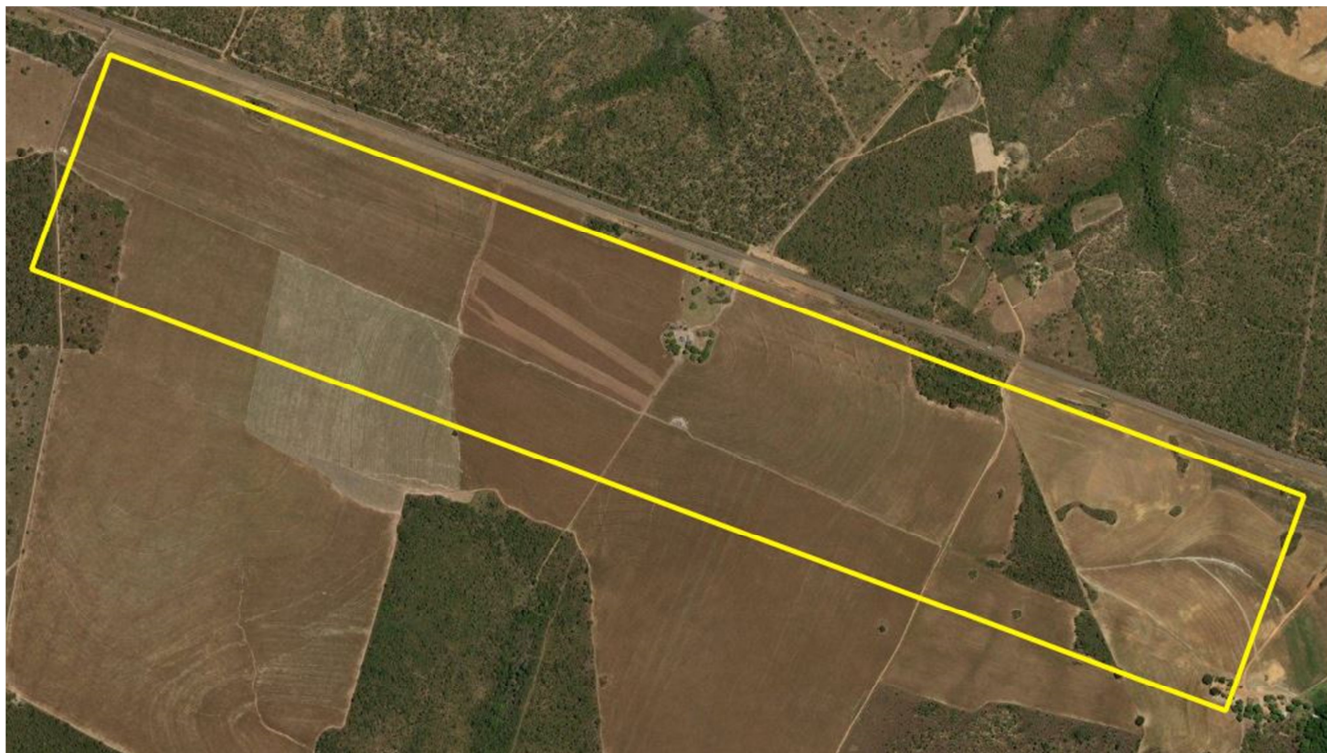


RELATÓRIO TÉCNICO DE TOPOGRAFIA AGRO-GEO GEORREFERENCIAMENTO E TOPOGRAFIA LTDA

AEROPORTO DE BALSAS/MA

**UNIÃO/ MINISTÉRIO DOS TRABALHADORES, PORTOS E
AVIAÇÃO CIVIL/ SECRETARIA DE AVIAÇÃO CIVIL – SAC/MTPA**
Área Empreendimento: **190,0000 ha**



MUNICÍPIO: BALSAS – MA
TÉCNICO CREDENCIADO:
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GEOMENSOR – CREA: 110525461-5
ART: MA20190259585

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1 Relatório Técnico de Topografia

1.1 Considerações

A elaboração do levantamento topográfico na área descrita no decreto nº 34.322, de 12/07/2018, do Estado do Maranhão, localizada no município de Balsas/MA. A equipe de topografia desenvolveu os trabalhos de transporte de coordenadas, cadastro de interferências e densificação de pontos para o detalhamento planialtimétrico, e a precisa representação do relevo.

1.2 Localização

A propriedade levantada fica localizada no município de Balsas, na mesorregião Sul, microrregião, Gerais de Balsas, no estado do Maranhão e a 817 km da capital do Estado São Luís, com as principais vias de acesso pela BR-230 e BR-135.

O município está localizado a uma latitude sul de 07°37'57" e longitude oeste 46°02'08", numa altitude média de 600 m em relação ao nível do mar. Balsas / MA possui como municípios confrontantes: Fortaleza dos Nogueiras, São Raimundo das Mangabeiras, Sambaíba, Tasso Fragoso, Alto Parnaíba, Lizarda/TO, Recursolândia/TO, Campos Lindos/TO, Riachão e Nova Colinas. Com uma área de 13.141,637 km², e uma população estimada em 94.779 habitantes (Censo 2016). O local possui clima tropical. A Figura 1 mostra o município onde o empreendimento será instalado.

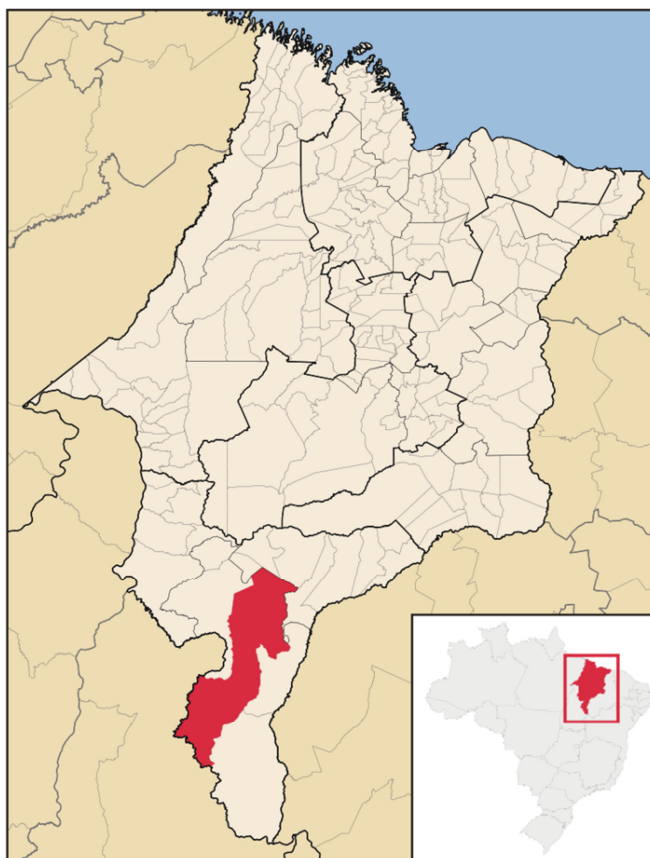


Ilustração 1 – Localização do município de Balsas no Estado do Maranhão.
Fonte: Instituto Brasileiro Geográfico de Estatística – IBGE.

Para chegar ao local do levantamento parte-se do município de Balsas pela BR-230 em direção ao município de Riachão na direção Oeste, por cerca de 13 Km.

1.3 Referencial Bibliográfico

1.3.1 Estudos Topográficos

Os estudos de topografia para levantamento topográfico do terreno possuem a premissa de fornecer elementos suficientes para representação gráfica do relevo, elementos para cadastro e densificação dos pontos para representar as curvas de nível.

Através da utilização de aparelhos de rastreamento por satélite, são coletadas as informações de pontos georreferenciados e servem de partidas para representar o relevo, realizados o cadastro e levantamento de pontos, em que o tamanho da seção e a quantidade de pontos variam conforme o tipo do relevo, mas de forma a descreve-lo apropriadamente.

Esse estudo tem início através do rastreio de um Marco de Apoio “Base”, o qual é coletado através de um receptor GNSS, (Global Navigation Satellite System), que faz uso do programa CSRS-PPP (GPS Precise Point Positioning) desenvolvido pelo NRCan (Geodetic Survey Division of Natural Resources of Canada). Ele permite aos usuários com receptores GPS e/ou GLONASS, obterem coordenadas referenciadas ao SIRGAS2000 (Sistema de Referência Geocêntrico para as Américas) e ao ITRF (International Terrestrial Reference Frame) através de um processamento preciso. O IBGE-PPP processa dados GNSS (GPS e GLONASS) que foram coletados por receptores de uma ou duas frequências no modo estático ou cinemático.

Os resultados são fornecidos através de relatórios os quais são aceitos pelo INCRA em processos para a certificação de imóveis rurais. Esta orientação encontra-se no manual técnico de posicionamento para o georeferenciamento de imóveis rurais - ano 2013 (aplicação da lei 102267 - 28/08/2001)

É necessário apenas que o usuário informe o arquivo de observação no formato RINEX ou HATANAKA, se o levantamento foi realizado no modo estático ou cinemático, o modelo e a altura da antena utilizada, e um e-mail válido. Ao final do processamento será disponibilizado um link para obtenção dos arquivos com os resultados. A figura 2 mostra os gráficos demonstrativos do processamento da base de apoio.

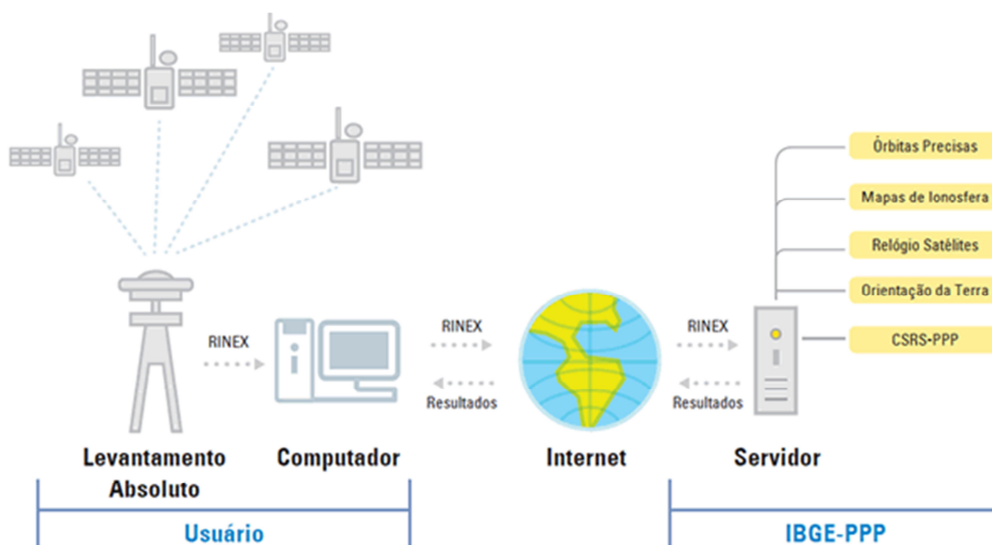


Ilustração 2 – Serviço online para pós-processamento de dados GNSS – IBGE-PPP.

1.3.2 Parâmetros de Referência

Para a realização do levantamento topográfico é necessária a análise e escolha de certos critérios, que corretamente adotados permitem a interpretação clara e precisa dos dados colhidos em campo. Destacam-se entre eles a escolha do Datum, o modelo de ondulação geoidal, e o sistema de projeção, cujo Sistema de Referência irão compor.

1.3.2.1 Datum

O Datum refere-se ao modelo matemático teórico da representação da superfície da Terra ao nível do mar utilizado pelos cartógrafos numa dada carta ou mapa. De uma forma muito simplificada, Datum providencia o ponto de referência a partir do qual a representação gráfica dos paralelos e meridianos, e consequentemente do todo o resto que for desenhado na carta, está relacionado e é proporcionado. Utilizado para representar características terrestres, sejam elas geométricas ou físicas. Na prática, serve para a obtenção de coordenadas (latitude e longitude), que possibilitam a representação e localização em mapa de qualquer elemento da superfície do planeta.

Para isso existem dois tipos de Datum, o Topocêntrico que tem origem na superfície da terra, e o Geocêntrico, que permite a representação das características terrestres com maior veracidade, consistindo em uma origem baseada no centro de massa da terra. Usa um elipsoide geocêntrico e equipotencial. É uma superfície onde o potencial gravítico é o mesmo em qualquer ponto, e o eixo polar coincide com o eixo de rotação do centro da terra.

Podemos perceber isso facilmente em nosso planeta que não possui forma plana e muito menos redonda, ela é achatada nos pólos, assemelha-se a uma elipse tridimensional chamada elipsoide. Um elipsoide pode ser definido por uma série de características matemáticas. Como o conhecimento da humanidade tem aumentado ao longo dos séculos, a forma e dimensão da terra é cada vez conhecida com mais precisão. Modelos matemáticos da forma da terra têm uma definição mais precisa. O mais rigoroso modelo é chamado Sistema Geodésico de referência 1980(GRS80). O formato do elipsoide se aproxima ao do geoide, a verdadeira figura da Terra ou qualquer outro corpo planetário. Devido à sua relativa simplicidade, os elipsoides de referência são usados como uma superfície preferida na qual são efetuados os cálculos da rede geodésica e são definidas as coordenadas de pontos tais como latitude, longitude e altitude, em seguida é realizada a correção de sua altitude para o modelo geoidal.

1.3.2.2 Projeção

Os sistemas de projeções cartográficas foram desenvolvidos para dar uma solução ao problema da transferência de uma imagem da superfície curva da esfera terrestre para um plano da carta, o que sempre vai acarretar deformações.

Os sistemas de projeções constituem-se de uma fórmula matemática que transforma as coordenadas geográficas, a partir de uma superfície esférica (elipsoidal), em coordenadas planas, mantendo correspondência entre elas. O uso deste artifício geométrico das projeções consegue reduzir as deformações, mas nunca eliminá-las.

Assim surgiu a projeção de Mercator é uma projeção cartográfica cilíndrica elaborada pelo geógrafo, cartógrafo e matemático Gerhard Mercator (1512-1594). É, atualmente, uma das projeções mais utilizadas em todo o mundo. Como a Terra é esférica, a

distância mais curta a ser percorrida sobre a sua superfície não é uma reta, mas uma curva, que recebe o nome de loxodrômica. O principal mérito da projeção de Mercator foi a sua capacidade de representar uma loxodrômica cartograficamente como uma reta. Por esse motivo, sua obra é amplamente utilizada atualmente.

A Projeção Transversa de Mercator, é o resultado da projeção da superfície da esfera em um cilindro tangente ao meridiano central. São úteis para representar áreas que são maiores no sentido Norte-Sul do que no sentido Leste-Oeste. Seguindo esse raciocínio as distorções aumentam a partir do meridiano central, tanto em escala e distância como em direção e área, existindo também a projeção RTM (Regional Transversa de Mercator) e LTM (Local Transversa de Mercator), que varia conforme a necessidade do levantamento.

Aprimoramentos efetuados sobre a projeção de Gauss-Krüger em 1947 pelas forças armadas dos EUA deram origem ao sistema UTM (Universal Transversa de Mercator), à maneira como é definido atualmente e dando-lhe característica universal.

1.3.2.3 Sistema de Referência

A união do sistema de projeção e do Datum irão compor o alicerce primordial em um levantamento topográfico, o Sistema de Referência.

Os sistemas de referência, são utilizados para descrever as posições de objetos, quando é necessário identificar a posição de uma determinada informação na superfície da Terra são utilizados os Sistemas de Referência Terrestres ou Geodésicos. Estes por sua vez, estão associados a uma superfície que mais se aproxima da forma da Terra, e sobre a qual são desenvolvidos todos os cálculos das suas coordenadas.

Define-se por Sistema Geodésico Brasileiro - SGB - o conjunto de pontos geodésicos implantados na porção da superfície terrestre delimitada pelas fronteiras do país. Em outras palavras é o sistema ao qual estão referidas todas as informações espaciais no Brasil.

1.3.2.4 Modelo de Ondulação Geoidal

Em 1828, C.F. Gauss introduziu um modelo aperfeiçoado da figura da Terra, mas o termo geoide foi criado em 1873 por J.F. Listing. O geoide é limitado por uma superfície equipotencial do campo de gravidade da Terra que coincide com o nível médio não perturbado dos mares.

Em cada ponto o vetor gravidade será perpendicular à superfície. Pode-se imaginar a superfície geoidal prolongada através dos continentes. Ela tem um formato ondulatório levemente irregular que acompanha as variações da estrutura de distribuição de massa da Terra. Essa ondulação é suave e fica em torno ± 30 m, sendo o valor máximo de ± 100 m, em relação ao elipsóide de referência.

A altitude determinada utilizando um receptor GNSS não está relacionada ao nível médio do mar, mas a um elipsóide de referência com dimensões específicas. Portanto, torna-se necessário conhecer a ondulação geoidal (diferença entre as superfícies do geóide e elipsóide) para que a altitude acima do nível médio do mar possa ser obtida.

Dessa forma para obter a transformação de altitudes elipsoidais para geoidais de maneira facilitada, podem ser utilizados softwares específicos, como o MAPGEO 2010, fornecido e desenvolvido pelo IBGE e pela Escolha Politécnica da Universidade

de São Paulo (EPUSP), sendo que através desse sistema é possível obter a ondulação geoidal em um ponto ou conjunto de pontos em qualquer local do país, e através de fórmula matemática, identificar a altitude geoidal. A Figura 3 demonstra a diferença entre o elipsoide e o geóide.

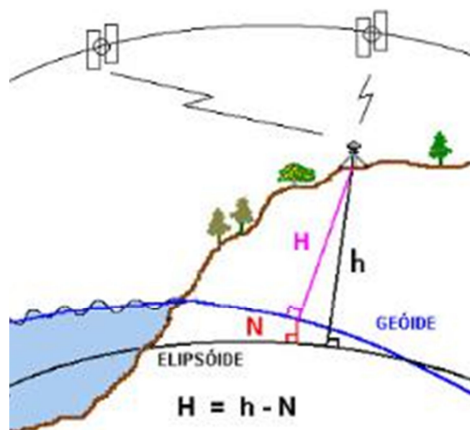


Ilustração 3 – Diferenças entre Elipsoide e Geóide.
Fonte: Instituto Brasileiro Geográfico de Estatística – IBGE.

1.3.3 Instrumentos empregados

Para realizar o levantamento topográfico de maneira precisa, atualmente se torna inviável essa execução através do método expedito, consistindo de operações rápidas de medida no campo, de precisão grosseira. Então se torna imprescindível o uso de equipamentos mais precisos de equipamentos para o posicionamento, e principalmente na obtenção de altitudes, assim foi usada como ferramenta o sistema de posicionamento global, e os métodos de trabalho que são possíveis com ele.

1.3.4 Transporte de Coordenadas

O procedimento fundamental para o estabelecimento de uma rede geodésica, é o de posicionar os pontos, atribuindo-lhes coordenadas definidas em função da sua posição relativa em relação ao Datum, e em função da geometria da superfície de referência utilizada (Sistema de Referência).

Quanto mais a superfície de referência se aproxima da Terra verdadeira, mais as coordenadas geométricas se aproximarão das naturais. A operação matemática que possibilita o estabelecimento das coordenadas, conforme descrito, denomina-se transporte de coordenadas.

Inicialmente são verificadas em um raio máximo de 500 km do levantamento duas referências, como marcos do IBGE, ou de georreferenciamento de imóvel rural, aprovados pelo Instituto Nacional de Colonização e Reforma Agrária (INCRA). Os equipamentos permanecem rastreando nos três pontos simultaneamente por no mínimo 4 h. É feita uma medição a partir de uma das referências até o ponto implantado, em seguida outra medição do ponto implantado até a segunda. Sendo necessário realizar no pós-processamento dos dados o ajustamento da poligonal, que através do método dos mínimos quadrados podem minimizar os erros encontrados, e fornecer coordenadas com precisões aceitáveis, para pontos que serão utilizados como referência na sequência do levantamento.

A segunda etapa do transporte de coordenadas ocorre localmente, através do rastreamento baseado em um ponto ajustado, onde um segundo equipamento percorre o terreno executando o levantamento dos demais pontos, porém não pode distanciar-se indefinidamente, esse deslocamento varia conforme o relevo, tipo de equipamento, e o método de medição utilizado, em um raio de até 20 km em relação a base. Nesse período é realizada a densificação de pontos no terreno ocorrendo simultaneamente o levantamento planialtimétrico e o cadastro.

1.3.4.1 Levantamento Planialtimétrico

O levantamento planialtimétrico é a junção das informações obtidas de planimetria e de altimetria de um ou mais pontos, permitindo representar os acidentes geográficos (naturais ou artificiais) do terreno em função de suas coordenadas planas, sempre partindo de uma origem pré-definida, com intuito de fornecer o maior número de informações de maneira real e objetiva, sobre a superfície que será representada através de curvas de nível, para efeitos de estudo, planejamento e viabilização, e projetos.

1.3.4.2 Cadastro

É a atividade realizada basicamente em campo, utilizando várias técnicas de obtenção de informações como fichas cadastrais, coletores de dados, equipamentos de navegação por satélite, fotografias e outros. As informações são de caráter construtivo, identificando todas as interferências existentes como cercas, rios, lagos, edificações, estradas, postes, linhas de transmissão, tubulações, estradas existentes entre outros.

1.4 Metodologia e Resultados

1.4.1 Parâmetros Adotados

Depois de compreendidos os conceitos necessários para o levantamento topográfico, é imprescindível a escolha exata dos critérios que permitirão transmitir com maior rigor as informações colhidas em campo, e que influenciarão diretamente no produto final. Dessa forma foi realizada a análise do Datum de referência, o sistema de projeção e a ondulação geoidal mais adequada.

1.4.2 Adoção do Datum

Para desenvolver os levantamentos foi optado pela adesão de um Datum Geocêntrico para as Américas (SIRGAS 2000), o qual esta em vigor no Brasil, como Datum.

- Semi-eixo maior: 6378137,000 metros;
- Achatamento: 1/298,257222101;

Ponto datum: Geocêntrico.

1.4.3 Sistema de Projeção Adotado

É um sistema utilizado mundialmente, o fuso em que se encontra indica em que parte do globo se localiza, utilizado como unidade para medir distâncias e determinar posição do objeto, e diferente das coordenadas geográficas (Geodésicas), o sistema UTM não acompanha a curvatura da terra.

Devido à localização da obra ficar longe dos pólos da terra, foi optado pela sua utilização para os cálculos de todos os pontos levantados. O sistema plano retangular UTM (Universal Transversa de Mercator). Acrescidos 10.000.000m no equador e 500.000m no meridiano central. A Figura 4 apresenta os parâmetros do sistema UTM.

No decorrer do trabalho foi cedido um levantamento realizado para o projeto de uma interseção nas proximidades, o qual estava utilizando o Sistema LTM, e que posteriormente foi convertido para que pudesse ser utilizado.

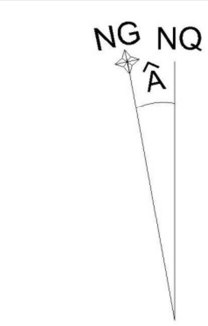
PROJEÇÃO UNIVERSAL TRANSVERSA DE MERCATOR	
U T M	
	SGR / DATUM: SIRGAS2000
	MERIDIANO CENTRAL: -45°
	VÉRTICE: M-01
	LATITUDE: -7°28'22.1334"
LONGITUDE: -46°11'51.9296"	
CONVERGÊNCIA MERIDIANA: 0°9'20.873234"	FATOR ESCALA K: 0,99981476

Ilustração 4 – Projeção Universal Transversa de Mercator
Fonte: Projeto Aeroporto de Balsas – AGRO GEO.

1.4.4 Meridiano Central Adotado

O sistema UTM não é uma simples projeção de mapa. Em vez disso, ele divide a Terra em sessenta zonas, cada uma possui seis graus de longitude, e utiliza uma projeção secante em cada zona.

O terreno se encontra integralmente na setor do Meridiano Central 45° WGr, na Zona UTM 23M, representado na Figura 5 logo abaixo, sendo este o meridiano adotado para a confecção das plantas do levantamento planialtimétrico e cadastral do empreendimento.

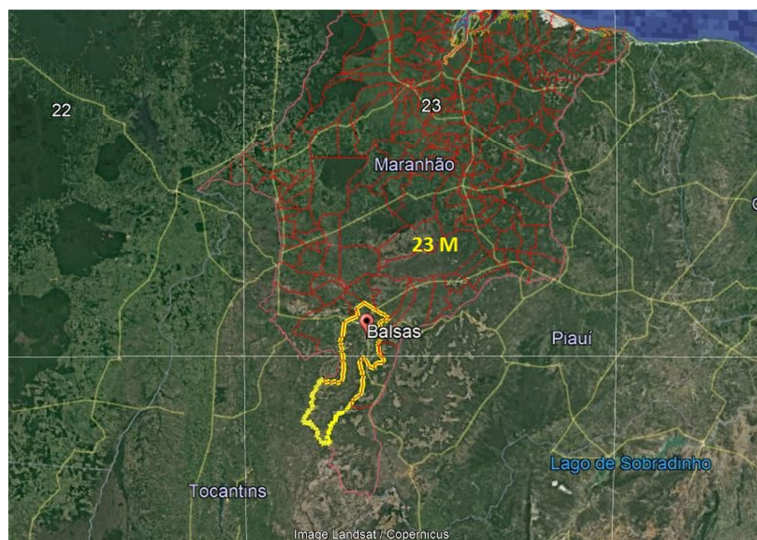


Ilustração 5 – Localização da Zona 23M e do Município de Balsas/MA.
Fonte: Google Earth

1.4.5 Monografia

Em anexo, apresentamos a monografia do marco de Referência e Apoio BASE-165, situado na Fazenda São José, Município de Balsas/MA.


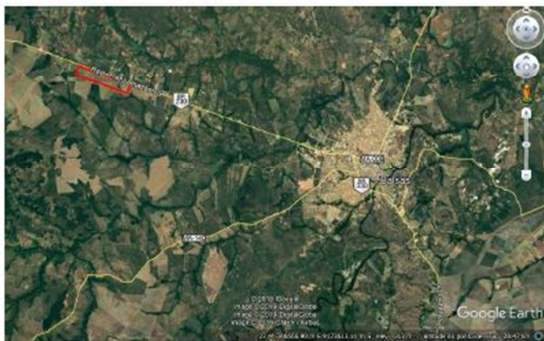
MONOGRAFIA DE VÉRTICE DE APOIO

Imóvel:	AEROPORTO DE BALSAS		
Município:	BALSAS	UF:	MA
Matrícula:	-	Código do móvel:	-
Responsável Técnico:	EDEJANE FERREIRA BARROS	Código Credenciado:	BSTC

CÓDIGO DO VÉRTICE DE APOIO: BASE-165 SIRGAS2000			
Coordenadas Elipsoidais	Coordenadas Planas UTM	PRECISÕES	Data Observações:
$\phi = -7^{\circ}30'30.0011''$	N = 9.169.896,96m	Sigma (ϕ) = 0.001	28/08/2017
$\lambda = -46^{\circ}07'27.2503''$	E = 375.958,45m	Sigma (λ) = 0.003	
Helip. = 232,55m	MC = 45° WGr	Sigma (h) = 0.006	

Legenda: ϕ = Latitude; λ = Longitude; Helip. = Altura Elipsoidal; MC = Meridiano Central

EQUIPAMENTO UTILIZADO		
MARCA: TOPCON	MODELO: HIPER SR	NR.SÉRIE: 1209-12082

Fotografia do Vértice de Apoio:	Croqui de Localização: (B=Base, C=Cidade, I=imóvel)
	

Localização:

O marco de Base foi materializado em concreto, localizado a Sede da Fazenda São José (Vizinha), e é de conhecimento do proprietário.

Descrição:

Partindo da cidade de BALSAS, pela Rodovia Federal BR-230, em direção a área do empreendimento Aeroporto de Balsas/MA por uma distância de 13Km, vira à esquerda na estrada de acesso ao imóvel por cerca de 200 metros.

Estações de Referência utilizadas:

Foi utilizado o método do Posicionamento por Ponto Preciso (PPP), disponibilizado pelo IBGE (Instituto Brasileiro de Geografia e Estatística) em seu site www.ibge.gov.br.

SEGUIE, ANEXO, O RELATÓRIO DO POSICIONAMENTO POR PONTO PRECISO (PPP), DESTA VÉRTICE DE APOIO, GERADO PELO IBGE.

1.4.6 Equipamentos

Para a realização do trabalho em campo, foram examinados os equipamentos de topografia que melhor se adequassem as condições que o levantamento exige. Então, foi optado pela escolha de um equipamento que utiliza o sistema de posicionamento global, e averiguadas algumas informações importantes, como as especificações dos aparelhos, precisão e configuração que foram utilizadas em campo, assim como as ferramentas de escritório, para o transporte de coordenadas.

Para o levantamento planialtimétrico, cadastro e densificação de pontos, foi feito a utilização de dois receptores GNSS, Hiper SR da Topcon, sendo utilizado na Base, conforme monografia em anexo e o GNSS RTK TPS T10, utilizando o método RTK.

1.4.6.1 Configuração do Equipamento de Rastreio

A configuração utilizada pelos aparelhos para os rastreios foi a seguinte:

- Ângulo de corte da máscara: 15°
- PDOP máximo: 5
- Taxa de gravação: 5 segundo
- Linha base máxima: 9 km

1.4.6.2 Precisão

Inicialmente foram implantados quatro marcos auxiliares, os quais tiveram um tempo mínimo de rastreio de 30 minutos e máximo de 48 minutos, foram pós-processados, e na sequência foram utilizados como referência na etapa de densificação de pontos na superfície do relevo em RTK. A precisão dos aparelhos está contida na tabela anexa. As Tabelas 6 e 7 descrevem os equipamentos utilizados em campo e softwares em escritório.

1.4.6.3 Especificações do Equipamento

EQUIPAMENTOS	MARCA	MODELO	Precisão H	Precisão V
2 (dois) GPS dupla frequência (L1/L2/L2C/RTK)	Topcon	Hiper SR	10mm+1,0ppm	15mm+1,0ppm
1 (um) GPS dupla frequência (L1/L2/RTK)	CHC	T10	3mm+0,5ppm	8mm+1,0ppm

Ilustração 6 – Equipamentos utilizados no levantamento.

Fonte: Resp. Técnico da Empresa AGRO GEO.

1.4.6.4 Softwares de Escritório

SOFTWARE	UTILIZAÇÃO	VERSÃO
AutoCAD Civil 3D	Confecção Desenho	2015
Autotopo	Informações Topográficas no Desenho	V2014
Topcon Tools	Processamento de Dados	8.2.3
Windows Mobile	Descarga de Dados RTK	6.0.6784.0

Ilustração 7 – Softwares utilizados no escritório.

*Autotopo é uma ferramenta que fica dentro do AutoCad, para facilitar a confecção do desenho e importação de arquivos topográficos para o AutoCad.

Fonte: Resp. Técnico da Empresa AGRO GEO.

1.4.7 Execução dos trabalhos

A equipe de topografia iniciou os trabalhos de reconhecimento e levantamento no local do empreendimento no dia 01/12/2018, com o rastreamento em campo, e posterior ajustamento de uma base geodésica, utilizada como ajustamento PPP - IBGE.

Foi realizado entre os dias 01/12/2018 a 17/12/2018 o levantamento de densificação e cadastro de parte das interferências existentes no local, assim como informações sobre a faixa de domínio da rodovia BR-230 nas proximidades do terreno.

Simultaneamente aos levantamentos de campo foram desenvolvidos os serviços de escritório em que eram acompanhados e conferidos os trabalhos.

O presente levantamento não foi possível ter sua continuidade, pois o proprietário da área na data de 17/12/2018 ao final do ultimo dia trabalhado, informou que não iria autorizar que a equipe de topografia continuasse o trabalho no dia seguinte **18/12/2019**, visto que começara os trabalhos de plantio e tratos culturais na área da Safra 2018/19, impossibilitando assim a equipe de entrar na área para continuar o levantamento.

Segue relatório fotográfico de situação atual pós levantamento na área:



Imagem: 01



Imagem: 02



Imagem: 03



Imagem: 04

1.4.8 Transporte de Coordenadas

A primeira etapa do transporte de coordenadas, consiste na determinação das coordenadas da base Geodésica (BASE-165), que foram obtidas através do método estático, onde teve ajustamento feito pelo método PPP - IBGE, referenciada pelo Sistema Geodésico Brasileiro cujas coordenadas finais têm precisão da ordem de ± 5 mm, configurando-se como uma das redes mais precisas do mundo.

Com o objetivo de transportar as coordenadas reais para dentro do empreendimento, foi realizado o pós-processamento ajustamento dos pontos efetuado no pós-processamento, e promovida a materialização dos marcos de apoio, com a utilização de receptor GPS de dupla frequência (L1/L2), e através de cálculos computacionais, utilizando softwares específicos, tal como o Topcon Tools (programa que processa os pontos e faz o ajustamento de acordo coordenadas fornecidas pelo IBGE), objetivando determinar a posição espacial dos pontos de referenciados, utilizados para as partidas das medições realizadas no local. A seguir a Tabela 8 apresenta os resultados finais de ajustamento da coordenada da Base, fornecida pelo IBGE.

Sumário do Processamento do marco: BASE-165

Início:AAAA/MM/DD HH:MM:SS,SS	2017/08/28 11:47:20,00
Fim:AAAA/MM/DD HH:MM:SS,SS	2017/08/28 23:22:05,00
Modo de Operação do Usuário:	ESTÁTICO
Observação processada:	CÓDIGO & FASE
Modelo da Antena:	TPSHIPPER_SR NONE
Órbitas dos satélites: ¹	RÁPIDA
Frequência processada:	L3
Intervalo do processamento(s):	5,00
Sigma ² da pseudodistância(m):	5,000
Sigma da portadora(m):	0,010
Altura da Antena ³ (m):	1,550
Ângulo de Elevação(graus):	10,000
Resíduos da pseudodistância(m):	2,43 GPS
Resíduos da fase da portadora(cm):	1,03 GPS

Coordenadas SIRGAS

	Latitude(gms)	Longitude(gms)	Alt. Geo.(m)	UTM N(m)	UTM E(m)	MC
Em 2000,4 (E a que deve ser usada) ⁴	-7° 30' 30,0010"	-46° 07' 27,2504"	232,55	9169896.962	375958.446	-45
Na data do levantamento ⁵	-7° 30' 29,9943"	-46° 07' 27,2526"	232,55	9169897.167	375958.378	-45
Sigma(95%) ⁶ (m)	0,001	0,003	0,006			
Modelo Geoidal	MAPGEO2015					
Ondulação Geoidal (m)	-23,85					
Altitude Ortométrica (m)	256,40					

Precisão esperada para um levantamento estático (metros)

Tipo de Receptor	Uma frequência		Duas frequências	
	Planimétrico	Altimétrico	Planimétrico	Altimétrico
Após 1 hora	0,700	0,600	0,040	0,040
Após 2 horas	0,330	0,330	0,017	0,018
Após 4 horas	0,170	0,220	0,009	0,010
Após 6 horas	0,120	0,180	0,005	0,008

¹ Órbitas obtidas do International GNSS Service (IGS) ou do Natural Resources of Canada (NRCAN).

² O termo "Sigma" é referente ao desvio-padrão.

³ Distância Vertical do Marco ao Plano de Referência da Antena (PRA).

⁴ A coordenada oficial na data de referência do Sistema SIRGAS, ou seja, 2000,4. A redução de velocidade foi feita na data do levantamento, utilizando o modelo VEMOS em 2000,4.

⁵ A data de levantamento considerada é a data de início da sessão.

⁶ Este desvio-padrão representa a confiabilidade interna do processamento e não a exatidão da coordenada.

Os resultados apresentados neste relatório dependem da qualidade dos dados enviados e do correto preenchimento das informações por parte do usuário.

Em caso de dúvidas, críticas ou sugestões contate: ibge@ibge.gov.br ou pelo telefone 0800-7218181.

Este serviço de posicionamento faz uso do aplicativo de processamento CSRS-PPP desenvolvido pelo Geodetic Survey Division of Natural Resources of Canada (NRCAN).

Processamento autorizado para uso do IBGE.

Ilustração 8 – Sumário de processamento da Base PPP - IBGE.

Fonte: Instituto Brasileiro Geográfico de Estatística – IBGE.

2 Memorial Descritivo

Imóvel : **AEROPORTO DE BALSAS**
Proprietário : **UNIÃO/ MIN. DOS TRANSP. PORT. E AVIAÇÃO CIVIL...**
Município : **BALSAS**
Comarca : **BALSAS - MA**
U.F. : **MA**
Área (ha) : **190,0000 ha**
Perímetro (m) : **7.710,00 m**

DESCRIÇÃO DO PERÍMETRO

Inicia-se a descrição deste perímetro no vértice **M-01** de coordenadas **N 9.173.802,87m** e **E 367.834,65m** situado no limite da FAZENDA SANTA MÔNICA, com o limite da faixa de domínio da RODOVIA FEDERAL BR-230, deste, segue confrontando com a RODOVIA FEDERAL BR-230, que liga BALSAS A RIACHÃO a FAZENDA SANTA MÔNICA, com os seguintes azimutes e distâncias: 110°01'08" e distância 3.270,00m, até o vértice **M-02** de coordenadas **N 9.172.683,45m** e **E 370.907,07m**; deste, segue confrontando com a FAZENDA SANTA MÔNICA, com os seguintes azimutes e distâncias: 200°01'08" e 585,00m, até o vértice **M-03** de coordenadas **N 9.172.133,80m** e **E 370.706,81m**; 290°01'08" e 3.270,00m, até o vértice **M-04** de coordenadas **N 9.173.253,22m** e **E 367.634,38m**; 20°01'08" e 585,00m, até o vértice **M-01**, de coordenadas **N 9.173.802,87m** e **E 367.834,65m**; situado no limite da FAZENDA SANTA MÔNICA, com o limite da RODOVIA FEDERAL BR-230, vértice inicial da descrição deste perímetro.

3 Relatório de Ajustamento



RELATÓRIO DE AJUSTAMENTO DE PONTOS

Nome do Projeto: Per_011218.ttp

Pasta do Projeto: C:\Users\Henrique\Documents\AGROGEO\Geoprocessamento\Aero_Balsas\2018\Processamento\Perímetro

Hora da Criação do Projeto: 03/12/2018 10:26:46

Criado por: EDEJANE

Unidade Linear: Meters

Unidade Angular: DMS

Projeção: UTMSouth-Zone_23 : 48W to 42W

Datum: SIRGAS 2000

Geóide:

AJUSTAMENTO

Tipo de Ajustamento: Plano + Altura, Minimal constraint

Nível de Confiança: 68 %

Numero de pontos Ajustados: 5

Numero de Pontos de Controle Planimétricos: 1

Numero de vetores GPS utilizados: 4

Plano UWE A posteriori: 1, Bounds: (1, 1)

Numero de Pontos de Controle Altimétricos: 1

Numero de Pontos de Controle Altimétricos Ponderados: 1

A posteriori height UWE: 1, Bounds: (1, 1)

COORDENADAS UTM

Nome	Longitude	Desv Padrão e (m)	Latitude	Desv Padrão n (m)	Alt Elip (m)	Desv Padrão u (m)
AUX-M-0001	46°11'56,081"W	0	7°28'40,403"S	0	294,37	0,01
AUX-M-0002	46°11'56,585"W	0	7°28'30,084"S	0	295,41	0,01
AUX-M-0003	46°10'08,458"W	0	7°29'02,961"S	0	273,37	0,01
AUX-M-0004	46°10'18,032"W	0,02	7°29'16,192"S	0,02	267,07	0,05
BASE	46°07'27,250"W	0	7°30'30,001"S	0	232,55	0,01

COORDENADAS GEOGRÁFICAS

Nome	Latitude	Longitude	Alt Elip (m)	Código
AUX-M-0001	7°28'40,403"S	46°11'56,081"W	294,37	
AUX-M-0002	7°28'30,084"S	46°11'56,585"W	295,41	
AUX-M-0003	7°29'02,961"S	46°10'08,458"W	273,37	
AUX-M-0004	7°29'16,192"S	46°10'18,032"W	267,07	
BASE	7°30'30,001"S	46°07'27,250"W	232,55	

DESVIO PADRÃO

Nome	Latitude	Longitude	Alt Elip (m)	Código
AUX-M-0001	7°28'40,403"S	46°11'56,081"W	294,37	
AUX-M-0002	7°28'30,084"S	46°11'56,585"W	295,41	
AUX-M-0003	7°29'02,961"S	46°10'08,458"W	273,37	
AUX-M-0004	7°29'16,192"S	46°10'18,032"W	267,07	
BASE	7°30'30,001"S	46°07'27,250"W	232,55	

FATOR DE ESCALA

Nome	Latitude	Longitude	Alt Elip (m)	Código
AUX-M-0001	7°28'40,403"S	46°11'56,081"W	294,37	
AUX-M-0002	7°28'30,084"S	46°11'56,585"W	295,41	
AUX-M-0003	7°29'02,961"S	46°10'08,458"W	273,37	
AUX-M-0004	7°29'16,192"S	46°10'18,032"W	267,07	
BASE	7°30'30,001"S	46°07'27,250"W	232,55	

Nome	dN (m)	dE (m)	dZ (m)	Horz RMS (m)	Vert RMS (m)	Tipo Solução
AUX-M-0001-BASE	-3344,42	8249,55	-61,82	0,01	0,01	Fixo
AUX-M-0002-BASE	-3661,33	8265,84	-62,86	0	0,01	Fixo
AUX-M-0003-BASE	-2660,45	4948,53	-40,82	0	0,01	Fixo
AUX-M-0004-BASE	-2253,28	5240,92	-34,52	0,03	0,05	Fixo

DISTANCIA DURAÇÃO E SOLUÇÃO

Nome	dN (m)	dE (m)	dZ (m)	Horz RMS (m)	Vert RMS (m)
AUX-M-0001-BASE	-3344,42	8249,55	-61,82	0,01	0,01
AUX-M-0002-BASE	-3661,33	8265,84	-62,86	0	0,01
AUX-M-0003-BASE	-2660,45	4948,53	-40,82	0	0,01
AUX-M-0004-BASE	-2253,28	5240,92	-34,52	0,03	0,05

PONTOS DE CONTROLE

Nome	Latitude	Longitude	Alt Elip (m)	Código
BASE	7°30'30,001"S	46°07'27,250"W	232,55	

4 Tabela de Coordenadas

Nº	COORDENADA N	COORDENADA E	ALTITUDE	DESCRIÇÃO
1	9172557.510003157	371009.920000165	273.370000000	BASE
2	9172683.433632437	370907.061684922	271.578217844	STA0+00.018 R0.003 CUT 271.578
3	9172678.739615968	370905.358848888	271.290238942	STA0+05.011 L0.004 CUT 271.290
4	9172659.952947075	370898.501591681	269.460695595	STA0+25.010 R0.007 CUT 269.461
5	9172641.165522233	370891.673548090	268.087443202	STA0+45.000 L0.009 CUT 268.087
6	9172622.389930368	370884.827518779	267.319542262	STA0+59.985 L0.004 CUT 267.320
7	9172603.598446980	370877.976165189	266.917017369	STA0+79.987 R0.001 CUT 266.917
8	9172584.808572412	370871.127900696	266.387047615	STA0+99.986 R0.003 CUT 266.387
9	9172566.009992937	370864.277893367	266.539664083	STA1+19.993 R0.004 CUT 266.540
10	9172547.221764093	370857.410385949	263.199200626	STA1+39.997 R0.024 CUT 263.199
11	9172528.410788229	370850.598918022	261.536693724	STA1+60.003 L0.015 CUT 261.537
12	9172509.630815553	370843.735266477	260.259488833	STA1+79.998 R0.005 CUT 260.259
13	9172490.834902456	370836.898054687	259.531864236	STA1+99.999 L0.006 CUT 259.532
14	9172472.046530819	370830.050399772	258.413632256	STA2+19.997 L0.004 CUT 258.414
15	9172453.252822138	370823.198641800	257.710497955	STA2+40.000 R0.000 CUT 257.710
16	9172434.464373943	370816.356633144	257.651742505	STA2+59.996 L0.003 CUT 257.652
17	9172415.664916143	370809.503664883	257.694130341	STA2+80.005 R0.000 CUT 257.694
18	9172396.884263035	370802.658383604	258.469757817	STA2+99.995 R0.003 CUT 258.470
19	9172378.086370919	370795.815139701	259.180555677	STA3+19.999 L0.003 CUT 259.181
20	9172359.294390928	370788.966753535	260.036943349	STA3+40.000 L0.001 CUT 260.037
21	9172340.509349233	370782.122250894	260.948892630	STA3+59.993 L0.001 CUT 260.949
22	9172321.708024310	370775.275707019	261.635358427	STA3+80.003 L0.004 CUT 261.635
23	9172302.917177137	370768.433615114	262.037773659	STA4+00.000 L0.008 CUT 262.038
24	9172284.131441651	370761.583901307	262.560836185	STA4+19.996 L0.003 CUT 262.561
25	9172265.340290884	370754.733207667	263.236219467	STA4+39.997 R0.001 CUT 263.236
26	9172246.544485439	370747.883482276	264.084215121	STA4+60.002 R0.002 CUT 264.084
27	9172227.755437596	370741.041153542	265.070714830	STA4+79.998 L0.001 CUT 265.071
28	9172231.186411280	370731.644814625	265.501547920	STA1+00.009 L0.002 CUT 265.502
29	9172249.978701176	370738.498956193	264.400545764	STA1+20.012 R0.005 CUT 264.401
30	9172268.757471366	370745.328801357	263.609340828	STA1+39.994 L0.007 CUT 263.609
31	9172287.546142850	370752.178659434	262.940489062	STA1+59.993 L0.003 CUT 262.940
32	9172306.335844869	370759.037449989	262.360421494	STA1+79.995 R0.009 CUT 262.360
33	9172325.132239573	370765.864292109	261.935956952	STA1+99.993 L0.011 CUT 261.936
34	9172343.917166116	370772.726861039	261.159362944	STA2+19.992 R0.006 CUT 261.159
35	9172362.711281572	370779.569499551	260.330150953	STA2+39.993 R0.002 CUT 260.330
36	9172381.506579701	370786.415840408	259.513414478	STA2+59.997 R0.000 CUT 259.513
37	9172400.291247295	370793.240949892	258.909806484	STA2+79.983 L0.018 CUT 258.910
38	9172419.066306869	370800.109786058	258.109664903	STA2+99.975 R0.009 CUT 258.110
39	9172437.874184175	370806.984150975	257.789909426	STA3+20.000 R0.029 CUT 257.790
40	9172456.659499055	370813.786058870	257.849560535	STA3+39.978 L0.010 CUT 257.850
41	9172475.468055969	370820.648158377	258.296841115	STA3+60.000 L0.002 CUT 258.297
42	9172494.281231061	370827.518336119	259.374791373	STA3+80.028 R0.013 CUT 259.375

43	9172513.078472702	370834.353394238	260.227570894	STA4+00.029 R0.000 CUT 260.228
44	9172531.878546571	370841.186546839	261.377139658	STA4+20.033 L0.015 CUT 261.377
45	9172550.641760904	370848.041663849	262.576044514	STA4+40.009 R0.002 CUT 262.576
46	9172569.431045240	370854.891541287	264.212094283	STA4+60.008 R0.006 CUT 264.212
47	9172588.193943245	370861.681438205	266.411425603	STA4+79.961 L0.037 CUT 266.411
48	9172607.004307985	370868.579865958	266.432741417	STA4+99.997 R0.005 CUT 266.433
49	9172625.810677465	370875.417405311	267.134306258	STA5+20.008 L0.009 CUT 267.134
50	9172644.574350458	370882.242187145	268.071559938	STA5+39.974 L0.020 CUT 268.072
51	9172663.379868968	370889.095111909	269.250525708	STA5+59.989 L0.019 CUT 269.251
52	9172682.154805213	370895.965857002	270.893048633	STA5+79.982 R0.010 CUT 270.893
53	9172686.894316187	370897.677559265	271.274759134	CUT 271.275
54	9172649.701716855	370380.138344636	277.844190078	BASE-M-2
55	9173558.289999999	367692.610000000	295.410000000	BASE-M-2
57	9172693.727549410	370878.851454651	270.777390674	CUT 270.777
58	9172689.022106132	370877.154421824	270.376867956	CUT 270.377
59	9172670.187864844	370870.279926391	268.751365612	STA0+00.055 R0.028 CUT 268.751
60	9172651.468482984	370863.483009219	267.696365299	STA0+19.970 R0.006 CUT 267.696
61	9172632.641469270	370856.632951075	266.623307103	STA0+40.005 L0.003 CUT 266.623
62	9172613.866964659	370849.781970166	265.772824702	STA0+59.990 R0.007 CUT 265.773
63	9172595.057108423	370842.928185263	264.970107632	STA0+80.010 R0.007 CUT 264.970
64	9172576.297511730	370836.084054441	263.726722513	STA0+99.979 R0.016 CUT 263.727
65	9172557.486865120	370829.247544984	262.317792302	STA1+19.993 L0.000 CUT 262.318
66	9172538.691187214	370822.398215085	261.175832922	STA1+39.998 R0.001 CUT 261.176
67	9172519.899695998	370815.559333562	260.178587917	STA1+59.995 L0.007 CUT 260.179
68	9172501.113184555	370808.704837105	259.258421409	STA1+79.993 R0.003 CUT 259.258
69	9172482.312127225	370801.856679521	258.190626551	STA2+00.003 R0.001 CUT 258.191
70	9172463.530907806	370795.015883446	257.815269919	STA2+19.991 L0.001 CUT 257.815
71	9172444.736599874	370788.162767991	257.805889186	STA2+39.996 R0.004 CUT 257.806
72	9172425.945082657	370781.313836180	258.446993424	STA2+59.997 R0.006 CUT 258.447
73	9172407.143813200	370774.481667292	259.336753877	STA2+80.001 L0.011 CUT 259.337
74	9172388.352651954	370767.630858648	260.192771670	STA3+00.002 L0.007 CUT 260.193
75	9172369.570704399	370760.779317797	260.834760084	STA3+19.994 R0.001 CUT 260.835
76	9172350.770799900	370753.928976042	261.641998932	STA3+40.003 R0.002 CUT 261.642
77	9172331.992686249	370747.088491412	262.427846740	STA3+59.989 R0.001 CUT 262.428
78	9172313.188198170	370740.231797968	263.024753962	STA3+80.004 R0.006 CUT 263.025
79	9172294.403035522	370733.399877993	263.707080838	STA3+99.993 L0.006 CUT 263.707
80	9172275.600204460	370726.541450795	264.317861280	STA4+20.008 R0.001 CUT 264.318
81	9172256.819210192	370719.699119602	265.222171717	STA4+39.996 R0.001 CUT 265.222
82	9172238.017837813	370712.851564361	266.788971727	STA4+60.006 L0.002 CUT 266.789
83	9172244.873097625	370694.052824484	268.369988535	STA0+00.000 L0.008 CUT 268.370
84	9172263.658894014	370700.902999526	266.435111283	STA0+19.996 L0.003 CUT 266.435
85	9172282.436321683	370707.749615291	265.056407681	STA0+39.982 R0.002 CUT 265.056
86	9172301.243405731	370714.590609515	264.394124191	STA0+59.995 L0.009 CUT 264.394
87	9172320.034864185	370721.440273826	264.044979394	STA0+79.996 L0.006 CUT 264.045
88	9172338.830468791	370728.299288075	262.988194132	STA1+00.004 R0.005 CUT 262.988

89	9172357.617283704	370735.146325724	262.161792230	STA1+19.999 R0.007 CUT 262.162
90	9172376.410106801	370741.982499991	261.371610496	STA1+39.997 L0.004 CUT 261.372
91	9172395.202234043	370748.828591822	260.582824818	STA1+59.997 L0.004 CUT 260.583
92	9172413.999692900	370755.683429523	259.765649538	STA1+80.006 R0.001 CUT 259.766
93	9172432.776325768	370762.522358563	258.877411843	STA1+99.989 L0.001 CUT 258.877
94	9172451.575893702	370769.381621620	258.205169603	STA2+20.001 R0.008 CUT 258.205
95	9172470.367922761	370776.216864130	257.976416134	STA2+39.997 L0.003 CUT 257.976
96	9172489.154347647	370783.053103135	258.322129032	STA2+59.989 L0.011 CUT 258.322
97	9172507.945393559	370789.914960081	259.302758012	STA2+79.994 R0.004 CUT 259.303
98	9172526.757219177	370796.760593704	260.281624499	STA3+00.012 L0.004 CUT 260.282
99	9172545.536098672	370803.605364371	261.145474574	STA3+20.000 L0.001 CUT 261.145
100	9172564.316476842	370810.453581965	262.276506966	STA3+39.990 R0.004 CUT 262.277
101	9172583.122385569	370817.293651891	263.481549900	STA3+60.001 L0.007 CUT 263.482
102	9172601.903031401	370824.146879418	264.550500961	STA3+79.993 R0.003 CUT 264.551
103	9172620.696516689	370830.991264985	265.492946428	STA3+99.994 R0.000 CUT 265.493
104	9172639.486948818	370837.837932710	266.335100189	STA4+19.993 R0.001 CUT 266.335
105	9172658.282919057	370844.677375842	267.254727726	STA4+39.995 L0.008 CUT 267.255
106	9172677.080729384	370851.526602973	268.304992437	STA4+60.001 L0.007 CUT 268.305
107	9172695.865413072	370858.375872197	270.520039374	STA4+79.996 L0.003 CUT 270.520
108	9172700.561123114	370860.095745923	270.374069778	CUT 270.374
109	9172707.403708883	370841.298351437	270.008228930	CUT 270.008
110	9172702.709858926	370839.595194817	269.514358426	CUT 269.514
111	9172683.922962759	370832.741062663	268.059289105	STA0+20.001 R0.000 CUT 268.059
112	9172665.136610089	370825.898079518	266.992445582	STA0+39.995 L0.001 CUT 266.992
113	9172646.347149089	370819.050756804	266.000838494	STA0+59.993 L0.000 CUT 266.001
114	9172627.553276397	370812.204885589	265.268482514	STA0+79.995 L0.002 CUT 265.268
115	9172608.756977834	370805.343082360	264.320531867	STA1+00.004 R0.011 CUT 264.321
116	9172589.976727476	370798.515563150	263.401357234	STA1+19.987 L0.003 CUT 263.401
117	9172571.172391297	370791.665811079	262.276972519	STA1+40.000 L0.004 CUT 262.277
118	9172552.387965547	370784.816743559	261.245835862	STA1+59.994 R0.000 CUT 261.246
119	9172533.590678096	370777.971928794	260.419374098	STA1+79.999 L0.003 CUT 260.419
120	9172514.795604603	370771.121055575	259.345883924	STA2+00.004 L0.001 CUT 259.346
121	9172496.007282961	370764.281092083	258.556104921	STA2+19.998 L0.006 CUT 258.556
122	9172477.212227030	370757.432870054	258.196909154	STA2+40.002 L0.005 CUT 258.197
123	9172458.426587429	370750.586395670	258.606457628	STA2+59.997 L0.004 CUT 258.606
124	9172439.635467378	370743.744029151	259.411794540	STA2+79.995 L0.007 CUT 259.412
125	9172420.844655309	370736.899865377	260.315876461	STA2+99.993 L0.009 CUT 260.316
126	9172402.043939672	370730.042210567	261.212763802	STA3+20.005 L0.002 CUT 261.213
127	9172383.255278455	370723.205659153	262.045124247	STA3+39.999 L0.011 CUT 262.045
128	9172364.469965642	370716.359602896	262.792750994	STA3+59.993 L0.009 CUT 262.793
129	9172345.674334731	370709.506523783	263.958941205	STA3+79.999 L0.004 CUT 263.959
130	9172326.879555009	370702.657527063	264.547680698	STA4+00.003 L0.003 CUT 264.548
131	9172308.091535486	370695.817287602	265.290495642	STA4+19.997 L0.008 CUT 265.290
132	9172289.307701035	370688.961029883	266.104317986	STA4+39.993 R0.004 CUT 266.104
133	9172270.515701283	370682.120365893	267.621286102	STA4+59.992 L0.002 CUT 267.621

134	9172251.722478019	370675.271952659	268.836008698	STA4+79.994 L0.001 CUT 268.836
135	9172232.931109751	370668.420078440	269.414866624	STA4+99.996 R0.004 CUT 269.415
136	9172195.346809685	370654.726256444	269.895808791	STA5+39.997 R0.004 CUT 269.896
137	9172176.556790683	370647.876470992	270.036843995	STA5+59.996 R0.008 CUT 270.037
138	9172157.767590264	370641.034595345	270.253430724	STA5+79.993 R0.004 CUT 270.253
139	9172150.894491712	370659.836091796	269.651111036	STA0+00.015 R0.014 CUT 269.651
140	9172144.092205016	370678.612739373	268.716032904	STA0+19.985 L0.023 CUT 268.716
141	9172137.250626532	370697.375810758	267.804029537	STA0+39.957 L0.017 CUT 267.804
142	9172155.973201120	370704.289078218	267.625646387	STA0+09.957 L0.025 CUT 190.481
143	9172159.479425600	370694.825070294	268.042797577	STA0+20.049 R0.029 CUT 190.898
144	9172166.313713692	370676.088811073	268.889329855	STA0+39.993 R0.035 CUT 114.599
145	9172169.736215210	370666.671957715	269.351963105	STA0+50.013 R0.027 CUT 76.489
146	9172164.609712072	370622.251091796	271.000824176	STA0+00.006 R0.005 CUT 271.001
147	9172183.393739410	370629.099435287	270.886734922	STA0+19.999 R0.009 CUT 270.887
148	9172202.189766236	370635.931221596	270.689944854	STA0+39.999 L0.006 CUT 270.690
149	9172220.977485515	370642.796082804	270.467655597	STA0+60.001 R0.012 CUT 270.468
150	9172239.772775073	370649.624468331	270.084847471	STA0+79.998 L0.006 CUT 270.085
151	9172258.555984221	370656.480327438	269.225471927	STA0+99.994 R0.006 CUT 269.225
152	9172648.138847247	370388.611159802	277.587252612	AUX
153	9172714.254545964	370822.507060980	269.715532374	CUT 269.716
154	9172709.570366075	370820.797538728	269.188411002	CUT 269.188
155	9172690.774230925	370813.949225411	267.808264725	STA-0+00.004 R0.002 CUT 267.808
156	9172671.976817271	370807.104309345	266.658086246	STA0+20.001 L0.002 CUT 266.658
157	9172653.184044812	370800.256836389	265.582658177	STA0+40.003 L0.001 CUT 265.583
158	9172634.402913947	370793.416167717	264.858989824	STA0+59.991 L0.003 CUT 264.859
159	9172615.608397320	370786.563227378	264.056336578	STA0+79.996 R0.002 CUT 264.056
160	9172596.816988168	370779.712931092	263.150735443	STA0+99.997 R0.005 CUT 263.151
161	9172578.030206630	370772.865255826	262.203446287	STA1+19.993 R0.008 CUT 262.203
162	9172559.223111723	370766.018064530	261.251497564	STA1+40.008 R0.003 CUT 261.251
163	9172540.449799337	370759.167173397	260.496763906	STA1+59.992 R0.013 CUT 260.497
164	9172521.639300346	370752.324879884	259.493887939	STA1+80.008 R0.003 CUT 259.494
165	9172502.844407952	370745.493188063	258.663732758	STA2+00.006 L0.012 CUT 258.664
166	9172484.067791810	370738.638438779	258.464394390	STA2+19.995 R0.000 CUT 258.464
167	9172465.272284262	370731.780921769	258.961067087	STA2+40.002 R0.009 CUT 258.961
168	9172446.480191572	370724.932204568	259.787183625	STA2+60.003 R0.011 CUT 259.787
169	9172427.687045781	370718.106892542	260.625286807	STA2+79.998 L0.010 CUT 260.625
170	9172408.901689271	370711.252346202	261.584927875	STA2+99.994 L0.000 CUT 261.585
171	9172390.112059334	370704.410896487	262.652800920	STA3+19.991 L0.004 CUT 262.653
172	9172371.308523964	370697.566567340	263.585339835	STA3+40.001 L0.011 CUT 263.585
173	9172352.526850745	370690.716541238	264.308471433	STA3+59.993 L0.004 CUT 264.308
174	9172333.736993836	370683.862137520	265.219179246	STA3+79.994 R0.004 CUT 265.219
175	9172314.932578418	370677.014046403	266.043301172	STA4+00.007 R0.001 CUT 266.043
176	9172296.149302313	370670.177965955	266.845083396	STA4+19.995 L0.006 CUT 266.845
177	9172277.359866120	370663.327110584	268.050036259	STA4+39.995 L0.001 CUT 268.050
178	9172171.461772177	370603.454427284	271.855867028	STA0+00.009 L0.001 CUT 271.856

179	9172190.253456924	370610.291415739	271.684423720	STA0+20.006 L0.010 CUT 271.684
180	9172209.026857290	370617.145733405	271.576571830	STA0+39.992 R0.003 CUT 271.577
181	9172227.820357729	370623.987462007	271.696126280	STA0+59.992 L0.002 CUT 271.696
182	9172246.623549502	370630.837736659	271.084974570	STA0+80.004 L0.003 CUT 271.085
183	9172265.421779390	370637.686375226	270.164454402	STA1+00.011 L0.003 CUT 270.164
184	9172284.204525860	370644.542364550	268.444559944	STA1+20.006 R0.009 CUT 268.445
185	9172302.999513706	370651.382053361	267.420455625	STA1+40.007 R0.001 CUT 267.420
186	9172321.785636492	370658.222938042	266.670830210	STA1+60.000 L0.003 CUT 266.671
187	9172340.590273235	370665.081549732	265.913170084	STA1+80.016 R0.004 CUT 265.913
188	9172359.373655509	370671.927747811	264.933638438	STA2+00.008 R0.007 CUT 264.934
189	9172378.159960698	370678.754351097	264.074892173	STA2+19.996 L0.011 CUT 264.075
190	9172396.953288302	370685.606239058	263.073459553	STA2+40.000 L0.006 CUT 263.073
191	9172415.749672230	370692.455358468	261.933058913	STA2+60.005 L0.005 CUT 261.933
192	9172434.531959938	370699.303309065	261.094983676	STA2+79.997 L0.001 CUT 261.095
193	9172453.328416791	370706.150690833	260.326782026	STA3+00.002 L0.002 CUT 260.327
194	9172472.126999987	370712.986586902	259.449950042	STA3+20.004 L0.015 CUT 259.450
195	9172490.914396053	370719.849513825	258.857419538	STA3+40.006 R0.002 CUT 258.857
196	9172509.708108146	370726.686849185	258.497433865	STA3+60.005 L0.007 CUT 258.497
197	9172528.494289609	370733.537722947	259.661314456	STA3+80.001 L0.001 CUT 259.661
198	9172547.280870818	370740.380563103	260.557972163	STA3+99.995 L0.003 CUT 260.558
199	9172566.070682809	370747.231865866	261.306630454	STA4+19.995 R0.002 CUT 261.307
200	9172584.875460384	370754.085218018	262.200126484	STA4+40.010 R0.003 CUT 262.200
201	9172603.662443087	370760.928440941	263.022524308	STA4+60.004 R0.002 CUT 263.023
202	9172622.450293465	370767.768846423	263.863844940	STA4+79.999 L0.003 CUT 263.864
203	9172641.245113818	370774.622667862	264.618429249	STA5+00.004 R0.003 CUT 264.618
204	9172660.026448498	370781.462288073	265.213238312	STA5+19.992 L0.000 CUT 265.213
205	9172678.825981105	370788.308819690	266.336732331	STA5+40.000 L0.003 CUT 266.337
206	9172697.614800740	370795.159942887	267.509383452	STA5+59.999 R0.002 CUT 267.509
207	9172716.408810394	370802.001728304	268.637450331	STA5+79.999 L0.003 CUT 268.637
208	9172721.106853131	370803.727267684	269.069102429	CUT 269.069
209	9172727.947254159	370784.925406471	268.370024674	CUT 268.370
210	9172723.261070810	370783.217951420	268.162566796	CUT 268.163
211	9172704.471489321	370776.374083353	267.623405829	STA-0+00.010 L0.004 CUT 267.623
212	9172685.674871590	370769.517155888	265.857178132	STA0+19.998 R0.004 CUT 265.857
213	9172666.879550047	370762.679732156	265.162368650	STA0+39.999 L0.006 CUT 265.162
214	9172648.089378825	370755.832674167	264.335919321	STA0+59.997 L0.005 CUT 264.336
215	9172629.301560532	370748.977449851	263.603577506	STA0+79.997 R0.004 CUT 263.604
216	9172610.505982360	370742.133366002	262.931389846	STA1+00.000 R0.000 CUT 262.931
217	9172591.708433865	370735.288231825	262.058744086	STA1+20.005 L0.003 CUT 262.059
218	9172572.928713962	370728.447886993	261.351453380	STA1+39.991 L0.005 CUT 261.351
219	9172554.129904062	370721.605421657	260.606925944	STA1+59.997 L0.011 CUT 260.607
220	9172535.344440185	370714.737191580	259.908801168	STA1+79.998 R0.011 CUT 259.909
221	9172516.546508491	370707.903596347	259.136477322	STA2+00.000 L0.003 CUT 259.136
222	9172497.759747071	370701.059618131	259.343430148	STA2+19.995 L0.004 CUT 259.343
223	9172478.958203228	370694.202424568	259.826042321	STA2+40.007 R0.002 CUT 259.826

224	9172460.185441125	370687.361603641	260.639745392	STA2+59.988 R0.003 CUT 260.640
225	9172441.376595350	370680.519964187	261.445319276	STA2+80.002 L0.007 CUT 261.445
226	9172422.592245700	370673.666788316	262.487033792	STA2+99.998 R0.001 CUT 262.487
227	9172403.798541812	370666.821828885	263.426604449	STA3+19.999 L0.001 CUT 263.427
228	9172385.016894033	370659.977665448	264.594271069	STA3+39.989 R0.000 CUT 264.594
229	9172366.218799952	370653.128188627	265.584130706	STA3+59.996 R0.000 CUT 265.584
230	9172347.414444190	370646.280334969	266.446831713	STA3+80.009 L0.003 CUT 266.447
231	9172328.634243418	370639.445397278	267.443959046	STA3+99.994 L0.010 CUT 267.444
232	9172309.847564200	370632.594088697	268.165879353	STA4+19.991 L0.004 CUT 268.166
233	9172291.051173221	370625.745011794	269.263125039	STA4+39.996 L0.003 CUT 269.263
234	9172272.247590479	370618.891824162	270.999026152	STA4+60.010 L0.001 CUT 270.999
235	9172253.467189394	370612.051106891	272.237344329	STA4+79.997 L0.003 CUT 272.237
236	9172234.667806288	370605.206867619	272.923982467	STA5+00.004 L0.008 CUT 272.924
237	9172215.879332369	370598.352920751	272.922849440	STA5+20.003 R0.000 CUT 272.923
238	9172197.101347497	370591.512385996	272.562809185	STA5+39.988 L0.001 CUT 272.563
239	9172178.300827388	370584.660964768	272.605106402	STA5+59.998 R0.001 CUT 272.605
240	9172185.140375033	370565.875052331	273.441727888	STA-0+00.003 R0.007 CUT 273.442
241	9172203.938285546	370572.716182068	273.470269623	STA0+20.001 L0.000 CUT 273.470
242	9172222.725909147	370579.567995107	273.859083609	STA0+39.999 R0.006 CUT 273.859
243	9172241.519283097	370586.401975911	273.660537977	STA0+59.996 L0.006 CUT 273.661
244	9172260.308565069	370593.255606191	273.070568002	STA0+79.997 R0.001 CUT 273.071
245	9172279.092907889	370600.089866107	271.681606515	STA0+99.986 L0.008 CUT 271.682
246	9172297.900110943	370606.948607258	270.263919343	STA1+20.004 L0.002 CUT 270.264
247	9172316.674829317	370613.792246828	269.156033290	STA1+39.987 R0.001 CUT 269.156
248	9172335.475985877	370620.640325150	268.157032056	STA1+59.997 L0.001 CUT 268.157
249	9172354.277517950	370627.481908253	267.264261568	STA1+80.005 L0.009 CUT 267.264
250	9172373.056094145	370634.328965829	266.603735341	STA1+99.993 L0.004 CUT 266.604
251	9172391.855112005	370641.189790100	266.026305892	STA2+20.004 R0.006 CUT 266.026
252	9172410.640951062	370648.028709847	264.435237797	STA2+39.996 R0.001 CUT 264.435
253	9172429.431410343	370654.880190413	263.065316454	STA2+59.997 R0.006 CUT 263.065
254	9172448.226348866	370661.720907947	261.763240200	STA2+79.998 L0.001 CUT 261.763
255	9172467.024195351	370668.568440771	260.993358417	STA3+00.004 L0.002 CUT 260.993
256	9172485.828449292	370675.400067464	260.230593409	STA3+20.011 L0.020 CUT 260.231
257	9172504.597336259	370682.255417641	259.712160256	STA3+39.993 L0.005 CUT 259.712
258	9172523.398718741	370689.108844672	259.531550189	STA3+60.004 L0.002 CUT 259.532
259	9172542.177073816	370695.952608646	260.175042715	STA3+79.991 R0.000 CUT 260.175
260	9172560.977161337	370702.803355863	260.724722677	STA4+00.000 R0.001 CUT 260.725
261	9172579.768362958	370709.658879997	261.377545620	STA4+20.003 R0.010 CUT 261.378
262	9172598.555712890	370716.504507685	262.062434020	STA4+39.999 R0.010 CUT 262.062
263	9172617.340070996	370723.320440098	262.723660766	STA4+59.981 L0.016 CUT 262.724
264	9172636.148350788	370730.179715119	263.424675605	STA4+80.001 L0.010 CUT 263.425
265	9172654.932601573	370737.049457706	264.178692571	STA5+00.002 R0.014 CUT 264.179
266	9172673.725455746	370743.883200311	264.804149302	STA5+19.999 R0.002 CUT 264.804
267	9172692.517102569	370750.732951291	265.466542113	STA5+40.000 R0.005 CUT 265.467
268	9172711.308839856	370757.566369736	266.217385171	STA5+59.996 L0.008 CUT 266.217

269	9172730.101805093	370764.424162692	267.329135643	STA5+80.001 R0.002 CUT 267.329
270	9172734.794405302	370766.133365990	267.637979209	CUT 267.638
271	9172741.645856150	370747.343829377	267.070380404	CUT 267.070
272	9172736.956603713	370745.626999662	266.879922790	CUT 266.880
273	9172718.161457479	370738.769740211	265.995409892	STA0+00.000 R0.015 CUT 265.995
274	9172699.370726788	370731.939787621	265.110761625	STA0+19.994 L0.001 CUT 265.111
275	9172680.578670248	370725.097440278	264.768125396	STA0+39.993 L0.005 CUT 264.768
276	9172661.791413954	370718.250775643	264.035016410	STA0+59.989 L0.003 CUT 264.035
277	9172642.986927239	370711.398536170	263.299179376	STA0+80.003 L0.003 CUT 263.299
278	9172624.203259362	370704.560666855	262.806244515	STA0+99.992 L0.008 CUT 262.806
279	9172605.409431435	370697.707492234	262.307021445	STA1+19.997 L0.003 CUT 262.307
280	9172586.625496263	370690.844522545	261.816764795	STA1+39.995 R0.015 CUT 261.817
281	9172567.821487488	370684.019461464	261.007376652	STA1+59.999 L0.009 CUT 261.007
282	9172549.035311909	370677.174502960	260.364056832	STA1+79.994 L0.009 CUT 260.364
283	9172530.245102590	370670.313399254	260.105474928	STA1+99.997 R0.005 CUT 260.105
284	9172511.447744370	370663.472368691	260.034417578	STA2+20.001 L0.002 CUT 260.034
285	9172492.660954202	370656.613837739	260.570202876	STA2+40.000 R0.011 CUT 260.570
286	9172473.873430064	370649.782716034	261.286158693	STA2+59.991 L0.003 CUT 261.286
287	9172455.071255844	370642.934175533	262.237947379	STA2+80.002 L0.004 CUT 262.238
288	9172436.281414647	370636.083284251	263.432921555	STA3+00.002 R0.000 CUT 263.433
289	9172417.495156122	370629.240689893	265.064125229	STA3+19.995 L0.002 CUT 265.064
290	9172398.709868725	370622.401006669	267.139007182	STA3+39.987 L0.006 CUT 267.139
291	9172379.908027267	370615.552613497	268.615635895	STA3+59.997 L0.008 CUT 268.616
292	9172361.122265238	370608.704970394	269.166732430	STA3+79.992 L0.005 CUT 269.167
293	9172342.329326140	370601.847279462	269.129361347	STA3+99.997 R0.005 CUT 269.129
294	9172323.543225048	370594.999424316	269.902668729	STA4+19.992 R0.008 CUT 269.903
295	9172304.739706323	370588.160801947	270.813589232	STA4+40.001 L0.004 CUT 270.814
296	9172285.953701697	370581.316417806	272.148777181	STA4+59.995 L0.004 CUT 272.149
297	9172267.155448979	370574.454476330	273.458969743	STA4+80.006 R0.008 CUT 273.459
298	9172248.363398090	370567.622627716	274.246878392	STA5+00.002 L0.006 CUT 274.247
299	9172229.580311161	370560.767732247	274.550393071	STA5+19.997 R0.005 CUT 274.550
300	9172210.788251275	370553.927958188	274.269574703	STA5+39.995 L0.002 CUT 274.270
301	9172191.990466364	370547.080226646	274.195405161	STA5+60.001 L0.003 CUT 274.195
302	9172198.834329510	370528.292240661	274.898999932	STA-0+00.002 R0.007 CUT 274.899
303	9172217.637667304	370535.134050065	274.834310489	STA0+20.007 L0.001 CUT 274.834
304	9172236.412178185	370541.986937233	275.042487163	STA0+39.993 R0.010 CUT 275.042
305	9172255.219404414	370548.820450775	274.611398718	STA0+60.003 L0.007 CUT 274.611
306	9172274.012439376	370555.673601686	273.991511044	STA0+80.007 L0.002 CUT 273.992
307	9172292.796270818	370562.518614514	272.876044471	STA0+99.999 L0.000 CUT 272.876
308	9172311.615787035	370569.357868484	271.536592067	STA0+00.023 L0.017 CUT 271.537
309	9172330.373390965	370576.218129145	270.831777978	STA0+19.996 R0.007 CUT 270.832
310	9172349.181475949	370583.054199216	270.397542048	STA0+40.007 L0.008 CUT 270.398
311	9172367.953352444	370589.899475813	270.288076348	STA0+59.988 L0.003 CUT 270.288
312	9172386.748096937	370596.760385027	268.919082567	STA0+79.996 R0.010 CUT 268.919
313	9172405.538519746	370603.599972315	266.776261890	STA0+99.993 R0.003 CUT 266.776

314	9172424.341910180	370610.455879696	265.221264765	STA1+20.007 R0.008 CUT 265.221
315	9172443.129393267	370617.284830018	264.137136001	STA1+39.997 L0.007 CUT 264.137
316	9172461.924902292	370624.138695148	262.974265905	STA1+60.003 L0.002 CUT 262.974
317	9172480.719880562	370630.976938526	261.626748196	STA1+80.004 L0.011 CUT 261.627
318	9172499.509550370	370637.826560909	260.953332459	STA2+00.003 L0.007 CUT 260.953
319	9172518.288953740	370644.667024893	260.351287516	STA2+19.989 L0.009 CUT 260.351
320	9172537.094959298	370651.523446737	260.560666891	STA2+40.006 L0.005 CUT 260.561
321	9172555.885422219	370658.370963846	260.957406617	STA2+60.005 L0.003 CUT 260.957
322	9172574.664176226	370665.216295181	261.484154649	STA2+79.993 L0.000 CUT 261.484
323	9172593.460165501	370672.065654059	262.062445560	STA2+99.998 R0.001 CUT 262.062
324	9172612.253850162	370678.912038367	262.795032260	STA3+20.000 L0.000 CUT 262.795
325	9172631.040357348	370685.761145346	263.355886378	STA3+39.996 R0.004 CUT 263.356
326	9172649.841583224	370692.600814146	263.764614906	STA3+60.003 L0.006 CUT 263.765
327	9172668.622755306	370699.458937598	264.251616953	STA3+79.997 R0.008 CUT 264.252
328	9172687.423638100	370706.307688623	264.786387185	STA4+00.006 R0.007 CUT 264.786
329	9172706.213943692	370713.150064717	264.999851636	STA4+20.004 R0.004 CUT 265.000
330	9172724.995465463	370719.985232007	265.898478178	STA4+39.990 L0.004 CUT 265.898
331	9172743.794475609	370726.829416019	266.644677330	STA4+59.996 L0.009 CUT 266.645
332	9172748.492777491	370728.546980054	266.829162301	CUT 266.829
333	9172755.334988615	370709.760539181	266.592333325	CUT 266.592
334	9172750.638294546	370708.053587640	266.372110047	CUT 266.372
335	9172731.858678492	370701.203253100	265.809603235	STA-0+00.009 R0.000 CUT 265.810
336	9172713.073081479	370694.358229052	265.161611447	STA0+19.985 R0.001 CUT 265.162
337	9172694.265783260	370687.507369040	265.017223328	STA0+40.001 L0.001 CUT 265.017
338	9172675.481454786	370680.668801727	264.602322109	STA0+59.991 L0.006 CUT 264.602
339	9172656.681044318	370673.807480364	264.287018887	STA0+80.005 R0.005 CUT 264.287
340	9172637.895881018	370666.974167379	263.929945760	STA0+99.994 L0.005 CUT 263.930
341	9172619.108076755	370660.117732137	263.352786127	STA1+19.994 R0.005 CUT 263.353
342	9172600.302528620	370653.267099400	262.912486353	STA1+40.008 R0.004 CUT 262.912
343	9172581.516458988	370646.432477778	262.010652764	STA1+59.999 L0.005 CUT 262.011
344	9172562.725809075	370639.587017266	261.696433827	STA1+79.998 L0.006 CUT 261.696
345	9172543.938843532	370632.726152483	261.137187049	STA1+99.998 R0.009 CUT 261.137
346	9172525.147275595	370625.891364982	260.389182658	STA2+19.994 L0.002 CUT 260.389
347	9172506.343638875	370619.041346711	261.272239522	STA2+40.007 L0.003 CUT 261.272
348	9172487.553379264	370612.190633568	262.150110373	STA2+60.007 R0.001 CUT 262.150
349	9172468.769256691	370605.340231770	263.416444432	STA2+80.001 R0.007 CUT 263.416
350	9172449.975780642	370598.500960808	264.457723273	STA3+00.000 L0.000 CUT 264.458
351	9172431.180799995	370591.656288742	265.627175395	STA3+20.003 L0.003 CUT 265.627
352	9172412.390169486	370584.805243786	266.772654154	STA3+40.004 R0.001 CUT 266.773
353	9172393.595187336	370577.960717100	268.201302515	STA3+60.006 L0.002 CUT 268.201
354	9172374.811296927	370571.108253997	269.452145164	STA3+80.001 R0.006 CUT 269.452
355	9172356.021265172	370564.260195215	270.409770622	STA4+00.000 R0.008 CUT 270.410
356	9172337.232363250	370557.419723818	271.402325577	STA4+19.995 R0.003 CUT 271.402
357	9172318.433210272	370550.572283598	272.331982717	STA4+40.003 R0.001 CUT 272.332
358	9172299.648657853	370543.725958131	273.825909300	STA4+59.996 R0.003 CUT 273.826

359	9172280.856705835	370536.880773378	274.647223659	STA4+79.996 R0.002 CUT 274.647
360	9172262.063404009	370530.036067023	275.095090431	STA4+99.997 L0.000 CUT 275.095
361	9172243.273691502	370523.176649563	275.262856318	STA5+19.999 R0.012 CUT 275.263
362	9172224.482387155	370516.332625746	275.249973760	STA5+39.998 R0.010 CUT 275.250
363	9172205.691196259	370509.496124343	275.260575470	STA5+59.994 R0.000 CUT 275.261
364	9172212.533123216	370490.693804644	275.442717360	STA-0+00.002 L0.009 CUT 275.443
365	9172231.325933168	370497.540772932	275.478449483	STA0+19.999 L0.009 CUT 275.478
366	9172250.111624388	370504.390207526	275.495554255	STA0+39.994 L0.004 CUT 275.496
367	9172268.899385518	370511.244108708	275.468059007	STA0+59.993 R0.004 CUT 275.468
368	9172287.696829181	370518.092608693	275.112888225	STA0+79.999 R0.003 CUT 275.113
369	9172306.484395446	370524.944709561	274.189557615	STA0+99.997 R0.010 CUT 274.190
370	9172325.274356743	370531.791034835	272.793319222	STA1+19.996 R0.010 CUT 272.793
371	9172344.073313076	370538.634090791	271.557251236	STA1+40.002 R0.004 CUT 271.557
372	9172362.864414275	370545.473542777	270.437296317	STA1+59.999 L0.002 CUT 270.437
373	9172381.653128393	370552.319193351	269.352977329	STA1+79.996 L0.002 CUT 269.353
374	9172400.455628071	370559.174038860	268.169965597	STA2+00.009 R0.002 CUT 268.170
375	9172419.238269361	370566.024187227	266.889973842	STA2+20.001 R0.008 CUT 266.890
376	9172438.040158426	370572.872028529	265.615277637	STA2+40.012 R0.006 CUT 265.615
377	9172456.831760628	370579.703151573	264.364221055	STA2+60.006 L0.009 CUT 264.364
378	9172475.617390333	370586.552940760	263.162897392	STA2+80.002 L0.004 CUT 263.163
379	9172494.403691666	370593.402865334	262.371242498	STA2+99.998 R0.001 CUT 262.371
380	9172513.189537067	370600.250206657	261.643702977	STA3+19.993 R0.004 CUT 261.644
381	9172531.987261526	370607.102573871	261.329002095	STA3+40.001 R0.007 CUT 261.329
382	9172550.783092631	370613.945855002	261.941108280	STA3+60.003 R0.002 CUT 261.941
383	9172569.562428519	370620.791922605	262.204083695	STA3+79.992 R0.006 CUT 262.204
384	9172588.363953933	370627.644023392	262.908127268	STA4+00.003 R0.008 CUT 262.908
385	9172607.153492788	370634.476364484	263.426986439	STA4+19.996 L0.005 CUT 263.427
386	9172625.948589956	370641.331438720	264.004709468	STA4+40.002 R0.002 CUT 264.005
387	9172644.734719332	370648.163089092	264.575230989	STA4+59.992 L0.010 CUT 264.575
388	9172663.528794173	370655.014583042	265.394861427	STA4+79.996 L0.007 CUT 265.395
389	9172682.328350205	370661.867622675	265.182318696	STA5+00.006 L0.003 CUT 265.182
390	9172701.109278515	370668.718218539	265.248910473	STA5+19.997 R0.004 CUT 265.249
391	9172719.898080364	370675.558857579	265.526600250	STA5+39.992 L0.001 CUT 265.527
392	9172738.691182086	370682.400758710	265.659519347	STA5+59.992 L0.006 CUT 265.660
393	9172757.495119136	370689.255987227	266.174897482	STA5+80.007 L0.002 CUT 266.175
394	9172762.187715644	370690.971454775	266.336163235	CUT 266.336
395	9172769.026601296	370672.178392835	266.313485177	CUT 266.313
396	9172764.328535058	370670.469497955	266.194753894	CUT 266.195
397	9172745.540717410	370663.625067467	266.033633118	STA0+00.000 L0.008 CUT 266.034
398	9172726.757230159	370656.772075846	266.055156615	STA0+19.994 R0.001 CUT 266.055
399	9172707.963822737	370649.926338179	265.980351601	STA0+39.996 L0.001 CUT 265.980
400	9172689.169835703	370643.084476292	265.930169968	STA0+59.996 L0.006 CUT 265.930
401	9172670.381235948	370636.232048117	265.746632561	STA0+79.995 R0.000 CUT 265.747
402	9172651.589809598	370629.391866185	265.415356067	STA0+99.993 L0.006 CUT 265.415
403	9172632.794732975	370622.540658512	265.078488671	STA1+19.998 L0.003 CUT 265.078

404	9172614.002146890	370615.687499361	264.112083577	STA1+40.001 R0.003 CUT 264.112
405	9172595.210300757	370608.844981961	263.584248625	STA1+60.000 L0.001 CUT 263.584
406	9172576.425339904	370602.003481288	263.102646982	STA1+79.992 L0.003 CUT 263.103
407	9172557.632251460	370595.157437485	262.434113445	STA1+99.993 L0.004 CUT 262.434
408	9172538.837335967	370588.308706152	262.154059506	STA2+19.997 L0.004 CUT 262.154
409	9172520.045308679	370581.461405590	261.786340540	STA2+39.998 L0.003 CUT 261.786
410	9172501.253313659	370574.618885848	262.554304818	STA2+59.997 L0.007 CUT 262.554
411	9172482.460695695	370567.774656788	263.403719396	STA2+79.997 L0.010 CUT 263.404
412	9172463.664326597	370560.926854898	264.509989505	STA3+00.002 L0.010 CUT 264.510
413	9172444.888367456	370554.079697626	265.657379749	STA3+19.987 L0.005 CUT 265.657
414	9172426.091703860	370547.227850632	266.925194711	STA3+39.994 L0.001 CUT 266.925
415	9172407.295123380	370540.383206986	268.217666417	STA3+59.998 L0.005 CUT 268.218
416	9172388.507086864	370533.537627204	269.350918486	STA3+79.994 L0.005 CUT 269.351
417	9172369.718130840	370526.684509192	270.461299840	STA3+99.994 R0.002 CUT 270.461
418	9172350.929008953	370519.840383203	272.262317765	STA4+19.991 R0.001 CUT 272.262
419	9172332.140416760	370513.011889444	273.989470350	STA4+39.982 L0.015 CUT 273.989
420	9172313.337542167	370506.145404494	274.839493845	STA4+59.999 L0.001 CUT 274.839
421	9172294.545530763	370499.288022591	275.368009083	STA4+80.003 R0.009 CUT 275.368
422	9172275.759323612	370492.451277958	275.528824205	STA4+99.995 R0.002 CUT 275.529
423	9172256.954984468	370485.610430286	275.438265823	STA5+20.005 L0.008 CUT 275.438
424	9172238.170149107	370478.765599477	275.503650760	STA5+39.998 L0.007 CUT 275.504
425	9172219.386847964	370471.912500251	275.514271113	STA5+59.992 R0.002 CUT 275.514
426	9172226.231799334	370453.119076639	275.593299618	STA0+00.006 L0.003 CUT 275.593
427	9172245.015849393	370459.961733113	275.437690722	STA0+19.997 L0.004 CUT 275.438
428	9172263.816364043	370466.810735733	275.273910900	STA0+40.006 L0.005 CUT 275.274
429	9172282.584430648	370473.667530409	275.178238386	STA0+59.988 R0.013 CUT 275.178
430	9172301.390567176	370480.515212770	275.270910638	STA0+80.002 R0.009 CUT 275.271
431	9172320.172746506	370487.354027077	275.318030844	STA0+99.990 R0.005 CUT 275.318
432	9172338.975011019	370494.209929339	274.510459079	STA1+20.003 R0.010 CUT 274.510
433	9172357.768732719	370501.046085655	273.091195686	STA1+40.002 L0.001 CUT 273.091
434	9172376.551447006	370507.895599514	271.006937244	STA1+59.995 R0.005 CUT 271.007
435	9172395.344808908	370514.734218585	269.432291363	STA1+79.993 L0.003 CUT 269.432
436	9172414.137932597	370521.593760557	268.177097967	STA1+99.999 R0.008 CUT 268.177
437	9172432.932880363	370528.425866107	266.866287820	STA2+19.998 L0.007 CUT 266.866
438	9172451.721342260	370535.278336958	265.741812789	STA2+39.997 R0.000 CUT 265.742
439	9172470.510354990	370542.122290381	264.571701796	STA2+59.993 L0.002 CUT 264.572
440	9172489.305176828	370548.974279184	263.499312651	STA2+79.998 R0.002 CUT 263.499
441	9172508.099385604	370555.818745573	262.730727728	STA3+00.000 L0.001 CUT 262.731
442	9172526.887345877	370562.671741898	262.584197165	STA3+19.999 R0.007 CUT 262.584
443	9172545.685544705	370569.513665548	262.722306918	STA3+40.003 L0.000 CUT 262.722
444	9172564.473235449	370576.366244827	263.488991255	STA3+60.002 R0.007 CUT 263.489
445	9172583.270771720	370583.203313171	263.928759997	STA3+80.004 L0.004 CUT 263.929
446	9172602.055153366	370590.055159153	264.298524559	STA3+99.999 R0.003 CUT 264.299
447	9172620.850607341	370596.900537665	265.131830372	STA4+20.002 R0.001 CUT 265.132
448	9172639.641890161	370603.749196177	265.660985088	STA4+40.003 R0.003 CUT 265.661

449	9172658.438152693	370610.603883973	266.249911345	STA4+60.010 R0.009 CUT 266.250
450	9172677.220496316	370617.444904458	266.614151772	STA4+79.999 R0.006 CUT 266.614
451	9172696.020309959	370624.292783568	266.837624097	STA5+00.007 R0.005 CUT 266.838
452	9172714.809253335	370631.127033570	266.933205232	STA5+20.001 L0.006 CUT 266.933
453	9172733.595969411	370637.979345415	266.724396278	STA5+39.998 R0.001 CUT 266.724
454	9172752.392358450	370644.823808802	266.527379720	STA5+60.002 L0.003 CUT 266.527
455	9172771.189283438	370651.667699088	266.517077800	STA5+80.006 L0.007 CUT 266.517
456	9172775.873536674	370653.396074379	266.573886917	CUT 266.574
457	9172782.721883001	370634.590672422	266.871381252	CUT 266.871
458	9172778.023952650	370632.882242157	266.913702988	CUT 266.914
459	9172759.235670740	370626.025600069	267.035825275	STA0+00.004 R0.008 CUT 267.036
460	9172740.452704454	370619.191817774	267.411074333	STA0+19.991 L0.001 CUT 267.411
461	9172721.651481342	370612.345718578	267.837215236	STA0+40.000 L0.005 CUT 267.837
462	9172702.863054780	370605.494031333	267.908103606	STA0+59.999 R0.001 CUT 267.908
463	9172684.067692591	370598.650293813	267.899732746	STA0+80.001 L0.003 CUT 267.900
464	9172665.280625314	370591.796295184	267.871432962	STA1+00.000 R0.005 CUT 267.871
465	9172646.483022846	370584.956481376	269.345139651	STA1+20.003 L0.003 CUT 269.345
466	9172627.702464614	370578.106843207	266.502829527	STA1+39.994 R0.003 CUT 266.503
467	9172608.899666188	370571.265963233	265.234068760	STA1+60.002 L0.006 CUT 265.234
468	9172590.108371003	370564.416658065	265.232383995	STA1+80.003 L0.003 CUT 265.232
469	9172571.319974599	370557.572659203	264.300324945	STA1+99.999 L0.005 CUT 264.300
470	9172552.525346972	370550.719185933	263.754821396	STA2+20.004 R0.001 CUT 263.755
471	9172533.735341936	370543.866763219	263.038321118	STA2+40.005 R0.006 CUT 263.038
472	9172514.926361652	370537.037847132	262.974233499	STA2+60.015 L0.016 CUT 262.974
473	9172496.140923562	370530.179937120	263.534264114	STA2+80.013 L0.003 CUT 263.534
474	9172477.362952530	370523.325745560	264.571369306	STA3+00.003 R0.008 CUT 264.571
475	9172458.565038808	370516.508110420	265.768952885	STA3+19.999 L0.021 CUT 265.769
476	9172439.780007107	370509.664821503	266.901981552	STA3+39.992 L0.022 CUT 266.902
477	9172420.985312916	370502.795459998	268.614064202	STA3+60.002 L0.002 CUT 268.614
478	9172402.208635660	370495.968789159	269.621642618	STA3+79.981 L0.015 CUT 269.622
479	9172383.414763361	370489.118040452	271.310021172	STA3+99.985 L0.012 CUT 271.310
480	9172364.623521918	370482.273714140	272.302332543	STA4+19.984 L0.014 CUT 272.302
481	9172345.817671711	370475.420651420	273.566741000	STA4+39.999 L0.013 CUT 273.567
482	9172327.022574699	370468.568066777	274.806062244	STA4+60.005 L0.009 CUT 274.806
483	9172308.222816041	370461.733110538	274.904069438	STA4+80.008 L0.023 CUT 274.904
484	9172289.435272327	370454.875914294	274.764661289	STA5+00.008 L0.011 CUT 274.765
485	9172270.655059757	370448.039238157	274.976426771	STA5+19.994 L0.017 CUT 274.976
486	9172251.863554368	370441.193897617	275.309818162	STA5+39.994 L0.018 CUT 275.310
487	9172238.332092892	370436.242459757	275.539290733	STA5+54.403 R0.002 CUT 275.539
488	9172789.567609314	370615.799095837	267.473976764	CUT 267.474
489	9172784.872051099	370614.088347280	267.538645047	CUT 267.539
490	9172766.086411681	370607.239089738	268.589630032	STA-0+00.002 R0.004 CUT 268.590
491	9172747.302831365	370600.388328827	268.639227782	STA0+19.992 R0.011 CUT 268.639
492	9172728.499597751	370593.557344768	268.881999027	STA0+39.998 L0.008 CUT 268.882
493	9172709.718815213	370586.689542541	269.111587811	STA0+59.995 R0.016 CUT 269.112

494	9172690.917121843	370579.861405667	269.291777918	STA0+79.998 L0.005 CUT 269.292
495	9172672.135200219	370573.011171903	269.606509064	STA0+99.990 R0.002 CUT 269.607
496	9172653.331927324	370566.160718368	271.101888686	STA1+20.002 R0.001 CUT 271.102
497	9172634.546562601	370559.311756890	268.171936900	STA1+39.997 R0.006 CUT 268.172
498	9172615.747984378	370552.472089283	266.554547443	STA1+60.001 L0.003 CUT 266.555
499	9172596.964669442	370545.620895504	265.768113109	STA1+79.995 R0.004 CUT 265.768
500	9172578.168018512	370538.776681161	265.043396455	STA1+99.999 L0.000 CUT 265.043
501	9172559.370823879	370531.927200286	264.816035061	STA2+20.005 R0.001 CUT 264.816
502	9172540.591497295	370525.090719696	263.805198655	STA2+39.990 L0.005 CUT 263.805
503	9172521.785279349	370518.233543847	263.441539513	STA2+60.008 R0.000 CUT 263.442
504	9172502.999142557	370511.388511418	263.772079840	STA2+80.002 R0.000 CUT 263.772
505	9172484.210493082	370504.540778290	264.666533881	STA3+00.000 R0.002 CUT 264.667
506	9172465.424134919	370497.700152341	265.670316141	STA3+19.993 L0.001 CUT 265.670
507	9172446.621864295	370490.854926701	266.880784969	STA3+40.002 L0.006 CUT 266.881
508	9172427.833369564	370484.000157944	268.228968543	STA3+60.002 R0.002 CUT 268.229
509	9172409.042930745	370477.159301661	269.403936552	STA3+79.999 L0.003 CUT 269.404
510	9172390.246777609	370470.303469339	270.581213632	STA4+00.007 R0.004 CUT 270.581
511	9172371.454723058	370463.467400965	271.474796433	STA4+20.003 L0.006 CUT 271.475
512	9172352.677381318	370456.617439165	272.344481810	STA4+39.991 R0.002 CUT 272.344
513	9172333.884122036	370449.766104776	273.573943872	STA4+59.994 R0.006 CUT 273.574
514	9172315.080725223	370442.923864395	274.007327972	STA4+80.004 L0.002 CUT 274.007
515	9172296.295889104	370436.084105379	274.302949650	STA4+99.995 L0.006 CUT 274.303
516	9172277.504534844	370429.226202336	274.859172560	STA5+19.999 R0.004 CUT 274.859
517	9172258.705629084	370422.384894214	275.391350140	STA5+40.004 L0.003 CUT 275.391
518	9172239.915242026	370415.537506884	275.942069210	STA5+60.003 L0.002 CUT 275.942
519	9172246.761882091	370396.750529908	276.530270630	STA-0+00.001 R0.006 CUT 276.530
520	9172265.556365116	370403.589674111	276.393283303	STA0+19.999 L0.002 CUT 276.393
521	9172284.347514382	370410.437726917	274.978688190	STA0+39.999 L0.000 CUT 274.979
522	9172303.137947274	370417.284452016	274.307924128	STA0+59.998 R0.000 CUT 274.308
523	9172321.924190426	370424.129564035	273.663248011	STA0+79.992 R0.001 CUT 273.663
524	9172340.726588942	370430.974213231	272.999438887	STA1+00.002 L0.005 CUT 272.999
525	9172359.515880216	370437.822960574	272.199052536	STA1+20.000 L0.002 CUT 272.199
526	9172378.301080538	370444.669781091	271.246494334	STA1+39.994 R0.000 CUT 271.246
527	9172397.091531625	370451.519381162	270.246079511	STA1+59.994 R0.003 CUT 270.246
528	9172415.894282091	370458.365874706	269.224239734	STA1+80.005 L0.001 CUT 269.224
529	9172434.687294181	370465.206782916	268.052143308	STA2+00.004 L0.006 CUT 268.052
530	9172453.468541334	370472.055526142	266.846444200	STA2+19.995 L0.001 CUT 266.846
531	9172472.264903672	370478.900269595	265.725873853	STA2+39.999 L0.004 CUT 265.726
532	9172491.056932023	370485.752230741	264.726063463	STA2+60.001 R0.000 CUT 264.726
533	9172509.843533406	370492.596959640	263.878840328	STA2+79.996 R0.000 CUT 263.879
534	9172528.634357868	370499.442533122	264.014187538	STA2+99.995 L0.000 CUT 264.014
535	9172547.433974585	370506.296677865	264.951921005	STA3+20.005 R0.004 CUT 264.952
536	9172566.224465782	370513.136447708	265.388150106	STA3+40.002 L0.002 CUT 265.388
537	9172585.013431191	370519.980500123	265.980673909	STA3+59.998 L0.004 CUT 265.981
538	9172603.803087333	370526.838796944	266.696432740	STA3+80.000 R0.008 CUT 266.696

539	9172622.605450995	370533.676725256	267.643597211	STA4+00.008 L0.004 CUT 267.644
540	9172641.388137614	370540.523287013	269.283112555	STA4+19.999 L0.001 CUT 269.283
541	9172660.182406904	370547.362749285	271.314327788	STA4+39.999 L0.009 CUT 271.314
542	9172678.968869155	370554.224971215	271.129296786	STA4+60.000 R0.008 CUT 271.129
543	9172697.759116355	370561.062680444	270.584503675	STA4+79.995 L0.000 CUT 270.585
544	9172716.554490862	370567.907662607	270.174934923	STA4+99.998 L0.003 CUT 270.175
545	9172735.347855983	370574.750019724	270.081041071	STA5+19.999 L0.008 CUT 270.081
546	9172754.134549258	370581.609302029	272.155144823	STA5+39.998 R0.006 CUT 272.155
547	9172772.920404792	370588.442022295	269.958531690	STA5+59.988 L0.005 CUT 269.959
548	9172791.723466784	370595.305246018	268.330600360	STA5+80.005 R0.006 CUT 268.331
549	9172796.418676579	370597.010512101	268.200022495	CUT 268.200
550	9172803.255427554	370578.217998165	270.386339811	CUT 270.386
551	9172798.566643890	370576.513944807	270.239505864	CUT 270.240
552	9172779.770732116	370569.656380275	271.130710589	STA0+00.006 R0.001 CUT 271.131
553	9172760.988044331	370562.807710683	271.350676075	STA0+19.999 R0.006 CUT 271.351
554	9172742.199586822	370555.968179240	270.933508958	STA0+39.993 R0.000 CUT 270.934
555	9172723.402579881	370549.126036613	271.052509211	STA0+59.997 L0.006 CUT 271.053
556	9172704.613005988	370542.265599632	271.659269795	STA0+80.000 R0.008 CUT 271.659
557	9172685.815504916	370535.428147604	272.171860743	STA1+00.002 L0.003 CUT 272.172
558	9172667.026388586	370528.579235613	272.346232816	STA1+20.001 R0.000 CUT 272.346
559	9172648.235800270	370521.737512508	270.486579194	STA1+39.998 L0.004 CUT 270.487
560	9172629.448146122	370514.882487524	268.855648085	STA1+59.997 R0.005 CUT 268.856
561	9172610.652137015	370508.046234378	267.490567218	STA1+79.998 L0.006 CUT 267.491
562	9172591.863109000	370501.188477192	266.774170119	STA1+99.999 R0.005 CUT 266.774
563	9172573.079846626	370494.347452316	266.114932787	STA2+19.989 R0.003 CUT 266.115
564	9172554.283934772	370487.495429154	265.386278838	STA2+39.995 R0.006 CUT 265.386
565	9172535.480145652	370480.655711645	264.405296271	STA2+60.004 L0.004 CUT 264.405
566	9172516.696763281	370473.806932948	264.558370320	STA2+79.997 R0.000 CUT 264.558
567	9172497.901429955	370466.958319235	264.706804368	STA3+00.002 R0.001 CUT 264.707
568	9172479.115960859	370460.122575923	265.702072612	STA3+19.992 L0.007 CUT 265.702
569	9172460.321090581	370453.272908333	266.739213669	STA3+39.996 L0.005 CUT 266.739
570	9172441.535743386	370446.434294502	267.817985740	STA3+59.988 L0.011 CUT 267.818
571	9172422.744305307	370439.567331045	268.982100998	STA3+79.994 R0.008 CUT 268.982
572	9172403.949484376	370432.742552672	270.337490606	STA3+99.990 L0.013 CUT 270.337
573	9172385.150278928	370425.879275895	271.467248745	STA4+20.003 L0.000 CUT 271.467
574	9172366.367893882	370419.044263892	272.231318117	STA4+39.990 L0.008 CUT 272.231
575	9172347.568219664	370412.193008817	273.118405586	STA4+59.999 L0.007 CUT 273.118
576	9172328.771515146	370405.330030012	273.969533087	STA4+80.010 R0.007 CUT 273.970
577	9172309.987611264	370398.488351835	274.817989676	STA5+00.001 R0.005 CUT 274.818
578	9172291.198395314	370391.651140408	275.822431943	STA5+19.996 L0.003 CUT 275.822
579	9172272.400463095	370384.801500868	277.128365042	STA5+40.003 L0.002 CUT 277.128
580	9172253.611358522	370377.948391847	277.150982161	STA5+60.002 R0.005 CUT 277.151
581	9172260.461225445	370359.167878012	277.554641390	STA0+00.004 R0.005 CUT 277.555
582	9172279.246781718	370366.018144892	277.201801532	STA0+20.000 R0.010 CUT 277.202
583	9172298.042812917	370372.847932823	276.278250611	STA0+39.998 L0.007 CUT 276.278

584	9172316.834220536	370379.704314072	275.490100110	STA0+60.002 R0.002 CUT 275.490
585	9172335.625093518	370386.554387212	274.594109990	STA0+80.002 R0.006 CUT 274.594
586	9172354.413156392	370393.397809211	273.675750377	STA0+99.998 R0.004 CUT 273.676
587	9172373.212149780	370400.235261964	272.700290481	STA1+20.002 L0.007 CUT 272.700
588	9172391.998233298	370407.085020806	271.279486531	STA1+39.997 L0.003 CUT 271.279
589	9172410.789627161	370413.933131093	270.318138450	STA1+59.998 L0.001 CUT 270.318
590	9172429.588502353	370420.781758103	268.704981658	STA1+80.005 L0.002 CUT 268.705
591	9172448.372098628	370427.628310553	267.614732713	STA1+99.998 R0.001 CUT 267.615
592	9172467.166349448	370434.470329789	266.474137740	STA2+19.999 L0.004 CUT 266.474
593	9172485.956419146	370441.319291418	265.584659114	STA2+39.998 L0.002 CUT 265.585
594	9172504.748642277	370448.171864539	264.544668243	STA2+60.001 R0.004 CUT 264.545
595	9172523.518239461	370455.006816964	264.961028840	STA2+79.976 R0.000 CUT 264.961
596	9172542.344348643	370461.855799046	265.497989321	STA3+00.009 L0.009 CUT 265.498
597	9172561.117650159	370468.707774328	266.133230048	STA3+19.994 R0.002 CUT 266.133
598	9172579.910952848	370475.555793514	266.810149685	STA3+39.996 R0.003 CUT 266.810
599	9172598.703475684	370482.396612279	267.599421447	STA3+59.995 L0.003 CUT 267.599
600	9172617.507950943	370489.245183645	268.366518360	STA3+80.008 L0.006 CUT 268.367
601	9172636.284578160	370496.093837189	270.088454858	STA3+99.994 R0.001 CUT 270.088
602	9172655.079384251	370502.937712184	271.606518549	STA4+19.996 L0.003 CUT 271.607
603	9172673.870969269	370509.794898325	272.369978337	STA4+40.000 R0.007 CUT 272.370
604	9172692.658846309	370516.635408518	272.813489231	STA4+59.994 R0.003 CUT 272.813
605	9172711.459447116	370523.481627540	272.433981650	STA4+80.003 L0.001 CUT 272.434
606	9172730.247705316	370530.331947692	271.963281479	STA5+00.001 R0.004 CUT 271.963
607	9172749.038395047	370537.177193362	271.941257144	STA5+20.000 R0.003 CUT 271.941
608	9172767.826715196	370544.016986418	271.888495995	STA5+39.994 L0.002 CUT 271.888
609	9172786.618858464	370550.867442694	271.318377141	STA5+59.996 R0.001 CUT 271.318
610	9172805.413041489	370557.718154490	271.088551978	STA5+80.000 R0.004 CUT 271.089
611	9172810.113244807	370559.429538027	271.033740643	CUT 271.034
612	9172816.958364364	370540.640352454	270.743776867	CUT 270.744
613	9172812.255158359	370538.919614919	271.009089017	CUT 271.009
614	9172793.471981114	370532.081275286	271.843272626	STA-0+00.004 L0.004 CUT 271.843
615	9172774.679890057	370525.239190296	272.640596111	STA0+19.995 L0.008 CUT 272.641
616	9172755.889118750	370518.375916144	273.162850893	STA0+40.000 R0.007 CUT 273.163
617	9172737.098061271	370511.535562399	273.252339610	STA0+59.997 R0.002 CUT 273.252
618	9172718.305650150	370504.689173758	273.521030281	STA0+79.998 R0.001 CUT 273.521
619	9172699.519992365	370497.845002742	273.432511617	STA0+99.992 R0.001 CUT 273.433
620	9172680.720873790	370490.989450717	273.005930008	STA1+20.002 R0.007 CUT 273.006
621	9172661.926084314	370484.142784173	272.443401340	STA1+40.005 R0.006 CUT 272.443
622	9172643.139198396	370477.297164035	271.378806926	STA1+60.000 R0.006 CUT 271.379
623	9172624.343951609	370470.454748606	269.956358089	STA1+80.002 R0.001 CUT 269.956
624	9172605.550610788	370463.616095301	268.794532471	STA2+00.001 L0.007 CUT 268.795
625	9172586.759486733	370456.767324511	267.554482429	STA2+20.001 L0.005 CUT 267.554
626	9172567.974389322	370449.912684503	266.859755239	STA2+39.998 R0.005 CUT 266.860
627	9172549.179129217	370443.067635123	266.361201147	STA2+60.001 R0.002 CUT 266.361
628	9172530.388572510	370436.221316843	265.824299736	STA2+80.000 R0.002 CUT 265.824

629	9172511.598276518	370429.380305815	265.376632803	STA2+99.996 L0.003 CUT 265.377
630	9172492.805534134	370422.530358858	265.605497707	STA3+19.999 R0.000 CUT 265.605
631	9172474.012050467	370415.690579028	266.422263676	STA3+39.998 L0.007 CUT 266.422
632	9172455.215617681	370408.838381380	267.383493711	STA3+60.005 L0.003 CUT 267.383
633	9172436.416748121	370401.991082821	268.631006582	STA3+80.012 L0.005 CUT 268.631
634	9172417.637903608	370395.139273196	269.760555822	STA4+00.001 R0.004 CUT 269.761
635	9172398.850204051	370388.289877361	272.258969087	STA4+19.999 R0.008 CUT 272.259
636	9172380.053755462	370381.447279605	274.376934450	STA4+40.002 R0.002 CUT 274.377
637	9172361.265980981	370374.606498313	275.733565503	STA4+59.996 L0.002 CUT 275.734
638	9172342.467489267	370367.758950582	276.033347295	STA4+80.003 L0.003 CUT 276.033
639	9172323.686168283	370360.906280022	276.686783294	STA4+99.996 R0.006 CUT 276.687
640	9172304.891723238	370354.069347421	277.003926040	STA5+19.995 L0.004 CUT 277.004
641	9172286.101573223	370347.219126490	277.450087432	STA5+39.995 L0.000 CUT 277.450
642	9172267.303488376	370340.378069652	277.774750903	STA5+59.999 L0.008 CUT 277.775
643	9172274.149869096	370321.587915178	277.037026462	STA0+00.001 R0.009 CUT 277.037
644	9172292.949898424	370328.430169319	277.647085350	STA0+20.008 R0.002 CUT 277.647
645	9172311.741855472	370335.270115124	276.364110986	STA0+40.006 L0.004 CUT 276.364
646	9172330.508961937	370342.119905672	276.974365288	STA0+59.984 R0.007 CUT 276.974
647	9172349.308455518	370348.968857230	277.095409837	STA0+79.992 R0.007 CUT 277.095
648	9172823.808772892	370521.844191073	271.051581487	CUT 271.052
649	9172819.112792136	370520.136026659	271.230765293	CUT 271.231
650	9172800.319053004	370513.285355505	272.030050171	STA-0+00.003 R0.000 CUT 272.030
651	9172781.534400426	370506.435523680	272.909419804	STA0+19.992 R0.006 CUT 272.909
652	9172762.738653794	370499.587372787	273.560991959	STA0+39.996 R0.006 CUT 273.561
653	9172743.949141651	370492.736959100	274.038286981	STA0+59.995 R0.010 CUT 274.038
654	9172725.147552427	370485.896889975	274.268987116	STA0+80.003 R0.000 CUT 274.269
655	9172706.363019424	370479.062489600	274.035650462	STA0+99.992 L0.009 CUT 274.036
656	9172687.571313547	370472.200281640	273.840237779	STA1+19.997 R0.006 CUT 273.840
657	9172668.771366550	370465.365671164	273.507355087	STA1+40.001 L0.008 CUT 273.507
658	9172649.968955489	370458.509519698	272.205988935	STA1+60.014 L0.003 CUT 272.206
659	9172631.187215537	370451.660267730	271.016330241	STA1+80.006 R0.003 CUT 271.016
660	9172612.400195006	370444.815307861	269.687139098	STA2+00.001 R0.003 CUT 269.687
661	9172593.612790473	370437.971837284	268.555452220	STA2+19.996 R0.001 CUT 268.555
662	9172574.823552996	370431.124576539	267.480026005	STA2+39.994 R0.003 CUT 267.480
663	9172556.026317895	370424.284769541	267.046510264	STA2+59.997 L0.006 CUT 267.047
664	9172537.232895535	370417.440838946	266.589210092	STA2+79.998 L0.009 CUT 266.589
665	9172518.448344166	370410.586730817	266.117739158	STA2+99.994 R0.000 CUT 266.118
666	9172499.651805943	370403.743285067	265.307665106	STA3+19.997 L0.004 CUT 265.308
667	9172480.860040501	370396.900142301	266.409505723	STA3+39.996 L0.008 CUT 266.410
668	9172462.064996915	370390.052577776	267.271687044	STA3+60.000 L0.008 CUT 267.272
669	9172443.278259417	370383.199760705	268.341917368	STA3+79.998 L0.001 CUT 268.342
670	9172424.487411292	370376.351529079	270.834391774	STA3+99.997 R0.001 CUT 270.834
671	9172405.686597701	370369.501965170	271.848560891	STA4+20.007 R0.001 CUT 271.849
672	9172386.903668480	370362.655961816	273.190987473	STA4+39.999 R0.003 CUT 273.191
673	9172368.111532273	370355.817512400	275.989036911	STA4+59.996 L0.005 CUT 275.989

674	9172281.001063099	370302.789609850	275.931083377	STA0+00.003 R0.001 CUT 275.931
675	9172299.781004584	370309.630075703	275.375499686	STA0+19.990 L0.000 CUT 275.375
676	9172318.583377156	370316.471808543	274.900040709	STA0+39.999 L0.009 CUT 274.900
677	9172337.371015886	370323.314892530	274.460564900	STA0+59.994 L0.011 CUT 274.461
678	9172356.168938642	370330.178690272	275.744103249	STA0+80.006 R0.003 CUT 275.744
679	9172374.958657272	370337.021314675	274.161540321	STA1+00.002 R0.000 CUT 274.162
680	9172393.752972743	370343.881426445	272.452976664	STA0+00.010 R0.012 CUT 272.453
681	9172412.546616614	370350.711015452	271.445380221	STA0+20.006 L0.005 CUT 271.445
682	9172431.327997634	370357.554524066	271.901153106	STA0+39.995 L0.004 CUT 271.901
683	9172450.116498523	370364.410974663	268.245745647	STA0+59.995 R0.006 CUT 268.246
684	9172468.918194301	370371.251296460	267.236607415	STA0+80.003 L0.003 CUT 267.237
685	9172487.710413385	370378.099196278	266.544802394	STA1+00.004 L0.002 CUT 266.545
686	9172506.499563607	370384.947149873	266.406889405	STA1+20.002 L0.000 CUT 266.407
687	9172525.280290848	370391.794729281	266.839388938	STA1+39.992 R0.004 CUT 266.839
688	9172544.074505268	370398.642574531	267.361044778	STA1+59.995 R0.004 CUT 267.361
689	9172562.856308175	370405.481126995	267.913299995	STA1+79.983 R0.000 CUT 267.913
690	9172581.663715286	370412.335561896	268.778075826	STA2+00.001 R0.002 CUT 268.778
691	9172600.451603230	370419.182530736	269.726111313	STA2+19.997 R0.004 CUT 269.726
692	9172619.239320751	370426.028820150	271.356719173	STA2+39.994 R0.005 CUT 271.357
693	9172638.037235554	370432.866976531	272.377334897	STA2+59.997 L0.005 CUT 272.377
694	9172656.843434062	370439.716009475	273.478695949	STA2+80.011 L0.008 CUT 273.479
695	9172675.624838591	370446.566790511	274.571734416	STA3+00.003 L0.001 CUT 274.572
696	9172694.416187225	370453.400973370	274.875109739	STA3+19.998 L0.012 CUT 274.875
697	9172713.205009764	370460.265111945	274.766494050	STA3+40.002 R0.005 CUT 274.766
698	9172731.995357754	370467.111146976	274.688980179	STA3+60.001 R0.005 CUT 274.689
699	9172750.781908296	370473.945085900	274.499423020	STA3+79.991 L0.005 CUT 274.499
700	9172769.571256753	370480.801390936	273.754296343	STA3+99.993 R0.004 CUT 273.754
701	9172788.371170366	370487.651341946	272.874004112	STA4+20.002 R0.005 CUT 272.874
702	9172807.163541231	370494.484696999	272.101073376	STA4+39.998 L0.008 CUT 272.101
703	9172825.954390932	370501.338759720	271.454952430	STA4+60.000 L0.001 CUT 271.455
704	9172830.656887651	370503.051293573	271.258847636	CUT 271.259
705	9172837.500506280	370484.272113190	271.465203226	CUT 271.465
706	9172832.775364632	370482.547293143	271.637726428	CUT 271.638
707	9172814.002273208	370475.698460393	272.304619214	STA0+00.008 R0.000 CUT 272.305
708	9172795.225045905	370468.856643705	273.142927526	STA0+19.993 R0.001 CUT 273.143
709	9172776.436119946	370462.013935706	273.923171722	STA0+39.989 L0.002 CUT 273.923
710	9172757.635479061	370455.169160639	274.617655754	STA0+59.997 L0.007 CUT 274.618
711	9172738.850586634	370448.321254593	274.989807933	STA0+79.991 L0.003 CUT 274.990
712	9172720.042973831	370441.471817431	275.356947311	STA1+00.007 L0.006 CUT 275.357
713	9172701.269622108	370434.623856231	275.572511511	STA1+19.990 R0.001 CUT 275.573
714	9172682.467036661	370427.775372215	275.689201419	STA1+40.001 L0.001 CUT 275.689
715	9172663.681306150	370420.922573726	274.542121184	STA1+59.998 R0.007 CUT 274.542
716	9172644.896149479	370414.087698012	275.303464373	STA1+79.988 L0.002 CUT 275.303
717	9172626.102302367	370407.226153549	275.175880509	STA1+99.995 R0.011 CUT 275.176
718	9172607.305031998	370400.400949447	271.501980372	STA-0+00.007 L0.011 CUT 271.502

719	9172588.513502987	370393.547640952	269.544222140	STA0+19.995 L0.004 CUT 269.544
720	9172569.726040620	370386.698592179	268.839422577	STA0+39.992 L0.001 CUT 268.839
721	9172550.936718296	370379.845964915	268.193281585	STA0+59.992 R0.006 CUT 268.193
722	9172532.137738181	370373.006516475	267.546915056	STA0+79.997 L0.004 CUT 267.547
723	9172513.349613018	370366.152752048	266.899577538	STA0+99.996 R0.004 CUT 266.900
724	9172494.552851485	370359.315637117	266.638298028	STA1+19.997 L0.007 CUT 266.638
725	9172475.760249471	370352.457793235	267.439878425	STA1+40.002 R0.004 CUT 267.440
726	9172456.972410914	370345.615440391	268.488670438	STA1+59.997 R0.001 CUT 268.489
727	9172438.180380613	370338.770031648	269.680445141	STA1+79.997 L0.000 CUT 269.680
728	9172419.392471328	370331.917511038	270.836433239	STA1+99.996 R0.006 CUT 270.836
729	9172400.595339108	370325.075815852	271.925514375	STA2+19.999 L0.000 CUT 271.926
730	9172381.808768636	370318.219370999	272.682146333	STA2+39.998 R0.011 CUT 272.682
731	9172363.012606036	370311.391079282	273.326696582	STA2+59.996 L0.008 CUT 273.327
732	9172344.224090412	370304.533085730	273.849483921	STA2+79.997 R0.004 CUT 273.849
733	9172325.428388838	370297.688223072	274.326390129	STA3+00.000 R0.001 CUT 274.326
734	9172306.643183654	370290.844152121	274.907393902	STA3+19.993 R0.000 CUT 274.907
735	9172287.847461361	370283.998123742	275.402875571	STA3+39.997 L0.002 CUT 275.403
736	9172294.691996392	370265.203283862	275.168344436	STA0+00.000 L0.001 CUT 275.168
737	9172313.480537318	370272.054232230	274.613735838	STA0+19.999 R0.004 CUT 274.614
738	9172332.274421534	370278.900030208	273.949641264	STA0+40.000 R0.003 CUT 273.950
739	9172351.049279872	370285.743920148	273.370944974	STA0+59.984 R0.006 CUT 273.371
740	9172369.851790180	370292.587518253	272.841337335	STA0+79.993 L0.001 CUT 272.841
741	9172388.640866661	370299.439629159	272.136024423	STA0+99.993 R0.005 CUT 272.136
742	9172407.436387403	370306.279256300	271.540910737	STA1+19.994 L0.003 CUT 271.541
743	9172426.243611522	370313.122981258	270.593687118	STA1+40.008 L0.011 CUT 270.594
744	9172445.024220746	370319.983157219	269.420649527	STA1+60.002 R0.006 CUT 269.421
745	9172463.819585171	370326.828193973	268.496098532	STA1+80.005 R0.003 CUT 268.496
746	9172482.617504964	370333.668877290	267.628532891	STA2+00.009 L0.005 CUT 267.629
747	9172501.403731965	370340.518893018	267.257607383	STA2+20.005 R0.000 CUT 267.258
748	9172520.185925789	370347.357186405	267.564412209	STA2+39.993 L0.004 CUT 267.564
749	9172538.974947650	370354.208625450	268.355316373	STA2+59.992 R0.001 CUT 268.355
750	9172557.773819508	370361.056602275	269.015045799	STA2+80.000 L0.000 CUT 269.015
751	9172576.568876982	370367.909982484	269.849227441	STA3+00.005 R0.005 CUT 269.849
752	9172595.359374372	370374.743328019	270.601680014	STA3+20.000 L0.007 CUT 270.602
753	9172614.139432583	370381.599644633	271.692347187	STA3+39.992 R0.006 CUT 271.692
754	9172632.932657221	370388.443523804	275.728467571	STA3+59.993 R0.003 CUT 275.728
755	9172651.728661854	370395.292817663	276.992602591	STA3+79.998 R0.004 CUT 276.993
756	9172670.512588361	370402.130979321	276.068587925	STA3+99.988 L0.002 CUT 276.069
757	9172689.317905879	370408.981130488	276.501536951	STA4+20.002 L0.003 CUT 276.502
758	9172708.107423641	370415.837319009	276.037270169	STA4+40.003 R0.007 CUT 276.037
759	9172726.903799510	370422.676800914	275.818889890	STA4+60.005 L0.002 CUT 275.819
760	9172745.690104744	370429.532287053	275.387371806	STA4+80.003 R0.008 CUT 275.387
761	9172764.481860004	370436.364917227	274.790241625	STA4+99.999 L0.005 CUT 274.790
762	9172783.271769371	370443.216495100	274.198930958	STA5+19.999 R0.000 CUT 274.199
763	9172802.070898201	370450.054477465	273.437805940	STA5+40.003 L0.010 CUT 273.438

764	9172820.847190643	370456.906731356	272.737988293	STA5+59.991 R0.000 CUT 272.738
765	9172839.647652814	370463.762249814	271.981834838	STA5+80.002 R0.005 CUT 271.982
766	9172844.351407997	370465.467011776	271.678629559	CUT 271.679
767	9172851.200386185	370446.675818431	272.432988541	CUT 272.433
768	9172846.496072423	370444.969026559	272.184354382	CUT 272.184
769	9172827.699846646	370438.124468306	273.022776350	STA0+00.001 L0.007 CUT 273.023
770	9172808.913225887	370431.275913266	273.786477079	STA0+19.997 L0.003 CUT 273.786
771	9172790.109840864	370424.427940119	274.486054821	STA0+40.008 L0.006 CUT 274.486
772	9172771.323438523	370417.585700242	275.246729628	STA0+60.002 L0.008 CUT 275.247
773	9172752.533504728	370410.725612032	275.803331647	STA0+80.005 R0.005 CUT 275.803
774	9172733.749278462	370403.879816397	276.233036559	STA0+99.998 R0.006 CUT 276.233
775	9172714.955697391	370397.036356386	276.766265044	STA1+19.998 R0.003 CUT 276.766
776	9172696.161211355	370390.199851710	277.201782623	STA1+39.998 L0.008 CUT 277.202
777	9172677.372364661	370383.350474271	277.472762112	STA1+59.996 L0.004 CUT 277.473
778	9172658.570143146	370376.510096285	277.773865655	STA1+80.004 L0.014 CUT 277.774
779	9172639.789919140	370369.664278582	276.160417703	STA1+99.993 L0.011 CUT 276.160
780	9172620.999487614	370362.807064315	272.150963914	STA2+19.995 L0.000 CUT 272.151
781	9172602.196047684	370355.959132588	271.401269254	STA2+40.007 L0.003 CUT 271.401
782	9172583.414590629	370349.104023044	270.653593232	STA2+60.000 R0.008 CUT 270.654
783	9172564.624712184	370342.264664397	269.811936692	STA2+79.996 R0.002 CUT 269.812
784	9172545.823206497	370335.416239944	269.000897879	STA3+00.006 R0.000 CUT 269.001
785	9172527.033284914	370328.577297510	268.326262228	STA3+20.002 L0.006 CUT 268.326
786	9172508.252139591	370321.730781317	267.683125130	STA3+39.992 L0.003 CUT 267.683
787	9172489.457658861	370314.880612714	267.984075157	STA3+59.996 L0.001 CUT 267.984
788	9172470.663215045	370308.024175591	268.238705124	STA3+80.002 R0.008 CUT 268.239
789	9172451.876013642	370301.191432444	269.523295903	STA3+99.993 L0.004 CUT 269.523
790	9172433.086782266	370294.339070082	270.482927541	STA4+19.993 R0.002 CUT 270.483
791	9172414.276370708	370287.489500197	271.410352200	STA4+40.012 L0.001 CUT 271.410
792	9172395.494559603	370280.652027921	271.761337205	STA4+59.999 L0.007 CUT 271.761
793	9172376.711703386	370273.798203231	272.326585467	STA4+79.994 R0.003 CUT 272.327
794	9172357.917232122	370266.953480753	273.089014003	STA4+99.996 R0.000 CUT 273.089
795	9172339.120933715	370260.105009595	273.836332139	STA5+20.001 R0.000 CUT 273.836
796	9172320.324733988	370253.260180051	274.465462265	STA5+40.005 L0.003 CUT 274.465
797	9172301.541907271	370246.407688890	275.150540203	STA5+59.998 R0.006 CUT 275.151
798	9172308.394428546	370227.620688642	275.294574091	STA0+00.009 L0.003 CUT 275.295
799	9172327.179061750	370234.468691957	274.549569964	STA0+20.003 R0.000 CUT 274.550
800	9172345.965041028	370241.309271405	273.849318685	STA0+39.995 L0.003 CUT 273.849
801	9172364.756975539	370248.163640295	273.054942208	STA0+59.998 R0.004 CUT 273.055
802	9172383.551893899	370255.008696590	272.391559259	STA0+80.001 R0.001 CUT 272.392
803	9172402.345196758	370261.850443215	271.609977379	STA1+00.001 L0.004 CUT 271.610
804	9172421.130867329	370268.700696030	271.288226579	STA1+19.997 R0.001 CUT 271.288
805	9172439.919372993	370275.541665595	270.211205598	STA1+39.992 L0.003 CUT 270.211
806	9172458.718826126	370282.393730346	269.418129130	STA1+60.001 L0.001 CUT 269.418
807	9172477.495054407	370289.215347453	268.642981847	STA1+79.978 L0.019 CUT 268.643
808	9172496.298894215	370296.089630704	268.201196873	STA1+99.999 R0.003 CUT 268.201

809	9172515.104445627	370302.928806519	268.461579451	STA2+20.010 L0.009 CUT 268.462
810	9172533.872577932	370309.800351475	268.830462501	STA2+39.996 R0.023 CUT 268.830
811	9172552.673765944	370316.618602471	269.643661925	STA2+59.995 L0.007 CUT 269.644
812	9172571.470998766	370323.479184709	270.465099162	STA2+80.005 R0.004 CUT 270.465
813	9172590.255633608	370330.311665246	271.396439440	STA2+99.994 L0.007 CUT 271.396
814	9172609.049193163	370337.165902073	272.108199531	STA3+19.999 L0.001 CUT 272.108
815	9172627.833557459	370344.013874247	272.884242789	STA3+39.992 R0.003 CUT 272.884
816	9172646.640139522	370350.859070986	275.186092190	STA3+60.006 L0.003 CUT 275.186
817	9172665.416624516	370357.710412905	277.543602708	STA3+79.993 R0.006 CUT 277.544
818	9172684.214905279	370364.551261370	277.560164559	STA3+99.998 L0.002 CUT 277.560
819	9172703.005968424	370371.386455141	277.643367781	STA4+19.993 L0.012 CUT 277.643
820	9172721.802261669	370378.245997809	277.138741260	STA4+40.002 L0.002 CUT 277.139
821	9172740.591539221	370385.102184834	276.517689396	STA4+60.003 R0.008 CUT 276.518
822	9172759.383345123	370391.949073245	276.003086870	STA4+80.003 R0.008 CUT 276.003
823	9172778.173578877	370398.781733966	275.581070903	STA4+99.997 L0.004 CUT 275.581
824	9172796.968507104	370405.627674605	275.106579432	STA5+20.000 L0.006 CUT 275.107
825	9172815.755253933	370412.488212974	274.292962682	STA5+40.000 R0.009 CUT 274.293
826	9172834.543173749	370419.330825014	273.308014141	STA5+59.996 R0.006 CUT 273.308
827	9172853.346618999	370426.177350030	272.507567316	STA5+80.007 R0.002 CUT 272.508
828	9172858.028691310	370427.876005886	272.367868008	CUT 272.368
829	9172864.882514495	370409.089595075	272.641556653	CUT 272.642
830	9172860.194766695	370407.381000298	272.836858058	CUT 272.837
831	9172841.390468264	370400.532101502	273.724050126	STA0+00.006 R0.001 CUT 273.724
832	9172822.609450707	370393.691206866	274.523261652	STA0+19.994 L0.001 CUT 274.523
833	9172803.808782322	370386.844039043	275.367254819	STA0+40.003 L0.003 CUT 275.367
834	9172785.029145332	370379.996199482	275.743593174	STA0+59.992 R0.002 CUT 275.744
835	9172766.235582722	370373.154331389	276.161209794	STA0+79.992 L0.003 CUT 276.161
836	9172747.429769225	370366.303752273	276.717923475	STA1+00.007 L0.005 CUT 276.718
837	9172728.637457702	370359.458877318	277.255968758	STA1+20.007 L0.006 CUT 277.256
838	9172709.862202123	370352.599248685	277.584982481	STA1+39.996 R0.011 CUT 277.585
839	9172691.065965753	370345.763689347	277.402886334	STA1+59.997 L0.001 CUT 277.403
840	9172672.265734082	370338.922203356	277.004459045	STA1+80.003 L0.009 CUT 277.004
841	9172653.475440962	370332.073004186	274.449585977	STA2+00.003 L0.006 CUT 274.450
842	9172634.686404305	370325.226103094	273.509846907	STA2+20.001 L0.005 CUT 273.510
843	9172615.893223614	370318.367259971	272.744612077	STA2+40.006 R0.006 CUT 272.745
844	9172597.108697543	370311.533052909	271.922606664	STA2+59.995 L0.003 CUT 271.923
845	9172578.319853786	370304.688489497	271.107741678	STA2+79.992 L0.004 CUT 271.108
846	9172559.528368432	370297.829092325	270.170056084	STA2+99.996 R0.008 CUT 270.170
847	9172540.730160819	370290.998732100	269.663899835	STA3+19.997 L0.009 CUT 269.664
848	9172521.950135263	370284.135292160	269.088878792	STA3+39.992 R0.010 CUT 269.089
849	9172503.133382764	370277.291594227	268.561275892	STA3+60.015 L0.001 CUT 268.561
850	9172484.345624896	370270.446927244	268.781397885	STA3+80.010 L0.002 CUT 268.781
851	9172465.570304269	370263.610696503	269.456697160	STA3+99.992 L0.006 CUT 269.457
852	9172446.770969596	370256.750644862	270.217010605	STA4+20.003 R0.004 CUT 270.217
853	9172427.980178278	370249.898501389	271.230549563	STA4+40.005 R0.010 CUT 271.231

854	9172409.206649050	370243.054346033	271.763658302	STA4+59.987 R0.013 CUT 271.764
855	9172390.392118240	370236.227598167	272.504980860	STA4+80.001 L0.013 CUT 272.505
856	9172371.603848020	370229.375847479	273.233229653	STA5+00.000 L0.007 CUT 273.233
857	9172352.822249342	370222.524422626	273.935199595	STA5+19.992 R0.001 CUT 273.935
858	9172334.021946337	370215.672846246	274.663154362	STA5+40.002 R0.002 CUT 274.663
859	9172315.235367391	370208.833714668	275.430031919	STA5+59.995 L0.003 CUT 275.430
860	9172322.081129318	370190.034668926	275.636241833	STA0+00.002 L0.004 CUT 275.636
861	9172340.862886498	370196.888975679	274.917376740	STA0+19.995 R0.007 CUT 274.917
862	9172359.664792856	370203.726387534	274.170984237	STA0+40.002 L0.005 CUT 274.171
863	9172378.446138395	370210.578118368	273.411179259	STA0+59.994 R0.003 CUT 273.411
864	9172397.240893927	370217.430967400	272.673573850	STA0+79.999 R0.008 CUT 272.674
865	9172416.023818746	370224.268684144	271.886688100	STA0+99.988 R0.002 CUT 271.887
866	9172434.829231907	370231.108958029	271.446858418	STA1+19.998 L0.008 CUT 271.447
867	9172453.621031204	370237.955742173	270.324345006	STA1+39.999 L0.008 CUT 270.324
868	9172472.408645587	370244.822347612	269.616887828	STA1+60.002 R0.012 CUT 269.617
869	9172491.211476583	370251.636374946	269.102267507	STA1+80.001 L0.023 CUT 269.102
870	9172509.995519631	370258.498618959	269.073261058	STA1+99.999 L0.006 CUT 269.073
871	9172528.791588930	370265.358605420	269.694205189	STA2+20.008 R0.005 CUT 269.694
872	9172547.575911045	370272.192357527	270.359849947	STA2+39.997 L0.004 CUT 270.360
873	9172566.369282642	370279.040536526	271.112599239	STA2+59.999 L0.003 CUT 271.113
874	9172585.161009368	370285.890294328	271.744581434	STA2+80.000 L0.000 CUT 271.745
875	9172603.954049911	370292.735368064	272.761967278	STA3+00.001 L0.002 CUT 272.762
876	9172622.745011604	370299.583002372	273.446897710	STA3+20.001 L0.001 CUT 273.447
877	9172641.533204695	370306.425184846	274.221165058	STA3+39.996 L0.004 CUT 274.221
878	9172660.333358306	370313.274188922	275.358837580	STA3+60.005 L0.005 CUT 275.359
879	9172679.123840347	370320.126860179	276.175968554	STA3+80.006 R0.001 CUT 276.176
880	9172697.898536004	370326.968807238	276.833274067	STA3+99.989 R0.002 CUT 276.833
881	9172716.702949502	370333.814537656	277.063592431	STA4+20.000 L0.003 CUT 277.064
882	9172735.490853716	370340.660066737	276.986759200	STA4+39.997 L0.003 CUT 276.987
883	9172754.285835926	370347.507465991	276.697939631	STA4+60.000 L0.003 CUT 276.698
884	9172773.081175709	370354.364921780	276.309565597	STA4+80.007 R0.006 CUT 276.310
885	9172791.870701920	370361.199826830	275.772549002	STA5+00.001 L0.005 CUT 275.773
886	9172810.658133447	370368.058439566	275.286466889	STA5+20.002 R0.008 CUT 275.286
887	9172829.453765694	370374.923061288	274.591656323	STA5+40.012 R0.024 CUT 274.592
888	9172848.243621245	370381.748711747	273.868281990	STA5+60.003 R0.005 CUT 273.868
889	9172867.033144379	370388.592751108	273.022956532	STA5+80.000 R0.003 CUT 273.023
890	9172871.734062605	370390.299861778	272.852008196	CUT 272.852
891	9172878.600082284	370371.507324656	272.519674668	CUT 272.520
892	9172873.875625324	370369.795420919	273.115676045	CUT 273.116
893	9172855.095905747	370362.934411439	273.923649998	STA0+00.000 R0.019 CUT 273.924
894	9172836.291448763	370356.110893353	274.591169719	STA0+20.004 L0.007 CUT 274.591
895	9172817.500509743	370349.256391023	275.188408998	STA0+40.006 R0.000 CUT 275.188
896	9172798.705576234	370342.422304227	275.659421028	STA0+60.005 L0.013 CUT 275.659
897	9172779.922708038	370335.562992877	276.056795010	STA0+80.001 R0.002 CUT 276.057
898	9172761.129645256	370328.713766519	276.408096185	STA0+00.003 R0.004 CUT 276.408

899	9172742.335371168	370321.869119370	276.654302363	STA0+20.005 R0.001 CUT 276.654
900	9172723.544490203	370315.025276746	276.769152914	STA0+40.003 L0.001 CUT 276.769
901	9172704.748423122	370308.190910047	276.786740250	STA0+60.004 L0.014 CUT 276.787
902	9172685.961219421	370301.326939693	276.691592106	STA0+80.005 R0.004 CUT 276.692
903	9172667.176926138	370294.483445101	277.107994409	STA0+99.997 R0.003 CUT 277.108
904	9172648.395551184	370287.641994366	275.557210532	STA1+19.986 R0.002 CUT 275.557
905	9172629.591475491	370280.788057593	274.636081179	STA1+40.000 R0.004 CUT 274.636
906	9172610.798207112	370273.948859653	273.389891481	STA1+59.999 L0.003 CUT 273.390
907	9172592.005512305	370267.100419589	272.508905469	STA1+80.001 L0.002 CUT 272.509
908	9172573.209294528	370260.248971873	271.755450527	STA2+00.007 R0.001 CUT 271.755
909	9172554.422130654	370253.407720361	271.070804419	STA2+20.001 L0.003 CUT 271.071
910	9172535.638557412	370246.567647877	270.417389969	STA2+39.991 L0.006 CUT 270.417
911	9172516.844368510	370239.705558564	269.703722964	STA2+59.999 R0.008 CUT 269.704
912	9172498.058109753	370232.864214900	269.518317930	STA2+79.992 R0.005 CUT 269.518
913	9172479.261041096	370226.008603541	270.036989468	STA3+00.000 R0.011 CUT 270.037
914	9172460.470078163	370219.175631856	270.665582721	STA3+19.995 L0.002 CUT 270.666
915	9172649.699999999	370380.140000000	277.844000000	BASE-54
916	9173030.049900895	370193.369668845	276.864390077	PISTA
917	9173029.033304377	370192.963973697	276.966205407	PISTA
918	9173026.701482292	370191.943999135	277.171032797	PISTA
919	9173023.408338632	370190.758684826	277.318723962	PISTA
920	9173020.023025468	370189.480375385	277.236877804	PISTA
921	9173017.615698019	370188.663564955	277.089874705	PISTA
922	9173015.967969285	370188.183036730	276.875862077	PISTA
923	9173012.656206956	370187.135657493	275.707870972	PISTA
924	9173004.548812872	370184.138303203	275.736769186	PISTA
925	9172996.206780793	370181.048757096	276.020058331	PISTA
926	9172989.457360843	370199.904125982	275.521600409	TN
927	9172998.331141649	370204.027492525	275.281751704	TN
928	9173005.061057143	370206.782960349	275.409989817	TN
929	9173009.269118508	370208.169704890	276.850459092	TN
930	9173010.442596676	370208.583490457	276.974360936	PISTA
931	9173012.743511278	370209.436073477	277.100887069	PISTA
932	9173016.100402303	370210.795658951	277.167762657	PISTA
933	9173019.325261295	370212.918381062	277.040476139	PISTA
934	9173021.484483274	370213.712416466	276.796821553	PISTA
935	9173022.799070276	370214.213394355	276.625573265	PISTA
936	9173016.014560595	370233.138758059	276.452247445	PISTA
937	9173014.809179097	370232.640749075	276.670760163	PISTA
938	9173014.809179097	370232.640749075	276.670760163	PISTA
939	9173014.809179097	370232.640749075	276.670760163	PISTA
940	9173014.809179097	370232.640749075	276.670760163	PISTA
941	9173014.809179097	370232.640749075	276.670760163	PISTA
942	9173014.809179097	370232.640749075	276.670760163	PISTA
943	9173014.809179097	370232.640749075	276.670760163	TN

944	9173014.809179097	370232.640749075	276.670760163	TN
945	9173014.809179097	370232.640749075	276.670760163	TN
946	9172975.313359728	370237.528311389	274.922649189	TN
947	9172984.463845875	370241.690949557	274.852893901	TN
948	9172991.670368917	370244.865549031	275.154512265	TN
949	9172995.424341576	370246.036098474	276.558016756	TN
950	9172996.643707061	370246.438412471	276.667689428	TN
951	9172999.015419589	370247.575539080	276.816838545	TN
952	9173002.281913051	370249.171510531	276.905199348	TN
953	9173005.549896248	370250.712799875	276.747330601	TN
954	9173007.836982183	370251.657957088	276.552778672	TN
955	9173009.146380074	370252.127184412	276.335189561	TN
956	9173002.654103847	370270.740063709	276.149435050	PISTA
957	9173001.019672286	370270.241161339	276.345210576	PISTA
958	9172998.867446372	370269.594300912	276.477605453	PISTA
959	9172995.448416296	370268.317910521	276.627131205	PISTA
960	9172992.127022015	370267.028455665	276.561013554	PISTA
961	9172989.915534053	370265.994128880	276.389743101	PISTA
962	9172988.709179321	370265.665265648	276.220676386	PISTA
963	9172984.946631182	370264.185002270	274.788864368	TN
964	9172978.115462273	370261.553204382	274.684125618	TN
965	9172967.934001882	370257.466133179	274.847066365	TN
966	9172961.164180204	370276.290018079	274.697356099	TN
967	9172968.901955310	370264.156649436	274.941957890	POSTE
968	9172970.511604181	370280.477849789	274.480213280	TN
969	9172977.164669903	370283.808034032	274.477911837	TN
970	9172981.054205218	370285.658659655	275.912307978	PISTA
971	9172982.623786705	370286.116757670	276.096777363	PISTA
972	9172984.814431222	370287.009415238	276.232147269	PISTA
973	9172988.150640428	370288.345332563	276.324773108	PISTA
974	9172991.486255718	370289.786603667	276.203555902	PISTA
975	9172993.501721963	370290.929117304	276.035290864	PISTA
976	9172995.188266903	370291.556734415	275.795892124	PISTA
977	9172988.557184689	370310.513796498	275.546900423	PISTA
978	9172986.679963235	370309.784215281	275.698092916	PISTA
979	9172984.488422863	370309.151641346	275.826014973	PISTA
980	9172981.165094459	370307.660008688	275.954518375	PISTA
981	9172977.946790809	370306.748456694	275.864016598	PISTA
982	9172975.514819263	370305.823244506	275.738376091	PISTA
983	9172973.918161778	370305.260842920	275.532196825	PISTA
984	9172970.554083500	370304.077441226	274.207282829	TN
985	9172962.209858306	370301.423507107	274.166581689	TN
986	9172953.482645555	370297.786987169	274.361392054	TN
987	9172946.291607957	370317.190606576	273.875007025	TN
988	9172955.710296018	370320.855532983	273.766953635	TN

989	9172963.254856842	370323.782347046	273.848639395	TN
990	9172966.998425234	370325.054758378	275.180470765	TN
991	9172968.243544128	370325.538911352	275.319659078	TN
992	9172970.629305521	370326.415604876	275.447715063	PISTA
993	9172973.827340784	370328.010090140	275.503852217	PISTA
994	9172977.017937448	370329.509214887	275.378796004	PISTA
995	9172979.220740574	370330.508100610	275.267773908	PISTA
996	9172981.034983939	370331.152545143	275.166237372	PISTA
997	9172974.902382743	370347.398013329	274.585269045	PISTA
998	9172973.423366545	370346.846124396	274.841894015	PISTA
999	9172971.449983999	370346.119364780	274.972308149	PISTA
1000	9172967.769609194	370344.897973132	275.117069791	PISTA
1001	9172964.404858561	370343.556571109	275.028641568	PISTA
1002	9172962.226621805	370342.629418162	274.918576141	PISTA
1003	9172960.796902685	370342.060121192	274.808899555	PISTA
1004	9172956.995398751	370340.276284951	273.364766702	TN
1005	9172951.250157423	370337.364274576	273.109825740	TN
1006	9172948.457953882	370336.626868366	272.698765816	TN
1007	9172940.482083887	370333.382303847	272.768525283	TN
1008	9172933.704129221	370352.191738121	271.522662585	STK93 TN FILL 1.246
1009	9172940.341450252	370355.659833662	271.397538464	TN
1010	9172942.379702073	370356.685437707	271.678022125	TN
1011	9172944.060504733	370357.412833911	272.719211147	TN
1012	9172949.966683842	370359.712847564	272.817201972	TN
1013	9172953.967566803	370361.636825512	274.383465671	PISTA
1014	9172954.976658896	370362.097673286	274.487227871	PISTA
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1016	9172960.668526981	370364.521293375	274.627249702	PISTA
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1022	9172957.608237032	370383.766835685	274.103107225	PISTA
1023	9172954.342168085	370382.240148566	274.204643540	PISTA
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1031	9172926.918776048	370370.784824994	270.909897823	TN
1032	9172920.285114504	370389.028647792	270.349965410	TN
1033	9172925.590012945	370390.332169519	270.262909985	TN

1034	9172931.103344023	370392.382350629	270.816750338	TN
1035	9172932.664462175	370392.974258720	271.698363490	TN
1036	9172937.060036071	370394.933574696	271.955149768	TN
1037	9172941.396281151	370396.804639740	273.468682443	TN
1038	9172942.361074640	370397.280368436	273.588456633	POSTE
1039	9172944.704991875	370398.316135283	273.744847922	POSTE
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1042	9172953.613991611	370401.882489674	273.506021386	POSTE
1043	9172955.183329329	370402.419801835	273.349866628	POSTE
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1045	9172947.046396924	370420.025332056	273.056224623	POSTE
1046	9172944.681828585	370419.414015830	273.221434515	POSTE
1047	9172942.348037753	370418.611890601	273.348793859	POSTE
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1049	9172935.837604132	370416.091843282	273.139566698	POSTE
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1053	9172915.122978851	370406.684454640	270.947124351	TN
1054	9172907.558003068	370424.827777993	271.239775310	TN
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1319	9172871.772569250	370390.270342813	272.732805889	
1320	9172867.081575709	370388.452156343	272.880609399	LINHA
1321	9172857.332617858	370385.504422802	273.492337782	linha
1322	9172848.056597808	370381.413293438	273.828689751	linha
1323	9172838.572760161	370378.050637513	274.279977203	LINHA
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1547	9172526.816920687	369973.741890538	276.259809607	ESTRADA
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1810	9173778.813452274	367825.754813943	293.502922703	TN
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1941	9173457.901028574	367809.744508277	296.595764105	TN
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2058	9173352.437023323	367886.993840090	296.627091315	TN
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2067	9173164.482751358	367878.691162608	296.222959893	TN EL
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2315	9173192.344861435	368034.537353455	296.756995881	TN
2316	9173188.423770346	368044.344657208	296.699413957	TN
2317	9173185.096646944	368053.842265812	296.723102868	TN
2318	9173181.630581530	368063.745882557	296.711011918	TN
2319	9173177.807900395	368073.232506568	296.702147020	TN
2320	9173174.840395931	368082.784956229	296.658291363	TN
2321	9173171.457565306	368092.528296130	296.614203022	TN
2322	9173167.895946708	368101.966029236	296.597167390	TN
2323	9173164.493022623	368111.546828655	296.555453679	TN
2324	9173160.915018823	368121.195679358	296.522784905	TN
2325	9173157.668366514	368130.664753823	296.505047334	TN
2326	9173153.468760654	368140.419496585	296.460277773	TN
2327	9173149.834075455	368149.857232348	296.422853547	TN
2328	9173146.585316863	368159.656135321	296.377922252	TN
2329	9173143.318310628	368169.139316312	296.332811108	TN
2330	9173139.693205824	368179.249459255	296.250500806	TN
2331	9173134.263604259	368193.474603975	296.141137028	TN
2332	9173130.328214172	368203.575351911	296.082623518	TN
2333	9173127.266158322	368213.200614042	296.060226768	TN
2334	9173124.398626527	368222.797929953	296.031399726	TN
2335	9173116.755173413	368241.244514600	295.820106222	TN
2336	9173112.062992798	368250.163464702	295.753996323	TN
2337	9173106.515053727	368258.575829931	295.668910422	TN
2338	9173101.827854360	368267.428051225	295.556205426	TN

2339	9173103.744850140	368288.747896312	295.358259518	TN
2340	9173102.167312404	368299.064833967	295.282253866	TN
2341	9173097.587426139	368307.975175828	295.161871496	TN
2342	9173090.648152204	368322.223827013	294.862479363	TN
2343	9173086.118587667	368331.598158645	294.729666549	TN
2344	9173080.480121544	368341.637928153	294.461953205	TN
2345	9173076.501800893	368350.889866859	294.237711030	TN
2346	9173073.109293530	368360.743861063	293.957453680	TN
2347	9173067.389674749	368378.829920372	293.480817909	TN
2348	9173063.981134215	368388.482415469	293.229418738	TN
2349	9173060.067383124	368398.249354504	292.914864808	TN
2350	9173057.906735880	368402.772071554	314.423768216	TN
2351	9173057.910574898	368402.772762021	292.839483711	TN

5 INFORMAÇÕES ADICIONAIS

O presente imóvel teve seu levantamento topográfico planialtimétrico realizado conforme especificações técnicas fornecidas pela contratante. No presente projeto estão disponíveis as coordenadas utm com suas altitudes referenciadas conforme coleta in loco.

A escala utilizada foi a de 1: 10.000, conforme a necessidade do croqui, e dentro da norma estabelecida.

As curvas de nível tem intervalo entre curvas intermediárias de 0,50 m e de 5 m entre curvas mestra.

As presentes coordenadas do levantamento se encontram no atual datum de referência sirgas 2000.

Para conclusão do trabalho na área em que se encontra a lavoura de milho, utilizamos um arquivo MDT do INPE fazendo seu tratamento e ajustamento, compatibilizando com as coordenadas obtidas no levantamento realizado "in loco" preenchendo assim toda a área do projeto. No presente ajustamento obtivemos uma margem de erro máxima na horizontal de 3mm+0,5ppm e na vertical 8mm+1,0ppm, em relação ao levantamento total, devido se tratar de uma área e com pouca cobertura vegetal, tendo sua declividade de 13 mm/m, trabalhando com a unidade de medidas (m).

Finalizando, o presente MDT obtido nos dados do INPE, apresenta erro altimétrico aceitável para a produção cartográfica utilizada no presente levantamento.

Disponível em: <http://www.dsr.inpe.br/topodata/data/geotiff/> acesso em: 12/03/2019