 12D	348 03'41"	11 56'19"	NW	166,102	-34,360	162,509	12D	487 040,336	9 232 622,867	280,464			
467	E41 - 13D	336 04'41"	23 55'19"	NW	230,760	-93,571	210,937	13D	486 981,125	9 232 671,295	294,221			
468	E42 - E43	254 04'06"	74 04'06"	SW	285,927	-274,944	-78,484	E43	486 593,871	9 232 350,437	288,348			
469	E42 - 1D	190 02'26"	10 02'26"	SW	56,068	-9,775	-55,209	1D	486 859,040	9 232 373,712	282,078			
470	E42 - 2R	144 51'31"	35 08'29"	SE	144,670	83,271	-118,302	2R	486 952,086	9 232 310,619	278,673			
471	E42 - 3	178 24'21"	1 35'39"	SE	217,704	6,056	-217,620	3	486 874,871	9 232 211,301	281,893			
472	E42 - 4	129 31'21"	50 28'39"	SE	201,030	155,069	-127,932	4	487 023,884	9 232 300,989	289,166			
473	E42 - 5	172 33'26"	7 26'34"	SE	306,601	39,716	-304,018	5	486 908,531	9 232 124,903	283,912			
474	E42 - 6R	155 08'16"	24 51'44"	SE	327,959	137,886	-297,564	6R	487 006,701	9 232 131,357	281,485			
475	E42 - 7RD	293 16'11"	66 43'49"	NW	191,306	-175,744	75,577	7RD	486 693,071	9 232 504,498	281,831			
476	E42 - 8R	320 58'46"	39 01'14"	NW	163,000	-102,625	126,638	8R	486 766,190	9 232 555,559	278,721			
477	E42 - 9D	10 47'21"	10 47'21"	NE	211,028	39,504	207,298	9D	486 908,319	9 232 636,219	281,091			
478	E42 - 10D	356 24'46"	3 35'14"	NW	249,190	-15,591	248,702	10D	486 853,224	9 232 677,623	292,052			
479	E42 - 11C	344 55'31"	15 04'29"	NW	199,566	-51,903	192,698	11C	486 816,912	9 232 621,619	281,942			
480	E42 - 12C	328 51'56"	31 08'04"	NW	294,142	-152,086	251,773	12C	486 716,729	9 232 680,694	287,703			
481	E42 - 13C	324 38'06"	35 21'54"	NW	296,859	-171,817	242,083	13C	486 696,998	9 232 671,004	285,728			
482	E42 - 14C	319 56'21"	40 03'39"	NW	296,270	-190,688	226,754	14C	486 678,135	9 232 655,675	283,332			
483	E42 - 15Pç	322 53'16"	37 06'44"	NW	287,741	-173,617	229,461	15Pç	486 695,198	9 232 658,382	284,040			
484	E42 - 16C	315 41'31"	44 18'29"	NW	312,094	-218,003	223,333	16C	486 650,812	9 232 652,254	282,283			
485	E42 - 17R	309 25'06"	50 34'54"	NW	202,606	-156,519	128,650	17R	486 712,296	9 232 557,571	278,236			
486	E43 - E44	282 42'31"	77 17'29"	NW	368,975	-359,936	81,172	E44	486 233,935	9 232 431,609	279,741			
487	E43 - 1D	6 54'26"	6 54'26"	NE	272,376	32,756	270,399	1D	486 626,627	9 232 620,836	281,359			
488	E43 - 2C	353 05'56"	6 54'04"	NW	308,708	-37,093	306,471	2C	486 556,778	9 232 656,908	283,106			
489	E43 - 3GR	219 20'06"	39 20'06"	SW	52,248	-33,118	-40,411	3GR	486 560,753	9 232 310,026	282,248			
490	E43 - 4C	346 57'16"	13 02'44"	NW	311,976	-70,421	303,924	4C	486 523,450	9 232 654,361	282,544			
491	E43 - 5R	282 44'21"	77 15'39"	NW	89,321	-87,122	19,696	5R	486 506,749	9 232 370,133	278,114			
492	E43 - 6D	346 34'26"	13 25'34"	NW	239,039	-55,503	232,506	6D	486 538,368	9 232 582,943	281,819			
493	E43 - 7RCD	10 08'26"	10 08'26"	NE	171,019	30,110	168,347	7RCD	486 623,981	9 232 518,784	280,800			
494	E44 - E45	284 11'46"	75 48'14"	NW	257,541	-249,676	63,160	E45	485 984,259	9 232 494,769	281,606			
495	E44 - 1D	152 48'21"	27 11'39"	SE	59,687	27,277	-53,089	1D	486 261,212	9 232 378,520	279,332			
496	E44 - 2D	174 51'16"	5 08'44"	SE	84,608	7,588	-84,267	2D	486 241,523	9 232 347,342	278,478			
497	E44 - 3D	176 25'21"	3 34'39"	SE	123,595	7,712	-123,354	3D	486 241,647	9 232 308,255	278,831			
498	E44 - 4R	175 31'41"	4 28'19"	SE	261,210	20,367	-260,415	4R	486 254,302	9 232 171,194	274,587			
499	E44 - 5D	239 40'11"	59 40'11"	SW	320,919	-276,994	-162,059	5D	485 956,941	9 232 269,550	279,194			
500	E44 - 6C	23 40'41"	23 40'41"	NE	191,268	76,813	175,166	6C	486 310,748	9 232 606,775	280,735			

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario										Data 09/08/96		
IN	ALINHAMENTO	AZIMUTE		DISTANCIA		LONG	PARC	LAT	PARC	COORD E (X)		COORD N (Y)		COORD (Z)
DICE	EST P V	COMPENSADO	R U M O	QD	HORIZONTAL	X (E+,W-)	Y	(N+,-)	P V	TOT	COMPENS	TOT	COMPENS	DO PONTO
501	E44 - 7C	6 52'36"	6 52'36"	NE	163,048	19,522	161,875	7C	486 253,457	9 232 593,484	281,814			
502	E44 - 8C	317 17'31"	42 42'29"	NW	190,374	-129,124	139,890	8C	486 104,811	9 232 571,499	283,445			
503	E44 - 9C	313 52'11"	46 07'49"	NW	206,344	-148,757	143,001	9C	486 085,178	9 232 574,610	283,521			
504	E44 - 10C	309 34'16"	50 28'44"	NW	164,965	-127,161	105,089	10C	486 106,774	9 232 536,698	282,425			
505	E44 - 11D	228 39'46"	48 39'46"	SW	408,619	-306,806	-269,089	11D	485 927,129	9 232 161,720	287,666			
506	E44 - 12D	296 47'56"	63 12'04"	NW	169,071	-150,912	76,227	12D	486 083,023	9 232 507,836	281,834			
507	E44 - 13D	227 11'01"	47 11'01"	SW	410,634	-301,215	-279,088	13D	485 932,720	9 232 152,521	290,566			
508	E44 - 14	287 23'41"	72 36'19"	NW	191,923	-183,146	57,376	14	486 050,789	9 232 488,985	281,293			
509	E44 - 15RD	212 05'31"	32 05'31"	SW	307,859	-163,559	-260,817	15RD	486 070,376	9 232 170,792	279,081			
510	E44 - 16D	205 23'11"	25 23'11"	SW	330,974	-141,895	-299,014	16D	486 092,040	9 232 132,595	284,631			
511	E44 - 17D	150 33'16"	29 26'44"	SE	366,938	180,336	-319,451	17D	486 414,271	9 232 112,158	292,237			
512	E44 - 18D	149 36'56"	30 23'04"	SE	397,661	201,137	-343,043	18D	486 435,072	9 232 088,566	299,424			
513	E44 - 19D	285 08'56"	74 51'04"	NW	177,308	-171,147	46,336	19D	486 062,788	9 232 477,945	281,209			
514	E44 - 20D	276 41'11"	83 18'49"	NW	193,176	-191,862	22,492	20D	486 042,073	9 232 454,101	280,848			
515	E44 - 21C	288 00'06"	71 59'54"	NW	224,342	-213,360	69,332	21C	486 020,575	9 232 500,941	281,406			
516	E44 - 22C	295 03'51"	64 56'09"	NW	183,086	-165,846	77,561	22C	486 068,089	9 232 509,170	281,683			
517	E45 - C	164 16'56"	15 43'04"	SE	23,937	6,485	-23,042	C	485 990,744	9 232 471,727	281,622			
518	E45 - 2C	186 45'11"	6 45'11"	SW	138,397	-16,274	-137,437	2C	485 967,985	9 232 357,332	280,453			
519	E45 - 3D	271 11'46"	88 48'14"	NW	197,844	-197,801	4,130	3D	485 786,458	9 232 498,899	280,621			
520	E45 - 4C	244 08'21"	64 08'21"	SW	155,244	-139,697	-67,715	4C	485 844,562	9 232 427,054	280,255			
521	E45 - 5D	268 16'41"	88 16'41"	SW	253,920	-253,805	-7,630	5D	485 730,454	9 232 487,139	280,662			
522	E45 - 6R	264 20'36"	84 20'36"	SW	326,169	-324,581	-32,150	6R	485 659,678	9 232 462,619	276,487			
523	E45 - 7D	250 23'46"	70 23'46"	SW	248,770	-234,350	-83,466	7D	485 749,909	9 232 411,303	280,568			
524	E45 - 8C	268 27'16"	88 27'16"	SW	415,024	-414,873	-11,194	8C	485 569,386	9 232 483,575	281,028			
525	E45 - 9D	249 27'26"	69 27'26"	SW	375,772	-351,877	-131,861	9D	485 632,382	9 232 362,908	288,324			
526	E45 - 10D	245 52'21"	65 52'21"	SW	382,132	-348,748	-156,204	10D	485 635,511	9 232 338,565	285,626			
527	E45 - 11D	218 11'01"	38 11'01"	SW	341,332	-211,006	-268,298	11D	485 773,253	9 232 226,471	283,733			
528	E45 - 12C	216 02'36"	36 02'36"	SW	324,490	-190,929	-262,374	12C	485 793,330	9 232 232,395	281,849			
529	E45 - 13D	221 35'16"	41 35'16"	SW	329,392	-218,639	-246,365	13D	485 765,620	9 232 248,404	282,419			
530	E45 - 14R	215 08'41"	35 08'41"	SW	294,221	-169,366	-240,585	14R	485 814,893	9 232 254,184	275,075			

 Maior Coord (X) 489 174,115 Menor Coord (X) 485 569,386 Maior Coord (Y) 9 236 456,564 Menor Coord (Y) 9 232 088,566

TopoEVN 3 0 - Sistema para processamento de Levantamentos Topograficos Arquivo BACIAS 25/10/96 15 09 49

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado			Proprietario								Data 03/08/96				
IN	ALINHAMEN	AZIMUTE	DISTANCIA		LONG	PARC	LAT	PARC	COORD E (X)		COORD N (Y)		COORD (Z)		
DICE	EST P V	COMPENSADO	R	U M O QD	HORIZONTAL	X	(E+,W-)	Y	(N+,S-)	P V	TOT	COMPENS	TOT	COMPENS	DO PONTO
1	NH - ET29	86 53'36"	86	53'36"	NE	0,000	0,000	0,000	ET29	491 318,761	9 238 847,937	292,387			
2	ET29 - E1	108 26'01"	71	33'59"	SE	257,478	244,267	-81,416	E1	491 563,028	9 238 766,521	293,261			
3	ET29 - 1C	189 16'56"	9	16'56"	SW	156,166	-25,189	-154,121	1C	491 293,572	9 238 693,816	285,971			
4	E1 - E2	132 34'11"	47	25'49"	SE	1 223,954	901,387	-827,989	E2	492 464,415	9 237 938,532	318,354			
5	E1 - 1CED	343 09'36"	16	50'24"	NW	102,344	-29,649	97,955	1CED	491 533,379	9 238 864,476	281,288			
6	E1 - 2	310 50'06"	49	09'54"	NW	86,234	-65,244	56,387	2	491 497,784	9 238 822,908	282,483			
7	E1 - 3CED	327 47'01"	32	12'59"	NW	163,983	-87,422	138,736	3CED	491 475,606	9 238 905,257	287,523			
8	E1 - 4	308 32'01"	51	27'59"	NW	151,915	-118,834	94,639	4	491 444,194	9 238 861,160	289,121			
9	E1 - 5CED	350 29'11"	9	30'49"	NW	186,111	-30,761	183,551	5CED	491 532,267	9 238 950,072	282,784			
10	E1 - 6	0 37'31"	0	37'31"	NE	258,513	2,821	258,498	6	491 565,849	9 239 025,019	372,161			
11	E1 - 7CED	5 09'01"	5	09'01"	NE	353,487	31,732	352,060	7CED	491 594,760	9 239 118,581	278,381			
12	E1 - 8DEX	11 07'01"	11	07'01"	NE	437,267	84,310	429,062	8DEX	491 647,338	9 239 195,583	345,265			
13	E1 - 9EXB	273 30'36"	86	29'24"	NW	821,665	-820,124	50,305	9EXB	490 742,904	9 238 816,826	306,027			
14	E1 - 10	11 14'51"	11	14'51"	NE	545,451	106,389	534,975	10	491 669,417	9 239 301,496	279,970			
15	E1 - 11D	12 23'16"	12	23'16"	NE	598,748	128,448	584,808	11D	491 691,476	9 239 351,329	280,803			
16	E1 - 12	13 39'41"	13	39'41"	NE	688,757	160,783	661,497	12	491 723,811	9 239 428,018	283,639			
17	E1 - 13	12 45'11"	12	45'11"	NE	737,273	162,753	719,085	13	491 725,781	9 239 485,606	292,320			
18	E1 - 14	12 51'51"	12	51'51"	NE	771,117	171,682	751,762	14	491 734,710	9 239 518,283	300,860			
19	E1 - 15	17 22'06"	17	22'06"	NE	795,477	237,461	759,208	15	491 800,489	9 239 525,729	294,115			
20	E1 - 16	21 27'11"	21	27'11"	NE	860,882	314,858	801,238	16	491 877,886	9 239 567,759	296,884			
21	E1 - 17	21 44'01"	21	44'01"	NE	704,202	260,760	654,144	17	491 823,788	9 239 420,665	292,961			
22	E1 - 18	25 25'11"	25	25'11"	NE	657,990	282,440	594,288	18	491 845,468	9 239 360,809	293,507			
23	E1 - 19	29 51'31"	29	51'31"	NE	826,590	411,527	716,866	19	491 974,555	9 239 483,387	312,109			
24	E1 - 20	32 12'01"	32	12'01"	NE	749,046	399,152	633,836	20	491 962,180	9 239 400,357	300,597			
25	E1 - 21CD	32 35'06"	32	35'06"	NE	525,861	283,203	443,087	21CD	491 846,231	9 239 209,608	289,133			
26	E1 - 22	22 43'41"	22	43'41"	NE	582,240	224,953	537,028	22	491 787,981	9 239 303,549	283,065			
27	E1 - 23	20 25'41"	20	25'41"	NE	471,107	164,431	441,480	23	491 727,459	9 239 208,001	280,006			
28	E1 - 24	33 03'26"	33	03'26"	NE	425,325	232,005	356,476	24	491 795,033	9 239 122,997	285,048			
29	E1 - 25ED	17 12'26"	17	12'26"	NE	420,889	124,511	402,050	25ED	491 687,539	9 239 168,571	279,763			
30	E1 - 26CD	33 12'16"	33	12'16"	NE	377,363	206,655	315,748	26CD	491 769,683	9 239 082,269	282,406			
31	E1 - 27CD	15 36'16"	15	36'16"	NE	327,125	87,995	315,068	27CD	491 651,023	9 239 081,589	277,483			
32	E1 - 28CD	61 14'16"	61	14'16"	NE	68,753	60,271	33,082	28CD	491 623,299	9 238 799,603	289,842			
33	E1 - 29	13 30'26"	13	30'26"	NE	93,803	21,909	91,208	29	491 584,937	9 238 857,729	282,920			
34	E1 - 30CD	82 09'51"	82	09'51"	NE	89,279	88,445	12,172	30CD	491 651,473	9 238 778,693	286,234			
35	E1 - 31	97 50'36"	82	09'24"	SE	95,589	94,695	-13,045	31	491 657,723	9 238 753,476	283,605			
36	E1 - 32	88 26'41"	88	26'41"	NE	276,741	276,639	7,511	32	491 839,667	9 238 774,032	276,576			
37	E1 - 33CD	70 03'56"	70	03'56"	NE	418,053	393,005	142,533	33CD	491 956,033	9 238 909,054	284,120			
38	E1 - 34	72 21'56"	72	21'56"	NE	470,270	448,171	142,465	34	492 011,199	9 238 908,986	287,750			
39	E1 - 35	66 05'36"	66	05'36"	NE	494,917	452,456	200,564	35	492 015,484	9 238 967,085	287,608			
40	E1 - 36	71 52'51"	71	52'51"	NE	520,249	494,451	161,795	36	492 057,479	9 238 928,316	292,236			
41	E1 - 37	66 25'51"	66	25'51"	NE	537,957	493,080	215,105	37	492 056,108	9 238 981,626	290,152			
42	E1 - 38CD	71 36'01"	71	36'01"	NE	574,959	545,566	181,483	38CD	492 108,594	9 238 948,004	295,842			
43	E1 - 39	66 18'21"	66	18'21"	NE	572,894	524,601	230,220	39	492 087,629	9 238 996,741	290,429			
44	E1 - 40	64 45'26"	64	45'26"	NE	622,275	562,853	265,372	40	492 125,881	9 239 031,893	292,007			
45	E1 - 41	71 12'21"	71	12'21"	NE	608,197	575,769	195,942	41	492 138,797	9 238 962,463	295,229			
46	E1 - 42	60 49'26"	60	49'26"	NE	694,237	606,156	338,438	42	492 169,184	9 239 104,959	293,000			
47	E1 - 43	59 28'56"	59	28'56"	NE	711,647	613,064	361,378	43	492 176,092	9 239 127,899	295,565			
48	E1 - 44	56 33'06"	56	33'06"	NE	720,771	601,399	397,278	44	492 164,427	9 239 163,799	297,081			
49	E1 - 45	56 04'46"	56	04'46"	NE	1 236,365	1 025,951	689,945	45	492 588,979	9 239 456,466	307,798			
50	E1 - 46	53 37'21"	53	37'21"	NE	1 182,159	951,788	701,142	46	492 514,816	9 239 467,663	303,281			

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado

Proprietario

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IN DICE	ALINHAMENTO		AZIMUTE		DISTANCIA HORIZONTAL	LONG X	PARC (E+,W-)	LAT Y	PARC (N+,S-)	COORD E (X)		COORD N (Y)		COORD (Z) DO PONTO
	EST	P V	COMPENSADO	R U M O QD						TOT	COMPENS	TOT	COMPENS	
51	E1	- 47	51 11'01"	51 11'01"	NE	1 043,778	813,269	654,268	47	492 376,297	9 239 420,789	302,683		
52	E1	- 48	50 17'56"	50 17'56"	NE	959,020	737,858	612,605	48	492 300,886	9 239 379,126	299,092		
53	E1	- 49	50 51'41"	50 51'41"	NE	931,883	722,788	588,203	49	492 285,816	9 239 354,724	294,020		
54	E1	- 50	48 23'11"	48 23'11"	NE	444,213	332,112	295,004	50	491 895,140	9 239 061,525	291,928		
55	E1	- 51	116 21'36"	63 38'24"	SE	86,315	77,340	-38,325	51	491 640,368	9 238 728,196	284,025		
56	E1	- 52CD	111 25'26"	68 34'34"	SE	217,378	202,358	-79,401	52CD	491 765,386	9 238 687,120	274,817		
57	E1	- 53	111 36'51"	68 23'09"	SE	261,681	243,281	-96,391	53	491 806,309	9 238 670,130	272,692		
58	E1	- 54	109 14'51"	71 45'09"	SE	347,215	329,755	-108,721	54	491 892,783	9 238 657,800	281,669		
59	E1	- 55CD	103 01'06"	76 58'54"	SE	324,841	316,492	-73,175	55CD	491 879,520	9 238 693,346	277,852		
60	E1	- 56	101 51'41"	78 08'19"	SE	473,467	463,357	-97,319	56	492 026,385	9 238 669,202	286,503		
61	E1	- 57	97 40'51"	82 19'09"	SE	495,555	491,109	-66,233	57	492 054,137	9 238 700,288	284,280		
62	E1	- 58	100 43'16"	79 16'44"	SE	627,387	616,436	-116,712	58	492 179,464	9 238 649,809	289,253		
63	E1	- 59CD	85 27'41"	85 27'41"	NE	686,329	684,177	54,310	59CD	492 247,205	9 238 820,831	282,830		
64	E1	- 60CD	98 11'31"	81 48'29"	SE	705,067	697,873	-100,465	60CD	492 260,901	9 238 666,056	287,291		
65	E1	- 61	93 53'41"	86 06'19"	SE	810,900	809,027	-55,079	61	492 372,055	9 238 711,442	290,540		
66	E1	- 62	86 49'31"	86 49'31"	NE	855,388	854,075	47,372	62	492 417,103	9 238 813,893	291,449		
67	E1	- 63	90 50'56"	89 09'04"	SE	895,494	895,396	-13,267	63	492 458,424	9 238 753,254	294,295		
68	E1	- 64	86 19'06"	86 19'06"	NE	960,786	958,803	61,695	64	492 521,831	9 238 828,216	292,882		
69	E1	- 65	88 15'36"	88 15'36"	NE	1 066,403	1 065,911	32,380	65	492 628,939	9 238 798,901	298,961		
70	E1	- 66	85 15'41"	85 15'41"	NE	1 043,922	1 040,354	86,239	66	492 603,382	9 238 852,760	294,779		
71	E1	- 67	83 55'21"	83 55'21"	NE	1 118,739	1 112,451	118,445	67	492 675,479	9 238 884,966	295,594		
72	E1	- 68	79 07'06"	79 07'06"	NE	1 105,300	1 085,426	208,660	68	492 648,454	9 238 975,181	294,123		
73	E1	- 69	80 07'31"	80 07'31"	NE	1 260,899	1 242,219	216,237	69	492 805,247	9 238 982,758	300,517		
74	E1	- 70	76 23'16"	76 23'16"	NE	1 184,321	1 151,054	278,729	70	492 714,082	9 239 045,250	302,206		
75	E1	- 71	75 55'06"	75 55'06"	NE	894,894	868,002	217,732	71	492 431,030	9 238 984,253	292,361		
76	E1	- 72	75 09'16"	75 09'16"	NE	532,190	514,425	136,355	72	492 077,453	9 238 902,876	290,840		
77	E1	- 73	78 41'06"	78 41'06"	NE	510,263	500,345	100,115	73	492 063,373	9 238 866,636	284,422		
78	E1	- 74	77 21'41"	77 21'41"	NE	454,420	443,409	99,427	74	492 006,437	9 238 865,948	278,663		
79	E1	- 75	143 25'11"	36 34'49"	SE	84,871	50,579	-68,153	75	491 613,607	9 238 698,368	284,504		
80	E1	- 76	133 00'21"	46 59'39"	SE	164,278	120,134	-112,050	76	491 683,162	9 238 654,471	279,118		
81	E1	- 77R	134 21'36"	45 38'24"	SE	288,230	206,073	-201,520	77R	491 769,101	9 238 565,001	271,877		
82	E1	- 78	124 12'11"	55 47'49"	SE	268,875	222,373	-151,142	78	491 785,401	9 238 615,379	273,935		
83	E1	- 79R	131 30'51"	48 29'09"	SE	386,528	289,429	-256,193	79R	491 852,457	9 238 510,328	272,256		
84	E1	- 80	122 09'26"	57 50'34"	SE	367,467	311,094	-195,582	80	491 874,122	9 238 570,939	280,105		
85	E1	- 81	132 14'31"	47 45'29"	SE	440,209	325,892	-295,936	81	491 888,920	9 238 470,585	281,871		
86	E1	- 82	131 00'06"	48 59'54"	SE	555,634	419,332	-364,541	82	491 982,360	9 238 401,980	290,365		
87	E1	- 83	126 30'16"	53 29'44"	SE	577,237	463,989	-343,390	83	492 027,017	9 238 423,131	293,213		
88	E1	- 84	130 01'06"	49 58'54"	SE	665,946	510,007	-428,225	84	492 073,035	9 238 338,296	290,668		
89	E1	- 85	282 19'01"	77 40'59"	NW	66,790	-65,253	14,240	85	491 497,775	9 238 780,769	284,106		
90	E1	- 86	284 13'36"	75 46'24"	NW	135,494	-131,339	33,299	86	491 431,689	9 238 799,820	287,805		
91	E1	- 87	269 47'16"	89 47'16"	SW	115,367	-115,366	-0,427	87	491 447,662	9 238 766,094	288,971		
92	E1	- 88	285 48'56"	74 11'04"	NW	208,535	-200,641	56,834	88	491 362,387	9 238 823,355	290,764		
93	E1	- 89	261 07'56"	81 07'56"	SW	166,329	-164,341	-25,640	89	491 398,687	9 238 740,881	292,864		
94	E1	- 90	273 44'06"	86 15'54"	NW	203,824	-203,391	13,277	90	491 359,637	9 238 779,798	288,695		
95	E1	- 91	254 55'01"	74 55'01"	SW	240,848	-232,551	-62,673	91	491 330,477	9 238 703,848	286,820		
96	E1	- 92	247 30'46"	67 30'46"	SW	189,098	-174,720	-72,326	92	491 388,308	9 238 694,195	286,706		
97	E1	- 93	249 25'41"	69 25'41"	SW	142,885	-133,773	-50,207	93	491 429,255	9 238 716,314	290,887		
98	E1	- 94	239 28'16"	59 28'16"	SW	172,090	-148,274	-87,417	94	491 414,794	9 238 679,104	284,654		
99	E1	- 95	242 03'36"	62 03'36"	SW	92,475	-81,696	-43,329	95	491 481,332	9 238 723,192	290,117		
100	E1	- 96	210 38'01"	30 38'01"	SW	50,887	-25,522	-43,097	96	491 537,506	9 238 723,424	292,404		

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado

Proprietario

Data 03/08/96

IM DICE	ALINHAMENTOS EST P V	AZIMUTE COMPENSADO	RUMOS QU	DISTANCIA HORIZONTAL	LONG PARC X (E+,W-)	LAT PARC Y (N+,S-)	COORD E (X)	COORD N (Y)	COORD (Z)
101	E1 - 97	161 44'36"	18 15'24" SE	118,835	37,228	-112,853	97 491 600,256	9 238 653,668	287,066
102	E1 - 98	180 08'51"	0 08'51" SW	49,482	-0 127	-49,482	98 491 562,901	9 238 717,039	290,529
103	E2 - PF	293 25'21"	66 34'39" NW	68,097	-62,486	27,069	PF 492 401,929	9 237 965,601	309,457
104	E2 - 1	345 30'41"	14 29'19" NW	71,778	-17,958	69,495	1 492 446,457	9 238 008,027	306,986
105	E2 - 2	352 03'16"	7 56'44" NW	139,644	-19,303	138,303	2 492 445,112	9 238 076,835	300,311
106	E2 - 3	352 05'31"	7 54'29" NW	190,156	-26,162	188,348	3 492 438,253	9 238 126,880	297,228
107	E2 - 4	354 32'36"	5 27'24" NW	273,355	-25,994	272,116	4 492 438,421	9 238 210,648	290,527
108	E2 - 5GRO	355 24'41"	4 35'19" NW	354,208	-28,337	353,073	5GRO 492 436,078	9 238 291,605	284,204
109	E2 - 6CD	351 57'31"	8 02'29" NW	394,269	-55,154	390,392	6CD 492 409,261	9 238 328,924	287,327
110	E2 - 7	354 40'41"	5 19'19" NW	451,289	-41,858	449,344	7 492 422,557	9 238 387,876	296,880
111	E2 - 8	349 17'16"	10 42'44" NW	463,465	-86,147	455,388	8 492 378,268	9 238 393,920	293,038
112	E2 - 9	349 23'06"	10 36'54" NW	525,416	-96,786	516,425	9 492 367,629	9 238 454,957	290,729
113	E2 - 10	348 31'11"	11 28'49" NW	586,939	-116,819	575,196	10 492 347,596	9 238 513,728	293,946
114	E2 - 11CD	359 46'41"	0 13'19" NW	590,545	-2,288	590,541	11CD 492 462,127	9 238 529,073	295,742
115	E2 - 12	6 12'21"	6 12'21" NE	551,858	59,656	548,624	12 492 524,071	9 238 487,156	299,625
116	E2 - 13	6 49'31"	6 49'31" NE	471,120	55,989	467,781	13 492 520,404	9 238 406,313	297,746
117	E2 - 14	23 50'16"	23 50'16" NE	64,207	25,949	58,730	14 492 490,364	9 237 997,262	306,178
118	E2 - 15	358 38'21"	1 21'39" NW	89,357	-2,122	89,332	15 492 462,293	9 238 027,864	304,804
119	E2 - 16	24 53'56"	24 53'56" NE	138,342	58,245	125,483	16 492 522,660	9 238 064,015	301,734
120	E2 - 17	25 40'51"	25 40'51" NE	188,394	81,642	169,785	17 492 546,057	9 238 108,317	300,578
121	E2 - 18	8 09'26"	8 09'26" NE	412,731	58,562	408,555	18 492 522,977	9 238 347,087	291,726
122	E2 - 19GR	14 54'51"	14 54'51" NE	456,974	117,612	441,580	19GR 492 582,027	9 238 380,112	288,876
123	E2 - 20CD	17 05'36"	17 05'36" NE	510,836	150,150	488,271	20CD 492 614,565	9 238 426,803	291,580
124	E2 - 21GR	20 07'56"	20 07'56" NE	582,155	200,371	546,586	21GR 492 664,786	9 238 485,118	296,891
125	E2 - 22	22 15'31"	22 15'31" NE	486,808	184,397	450,533	22 492 648,812	9 238 389,065	296,673
126	E2 - 23	25 03'36"	25 03'36" NE	521,942	221,077	472,809	23 492 685,492	9 238 411,341	298,197
127	E2 - 24	26 33'41"	26 33'41" NE	432,233	193,276	386,613	24 492 657,691	9 238 325,145	297,722
128	E2 - 25GR	33 47'36"	33 47'36" NE	356,175	198,104	295,999	25GR 492 662,519	9 238 234,531	287,473
129	E2 - 26GR	30 04'16"	30 04'16" NE	428,666	214,794	370,969	26GR 492 679,209	9 238 309,501	298,534
130	E2 - 28CD	44 14'21"	44 14'21" NE	500,508	349,182	358,581	28CD 492 813,597	9 238 297,113	291,356
131	E2 - 29	36 58'16"	36 58'16" NE	534,631	321,534	427,137	29 492 785,949	9 238 365,669	301,310
132	E2 - 30GR	44 22'31"	44 22'31" NE	719,550	503,221	514,316	30GR 492 967,636	9 238 452,848	301,382
133	E2 - 31	49 42'56"	49 42'56" NE	717,185	547,100	463,719	31 493 011,515	9 238 402,251	306,241
134	E2 - 32	55 05'41"	55 05'41" NE	817,880	670,743	468,008	32 493 135,158	9 238 406,540	307,785
135	E2 - 33	48 13'26"	48 13'26" NE	471,404	351,551	314,060	33 492 815,966	9 238 252,592	299,480
136	E2 - 34	48 31'11"	48 31'11" NE	371,427	278,267	246,019	34 492 742,682	9 238 184,551	300,468
137	E2 - 35	46 21'21"	46 21'21" NE	210,600	152,399	145,351	35 492 616,814	9 238 083,883	304,713
138	E2 - 36	43 46'16"	43 46'16" NE	131,687	91,098	95,092	36 492 555,513	9 238 033,624	307,972
139	E2 - 37	33 40'11"	33 40'11" NE	56,132	31,120	46,716	37 492 495,535	9 237 985,248	309,736
140	E2 - 38	316 46'56"	43 13'04" NW	73,639	-50,426	53,665	38 492 413,989	9 237 992,197	307,503
141	E2 - 39	340 50'06"	19 09'54" NW	140,188	-46,022	132,418	39 492 418,393	9 238 070,950	301,716
142	E2 - 40	317 59'51"	42 00'09" NW	159,678	-106,851	118,659	40 492 357,564	9 238 057,191	296,266
143	E2 - 41	327 19'01"	32 40'59" NW	226,457	-122,285	190,602	41 492 342,130	9 238 129,134	295,269
144	E2 - 42	313 53'16"	46 06'44" NW	288,521	-207,937	200,017	42 492 256,478	9 238 138,549	285,208
145	E2 - 43	314 58'26"	45 01'34" NW	354,640	-250,883	250,654	43 492 213,532	9 238 189,186	282,787
146	E2 - 44	316 23'16"	43 36'44" NW	484,887	-334,462	351,070	44 492 129,953	9 238 289,602	282,718
147	E2 - 45BR	306 37'36"	53 22'24" NW	472,617	-379,294	281,963	45BR 492 085,121	9 238 220,495	278,978
148	E2 - 46	316 43'06"	43 16'54" NW	543,290	-372,472	395,511	46 492 091,943	9 238 334,043	288,746
149	E2 - 47	308 17'21"	51 42'39" NW	589,214	-462,470	365,095	47 492 001,945	9 238 303,627	287,098
150	E2 - 48	316 31'16"	43 28'44" NW	620,558	-426,998	450,294	48 492 037,417	9 238 388,826	292,303

Imovel BARRAGEM ROSARIO

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IN DICE	ALINHAMENTO		AZIMUTE		RUMOR	DISTANCIA		LONG PARC X	LAT PARC Y	COORD E (X)		COORD N (Y)		COORD (Z) DO PONTO
	EST	P V	COMPENSADO	RUMOR		HORIZONTAL	QD			TOT	COMPENS	TOT	COMPENS	
151	E2	- 49	307 23'11"	52 36'49"	NW	676,625		-537,618	410,838	49	491 926,797	9 238 349,370	281,603	
152	E2	- 50	307 37'36"	52 22'24"	NW	752,990		-596,372	459,711	50	491 868,043	9 238 398,243	280,634	
153	E2	- 51	307 33'01"	52 26'59"	NW	844,123		-669,237	514,457	51	491 795,178	9 238 452,989	277,457	
154	E2	- 52	308 06'36"	51 53'24"	NW	949,794		-747,324	586,187	52	491 717,091	9 238 524,719	279,849	
155	E2	- 53	305 41'01"	54 18'59"	NW	995,479		-808,578	580,672	53	491 655,837	9 238 519,204	282,498	
156	E2	- 54	305 28'36"	54 31'24"	NW	901,605		-734,224	523,266	54	491 730,191	9 238 461,798	282,444	
157	E2	- 55	301 46'46"	58 13'14"	NW	1 061,247		-902,147	558,907	55	491 562,268	9 238 497,439	286,354	
158	E2	- 56	298 54'21"	61 05'39"	NW	1 115,080		-976,158	538,998	56	491 488,257	9 238 477,530	287,810	
159	E2	- 57	296 45'01"	63 14'59"	NW	950,910		-849,141	428,007	57	491 615,274	9 238 366,539	289,661	
160	E2	- 58	299 58'41"	60 01'19"	NW	902,290		-781,579	450,846	58	491 682,836	9 238 389,378	287,587	
161	E2	- 59	299 05'16"	60 54'44"	NW	810,866		-708,596	394,202	59	491 755,819	9 238 332,734	282,290	
162	E2	- 60	296 02'36"	63 57'24"	NW	870,454		-782,070	382,174	60	491 682,345	9 238 320,706	285,335	
163	E2	- 61	292 40'46"	67 19'14"	NW	645,036		-595,160	248,710	61	491 869,255	9 238 187,242	279,972	
164	E2	- 62	295 47'51"	64 12'09"	NW	625,850		-563,476	272,365	62	491 900,939	9 238 210,897	279,407	
165	E2	- 63	290 09'41"	69 50'19"	NW	548,193		-514,603	188,943	63	491 949,812	9 238 127,475	281,387	
166	E2	- 64	294 42'31"	65 17'29"	NW	526,961		-478,715	220,272	64	491 985,700	9 238 158,804	280,182	
167	E2	- 65	287 56'36"	72 03'24"	NW	340,861		-324,282	105,011	65	492 140,133	9 238 043,543	294,092	
168	E2	- 66	290 46'11"	69 13'49"	NW	178,362		-166,771	63,249	66	492 297,644	9 238 001,781	301,432	

Maior Coord (X) 493.135,158 Menor Coord (X) 490 742,904 Maior Coord (Y) 9 239 567,759 Menor Coord (Y) 9 237 938,532

TopoEVN 3 0 - Sistema para processamento de Levantamentos Topograficos

Arquivo BACIAROS

25/10/96

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Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario										Data 05/08/96			
IN	ALINHAMENTO	AZIMUTE		DISTANCIA		LONG	PARC	LAT	PARC	COORD E (X)		COORD N (Y)		COORD (Z)	
DICE	EST P V	COMPENSADO	R U M O	QD	HORIZONTAL	X	(E+,W-)	Y	(N+,S-)	P V	TOT	COMPENS	TOT	COMPENS	DO PONTO
1	NM - E13	127 34'31"	52 25'29"	SE	0,000		0,000		0,000	E13	492 199,700	9 237 097,850		296,871	
2	E13 - E14	219 56'11"	39 56'11"	SW	906,472		-583,182		-696,578	E14	491 616,518	9 236 401,272		306,373	
3	E14 - E16	341 19'51"	18 40'09"	NW	244,819		-78,367		231,937	E16	491 538,151	9 236 633,209		316,631	
4	E16 - PF	164 25'41"	15 34'19"	SE	106,559		28,337		-101,684	PF	491 566,488	9 236 531,525		296,555	
5	E16 - 1R	218 16'46"	38 16'46"	SW	814,522		-504,594		-639,399	1R	491 033,557	9 235 993,810		294,791	
6	E16 - 2	218 04'16"	38 04'16"	SW	828,999		-511,193		-652,626	2	491 026,958	9 235 980,583		300,427	
7	E16 - 3	212 15'36"	32 15'36"	SW	999,018		-533,238		-844,804	3	491 004,913	9 235 788,405		303,961	
8	E16 - 4R	211 26'21"	31 26'21"	SW	973,475		-507,758		-830,563	4R	491 030,393	9 235 802,646		296,685	
9	E16 - 5	217 20'36"	37 20'36"	SW	829,957		-503,443		-659,828	5	491 034,708	9 235 973,381		301,520	
10	E16 - 6	212 03'01"	32 03'01"	SW	584,740		-310,300		-495,616	6	491 227,851	9 236 137,593		297,344	
11	E16 - 7R	210 25'41"	30 25'41"	SW	478,885		-242,524		-412,926	7R	491 295,617	9 236 220,283		294,995	
12	E16 - 8	216 33'41"	36 33'41"	SW	453,805		-270,324		-364,505	8	491 267,827	9 236 268,704		311,408	
13	E16 - 9	205 35'06"	25 35'06"	SW	471,501		-203,618		-425,268	9	491 334,533	9 236 207,941		298,697	
14	E16 - 10	211 45'31"	31 45'31"	SW	361,509		-190,277		-307,381	10	491 347,874	9 236 325,828		290,770	
15	E16 - 11	220 55'46"	40 55'46"	SW	331,818		-217,384		-250,694	11	491 320,767	9 236 382,515		297,031	
16	E16 - 12	225 50'46"	45 50'46"	SW	331,036		-237,509		-230,596	12	491 300,642	9 236 402,613		300,765	
17	E16 - 13	203 48'21"	23 48'21"	SW	371,310		-149,875		-339,718	13	491 388,276	9 236 293,491		297,987	
18	E16 - 14	201 49'56"	21 49'56"	SW	287,476		-106,909		-266,857	14	491 431,242	9 236 366,352		301,623	
19	E16 - 15R	210 53'51"	30 53'51"	SW	260,378		-133,705		-223,427	15R	491 404,446	9 236 409,782		288,999	
20	E16 - 16R	211 02'26"	31 02'26"	SW	261,022		-134,595		-223,644	16R	491 403,556	9 236 409,565		289,005	
21	E16 - 17	220 59'51"	40 59'51"	SW	245,907		-161,321		-185,595	17	491 376,830	9 236 447,614		291,992	
22	E16 - 18	206 48'41"	26 48'41"	SW	162,529		-73,310		-145,057	18	491 464,841	9 236 488,152		294,466	
23	E16 - 19	194 07'26"	14 07'26"	SW	150,929		-36,830		-146,366	19	491 501,321	9 236 486,843		302,130	
24	E16 - 20	178 14'16"	1 45'44"	SE	130,552		4,015		-130,490	20	491 542,166	9 236 502,719		300,748	
25	E16 - 21	180 56'31"	0 56'31"	SW	92,109		-1,514		-92,097	21	491 536,637	9 236 541,112		294,882	

 Maior Coord (X) 492 199,700 Menor Coord (X) 491 004,913 Maior Coord (Y) 9 237 097,850 Menor Coord (Y) 9 235 788,405

 TopoEVN 3 0 - Sistema para processamento de Levantamentos Topograficos Arquivo BACIAA 25/10/96 15 00 35

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario										Data 07/08/96			
IN	ALINHAMEN	AZIMUTE		DISTANCIA		LONG	PARC	LAT	PARC	COORD E (X)		COORD N (Y)		COORD (Z)	
DICE	EST P V	COMPENSADO	R U M O	QD	HORIZONTAL	X	(E+,W-)	Y	(N+,S-)	P V	TOT	COMPENS	TOT	COMPENS	DO PONTO
1	NM - E19	258 50'31"	78 50'31"	SW	0,000	0,000		0,000		E19	489 207,958	9 237 687,346		298,855	
2	E19 - E20	142 27'46"	37 32'14"	SE	921,476	561,434		-730,691		E20	489 769,392	9 236 956,655		305,757	
3	E20 - PF	140 39'46"	39 20'14"	SE	30,422	24,355		-29,717		PF	489 793,747	9 236 926,938		300,611	
4	E20 - 1	28 28'36"	28 28'36"	NE	37,410	17,837		32,884		1	489 787,229	9 236 989,539		299,660	
5	E20 - 2	320 18'36"	39 41'24"	NW	71,923	-45,932		55,346		2	489 723,460	9 237 012,001		299,928	
6	E20 - 3	13 18'36"	13 18'36"	NE	88,261	20,319		85,890		3	489 789,711	9 237 042,545		294,061	
7	E20 - 4	323 00'26"	36 59'34"	NW	177,443	-106,770		141,726		4	489 662,622	9 237 098,381		293,557	
8	E20 - 5C	355 58'36"	4 01'24"	NW	189,426	-13,291		188,959		5C	489 756,101	9 237 145,614		294,409	
9	E20 - 6PA	13 40'26"	13 40'26"	NE	200,961	47,506		195,265		6PA	489 816,898	9 237 151,920		287,816	
10	E20 - 7PA	32 16'16"	32 16'16"	NE	248,836	132,860		210,399		7PA	489 902,252	9 237 167,054		287,588	
11	E20 - 8	47 25'16"	47 25'16"	NE	289,190	212,944		195,667		8	489 982,336	9 237 152,322		294,208	
12	E20 - 9cd	19 07'36"	19 07'36"	NE	337,388	110,548		318,763		9cd	489 879,940	9 237 275,418		278,395	
13	E20 - 10CD	20 29'36"	20 29'36"	NE	377,937	132,315		354,018		10CD	489 901,707	9 237 310,673		278,359	
14	E20 - 11	63 15'16"	63 15'16"	NE	346,600	309,519		155,980		11	490 078,911	9 237 112,635		298,459	
15	E20 - 12CD	20 38'41"	20 38'41"	NE	409,668	144,438		383,361		12CD	489 913,830	9 237 340,016		278,013	
16	E20 - 13CD	20 55'41"	20 55'41"	NE	481,609	172,029		449,837		13CD	489 941,421	9 237 406,492		277,258	
17	E20 - 14	88 09'56"	88 09'56"	NE	309,868	309,709		9,919		14	490 079,101	9 236 966,574		302,471	
18	E20 - 15	78 05'56"	78 05'56"	NE	224,185	219,366		46,232		15	489 988,758	9 237 002,887		299,557	
19	E20 - 16	30 30'16"	30 30'16"	NE	340,963	173,075		293,770		16	489 942,467	9 237 250,425		283,069	
20	E20 - 17	85 25'11"	85 25'11"	NE	183,466	182,880		14,651		17	489 952,272	9 236 971,306		298,418	
21	E20 - 18	40 22'36"	40 22'36"	NE	314,833	203,952		239,840		18	489 973,344	9 237 196,495		290,705	
22	E20 - 19	93 34'36"	86 25'24"	SE	317,227	316,609		-19,790		19	490 086,001	9 236 936,865		302,223	
23	E20 - 20	118 58'01"	61 01'59"	SE	420,991	368,325		-203,888		20	490 137,717	9 236 752,767		300,646	
24	E20 - 21	66 41'01"	66 41'01"	NE	213,937	196,465		84,678		21	489 965,857	9 237 041,333		294,233	
25	E20 - 22	122 01'21"	57 58'39"	SE	340,406	288,610		-180,501		22	490 058,002	9 236 776,154		293,736	
26	E20 - 23	87 46'36"	87 46'36"	NE	192,318	192,173		7,461		23	489 961,565	9 236 964,116		298,372	
27	E20 - 24	127 29'21"	52 30'39"	SE	207,013	164,258		-125,990		24	489 933,650	9 236 830,665		291,596	
28	E20 - 25	132 55'51"	47 04'09"	SE	152,590	111,723		-103,931		25	489 881,115	9 236 852,724		288,913	
29	E20 - 26	105 14'31"	74 45'29"	SE	198,961	191,962		-52,306		26	489 961,354	9 236 904,349		293,173	
30	E20 - 27	146 08'01"	33 51'59"	SE	222,382	123,924		-184,653		27	489 893,316	9 236 772,002		290,254	
31	E20 - 28	114 35'16"	63 24'44"	SE	392,267	356,698		-163,217		28	490 126,090	9 236 793,438		288,553	
32	E20 - 29	139 11'06"	40 48'54"	SE	312,737	204,411		-236,687		29	489 973,803	9 236 719,968		296,839	
33	E20 - 30	113 23'51"	66 36'09"	SE	564,150	517,761		-224,028		30	490 287,153	9 236 732,627		300,067	
34	E20 - 31	134 20'11"	45 39'49"	SE	454,280	324,923		-317,483		31	490 094,315	9 236 639,172		303,798	
35	E20 - 32	126 22'31"	53 37'29"	SE	471,040	379,258		-279,360		32	490 148,650	9 236 677,295		305,433	
36	E20 - 33	140 23'11"	39 36'49"	SE	617,678	393,836		-475,836		33	490 163,228	9 236 480,819		298,440	
37	E20 - 34	147 48'46"	32 11'14"	SE	562,276	299,517		-475,861		34	490 068,909	9 236 480,794		298,600	
38	E20 - 35	148 23'41"	31 36'19"	SE	506,919	265,658		-431,732		35	490 035,050	9 236 524,923		290,806	
39	E20 - 36	153 23'51"	26 26'09"	SE	428,585	190,804		-383,769		36	489 960,196	9 236 572,886		294,259	
40	E20 - 37	149 41'46"	30 18'14"	SE	432,241	218,103		-373,180		37	489 987,495	9 236 583,475		292,038	
41	E20 - 38	152 46'41"	27 13'19"	SE	376,690	172,313		-334,968		38	489 941,705	9 236 621,687		285,577	
42	E20 - 39	159 04'06"	20 55'54"	SE	382,528	136,660		-357,284		39	489 906,052	9 236 599,371		285,775	
43	E20 - 40	161 24'46"	18 35'14"	SE	420,176	133,930		-398,259		40	489 903,322	9 236 558,396		292,009	
44	E20 - 41	166 11'51"	13 48'09"	SE	470,602	112,274		-457,013		41	489 881,666	9 236 499,642		297,227	
45	E20 - 42	172 33'01"	7 26'59"	SE	443,150	57,457		-439,409		42	489 826,849	9 236 517,246		288,862	
46	E20 - 43	167 57'41"	12 02'19"	SE	519,776	108,410		-508,345		43	489 877,802	9 236 448,310		298,649	
47	E20 - 44	174 24'01"	5 35'59"	SE	549,931	53,661		-547,307		44	489 823,053	9 236 409,348		291,945	
48	E20 - 45	173 27'31"	6 32'29"	SE	589,059	67,106		-585,224		45	489 836,498	9 236 371,431		298,386	
49	E20 - 46CD	182 26'36"	2 26'36"	SW	397,609	-16,951		-397,248		46CD	489 752,441	9 236 559,407		300,062	
50	E20 - 47CD	182 11'36"	2 11'36"	SW	514,668	-19,697		-514,291		47CD	489 749,695	9 236 442,364		296,869	

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado

Proprietario

Data 07/08/96

IN DICE	ALINHAMEN EST P V	AZIMUTE COMPENSADO	R U M O QD	DISTANCIA HORIZONTAL	LONG PARC X (E+,W-)	LAT PARC Y (N+,S-)	COORD E (X) TOT	COORD N (Y) COMPENS	COORD (Z) DO PONTO
51	E20 - 48	178 01'51"	1 58'09" SE	298,294	10,250	-298,118	48 489 779,642	9 236 658,537	295,336
52	E20 - 49	190 57'56"	10 57'56" SW	400,915	-76,262	-393,595	49 489 693,130	9 236 563,060	303,771
53	E20 - 50	189 15'36"	9 15'36" SW	312,551	-50,294	-308,478	50 489 719,098	9 236 648,177	297,008
54	E20 - 51	172 05'46"	7 54'14" SE	202,769	27,883	-200,843	51 489 797,275	9 236 755,812	293,637
55	E20 - 52	192 03'31"	12 03'31" SW	218,315	-45,609	-213,498	52 489 723,783	9 236 743,157	295,211
56	E20 - 53	201 06'46"	21 06'46" SW	134,379	-48,404	-125,359	53 489 720,988	9 236 831,296	299,728
57	E20 - 54	203 56'11"	23 56'11" SW	83,782	-33,992	-76,576	54 489 735,400	9 236 880,079	301,099
58	E20 - 55	176 27'36"	3 32'24" SE	91,119	5,626	-90,945	55 489 775,018	9 236 865,710	297,502

 Maior Coord (X) 490 287,153 Menor Coord (X) 489 207,958 Maior Coord (Y) 9 237 687,346 Menor Coord (Y) 9 236 371,431

 TopoEVN 3 0 - Sistema para processamento de Levantamentos Topograficos Arquivo BACIAS 25/10/96 15 01 54

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado		Proprietario										Data 07/08/96			
IN	ALINHAMENTO	AZIMUTE		DISTANCIA		LONG	PARC	LAT	PARC	COORD E (X)		COORD N (Y)		COORD (Z)	
DICE	EST P V	COMPENSADO	R U M O	Q D	HORIZONTAL	X	(E+,W-)	Y	(N+,S-)	P V	TOT	COMPENS	TOT	COMPENS	DO PONTO
1	NM - E27	235 26'41"	55 26'41"	SW	0,000	0,000		0,000	E27	487 558,844	9 236 217,257			303,882	
2	E27 - E27B	320 13'06"	39 46'54"	NW	398,441	-254,948		306,197	E27B	487 303,896	9 236 523,454			295,330	
3	E27B - E27C	266 20'06"	86 20'06"	SW	1 007,686	-1 005,625		-64,414	E27C	486 298,271	9 236 459,040			312,965	
4	E27B - 1	152 00'36"	27 59'24"	SE	52,035	24,421		-45,948	1	487 328,317	9 236 477,506			288,301	
5	E27B - 2CD	188 45'26"	8 45'26"	SW	110,966	-16,894		-109,672	2CD	487 287,002	9 236 413,782			283,218	
6	E27B - 3GR	155 57'11"	24 02'49"	SE	118,763	48,394		-108,456	3GR	487 352,290	9 236 414,998			281,519	
7	E27B - 4	193 17'36"	13 17'36"	SW	117,577	-27,035		-114,427	4	487 276,861	9 236 409,027			293,606	
8	E27B - 5GR	155 22'46"	24 37'14"	SE	194,742	81,131		-177,037	5GR	487 385,027	9 236 346,417			282,887	
9	E27B - 6	194 16'16"	14 16'16"	SW	209,320	-51,600		-202,860	6	487 252,296	9 236 320,594			300,035	
10	E27B - 7	153 18'56"	26 41'04"	SE	227,585	102,203		-203,346	7	487 406,099	9 236 320,108			291,273	
11	E27B - 8	158 00'11"	21 59'49"	SE	246,570	92,355		-228,621	8	487 396,251	9 236 294,833			296,569	
12	E27B - 9	193 09'11"	13 09'11"	SW	283,065	-64,412		-275,639	9	487 239,484	9 236 247,815			308,621	
13	E27B - 10	161 02'56"	18 57'04"	SE	299,970	97,419		-283,710	10	487 401,315	9 236 239,744			303,381	
14	E27B - 11GR	170 27'26"	9 32'34"	SE	298,881	49,550		-294,745	11GR	487 353,446	9 236 228,709			290,774	
15	E27B - 12	171 04'36"	8 55'24"	SE	343,230	53,239		-339,076	12	487 357,135	9 236 184,378			293,700	
16	E27B - 13	171 45'26"	8 14'34"	SE	383,372	54,963		-379,412	13	487 358,859	9 236 144,042			301,020	
17	E27B - 14	210 39'11"	30 39'11"	SW	427,047	-217,725		-367,376	14	487 086,171	9 236 156,078			310,407	
18	E27B - 15	213 29'16"	33 29'16"	SW	382,880	-211,258		-319,323	15	487 092,638	9 236 204,131			300,477	
19	E27B - 16	218 44'56"	38 44'56"	SW	335,046	-209,708		-261,301	16	487 094,188	9 236 262,153			303,260	
20	E27B - 17	220 59'46"	40 59'46"	SW	293,440	-192,499		-221,475	17	487 111,397	9 236 301,979			294,900	
21	E27B - 18	212 44'11"	32 44'11"	SW	265,298	-143,466		-223,160	18	487 160,430	9 236 300,294			291,380	
22	E27B - 19GR	222 48'51"	42 48'51"	SW	226,804	-154,141		-166,375	19GR	487 149,755	9 236 357,079			288,749	
23	E27B - 20	212 33'11"	32 33'11"	SW	196,976	-105,989		-166,030	20	487 197,907	9 236 357,424			292,471	
24	E27B - 21	226 40'41"	46 40'41"	SW	162,176	-117,985		-111,268	21	487 185,911	9 236 412,186			290,398	
25	E27B - 22	201 47'51"	21 47'51"	SW	99,340	-36,888		-92,237	22	487 267,008	9 236 431,217			282,353	
26	E27B - 23	224 28'16"	44 28'16"	SW	50,144	-35,128		-35,783	23	487 268,768	9 236 487,671			290,819	
27	E27B - 24	283 12'21"	76 47'39"	NW	53,966	-52,539		12,329	24	487 251,357	9 236 535,783			289,064	
28	E27B - 25	301 58'16"	58 01'44"	NW	121,225	-102,837		64,188	25	487 201,059	9 236 587,642			292,493	
29	E27B - 26	237 06'21"	57 06'21"	SW	120,972	-101,577		-65,699	26	487 202,319	9 236 457,755			291,848	
30	E27B - 27	298 54'36"	61 05'24"	NW	184,169	-161,218		89,034	27	487 142,678	9 236 612,488			298,987	
31	E27B - 28	256 00'26"	76 00'26"	SW	206,719	-200,585		-49,985	28	487 103,311	9 236 473,469			298,634	
32	E27B - 29	291 31'06"	68 28'54"	NW	227,187	-211,352		83,332	29	487 092,544	9 236 606,786			296,709	
33	E27B - 30	287 00'26"	72 59'34"	NW	267,622	-255,918		78,277	30	487 047,978	9 236 601,731			298,222	
34	E27B - 31	257 48'31"	77 48'31"	SW	251,642	-245,967		-53,141	31	487 057,929	9 236 470,313			299,453	
35	E27B - 32	281 30'46"	78 29'14"	NW	289,225	-283,406		57,725	32	487 020,490	9 236 581,179			300,303	
36	E27B - 33	280 15'21"	79 44'39"	NW	319,693	-314,585		56,919	33	486 989,311	9 236 580,373			298,291	
37	E27C - E27D	158 05'06"	21 54'54"	SE	103,099	38,480		-95,649	E27D	486 336,751	9 236 363,391			300,777	
38	E27C - 1LR	163 42'06"	16 17'54"	SE	87,346	24,513		-83,836	1LR	486 322,784	9 236 375,204			295,280	
39	E27C - 2	158 51'46"	21 08'14"	SE	136,505	49,224		-127,321	2	486 347,495	9 236 331,719			303,520	
40	E27C - 3CD	124 15'01"	55 44'59"	SE	224,268	185,377		-126,220	3CD	486 483,648	9 236 332,820			305,015	
41	E27C - 4	110 51'16"	69 08'44"	SE	191,979	179,402		-68,344	4	486 477,673	9 236 390,696			297,704	
42	E27C - 5	102 06'06"	77 53'54"	SE	311,677	304,751		-65,342	5	486 603,022	9 236 393,698			300,268	
43	E27C - 6GR	98 23'51"	81 36'09"	SE	332,066	328,506		-48,495	6GR	486 626,777	9 236 410,545			301,290	
44	E27C - 7	96 13'16"	83 46'44"	SE	275,220	273,599		-29,824	7	486 571,870	9 236 429,216			294,795	
45	E27C - 8	94 33'41"	85 26'19"	SE	399,190	397,926		-31,746	8	486 696,197	9 236 427,294			302,313	
46	E27C - 9	92 19'16"	87 40'44"	SE	344,255	343,973		-13,942	9	486 642,244	9 236 445,098			299,053	
47	E27C - 10	91 29'21"	88 30'39"	SE	447,217	447,066		-11,622	10	486 745,337	9 236 447,418			300,896	
48	E27C - 11	87 58'11"	87 58'11"	NE	428,824	428,555		15,192	11	486 726,826	9 236 474,232			297,424	
49	E27C - 12	89 06'21"	89 06'21"	NE	490,622	490,562		7,656	12	486 788,833	9 236 466,696			298,251	
50	E27C - 13	86 15'56"	86 15'56"	NE	507,273	506,196		33,040	13	486 804,467	9 236 492,080			290,790	

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado

Proprietario

Data 07/08/96

IN	ALINHAMENTO		AZIMUTE		DISTANCIA		LONG	PARC	LAT	PARC	COORD E (X)		COORD N (Y)		COORD (Z)	
DICE	EST	P V	COMPENSADO	R U M O	QD	HORIZONTAL	X	(E+,W-)	Y	(N+,S-)	P V	TOT	COMPENS	TOT	COMPENS	DO PONTO
51	E27C	-	14	93 38'16"	86 21'44"	SE	726,327	724,864	-46,084	14	487 023,135	9 236 412,956	302,087			
52	E27C	-	15	89 12'41"	89 12'41"	NE	758,105	758,033	10,434	15	487 056,304	9 236 469,474	299,589			
53	E27C	-	16	80 07'01"	80 07'01"	NE	550,322	542,155	94,456	16	486 840,426	9 236 553,496	298,584			
54	E27C	-	17	77 59'46"	77 59'46"	NE	518,667	507,326	107,871	17	486 805,597	9 236 566,911	299,510			
55	E27C	-	18	81 01'21"	81 01'21"	NE	285,326	281,831	44,524	18	486 580,102	9 236 503,564	299,001			
56	E27C	-	19	82 04'01"	82 04'01"	NE	242,215	239,897	33,430	19	486 538,168	9 236 492,470	296,219			
57	E27C	-	20	77 48'16"	77 48'16"	NE	163,606	159,914	34,562	20	486 458,185	9 236 493,602	303,918			
58	E27C	-	21	65 54'41"	65 54'41"	NE	97,695	89,187	39,874	21	486 387,458	9 236 498,914	303,278			
59	E27C	-	22	45 43'06"	45 43'06"	NE	107,421	76,904	75,000	22	486 375,175	9 236 534,040	302,973			
60	E27C	-	23	99 13'56"	80 46'04"	SE	136,899	135,126	-21,964	23	486 433,397	9 236 437,076	294,218			
61	E27C	-	24	32 42'01"	32 42'01"	NE	129,695	70,067	109,139	24	486 368,338	9 236 568,179	301,829			
62	E27C	-	25	0 50'46"	0 50'46"	NE	94,731	1,399	94,721	25	486 299,670	9 236 553,761	309,090			
63	E27C	-	26GR	337 18'56"	22 41'04"	NW	85,326	-32,906	78,725	26GR	486 265,365	9 236 537,765	300,843			
64	E27C	-	27	327 59'36"	32 00'24"	NW	40,441	-21,434	34,293	27	486 276,837	9 236 493,333	304,547			
65	E27C	-	28	82 35'36"	82 35'36"	NE	42,599	42,244	5,491	28	486 340,515	9 236 464,531	305,156			
66	E27C	-	29	176 04'01"	3 55'59"	SE	34,210	2,346	-34,129	29	486 300,617	9 236 424,911	307,005			
67	E27D	-	PF	201 18'51"	21 18'51"	SW	90,326	-32,832	-84,148	PF	486 303,919	9 236 279,243	303,658			
68	E27D	-	1PA	241 31'31"	61 31'31"	SW	38,299	-33,666	-18,260	1PA	486 303,085	9 236 345,131	300,517			
69	E27D	-	2PA	290 09'51"	69 50'09"	NW	66,466	-62,392	22,912	2PA	486 274,359	9 236 386,303	300,956			
70	E27D	-	3	279 30'26"	80 29'34"	NW	118,215	-116,591	19,526	3	486 220,160	9 236 382,917	307,843			
71	E27D	-	4	259 23'16"	79 23'16"	SW	136,402	-134,069	-25,120	4	486 202,682	9 236 338,271	298,545			
72	E27D	-	5	264 01'36"	84 01'36"	SW	148,348	-147,543	-15,438	5	486 189,208	9 236 347,953	303,673			
73	E27D	-	6	247 34'51"	67 34'51"	SW	239,027	-220,961	-91,160	6	486 115,790	9 236 272,231	298,042			
74	E27D	-	7	256 29'06"	76 29'06"	SW	190,085	-184,821	-44,423	7	486 151,930	9 236 318,968	304,282			
75	E27D	-	8EXR	245 36'01"	65 36'01"	SW	264,588	-240,956	-109,301	8EXR	486 095,795	9 236 254,090	298,904			
76	E27D	-	9	241 54'06"	61 54'06"	SW	280,347	-247,305	-132,040	9	486 089,446	9 236 231,351	298,550			
77	E27D	-	10	241 54'16"	61 54'16"	SW	181,882	-160,450	-85,656	10	486 176,301	9 236 277,735	298,851			
78	E27D	-	11	229 01'06"	49 01'06"	SW	156,135	-117,869	-102,396	11	486 218,882	9 236 260,995	304,815			
79	E27D	-	12	231 08'31"	51 08'31"	SW	91,768	-71,460	-57,575	12	486 265,291	9 236 305,816	298,450			

 Maior Coord (X) 487 558,844 Menor Coord (X) 486 089,446 Maior Coord (Y) 9 236 612,488 Menor Coord (Y) 9 236 144,042

TopoEVN 3 0 - Sistema para processamento de Levantamentos Topograficos Arquivo BACIA7 25/10/96 15 07 00

Imovel BARRAGEM ROSARIO

Local MUNICIPIO DE LAVRAS DA MANGABEIRA

Interessado Proprietario Data 17/07/96

IN DICE	ALINHAMEN		AZIMUTE		DISTANCIA		LONG	PARC	LAT	PARC	COORD E (X)		COORD N (Y)		COORD (Z)
	EST	P V	COMPENSADO	R U M O	QD	HORIZONTAL	X	(E+,W-)	Y	(N+,S-)	P V	TOT	COMPENS	TOT	COMPENS
1	NM	- E28	165 43'06"	14 16'54"	SE	0,000	0,000	0,000	E28	488 094,582	9 235 716,991	304,292			
2	E28	- E28A	74 02'26"	74 02'26"	NE	1 120,607	1 077,415	308,119	E28A	489 171,997	9 236 025,110	308,994			
3	E28A	- PF	238 57'51"	58 57'51"	SW	66,984	-57,395	-34,535	PF	489 114,602	9 235 990,575	300,659			
4	E28A	- 1	200 56'01"	20 56'01"	SW	140,874	-50,332	-131,576	1	489 121,665	9 235 893,534	292,699			
5	E28A	- 2	212 31'01"	32 31'01"	SW	177,881	-95,620	-149,995	2	489 076,377	9 235 875,115	292,993			
6	E28A	- 3	178 41'21"	1 18'39"	SE	118,974	2,722	-118,943	3	489 174,719	9 235 906,167	294,008			
7	E28A	- 4	142 14'26"	37 45'34"	SE	175,088	107,215	-138,423	4	489 279,212	9 235 886,687	305,652			
8	E28A	- 5	123 16'26"	56 23'34"	SE	227,668	189,614	-126,013	5	489 361,611	9 235 899,097	303,704			
9	E28A	- 6R	116 29'46"	63 30'14"	SE	296,578	265,427	-132,314	6R	489 437,424	9 235 892,796	292,288			
10	E28A	- 7CR	114 10'06"	65 49'54"	SE	245,565	224,040	-100,539	7CR	489 396,037	9 235 924,571	293,576			
11	E28A	- 8	114 53'41"	65 06'19"	SE	323,213	293,181	-136,057	8	489 465,178	9 235 889,053	298,187			
12	E28A	- 9	105 54'06"	74 05'54"	SE	286,765	275,791	-78,570	9	489 447,788	9 235 946,540	299,145			
13	E28A	- 10GR	106 55'31"	73 04'29"	SE	47,100	45,060	-13,712	10GR	489 217,057	9 236 011,398	300,420			
14	E28A	- 11	111 34'01"	68 25'59"	SE	127,231	118,323	-46,769	11	489 290,320	9 235 978,341	299,267			
15	E28A	- 12R	146 04'51"	33 55'09"	SE	100,133	55,876	-83,093	12R	489 227,873	9 235 942,017	290,605			
16	E28A	- 13R	117 21'31"	62 38'29"	SE	143,530	127,476	-65,960	13R	489 299,473	9 235 959,150	291,408			
17	E28A	- 14R	208 09'56"	28 09'56"	SW	70,906	-33,469	-62,510	14R	489 138,528	9 235 962,600	290,288			
18	E28A	- 15R	220 35'16"	40 35'16"	SW	119,196	-77,550	-90,519	15R	489 094,447	9 235 934,591	289,579			
19	E28A	- 16R	225 40'01"	45 40'01"	SW	143,729	-102,808	-100,442	16R	489 069,189	9 235 924,668	290,863			
20	E28A	- 17	241 31'16"	61 31'16"	SW	148,456	-130,492	-70,789	17	489 041,505	9 235 954,321	295,422			

Maior Coord (X) 489 465,178 Menor Coord (X) 488 094,582 Maior Coord (Y) 9 236 025,110 Menor Coord (Y) 9 235 716,991

TopoEVN 3 0 - Sistema para processamento de Levantamentos Topograficos Arquivo BACIAS 25/10/96 15 10 30



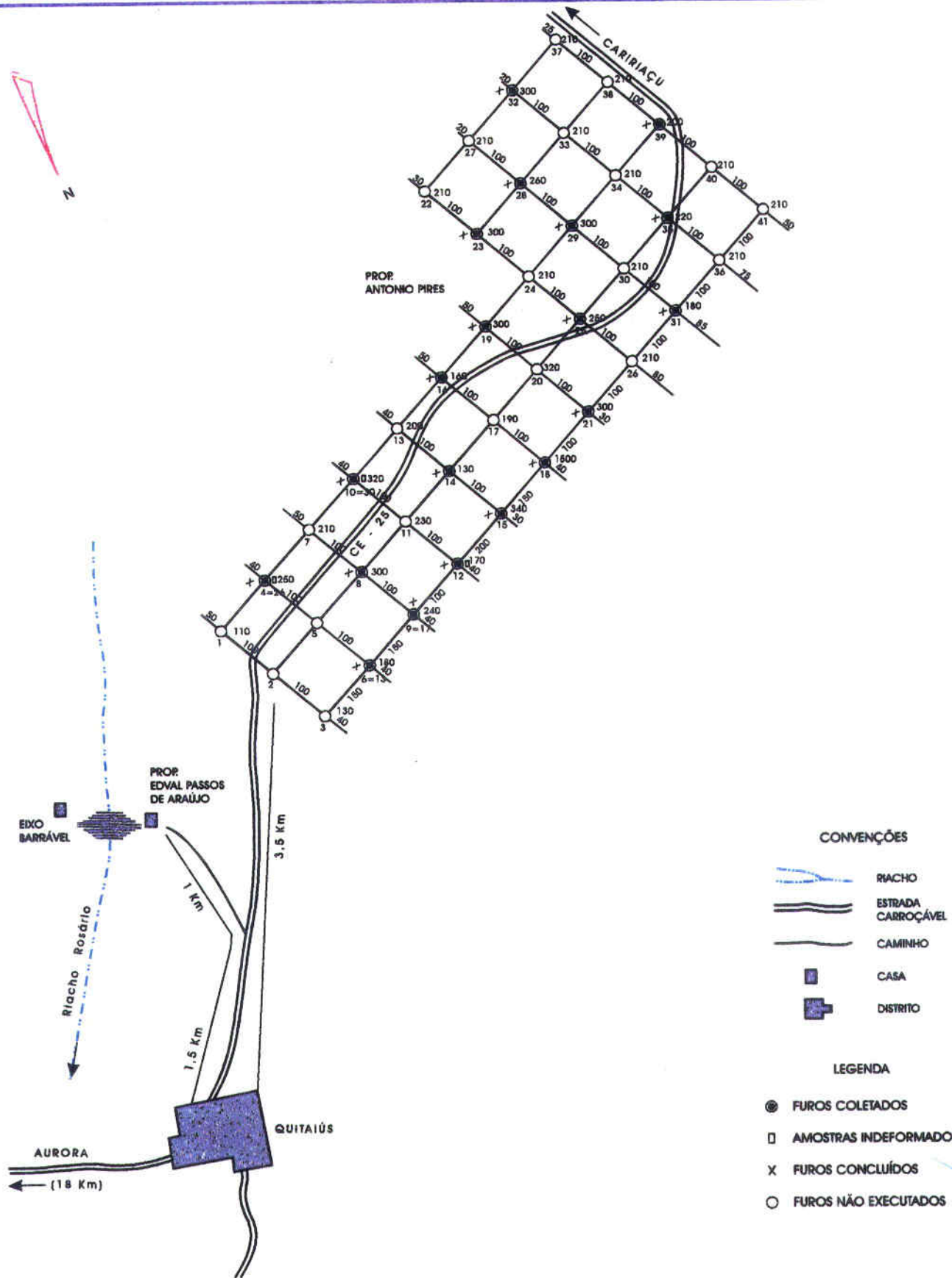
5- PLANTAS



Relação das plantas constantes no TOMO 1A -TEXTOS, os quais serão apresentados a seguir

PLANTAS

- D 1/3 Mapa da Jazida Terrosa – JT1
- D 2/3 : Mapa do Areal – JA1
- D 3/3 . Mapa da pedreira – JP1



CONVENÇÕES

- RIACHO
- ESTRADA CARROÇÁVEL
- CAMINHO
- CASA
- DISTRITO

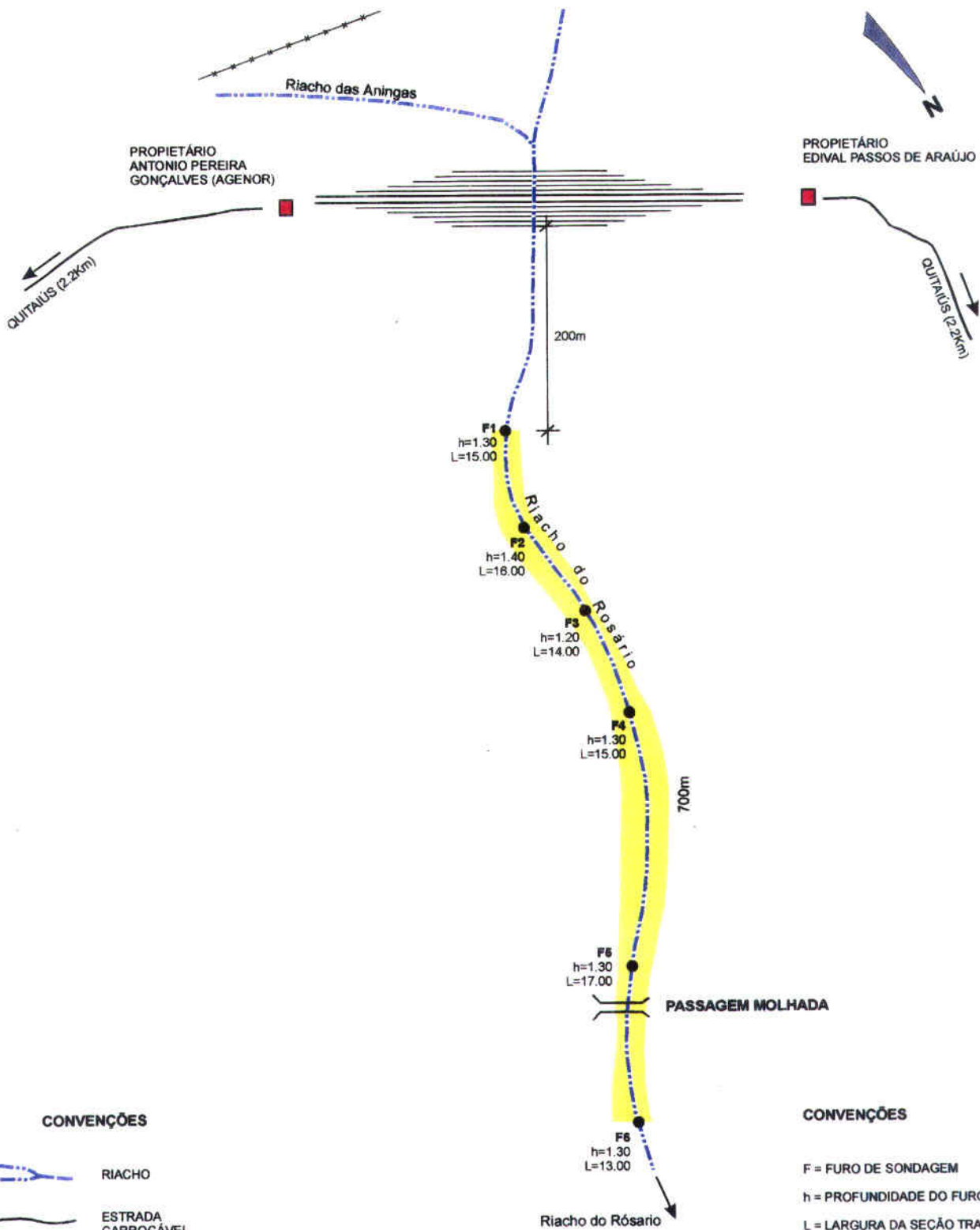
LEGENDA

- FUIROS COLETADOS
- AMOSTRAS INDEFORMADOS
- FUIROS CONCLUÍDOS
- FUIROS NÃO EXECUTADOS

ÁREA TOTAL	545.000m ²
NÚMERO DE FUIROS REALIZADOS	20
PROFUNDIDADE MÉDIA DOS FUIROS	2,42 m
VOLUME TOTAL DE MATERIAL	1.318.900 m ³
CAMADA MÉDIA DE EXPURGO	0,10 m
PROFUNDIDADE MÉDIA ÚTIL	2,32 m
VOLUME DE MATERIAL UTILIZÁVEL	1.264.400 m ³
DISTÂNCIA DA JAZIDA AO EIXO BARRÁVEL	4 Km

ENGESOFT - Engenharia e consultoria Ltda.	
BARRAGEM ROSÁRIO MAPA DA JAZIDA TERROSA - JT 1	
DATA: OUTUBRO / 96	ESCALA: INDICADA
APROVO	Nº D 1/3

000080



CONVENÇÕES

- RIACHO
- ESTRADA CARROÇÁVEL
- CASA
- CERCA

CONVENÇÕES

- F = FURO DE SONDAAGEM
- h = PROFUNDIDADE DO FURO
- L = LARGURA DA SEÇÃO TRANSVERSAL

COMPRIMENTO DO TRECHO	700 m
NÚMERO DE SONDAGENS REALIZADAS	6
ESPESURA MÉDIA DA CAMADA	1.33 m
LARGURA MÉDIA DO TRECHO	15.0 m
VOLUME DO MATERIAL EXPLORÁVEL	18.620 m ³
DISTÂNCIA DO AREAL AO EIXO BARRÁVEL	0.4 Km

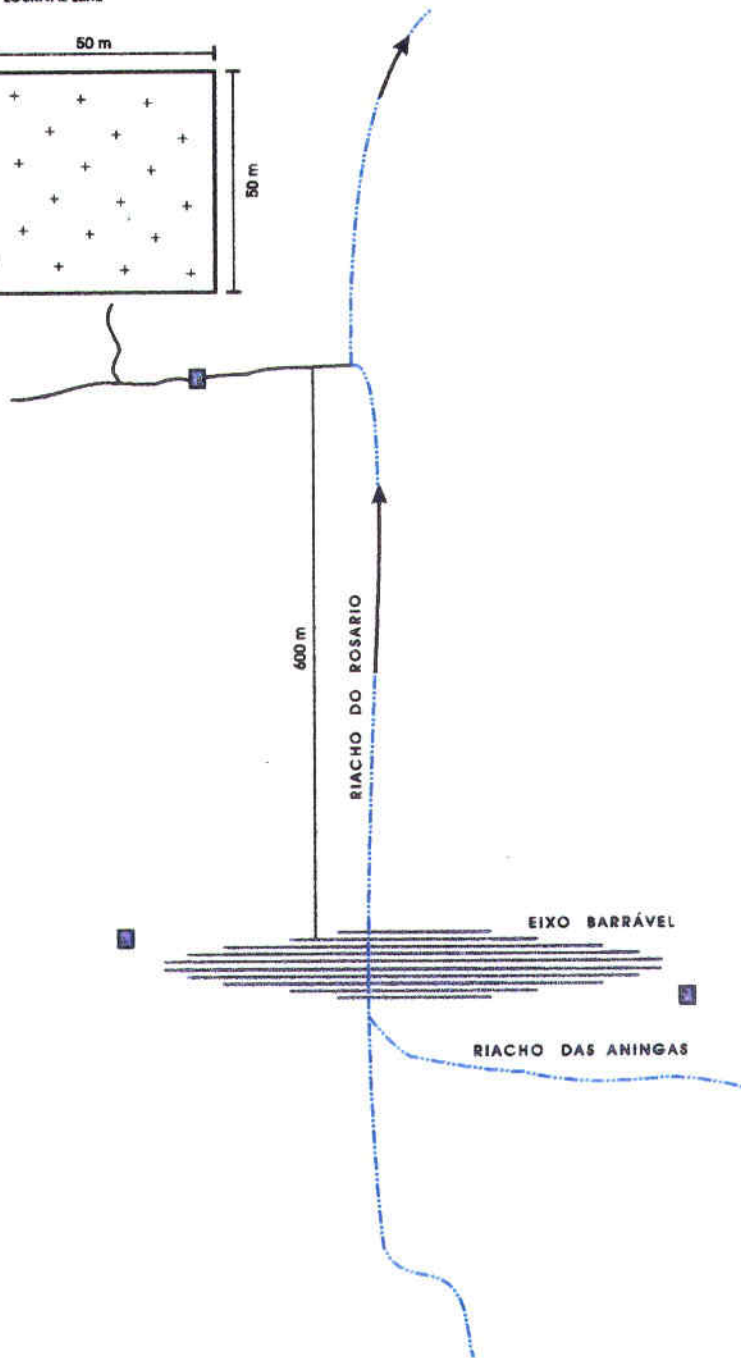
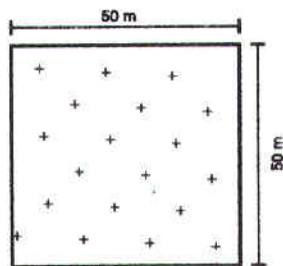
ENGESOFT - Engenharia e consultoria Ltda.

**BARRAGEM ROSÁRIO
MAPA DO AREAL JA 1**





DATA:	OUTUBRO/97	ESCALA:	INDICADA
APROVO:		Nº	D 2/3



PROP
LOURIVAL LEITE



CONVENÇÕES

-  RIACHO
-  CAMINHO
-  CASA
-  PEDREIRA

EXTENSÃO	50 m
LARGURA	50 m
PROFUNDIDADE A EXPLORAR	3 m
VOLUME EXPLORÁVEL	7.500 m ³
DISTÂNCIA PARA O EIXO	0,6 m
CLASSIFICAÇÃO	GNAISSE - XISTOSO

ENGESOFT - Engenharia e Consultoria Ltda.		
BARRAGEM ROSÁRIO MAPA DE PEDREIRA JP 1		
DES.	DATA: OUTUBRO / 96	ESCALA: INDICADA
VISTO.	APROVO	Nº D 3/3