



**PROJETO DE RECUPERAÇÃO HIDROAMBIENTAL
NA BACIA DO CÓRREGO PASTO DOS BOIS,
URUANA DE MINAS, ESTADO DE MINAS GERAIS**

**RELATÓRIO DE EXECUÇÃO DE
SERVIÇOS “AS BUILT”**

**ATO CONVOCATÓRIO Nº 023/2014
CONTRATO DE GESTÃO Nº 14/ANA/2010
CONTRATO Nº: 029/2014
AGOSTO/2015**

NEOGeo
Geotecnologia



Associação Executiva de Apoio à Gestão
de Bacias Hidrográficas Peixe Vivo

CBHSF
COMITÉ DA BACIA HIDROGRÁFICA
DO RIO SÃO FRANCISCO



**PROJETO DE RECUPERAÇÃO HIDROAMBIENTAL
NA BACIA DO CÓRREGO PASTO DOS BOIS,
URUANA DE MINAS, ESTADO DE MINAS GERAIS**

RELATÓRIO DE EXECUÇÃO DE SERVIÇOS “AS BUILT”


**ATO CONVOCATÓRIO Nº 023/2014
CONTRATO DE GESTÃO Nº 14/ANA/2010
CONTRATO Nº: 029/2014
AGOSTO/2015**



Associação Executiva de Apoio à Gestão
de Bacias Hidrográficas Peixe Vivo



| EQUIPE NEOGEO GEOTECNOLOGIA | |
|--|------------------------------------|
| NOME | FUNÇÃO |
| Juliano Vitorino de Matos | Sócio Diretor |
| Fábio José Miranda | Sócio Diretor |
| Nello Nemer | Engenheiro Civil |
| Rogério Rodrigues Pedrosa | Engenheiro Civil |
| Erick Costa | Engenheiro Agrimensor |
| Resisliane Santos | Assistente Administrativa |
| Franciele Neri | Técnica de Segurança do Trabalho |
| Carlos Luiz do Nascimento Barbosa | Encarregado de Obras |
| Jarbas Ribeiro Oliveira | Encarregado de Obras |
| Amanda Florentino de Oliveira | Coordenadora da Mobilização Social |
| Julianne Cosse de Azevedo | Mobilizadora Social |
| Fabiano Luciano Rocha | Encarregado de Obras |

| | | |
|---|---|---------------------------------------|
| PROJETO DE RECUPERAÇÃO HIDROAMBIENTAL NA BACIA DO CÓRREGO PASTO DOS BOIS, URUANA DE MINAS, MG. | | |
| RELATÓRIO DE EXECUÇÃO DE SERVIÇOS “ASBUILT”. | | |
| Revisão: 00 | Finalidade: | Data: |
| Legenda Finalidade: [1] Para Informação - [2] Para Comentário - [3] Para Aprovação | | |
| <u>Elaborado por:</u> Jarbas Ribeiro | | |
| <u>Supervisionado por:</u> Nello Nemer | | <u>Aprovado por:</u> Juliano Vitorino |
| Ass. Autor | Ass. Superv. | Ass. Aprovação |
| | | |
|  | NEOGEO GEOTECNOLOGIA LTDA Rua Guaicuí, nº 26, Sala 1101 Bairro Coração de Jesus – CEP: 30380-380 Belo Horizonte / MG (31) 2510-2700 | |

APRESENTAÇÃO DO TRABALHO

O presente relatório, atendendo especificações do Termo de Referência das Obras de Recuperação hidroambiental na Bacia do Córrego dos Pastos dos Bois, Uruana de Minas, Minas Gerais elaborado pela AGB Peixe Vivo, contém informações a respeito das atividades realizadas pela empresa Neogeo Geotecnologias Ltda., referente às obras e serviços executados no período conforme contrato nº 029/2014, sendo um dos produtos a serem entregues, componente dos trabalhos executados ao longo do projeto.

No documento encontra-se descrição sucinta da execução dos serviços, quais sejam, escavação de barraginhas, adequação de estradas, construção de cercas e execução de terraceamento.

A informação é dividida em tópicos quanto à sua tipologia e são subdivididas em textos descritivos da operação realizada, tabela contendo coordenadas geográficas dos pontos de intervenção, fotografias dos serviços executados e tabelas comparativas de quantitativo de serviço planejado e serviço executado.

SUMÁRIO

| | |
|--|------------|
| 1. INTRODUÇÃO | 7 |
| 2. OBRA HIDROAMBIENTAL..... | 8 |
| 3. OBJETIVOS E JUSTIFICATIVA | 9 |
| 4. DESENVOLVIMENTO..... | 10 |
| 4.1. ELABORAÇÃO DO PLANO DE TRABALHO | 10 |
| 4.2. PARCERIAS | 11 |
| 4.3. SERVIÇOS DE SUPERVISÃO | 11 |
| 4.4. ACOMPANHAMENTO E FISCALIZAÇÃO | 12 |
| 4.5. TOPOGRAFIA..... | 13 |
| 4.6. OBRAS..... | 13 |
| 5. DESMOBILIZAÇÃO | 174 |
| 6. QUANTITATIVOS EXECUTADOS..... | 175 |
| 7. CONSIDERAÇÕES FINAIS | 176 |
| 8. REFERÊNCIAS BIBLIOGRÁFICAS | 177 |
| ANEXO | 178 |

LISTA DE FIGURAS

| | |
|---|-----|
| Figura 1: Intervenções executadas no projeto..... | 9 |
| Figura 2: Plano de Trabalho..... | 10 |
| Figura 3: Cronograma de execução da obra..... | 11 |
| Figura 4: Supervisão das obras;..... | 12 |
| Figura 5: Fiscalização das obras;..... | 12 |
| Figura 6: Topografia executando levantamento topográfico; | 13 |
| Figura 7: Cerca na APP Pasto dos Bois;..... | 15 |
| Figura 8: Cerca na APP Pasto dos Bois;..... | 16 |
| Figura 9: Barraginhas executadas nos terraços;..... | 27 |
| Figura 10: Terraços executados;..... | 174 |
| Figura 11: Retirada das placas de obra. | 175 |

LISTA DE TABELAS

| | |
|--|-----|
| Tabela 1: Planilha de coordenadas da APP Pasto dos Bois. | 14 |
| Tabela 2: Planilha de coordenadas das Barraginhas. | 16 |
| Tabela 3: Planilha de coordenadas das RAD's; | 28 |
| Tabela 4: Planilha de coordenadas das RAD's Alternativas | 74 |
| Tabela 5: Quantitativo de RAD's Alternativas executadas. | 173 |
| Tabela 6: Quantitativo de RAD's executadas. | 173 |
| Tabela 7: Quantitativo de serviços executados;..... | 176 |

1. INTRODUÇÃO

A partir de 2010, foi instituída a cobrança pelo uso dos recursos hídricos na Bacia Hidrográfica do Rio São Francisco, conforme a Resolução CNRH nº 108 de 2010. A AGB Peixe Vivo delegada “Agência de Bacia” do CBH São Francisco elaborou então, o Plano de Investimento dos Recursos da Cobrança para o ano de 2011, contemplando diretrizes para a utilização destes recursos.

Sob o Ato Convocatório Nº 023/2014 e o Contrato de Gestão Nº 14/ANA/2010 a NeoGeo Geotecnologia foi contratada para a realização do Projeto de Recuperação Hidroambiental na Bacia do Córrego dos Pastos dos Bois, Uruana de Minas, Minas Gerais.

O projeto, executado em sua plenitude, pretende promover a redução dos processos erosivos através de ações mecânicas de diferentes modalidades em todo entorno da área da Bacia do Córrego dos Pastos dos Bois, assim delimitado no termo de Referência.

Para tal, os padrões para execução de obras, foram descritos no termo de referência e Plano de Trabalho, tais como: Construção de bacias de contenção das águas pluviais em pontos mais adequados nos terraços, que retêm as águas provenientes das estradas, que causariam erosões e carreamentos de sedimentos; construção de curvas em nível em áreas em processo de degradação, para também reter sedimentos que causam o assoreamento no leito rio; fechamento com cerca de arrame liso em torno das áreas de preservação permanente, evitando entrada de animais de forma irregular, serviços de topografia; supervisão das obras e mobilização social.

Para a realização das intervenções propostas para a recuperação hidroambiental da referida área, as atividades de mobilização social são imprescindíveis para o sucesso, haja vista a grande divisão de opiniões quando o assunto é socioambiental.

Espera-se que o projeto, após sua implantação, melhore a qualidade e aumente a quantidade de água no Córrego Pasto dos Bois e conseqüentemente no Rio São Francisco. Com isto almeja-se melhorar a qualidade de vida da população local. Contudo, é necessário que se faça um trabalho de orientação e capacitação da população de forma a garantir a sustentabilidade do projeto.

2. OBRA HIDROAMBIENTAL

Na área objeto deste projeto constatou-se uma série de danos ambientais decorrentes do uso inadequado do solo e de práticas que são utilizadas ao longo de muitos anos, que acarretam a degradação da vegetação, o empobrecimento dos solos e o surgimento de processos erosivos, que contribuem ao aumento do assoreamento dos cursos de água.

Nas áreas de relevo ondulado muitas vezes são adotadas práticas como as queimadas, nas Áreas de Preservação Permanente (APP), contribuindo de forma significativa para a exposição e empobrecimento dos solos, surgimento de processos erosivos e para o assoreamento dos cursos de água. Outro fato constatado foi a falta de medidas de controle das águas pluviais em grande parte das estradas, com a construção de lombadas e bacias de contenção de águas pluviais (barraginhas), esse fato pode melhorar significativamente.

Constatou-se que estes solos, em regiões de relevo ondulado, são altamente susceptíveis à instalação de processos erosivos, necessitando que sejam adotadas medidas para conservação, como terraceamento, implementação de medidas para adequação das estradas rurais, cercamento de App's.

Os principais problemas constatados na região que justificam a execução destas obras e serviços sugeridos são:

- Nascentes desprotegidas;
- Matas ciliares degradadas;
- Solos com processos erosivos instalados;
- Rio com intenso processo de assoreamento;
- Baixo nível de consciência ambiental por parte dos proprietários e produtores;

Identificou se, portanto, a necessidade de realização de obras de recuperação hidroambiental a fim de minimizar os impactos causados pelas ações descritas acima.

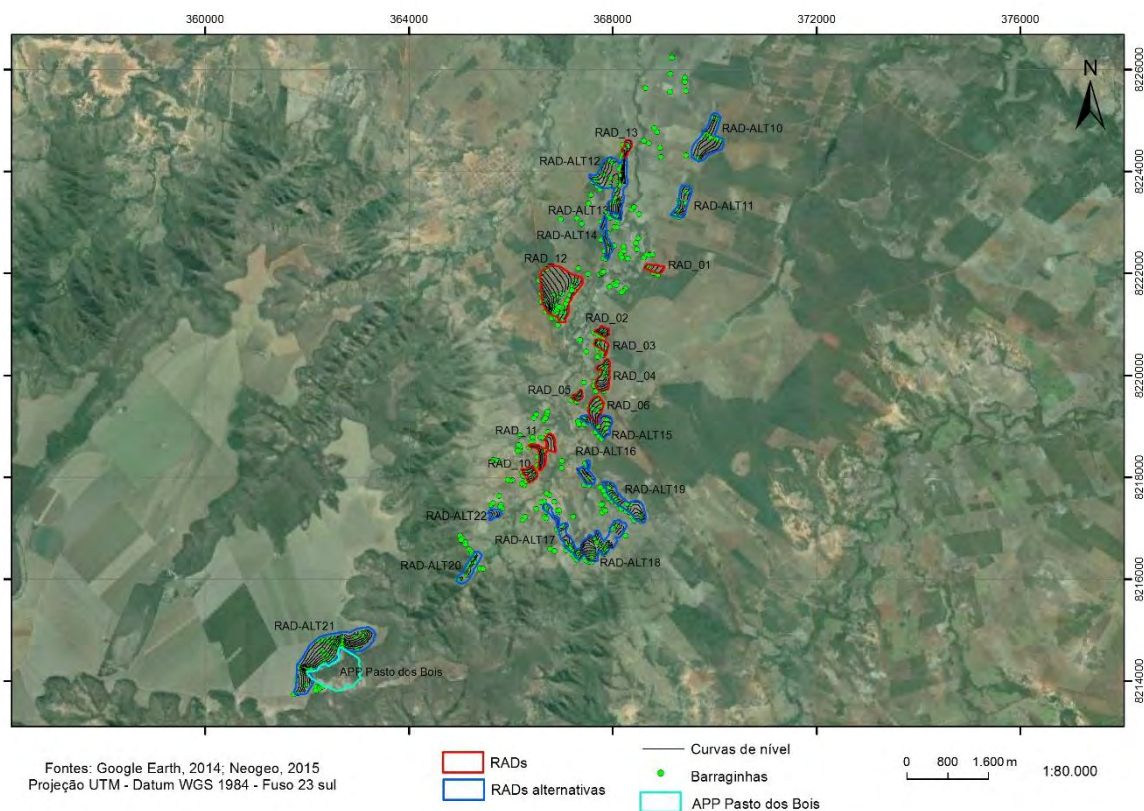


Figura 1: Intervenções executadas no projeto.

3. OBJETIVOS E JUSTIFICATIVA

O objetivo geral do projeto foi promover a recuperação hidroambiental nas proximidades da bacia do córrego Pastos dos Bois, por meio de controle dos processos erosivos, adoção de práticas de conservação do solo, proteção de nascentes e adequação de estradas rurais, diminuindo desta forma o processo de assoreamento e melhorando a qualidade e quantidade das águas:

Os objetivos específicos eram:

- Controlar a ocorrência de processos erosivos deflagrados devido aos grandes comprimentos de rampa existentes nos terrenos da região;
- Proteger cabeceiras e APPs com a construção de cercas de arame liso;
- Possibilitar o aumento da disponibilidade hídrica devido a conservação das APP's;
- Melhoria da qualidade de água devido a proteção das APP's e a diminuição do assoreamento;

- Construção de terraços em conjunto com barraginhas, visando a conservação/manejo adequado do solo e da água;
- Aumento da disponibilidade hídrica, devido ao reabastecimento dos aquíferos como consequência do armazenamento de água nas barraginhas e nos terraços;
- Promover a educação ambiental e a mobilização das famílias assentadas na bacia do córrego;

4. DESENVOLVIMENTO

4.1. ELABORAÇÃO DO PLANO DE TRABALHO

No sentido de atender à exigência contida no Termo de Referência e planejar a execução das atividades, visando a maior eficiência possível, foi elaborado o plano de trabalho do projeto, com cronograma de execução físico dos serviços a serem executados. Visando adequar à realidade local e contornar algumas dificuldades encontradas durante o andamento das atividades que pudessem impactar no prazo de execução do serviço



Figura 2: Plano de Trabalho.

| GRUPO NEOgeo | | CRONOGRAMA FISICO | | | | | | | |
|--|--------|-------------------|--------|--------|--------|--------|--------|--------|--|
| PROJETO DE RECUPERAÇÃO HIDROAMBIENTAL NA BACIA Córrego Pasto dos Bois - URUANA DE MINAS / MG | | | | | | | | | |
| CRONOGRAMA DA IMPLANTAÇÃO DO PROJETO | | | | | | | | | |
| ATIVIDADE | MÊS 01 | MÊS 02 | MÊS 03 | MÊS 04 | MÊS 05 | MÊS 06 | MÊS 07 | MÊS 08 | |
| PLANO DE TRABALHO | | | | | | | | | |
| Elaboração do Plano de Trabalho | | | | | | | | | |
| SERVIÇOS PRELIMINARES | | | | | | | | | |
| Canteiro de Obras | | | | | | | | | |
| Placa da Obra | | | | | | | | | |
| SERVIÇOS TOPOGRÁFICOS | | | | | | | | | |
| Locação e estaqueamento das cercas | | | | | | | | | |
| Locação e estaqueamento das áreas degradadas - Terraços | | | | | | | | | |
| Elaboração do relatório e Planta de Locação das intervenções | | | | | | | | | |
| RECUPERAÇÃO DE ÁREAS DEGRADADAS - RAD | | | | | | | | | |
| Construção de barraginhas | | | | | | | | | |
| Construção de terraços em nível | | | | | | | | | |
| PROTEÇÃO DE APPS | | | | | | | | | |
| Implantação de cercas, inclusive aceiro | | | | | | | | | |
| MOBILIZAÇÃO SOCIAL | | | | | | | | | |
| Mobilização Social - Relatório | | | | | | | | | |
| RELATÓRIO DAS OBRAS | | | | | | | | | |
| Relatório Final e As Built Final | | | | | | | | | |
| DESMOBILIZAÇÃO | | | | | | | | | |
| Desmobilização | | | | | | | | | |

Figura 3: Cronograma de execução da obra.

4.2. PARCERIAS

Para auxiliar na execução das obras a empresa NEOGEO contou com o apoio de moradores locais que auxiliaram na identificação de pontos críticos e da prefeitura que foi uma grande parceira nas etapas de mobilização social e identificação das áreas afetadas.

4.3. SERVIÇOS DE SUPERVISÃO

Para auxiliar na execução das obras a empresa NEOGEO contou com equipe chave capacitada, de modo a conduzir os trabalhos da maneira mais efetiva possível, como: modernos equipamentos, veículos, equipe administrativa dando suporte para a equipe de campo, visando a minimizar os riscos e evitar retrabalhos.

A equipe iniciou seus trabalhos de planejamento assim que foi emitida a Ordem de Serviço e estava presente de forma integral no local da obra.

A equipe é composta dos seguintes profissionais e suas respectivas formações:

- Gerente de Obras – Engenheiro Civil – responsável técnico;
- Supervisor de Obras – Engenheiro Civil - residente;

- Topógrafo – Técnico em Agrimensura;
- Mobilizadora Social – Engenheira Agrônoma;
- Mobilizador Social – Técnico em Agropecuária.



Figura 4: Supervisão das obras;

4.4. ACOMPANHAMENTO E FISCALIZAÇÃO

As obras de recuperação hidroambiental ocorridas na cidade de Uruana de Minas/MG, passaram por um processo intenso de fiscalização executado pela empresa fiscalizadora IRRIPLAN e acompanhamento direto da AGB Peixe Vivo.

Foram realizadas visitas in loco durante o andamento das obras para reconhecimento e validação dos serviços executados.



Figura 5: Fiscalização das obras;

4.5. TOPOGRAFIA

Os trabalhos de topografia “AsBuilt” foram executados por funcionários qualificados, auxiliado por 2 ajudantes de campo.

Os equipamentos utilizados para os serviços foram:

- GPS Garmim Etrex 10;
- Câmera Digital Nikon;
- Estação total Nikon
- Trena de aço de 5 metros;
- Trena de Fibra de Vidro de 50 metros;
- Notebook Acer com software topográfico “Topo EVN”, software de desenho “Autocad 2012”; MagMap e Google Earth.



Figura 6: Topografia executando levantamento topográfico;

4.6. OBRAS

a) Proteção de Áreas de Preservação Permanente com Cercamento

A construção de cercas nas áreas de APP- principal nascente dos Pastos dos Bois foi executada respeitando os critérios definidos no Termo de Referência, no que tange a questão do espaçamento entre mourões esticadores e de suporte e o espaçamento entre arames.

Inicialmente foi executado o aceiro nos locais de construção das cercas, sendo 1 metros de largura, ao longo de todo o percurso.

O local, de grade potencial de degradação, foi identificado e cercado, de forma a atender, com qualidade a demanda ambiental da região.

Após a conclusão dos serviços de cercamento de APP, com a utilização de um GPS eTrex 10 GARMIM, foi feito o levantamento dos pontos de coordenadas topográficas dos mourões esticadores das cercas.

Os mourões esticadores estão identificados com códigos iniciados com as letras “M”, e sua respectiva numeração sucedida do número de cada estaca locada. A tabela contém quatro colunas, sendo a primeira a descrição do ponto, a segunda a coordenada “X”, a terceira a coordenada “Y” e a quarta a cota “Z”.

Tabela 1: Planilha de coordenadas da APP Pasto dos Bois.

| APP 01 | | | |
|--------|------------|-------------|---------|
| Estaca | E (X) | N (Y) | H (Z) |
| M1 | 362072,000 | 8214205,000 | 896,511 |
| M2 | 362011,000 | 8214186,000 | 896,876 |
| M3 | 362003,000 | 8214159,000 | 897,426 |
| M4 | 362304,000 | 8213913,000 | 874,549 |
| M5 | 362319,000 | 8213908,000 | 878,464 |
| M6 | 362387,000 | 8213898,000 | 874,784 |
| M7 | 362587,000 | 8214046,000 | 838,522 |
| M8 | 362715,000 | 8213957,000 | 842,531 |
| M9 | 362845,000 | 8213887,000 | 836,155 |
| M10 | 362888,000 | 8213874,000 | 831,829 |
| M11 | 362900,000 | 8213881,000 | 835,900 |
| M12 | 362962,000 | 8213942,000 | 831,397 |
| M13 | 362997,000 | 8214047,000 | 825,637 |
| M14 | 362999,000 | 8214073,000 | 816,076 |
| M15 | 363034,000 | 8214352,000 | 849,067 |
| M16 | 363047,000 | 8214400,000 | 856,523 |
| M17 | 363040,000 | 8214431,000 | 860,957 |
| M18 | 362994,000 | 8214505,000 | 871,192 |
| M19 | 362894,000 | 8214485,000 | 875,718 |
| M20 | 362810,000 | 8214562,000 | 880,396 |
| M21 | 362772,000 | 8214585,000 | 883,601 |
| M22 | 362704,000 | 8214593,000 | 882,772 |
| M23 | 362655,000 | 8214630,000 | 882,776 |
| M24 | 362624,000 | 8214621,000 | 886,614 |

| | | | |
|------------|------------|-------------|---------|
| M25 | 362609,000 | 8214561,000 | 886,004 |
| M26 | 362637,000 | 8214411,000 | 880,228 |
| M27 | 362531,000 | 8214348,000 | 881,695 |
| M28 | 362439,000 | 8214286,000 | 886,530 |
| M29 | 362364,000 | 8214314,000 | 890,338 |
| M30 | 362351,000 | 8214316,000 | 891,430 |
| M31 | 362334,000 | 8214315,000 | 892,075 |
| M32 | 362310,000 | 8214313,000 | 892,860 |
| M33 | 362293,000 | 8214309,000 | 892,673 |
| M34 | 362285,000 | 8214307,000 | 892,873 |
| M35 | 362255,000 | 8214278,000 | 892,370 |
| M36 | 362213,000 | 8214206,000 | 888,187 |
| M37 | 362183,000 | 8214193,000 | 887,754 |

Abaixo, ilustração da obra de construção de cerca na área de Proteção de APP executada no período.



Figura 7: Cerca na APP Pasto dos Bois;



Figura 8: Cerca na APP Pasto dos Bois;

b) Escavação de Barraginhas

O processo de construção de Barraginhas na região apresentou algumas particularidades no que se refere a litologia e vegetação nativa. Para o projeto foi previsto a construção de 442 barraginhas ao longo dos terraços, entretanto, devido às características da região, não foi possível executar todo o quantitativo conforme previsto no termo de referência.

Para atender uma demanda da região, as barraginhas restantes foram construídas em locais com avançado grau de degradação ambiental e com extrema necessidade de recebimento dessa benfeitoria. Os locais atendidos foram sugeridos pela comunidade e tiveram a comprovação da real necessidade através de visita “in loco” Foram construídas 362 barraginhas nos terraços, sendo estas identificadas na tabela com a letra “B” seguida pela sequência numérica e foram locadas 80 barraginhas em locais alternativos.

Tabela 2: Planilha de coordenadas das Barraginhas.

| TOPOGRAFIA | | | |
|--------------------------|------------|-------------|---------|
| PROJETO: URUANA DE MINAS | | | |
| TÉCNICO: MOAB DE SÁ | | | |
| BARRAGENS | | | |
| Estaca | E (X) | N (Y) | H (Z) |
| B-01 | 368888,000 | 8221964,000 | 538,681 |
| B-02 | 368895,000 | 8221961,000 | 538,537 |
| B-03 | 368801,000 | 8221997,000 | 536,867 |

| | | | |
|------|------------|-------------|---------|
| B-04 | 368619,000 | 8222302,000 | 524,008 |
| B-05 | 368670,000 | 8222355,000 | 524,445 |
| B-06 | 368725,000 | 8222349,000 | 526,995 |
| B-07 | 368789,000 | 8222356,000 | 530,700 |
| B-08 | 368712,000 | 8222122,000 | 533,249 |
| B-09 | 369453,000 | 8223588,000 | 527,643 |
| B-10 | 369318,000 | 8223434,000 | 526,619 |
| B-11 | 369303,000 | 8223376,000 | 527,130 |
| B-12 | 369279,000 | 8223230,000 | 527,442 |
| B-13 | 369222,000 | 8223123,000 | 529,178 |
| B-14 | 369298,000 | 8223095,000 | 530,832 |
| B-15 | 370073,000 | 8225016,000 | 523,333 |
| B-16 | 369995,000 | 8225042,000 | 521,275 |
| B-17 | 369966,000 | 8225051,000 | 519,518 |
| B-18 | 369790,000 | 8224739,000 | 519,679 |
| B-19 | 369799,000 | 8224689,000 | 521,383 |
| B-20 | 369855,000 | 8224718,000 | 522,047 |
| B-21 | 369908,000 | 8224689,000 | 524,202 |
| B-22 | 369928,000 | 8224651,000 | 525,564 |
| B-23 | 370038,000 | 8224616,000 | 527,440 |
| B-24 | 370149,000 | 8224582,000 | 528,531 |
| B-25 | 369725,000 | 8224253,000 | 527,845 |
| B-26 | 369662,000 | 8224263,000 | 526,458 |
| B-27 | 368614,000 | 8224589,000 | 518,289 |
| B-28 | 368711,000 | 8224546,000 | 518,674 |
| B-29 | 369444,000 | 8224311,000 | 518,552 |
| B-30 | 368876,000 | 8224763,000 | 514,414 |
| B-31 | 368817,000 | 8224843,000 | 514,087 |
| B-32 | 367917,000 | 8223133,000 | 533,705 |
| B-33 | 367957,000 | 8223082,000 | 529,124 |
| B-34 | 368079,000 | 8223083,000 | 524,605 |
| B-35 | 368103,000 | 8223022,000 | 524,218 |
| B-36 | 368042,000 | 8222906,000 | 523,304 |
| B-37 | 368085,000 | 8222895,000 | 523,517 |
| B-38 | 367781,000 | 8223005,000 | 535,604 |
| B-39 | 369435,000 | 8223355,000 | 531,988 |
| B-40 | 367807,000 | 8222725,000 | 532,623 |
| B-41 | 367778,000 | 8222647,000 | 533,915 |
| B-42 | 367845,000 | 8222433,000 | 533,818 |
| B-43 | 367825,000 | 8222283,000 | 534,096 |
| B-44 | 367866,000 | 8222275,000 | 532,327 |
| B-45 | 367915,000 | 8222487,000 | 530,920 |
| B-46 | 368034,000 | 8222538,000 | 528,198 |
| B-47 | 367912,000 | 8222629,000 | 527,800 |
| B-48 | 367899,000 | 8222784,000 | 526,247 |

| | | | |
|------|------------|-------------|---------|
| B-49 | 367838,000 | 8222769,000 | 528,345 |
| B-50 | 368224,000 | 8222431,000 | 533,522 |
| B-51 | 368162,000 | 8222362,000 | 533,623 |
| B-52 | 367574,000 | 8223527,000 | 525,445 |
| B-53 | 367528,000 | 8223362,000 | 527,066 |
| B-54 | 367395,000 | 8222967,000 | 536,359 |
| B-55 | 367303,000 | 8223077,000 | 536,663 |
| B-56 | 366985,000 | 8223058,000 | 539,359 |
| B-57 | 368183,000 | 8222298,000 | 548,610 |
| B-58 | 368300,000 | 8222283,000 | 545,668 |
| B-59 | 368480,000 | 8222461,000 | 541,485 |
| B-60 | 368462,000 | 8222589,000 | 540,198 |
| B-61 | 368505,000 | 8222680,000 | 540,316 |
| B-62 | 368216,000 | 8222516,000 | 533,751 |
| B-63 | 365006,000 | 8216840,000 | 620,103 |
| B-64 | 365053,000 | 8216793,000 | 613,177 |
| B-65 | 365023,000 | 8216765,000 | 615,366 |
| B-66 | 365111,000 | 8216709,000 | 606,929 |
| B-67 | 365113,000 | 8216674,000 | 611,503 |
| B-68 | 365187,000 | 8216577,000 | 619,560 |
| B-69 | 365231,000 | 8216532,000 | 618,017 |
| B-70 | 365242,000 | 8216500,000 | 616,868 |
| B-71 | 365281,000 | 8216467,000 | 609,002 |
| B-72 | 365267,000 | 8216399,000 | 606,973 |
| B-73 | 365284,000 | 8216372,000 | 602,797 |
| B-74 | 365282,000 | 8216333,000 | 599,105 |
| B-75 | 365215,000 | 8216290,000 | 605,496 |
| B-76 | 365169,000 | 8216222,000 | 608,193 |
| B-77 | 365184,000 | 8216198,000 | 603,796 |
| B-78 | 365137,000 | 8216072,000 | 605,292 |
| B-79 | 364994,000 | 8215976,000 | 611,517 |
| B-80 | 364960,000 | 8215979,000 | 615,734 |
| B-81 | 365400,000 | 8216204,000 | 601,494 |
| B-82 | 365452,000 | 8216193,000 | 602,639 |
| B-83 | 366363,000 | 8218575,000 | 578,662 |
| B-84 | 366674,000 | 8218754,000 | 573,035 |
| B-85 | 366593,000 | 8218484,000 | 580,231 |
| B-86 | 366526,000 | 8218383,000 | 583,226 |
| B-87 | 366527,000 | 8218226,000 | 581,862 |
| B-88 | 366553,000 | 8218159,000 | 579,648 |
| B-89 | 366683,000 | 8218506,000 | 576,395 |
| B-90 | 368098,000 | 8223125,000 | 527,659 |
| B-91 | 368043,000 | 8223147,000 | 528,164 |
| B-92 | 367971,000 | 8223165,000 | 530,047 |
| B-93 | 367897,000 | 8223180,000 | 532,516 |

| | | | |
|--------------|------------|-------------|---------|
| B-94 | 367942,000 | 8223360,000 | 533,243 |
| B-95 | 368039,000 | 8223379,000 | 532,429 |
| B-96 | 368118,000 | 8223379,000 | 531,279 |
| B-97 | 368053,000 | 8223467,000 | 531,342 |
| B-98 | 368065,000 | 8223632,000 | 531,494 |
| B-99 | 368131,000 | 8223721,000 | 529,817 |
| B-100 | 368120,000 | 8223800,000 | 530,718 |
| B-101 | 368152,000 | 8223800,000 | 529,054 |
| B-102 | 368203,000 | 8223809,000 | 526,726 |
| B-103 | 368172,000 | 8223908,000 | 528,824 |
| B-104 | 368138,000 | 8224039,000 | 532,315 |
| B-105 | 368175,000 | 8224122,000 | 531,442 |
| B-106 | 368183,000 | 8224269,000 | 532,001 |
| B-107 | 368205,000 | 8224322,000 | 530,989 |
| B-108 | 368212,000 | 8224438,000 | 528,486 |
| B-109 | 368209,000 | 8224517,000 | 525,975 |
| B-110 | 368314,000 | 8224490,000 | 524,449 |
| B-111 | 367957,000 | 8224205,000 | 531,595 |
| B-112 | 368016,000 | 8224136,000 | 532,501 |
| B-113 | 367952,000 | 8223689,000 | 536,589 |
| B-114 | 367833,000 | 8223926,000 | 534,866 |
| B-115 | 367755,000 | 8223982,000 | 532,286 |
| B-116 | 367803,000 | 8224105,000 | 531,031 |
| B-117 | 367665,000 | 8223863,000 | 529,674 |
| B-118 | 367688,000 | 8223793,000 | 529,759 |
| B-119 | 367626,000 | 8223786,000 | 529,730 |
| B-120 | 367708,000 | 8223698,000 | 529,631 |
| B-121 | 367758,000 | 8223642,000 | 530,576 |
| B-122 | 367975,000 | 8223849,000 | 532,712 |
| B-123 | 365800,000 | 8217414,000 | 585,922 |
| B-124 | 365615,000 | 8217444,000 | 593,599 |
| B-125 | 365649,000 | 8217482,000 | 593,135 |
| B-126 | 365811,000 | 8217455,000 | 587,663 |
| B-127 | 365839,000 | 8217377,000 | 583,927 |
| B-128 | 367224,000 | 8217212,000 | 583,482 |
| B-129 | 366238,000 | 8217150,000 | 588,459 |
| B-130 | 366286,000 | 8217213,000 | 587,424 |
| B-131 | 366272,000 | 8217835,000 | 575,932 |
| B-132 | 365800,000 | 8217415,000 | 585,835 |
| B-133 | 366033,000 | 8217929,000 | 585,943 |
| B-134 | 365993,000 | 8217924,000 | 586,798 |
| B-135 | 365940,000 | 8217943,000 | 590,736 |
| B-136 | 365771,000 | 8217619,000 | 587,909 |
| B-137 | 365768,000 | 8218310,000 | 608,699 |
| B-138 | 365710,000 | 8218323,000 | 606,543 |

| | | | |
|--------------|------------|-------------|---------|
| B-139 | 365663,000 | 8218325,000 | 605,014 |
| B-140 | 367653,000 | 8219020,000 | 571,307 |
| B-141 | 366222,000 | 8217868,000 | 577,203 |
| B-142 | 366242,000 | 8218012,000 | 593,376 |
| B-143 | 366383,000 | 8218110,000 | 593,301 |
| B-144 | 366452,000 | 8218031,000 | 589,373 |
| B-145 | 366306,000 | 8217914,000 | 588,863 |
| B-146 | 366396,000 | 8217920,000 | 585,980 |
| B-147 | 366227,000 | 8218095,000 | 581,950 |
| B-148 | 366190,000 | 8218812,000 | 573,120 |
| B-149 | 366199,000 | 8218587,000 | 580,998 |
| B-150 | 366180,000 | 8218504,000 | 583,189 |
| B-151 | 366135,000 | 8218511,000 | 580,313 |
| B-152 | 366160,000 | 8218618,000 | 579,020 |
| B-153 | 366429,000 | 8218774,000 | 573,414 |
| B-154 | 366582,000 | 8218767,000 | 571,313 |
| B-155 | 366623,000 | 8218770,000 | 571,143 |
| B-156 | 366732,000 | 8218882,000 | 566,474 |
| B-157 | 366442,000 | 8218689,000 | 576,198 |
| B-158 | 366404,000 | 8218668,000 | 576,122 |
| B-159 | 366685,000 | 8219151,000 | 543,839 |
| B-160 | 366653,000 | 8219106,000 | 552,964 |
| B-161 | 366705,000 | 8219222,000 | 548,420 |
| B-162 | 366720,000 | 8219276,000 | 545,128 |
| B-163 | 366502,000 | 8219223,000 | 559,224 |
| B-164 | 366459,000 | 8219146,000 | 563,455 |
| B-165 | 367324,000 | 8219081,000 | 557,649 |
| B-166 | 367358,000 | 8219017,000 | 557,042 |
| B-167 | 367449,000 | 8219031,000 | 557,424 |
| B-168 | 367362,000 | 8220683,000 | 538,130 |
| B-169 | 366686,000 | 8219151,000 | 542,191 |
| B-170 | 367710,000 | 8220355,000 | 544,875 |
| B-171 | 367490,000 | 8220457,000 | 542,314 |
| B-172 | 367695,000 | 8220514,000 | 545,944 |
| B-173 | 367657,000 | 8220648,000 | 546,016 |
| B-174 | 367741,000 | 8220622,000 | 546,383 |
| B-175 | 367872,000 | 8220509,000 | 549,855 |
| B-176 | 367802,000 | 8220450,000 | 548,705 |
| B-177 | 367820,000 | 8220385,000 | 549,594 |
| B-178 | 368248,000 | 8221695,000 | 520,524 |
| B-179 | 368213,000 | 8221640,000 | 521,166 |
| B-180 | 368177,000 | 8221615,000 | 521,458 |
| B-181 | 368084,000 | 8221820,000 | 520,216 |
| B-182 | 368027,000 | 8221785,000 | 522,141 |
| B-183 | 367945,000 | 8221735,000 | 525,073 |

| | | | |
|--------------|------------|-------------|---------|
| B-184 | 368068,000 | 8221753,000 | 525,552 |
| B-185 | 367836,000 | 8220858,000 | 540,486 |
| B-186 | 367771,000 | 8220885,000 | 539,818 |
| B-187 | 367636,000 | 8220832,000 | 539,972 |
| B-188 | 367687,000 | 8220804,000 | 541,989 |
| B-189 | 367759,000 | 8220755,000 | 542,776 |
| B-190 | 367817,000 | 8220725,000 | 544,287 |
| B-191 | 367860,000 | 8220780,000 | 544,483 |
| B-192 | 367887,000 | 8220165,000 | 553,860 |
| B-193 | 367860,000 | 8220247,000 | 552,196 |
| B-194 | 367764,000 | 8220154,000 | 552,108 |
| B-195 | 367797,000 | 8220137,000 | 552,782 |
| B-196 | 367872,000 | 8220105,000 | 554,796 |
| B-197 | 367844,000 | 8220032,000 | 554,033 |
| B-198 | 367792,000 | 8220042,000 | 554,223 |
| B-199 | 367772,000 | 8220004,000 | 553,685 |
| B-200 | 367659,000 | 8219866,000 | 554,327 |
| B-201 | 367632,000 | 8219781,000 | 555,861 |
| B-202 | 367672,000 | 8219680,000 | 558,055 |
| B-203 | 367830,000 | 8219681,000 | 560,949 |
| B-204 | 367322,000 | 8219083,000 | 555,330 |
| B-205 | 367879,000 | 8219960,000 | 557,051 |
| B-206 | 367321,000 | 8219624,000 | 551,958 |
| B-207 | 367350,000 | 8219545,000 | 553,610 |
| B-208 | 367301,000 | 8219477,000 | 554,739 |
| B-209 | 367193,000 | 8219499,000 | 553,023 |
| B-210 | 367344,000 | 8219031,000 | 558,905 |
| B-211 | 367442,000 | 8219852,000 | 551,725 |
| B-212 | 367773,000 | 8219403,000 | 567,452 |
| B-213 | 367690,000 | 8219530,000 | 565,796 |
| B-214 | 367532,000 | 8219393,000 | 565,961 |
| B-215 | 367571,000 | 8219355,000 | 567,758 |
| B-216 | 367624,000 | 8219327,000 | 568,736 |
| B-217 | 367722,000 | 8219285,000 | 570,391 |
| B-218 | 367003,000 | 8218176,000 | 572,376 |
| B-219 | 367593,000 | 8219074,000 | 568,970 |
| B-220 | 367871,000 | 8218958,000 | 569,530 |
| B-221 | 367901,000 | 8219018,000 | 569,841 |
| B-222 | 367881,000 | 8219110,000 | 568,190 |
| B-223 | 367732,000 | 8218982,000 | 569,486 |
| B-224 | 367438,000 | 8219134,000 | 566,734 |
| B-225 | 367630,000 | 8219002,000 | 570,799 |
| B-226 | 367669,000 | 8218871,000 | 568,452 |
| B-227 | 367729,000 | 8218793,000 | 570,868 |
| B-228 | 367787,000 | 8218743,000 | 571,565 |

| | | | |
|-------|------------|-------------|---------|
| B-229 | 367806,000 | 8218843,000 | 571,031 |
| B-230 | 367745,000 | 8221968,000 | 529,469 |
| B-231 | 367790,000 | 8221985,000 | 528,407 |
| B-231 | 367018,000 | 8221219,000 | 542,927 |
| B-232 | 367787,000 | 8222004,000 | 529,218 |
| B-233 | 367801,000 | 8222023,000 | 528,838 |
| B-234 | 367831,000 | 8222023,000 | 527,485 |
| B-235 | 367516,000 | 8221983,000 | 539,728 |
| B-236 | 367335,000 | 8222091,000 | 544,121 |
| B-237 | 367898,000 | 8217787,000 | 575,439 |
| B-239 | 368378,000 | 8223247,000 | 522,718 |
| B-240 | 368425,000 | 8223293,000 | 523,470 |
| B-241 | 368521,000 | 8223155,000 | 527,418 |
| B-242 | 368945,000 | 8224278,000 | 523,629 |
| B-243 | 368934,000 | 8224455,000 | 523,697 |
| B-244 | 368647,000 | 8225620,000 | 506,297 |
| B-245 | 369137,000 | 8225910,000 | 504,148 |
| B-246 | 369171,000 | 8226223,000 | 502,475 |
| B-247 | 369418,000 | 8225836,000 | 501,337 |
| B-248 | 369421,000 | 8225746,000 | 502,480 |
| B-249 | 369447,000 | 8225577,000 | 502,913 |
| B-250 | 369130,000 | 8225548,000 | 505,225 |
| B-251 | 367203,000 | 8221657,000 | 526,582 |
| B-252 | 367320,000 | 8221713,000 | 525,288 |
| B-253 | 367272,000 | 8221851,000 | 530,058 |
| B-254 | 367187,000 | 8221760,000 | 532,141 |
| B-255 | 366703,000 | 8222077,000 | 542,248 |
| B-256 | 366606,000 | 8222004,000 | 545,272 |
| B-257 | 366555,000 | 8221852,000 | 549,040 |
| B-258 | 366586,000 | 8221595,000 | 553,405 |
| B-259 | 366591,000 | 8221597,000 | 553,243 |
| B-260 | 366605,000 | 8221428,000 | 556,453 |
| B-261 | 366664,000 | 8221469,000 | 555,260 |
| B-262 | 366831,000 | 8221562,000 | 550,516 |
| B-263 | 367009,000 | 8221593,000 | 547,138 |
| B-264 | 366931,000 | 8221514,000 | 550,126 |
| B-265 | 366874,000 | 8221384,000 | 551,560 |
| B-266 | 366823,000 | 8221365,000 | 553,675 |
| B-267 | 366689,000 | 8221357,000 | 558,306 |
| B-268 | 366681,000 | 8221241,000 | 558,607 |
| B-269 | 366682,000 | 8221241,000 | 558,547 |
| B-270 | 366786,000 | 8221236,000 | 554,569 |
| B-271 | 366782,000 | 8221207,000 | 554,542 |
| B-272 | 366831,000 | 8221220,000 | 551,742 |
| B-273 | 366794,000 | 8221160,000 | 554,763 |

| | | | |
|--------------|------------|-------------|---------|
| B-274 | 366805,000 | 8221107,000 | 549,786 |
| B-275 | 366878,000 | 8221126,000 | 547,154 |
| B-276 | 366865,000 | 8221163,000 | 550,403 |
| B-277 | 366935,000 | 8221091,000 | 543,216 |
| B-278 | 366928,000 | 8220978,000 | 542,036 |
| B-279 | 366994,000 | 8221072,000 | 540,211 |
| B-280 | 367067,000 | 8221219,000 | 539,503 |
| B-281 | 367460,000 | 8218266,000 | 564,846 |
| B-282 | 366938,000 | 8221226,000 | 548,685 |
| B-283 | 366878,000 | 8221282,000 | 551,092 |
| B-284 | 366917,000 | 8221295,000 | 549,130 |
| B-285 | 366951,000 | 8221333,000 | 546,865 |
| B-286 | 367056,000 | 8221323,000 | 541,307 |
| B-287 | 367081,000 | 8221393,000 | 541,769 |
| B-288 | 367121,000 | 8221463,000 | 539,502 |
| B-289 | 367162,000 | 8221558,000 | 539,695 |
| B-290 | 366708,000 | 8217314,000 | 585,800 |
| B-291 | 366696,000 | 8217386,000 | 583,788 |
| B-292 | 366699,000 | 8217418,000 | 583,452 |
| B-293 | 366661,000 | 8217513,000 | 578,354 |
| B-294 | 366597,000 | 8217498,000 | 576,736 |
| B-295 | 366507,000 | 8217368,000 | 577,802 |
| B-296 | 366668,000 | 8217205,000 | 587,388 |
| B-297 | 366698,000 | 8217187,000 | 588,778 |
| B-298 | 366770,000 | 8216584,000 | 596,886 |
| B-299 | 366863,000 | 8216543,000 | 601,586 |
| B-300 | 367086,000 | 8216555,000 | 603,080 |
| B-301 | 367093,000 | 8216667,000 | 600,652 |
| B-302 | 367071,000 | 8216699,000 | 600,967 |
| B-303 | 367154,000 | 8216646,000 | 599,089 |
| B-304 | 367209,000 | 8216477,000 | 603,818 |
| B-306 | 367253,000 | 8216427,000 | 608,037 |
| B-306 | 367304,000 | 8216371,000 | 613,378 |
| B-307 | 367323,000 | 8216426,000 | 611,242 |
| B-308 | 367310,000 | 8216510,000 | 606,227 |
| B-309 | 367199,000 | 8216563,000 | 602,910 |
| B-310 | 366948,000 | 8216905,000 | 599,652 |
| B-311 | 366912,000 | 8216970,000 | 597,770 |
| B-312 | 367038,000 | 8217019,000 | 598,529 |
| B-313 | 366943,000 | 8217307,000 | 595,718 |
| B-314 | 366922,000 | 8217335,000 | 593,761 |
| B-315 | 366949,000 | 8217342,000 | 594,451 |
| B-316 | 366850,000 | 8217510,000 | 591,631 |
| B-317 | 366761,000 | 8217639,000 | 584,921 |
| B-318 | 366709,000 | 8217667,000 | 581,620 |

| | | | |
|--------------|------------|-------------|---------|
| B-319 | 367472,000 | 8218183,000 | 563,959 |
| B-320 | 367355,000 | 8218084,000 | 571,182 |
| B-321 | 367526,000 | 8217964,000 | 568,992 |
| B-322 | 367447,000 | 8217845,000 | 572,490 |
| B-323 | 367535,000 | 8217832,000 | 570,518 |
| B-324 | 367762,000 | 8217790,000 | 570,323 |
| B-325 | 367860,000 | 8217646,000 | 575,424 |
| B-326 | 367822,000 | 8217724,000 | 572,328 |
| B-327 | 367006,000 | 8218311,000 | 564,846 |
| B-328 | 367942,000 | 8217796,000 | 577,004 |
| B-329 | 367960,000 | 8217688,000 | 574,761 |
| B-330 | 367994,000 | 8217632,000 | 578,602 |
| B-331 | 368048,000 | 8217592,000 | 581,247 |
| B-332 | 368080,000 | 8217530,000 | 584,672 |
| B-333 | 368080,000 | 8217458,000 | 586,225 |
| B-334 | 367989,000 | 8217522,000 | 582,644 |
| B-335 | 367925,000 | 8217582,000 | 578,556 |
| B-336 | 368162,000 | 8217367,000 | 589,741 |
| B-337 | 368283,000 | 8217467,000 | 591,224 |
| B-338 | 368364,000 | 8217464,000 | 593,363 |
| B-339 | 368309,000 | 8217314,000 | 595,315 |
| B-340 | 368266,000 | 8217321,000 | 594,017 |
| B-341 | 368377,000 | 8217214,000 | 599,890 |
| B-342 | 368431,000 | 8217146,000 | 603,866 |
| B-343 | 368558,000 | 8217130,000 | 601,964 |
| B-344 | 368575,000 | 8217205,000 | 598,474 |
| B-345 | 368568,000 | 8217245,000 | 596,509 |
| B-346 | 368550,000 | 8217236,000 | 597,375 |
| B-347 | 368078,000 | 8217034,000 | 599,404 |
| B-348 | 368258,000 | 8216840,000 | 617,614 |
| B-349 | 367805,000 | 8217464,000 | 578,523 |
| B-350 | 367783,000 | 8217453,000 | 578,636 |
| B-351 | 367796,000 | 8217301,000 | 582,699 |
| B-352 | 367838,000 | 8217352,000 | 581,625 |
| B-353 | 367863,000 | 8217337,000 | 581,016 |
| B-354 | 367967,000 | 8216968,000 | 594,187 |
| B-355 | 368020,000 | 8216986,000 | 596,647 |
| B-356 | 367670,000 | 8216829,000 | 597,614 |
| B-357 | 367631,000 | 8216797,000 | 595,431 |
| B-358 | 367715,000 | 8216716,000 | 601,087 |
| B-359 | 367772,000 | 8216664,000 | 606,110 |
| B-360 | 367845,000 | 8216486,000 | 618,158 |
| B-361 | 367812,000 | 8216508,000 | 613,701 |
| B-362 | 367774,000 | 8216560,000 | 609,015 |
| B-363 | 367627,000 | 8216565,000 | 604,196 |

| | | | |
|--------------|------------|-------------|---------|
| B-364 | 367603,000 | 8216487,000 | 610,355 |
| B-365 | 367592,000 | 8216409,000 | 616,890 |
| B-366 | 367592,000 | 8216323,000 | 624,909 |
| B-367 | 367536,000 | 8216332,000 | 624,610 |
| B-368 | 367489,000 | 8216356,000 | 621,456 |
| B-369 | 367432,000 | 8216430,000 | 614,667 |
| B-370 | 367400,000 | 8216507,000 | 609,163 |
| B-371 | 367366,000 | 8216546,000 | 605,716 |
| B-372 | 367899,000 | 8216658,000 | 607,034 |
| B-373 | 367865,000 | 8216600,000 | 612,363 |
| B-374 | 367875,000 | 8216565,000 | 615,112 |
| B-375 | 362231,000 | 8214776,000 | 908,707 |
| B-376 | 362329,000 | 8214792,000 | 906,850 |
| B-377 | 362399,000 | 8214805,000 | 905,816 |
| B-378 | 362429,000 | 8214763,000 | 903,026 |
| B-379 | 362467,000 | 8214731,000 | 900,852 |
| B-380 | 362489,000 | 8214710,000 | 897,809 |
| B-381 | 362516,000 | 8214689,000 | 895,503 |
| B-382 | 362505,000 | 8214660,000 | 895,269 |
| B-383 | 362531,000 | 8214642,000 | 892,022 |
| B-384 | 362549,000 | 8214660,000 | 891,228 |
| B-385 | 362565,000 | 8214626,000 | 888,306 |
| B-386 | 362576,000 | 8214647,000 | 888,223 |
| B-387 | 362638,000 | 8214668,000 | 882,718 |
| B-388 | 362624,000 | 8214709,000 | 888,135 |
| B-389 | 362629,000 | 8214767,000 | 890,998 |
| B-390 | 362648,000 | 8214795,000 | 890,351 |
| B-391 | 362662,000 | 8214843,000 | 893,016 |
| B-392 | 362594,000 | 8214822,000 | 896,518 |
| B-393 | 362556,000 | 8214817,000 | 898,988 |
| B-394 | 362519,000 | 8214834,000 | 901,583 |
| B-395 | 362515,000 | 8214781,000 | 899,261 |
| B-396 | 362541,000 | 8214760,000 | 896,376 |
| B-397 | 362693,000 | 8214862,000 | 895,330 |
| B-398 | 362689,000 | 8214774,000 | 891,162 |
| B-399 | 362685,000 | 8214713,000 | 887,124 |
| B-400 | 362694,000 | 8214641,000 | 882,573 |
| B-401 | 362804,000 | 8214682,000 | 889,258 |
| B-402 | 362777,000 | 8214745,000 | 893,209 |
| B-403 | 362956,000 | 8214864,000 | 896,166 |
| B-404 | 367158,000 | 8216600,000 | 600,189 |
| B-405 | 363091,000 | 8214936,000 | 890,455 |
| B-406 | 363158,000 | 8214941,000 | 886,990 |
| B-407 | 363097,000 | 8214874,000 | 892,775 |
| B-408 | 363158,000 | 8214799,000 | 889,282 |

| | | | |
|--------------|------------|-------------|---------|
| B-409 | 363004,000 | 8214657,000 | 888,414 |
| B-410 | 362980,000 | 8214614,000 | 885,699 |
| B-411 | 362455,000 | 8214481,000 | 894,477 |
| B-412 | 362481,000 | 8214452,000 | 891,708 |
| B-413 | 362524,000 | 8214414,000 | 886,239 |
| B-414 | 362383,000 | 8214523,000 | 899,563 |
| B-415 | 362348,000 | 8214343,000 | 892,447 |
| B-416 | 362284,000 | 8214342,000 | 894,722 |
| B-417 | 362133,000 | 8214245,000 | 894,993 |
| B-418 | 362066,000 | 8214234,000 | 897,942 |
| B-419 | 362013,000 | 8214265,000 | 902,229 |
| B-420 | 361951,000 | 8214225,000 | 899,822 |
| B-421 | 361924,000 | 8214158,000 | 902,924 |
| B-422 | 361904,000 | 8214161,000 | 904,049 |
| B-423 | 361905,000 | 8214191,000 | 902,550 |
| B-424 | 361878,000 | 8214214,000 | 904,680 |
| B-425 | 361879,000 | 8214236,000 | 904,170 |
| B-426 | 361841,000 | 8214248,000 | 908,491 |
| B-427 | 361842,000 | 8214260,000 | 908,197 |
| B-428 | 361745,000 | 8213728,000 | 909,901 |
| B-429 | 361821,000 | 8213753,000 | 907,231 |
| B-430 | 361797,000 | 8214017,000 | 909,465 |
| B-431 | 361930,000 | 8213944,000 | 905,503 |
| B-432 | 361961,000 | 8213898,000 | 903,599 |
| B-433 | 362005,000 | 8213927,000 | 900,786 |
| B-434 | 362182,000 | 8213875,000 | 886,178 |
| B-435 | 362252,000 | 8213876,000 | 879,386 |
| B-436 | 362308,000 | 8213881,000 | 874,952 |
| B-437 | 362243,000 | 8213843,000 | 880,443 |
| B-438 | 362211,000 | 8213821,000 | 883,019 |
| B-439 | 362172,000 | 8213807,000 | 886,599 |
| B-440 | 362349,000 | 8214410,000 | 896,469 |
| B-441 | 362321,000 | 8214516,000 | 902,221 |
| B-442 | 362311,000 | 8214597,000 | 904,539 |

As bacias de captação de águas pluviais (barraginhas) foram executadas em paralelo a construção dos terraços.



Figura 9: Barraginhas executadas nos terraços;

c) Escavação de Terraços em Nível

O trabalho de construção de terraços nas áreas de RC – Recuperação e Conservação com terraceamento, consistiu em escavação e aterro lateral nos locais locados pela topografia, com uso de motoniveladora.

Os terraços foram construídos levando em consideração, no que tange espaçamento entre curvas, comprimento e quantidade, a necessidade do local. Para melhorar a funcionalidade dos terraços foram construídas barraginhas nos locais com maior volume de escoamento da água.

Foram construídas 23 RAD's dentre os quais 10 executadas em locais sugeridos no TR e 13 em locais alternativos. As áreas previstas não absorveram todo o quantitativo de curvas de nível necessárias, já que alguns locais já estavam revegetadas e/ou em processo de recuperação. Os quantitativos de terraços excedentes, foram transferidos para outros locais com processos erosivos avançados e sem presença vegetal.

Na tabela 03 podemos verificar as coordenadas das curvas em nível locadas nas áreas de RAD, no formato UTM, fuso 23 L, Datum WGS 84.

As curvas estão identificadas com códigos iniciados com a letra "C", sucedida do número sequencial da curva e do número de cada estaca locada na curva. A tabela contém quatro colunas, sendo a primeira a descrição do ponto, a segunda a coordenada "X", a terceira a coordenada "Y" e a quarta a cota "Z".

Tabela 3: Planilha de coordenadas das RAD's;

Projeto Uruana de Minas - MG

Técnico Agrimensor: Erick N. Costa

Locação de Terraços - RAD 01

| NOME | ESTE | NORTE | ALTITUDE |
|-----------------|-------------|---------------|-----------------|
| CURVA 01 | | | |
| RAD01-C01-00 | 368.919,440 | 8.222.012,910 | 542,570 |
| RAD01-C01-01 | 368.929,370 | 8.222.022,630 | 542,550 |
| RAD01-C01-02 | 368.934,490 | 8.222.033,660 | 542,560 |
| RAD01-C01-03 | 368.940,410 | 8.222.045,600 | 542,550 |
| RAD01-C01-04 | 368.948,330 | 8.222.056,740 | 542,560 |
| RAD01-C01-05 | 368.960,480 | 8.222.068,040 | 542,570 |
| RAD01-C01-06 | 368.969,080 | 8.222.077,100 | 542,590 |
| RAD01-C01-07 | 368.977,040 | 8.222.086,840 | 542,570 |
| RAD01-C01-08 | 368.985,290 | 8.222.097,580 | 542,570 |
| RAD01-C01-09 | 368.993,350 | 8.222.108,190 | 542,580 |
| RAD01-C01-10 | 369.002,550 | 8.222.121,570 | 542,530 |
| CURVA 02 | | | |
| RAD01-C02-00 | 368.831,510 | 8.222.040,290 | 540,890 |
| RAD01-C02-01 | 368.834,060 | 8.222.054,010 | 540,860 |
| RAD01-C02-02 | 368.844,890 | 8.222.068,910 | 540,880 |
| RAD01-C02-03 | 368.852,020 | 8.222.081,930 | 540,860 |
| RAD01-C02-04 | 368.862,580 | 8.222.092,140 | 540,890 |
| RAD01-C02-05 | 368.872,410 | 8.222.102,890 | 540,910 |
| RAD01-C02-06 | 368.878,690 | 8.222.116,510 | 540,930 |
| RAD01-C02-07 | 368.888,310 | 8.222.127,210 | 540,910 |
| RAD01-C02-08 | 368.895,900 | 8.222.138,600 | 540,910 |
| CURVA 03 | | | |
| RAD01-C03-00 | 368.757,650 | 8.222.066,260 | 539,140 |
| RAD01-C03-01 | 368.765,210 | 8.222.079,490 | 539,120 |
| RAD01-C03-02 | 368.772,670 | 8.222.091,620 | 539,110 |
| RAD01-C03-03 | 368.782,800 | 8.222.103,170 | 539,160 |
| RAD01-C03-04 | 368.792,500 | 8.222.113,400 | 539,120 |
| RAD01-C03-05 | 368.800,370 | 8.222.125,790 | 539,160 |
| RAD01-C03-06 | 368.806,170 | 8.222.140,360 | 539,140 |
| RAD01-C03-07 | 368.815,080 | 8.222.150,720 | 539,120 |
| CURVA 04 | | | |
| RAD01-C04-00 | 368.690,090 | 8.222.088,570 | 537,140 |
| RAD01-C04-01 | 368.697,450 | 8.222.100,940 | 537,140 |
| RAD01-C04-02 | 368.703,300 | 8.222.112,530 | 537,160 |
| RAD01-C04-03 | 368.714,290 | 8.222.122,530 | 537,170 |
| RAD01-C04-04 | 368.721,100 | 8.222.133,180 | 537,140 |
| RAD01-C04-05 | 368.729,497 | 8.222.143,183 | 537,150 |
| RAD01-C04-06 | 368.741,063 | 8.222.153,570 | 537,140 |

| CURVA 05 | | | |
|------------------------------|-------------|---------------|----------|
| NOME | ESTE | NORTE | ALTITUDE |
| RAD01-C05-00 | 368.631,900 | 8.222.111,470 | 535,140 |
| RAD01-C05-01 | 368.637,740 | 8.222.121,800 | 535,130 |
| RAD01-C05-02 | 368.649,570 | 8.222.131,600 | 535,150 |
| RAD01-C05-03 | 368.659,750 | 8.222.141,330 | 535,150 |
| RAD01-C05-04 | 368.669,350 | 8.222.152,260 | 535,170 |
| RAD01-C05-05 | 368.677,420 | 8.222.163,920 | 535,160 |
| Locação de Terraços - RAD 02 | | | |
| CURVA 01 | | | |
| RAD02-C01-00 | 367.914,780 | 8.220.807,140 | 554,910 |
| RAD02-C01-01 | 367.904,930 | 8.220.799,950 | 554,920 |
| RAD02-C01-02 | 367.895,230 | 8.220.792,420 | 554,930 |
| RAD02-C01-03 | 367.885,750 | 8.220.785,780 | 554,910 |
| RAD02-C01-04 | 367.876,000 | 8.220.778,090 | 554,900 |
| RAD02-C01-05 | 367.866,480 | 8.220.770,860 | 554,900 |
| RAD02-C01-06 | 367.856,670 | 8.220.760,460 | 554,920 |
| RAD02-C01-07 | 367.845,870 | 8.220.752,300 | 554,920 |
| CURVA 02 | | | |
| RAD02-C02-00 | 367.910,750 | 8.220.840,620 | 554,250 |
| RAD02-C02-01 | 367.898,930 | 8.220.834,160 | 554,230 |
| RAD02-C02-02 | 367.890,510 | 8.220.825,580 | 554,250 |
| RAD02-C02-03 | 367.881,880 | 8.220.816,720 | 554,250 |
| RAD02-C02-04 | 367.872,000 | 8.220.808,010 | 554,260 |
| RAD02-C02-05 | 367.862,390 | 8.220.800,940 | 554,260 |
| RAD02-C02-06 | 367.852,610 | 8.220.793,860 | 554,240 |
| RAD02-C02-07 | 367.842,990 | 8.220.786,420 | 554,240 |
| RAD02-C02-08 | 367.831,490 | 8.220.780,270 | 554,230 |
| RAD02-C02-09 | 367.820,380 | 8.220.772,980 | 554,250 |
| CURVA 03 | | | |
| RAD02-C03-00 | 367.913,730 | 8.220.887,980 | 553,510 |
| RAD02-C03-01 | 367.909,080 | 8.220.877,630 | 553,500 |
| RAD02-C03-02 | 367.903,780 | 8.220.865,540 | 553,530 |
| RAD02-C03-03 | 367.883,790 | 8.220.863,810 | 553,500 |
| RAD02-C03-04 | 367.875,130 | 8.220.856,150 | 553,510 |
| RAD02-C03-05 | 367.866,100 | 8.220.847,360 | 553,520 |
| RAD02-C03-06 | 367.856,980 | 8.220.839,550 | 553,510 |
| RAD02-C03-07 | 367.848,560 | 8.220.830,750 | 553,520 |
| RAD02-C03-08 | 367.839,650 | 8.220.822,240 | 553,540 |
| RAD02-C03-09 | 367.827,810 | 8.220.816,720 | 553,490 |
| RAD02-C03-10 | 367.815,760 | 8.220.811,870 | 553,490 |
| RAD02-C03-11 | 367.805,710 | 8.220.805,330 | 553,500 |
| RAD02-C03-12 | 367.795,860 | 8.220.797,320 | 553,540 |
| RAD02-C03-13 | 367.785,150 | 8.220.790,090 | 553,520 |

| CURVA 04 | | | |
|--------------|-------------|---------------|---------|
| RAD02-C04-00 | 367.881,040 | 8.220.905,610 | 552,830 |
| RAD02-C04-01 | 367.872,710 | 8.220.897,850 | 552,830 |
| RAD02-C04-02 | 367.862,810 | 8.220.888,670 | 552,820 |
| RAD02-C04-03 | 367.853,990 | 8.220.879,990 | 552,840 |
| RAD02-C04-04 | 367.844,600 | 8.220.871,360 | 552,820 |
| RAD02-C04-05 | 367.835,610 | 8.220.863,570 | 552,820 |
| RAD02-C04-06 | 367.825,340 | 8.220.856,070 | 552,840 |
| RAD02-C04-07 | 367.816,050 | 8.220.847,650 | 552,810 |
| RAD02-C04-08 | 367.804,940 | 8.220.840,960 | 552,830 |
| RAD02-C04-09 | 367.793,660 | 8.220.834,500 | 552,820 |
| RAD02-C04-10 | 367.783,850 | 8.220.825,900 | 552,820 |
| RAD02-C04-11 | 367.770,990 | 8.220.820,810 | 552,840 |
| RAD02-C04-12 | 367.761,540 | 8.220.815,080 | 552,840 |
| RAD02-C04-13 | 367.750,180 | 8.220.808,800 | 552,840 |
| CURVA 05 | | | |
| RAD02-C05-00 | 367.846,290 | 8.220.923,380 | 552,170 |
| RAD02-C05-01 | 367.835,700 | 8.220.915,460 | 552,180 |
| RAD02-C05-02 | 367.826,760 | 8.220.903,490 | 552,160 |
| RAD02-C05-03 | 367.817,200 | 8.220.894,640 | 552,150 |
| RAD02-C05-04 | 367.808,640 | 8.220.887,010 | 552,160 |
| RAD02-C05-05 | 367.798,220 | 8.220.879,370 | 552,150 |
| RAD02-C05-06 | 367.789,050 | 8.220.871,470 | 552,170 |
| RAD02-C05-07 | 367.778,940 | 8.220.864,340 | 552,180 |
| RAD02-C05-08 | 367.767,680 | 8.220.858,770 | 552,160 |
| RAD02-C05-09 | 367.756,170 | 8.220.851,170 | 552,170 |
| RAD02-C05-10 | 367.744,560 | 8.220.843,870 | 552,180 |
| RAD02-C05-11 | 367.733,600 | 8.220.838,050 | 552,190 |
| RAD02-C05-12 | 367.723,040 | 8.220.832,320 | 552,170 |
| RAD02-C05-13 | 367.711,550 | 8.220.826,350 | 552,170 |
| CURVA 06 | | | |
| RAD02-C06-00 | 367.809,690 | 8.220.936,800 | 551,510 |
| RAD02-C06-01 | 367.800,770 | 8.220.925,190 | 551,510 |
| RAD02-C06-02 | 367.792,710 | 8.220.915,630 | 551,510 |
| RAD02-C06-03 | 367.781,950 | 8.220.909,120 | 551,530 |
| RAD02-C06-04 | 367.772,940 | 8.220.901,620 | 551,500 |
| RAD02-C06-05 | 367.762,200 | 8.220.893,830 | 551,500 |
| RAD02-C06-06 | 367.751,360 | 8.220.887,270 | 551,530 |
| RAD02-C06-07 | 367.740,660 | 8.220.880,770 | 551,510 |
| RAD02-C06-08 | 367.729,520 | 8.220.874,290 | 551,500 |
| RAD02-C06-09 | 367.718,160 | 8.220.866,780 | 551,540 |
| RAD02-C06-10 | 367.706,580 | 8.220.860,590 | 551,510 |
| RAD02-C06-11 | 367.694,680 | 8.220.854,570 | 551,500 |
| RAD02-C06-12 | 367.683,130 | 8.220.848,270 | 551,530 |
| CURVA 07 | | | |

| | | | |
|--------------|-------------|---------------|---------|
| RAD02-C07-00 | 367.780,230 | 8.220.956,620 | 550,900 |
| RAD02-C07-01 | 367.771,390 | 8.220.938,220 | 550,900 |
| RAD02-C07-02 | 367.762,090 | 8.220.928,680 | 550,920 |
| RAD02-C07-03 | 367.751,280 | 8.220.919,180 | 550,890 |
| RAD02-C07-04 | 367.740,440 | 8.220.910,950 | 550,920 |
| RAD02-C07-05 | 367.729,150 | 8.220.904,470 | 550,910 |
| RAD02-C07-06 | 367.716,950 | 8.220.898,670 | 550,900 |
| RAD02-C07-07 | 367.707,050 | 8.220.890,720 | 550,890 |
| RAD02-C07-08 | 367.695,630 | 8.220.884,610 | 550,900 |
| RAD02-C07-09 | 367.685,700 | 8.220.877,610 | 550,920 |
| RAD02-C07-10 | 367.669,070 | 8.220.873,740 | 550,910 |
| RAD02-C07-11 | 367.658,190 | 8.220.866,590 | 550,910 |
| RAD02-C07-12 | 367.651,190 | 8.220.857,730 | 550,920 |

Locação de Terraços - RAD 03

| NOME | ESTE | NORTE | ALTITUDE |
|--------------|-------------|---------------|----------|
| CURVA 01 | | | |
| RAD03-C01-00 | 367.872,210 | 8.220.469,070 | 549,730 |
| RAD03-C01-01 | 367.870,260 | 8.220.484,040 | 549,730 |
| RAD03-C01-02 | 367.879,790 | 8.220.499,410 | 549,740 |
| RAD03-C01-03 | 367.883,040 | 8.220.513,650 | 549,720 |
| RAD03-C01-04 | 367.887,940 | 8.220.525,720 | 549,730 |
| RAD03-C01-05 | 367.892,380 | 8.220.542,590 | 549,740 |
| RAD03-C01-06 | 367.896,090 | 8.220.556,310 | 549,730 |
| RAD03-C01-07 | 367.902,700 | 8.220.570,490 | 549,750 |
| RAD03-C01-08 | 367.909,720 | 8.220.596,490 | 549,710 |
| RAD03-C01-09 | 367.864,960 | 8.220.445,870 | 549,750 |
| RAD03-C01-10 | 367.857,210 | 8.220.433,440 | 549,740 |
| RAD03-C01-11 | 367.850,890 | 8.220.422,120 | 549,710 |
| RAD03-C01-12 | 367.846,300 | 8.220.408,690 | 549,730 |
| RAD03-C01-13 | 367.841,470 | 8.220.397,670 | 549,730 |
| RAD03-C01-14 | 367.837,950 | 8.220.388,320 | 549,770 |
| CURVA 02 | | | |
| RAD03-C02-00 | 367.828,520 | 8.220.486,320 | 548,390 |
| RAD03-C02-01 | 367.831,720 | 8.220.497,380 | 548,400 |
| RAD03-C02-02 | 367.832,490 | 8.220.507,750 | 548,390 |
| RAD03-C02-03 | 367.831,360 | 8.220.519,310 | 548,410 |
| RAD03-C02-04 | 367.833,830 | 8.220.529,650 | 548,370 |
| RAD03-C02-05 | 367.835,150 | 8.220.540,780 | 548,410 |
| RAD03-C02-06 | 367.835,660 | 8.220.551,760 | 548,410 |
| RAD03-C02-07 | 367.833,560 | 8.220.564,120 | 548,400 |
| RAD03-C02-08 | 367.832,870 | 8.220.575,770 | 548,410 |
| RAD03-C02-09 | 367.833,070 | 8.220.587,030 | 548,380 |
| RAD03-C02-10 | 367.834,680 | 8.220.598,290 | 548,380 |
| RAD03-C02-11 | 367.838,820 | 8.220.608,970 | 548,400 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD03-C02-12 | 367.839,530 | 8.220.620,520 | 548,370 |
| RAD03-C02-13 | 367.843,420 | 8.220.631,390 | 548,370 |
| RAD03-C02-14 | 367.849,960 | 8.220.640,490 | 548,390 |
| RAD03-C02-15 | 367.855,700 | 8.220.652,410 | 548,380 |
| CURVA 03 | | | |
| RAD03-C03-00 | 367.790,850 | 8.220.506,920 | 547,000 |
| RAD03-C03-01 | 367.789,180 | 8.220.521,560 | 547,010 |
| RAD03-C03-02 | 367.783,620 | 8.220.533,910 | 546,990 |
| RAD03-C03-03 | 367.776,840 | 8.220.544,760 | 547,020 |
| RAD03-C03-04 | 367.773,180 | 8.220.556,870 | 547,000 |
| RAD03-C03-05 | 367.764,770 | 8.220.570,980 | 547,010 |
| RAD03-C03-06 | 367.759,110 | 8.220.582,050 | 547,020 |
| RAD03-C03-07 | 367.745,420 | 8.220.594,090 | 547,010 |
| RAD03-C03-08 | 367.739,040 | 8.220.604,300 | 546,990 |
| RAD03-C03-09 | 367.741,860 | 8.220.617,760 | 547,010 |
| RAD03-C03-10 | 367.743,910 | 8.220.629,980 | 547,000 |
| RAD03-C03-11 | 367.747,820 | 8.220.644,070 | 547,000 |
| RAD03-C03-12 | 367.754,190 | 8.220.656,150 | 547,010 |
| RAD03-C03-13 | 367.761,610 | 8.220.667,360 | 546,990 |
| RAD03-C03-14 | 367.769,760 | 8.220.677,050 | 546,980 |
| RAD03-C03-15 | 367.779,680 | 8.220.685,520 | 547,010 |
| CURVA 04 | | | |
| RAD03-C04-00 | 367.730,090 | 8.220.550,350 | 546,230 |
| RAD03-C04-01 | 367.722,430 | 8.220.564,120 | 546,250 |
| RAD03-C04-02 | 367.715,770 | 8.220.573,510 | 546,240 |
| RAD03-C04-03 | 367.706,050 | 8.220.583,750 | 546,250 |
| RAD03-C04-04 | 367.697,320 | 8.220.590,850 | 546,240 |
| RAD03-C04-05 | 367.686,080 | 8.220.616,480 | 546,230 |
| RAD03-C04-06 | 367.682,580 | 8.220.626,980 | 546,210 |
| RAD03-C04-07 | 367.678,480 | 8.220.638,130 | 546,230 |
| RAD03-C04-08 | 367.685,460 | 8.220.649,270 | 546,240 |
| RAD03-C04-09 | 367.690,670 | 8.220.660,540 | 546,200 |
| RAD03-C04-10 | 367.696,680 | 8.220.670,140 | 546,210 |
| RAD03-C04-11 | 367.700,790 | 8.220.680,770 | 546,230 |
| RAD03-C04-12 | 367.699,940 | 8.220.691,410 | 546,230 |
| CURVA 05 | | | |
| RAD03-C05-00 | 367.676,270 | 8.220.579,810 | 545,780 |
| RAD03-C05-01 | 367.668,390 | 8.220.590,680 | 545,780 |
| RAD03-C05-02 | 367.661,230 | 8.220.599,140 | 545,760 |
| RAD03-C05-03 | 367.662,070 | 8.220.612,640 | 545,790 |
| RAD03-C05-04 | 367.651,530 | 8.220.615,860 | 545,770 |
| RAD03-C05-05 | 367.655,430 | 8.220.627,340 | 545,760 |
| RAD03-C05-06 | 367.661,570 | 8.220.636,390 | 545,800 |
| RAD03-C05-07 | 367.664,830 | 8.220.651,570 | 545,790 |
| RAD03-C05-08 | 367.666,180 | 8.220.663,190 | 545,760 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD03-C05-09 | 367.669,260 | 8.220.677,150 | 545,780 |
| RAD03-C05-10 | 367.673,370 | 8.220.687,590 | 545,780 |
| RAD03-C05-11 | 367.679,890 | 8.220.697,880 | 545,740 |

Locação de Terraços - RAD 04

| NOME | ESTE | NORTE | ALTITUDE |
|--------------|-------------|---------------|----------|
| CURVA 01 | | | |
| RAD04-C01-00 | 367.764,770 | 8.219.691,940 | 561,780 |
| RAD04-C01-01 | 367.775,770 | 8.219.693,550 | 561,780 |
| RAD04-C01-02 | 367.787,890 | 8.219.696,880 | 561,780 |
| RAD04-C01-03 | 367.799,050 | 8.219.699,680 | 561,790 |
| RAD04-C01-04 | 367.812,050 | 8.219.702,170 | 561,770 |
| RAD04-C01-05 | 367.823,860 | 8.219.706,070 | 561,770 |
| RAD04-C01-06 | 367.834,540 | 8.219.711,500 | 561,780 |
| RAD04-C01-07 | 367.847,460 | 8.219.714,450 | 561,790 |
| RAD04-C01-08 | 367.858,350 | 8.219.719,910 | 561,790 |
| RAD04-C01-09 | 367.869,010 | 8.219.725,610 | 561,760 |
| RAD04-C01-10 | 367.880,190 | 8.219.731,940 | 561,770 |
| RAD04-C01-11 | 367.890,850 | 8.219.736,980 | 561,780 |
| RAD04-C01-12 | 367.903,390 | 8.219.741,440 | 561,780 |
| CURVA 02 | | | |
| RAD04-C02-00 | 367.717,410 | 8.219.730,350 | 560,720 |
| RAD04-C02-01 | 367.729,790 | 8.219.733,590 | 560,700 |
| RAD04-C02-02 | 367.740,070 | 8.219.732,930 | 560,730 |
| RAD04-C02-03 | 367.751,580 | 8.219.736,120 | 560,730 |
| RAD04-C02-04 | 367.765,530 | 8.219.735,480 | 560,710 |
| RAD04-C02-05 | 367.780,420 | 8.219.736,550 | 560,720 |
| RAD04-C02-06 | 367.794,060 | 8.219.738,720 | 560,740 |
| RAD04-C02-07 | 367.806,420 | 8.219.740,710 | 560,710 |
| RAD04-C02-08 | 367.819,960 | 8.219.746,260 | 560,700 |
| RAD04-C02-09 | 367.832,200 | 8.219.750,930 | 560,700 |
| RAD04-C02-10 | 367.843,130 | 8.219.754,860 | 560,730 |
| RAD04-C02-11 | 367.853,430 | 8.219.760,480 | 560,700 |
| RAD04-C02-12 | 367.864,960 | 8.219.768,590 | 560,710 |
| RAD04-C02-13 | 367.874,660 | 8.219.773,450 | 560,720 |
| RAD04-C02-14 | 367.884,540 | 8.219.777,370 | 560,710 |
| RAD04-C02-15 | 367.895,250 | 8.219.783,100 | 560,720 |
| RAD04-C02-16 | 367.905,130 | 8.219.789,670 | 560,730 |
| RAD04-C02-17 | 367.913,280 | 8.219.798,420 | 560,710 |
| CURVA 03 | | | |
| RAD04-C03-00 | 367.686,930 | 8.219.768,770 | 559,620 |
| RAD04-C03-01 | 367.705,510 | 8.219.771,090 | 559,630 |
| RAD04-C03-02 | 367.719,380 | 8.219.771,520 | 559,620 |
| RAD04-C03-03 | 367.731,760 | 8.219.774,020 | 559,590 |
| RAD04-C03-04 | 367.747,230 | 8.219.772,400 | 559,620 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD04-C03-05 | 367.761,000 | 8.219.772,680 | 559,590 |
| RAD04-C03-06 | 367.774,310 | 8.219.774,630 | 559,620 |
| RAD04-C03-07 | 367.786,650 | 8.219.776,850 | 559,600 |
| RAD04-C03-08 | 367.799,830 | 8.219.780,970 | 559,600 |
| RAD04-C03-09 | 367.813,210 | 8.219.785,350 | 559,620 |
| RAD04-C03-10 | 367.826,560 | 8.219.788,100 | 559,610 |
| RAD04-C03-11 | 367.839,150 | 8.219.792,450 | 559,620 |
| RAD04-C03-12 | 367.850,460 | 8.219.798,740 | 559,630 |
| RAD04-C03-13 | 367.861,050 | 8.219.806,910 | 559,600 |
| RAD04-C03-14 | 367.874,010 | 8.219.814,850 | 559,620 |
| RAD04-C03-15 | 367.884,280 | 8.219.822,500 | 559,610 |
| RAD04-C03-16 | 367.893,370 | 8.219.830,920 | 559,610 |
| RAD04-C03-17 | 367.902,370 | 8.219.840,690 | 559,610 |
| RAD04-C03-18 | 367.913,770 | 8.219.850,190 | 559,630 |
| RAD04-C03-19 | 367.920,090 | 8.219.861,250 | 559,610 |
| CURVA 04 | | | |
| RAD04-C04-00 | 367.695,060 | 8.219.800,230 | 558,730 |
| RAD04-C04-01 | 367.709,290 | 8.219.803,220 | 558,730 |
| RAD04-C04-02 | 367.722,970 | 8.219.804,120 | 558,720 |
| RAD04-C04-03 | 367.736,710 | 8.219.805,950 | 558,720 |
| RAD04-C04-04 | 367.761,130 | 8.219.800,980 | 558,720 |
| RAD04-C04-05 | 367.774,900 | 8.219.804,780 | 558,730 |
| RAD04-C04-06 | 367.788,530 | 8.219.808,010 | 558,740 |
| RAD04-C04-07 | 367.799,560 | 8.219.810,920 | 558,720 |
| RAD04-C04-08 | 367.815,180 | 8.219.815,790 | 558,720 |
| RAD04-C04-09 | 367.826,750 | 8.219.819,100 | 558,730 |
| RAD04-C04-10 | 367.838,060 | 8.219.824,480 | 558,730 |
| RAD04-C04-11 | 367.848,290 | 8.219.830,300 | 558,740 |
| RAD04-C04-12 | 367.856,870 | 8.219.840,450 | 558,720 |
| RAD04-C04-13 | 367.866,700 | 8.219.847,580 | 558,720 |
| RAD04-C04-14 | 367.874,300 | 8.219.858,090 | 558,710 |
| RAD04-C04-15 | 367.881,780 | 8.219.866,510 | 558,710 |
| RAD04-C04-16 | 367.891,240 | 8.219.874,910 | 558,730 |
| RAD04-C04-17 | 367.899,330 | 8.219.884,530 | 558,720 |
| RAD04-C04-18 | 367.906,410 | 8.219.893,640 | 558,740 |
| RAD04-C04-19 | 367.910,850 | 8.219.904,320 | 558,720 |
| RAD04-C04-20 | 367.915,460 | 8.219.915,900 | 558,710 |
| RAD04-C04-21 | 367.920,430 | 8.219.926,210 | 558,720 |
| RAD04-C04-22 | 367.926,710 | 8.219.935,990 | 558,740 |
| CURVA 05 | | | |
| RAD04-C05-00 | 367.672,160 | 8.219.834,290 | 557,640 |
| RAD04-C05-01 | 367.682,460 | 8.219.840,070 | 557,610 |
| RAD04-C05-02 | 367.693,270 | 8.219.844,140 | 557,610 |
| RAD04-C05-03 | 367.704,990 | 8.219.845,170 | 557,630 |
| RAD04-C05-04 | 367.716,120 | 8.219.847,640 | 557,620 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD04-C05-05 | 367.727,160 | 8.219.848,270 | 557,610 |
| RAD04-C05-06 | 367.738,660 | 8.219.846,240 | 557,650 |
| RAD04-C05-07 | 367.752,820 | 8.219.846,410 | 557,630 |
| RAD04-C05-08 | 367.762,740 | 8.219.846,240 | 557,600 |
| RAD04-C05-09 | 367.776,450 | 8.219.846,760 | 557,630 |
| RAD04-C05-10 | 367.786,980 | 8.219.850,030 | 557,600 |
| RAD04-C05-11 | 367.798,930 | 8.219.850,270 | 557,610 |
| RAD04-C05-12 | 367.810,040 | 8.219.853,350 | 557,610 |
| RAD04-C05-13 | 367.822,030 | 8.219.857,970 | 557,610 |
| RAD04-C05-14 | 367.830,750 | 8.219.865,450 | 557,620 |
| RAD04-C05-15 | 367.840,590 | 8.219.871,600 | 557,630 |
| RAD04-C05-16 | 367.849,700 | 8.219.878,840 | 557,620 |
| RAD04-C05-17 | 367.857,720 | 8.219.887,230 | 557,650 |
| RAD04-C05-18 | 367.863,490 | 8.219.897,110 | 557,600 |
| RAD04-C05-19 | 367.869,580 | 8.219.908,330 | 557,630 |
| RAD04-C05-20 | 367.875,130 | 8.219.918,850 | 557,630 |
| RAD04-C05-21 | 367.877,340 | 8.219.930,790 | 557,610 |
| RAD04-C05-22 | 367.880,650 | 8.219.942,190 | 557,610 |
| RAD04-C05-23 | 367.884,910 | 8.219.953,780 | 557,600 |
| RAD04-C05-24 | 367.890,280 | 8.219.966,130 | 557,610 |
| RAD04-C05-25 | 367.893,780 | 8.219.977,740 | 557,630 |
| RAD04-C05-26 | 367.898,270 | 8.219.989,280 | 557,610 |
| RAD04-C05-27 | 367.901,810 | 8.219.999,990 | 557,620 |
| RAD04-C05-28 | 367.905,450 | 8.220.011,560 | 557,650 |
| RAD04-C05-29 | 367.909,510 | 8.220.023,290 | 557,650 |
| RAD04-C05-30 | 367.913,920 | 8.220.036,400 | 557,620 |
| RAD04-C05-31 | 367.916,480 | 8.220.057,790 | 557,620 |
| RAD04-C05-32 | 367.920,600 | 8.220.070,090 | 557,610 |
| RAD04-C05-33 | 367.924,970 | 8.220.080,000 | 557,620 |
| RAD04-C05-34 | 367.929,220 | 8.220.090,900 | 557,610 |
| CURVA 06 | | | |
| RAD04-C06-00 | 367.673,400 | 8.219.867,180 | 556,840 |
| RAD04-C06-01 | 367.682,510 | 8.219.871,800 | 556,830 |
| RAD04-C06-02 | 367.693,080 | 8.219.877,650 | 556,830 |
| RAD04-C06-03 | 367.703,810 | 8.219.882,510 | 556,820 |
| RAD04-C06-04 | 367.713,480 | 8.219.889,880 | 556,820 |
| RAD04-C06-05 | 367.724,620 | 8.219.886,970 | 556,800 |
| RAD04-C06-06 | 367.750,970 | 8.219.887,130 | 556,830 |
| RAD04-C06-07 | 367.773,510 | 8.219.888,140 | 556,820 |
| RAD04-C06-08 | 367.786,260 | 8.219.891,520 | 556,820 |
| RAD04-C06-09 | 367.797,760 | 8.219.894,440 | 556,830 |
| RAD04-C06-10 | 367.811,460 | 8.219.897,140 | 556,830 |
| RAD04-C06-11 | 367.821,320 | 8.219.904,520 | 556,820 |
| RAD04-C06-12 | 367.830,820 | 8.219.912,130 | 556,850 |
| RAD04-C06-13 | 367.836,330 | 8.219.923,060 | 556,820 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD04-C06-14 | 367.839,620 | 8.219.934,440 | 556,850 |
| RAD04-C06-15 | 367.845,860 | 8.219.944,060 | 556,840 |
| RAD04-C06-16 | 367.849,830 | 8.219.953,670 | 556,840 |
| RAD04-C06-17 | 367.854,010 | 8.219.965,480 | 556,850 |
| RAD04-C06-18 | 367.858,060 | 8.219.977,700 | 556,850 |
| RAD04-C06-19 | 367.858,800 | 8.219.989,250 | 556,860 |
| RAD04-C06-20 | 367.861,570 | 8.220.002,000 | 556,830 |
| RAD04-C06-21 | 367.861,260 | 8.220.013,180 | 556,810 |
| RAD04-C06-22 | 367.865,010 | 8.220.025,730 | 556,830 |
| RAD04-C06-23 | 367.866,050 | 8.220.038,120 | 556,830 |
| RAD04-C06-24 | 367.864,510 | 8.220.050,510 | 556,810 |
| RAD04-C06-25 | 367.870,370 | 8.220.062,190 | 556,840 |
| RAD04-C06-26 | 367.874,370 | 8.220.073,920 | 556,810 |
| RAD04-C06-27 | 367.876,600 | 8.220.087,310 | 556,830 |
| RAD04-C06-28 | 367.879,600 | 8.220.098,520 | 556,840 |
| RAD04-C06-29 | 367.885,640 | 8.220.108,660 | 556,840 |
| RAD04-C06-30 | 367.890,510 | 8.220.119,340 | 556,810 |
| RAD04-C06-31 | 367.895,840 | 8.220.128,520 | 556,840 |
| RAD04-C06-32 | 367.901,040 | 8.220.139,750 | 556,840 |
| RAD04-C06-33 | 367.907,460 | 8.220.149,480 | 556,820 |
| RAD04-C06-34 | 367.913,400 | 8.220.158,210 | 556,830 |
| RAD04-C06-35 | 367.920,410 | 8.220.168,170 | 556,840 |
| RAD04-C06-36 | 367.929,840 | 8.220.178,300 | 556,810 |
| RAD04-C06-37 | 367.933,810 | 8.220.189,030 | 556,830 |
| CURVA 07 | | | |
| RAD04-C07-00 | 367.686,440 | 8.219.907,560 | 556,180 |
| RAD04-C07-01 | 367.696,650 | 8.219.914,450 | 556,160 |
| RAD04-C07-02 | 367.706,650 | 8.219.921,850 | 556,160 |
| RAD04-C07-03 | 367.713,820 | 8.219.932,060 | 556,140 |
| RAD04-C07-04 | 367.717,600 | 8.219.943,720 | 556,130 |
| RAD04-C07-05 | 367.729,910 | 8.219.947,430 | 556,160 |
| RAD04-C07-06 | 367.735,230 | 8.219.961,240 | 556,150 |
| RAD04-C07-07 | 367.745,020 | 8.219.970,800 | 556,120 |
| RAD04-C07-08 | 367.753,160 | 8.219.977,490 | 556,170 |
| RAD04-C07-09 | 367.762,860 | 8.219.987,980 | 556,180 |
| RAD04-C07-10 | 367.770,550 | 8.219.995,950 | 556,150 |
| RAD04-C07-11 | 367.781,360 | 8.220.004,440 | 556,160 |
| RAD04-C07-12 | 367.795,510 | 8.220.021,520 | 556,160 |
| RAD04-C07-13 | 367.795,260 | 8.220.034,350 | 556,170 |
| RAD04-C07-14 | 367.797,210 | 8.220.046,850 | 556,170 |
| RAD04-C07-15 | 367.800,730 | 8.220.059,330 | 556,160 |
| RAD04-C07-16 | 367.805,050 | 8.220.069,080 | 556,170 |
| RAD04-C07-17 | 367.809,820 | 8.220.080,770 | 556,160 |
| RAD04-C07-18 | 367.815,060 | 8.220.092,660 | 556,150 |
| RAD04-C07-19 | 367.820,890 | 8.220.103,380 | 556,160 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD04-C07-20 | 367.826,480 | 8.220.114,190 | 556,170 |
| RAD04-C07-21 | 367.832,830 | 8.220.125,180 | 556,150 |
| RAD04-C07-22 | 367.840,710 | 8.220.136,150 | 556,140 |
| RAD04-C07-23 | 367.849,180 | 8.220.145,570 | 556,150 |
| RAD04-C07-24 | 367.856,810 | 8.220.154,880 | 556,150 |
| RAD04-C07-25 | 367.864,140 | 8.220.165,190 | 556,160 |
| RAD04-C07-26 | 367.873,180 | 8.220.172,610 | 556,160 |
| RAD04-C07-27 | 367.880,310 | 8.220.184,330 | 556,140 |
| RAD04-C07-28 | 367.888,000 | 8.220.193,880 | 556,150 |
| RAD04-C07-29 | 367.896,900 | 8.220.201,180 | 556,170 |
| RAD04-C07-30 | 367.905,420 | 8.220.212,810 | 556,160 |
| RAD04-C07-31 | 367.914,170 | 8.220.220,670 | 556,130 |
| RAD04-C07-32 | 367.924,070 | 8.220.228,370 | 556,160 |
| CURVA 08 | | | |
| RAD04-C08-00 | 367.729,130 | 8.220.104,310 | 555,460 |
| RAD04-C08-01 | 367.730,930 | 8.220.116,220 | 555,450 |
| RAD04-C08-02 | 367.736,260 | 8.220.126,490 | 555,470 |
| RAD04-C08-03 | 367.742,610 | 8.220.136,310 | 555,470 |
| RAD04-C08-04 | 367.751,550 | 8.220.143,940 | 555,470 |
| RAD04-C08-05 | 367.765,280 | 8.220.146,810 | 555,490 |
| RAD04-C08-06 | 367.782,180 | 8.220.155,500 | 555,470 |
| RAD04-C08-07 | 367.794,460 | 8.220.162,000 | 555,460 |
| RAD04-C08-08 | 367.806,010 | 8.220.168,620 | 555,470 |
| RAD04-C08-09 | 367.815,300 | 8.220.176,110 | 555,440 |
| RAD04-C08-10 | 367.824,180 | 8.220.185,200 | 555,470 |
| RAD04-C08-11 | 367.832,900 | 8.220.192,650 | 555,480 |
| RAD04-C08-12 | 367.842,750 | 8.220.199,600 | 555,480 |
| RAD04-C08-13 | 367.852,420 | 8.220.209,130 | 555,470 |
| RAD04-C08-14 | 367.860,620 | 8.220.217,510 | 555,460 |
| RAD04-C08-15 | 367.868,730 | 8.220.227,400 | 555,490 |
| RAD04-C08-16 | 367.877,210 | 8.220.235,470 | 555,470 |
| RAD04-C08-17 | 367.886,720 | 8.220.244,280 | 555,470 |
| RAD04-C08-18 | 367.895,170 | 8.220.252,160 | 555,480 |
| RAD04-C08-19 | 367.904,030 | 8.220.260,370 | 555,460 |
| RAD04-C08-20 | 367.912,970 | 8.220.267,220 | 555,460 |
| RAD04-C08-21 | 367.921,930 | 8.220.274,690 | 555,460 |
| CURVA 09 | | | |
| RAD04-C09-00 | 367.694,950 | 8.220.118,890 | 554,500 |
| RAD04-C09-01 | 367.696,990 | 8.220.130,580 | 554,490 |
| RAD04-C09-02 | 367.701,550 | 8.220.142,020 | 554,500 |
| RAD04-C09-03 | 367.706,710 | 8.220.154,460 | 554,510 |
| RAD04-C09-04 | 367.712,970 | 8.220.165,280 | 554,500 |
| RAD04-C09-05 | 367.721,700 | 8.220.172,560 | 554,530 |
| RAD04-C09-06 | 367.731,810 | 8.220.180,380 | 554,500 |
| RAD04-C09-07 | 367.740,580 | 8.220.186,670 | 554,490 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD04-C09-08 | 367.760,000 | 8.220.191,230 | 554,510 |
| RAD04-C09-09 | 367.773,250 | 8.220.196,990 | 554,490 |
| RAD04-C09-10 | 367.786,710 | 8.220.200,600 | 554,510 |
| RAD04-C09-11 | 367.795,820 | 8.220.207,850 | 554,500 |
| RAD04-C09-12 | 367.807,830 | 8.220.215,380 | 554,480 |
| RAD04-C09-13 | 367.816,600 | 8.220.224,180 | 554,500 |
| RAD04-C09-14 | 367.825,370 | 8.220.232,130 | 554,500 |
| RAD04-C09-15 | 367.833,320 | 8.220.240,280 | 554,500 |
| RAD04-C09-16 | 367.840,130 | 8.220.250,300 | 554,500 |
| RAD04-C09-17 | 367.844,490 | 8.220.262,110 | 554,480 |
| RAD04-C09-18 | 367.855,100 | 8.220.270,010 | 554,490 |
| RAD04-C09-19 | 367.863,220 | 8.220.278,720 | 554,500 |
| RAD04-C09-20 | 367.871,150 | 8.220.288,780 | 554,490 |
| RAD04-C09-21 | 367.880,630 | 8.220.300,250 | 554,520 |
| RAD04-C09-22 | 367.891,670 | 8.220.309,470 | 554,500 |

Locação de Terraços - RAD 05

| NOME | ESTE | NORTE | ALTITUDE |
|---------------|-------------|---------------|----------|
| CURVA 01 | | | |
| RAD05-C01-00 | 367.352,000 | 8.219.698,280 | 563,220 |
| RAD05-C01-01 | 367.356,610 | 8.219.689,840 | 563,230 |
| RAD05-C01-02 | 367.356,990 | 8.219.680,580 | 563,230 |
| RAD05-C01-03 | 367.356,160 | 8.219.670,710 | 563,250 |
| RAD05-C01-04 | 367.353,510 | 8.219.661,970 | 563,210 |
| RAD05-C01-05 | 367.348,640 | 8.219.654,140 | 563,220 |
| RAD05-C01-06 | 367.340,870 | 8.219.649,000 | 563,220 |
| RAD05-C01-07 | 367.333,300 | 8.219.644,230 | 563,220 |
| RAD05-C01-08 | 367.327,680 | 8.219.637,160 | 563,220 |
| RAD05-C01-09 | 367.319,490 | 8.219.633,060 | 563,210 |
| RAD05-C01-10 | 367.313,360 | 8.219.626,650 | 563,220 |
| RAD05-C01-11 | 367.310,520 | 8.219.617,990 | 563,240 |
| RAD05-C01-12 | 367.306,650 | 8.219.610,220 | 563,220 |
| RAD05-C01-13 | 367.298,940 | 8.219.604,320 | 563,240 |
| RAD05-C01-14 | 367.289,540 | 8.219.604,940 | 563,240 |
| RAD05-C01-15 | 367.279,650 | 8.219.605,320 | 563,230 |
| RAD05-C01-16 | 367.271,590 | 8.219.603,190 | 563,210 |
| RAD05-C01-17 | 367.262,200 | 8.219.605,030 | 563,200 |
| RAD05-C01-18 | 367.253,670 | 8.219.608,120 | 563,230 |
| RAD 05-C01-19 | 367.245,000 | 8.219.607,410 | 563,250 |
| RAD 05-C01-20 | 367.236,550 | 8.219.609,350 | 563,240 |
| RAD 05-C01-21 | 367.227,320 | 8.219.613,490 | 563,230 |
| CURVA 02 | | | |
| RAD05-C02-00 | 367.372,780 | 8.219.704,190 | 563,730 |
| RAD05-C02-01 | 367.376,610 | 8.219.696,970 | 563,730 |
| RAD05-C02-02 | 367.381,940 | 8.219.690,420 | 563,710 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD05-C02-03 | 367.387,260 | 8.219.683,620 | 563,710 |
| RAD05-C02-04 | 367.391,500 | 8.219.675,530 | 563,710 |
| RAD05-C02-05 | 367.392,090 | 8.219.666,710 | 563,720 |
| RAD05-C02-06 | 367.392,390 | 8.219.657,630 | 563,720 |
| RAD05-C02-07 | 367.391,670 | 8.219.649,310 | 563,720 |
| RAD05-C02-08 | 367.390,220 | 8.219.641,160 | 563,710 |
| RAD05-C02-09 | 367.388,140 | 8.219.630,810 | 563,700 |
| RAD05-C02-10 | 367.385,040 | 8.219.622,800 | 563,710 |
| RAD05-C02-11 | 367.381,680 | 8.219.615,370 | 563,700 |
| RAD05-C02-12 | 367.375,600 | 8.219.608,400 | 563,710 |
| RAD05-C02-13 | 367.368,790 | 8.219.603,000 | 563,720 |
| RAD05-C02-14 | 367.359,420 | 8.219.600,430 | 563,740 |
| RAD05-C02-15 | 367.351,550 | 8.219.596,840 | 563,710 |
| RAD05-C02-16 | 367.342,750 | 8.219.593,180 | 563,720 |
| RAD05-C02-17 | 367.333,320 | 8.219.590,080 | 563,720 |
| RAD05-C02-18 | 367.325,690 | 8.219.590,350 | 563,730 |
| RAD05-C02-19 | 367.313,620 | 8.219.595,180 | 563,730 |
| RAD05-C02-20 | 367.306,690 | 8.219.591,540 | 563,730 |
| RAD05-C02-21 | 367.300,030 | 8.219.586,020 | 563,700 |
| RAD05-C02-22 | 367.293,160 | 8.219.581,390 | 563,730 |
| RAD05-C02-23 | 367.286,070 | 8.219.579,660 | 563,700 |
| RAD05-C02-24 | 367.279,010 | 8.219.575,840 | 563,700 |
| RAD05-C02-25 | 367.270,790 | 8.219.573,990 | 563,730 |
| RAD05-C02-26 | 367.263,260 | 8.219.571,310 | 563,720 |
| RAD05-C02-27 | 367.254,530 | 8.219.569,970 | 563,720 |
| RAD05-C02-28 | 367.247,850 | 8.219.564,460 | 563,710 |
| RAD05-C02-29 | 367.240,180 | 8.219.561,010 | 563,730 |
| RAD05-C02-30 | 367.231,340 | 8.219.563,760 | 563,700 |
| RAD05-C02-31 | 367.224,500 | 8.219.561,270 | 563,700 |
| RAD05-C02-32 | 367.224,890 | 8.219.552,060 | 563,700 |
| RAD05-C02-33 | 367.222,050 | 8.219.544,020 | 563,720 |
| RAD05-C02-34 | 367.217,800 | 8.219.536,930 | 563,700 |
| CURVA 03 | | | |
| RAD05-C03-00 | 367.394,090 | 8.219.595,830 | 564,540 |
| RAD05-C03-01 | 367.387,910 | 8.219.590,950 | 564,550 |
| RAD05-C03-02 | 367.380,870 | 8.219.586,750 | 564,540 |
| RAD05-C03-03 | 367.374,940 | 8.219.580,420 | 564,530 |
| RAD05-C03-04 | 367.366,600 | 8.219.577,730 | 564,550 |
| RAD05-C03-05 | 367.359,020 | 8.219.573,920 | 564,560 |
| RAD05-C03-06 | 367.350,610 | 8.219.571,220 | 564,550 |
| RAD05-C03-07 | 367.343,360 | 8.219.567,760 | 564,560 |
| RAD05-C03-08 | 367.335,250 | 8.219.563,040 | 564,550 |
| RAD05-C03-09 | 367.328,040 | 8.219.560,780 | 564,540 |
| RAD05-C03-10 | 367.319,640 | 8.219.556,560 | 564,530 |
| RAD05-C03-11 | 367.312,630 | 8.219.555,110 | 564,530 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD05-C03-12 | 367.304,080 | 8.219.552,650 | 564,550 |
| RAD05-C03-13 | 367.295,880 | 8.219.551,400 | 564,560 |
| RAD05-C03-14 | 367.287,480 | 8.219.550,840 | 564,530 |
| RAD05-C03-15 | 367.280,780 | 8.219.545,490 | 564,540 |
| RAD05-C03-16 | 367.276,580 | 8.219.539,160 | 564,530 |
| RAD05-C03-17 | 367.268,770 | 8.219.535,190 | 564,560 |
| RAD05-C03-18 | 367.261,370 | 8.219.529,850 | 564,520 |
| RAD05-C03-19 | 367.254,310 | 8.219.525,260 | 564,540 |

CURVA 04

| | | | |
|--------------|-------------|---------------|---------|
| RAD05-C04-00 | 367.383,650 | 8.219.547,630 | 565,930 |
| RAD05-C04-01 | 367.374,700 | 8.219.544,390 | 565,920 |
| RAD05-C04-02 | 367.368,260 | 8.219.539,160 | 565,920 |
| RAD05-C04-03 | 367.360,420 | 8.219.535,520 | 565,940 |
| RAD05-C04-04 | 367.353,120 | 8.219.529,730 | 565,930 |
| RAD05-C04-05 | 367.345,390 | 8.219.527,730 | 565,940 |
| RAD05-C04-06 | 367.337,960 | 8.219.525,300 | 565,940 |
| RAD05-C04-07 | 367.330,420 | 8.219.522,200 | 565,900 |
| RAD05-C04-08 | 367.324,060 | 8.219.516,890 | 565,920 |
| RAD05-C04-09 | 367.316,850 | 8.219.513,640 | 565,920 |
| RAD05-C04-10 | 367.309,730 | 8.219.509,650 | 565,930 |
| RAD05-C04-11 | 367.302,920 | 8.219.506,860 | 565,930 |

Locação de Terraços - RAD 06

| NOME | ESTE | NORTE | ALTITUDE |
|-----------------|-------------|---------------|-----------------|
| CURVA 01 | | | |
| RAD06-C01-00 | 367.806,230 | 8.219.456,830 | 568,070 |
| RAD06-C01-01 | 367.797,630 | 8.219.452,970 | 568,070 |
| RAD06-C01-02 | 367.789,600 | 8.219.449,140 | 568,050 |
| RAD06-C01-03 | 367.781,840 | 8.219.444,940 | 568,060 |
| RAD06-C01-04 | 367.772,900 | 8.219.440,190 | 568,080 |
| RAD06-C01-05 | 367.764,910 | 8.219.435,570 | 568,050 |
| RAD06-C01-06 | 367.755,510 | 8.219.430,250 | 568,050 |
| RAD06-C01-07 | 367.747,160 | 8.219.424,830 | 568,090 |
| RAD06-C01-08 | 367.738,930 | 8.219.419,110 | 568,060 |
| RAD06-C01-09 | 367.731,340 | 8.219.413,660 | 568,070 |
| RAD06-C01-10 | 367.723,160 | 8.219.411,480 | 568,070 |
| RAD06-C01-11 | 367.715,310 | 8.219.406,230 | 568,070 |
| RAD06-C01-12 | 367.706,730 | 8.219.400,970 | 568,060 |
| RAD06-C01-13 | 367.699,320 | 8.219.395,350 | 568,070 |
| RAD06-C01-14 | 367.692,630 | 8.219.388,940 | 568,070 |
| RAD06-C01-15 | 367.686,220 | 8.219.383,860 | 568,060 |
| RAD06-C01-16 | 367.679,530 | 8.219.376,770 | 568,080 |
| RAD06-C01-17 | 367.671,830 | 8.219.371,380 | 568,070 |
| RAD06-C01-18 | 367.663,680 | 8.219.365,490 | 568,050 |
| RAD06-C01-19 | 367.658,280 | 8.219.358,130 | 568,070 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD06-C01-20 | 367.637,810 | 8.219.345,050 | 568,050 |
| RAD06-C01-21 | 367.647,120 | 8.219.350,870 | 568,050 |
| RAD06-C01-22 | 367.632,990 | 8.219.337,480 | 568,050 |
| RAD06-C01-23 | 367.627,920 | 8.219.329,790 | 568,060 |
| RAD06-C01-24 | 367.625,660 | 8.219.320,620 | 568,070 |
| RAD06-C01-25 | 367.619,420 | 8.219.313,800 | 568,070 |
| RAD06-C01-26 | 367.613,500 | 8.219.306,890 | 568,070 |
| RAD06-C01-27 | 367.609,470 | 8.219.299,510 | 568,060 |
| RAD06-C01-28 | 367.607,400 | 8.219.290,630 | 568,060 |
| RAD06-C01-29 | 367.603,520 | 8.219.282,800 | 568,090 |
| RAD06-C01-30 | 367.598,920 | 8.219.275,160 | 568,050 |
| RAD06-C01-31 | 367.599,260 | 8.219.267,070 | 568,070 |
| RAD06-C01-32 | 367.598,610 | 8.219.259,220 | 568,080 |
| RAD06-C01-33 | 367.599,310 | 8.219.251,040 | 568,080 |
| RAD06-C01-34 | 367.599,430 | 8.219.242,060 | 568,070 |
| RAD06-C01-35 | 367.598,970 | 8.219.232,850 | 568,060 |
| RAD06-C01-36 | 367.600,910 | 8.219.224,100 | 568,080 |
| RAD06-C01-37 | 367.600,120 | 8.219.215,510 | 568,070 |
| RAD06-C01-38 | 367.602,240 | 8.219.206,660 | 568,080 |
| RAD06-C01-39 | 367.603,690 | 8.219.197,980 | 568,070 |
| RAD06-C01-40 | 367.608,310 | 8.219.190,480 | 568,070 |
| RAD06-C01-41 | 367.610,130 | 8.219.182,320 | 568,060 |
| RAD06-C01-42 | 367.613,500 | 8.219.174,670 | 568,090 |
| RAD06-C01-43 | 367.617,470 | 8.219.166,550 | 568,070 |
| RAD06-C01-44 | 367.619,810 | 8.219.158,590 | 568,070 |
| RAD06-C01-45 | 367.622,570 | 8.219.149,730 | 568,060 |
| RAD06-C01-46 | 367.630,850 | 8.219.142,670 | 568,070 |
| RAD06-C01-47 | 367.626,860 | 8.219.131,220 | 568,050 |
| RAD06-C01-48 | 367.628,240 | 8.219.121,950 | 568,080 |
| RAD06-C01-49 | 367.630,320 | 8.219.112,060 | 568,060 |
| CURVA 02 | | | |
| RAD06-C02-00 | 367.785,420 | 8.219.345,490 | 569,280 |
| RAD06-C02-01 | 367.776,710 | 8.219.342,510 | 569,260 |
| RAD06-C02-02 | 367.769,380 | 8.219.338,470 | 569,270 |
| RAD06-C02-03 | 367.761,510 | 8.219.332,210 | 569,290 |
| RAD06-C02-04 | 367.756,430 | 8.219.325,010 | 569,270 |
| RAD06-C02-05 | 367.750,590 | 8.219.318,510 | 569,270 |
| RAD06-C02-06 | 367.743,790 | 8.219.313,910 | 569,280 |
| RAD06-C02-07 | 367.735,980 | 8.219.310,030 | 569,270 |
| RAD06-C02-08 | 367.727,760 | 8.219.307,170 | 569,260 |
| RAD06-C02-09 | 367.717,070 | 8.219.303,710 | 569,260 |
| RAD06-C02-10 | 367.713,340 | 8.219.295,730 | 569,290 |
| RAD06-C02-11 | 367.708,890 | 8.219.287,750 | 569,280 |
| RAD06-C02-12 | 367.704,550 | 8.219.280,410 | 569,270 |
| RAD06-C02-13 | 367.697,910 | 8.219.274,560 | 569,260 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD06-C02-14 | 367.690,430 | 8.219.267,240 | 569,270 |
| RAD06-C02-15 | 367.684,050 | 8.219.260,050 | 569,290 |
| RAD06-C02-16 | 367.679,040 | 8.219.253,490 | 569,270 |
| RAD06-C02-17 | 367.671,200 | 8.219.246,970 | 569,280 |
| RAD06-C02-18 | 367.665,610 | 8.219.238,480 | 569,260 |
| RAD06-C02-19 | 367.657,720 | 8.219.231,470 | 569,280 |
| RAD06-C02-20 | 367.658,040 | 8.219.222,920 | 569,270 |
| RAD06-C02-21 | 367.658,070 | 8.219.213,750 | 569,260 |
| RAD06-C02-22 | 367.660,820 | 8.219.206,030 | 569,250 |
| RAD06-C02-23 | 367.663,440 | 8.219.197,470 | 569,280 |
| RAD06-C02-24 | 367.663,500 | 8.219.188,510 | 569,270 |
| RAD06-C02-25 | 367.661,020 | 8.219.180,030 | 569,280 |
| RAD06-C02-26 | 367.659,630 | 8.219.171,080 | 569,260 |
| RAD06-C02-27 | 367.662,460 | 8.219.163,600 | 569,260 |
| RAD06-C02-28 | 367.662,900 | 8.219.154,950 | 569,280 |
| RAD06-C02-29 | 367.664,150 | 8.219.146,860 | 569,290 |
| RAD06-C02-30 | 367.665,400 | 8.219.138,380 | 569,280 |
| RAD06-C02-31 | 367.664,800 | 8.219.130,350 | 569,260 |
| RAD06-C02-32 | 367.665,200 | 8.219.122,120 | 569,290 |
| RAD06-C02-33 | 367.664,640 | 8.219.113,380 | 569,280 |
| RAD06-C02-34 | 367.664,300 | 8.219.104,570 | 569,280 |
| RAD06-C02-35 | 367.664,800 | 8.219.096,170 | 569,290 |
| RAD06-C02-36 | 367.662,320 | 8.219.087,890 | 569,290 |
| CURVA 03 | | | |
| RAD06-C03-00 | 367.759,890 | 8.219.244,290 | 570,090 |
| RAD06-C03-01 | 367.751,660 | 8.219.239,240 | 570,090 |
| RAD06-C03-02 | 367.739,540 | 8.219.239,570 | 570,080 |
| RAD06-C03-03 | 367.734,910 | 8.219.230,570 | 570,080 |
| RAD06-C03-04 | 367.729,750 | 8.219.222,470 | 570,090 |
| RAD06-C03-05 | 367.725,130 | 8.219.214,790 | 570,080 |
| RAD06-C03-06 | 367.724,350 | 8.219.205,940 | 570,090 |
| RAD06-C03-07 | 367.718,680 | 8.219.197,830 | 570,100 |
| RAD06-C03-08 | 367.711,580 | 8.219.192,320 | 570,110 |
| RAD06-C03-09 | 367.704,640 | 8.219.186,910 | 570,080 |
| RAD06-C03-10 | 367.699,270 | 8.219.180,720 | 570,090 |
| RAD06-C03-11 | 367.695,980 | 8.219.171,780 | 570,090 |
| RAD06-C03-12 | 367.693,720 | 8.219.162,760 | 570,090 |
| RAD06-C03-13 | 367.690,750 | 8.219.155,570 | 570,080 |
| RAD06-C03-14 | 367.696,970 | 8.219.145,140 | 570,090 |
| RAD06-C03-15 | 367.696,210 | 8.219.136,300 | 570,090 |
| RAD06-C03-16 | 367.695,880 | 8.219.128,510 | 570,090 |
| RAD06-C03-17 | 367.696,130 | 8.219.120,010 | 570,100 |
| RAD06-C03-18 | 367.696,090 | 8.219.111,120 | 570,070 |
| RAD06-C03-19 | 367.696,070 | 8.219.102,620 | 570,090 |
| RAD06-C03-20 | 367.695,560 | 8.219.093,820 | 570,090 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD06-C03-21 | 367.692,320 | 8.219.085,850 | 570,100 |
| RAD06-C03-22 | 367.694,060 | 8.219.076,370 | 570,100 |
| RAD06-C03-23 | 367.691,560 | 8.219.067,370 | 570,110 |
| CURVA 04 | | | |
| RAD06-C04-00 | 367.766,290 | 8.219.518,100 | 566,920 |
| RAD06-C04-01 | 367.758,110 | 8.219.514,030 | 566,920 |
| RAD06-C04-02 | 367.750,160 | 8.219.511,700 | 566,900 |
| RAD06-C04-03 | 367.742,630 | 8.219.506,320 | 566,940 |
| RAD06-C04-04 | 367.734,820 | 8.219.502,490 | 566,910 |
| RAD06-C04-05 | 367.726,190 | 8.219.500,110 | 566,920 |
| RAD06-C04-06 | 367.719,760 | 8.219.494,610 | 566,920 |
| RAD06-C04-07 | 367.711,610 | 8.219.492,640 | 566,920 |
| RAD06-C04-08 | 367.703,190 | 8.219.488,880 | 566,920 |
| RAD06-C04-09 | 367.695,560 | 8.219.486,360 | 566,900 |
| RAD06-C04-10 | 367.688,560 | 8.219.481,380 | 566,910 |
| RAD06-C04-11 | 367.680,390 | 8.219.478,220 | 566,910 |
| RAD06-C04-12 | 367.671,890 | 8.219.474,570 | 566,940 |
| RAD06-C04-13 | 367.666,670 | 8.219.466,630 | 566,900 |
| RAD06-C04-14 | 367.658,670 | 8.219.461,690 | 566,920 |
| RAD06-C04-15 | 367.652,730 | 8.219.455,430 | 566,930 |
| RAD06-C04-16 | 367.646,270 | 8.219.450,220 | 566,900 |
| RAD06-C04-17 | 367.640,680 | 8.219.443,980 | 566,900 |
| RAD06-C04-18 | 367.634,350 | 8.219.437,540 | 566,920 |
| RAD06-C04-19 | 367.630,310 | 8.219.431,820 | 566,920 |
| RAD06-C04-20 | 367.625,350 | 8.219.424,840 | 566,910 |
| RAD06-C04-21 | 367.618,260 | 8.219.418,080 | 566,920 |
| RAD06-C04-22 | 367.611,250 | 8.219.412,880 | 566,920 |
| RAD06-C04-23 | 367.606,590 | 8.219.403,690 | 566,900 |
| RAD06-C04-24 | 367.600,750 | 8.219.397,630 | 566,910 |
| RAD06-C04-25 | 367.595,810 | 8.219.390,880 | 566,930 |
| RAD06-C04-26 | 367.590,040 | 8.219.383,990 | 566,940 |
| RAD06-C04-27 | 367.582,820 | 8.219.376,790 | 566,930 |
| RAD06-C04-28 | 367.577,570 | 8.219.369,860 | 566,920 |
| RAD06-C04-29 | 367.572,130 | 8.219.363,710 | 566,920 |
| RAD06-C04-30 | 367.567,970 | 8.219.357,190 | 566,930 |
| RAD06-C04-31 | 367.563,680 | 8.219.350,150 | 566,920 |
| RAD06-C04-32 | 367.559,250 | 8.219.343,150 | 566,910 |
| RAD06-C04-33 | 367.555,050 | 8.219.335,460 | 566,930 |
| RAD06-C04-34 | 367.550,260 | 8.219.327,590 | 566,920 |
| RAD06-C04-35 | 367.548,320 | 8.219.319,000 | 566,920 |
| RAD06-C04-36 | 367.544,260 | 8.219.311,670 | 566,930 |
| RAD06-C04-37 | 367.542,460 | 8.219.303,900 | 566,910 |
| RAD06-C04-38 | 367.540,410 | 8.219.295,480 | 566,900 |
| RAD06-C04-39 | 367.539,290 | 8.219.286,890 | 566,930 |
| RAD06-C04-40 | 367.539,880 | 8.219.278,280 | 566,920 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD06-C04-41 | 367.539,800 | 8.219.270,330 | 566,920 |
| RAD06-C04-42 | 367.539,860 | 8.219.261,840 | 566,910 |
| RAD06-C04-43 | 367.542,340 | 8.219.253,970 | 566,910 |
| RAD06-C04-44 | 367.546,630 | 8.219.245,950 | 566,930 |
| RAD06-C04-45 | 367.550,770 | 8.219.238,580 | 566,930 |
| RAD06-C04-46 | 367.556,490 | 8.219.231,830 | 566,940 |
| RAD06-C04-47 | 367.558,260 | 8.219.224,400 | 566,940 |
| RAD06-C04-48 | 367.560,400 | 8.219.216,500 | 566,910 |
| RAD06-C04-49 | 367.563,850 | 8.219.208,640 | 566,930 |
| RAD06-C04-50 | 367.564,470 | 8.219.200,540 | 566,940 |
| RAD06-C04-51 | 367.567,800 | 8.219.193,160 | 566,920 |
| RAD06-C04-52 | 367.572,120 | 8.219.185,400 | 566,910 |
| RAD06-C04-53 | 367.579,120 | 8.219.168,780 | 566,910 |
| RAD06-C04-54 | 367.581,180 | 8.219.161,000 | 566,930 |
| CURVA 05 | | | |
| RAD06-C05-00 | 367.721,700 | 8.219.575,190 | 565,760 |
| RAD06-C05-01 | 367.713,130 | 8.219.572,580 | 565,760 |
| RAD06-C05-02 | 367.705,290 | 8.219.568,920 | 565,760 |
| RAD06-C05-03 | 367.696,910 | 8.219.564,290 | 565,740 |
| RAD06-C05-04 | 367.689,330 | 8.219.560,110 | 565,740 |
| RAD06-C05-05 | 367.680,950 | 8.219.557,190 | 565,740 |
| RAD06-C05-06 | 367.672,540 | 8.219.553,570 | 565,760 |
| RAD06-C05-07 | 367.665,680 | 8.219.548,270 | 565,760 |
| RAD06-C05-08 | 367.657,670 | 8.219.544,620 | 565,770 |
| RAD06-C05-09 | 367.650,390 | 8.219.540,290 | 565,780 |
| RAD06-C05-10 | 367.641,110 | 8.219.538,780 | 565,760 |
| RAD06-C05-11 | 367.634,520 | 8.219.532,580 | 565,760 |
| RAD06-C05-12 | 367.629,300 | 8.219.526,060 | 565,750 |
| RAD06-C05-13 | 367.623,010 | 8.219.520,460 | 565,750 |
| RAD06-C05-14 | 367.616,040 | 8.219.516,280 | 565,760 |
| RAD06-C05-15 | 367.610,370 | 8.219.509,590 | 565,740 |
| RAD06-C05-16 | 367.605,240 | 8.219.501,960 | 565,760 |
| RAD06-C05-17 | 367.600,270 | 8.219.494,990 | 565,760 |
| RAD06-C05-18 | 367.596,590 | 8.219.486,040 | 565,770 |
| RAD06-C05-19 | 367.590,590 | 8.219.480,130 | 565,750 |
| RAD06-C05-20 | 367.586,250 | 8.219.473,280 | 565,760 |
| RAD06-C05-21 | 367.581,570 | 8.219.464,930 | 565,770 |
| RAD06-C05-22 | 367.576,490 | 8.219.458,420 | 565,760 |
| RAD06-C05-23 | 367.573,340 | 8.219.451,130 | 565,770 |
| RAD06-C05-24 | 367.568,640 | 8.219.443,340 | 565,780 |
| RAD06-C05-25 | 367.563,420 | 8.219.437,260 | 565,770 |
| RAD06-C05-26 | 367.557,740 | 8.219.432,000 | 565,760 |
| RAD06-C05-27 | 367.554,590 | 8.219.422,770 | 565,750 |
| RAD06-C05-28 | 367.550,350 | 8.219.414,460 | 565,760 |
| RAD06-C05-29 | 367.546,100 | 8.219.407,170 | 565,760 |

| | | | |
|-------------------------------------|-------------|---------------|-----------------|
| RAD06-C05-30 | 367.540,830 | 8.219.396,720 | 565,770 |
| RAD06-C05-31 | 367.535,650 | 8.219.389,810 | 565,760 |
| Locação de Terraços - RAD 10 | | | |
| NOME | ESTE | NORTE | ALTITUDE |
| CURVA 01 | | | |
| RAD10-C01-00 | 366.507,310 | 8.218.026,460 | 588,000 |
| RAD10-C01-01 | 366.502,020 | 8.218.019,720 | 588,010 |
| RAD10-C01-02 | 366.496,580 | 8.218.013,150 | 588,000 |
| RAD10-C01-03 | 366.489,590 | 8.218.008,200 | 588,000 |
| RAD10-C01-04 | 366.482,680 | 8.218.000,770 | 588,020 |
| RAD10-C01-05 | 366.477,120 | 8.217.994,540 | 588,030 |
| RAD10-C01-06 | 366.471,160 | 8.217.988,760 | 587,990 |
| RAD10-C01-07 | 366.464,620 | 8.217.983,360 | 588,000 |
| RAD10-C01-08 | 366.459,100 | 8.217.976,690 | 587,990 |
| RAD10-C01-09 | 366.452,580 | 8.217.971,400 | 588,010 |
| RAD10-C01-10 | 366.448,230 | 8.217.964,080 | 587,990 |
| RAD10-C01-11 | 366.440,130 | 8.217.961,020 | 588,000 |
| RAD10-C01-12 | 366.434,740 | 8.217.954,450 | 588,020 |
| RAD10-C01-13 | 366.427,350 | 8.217.950,050 | 588,030 |
| RAD10-C01-14 | 366.419,300 | 8.217.949,240 | 588,030 |
| RAD10-C01-15 | 366.410,860 | 8.217.949,090 | 588,000 |
| CURVA 02 | | | |
| RAD10-C02-00 | 366.497,780 | 8.218.069,280 | 589,260 |
| RAD10-C02-01 | 366.491,100 | 8.218.063,760 | 589,280 |
| RAD10-C02-02 | 366.485,930 | 8.218.056,980 | 589,260 |
| RAD10-C02-03 | 366.479,870 | 8.218.050,600 | 589,250 |
| RAD10-C02-04 | 366.473,400 | 8.218.044,430 | 589,250 |
| RAD10-C02-05 | 366.466,870 | 8.218.038,760 | 589,260 |
| RAD10-C02-06 | 366.460,280 | 8.218.034,220 | 589,260 |
| RAD10-C02-07 | 366.453,720 | 8.218.030,360 | 589,270 |
| RAD10-C02-08 | 366.448,860 | 8.218.023,560 | 589,260 |
| RAD10-C02-09 | 366.442,680 | 8.218.017,800 | 589,270 |
| RAD10-C02-10 | 366.436,020 | 8.218.011,750 | 589,260 |
| RAD10-C02-11 | 366.428,790 | 8.218.006,750 | 589,250 |
| RAD10-C02-12 | 366.422,630 | 8.218.000,170 | 589,280 |
| RAD10-C02-13 | 366.416,940 | 8.217.993,500 | 589,260 |
| RAD10-C02-14 | 366.411,580 | 8.217.986,420 | 589,270 |
| RAD10-C02-15 | 366.406,980 | 8.217.980,690 | 589,280 |
| RAD10-C02-16 | 366.400,360 | 8.217.973,470 | 589,240 |
| RAD10-C02-17 | 366.393,700 | 8.217.968,650 | 589,240 |
| RAD10-C02-18 | 366.384,840 | 8.217.969,080 | 589,250 |
| RAD10-C02-19 | 366.376,390 | 8.217.968,020 | 589,250 |
| RAD10-C02-20 | 366.368,520 | 8.217.965,660 | 589,280 |
| RAD10-C02-21 | 366.367,170 | 8.217.955,350 | 589,270 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD10-C02-22 | 366.368,850 | 8.217.946,760 | 589,250 |
| RAD10-C02-23 | 366.373,490 | 8.217.939,390 | 589,250 |
| RAD10-C02-24 | 366.373,650 | 8.217.931,830 | 589,270 |
| RAD10-C02-25 | 366.367,100 | 8.217.926,090 | 589,250 |
| RAD10-C02-26 | 366.369,320 | 8.217.917,550 | 589,270 |
| RAD10-C02-27 | 366.365,000 | 8.217.910,720 | 589,270 |
| RAD10-C02-28 | 366.357,430 | 8.217.904,000 | 589,260 |
| CURVA 03 | | | |
| RAD10-C03-00 | 366.487,090 | 8.218.100,550 | 590,250 |
| RAD10-C03-01 | 366.480,800 | 8.218.096,460 | 590,240 |
| RAD10-C03-02 | 366.475,260 | 8.218.091,010 | 590,260 |
| RAD10-C03-03 | 366.468,220 | 8.218.087,350 | 590,240 |
| RAD10-C03-04 | 366.462,070 | 8.218.081,980 | 590,260 |
| RAD10-C03-05 | 366.455,610 | 8.218.076,030 | 590,240 |
| RAD10-C03-06 | 366.448,040 | 8.218.070,610 | 590,250 |
| RAD10-C03-07 | 366.442,610 | 8.218.064,910 | 590,250 |
| RAD10-C03-08 | 366.435,750 | 8.218.059,310 | 590,220 |
| RAD10-C03-09 | 366.429,230 | 8.218.054,670 | 590,240 |
| RAD10-C03-10 | 366.423,090 | 8.218.049,050 | 590,270 |
| RAD10-C03-11 | 366.417,100 | 8.218.042,780 | 590,220 |
| RAD10-C03-12 | 366.410,250 | 8.218.036,910 | 590,240 |
| RAD10-C03-13 | 366.403,320 | 8.218.032,930 | 590,240 |
| RAD10-C03-14 | 366.398,200 | 8.218.027,480 | 590,230 |
| RAD10-C03-15 | 366.392,920 | 8.218.020,960 | 590,230 |
| RAD10-C03-16 | 366.385,840 | 8.218.016,630 | 590,240 |
| RAD10-C03-17 | 366.379,520 | 8.218.011,130 | 590,240 |
| RAD10-C03-18 | 366.373,040 | 8.218.005,300 | 590,260 |
| RAD10-C03-19 | 366.365,590 | 8.218.000,700 | 590,230 |
| RAD10-C03-20 | 366.357,730 | 8.217.996,290 | 590,260 |
| RAD10-C03-21 | 366.351,280 | 8.217.990,900 | 590,260 |
| RAD10-C03-22 | 366.346,300 | 8.217.985,140 | 590,280 |
| RAD10-C03-23 | 366.342,890 | 8.217.977,280 | 590,250 |
| RAD10-C03-24 | 366.340,600 | 8.217.968,530 | 590,230 |
| RAD10-C03-25 | 366.339,450 | 8.217.959,410 | 590,220 |
| RAD10-C03-26 | 366.336,590 | 8.217.952,230 | 590,220 |
| RAD10-C03-27 | 366.333,540 | 8.217.944,410 | 590,240 |
| CURVA 04 | | | |
| RAD10-C04-00 | 366.456,380 | 8.218.144,580 | 591,790 |
| RAD10-C04-01 | 366.450,800 | 8.218.138,630 | 591,790 |
| RAD10-C04-02 | 366.445,600 | 8.218.132,670 | 591,780 |
| RAD10-C04-03 | 366.438,750 | 8.218.127,230 | 591,790 |
| RAD10-C04-04 | 366.432,730 | 8.218.121,550 | 591,790 |
| RAD10-C04-05 | 366.427,010 | 8.218.115,390 | 591,770 |
| RAD10-C04-06 | 366.420,370 | 8.218.111,070 | 591,770 |
| RAD10-C04-07 | 366.414,400 | 8.218.106,340 | 591,790 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD10-C04-08 | 366.407,110 | 8.218.101,240 | 591,760 |
| RAD10-C04-09 | 366.399,400 | 8.218.098,230 | 591,770 |
| RAD10-C04-10 | 366.392,790 | 8.218.092,640 | 591,790 |
| RAD10-C04-11 | 366.385,700 | 8.218.087,320 | 591,760 |
| RAD10-C04-12 | 366.378,390 | 8.218.083,770 | 591,780 |
| RAD10-C04-13 | 366.371,290 | 8.218.079,620 | 591,770 |
| RAD10-C04-14 | 366.365,240 | 8.218.074,590 | 591,780 |
| RAD10-C04-15 | 366.357,280 | 8.218.070,230 | 591,780 |
| RAD10-C04-16 | 366.349,340 | 8.218.067,720 | 591,780 |
| RAD10-C04-17 | 366.342,510 | 8.218.063,100 | 591,780 |
| RAD10-C04-18 | 366.335,310 | 8.218.060,200 | 591,790 |
| RAD10-C04-19 | 366.328,200 | 8.218.057,690 | 591,780 |
| RAD10-C04-20 | 366.320,310 | 8.218.056,590 | 591,780 |
| RAD10-C04-21 | 366.312,700 | 8.218.054,880 | 591,770 |
| RAD10-C04-22 | 366.304,430 | 8.218.053,170 | 591,770 |
| RAD10-C04-23 | 366.296,730 | 8.218.052,020 | 591,780 |
| RAD10-C04-24 | 366.288,680 | 8.218.053,780 | 591,790 |
| RAD10-C04-25 | 366.281,000 | 8.218.056,400 | 591,790 |
| RAD10-C04-26 | 366.273,850 | 8.218.059,420 | 591,790 |
| RAD10-C04-27 | 366.269,940 | 8.218.050,800 | 591,810 |
| CURVA 05 | | | |
| RAD10-C05-00 | 366.442,540 | 8.218.168,490 | 592,620 |
| RAD10-C05-01 | 366.437,680 | 8.218.161,520 | 592,600 |
| RAD10-C05-02 | 366.432,650 | 8.218.155,040 | 592,610 |
| RAD10-C05-03 | 366.426,270 | 8.218.146,380 | 592,600 |
| RAD10-C05-04 | 366.418,970 | 8.218.141,450 | 592,620 |
| RAD10-C05-05 | 366.412,140 | 8.218.136,070 | 592,620 |
| RAD10-C05-06 | 366.405,460 | 8.218.131,210 | 592,620 |
| RAD10-C05-07 | 366.399,150 | 8.218.126,760 | 592,630 |
| RAD10-C05-08 | 366.392,000 | 8.218.122,530 | 592,620 |
| RAD10-C05-09 | 366.385,290 | 8.218.118,230 | 592,630 |
| RAD10-C05-10 | 366.378,070 | 8.218.113,410 | 592,600 |
| RAD10-C05-11 | 366.369,920 | 8.218.110,530 | 592,610 |
| RAD10-C05-12 | 366.362,090 | 8.218.107,340 | 592,620 |
| RAD10-C05-13 | 366.354,520 | 8.218.101,290 | 592,590 |
| RAD10-C05-14 | 366.346,780 | 8.218.098,890 | 592,590 |
| RAD10-C05-15 | 366.339,210 | 8.218.096,600 | 592,600 |
| RAD10-C05-16 | 366.330,780 | 8.218.095,310 | 592,590 |
| RAD10-C05-17 | 366.322,860 | 8.218.095,160 | 592,580 |
| RAD10-C05-18 | 366.314,810 | 8.218.095,070 | 592,590 |
| RAD10-C05-19 | 366.306,940 | 8.218.096,700 | 592,640 |
| RAD10-C05-20 | 366.298,460 | 8.218.095,420 | 592,610 |
| RAD10-C05-21 | 366.289,960 | 8.218.094,920 | 592,630 |
| RAD10-C05-22 | 366.282,100 | 8.218.095,250 | 592,630 |
| RAD10-C05-23 | 366.273,610 | 8.218.098,460 | 592,620 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD10-C05-24 | 366.264,330 | 8.218.098,180 | 592,600 |
| RAD10-C05-25 | 366.255,690 | 8.218.099,050 | 592,630 |
| RAD10-C05-26 | 366.246,560 | 8.218.099,170 | 592,610 |
| CURVA 06 | | | |
| RAD10-C06-00 | 366.422,150 | 8.218.208,100 | 593,830 |
| RAD10-C06-01 | 366.416,140 | 8.218.202,060 | 593,840 |
| RAD10-C06-02 | 366.410,300 | 8.218.194,560 | 593,850 |
| RAD10-C06-03 | 366.406,290 | 8.218.186,650 | 593,830 |
| RAD10-C06-04 | 366.400,560 | 8.218.180,360 | 593,850 |
| RAD10-C06-05 | 366.394,830 | 8.218.175,610 | 593,830 |
| RAD10-C06-06 | 366.388,880 | 8.218.169,010 | 593,840 |
| RAD10-C06-07 | 366.381,300 | 8.218.164,370 | 593,820 |
| RAD10-C06-08 | 366.375,930 | 8.218.158,590 | 593,820 |
| RAD10-C06-09 | 366.368,600 | 8.218.154,120 | 593,840 |
| RAD10-C06-10 | 366.360,940 | 8.218.150,650 | 593,830 |
| RAD10-C06-11 | 366.353,640 | 8.218.147,430 | 593,810 |
| RAD10-C06-12 | 366.345,430 | 8.218.146,560 | 593,830 |
| RAD10-C06-13 | 366.337,670 | 8.218.144,290 | 593,830 |
| RAD10-C06-14 | 366.329,980 | 8.218.142,250 | 593,850 |
| RAD10-C06-15 | 366.322,750 | 8.218.139,190 | 593,820 |
| RAD10-C06-16 | 366.314,590 | 8.218.138,730 | 593,810 |
| RAD10-C06-17 | 366.306,120 | 8.218.139,660 | 593,820 |
| RAD10-C06-18 | 366.297,880 | 8.218.141,630 | 593,860 |
| RAD10-C06-19 | 366.289,860 | 8.218.141,100 | 593,840 |
| RAD10-C06-20 | 366.281,840 | 8.218.141,060 | 593,810 |
| RAD10-C06-21 | 366.273,420 | 8.218.139,060 | 593,790 |
| RAD10-C06-22 | 366.265,830 | 8.218.141,030 | 593,800 |
| RAD10-C06-23 | 366.258,180 | 8.218.143,150 | 593,810 |
| RAD10-C06-24 | 366.249,900 | 8.218.144,140 | 593,830 |
| RAD10-C06-25 | 366.241,500 | 8.218.144,740 | 593,830 |
| RAD10-C06-26 | 366.233,640 | 8.218.144,490 | 593,850 |
| RAD10-C06-27 | 366.226,540 | 8.218.143,700 | 593,830 |
| RAD10-C06-28 | 366.218,550 | 8.218.144,800 | 593,830 |

Localção de Terraços - RAD 11

| NOME | ESTE | NORTE | ALTITUDE |
|--------------|-------------|---------------|----------|
| CURVA 01 | | | |
| RAD11-C01-00 | 366.390,500 | 8.218.600,820 | 584,920 |
| RAD11-C01-01 | 366.399,570 | 8.218.601,230 | 584,930 |
| RAD11-C01-02 | 366.408,110 | 8.218.601,550 | 584,910 |
| RAD11-C01-03 | 366.416,030 | 8.218.600,520 | 584,900 |
| RAD11-C01-04 | 366.424,940 | 8.218.598,710 | 584,900 |
| RAD11-C01-05 | 366.433,490 | 8.218.594,110 | 584,920 |
| RAD11-C01-06 | 366.441,480 | 8.218.594,330 | 584,930 |
| RAD11-C01-07 | 366.449,910 | 8.218.596,650 | 584,910 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD11-C01-08 | 366.459,130 | 8.218.597,280 | 584,920 |
| RAD11-C01-09 | 366.467,840 | 8.218.600,460 | 584,910 |
| RAD11-C01-10 | 366.477,050 | 8.218.599,720 | 584,920 |
| RAD11-C01-11 | 366.484,030 | 8.218.593,620 | 584,920 |
| RAD11-C01-12 | 366.491,810 | 8.218.590,440 | 584,920 |
| RAD11-C01-13 | 366.500,190 | 8.218.587,600 | 584,910 |
| RAD11-C01-14 | 366.508,530 | 8.218.585,310 | 584,900 |
| RAD11-C01-15 | 366.515,690 | 8.218.580,240 | 584,930 |
| RAD11-C01-16 | 366.523,670 | 8.218.576,800 | 584,910 |
| RAD11-C01-17 | 366.529,770 | 8.218.570,440 | 584,930 |
| RAD11-C01-18 | 366.535,890 | 8.218.564,940 | 584,910 |
| RAD11-C01-19 | 366.544,200 | 8.218.563,580 | 584,920 |
| RAD11-C01-20 | 366.546,630 | 8.218.554,630 | 584,920 |
| RAD11-C01-21 | 366.551,350 | 8.218.547,460 | 584,930 |
| RAD11-C01-22 | 366.555,230 | 8.218.540,620 | 584,900 |
| RAD11-C01-23 | 366.556,500 | 8.218.533,280 | 584,910 |
| RAD11-C01-24 | 366.560,190 | 8.218.525,740 | 584,910 |
| RAD11-C01-25 | 366.560,770 | 8.218.517,290 | 584,920 |
| RAD11-C01-26 | 366.563,020 | 8.218.510,300 | 584,930 |
| RAD11-C01-27 | 366.566,180 | 8.218.503,180 | 584,920 |
| RAD11-C01-28 | 366.565,350 | 8.218.495,400 | 584,950 |
| RAD11-C01-29 | 366.567,260 | 8.218.487,720 | 584,920 |
| RAD11-C01-30 | 366.568,560 | 8.218.478,880 | 584,910 |
| RAD11-C01-31 | 366.569,510 | 8.218.471,240 | 584,930 |
| RAD11-C01-32 | 366.569,730 | 8.218.462,890 | 584,930 |
| RAD11-C01-33 | 366.569,510 | 8.218.455,220 | 584,930 |
| RAD11-C01-34 | 366.571,050 | 8.218.447,490 | 584,920 |
| RAD11-C01-35 | 366.572,600 | 8.218.439,480 | 584,920 |
| RAD11-C01-36 | 366.573,200 | 8.218.431,440 | 584,930 |
| RAD11-C01-37 | 366.573,450 | 8.218.423,290 | 584,930 |
| RAD11-C01-38 | 366.574,540 | 8.218.415,280 | 584,920 |
| RAD11-C01-39 | 366.575,900 | 8.218.407,660 | 584,930 |
| RAD11-C01-40 | 366.575,480 | 8.218.398,810 | 584,920 |
| RAD11-C01-41 | 366.575,680 | 8.218.390,620 | 584,920 |
| RAD11-C01-42 | 366.575,790 | 8.218.382,380 | 584,930 |
| RAD11-C01-43 | 366.578,340 | 8.218.374,310 | 584,930 |
| RAD11-C01-44 | 366.576,700 | 8.218.366,590 | 584,910 |
| RAD11-C01-45 | 366.575,750 | 8.218.358,490 | 584,930 |
| RAD11-C01-46 | 366.576,740 | 8.218.350,360 | 584,940 |
| RAD11-C01-47 | 366.575,840 | 8.218.342,860 | 584,930 |
| RAD11-C01-48 | 366.574,250 | 8.218.334,680 | 584,930 |
| RAD11-C01-49 | 366.576,000 | 8.218.326,580 | 584,920 |
| RAD11-C01-50 | 366.575,850 | 8.218.317,110 | 584,920 |
| RAD11-C01-51 | 366.574,690 | 8.218.308,760 | 584,920 |
| RAD11-C01-52 | 366.573,130 | 8.218.300,990 | 584,910 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD11-C01-53 | 366.571,700 | 8.218.293,050 | 584,950 |
| RAD11-C01-54 | 366.571,550 | 8.218.284,590 | 584,920 |
| RAD11-C01-55 | 366.571,140 | 8.218.276,500 | 584,910 |
| RAD11-C01-56 | 366.569,110 | 8.218.267,550 | 584,910 |
| RAD11-C01-57 | 366.567,170 | 8.218.259,030 | 584,920 |
| RAD11-C01-58 | 366.566,100 | 8.218.250,140 | 584,940 |
| RAD11-C01-59 | 366.563,310 | 8.218.241,220 | 584,900 |
| RAD11-C01-60 | 366.560,080 | 8.218.232,400 | 584,930 |
| CURVA 02 | | | |
| RAD11-C02-00 | 366.378,580 | 8.218.623,980 | 584,120 |
| RAD11-C02-01 | 366.386,410 | 8.218.623,850 | 584,110 |
| RAD11-C02-02 | 366.394,230 | 8.218.623,990 | 584,120 |
| RAD11-C02-03 | 366.402,370 | 8.218.623,690 | 584,130 |
| RAD11-C02-04 | 366.410,580 | 8.218.621,620 | 584,140 |
| RAD11-C02-05 | 366.417,460 | 8.218.621,670 | 584,130 |
| RAD11-C02-06 | 366.425,220 | 8.218.622,210 | 584,130 |
| RAD11-C02-07 | 366.434,320 | 8.218.622,070 | 584,120 |
| RAD11-C02-08 | 366.442,900 | 8.218.623,560 | 584,110 |
| RAD11-C02-09 | 366.450,550 | 8.218.624,380 | 584,100 |
| RAD11-C02-10 | 366.458,650 | 8.218.622,790 | 584,120 |
| RAD11-C02-11 | 366.466,420 | 8.218.619,600 | 584,110 |
| RAD11-C02-12 | 366.475,450 | 8.218.619,790 | 584,120 |
| RAD11-C02-13 | 366.485,080 | 8.218.620,330 | 584,110 |
| RAD11-C02-14 | 366.493,790 | 8.218.618,810 | 584,120 |
| RAD11-C02-15 | 366.503,350 | 8.218.617,500 | 584,120 |
| RAD11-C02-16 | 366.512,130 | 8.218.614,790 | 584,110 |
| RAD11-C02-17 | 366.519,910 | 8.218.612,190 | 584,140 |
| RAD11-C02-18 | 366.527,800 | 8.218.608,510 | 584,130 |
| RAD11-C02-19 | 366.536,610 | 8.218.607,200 | 584,110 |
| RAD11-C02-20 | 366.543,710 | 8.218.602,060 | 584,110 |
| RAD11-C02-21 | 366.549,670 | 8.218.595,960 | 584,120 |
| RAD11-C02-22 | 366.553,340 | 8.218.588,090 | 584,130 |
| RAD11-C02-23 | 366.557,080 | 8.218.579,620 | 584,120 |
| RAD11-C02-24 | 366.562,530 | 8.218.573,880 | 584,130 |
| RAD11-C02-25 | 366.567,490 | 8.218.566,880 | 584,130 |
| RAD11-C02-26 | 366.572,650 | 8.218.559,540 | 584,130 |
| RAD11-C02-27 | 366.576,600 | 8.218.552,160 | 584,130 |
| RAD11-C02-28 | 366.580,820 | 8.218.544,310 | 584,120 |
| RAD11-C02-29 | 366.581,790 | 8.218.533,930 | 584,100 |
| RAD11-C02-30 | 366.584,850 | 8.218.526,310 | 584,120 |
| RAD11-C02-31 | 366.587,370 | 8.218.519,040 | 584,130 |
| RAD11-C02-32 | 366.586,060 | 8.218.510,100 | 584,120 |
| RAD11-C02-33 | 366.585,530 | 8.218.502,180 | 584,130 |
| RAD11-C02-34 | 366.587,720 | 8.218.494,270 | 584,120 |
| RAD11-C02-35 | 366.586,980 | 8.218.485,380 | 584,140 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD11-C02-36 | 366.589,260 | 8.218.477,790 | 584,120 |
| RAD11-C02-37 | 366.591,120 | 8.218.470,080 | 584,130 |
| RAD11-C02-38 | 366.590,210 | 8.218.461,810 | 584,120 |
| RAD11-C02-39 | 366.590,310 | 8.218.454,030 | 584,130 |
| RAD11-C02-40 | 366.591,030 | 8.218.445,500 | 584,110 |
| RAD11-C02-41 | 366.591,750 | 8.218.437,340 | 584,130 |
| RAD11-C02-42 | 366.592,470 | 8.218.429,140 | 584,140 |
| RAD11-C02-43 | 366.592,410 | 8.218.420,110 | 584,120 |
| RAD11-C02-44 | 366.594,910 | 8.218.409,920 | 584,110 |
| RAD11-C02-45 | 366.593,930 | 8.218.402,620 | 584,130 |
| RAD11-C02-46 | 366.596,850 | 8.218.395,060 | 584,130 |
| RAD11-C02-47 | 366.596,190 | 8.218.387,670 | 584,120 |
| RAD11-C02-48 | 366.596,310 | 8.218.380,430 | 584,140 |
| RAD11-C02-49 | 366.595,740 | 8.218.371,450 | 584,130 |
| RAD11-C02-50 | 366.596,370 | 8.218.364,140 | 584,130 |
| RAD11-C02-51 | 366.594,460 | 8.218.355,960 | 584,120 |
| RAD11-C02-52 | 366.594,200 | 8.218.348,430 | 584,120 |
| RAD11-C02-53 | 366.593,770 | 8.218.340,400 | 584,110 |
| RAD11-C02-54 | 366.593,220 | 8.218.332,690 | 584,110 |
| RAD11-C02-55 | 366.593,610 | 8.218.325,040 | 584,140 |
| RAD11-C02-56 | 366.593,020 | 8.218.317,860 | 584,120 |
| RAD11-C02-57 | 366.593,310 | 8.218.310,180 | 584,120 |
| RAD11-C02-58 | 366.593,210 | 8.218.302,490 | 584,130 |
| RAD11-C02-59 | 366.592,930 | 8.218.293,290 | 584,120 |
| RAD11-C02-60 | 366.591,850 | 8.218.285,120 | 584,120 |
| RAD11-C02-61 | 366.590,730 | 8.218.276,490 | 584,100 |
| RAD11-C02-62 | 366.590,100 | 8.218.268,350 | 584,130 |
| RAD11-C02-63 | 366.589,580 | 8.218.260,940 | 584,110 |
| RAD11-C02-64 | 366.587,410 | 8.218.253,180 | 584,110 |
| RAD11-C02-65 | 366.585,010 | 8.218.245,130 | 584,130 |
| RAD11-C02-66 | 366.583,910 | 8.218.237,440 | 584,120 |
| RAD11-C02-67 | 366.581,150 | 8.218.228,970 | 584,120 |
| RAD11-C02-68 | 366.578,040 | 8.218.221,710 | 584,130 |
| RAD11-C02-69 | 366.575,950 | 8.218.213,990 | 584,130 |
| RAD11-C02-70 | 366.574,320 | 8.218.207,620 | 584,140 |
| RAD11-C02-71 | 366.575,450 | 8.218.198,860 | 584,100 |
| RAD11-C02-72 | 366.571,100 | 8.218.190,380 | 584,120 |
| RAD11-C02-73 | 366.568,540 | 8.218.182,750 | 584,100 |
| RAD11-C02-74 | 366.564,410 | 8.218.175,310 | 584,120 |
| RAD11-C02-75 | 366.562,400 | 8.218.168,410 | 584,110 |
| RAD11-C02-76 | 366.560,760 | 8.218.161,130 | 584,100 |
| RAD11-C02-77 | 366.557,350 | 8.218.153,890 | 584,110 |
| CURVA 03 | | | |
| RAD11-C03-00 | 366.607,670 | 8.218.556,660 | 583,150 |
| RAD11-C03-01 | 366.607,430 | 8.218.548,250 | 583,150 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD11-C03-02 | 366.608,260 | 8.218.539,900 | 583,150 |
| RAD11-C03-03 | 366.608,820 | 8.218.531,860 | 583,140 |
| RAD11-C03-04 | 366.608,820 | 8.218.523,350 | 583,160 |
| RAD11-C03-05 | 366.608,910 | 8.218.515,270 | 583,150 |
| RAD11-C03-06 | 366.610,800 | 8.218.507,190 | 583,150 |
| RAD11-C03-07 | 366.610,680 | 8.218.499,120 | 583,160 |
| RAD11-C03-08 | 366.612,580 | 8.218.490,780 | 583,150 |
| RAD11-C03-09 | 366.612,250 | 8.218.483,410 | 583,130 |
| RAD11-C03-10 | 366.613,440 | 8.218.475,110 | 583,130 |
| RAD11-C03-11 | 366.612,770 | 8.218.466,580 | 583,140 |
| RAD11-C03-12 | 366.613,140 | 8.218.458,640 | 583,140 |
| RAD11-C03-13 | 366.612,670 | 8.218.450,270 | 583,160 |
| RAD11-C03-14 | 366.613,480 | 8.218.442,340 | 583,140 |
| RAD11-C03-15 | 366.615,360 | 8.218.434,150 | 583,140 |
| RAD11-C03-16 | 366.613,850 | 8.218.425,900 | 583,160 |
| RAD11-C03-17 | 366.615,540 | 8.218.417,060 | 583,150 |
| RAD11-C03-18 | 366.615,780 | 8.218.409,370 | 583,130 |
| RAD11-C03-19 | 366.617,890 | 8.218.401,230 | 583,150 |
| RAD11-C03-20 | 366.618,590 | 8.218.392,640 | 583,130 |
| RAD11-C03-21 | 366.618,940 | 8.218.381,930 | 583,110 |
| RAD11-C03-22 | 366.619,270 | 8.218.372,580 | 583,140 |
| RAD11-C03-23 | 366.618,730 | 8.218.365,690 | 583,110 |
| RAD11-C03-24 | 366.619,070 | 8.218.357,700 | 583,140 |
| RAD11-C03-25 | 366.619,220 | 8.218.349,920 | 583,150 |
| RAD11-C03-26 | 366.619,760 | 8.218.342,610 | 583,110 |
| RAD11-C03-27 | 366.621,200 | 8.218.335,080 | 583,130 |
| RAD11-C03-28 | 366.621,170 | 8.218.327,490 | 583,140 |
| RAD11-C03-29 | 366.620,190 | 8.218.319,550 | 583,130 |
| RAD11-C03-30 | 366.618,900 | 8.218.311,930 | 583,140 |
| RAD11-C03-31 | 366.618,420 | 8.218.304,250 | 583,140 |
| RAD11-C03-32 | 366.616,720 | 8.218.296,130 | 583,150 |
| RAD11-C03-33 | 366.618,020 | 8.218.288,290 | 583,130 |
| RAD11-C03-34 | 366.615,650 | 8.218.281,540 | 583,150 |
| RAD11-C03-35 | 366.615,130 | 8.218.272,170 | 583,120 |
| RAD11-C03-36 | 366.613,910 | 8.218.264,050 | 583,140 |
| RAD11-C03-37 | 366.613,130 | 8.218.255,850 | 583,130 |
| RAD11-C03-38 | 366.610,600 | 8.218.248,440 | 583,120 |
| RAD11-C03-39 | 366.608,270 | 8.218.239,990 | 583,110 |
| RAD11-C03-40 | 366.607,020 | 8.218.232,260 | 583,130 |
| RAD11-C03-41 | 366.604,180 | 8.218.224,610 | 583,140 |
| RAD11-C03-42 | 366.603,060 | 8.218.216,490 | 583,150 |
| RAD11-C03-43 | 366.600,180 | 8.218.209,040 | 583,150 |
| RAD11-C03-44 | 366.598,750 | 8.218.200,780 | 583,130 |
| RAD11-C03-45 | 366.595,630 | 8.218.193,510 | 583,150 |
| RAD11-C03-46 | 366.593,900 | 8.218.185,860 | 583,120 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD11-C03-47 | 366.591,190 | 8.218.178,880 | 583,120 |
| RAD11-C03-48 | 366.586,940 | 8.218.172,860 | 583,170 |
| RAD11-C03-49 | 366.585,600 | 8.218.165,310 | 583,160 |
| RAD11-C03-50 | 366.583,030 | 8.218.156,550 | 583,160 |
| CURVA 04 | | | |
| RAD11-C04-00 | 366.645,670 | 8.218.546,420 | 581,510 |
| RAD11-C04-01 | 366.644,890 | 8.218.538,420 | 581,490 |
| RAD11-C04-02 | 366.644,590 | 8.218.531,010 | 581,510 |
| RAD11-C04-03 | 366.643,770 | 8.218.523,150 | 581,530 |
| RAD11-C04-04 | 366.642,400 | 8.218.515,150 | 581,510 |
| RAD11-C04-05 | 366.642,540 | 8.218.507,990 | 581,580 |
| RAD11-C04-06 | 366.642,910 | 8.218.498,310 | 581,530 |
| RAD11-C04-07 | 366.644,050 | 8.218.490,390 | 581,500 |
| RAD11-C04-08 | 366.644,150 | 8.218.482,050 | 581,510 |
| RAD11-C04-09 | 366.644,990 | 8.218.473,530 | 581,500 |
| RAD11-C04-10 | 366.643,990 | 8.218.465,840 | 581,510 |
| RAD11-C04-11 | 366.645,260 | 8.218.458,000 | 581,510 |
| RAD11-C04-12 | 366.646,440 | 8.218.449,880 | 581,510 |
| RAD11-C04-13 | 366.646,250 | 8.218.441,260 | 581,500 |
| RAD11-C04-14 | 366.646,310 | 8.218.433,710 | 581,520 |
| RAD11-C04-15 | 366.646,310 | 8.218.425,760 | 581,530 |
| RAD11-C04-16 | 366.647,740 | 8.218.417,960 | 581,520 |
| RAD11-C04-17 | 366.649,150 | 8.218.410,030 | 581,500 |
| RAD11-C04-18 | 366.650,380 | 8.218.401,920 | 581,500 |
| RAD11-C04-19 | 366.651,550 | 8.218.393,780 | 581,520 |
| RAD11-C04-20 | 366.651,720 | 8.218.385,630 | 581,510 |
| RAD11-C04-21 | 366.652,390 | 8.218.375,390 | 581,510 |
| RAD11-C04-22 | 366.652,630 | 8.218.367,210 | 581,520 |
| RAD11-C04-23 | 366.653,220 | 8.218.359,050 | 581,510 |
| RAD11-C04-24 | 366.653,960 | 8.218.351,340 | 581,520 |
| RAD11-C04-25 | 366.653,030 | 8.218.343,630 | 581,510 |
| RAD11-C04-26 | 366.655,810 | 8.218.336,850 | 581,500 |
| RAD11-C04-27 | 366.654,350 | 8.218.327,510 | 581,500 |
| RAD11-C04-28 | 366.653,310 | 8.218.320,190 | 581,510 |
| RAD11-C04-29 | 366.652,900 | 8.218.312,880 | 581,540 |
| RAD11-C04-30 | 366.652,970 | 8.218.305,060 | 581,490 |
| RAD11-C04-31 | 366.652,220 | 8.218.295,630 | 581,520 |
| RAD11-C04-32 | 366.651,500 | 8.218.287,370 | 581,510 |
| RAD11-C04-33 | 366.652,250 | 8.218.279,370 | 581,520 |
| RAD11-C04-34 | 366.650,700 | 8.218.272,410 | 581,520 |
| RAD11-C04-35 | 366.649,800 | 8.218.264,200 | 581,530 |
| RAD11-C04-36 | 366.649,690 | 8.218.256,580 | 581,500 |
| RAD11-C04-37 | 366.647,040 | 8.218.249,090 | 581,490 |
| RAD11-C04-38 | 366.643,590 | 8.218.241,970 | 581,530 |
| RAD11-C04-39 | 366.640,690 | 8.218.234,650 | 581,530 |

| CURVA 05 | | | |
|--------------|-------------|---------------|---------|
| RAD11-C05-00 | 366.723,540 | 8.218.547,550 | 577,780 |
| RAD11-C05-01 | 366.728,370 | 8.218.555,450 | 577,780 |
| RAD11-C05-02 | 366.730,250 | 8.218.563,630 | 577,790 |
| RAD11-C05-03 | 366.731,970 | 8.218.572,140 | 577,810 |
| RAD11-C05-04 | 366.732,270 | 8.218.580,120 | 577,770 |
| RAD11-C05-05 | 366.733,600 | 8.218.588,360 | 577,750 |
| RAD11-C05-06 | 366.734,560 | 8.218.596,410 | 577,780 |
| RAD11-C05-07 | 366.733,890 | 8.218.604,580 | 577,760 |
| RAD11-C05-08 | 366.734,470 | 8.218.612,270 | 577,790 |
| RAD11-C05-09 | 366.735,500 | 8.218.619,670 | 577,780 |
| RAD11-C05-10 | 366.736,370 | 8.218.627,050 | 577,780 |
| RAD11-C05-11 | 366.735,050 | 8.218.635,490 | 577,760 |
| RAD11-C05-12 | 366.735,850 | 8.218.643,980 | 577,760 |
| RAD11-C05-13 | 366.735,950 | 8.218.652,140 | 577,780 |
| RAD11-C05-14 | 366.730,380 | 8.218.659,080 | 577,770 |
| RAD11-C05-15 | 366.728,390 | 8.218.667,060 | 577,790 |
| RAD11-C05-16 | 366.726,500 | 8.218.675,090 | 577,770 |
| RAD11-C05-17 | 366.729,150 | 8.218.682,920 | 577,780 |
| RAD11-C05-18 | 366.725,370 | 8.218.690,500 | 577,750 |
| RAD11-C05-19 | 366.722,610 | 8.218.698,410 | 577,800 |
| RAD11-C05-20 | 366.720,310 | 8.218.706,890 | 577,750 |
| RAD11-C05-21 | 366.714,740 | 8.218.714,800 | 577,770 |
| RAD11-C05-22 | 366.707,600 | 8.218.721,660 | 577,790 |
| RAD11-C05-23 | 366.697,310 | 8.218.733,740 | 577,760 |
| RAD11-C05-24 | 366.689,200 | 8.218.739,330 | 577,780 |
| RAD11-C05-25 | 366.680,810 | 8.218.740,930 | 577,790 |
| RAD11-C05-26 | 366.674,090 | 8.218.746,200 | 577,790 |
| CURVA 06 | | | |
| RAD11-C06-00 | 366.786,230 | 8.218.532,000 | 575,060 |
| RAD11-C06-01 | 366.790,420 | 8.218.540,240 | 575,060 |
| RAD11-C06-02 | 366.792,310 | 8.218.548,020 | 575,050 |
| RAD11-C06-03 | 366.797,050 | 8.218.555,060 | 575,080 |
| RAD11-C06-04 | 366.798,810 | 8.218.562,380 | 575,050 |
| RAD11-C06-05 | 366.796,110 | 8.218.570,090 | 575,080 |
| RAD11-C06-06 | 366.796,020 | 8.218.578,440 | 575,070 |
| RAD11-C06-07 | 366.796,630 | 8.218.586,430 | 575,070 |
| RAD11-C06-08 | 366.796,220 | 8.218.594,340 | 575,080 |
| RAD11-C06-09 | 366.795,940 | 8.218.601,600 | 575,080 |
| RAD11-C06-10 | 366.796,070 | 8.218.609,600 | 575,070 |
| RAD11-C06-11 | 366.795,970 | 8.218.618,060 | 575,070 |
| RAD11-C06-12 | 366.794,870 | 8.218.626,620 | 575,060 |
| RAD11-C06-13 | 366.794,640 | 8.218.635,010 | 575,040 |
| RAD11-C06-14 | 366.794,130 | 8.218.642,530 | 575,050 |
| RAD11-C06-15 | 366.793,260 | 8.218.650,160 | 575,060 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD11-C06-16 | 366.794,250 | 8.218.657,830 | 575,050 |
| RAD11-C06-17 | 366.791,400 | 8.218.666,420 | 575,050 |
| RAD11-C06-18 | 366.791,060 | 8.218.674,770 | 575,090 |
| RAD11-C06-19 | 366.793,020 | 8.218.682,240 | 575,070 |
| RAD11-C06-20 | 366.793,570 | 8.218.689,980 | 575,050 |
| RAD11-C06-21 | 366.793,240 | 8.218.697,520 | 575,060 |
| RAD11-C06-22 | 366.791,440 | 8.218.705,130 | 575,070 |
| RAD11-C06-23 | 366.790,270 | 8.218.713,160 | 575,050 |
| RAD11-C06-24 | 366.788,620 | 8.218.721,110 | 575,040 |
| RAD11-C06-25 | 366.786,540 | 8.218.728,620 | 575,060 |
| RAD11-C06-26 | 366.785,450 | 8.218.736,360 | 575,050 |
| RAD11-C06-27 | 366.783,930 | 8.218.743,980 | 575,040 |
| RAD11-C06-28 | 366.780,820 | 8.218.750,860 | 575,050 |
| RAD11-C06-29 | 366.776,110 | 8.218.757,440 | 575,050 |
| RAD11-C06-30 | 366.772,090 | 8.218.763,870 | 575,060 |
| RAD11-C06-31 | 366.767,560 | 8.218.770,350 | 575,040 |
| RAD11-C06-32 | 366.759,850 | 8.218.774,980 | 575,070 |
| RAD11-C06-33 | 366.754,660 | 8.218.779,900 | 575,070 |
| RAD11-C06-34 | 366.748,640 | 8.218.784,620 | 575,030 |
| RAD11-C06-35 | 366.740,440 | 8.218.787,650 | 575,090 |
| RAD11-C06-36 | 366.733,570 | 8.218.791,900 | 575,080 |
| RAD11-C06-37 | 366.726,330 | 8.218.794,400 | 575,070 |
| RAD11-C06-38 | 366.717,780 | 8.218.797,710 | 575,070 |
| CURVA 07 | | | |
| RAD11-C07-00 | 366.862,740 | 8.218.512,250 | 573,200 |
| RAD11-C07-01 | 366.861,850 | 8.218.521,080 | 573,170 |
| RAD11-C07-02 | 366.860,190 | 8.218.529,430 | 573,200 |
| RAD11-C07-03 | 366.860,450 | 8.218.538,200 | 573,230 |
| RAD11-C07-04 | 366.860,430 | 8.218.546,100 | 573,200 |
| RAD11-C07-05 | 366.858,710 | 8.218.553,860 | 573,200 |
| RAD11-C07-06 | 366.857,690 | 8.218.561,930 | 573,180 |
| RAD11-C07-07 | 366.857,140 | 8.218.570,640 | 573,210 |
| RAD11-C07-08 | 366.854,960 | 8.218.578,620 | 573,210 |
| RAD11-C07-09 | 366.852,630 | 8.218.585,950 | 573,220 |
| RAD11-C07-10 | 366.849,420 | 8.218.593,250 | 573,220 |
| RAD11-C07-11 | 366.847,460 | 8.218.600,610 | 573,210 |
| RAD11-C07-12 | 366.845,590 | 8.218.609,010 | 573,220 |
| RAD11-C07-13 | 366.844,380 | 8.218.617,490 | 573,200 |
| RAD11-C07-14 | 366.843,240 | 8.218.625,940 | 573,180 |
| RAD11-C07-15 | 366.841,310 | 8.218.633,420 | 573,220 |
| RAD11-C07-16 | 366.840,730 | 8.218.641,090 | 573,210 |
| RAD11-C07-17 | 366.840,400 | 8.218.649,750 | 573,200 |
| RAD11-C07-18 | 366.840,920 | 8.218.657,530 | 573,190 |
| RAD11-C07-19 | 366.842,100 | 8.218.665,660 | 573,220 |
| RAD11-C07-20 | 366.840,970 | 8.218.673,830 | 573,210 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD11-C07-21 | 366.840,020 | 8.218.681,800 | 573,220 |
| RAD11-C07-22 | 366.839,060 | 8.218.688,630 | 573,200 |
| RAD11-C07-23 | 366.837,300 | 8.218.695,940 | 573,190 |
| RAD11-C07-24 | 366.835,910 | 8.218.702,880 | 573,200 |
| RAD11-C07-25 | 366.835,930 | 8.218.711,450 | 573,220 |
| RAD11-C07-26 | 366.834,650 | 8.218.719,460 | 573,200 |
| RAD11-C07-27 | 366.833,060 | 8.218.727,680 | 573,210 |
| RAD11-C07-28 | 366.832,560 | 8.218.735,370 | 573,210 |
| RAD11-C07-29 | 366.831,400 | 8.218.742,980 | 573,220 |
| RAD11-C07-30 | 366.829,210 | 8.218.750,920 | 573,180 |
| RAD11-C07-31 | 366.826,730 | 8.218.758,150 | 573,210 |
| RAD11-C07-32 | 366.824,570 | 8.218.765,670 | 573,200 |
| RAD11-C07-33 | 366.822,190 | 8.218.773,050 | 573,200 |
| RAD11-C07-34 | 366.818,460 | 8.218.780,610 | 573,200 |
| RAD11-C07-35 | 366.814,870 | 8.218.787,760 | 573,220 |
| RAD11-C07-36 | 366.811,870 | 8.218.795,540 | 573,200 |
| RAD11-C07-37 | 366.806,810 | 8.218.801,880 | 573,200 |
| RAD11-C07-38 | 366.800,990 | 8.218.808,590 | 573,180 |
| RAD11-C07-39 | 366.794,650 | 8.218.813,580 | 573,190 |
| RAD11-C07-40 | 366.787,340 | 8.218.816,810 | 573,230 |
| RAD11-C07-41 | 366.780,460 | 8.218.819,260 | 573,200 |
| RAD11-C07-42 | 366.771,900 | 8.218.821,640 | 573,210 |
| RAD11-C07-43 | 366.764,100 | 8.218.824,980 | 573,190 |
| RAD11-C07-44 | 366.758,110 | 8.218.829,730 | 573,190 |
| RAD11-C07-45 | 366.749,950 | 8.218.830,140 | 573,210 |
| RAD11-C07-46 | 366.743,510 | 8.218.833,720 | 573,170 |

Locação de Terraços - RAD 12

| NOME | ESTE | NORTE | ALTITUDE |
|---------------|-------------|---------------|----------|
| CURVA 01 | | | |
| RAD12-C01-00 | 366.676,570 | 8.221.336,520 | 566,590 |
| RAD12-C01-01 | 366.682,150 | 8.221.350,670 | 566,390 |
| RAD12-C01-02 | 366.676,600 | 8.221.365,180 | 566,570 |
| RAD12-C01-03 | 366.663,830 | 8.221.374,950 | 566,610 |
| RAD12-C01-04 | 366.659,210 | 8.221.388,440 | 566,580 |
| RAD12-C01-05 | 366.651,130 | 8.221.403,030 | 566,570 |
| RAD12-C01-06 | 366.645,730 | 8.221.417,890 | 566,550 |
| RAD12-C01-07 | 366.641,200 | 8.221.431,560 | 566,540 |
| CURVA 02 | | | |
| RAD 12-C02-00 | 366.706,490 | 8.221.306,610 | 565,920 |
| RAD 12-C02-01 | 366.704,950 | 8.221.319,480 | 565,900 |
| RAD 12-C02-02 | 366.706,100 | 8.221.332,920 | 565,930 |
| RAD 12-C02-03 | 366.698,590 | 8.221.345,400 | 565,910 |
| RAD 12-C02-04 | 366.697,450 | 8.221.357,140 | 565,900 |
| RAD 12-C02-05 | 366.693,900 | 8.221.368,910 | 565,910 |

| | | | |
|---------------|-------------|---------------|---------|
| RAD 12-C02-06 | 366.690,050 | 8.221.380,520 | 565,930 |
| RAD 12-C02-07 | 366.685,950 | 8.221.392,710 | 565,920 |
| RAD 12-C02-08 | 366.680,640 | 8.221.405,550 | 565,910 |
| RAD 12-C02-09 | 366.676,680 | 8.221.417,820 | 565,900 |
| RAD 12-C02-10 | 366.671,420 | 8.221.430,110 | 565,910 |
| RAD 12-C02-11 | 366.666,600 | 8.221.449,230 | 565,890 |
| RAD 12-C02-12 | 366.657,780 | 8.221.462,040 | 565,900 |
| RAD 12-C02-13 | 366.645,820 | 8.221.480,630 | 565,890 |
| RAD 12-C02-14 | 366.637,910 | 8.221.493,330 | 565,920 |
| RAD 12-C02-15 | 366.631,540 | 8.221.505,290 | 565,890 |
| CURVA 03 | | | |
| RAD12-C03-00 | 366.727,910 | 8.221.274,010 | 565,100 |
| RAD12-C03-01 | 366.732,220 | 8.221.289,560 | 565,090 |
| RAD12-C03-02 | 366.732,860 | 8.221.303,550 | 565,050 |
| RAD12-C03-03 | 366.730,790 | 8.221.315,170 | 565,070 |
| RAD12-C03-04 | 366.730,410 | 8.221.329,430 | 565,070 |
| RAD12-C03-05 | 366.729,260 | 8.221.342,020 | 565,080 |
| RAD12-C03-06 | 366.727,390 | 8.221.355,490 | 565,050 |
| RAD12-C03-07 | 366.731,280 | 8.221.370,670 | 565,060 |
| RAD12-C03-08 | 366.725,990 | 8.221.383,170 | 565,070 |
| RAD12-C03-09 | 366.723,900 | 8.221.397,480 | 565,100 |
| RAD12-C03-10 | 366.716,130 | 8.221.408,450 | 565,080 |
| RAD12-C03-11 | 366.711,120 | 8.221.421,370 | 565,080 |
| RAD12-C03-12 | 366.705,940 | 8.221.434,600 | 565,060 |
| RAD12-C03-13 | 366.701,120 | 8.221.446,800 | 565,060 |
| RAD12-C03-14 | 366.696,200 | 8.221.458,140 | 565,050 |
| RAD12-C03-15 | 366.689,960 | 8.221.468,770 | 565,060 |
| RAD12-C03-16 | 366.683,140 | 8.221.479,780 | 565,090 |
| RAD12-C03-17 | 366.674,870 | 8.221.493,020 | 565,080 |
| RAD12-C03-18 | 366.666,780 | 8.221.505,270 | 565,110 |
| RAD12-C03-19 | 366.662,470 | 8.221.517,230 | 565,060 |
| RAD12-C03-20 | 366.656,860 | 8.221.529,840 | 565,050 |
| RAD12-C03-21 | 366.652,330 | 8.221.540,360 | 565,100 |
| RAD12-C03-22 | 366.640,270 | 8.221.553,450 | 565,080 |
| RAD12-C03-23 | 366.634,320 | 8.221.565,900 | 565,050 |
| RAD12-C03-24 | 366.626,870 | 8.221.577,610 | 565,080 |
| CURVA 04 | | | |
| RAD12-C04-00 | 366.746,520 | 8.221.248,380 | 564,220 |
| RAD12-C04-01 | 366.747,990 | 8.221.262,090 | 564,230 |
| RAD12-C04-02 | 366.750,810 | 8.221.275,080 | 564,220 |
| RAD12-C04-03 | 366.751,940 | 8.221.287,730 | 564,250 |
| RAD12-C04-04 | 366.752,630 | 8.221.300,740 | 564,240 |
| RAD12-C04-05 | 366.755,890 | 8.221.312,720 | 564,200 |
| RAD12-C04-06 | 366.753,620 | 8.221.325,750 | 564,230 |
| RAD12-C04-07 | 366.757,720 | 8.221.341,540 | 564,210 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD12-C04-08 | 366.755,070 | 8.221.353,430 | 564,210 |
| RAD12-C04-09 | 366.754,160 | 8.221.367,680 | 564,210 |
| RAD12-C04-10 | 366.753,350 | 8.221.379,630 | 564,220 |
| RAD12-C04-11 | 366.751,000 | 8.221.392,460 | 564,220 |
| RAD12-C04-12 | 366.747,820 | 8.221.405,660 | 564,230 |
| RAD12-C04-13 | 366.746,360 | 8.221.417,750 | 564,200 |
| RAD12-C04-14 | 366.743,530 | 8.221.430,530 | 564,230 |
| RAD12-C04-15 | 366.738,850 | 8.221.443,300 | 564,210 |
| RAD12-C04-16 | 366.735,480 | 8.221.454,940 | 564,220 |
| RAD12-C04-17 | 366.731,010 | 8.221.466,970 | 564,200 |
| RAD12-C04-18 | 366.723,650 | 8.221.480,590 | 564,240 |
| RAD12-C04-19 | 366.718,130 | 8.221.490,680 | 564,230 |
| RAD12-C04-20 | 366.714,620 | 8.221.500,670 | 564,240 |
| RAD12-C04-21 | 366.708,600 | 8.221.512,610 | 564,200 |
| RAD12-C04-22 | 366.703,930 | 8.221.525,560 | 564,230 |
| RAD12-C04-23 | 366.692,360 | 8.221.536,990 | 564,210 |
| RAD12-C04-24 | 366.684,480 | 8.221.546,470 | 564,240 |
| RAD12-C04-25 | 366.679,020 | 8.221.558,100 | 564,230 |
| RAD12-C04-26 | 366.673,730 | 8.221.572,050 | 564,200 |
| RAD12-C04-27 | 366.665,540 | 8.221.584,620 | 564,230 |
| RAD12-C04-28 | 366.657,740 | 8.221.595,470 | 564,210 |
| RAD12-C04-29 | 366.650,960 | 8.221.606,810 | 564,230 |
| RAD12-C04-30 | 366.648,190 | 8.221.620,880 | 564,210 |
| RAD12-C04-31 | 366.634,850 | 8.221.632,720 | 564,220 |
| RAD12-C04-32 | 366.627,210 | 8.221.643,850 | 564,230 |
| RAD12-C04-33 | 366.618,570 | 8.221.657,600 | 564,230 |
| RAD12-C04-34 | 366.613,950 | 8.221.668,530 | 564,230 |
| CURVA 05 | | | |
| RAD12-C05-00 | 366.758,100 | 8.221.236,190 | 563,500 |
| RAD12-C05-01 | 366.763,360 | 8.221.255,150 | 563,530 |
| RAD12-C05-02 | 366.763,530 | 8.221.269,520 | 563,560 |
| RAD12-C05-03 | 366.766,950 | 8.221.283,570 | 563,540 |
| RAD12-C05-04 | 366.768,310 | 8.221.297,060 | 563,510 |
| RAD12-C05-05 | 366.768,160 | 8.221.310,100 | 563,530 |
| RAD12-C05-06 | 366.771,920 | 8.221.324,900 | 563,530 |
| RAD12-C05-07 | 366.770,630 | 8.221.338,220 | 563,550 |
| RAD12-C05-08 | 366.773,470 | 8.221.350,660 | 563,520 |
| RAD12-C05-09 | 366.773,580 | 8.221.363,280 | 563,530 |
| RAD12-C05-10 | 366.775,440 | 8.221.376,780 | 563,510 |
| RAD12-C05-11 | 366.776,770 | 8.221.386,180 | 563,540 |
| RAD12-C05-12 | 366.774,970 | 8.221.399,440 | 563,520 |
| RAD12-C05-13 | 366.771,910 | 8.221.413,060 | 563,550 |
| RAD12-C05-14 | 366.770,180 | 8.221.425,750 | 563,510 |
| RAD12-C05-15 | 366.766,910 | 8.221.439,510 | 563,530 |
| RAD12-C05-16 | 366.762,250 | 8.221.451,820 | 563,540 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD12-C05-17 | 366.760,030 | 8.221.465,630 | 563,530 |
| RAD12-C05-18 | 366.756,320 | 8.221.477,720 | 563,550 |
| RAD12-C05-19 | 366.753,370 | 8.221.490,200 | 563,530 |
| RAD12-C05-20 | 366.747,340 | 8.221.504,750 | 563,500 |
| RAD12-C05-21 | 366.737,610 | 8.221.515,200 | 563,530 |
| RAD12-C05-22 | 366.729,990 | 8.221.527,690 | 563,530 |
| RAD12-C05-23 | 366.723,220 | 8.221.540,350 | 563,540 |
| RAD12-C05-24 | 366.718,310 | 8.221.553,330 | 563,520 |
| RAD12-C05-25 | 366.711,930 | 8.221.563,430 | 563,530 |
| RAD12-C05-26 | 366.706,700 | 8.221.573,020 | 563,500 |
| RAD12-C05-27 | 366.698,500 | 8.221.585,370 | 563,500 |
| RAD12-C05-28 | 366.694,570 | 8.221.598,110 | 563,540 |
| RAD12-C05-29 | 366.681,970 | 8.221.611,640 | 563,540 |
| RAD12-C05-30 | 366.676,130 | 8.221.623,130 | 563,520 |
| RAD12-C05-31 | 366.669,520 | 8.221.634,450 | 563,550 |
| RAD12-C05-32 | 366.663,790 | 8.221.645,980 | 563,520 |
| RAD12-C05-33 | 366.655,460 | 8.221.654,920 | 563,530 |
| RAD12-C05-34 | 366.649,510 | 8.221.666,360 | 563,510 |
| RAD12-C05-35 | 366.643,230 | 8.221.677,020 | 563,540 |
| RAD12-C05-36 | 366.638,750 | 8.221.689,070 | 563,540 |
| RAD12-C05-37 | 366.627,120 | 8.221.698,690 | 563,510 |
| RAD12-C05-38 | 366.620,770 | 8.221.709,780 | 563,520 |
| RAD12-C05-39 | 366.614,470 | 8.221.720,530 | 563,530 |
| RAD12-C05-40 | 366.606,670 | 8.221.729,830 | 563,530 |
| CURVA 06 | | | |
| RAD12-C06-00 | 366.786,550 | 8.221.225,010 | 562,280 |
| RAD12-C06-01 | 366.792,570 | 8.221.239,730 | 562,280 |
| RAD12-C06-02 | 366.791,220 | 8.221.260,040 | 562,310 |
| RAD12-C06-03 | 366.793,180 | 8.221.271,730 | 562,260 |
| RAD12-C06-04 | 366.793,460 | 8.221.284,570 | 562,260 |
| RAD12-C06-05 | 366.795,670 | 8.221.298,220 | 562,280 |
| RAD12-C06-06 | 366.796,320 | 8.221.310,820 | 562,300 |
| RAD12-C06-07 | 366.795,720 | 8.221.324,480 | 562,280 |
| RAD12-C06-08 | 366.796,070 | 8.221.336,920 | 562,280 |
| RAD12-C06-09 | 366.799,790 | 8.221.347,980 | 562,300 |
| RAD12-C06-10 | 366.802,610 | 8.221.360,200 | 562,280 |
| RAD12-C06-11 | 366.803,970 | 8.221.373,210 | 562,260 |
| RAD12-C06-12 | 366.808,350 | 8.221.386,590 | 562,260 |
| RAD12-C06-13 | 366.808,420 | 8.221.399,320 | 562,280 |
| RAD12-C06-14 | 366.810,130 | 8.221.413,070 | 562,280 |
| RAD12-C06-15 | 366.815,000 | 8.221.426,780 | 562,280 |
| RAD12-C06-16 | 366.814,950 | 8.221.440,930 | 562,260 |
| RAD12-C06-17 | 366.813,450 | 8.221.453,530 | 562,250 |
| RAD12-C06-18 | 366.810,990 | 8.221.467,070 | 562,270 |
| RAD12-C06-19 | 366.808,910 | 8.221.480,980 | 562,270 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD12-C06-20 | 366.805,910 | 8.221.494,020 | 562,260 |
| RAD12-C06-21 | 366.801,240 | 8.221.506,910 | 562,290 |
| RAD12-C06-22 | 366.798,540 | 8.221.525,560 | 562,300 |
| RAD12-C06-23 | 366.795,960 | 8.221.538,020 | 562,290 |
| RAD12-C06-24 | 366.786,070 | 8.221.546,610 | 562,260 |
| RAD12-C06-25 | 366.775,930 | 8.221.555,720 | 562,270 |
| RAD12-C06-26 | 366.769,750 | 8.221.567,570 | 562,290 |
| RAD12-C06-27 | 366.765,300 | 8.221.580,120 | 562,270 |
| RAD12-C06-28 | 366.758,450 | 8.221.591,480 | 562,270 |
| RAD12-C06-29 | 366.749,030 | 8.221.601,320 | 562,280 |
| RAD12-C06-30 | 366.743,910 | 8.221.613,260 | 562,270 |
| RAD12-C06-31 | 366.735,650 | 8.221.623,280 | 562,300 |
| RAD12-C06-32 | 366.731,790 | 8.221.637,310 | 562,300 |
| RAD12-C06-33 | 366.722,610 | 8.221.648,020 | 562,270 |
| RAD12-C06-34 | 366.713,560 | 8.221.657,900 | 562,300 |
| RAD12-C06-35 | 366.707,110 | 8.221.670,640 | 562,280 |
| RAD12-C06-36 | 366.701,630 | 8.221.683,000 | 562,270 |
| RAD12-C06-37 | 366.692,030 | 8.221.693,100 | 562,300 |
| RAD12-C06-38 | 366.686,050 | 8.221.705,140 | 562,280 |
| RAD12-C06-39 | 366.678,210 | 8.221.715,890 | 562,280 |
| RAD12-C06-40 | 366.669,690 | 8.221.726,980 | 562,290 |
| RAD12-C06-41 | 366.661,070 | 8.221.737,720 | 562,310 |
| RAD12-C06-42 | 366.654,470 | 8.221.747,940 | 562,280 |
| RAD12-C06-43 | 366.649,590 | 8.221.762,130 | 562,260 |
| RAD12-C06-44 | 366.634,590 | 8.221.776,410 | 562,280 |
| RAD12-C06-45 | 366.628,210 | 8.221.789,230 | 562,260 |
| RAD12-C06-46 | 366.621,700 | 8.221.801,770 | 562,270 |
| RAD12-C06-47 | 366.617,150 | 8.221.814,470 | 562,300 |
| RAD12-C06-48 | 366.605,240 | 8.221.824,620 | 562,270 |
| RAD12-C06-49 | 366.595,530 | 8.221.835,740 | 562,280 |
| CURVA 07 | | | |
| RAD12-C07-00 | 366.814,870 | 8.221.243,240 | 561,270 |
| RAD12-C07-01 | 366.815,020 | 8.221.257,940 | 561,300 |
| RAD12-C07-02 | 366.813,020 | 8.221.271,190 | 561,300 |
| RAD12-C07-03 | 366.812,185 | 8.221.284,815 | 561,310 |
| RAD12-C07-04 | 366.813,740 | 8.221.299,190 | 561,290 |
| RAD12-C07-05 | 366.814,270 | 8.221.310,990 | 561,340 |
| RAD12-C07-06 | 366.815,550 | 8.221.322,610 | 561,300 |
| RAD12-C07-07 | 366.817,330 | 8.221.338,480 | 561,290 |
| RAD12-C07-08 | 366.818,740 | 8.221.350,030 | 561,300 |
| RAD12-C07-09 | 366.821,400 | 8.221.360,980 | 561,280 |
| RAD12-C07-10 | 366.825,490 | 8.221.372,590 | 561,290 |
| RAD12-C07-11 | 366.828,770 | 8.221.385,190 | 561,290 |
| RAD12-C07-12 | 366.831,710 | 8.221.395,610 | 561,290 |
| RAD12-C07-13 | 366.834,220 | 8.221.407,710 | 561,300 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD12-C07-14 | 366.839,431 | 8.221.418,210 | 561,300 |
| RAD12-C07-15 | 366.838,810 | 8.221.430,450 | 561,300 |
| RAD12-C07-16 | 366.843,020 | 8.221.444,150 | 561,270 |
| RAD12-C07-17 | 366.845,650 | 8.221.455,530 | 561,290 |
| RAD12-C07-18 | 366.845,510 | 8.221.467,840 | 561,290 |
| RAD12-C07-19 | 366.845,720 | 8.221.482,280 | 561,290 |
| RAD12-C07-20 | 366.842,930 | 8.221.494,360 | 561,300 |
| RAD12-C07-21 | 366.841,320 | 8.221.506,540 | 561,320 |
| RAD12-C07-22 | 366.835,760 | 8.221.518,570 | 561,290 |
| RAD12-C07-23 | 366.833,320 | 8.221.533,960 | 561,290 |
| RAD12-C07-24 | 366.830,890 | 8.221.544,850 | 561,290 |
| RAD12-C07-25 | 366.825,230 | 8.221.555,160 | 561,290 |
| RAD12-C07-26 | 366.819,730 | 8.221.564,090 | 561,290 |
| RAD12-C07-27 | 366.811,010 | 8.221.573,620 | 561,290 |
| RAD12-C07-28 | 366.805,850 | 8.221.587,240 | 561,300 |
| RAD12-C07-29 | 366.800,140 | 8.221.597,240 | 561,290 |
| RAD12-C07-30 | 366.792,610 | 8.221.606,870 | 561,310 |
| RAD12-C07-31 | 366.787,680 | 8.221.618,820 | 561,300 |
| RAD12-C07-32 | 366.782,440 | 8.221.630,430 | 561,290 |
| RAD12-C07-33 | 366.779,120 | 8.221.638,870 | 561,300 |
| RAD12-C07-34 | 366.777,240 | 8.221.650,190 | 561,280 |
| RAD12-C07-35 | 366.767,800 | 8.221.658,570 | 561,270 |
| RAD12-C07-36 | 366.759,680 | 8.221.665,490 | 561,280 |
| RAD12-C07-37 | 366.752,960 | 8.221.673,530 | 561,310 |
| RAD12-C07-38 | 366.744,940 | 8.221.684,550 | 561,320 |
| RAD12-C07-39 | 366.738,080 | 8.221.694,100 | 561,310 |
| RAD12-C07-40 | 366.732,890 | 8.221.706,110 | 561,280 |
| RAD12-C07-41 | 366.728,500 | 8.221.717,430 | 561,290 |
| RAD12-C07-42 | 366.724,650 | 8.221.728,830 | 561,290 |
| RAD12-C07-43 | 366.717,950 | 8.221.736,970 | 561,300 |
| RAD12-C07-44 | 366.706,070 | 8.221.744,930 | 561,330 |
| RAD12-C07-45 | 366.700,090 | 8.221.753,480 | 561,310 |
| RAD12-C07-46 | 366.695,620 | 8.221.763,920 | 561,290 |
| RAD12-C07-47 | 366.688,470 | 8.221.777,150 | 561,300 |
| RAD12-C07-48 | 366.681,830 | 8.221.785,510 | 561,310 |
| RAD12-C07-49 | 366.675,380 | 8.221.797,120 | 561,300 |
| RAD12-C07-50 | 366.667,680 | 8.221.806,330 | 561,310 |
| RAD12-C07-51 | 366.662,670 | 8.221.819,700 | 561,300 |
| RAD12-C07-52 | 366.654,460 | 8.221.828,010 | 561,270 |
| RAD12-C07-53 | 366.645,430 | 8.221.837,600 | 561,290 |
| RAD12-C07-54 | 366.638,160 | 8.221.848,410 | 561,320 |
| RAD12-C07-55 | 366.631,550 | 8.221.859,080 | 561,280 |
| RAD12-C07-56 | 366.623,420 | 8.221.871,670 | 561,260 |
| RAD12-C07-57 | 366.613,660 | 8.221.879,310 | 561,300 |
| RAD12-C07-58 | 366.610,070 | 8.221.888,340 | 561,300 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD12-C07-59 | 366.602,900 | 8.221.896,910 | 561,270 |
| RAD12-C07-60 | 366.592,480 | 8.221.902,980 | 561,300 |
| CURVA 08 | | | |
| RAD12-C08-00 | 366.840,290 | 8.221.264,770 | 559,660 |
| RAD12-C08-01 | 366.848,900 | 8.221.280,170 | 559,610 |
| RAD12-C08-02 | 366.849,350 | 8.221.293,350 | 559,640 |
| RAD12-C08-03 | 366.850,600 | 8.221.305,710 | 559,650 |
| RAD12-C08-04 | 366.851,600 | 8.221.319,960 | 559,640 |
| RAD12-C08-05 | 366.855,770 | 8.221.331,660 | 559,650 |
| RAD12-C08-06 | 366.856,020 | 8.221.345,000 | 559,610 |
| RAD12-C08-07 | 366.857,670 | 8.221.359,180 | 559,630 |
| RAD12-C08-08 | 366.861,390 | 8.221.371,220 | 559,650 |
| RAD12-C08-09 | 366.863,390 | 8.221.382,530 | 559,650 |
| RAD12-C08-10 | 366.863,250 | 8.221.394,850 | 559,620 |
| RAD12-C08-11 | 366.869,110 | 8.221.404,900 | 559,610 |
| RAD12-C08-12 | 366.873,800 | 8.221.416,730 | 559,660 |
| RAD12-C08-13 | 366.878,800 | 8.221.427,800 | 559,650 |
| RAD12-C08-14 | 366.884,260 | 8.221.439,490 | 559,630 |
| RAD12-C08-15 | 366.893,120 | 8.221.450,470 | 559,630 |
| RAD12-C08-16 | 366.895,490 | 8.221.463,370 | 559,620 |
| RAD12-C08-17 | 366.896,400 | 8.221.474,780 | 559,640 |
| RAD12-C08-18 | 366.897,950 | 8.221.486,840 | 559,610 |
| RAD12-C08-19 | 366.898,660 | 8.221.501,230 | 559,640 |
| RAD12-C08-20 | 366.899,440 | 8.221.513,830 | 559,620 |
| RAD12-C08-21 | 366.896,160 | 8.221.531,390 | 559,640 |
| RAD12-C08-22 | 366.894,020 | 8.221.545,390 | 559,660 |
| RAD12-C08-23 | 366.893,130 | 8.221.553,430 | 559,650 |
| RAD12-C08-24 | 366.889,910 | 8.221.563,960 | 559,650 |
| RAD12-C08-25 | 366.883,600 | 8.221.580,830 | 559,650 |
| RAD12-C08-26 | 366.884,600 | 8.221.596,570 | 559,650 |
| RAD12-C08-27 | 366.874,790 | 8.221.604,730 | 559,640 |
| RAD12-C08-28 | 366.873,810 | 8.221.615,870 | 559,640 |
| RAD12-C08-29 | 366.863,500 | 8.221.623,690 | 559,620 |
| RAD12-C08-30 | 366.856,370 | 8.221.635,830 | 559,640 |
| RAD12-C08-31 | 366.851,230 | 8.221.647,480 | 559,640 |
| RAD12-C08-32 | 366.843,700 | 8.221.659,590 | 559,640 |
| RAD12-C08-33 | 366.836,040 | 8.221.667,270 | 559,650 |
| RAD12-C08-34 | 366.833,480 | 8.221.680,340 | 559,610 |
| RAD12-C08-35 | 366.829,020 | 8.221.692,770 | 559,630 |
| RAD12-C08-36 | 366.815,450 | 8.221.702,370 | 559,670 |
| RAD12-C08-37 | 366.809,530 | 8.221.715,130 | 559,640 |
| RAD12-C08-38 | 366.801,970 | 8.221.725,680 | 559,640 |
| RAD12-C08-39 | 366.795,130 | 8.221.735,910 | 559,650 |
| RAD12-C08-40 | 366.789,890 | 8.221.747,870 | 559,650 |
| RAD12-C08-41 | 366.781,760 | 8.221.760,350 | 559,630 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD12-C08-42 | 366.775,770 | 8.221.771,330 | 559,640 |
| RAD12-C08-43 | 366.770,380 | 8.221.782,450 | 559,630 |
| RAD12-C08-44 | 366.765,190 | 8.221.796,280 | 559,610 |
| RAD12-C08-45 | 366.759,440 | 8.221.807,650 | 559,640 |
| RAD12-C08-46 | 366.739,360 | 8.221.816,080 | 559,640 |
| RAD12-C08-47 | 366.734,940 | 8.221.828,100 | 559,640 |
| RAD12-C08-48 | 366.725,810 | 8.221.833,910 | 559,640 |
| RAD12-C08-49 | 366.725,050 | 8.221.846,270 | 559,640 |
| RAD12-C08-50 | 366.714,900 | 8.221.854,140 | 559,670 |
| RAD12-C08-51 | 366.709,580 | 8.221.865,930 | 559,660 |
| RAD12-C08-52 | 366.699,600 | 8.221.877,540 | 559,620 |
| RAD12-C08-53 | 366.688,200 | 8.221.887,760 | 559,640 |
| RAD12-C08-54 | 366.682,260 | 8.221.898,520 | 559,650 |
| RAD12-C08-55 | 366.672,840 | 8.221.911,010 | 559,650 |
| RAD12-C08-56 | 366.665,870 | 8.221.923,080 | 559,620 |
| RAD12-C08-57 | 366.658,600 | 8.221.933,300 | 559,660 |
| RAD12-C08-58 | 366.652,050 | 8.221.944,820 | 559,650 |
| RAD12-C08-59 | 366.640,360 | 8.221.954,520 | 559,630 |
| RAD12-C08-60 | 366.632,760 | 8.221.966,200 | 559,610 |
| RAD12-C08-61 | 366.622,890 | 8.221.976,700 | 559,620 |
| RAD12-C08-62 | 366.612,050 | 8.221.986,240 | 559,640 |
| RAD12-C08-63 | 366.603,820 | 8.221.999,760 | 559,630 |
| CURVA 09 | | | |
| RAD12-C09-00 | 366.915,550 | 8.221.410,080 | 557,960 |
| RAD12-C09-01 | 366.921,300 | 8.221.427,510 | 557,940 |
| RAD12-C09-02 | 366.926,470 | 8.221.442,500 | 557,930 |
| RAD12-C09-03 | 366.930,180 | 8.221.454,010 | 557,970 |
| RAD12-C09-04 | 366.935,530 | 8.221.464,610 | 557,930 |
| RAD12-C09-05 | 366.934,660 | 8.221.473,100 | 557,940 |
| RAD12-C09-06 | 366.936,120 | 8.221.488,130 | 557,970 |
| RAD12-C09-07 | 366.938,380 | 8.221.496,420 | 557,940 |
| RAD12-C09-08 | 366.942,090 | 8.221.506,090 | 557,930 |
| RAD12-C09-09 | 366.943,800 | 8.221.519,100 | 557,950 |
| RAD12-C09-10 | 366.943,260 | 8.221.526,160 | 557,940 |
| RAD12-C09-11 | 366.947,870 | 8.221.549,170 | 557,930 |
| RAD12-C09-12 | 366.948,190 | 8.221.562,100 | 557,930 |
| RAD12-C09-13 | 366.947,800 | 8.221.572,960 | 557,920 |
| RAD12-C09-14 | 366.946,050 | 8.221.589,570 | 557,920 |
| RAD12-C09-15 | 366.946,560 | 8.221.601,120 | 557,920 |
| RAD12-C09-16 | 366.943,640 | 8.221.613,940 | 557,940 |
| RAD12-C09-17 | 366.940,700 | 8.221.624,840 | 557,950 |
| RAD12-C09-18 | 366.938,060 | 8.221.638,380 | 557,940 |
| RAD12-C09-19 | 366.934,130 | 8.221.651,280 | 557,940 |
| RAD12-C09-20 | 366.930,940 | 8.221.662,710 | 557,930 |
| RAD12-C09-21 | 366.926,350 | 8.221.673,660 | 557,950 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD12-C09-22 | 366.923,680 | 8.221.684,630 | 557,920 |
| RAD12-C09-23 | 366.913,680 | 8.221.695,860 | 557,930 |
| RAD12-C09-24 | 366.906,870 | 8.221.706,470 | 557,930 |
| RAD12-C09-25 | 366.899,380 | 8.221.715,950 | 557,930 |
| RAD12-C09-26 | 366.892,880 | 8.221.726,020 | 557,950 |
| RAD12-C09-27 | 366.888,530 | 8.221.735,960 | 557,950 |
| RAD12-C09-28 | 366.883,240 | 8.221.745,950 | 557,930 |
| RAD12-C09-29 | 366.879,290 | 8.221.759,070 | 557,950 |
| RAD12-C09-30 | 366.874,950 | 8.221.771,050 | 557,950 |
| RAD12-C09-31 | 366.865,770 | 8.221.779,950 | 557,940 |
| RAD12-C09-32 | 366.854,070 | 8.221.786,510 | 557,940 |
| RAD12-C09-33 | 366.846,680 | 8.221.794,780 | 557,960 |
| RAD12-C09-34 | 366.842,600 | 8.221.805,990 | 557,960 |
| RAD12-C09-35 | 366.838,240 | 8.221.816,940 | 557,930 |
| RAD12-C09-36 | 366.830,910 | 8.221.826,600 | 557,950 |
| RAD12-C09-37 | 366.819,260 | 8.221.836,980 | 557,960 |
| RAD12-C09-38 | 366.816,590 | 8.221.848,000 | 557,970 |
| RAD12-C09-39 | 366.812,030 | 8.221.859,260 | 557,960 |
| RAD12-C09-40 | 366.806,820 | 8.221.871,510 | 557,920 |
| RAD12-C09-41 | 366.796,100 | 8.221.878,700 | 557,950 |
| RAD12-C09-42 | 366.787,390 | 8.221.886,920 | 557,930 |
| RAD12-C09-43 | 366.779,320 | 8.221.896,150 | 557,920 |
| RAD12-C09-44 | 366.770,690 | 8.221.905,660 | 557,950 |
| RAD12-C09-45 | 366.763,900 | 8.221.916,320 | 557,960 |
| RAD12-C09-46 | 366.757,280 | 8.221.927,700 | 557,940 |
| RAD12-C09-47 | 366.749,350 | 8.221.937,900 | 557,940 |
| RAD12-C09-48 | 366.741,450 | 8.221.946,530 | 557,940 |
| RAD12-C09-49 | 366.735,900 | 8.221.957,830 | 557,950 |
| RAD12-C09-50 | 366.726,720 | 8.221.966,510 | 557,930 |
| RAD12-C09-51 | 366.716,690 | 8.221.975,270 | 557,920 |
| RAD12-C09-52 | 366.709,470 | 8.221.984,050 | 557,950 |
| RAD12-C09-53 | 366.701,460 | 8.221.994,130 | 557,930 |
| RAD12-C09-54 | 366.693,840 | 8.222.003,610 | 557,970 |
| RAD12-C09-55 | 366.687,180 | 8.222.014,750 | 557,930 |
| RAD12-C09-56 | 366.675,450 | 8.222.022,610 | 557,910 |
| RAD12-C09-57 | 366.664,860 | 8.222.031,060 | 557,970 |
| RAD12-C09-58 | 366.656,590 | 8.222.040,280 | 557,930 |
| CURVA 10 | | | |
| RAD12-C10-00 | 366.998,930 | 8.221.578,360 | 555,750 |
| RAD12-C10-01 | 367.000,400 | 8.221.589,310 | 555,720 |
| RAD12-C10-02 | 367.001,450 | 8.221.600,660 | 555,760 |
| RAD12-C10-03 | 367.005,280 | 8.221.612,210 | 555,740 |
| RAD12-C10-04 | 367.011,460 | 8.221.627,900 | 555,750 |
| RAD12-C10-05 | 367.016,010 | 8.221.638,640 | 555,760 |
| RAD12-C10-06 | 367.018,900 | 8.221.651,330 | 555,730 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD12-C10-07 | 367.018,250 | 8.221.662,940 | 555,760 |
| RAD12-C10-08 | 367.017,730 | 8.221.673,440 | 555,760 |
| RAD12-C10-09 | 367.021,820 | 8.221.683,920 | 555,740 |
| RAD12-C10-10 | 367.021,080 | 8.221.694,310 | 555,780 |
| RAD12-C10-11 | 367.019,830 | 8.221.706,420 | 555,740 |
| RAD12-C10-12 | 367.013,930 | 8.221.718,210 | 555,750 |
| RAD12-C10-13 | 367.010,950 | 8.221.730,110 | 555,750 |
| RAD12-C10-14 | 367.006,930 | 8.221.741,120 | 555,750 |
| RAD12-C10-15 | 367.000,890 | 8.221.752,570 | 555,750 |
| RAD12-C10-16 | 366.993,980 | 8.221.764,420 | 555,760 |
| RAD12-C10-17 | 366.989,750 | 8.221.773,430 | 555,770 |
| RAD12-C10-18 | 366.983,780 | 8.221.788,160 | 555,780 |
| RAD12-C10-19 | 366.978,150 | 8.221.799,850 | 555,750 |
| RAD12-C10-20 | 366.971,520 | 8.221.810,440 | 555,750 |
| RAD12-C10-21 | 366.964,690 | 8.221.819,420 | 555,750 |
| RAD12-C10-22 | 366.959,220 | 8.221.829,140 | 555,730 |
| RAD12-C10-23 | 366.952,920 | 8.221.833,840 | 555,740 |
| RAD12-C10-24 | 366.944,560 | 8.221.842,460 | 555,770 |
| RAD12-C10-25 | 366.936,720 | 8.221.851,330 | 555,770 |
| RAD12-C10-26 | 366.930,460 | 8.221.861,110 | 555,770 |
| RAD12-C10-27 | 366.923,690 | 8.221.872,120 | 555,750 |
| RAD12-C10-28 | 366.913,770 | 8.221.880,720 | 555,770 |
| RAD12-C10-29 | 366.910,210 | 8.221.892,630 | 555,750 |
| RAD12-C10-30 | 366.900,050 | 8.221.903,710 | 555,740 |
| RAD12-C10-31 | 366.891,580 | 8.221.914,660 | 555,770 |
| RAD12-C10-32 | 366.884,090 | 8.221.923,520 | 555,770 |
| RAD12-C10-33 | 366.878,510 | 8.221.933,770 | 555,740 |
| RAD12-C10-34 | 366.871,540 | 8.221.946,510 | 555,770 |
| RAD12-C10-35 | 366.864,710 | 8.221.955,270 | 555,720 |
| RAD12-C10-36 | 366.856,520 | 8.221.967,370 | 555,770 |
| RAD12-C10-37 | 366.851,470 | 8.221.979,830 | 555,740 |
| RAD12-C10-38 | 366.838,640 | 8.221.985,340 | 555,760 |
| RAD12-C10-39 | 366.830,260 | 8.221.992,820 | 555,750 |
| RAD12-C10-40 | 366.826,620 | 8.222.005,310 | 555,740 |
| RAD12-C10-41 | 366.817,910 | 8.222.013,970 | 555,760 |
| RAD12-C10-42 | 366.811,550 | 8.222.023,830 | 555,720 |
| RAD12-C10-43 | 366.799,250 | 8.222.030,520 | 555,770 |
| RAD12-C10-44 | 366.790,820 | 8.222.039,950 | 555,730 |
| RAD12-C10-45 | 366.782,460 | 8.222.049,310 | 555,730 |
| RAD12-C10-46 | 366.772,840 | 8.222.060,550 | 555,790 |
| RAD12-C10-47 | 366.766,270 | 8.222.075,510 | 555,770 |
| RAD12-C10-48 | 366.759,340 | 8.222.085,730 | 555,770 |
| CURVA 11 | | | |
| RAD12-C11-00 | 367.053,610 | 8.221.634,550 | 554,070 |
| RAD12-C11-01 | 367.055,900 | 8.221.646,290 | 554,080 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD12-C11-02 | 367.063,080 | 8.221.657,580 | 554,080 |
| RAD12-C11-03 | 367.066,410 | 8.221.670,210 | 554,080 |
| RAD12-C11-04 | 367.069,360 | 8.221.681,430 | 554,090 |
| RAD12-C11-05 | 367.075,980 | 8.221.692,990 | 554,080 |
| RAD12-C11-06 | 367.077,720 | 8.221.705,550 | 554,050 |
| RAD12-C11-07 | 367.077,170 | 8.221.717,050 | 554,080 |
| RAD12-C11-08 | 367.076,680 | 8.221.730,770 | 554,090 |
| RAD12-C11-09 | 367.076,940 | 8.221.742,960 | 554,090 |
| RAD12-C11-10 | 367.078,040 | 8.221.758,950 | 554,070 |
| RAD12-C11-11 | 367.077,670 | 8.221.774,790 | 554,050 |
| RAD12-C11-12 | 367.074,960 | 8.221.787,840 | 554,090 |
| RAD12-C11-13 | 367.069,800 | 8.221.800,330 | 554,070 |
| RAD12-C11-14 | 367.064,610 | 8.221.812,150 | 554,070 |
| RAD12-C11-15 | 367.060,510 | 8.221.823,500 | 554,060 |
| RAD12-C11-16 | 367.054,910 | 8.221.837,140 | 554,070 |
| RAD12-C11-17 | 367.050,130 | 8.221.852,480 | 554,050 |
| RAD12-C11-18 | 367.042,300 | 8.221.862,440 | 554,070 |
| RAD12-C11-19 | 367.033,240 | 8.221.871,390 | 554,090 |
| RAD12-C11-20 | 367.025,710 | 8.221.881,700 | 554,080 |
| RAD12-C11-21 | 367.019,550 | 8.221.891,810 | 554,080 |
| RAD12-C11-22 | 367.013,690 | 8.221.902,060 | 554,070 |
| RAD12-C11-23 | 367.005,390 | 8.221.912,110 | 554,070 |
| RAD12-C11-24 | 366.998,520 | 8.221.923,650 | 554,100 |
| RAD12-C11-25 | 366.990,700 | 8.221.934,970 | 554,080 |
| RAD12-C11-26 | 366.982,900 | 8.221.943,690 | 554,060 |
| RAD12-C11-27 | 366.972,620 | 8.221.949,720 | 554,070 |
| RAD12-C11-28 | 366.964,950 | 8.221.961,060 | 554,050 |
| RAD12-C11-29 | 366.962,250 | 8.221.972,700 | 554,080 |
| RAD12-C11-30 | 366.952,290 | 8.221.980,480 | 554,070 |
| RAD12-C11-31 | 366.943,700 | 8.221.990,540 | 554,060 |
| RAD12-C11-32 | 366.936,230 | 8.222.001,400 | 554,060 |
| RAD12-C11-33 | 366.928,480 | 8.222.011,770 | 554,070 |
| RAD12-C11-34 | 366.917,660 | 8.222.021,610 | 554,080 |
| RAD12-C11-35 | 366.909,150 | 8.222.030,390 | 554,060 |
| RAD12-C11-36 | 366.903,100 | 8.222.042,050 | 554,080 |
| RAD12-C11-37 | 366.892,380 | 8.222.052,540 | 554,080 |
| RAD12-C11-38 | 366.881,740 | 8.222.062,440 | 554,080 |
| RAD12-C11-39 | 366.875,480 | 8.222.073,340 | 554,070 |
| RAD12-C11-40 | 366.868,760 | 8.222.081,020 | 554,050 |
| RAD12-C11-41 | 366.859,550 | 8.222.088,940 | 554,070 |
| RAD12-C11-42 | 366.850,930 | 8.222.097,240 | 554,080 |
| RAD12-C11-43 | 366.843,410 | 8.222.108,460 | 554,090 |
| RAD12-C11-44 | 366.833,300 | 8.222.116,420 | 554,070 |
| RAD12-C11-45 | 366.824,870 | 8.222.124,340 | 554,070 |
| RAD12-C11-46 | 366.816,700 | 8.222.132,950 | 554,070 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD12-C11-47 | 366.807,030 | 8.222.141,310 | 554,080 |
| CURVA 12 | | | |
| RAD12-C12-00 | 367.109,260 | 8.221.687,790 | 552,480 |
| RAD12-C12-01 | 367.112,150 | 8.221.702,950 | 552,470 |
| RAD12-C12-02 | 367.115,790 | 8.221.718,770 | 552,500 |
| RAD12-C12-03 | 367.119,770 | 8.221.732,590 | 552,480 |
| RAD12-C12-04 | 367.125,830 | 8.221.740,430 | 552,460 |
| RAD12-C12-05 | 367.129,480 | 8.221.753,390 | 552,470 |
| RAD12-C12-06 | 367.133,360 | 8.221.767,690 | 552,490 |
| RAD12-C12-07 | 367.136,650 | 8.221.776,220 | 552,470 |
| RAD12-C12-08 | 367.139,920 | 8.221.787,650 | 552,500 |
| RAD12-C12-09 | 367.140,670 | 8.221.799,370 | 552,460 |
| RAD12-C12-10 | 367.139,690 | 8.221.808,830 | 552,500 |
| RAD12-C12-11 | 367.140,060 | 8.221.821,170 | 552,460 |
| RAD12-C12-12 | 367.139,760 | 8.221.831,250 | 552,460 |
| RAD12-C12-13 | 367.137,160 | 8.221.845,920 | 552,470 |
| RAD12-C12-14 | 367.134,740 | 8.221.859,350 | 552,450 |
| RAD12-C12-15 | 367.130,750 | 8.221.871,130 | 552,460 |
| RAD12-C12-16 | 367.127,350 | 8.221.883,060 | 552,450 |
| RAD12-C12-17 | 367.118,760 | 8.221.894,740 | 552,490 |
| RAD12-C12-18 | 367.112,040 | 8.221.902,140 | 552,510 |
| RAD12-C12-19 | 367.108,200 | 8.221.917,740 | 552,490 |
| RAD12-C12-20 | 367.107,480 | 8.221.928,340 | 552,450 |
| RAD12-C12-21 | 367.094,830 | 8.221.940,700 | 552,470 |
| RAD12-C12-22 | 367.085,860 | 8.221.949,990 | 552,470 |
| RAD12-C12-23 | 367.077,680 | 8.221.959,390 | 552,480 |
| RAD12-C12-24 | 367.072,520 | 8.221.968,960 | 552,470 |
| RAD12-C12-25 | 367.071,400 | 8.221.979,600 | 552,490 |
| RAD12-C12-26 | 367.061,620 | 8.221.988,430 | 552,480 |
| RAD12-C12-27 | 367.050,050 | 8.221.993,150 | 552,480 |
| RAD12-C12-28 | 367.043,660 | 8.222.000,400 | 552,500 |
| RAD12-C12-29 | 367.043,670 | 8.222.012,010 | 552,490 |
| RAD12-C12-30 | 367.034,060 | 8.222.018,390 | 552,450 |
| RAD12-C12-31 | 367.024,200 | 8.222.025,850 | 552,470 |
| RAD12-C12-32 | 367.021,000 | 8.222.035,450 | 552,480 |
| RAD12-C12-33 | 367.010,860 | 8.222.041,210 | 552,480 |
| RAD12-C12-34 | 367.003,870 | 8.222.049,590 | 552,480 |
| RAD12-C12-35 | 366.995,880 | 8.222.057,860 | 552,500 |
| RAD12-C12-36 | 366.989,710 | 8.222.066,960 | 552,490 |
| RAD12-C12-37 | 366.981,590 | 8.222.076,210 | 552,480 |
| RAD12-C12-38 | 366.974,010 | 8.222.084,950 | 552,470 |
| RAD12-C12-39 | 366.966,320 | 8.222.093,330 | 552,480 |
| RAD12-C12-40 | 366.958,060 | 8.222.101,030 | 552,490 |
| RAD12-C12-41 | 366.950,020 | 8.222.107,760 | 552,480 |
| CURVA 13 | | | |

| | | | |
|--------------|-------------|---------------|---------|
| RAD12-C13-00 | 367.159,330 | 8.221.744,960 | 551,370 |
| RAD12-C13-01 | 367.163,150 | 8.221.758,830 | 551,380 |
| RAD12-C13-02 | 367.169,380 | 8.221.765,920 | 551,350 |
| RAD12-C13-03 | 367.172,550 | 8.221.776,310 | 551,320 |
| RAD12-C13-04 | 367.175,030 | 8.221.787,030 | 551,370 |
| RAD12-C13-05 | 367.177,530 | 8.221.799,560 | 551,380 |
| RAD12-C13-06 | 367.182,020 | 8.221.808,750 | 551,340 |
| RAD12-C13-07 | 367.183,910 | 8.221.820,000 | 551,370 |
| RAD12-C13-08 | 367.187,480 | 8.221.830,190 | 551,350 |
| RAD12-C13-09 | 367.188,480 | 8.221.840,150 | 551,360 |
| RAD12-C13-10 | 367.189,080 | 8.221.851,190 | 551,370 |
| RAD12-C13-11 | 367.188,130 | 8.221.860,960 | 551,410 |
| RAD12-C13-12 | 367.182,730 | 8.221.877,800 | 551,380 |
| RAD12-C13-13 | 367.183,100 | 8.221.891,400 | 551,370 |
| RAD12-C13-14 | 367.182,680 | 8.221.901,210 | 551,360 |
| RAD12-C13-15 | 367.173,470 | 8.221.911,570 | 551,370 |
| RAD12-C13-16 | 367.171,140 | 8.221.922,000 | 551,350 |
| RAD12-C13-17 | 367.168,600 | 8.221.932,930 | 551,350 |
| RAD12-C13-18 | 367.168,800 | 8.221.940,320 | 551,340 |
| RAD12-C13-19 | 367.157,570 | 8.221.945,380 | 551,340 |
| RAD12-C13-20 | 367.152,900 | 8.221.955,020 | 551,350 |
| RAD12-C13-21 | 367.148,760 | 8.221.965,770 | 551,350 |
| RAD12-C13-22 | 367.142,350 | 8.221.974,480 | 551,350 |
| RAD12-C13-23 | 367.131,200 | 8.221.984,960 | 551,380 |
| RAD12-C13-24 | 367.125,900 | 8.221.995,360 | 551,350 |
| RAD12-C13-25 | 367.125,730 | 8.222.003,890 | 551,340 |
| RAD12-C13-26 | 367.113,280 | 8.222.010,830 | 551,360 |
| RAD12-C13-27 | 367.106,870 | 8.222.019,580 | 551,360 |
| CURVA 14 | | | |
| RAD12-C14-00 | 367.212,460 | 8.221.767,780 | 549,830 |
| RAD12-C14-01 | 367.215,660 | 8.221.779,920 | 549,850 |
| RAD12-C14-02 | 367.216,010 | 8.221.790,700 | 549,820 |
| RAD12-C14-03 | 367.217,700 | 8.221.800,490 | 549,840 |
| RAD12-C14-04 | 367.232,320 | 8.221.806,600 | 549,820 |
| RAD12-C14-05 | 367.237,190 | 8.221.814,960 | 549,820 |
| RAD12-C14-06 | 367.241,760 | 8.221.824,560 | 549,810 |
| RAD12-C14-07 | 367.246,180 | 8.221.834,400 | 549,850 |
| RAD12-C14-08 | 367.251,630 | 8.221.844,170 | 549,820 |
| RAD12-C14-09 | 367.257,000 | 8.221.853,000 | 549,840 |
| RAD12-C14-10 | 367.253,620 | 8.221.865,070 | 549,850 |
| RAD12-C14-11 | 367.255,050 | 8.221.875,190 | 549,840 |
| RAD12-C14-12 | 367.256,430 | 8.221.885,770 | 549,840 |
| RAD12-C14-13 | 367.257,350 | 8.221.896,490 | 549,840 |
| RAD12-C14-14 | 367.259,200 | 8.221.907,370 | 549,850 |
| RAD12-C14-15 | 367.260,590 | 8.221.916,970 | 549,850 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD12-C14-16 | 367.252,450 | 8.221.927,250 | 549,820 |
| RAD12-C14-17 | 367.253,490 | 8.221.937,000 | 549,850 |
| RAD12-C14-18 | 367.252,080 | 8.221.947,680 | 549,810 |
| CURVA 15 | | | |
| RAD12-C15-00 | 367.254,280 | 8.221.773,230 | 548,530 |
| RAD12-C15-01 | 367.264,170 | 8.221.780,800 | 548,540 |
| RAD12-C15-02 | 367.268,760 | 8.221.795,580 | 548,560 |
| RAD12-C15-03 | 367.274,000 | 8.221.804,460 | 548,530 |
| RAD12-C15-04 | 367.278,290 | 8.221.813,340 | 548,530 |
| RAD12-C15-05 | 367.283,310 | 8.221.822,180 | 548,550 |
| RAD12-C15-06 | 367.287,500 | 8.221.832,400 | 548,550 |
| RAD12-C15-07 | 367.292,680 | 8.221.841,350 | 548,540 |
| RAD12-C15-08 | 367.298,580 | 8.221.850,430 | 548,560 |
| RAD12-C15-09 | 367.299,890 | 8.221.860,820 | 548,550 |
| RAD12-C15-10 | 367.305,400 | 8.221.869,160 | 548,540 |
| RAD12-C15-11 | 367.307,490 | 8.221.876,760 | 548,540 |
| RAD12-C15-12 | 367.309,230 | 8.221.886,040 | 548,510 |
| RAD12-C15-13 | 367.312,220 | 8.221.895,190 | 548,520 |
| RAD12-C15-14 | 367.313,670 | 8.221.904,820 | 548,540 |
| RAD12-C15-15 | 367.314,550 | 8.221.918,250 | 548,530 |
| CURVA 16 | | | |
| RAD12-C16-00 | 367.234,910 | 8.221.688,420 | 546,040 |
| RAD12-C16-01 | 367.244,540 | 8.221.695,360 | 546,030 |
| RAD12-C16-02 | 367.251,870 | 8.221.701,740 | 546,030 |
| RAD12-C16-03 | 367.261,840 | 8.221.705,600 | 546,020 |
| RAD12-C16-04 | 367.271,090 | 8.221.710,560 | 546,020 |
| RAD12-C16-05 | 367.279,590 | 8.221.716,890 | 546,030 |
| RAD12-C16-06 | 367.287,730 | 8.221.723,030 | 546,030 |
| RAD12-C16-07 | 367.295,620 | 8.221.729,270 | 546,020 |
| RAD12-C16-08 | 367.302,810 | 8.221.737,350 | 546,030 |
| RAD12-C16-09 | 367.308,680 | 8.221.747,660 | 546,030 |
| RAD12-C16-10 | 367.318,570 | 8.221.754,490 | 546,030 |
| RAD12-C16-11 | 367.326,600 | 8.221.762,170 | 546,020 |
| RAD12-C16-12 | 367.333,460 | 8.221.770,940 | 546,030 |
| RAD12-C16-13 | 367.336,340 | 8.221.779,960 | 546,020 |
| RAD12-C16-14 | 367.341,820 | 8.221.790,300 | 546,030 |
| RAD12-C16-15 | 367.351,290 | 8.221.799,000 | 546,040 |
| RAD12-C16-16 | 367.358,980 | 8.221.804,120 | 546,020 |
| RAD12-C16-17 | 367.364,380 | 8.221.813,220 | 546,020 |
| RAD12-C16-18 | 367.378,050 | 8.221.823,060 | 546,010 |
| RAD12-C16-19 | 367.380,730 | 8.221.835,700 | 546,030 |
| RAD12-C16-20 | 367.382,690 | 8.221.846,690 | 546,040 |
| RAD12-C16-21 | 367.381,710 | 8.221.862,990 | 546,030 |
| CURVA 17 | | | |
| RAD12-C17-00 | 367.167,670 | 8.221.496,100 | 541,800 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD12-C17-01 | 367.169,110 | 8.221.506,420 | 541,780 |
| RAD12-C17-02 | 367.172,560 | 8.221.516,170 | 541,780 |
| RAD12-C17-03 | 367.173,750 | 8.221.527,220 | 541,780 |
| RAD12-C17-04 | 367.178,930 | 8.221.537,110 | 541,790 |
| RAD12-C17-05 | 367.184,680 | 8.221.547,170 | 541,810 |
| RAD12-C17-06 | 367.187,100 | 8.221.557,110 | 541,770 |
| RAD12-C17-07 | 367.186,480 | 8.221.567,730 | 541,780 |
| RAD12-C17-08 | 367.190,040 | 8.221.577,300 | 541,800 |
| RAD12-C17-09 | 367.195,780 | 8.221.586,190 | 541,790 |
| RAD12-C17-10 | 367.203,030 | 8.221.594,450 | 541,710 |
| RAD12-C17-11 | 367.211,050 | 8.221.599,920 | 541,770 |
| RAD12-C17-12 | 367.220,450 | 8.221.603,270 | 541,790 |
| RAD12-C17-13 | 367.227,710 | 8.221.608,320 | 541,770 |
| RAD12-C17-14 | 367.234,490 | 8.221.614,770 | 541,790 |
| RAD12-C17-15 | 367.243,350 | 8.221.616,240 | 541,800 |
| CURVA 18 | | | |
| RAD12-C18-00 | 366.970,740 | 8.221.295,160 | 551,770 |
| RAD12-C18-01 | 366.969,680 | 8.221.284,950 | 551,760 |
| RAD12-C18-02 | 366.968,320 | 8.221.274,620 | 551,770 |
| RAD12-C18-03 | 366.964,700 | 8.221.264,660 | 551,770 |
| RAD12-C18-04 | 366.961,630 | 8.221.254,500 | 551,750 |
| RAD12-C18-05 | 366.956,220 | 8.221.246,220 | 551,760 |
| RAD12-C18-06 | 366.952,580 | 8.221.237,100 | 551,780 |
| RAD12-C18-07 | 366.950,930 | 8.221.226,720 | 551,740 |
| RAD12-C18-08 | 366.947,760 | 8.221.217,950 | 551,750 |
| RAD12-C18-09 | 366.942,810 | 8.221.209,860 | 551,770 |
| RAD12-C18-10 | 366.940,000 | 8.221.199,390 | 551,770 |
| RAD12-C18-11 | 366.935,810 | 8.221.189,340 | 551,760 |
| RAD12-C18-12 | 366.933,100 | 8.221.178,560 | 551,790 |
| RAD12-C18-13 | 366.924,610 | 8.221.171,320 | 551,770 |
| CURVA 19 | | | |
| RAD12-C19-00 | 367.056,760 | 8.221.355,700 | 546,750 |
| RAD12-C19-01 | 367.058,490 | 8.221.345,390 | 546,720 |
| RAD12-C19-02 | 367.060,580 | 8.221.335,880 | 546,720 |
| RAD12-C19-03 | 367.058,410 | 8.221.325,260 | 546,760 |
| RAD12-C19-04 | 367.059,130 | 8.221.315,220 | 546,750 |
| RAD12-C19-05 | 367.058,900 | 8.221.305,310 | 546,720 |
| RAD12-C19-06 | 367.058,150 | 8.221.294,920 | 546,740 |
| RAD12-C19-07 | 367.057,230 | 8.221.284,200 | 546,740 |
| RAD12-C19-08 | 367.053,650 | 8.221.273,530 | 546,740 |
| RAD12-C19-09 | 367.053,530 | 8.221.260,340 | 546,740 |
| RAD12-C19-10 | 367.050,720 | 8.221.250,480 | 546,730 |
| RAD12-C19-11 | 367.046,860 | 8.221.239,710 | 546,740 |
| RAD12-C19-12 | 367.043,200 | 8.221.229,020 | 546,760 |
| RAD12-C19-13 | 367.037,460 | 8.221.219,810 | 546,730 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD12-C19-14 | 367.032,240 | 8.221.211,760 | 546,740 |
| RAD12-C19-15 | 367.027,880 | 8.221.201,620 | 546,760 |
| RAD12-C19-16 | 367.023,890 | 8.221.192,110 | 546,730 |
| RAD12-C19-17 | 367.017,030 | 8.221.184,410 | 546,730 |
| RAD12-C19-18 | 367.011,840 | 8.221.175,350 | 546,730 |
| RAD12-C19-19 | 367.005,570 | 8.221.167,640 | 546,740 |
| RAD12-C19-20 | 367.001,160 | 8.221.159,530 | 546,730 |
| RAD12-C19-21 | 366.995,370 | 8.221.151,670 | 546,720 |
| RAD12-C19-22 | 366.989,640 | 8.221.143,260 | 546,750 |
| RAD12-C19-23 | 366.984,600 | 8.221.134,430 | 546,750 |
| RAD12-C19-24 | 366.980,860 | 8.221.125,790 | 546,740 |
| RAD12-C19-25 | 366.979,370 | 8.221.116,320 | 546,750 |
| RAD12-C19-26 | 366.973,590 | 8.221.107,240 | 546,750 |
| RAD12-C19-27 | 366.968,570 | 8.221.098,660 | 546,760 |
| RAD12-C19-28 | 366.964,890 | 8.221.089,980 | 546,740 |
| RAD12-C19-29 | 366.961,480 | 8.221.081,390 | 546,740 |
| CURVA 20 | | | |
| RAD12-C20-00 | 367.109,890 | 8.221.352,790 | 543,260 |
| RAD12-C20-01 | 367.109,970 | 8.221.342,180 | 543,250 |
| RAD12-C20-02 | 367.108,070 | 8.221.332,320 | 543,230 |
| RAD12-C20-03 | 367.105,900 | 8.221.322,770 | 543,270 |
| RAD12-C20-04 | 367.105,900 | 8.221.306,820 | 543,310 |
| RAD12-C20-05 | 367.104,270 | 8.221.295,680 | 543,270 |
| RAD12-C20-06 | 367.104,250 | 8.221.285,100 | 543,270 |
| RAD12-C20-07 | 367.103,140 | 8.221.274,770 | 543,260 |
| RAD12-C20-08 | 367.100,020 | 8.221.264,770 | 543,270 |
| RAD12-C20-09 | 367.102,820 | 8.221.251,370 | 543,280 |
| RAD12-C20-10 | 367.102,180 | 8.221.240,680 | 543,280 |
| RAD12-C20-11 | 367.101,410 | 8.221.230,200 | 543,260 |
| RAD12-C20-12 | 367.101,430 | 8.221.218,880 | 543,260 |
| RAD12-C20-13 | 367.100,630 | 8.221.208,450 | 543,250 |
| RAD12-C20-14 | 367.098,550 | 8.221.197,880 | 543,270 |
| RAD12-C20-15 | 367.095,910 | 8.221.186,130 | 543,260 |
| RAD12-C20-16 | 367.092,550 | 8.221.176,320 | 543,250 |
| RAD12-C20-17 | 367.087,220 | 8.221.166,840 | 543,260 |
| RAD12-C20-18 | 367.081,250 | 8.221.157,450 | 543,240 |
| RAD12-C20-19 | 367.074,440 | 8.221.148,930 | 543,270 |
| RAD12-C20-20 | 367.068,020 | 8.221.139,530 | 543,270 |
| RAD12-C20-21 | 367.059,850 | 8.221.130,370 | 543,260 |
| RAD12-C20-22 | 367.053,640 | 8.221.120,760 | 543,280 |
| RAD12-C20-23 | 367.050,170 | 8.221.111,790 | 543,270 |
| RAD12-C20-24 | 367.051,640 | 8.221.097,460 | 543,250 |
| RAD12-C20-25 | 367.040,410 | 8.221.090,480 | 543,260 |

Locação de Terraços - RAD 13

| NOME | ESTE | NORTE | ALTITUDE |
|--------------|-------------|---------------|----------|
| CURVA 01 | | | |
| RAD13-C01-00 | 368.188,890 | 8.224.428,790 | 522,040 |
| RAD13-C01-01 | 368.196,740 | 8.224.426,320 | 522,050 |
| RAD13-C01-02 | 368.204,890 | 8.224.423,740 | 522,040 |
| RAD13-C01-03 | 368.213,430 | 8.224.421,140 | 522,050 |
| RAD13-C01-04 | 368.222,890 | 8.224.418,820 | 522,050 |
| RAD13-C01-05 | 368.230,380 | 8.224.411,930 | 522,030 |
| RAD13-C01-06 | 368.233,770 | 8.224.404,190 | 522,030 |
| RAD13-C01-07 | 368.235,600 | 8.224.395,670 | 522,030 |
| RAD13-C01-08 | 368.236,030 | 8.224.387,590 | 522,030 |
| RAD13-C01-09 | 368.234,760 | 8.224.378,490 | 522,050 |
| RAD13-C01-10 | 368.234,110 | 8.224.369,010 | 522,030 |
| RAD13-C01-11 | 368.234,630 | 8.224.359,730 | 522,030 |
| RAD13-C01-12 | 368.233,360 | 8.224.350,220 | 522,060 |
| RAD13-C01-13 | 368.231,070 | 8.224.341,700 | 522,050 |
| RAD13-C01-14 | 368.228,910 | 8.224.333,170 | 522,050 |
| RAD13-C01-15 | 368.226,390 | 8.224.324,280 | 522,060 |
| RAD13-C01-16 | 368.225,260 | 8.224.315,200 | 522,050 |
| RAD13-C01-17 | 368.225,090 | 8.224.305,160 | 522,030 |
| RAD13-C01-18 | 368.224,230 | 8.224.296,490 | 522,040 |
| RAD13-C01-19 | 368.224,530 | 8.224.287,230 | 522,050 |
| RAD13-C01-20 | 368.222,440 | 8.224.274,490 | 522,050 |
| CURVA 02 | | | |
| RAD13-C02-00 | 368.246,180 | 8.224.496,110 | 519,930 |
| RAD13-C02-01 | 368.254,220 | 8.224.493,820 | 519,920 |
| RAD13-C02-02 | 368.262,160 | 8.224.490,870 | 519,920 |
| RAD13-C02-03 | 368.268,610 | 8.224.485,550 | 519,920 |
| RAD13-C02-04 | 368.274,040 | 8.224.479,990 | 519,940 |
| RAD13-C02-05 | 368.280,070 | 8.224.473,730 | 519,940 |
| RAD13-C02-06 | 368.283,240 | 8.224.466,170 | 519,940 |
| RAD13-C02-07 | 368.285,010 | 8.224.458,150 | 519,930 |
| RAD13-C02-08 | 368.286,940 | 8.224.450,760 | 519,950 |
| RAD13-C02-09 | 368.287,650 | 8.224.442,620 | 519,920 |
| RAD13-C02-10 | 368.289,350 | 8.224.433,420 | 519,930 |
| RAD13-C02-11 | 368.287,360 | 8.224.425,890 | 519,910 |
| RAD13-C02-12 | 368.284,820 | 8.224.419,770 | 519,950 |
| RAD13-C02-13 | 368.284,050 | 8.224.411,480 | 519,920 |
| RAD13-C02-14 | 368.283,690 | 8.224.402,440 | 519,910 |
| RAD13-C02-15 | 368.278,440 | 8.224.394,870 | 519,930 |
| RAD13-C02-16 | 368.272,120 | 8.224.389,040 | 519,920 |
| RAD13-C02-17 | 368.265,030 | 8.224.382,030 | 519,920 |
| RAD13-C02-18 | 368.259,260 | 8.224.375,310 | 519,930 |
| RAD13-C02-19 | 368.258,299 | 8.224.367,838 | 519,920 |
| RAD13-C02-20 | 368.254,290 | 8.224.358,130 | 519,920 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD13-C02-21 | 368.251,920 | 8.224.349,590 | 519,950 |
| RAD13-C02-22 | 368.251,560 | 8.224.340,120 | 519,910 |
| RAD13-C02-23 | 368.250,360 | 8.224.331,930 | 519,920 |
| RAD13-C02-24 | 368.249,480 | 8.224.322,150 | 519,930 |
| RAD13-C02-25 | 368.250,500 | 8.224.312,360 | 519,930 |
| RAD13-C02-26 | 368.251,690 | 8.224.303,220 | 519,940 |
| CURVA 03 | | | |
| RAD13-C03-00 | 368.242,610 | 8.224.575,730 | 517,620 |
| RAD13-C03-01 | 368.256,270 | 8.224.572,380 | 517,630 |
| RAD13-C03-02 | 368.264,820 | 8.224.572,080 | 517,600 |
| RAD13-C03-03 | 368.273,220 | 8.224.569,510 | 517,600 |
| RAD13-C03-04 | 368.281,950 | 8.224.566,700 | 517,630 |
| RAD13-C03-05 | 368.289,600 | 8.224.562,280 | 517,650 |
| RAD13-C03-06 | 368.297,570 | 8.224.559,560 | 517,640 |
| RAD13-C03-07 | 368.305,640 | 8.224.556,890 | 517,630 |
| RAD13-C03-08 | 368.313,530 | 8.224.552,840 | 517,620 |
| RAD13-C03-09 | 368.320,130 | 8.224.547,460 | 517,600 |
| RAD13-C03-10 | 368.324,200 | 8.224.542,130 | 517,610 |
| RAD13-C03-11 | 368.328,770 | 8.224.535,390 | 517,620 |
| RAD13-C03-12 | 368.333,670 | 8.224.528,560 | 517,610 |
| RAD13-C03-13 | 368.338,490 | 8.224.521,290 | 517,610 |
| RAD13-C03-14 | 368.340,350 | 8.224.512,790 | 517,630 |
| RAD13-C03-15 | 368.343,230 | 8.224.505,760 | 517,610 |
| RAD13-C03-16 | 368.346,090 | 8.224.497,980 | 517,620 |
| RAD13-C03-17 | 368.347,110 | 8.224.489,510 | 517,620 |
| RAD13-C03-18 | 368.348,170 | 8.224.479,580 | 517,620 |
| RAD13-C03-19 | 368.344,750 | 8.224.469,240 | 517,620 |
| RAD13-C03-20 | 368.343,080 | 8.224.461,450 | 517,610 |
| RAD13-C03-21 | 368.337,080 | 8.224.452,770 | 517,620 |
| RAD13-C03-22 | 368.331,930 | 8.224.445,300 | 517,620 |
| RAD13-C03-23 | 368.327,780 | 8.224.438,200 | 517,620 |
| RAD13-C03-24 | 368.323,430 | 8.224.431,110 | 517,620 |
| RAD13-C03-25 | 368.317,890 | 8.224.424,230 | 517,620 |
| RAD13-C03-26 | 368.312,060 | 8.224.416,720 | 517,630 |
| RAD13-C03-27 | 368.308,630 | 8.224.407,320 | 517,620 |
| RAD13-C03-28 | 368.303,490 | 8.224.399,950 | 517,630 |
| RAD13-C03-29 | 368.296,980 | 8.224.394,210 | 517,640 |
| RAD13-C03-30 | 368.289,150 | 8.224.389,160 | 517,620 |
| RAD13-C03-31 | 368.282,180 | 8.224.382,660 | 517,610 |
| RAD13-C03-32 | 368.276,080 | 8.224.376,470 | 517,620 |
| RAD13-C03-33 | 368.271,180 | 8.224.370,510 | 517,620 |
| RAD13-C03-34 | 368.267,380 | 8.224.363,030 | 517,630 |
| RAD13-C03-35 | 368.264,440 | 8.224.356,470 | 517,630 |
| RAD13-C03-36 | 368.262,890 | 8.224.349,330 | 517,620 |
| RAD13-C03-37 | 368.262,150 | 8.224.340,210 | 517,630 |

| | | | |
|--------------|-------------|---------------|---------|
| RAD13-C03-38 | 368.264,840 | 8.224.331,480 | 517,610 |
| RAD13-C03-39 | 368.266,240 | 8.224.323,920 | 517,630 |
| RAD13-C03-40 | 368.267,510 | 8.224.315,950 | 517,620 |
| CURVA 04 | | | |
| RAD13-C04-00 | 368.268,530 | 8.224.609,670 | 516,260 |
| RAD13-C04-01 | 368.280,050 | 8.224.610,740 | 516,260 |
| RAD13-C04-02 | 368.287,680 | 8.224.607,030 | 516,270 |
| RAD13-C04-03 | 368.295,870 | 8.224.603,280 | 516,260 |
| RAD13-C04-04 | 368.305,460 | 8.224.601,580 | 516,260 |
| RAD13-C04-05 | 368.313,890 | 8.224.601,470 | 516,260 |
| RAD13-C04-06 | 368.324,980 | 8.224.600,410 | 516,240 |
| RAD13-C04-07 | 368.332,230 | 8.224.597,720 | 516,260 |
| RAD13-C04-08 | 368.342,100 | 8.224.593,720 | 516,260 |
| RAD13-C04-09 | 368.348,540 | 8.224.588,080 | 516,270 |
| RAD13-C04-10 | 368.353,390 | 8.224.581,250 | 516,250 |
| RAD13-C04-11 | 368.355,810 | 8.224.571,760 | 516,270 |
| RAD13-C04-12 | 368.357,530 | 8.224.563,250 | 516,270 |
| RAD13-C04-13 | 368.359,940 | 8.224.555,380 | 516,250 |
| RAD13-C04-14 | 368.362,080 | 8.224.546,220 | 516,240 |
| RAD13-C04-15 | 368.362,180 | 8.224.537,110 | 516,260 |
| RAD13-C04-16 | 368.364,840 | 8.224.526,330 | 516,260 |

Tabela 4: Planilha de coordenadas das RAD's Alternativas

Projeto Uruana de Minas - MG

Técnico Agrimensor: Moab de Sá

Locação de Terraços - RAD-ALT-10

| NOME | ESTE | NORTE | ALTITUDE |
|------------------|-------------|--------------|-----------------|
| CURVA 01 | | | |
| RAD-ALT10-C01-01 | 369741,00 | 8224237,00 | 524,02 |
| RAD-ALT10-C01-02 | 369745,01 | 8224246,16 | 524,01 |
| RAD-ALT10-C01-03 | 369748,84 | 8224255,39 | 524,00 |
| RAD-ALT10-C01-04 | 369752,17 | 8224264,82 | 523,99 |
| RAD-ALT10-C01-05 | 369755,92 | 8224274,08 | 523,98 |
| RAD-ALT10-C01-06 | 369760,18 | 8224283,13 | 523,99 |
| RAD-ALT10-C01-07 | 369765,89 | 8224291,19 | 524,00 |
| RAD-ALT10-C01-08 | 369772,70 | 8224298,52 | 524,01 |
| RAD-ALT10-C01-09 | 369779,68 | 8224305,68 | 524,02 |
| RAD-ALT10-C01-10 | 369786,75 | 8224312,75 | 524,03 |
| RAD-ALT10-C01-11 | 369794,43 | 8224319,14 | 523,99 |
| RAD-ALT10-C01-12 | 369802,24 | 8224325,39 | 523,99 |
| RAD-ALT10-C01-13 | 369809,85 | 8224331,87 | 524,02 |
| RAD-ALT10-C01-14 | 369817,50 | 8224338,30 | 524,01 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT10-C01-15 | 369826,12 | 8224343,37 | 524,00 |
| RAD-ALT10-C01-16 | 369834,79 | 8224348,34 | 523,99 |
| RAD-ALT10-C01-17 | 369843,95 | 8224352,35 | 523,98 |
| RAD-ALT10-C01-18 | 369853,15 | 8224356,26 | 523,97 |
| RAD-ALT10-C01-19 | 369862,44 | 8224359,98 | 524,00 |
| RAD-ALT10-C01-20 | 369871,71 | 8224363,72 | 524,01 |
| RAD-ALT10-C01-21 | 369880,93 | 8224367,60 | 524,02 |
| RAD-ALT10-C01-22 | 369890,11 | 8224371,55 | 524,03 |
| RAD-ALT10-C01-23 | 369899,05 | 8224376,03 | 524,02 |
| RAD-ALT10-C01-24 | 369908,01 | 8224380,48 | 524,01 |
| RAD-ALT10-C01-25 | 369917,04 | 8224384,76 | 524,00 |
| RAD-ALT10-C01-26 | 369926,08 | 8224389,03 | 523,99 |
| RAD-ALT10-C01-27 | 369935,33 | 8224392,84 | 524,00 |
| RAD-ALT10-C01-28 | 369944,58 | 8224396,63 | 524,01 |
| RAD-ALT10-C01-29 | 369953,87 | 8224400,35 | 524,02 |
| RAD-ALT10-C01-30 | 369963,15 | 8224404,06 | 524,03 |
| RAD-ALT10-C01-31 | 369972,47 | 8224407,70 | 524,02 |
| RAD-ALT10-C01-32 | 369981,78 | 8224411,35 | 524,01 |
| RAD-ALT10-C01-33 | 369991,27 | 8224414,46 | 524,00 |
| RAD-ALT10-C01-34 | 370000,90 | 8224417,14 | 523,99 |
| RAD-ALT10-C01-35 | 370010,25 | 8224420,63 | 523,98 |
| RAD-ALT10-C01-36 | 370019,47 | 8224424,51 | 523,99 |
| RAD-ALT10-C01-37 | 370028,69 | 8224428,39 | 524,00 |
| RAD-ALT10-C01-38 | 370037,90 | 8224432,27 | 524,01 |
| RAD-ALT10-C01-39 | 370047,06 | 8224436,30 | 524,02 |
| RAD-ALT10-C01-40 | 370056,16 | 8224440,44 | 524,03 |
| RAD-ALT10-C01-41 | 370064,82 | 8224445,12 | 524,02 |
| RAD-ALT10-C01-42 | 370070,76 | 8224453,17 | 524,01 |
| RAD-ALT10-C01-43 | 370076,69 | 8224461,22 | 524,00 |
| RAD-ALT10-C01-44 | 370082,16 | 8224469,58 | 523,99 |
| RAD-ALT10-C01-45 | 370087,50 | 8224478,04 | 523,98 |
| RAD-ALT10-C01-46 | 370092,99 | 8224486,39 | 524,00 |
| RAD-ALT10-C01-47 | 370098,63 | 8224494,65 | 523,99 |
| RAD-ALT10-C01-48 | 370104,26 | 8224502,92 | 523,98 |
| RAD-ALT10-C01-49 | 370109,64 | 8224511,35 | 523,97 |
| RAD-ALT10-C01-50 | 370114,98 | 8224519,80 | 523,98 |
| RAD-ALT10-C01-51 | 370119,49 | 8224528,69 | 523,99 |
| RAD-ALT10-C01-52 | 370123,50 | 8224537,86 | 524,00 |
| RAD-ALT10-C01-53 | 370127,51 | 8224547,02 | 524,01 |
| RAD-ALT10-C01-54 | 370131,33 | 8224556,24 | 524,02 |
| RAD-ALT10-C01-55 | 370133,91 | 8224565,91 | 524,02 |
| RAD-ALT10-C01-56 | 370136,08 | 8224575,66 | 524,01 |
| RAD-ALT10-C01-57 | 370137,95 | 8224585,48 | 524,00 |
| RAD-ALT10-C01-58 | 370139,00 | 8224591,00 | 523,99 |

CURVA 02

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT10-C02-01 | 369715,00 | 8224243,00 | 522,00 |
| RAD-ALT10-C02-02 | 369718,33 | 8224252,43 | 522,03 |
| RAD-ALT10-C02-03 | 369721,89 | 8224261,78 | 522,01 |
| RAD-ALT10-C02-04 | 369726,36 | 8224270,72 | 522,02 |
| RAD-ALT10-C02-05 | 369730,98 | 8224279,59 | 522,02 |
| RAD-ALT10-C02-06 | 369736,25 | 8224288,09 | 522,03 |
| RAD-ALT10-C02-07 | 369741,51 | 8224296,59 | 521,99 |
| RAD-ALT10-C02-08 | 369747,17 | 8224304,84 | 521,98 |
| RAD-ALT10-C02-09 | 369752,98 | 8224312,97 | 521,97 |
| RAD-ALT10-C02-10 | 369758,88 | 8224321,05 | 521,98 |
| RAD-ALT10-C02-11 | 369765,28 | 8224328,73 | 522,01 |
| RAD-ALT10-C02-12 | 369771,68 | 8224336,41 | 522,00 |
| RAD-ALT10-C02-13 | 369779,50 | 8224342,65 | 521,99 |
| RAD-ALT10-C02-14 | 369787,47 | 8224348,68 | 521,98 |
| RAD-ALT10-C02-15 | 369793,17 | 8224356,89 | 521,99 |
| RAD-ALT10-C02-16 | 369799,73 | 8224364,44 | 522,00 |
| RAD-ALT10-C02-17 | 369807,08 | 8224371,22 | 522,00 |
| RAD-ALT10-C02-18 | 369814,56 | 8224377,86 | 522,01 |
| RAD-ALT10-C02-19 | 369822,09 | 8224384,44 | 522,02 |
| RAD-ALT10-C02-20 | 369830,06 | 8224390,48 | 522,02 |
| RAD-ALT10-C02-21 | 369838,31 | 8224396,13 | 522,03 |
| RAD-ALT10-C02-22 | 369846,89 | 8224401,27 | 522,01 |
| RAD-ALT10-C02-23 | 369855,63 | 8224406,13 | 522,00 |
| RAD-ALT10-C02-24 | 369864,29 | 8224411,12 | 522,00 |
| RAD-ALT10-C02-25 | 369872,91 | 8224416,18 | 521,99 |
| RAD-ALT10-C02-26 | 369881,56 | 8224421,22 | 521,98 |
| RAD-ALT10-C02-27 | 369890,21 | 8224426,22 | 521,98 |
| RAD-ALT10-C02-28 | 369899,00 | 8224431,00 | 521,97 |
| RAD-ALT10-C02-29 | 369907,95 | 8224435,46 | 521,98 |
| RAD-ALT10-C02-30 | 369916,85 | 8224439,50 | 521,99 |
| RAD-ALT10-C02-31 | 369926,37 | 8224443,23 | 522,00 |
| RAD-ALT10-C02-32 | 369935,08 | 8224448,12 | 522,01 |
| RAD-ALT10-C02-33 | 369943,04 | 8224454,19 | 522,02 |
| RAD-ALT10-C02-34 | 369951,24 | 8224459,91 | 522,00 |
| RAD-ALT10-C02-35 | 369959,86 | 8224464,98 | 521,98 |
| RAD-ALT10-C02-36 | 369968,39 | 8224470,19 | 521,97 |
| RAD-ALT10-C02-37 | 369976,80 | 8224475,61 | 521,98 |
| RAD-ALT10-C02-38 | 369985,57 | 8224480,39 | 521,99 |
| RAD-ALT10-C02-39 | 369994,87 | 8224484,07 | 522,00 |
| RAD-ALT10-C02-40 | 370003,43 | 8224489,20 | 522,01 |
| RAD-ALT10-C02-41 | 370010,71 | 8224496,06 | 522,01 |
| RAD-ALT10-C02-42 | 370017,31 | 8224503,57 | 522,02 |
| RAD-ALT10-C02-43 | 370022,74 | 8224511,96 | 522,03 |
| RAD-ALT10-C02-44 | 370028,26 | 8224520,30 | 522,04 |
| RAD-ALT10-C02-45 | 370033,90 | 8224528,55 | 522,04 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT10-C02-46 | 370039,49 | 8224536,85 | 522,03 |
| RAD-ALT10-C02-47 | 370044,45 | 8224545,53 | 522,03 |
| RAD-ALT10-C02-48 | 370049,40 | 8224554,22 | 522,03 |
| RAD-ALT10-C02-49 | 370054,16 | 8224563,01 | 522,03 |
| RAD-ALT10-C02-50 | 370058,82 | 8224571,86 | 522,03 |
| RAD-ALT10-C02-51 | 370063,38 | 8224580,76 | 522,02 |
| RAD-ALT10-C02-52 | 370067,82 | 8224589,72 | 522,02 |
| RAD-ALT10-C02-53 | 370071,70 | 8224598,94 | 522,02 |
| RAD-ALT10-C02-54 | 370076,00 | 8224610,00 | 522,02 |
| CURVA 03 | | | |
| RAD-ALT10-C03-01 | 369691,00 | 8224242,00 | 520,02 |
| RAD-ALT10-C03-02 | 369693,29 | 8224251,73 | 520,01 |
| RAD-ALT10-C03-03 | 369695,55 | 8224261,48 | 520,00 |
| RAD-ALT10-C03-04 | 369697,72 | 8224271,24 | 519,99 |
| RAD-ALT10-C03-05 | 369700,49 | 8224280,82 | 519,98 |
| RAD-ALT10-C03-06 | 369704,11 | 8224290,14 | 519,99 |
| RAD-ALT10-C03-07 | 369709,11 | 8224298,63 | 520,00 |
| RAD-ALT10-C03-08 | 369715,62 | 8224306,22 | 520,01 |
| RAD-ALT10-C03-09 | 369721,08 | 8224314,55 | 520,02 |
| RAD-ALT10-C03-10 | 369725,94 | 8224323,29 | 520,03 |
| RAD-ALT10-C03-11 | 369731,11 | 8224331,84 | 519,99 |
| RAD-ALT10-C03-12 | 369736,52 | 8224340,25 | 519,99 |
| RAD-ALT10-C03-13 | 369742,53 | 8224348,24 | 520,02 |
| RAD-ALT10-C03-14 | 369748,61 | 8224356,18 | 520,01 |
| RAD-ALT10-C03-15 | 369754,56 | 8224364,22 | 520,00 |
| RAD-ALT10-C03-16 | 369760,47 | 8224372,28 | 519,99 |
| RAD-ALT10-C03-17 | 369766,93 | 8224379,92 | 519,98 |
| RAD-ALT10-C03-18 | 369773,44 | 8224387,51 | 519,97 |
| RAD-ALT10-C03-19 | 369780,11 | 8224394,93 | 520,00 |
| RAD-ALT10-C03-20 | 369787,80 | 8224401,33 | 520,01 |
| RAD-ALT10-C03-21 | 369795,48 | 8224407,73 | 520,02 |
| RAD-ALT10-C03-22 | 369803,59 | 8224413,56 | 520,03 |
| RAD-ALT10-C03-23 | 369811,75 | 8224419,34 | 520,02 |
| RAD-ALT10-C03-24 | 369819,70 | 8224425,42 | 520,01 |
| RAD-ALT10-C03-25 | 369827,68 | 8224431,43 | 520,00 |
| RAD-ALT10-C03-26 | 369836,14 | 8224436,77 | 519,99 |
| RAD-ALT10-C03-27 | 369844,59 | 8224442,11 | 520,00 |
| RAD-ALT10-C03-28 | 369852,93 | 8224447,62 | 520,01 |
| RAD-ALT10-C03-29 | 369861,26 | 8224453,17 | 520,02 |
| RAD-ALT10-C03-30 | 369869,42 | 8224458,93 | 520,03 |
| RAD-ALT10-C03-31 | 369877,23 | 8224465,18 | 520,02 |
| RAD-ALT10-C03-32 | 369885,32 | 8224471,03 | 520,01 |
| RAD-ALT10-C03-33 | 369893,85 | 8224476,24 | 520,00 |
| RAD-ALT10-C03-34 | 369902,34 | 8224481,52 | 519,99 |
| RAD-ALT10-C03-35 | 369910,74 | 8224486,95 | 519,98 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT10-C03-36 | 369919,13 | 8224492,38 | 519,99 |
| RAD-ALT10-C03-37 | 369927,53 | 8224497,81 | 520,00 |
| RAD-ALT10-C03-38 | 369935,83 | 8224503,39 | 520,01 |
| RAD-ALT10-C03-39 | 369943,79 | 8224509,44 | 520,02 |
| RAD-ALT10-C03-40 | 369951,75 | 8224515,49 | 520,03 |
| RAD-ALT10-C03-41 | 369959,67 | 8224521,59 | 520,02 |
| RAD-ALT10-C03-42 | 369967,17 | 8224528,21 | 520,01 |
| RAD-ALT10-C03-43 | 369974,67 | 8224534,82 | 520,00 |
| RAD-ALT10-C03-44 | 369980,98 | 8224542,54 | 519,99 |
| RAD-ALT10-C03-45 | 369987,04 | 8224550,49 | 519,98 |
| RAD-ALT10-C03-46 | 369993,04 | 8224558,50 | 520,00 |
| RAD-ALT10-C03-47 | 369998,75 | 8224566,70 | 519,99 |
| RAD-ALT10-C03-48 | 370004,46 | 8224574,91 | 519,98 |
| RAD-ALT10-C03-49 | 370009,77 | 8224583,37 | 519,97 |
| RAD-ALT10-C03-50 | 370014,43 | 8224592,21 | 519,98 |
| RAD-ALT10-C03-51 | 370018,97 | 8224601,12 | 519,99 |
| RAD-ALT10-C03-52 | 370023,14 | 8224610,21 | 520,00 |
| RAD-ALT10-C03-53 | 370027,31 | 8224619,30 | 520,01 |
| RAD-ALT10-C03-54 | 370029,00 | 8224623,00 | 520,02 |
| CURVA 04 | | | |
| RAD-ALT10-C04-01 | 369713,00 | 8224418,00 | 519,02 |
| RAD-ALT10-C04-02 | 369716,16 | 8224427,49 | 519,02 |
| RAD-ALT10-C04-03 | 369719,33 | 8224436,97 | 519,01 |
| RAD-ALT10-C04-04 | 369723,71 | 8224445,84 | 519,00 |
| RAD-ALT10-C04-05 | 369729,48 | 8224454,01 | 518,99 |
| RAD-ALT10-C04-06 | 369736,14 | 8224461,30 | 519,02 |
| RAD-ALT10-C04-07 | 369744,20 | 8224467,22 | 519,01 |
| RAD-ALT10-C04-08 | 369751,88 | 8224473,60 | 519,00 |
| RAD-ALT10-C04-09 | 369759,21 | 8224480,41 | 518,99 |
| RAD-ALT10-C04-10 | 369767,49 | 8224485,86 | 518,98 |
| RAD-ALT10-C04-11 | 369776,35 | 8224490,49 | 518,99 |
| RAD-ALT10-C04-12 | 369785,22 | 8224495,11 | 519,00 |
| RAD-ALT10-C04-13 | 369794,16 | 8224499,58 | 519,01 |
| RAD-ALT10-C04-14 | 369803,11 | 8224504,05 | 519,02 |
| RAD-ALT10-C04-15 | 369811,58 | 8224509,31 | 519,03 |
| RAD-ALT10-C04-16 | 369819,69 | 8224515,16 | 518,99 |
| RAD-ALT10-C04-17 | 369827,94 | 8224520,80 | 518,99 |
| RAD-ALT10-C04-18 | 369836,47 | 8224526,01 | 519,02 |
| RAD-ALT10-C04-19 | 369844,81 | 8224531,50 | 519,01 |
| RAD-ALT10-C04-20 | 369852,49 | 8224537,91 | 519,00 |
| RAD-ALT10-C04-21 | 369860,17 | 8224544,31 | 518,99 |
| RAD-ALT10-C04-22 | 369867,85 | 8224550,71 | 518,98 |
| RAD-ALT10-C04-23 | 369875,53 | 8224557,11 | 518,97 |
| RAD-ALT10-C04-24 | 369883,31 | 8224563,40 | 519,00 |
| RAD-ALT10-C04-25 | 369891,16 | 8224569,60 | 519,01 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT10-C04-26 | 369898,93 | 8224575,88 | 519,02 |
| RAD-ALT10-C04-27 | 369906,18 | 8224582,77 | 519,03 |
| RAD-ALT10-C04-28 | 369913,43 | 8224589,66 | 519,02 |
| RAD-ALT10-C04-29 | 369920,35 | 8224596,85 | 519,01 |
| RAD-ALT10-C04-30 | 369926,71 | 8224604,57 | 519,00 |
| RAD-ALT10-C04-31 | 369932,91 | 8224612,40 | 518,99 |
| RAD-ALT10-C04-32 | 369938,38 | 8224620,78 | 519,00 |
| RAD-ALT10-C04-33 | 369943,84 | 8224629,15 | 519,01 |
| RAD-ALT10-C04-34 | 369949,63 | 8224637,29 | 519,02 |
| RAD-ALT10-C04-35 | 369955,88 | 8224645,10 | 519,03 |
| RAD-ALT10-C04-36 | 369959,00 | 8224649,00 | 519,02 |
| CURVA 05 | | | |
| RAD-ALT10-C05-01 | 369645,00 | 8224248,00 | 518,01 |
| RAD-ALT10-C05-02 | 369645,83 | 8224257,97 | 518,00 |
| RAD-ALT10-C05-03 | 369647,47 | 8224267,82 | 517,99 |
| RAD-ALT10-C05-04 | 369649,12 | 8224277,68 | 518,02 |
| RAD-ALT10-C05-05 | 369649,83 | 8224287,65 | 518,01 |
| RAD-ALT10-C05-06 | 369651,97 | 8224297,39 | 518,00 |
| RAD-ALT10-C05-07 | 369654,13 | 8224307,12 | 517,99 |
| RAD-ALT10-C05-08 | 369654,76 | 8224317,10 | 517,98 |
| RAD-ALT10-C05-09 | 369657,44 | 8224326,58 | 517,99 |
| RAD-ALT10-C05-10 | 369661,45 | 8224335,74 | 518,00 |
| RAD-ALT10-C05-11 | 369664,20 | 8224345,34 | 518,01 |
| RAD-ALT10-C05-12 | 369666,74 | 8224355,01 | 518,02 |
| RAD-ALT10-C05-13 | 369669,18 | 8224364,71 | 518,03 |
| RAD-ALT10-C05-14 | 369671,60 | 8224374,41 | 517,99 |
| RAD-ALT10-C05-15 | 369674,04 | 8224384,11 | 517,99 |
| RAD-ALT10-C05-16 | 369677,02 | 8224393,66 | 518,02 |
| RAD-ALT10-C05-17 | 369679,78 | 8224403,26 | 518,01 |
| RAD-ALT10-C05-18 | 369682,12 | 8224412,98 | 518,00 |
| RAD-ALT10-C05-19 | 369683,01 | 8224422,88 | 517,99 |
| RAD-ALT10-C05-20 | 369683,00 | 8224432,88 | 517,98 |
| RAD-ALT10-C05-21 | 369683,43 | 8224442,86 | 517,97 |
| RAD-ALT10-C05-22 | 369684,18 | 8224452,83 | 518,00 |
| RAD-ALT10-C05-23 | 369686,35 | 8224462,59 | 518,01 |
| RAD-ALT10-C05-24 | 369688,89 | 8224472,23 | 518,02 |
| RAD-ALT10-C05-25 | 369692,61 | 8224481,52 | 518,03 |
| RAD-ALT10-C05-26 | 369695,31 | 8224491,11 | 518,02 |
| RAD-ALT10-C05-27 | 369697,61 | 8224500,83 | 518,01 |
| RAD-ALT10-C05-28 | 369700,77 | 8224510,32 | 518,00 |
| RAD-ALT10-C05-29 | 369705,40 | 8224519,09 | 517,99 |
| RAD-ALT10-C05-30 | 369710,80 | 8224527,50 | 518,00 |
| RAD-ALT10-C05-31 | 369715,47 | 8224536,34 | 518,01 |
| RAD-ALT10-C05-32 | 369721,03 | 8224544,39 | 518,02 |
| RAD-ALT10-C05-33 | 369729,29 | 8224550,03 | 518,03 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT10-C05-34 | 369737,55 | 8224555,67 | 518,02 |
| RAD-ALT10-C05-35 | 369745,65 | 8224561,51 | 518,01 |
| RAD-ALT10-C05-36 | 369753,13 | 8224568,15 | 518,00 |
| RAD-ALT10-C05-37 | 369760,60 | 8224574,79 | 517,99 |
| RAD-ALT10-C05-38 | 369768,93 | 8224580,19 | 517,98 |
| RAD-ALT10-C05-39 | 369777,83 | 8224584,75 | 517,99 |
| RAD-ALT10-C05-40 | 369786,73 | 8224589,31 | 518,00 |
| RAD-ALT10-C05-41 | 369795,30 | 8224594,41 | 518,01 |
| RAD-ALT10-C05-42 | 369803,50 | 8224600,15 | 518,02 |
| RAD-ALT10-C05-43 | 369811,69 | 8224605,88 | 518,03 |
| RAD-ALT10-C05-44 | 369819,88 | 8224611,62 | 518,02 |
| RAD-ALT10-C05-45 | 369826,32 | 8224619,25 | 518,01 |
| RAD-ALT10-C05-46 | 369832,68 | 8224626,97 | 518,00 |
| RAD-ALT10-C05-47 | 369839,03 | 8224634,69 | 517,99 |
| RAD-ALT10-C05-48 | 369845,39 | 8224642,41 | 517,98 |
| RAD-ALT10-C05-49 | 369850,86 | 8224650,75 | 518,00 |
| RAD-ALT10-C05-50 | 369856,02 | 8224659,32 | 517,99 |
| RAD-ALT10-C05-51 | 369861,17 | 8224667,89 | 517,98 |
| RAD-ALT10-C05-52 | 369866,33 | 8224676,46 | 517,97 |
| RAD-ALT10-C05-53 | 369871,49 | 8224685,02 | 517,98 |
| RAD-ALT10-C05-54 | 369876,65 | 8224693,59 | 517,99 |
| RAD-ALT10-C05-55 | 369882,29 | 8224702,97 | 518,00 |
| CURVA 06 | | | |
| RAD-ALT10-C06-01 | 369701,31 | 8224577,90 | 512,90 |
| RAD-ALT10-C06-02 | 369695,30 | 8224571,74 | 512,90 |
| RAD-ALT10-C06-03 | 369689,16 | 8224566,22 | 512,89 |
| RAD-ALT10-C06-04 | 369683,98 | 8224559,56 | 512,89 |
| RAD-ALT10-C06-05 | 369677,86 | 8224554,30 | 512,89 |
| RAD-ALT10-C06-06 | 369672,14 | 8224547,99 | 512,90 |
| RAD-ALT10-C06-07 | 369670,79 | 8224537,64 | 512,89 |
| RAD-ALT10-C06-08 | 369666,88 | 8224529,13 | 512,89 |
| RAD-ALT10-C06-09 | 369663,41 | 8224519,58 | 512,90 |
| RAD-ALT10-C06-10 | 369660,00 | 8224510,10 | 512,90 |
| RAD-ALT10-C06-11 | 369654,40 | 8224502,31 | 512,90 |
| RAD-ALT10-C06-12 | 369648,61 | 8224496,14 | 512,89 |
| RAD-ALT10-C06-13 | 369644,67 | 8224487,13 | 512,90 |
| RAD-ALT10-C06-14 | 369642,57 | 8224479,16 | 512,89 |
| RAD-ALT10-C06-15 | 369641,71 | 8224468,96 | 512,91 |
| RAD-ALT10-C06-16 | 369640,67 | 8224459,43 | 512,91 |
| RAD-ALT10-C06-17 | 369635,98 | 8224452,46 | 512,90 |
| RAD-ALT10-C06-18 | 369633,29 | 8224444,04 | 512,89 |
| RAD-ALT10-C06-19 | 369628,49 | 8224434,41 | 512,91 |
| RAD-ALT10-C06-20 | 369624,71 | 8224425,79 | 512,92 |
| RAD-ALT10-C06-21 | 369620,95 | 8224417,38 | 512,89 |
| RAD-ALT10-C06-22 | 369614,44 | 8224409,58 | 512,91 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT10-C06-23 | 369611,62 | 8224400,75 | 512,90 |
| RAD-ALT10-C06-24 | 369607,69 | 8224391,72 | 512,90 |
| RAD-ALT10-C06-25 | 369605,00 | 8224382,45 | 512,90 |
| RAD-ALT10-C06-26 | 369603,25 | 8224373,21 | 512,90 |
| RAD-ALT10-C06-27 | 369600,69 | 8224364,59 | 512,90 |
| RAD-ALT10-C06-28 | 369598,73 | 8224355,71 | 512,91 |
| RAD-ALT10-C06-29 | 369596,16 | 8224345,59 | 512,90 |
| RAD-ALT10-C06-30 | 369594,01 | 8224336,35 | 512,91 |
| RAD-ALT10-C06-31 | 369592,86 | 8224326,79 | 512,89 |
| RAD-ALT10-C06-32 | 369591,10 | 8224317,38 | 512,89 |
| RAD-ALT10-C06-33 | 369591,13 | 8224306,79 | 512,90 |
| RAD-ALT10-C06-34 | 369707,59 | 8224585,90 | 512,90 |
| RAD-ALT10-C06-35 | 369719,70 | 8224590,01 | 512,90 |
| RAD-ALT10-C06-36 | 369725,71 | 8224596,59 | 512,89 |
| RAD-ALT10-C06-37 | 369730,06 | 8224603,15 | 512,89 |
| RAD-ALT10-C06-38 | 369742,43 | 8224603,83 | 512,89 |
| RAD-ALT10-C06-39 | 369751,76 | 8224611,12 | 512,90 |
| RAD-ALT10-C06-40 | 369761,26 | 8224617,63 | 512,90 |
| RAD-ALT10-C06-41 | 369769,48 | 8224626,38 | 512,90 |
| RAD-ALT10-C06-42 | 369774,73 | 8224633,91 | 512,90 |
| RAD-ALT10-C06-43 | 369780,24 | 8224643,64 | 512,91 |
| RAD-ALT10-C06-44 | 369784,79 | 8224652,85 | 512,89 |
| RAD-ALT10-C06-45 | 369792,04 | 8224660,08 | 512,90 |
| RAD-ALT10-C06-46 | 369799,51 | 8224670,61 | 512,90 |
| RAD-ALT10-C06-47 | 369803,80 | 8224678,84 | 512,91 |
| RAD-ALT10-C06-48 | 369808,55 | 8224687,63 | 512,90 |
| RAD-ALT10-C06-49 | 369813,81 | 8224696,13 | 512,89 |
| RAD-ALT10-C06-50 | 369819,35 | 8224703,93 | 512,91 |
| RAD-ALT10-C06-51 | 369824,16 | 8224711,78 | 512,90 |
| RAD-ALT10-C06-52 | 369829,08 | 8224719,66 | 512,90 |
| RAD-ALT10-C06-53 | 369834,45 | 8224728,22 | 512,90 |
| RAD-ALT10-C06-54 | 369840,15 | 8224738,75 | 512,90 |
| CURVA 07 | | | |
| RAD-ALT10-C07-01 | 369924,48 | 8224717,18 | 522,80 |
| RAD-ALT10-C07-02 | 369929,65 | 8224724,10 | 522,79 |
| RAD-ALT10-C07-03 | 369935,99 | 8224730,36 | 522,80 |
| RAD-ALT10-C07-04 | 369941,00 | 8224738,88 | 522,80 |
| RAD-ALT10-C07-05 | 369945,98 | 8224746,40 | 522,81 |
| RAD-ALT10-C07-06 | 369950,67 | 8224754,49 | 522,79 |
| RAD-ALT10-C07-07 | 369955,54 | 8224761,68 | 522,81 |
| RAD-ALT10-C07-08 | 369958,38 | 8224769,62 | 522,81 |
| RAD-ALT10-C07-09 | 369961,97 | 8224776,09 | 522,80 |
| RAD-ALT10-C07-10 | 369968,77 | 8224782,09 | 522,81 |
| RAD-ALT10-C07-11 | 369972,29 | 8224791,62 | 522,81 |
| RAD-ALT10-C07-12 | 369978,42 | 8224799,39 | 522,81 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT10-C07-13 | 369984,10 | 8224808,23 | 522,79 |
| RAD-ALT10-C07-14 | 369985,66 | 8224817,28 | 522,81 |
| RAD-ALT10-C07-15 | 369987,03 | 8224828,56 | 522,79 |
| RAD-ALT10-C07-16 | 369990,84 | 8224836,79 | 522,80 |
| RAD-ALT10-C07-17 | 369991,86 | 8224847,29 | 522,79 |
| RAD-ALT10-C07-18 | 369995,15 | 8224855,54 | 522,81 |
| RAD-ALT10-C07-19 | 370000,13 | 8224864,73 | 522,80 |
| RAD-ALT10-C07-20 | 370002,50 | 8224874,24 | 522,82 |
| RAD-ALT10-C07-21 | 370003,88 | 8224881,53 | 522,79 |
| RAD-ALT10-C07-22 | 370009,74 | 8224889,74 | 522,81 |
| RAD-ALT10-C07-23 | 370015,49 | 8224899,30 | 522,81 |
| RAD-ALT10-C07-24 | 370017,33 | 8224913,82 | 522,81 |
| RAD-ALT10-C07-25 | 370021,76 | 8224923,07 | 522,80 |
| RAD-ALT10-C07-26 | 370025,93 | 8224933,19 | 522,81 |
| RAD-ALT10-C07-27 | 370028,35 | 8224941,28 | 522,79 |
| RAD-ALT10-C07-28 | 370031,19 | 8224952,00 | 522,81 |
| RAD-ALT10-C07-29 | 370035,59 | 8224961,87 | 522,81 |
| RAD-ALT10-C07-30 | 370041,42 | 8224971,32 | 522,81 |
| RAD-ALT10-C07-31 | 370047,42 | 8224980,32 | 522,79 |
| RAD-ALT10-C07-32 | 370052,74 | 8224989,42 | 522,81 |
| RAD-ALT10-C07-33 | 370055,68 | 8224998,47 | 522,79 |
| RAD-ALT10-C07-34 | 370062,84 | 8225013,13 | 522,80 |
| RAD-ALT10-C07-35 | 370066,78 | 8225023,38 | 522,79 |
| RAD-ALT10-C07-36 | 370072,48 | 8225034,72 | 522,81 |
| RAD-ALT10-C07-37 | 370076,12 | 8225044,49 | 522,80 |
| RAD-ALT10-C07-38 | 370079,69 | 8225053,17 | 522,80 |
| CURVA 08 | | | |
| RAD-ALT10-C08-01 | 369874,77 | 8224744,72 | 520,61 |
| RAD-ALT10-C08-02 | 369880,81 | 8224752,37 | 520,61 |
| RAD-ALT10-C08-03 | 369887,77 | 8224760,63 | 520,61 |
| RAD-ALT10-C08-04 | 369893,20 | 8224769,34 | 520,61 |
| RAD-ALT10-C08-05 | 369898,38 | 8224777,71 | 520,60 |
| RAD-ALT10-C08-06 | 369902,24 | 8224786,75 | 520,60 |
| RAD-ALT10-C08-07 | 369906,04 | 8224794,01 | 520,60 |
| RAD-ALT10-C08-08 | 369912,26 | 8224802,13 | 520,60 |
| RAD-ALT10-C08-09 | 369918,32 | 8224809,13 | 520,59 |
| RAD-ALT10-C08-10 | 369922,08 | 8224817,77 | 520,60 |
| RAD-ALT10-C08-11 | 369924,64 | 8224825,41 | 520,60 |
| RAD-ALT10-C08-12 | 369928,81 | 8224834,37 | 520,60 |
| RAD-ALT10-C08-13 | 369931,41 | 8224843,73 | 520,61 |
| RAD-ALT10-C08-14 | 369930,52 | 8224854,39 | 520,59 |
| RAD-ALT10-C08-15 | 369937,43 | 8224864,79 | 520,59 |
| RAD-ALT10-C08-16 | 369942,44 | 8224873,89 | 520,60 |
| RAD-ALT10-C08-17 | 369947,10 | 8224881,46 | 520,58 |
| RAD-ALT10-C08-18 | 369952,16 | 8224891,99 | 520,60 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT10-C08-19 | 369956,76 | 8224900,87 | 520,58 |
| RAD-ALT10-C08-20 | 369960,43 | 8224910,27 | 520,60 |
| RAD-ALT10-C08-21 | 369964,41 | 8224918,10 | 520,59 |
| RAD-ALT10-C08-22 | 369966,97 | 8224927,77 | 520,60 |
| RAD-ALT10-C08-23 | 369970,95 | 8224936,71 | 520,60 |
| RAD-ALT10-C08-24 | 369974,10 | 8224947,74 | 520,58 |
| RAD-ALT10-C08-25 | 369977,41 | 8224957,71 | 520,60 |
| RAD-ALT10-C08-26 | 369981,30 | 8224965,59 | 520,59 |
| RAD-ALT10-C08-27 | 369985,83 | 8224974,18 | 520,60 |
| RAD-ALT10-C08-28 | 369991,12 | 8224981,46 | 521,61 |
| RAD-ALT10-C08-29 | 369991,28 | 8224981,58 | 520,59 |
| RAD-ALT10-C08-30 | 369996,25 | 8224990,47 | 520,59 |
| RAD-ALT10-C08-31 | 369996,75 | 8225000,86 | 520,61 |
| RAD-ALT10-C08-32 | 369998,40 | 8225010,84 | 520,59 |
| RAD-ALT10-C08-33 | 370002,25 | 8225021,31 | 520,59 |
| RAD-ALT10-C08-34 | 370004,42 | 8225030,83 | 520,60 |
| RAD-ALT10-C08-35 | 370009,61 | 8225040,08 | 520,59 |
| RAD-ALT10-C08-36 | 370013,87 | 8225048,14 | 520,60 |
| RAD-ALT10-C08-37 | 370017,91 | 8225056,31 | 520,59 |
| RAD-ALT10-C08-38 | 370021,12 | 8225066,45 | 520,61 |
| RAD-ALT10-C08-39 | 370023,15 | 8225077,44 | 520,60 |
| RAD-ALT10-C08-40 | 370026,21 | 8225090,46 | 520,59 |
| CURVA 09 | | | |
| RAD-ALT10-C09-01 | 369784,33 | 8224769,12 | 519,00 |
| RAD-ALT10-C09-02 | 369800,91 | 8224772,74 | 519,00 |
| RAD-ALT10-C09-03 | 369810,85 | 8224778,80 | 518,99 |
| RAD-ALT10-C09-04 | 369819,33 | 8224784,69 | 518,99 |
| RAD-ALT10-C09-05 | 369827,14 | 8224790,41 | 518,99 |
| RAD-ALT10-C09-06 | 369836,08 | 8224794,89 | 518,99 |
| RAD-ALT10-C09-07 | 369845,05 | 8224800,22 | 519,00 |
| RAD-ALT10-C09-08 | 369852,97 | 8224807,24 | 519,01 |
| RAD-ALT10-C09-09 | 369863,84 | 8224813,28 | 519,01 |
| RAD-ALT10-C09-10 | 369870,86 | 8224819,34 | 518,99 |
| RAD-ALT10-C09-11 | 369875,66 | 8224830,23 | 519,00 |
| RAD-ALT10-C09-12 | 369880,54 | 8224840,40 | 519,01 |
| RAD-ALT10-C09-13 | 369887,69 | 8224846,09 | 519,01 |
| RAD-ALT10-C09-14 | 369891,79 | 8224856,43 | 519,02 |
| RAD-ALT10-C09-15 | 369895,42 | 8224867,61 | 519,01 |
| RAD-ALT10-C09-16 | 369898,89 | 8224878,33 | 519,00 |
| RAD-ALT10-C09-17 | 369903,66 | 8224888,12 | 518,99 |
| RAD-ALT10-C09-18 | 369907,33 | 8224897,32 | 518,99 |
| RAD-ALT10-C09-19 | 369913,12 | 8224905,13 | 519,00 |
| RAD-ALT10-C09-20 | 369918,84 | 8224912,18 | 519,02 |
| RAD-ALT10-C09-21 | 369923,53 | 8224921,00 | 519,02 |
| RAD-ALT10-C09-22 | 369926,30 | 8224929,65 | 519,02 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT10-C09-23 | 369929,15 | 8224939,27 | 519,00 |
| RAD-ALT10-C09-24 | 369934,30 | 8224948,54 | 519,02 |
| RAD-ALT10-C09-25 | 369937,93 | 8224956,64 | 519,00 |
| RAD-ALT10-C09-26 | 369942,93 | 8224964,78 | 519,02 |
| RAD-ALT10-C09-27 | 369945,36 | 8224972,86 | 519,00 |
| RAD-ALT10-C09-28 | 369948,35 | 8224981,82 | 519,01 |
| RAD-ALT10-C09-29 | 369952,76 | 8224990,08 | 519,00 |
| RAD-ALT10-C09-30 | 369956,69 | 8224998,30 | 519,00 |
| RAD-ALT10-C09-31 | 369960,84 | 8225007,35 | 519,01 |
| RAD-ALT10-C09-32 | 369964,42 | 8225015,53 | 519,00 |
| RAD-ALT10-C09-33 | 369968,20 | 8225023,28 | 519,00 |
| RAD-ALT10-C09-34 | 369969,91 | 8225033,02 | 519,00 |
| RAD-ALT10-C09-35 | 369972,62 | 8225040,87 | 519,01 |
| RAD-ALT10-C09-35 | 369976,80 | 8225048,84 | 519,00 |
| RAD-ALT10-C09-36 | 369979,98 | 8225060,53 | 518,99 |
| RAD-ALT10-C09-37 | 369983,78 | 8225069,18 | 519,01 |
| RAD-ALT10-C09-38 | 369988,77 | 8225077,70 | 519,00 |
| RAD-ALT10-C09-39 | 369991,10 | 8225087,20 | 519,01 |

Locação de Terraços - RAD-ALT-11

| NOME | ESTE | NORTE | ALTITUDE |
|------------------|-----------|------------|----------|
| CURVA 01 | | | |
| RAD-ALT11-C01-01 | 369370,65 | 8223127,25 | 530,11 |
| RAD-ALT11-C01-02 | 369371,90 | 8223136,29 | 530,10 |
| RAD-ALT11-C01-03 | 369375,57 | 8223146,30 | 530,09 |
| RAD-ALT11-C01-04 | 369382,30 | 8223155,92 | 530,11 |
| RAD-ALT11-C01-05 | 369386,54 | 8223165,24 | 530,11 |
| RAD-ALT11-C01-06 | 369393,43 | 8223174,51 | 530,10 |
| CURVA 02 | | | |
| RAD-ALT11-C02-01 | 369331,52 | 8223135,19 | 529,51 |
| RAD-ALT11-C02-02 | 369335,64 | 8223144,30 | 529,50 |
| RAD-ALT11-C02-03 | 369342,31 | 8223152,54 | 529,50 |
| RAD-ALT11-C02-04 | 369351,42 | 8223160,37 | 529,49 |
| RAD-ALT11-C02-05 | 369357,26 | 8223168,65 | 529,50 |
| RAD-ALT11-C02-06 | 369364,14 | 8223177,56 | 529,51 |
| RAD-ALT11-C02-07 | 369370,65 | 8223186,95 | 529,51 |
| RAD-ALT11-C02-08 | 369378,49 | 8223195,24 | 529,50 |
| RAD-ALT11-C02-09 | 369384,82 | 8223203,38 | 529,50 |
| RAD-ALT11-C02-10 | 369391,29 | 8223213,05 | 529,51 |
| RAD-ALT11-C02-11 | 369401,57 | 8223221,98 | 529,50 |
| RAD-ALT11-C02-12 | 369409,79 | 8223231,04 | 529,50 |
| CURVA 03 | | | |
| RAD-ALT11-C03-01 | 369385,90 | 8223423,15 | 527,50 |
| RAD-ALT11-C03-02 | 369382,44 | 8223415,79 | 527,49 |
| RAD-ALT11-C03-03 | 369381,29 | 8223405,42 | 527,49 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT11-C03-04 | 369380,03 | 8223396,77 | 527,49 |
| RAD-ALT11-C03-05 | 369380,25 | 8223386,22 | 527,49 |
| RAD-ALT11-C03-06 | 369380,07 | 8223376,85 | 527,51 |
| RAD-ALT11-C03-07 | 369377,91 | 8223367,61 | 527,49 |
| RAD-ALT11-C03-08 | 369376,93 | 8223358,10 | 527,50 |
| RAD-ALT11-C03-09 | 369375,79 | 8223347,86 | 527,49 |
| RAD-ALT11-C03-10 | 369373,16 | 8223339,20 | 527,51 |
| RAD-ALT11-C03-11 | 369370,44 | 8223330,25 | 527,50 |
| RAD-ALT11-C03-12 | 369367,80 | 8223321,25 | 527,50 |
| RAD-ALT11-C03-13 | 369370,46 | 8223309,25 | 527,50 |
| RAD-ALT11-C03-14 | 369368,30 | 8223299,21 | 527,50 |
| RAD-ALT11-C03-15 | 369365,69 | 8223289,77 | 527,49 |
| RAD-ALT11-C03-16 | 369363,21 | 8223280,76 | 527,51 |
| RAD-ALT11-C03-17 | 369360,44 | 8223271,67 | 527,50 |
| RAD-ALT11-C03-18 | 369356,62 | 8223262,17 | 527,51 |
| RAD-ALT11-C03-19 | 369349,37 | 8223253,84 | 527,50 |
| RAD-ALT11-C03-20 | 369342,51 | 8223246,80 | 527,51 |
| RAD-ALT11-C03-21 | 369336,14 | 8223239,03 | 527,50 |
| RAD-ALT11-C03-22 | 369329,53 | 8223230,32 | 527,51 |
| RAD-ALT11-C03-23 | 369325,04 | 8223220,25 | 527,50 |
| RAD-ALT11-C03-24 | 369318,79 | 8223211,62 | 527,51 |
| RAD-ALT11-C03-25 | 369309,56 | 8223205,25 | 527,50 |
| RAD-ALT11-C03-26 | 369301,02 | 8223198,68 | 527,51 |
| RAD-ALT11-C03-27 | 369293,24 | 8223192,25 | 527,49 |
| RAD-ALT11-C03-28 | 369283,40 | 8223186,55 | 527,51 |
| RAD-ALT11-C03-29 | 369274,90 | 8223180,54 | 527,50 |
| RAD-ALT11-C03-30 | 369265,89 | 8223172,84 | 527,49 |
| RAD-ALT11-C03-31 | 369258,51 | 8223166,07 | 527,51 |
| RAD-ALT11-C03-32 | 369249,40 | 8223156,36 | 527,50 |
| CURVA 04 | | | |
| RAD-ALT11-C04-01 | 369197,79 | 8223169,64 | 526,01 |
| RAD-ALT11-C04-02 | 369205,20 | 8223176,01 | 525,99 |
| RAD-ALT11-C04-03 | 369212,81 | 8223182,82 | 525,99 |
| RAD-ALT11-C04-04 | 369222,14 | 8223187,87 | 526,02 |
| RAD-ALT11-C04-05 | 369228,87 | 8223193,53 | 525,99 |
| RAD-ALT11-C04-06 | 369238,34 | 8223198,97 | 526,02 |
| RAD-ALT11-C04-07 | 369247,70 | 8223204,48 | 526,00 |
| RAD-ALT11-C04-08 | 369255,00 | 8223210,27 | 525,99 |
| RAD-ALT11-C04-09 | 369261,41 | 8223216,61 | 525,99 |
| RAD-ALT11-C04-10 | 369268,45 | 8223223,06 | 526,01 |
| RAD-ALT11-C04-11 | 369275,38 | 8223229,62 | 526,01 |
| RAD-ALT11-C04-12 | 369282,05 | 8223236,23 | 525,98 |
| RAD-ALT11-C04-13 | 369290,78 | 8223246,47 | 525,99 |
| RAD-ALT11-C04-14 | 369299,49 | 8223257,67 | 525,99 |
| RAD-ALT11-C04-15 | 369309,26 | 8223269,48 | 526,01 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT11-C04-16 | 369314,99 | 8223281,83 | 526,01 |
| RAD-ALT11-C04-17 | 369319,31 | 8223294,35 | 526,01 |
| RAD-ALT11-C04-18 | 369324,41 | 8223307,09 | 526,01 |
| RAD-ALT11-C04-19 | 369328,39 | 8223320,11 | 525,99 |
| RAD-ALT11-C04-20 | 369331,79 | 8223331,86 | 525,99 |
| RAD-ALT11-C04-21 | 369335,42 | 8223345,52 | 526,00 |
| RAD-ALT11-C04-22 | 369338,48 | 8223358,18 | 526,02 |
| RAD-ALT11-C04-23 | 369339,28 | 8223373,75 | 526,02 |
| RAD-ALT11-C04-24 | 369340,35 | 8223386,31 | 526,01 |
| RAD-ALT11-C04-25 | 369339,92 | 8223398,80 | 526,00 |
| RAD-ALT11-C04-26 | 369338,52 | 8223413,69 | 526,01 |
| RAD-ALT11-C04-27 | 369336,35 | 8223424,10 | 526,00 |
| RAD-ALT11-C04-28 | 369336,07 | 8223437,07 | 525,99 |
| CURVA 05 | | | |
| RAD-ALT11-C05-01 | 369459,12 | 8223447,20 | 527,69 |
| RAD-ALT11-C05-02 | 369462,23 | 8223456,30 | 527,70 |
| RAD-ALT11-C05-03 | 369465,42 | 8223465,23 | 527,71 |
| RAD-ALT11-C05-04 | 369468,50 | 8223474,00 | 527,70 |
| RAD-ALT11-C05-05 | 369471,59 | 8223482,48 | 527,71 |
| RAD-ALT11-C05-06 | 369474,91 | 8223491,30 | 527,70 |
| RAD-ALT11-C05-07 | 369477,80 | 8223499,38 | 527,70 |
| RAD-ALT11-C05-08 | 369481,07 | 8223508,11 | 527,70 |
| RAD-ALT11-C05-09 | 369484,34 | 8223516,88 | 527,71 |
| RAD-ALT11-C05-10 | 369486,99 | 8223524,70 | 527,69 |
| RAD-ALT11-C05-11 | 369489,89 | 8223532,48 | 527,70 |
| RAD-ALT11-C05-12 | 369495,06 | 8223540,90 | 527,69 |
| RAD-ALT11-C05-13 | 369501,78 | 8223548,65 | 527,71 |
| RAD-ALT11-C05-14 | 369506,86 | 8223556,53 | 527,70 |
| RAD-ALT11-C05-15 | 369513,06 | 8223564,67 | 527,71 |
| RAD-ALT11-C05-16 | 369521,67 | 8223575,84 | 527,70 |
| CURVA 06 | | | |
| RAD-ALT11-C06-01 | 369501,45 | 8223649,00 | 526,71 |
| RAD-ALT11-C06-02 | 369496,91 | 8223640,81 | 526,71 |
| RAD-ALT11-C06-03 | 369490,80 | 8223632,63 | 526,70 |
| RAD-ALT11-C06-04 | 369481,66 | 8223622,97 | 526,70 |
| RAD-ALT11-C06-05 | 369474,38 | 8223615,76 | 526,71 |
| RAD-ALT11-C06-06 | 369457,21 | 8223610,27 | 526,71 |
| RAD-ALT11-C06-07 | 369449,34 | 8223601,79 | 526,71 |
| RAD-ALT11-C06-08 | 369445,83 | 8223592,17 | 526,71 |
| RAD-ALT11-C06-09 | 369440,61 | 8223582,78 | 526,70 |
| RAD-ALT11-C06-10 | 369434,80 | 8223574,65 | 526,70 |
| RAD-ALT11-C06-11 | 369427,90 | 8223566,57 | 526,70 |
| RAD-ALT11-C06-12 | 369422,42 | 8223557,78 | 526,69 |
| RAD-ALT11-C06-13 | 369416,77 | 8223548,17 | 526,70 |
| RAD-ALT11-C06-14 | 369412,24 | 8223535,44 | 526,69 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT11-C06-15 | 369409,15 | 8223526,42 | 526,69 |
| RAD-ALT11-C06-16 | 369405,56 | 8223517,94 | 526,70 |
| RAD-ALT11-C06-17 | 369404,85 | 8223506,63 | 526,70 |
| RAD-ALT11-C06-18 | 369402,41 | 8223497,84 | 526,69 |
| RAD-ALT11-C06-19 | 369400,98 | 8223486,49 | 526,69 |
| RAD-ALT11-C06-20 | 369398,47 | 8223477,25 | 526,70 |
| RAD-ALT11-C06-21 | 369396,73 | 8223467,06 | 526,70 |
| RAD-ALT11-C06-22 | 369394,12 | 8223458,14 | 526,71 |
| RAD-ALT11-C06-23 | 369391,67 | 8223449,13 | 526,70 |

CURVA 07

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT11-C07-01 | 369343,87 | 8223464,50 | 525,20 |
| RAD-ALT11-C07-02 | 369347,62 | 8223474,54 | 525,21 |
| RAD-ALT11-C07-03 | 369347,78 | 8223483,76 | 525,20 |
| RAD-ALT11-C07-04 | 369348,39 | 8223493,08 | 525,19 |
| RAD-ALT11-C07-05 | 369352,05 | 8223501,36 | 525,21 |
| RAD-ALT11-C07-06 | 369354,03 | 8223508,70 | 525,19 |
| RAD-ALT11-C07-07 | 369353,69 | 8223519,41 | 525,20 |
| RAD-ALT11-C07-08 | 369356,71 | 8223533,71 | 525,20 |
| RAD-ALT11-C07-09 | 369354,70 | 8223542,71 | 525,21 |
| RAD-ALT11-C07-10 | 369355,74 | 8223552,37 | 525,20 |
| RAD-ALT11-C07-11 | 369354,63 | 8223563,71 | 525,20 |
| RAD-ALT11-C07-12 | 369355,98 | 8223573,02 | 525,21 |
| RAD-ALT11-C07-13 | 369357,80 | 8223588,39 | 525,21 |
| RAD-ALT11-C07-14 | 369361,68 | 8223605,28 | 525,19 |
| RAD-ALT11-C07-15 | 369363,52 | 8223617,70 | 525,19 |
| RAD-ALT11-C07-16 | 369368,68 | 8223630,97 | 525,20 |
| RAD-ALT11-C07-17 | 369373,93 | 8223639,82 | 525,21 |
| RAD-ALT11-C07-18 | 369375,63 | 8223650,48 | 525,20 |
| RAD-ALT11-C07-19 | 369390,15 | 8223671,81 | 525,20 |
| RAD-ALT11-C07-20 | 369393,93 | 8223679,86 | 525,21 |
| RAD-ALT11-C07-21 | 369409,38 | 8223693,31 | 525,20 |

Locação de Terraços - RAD-ALT-12

| NOME | ESTE | NORTE | ALTITUDE |
|------------------|-------------|--------------|-----------------|
| CURVA 01 | | | |
| RAD-ALT12-C01-01 | 368155,21 | 8223774,11 | 526,18 |
| RAD-ALT12-C01-02 | 368158,85 | 8223784,08 | 526,21 |
| RAD-ALT12-C01-03 | 368160,65 | 8223794,14 | 526,18 |
| RAD-ALT12-C01-04 | 368162,49 | 8223806,86 | 526,22 |
| RAD-ALT12-C01-05 | 368162,68 | 8223819,66 | 526,17 |
| RAD-ALT12-C01-06 | 368162,52 | 8223831,78 | 526,20 |
| RAD-ALT12-C01-07 | 368163,72 | 8223843,11 | 526,18 |
| RAD-ALT12-C01-08 | 368165,24 | 8223854,90 | 526,18 |
| RAD-ALT12-C01-09 | 368161,72 | 8223866,34 | 526,18 |
| RAD-ALT12-C01-10 | 368158,13 | 8223877,13 | 526,17 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT12-C01-11 | 368156,50 | 8223888,65 | 526,17 |
| CURVA 02 | | | |
| RAD-ALT12-C02-01 | 368179,27 | 8223766,53 | 524,98 |
| RAD-ALT12-C02-02 | 368181,69 | 8223777,37 | 524,99 |
| RAD-ALT12-C02-03 | 368180,31 | 8223788,18 | 524,97 |
| RAD-ALT12-C02-04 | 368182,34 | 8223799,37 | 525,04 |
| RAD-ALT12-C02-05 | 368181,91 | 8223811,15 | 525,00 |
| RAD-ALT12-C02-06 | 368182,29 | 8223822,42 | 524,99 |
| RAD-ALT12-C02-07 | 368181,75 | 8223835,54 | 524,95 |
| RAD-ALT12-C02-08 | 368181,89 | 8223844,86 | 524,97 |
| RAD-ALT12-C02-09 | 368180,15 | 8223857,15 | 525,01 |
| RAD-ALT12-C02-10 | 368178,21 | 8223868,86 | 525,03 |
| RAD-ALT12-C02-11 | 368176,01 | 8223881,43 | 525,07 |
| RAD-ALT12-C02-12 | 368174,98 | 8223893,79 | 525,02 |
| RAD-ALT12-C02-13 | 368173,76 | 8223906,29 | 524,98 |
| RAD-ALT12-C02-14 | 368173,86 | 8223917,50 | 524,95 |
| RAD-ALT12-C02-15 | 368174,80 | 8223928,47 | 524,96 |
| RAD-ALT12-C02-16 | 368175,38 | 8223940,11 | 524,99 |
| RAD-ALT12-C02-17 | 368176,65 | 8223951,71 | 524,99 |
| RAD-ALT12-C02-18 | 368176,07 | 8223963,12 | 525,04 |
| RAD-ALT12-C02-19 | 368174,47 | 8223974,06 | 524,99 |
| RAD-ALT12-C02-20 | 368170,51 | 8223984,99 | 525,02 |
| RAD-ALT12-C02-21 | 368167,52 | 8223996,57 | 525,02 |
| RAD-ALT12-C02-22 | 368166,42 | 8224008,97 | 525,01 |
| RAD-ALT12-C02-23 | 368165,82 | 8224019,38 | 525,04 |
| RAD-ALT12-C02-24 | 368166,03 | 8224032,13 | 525,04 |
| RAD-ALT12-C02-25 | 368165,47 | 8224042,65 | 524,98 |
| RAD-ALT12-C02-26 | 368162,65 | 8224055,62 | 525,02 |
| CURVA 03 | | | |
| RAD-ALT12-C03-01 | 368180,05 | 8224038,81 | 523,99 |
| RAD-ALT12-C03-02 | 368179,58 | 8224049,86 | 523,99 |
| RAD-ALT12-C03-03 | 368179,74 | 8224061,03 | 523,99 |
| RAD-ALT12-C03-04 | 368180,68 | 8224072,92 | 524,02 |
| RAD-ALT12-C03-05 | 368182,81 | 8224084,20 | 524,00 |
| RAD-ALT12-C03-06 | 368183,52 | 8224096,19 | 523,99 |
| RAD-ALT12-C03-07 | 368186,80 | 8224108,87 | 524,02 |
| RAD-ALT12-C03-08 | 368186,44 | 8224120,35 | 524,00 |
| RAD-ALT12-C03-09 | 368185,63 | 8224133,07 | 523,98 |
| RAD-ALT12-C03-10 | 368186,63 | 8224145,81 | 523,99 |
| RAD-ALT12-C03-11 | 368186,51 | 8224154,86 | 524,03 |
| CURVA 04 | | | |
| RAD-ALT12-C04-01 | 368215,94 | 8223758,41 | 522,82 |
| RAD-ALT12-C04-02 | 368214,33 | 8223769,61 | 522,80 |
| RAD-ALT12-C04-03 | 368211,81 | 8223780,59 | 522,78 |
| RAD-ALT12-C04-04 | 368208,57 | 8223791,82 | 522,80 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT12-C04-05 | 368204,73 | 8223803,29 | 522,82 |
| RAD-ALT12-C04-06 | 368204,09 | 8223813,75 | 522,79 |
| RAD-ALT12-C04-07 | 368203,03 | 8223824,86 | 522,78 |
| RAD-ALT12-C04-08 | 368202,29 | 8223836,79 | 522,78 |
| RAD-ALT12-C04-09 | 368202,97 | 8223849,28 | 522,79 |
| RAD-ALT12-C04-10 | 368201,92 | 8223860,78 | 522,82 |
| RAD-ALT12-C04-11 | 368203,80 | 8223872,04 | 522,78 |
| RAD-ALT12-C04-12 | 368204,12 | 8223883,07 | 522,77 |
| RAD-ALT12-C04-13 | 368203,20 | 8223894,05 | 522,80 |
| RAD-ALT12-C04-14 | 368201,05 | 8223905,15 | 522,79 |
| RAD-ALT12-C04-15 | 368198,13 | 8223917,49 | 522,79 |
| RAD-ALT12-C04-16 | 368195,24 | 8223929,69 | 522,80 |
| RAD-ALT12-C04-17 | 368194,84 | 8223941,59 | 522,81 |
| RAD-ALT12-C04-18 | 368194,42 | 8223953,98 | 522,79 |
| RAD-ALT12-C04-19 | 368195,54 | 8223966,11 | 522,80 |
| RAD-ALT12-C04-20 | 368201,91 | 8223977,58 | 522,78 |
| RAD-ALT12-C04-21 | 368203,30 | 8223988,97 | 522,80 |
| RAD-ALT12-C04-22 | 368198,66 | 8223999,07 | 522,80 |
| RAD-ALT12-C04-23 | 368198,85 | 8224010,52 | 522,82 |
| RAD-ALT12-C04-24 | 368198,56 | 8224021,93 | 522,79 |
| RAD-ALT12-C04-25 | 368198,98 | 8224033,17 | 522,78 |
| RAD-ALT12-C04-26 | 368199,61 | 8224044,78 | 522,80 |
| RAD-ALT12-C04-27 | 368200,77 | 8224056,08 | 522,79 |
| RAD-ALT12-C04-28 | 368198,98 | 8224067,72 | 522,79 |
| RAD-ALT12-C04-29 | 368199,99 | 8224079,11 | 522,82 |
| RAD-ALT12-C04-30 | 368199,93 | 8224089,98 | 522,79 |
| RAD-ALT12-C04-31 | 368200,41 | 8224101,67 | 522,80 |
| RAD-ALT12-C04-32 | 368202,13 | 8224113,41 | 522,80 |
| RAD-ALT12-C04-33 | 368201,90 | 8224125,66 | 522,78 |
| RAD-ALT12-C04-34 | 368204,17 | 8224137,14 | 522,78 |
| RAD-ALT12-C04-35 | 368207,20 | 8224148,46 | 522,80 |
| RAD-ALT12-C04-36 | 368208,05 | 8224160,61 | 522,82 |
| RAD-ALT12-C04-37 | 368206,33 | 8224171,71 | 522,80 |
| RAD-ALT12-C04-38 | 368206,03 | 8224182,82 | 522,82 |
| RAD-ALT12-C04-39 | 368208,19 | 8224193,80 | 522,82 |
| RAD-ALT12-C04-40 | 368210,07 | 8224205,32 | 522,83 |
| RAD-ALT12-C04-41 | 368209,80 | 8224216,69 | 522,81 |
| RAD-ALT12-C04-42 | 368206,48 | 8224227,91 | 522,79 |
| CURVA 05 | | | |
| RAD-ALT12-C05-01 | 368231,63 | 8223759,32 | 521,61 |
| RAD-ALT12-C05-02 | 368232,97 | 8223770,71 | 521,61 |
| RAD-ALT12-C05-03 | 368232,05 | 8223781,77 | 521,62 |
| RAD-ALT12-C05-04 | 368231,10 | 8223792,71 | 521,61 |
| RAD-ALT12-C05-05 | 368230,01 | 8223803,84 | 521,62 |
| RAD-ALT12-C05-06 | 368228,55 | 8223814,55 | 521,62 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT12-C05-07 | 368226,13 | 8223825,77 | 521,61 |
| RAD-ALT12-C05-08 | 368224,35 | 8223836,07 | 521,58 |
| RAD-ALT12-C05-09 | 368221,97 | 8223849,34 | 521,59 |
| RAD-ALT12-C05-10 | 368222,34 | 8223859,85 | 521,60 |
| RAD-ALT12-C05-11 | 368221,66 | 8223871,55 | 521,60 |
| RAD-ALT12-C05-12 | 368221,75 | 8223881,61 | 521,60 |
| RAD-ALT12-C05-13 | 368222,24 | 8223892,78 | 521,62 |
| RAD-ALT12-C05-14 | 368221,03 | 8223904,54 | 521,60 |
| RAD-ALT12-C05-15 | 368219,33 | 8223915,75 | 521,60 |
| RAD-ALT12-C05-16 | 368218,59 | 8223926,43 | 521,59 |
| RAD-ALT12-C05-17 | 368217,81 | 8223936,56 | 521,60 |
| RAD-ALT12-C05-18 | 368216,45 | 8223948,00 | 521,59 |
| RAD-ALT12-C05-19 | 368214,31 | 8223960,06 | 521,61 |
| RAD-ALT12-C05-20 | 368213,11 | 8223971,70 | 521,56 |
| RAD-ALT12-C05-21 | 368214,49 | 8223982,33 | 521,62 |
| RAD-ALT12-C05-22 | 368215,65 | 8223993,34 | 521,60 |
| RAD-ALT12-C05-23 | 368216,40 | 8224004,63 | 521,60 |
| RAD-ALT12-C05-24 | 368217,68 | 8224015,40 | 521,61 |
| RAD-ALT12-C05-25 | 368219,73 | 8224031,33 | 521,58 |
| RAD-ALT12-C05-26 | 368218,83 | 8224042,19 | 521,58 |
| RAD-ALT12-C05-27 | 368218,83 | 8224054,20 | 521,59 |
| RAD-ALT12-C05-28 | 368218,44 | 8224066,57 | 521,57 |
| RAD-ALT12-C05-29 | 368218,00 | 8224078,02 | 521,60 |
| RAD-ALT12-C05-30 | 368218,59 | 8224090,74 | 521,58 |
| RAD-ALT12-C05-31 | 368218,21 | 8224102,69 | 521,59 |
| RAD-ALT12-C05-32 | 368218,44 | 8224115,21 | 521,60 |
| RAD-ALT12-C05-33 | 368218,41 | 8224128,29 | 521,58 |
| RAD-ALT12-C05-34 | 368218,30 | 8224139,70 | 521,62 |
| RAD-ALT12-C05-35 | 368219,87 | 8224150,91 | 521,58 |
| RAD-ALT12-C05-36 | 368220,49 | 8224162,71 | 521,61 |
| RAD-ALT12-C05-37 | 368221,24 | 8224175,08 | 521,63 |
| RAD-ALT12-C05-38 | 368225,01 | 8224186,17 | 521,59 |
| CURVA 06 | | | |
| RAD-ALT12-C06-01 | 368226,26 | 8224206,29 | 521,60 |
| RAD-ALT12-C06-02 | 368222,35 | 8224218,62 | 521,63 |
| RAD-ALT12-C06-03 | 368222,50 | 8224230,72 | 521,59 |
| RAD-ALT12-C06-04 | 368221,99 | 8224243,83 | 521,59 |
| CURVA 07 | | | |
| RAD-ALT12-C07-01 | 368241,01 | 8224260,54 | 520,42 |
| RAD-ALT12-C07-02 | 368239,30 | 8224249,20 | 520,38 |
| RAD-ALT12-C07-03 | 368238,53 | 8224237,82 | 520,38 |
| RAD-ALT12-C07-04 | 368238,27 | 8224228,00 | 520,42 |
| RAD-ALT12-C07-05 | 368240,31 | 8224217,13 | 520,42 |
| RAD-ALT12-C07-06 | 368238,75 | 8224205,90 | 520,39 |
| RAD-ALT12-C07-07 | 368236,83 | 8224195,09 | 520,41 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT12-C07-08 | 368232,19 | 8224185,14 | 520,37 |
| RAD-ALT12-C07-09 | 368233,84 | 8224174,12 | 520,39 |
| RAD-ALT12-C07-10 | 368234,55 | 8224161,50 | 520,41 |
| RAD-ALT12-C07-11 | 368235,10 | 8224151,44 | 520,40 |
| RAD-ALT12-C07-12 | 368236,20 | 8224140,86 | 520,39 |
| RAD-ALT12-C07-13 | 368238,46 | 8224129,33 | 520,39 |
| RAD-ALT12-C07-14 | 368236,70 | 8224118,37 | 520,42 |
| RAD-ALT12-C07-15 | 368236,56 | 8224106,90 | 520,41 |
| RAD-ALT12-C07-16 | 368236,21 | 8224095,37 | 520,41 |
| RAD-ALT12-C07-17 | 368236,22 | 8224084,13 | 520,40 |
| RAD-ALT12-C07-18 | 368236,16 | 8224072,95 | 520,44 |
| RAD-ALT12-C07-19 | 368235,34 | 8224061,85 | 520,44 |
| RAD-ALT12-C07-20 | 368235,79 | 8224050,70 | 520,42 |
| RAD-ALT12-C07-21 | 368235,42 | 8224038,72 | 520,40 |
| RAD-ALT12-C07-22 | 368235,24 | 8224026,62 | 520,42 |
| RAD-ALT12-C07-23 | 368234,68 | 8224015,00 | 520,42 |
| RAD-ALT12-C07-24 | 368233,90 | 8224003,85 | 520,42 |
| RAD-ALT12-C07-25 | 368232,63 | 8223991,86 | 520,41 |
| RAD-ALT12-C07-26 | 368232,12 | 8223979,79 | 520,39 |
| RAD-ALT12-C07-27 | 368232,61 | 8223969,01 | 520,41 |
| RAD-ALT12-C07-28 | 368233,21 | 8223958,16 | 520,39 |
| RAD-ALT12-C07-29 | 368234,91 | 8223947,57 | 520,42 |
| RAD-ALT12-C07-30 | 368236,28 | 8223936,60 | 520,42 |
| RAD-ALT12-C07-31 | 368236,69 | 8223926,04 | 520,39 |
| RAD-ALT12-C07-32 | 368237,74 | 8223916,05 | 520,38 |
| RAD-ALT12-C07-33 | 368238,77 | 8223905,63 | 520,38 |
| RAD-ALT12-C07-34 | 368239,79 | 8223895,94 | 520,38 |
| RAD-ALT12-C07-35 | 368241,42 | 8223884,36 | 520,41 |
| RAD-ALT12-C07-36 | 368242,31 | 8223874,14 | 520,39 |
| RAD-ALT12-C07-37 | 368242,29 | 8223863,60 | 520,42 |
| RAD-ALT12-C07-38 | 368241,18 | 8223855,11 | 520,40 |
| RAD-ALT12-C07-39 | 368239,53 | 8223841,56 | 520,42 |
| RAD-ALT12-C07-40 | 368247,59 | 8223829,75 | 520,42 |
| RAD-ALT12-C07-41 | 368249,09 | 8223818,80 | 520,41 |
| RAD-ALT12-C07-42 | 368251,03 | 8223806,93 | 520,41 |
| RAD-ALT12-C07-43 | 368251,67 | 8223796,18 | 520,40 |
| RAD-ALT12-C07-44 | 368252,96 | 8223784,74 | 520,41 |
| RAD-ALT12-C07-45 | 368252,01 | 8223773,84 | 520,42 |
| RAD-ALT12-C07-46 | 368251,55 | 8223763,38 | 520,41 |
| RAD-ALT12-C07-47 | 368254,53 | 8223752,82 | 520,38 |
| CURVA 08 | | | |
| RAD-ALT12-C08-01 | 368092,92 | 8223704,37 | 525,37 |
| RAD-ALT12-C08-02 | 368099,73 | 8223714,88 | 525,40 |
| RAD-ALT12-C08-03 | 368105,93 | 8223724,75 | 525,40 |
| RAD-ALT12-C08-04 | 368111,33 | 8223735,77 | 525,39 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT12-C08-05 | 368112,23 | 8223753,99 | 525,40 |
| RAD-ALT12-C08-06 | 368113,96 | 8223766,81 | 525,39 |
| RAD-ALT12-C08-07 | 368115,42 | 8223779,23 | 525,40 |
| RAD-ALT12-C08-08 | 368117,27 | 8223789,41 | 525,40 |
| RAD-ALT12-C08-09 | 368119,24 | 8223802,48 | 525,40 |
| RAD-ALT12-C08-10 | 368120,45 | 8223814,91 | 525,41 |
| RAD-ALT12-C08-11 | 368120,98 | 8223826,41 | 525,40 |
| RAD-ALT12-C08-12 | 368121,65 | 8223838,68 | 525,41 |
| RAD-ALT12-C08-13 | 368123,72 | 8223849,94 | 525,38 |
| RAD-ALT12-C08-14 | 368114,31 | 8223867,01 | 525,39 |
| RAD-ALT12-C08-15 | 368113,15 | 8223879,59 | 525,37 |
| RAD-ALT12-C08-16 | 368112,63 | 8223891,38 | 525,38 |
| RAD-ALT12-C08-17 | 368111,82 | 8223903,88 | 525,39 |
| RAD-ALT12-C08-18 | 368108,86 | 8223915,42 | 525,38 |
| RAD-ALT12-C08-19 | 368105,28 | 8223928,01 | 525,39 |
| RAD-ALT12-C08-20 | 368099,82 | 8223938,29 | 525,41 |
| RAD-ALT12-C08-21 | 368092,13 | 8223944,79 | 525,42 |
| RAD-ALT12-C08-22 | 368080,91 | 8223948,29 | 525,42 |
| RAD-ALT12-C08-23 | 368069,73 | 8223948,09 | 525,41 |
| RAD-ALT12-C08-24 | 368057,54 | 8223943,62 | 525,42 |
| RAD-ALT12-C08-25 | 368046,56 | 8223938,94 | 525,42 |
| RAD-ALT12-C08-26 | 368034,59 | 8223935,13 | 525,39 |
| RAD-ALT12-C08-27 | 368023,27 | 8223929,34 | 525,40 |
| RAD-ALT12-C08-28 | 368014,57 | 8223918,10 | 525,39 |
| RAD-ALT12-C08-29 | 368011,00 | 8223907,41 | 525,41 |
| RAD-ALT12-C08-30 | 368006,87 | 8223895,72 | 525,42 |
| RAD-ALT12-C08-31 | 368004,12 | 8223884,95 | 525,41 |
| RAD-ALT12-C08-32 | 367997,87 | 8223873,97 | 525,39 |
| RAD-ALT12-C08-33 | 367992,74 | 8223863,92 | 525,40 |
| RAD-ALT12-C08-34 | 367990,34 | 8223853,44 | 525,40 |
| RAD-ALT12-C08-35 | 367987,84 | 8223841,55 | 525,41 |
| RAD-ALT12-C08-36 | 367984,67 | 8223831,26 | 525,41 |
| RAD-ALT12-C08-37 | 367983,92 | 8223819,45 | 525,40 |
| RAD-ALT12-C08-38 | 367985,14 | 8223807,77 | 525,42 |
| RAD-ALT12-C08-39 | 367987,39 | 8223795,48 | 525,41 |
| RAD-ALT12-C08-40 | 367987,24 | 8223783,22 | 525,41 |
| RAD-ALT12-C08-41 | 367988,55 | 8223774,18 | 525,42 |
| CURVA 09 | | | |
| RAD-ALT12-C09-01 | 367986,15 | 8223750,52 | 525,43 |
| RAD-ALT12-C09-02 | 367984,95 | 8223738,32 | 525,40 |
| RAD-ALT12-C09-03 | 367985,74 | 8223725,27 | 525,40 |
| RAD-ALT12-C09-04 | 367984,76 | 8223713,35 | 525,41 |
| RAD-ALT12-C09-05 | 367983,93 | 8223699,30 | 525,40 |
| CURVA 10 | | | |
| RAD-ALT12-C10-01 | 367968,72 | 8224008,73 | 524,00 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT12-C10-02 | 367973,97 | 8224020,59 | 523,99 |
| RAD-ALT12-C10-03 | 367979,41 | 8224031,59 | 524,02 |
| RAD-ALT12-C10-04 | 367985,08 | 8224042,59 | 524,02 |
| RAD-ALT12-C10-05 | 367984,79 | 8224058,74 | 523,99 |
| RAD-ALT12-C10-06 | 367984,20 | 8224071,32 | 523,99 |
| RAD-ALT12-C10-07 | 367984,09 | 8224082,45 | 523,99 |
| RAD-ALT12-C10-08 | 367985,82 | 8224094,50 | 523,98 |
| RAD-ALT12-C10-09 | 367988,60 | 8224107,33 | 523,99 |
| RAD-ALT12-C10-10 | 367990,57 | 8224120,23 | 524,00 |
| RAD-ALT12-C10-11 | 367994,71 | 8224131,42 | 523,99 |
| RAD-ALT12-C10-12 | 367999,38 | 8224142,72 | 523,98 |
| RAD-ALT12-C10-13 | 368005,44 | 8224153,16 | 523,99 |
| RAD-ALT12-C10-14 | 368014,75 | 8224160,99 | 523,98 |
| RAD-ALT12-C10-15 | 368023,73 | 8224170,31 | 524,02 |
| RAD-ALT12-C10-16 | 368034,66 | 8224178,06 | 524,00 |
| RAD-ALT12-C10-17 | 368045,97 | 8224185,89 | 524,00 |
| RAD-ALT12-C10-18 | 368059,38 | 8224190,32 | 524,00 |
| RAD-ALT12-C10-19 | 368068,63 | 8224186,51 | 524,03 |
| RAD-ALT12-C10-20 | 367964,80 | 8223996,91 | 524,03 |
| RAD-ALT12-C10-21 | 367957,98 | 8223984,83 | 524,02 |
| RAD-ALT12-C10-22 | 367950,37 | 8223974,57 | 524,02 |
| RAD-ALT12-C10-23 | 367943,58 | 8223964,88 | 524,01 |
| RAD-ALT12-C10-24 | 367937,46 | 8223954,68 | 524,03 |
| RAD-ALT12-C10-25 | 367928,86 | 8223949,15 | 524,00 |
| RAD-ALT12-C10-26 | 367920,90 | 8223941,38 | 523,99 |
| RAD-ALT12-C10-27 | 367914,02 | 8223932,87 | 523,97 |
| RAD-ALT12-C10-28 | 367910,96 | 8223921,48 | 524,01 |
| RAD-ALT12-C10-29 | 367906,68 | 8223910,13 | 524,00 |
| RAD-ALT12-C10-30 | 367905,12 | 8223897,88 | 524,01 |
| RAD-ALT12-C10-31 | 367904,86 | 8223885,26 | 524,00 |
| RAD-ALT12-C10-32 | 367900,01 | 8223875,92 | 523,99 |
| RAD-ALT12-C10-33 | 367894,27 | 8223864,56 | 523,99 |
| RAD-ALT12-C10-34 | 367889,99 | 8223854,03 | 524,00 |
| RAD-ALT12-C10-35 | 367883,82 | 8223844,59 | 523,99 |
| RAD-ALT12-C10-36 | 367882,39 | 8223832,60 | 524,00 |
| RAD-ALT12-C10-37 | 367882,08 | 8223820,73 | 524,02 |
| RAD-ALT12-C10-38 | 367879,79 | 8223808,71 | 524,02 |
| RAD-ALT12-C10-39 | 367871,74 | 8223796,18 | 524,01 |
| RAD-ALT12-C10-40 | 367867,37 | 8223786,19 | 524,03 |
| RAD-ALT12-C10-41 | 367862,55 | 8223775,87 | 524,03 |
| RAD-ALT12-C10-42 | 367857,80 | 8223767,70 | 524,02 |
| RAD-ALT12-C10-43 | 367849,89 | 8223758,07 | 524,03 |
| RAD-ALT12-C10-44 | 367848,03 | 8223746,88 | 524,02 |
| RAD-ALT12-C10-45 | 367841,80 | 8223739,48 | 524,01 |
| RAD-ALT12-C10-46 | 367837,06 | 8223730,23 | 524,01 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT12-C10-47 | 367833,18 | 8223721,59 | 524,03 |
| RAD-ALT12-C10-48 | 367827,40 | 8223713,54 | 524,00 |
| RAD-ALT12-C10-49 | 367818,30 | 8223706,94 | 524,01 |
| RAD-ALT12-C10-50 | 367804,37 | 8223696,63 | 524,03 |
| RAD-ALT12-C10-51 | 367796,22 | 8223690,33 | 524,00 |
| RAD-ALT12-C10-52 | 367780,23 | 8223687,93 | 524,00 |
| CURVA 11 | | | |
| RAD-ALT12-C11-01 | 367894,03 | 8224029,92 | 522,99 |
| RAD-ALT12-C11-02 | 367900,91 | 8224041,59 | 523,00 |
| RAD-ALT12-C11-03 | 367905,46 | 8224052,82 | 523,02 |
| RAD-ALT12-C11-04 | 367909,90 | 8224064,91 | 523,03 |
| RAD-ALT12-C11-05 | 367913,90 | 8224077,55 | 523,03 |
| RAD-ALT12-C11-06 | 367919,51 | 8224090,44 | 523,03 |
| RAD-ALT12-C11-07 | 367916,25 | 8224104,60 | 522,99 |
| RAD-ALT12-C11-08 | 367921,47 | 8224114,81 | 523,01 |
| RAD-ALT12-C11-09 | 367918,85 | 8224128,07 | 522,99 |
| RAD-ALT12-C11-10 | 367925,17 | 8224139,20 | 522,98 |
| RAD-ALT12-C11-11 | 367929,15 | 8224150,42 | 523,00 |
| RAD-ALT12-C11-12 | 367931,91 | 8224159,45 | 523,02 |
| RAD-ALT12-C11-13 | 367932,25 | 8224172,43 | 522,97 |
| RAD-ALT12-C11-14 | 367936,64 | 8224184,90 | 522,99 |
| RAD-ALT12-C11-15 | 367942,65 | 8224195,62 | 522,98 |
| RAD-ALT12-C11-16 | 367948,62 | 8224205,14 | 522,99 |
| RAD-ALT12-C11-17 | 367954,57 | 8224215,62 | 522,98 |
| RAD-ALT12-C11-18 | 367962,30 | 8224223,93 | 523,02 |
| RAD-ALT12-C11-19 | 367968,91 | 8224233,06 | 522,98 |
| RAD-ALT12-C11-20 | 367975,32 | 8224242,74 | 523,01 |
| RAD-ALT12-C11-21 | 367986,32 | 8224252,03 | 523,00 |
| RAD-ALT12-C11-22 | 367890,81 | 8224018,90 | 523,04 |
| RAD-ALT12-C11-23 | 367881,25 | 8224007,04 | 522,98 |
| RAD-ALT12-C11-24 | 367874,76 | 8223998,64 | 522,98 |
| RAD-ALT12-C11-25 | 367869,82 | 8223985,21 | 522,99 |
| RAD-ALT12-C11-26 | 367866,42 | 8223973,85 | 522,99 |
| RAD-ALT12-C11-27 | 367861,31 | 8223963,00 | 523,00 |
| RAD-ALT12-C11-28 | 367857,85 | 8223949,22 | 522,98 |
| RAD-ALT12-C11-29 | 367853,94 | 8223937,52 | 522,99 |
| RAD-ALT12-C11-30 | 367851,61 | 8223928,05 | 522,99 |
| RAD-ALT12-C11-31 | 367850,26 | 8223916,57 | 522,98 |
| RAD-ALT12-C11-32 | 367846,36 | 8223906,31 | 522,97 |
| RAD-ALT12-C11-33 | 367842,35 | 8223896,86 | 523,00 |
| RAD-ALT12-C11-34 | 367837,66 | 8223886,38 | 523,00 |
| RAD-ALT12-C11-35 | 367835,21 | 8223875,19 | 523,00 |
| RAD-ALT12-C11-36 | 367830,86 | 8223865,79 | 523,01 |
| RAD-ALT12-C11-37 | 367825,47 | 8223856,48 | 523,02 |
| RAD-ALT12-C11-38 | 367819,80 | 8223845,79 | 523,01 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT12-C11-39 | 367816,95 | 8223834,59 | 523,03 |
| RAD-ALT12-C11-40 | 367813,31 | 8223825,11 | 523,02 |
| RAD-ALT12-C11-41 | 367809,91 | 8223814,72 | 523,04 |
| RAD-ALT12-C11-42 | 367805,58 | 8223804,55 | 523,03 |
| RAD-ALT12-C11-43 | 367801,26 | 8223793,87 | 523,03 |
| RAD-ALT12-C11-44 | 367797,79 | 8223785,84 | 523,03 |
| RAD-ALT12-C11-45 | 367790,64 | 8223777,24 | 522,98 |
| RAD-ALT12-C11-46 | 367780,81 | 8223768,66 | 523,02 |
| RAD-ALT12-C11-47 | 367765,35 | 8223761,13 | 522,98 |
| RAD-ALT12-C11-48 | 367755,09 | 8223750,71 | 522,98 |
| RAD-ALT12-C11-49 | 367745,61 | 8223746,30 | 523,01 |
| RAD-ALT12-C11-50 | 367729,58 | 8223752,53 | 522,99 |
| RAD-ALT12-C11-51 | 367719,44 | 8223757,03 | 522,98 |
| RAD-ALT12-C11-52 | 367710,63 | 8223759,78 | 523,01 |
| RAD-ALT12-C11-53 | 367700,44 | 8223773,41 | 522,99 |
| RAD-ALT12-C11-54 | 367689,45 | 8223778,31 | 523,04 |
| RAD-ALT12-C11-55 | 367678,57 | 8223783,66 | 523,04 |
| RAD-ALT12-C11-56 | 367671,84 | 8223789,23 | 523,03 |
| CURVA 12 | | | |
| RAD-ALT12-C12-01 | 367838,45 | 8224044,01 | 522,04 |
| RAD-ALT12-C12-02 | 367844,18 | 8224056,05 | 522,03 |
| RAD-ALT12-C12-03 | 367851,57 | 8224066,07 | 522,04 |
| RAD-ALT12-C12-04 | 367853,06 | 8224083,46 | 522,00 |
| RAD-ALT12-C12-05 | 367855,72 | 8224097,46 | 521,97 |
| RAD-ALT12-C12-06 | 367860,95 | 8224108,96 | 521,98 |
| RAD-ALT12-C12-07 | 367867,50 | 8224120,78 | 521,98 |
| RAD-ALT12-C12-08 | 367871,30 | 8224133,38 | 521,98 |
| RAD-ALT12-C12-09 | 367875,07 | 8224143,53 | 522,03 |
| RAD-ALT12-C12-10 | 367879,15 | 8224153,79 | 522,01 |
| RAD-ALT12-C12-11 | 367881,34 | 8224167,53 | 522,00 |
| RAD-ALT12-C12-12 | 367885,50 | 8224177,92 | 522,03 |
| RAD-ALT12-C12-13 | 367887,15 | 8224190,37 | 522,01 |
| RAD-ALT12-C12-14 | 367888,27 | 8224204,39 | 521,98 |
| RAD-ALT12-C12-15 | 367893,89 | 8224215,21 | 522,03 |
| RAD-ALT12-C12-16 | 367900,55 | 8224224,97 | 522,01 |
| RAD-ALT12-C12-17 | 367902,54 | 8224236,64 | 522,01 |
| RAD-ALT12-C12-18 | 367831,22 | 8224032,60 | 521,98 |
| RAD-ALT12-C12-19 | 367827,76 | 8224018,86 | 521,97 |
| RAD-ALT12-C12-20 | 367820,83 | 8224006,88 | 521,97 |
| RAD-ALT12-C12-21 | 367818,85 | 8223989,41 | 521,98 |
| RAD-ALT12-C12-22 | 367818,23 | 8223973,00 | 521,98 |
| RAD-ALT12-C12-23 | 367814,75 | 8223961,09 | 521,98 |
| RAD-ALT12-C12-24 | 367812,78 | 8223951,26 | 521,98 |
| RAD-ALT12-C12-25 | 367809,77 | 8223939,96 | 522,03 |
| RAD-ALT12-C12-26 | 367806,37 | 8223928,45 | 521,99 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT12-C12-27 | 367803,23 | 8223918,14 | 522,01 |
| RAD-ALT12-C12-28 | 367800,81 | 8223908,34 | 522,02 |
| RAD-ALT12-C12-29 | 367795,71 | 8223898,22 | 522,01 |
| RAD-ALT12-C12-30 | 367788,96 | 8223889,64 | 522,02 |
| RAD-ALT12-C12-31 | 367782,50 | 8223880,23 | 522,01 |
| RAD-ALT12-C12-32 | 367773,33 | 8223873,31 | 522,03 |
| RAD-ALT12-C12-33 | 367764,06 | 8223866,34 | 521,98 |
| RAD-ALT12-C12-34 | 367755,02 | 8223859,18 | 521,98 |
| RAD-ALT12-C12-35 | 367749,08 | 8223850,76 | 521,98 |
| RAD-ALT12-C12-36 | 367739,41 | 8223843,12 | 521,99 |
| RAD-ALT12-C12-37 | 367732,59 | 8223835,82 | 521,97 |
| RAD-ALT12-C12-38 | 367716,12 | 8223821,55 | 521,99 |
| RAD-ALT12-C12-39 | 367703,66 | 8223823,22 | 522,02 |
| RAD-ALT12-C12-40 | 367690,61 | 8223827,18 | 522,03 |
| RAD-ALT12-C12-41 | 367679,97 | 8223829,81 | 522,00 |
| RAD-ALT12-C12-42 | 367669,14 | 8223830,28 | 522,03 |
| RAD-ALT12-C12-43 | 367643,61 | 8223833,77 | 522,02 |
| RAD-ALT12-C12-44 | 367662,19 | 8223835,81 | 522,02 |
| RAD-ALT12-C12-45 | 367631,87 | 8223838,12 | 522,03 |
| RAD-ALT12-C12-46 | 367619,42 | 8223845,32 | 522,03 |
| RAD-ALT12-C12-47 | 367603,76 | 8223849,85 | 521,99 |
| RAD-ALT12-C12-48 | 367593,34 | 8223853,94 | 522,03 |
| RAD-ALT12-C12-49 | 367580,14 | 8223858,68 | 522,03 |
| RAD-ALT12-C12-50 | 367570,82 | 8223867,34 | 522,01 |
| RAD-ALT12-C12-51 | 367557,29 | 8223874,34 | 522,02 |
| CURVA 13 | | | |
| RAD-ALT12-C13-01 | 367801,08 | 8224080,96 | 520,80 |
| RAD-ALT12-C13-02 | 367803,51 | 8224091,72 | 520,81 |
| RAD-ALT12-C13-03 | 367808,67 | 8224101,96 | 520,81 |
| RAD-ALT12-C13-04 | 367812,73 | 8224111,67 | 520,80 |
| RAD-ALT12-C13-05 | 367817,31 | 8224122,77 | 520,78 |
| RAD-ALT12-C13-06 | 367824,76 | 8224134,53 | 520,81 |
| RAD-ALT12-C13-07 | 367830,84 | 8224144,02 | 520,82 |
| RAD-ALT12-C13-08 | 367834,77 | 8224155,27 | 520,82 |
| RAD-ALT12-C13-09 | 367838,53 | 8224166,15 | 520,81 |
| RAD-ALT12-C13-10 | 367841,92 | 8224177,14 | 520,82 |
| RAD-ALT12-C13-11 | 367843,56 | 8224189,63 | 520,78 |
| RAD-ALT12-C13-12 | 367794,18 | 8224071,32 | 520,78 |
| RAD-ALT12-C13-13 | 367788,80 | 8224058,88 | 520,83 |
| RAD-ALT12-C13-14 | 367790,78 | 8224045,99 | 520,84 |
| RAD-ALT12-C13-15 | 367784,62 | 8224031,61 | 520,81 |
| RAD-ALT12-C13-16 | 367779,52 | 8224019,81 | 520,79 |
| RAD-ALT12-C13-17 | 367779,20 | 8224007,69 | 520,80 |
| RAD-ALT12-C13-18 | 367776,59 | 8223997,71 | 520,80 |
| RAD-ALT12-C13-19 | 367771,63 | 8223987,10 | 520,78 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT12-C13-20 | 367765,95 | 8223975,91 | 520,78 |
| RAD-ALT12-C13-21 | 367760,09 | 8223965,14 | 520,78 |
| RAD-ALT12-C13-22 | 367753,74 | 8223954,57 | 520,78 |
| RAD-ALT12-C13-23 | 367751,78 | 8223938,73 | 520,78 |
| RAD-ALT12-C13-24 | 367741,83 | 8223930,64 | 520,77 |
| RAD-ALT12-C13-25 | 367730,96 | 8223922,01 | 520,78 |
| RAD-ALT12-C13-26 | 367725,30 | 8223912,03 | 520,80 |
| RAD-ALT12-C13-27 | 367717,62 | 8223904,07 | 520,81 |
| RAD-ALT12-C13-28 | 367709,40 | 8223898,02 | 520,80 |
| RAD-ALT12-C13-29 | 367700,51 | 8223890,08 | 520,80 |
| RAD-ALT12-C13-30 | 367689,47 | 8223886,46 | 520,79 |
| RAD-ALT12-C13-31 | 367679,84 | 8223881,01 | 520,77 |
| RAD-ALT12-C13-32 | 367671,91 | 8223873,52 | 520,83 |
| RAD-ALT12-C13-33 | 367656,59 | 8223874,19 | 520,81 |
| RAD-ALT12-C13-34 | 367642,01 | 8223876,36 | 520,80 |
| RAD-ALT12-C13-35 | 367630,22 | 8223877,64 | 520,79 |
| RAD-ALT12-C13-36 | 367617,50 | 8223880,47 | 520,81 |
| RAD-ALT12-C13-37 | 367606,54 | 8223883,07 | 520,80 |
| RAD-ALT12-C13-38 | 367593,91 | 8223887,81 | 520,83 |
| RAD-ALT12-C13-39 | 367583,10 | 8223892,26 | 520,80 |
| RAD-ALT12-C13-40 | 367572,33 | 8223898,24 | 520,81 |
| RAD-ALT12-C13-01 | 368184,67 | 8223510,51 | 519,04 |
| RAD-ALT12-C13-02 | 368182,18 | 8223500,80 | 518,98 |
| RAD-ALT12-C13-03 | 368176,42 | 8223489,77 | 518,97 |
| RAD-ALT12-C13-04 | 368171,80 | 8223480,42 | 518,97 |
| RAD-ALT12-C13-05 | 368164,50 | 8223468,46 | 518,97 |
| RAD-ALT12-C13-06 | 368152,84 | 8223458,80 | 519,00 |
| RAD-ALT12-C13-07 | 368146,56 | 8223449,79 | 518,98 |
| RAD-ALT12-C13-08 | 368139,47 | 8223442,17 | 518,98 |
| RAD-ALT12-C13-09 | 368134,63 | 8223433,14 | 518,98 |
| RAD-ALT12-C13-10 | 368130,22 | 8223421,39 | 518,97 |
| RAD-ALT12-C13-11 | 368121,75 | 8223412,00 | 519,00 |
| RAD-ALT12-C13-12 | 368119,38 | 8223402,89 | 519,03 |
| RAD-ALT12-C13-13 | 368117,64 | 8223392,90 | 518,99 |
| RAD-ALT12-C13-14 | 368113,33 | 8223382,21 | 518,98 |
| RAD-ALT12-C13-15 | 368111,23 | 8223373,81 | 518,99 |
| RAD-ALT12-C13-16 | 368103,72 | 8223364,91 | 519,04 |
| RAD-ALT12-C13-17 | 368101,57 | 8223353,05 | 518,98 |
| RAD-ALT12-C13-18 | 368096,96 | 8223345,85 | 519,03 |
| RAD-ALT12-C13-19 | 368093,10 | 8223336,06 | 519,02 |
| RAD-ALT12-C13-20 | 368093,02 | 8223325,53 | 518,97 |
| RAD-ALT12-C13-21 | 368090,69 | 8223316,93 | 518,95 |
| RAD-ALT12-C13-22 | 368089,36 | 8223309,50 | 519,00 |
| RAD-ALT12-C13-23 | 368089,92 | 8223298,14 | 518,97 |
| RAD-ALT12-C13-24 | 368086,30 | 8223289,52 | 519,04 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT12-C13-25 | 368086,06 | 8223277,40 | 519,04 |
| RAD-ALT12-C13-26 | 368084,23 | 8223267,13 | 519,04 |
| RAD-ALT12-C13-27 | 368087,54 | 8223254,09 | 518,98 |
| RAD-ALT12-C13-28 | 368085,72 | 8223243,54 | 519,03 |
| RAD-ALT12-C13-29 | 368087,52 | 8223231,94 | 518,98 |
| RAD-ALT12-C13-30 | 368086,87 | 8223223,54 | 519,03 |
| RAD-ALT12-C13-31 | 368089,78 | 8223211,10 | 519,01 |
| RAD-ALT12-C13-32 | 368089,24 | 8223200,35 | 518,99 |
| RAD-ALT12-C13-33 | 368089,76 | 8223189,66 | 519,01 |
| RAD-ALT12-C13-34 | 368089,65 | 8223178,29 | 519,02 |
| CURVA 14 | | | |
| RAD-ALT12-C14-01 | 368183,49 | 8223444,34 | 517,82 |
| RAD-ALT12-C14-02 | 368177,60 | 8223434,81 | 517,78 |
| RAD-ALT12-C14-03 | 368168,71 | 8223425,97 | 517,82 |
| RAD-ALT12-C14-04 | 368161,25 | 8223417,56 | 517,81 |
| RAD-ALT12-C14-05 | 368155,63 | 8223407,94 | 517,82 |
| RAD-ALT12-C14-06 | 368152,77 | 8223397,46 | 517,78 |
| RAD-ALT12-C14-07 | 368146,07 | 8223383,10 | 517,82 |
| RAD-ALT12-C14-08 | 368142,31 | 8223374,96 | 517,77 |
| RAD-ALT12-C14-09 | 368140,13 | 8223366,69 | 517,81 |
| RAD-ALT12-C14-10 | 368133,11 | 8223356,72 | 517,81 |
| RAD-ALT12-C14-11 | 368129,55 | 8223347,75 | 517,82 |
| RAD-ALT12-C14-12 | 368125,50 | 8223338,35 | 517,79 |
| RAD-ALT12-C14-13 | 368122,11 | 8223328,63 | 517,83 |
| RAD-ALT12-C14-14 | 368119,36 | 8223320,05 | 517,82 |
| RAD-ALT12-C14-15 | 368114,08 | 8223308,34 | 517,81 |
| RAD-ALT12-C14-16 | 368113,44 | 8223298,18 | 517,82 |
| RAD-ALT12-C14-17 | 368113,75 | 8223286,45 | 517,82 |
| RAD-ALT12-C14-18 | 368112,92 | 8223277,35 | 517,80 |
| RAD-ALT12-C14-19 | 368115,00 | 8223264,58 | 517,80 |
| RAD-ALT12-C14-20 | 368109,09 | 8223258,23 | 517,83 |
| RAD-ALT12-C14-21 | 368112,76 | 8223245,27 | 517,81 |
| RAD-ALT12-C14-22 | 368114,47 | 8223234,49 | 517,82 |
| RAD-ALT12-C14-23 | 368115,33 | 8223223,52 | 517,79 |
| RAD-ALT12-C14-24 | 368115,81 | 8223212,37 | 517,81 |
| RAD-ALT12-C14-25 | 368116,85 | 8223202,00 | 517,80 |
| RAD-ALT12-C14-26 | 368116,09 | 8223192,15 | 517,79 |
| RAD-ALT12-C14-27 | 368118,71 | 8223180,48 | 517,81 |
| RAD-ALT12-C14-28 | 368116,60 | 8223170,87 | 517,80 |
| CURVA 15 | | | |
| RAD-ALT12-C15-01 | 368150,64 | 8223161,96 | 516,84 |
| RAD-ALT12-C15-02 | 368152,30 | 8223171,16 | 516,78 |
| RAD-ALT12-C15-03 | 368148,90 | 8223182,71 | 516,77 |
| RAD-ALT12-C15-04 | 368145,95 | 8223194,89 | 516,81 |
| RAD-ALT12-C15-05 | 368145,00 | 8223205,86 | 516,78 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT12-C15-06 | 368141,64 | 8223216,05 | 516,79 |
| RAD-ALT12-C15-07 | 368139,96 | 8223225,61 | 516,78 |
| RAD-ALT12-C15-08 | 368139,47 | 8223237,37 | 516,80 |
| RAD-ALT12-C15-09 | 368138,95 | 8223249,29 | 516,78 |
| RAD-ALT12-C15-10 | 368136,44 | 8223261,22 | 516,81 |
| RAD-ALT12-C15-11 | 368136,34 | 8223272,30 | 516,80 |
| RAD-ALT12-C15-12 | 368138,06 | 8223282,02 | 516,79 |
| RAD-ALT12-C15-13 | 368140,32 | 8223291,63 | 516,78 |
| RAD-ALT12-C15-14 | 368140,49 | 8223302,21 | 516,78 |
| RAD-ALT12-C15-15 | 368141,07 | 8223311,95 | 516,82 |
| RAD-ALT12-C15-16 | 368145,43 | 8223321,49 | 516,80 |
| RAD-ALT12-C15-17 | 368149,22 | 8223329,84 | 516,80 |
| RAD-ALT12-C15-18 | 368156,24 | 8223339,15 | 516,79 |
| RAD-ALT12-C15-19 | 368158,02 | 8223351,50 | 516,82 |
| RAD-ALT12-C15-20 | 368162,57 | 8223363,34 | 516,81 |
| RAD-ALT12-C15-21 | 368167,05 | 8223373,15 | 516,79 |
| RAD-ALT12-C15-22 | 368175,42 | 8223381,22 | 516,77 |
| CURVA 16 | | | |
| RAD-ALT12-C16-01 | 368056,11 | 8223185,34 | 520,41 |
| RAD-ALT12-C16-02 | 368054,67 | 8223198,72 | 520,40 |
| RAD-ALT12-C16-03 | 368054,60 | 8223208,18 | 520,41 |
| RAD-ALT12-C16-04 | 368054,64 | 8223218,33 | 520,39 |
| RAD-ALT12-C16-05 | 368052,98 | 8223229,89 | 520,42 |
| RAD-ALT12-C16-06 | 368056,26 | 8223242,10 | 520,40 |
| RAD-ALT12-C16-07 | 368053,52 | 8223255,27 | 520,38 |
| RAD-ALT12-C16-08 | 368052,74 | 8223266,32 | 520,41 |
| RAD-ALT12-C16-09 | 368054,11 | 8223277,63 | 520,40 |
| RAD-ALT12-C16-10 | 368054,19 | 8223295,66 | 520,39 |
| RAD-ALT12-C16-11 | 368052,69 | 8223311,28 | 520,38 |
| RAD-ALT12-C16-12 | 368058,66 | 8223322,38 | 520,39 |
| RAD-ALT12-C16-13 | 368058,17 | 8223333,35 | 520,39 |
| RAD-ALT12-C16-14 | 368059,82 | 8223347,22 | 520,41 |
| RAD-ALT12-C16-15 | 368065,74 | 8223357,53 | 520,39 |
| RAD-ALT12-C16-16 | 368067,86 | 8223370,37 | 520,39 |
| RAD-ALT12-C16-17 | 368070,82 | 8223378,86 | 520,38 |
| RAD-ALT12-C16-18 | 368074,99 | 8223390,23 | 520,38 |
| RAD-ALT12-C16-19 | 368077,62 | 8223398,31 | 520,39 |
| RAD-ALT12-C16-20 | 368082,41 | 8223406,07 | 520,42 |
| RAD-ALT12-C16-21 | 368088,01 | 8223415,19 | 520,41 |
| RAD-ALT12-C16-22 | 368094,76 | 8223422,59 | 520,40 |
| RAD-ALT12-C16-23 | 368097,36 | 8223432,99 | 520,41 |
| RAD-ALT12-C16-24 | 368098,94 | 8223428,78 | 520,38 |
| RAD-ALT12-C16-25 | 368101,43 | 8223439,50 | 520,41 |
| RAD-ALT12-C16-26 | 368107,16 | 8223446,71 | 520,43 |
| RAD-ALT12-C16-27 | 368114,39 | 8223453,71 | 520,39 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT12-C16-28 | 368117,13 | 8223464,33 | 520,40 |
| RAD-ALT12-C16-29 | 368123,35 | 8223472,58 | 520,40 |
| RAD-ALT12-C16-30 | 368131,94 | 8223478,45 | 520,38 |
| RAD-ALT12-C16-31 | 368132,95 | 8223492,73 | 520,39 |
| RAD-ALT12-C16-32 | 368136,65 | 8223503,20 | 520,38 |
| CURVA 17 | | | |
| RAD-ALT12-C17-01 | 368093,28 | 8223478,79 | 521,79 |
| RAD-ALT12-C17-02 | 368088,13 | 8223465,01 | 521,80 |
| RAD-ALT12-C17-03 | 368078,11 | 8223458,65 | 521,80 |
| RAD-ALT12-C17-04 | 368073,20 | 8223448,61 | 521,81 |
| RAD-ALT12-C17-05 | 368063,91 | 8223440,00 | 521,78 |
| RAD-ALT12-C17-06 | 368056,95 | 8223435,50 | 521,81 |
| RAD-ALT12-C17-07 | 368051,33 | 8223426,40 | 521,83 |
| RAD-ALT12-C17-08 | 368047,56 | 8223415,61 | 521,82 |
| RAD-ALT12-C17-09 | 368042,50 | 8223408,42 | 521,80 |
| RAD-ALT12-C17-10 | 368039,09 | 8223399,57 | 521,78 |
| RAD-ALT12-C17-11 | 368036,39 | 8223390,66 | 521,81 |
| RAD-ALT12-C17-12 | 368032,30 | 8223381,09 | 521,78 |
| RAD-ALT12-C17-13 | 368028,75 | 8223370,72 | 521,79 |
| RAD-ALT12-C17-14 | 368025,55 | 8223361,76 | 521,78 |
| RAD-ALT12-C17-15 | 368020,21 | 8223350,85 | 521,78 |
| RAD-ALT12-C17-16 | 368016,82 | 8223339,79 | 521,83 |
| RAD-ALT12-C17-17 | 368018,15 | 8223329,80 | 521,78 |
| RAD-ALT12-C17-18 | 368014,50 | 8223319,75 | 521,79 |
| RAD-ALT12-C17-19 | 368014,14 | 8223307,23 | 521,78 |
| RAD-ALT12-C17-20 | 368015,40 | 8223298,71 | 521,81 |
| RAD-ALT12-C17-21 | 368014,64 | 8223290,17 | 521,78 |
| RAD-ALT12-C17-22 | 368015,26 | 8223279,15 | 521,83 |
| RAD-ALT12-C17-23 | 368016,24 | 8223267,78 | 521,83 |
| RAD-ALT12-C17-24 | 368016,91 | 8223257,92 | 521,82 |
| RAD-ALT12-C17-25 | 368015,08 | 8223247,74 | 521,79 |
| RAD-ALT12-C17-26 | 368016,88 | 8223236,54 | 521,81 |
| RAD-ALT12-C17-27 | 368018,69 | 8223224,97 | 521,80 |
| RAD-ALT12-C17-28 | 368016,96 | 8223215,08 | 521,80 |
| RAD-ALT12-C17-29 | 368017,47 | 8223199,99 | 521,83 |
| CURVA 18 | | | |
| RAD-ALT12-C18-01 | 367971,73 | 8223326,31 | 523,20 |
| RAD-ALT12-C18-02 | 367976,64 | 8223315,45 | 523,19 |
| RAD-ALT12-C18-03 | 367970,33 | 8223337,44 | 523,21 |
| RAD-ALT12-C18-04 | 367973,82 | 8223348,89 | 523,20 |
| RAD-ALT12-C18-05 | 367979,25 | 8223362,14 | 523,19 |
| RAD-ALT12-C18-06 | 367982,62 | 8223374,88 | 523,18 |
| RAD-ALT12-C18-07 | 367983,47 | 8223389,52 | 523,21 |
| RAD-ALT12-C18-08 | 367987,10 | 8223399,78 | 523,17 |
| RAD-ALT12-C18-09 | 367991,82 | 8223407,84 | 523,21 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT12-C18-10 | 367995,04 | 8223416,07 | 523,18 |
| RAD-ALT12-C18-11 | 367971,60 | 8223306,18 | 523,21 |
| RAD-ALT12-C18-12 | 367970,76 | 8223295,67 | 523,21 |
| RAD-ALT12-C18-13 | 367972,28 | 8223280,60 | 523,19 |
| RAD-ALT12-C18-14 | 367973,71 | 8223268,66 | 523,21 |
| RAD-ALT12-C18-15 | 367975,00 | 8223257,49 | 523,19 |
| RAD-ALT12-C18-16 | 367975,14 | 8223246,78 | 523,20 |
| RAD-ALT12-C18-17 | 367975,76 | 8223236,09 | 523,21 |
| RAD-ALT12-C18-18 | 367975,26 | 8223223,57 | 523,21 |
| RAD-ALT12-C18-19 | 367977,26 | 8223211,94 | 523,20 |
| CURVA 19 | | | |
| RAD-ALT12-C19-01 | 367931,76 | 8223386,86 | 524,40 |
| RAD-ALT12-C19-02 | 367935,79 | 8223373,96 | 524,39 |
| RAD-ALT12-C19-03 | 367935,50 | 8223363,21 | 524,38 |
| RAD-ALT12-C19-04 | 367932,09 | 8223349,79 | 524,43 |
| RAD-ALT12-C19-05 | 367930,78 | 8223339,90 | 524,38 |
| RAD-ALT12-C19-06 | 367930,43 | 8223330,14 | 524,42 |
| RAD-ALT12-C19-07 | 367932,85 | 8223320,26 | 524,43 |
| RAD-ALT12-C19-08 | 367932,55 | 8223310,12 | 524,38 |
| RAD-ALT12-C19-09 | 367933,06 | 8223299,90 | 524,40 |
| RAD-ALT12-C19-10 | 367935,67 | 8223290,35 | 524,38 |
| RAD-ALT12-C19-11 | 367933,59 | 8223280,14 | 524,42 |
| RAD-ALT12-C19-12 | 367936,16 | 8223274,33 | 524,38 |
| RAD-ALT12-C19-13 | 367937,23 | 8223266,43 | 524,39 |
| RAD-ALT12-C19-14 | 367934,53 | 8223250,92 | 524,40 |
| RAD-ALT12-C19-15 | 367937,46 | 8223242,10 | 524,40 |
| RAD-ALT12-C19-16 | 367938,32 | 8223227,76 | 524,40 |
| CURVA 20 | | | |
| RAD-ALT12-C20-01 | 368103,97 | 8223539,76 | 527,22 |
| RAD-ALT12-C20-02 | 368098,95 | 8223529,09 | 527,20 |
| RAD-ALT12-C20-03 | 368098,94 | 8223512,22 | 527,22 |
| RAD-ALT12-C20-04 | 368110,71 | 8223549,35 | 527,20 |
| RAD-ALT12-C20-05 | 368116,63 | 8223558,39 | 527,22 |
| RAD-ALT12-C20-06 | 368121,25 | 8223567,50 | 527,20 |
| RAD-ALT12-C20-07 | 368131,49 | 8223571,54 | 527,23 |
| RAD-ALT12-C20-08 | 368132,78 | 8223584,78 | 527,24 |
| RAD-ALT12-C20-09 | 368136,77 | 8223595,87 | 527,19 |
| RAD-ALT12-C20-10 | 368137,79 | 8223606,62 | 527,19 |
| RAD-ALT12-C20-11 | 368139,87 | 8223617,01 | 527,21 |
| RAD-ALT12-C20-12 | 368138,95 | 8223629,29 | 527,21 |
| RAD-ALT12-C20-13 | 368144,37 | 8223639,49 | 527,19 |
| RAD-ALT12-C20-14 | 368145,73 | 8223651,38 | 527,19 |
| RAD-ALT12-C20-15 | 368150,40 | 8223665,26 | 527,20 |
| CURVA 21 | | | |
| RAD-ALT12-C21-01 | 368112,65 | 8223683,17 | 528,79 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT12-C21-02 | 368108,29 | 8223672,62 | 528,78 |
| RAD-ALT12-C21-03 | 368104,33 | 8223661,57 | 528,81 |
| RAD-ALT12-C21-04 | 368099,54 | 8223651,29 | 528,78 |
| RAD-ALT12-C21-05 | 368095,13 | 8223642,19 | 528,80 |
| RAD-ALT12-C21-06 | 368090,99 | 8223631,59 | 528,79 |
| RAD-ALT12-C21-07 | 368084,50 | 8223621,14 | 528,78 |
| RAD-ALT12-C21-08 | 368078,12 | 8223611,82 | 528,78 |
| RAD-ALT12-C21-09 | 368072,54 | 8223603,18 | 528,78 |
| RAD-ALT12-C21-10 | 368065,73 | 8223593,99 | 528,77 |
| RAD-ALT12-C21-11 | 368060,84 | 8223583,04 | 528,79 |
| RAD-ALT12-C21-12 | 368053,50 | 8223575,57 | 528,81 |
| RAD-ALT12-C21-13 | 368050,74 | 8223564,04 | 528,80 |
| RAD-ALT12-C21-14 | 368046,29 | 8223554,34 | 528,81 |
| RAD-ALT12-C21-15 | 368041,96 | 8223543,42 | 528,83 |
| RAD-ALT12-C21-16 | 368038,83 | 8223533,05 | 528,81 |
| RAD-ALT12-C21-17 | 368034,88 | 8223521,77 | 528,83 |
| RAD-ALT12-C21-18 | 368030,05 | 8223511,91 | 528,84 |
| RAD-ALT12-C21-19 | 368026,11 | 8223501,91 | 528,83 |
| RAD-ALT12-C21-20 | 368021,31 | 8223493,10 | 528,82 |
| RAD-ALT12-C21-21 | 368010,70 | 8223486,32 | 528,81 |

Locação de Terraços - RAD-ALT-13

| NOME | ESTE | NORTE | ALTITUDE |
|------------------|-----------|------------|----------|
| CURVA 01 | | | |
| RAD-ALT13-C01-01 | 368009,51 | 8223106,14 | 550,04 |
| RAD-ALT13-C01-02 | 368006,78 | 8223116,98 | 549,97 |
| RAD-ALT13-C01-03 | 368005,96 | 8223127,60 | 550,00 |
| RAD-ALT13-C01-04 | 368002,22 | 8223137,11 | 550,04 |
| RAD-ALT13-C01-05 | 368000,89 | 8223147,50 | 550,02 |
| RAD-ALT13-C01-06 | 368000,25 | 8223157,30 | 550,00 |
| RAD-ALT13-C01-07 | 368000,94 | 8223167,96 | 549,99 |
| RAD-ALT13-C01-08 | 367998,16 | 8223179,10 | 550,01 |
| CURVA 02 | | | |
| RAD-ALT13-C02-01 | 367964,09 | 8223190,01 | 551,22 |
| RAD-ALT13-C02-02 | 367961,24 | 8223180,02 | 551,20 |
| RAD-ALT13-C02-03 | 367962,72 | 8223168,00 | 551,19 |
| RAD-ALT13-C02-04 | 367967,86 | 8223156,14 | 551,22 |
| RAD-ALT13-C02-05 | 367970,58 | 8223142,16 | 551,21 |
| CURVA 03 | | | |
| RAD-ALT13-C03-01 | 368126,80 | 8223143,90 | 544,90 |
| RAD-ALT13-C03-02 | 368124,91 | 8223132,27 | 544,88 |
| RAD-ALT13-C03-03 | 368122,97 | 8223121,83 | 544,90 |
| RAD-ALT13-C03-04 | 368121,07 | 8223111,14 | 544,89 |
| RAD-ALT13-C03-05 | 368119,01 | 8223100,53 | 544,89 |
| RAD-ALT13-C03-06 | 368115,32 | 8223089,01 | 544,88 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT13-C03-07 | 368113,38 | 8223078,21 | 544,89 |
| RAD-ALT13-C03-08 | 368112,17 | 8223068,27 | 544,92 |
| CURVA 04 | | | |
| RAD-ALT13-C04-01 | 368157,20 | 8223063,66 | 544,44 |
| RAD-ALT13-C04-02 | 368155,62 | 8223075,61 | 544,42 |
| RAD-ALT13-C04-03 | 368154,05 | 8223086,25 | 544,41 |
| RAD-ALT13-C04-04 | 368152,40 | 8223096,53 | 544,39 |
| RAD-ALT13-C04-05 | 368153,85 | 8223107,22 | 544,37 |
| RAD-ALT13-C04-06 | 368156,19 | 8223118,63 | 544,40 |
| RAD-ALT13-C04-07 | 368160,23 | 8223128,38 | 544,39 |
| RAD-ALT13-C04-08 | 368162,76 | 8223138,94 | 544,40 |

Locação de Terraços - RAD-ALT-14

| NOME | ESTE | NORTE | ALTITUDE |
|------------------|-----------|------------|----------|
| CURVA 01 | | | |
| RAD-ALT14-C01-01 | 367938,50 | 8222596,54 | 528,29 |
| RAD-ALT14-C01-02 | 367946,94 | 8222572,23 | 528,31 |
| RAD-ALT14-C01-03 | 367952,61 | 8222562,89 | 528,31 |
| RAD-ALT14-C01-04 | 367952,72 | 8222549,65 | 528,32 |
| RAD-ALT14-C01-05 | 367958,06 | 8222538,46 | 528,31 |
| RAD-ALT14-C01-06 | 367960,56 | 8222528,22 | 528,31 |
| RAD-ALT14-C01-07 | 367964,46 | 8222518,24 | 528,31 |
| RAD-ALT14-C01-08 | 367969,47 | 8222507,31 | 528,32 |
| RAD-ALT14-C01-09 | 367969,43 | 8222490,13 | 528,32 |
| RAD-ALT14-C01-10 | 367972,19 | 8222477,59 | 528,32 |
| RAD-ALT14-C01-11 | 367974,40 | 8222455,58 | 528,27 |
| RAD-ALT14-C01-12 | 367974,91 | 8222465,21 | 528,31 |
| CURVA 02 | | | |
| RAD-ALT14-C02-01 | 367937,22 | 8222460,12 | 529,60 |
| RAD-ALT14-C02-02 | 367939,40 | 8222475,01 | 529,60 |
| RAD-ALT14-C02-03 | 367938,89 | 8222486,50 | 529,63 |
| RAD-ALT14-C02-04 | 367936,98 | 8222497,95 | 529,62 |
| RAD-ALT14-C02-05 | 367932,02 | 8222508,48 | 529,60 |
| RAD-ALT14-C02-06 | 367931,60 | 8222519,48 | 529,61 |
| RAD-ALT14-C02-07 | 367928,49 | 8222529,69 | 529,60 |
| RAD-ALT14-C02-08 | 367925,18 | 8222539,65 | 529,63 |
| RAD-ALT14-C02-09 | 367914,16 | 8222553,21 | 529,63 |
| RAD-ALT14-C02-10 | 367911,59 | 8222564,73 | 529,64 |
| RAD-ALT14-C02-11 | 367902,83 | 8222574,75 | 529,62 |
| RAD-ALT14-C02-12 | 367897,89 | 8222585,84 | 529,63 |
| RAD-ALT14-C02-13 | 367895,38 | 8222597,50 | 529,61 |
| RAD-ALT14-C02-14 | 367894,40 | 8222610,37 | 529,60 |
| RAD-ALT14-C02-15 | 367890,51 | 8222621,78 | 529,60 |
| RAD-ALT14-C02-16 | 367887,08 | 8222633,90 | 529,58 |
| RAD-ALT14-C02-17 | 367880,92 | 8222643,45 | 529,61 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT14-C02-18 | 367879,51 | 8222656,06 | 529,61 |
| RAD-ALT14-C02-19 | 367874,16 | 8222666,68 | 529,58 |
| RAD-ALT14-C02-20 | 367868,71 | 8222679,12 | 529,58 |
| RAD-ALT14-C02-21 | 367865,61 | 8222692,00 | 529,60 |
| RAD-ALT14-C02-22 | 367858,83 | 8222702,66 | 529,60 |
| RAD-ALT14-C02-23 | 367857,93 | 8222713,71 | 529,61 |
| RAD-ALT14-C02-24 | 367855,88 | 8222724,99 | 529,59 |
| RAD-ALT14-C02-25 | 367855,82 | 8222735,38 | 529,59 |
| RAD-ALT14-C02-26 | 367853,44 | 8222745,18 | 529,63 |
| RAD-ALT14-C02-27 | 367854,45 | 8222758,39 | 529,60 |
| RAD-ALT14-C02-28 | 367854,72 | 8222769,94 | 529,63 |
| RAD-ALT14-C02-29 | 367854,02 | 8222780,49 | 529,60 |
| RAD-ALT14-C02-30 | 367857,22 | 8222793,28 | 529,60 |
| RAD-ALT14-C02-31 | 367857,94 | 8222804,98 | 529,61 |
| RAD-ALT14-C02-32 | 367861,46 | 8222817,62 | 529,61 |
| RAD-ALT14-C02-33 | 367860,46 | 8222829,02 | 529,59 |
| RAD-ALT14-C02-34 | 367860,08 | 8222846,29 | 529,63 |
| RAD-ALT14-C02-35 | 367938,18 | 8222448,17 | 529,58 |
| RAD-ALT14-C02-36 | 367937,34 | 8222435,47 | 529,61 |
| RAD-ALT14-C02-37 | 367935,68 | 8222427,01 | 529,59 |
| RAD-ALT14-C02-38 | 367936,15 | 8222418,40 | 529,58 |
| RAD-ALT14-C02-39 | 367931,09 | 8222409,52 | 529,60 |
| RAD-ALT14-C02-40 | 367926,49 | 8222400,16 | 529,59 |
| RAD-ALT14-C02-41 | 367924,65 | 8222391,27 | 529,59 |
| RAD-ALT14-C02-42 | 367919,72 | 8222383,22 | 529,61 |
| RAD-ALT14-C02-43 | 367918,50 | 8222370,10 | 529,61 |
| RAD-ALT14-C02-44 | 367915,67 | 8222360,62 | 529,59 |
| RAD-ALT14-C02-45 | 367909,57 | 8222351,19 | 529,60 |
| RAD-ALT14-C02-46 | 367908,65 | 8222341,14 | 529,61 |
| RAD-ALT14-C02-47 | 367909,16 | 8222331,03 | 529,63 |
| RAD-ALT14-C02-48 | 367906,27 | 8222321,93 | 529,63 |
| RAD-ALT14-C02-49 | 367902,45 | 8222311,43 | 529,60 |
| CURVA 03 | | | |
| RAD-ALT14-C03-01 | 367825,56 | 8222692,03 | 531,06 |
| RAD-ALT14-C03-02 | 367825,54 | 8222702,92 | 531,02 |
| RAD-ALT14-C03-03 | 367823,47 | 8222716,51 | 530,98 |
| RAD-ALT14-C03-04 | 367828,10 | 8222680,35 | 531,03 |
| RAD-ALT14-C03-05 | 367831,77 | 8222670,18 | 530,99 |
| RAD-ALT14-C03-06 | 367835,28 | 8222659,29 | 530,97 |
| RAD-ALT14-C03-07 | 367837,92 | 8222647,41 | 531,00 |
| RAD-ALT14-C03-08 | 367843,16 | 8222637,67 | 531,01 |
| RAD-ALT14-C03-09 | 367845,09 | 8222626,12 | 530,98 |
| RAD-ALT14-C03-10 | 367850,35 | 8222617,81 | 530,99 |
| RAD-ALT14-C03-11 | 367851,63 | 8222608,12 | 530,97 |
| RAD-ALT14-C03-12 | 367853,94 | 8222596,71 | 531,01 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT14-C03-13 | 367856,25 | 8222586,98 | 531,04 |
| RAD-ALT14-C03-14 | 367857,94 | 8222575,68 | 531,03 |
| RAD-ALT14-C03-15 | 367861,42 | 8222565,53 | 531,04 |
| RAD-ALT14-C03-16 | 367867,85 | 8222551,88 | 531,02 |
| RAD-ALT14-C03-17 | 367871,57 | 8222542,10 | 531,00 |
| RAD-ALT14-C03-18 | 367874,94 | 8222530,88 | 531,01 |
| RAD-ALT14-C03-19 | 367878,99 | 8222521,73 | 531,01 |
| RAD-ALT14-C03-20 | 367884,03 | 8222509,81 | 531,03 |
| RAD-ALT14-C03-21 | 367891,62 | 8222500,49 | 531,02 |
| RAD-ALT14-C03-22 | 367891,74 | 8222487,41 | 530,99 |
| RAD-ALT14-C03-23 | 367892,60 | 8222476,48 | 531,01 |
| RAD-ALT14-C03-24 | 367892,17 | 8222459,18 | 530,98 |
| RAD-ALT14-C03-25 | 367892,96 | 8222448,52 | 531,03 |
| RAD-ALT14-C03-26 | 367893,44 | 8222438,07 | 531,00 |
| RAD-ALT14-C03-27 | 367893,32 | 8222428,14 | 531,04 |
| RAD-ALT14-C03-28 | 367891,29 | 8222418,58 | 531,02 |
| RAD-ALT14-C03-29 | 367892,95 | 8222408,33 | 531,01 |
| RAD-ALT14-C03-30 | 367893,83 | 8222398,79 | 530,99 |
| RAD-ALT14-C03-31 | 367891,49 | 8222388,73 | 531,03 |
| RAD-ALT14-C03-32 | 367888,31 | 8222378,05 | 531,03 |
| RAD-ALT14-C03-33 | 367884,87 | 8222367,61 | 531,01 |
| RAD-ALT14-C03-34 | 367881,94 | 8222357,87 | 531,04 |
| RAD-ALT14-C03-35 | 367877,40 | 8222347,44 | 531,03 |
| RAD-ALT14-C03-36 | 367874,39 | 8222335,76 | 531,04 |
| RAD-ALT14-C03-37 | 367872,27 | 8222326,07 | 531,00 |
| RAD-ALT14-C03-38 | 367867,79 | 8222315,36 | 531,01 |
| CURVA 04 | | | |
| RAD-ALT14-C04-01 | 367815,02 | 8222866,31 | 525,70 |
| RAD-ALT14-C04-02 | 367819,31 | 8222873,83 | 525,68 |
| RAD-ALT14-C04-03 | 367821,58 | 8222882,55 | 525,69 |
| RAD-ALT14-C04-04 | 367823,41 | 8222891,63 | 525,69 |
| RAD-ALT14-C04-05 | 367825,96 | 8222901,37 | 525,71 |
| RAD-ALT14-C04-06 | 367828,32 | 8222910,33 | 525,72 |
| RAD-ALT14-C04-07 | 367831,76 | 8222919,37 | 525,72 |
| RAD-ALT14-C04-08 | 367835,60 | 8222927,82 | 525,70 |
| RAD-ALT14-C04-09 | 367835,93 | 8222935,09 | 525,70 |
| RAD-ALT14-C04-10 | 367838,31 | 8222945,35 | 525,71 |
| RAD-ALT14-C04-11 | 367841,20 | 8222954,06 | 525,71 |
| RAD-ALT14-C04-12 | 367844,23 | 8222963,72 | 525,71 |
| CURVA 05 | | | |
| RAD-ALT14-C05-01 | 367773,14 | 8222884,87 | 527,02 |
| RAD-ALT14-C05-02 | 367778,31 | 8222894,75 | 527,02 |
| RAD-ALT14-C05-03 | 367782,74 | 8222904,01 | 527,04 |
| RAD-ALT14-C05-04 | 367785,70 | 8222914,84 | 527,02 |
| RAD-ALT14-C05-05 | 367788,48 | 8222923,49 | 527,02 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT14-C05-06 | 367791,55 | 8222936,02 | 527,02 |
| RAD-ALT14-C05-07 | 367796,98 | 8222947,78 | 527,03 |
| RAD-ALT14-C05-08 | 367800,12 | 8222957,92 | 527,04 |
| RAD-ALT14-C05-09 | 367800,36 | 8222966,62 | 527,02 |
| RAD-ALT14-C05-10 | 367799,77 | 8222975,49 | 527,02 |
| RAD-ALT14-C05-11 | 367805,15 | 8222986,52 | 527,02 |
| RAD-ALT14-C05-12 | 367810,72 | 8222996,24 | 527,02 |
| RAD-ALT14-C05-13 | 367814,36 | 8223003,84 | 527,02 |
| RAD-ALT14-C05-14 | 367817,29 | 8223013,33 | 527,02 |
| RAD-ALT14-C05-15 | 367817,63 | 8223021,29 | 527,02 |
| RAD-ALT14-C05-16 | 367822,19 | 8223031,63 | 527,04 |
| RAD-ALT14-C05-17 | 367826,29 | 8223041,02 | 526,98 |
| RAD-ALT14-C05-18 | 367829,95 | 8223051,51 | 527,02 |
| RAD-ALT14-C05-19 | 367836,57 | 8223056,49 | 527,03 |
| RAD-ALT14-C05-20 | 367837,82 | 8223066,40 | 527,00 |
| RAD-ALT14-C05-21 | 367839,67 | 8223075,69 | 527,01 |
| RAD-ALT14-C05-22 | 367842,32 | 8223084,91 | 527,02 |
| RAD-ALT14-C05-23 | 367843,37 | 8223093,71 | 527,00 |
| RAD-ALT14-C05-24 | 367845,95 | 8223102,82 | 527,02 |
| RAD-ALT14-C05-25 | 367847,23 | 8223112,11 | 527,02 |

Locação de Terraços - RAD-ALT-15

| NOME | ESTE | NORTE | ALTITUDE |
|------------------|-----------|------------|----------|
| CURVA 01 | | | |
| RAD-ALT15-C01-01 | 367698,74 | 8219007,94 | 558,72 |
| RAD-ALT15-C01-02 | 367698,46 | 8219020,52 | 558,69 |
| RAD-ALT15-C01-03 | 367698,10 | 8219030,41 | 558,68 |
| RAD-ALT15-C01-04 | 367697,51 | 8219039,92 | 558,68 |
| CURVA 02 | | | |
| RAD-ALT15-C02-01 | 367665,91 | 8218964,00 | 557,49 |
| RAD-ALT15-C02-02 | 367664,62 | 8218974,61 | 557,49 |
| RAD-ALT15-C02-03 | 367663,09 | 8218983,41 | 557,50 |
| RAD-ALT15-C02-04 | 367660,83 | 8218992,43 | 557,51 |
| RAD-ALT15-C02-05 | 367662,74 | 8219002,91 | 557,50 |
| RAD-ALT15-C02-06 | 367663,25 | 8219012,13 | 557,49 |
| RAD-ALT15-C02-07 | 367664,73 | 8219021,63 | 557,52 |
| RAD-ALT15-C02-08 | 367666,30 | 8219031,19 | 557,50 |
| RAD-ALT15-C02-09 | 367666,74 | 8219039,61 | 557,48 |
| RAD-ALT15-C02-10 | 367667,06 | 8219048,31 | 557,52 |
| RAD-ALT15-C02-11 | 367668,45 | 8219055,41 | 557,51 |
| RAD-ALT15-C02-12 | 367667,54 | 8219059,65 | 557,50 |
| CURVA 03 | | | |
| RAD-ALT15-C03-01 | 367634,63 | 8219085,15 | 556,33 |
| RAD-ALT15-C03-02 | 367634,06 | 8219076,32 | 556,30 |
| RAD-ALT15-C03-03 | 367633,71 | 8219067,73 | 556,32 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT15-C03-04 | 367633,79 | 8219059,04 | 556,30 |
| RAD-ALT15-C03-05 | 367633,41 | 8219049,35 | 556,33 |
| RAD-ALT15-C03-06 | 367633,64 | 8219040,75 | 556,29 |
| RAD-ALT15-C03-07 | 367635,40 | 8219031,42 | 556,30 |
| RAD-ALT15-C03-08 | 367636,12 | 8219021,98 | 556,31 |
| RAD-ALT15-C03-09 | 367637,68 | 8219013,36 | 556,32 |
| RAD-ALT15-C03-10 | 367638,31 | 8219003,98 | 556,32 |
| RAD-ALT15-C03-11 | 367637,82 | 8218992,85 | 556,30 |
| CURVA 04 | | | |
| RAD-ALT15-C04-01 | 367602,58 | 8219064,93 | 554,99 |
| RAD-ALT15-C04-02 | 367600,51 | 8219075,48 | 555,01 |
| RAD-ALT15-C04-03 | 367599,09 | 8219084,92 | 555,04 |
| RAD-ALT15-C04-04 | 367598,24 | 8219093,15 | 555,02 |
| RAD-ALT15-C04-05 | 367596,41 | 8219100,77 | 555,03 |
| RAD-ALT15-C04-06 | 367591,73 | 8219109,63 | 554,99 |
| RAD-ALT15-C04-07 | 367594,65 | 8219118,77 | 555,00 |
| CURVA 05 | | | |
| RAD-ALT15-C05-01 | 367561,63 | 8219079,56 | 553,72 |
| RAD-ALT15-C05-02 | 367560,01 | 8219090,59 | 553,72 |
| RAD-ALT15-C05-03 | 367560,84 | 8219100,06 | 553,70 |
| RAD-ALT15-C05-04 | 367556,72 | 8219109,39 | 553,70 |
| RAD-ALT15-C05-05 | 367553,92 | 8219119,09 | 553,73 |
| RAD-ALT15-C05-06 | 367552,96 | 8219126,41 | 553,71 |
| RAD-ALT15-C05-07 | 367552,62 | 8219134,74 | 553,72 |
| RAD-ALT15-C05-08 | 367553,25 | 8219142,54 | 553,72 |
| RAD-ALT15-C05-09 | 367545,16 | 8219152,85 | 553,71 |
| RAD-ALT15-C05-10 | 367537,37 | 8219160,44 | 553,73 |
| RAD-ALT15-C05-11 | 367530,49 | 8219166,27 | 553,68 |
| RAD-ALT15-C05-12 | 367522,78 | 8219171,64 | 553,70 |
| RAD-ALT15-C05-13 | 367515,04 | 8219177,60 | 553,71 |
| RAD-ALT15-C05-14 | 367507,58 | 8219183,08 | 553,66 |
| RAD-ALT15-C05-15 | 367501,50 | 8219187,65 | 553,70 |
| RAD-ALT15-C05-16 | 367495,28 | 8219192,46 | 553,69 |
| CURVA 06 | | | |
| RAD-ALT15-C06-01 | 367522,77 | 8219085,23 | 552,32 |
| RAD-ALT15-C06-02 | 367518,73 | 8219093,50 | 552,28 |
| RAD-ALT15-C06-03 | 367520,79 | 8219101,29 | 552,30 |
| RAD-ALT15-C06-04 | 367517,19 | 8219112,11 | 552,32 |
| RAD-ALT15-C06-05 | 367514,10 | 8219122,50 | 552,31 |
| RAD-ALT15-C06-06 | 367505,89 | 8219128,82 | 552,29 |
| RAD-ALT15-C06-07 | 367500,72 | 8219137,64 | 552,29 |
| RAD-ALT15-C06-08 | 367498,24 | 8219146,83 | 552,30 |
| RAD-ALT15-C06-09 | 367493,94 | 8219156,00 | 552,32 |
| RAD-ALT15-C06-10 | 367488,18 | 8219163,20 | 552,32 |
| RAD-ALT15-C06-11 | 367479,20 | 8219170,00 | 552,32 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT15-C06-12 | 367471,25 | 8219177,11 | 552,30 |
| RAD-ALT15-C06-13 | 367463,68 | 8219182,96 | 552,34 |
| RAD-ALT15-C06-14 | 367454,32 | 8219187,94 | 552,32 |
| RAD-ALT15-C06-15 | 367445,44 | 8219192,49 | 552,29 |
| CURVA 07 | | | |
| RAD-ALT15-C07-01 | 367383,12 | 8219165,64 | 550,99 |
| RAD-ALT15-C07-02 | 367390,09 | 8219159,32 | 550,99 |
| RAD-ALT15-C07-03 | 367400,63 | 8219155,69 | 550,99 |
| RAD-ALT15-C07-04 | 367409,18 | 8219151,51 | 550,98 |
| RAD-ALT15-C07-05 | 367422,67 | 8219146,23 | 551,01 |
| RAD-ALT15-C07-06 | 367433,25 | 8219143,42 | 551,00 |
| RAD-ALT15-C07-07 | 367440,57 | 8219137,59 | 551,00 |
| RAD-ALT15-C07-08 | 367449,65 | 8219125,30 | 551,03 |
| RAD-ALT15-C07-09 | 367463,37 | 8219121,83 | 550,99 |
| RAD-ALT15-C07-10 | 367472,38 | 8219115,16 | 551,02 |
| RAD-ALT15-C07-11 | 367476,51 | 8219105,88 | 550,96 |
| RAD-ALT15-C07-12 | 367479,21 | 8219094,54 | 551,02 |
| RAD-ALT15-C07-13 | 367483,77 | 8219084,10 | 550,97 |
| RAD-ALT15-C07-14 | 367490,91 | 8219076,56 | 551,02 |
| CURVA 08 | | | |
| RAD-ALT15-C08-01 | 367708,66 | 8218959,15 | 559,17 |
| RAD-ALT15-C08-02 | 367714,81 | 8218951,84 | 559,20 |
| RAD-ALT15-C08-03 | 367712,43 | 8218940,70 | 559,22 |
| RAD-ALT15-C08-04 | 367709,40 | 8218927,16 | 559,22 |
| RAD-ALT15-C08-05 | 367708,36 | 8218916,71 | 559,21 |
| CURVA 09 | | | |
| RAD-ALT15-C09-01 | 367737,34 | 8218876,47 | 560,51 |
| RAD-ALT15-C09-02 | 367740,61 | 8218886,61 | 560,50 |
| RAD-ALT15-C09-03 | 367742,21 | 8218896,35 | 560,50 |
| RAD-ALT15-C09-04 | 367744,65 | 8218905,40 | 560,52 |
| RAD-ALT15-C09-05 | 367744,73 | 8218915,59 | 560,53 |
| RAD-ALT15-C09-06 | 367744,10 | 8218924,99 | 560,48 |
| RAD-ALT15-C09-07 | 367742,70 | 8218934,49 | 560,48 |
| RAD-ALT15-C09-08 | 367749,44 | 8218945,91 | 560,51 |
| RAD-ALT15-C09-09 | 367753,27 | 8218955,39 | 560,52 |
| RAD-ALT15-C09-10 | 367752,43 | 8218964,94 | 560,50 |
| RAD-ALT15-C09-11 | 367753,09 | 8218975,03 | 560,48 |
| RAD-ALT15-C09-12 | 367755,85 | 8218985,57 | 560,49 |
| RAD-ALT15-C09-13 | 367761,16 | 8218992,04 | 560,53 |
| RAD-ALT15-C09-14 | 367764,58 | 8219000,32 | 560,51 |
| RAD-ALT15-C09-15 | 367764,33 | 8219009,42 | 560,53 |
| RAD-ALT15-C09-16 | 367762,73 | 8219019,11 | 560,48 |
| RAD-ALT15-C09-17 | 367763,30 | 8219027,56 | 560,48 |
| RAD-ALT15-C09-18 | 367766,98 | 8219037,16 | 560,49 |
| RAD-ALT15-C09-19 | 367776,09 | 8219047,03 | 560,48 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT15-C09-20 | 367785,71 | 8219053,96 | 560,48 |
| RAD-ALT15-C09-21 | 367793,39 | 8219061,24 | 560,49 |
| RAD-ALT15-C09-22 | 367798,23 | 8219069,58 | 560,49 |
| RAD-ALT15-C09-23 | 367804,19 | 8219075,98 | 560,52 |
| RAD-ALT15-C09-24 | 367810,83 | 8219082,99 | 560,53 |
| RAD-ALT15-C09-25 | 367817,88 | 8219089,57 | 560,53 |
| RAD-ALT15-C09-26 | 367826,28 | 8219094,20 | 560,50 |
| RAD-ALT15-C09-27 | 367836,23 | 8219097,20 | 560,50 |
| RAD-ALT15-C09-28 | 367847,47 | 8219098,58 | 560,50 |
| RAD-ALT15-C09-29 | 367858,20 | 8219101,16 | 560,50 |
| RAD-ALT15-C09-30 | 367867,05 | 8219103,27 | 560,50 |
| RAD-ALT15-C09-31 | 367875,70 | 8219103,74 | 560,48 |
| RAD-ALT15-C09-32 | 367886,64 | 8219091,95 | 560,52 |
| RAD-ALT15-C09-33 | 367897,09 | 8219089,02 | 560,49 |
| RAD-ALT15-C09-34 | 367907,50 | 8219089,81 | 560,52 |
| RAD-ALT15-C09-35 | 367916,88 | 8219091,66 | 560,51 |
| RAD-ALT15-C09-36 | 367926,70 | 8219084,32 | 560,52 |
| RAD-ALT15-C09-37 | 367936,56 | 8219085,87 | 560,51 |
| RAD-ALT15-C09-38 | 367944,31 | 8219074,08 | 560,48 |
| RAD-ALT15-C09-39 | 367952,64 | 8219070,64 | 560,51 |
| RAD-ALT15-C09-40 | 367962,37 | 8219068,19 | 560,52 |
| RAD-ALT15-C09-41 | 367972,46 | 8219065,27 | 560,51 |
| CURVA 10 | | | |
| RAD-ALT15-C10-01 | 367765,17 | 8218841,73 | 561,81 |
| RAD-ALT15-C10-02 | 367765,23 | 8218841,67 | 561,80 |
| RAD-ALT15-C10-03 | 367773,25 | 8218847,84 | 561,81 |
| RAD-ALT15-C10-04 | 367774,22 | 8218858,40 | 561,81 |
| RAD-ALT15-C10-05 | 367776,32 | 8218868,83 | 561,82 |
| RAD-ALT15-C10-06 | 367778,12 | 8218878,33 | 561,79 |
| RAD-ALT15-C10-07 | 367779,47 | 8218889,30 | 561,79 |
| RAD-ALT15-C10-08 | 367781,99 | 8218899,52 | 561,78 |
| RAD-ALT15-C10-09 | 367788,63 | 8218909,96 | 561,81 |
| RAD-ALT15-C10-10 | 367792,70 | 8218919,46 | 561,82 |
| RAD-ALT15-C10-11 | 367795,15 | 8218928,98 | 561,81 |
| RAD-ALT15-C10-12 | 367797,04 | 8218938,59 | 561,80 |
| RAD-ALT15-C10-13 | 367802,38 | 8218947,16 | 561,79 |
| RAD-ALT15-C10-14 | 367807,27 | 8218955,95 | 561,78 |
| RAD-ALT15-C10-15 | 367812,38 | 8218963,56 | 561,79 |
| RAD-ALT15-C10-16 | 367819,88 | 8218970,35 | 561,78 |
| RAD-ALT15-C10-17 | 367825,95 | 8218979,68 | 561,79 |
| RAD-ALT15-C10-18 | 367832,41 | 8218987,41 | 561,81 |
| RAD-ALT15-C10-19 | 367837,29 | 8218995,08 | 561,82 |
| RAD-ALT15-C10-20 | 367843,43 | 8219001,99 | 561,79 |
| RAD-ALT15-C10-21 | 367855,26 | 8219005,76 | 561,79 |
| RAD-ALT15-C10-22 | 367864,21 | 8219008,58 | 561,80 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT15-C10-23 | 367873,24 | 8219012,78 | 561,79 |
| RAD-ALT15-C10-24 | 367884,97 | 8219012,86 | 561,79 |
| RAD-ALT15-C10-25 | 367894,45 | 8219013,22 | 561,82 |
| RAD-ALT15-C10-26 | 367903,71 | 8219011,92 | 561,78 |
| RAD-ALT15-C10-27 | 367913,18 | 8219010,82 | 561,81 |
| RAD-ALT15-C10-28 | 367923,56 | 8219010,45 | 561,81 |
| RAD-ALT15-C10-29 | 367932,58 | 8219005,71 | 561,81 |
| RAD-ALT15-C10-30 | 367940,98 | 8219003,82 | 561,82 |
| CURVA 11 | | | |
| RAD-ALT15-C11-01 | 367921,02 | 8218950,14 | 562,90 |
| RAD-ALT15-C11-02 | 367911,93 | 8218942,46 | 562,90 |
| RAD-ALT15-C11-03 | 367904,19 | 8218935,03 | 562,92 |
| RAD-ALT15-C11-04 | 367892,88 | 8218930,81 | 562,92 |
| RAD-ALT15-C11-05 | 367883,96 | 8218923,06 | 562,92 |
| RAD-ALT15-C11-06 | 367870,86 | 8218918,32 | 562,92 |
| RAD-ALT15-C11-07 | 367860,38 | 8218912,64 | 562,91 |
| RAD-ALT15-C11-08 | 367853,97 | 8218905,46 | 562,92 |
| RAD-ALT15-C11-09 | 367843,98 | 8218898,82 | 562,89 |
| RAD-ALT15-C11-10 | 367839,73 | 8218891,66 | 562,90 |
| RAD-ALT15-C11-11 | 367834,03 | 8218881,14 | 562,89 |
| RAD-ALT15-C11-12 | 367824,03 | 8218871,07 | 562,88 |
| RAD-ALT15-C11-13 | 367819,64 | 8218860,42 | 562,93 |
| RAD-ALT15-C11-14 | 367810,58 | 8218849,97 | 562,91 |
| RAD-ALT15-C11-15 | 367801,58 | 8218840,24 | 562,89 |
| RAD-ALT15-C11-16 | 367800,16 | 8218825,59 | 562,92 |
| RAD-ALT15-C11-17 | 367797,94 | 8218810,74 | 562,91 |
| CURVA 12 | | | |
| RAD-ALT15-C12-01 | 367824,87 | 8218783,57 | 564,03 |
| RAD-ALT15-C12-02 | 367830,19 | 8218793,25 | 563,98 |
| RAD-ALT15-C12-03 | 367836,11 | 8218801,06 | 563,99 |
| RAD-ALT15-C12-04 | 367844,09 | 8218804,51 | 564,03 |
| RAD-ALT15-C12-05 | 367850,41 | 8218814,67 | 564,02 |
| RAD-ALT15-C12-06 | 367855,48 | 8218825,05 | 564,00 |
| RAD-ALT15-C12-07 | 367862,80 | 8218831,30 | 563,99 |
| RAD-ALT15-C12-08 | 367869,93 | 8218839,01 | 564,03 |
| RAD-ALT15-C12-09 | 367877,55 | 8218845,31 | 563,98 |
| RAD-ALT15-C12-10 | 367890,37 | 8218850,04 | 564,03 |
| RAD-ALT15-C12-11 | 367900,06 | 8218851,18 | 564,03 |
| RAD-ALT15-C12-12 | 367910,64 | 8218853,96 | 564,01 |
| RAD-ALT15-C12-13 | 367921,25 | 8218854,59 | 563,99 |
| CURVA 13 | | | |
| RAD-ALT15-C13-01 | 367766,32 | 8219152,43 | 559,30 |
| RAD-ALT15-C13-02 | 367775,94 | 8219158,29 | 559,32 |
| RAD-ALT15-C13-03 | 367782,35 | 8219167,04 | 559,29 |
| RAD-ALT15-C13-04 | 367787,31 | 8219174,56 | 559,32 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT15-C13-05 | 367792,54 | 8219181,65 | 559,31 |
| RAD-ALT15-C13-06 | 367804,70 | 8219186,20 | 559,29 |
| RAD-ALT15-C13-07 | 367813,87 | 8219188,01 | 559,30 |
| RAD-ALT15-C13-08 | 367823,01 | 8219190,95 | 559,30 |
| RAD-ALT15-C13-09 | 367832,26 | 8219196,06 | 559,30 |
| RAD-ALT15-C13-10 | 367842,52 | 8219198,82 | 559,30 |
| RAD-ALT15-C13-11 | 367856,04 | 8219193,30 | 559,31 |
| RAD-ALT15-C13-12 | 367865,32 | 8219193,28 | 559,31 |
| RAD-ALT15-C13-13 | 367878,28 | 8219192,86 | 559,29 |
| RAD-ALT15-C13-14 | 367891,14 | 8219183,13 | 559,30 |
| RAD-ALT15-C13-15 | 367904,08 | 8219179,33 | 559,28 |
| RAD-ALT15-C13-16 | 367917,72 | 8219169,08 | 559,31 |
| RAD-ALT15-C13-17 | 367928,03 | 8219163,41 | 559,31 |
| RAD-ALT15-C13-18 | 367934,97 | 8219154,89 | 559,31 |
| RAD-ALT15-C13-19 | 367947,11 | 8219152,43 | 559,29 |

Locação de Terraços - RAD-ALT-16

| NOME | ESTE | NORTE | ALTITUDE |
|------------------|-----------|------------|----------|
| CURVA 01 | | | |
| RAD-ALT16-C01-01 | 367506,17 | 8218305,55 | 549,63 |
| RAD-ALT16-C01-02 | 367506,41 | 8218295,82 | 549,57 |
| RAD-ALT16-C01-03 | 367504,09 | 8218285,58 | 549,61 |
| RAD-ALT16-C01-04 | 367507,90 | 8218274,15 | 549,58 |
| RAD-ALT16-C01-05 | 367513,79 | 8218264,27 | 549,58 |
| RAD-ALT16-C01-06 | 367520,17 | 8218257,06 | 549,63 |
| RAD-ALT16-C01-07 | 367523,83 | 8218246,80 | 549,57 |
| RAD-ALT16-C01-08 | 367524,01 | 8218234,40 | 549,60 |
| RAD-ALT16-C01-09 | 367521,09 | 8218224,23 | 549,61 |
| RAD-ALT16-C01-10 | 367518,52 | 8218216,37 | 549,60 |
| RAD-ALT16-C01-11 | 367514,77 | 8218205,03 | 549,62 |
| RAD-ALT16-C01-12 | 367515,11 | 8218191,74 | 549,60 |
| CURVA 02 | | | |
| RAD-ALT16-C02-01 | 367409,53 | 8218177,56 | 555,59 |
| RAD-ALT16-C02-02 | 367418,07 | 8218170,83 | 555,59 |
| RAD-ALT16-C02-03 | 367424,56 | 8218163,83 | 555,59 |
| RAD-ALT16-C02-04 | 367430,77 | 8218156,51 | 555,61 |
| RAD-ALT16-C02-05 | 367437,41 | 8218147,24 | 555,58 |
| RAD-ALT16-C02-06 | 367442,69 | 8218135,44 | 555,58 |
| RAD-ALT16-C02-07 | 367447,16 | 8218126,70 | 555,62 |
| RAD-ALT16-C02-08 | 367454,99 | 8218119,54 | 555,62 |
| RAD-ALT16-C02-09 | 367461,48 | 8218112,42 | 555,60 |
| RAD-ALT16-C02-10 | 367466,14 | 8218105,18 | 555,58 |
| RAD-ALT16-C02-11 | 367470,53 | 8218094,46 | 555,61 |
| RAD-ALT16-C02-12 | 367476,28 | 8218085,50 | 555,60 |
| RAD-ALT16-C02-13 | 367478,62 | 8218076,66 | 555,61 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT16-C02-14 | 367486,30 | 8218076,85 | 555,62 |
| RAD-ALT16-C02-15 | 367492,48 | 8218069,58 | 555,60 |
| RAD-ALT16-C02-16 | 367498,57 | 8218061,23 | 555,62 |
| RAD-ALT16-C02-17 | 367504,23 | 8218051,95 | 555,59 |
| CURVA 03 | | | |
| RAD-ALT16-C03-01 | 367495,04 | 8218113,96 | 554,21 |
| RAD-ALT16-C03-02 | 367495,94 | 8218104,58 | 554,21 |
| RAD-ALT16-C03-03 | 367503,03 | 8218097,89 | 554,20 |
| RAD-ALT16-C03-04 | 367510,60 | 8218085,83 | 554,19 |
| RAD-ALT16-C03-05 | 367514,16 | 8218070,46 | 554,22 |
| RAD-ALT16-C03-06 | 367524,43 | 8218061,63 | 554,22 |
| RAD-ALT16-C03-07 | 367533,84 | 8218062,39 | 554,21 |
| RAD-ALT16-C03-08 | 367539,18 | 8218063,69 | 554,22 |
| CURVA 04 | | | |
| RAD-ALT16-C04-01 | 367435,95 | 8218069,34 | 557,50 |
| RAD-ALT16-C04-02 | 367427,77 | 8218075,52 | 557,51 |
| RAD-ALT16-C04-03 | 367425,41 | 8218082,98 | 557,51 |
| RAD-ALT16-C04-04 | 367422,04 | 8218091,96 | 557,52 |
| RAD-ALT16-C04-05 | 367418,89 | 8218100,08 | 557,50 |
| RAD-ALT16-C04-06 | 367413,76 | 8218106,06 | 557,50 |
| RAD-ALT16-C04-07 | 367408,17 | 8218113,42 | 557,52 |
| RAD-ALT16-C04-08 | 367402,29 | 8218123,20 | 557,50 |
| RAD-ALT16-C04-09 | 367395,88 | 8218132,11 | 557,52 |
| RAD-ALT16-C04-10 | 367442,65 | 8218059,45 | 557,48 |
| RAD-ALT16-C04-11 | 367451,25 | 8218051,41 | 557,51 |
| RAD-ALT16-C04-12 | 367457,02 | 8218043,43 | 557,51 |
| RAD-ALT16-C04-13 | 367463,24 | 8218035,31 | 557,49 |
| RAD-ALT16-C04-14 | 367469,73 | 8218025,70 | 557,50 |
| RAD-ALT16-C04-15 | 367476,42 | 8218013,66 | 557,48 |
| RAD-ALT16-C04-16 | 367485,79 | 8218005,29 | 557,51 |
| RAD-ALT16-C04-17 | 367494,78 | 8218000,16 | 557,50 |
| RAD-ALT16-C04-18 | 367500,32 | 8217991,21 | 557,49 |
| RAD-ALT16-C04-19 | 367505,55 | 8217981,64 | 557,51 |
| RAD-ALT16-C04-20 | 367511,22 | 8217974,29 | 557,52 |
| RAD-ALT16-C04-21 | 367517,85 | 8217967,52 | 557,51 |
| RAD-ALT16-C04-22 | 367525,25 | 8217961,10 | 557,52 |
| RAD-ALT16-C04-23 | 367533,33 | 8217954,31 | 557,52 |
| RAD-ALT16-C04-24 | 367540,80 | 8217947,26 | 557,50 |
| RAD-ALT16-C04-25 | 367547,33 | 8217939,44 | 557,50 |
| RAD-ALT16-C04-26 | 367553,79 | 8217932,78 | 557,52 |
| RAD-ALT16-C04-27 | 367562,82 | 8217926,84 | 557,51 |
| RAD-ALT16-C04-28 | 367566,68 | 8217918,69 | 557,51 |
| RAD-ALT16-C04-29 | 367572,81 | 8217909,95 | 557,49 |
| RAD-ALT16-C04-30 | 367581,10 | 8217902,83 | 557,51 |
| RAD-ALT16-C04-31 | 367587,94 | 8217896,35 | 557,50 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT16-C04-32 | 367590,87 | 8217888,92 | 557,52 |
| RAD-ALT16-C04-33 | 367600,16 | 8217885,09 | 557,51 |
| RAD-ALT16-C04-34 | 367604,11 | 8217878,70 | 557,48 |
| CURVA 05 | | | |
| RAD-ALT16-C05-01 | 367403,12 | 8218024,19 | 559,59 |
| RAD-ALT16-C05-02 | 367399,34 | 8218033,97 | 559,58 |
| RAD-ALT16-C05-03 | 367394,54 | 8218042,59 | 559,59 |
| RAD-ALT16-C05-04 | 367389,76 | 8218050,61 | 559,59 |
| RAD-ALT16-C05-05 | 367384,96 | 8218059,40 | 559,60 |
| RAD-ALT16-C05-06 | 367381,64 | 8218068,44 | 559,60 |
| RAD-ALT16-C05-07 | 367375,40 | 8218078,19 | 559,59 |
| RAD-ALT16-C05-08 | 367368,85 | 8218086,31 | 559,63 |
| RAD-ALT16-C05-09 | 367362,76 | 8218095,66 | 559,62 |
| RAD-ALT16-C05-10 | 367354,15 | 8218105,35 | 559,61 |
| RAD-ALT16-C05-11 | 367348,48 | 8218115,96 | 559,60 |
| RAD-ALT16-C05-12 | 367341,36 | 8218123,38 | 559,61 |
| RAD-ALT16-C05-13 | 367331,79 | 8218132,25 | 559,60 |
| RAD-ALT16-C05-14 | 367323,56 | 8218140,97 | 559,60 |
| RAD-ALT16-C05-15 | 367312,03 | 8218148,34 | 559,61 |
| RAD-ALT16-C05-16 | 367410,06 | 8218015,66 | 559,63 |
| RAD-ALT16-C05-17 | 367417,57 | 8218007,12 | 559,59 |
| RAD-ALT16-C05-18 | 367425,44 | 8217999,65 | 559,59 |
| RAD-ALT16-C05-19 | 367431,54 | 8217988,97 | 559,59 |
| RAD-ALT16-C05-20 | 367435,85 | 8217977,14 | 559,61 |
| RAD-ALT16-C05-21 | 367442,92 | 8217969,44 | 559,60 |
| RAD-ALT16-C05-22 | 367448,52 | 8217961,22 | 559,63 |
| RAD-ALT16-C05-23 | 367453,76 | 8217951,65 | 559,61 |
| RAD-ALT16-C05-24 | 367458,92 | 8217944,42 | 559,61 |
| RAD-ALT16-C05-25 | 367464,53 | 8217937,46 | 559,61 |
| RAD-ALT16-C05-26 | 367470,87 | 8217929,41 | 559,59 |
| RAD-ALT16-C05-27 | 367473,95 | 8217919,95 | 559,63 |
| RAD-ALT16-C05-28 | 367479,97 | 8217912,36 | 559,62 |
| RAD-ALT16-C05-29 | 367484,79 | 8217901,50 | 559,61 |
| RAD-ALT16-C05-30 | 367489,84 | 8217893,35 | 559,60 |
| RAD-ALT16-C05-31 | 367494,98 | 8217882,83 | 559,60 |
| CURVA 06 | | | |
| RAD-ALT16-C06-01 | 367521,44 | 8218046,48 | 564,58 |
| RAD-ALT16-C06-02 | 367532,81 | 8218040,68 | 564,59 |
| RAD-ALT16-C06-03 | 367542,11 | 8218032,26 | 564,59 |
| RAD-ALT16-C06-04 | 367551,00 | 8218027,13 | 564,58 |
| RAD-ALT16-C06-05 | 367560,52 | 8218020,36 | 564,58 |
| RAD-ALT16-C06-06 | 367568,24 | 8218014,93 | 564,59 |
| RAD-ALT16-C06-07 | 367576,41 | 8218011,26 | 564,60 |
| RAD-ALT16-C06-08 | 367586,71 | 8218006,84 | 564,60 |
| CURVA 07 | | | |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT16-C07-01 | 367593,58 | 8217968,65 | 565,59 |
| RAD-ALT16-C07-02 | 367603,12 | 8217964,44 | 565,59 |
| RAD-ALT16-C07-03 | 367612,38 | 8217960,64 | 565,61 |
| RAD-ALT16-C07-04 | 367624,89 | 8217959,80 | 565,61 |
| RAD-ALT16-C07-05 | 367635,20 | 8217956,76 | 565,60 |

Locação de Terraços - RAD-ALT-17

| NOME | ESTE | NORTE | ALTITUDE |
|------------------|-----------|------------|----------|
| CURVA 01 | | | |
| RAD-ALT17-C01-01 | 366846,48 | 8217228,63 | 593,38 |
| RAD-ALT17-C01-02 | 366849,25 | 8217214,61 | 593,39 |
| RAD-ALT17-C01-03 | 366856,66 | 8217206,47 | 593,41 |
| RAD-ALT17-C01-04 | 366866,77 | 8217205,77 | 593,40 |
| RAD-ALT17-C01-05 | 366875,14 | 8217203,53 | 593,42 |
| RAD-ALT17-C01-06 | 366883,29 | 8217199,18 | 593,38 |
| RAD-ALT17-C01-07 | 366889,74 | 8217194,39 | 593,38 |
| RAD-ALT17-C01-08 | 366898,49 | 8217190,18 | 593,40 |
| RAD-ALT17-C01-09 | 366907,15 | 8217186,89 | 593,40 |
| RAD-ALT17-C01-10 | 366912,29 | 8217177,89 | 593,42 |
| RAD-ALT17-C01-11 | 366915,00 | 8217167,97 | 593,41 |
| RAD-ALT17-C01-12 | 366919,60 | 8217159,25 | 593,41 |
| RAD-ALT17-C01-13 | 366921,32 | 8217149,00 | 593,41 |
| RAD-ALT17-C01-14 | 366924,58 | 8217140,99 | 593,41 |
| RAD-ALT17-C01-15 | 366925,73 | 8217132,37 | 593,40 |
| RAD-ALT17-C01-16 | 366926,48 | 8217117,06 | 593,38 |
| RAD-ALT17-C01-17 | 366925,27 | 8217106,57 | 593,40 |
| RAD-ALT17-C01-18 | 366927,95 | 8217098,49 | 593,41 |
| RAD-ALT17-C01-19 | 366926,58 | 8217086,79 | 593,39 |
| RAD-ALT17-C01-20 | 366927,61 | 8217077,03 | 593,40 |
| RAD-ALT17-C01-21 | 366927,77 | 8217068,15 | 593,39 |
| RAD-ALT17-C01-22 | 366934,52 | 8217057,15 | 593,40 |
| RAD-ALT17-C01-23 | 366933,03 | 8217049,07 | 593,38 |
| RAD-ALT17-C01-24 | 366934,23 | 8217037,63 | 593,43 |
| RAD-ALT17-C01-25 | 366941,43 | 8217029,20 | 593,39 |
| RAD-ALT17-C01-26 | 366935,48 | 8217016,72 | 593,40 |
| CURVA 02 | | | |
| RAD-ALT17-C02-01 | 366968,52 | 8216984,64 | 594,63 |
| RAD-ALT17-C02-02 | 366974,84 | 8216993,46 | 594,60 |
| RAD-ALT17-C02-03 | 366987,85 | 8216998,46 | 594,59 |
| RAD-ALT17-C02-04 | 366998,55 | 8217003,90 | 594,58 |
| RAD-ALT17-C02-05 | 367009,98 | 8217001,64 | 594,59 |
| RAD-ALT17-C02-06 | 367019,97 | 8217004,33 | 594,58 |
| RAD-ALT17-C02-07 | 367029,09 | 8217008,89 | 594,60 |
| RAD-ALT17-C02-08 | 367035,88 | 8217017,16 | 594,62 |
| RAD-ALT17-C02-09 | 367041,61 | 8217025,13 | 594,63 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT17-C02-10 | 367048,55 | 8217033,45 | 594,61 |
| RAD-ALT17-C02-11 | 367053,97 | 8217041,53 | 594,59 |
| RAD-ALT17-C02-12 | 367059,62 | 8217050,60 | 594,59 |
| RAD-ALT17-C02-13 | 367066,36 | 8217062,21 | 594,59 |
| RAD-ALT17-C02-14 | 367073,27 | 8217070,35 | 594,61 |
| RAD-ALT17-C02-15 | 367079,52 | 8217076,44 | 594,59 |
| RAD-ALT17-C02-16 | 367089,15 | 8217079,69 | 594,59 |
| CURVA 03 | | | |
| RAD-ALT17-C03-01 | 367103,11 | 8217033,22 | 595,80 |
| RAD-ALT17-C03-02 | 367089,56 | 8217025,41 | 595,82 |
| RAD-ALT17-C03-03 | 367096,42 | 8217029,47 | 595,80 |
| RAD-ALT17-C03-04 | 367080,87 | 8217021,57 | 595,81 |
| RAD-ALT17-C03-05 | 367072,96 | 8217017,49 | 595,80 |
| RAD-ALT17-C03-06 | 367071,35 | 8217009,83 | 595,83 |
| RAD-ALT17-C03-07 | 367068,76 | 8217001,50 | 595,81 |
| RAD-ALT17-C03-08 | 367064,87 | 8216992,98 | 595,80 |
| RAD-ALT17-C03-09 | 367054,86 | 8216986,95 | 595,81 |
| RAD-ALT17-C03-10 | 367046,55 | 8216977,95 | 595,82 |
| RAD-ALT17-C03-11 | 367034,18 | 8216975,47 | 595,81 |
| RAD-ALT17-C03-12 | 367022,29 | 8216974,51 | 595,82 |
| RAD-ALT17-C03-13 | 367013,36 | 8216972,81 | 595,83 |
| RAD-ALT17-C03-14 | 367001,99 | 8216975,56 | 595,80 |
| RAD-ALT17-C03-15 | 366996,86 | 8216964,51 | 595,81 |
| RAD-ALT17-C03-16 | 366991,32 | 8216957,59 | 595,82 |
| RAD-ALT17-C03-17 | 366988,40 | 8216958,16 | 595,79 |
| RAD-ALT17-C03-18 | 366968,60 | 8216940,36 | 595,81 |
| RAD-ALT17-C03-19 | 366976,49 | 8216948,27 | 595,81 |
| CURVA 04 | | | |
| RAD-ALT17-C04-01 | 367016,19 | 8216809,32 | 597,61 |
| RAD-ALT17-C04-02 | 367028,57 | 8216807,39 | 597,60 |
| RAD-ALT17-C04-03 | 367036,51 | 8216815,12 | 597,61 |
| RAD-ALT17-C04-04 | 367047,41 | 8216821,99 | 597,59 |
| RAD-ALT17-C04-05 | 367054,29 | 8216829,78 | 597,59 |
| RAD-ALT17-C04-06 | 367059,33 | 8216836,37 | 597,60 |
| RAD-ALT17-C04-07 | 367065,56 | 8216843,91 | 597,61 |
| RAD-ALT17-C04-08 | 367072,62 | 8216849,59 | 597,60 |
| RAD-ALT17-C04-09 | 367079,73 | 8216856,16 | 597,60 |
| RAD-ALT17-C04-10 | 367088,58 | 8216861,28 | 597,60 |
| RAD-ALT17-C04-11 | 367097,07 | 8216851,60 | 597,59 |
| RAD-ALT17-C04-12 | 367099,84 | 8216842,72 | 597,60 |
| RAD-ALT17-C04-13 | 367105,57 | 8216834,08 | 597,63 |
| RAD-ALT17-C04-14 | 367115,37 | 8216829,43 | 597,60 |
| RAD-ALT17-C04-15 | 367122,64 | 8216823,89 | 597,62 |
| RAD-ALT17-C04-16 | 367136,32 | 8216821,49 | 597,62 |
| RAD-ALT17-C04-17 | 367144,41 | 8216815,26 | 597,63 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT17-C04-18 | 367150,86 | 8216809,87 | 597,59 |
| RAD-ALT17-C04-19 | 367151,28 | 8216794,68 | 597,58 |
| RAD-ALT17-C04-20 | 367151,69 | 8216783,22 | 597,61 |
| RAD-ALT17-C04-21 | 367152,85 | 8216774,23 | 597,59 |
| RAD-ALT17-C04-22 | 367153,06 | 8216763,93 | 597,62 |
| RAD-ALT17-C04-23 | 367152,46 | 8216754,44 | 597,60 |
| RAD-ALT17-C04-24 | 367151,32 | 8216744,04 | 597,60 |
| RAD-ALT17-C04-25 | 367149,34 | 8216735,08 | 597,60 |
| RAD-ALT17-C04-26 | 367148,48 | 8216725,86 | 597,61 |
| RAD-ALT17-C04-27 | 367145,70 | 8216715,96 | 597,61 |
| CURVA 05 | | | |
| RAD-ALT17-C05-01 | 367117,64 | 8216723,16 | 599,02 |
| RAD-ALT17-C05-02 | 367111,40 | 8216733,53 | 599,02 |
| RAD-ALT17-C05-03 | 367108,37 | 8216746,27 | 599,01 |
| RAD-ALT17-C05-04 | 367105,41 | 8216756,38 | 599,01 |
| RAD-ALT17-C05-05 | 367097,94 | 8216762,63 | 599,00 |
| RAD-ALT17-C05-06 | 367087,41 | 8216765,89 | 598,98 |
| RAD-ALT17-C05-07 | 367077,46 | 8216768,78 | 599,00 |
| RAD-ALT17-C05-08 | 367068,20 | 8216772,08 | 598,98 |
| RAD-ALT17-C05-09 | 367057,44 | 8216774,50 | 599,03 |
| RAD-ALT17-C05-10 | 367041,34 | 8216776,55 | 599,03 |
| RAD-ALT17-C05-11 | 367031,97 | 8216776,53 | 598,98 |
| RAD-ALT17-C05-12 | 367120,68 | 8216712,49 | 599,03 |
| RAD-ALT17-C05-13 | 367124,67 | 8216702,56 | 599,02 |
| RAD-ALT17-C05-14 | 367127,81 | 8216692,84 | 599,02 |
| RAD-ALT17-C05-15 | 367129,02 | 8216682,79 | 599,03 |
| RAD-ALT17-C05-16 | 367135,23 | 8216672,28 | 599,03 |
| RAD-ALT17-C05-17 | 367137,25 | 8216661,96 | 599,04 |
| RAD-ALT17-C05-18 | 367141,89 | 8216653,18 | 599,03 |
| CURVA 06 | | | |
| RAD-ALT17-C06-01 | 367131,89 | 8216616,02 | 600,64 |
| RAD-ALT17-C06-02 | 367137,57 | 8216606,56 | 600,61 |
| RAD-ALT17-C06-03 | 367143,98 | 8216597,00 | 600,64 |
| RAD-ALT17-C06-04 | 367125,76 | 8216626,14 | 600,58 |
| RAD-ALT17-C06-05 | 367117,46 | 8216634,53 | 600,60 |
| RAD-ALT17-C06-06 | 367110,04 | 8216641,40 | 600,59 |
| RAD-ALT17-C06-07 | 367100,54 | 8216646,87 | 600,60 |
| RAD-ALT17-C06-08 | 367091,46 | 8216651,11 | 600,62 |
| RAD-ALT17-C06-09 | 367084,31 | 8216659,73 | 600,60 |
| RAD-ALT17-C06-10 | 367073,81 | 8216665,55 | 600,60 |
| CURVA 07 | | | |
| RAD-ALT17-C07-01 | 367180,73 | 8216681,71 | 596,82 |
| RAD-ALT17-C07-02 | 367188,57 | 8216681,52 | 596,80 |
| RAD-ALT17-C07-03 | 367196,18 | 8216689,02 | 596,82 |
| RAD-ALT17-C07-04 | 367195,09 | 8216698,41 | 596,83 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT17-C07-05 | 367196,51 | 8216707,64 | 596,81 |
| RAD-ALT17-C07-06 | 367201,92 | 8216717,02 | 596,82 |
| RAD-ALT17-C07-07 | 367208,94 | 8216717,98 | 596,82 |
| CURVA 08 | | | |
| RAD-ALT17-C08-01 | 367232,92 | 8216649,20 | 598,43 |
| RAD-ALT17-C08-02 | 367226,56 | 8216647,74 | 598,41 |
| RAD-ALT17-C08-03 | 367219,61 | 8216644,45 | 598,41 |
| RAD-ALT17-C08-04 | 367212,32 | 8216641,58 | 598,43 |
| RAD-ALT17-C08-05 | 367205,73 | 8216636,44 | 598,42 |
| RAD-ALT17-C08-06 | 367199,25 | 8216630,41 | 598,40 |
| RAD-ALT17-C08-07 | 367192,71 | 8216630,34 | 598,43 |
| CURVA 09 | | | |
| RAD-ALT17-C09-01 | 367225,43 | 8216571,57 | 599,91 |
| RAD-ALT17-C09-02 | 367223,85 | 8216585,68 | 599,89 |
| RAD-ALT17-C09-03 | 367227,38 | 8216597,53 | 599,90 |
| RAD-ALT17-C09-04 | 367232,44 | 8216606,42 | 599,91 |
| RAD-ALT17-C09-05 | 367240,99 | 8216614,26 | 599,90 |
| RAD-ALT17-C09-06 | 367245,96 | 8216619,42 | 599,91 |
| CURVA 10 | | | |
| RAD-ALT17-C10-01 | 367246,03 | 8216520,09 | 601,81 |
| RAD-ALT17-C10-02 | 367249,45 | 8216532,85 | 601,83 |
| RAD-ALT17-C10-03 | 367253,43 | 8216541,65 | 601,81 |
| RAD-ALT17-C10-04 | 367258,46 | 8216548,85 | 601,83 |
| RAD-ALT17-C10-05 | 367260,34 | 8216559,60 | 601,80 |
| RAD-ALT17-C10-06 | 367262,24 | 8216568,20 | 601,80 |
| CURVA 11 | | | |
| RAD-ALT17-C11-01 | 367267,19 | 8216492,07 | 603,31 |
| RAD-ALT17-C11-02 | 367269,99 | 8216504,00 | 603,31 |
| RAD-ALT17-C11-03 | 367273,53 | 8216514,03 | 603,31 |
| RAD-ALT17-C11-04 | 367274,98 | 8216524,47 | 603,33 |
| RAD-ALT17-C11-05 | 367278,05 | 8216533,36 | 603,29 |
| RAD-ALT17-C11-06 | 367282,76 | 8216541,96 | 603,32 |
| RAD-ALT17-C11-07 | 367290,12 | 8216549,56 | 603,30 |
| RAD-ALT17-C11-08 | 367296,90 | 8216556,50 | 603,31 |
| RAD-ALT17-C11-09 | 367304,38 | 8216562,95 | 603,32 |
| RAD-ALT17-C11-10 | 367313,35 | 8216568,03 | 603,30 |
| RAD-ALT17-C11-11 | 367322,62 | 8216571,88 | 603,31 |
| RAD-ALT17-C11-12 | 367332,75 | 8216572,03 | 603,29 |
| RAD-ALT17-C11-13 | 367342,16 | 8216572,51 | 603,29 |
| RAD-ALT17-C11-14 | 367351,72 | 8216572,44 | 603,31 |
| RAD-ALT17-C11-15 | 367360,79 | 8216574,44 | 603,31 |
| RAD-ALT17-C11-16 | 367369,52 | 8216577,72 | 603,31 |
| RAD-ALT17-C11-17 | 367378,08 | 8216577,95 | 603,32 |
| RAD-ALT17-C11-18 | 367384,89 | 8216581,30 | 603,28 |
| CURVA 12 | | | |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT17-C12-01 | 367393,73 | 8216562,24 | 605,62 |
| RAD-ALT17-C12-02 | 367383,18 | 8216555,14 | 605,60 |
| RAD-ALT17-C12-03 | 367376,22 | 8216548,29 | 605,60 |
| RAD-ALT17-C12-04 | 367369,38 | 8216541,18 | 605,62 |
| RAD-ALT17-C12-05 | 367363,53 | 8216532,93 | 605,58 |
| RAD-ALT17-C12-06 | 367353,95 | 8216529,50 | 605,62 |
| RAD-ALT17-C12-07 | 367343,41 | 8216527,45 | 605,62 |
| RAD-ALT17-C12-08 | 367333,41 | 8216523,49 | 605,57 |
| RAD-ALT17-C12-09 | 367324,20 | 8216516,24 | 605,61 |
| RAD-ALT17-C12-10 | 367316,58 | 8216509,96 | 605,62 |
| RAD-ALT17-C12-11 | 367305,95 | 8216505,72 | 605,59 |
| RAD-ALT17-C12-12 | 367296,99 | 8216497,41 | 605,57 |
| RAD-ALT17-C12-13 | 367292,46 | 8216487,82 | 605,59 |
| RAD-ALT17-C12-14 | 367289,91 | 8216476,96 | 605,62 |
| RAD-ALT17-C12-15 | 367288,24 | 8216463,55 | 605,61 |
| CURVA 13 | | | |
| RAD-ALT17-C13-01 | 367315,02 | 8216427,23 | 608,68 |
| RAD-ALT17-C13-02 | 367315,94 | 8216439,39 | 608,69 |
| RAD-ALT17-C13-03 | 367319,60 | 8216447,32 | 608,68 |
| RAD-ALT17-C13-04 | 367324,57 | 8216457,53 | 608,69 |
| RAD-ALT17-C13-05 | 367331,09 | 8216464,99 | 608,73 |
| RAD-ALT17-C13-06 | 367339,03 | 8216472,84 | 608,69 |
| RAD-ALT17-C13-07 | 367348,38 | 8216478,97 | 608,68 |
| RAD-ALT17-C13-08 | 367359,08 | 8216482,27 | 608,73 |
| RAD-ALT17-C13-09 | 367367,35 | 8216489,76 | 608,71 |
| RAD-ALT17-C13-10 | 367371,15 | 8216499,28 | 608,68 |
| RAD-ALT17-C13-11 | 367377,90 | 8216504,86 | 608,68 |
| RAD-ALT17-C13-12 | 367385,34 | 8216509,95 | 608,73 |
| RAD-ALT17-C13-13 | 367395,94 | 8216512,14 | 608,72 |
| RAD-ALT17-C13-14 | 367404,89 | 8216520,10 | 608,70 |
| RAD-ALT17-C13-15 | 367415,23 | 8216521,17 | 608,70 |
| CURVA 14 | | | |
| RAD-ALT17-C14-01 | 367432,94 | 8216486,90 | 612,01 |
| RAD-ALT17-C14-02 | 367423,86 | 8216482,21 | 612,05 |
| RAD-ALT17-C14-03 | 367416,26 | 8216477,35 | 612,02 |
| RAD-ALT17-C14-04 | 367406,31 | 8216473,18 | 612,00 |
| RAD-ALT17-C14-05 | 367398,36 | 8216470,04 | 612,00 |
| RAD-ALT17-C14-06 | 367392,23 | 8216463,59 | 611,99 |
| RAD-ALT17-C14-07 | 367385,52 | 8216457,25 | 611,98 |
| RAD-ALT17-C14-08 | 367379,01 | 8216450,38 | 612,00 |
| RAD-ALT17-C14-09 | 367371,31 | 8216444,57 | 612,02 |
| RAD-ALT17-C14-10 | 367364,57 | 8216437,56 | 612,02 |
| RAD-ALT17-C14-11 | 367359,62 | 8216428,87 | 612,00 |
| RAD-ALT17-C14-12 | 367355,36 | 8216419,03 | 612,05 |
| RAD-ALT17-C14-13 | 367347,61 | 8216412,87 | 612,01 |

| | | | |
|---|-------------|--------------|-----------------|
| RAD-ALT17-C14-14 | 367345,12 | 8216402,02 | 612,01 |
| RAD-ALT17-C14-15 | 367346,11 | 8216392,88 | 612,03 |
| CURVA 15 | | | |
| RAD-ALT17-C15-01 | 366759,85 | 8217402,01 | 547,80 |
| RAD-ALT17-C15-02 | 366740,00 | 8217361,47 | 547,80 |
| RAD-ALT17-C15-03 | 366731,94 | 8217351,65 | 547,79 |
| RAD-ALT17-C15-04 | 366728,93 | 8217342,03 | 547,81 |
| RAD-ALT17-C15-05 | 366727,28 | 8217333,24 | 547,79 |
| RAD-ALT17-C15-06 | 366718,64 | 8217327,16 | 547,79 |
| CURVA 16 | | | |
| RAD-ALT17-C16-06 | 366698,83 | 8217405,21 | 545,21 |
| RAD-ALT17-C16-05 | 366701,34 | 8217413,66 | 545,20 |
| RAD-ALT17-C16-04 | 366707,44 | 8217419,25 | 545,20 |
| RAD-ALT17-C16-03 | 366715,62 | 8217427,52 | 545,20 |
| RAD-ALT17-C16-02 | 366717,45 | 8217438,14 | 545,20 |
| RAD-ALT17-C16-01 | 366722,90 | 8217443,00 | 545,21 |
| RAD-ALT17-C17-06 | 366649,95 | 8217411,91 | 542,50 |
| RAD-ALT17-C17-05 | 366649,97 | 8217422,32 | 542,50 |
| RAD-ALT17-C17-04 | 366650,69 | 8217431,69 | 542,50 |
| RAD-ALT17-C17-03 | 366653,27 | 8217440,05 | 542,50 |
| RAD-ALT17-C17-02 | 366656,29 | 8217448,53 | 542,51 |
| RAD-ALT17-C17-01 | 366660,80 | 8217454,08 | 542,51 |
| Locação de Terraços - RAD-ALT-18 | | | |
| NOME | ESTE | NORTE | ALTITUDE |
| CURVA 01 | | | |
| RAD-ALT18-C01-01 | 367620,00 | 8216773,91 | 588,71 |
| RAD-ALT18-C01-02 | 367612,04 | 8216781,48 | 588,72 |
| RAD-ALT18-C01-03 | 367607,10 | 8216790,72 | 588,70 |
| RAD-ALT18-C01-04 | 367600,28 | 8216800,09 | 588,70 |
| RAD-ALT18-C01-05 | 367597,92 | 8216810,10 | 588,71 |
| RAD-ALT18-C01-06 | 367589,91 | 8216813,99 | 588,72 |
| RAD-ALT18-C01-07 | 367581,47 | 8216815,90 | 588,68 |
| RAD-ALT18-C01-08 | 367571,60 | 8216821,50 | 588,69 |
| RAD-ALT18-C01-09 | 367559,84 | 8216825,63 | 588,70 |
| RAD-ALT18-C01-10 | 367549,41 | 8216828,48 | 588,68 |
| RAD-ALT18-C01-11 | 367542,90 | 8216832,34 | 588,71 |
| CURVA 02 | | | |
| RAD-ALT18-C02-01 | 367518,69 | 8216808,78 | 590,79 |
| RAD-ALT18-C02-02 | 367529,29 | 8216804,65 | 590,82 |
| RAD-ALT18-C02-03 | 367539,92 | 8216800,32 | 590,78 |
| RAD-ALT18-C02-04 | 367545,02 | 8216789,86 | 590,81 |
| RAD-ALT18-C02-05 | 367555,21 | 8216785,10 | 590,78 |
| RAD-ALT18-C02-06 | 367565,34 | 8216780,55 | 590,78 |
| RAD-ALT18-C02-07 | 367575,60 | 8216779,58 | 590,78 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT18-C02-08 | 367587,82 | 8216772,68 | 590,80 |
| RAD-ALT18-C02-09 | 367596,90 | 8216761,65 | 590,81 |
| RAD-ALT18-C02-10 | 367603,98 | 8216753,54 | 590,79 |
| RAD-ALT18-C02-11 | 367613,30 | 8216742,82 | 590,82 |
| RAD-ALT18-C02-12 | 367619,73 | 8216733,07 | 590,80 |
| RAD-ALT18-C02-13 | 367635,70 | 8216718,67 | 590,81 |
| CURVA 03 | | | |
| RAD-ALT18-C03-01 | 367648,30 | 8216672,88 | 592,80 |
| RAD-ALT18-C03-02 | 367642,26 | 8216679,54 | 592,82 |
| RAD-ALT18-C03-03 | 367634,72 | 8216683,86 | 592,81 |
| RAD-ALT18-C03-04 | 367625,10 | 8216688,31 | 592,82 |
| RAD-ALT18-C03-05 | 367616,74 | 8216692,48 | 592,82 |
| RAD-ALT18-C03-06 | 367609,04 | 8216703,34 | 592,81 |
| RAD-ALT18-C03-07 | 367601,13 | 8216713,44 | 592,81 |
| RAD-ALT18-C03-08 | 367592,98 | 8216719,63 | 592,82 |
| RAD-ALT18-C03-09 | 367585,02 | 8216726,01 | 592,82 |
| RAD-ALT18-C03-10 | 367574,83 | 8216730,37 | 592,82 |
| RAD-ALT18-C03-11 | 367566,23 | 8216736,03 | 592,81 |
| RAD-ALT18-C03-12 | 367557,62 | 8216742,02 | 592,79 |
| RAD-ALT18-C03-13 | 367547,42 | 8216744,68 | 592,79 |
| RAD-ALT18-C03-14 | 367538,09 | 8216749,08 | 592,78 |
| RAD-ALT18-C03-15 | 367529,86 | 8216754,94 | 592,82 |
| RAD-ALT18-C03-16 | 367520,70 | 8216760,92 | 592,79 |
| RAD-ALT18-C03-17 | 367509,49 | 8216766,93 | 592,79 |
| RAD-ALT18-C03-18 | 367495,16 | 8216766,99 | 592,80 |
| RAD-ALT18-C03-19 | 367481,23 | 8216762,25 | 592,79 |
| RAD-ALT18-C03-20 | 367471,77 | 8216754,22 | 592,79 |
| RAD-ALT18-C03-21 | 367467,24 | 8216747,12 | 592,81 |
| RAD-ALT18-C03-22 | 367455,50 | 8216740,22 | 592,82 |
| RAD-ALT18-C03-23 | 367446,70 | 8216736,27 | 592,79 |
| RAD-ALT18-C03-24 | 367437,07 | 8216727,98 | 592,80 |
| RAD-ALT18-C03-25 | 367432,11 | 8216719,28 | 592,80 |
| RAD-ALT18-C03-26 | 367425,28 | 8216709,47 | 592,79 |
| RAD-ALT18-C03-27 | 367419,88 | 8216697,93 | 592,82 |
| RAD-ALT18-C03-28 | 367415,90 | 8216692,32 | 592,79 |
| RAD-ALT18-C03-29 | 367408,18 | 8216683,07 | 592,82 |
| RAD-ALT18-C03-30 | 367399,19 | 8216677,70 | 592,80 |
| RAD-ALT18-C03-31 | 367390,36 | 8216671,21 | 592,82 |
| RAD-ALT18-C03-32 | 367380,06 | 8216667,73 | 592,81 |
| RAD-ALT18-C03-33 | 367370,02 | 8216665,95 | 592,82 |
| CURVA 04 | | | |
| RAD-ALT18-C04-01 | 367375,64 | 8216624,03 | 594,70 |
| RAD-ALT18-C04-02 | 367385,64 | 8216627,64 | 594,70 |
| RAD-ALT18-C04-03 | 367396,99 | 8216630,91 | 594,70 |
| RAD-ALT18-C04-04 | 367406,40 | 8216638,01 | 594,71 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT18-C04-05 | 367413,86 | 8216647,55 | 594,70 |
| RAD-ALT18-C04-06 | 367419,58 | 8216654,38 | 594,71 |
| RAD-ALT18-C04-07 | 367423,06 | 8216665,66 | 594,72 |
| RAD-ALT18-C04-08 | 367428,15 | 8216673,59 | 594,69 |
| RAD-ALT18-C04-09 | 367435,84 | 8216682,06 | 594,70 |
| RAD-ALT18-C04-10 | 367440,71 | 8216690,44 | 594,69 |
| RAD-ALT18-C04-11 | 367453,68 | 8216695,35 | 594,69 |
| RAD-ALT18-C04-12 | 367464,91 | 8216699,32 | 594,69 |
| RAD-ALT18-C04-13 | 367473,90 | 8216705,68 | 594,70 |
| RAD-ALT18-C04-14 | 367490,04 | 8216709,18 | 594,68 |
| RAD-ALT18-C04-15 | 367500,48 | 8216714,63 | 594,67 |
| RAD-ALT18-C04-16 | 367516,29 | 8216711,63 | 594,69 |
| RAD-ALT18-C04-17 | 367526,46 | 8216704,25 | 594,70 |
| RAD-ALT18-C04-18 | 367536,93 | 8216707,14 | 594,69 |
| RAD-ALT18-C04-19 | 367544,70 | 8216695,85 | 594,68 |
| CURVA 05 | | | |
| RAD-ALT18-C05-01 | 367504,53 | 8216666,90 | 596,22 |
| RAD-ALT18-C05-02 | 367518,29 | 8216666,43 | 596,20 |
| RAD-ALT18-C05-03 | 367531,82 | 8216664,28 | 596,22 |
| RAD-ALT18-C05-04 | 367544,56 | 8216659,74 | 596,22 |
| RAD-ALT18-C05-05 | 367556,29 | 8216659,03 | 596,19 |
| RAD-ALT18-C05-06 | 367567,91 | 8216659,95 | 596,22 |
| RAD-ALT18-C05-07 | 367587,71 | 8216649,88 | 596,20 |
| RAD-ALT18-C05-08 | 367598,33 | 8216645,06 | 596,21 |
| RAD-ALT18-C05-09 | 367611,26 | 8216645,72 | 596,20 |
| RAD-ALT18-C05-10 | 367619,64 | 8216639,60 | 596,22 |
| RAD-ALT18-C05-11 | 367631,50 | 8216635,19 | 596,22 |
| RAD-ALT18-C05-12 | 367641,20 | 8216628,89 | 596,21 |
| RAD-ALT18-C05-13 | 367650,56 | 8216623,51 | 596,19 |
| RAD-ALT18-C05-14 | 367658,64 | 8216617,19 | 596,20 |
| RAD-ALT18-C05-15 | 367670,05 | 8216612,66 | 596,23 |
| RAD-ALT18-C05-16 | 367491,61 | 8216666,27 | 596,22 |
| RAD-ALT18-C05-17 | 367480,22 | 8216663,82 | 596,22 |
| RAD-ALT18-C05-18 | 367470,17 | 8216659,94 | 596,20 |
| RAD-ALT18-C05-19 | 367457,87 | 8216660,60 | 596,19 |
| RAD-ALT18-C05-20 | 367447,62 | 8216658,96 | 596,20 |
| RAD-ALT18-C05-21 | 367438,44 | 8216651,15 | 596,22 |
| RAD-ALT18-C05-22 | 367433,45 | 8216635,35 | 596,21 |
| RAD-ALT18-C05-23 | 367426,95 | 8216627,15 | 596,20 |
| RAD-ALT18-C05-24 | 367419,63 | 8216619,28 | 596,21 |
| RAD-ALT18-C05-25 | 367409,74 | 8216613,44 | 596,19 |
| RAD-ALT18-C05-26 | 367399,29 | 8216607,96 | 596,22 |
| RAD-ALT18-C05-27 | 367390,11 | 8216597,45 | 596,19 |
| CURVA 06 | | | |
| RAD-ALT18-C06-01 | 367406,30 | 8216575,02 | 598,69 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT18-C06-02 | 367417,33 | 8216577,29 | 598,70 |
| RAD-ALT18-C06-03 | 367427,17 | 8216584,25 | 598,70 |
| RAD-ALT18-C06-04 | 367437,75 | 8216589,27 | 598,70 |
| RAD-ALT18-C06-05 | 367447,96 | 8216595,02 | 598,72 |
| RAD-ALT18-C06-06 | 367457,61 | 8216597,51 | 598,71 |
| RAD-ALT18-C06-07 | 367468,24 | 8216602,31 | 598,69 |
| RAD-ALT18-C06-08 | 367477,29 | 8216604,50 | 598,72 |
| RAD-ALT18-C06-09 | 367487,26 | 8216609,52 | 598,72 |
| RAD-ALT18-C06-10 | 367497,39 | 8216612,09 | 598,71 |
| RAD-ALT18-C06-11 | 367507,34 | 8216614,05 | 598,73 |
| RAD-ALT18-C06-12 | 367518,13 | 8216612,92 | 598,73 |
| RAD-ALT18-C06-13 | 367529,47 | 8216612,87 | 598,69 |
| RAD-ALT18-C06-14 | 367539,16 | 8216613,73 | 598,68 |
| RAD-ALT18-C06-15 | 367547,78 | 8216613,34 | 598,68 |
| RAD-ALT18-C06-16 | 367558,42 | 8216612,62 | 598,71 |
| RAD-ALT18-C06-17 | 367568,16 | 8216612,03 | 598,70 |
| RAD-ALT18-C06-18 | 367577,78 | 8216613,98 | 598,72 |
| RAD-ALT18-C06-19 | 367588,35 | 8216614,46 | 598,70 |
| RAD-ALT18-C06-20 | 367598,97 | 8216610,78 | 598,72 |
| RAD-ALT18-C06-21 | 367610,44 | 8216608,82 | 598,69 |
| RAD-ALT18-C06-22 | 367619,22 | 8216603,43 | 598,69 |
| RAD-ALT18-C06-23 | 367628,60 | 8216601,25 | 598,72 |
| RAD-ALT18-C06-24 | 367639,10 | 8216599,50 | 598,71 |
| RAD-ALT18-C06-25 | 367649,12 | 8216596,95 | 598,70 |
| RAD-ALT18-C06-26 | 367657,96 | 8216594,55 | 598,71 |
| RAD-ALT18-C06-27 | 367664,94 | 8216587,28 | 598,68 |
| RAD-ALT18-C06-28 | 367676,48 | 8216584,10 | 598,69 |
| CURVA 07 | | | |
| RAD-ALT18-C07-01 | 367673,49 | 8216543,01 | 601,41 |
| RAD-ALT18-C07-02 | 367663,06 | 8216553,61 | 601,41 |
| RAD-ALT18-C07-03 | 367654,75 | 8216561,02 | 601,41 |
| RAD-ALT18-C07-04 | 367645,45 | 8216562,74 | 601,40 |
| RAD-ALT18-C07-05 | 367634,91 | 8216564,06 | 601,40 |
| RAD-ALT18-C07-06 | 367625,86 | 8216566,35 | 601,39 |
| RAD-ALT18-C07-07 | 367613,98 | 8216566,86 | 601,38 |
| RAD-ALT18-C07-08 | 367603,56 | 8216565,38 | 601,42 |
| RAD-ALT18-C07-09 | 367595,07 | 8216563,12 | 601,40 |
| RAD-ALT18-C07-10 | 367584,55 | 8216564,17 | 601,40 |
| RAD-ALT18-C07-11 | 367573,72 | 8216564,38 | 601,41 |
| RAD-ALT18-C07-12 | 367563,92 | 8216564,76 | 601,41 |
| RAD-ALT18-C07-13 | 367553,19 | 8216568,35 | 601,42 |
| RAD-ALT18-C07-14 | 367542,20 | 8216571,96 | 601,42 |
| RAD-ALT18-C07-15 | 367532,49 | 8216572,86 | 601,40 |
| RAD-ALT18-C07-16 | 367523,74 | 8216571,19 | 601,40 |
| RAD-ALT18-C07-17 | 367510,80 | 8216566,62 | 601,39 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT18-C07-18 | 367499,52 | 8216563,60 | 601,39 |
| RAD-ALT18-C07-19 | 367489,56 | 8216560,79 | 601,39 |
| RAD-ALT18-C07-20 | 367480,04 | 8216559,41 | 601,40 |
| RAD-ALT18-C07-21 | 367470,93 | 8216559,33 | 601,40 |
| RAD-ALT18-C07-22 | 367460,27 | 8216559,30 | 601,44 |
| RAD-ALT18-C07-23 | 367449,43 | 8216557,79 | 601,40 |
| RAD-ALT18-C07-24 | 367436,72 | 8216560,70 | 600,42 |
| RAD-ALT18-C07-25 | 367426,14 | 8216554,91 | 600,40 |
| RAD-ALT18-C07-26 | 367415,08 | 8216551,54 | 600,40 |
| CURVA 08 | | | |
| RAD-ALT18-C08-01 | 367431,58 | 8216517,24 | 603,40 |
| RAD-ALT18-C08-02 | 367444,76 | 8216518,91 | 603,41 |
| RAD-ALT18-C08-03 | 367455,20 | 8216525,76 | 603,43 |
| RAD-ALT18-C08-04 | 367466,76 | 8216526,70 | 603,39 |
| RAD-ALT18-C08-05 | 367478,08 | 8216527,79 | 603,40 |
| RAD-ALT18-C08-06 | 367489,80 | 8216530,04 | 603,40 |
| RAD-ALT18-C08-07 | 367498,95 | 8216532,95 | 603,39 |
| RAD-ALT18-C08-08 | 367510,00 | 8216532,28 | 603,41 |
| RAD-ALT18-C08-09 | 367520,18 | 8216532,66 | 603,39 |
| RAD-ALT18-C08-10 | 367530,47 | 8216537,28 | 603,41 |
| RAD-ALT18-C08-11 | 367539,96 | 8216541,98 | 603,43 |
| RAD-ALT18-C08-12 | 367549,35 | 8216542,85 | 603,39 |
| RAD-ALT18-C08-13 | 367559,68 | 8216539,86 | 603,39 |
| RAD-ALT18-C08-14 | 367568,74 | 8216535,79 | 603,42 |
| RAD-ALT18-C08-15 | 367578,32 | 8216535,20 | 603,38 |
| RAD-ALT18-C08-16 | 367587,26 | 8216537,53 | 603,39 |
| RAD-ALT18-C08-17 | 367595,84 | 8216540,52 | 603,43 |
| RAD-ALT18-C08-18 | 367607,23 | 8216540,56 | 603,39 |
| RAD-ALT18-C08-19 | 367616,55 | 8216538,84 | 603,38 |
| RAD-ALT18-C08-20 | 367625,79 | 8216535,41 | 603,40 |
| RAD-ALT18-C08-21 | 367636,77 | 8216530,60 | 603,40 |
| RAD-ALT18-C08-22 | 367647,04 | 8216529,77 | 603,41 |
| RAD-ALT18-C08-23 | 367657,60 | 8216524,02 | 603,42 |
| RAD-ALT18-C08-24 | 367664,69 | 8216520,34 | 603,41 |
| RAD-ALT18-C08-25 | 367671,39 | 8216512,92 | 603,41 |
| RAD-ALT18-C08-26 | 367681,11 | 8216509,50 | 603,42 |
| RAD-ALT18-C08-27 | 367691,12 | 8216502,24 | 603,41 |
| RAD-ALT18-C08-28 | 367699,13 | 8216495,95 | 603,39 |
| CURVA 09 | | | |
| RAD-ALT18-C09-01 | 367448,10 | 8216481,27 | 606,38 |
| RAD-ALT18-C09-02 | 367457,78 | 8216483,20 | 606,43 |
| RAD-ALT18-C09-03 | 367467,48 | 8216486,41 | 606,41 |
| RAD-ALT18-C09-04 | 367478,11 | 8216490,16 | 606,40 |
| RAD-ALT18-C09-05 | 367490,87 | 8216489,22 | 606,40 |
| RAD-ALT18-C09-06 | 367502,71 | 8216490,69 | 606,40 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT18-C09-07 | 367511,40 | 8216494,30 | 606,40 |
| RAD-ALT18-C09-08 | 367520,89 | 8216497,40 | 606,38 |
| RAD-ALT18-C09-09 | 367530,79 | 8216498,25 | 606,42 |
| RAD-ALT18-C09-10 | 367542,29 | 8216499,16 | 606,39 |
| RAD-ALT18-C09-11 | 367551,75 | 8216499,95 | 606,41 |
| RAD-ALT18-C09-12 | 367561,60 | 8216500,62 | 606,40 |
| RAD-ALT18-C09-13 | 367571,23 | 8216502,66 | 606,40 |
| RAD-ALT18-C09-14 | 367581,96 | 8216504,88 | 606,39 |
| RAD-ALT18-C09-15 | 367592,27 | 8216504,20 | 606,40 |
| RAD-ALT18-C09-16 | 367602,37 | 8216502,30 | 606,39 |
| RAD-ALT18-C09-17 | 367614,28 | 8216499,01 | 606,40 |
| RAD-ALT18-C09-18 | 367624,25 | 8216494,52 | 606,42 |
| RAD-ALT18-C09-19 | 367634,79 | 8216491,55 | 606,41 |
| RAD-ALT18-C09-20 | 367646,52 | 8216490,88 | 606,41 |
| RAD-ALT18-C09-21 | 367656,30 | 8216483,46 | 606,40 |
| RAD-ALT18-C09-22 | 367665,91 | 8216478,02 | 606,40 |
| RAD-ALT18-C09-23 | 367674,98 | 8216475,02 | 606,42 |
| RAD-ALT18-C09-24 | 367682,66 | 8216470,23 | 606,39 |
| CURVA 10 | | | |
| RAD-ALT18-C10-01 | 367677,52 | 8216437,65 | 609,62 |
| RAD-ALT18-C10-02 | 367666,90 | 8216441,77 | 609,60 |
| RAD-ALT18-C10-03 | 367654,94 | 8216446,61 | 609,60 |
| RAD-ALT18-C10-04 | 367645,55 | 8216450,12 | 609,58 |
| RAD-ALT18-C10-05 | 367632,22 | 8216452,32 | 609,61 |
| RAD-ALT18-C10-06 | 367623,19 | 8216454,32 | 609,61 |
| RAD-ALT18-C10-07 | 367614,57 | 8216455,70 | 609,62 |
| RAD-ALT18-C10-08 | 367604,79 | 8216464,05 | 609,62 |
| RAD-ALT18-C10-09 | 367594,31 | 8216466,50 | 609,59 |
| RAD-ALT18-C10-10 | 367583,40 | 8216466,33 | 609,59 |
| RAD-ALT18-C10-11 | 367573,08 | 8216462,46 | 609,60 |
| RAD-ALT18-C10-12 | 367564,78 | 8216457,91 | 609,62 |
| RAD-ALT18-C10-13 | 367554,55 | 8216457,11 | 609,60 |
| RAD-ALT18-C10-14 | 367541,59 | 8216457,77 | 609,61 |
| RAD-ALT18-C10-15 | 367530,69 | 8216455,76 | 609,60 |
| RAD-ALT18-C10-16 | 367519,04 | 8216452,25 | 609,59 |
| RAD-ALT18-C10-17 | 367508,41 | 8216454,11 | 609,60 |
| RAD-ALT18-C10-18 | 367498,84 | 8216455,03 | 609,59 |
| RAD-ALT18-C10-19 | 367489,09 | 8216453,09 | 609,59 |
| RAD-ALT18-C10-20 | 367478,82 | 8216448,41 | 609,61 |
| RAD-ALT18-C10-21 | 367468,60 | 8216445,93 | 609,61 |
| CURVA 11 | | | |
| RAD-ALT18-C11-01 | 367484,27 | 8216412,35 | 613,41 |
| RAD-ALT18-C11-02 | 367493,11 | 8216415,04 | 613,40 |
| RAD-ALT18-C11-03 | 367499,93 | 8216412,74 | 613,40 |
| RAD-ALT18-C11-04 | 367513,72 | 8216410,51 | 613,41 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT18-C11-05 | 367522,50 | 8216411,16 | 613,42 |
| RAD-ALT18-C11-06 | 367534,87 | 8216413,68 | 613,41 |
| RAD-ALT18-C11-07 | 367544,32 | 8216412,89 | 613,41 |
| RAD-ALT18-C11-08 | 367554,80 | 8216413,06 | 613,43 |
| RAD-ALT18-C11-09 | 367566,03 | 8216415,28 | 613,38 |
| RAD-ALT18-C11-10 | 367575,30 | 8216417,85 | 613,41 |
| RAD-ALT18-C11-11 | 367586,84 | 8216416,58 | 613,41 |
| RAD-ALT18-C11-12 | 367597,64 | 8216417,30 | 613,42 |
| CURVA 12 | | | |
| RAD-ALT18-C12-01 | 367625,16 | 8216417,61 | 613,39 |
| RAD-ALT18-C12-02 | 367634,32 | 8216416,88 | 613,39 |
| RAD-ALT18-C12-03 | 367644,13 | 8216413,87 | 613,41 |
| RAD-ALT18-C12-04 | 367654,09 | 8216408,97 | 613,41 |
| RAD-ALT18-C12-05 | 367667,84 | 8216402,13 | 613,38 |
| RAD-ALT18-C12-06 | 367679,85 | 8216401,66 | 613,40 |
| CURVA 13 | | | |
| RAD-ALT18-C13-01 | 367675,58 | 8216366,33 | 617,20 |
| RAD-ALT18-C13-02 | 367662,82 | 8216367,82 | 617,21 |
| RAD-ALT18-C13-03 | 367653,20 | 8216369,03 | 617,21 |
| RAD-ALT18-C13-04 | 367644,00 | 8216371,12 | 617,22 |
| RAD-ALT18-C13-05 | 367635,50 | 8216374,18 | 617,22 |
| RAD-ALT18-C13-06 | 367623,15 | 8216372,35 | 617,21 |
| RAD-ALT18-C13-07 | 367613,82 | 8216373,15 | 617,20 |
| RAD-ALT18-C13-08 | 367605,30 | 8216376,40 | 617,23 |
| RAD-ALT18-C13-09 | 367595,99 | 8216378,61 | 617,18 |
| RAD-ALT18-C13-10 | 367583,56 | 8216381,81 | 617,21 |
| RAD-ALT18-C13-11 | 367573,81 | 8216382,49 | 617,20 |
| RAD-ALT18-C13-12 | 367563,70 | 8216381,60 | 617,20 |
| RAD-ALT18-C13-13 | 367553,35 | 8216379,92 | 617,23 |
| RAD-ALT18-C13-14 | 367543,95 | 8216378,39 | 617,21 |
| RAD-ALT18-C13-15 | 367533,89 | 8216377,58 | 617,22 |
| RAD-ALT18-C13-16 | 367523,27 | 8216378,40 | 617,20 |
| RAD-ALT18-C13-17 | 367512,84 | 8216382,03 | 617,20 |
| RAD-ALT18-C13-18 | 367505,34 | 8216379,35 | 617,20 |
| CURVA 14 | | | |
| RAD-ALT18-C14-01 | 367688,62 | 8216939,19 | 587,70 |
| RAD-ALT18-C14-02 | 367687,51 | 8216927,37 | 587,70 |
| RAD-ALT18-C14-03 | 367687,51 | 8216917,83 | 587,72 |
| RAD-ALT18-C14-04 | 367686,69 | 8216909,57 | 587,72 |
| RAD-ALT18-C14-05 | 367686,44 | 8216900,72 | 587,71 |
| RAD-ALT18-C14-06 | 367683,54 | 8216890,66 | 587,71 |
| RAD-ALT18-C14-07 | 367676,59 | 8216883,62 | 587,73 |
| RAD-ALT18-C14-08 | 367671,26 | 8216872,96 | 587,70 |
| RAD-ALT18-C14-09 | 367666,51 | 8216863,00 | 587,72 |
| RAD-ALT18-C14-10 | 367664,35 | 8216854,48 | 587,70 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT18-C14-11 | 367663,97 | 8216842,72 | 587,71 |
| RAD-ALT18-C14-12 | 367660,14 | 8216832,52 | 587,71 |
| RAD-ALT18-C14-13 | 367655,58 | 8216824,10 | 587,72 |
| CURVA 15 | | | |
| RAD-ALT18-C15-01 | 367670,70 | 8216782,73 | 589,70 |
| RAD-ALT18-C15-02 | 367675,26 | 8216794,02 | 589,70 |
| RAD-ALT18-C15-03 | 367680,75 | 8216804,26 | 589,72 |
| RAD-ALT18-C15-04 | 367683,98 | 8216817,01 | 589,72 |
| RAD-ALT18-C15-05 | 367687,24 | 8216830,67 | 589,72 |
| RAD-ALT18-C15-06 | 367691,85 | 8216838,50 | 589,71 |
| RAD-ALT18-C15-07 | 367694,09 | 8216848,70 | 589,71 |
| RAD-ALT18-C15-08 | 367698,96 | 8216858,73 | 589,70 |
| RAD-ALT18-C15-09 | 367702,50 | 8216866,69 | 589,71 |
| RAD-ALT18-C15-10 | 367707,39 | 8216875,78 | 589,71 |
| RAD-ALT18-C15-11 | 367713,02 | 8216883,39 | 589,74 |
| RAD-ALT18-C15-12 | 367708,30 | 8216896,46 | 589,71 |
| CURVA 16 | | | |
| RAD-ALT18-C16-01 | 367735,87 | 8216847,40 | 591,99 |
| RAD-ALT18-C16-02 | 367732,25 | 8216838,67 | 592,00 |
| RAD-ALT18-C16-03 | 367729,34 | 8216828,86 | 592,02 |
| RAD-ALT18-C16-04 | 367723,33 | 8216821,27 | 592,01 |
| RAD-ALT18-C16-05 | 367717,96 | 8216809,54 | 592,00 |
| RAD-ALT18-C16-06 | 367714,86 | 8216800,52 | 592,00 |
| RAD-ALT18-C16-07 | 367710,37 | 8216791,52 | 592,02 |
| RAD-ALT18-C16-08 | 367705,24 | 8216782,84 | 592,00 |
| RAD-ALT18-C16-09 | 367701,08 | 8216773,77 | 592,02 |
| RAD-ALT18-C16-10 | 367699,51 | 8216762,12 | 592,02 |
| CURVA 17 | | | |
| RAD-ALT18-C17-01 | 367769,25 | 8216782,11 | 595,02 |
| RAD-ALT18-C17-02 | 367761,94 | 8216774,38 | 595,01 |
| RAD-ALT18-C17-03 | 367755,58 | 8216764,12 | 595,02 |
| RAD-ALT18-C17-04 | 367748,15 | 8216753,71 | 595,03 |
| RAD-ALT18-C17-05 | 367740,88 | 8216743,81 | 595,03 |
| RAD-ALT18-C17-06 | 367732,12 | 8216735,10 | 595,01 |
| RAD-ALT18-C17-07 | 367727,91 | 8216723,51 | 594,99 |
| RAD-ALT18-C17-08 | 367726,60 | 8216709,84 | 594,99 |
| RAD-ALT18-C17-09 | 367728,28 | 8216697,96 | 595,02 |
| RAD-ALT18-C17-10 | 367729,35 | 8216689,20 | 595,03 |
| RAD-ALT18-C17-11 | 367730,22 | 8216677,97 | 595,02 |
| CURVA 18 | | | |
| RAD-ALT18-C18-01 | 367768,31 | 8216659,46 | 597,51 |
| RAD-ALT18-C18-02 | 367766,36 | 8216672,70 | 597,50 |
| RAD-ALT18-C18-03 | 367764,50 | 8216685,91 | 597,51 |
| RAD-ALT18-C18-04 | 367766,66 | 8216698,51 | 597,53 |
| RAD-ALT18-C18-05 | 367770,23 | 8216709,94 | 597,52 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT18-C18-06 | 367775,32 | 8216719,56 | 597,51 |
| RAD-ALT18-C18-07 | 367781,10 | 8216726,50 | 597,50 |
| RAD-ALT18-C18-08 | 367790,36 | 8216733,38 | 597,49 |
| CURVA 19 | | | |
| RAD-ALT18-C19-01 | 367809,89 | 8216705,34 | 599,60 |
| RAD-ALT18-C19-02 | 367803,37 | 8216697,54 | 599,63 |
| RAD-ALT18-C19-03 | 367798,84 | 8216687,58 | 599,61 |
| RAD-ALT18-C19-04 | 367793,40 | 8216679,21 | 599,60 |
| RAD-ALT18-C19-05 | 367791,32 | 8216669,10 | 599,61 |
| RAD-ALT18-C19-06 | 367790,05 | 8216660,14 | 599,62 |
| RAD-ALT18-C19-07 | 367790,12 | 8216650,11 | 599,60 |
| CURVA 20 | | | |
| RAD-ALT18-C20-01 | 367738,20 | 8216649,93 | 596,11 |
| RAD-ALT18-C20-02 | 367729,85 | 8216642,93 | 596,09 |
| RAD-ALT18-C20-03 | 367722,89 | 8216636,15 | 596,13 |
| RAD-ALT18-C20-04 | 367716,08 | 8216629,60 | 596,10 |
| RAD-ALT18-C20-05 | 367708,81 | 8216622,55 | 596,13 |
| RAD-ALT18-C20-06 | 367701,65 | 8216616,61 | 596,10 |
| CURVA 21 | | | |
| RAD-ALT18-C21-01 | 367712,15 | 8216575,37 | 599,03 |
| RAD-ALT18-C21-02 | 367723,13 | 8216581,80 | 599,02 |
| RAD-ALT18-C21-03 | 367729,70 | 8216588,55 | 599,00 |
| RAD-ALT18-C21-04 | 367735,60 | 8216596,56 | 599,01 |
| RAD-ALT18-C21-05 | 367742,10 | 8216605,10 | 599,01 |
| RAD-ALT18-C21-06 | 367747,99 | 8216614,72 | 598,98 |
| RAD-ALT18-C21-07 | 367756,10 | 8216618,93 | 598,99 |
| RAD-ALT18-C21-08 | 367765,53 | 8216623,04 | 598,99 |
| RAD-ALT18-C21-09 | 367773,94 | 8216624,30 | 598,99 |
| CURVA 22 | | | |
| RAD-ALT18-C22-01 | 367837,85 | 8216645,49 | 603,02 |
| RAD-ALT18-C22-02 | 367831,95 | 8216635,05 | 603,01 |
| RAD-ALT18-C22-03 | 367828,53 | 8216619,71 | 602,98 |
| RAD-ALT18-C22-04 | 367826,28 | 8216610,69 | 603,00 |
| RAD-ALT18-C22-05 | 367823,35 | 8216599,47 | 603,00 |
| CURVA 23 | | | |
| RAD-ALT18-C23-01 | 367802,36 | 8216588,71 | 603,02 |
| RAD-ALT18-C23-02 | 367793,20 | 8216582,80 | 603,03 |
| RAD-ALT18-C23-03 | 367786,07 | 8216574,57 | 602,98 |
| RAD-ALT18-C23-04 | 367778,00 | 8216569,53 | 603,00 |
| RAD-ALT18-C23-05 | 367772,24 | 8216563,77 | 603,02 |
| CURVA 24 | | | |
| RAD-ALT18-C24-01 | 367796,99 | 8216531,99 | 606,51 |
| RAD-ALT18-C24-02 | 367805,99 | 8216538,03 | 606,49 |
| RAD-ALT18-C24-03 | 367814,29 | 8216544,38 | 606,49 |
| RAD-ALT18-C24-04 | 367823,81 | 8216548,76 | 606,50 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT18-C24-05 | 367833,48 | 8216553,57 | 606,52 |
| RAD-ALT18-C24-06 | 367842,63 | 8216560,00 | 606,52 |
| RAD-ALT18-C24-07 | 367850,29 | 8216568,46 | 606,49 |
| RAD-ALT18-C24-08 | 367853,76 | 8216575,79 | 606,51 |
| RAD-ALT18-C24-09 | 367856,61 | 8216583,21 | 606,52 |
| RAD-ALT18-C24-10 | 367860,43 | 8216592,31 | 606,52 |
| RAD-ALT18-C24-11 | 367865,94 | 8216599,80 | 606,51 |
| CURVA 25 | | | |
| RAD-ALT18-C25-01 | 367887,74 | 8216552,35 | 610,72 |
| RAD-ALT18-C25-02 | 367878,90 | 8216541,56 | 610,69 |
| RAD-ALT18-C25-03 | 367870,88 | 8216531,48 | 610,71 |
| RAD-ALT18-C25-04 | 367864,80 | 8216518,11 | 610,71 |
| RAD-ALT18-C25-05 | 367853,50 | 8216513,52 | 610,71 |
| RAD-ALT18-C25-06 | 367844,23 | 8216507,07 | 610,70 |
| RAD-ALT18-C25-07 | 367836,89 | 8216499,48 | 610,70 |
| RAD-ALT18-C25-08 | 367829,44 | 8216493,42 | 610,71 |
| CURVA 26 | | | |
| RAD-ALT18-C26-01 | 367942,15 | 8216753,54 | 595,10 |
| RAD-ALT18-C26-02 | 367930,83 | 8216753,47 | 595,10 |
| RAD-ALT18-C26-03 | 367920,90 | 8216748,80 | 595,09 |
| RAD-ALT18-C26-04 | 367911,09 | 8216746,06 | 595,10 |
| RAD-ALT18-C26-05 | 367900,75 | 8216748,10 | 595,12 |
| RAD-ALT18-C26-06 | 367888,57 | 8216751,46 | 595,11 |
| CURVA 27 | | | |
| RAD-ALT18-C27-01 | 367860,59 | 8216728,18 | 597,12 |
| RAD-ALT18-C27-02 | 367870,30 | 8216726,59 | 597,11 |
| RAD-ALT18-C27-03 | 367879,80 | 8216726,70 | 597,10 |
| RAD-ALT18-C27-04 | 367889,71 | 8216725,95 | 597,11 |
| RAD-ALT18-C27-05 | 367900,19 | 8216723,75 | 597,10 |
| RAD-ALT18-C27-06 | 367910,68 | 8216721,70 | 597,11 |
| RAD-ALT18-C27-07 | 367920,37 | 8216722,01 | 597,12 |
| RAD-ALT18-C27-08 | 367929,36 | 8216723,62 | 597,10 |
| RAD-ALT18-C27-09 | 367937,24 | 8216723,96 | 597,11 |
| RAD-ALT18-C27-10 | 367941,45 | 8216712,89 | 597,12 |
| RAD-ALT18-C27-11 | 367952,31 | 8216707,14 | 597,12 |
| RAD-ALT18-C27-12 | 367960,81 | 8216704,97 | 597,10 |
| RAD-ALT18-C27-13 | 367966,65 | 8216716,14 | 597,11 |
| RAD-ALT18-C27-14 | 367970,58 | 8216724,90 | 597,10 |
| RAD-ALT18-C27-15 | 367976,92 | 8216728,37 | 597,10 |
| CURVA 28 | | | |
| RAD-ALT18-C28-01 | 367992,46 | 8216697,39 | 599,91 |
| RAD-ALT18-C28-02 | 367983,01 | 8216692,62 | 599,89 |
| RAD-ALT18-C28-03 | 367978,50 | 8216681,99 | 599,90 |
| RAD-ALT18-C28-04 | 367973,15 | 8216670,14 | 599,88 |
| RAD-ALT18-C28-05 | 367961,63 | 8216676,54 | 599,89 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT18-C28-06 | 367950,57 | 8216679,48 | 599,90 |
| RAD-ALT18-C28-07 | 367940,31 | 8216683,84 | 599,92 |
| RAD-ALT18-C28-08 | 367929,47 | 8216683,67 | 599,87 |
| RAD-ALT18-C28-09 | 367919,95 | 8216683,77 | 599,91 |
| RAD-ALT18-C28-10 | 367908,73 | 8216685,32 | 599,90 |
| RAD-ALT18-C28-11 | 367899,36 | 8216686,94 | 599,88 |
| RAD-ALT18-C28-12 | 367889,73 | 8216687,86 | 599,88 |
| RAD-ALT18-C28-13 | 367880,52 | 8216687,82 | 599,90 |
| RAD-ALT18-C28-14 | 367869,78 | 8216685,44 | 599,91 |
| RAD-ALT18-C28-15 | 367862,31 | 8216678,85 | 599,90 |
| RAD-ALT18-C28-16 | 367853,13 | 8216672,47 | 599,89 |
| CURVA 29 | | | |
| RAD-ALT18-C29-01 | 367873,29 | 8216630,39 | 602,20 |
| RAD-ALT18-C29-02 | 367879,81 | 8216636,14 | 602,20 |
| RAD-ALT18-C29-03 | 367887,70 | 8216646,16 | 602,20 |
| RAD-ALT18-C29-04 | 367895,59 | 8216650,71 | 602,19 |
| RAD-ALT18-C29-05 | 367904,92 | 8216653,30 | 602,20 |
| RAD-ALT18-C29-06 | 367915,24 | 8216654,85 | 602,18 |
| RAD-ALT18-C29-07 | 367924,85 | 8216657,43 | 602,19 |
| RAD-ALT18-C29-08 | 367936,03 | 8216659,96 | 602,20 |
| RAD-ALT18-C29-09 | 367945,68 | 8216661,55 | 602,22 |
| RAD-ALT18-C29-10 | 367954,70 | 8216658,82 | 602,21 |
| RAD-ALT18-C29-11 | 367960,50 | 8216652,88 | 602,21 |
| RAD-ALT18-C29-12 | 367970,34 | 8216646,61 | 602,18 |
| RAD-ALT18-C29-13 | 367980,97 | 8216644,39 | 602,20 |
| RAD-ALT18-C29-14 | 367989,04 | 8216651,78 | 602,19 |
| RAD-ALT18-C29-15 | 367994,56 | 8216660,23 | 602,22 |
| RAD-ALT18-C29-16 | 368000,25 | 8216669,37 | 602,19 |
| CURVA 30 | | | |
| RAD-ALT18-C30-01 | 368018,00 | 8216635,15 | 604,50 |
| RAD-ALT18-C30-02 | 368005,45 | 8216631,02 | 604,50 |
| RAD-ALT18-C30-03 | 367995,55 | 8216628,09 | 604,50 |
| RAD-ALT18-C30-04 | 367987,00 | 8216623,45 | 604,50 |
| RAD-ALT18-C30-05 | 367973,96 | 8216622,15 | 604,50 |
| RAD-ALT18-C30-06 | 367961,84 | 8216626,64 | 604,49 |
| RAD-ALT18-C30-07 | 367952,22 | 8216628,60 | 604,51 |
| RAD-ALT18-C30-08 | 367940,03 | 8216629,21 | 604,51 |
| RAD-ALT18-C30-09 | 367930,61 | 8216627,10 | 604,49 |
| RAD-ALT18-C30-10 | 367920,24 | 8216625,02 | 604,51 |
| RAD-ALT18-C30-11 | 367909,62 | 8216622,85 | 604,51 |
| RAD-ALT18-C30-12 | 367907,90 | 8216611,96 | 604,52 |
| RAD-ALT18-C30-13 | 367901,08 | 8216605,03 | 604,53 |
| RAD-ALT18-C30-14 | 367893,07 | 8216594,78 | 605,51 |
| RAD-ALT18-C31-01 | 368110,98 | 8216872,57 | 602,01 |
| CURVA 31 | | | |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT18-C31-02 | 368114,89 | 8216881,19 | 602,03 |
| RAD-ALT18-C31-03 | 368118,66 | 8216887,70 | 602,02 |
| RAD-ALT18-C31-04 | 368123,53 | 8216894,56 | 602,02 |
| RAD-ALT18-C31-05 | 368130,75 | 8216902,28 | 602,00 |
| RAD-ALT18-C31-06 | 368137,16 | 8216909,47 | 602,00 |
| RAD-ALT18-C31-07 | 368143,50 | 8216916,35 | 601,98 |
| RAD-ALT18-C31-08 | 368148,06 | 8216922,80 | 602,00 |
| RAD-ALT18-C31-09 | 368152,61 | 8216928,78 | 602,01 |
| RAD-ALT18-C31-10 | 368157,29 | 8216933,91 | 601,99 |
| RAD-ALT18-C31-11 | 368163,73 | 8216940,29 | 601,98 |
| RAD-ALT18-C31-12 | 368171,02 | 8216947,97 | 602,01 |
| RAD-ALT18-C31-13 | 368177,48 | 8216953,97 | 601,99 |
| RAD-ALT18-C31-14 | 368183,69 | 8216956,39 | 601,99 |
| RAD-ALT18-C31-15 | 368195,44 | 8216959,20 | 601,98 |
| CURVA 32 | | | |
| RAD-ALT18-C32-01 | 368204,22 | 8216980,67 | 602,03 |
| RAD-ALT18-C32-02 | 368208,60 | 8216989,27 | 602,02 |
| RAD-ALT18-C32-03 | 368206,30 | 8217000,91 | 601,98 |
| RAD-ALT18-C32-04 | 368208,27 | 8217008,37 | 602,02 |
| RAD-ALT18-C32-05 | 368213,72 | 8217013,15 | 602,03 |
| RAD-ALT18-C32-06 | 368216,61 | 8217021,33 | 602,03 |
| RAD-ALT18-C32-07 | 368219,93 | 8217032,03 | 602,05 |
| CURVA 33 | | | |
| RAD-ALT18-C33-01 | 368183,86 | 8217063,51 | 597,50 |
| RAD-ALT18-C33-02 | 368178,78 | 8217056,05 | 597,49 |
| RAD-ALT18-C33-03 | 368173,13 | 8217048,33 | 597,50 |
| RAD-ALT18-C33-04 | 368169,44 | 8217038,08 | 597,49 |
| RAD-ALT18-C33-05 | 368169,24 | 8217024,60 | 597,49 |
| RAD-ALT18-C33-06 | 368168,57 | 8217014,97 | 597,51 |
| RAD-ALT18-C33-07 | 368165,98 | 8217005,75 | 597,50 |
| RAD-ALT18-C33-08 | 368155,48 | 8217002,43 | 597,52 |
| RAD-ALT18-C33-09 | 368144,55 | 8217001,04 | 597,51 |
| RAD-ALT18-C33-10 | 368135,80 | 8216994,56 | 597,49 |
| RAD-ALT18-C33-11 | 368129,85 | 8216989,52 | 597,49 |
| RAD-ALT18-C33-12 | 368123,15 | 8216981,72 | 597,52 |
| RAD-ALT18-C33-13 | 368115,06 | 8216975,61 | 597,50 |
| RAD-ALT18-C33-14 | 368108,20 | 8216966,18 | 597,49 |
| RAD-ALT18-C33-15 | 368104,48 | 8216956,56 | 597,51 |
| RAD-ALT18-C33-16 | 368099,11 | 8216948,49 | 597,50 |
| RAD-ALT18-C33-17 | 368089,87 | 8216941,51 | 597,51 |
| RAD-ALT18-C33-18 | 368083,45 | 8216927,61 | 597,52 |
| RAD-ALT18-C33-19 | 368076,99 | 8216921,60 | 597,49 |
| RAD-ALT18-C33-20 | 368070,35 | 8216914,86 | 597,52 |
| RAD-ALT18-C33-21 | 368063,44 | 8216906,20 | 597,52 |
| CURVA 34 | | | |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT18-C34-01 | 368134,77 | 8217112,70 | 592,61 |
| RAD-ALT18-C34-02 | 368130,62 | 8217102,94 | 592,60 |
| RAD-ALT18-C34-03 | 368132,63 | 8217089,09 | 592,59 |
| RAD-ALT18-C34-04 | 368127,72 | 8217074,45 | 592,59 |
| RAD-ALT18-C34-05 | 368118,31 | 8217066,44 | 592,62 |
| RAD-ALT18-C34-06 | 368103,72 | 8217068,44 | 592,58 |
| RAD-ALT18-C34-07 | 368101,36 | 8217058,36 | 592,62 |
| RAD-ALT18-C34-08 | 368097,26 | 8217042,96 | 592,59 |
| RAD-ALT18-C34-09 | 368091,59 | 8217029,88 | 592,60 |
| RAD-ALT18-C34-10 | 368082,83 | 8217022,03 | 592,61 |
| RAD-ALT18-C34-11 | 368073,34 | 8217010,57 | 592,61 |
| RAD-ALT18-C34-12 | 368062,79 | 8217002,76 | 592,61 |
| RAD-ALT18-C34-13 | 368053,30 | 8216992,29 | 592,61 |

CURVA 35

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C35-01 | 368025,12 | 8216993,55 | 600,98 |
| RAD-ALT21-C35-02 | 368031,43 | 8217002,82 | 600,98 |
| RAD-ALT21-C35-03 | 368040,06 | 8217011,16 | 600,99 |
| RAD-ALT21-C35-04 | 368048,26 | 8217018,43 | 600,99 |
| RAD-ALT21-C35-05 | 368056,73 | 8217025,90 | 601,01 |

CURVA 36

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT18-C36-01 | 368006,30 | 8217042,80 | 597,41 |
| RAD-ALT18-C36-02 | 368013,88 | 8217050,56 | 597,41 |
| RAD-ALT18-C36-03 | 368027,89 | 8217055,69 | 597,40 |
| RAD-ALT18-C36-04 | 368034,94 | 8217064,01 | 597,41 |
| RAD-ALT18-C36-05 | 368043,28 | 8217072,60 | 597,40 |
| RAD-ALT18-C36-06 | 368051,96 | 8217079,60 | 597,39 |
| RAD-ALT18-C36-07 | 368056,62 | 8217089,76 | 597,40 |
| RAD-ALT18-C36-08 | 368058,45 | 8217101,97 | 597,38 |
| RAD-ALT18-C36-09 | 368060,24 | 8217113,77 | 597,40 |

Locação de Terraços - RAD-ALT-19

| NOME | ESTE | NORTE | ALTITUDE |
|------------------|-----------|------------|----------|
| CURVA 01 | | | |
| RAD-ALT19-C01-01 | 367825,20 | 8217900,51 | 575,60 |
| RAD-ALT19-C01-02 | 367835,17 | 8217887,82 | 575,60 |
| RAD-ALT19-C01-03 | 367845,62 | 8217880,78 | 575,63 |
| RAD-ALT19-C01-04 | 367853,38 | 8217875,18 | 575,59 |
| RAD-ALT19-C01-05 | 367860,65 | 8217861,05 | 575,62 |
| RAD-ALT19-C01-06 | 367862,62 | 8217852,07 | 575,62 |
| RAD-ALT19-C01-07 | 367863,59 | 8217840,87 | 575,62 |
| RAD-ALT19-C01-08 | 367869,46 | 8217830,84 | 575,61 |
| CURVA 02 | | | |
| RAD-ALT19-C02-01 | 367887,18 | 8217857,70 | 577,60 |
| RAD-ALT19-C02-02 | 367881,33 | 8217871,07 | 577,60 |
| RAD-ALT19-C02-03 | 367875,88 | 8217881,03 | 577,61 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT19-C02-04 | 367868,58 | 8217887,65 | 577,62 |
| CURVA 03 | | | |
| RAD-ALT19-C03-01 | 367998,97 | 8217778,11 | 579,01 |
| RAD-ALT19-C03-02 | 367988,10 | 8217787,34 | 579,02 |
| RAD-ALT19-C03-03 | 367975,38 | 8217794,64 | 578,99 |
| RAD-ALT19-C03-04 | 367967,25 | 8217809,34 | 579,01 |
| RAD-ALT19-C03-05 | 367958,89 | 8217815,28 | 578,99 |
| RAD-ALT19-C03-06 | 367945,45 | 8217814,77 | 579,03 |
| RAD-ALT19-C03-07 | 367936,77 | 8217821,07 | 578,98 |
| RAD-ALT19-C03-08 | 367929,59 | 8217832,54 | 579,00 |
| RAD-ALT19-C03-09 | 367924,01 | 8217844,93 | 579,00 |
| RAD-ALT19-C03-10 | 367916,45 | 8217849,44 | 579,02 |
| CURVA 04 | | | |
| RAD-ALT19-C04-01 | 367941,59 | 8217875,33 | 581,00 |
| RAD-ALT19-C04-02 | 367951,54 | 8217870,43 | 581,00 |
| RAD-ALT19-C04-03 | 367963,66 | 8217867,72 | 580,97 |
| RAD-ALT19-C04-04 | 367967,21 | 8217860,61 | 581,00 |
| RAD-ALT19-C04-05 | 367957,53 | 8217851,71 | 581,01 |
| RAD-ALT19-C04-06 | 367964,77 | 8217842,93 | 581,00 |
| RAD-ALT19-C04-07 | 367972,12 | 8217839,00 | 580,99 |
| RAD-ALT19-C04-08 | 367982,95 | 8217833,05 | 580,99 |
| RAD-ALT19-C04-09 | 367994,92 | 8217827,04 | 581,00 |
| RAD-ALT19-C04-10 | 368001,99 | 8217821,25 | 581,00 |
| RAD-ALT19-C04-11 | 368027,55 | 8217803,46 | 581,03 |
| CURVA 05 | | | |
| RAD-ALT19-C05-01 | 367901,71 | 8217700,87 | 578,50 |
| RAD-ALT19-C05-02 | 367909,81 | 8217713,28 | 578,49 |
| RAD-ALT19-C05-03 | 367917,98 | 8217720,54 | 578,48 |
| RAD-ALT19-C05-04 | 367929,93 | 8217721,89 | 578,52 |
| RAD-ALT19-C05-05 | 367942,27 | 8217727,37 | 578,52 |
| RAD-ALT19-C05-06 | 367951,99 | 8217731,49 | 578,51 |
| RAD-ALT19-C05-07 | 367962,30 | 8217735,92 | 578,53 |
| RAD-ALT19-C05-08 | 367976,06 | 8217739,40 | 578,49 |
| RAD-ALT19-C05-09 | 367987,34 | 8217740,14 | 578,53 |
| RAD-ALT19-C05-10 | 367999,99 | 8217737,77 | 578,49 |
| RAD-ALT19-C05-11 | 368013,25 | 8217739,10 | 578,53 |
| CURVA 06 | | | |
| RAD-ALT19-C06-01 | 367932,58 | 8217670,26 | 580,50 |
| RAD-ALT19-C06-02 | 367940,44 | 8217681,25 | 580,49 |
| RAD-ALT19-C06-03 | 367948,41 | 8217688,51 | 580,51 |
| RAD-ALT19-C06-04 | 367959,39 | 8217694,70 | 580,50 |
| RAD-ALT19-C06-05 | 367971,01 | 8217699,22 | 580,52 |
| RAD-ALT19-C06-06 | 367980,76 | 8217702,30 | 580,50 |
| RAD-ALT19-C06-07 | 367992,12 | 8217706,42 | 580,51 |
| RAD-ALT19-C06-08 | 368004,65 | 8217712,14 | 580,49 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT19-C06-09 | 368017,10 | 8217712,75 | 580,50 |
| RAD-ALT19-C06-10 | 368029,04 | 8217714,46 | 580,48 |
| RAD-ALT19-C06-11 | 368038,19 | 8217711,45 | 580,52 |
| RAD-ALT19-C06-12 | 368049,42 | 8217709,98 | 580,51 |
| CURVA 07 | | | |
| RAD-ALT19-C07-01 | 368066,01 | 8217688,67 | 582,51 |
| RAD-ALT19-C07-02 | 368053,55 | 8217681,78 | 582,50 |
| RAD-ALT19-C07-03 | 368043,13 | 8217680,19 | 582,50 |
| RAD-ALT19-C07-04 | 368035,21 | 8217678,52 | 582,49 |
| RAD-ALT19-C07-05 | 368020,77 | 8217678,86 | 582,50 |
| RAD-ALT19-C07-06 | 368009,36 | 8217677,10 | 582,49 |
| RAD-ALT19-C07-07 | 367998,09 | 8217670,80 | 582,54 |
| RAD-ALT19-C07-08 | 367990,06 | 8217663,52 | 582,49 |
| RAD-ALT19-C07-09 | 367978,65 | 8217657,14 | 582,51 |
| RAD-ALT19-C07-10 | 367968,73 | 8217646,82 | 582,48 |
| RAD-ALT19-C07-11 | 367964,15 | 8217637,30 | 582,48 |
| CURVA 08 | | | |
| RAD-ALT19-C08-01 | 367983,90 | 8217613,37 | 584,58 |
| RAD-ALT19-C08-02 | 367996,48 | 8217617,32 | 584,60 |
| RAD-ALT19-C08-03 | 368007,90 | 8217628,45 | 584,62 |
| RAD-ALT19-C08-04 | 368018,24 | 8217635,68 | 584,59 |
| RAD-ALT19-C08-05 | 368026,54 | 8217644,50 | 584,60 |
| RAD-ALT19-C08-06 | 368040,55 | 8217645,55 | 584,58 |
| RAD-ALT19-C08-07 | 368050,99 | 8217644,80 | 584,62 |
| RAD-ALT19-C08-08 | 368059,29 | 8217650,52 | 584,60 |
| RAD-ALT19-C08-09 | 368069,46 | 8217643,42 | 584,64 |
| RAD-ALT19-C08-10 | 368078,20 | 8217639,42 | 584,62 |
| RAD-ALT19-C08-11 | 368091,38 | 8217642,58 | 584,62 |
| RAD-ALT19-C08-12 | 368100,30 | 8217655,56 | 584,59 |
| RAD-ALT19-C08-13 | 368110,86 | 8217656,23 | 584,61 |
| CURVA 09 | | | |
| RAD-ALT19-C09-01 | 368120,67 | 8217610,68 | 586,91 |
| RAD-ALT19-C09-02 | 368106,27 | 8217611,34 | 586,89 |
| RAD-ALT19-C09-03 | 368096,63 | 8217613,45 | 586,93 |
| RAD-ALT19-C09-04 | 368086,99 | 8217611,02 | 586,89 |
| RAD-ALT19-C09-05 | 368079,25 | 8217606,89 | 586,92 |
| RAD-ALT19-C09-06 | 368068,29 | 8217605,93 | 586,92 |
| RAD-ALT19-C09-07 | 368058,64 | 8217605,93 | 586,88 |
| RAD-ALT19-C09-08 | 368047,87 | 8217602,84 | 586,89 |
| RAD-ALT19-C09-09 | 368037,57 | 8217593,74 | 586,88 |
| RAD-ALT19-C09-10 | 368030,02 | 8217585,53 | 586,90 |
| RAD-ALT19-C09-11 | 368029,95 | 8217572,48 | 586,90 |
| CURVA 10 | | | |
| RAD-ALT19-C10-01 | 368061,71 | 8217537,17 | 588,90 |
| RAD-ALT19-C10-02 | 368069,85 | 8217543,85 | 588,89 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT19-C10-03 | 368080,83 | 8217550,79 | 588,91 |
| RAD-ALT19-C10-04 | 368090,04 | 8217556,05 | 588,91 |
| RAD-ALT19-C10-05 | 368099,94 | 8217560,98 | 588,92 |
| RAD-ALT19-C10-06 | 368110,55 | 8217567,24 | 588,89 |
| RAD-ALT19-C10-07 | 368121,11 | 8217574,18 | 588,93 |
| RAD-ALT19-C10-08 | 368131,36 | 8217573,18 | 588,89 |
| RAD-ALT19-C10-09 | 368143,07 | 8217571,53 | 588,91 |
| RAD-ALT19-C10-10 | 368152,47 | 8217574,49 | 588,92 |
| CURVA 11 | | | |
| RAD-ALT19-C11-01 | 368098,34 | 8217492,72 | 591,00 |
| RAD-ALT19-C11-02 | 368111,72 | 8217500,95 | 591,02 |
| RAD-ALT19-C11-03 | 368117,66 | 8217513,66 | 591,00 |
| RAD-ALT19-C11-04 | 368127,31 | 8217521,67 | 590,99 |
| RAD-ALT19-C11-05 | 368140,45 | 8217525,68 | 590,98 |
| RAD-ALT19-C11-06 | 368150,17 | 8217532,48 | 591,01 |
| RAD-ALT19-C11-07 | 368160,34 | 8217534,59 | 590,99 |
| RAD-ALT19-C11-08 | 368170,34 | 8217541,35 | 591,03 |
| RAD-ALT19-C11-09 | 368181,39 | 8217542,88 | 591,03 |
| RAD-ALT19-C11-10 | 368194,42 | 8217554,83 | 591,01 |
| CURVA 12 | | | |
| RAD-ALT19-C12-01 | 368223,41 | 8217533,42 | 592,99 |
| RAD-ALT19-C12-02 | 368215,12 | 8217524,97 | 592,98 |
| RAD-ALT19-C12-03 | 368208,67 | 8217515,27 | 592,98 |
| RAD-ALT19-C12-04 | 368200,88 | 8217507,07 | 593,03 |
| RAD-ALT19-C12-05 | 368189,66 | 8217502,38 | 592,99 |
| RAD-ALT19-C12-06 | 368181,10 | 8217496,24 | 592,98 |
| RAD-ALT19-C12-07 | 368172,12 | 8217491,15 | 592,99 |
| RAD-ALT19-C12-08 | 368164,66 | 8217483,60 | 592,99 |
| RAD-ALT19-C12-09 | 368158,61 | 8217475,31 | 593,00 |
| RAD-ALT19-C12-10 | 368151,95 | 8217466,49 | 593,02 |
| RAD-ALT19-C12-11 | 368145,75 | 8217458,69 | 593,02 |
| RAD-ALT19-C12-12 | 368141,35 | 8217448,89 | 593,00 |
| CURVA 13 | | | |
| RAD-ALT19-C13-01 | 368292,57 | 8217363,25 | 598,69 |
| RAD-ALT19-C13-02 | 368295,81 | 8217375,93 | 598,71 |
| RAD-ALT19-C13-03 | 368302,30 | 8217385,78 | 598,72 |
| RAD-ALT19-C13-04 | 368305,42 | 8217400,87 | 598,70 |
| RAD-ALT19-C13-05 | 368305,10 | 8217416,80 | 598,69 |
| RAD-ALT19-C13-06 | 368311,74 | 8217426,50 | 598,72 |
| RAD-ALT19-C13-07 | 368317,25 | 8217439,59 | 598,72 |
| RAD-ALT19-C13-08 | 368324,37 | 8217448,93 | 598,72 |
| RAD-ALT19-C13-09 | 368330,96 | 8217462,85 | 598,68 |
| RAD-ALT19-C13-10 | 368339,76 | 8217472,07 | 598,69 |
| RAD-ALT19-C13-11 | 368348,90 | 8217479,61 | 598,68 |
| CURVA 14 | | | |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT19-C14-01 | 368340,20 | 8217336,53 | 600,49 |
| RAD-ALT19-C14-02 | 368342,96 | 8217348,98 | 600,52 |
| RAD-ALT19-C14-03 | 368346,24 | 8217363,96 | 600,51 |
| RAD-ALT19-C14-04 | 368349,82 | 8217377,69 | 600,50 |
| RAD-ALT19-C14-05 | 368356,45 | 8217388,68 | 600,51 |
| RAD-ALT19-C14-06 | 368361,77 | 8217400,98 | 600,52 |
| CURVA 15 | | | |
| RAD-ALT19-C15-01 | 368375,22 | 8217307,27 | 602,19 |
| RAD-ALT19-C15-02 | 368380,86 | 8217320,09 | 602,19 |
| RAD-ALT19-C15-03 | 368389,14 | 8217330,50 | 602,21 |
| RAD-ALT19-C15-04 | 368394,60 | 8217340,11 | 602,19 |
| RAD-ALT19-C15-05 | 368404,39 | 8217349,59 | 602,18 |
| RAD-ALT19-C15-06 | 368411,64 | 8217358,50 | 602,18 |
| RAD-ALT19-C15-07 | 368417,13 | 8217367,96 | 602,18 |
| RAD-ALT19-C15-08 | 368423,32 | 8217377,51 | 602,20 |
| RAD-ALT19-C15-09 | 368429,00 | 8217386,84 | 602,21 |
| RAD-ALT19-C15-10 | 368434,39 | 8217395,22 | 602,18 |
| RAD-ALT19-C15-11 | 368448,80 | 8217389,79 | 602,20 |
| RAD-ALT19-C15-12 | 368461,51 | 8217382,61 | 602,18 |
| RAD-ALT19-C15-13 | 368470,35 | 8217374,41 | 602,21 |
| RAD-ALT19-C15-14 | 368479,24 | 8217367,79 | 602,21 |
| RAD-ALT19-C15-15 | 368489,21 | 8217361,15 | 602,21 |
| RAD-ALT19-C15-16 | 368501,82 | 8217358,83 | 602,21 |
| RAD-ALT19-C15-17 | 368511,92 | 8217353,09 | 602,20 |
| RAD-ALT19-C15-18 | 368520,82 | 8217345,15 | 602,20 |
| RAD-ALT19-C15-19 | 368531,96 | 8217340,14 | 602,21 |
| RAD-ALT19-C15-20 | 368539,52 | 8217330,14 | 602,19 |
| RAD-ALT19-C15-21 | 368546,53 | 8217321,38 | 602,21 |
| RAD-ALT19-C15-22 | 368556,68 | 8217314,46 | 602,20 |
| RAD-ALT19-C15-23 | 368566,35 | 8217304,95 | 602,22 |
| RAD-ALT19-C15-24 | 368574,46 | 8217294,86 | 602,20 |
| RAD-ALT19-C15-25 | 368579,06 | 8217287,29 | 602,22 |
| RAD-ALT19-C15-26 | 368583,24 | 8217277,75 | 602,20 |
| RAD-ALT19-C15-27 | 368591,03 | 8217268,16 | 602,23 |
| RAD-ALT19-C15-28 | 368602,08 | 8217262,05 | 602,21 |
| RAD-ALT19-C15-29 | 368612,11 | 8217255,45 | 602,21 |
| RAD-ALT19-C15-30 | 368622,36 | 8217246,43 | 602,21 |
| CURVA 16 | | | |
| RAD-ALT19-C16-01 | 368622,12 | 8217193,55 | 604,32 |
| RAD-ALT19-C16-02 | 368614,14 | 8217201,07 | 604,28 |
| RAD-ALT19-C16-03 | 368605,55 | 8217209,96 | 604,30 |
| RAD-ALT19-C16-04 | 368597,09 | 8217220,65 | 604,31 |
| RAD-ALT19-C16-05 | 368586,38 | 8217229,72 | 604,30 |
| RAD-ALT19-C16-06 | 368579,17 | 8217236,40 | 604,31 |
| RAD-ALT19-C16-07 | 368574,08 | 8217245,06 | 604,31 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT19-C16-08 | 368565,14 | 8217250,22 | 604,31 |
| RAD-ALT19-C16-09 | 368559,47 | 8217259,41 | 604,32 |
| RAD-ALT19-C16-10 | 368551,63 | 8217267,01 | 604,28 |
| RAD-ALT19-C16-11 | 368541,41 | 8217272,41 | 604,31 |
| RAD-ALT19-C16-12 | 368532,46 | 8217280,25 | 604,29 |
| RAD-ALT19-C16-13 | 368524,21 | 8217286,13 | 604,29 |
| RAD-ALT19-C16-14 | 368514,99 | 8217291,50 | 604,30 |
| RAD-ALT19-C16-15 | 368505,67 | 8217297,15 | 604,29 |
| RAD-ALT19-C16-16 | 368497,65 | 8217301,15 | 604,28 |
| RAD-ALT19-C16-17 | 368486,86 | 8217301,49 | 604,30 |
| RAD-ALT19-C16-18 | 368473,40 | 8217301,40 | 604,32 |
| RAD-ALT19-C16-19 | 368461,15 | 8217301,91 | 604,31 |
| RAD-ALT19-C16-20 | 368449,61 | 8217301,68 | 604,31 |
| RAD-ALT19-C16-21 | 368438,47 | 8217298,62 | 604,28 |
| RAD-ALT19-C16-22 | 368429,51 | 8217294,41 | 604,29 |
| RAD-ALT19-C16-23 | 368421,77 | 8217286,48 | 604,32 |
| RAD-ALT19-C16-24 | 368415,74 | 8217278,18 | 604,29 |
| RAD-ALT19-C16-25 | 368407,71 | 8217269,42 | 604,31 |
| CURVA 17 | | | |
| RAD-ALT19-C17-01 | 368429,67 | 8217235,35 | 606,29 |
| RAD-ALT19-C17-02 | 368441,68 | 8217236,84 | 606,29 |
| RAD-ALT19-C17-03 | 368451,28 | 8217238,60 | 606,31 |
| RAD-ALT19-C17-04 | 368461,98 | 8217243,52 | 606,32 |
| RAD-ALT19-C17-05 | 368470,49 | 8217249,41 | 606,29 |
| RAD-ALT19-C17-06 | 368480,46 | 8217251,60 | 606,29 |
| RAD-ALT19-C17-07 | 368491,36 | 8217249,58 | 606,30 |
| RAD-ALT19-C17-08 | 368503,41 | 8217245,76 | 606,31 |
| RAD-ALT19-C17-09 | 368512,73 | 8217240,81 | 606,31 |
| RAD-ALT19-C17-10 | 368521,76 | 8217234,67 | 606,28 |
| RAD-ALT19-C17-11 | 368529,76 | 8217231,95 | 606,29 |
| RAD-ALT19-C17-12 | 368537,66 | 8217225,90 | 606,29 |
| RAD-ALT19-C17-13 | 368545,60 | 8217218,53 | 606,32 |
| RAD-ALT19-C17-14 | 368555,00 | 8217211,12 | 606,31 |
| RAD-ALT19-C17-15 | 368565,26 | 8217203,46 | 606,29 |
| RAD-ALT19-C17-16 | 368572,30 | 8217194,78 | 606,28 |
| RAD-ALT19-C17-17 | 368581,83 | 8217187,96 | 606,31 |
| RAD-ALT19-C17-18 | 368589,38 | 8217180,72 | 606,33 |
| RAD-ALT19-C17-19 | 368594,33 | 8217171,34 | 606,31 |
| RAD-ALT19-C17-20 | 368603,93 | 8217164,19 | 606,29 |
| CURVA 18 | | | |
| RAD-ALT19-C18-01 | 368583,52 | 8217134,31 | 608,80 |
| RAD-ALT19-C18-02 | 368572,82 | 8217143,88 | 608,78 |
| RAD-ALT19-C18-03 | 368564,39 | 8217147,79 | 608,82 |
| RAD-ALT19-C18-04 | 368557,79 | 8217154,57 | 608,79 |
| RAD-ALT19-C18-05 | 368550,12 | 8217160,35 | 608,80 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT19-C18-06 | 368543,31 | 8217165,34 | 608,79 |
| RAD-ALT19-C18-07 | 368536,33 | 8217169,72 | 608,80 |
| RAD-ALT19-C18-08 | 368525,97 | 8217177,55 | 608,80 |
| RAD-ALT19-C18-09 | 368517,27 | 8217182,27 | 608,82 |
| RAD-ALT19-C18-10 | 368508,05 | 8217187,04 | 608,80 |
| RAD-ALT19-C18-11 | 368497,51 | 8217190,59 | 608,78 |
| RAD-ALT19-C18-12 | 368487,70 | 8217192,46 | 608,79 |
| RAD-ALT19-C18-13 | 368478,54 | 8217191,79 | 608,80 |
| RAD-ALT19-C18-14 | 368467,97 | 8217190,12 | 608,81 |
| RAD-ALT19-C18-15 | 368457,05 | 8217187,49 | 608,78 |
| CURVA 19 | | | |
| RAD-ALT19-C19-01 | 368390,02 | 8217450,52 | 600,21 |
| RAD-ALT19-C19-02 | 368400,16 | 8217456,06 | 600,23 |
| RAD-ALT19-C19-03 | 368407,75 | 8217461,69 | 600,20 |
| RAD-ALT19-C19-04 | 368419,26 | 8217462,88 | 600,19 |
| RAD-ALT19-C19-05 | 368430,81 | 8217464,20 | 600,18 |
| RAD-ALT19-C19-06 | 368441,98 | 8217464,35 | 600,20 |
| RAD-ALT19-C19-07 | 368451,35 | 8217464,49 | 600,22 |
| RAD-ALT19-C19-08 | 368460,13 | 8217464,53 | 600,19 |
| RAD-ALT19-C19-09 | 368471,05 | 8217459,30 | 600,18 |
| RAD-ALT19-C19-10 | 368480,91 | 8217462,20 | 600,19 |
| RAD-ALT19-C19-11 | 368491,78 | 8217458,78 | 600,19 |
| RAD-ALT19-C19-12 | 368502,39 | 8217455,58 | 600,18 |
| RAD-ALT19-C19-13 | 368509,45 | 8217443,46 | 600,18 |
| RAD-ALT19-C19-14 | 368516,16 | 8217436,85 | 600,20 |
| RAD-ALT19-C19-15 | 368523,06 | 8217427,84 | 600,20 |
| RAD-ALT19-C19-16 | 368527,91 | 8217419,37 | 600,19 |
| RAD-ALT19-C19-17 | 368533,85 | 8217411,25 | 600,18 |
| RAD-ALT19-C19-18 | 368539,65 | 8217404,12 | 600,18 |
| RAD-ALT19-C19-19 | 368545,57 | 8217394,89 | 600,19 |
| RAD-ALT19-C19-20 | 368552,88 | 8217385,07 | 600,21 |
| RAD-ALT19-C19-21 | 368558,73 | 8217373,86 | 600,19 |
| RAD-ALT19-C19-22 | 368563,17 | 8217362,42 | 600,19 |
| RAD-ALT19-C19-23 | 368569,82 | 8217348,15 | 600,20 |
| RAD-ALT19-C19-24 | 368574,02 | 8217338,53 | 600,19 |
| RAD-ALT19-C19-25 | 368586,25 | 8217327,68 | 600,23 |
| RAD-ALT19-C19-26 | 368589,48 | 8217316,47 | 600,20 |
| RAD-ALT19-C19-27 | 368598,36 | 8217304,31 | 600,22 |
| CURVA 20 | | | |
| RAD-ALT19-C20-01 | 368534,75 | 8217479,24 | 598,81 |
| RAD-ALT19-C20-02 | 368525,70 | 8217486,44 | 598,79 |
| RAD-ALT19-C20-03 | 368517,72 | 8217494,16 | 598,78 |
| RAD-ALT19-C20-04 | 368509,38 | 8217502,52 | 598,80 |
| RAD-ALT19-C20-05 | 368498,32 | 8217509,44 | 598,77 |
| RAD-ALT19-C20-06 | 368486,54 | 8217512,85 | 598,77 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT19-C20-07 | 368473,68 | 8217517,70 | 598,77 |
| RAD-ALT19-C20-08 | 368464,74 | 8217518,77 | 598,77 |
| RAD-ALT19-C20-09 | 368455,23 | 8217518,44 | 598,79 |
| RAD-ALT19-C20-10 | 368443,49 | 8217513,56 | 598,82 |
| RAD-ALT19-C20-11 | 368432,72 | 8217512,15 | 598,83 |
| RAD-ALT19-C20-12 | 368419,20 | 8217512,27 | 598,80 |

Locação de Terraços - RAD-ALT-20

| NOME | ESTE | NORTE | ALTITUDE |
|------------------|-----------|------------|----------|
| CURVA 01 | | | |
| RAD-ALT20-C01-01 | 365325,98 | 8216501,58 | 614,32 |
| RAD-ALT20-C01-02 | 365322,93 | 8216488,96 | 614,29 |
| RAD-ALT20-C01-03 | 365322,61 | 8216478,66 | 614,30 |
| RAD-ALT20-C01-04 | 365317,24 | 8216469,02 | 614,29 |
| RAD-ALT20-C01-05 | 365311,90 | 8216459,08 | 614,30 |
| RAD-ALT20-C01-06 | 365307,72 | 8216449,28 | 614,30 |
| RAD-ALT20-C01-07 | 365303,51 | 8216439,46 | 614,32 |
| RAD-ALT20-C01-08 | 365296,42 | 8216429,66 | 614,30 |
| RAD-ALT20-C01-09 | 365293,97 | 8216419,14 | 614,30 |
| RAD-ALT20-C01-10 | 365291,11 | 8216409,98 | 614,30 |
| RAD-ALT20-C01-11 | 365288,14 | 8216399,23 | 614,32 |
| RAD-ALT20-C01-12 | 365282,98 | 8216390,51 | 614,29 |
| RAD-ALT20-C01-13 | 365276,30 | 8216382,44 | 614,29 |
| RAD-ALT20-C01-14 | 365270,75 | 8216372,26 | 614,29 |
| RAD-ALT20-C01-15 | 365264,09 | 8216364,22 | 614,32 |
| RAD-ALT20-C01-16 | 365257,34 | 8216357,52 | 614,29 |
| RAD-ALT20-C01-17 | 365249,17 | 8216351,44 | 614,31 |
| RAD-ALT20-C01-18 | 365240,95 | 8216343,78 | 614,31 |
| RAD-ALT20-C01-19 | 365231,66 | 8216338,55 | 614,30 |
| RAD-ALT20-C01-20 | 365227,52 | 8216326,79 | 614,30 |
| RAD-ALT20-C01-21 | 365225,87 | 8216318,36 | 614,28 |
| RAD-ALT20-C01-22 | 365223,93 | 8216309,97 | 614,30 |
| RAD-ALT20-C01-23 | 365221,53 | 8216300,57 | 614,29 |
| RAD-ALT20-C01-24 | 365215,05 | 8216295,21 | 615,30 |
| RAD-ALT20-C01-25 | 365218,05 | 8216280,49 | 614,32 |
| RAD-ALT20-C01-26 | 365213,19 | 8216273,21 | 614,31 |
| RAD-ALT20-C01-27 | 365207,70 | 8216264,80 | 614,31 |
| RAD-ALT20-C01-28 | 365202,29 | 8216255,86 | 614,30 |
| RAD-ALT20-C01-29 | 365196,76 | 8216247,75 | 614,30 |
| RAD-ALT20-C01-30 | 365192,76 | 8216237,72 | 614,29 |
| RAD-ALT20-C01-31 | 365182,89 | 8216230,72 | 614,32 |
| RAD-ALT20-C01-32 | 365175,70 | 8216223,86 | 614,30 |
| RAD-ALT20-C01-33 | 365170,08 | 8216216,37 | 614,31 |
| RAD-ALT20-C01-34 | 365166,49 | 8216205,62 | 614,30 |
| RAD-ALT20-C01-35 | 365165,81 | 8216196,23 | 614,31 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT20-C01-36 | 365162,07 | 8216185,95 | 614,30 |
| RAD-ALT20-C01-37 | 365159,43 | 8216175,29 | 614,29 |
| RAD-ALT20-C01-38 | 365154,16 | 8216166,56 | 614,31 |
| RAD-ALT20-C01-39 | 365150,19 | 8216155,90 | 614,31 |
| RAD-ALT20-C01-40 | 365146,67 | 8216147,16 | 614,34 |
| RAD-ALT20-C01-41 | 365138,62 | 8216138,12 | 614,33 |
| RAD-ALT20-C01-42 | 365131,52 | 8216128,04 | 614,32 |
| RAD-ALT20-C01-43 | 365126,56 | 8216117,27 | 614,32 |
| RAD-ALT20-C01-44 | 365121,47 | 8216105,79 | 614,30 |
| RAD-ALT20-C01-45 | 365120,15 | 8216090,80 | 614,31 |
| RAD-ALT20-C01-46 | 365114,45 | 8216081,96 | 614,29 |
| CURVA 02 | | | |
| RAD-ALT20-C02-01 | 365039,24 | 8216054,00 | 621,20 |
| RAD-ALT20-C02-02 | 365033,17 | 8216046,55 | 621,19 |
| RAD-ALT20-C02-03 | 365026,50 | 8216038,55 | 621,20 |
| RAD-ALT20-C02-04 | 365019,59 | 8216031,92 | 621,22 |
| RAD-ALT20-C02-05 | 365011,23 | 8216024,87 | 621,21 |
| RAD-ALT20-C02-06 | 365002,63 | 8216016,61 | 621,20 |
| RAD-ALT20-C02-07 | 365003,65 | 8216005,25 | 621,22 |
| RAD-ALT20-C02-08 | 365010,72 | 8215999,79 | 621,22 |
| RAD-ALT20-C02-09 | 365014,06 | 8215992,64 | 621,20 |
| RAD-ALT20-C02-10 | 365010,99 | 8215984,12 | 621,21 |
| CURVA 03 | | | |
| RAD-ALT20-C03-01 | 365346,15 | 8216468,40 | 610,50 |
| RAD-ALT20-C03-02 | 365340,53 | 8216458,52 | 610,51 |
| RAD-ALT20-C03-03 | 365336,18 | 8216449,56 | 610,52 |
| RAD-ALT20-C03-04 | 365329,93 | 8216440,28 | 610,50 |
| RAD-ALT20-C03-05 | 365322,45 | 8216432,89 | 610,52 |
| RAD-ALT20-C03-06 | 365317,14 | 8216423,25 | 610,50 |
| RAD-ALT20-C03-07 | 365312,15 | 8216416,98 | 610,51 |
| RAD-ALT20-C03-08 | 365307,39 | 8216406,22 | 610,50 |
| RAD-ALT20-C03-09 | 365299,68 | 8216388,35 | 610,50 |
| RAD-ALT20-C03-10 | 365295,54 | 8216380,15 | 610,49 |
| RAD-ALT20-C03-11 | 365288,45 | 8216373,58 | 610,51 |
| RAD-ALT20-C03-12 | 365283,30 | 8216363,25 | 610,49 |
| RAD-ALT20-C03-13 | 365277,92 | 8216353,29 | 610,51 |
| RAD-ALT20-C03-14 | 365271,31 | 8216344,01 | 610,50 |
| RAD-ALT20-C03-15 | 365263,06 | 8216333,47 | 610,49 |
| RAD-ALT20-C03-16 | 365261,92 | 8216325,19 | 610,48 |
| RAD-ALT20-C03-17 | 365259,60 | 8216316,33 | 610,51 |
| RAD-ALT20-C03-18 | 365257,72 | 8216306,41 | 610,52 |
| RAD-ALT20-C03-19 | 365255,99 | 8216294,96 | 610,54 |
| RAD-ALT20-C03-20 | 365252,34 | 8216285,29 | 610,51 |
| RAD-ALT20-C03-21 | 365248,03 | 8216276,43 | 610,51 |
| RAD-ALT20-C03-22 | 365243,92 | 8216269,17 | 610,50 |

| RAD-ALT20-C03-23 | 365239,59 | 8216263,64 | 610,51 |
|---|-----------|------------|----------|
| RAD-ALT20-C03-24 | 365235,43 | 8216255,10 | 610,49 |
| RAD-ALT20-C03-25 | 365228,49 | 8216246,49 | 610,49 |
| RAD-ALT20-C03-26 | 365221,34 | 8216239,34 | 610,52 |
| RAD-ALT20-C03-27 | 365215,38 | 8216230,80 | 610,49 |
| RAD-ALT20-C03-28 | 365208,38 | 8216222,36 | 610,50 |
| RAD-ALT20-C03-29 | 365201,34 | 8216215,60 | 610,51 |
| RAD-ALT20-C03-30 | 365206,68 | 8216202,26 | 610,49 |
| RAD-ALT20-C03-31 | 365205,79 | 8216190,50 | 610,49 |
| RAD-ALT20-C03-32 | 365208,82 | 8216177,63 | 610,52 |
| RAD-ALT20-C03-33 | 365210,51 | 8216164,50 | 610,49 |
| RAD-ALT20-C03-34 | 365211,96 | 8216153,12 | 610,50 |
| RAD-ALT20-C03-35 | 365211,27 | 8216142,82 | 610,51 |
| RAD-ALT20-C03-36 | 365204,58 | 8216132,76 | 610,50 |
| RAD-ALT20-C03-37 | 365195,33 | 8216125,88 | 610,50 |
| RAD-ALT20-C03-38 | 365186,36 | 8216115,66 | 610,52 |
| RAD-ALT20-C03-39 | 365177,28 | 8216106,38 | 610,51 |
| RAD-ALT20-C03-40 | 365172,17 | 8216095,91 | 610,51 |
| RAD-ALT20-C03-41 | 365166,61 | 8216086,10 | 610,50 |
| RAD-ALT20-C03-42 | 365161,24 | 8216074,36 | 610,51 |
| RAD-ALT20-C03-43 | 365154,66 | 8216062,97 | 610,51 |
| RAD-ALT20-C03-44 | 365146,14 | 8216054,64 | 610,52 |
| CURVA 03 | | | |
| RAD-ALT20-C04-01 | 365032,56 | 8215965,11 | 617,21 |
| RAD-ALT20-C04-02 | 365038,01 | 8215974,16 | 617,20 |
| RAD-ALT20-C04-03 | 365043,55 | 8215984,10 | 617,19 |
| RAD-ALT20-C04-04 | 365046,01 | 8215994,13 | 617,20 |
| RAD-ALT20-C04-05 | 365043,50 | 8216005,99 | 617,20 |
| RAD-ALT20-C04-06 | 365042,75 | 8216016,07 | 617,19 |
| RAD-ALT20-C04-07 | 365047,16 | 8216023,53 | 617,21 |
| RAD-ALT20-C04-08 | 365054,00 | 8216030,52 | 617,20 |
| RAD-ALT20-C04-09 | 365061,91 | 8216037,05 | 617,18 |
| Locação de Terraços - RAD-ALT-21 | | | |
| NOME | ESTE | NORTE | ALTITUDE |
| CURVA 01 | | | |
| RAD-ALT21-C01-01 | 361790,48 | 8213778,59 | 915,80 |
| RAD-ALT21-C01-02 | 361797,50 | 8213788,44 | 915,82 |
| RAD-ALT21-C01-03 | 361803,65 | 8213799,12 | 915,81 |
| RAD-ALT21-C01-04 | 361808,64 | 8213809,50 | 915,80 |
| RAD-ALT21-C01-05 | 361812,46 | 8213819,88 | 915,81 |
| RAD-ALT21-C01-06 | 361817,65 | 8213828,09 | 915,82 |
| RAD-ALT21-C01-07 | 361822,67 | 8213837,71 | 915,81 |
| RAD-ALT21-C01-08 | 361826,74 | 8213846,61 | 915,80 |
| RAD-ALT21-C01-09 | 361832,06 | 8213856,08 | 915,81 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C01-10 | 361836,14 | 8213866,07 | 915,80 |
| RAD-ALT21-C01-11 | 361838,24 | 8213875,49 | 915,80 |
| RAD-ALT21-C01-12 | 361840,35 | 8213886,30 | 915,79 |
| RAD-ALT21-C01-13 | 361841,04 | 8213897,67 | 915,81 |
| RAD-ALT21-C01-14 | 361841,88 | 8213908,24 | 915,81 |
| RAD-ALT21-C01-15 | 361842,93 | 8213919,25 | 915,82 |
| RAD-ALT21-C01-16 | 361843,88 | 8213929,89 | 915,79 |
| RAD-ALT21-C01-17 | 361844,87 | 8213940,28 | 915,81 |
| RAD-ALT21-C01-18 | 361844,10 | 8213951,61 | 915,79 |
| RAD-ALT21-C01-19 | 361844,73 | 8213962,18 | 915,80 |
| RAD-ALT21-C01-20 | 361844,04 | 8213972,97 | 915,79 |
| RAD-ALT21-C01-21 | 361844,43 | 8213984,06 | 915,78 |
| RAD-ALT21-C01-22 | 361842,87 | 8213995,51 | 915,79 |
| RAD-ALT21-C01-23 | 361842,86 | 8214005,72 | 915,80 |
| RAD-ALT21-C01-24 | 361840,52 | 8214017,68 | 915,80 |
| RAD-ALT21-C01-25 | 361840,98 | 8214029,61 | 915,80 |
| RAD-ALT21-C01-26 | 361839,72 | 8214040,96 | 915,80 |
| RAD-ALT21-C01-27 | 361838,16 | 8214052,01 | 915,82 |
| RAD-ALT21-C01-28 | 361837,08 | 8214063,83 | 915,82 |
| RAD-ALT21-C01-29 | 361836,45 | 8214074,14 | 915,80 |
| RAD-ALT21-C01-30 | 361836,10 | 8214085,12 | 915,81 |
| RAD-ALT21-C01-31 | 361833,95 | 8214097,03 | 915,79 |
| RAD-ALT21-C01-32 | 361833,17 | 8214108,54 | 915,82 |
| RAD-ALT21-C01-33 | 361832,37 | 8214120,52 | 915,80 |
| RAD-ALT21-C01-34 | 361830,34 | 8214134,90 | 915,79 |
| CURVA 02 | | | |
| RAD-ALT21-C02-01 | 361859,44 | 8214281,35 | 914,30 |
| RAD-ALT21-C02-02 | 361861,72 | 8214269,50 | 914,29 |
| RAD-ALT21-C02-03 | 361863,15 | 8214258,11 | 914,30 |
| RAD-ALT21-C02-04 | 361863,62 | 8214247,12 | 914,31 |
| RAD-ALT21-C02-05 | 361864,52 | 8214235,61 | 914,29 |
| RAD-ALT21-C02-06 | 361867,38 | 8214225,04 | 914,30 |
| RAD-ALT21-C02-07 | 361869,45 | 8214214,80 | 914,31 |
| RAD-ALT21-C02-08 | 361871,19 | 8214205,09 | 914,30 |
| RAD-ALT21-C02-09 | 361871,86 | 8214195,51 | 914,30 |
| RAD-ALT21-C02-10 | 361874,18 | 8214185,84 | 914,31 |
| RAD-ALT21-C02-11 | 361875,53 | 8214175,66 | 914,29 |
| RAD-ALT21-C02-12 | 361874,69 | 8214166,73 | 914,29 |
| RAD-ALT21-C02-13 | 361877,06 | 8214157,01 | 914,31 |
| RAD-ALT21-C02-14 | 361879,06 | 8214146,82 | 914,31 |
| RAD-ALT21-C02-15 | 361881,28 | 8214136,62 | 914,30 |
| RAD-ALT21-C02-16 | 361883,40 | 8214127,12 | 914,30 |
| RAD-ALT21-C02-17 | 361885,39 | 8214118,29 | 914,29 |
| RAD-ALT21-C02-18 | 361885,51 | 8214110,14 | 914,30 |
| RAD-ALT21-C02-19 | 361886,42 | 8214101,34 | 914,29 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C02-20 | 361887,82 | 8214091,86 | 914,29 |
| RAD-ALT21-C02-21 | 361888,71 | 8214083,35 | 914,29 |
| RAD-ALT21-C02-22 | 361889,97 | 8214072,66 | 914,31 |
| RAD-ALT21-C02-23 | 361891,31 | 8214062,61 | 914,29 |
| RAD-ALT21-C02-24 | 361893,71 | 8214054,11 | 914,31 |
| RAD-ALT21-C02-25 | 361892,93 | 8214044,10 | 914,30 |
| RAD-ALT21-C02-26 | 361893,36 | 8214034,71 | 914,29 |
| RAD-ALT21-C02-27 | 361893,69 | 8214024,89 | 914,31 |
| RAD-ALT21-C02-28 | 361895,11 | 8214014,92 | 914,30 |
| RAD-ALT21-C02-29 | 361895,01 | 8214005,49 | 914,30 |
| RAD-ALT21-C02-30 | 361895,26 | 8213995,02 | 914,30 |
| RAD-ALT21-C02-31 | 361896,72 | 8213986,10 | 914,30 |
| RAD-ALT21-C02-32 | 361897,77 | 8213975,92 | 914,29 |
| RAD-ALT21-C02-33 | 361897,27 | 8213963,36 | 914,31 |
| RAD-ALT21-C02-34 | 361896,26 | 8213953,19 | 914,29 |
| RAD-ALT21-C02-35 | 361894,23 | 8213942,21 | 914,29 |
| RAD-ALT21-C02-36 | 361892,73 | 8213930,85 | 914,31 |
| RAD-ALT21-C02-37 | 361891,33 | 8213920,43 | 914,31 |
| RAD-ALT21-C02-38 | 361892,01 | 8213908,30 | 914,30 |
| RAD-ALT21-C02-39 | 361889,69 | 8213896,27 | 914,29 |
| RAD-ALT21-C02-40 | 361888,77 | 8213885,06 | 914,29 |
| RAD-ALT21-C02-41 | 361885,21 | 8213876,26 | 914,29 |
| RAD-ALT21-C02-42 | 361882,22 | 8213865,38 | 914,30 |
| RAD-ALT21-C02-43 | 361878,84 | 8213852,93 | 914,29 |
| RAD-ALT21-C02-44 | 361872,97 | 8213842,29 | 914,29 |
| RAD-ALT21-C02-45 | 361868,76 | 8213829,79 | 914,30 |
| RAD-ALT21-C02-46 | 361861,56 | 8213820,36 | 914,31 |
| RAD-ALT21-C02-47 | 361856,27 | 8213810,10 | 914,30 |
| RAD-ALT21-C02-48 | 361848,87 | 8213801,23 | 914,30 |
| RAD-ALT21-C02-49 | 361839,96 | 8213791,20 | 914,29 |
| RAD-ALT21-C02-50 | 361834,10 | 8213782,73 | 914,30 |
| CURVA 03 | | | |
| RAD-ALT21-C03-01 | 361873,67 | 8213784,96 | 912,80 |
| RAD-ALT21-C03-02 | 361880,78 | 8213793,35 | 912,80 |
| RAD-ALT21-C03-03 | 361885,86 | 8213801,68 | 912,81 |
| RAD-ALT21-C03-04 | 361892,29 | 8213810,13 | 912,79 |
| RAD-ALT21-C03-05 | 361897,35 | 8213819,91 | 912,79 |
| RAD-ALT21-C03-06 | 361901,05 | 8213830,47 | 912,81 |
| RAD-ALT21-C03-07 | 361907,38 | 8213840,27 | 912,78 |
| RAD-ALT21-C03-08 | 361911,66 | 8213850,08 | 912,80 |
| RAD-ALT21-C03-09 | 361916,93 | 8213860,16 | 912,79 |
| RAD-ALT21-C03-10 | 361919,76 | 8213869,57 | 912,80 |
| RAD-ALT21-C03-11 | 361922,81 | 8213879,50 | 912,80 |
| RAD-ALT21-C03-12 | 361925,67 | 8213890,03 | 912,81 |
| RAD-ALT21-C03-13 | 361927,85 | 8213900,40 | 912,79 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C03-14 | 361929,76 | 8213910,27 | 912,79 |
| RAD-ALT21-C03-15 | 361931,65 | 8213920,16 | 912,78 |
| RAD-ALT21-C03-16 | 361933,09 | 8213932,52 | 912,82 |
| RAD-ALT21-C03-17 | 361934,36 | 8213942,73 | 912,81 |
| RAD-ALT21-C03-18 | 361934,18 | 8213953,90 | 912,81 |
| RAD-ALT21-C03-19 | 361932,87 | 8213964,59 | 912,81 |
| RAD-ALT21-C03-20 | 361933,04 | 8213974,55 | 912,80 |
| RAD-ALT21-C03-21 | 361930,73 | 8213985,49 | 912,80 |
| RAD-ALT21-C03-22 | 361931,71 | 8213996,07 | 912,80 |
| RAD-ALT21-C03-23 | 361931,21 | 8214006,90 | 912,82 |
| RAD-ALT21-C03-24 | 361930,44 | 8214018,26 | 912,80 |
| RAD-ALT21-C03-25 | 361934,35 | 8214030,68 | 912,81 |
| RAD-ALT21-C03-26 | 361934,08 | 8214042,07 | 912,79 |
| RAD-ALT21-C03-27 | 361933,18 | 8214054,59 | 912,79 |
| RAD-ALT21-C03-28 | 361931,72 | 8214065,79 | 912,80 |
| RAD-ALT21-C03-29 | 361929,44 | 8214077,66 | 912,80 |
| RAD-ALT21-C03-30 | 361928,25 | 8214089,39 | 912,82 |
| RAD-ALT21-C03-31 | 361924,32 | 8214100,42 | 912,81 |
| RAD-ALT21-C03-32 | 361923,26 | 8214111,24 | 912,81 |
| RAD-ALT21-C03-33 | 361922,19 | 8214122,26 | 912,79 |
| RAD-ALT21-C03-34 | 361920,03 | 8214132,63 | 912,80 |
| RAD-ALT21-C03-35 | 361918,18 | 8214142,91 | 912,82 |
| RAD-ALT21-C03-36 | 361916,97 | 8214154,18 | 912,79 |
| RAD-ALT21-C03-37 | 361914,13 | 8214164,38 | 912,79 |
| RAD-ALT21-C03-38 | 361910,55 | 8214174,22 | 912,79 |
| RAD-ALT21-C03-39 | 361908,77 | 8214186,41 | 912,79 |
| RAD-ALT21-C03-40 | 361905,84 | 8214194,58 | 912,80 |
| RAD-ALT21-C03-41 | 361902,80 | 8214204,49 | 912,79 |
| RAD-ALT21-C03-42 | 361895,79 | 8214215,21 | 912,83 |
| RAD-ALT21-C03-43 | 361894,84 | 8214225,76 | 912,81 |
| RAD-ALT21-C03-44 | 361889,67 | 8214235,81 | 912,82 |
| RAD-ALT21-C03-45 | 361887,09 | 8214246,22 | 912,79 |
| RAD-ALT21-C03-46 | 361884,80 | 8214256,40 | 912,81 |
| RAD-ALT21-C03-47 | 361881,74 | 8214268,20 | 912,79 |
| RAD-ALT21-C03-48 | 361881,08 | 8214283,07 | 912,79 |
| CURVA 04 | | | |
| RAD-ALT21-C04-01 | 361913,41 | 8213787,31 | 911,00 |
| RAD-ALT21-C04-02 | 361917,96 | 8213797,30 | 911,02 |
| RAD-ALT21-C04-03 | 361924,99 | 8213807,01 | 911,03 |
| RAD-ALT21-C04-04 | 361931,48 | 8213815,89 | 911,03 |
| RAD-ALT21-C04-05 | 361936,56 | 8213825,77 | 911,02 |
| RAD-ALT21-C04-06 | 361941,12 | 8213836,32 | 911,03 |
| RAD-ALT21-C04-07 | 361946,01 | 8213845,76 | 911,02 |
| RAD-ALT21-C04-08 | 361949,08 | 8213856,61 | 911,00 |
| RAD-ALT21-C04-09 | 361953,23 | 8213866,50 | 911,02 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C04-10 | 361956,49 | 8213876,86 | 911,01 |
| RAD-ALT21-C04-11 | 361959,09 | 8213886,51 | 911,02 |
| RAD-ALT21-C04-12 | 361961,13 | 8213897,02 | 911,01 |
| RAD-ALT21-C04-13 | 361963,71 | 8213907,51 | 911,02 |
| RAD-ALT21-C04-14 | 361966,18 | 8213916,96 | 911,01 |
| RAD-ALT21-C04-15 | 361968,14 | 8213926,03 | 911,01 |
| RAD-ALT21-C04-16 | 361969,78 | 8213935,55 | 910,99 |
| RAD-ALT21-C04-17 | 361971,07 | 8213946,63 | 910,99 |
| RAD-ALT21-C04-18 | 361972,00 | 8213957,87 | 911,00 |
| RAD-ALT21-C04-19 | 361973,14 | 8213967,50 | 910,99 |
| RAD-ALT21-C04-20 | 361973,86 | 8213977,19 | 911,00 |
| RAD-ALT21-C04-21 | 361974,25 | 8213987,63 | 910,99 |
| RAD-ALT21-C04-22 | 361972,28 | 8213997,59 | 911,00 |
| RAD-ALT21-C04-23 | 361973,10 | 8214008,30 | 911,00 |
| RAD-ALT21-C04-24 | 361972,17 | 8214018,95 | 911,01 |
| RAD-ALT21-C04-25 | 361970,38 | 8214029,50 | 910,99 |
| RAD-ALT21-C04-26 | 361970,24 | 8214040,09 | 910,99 |
| RAD-ALT21-C04-27 | 361968,86 | 8214050,70 | 911,00 |
| RAD-ALT21-C04-28 | 361966,20 | 8214062,05 | 910,99 |
| RAD-ALT21-C04-29 | 361962,32 | 8214072,19 | 911,01 |
| RAD-ALT21-C04-30 | 361961,72 | 8214082,83 | 911,02 |
| RAD-ALT21-C04-31 | 361961,35 | 8214093,34 | 911,01 |
| RAD-ALT21-C04-32 | 361959,48 | 8214104,12 | 910,98 |
| RAD-ALT21-C04-33 | 361955,65 | 8214115,39 | 910,99 |
| RAD-ALT21-C04-34 | 361953,60 | 8214126,19 | 910,99 |
| RAD-ALT21-C04-35 | 361950,83 | 8214136,43 | 910,98 |
| RAD-ALT21-C04-36 | 361947,35 | 8214147,78 | 911,01 |
| RAD-ALT21-C04-37 | 361943,96 | 8214158,31 | 910,99 |
| RAD-ALT21-C04-38 | 361939,96 | 8214169,67 | 910,99 |
| RAD-ALT21-C04-39 | 361935,85 | 8214180,24 | 911,01 |
| RAD-ALT21-C04-40 | 361932,29 | 8214189,62 | 911,00 |
| RAD-ALT21-C04-41 | 361927,90 | 8214198,63 | 911,03 |
| RAD-ALT21-C04-42 | 361923,07 | 8214207,75 | 910,98 |
| RAD-ALT21-C04-43 | 361917,61 | 8214217,31 | 910,99 |
| RAD-ALT21-C04-44 | 361913,39 | 8214228,67 | 911,00 |
| RAD-ALT21-C04-45 | 361908,45 | 8214239,46 | 910,98 |
| RAD-ALT21-C04-46 | 361903,36 | 8214251,92 | 910,99 |
| RAD-ALT21-C04-47 | 361898,30 | 8214263,34 | 911,00 |
| RAD-ALT21-C04-48 | 361899,53 | 8214276,25 | 910,98 |
| CURVA 05 | | | |
| RAD-ALT21-C05-01 | 361944,98 | 8213789,15 | 909,30 |
| RAD-ALT21-C05-02 | 361952,21 | 8213799,13 | 909,30 |
| RAD-ALT21-C05-03 | 361956,98 | 8213808,16 | 909,31 |
| RAD-ALT21-C05-04 | 361960,53 | 8213816,35 | 909,30 |
| RAD-ALT21-C05-05 | 361966,72 | 8213826,43 | 909,32 |

| CURVA 06 | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C06-01 | 362008,53 | 8213923,58 | 908,70 |
| RAD-ALT21-C06-02 | 362011,49 | 8213933,97 | 908,69 |
| RAD-ALT21-C06-03 | 362011,96 | 8213944,31 | 908,68 |
| RAD-ALT21-C06-04 | 362011,75 | 8213953,51 | 908,71 |
| RAD-ALT21-C06-05 | 362013,61 | 8213963,38 | 908,71 |
| RAD-ALT21-C06-06 | 362011,92 | 8213974,39 | 908,69 |
| RAD-ALT21-C06-07 | 362010,51 | 8213984,68 | 908,71 |
| RAD-ALT21-C06-08 | 362011,79 | 8213993,85 | 908,70 |
| RAD-ALT21-C06-09 | 362011,27 | 8214004,60 | 908,71 |
| RAD-ALT21-C06-10 | 362011,56 | 8214014,92 | 908,70 |
| RAD-ALT21-C06-11 | 362010,76 | 8214025,58 | 908,69 |
| RAD-ALT21-C06-12 | 362008,78 | 8214034,70 | 908,71 |
| RAD-ALT21-C06-13 | 362007,10 | 8214044,94 | 908,71 |
| RAD-ALT21-C06-14 | 362005,90 | 8214054,67 | 908,71 |
| RAD-ALT21-C06-15 | 362004,72 | 8214064,24 | 908,70 |
| RAD-ALT21-C06-16 | 362002,22 | 8214073,97 | 908,71 |
| RAD-ALT21-C06-17 | 361999,81 | 8214084,32 | 908,68 |
| RAD-ALT21-C06-18 | 361997,18 | 8214094,06 | 908,69 |
| RAD-ALT21-C06-19 | 361993,04 | 8214103,59 | 908,71 |
| RAD-ALT21-C06-20 | 361989,71 | 8214112,49 | 908,70 |
| RAD-ALT21-C06-21 | 361986,73 | 8214122,75 | 908,70 |
| RAD-ALT21-C06-22 | 361983,28 | 8214132,30 | 908,70 |
| RAD-ALT21-C06-23 | 361980,22 | 8214141,16 | 908,68 |
| RAD-ALT21-C06-24 | 361975,66 | 8214150,63 | 908,68 |
| RAD-ALT21-C06-25 | 361969,82 | 8214160,77 | 908,70 |
| RAD-ALT21-C06-26 | 361965,19 | 8214171,17 | 908,72 |
| RAD-ALT21-C06-27 | 361960,79 | 8214180,84 | 908,70 |
| RAD-ALT21-C06-28 | 361954,88 | 8214190,14 | 908,70 |
| RAD-ALT21-C06-29 | 361949,85 | 8214199,22 | 908,71 |
| RAD-ALT21-C06-30 | 361943,41 | 8214208,89 | 908,70 |
| RAD-ALT21-C06-31 | 361939,26 | 8214219,28 | 908,70 |
| RAD-ALT21-C06-32 | 361933,80 | 8214229,23 | 908,68 |
| RAD-ALT21-C06-33 | 361929,04 | 8214238,28 | 908,71 |
| RAD-ALT21-C06-34 | 361924,49 | 8214248,01 | 908,68 |
| RAD-ALT21-C06-35 | 361922,29 | 8214259,43 | 908,70 |
| RAD-ALT21-C06-36 | 361921,69 | 8214268,31 | 908,70 |
| CURVA 07 | | | |
| RAD-ALT21-C07-01 | 362049,49 | 8213918,54 | 906,00 |
| RAD-ALT21-C07-02 | 362050,46 | 8213928,85 | 905,99 |
| RAD-ALT21-C07-03 | 362051,22 | 8213941,03 | 906,00 |
| RAD-ALT21-C07-04 | 362050,91 | 8213952,30 | 905,99 |
| RAD-ALT21-C07-05 | 362052,92 | 8213961,94 | 906,01 |
| RAD-ALT21-C07-06 | 362053,07 | 8213973,02 | 905,99 |
| RAD-ALT21-C07-07 | 362053,02 | 8213983,70 | 906,00 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C07-08 | 362052,77 | 8213993,77 | 905,99 |
| RAD-ALT21-C07-09 | 362049,70 | 8214004,48 | 906,00 |
| RAD-ALT21-C07-10 | 362049,50 | 8214014,98 | 906,02 |
| RAD-ALT21-C07-11 | 362047,51 | 8214025,85 | 906,01 |
| RAD-ALT21-C07-12 | 362047,65 | 8214037,82 | 905,99 |
| RAD-ALT21-C07-13 | 362044,07 | 8214047,35 | 905,99 |
| RAD-ALT21-C07-14 | 362040,62 | 8214057,52 | 906,00 |
| RAD-ALT21-C07-15 | 362038,57 | 8214067,46 | 906,03 |
| RAD-ALT21-C07-16 | 362036,00 | 8214077,48 | 906,02 |
| RAD-ALT21-C07-17 | 362032,98 | 8214086,85 | 906,00 |
| RAD-ALT21-C07-18 | 362030,01 | 8214096,49 | 906,02 |
| RAD-ALT21-C07-19 | 362027,11 | 8214106,68 | 906,00 |
| RAD-ALT21-C07-20 | 362022,15 | 8214115,66 | 906,02 |
| RAD-ALT21-C07-21 | 362017,24 | 8214124,71 | 906,01 |
| RAD-ALT21-C07-22 | 362012,06 | 8214136,59 | 906,01 |
| RAD-ALT21-C07-23 | 362007,11 | 8214147,50 | 906,00 |
| RAD-ALT21-C07-24 | 362002,51 | 8214156,92 | 906,02 |
| RAD-ALT21-C07-25 | 361996,95 | 8214166,65 | 905,99 |
| RAD-ALT21-C07-26 | 361990,46 | 8214176,14 | 906,01 |
| RAD-ALT21-C07-27 | 361983,79 | 8214184,54 | 906,01 |
| RAD-ALT21-C07-28 | 361977,79 | 8214193,12 | 906,03 |
| RAD-ALT21-C07-29 | 361970,46 | 8214202,73 | 906,02 |
| RAD-ALT21-C07-30 | 361963,89 | 8214213,33 | 905,99 |
| RAD-ALT21-C07-31 | 361959,22 | 8214222,90 | 906,02 |
| RAD-ALT21-C07-32 | 361954,81 | 8214232,94 | 906,00 |
| RAD-ALT21-C07-33 | 361950,40 | 8214242,69 | 906,03 |
| RAD-ALT21-C07-34 | 361946,12 | 8214253,90 | 906,03 |
| CURVA 08 | | | |
| RAD-ALT21-C08-01 | 362073,13 | 8213956,23 | 904,51 |
| RAD-ALT21-C08-02 | 362076,25 | 8213969,09 | 904,50 |
| RAD-ALT21-C08-03 | 362075,72 | 8213978,70 | 904,50 |
| RAD-ALT21-C08-04 | 362074,62 | 8213988,20 | 904,48 |
| RAD-ALT21-C08-05 | 362074,22 | 8213998,46 | 904,51 |
| RAD-ALT21-C08-06 | 362071,07 | 8214008,05 | 904,51 |
| RAD-ALT21-C08-07 | 362071,64 | 8214017,73 | 904,48 |
| RAD-ALT21-C08-08 | 362069,35 | 8214029,39 | 904,51 |
| RAD-ALT21-C08-09 | 362066,04 | 8214039,82 | 904,51 |
| RAD-ALT21-C08-10 | 362064,67 | 8214049,79 | 904,49 |
| RAD-ALT21-C08-11 | 362061,19 | 8214058,65 | 904,49 |
| RAD-ALT21-C08-12 | 362058,98 | 8214066,79 | 904,48 |
| RAD-ALT21-C08-13 | 362055,70 | 8214076,76 | 904,49 |
| RAD-ALT21-C08-14 | 362052,72 | 8214086,00 | 904,50 |
| RAD-ALT21-C08-15 | 362049,19 | 8214096,21 | 904,50 |
| RAD-ALT21-C08-16 | 362045,05 | 8214105,79 | 904,49 |
| RAD-ALT21-C08-17 | 362040,60 | 8214116,06 | 904,49 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C08-18 | 362035,84 | 8214125,58 | 904,51 |
| RAD-ALT21-C08-19 | 362031,30 | 8214134,60 | 904,50 |
| RAD-ALT21-C08-20 | 362025,73 | 8214143,58 | 904,50 |
| RAD-ALT21-C08-21 | 362020,77 | 8214152,90 | 904,51 |
| RAD-ALT21-C08-22 | 362014,70 | 8214162,35 | 904,49 |
| RAD-ALT21-C08-23 | 362007,69 | 8214171,20 | 904,50 |
| RAD-ALT21-C08-24 | 362002,71 | 8214177,87 | 904,50 |
| RAD-ALT21-C08-25 | 361996,89 | 8214188,75 | 904,49 |
| RAD-ALT21-C08-26 | 361989,42 | 8214197,66 | 904,51 |
| RAD-ALT21-C08-27 | 361982,66 | 8214206,60 | 904,48 |
| RAD-ALT21-C08-28 | 361976,42 | 8214215,42 | 904,50 |
| RAD-ALT21-C08-29 | 361971,96 | 8214225,19 | 904,50 |
| RAD-ALT21-C08-30 | 361968,46 | 8214235,91 | 904,50 |
| RAD-ALT21-C08-31 | 361964,56 | 8214245,43 | 904,50 |
| CURVA 09 | | | |
| RAD-ALT21-C09-01 | 361907,96 | 8214300,33 | 910,99 |
| RAD-ALT21-C09-02 | 361919,94 | 8214304,99 | 911,00 |
| RAD-ALT21-C09-03 | 361931,52 | 8214309,91 | 910,99 |
| RAD-ALT21-C09-04 | 361941,60 | 8214312,63 | 910,98 |
| RAD-ALT21-C09-05 | 361950,80 | 8214315,14 | 911,01 |
| RAD-ALT21-C09-06 | 361960,52 | 8214317,27 | 911,00 |
| RAD-ALT21-C09-07 | 361970,97 | 8214320,62 | 911,03 |
| RAD-ALT21-C09-08 | 361980,22 | 8214325,04 | 910,99 |
| RAD-ALT21-C09-09 | 361990,68 | 8214329,42 | 911,00 |
| RAD-ALT21-C09-10 | 361997,18 | 8214336,99 | 910,99 |
| RAD-ALT21-C09-11 | 362004,58 | 8214345,45 | 911,00 |
| RAD-ALT21-C09-12 | 362011,12 | 8214351,89 | 910,99 |
| RAD-ALT21-C09-13 | 362016,26 | 8214361,23 | 911,03 |
| RAD-ALT21-C09-14 | 362021,94 | 8214369,96 | 910,99 |
| RAD-ALT21-C09-15 | 362026,55 | 8214380,09 | 911,00 |
| RAD-ALT21-C09-16 | 362036,20 | 8214387,93 | 911,01 |
| RAD-ALT21-C09-17 | 362045,26 | 8214396,61 | 911,02 |
| RAD-ALT21-C09-18 | 362052,95 | 8214404,74 | 911,01 |
| RAD-ALT21-C09-19 | 362059,98 | 8214412,25 | 910,99 |
| RAD-ALT21-C09-20 | 362067,26 | 8214419,52 | 911,00 |
| RAD-ALT21-C09-21 | 362073,23 | 8214428,79 | 911,02 |
| RAD-ALT21-C09-22 | 362079,19 | 8214436,87 | 911,01 |
| RAD-ALT21-C09-23 | 362086,26 | 8214445,32 | 911,01 |
| RAD-ALT21-C09-24 | 362093,52 | 8214454,16 | 911,01 |
| RAD-ALT21-C09-25 | 362098,10 | 8214464,10 | 911,01 |
| RAD-ALT21-C09-26 | 362104,25 | 8214472,78 | 911,01 |
| RAD-ALT21-C09-27 | 362110,89 | 8214481,01 | 911,03 |
| RAD-ALT21-C09-28 | 362117,90 | 8214489,06 | 911,02 |
| RAD-ALT21-C09-29 | 362124,75 | 8214497,91 | 911,02 |
| RAD-ALT21-C09-30 | 362131,26 | 8214506,33 | 911,02 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C09-31 | 362138,36 | 8214516,21 | 910,99 |
| RAD-ALT21-C09-32 | 362144,99 | 8214523,62 | 911,01 |
| RAD-ALT21-C09-33 | 362149,82 | 8214532,91 | 911,02 |
| RAD-ALT21-C09-34 | 362156,72 | 8214541,82 | 911,01 |
| RAD-ALT21-C09-35 | 362163,99 | 8214549,54 | 911,02 |
| RAD-ALT21-C09-36 | 362170,96 | 8214556,20 | 911,00 |
| RAD-ALT21-C09-37 | 362177,84 | 8214563,94 | 910,99 |
| RAD-ALT21-C09-38 | 362182,22 | 8214571,23 | 911,00 |
| RAD-ALT21-C09-39 | 362188,57 | 8214578,36 | 910,99 |
| RAD-ALT21-C09-40 | 362194,64 | 8214587,20 | 911,00 |
| RAD-ALT21-C09-41 | 362201,51 | 8214595,46 | 910,99 |
| RAD-ALT21-C09-42 | 362208,25 | 8214602,89 | 911,01 |
| RAD-ALT21-C09-43 | 362215,35 | 8214610,24 | 911,01 |
| RAD-ALT21-C09-44 | 362222,97 | 8214618,10 | 911,02 |
| RAD-ALT21-C09-45 | 362230,21 | 8214625,07 | 911,00 |
| RAD-ALT21-C09-46 | 362237,05 | 8214631,73 | 911,02 |
| RAD-ALT21-C09-47 | 362246,95 | 8214636,16 | 911,01 |
| RAD-ALT21-C09-48 | 362255,18 | 8214642,57 | 911,02 |
| RAD-ALT21-C09-49 | 362265,02 | 8214647,47 | 910,99 |
| RAD-ALT21-C09-50 | 362280,72 | 8214660,38 | 910,98 |
| RAD-ALT21-C09-51 | 362286,36 | 8214668,54 | 911,00 |
| RAD-ALT21-C09-52 | 362294,16 | 8214676,19 | 911,00 |
| RAD-ALT21-C09-53 | 362301,92 | 8214683,49 | 910,98 |
| RAD-ALT21-C09-54 | 362307,97 | 8214691,70 | 911,00 |
| RAD-ALT21-C09-55 | 362313,94 | 8214700,75 | 911,01 |
| RAD-ALT21-C09-56 | 362320,41 | 8214709,45 | 911,01 |
| RAD-ALT21-C09-57 | 362325,67 | 8214717,91 | 911,01 |
| RAD-ALT21-C09-58 | 362332,93 | 8214724,80 | 911,01 |
| RAD-ALT21-C09-59 | 362342,07 | 8214730,58 | 911,02 |
| RAD-ALT21-C09-60 | 362478,80 | 8214866,28 | 911,00 |
| RAD-ALT21-C09-61 | 362467,79 | 8214860,37 | 911,00 |
| RAD-ALT21-C09-62 | 362458,20 | 8214852,95 | 911,00 |
| RAD-ALT21-C09-63 | 362449,51 | 8214845,60 | 911,00 |
| RAD-ALT21-C09-64 | 362440,50 | 8214837,05 | 910,98 |
| RAD-ALT21-C09-65 | 362432,68 | 8214828,96 | 911,02 |
| RAD-ALT21-C09-66 | 362423,93 | 8214820,96 | 911,01 |
| RAD-ALT21-C09-67 | 362416,88 | 8214813,26 | 911,01 |
| RAD-ALT21-C09-68 | 362407,56 | 8214804,37 | 911,01 |
| RAD-ALT21-C09-69 | 362400,62 | 8214794,50 | 910,99 |
| RAD-ALT21-C09-70 | 362393,37 | 8214785,76 | 910,99 |
| RAD-ALT21-C09-71 | 362384,71 | 8214777,89 | 911,00 |
| RAD-ALT21-C09-72 | 362377,73 | 8214769,54 | 910,99 |
| RAD-ALT21-C09-73 | 362371,80 | 8214760,08 | 910,99 |
| RAD-ALT21-C09-74 | 362364,67 | 8214752,12 | 911,00 |
| RAD-ALT21-C09-75 | 362357,22 | 8214743,41 | 910,99 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C09-76 | 362350,57 | 8214736,32 | 910,99 |
| CURVA 10 | | | |
| RAD-ALT21-C10-01 | 362160,90 | 8214463,39 | 908,81 |
| RAD-ALT21-C10-02 | 362152,99 | 8214455,63 | 908,82 |
| RAD-ALT21-C10-03 | 362146,34 | 8214446,48 | 908,79 |
| RAD-ALT21-C10-04 | 362138,86 | 8214438,49 | 908,80 |
| RAD-ALT21-C10-05 | 362131,90 | 8214430,67 | 908,80 |
| RAD-ALT21-C10-06 | 362126,38 | 8214418,18 | 908,82 |
| RAD-ALT21-C10-07 | 362120,99 | 8214411,67 | 908,79 |
| RAD-ALT21-C10-08 | 362112,24 | 8214401,96 | 908,81 |
| RAD-ALT21-C10-09 | 362104,89 | 8214394,93 | 908,79 |
| RAD-ALT21-C10-10 | 362096,59 | 8214388,58 | 908,80 |
| RAD-ALT21-C10-11 | 362089,87 | 8214383,48 | 908,80 |
| RAD-ALT21-C10-12 | 362082,25 | 8214377,22 | 908,79 |
| RAD-ALT21-C10-13 | 362073,55 | 8214369,57 | 908,81 |
| RAD-ALT21-C10-14 | 362066,49 | 8214363,09 | 908,81 |
| RAD-ALT21-C10-15 | 362059,92 | 8214355,54 | 908,82 |
| RAD-ALT21-C10-16 | 362052,66 | 8214347,69 | 908,79 |
| RAD-ALT21-C10-17 | 362045,30 | 8214340,83 | 908,79 |
| RAD-ALT21-C10-18 | 362038,31 | 8214333,99 | 908,81 |
| RAD-ALT21-C10-19 | 362031,01 | 8214326,92 | 908,80 |
| RAD-ALT21-C10-20 | 362024,12 | 8214318,73 | 908,80 |
| RAD-ALT21-C10-21 | 362015,49 | 8214312,14 | 908,80 |
| RAD-ALT21-C10-22 | 362005,76 | 8214307,56 | 908,80 |
| RAD-ALT21-C10-23 | 361997,33 | 8214300,94 | 908,82 |
| RAD-ALT21-C10-24 | 361987,98 | 8214298,49 | 908,79 |
| RAD-ALT21-C10-25 | 361977,08 | 8214298,19 | 908,82 |
| RAD-ALT21-C10-26 | 361966,49 | 8214297,79 | 908,82 |
| RAD-ALT21-C10-27 | 361955,97 | 8214296,41 | 908,80 |
| RAD-ALT21-C10-28 | 361945,62 | 8214295,11 | 908,79 |
| RAD-ALT21-C10-29 | 361936,47 | 8214291,28 | 908,80 |
| RAD-ALT21-C10-30 | 361927,01 | 8214287,38 | 908,81 |
| RAD-ALT21-C10-31 | 362363,21 | 8214668,41 | 908,81 |
| RAD-ALT21-C10-32 | 362355,70 | 8214660,64 | 908,80 |
| RAD-ALT21-C10-33 | 362349,77 | 8214652,08 | 908,79 |
| RAD-ALT21-C10-34 | 362342,60 | 8214644,78 | 908,79 |
| RAD-ALT21-C10-35 | 362336,11 | 8214636,39 | 908,80 |
| RAD-ALT21-C10-36 | 362328,15 | 8214628,57 | 908,79 |
| RAD-ALT21-C10-37 | 362318,93 | 8214622,11 | 908,80 |
| RAD-ALT21-C10-38 | 362311,37 | 8214615,09 | 908,80 |
| RAD-ALT21-C10-39 | 362304,20 | 8214606,38 | 908,81 |
| RAD-ALT21-C10-40 | 362298,65 | 8214599,02 | 908,79 |
| RAD-ALT21-C10-41 | 362292,92 | 8214591,57 | 908,80 |
| RAD-ALT21-C10-42 | 362285,08 | 8214584,36 | 908,80 |
| RAD-ALT21-C10-43 | 362277,10 | 8214576,50 | 908,79 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C10-44 | 362269,24 | 8214569,61 | 908,81 |
| RAD-ALT21-C10-45 | 362263,01 | 8214561,65 | 908,80 |
| RAD-ALT21-C10-46 | 362256,62 | 8214553,74 | 908,81 |
| RAD-ALT21-C10-47 | 362250,60 | 8214545,61 | 908,79 |
| RAD-ALT21-C10-48 | 362241,05 | 8214540,53 | 908,80 |
| RAD-ALT21-C10-49 | 362234,62 | 8214532,86 | 908,81 |
| RAD-ALT21-C10-50 | 362227,48 | 8214525,49 | 908,80 |
| RAD-ALT21-C10-51 | 362219,81 | 8214518,67 | 908,80 |
| RAD-ALT21-C10-52 | 362210,21 | 8214512,88 | 908,81 |
| RAD-ALT21-C10-53 | 362202,50 | 8214506,26 | 908,80 |
| RAD-ALT21-C10-54 | 362195,33 | 8214498,58 | 908,79 |
| RAD-ALT21-C10-55 | 362186,23 | 8214491,46 | 908,79 |
| RAD-ALT21-C10-56 | 362179,99 | 8214484,00 | 908,81 |
| RAD-ALT21-C10-57 | 362172,17 | 8214474,84 | 908,80 |
| RAD-ALT21-C10-58 | 362368,57 | 8214677,87 | 908,80 |
| RAD-ALT21-C10-59 | 362374,97 | 8214688,73 | 908,81 |
| RAD-ALT21-C10-60 | 362381,87 | 8214697,07 | 908,81 |
| RAD-ALT21-C10-61 | 362389,25 | 8214704,63 | 908,81 |
| RAD-ALT21-C10-62 | 362397,08 | 8214711,49 | 908,81 |
| RAD-ALT21-C10-63 | 362404,46 | 8214719,26 | 908,79 |
| RAD-ALT21-C10-64 | 362412,09 | 8214727,48 | 908,81 |
| RAD-ALT21-C10-65 | 362419,38 | 8214735,68 | 908,80 |
| RAD-ALT21-C10-66 | 362426,01 | 8214743,57 | 908,79 |
| RAD-ALT21-C10-67 | 362435,07 | 8214752,09 | 908,79 |
| RAD-ALT21-C10-68 | 362439,35 | 8214762,00 | 908,79 |
| RAD-ALT21-C10-69 | 362446,88 | 8214769,76 | 908,81 |
| RAD-ALT21-C10-70 | 362452,11 | 8214778,47 | 908,82 |
| RAD-ALT21-C10-71 | 362458,66 | 8214786,31 | 908,81 |
| RAD-ALT21-C10-72 | 362465,00 | 8214794,62 | 908,82 |
| RAD-ALT21-C10-73 | 362471,54 | 8214802,37 | 908,79 |
| RAD-ALT21-C10-74 | 362481,93 | 8214807,86 | 908,79 |
| RAD-ALT21-C10-75 | 362489,28 | 8214815,39 | 908,80 |
| RAD-ALT21-C10-76 | 362497,12 | 8214823,36 | 908,80 |
| RAD-ALT21-C10-77 | 362504,67 | 8214832,46 | 908,80 |
| RAD-ALT21-C10-78 | 362512,10 | 8214839,73 | 908,80 |
| RAD-ALT21-C10-79 | 362517,93 | 8214849,40 | 908,81 |
| RAD-ALT21-C10-80 | 362526,91 | 8214856,80 | 908,79 |
| RAD-ALT21-C10-81 | 362535,59 | 8214864,03 | 908,80 |
| RAD-ALT21-C10-82 | 362544,35 | 8214872,07 | 908,80 |
| RAD-ALT21-C10-83 | 362555,41 | 8214879,45 | 908,82 |
| CURVA 11 | | | |
| RAD-ALT21-C11-01 | 361963,57 | 8214275,50 | 906,00 |
| RAD-ALT21-C11-02 | 361973,67 | 8214278,81 | 906,01 |
| RAD-ALT21-C11-03 | 361983,28 | 8214279,56 | 906,02 |
| RAD-ALT21-C11-04 | 361993,36 | 8214278,59 | 906,00 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C11-05 | 362003,26 | 8214280,21 | 906,00 |
| RAD-ALT21-C11-06 | 362014,40 | 8214282,32 | 906,00 |
| RAD-ALT21-C11-07 | 362024,36 | 8214286,31 | 905,98 |
| RAD-ALT21-C11-08 | 362034,35 | 8214289,44 | 905,99 |
| RAD-ALT21-C11-09 | 362043,45 | 8214294,87 | 905,99 |
| RAD-ALT21-C11-10 | 362053,67 | 8214300,47 | 906,00 |
| RAD-ALT21-C11-11 | 362061,30 | 8214306,54 | 905,98 |
| RAD-ALT21-C11-12 | 362069,13 | 8214314,47 | 906,02 |
| RAD-ALT21-C11-13 | 362077,91 | 8214320,61 | 906,02 |
| RAD-ALT21-C11-14 | 362087,32 | 8214326,12 | 905,99 |
| RAD-ALT21-C11-15 | 362097,06 | 8214334,24 | 906,00 |
| RAD-ALT21-C11-16 | 362105,26 | 8214340,57 | 906,01 |
| RAD-ALT21-C11-17 | 362115,08 | 8214347,58 | 906,03 |
| RAD-ALT21-C11-18 | 362123,75 | 8214360,32 | 906,06 |
| RAD-ALT21-C11-19 | 362131,37 | 8214367,15 | 906,03 |
| RAD-ALT21-C11-20 | 362139,98 | 8214373,93 | 906,02 |
| RAD-ALT21-C11-21 | 362148,53 | 8214380,60 | 905,99 |
| RAD-ALT21-C11-22 | 362155,29 | 8214387,46 | 906,00 |
| RAD-ALT21-C11-23 | 362163,14 | 8214395,64 | 906,01 |
| RAD-ALT21-C11-24 | 362171,28 | 8214403,67 | 906,00 |
| RAD-ALT21-C11-25 | 362176,69 | 8214413,61 | 905,99 |
| RAD-ALT21-C11-26 | 362185,18 | 8214422,42 | 906,02 |
| RAD-ALT21-C11-27 | 362192,05 | 8214428,68 | 906,00 |
| RAD-ALT21-C11-28 | 362198,43 | 8214434,27 | 905,99 |
| RAD-ALT21-C11-29 | 362204,80 | 8214443,06 | 906,00 |
| RAD-ALT21-C11-30 | 362212,67 | 8214450,73 | 905,99 |
| RAD-ALT21-C11-31 | 362221,10 | 8214456,48 | 906,02 |
| RAD-ALT21-C11-32 | 362229,39 | 8214462,96 | 906,01 |
| RAD-ALT21-C11-33 | 362237,61 | 8214468,72 | 906,01 |
| RAD-ALT21-C11-34 | 362247,22 | 8214473,46 | 905,99 |
| RAD-ALT21-C11-35 | 362253,82 | 8214479,41 | 906,02 |
| RAD-ALT21-C11-36 | 362264,08 | 8214485,66 | 906,01 |
| RAD-ALT21-C11-37 | 362272,53 | 8214491,06 | 906,01 |
| RAD-ALT21-C11-38 | 362279,39 | 8214496,69 | 906,01 |
| RAD-ALT21-C11-39 | 362286,86 | 8214502,40 | 906,00 |
| RAD-ALT21-C11-40 | 362295,05 | 8214508,29 | 906,01 |
| RAD-ALT21-C11-41 | 362302,83 | 8214515,54 | 905,99 |
| RAD-ALT21-C11-42 | 362308,33 | 8214523,92 | 906,02 |
| RAD-ALT21-C11-43 | 362316,18 | 8214532,47 | 906,01 |
| RAD-ALT21-C11-44 | 362324,43 | 8214537,72 | 906,01 |
| RAD-ALT21-C11-45 | 362332,05 | 8214543,93 | 905,98 |
| RAD-ALT21-C11-46 | 362339,20 | 8214550,21 | 905,99 |
| RAD-ALT21-C11-47 | 362345,53 | 8214558,05 | 906,00 |
| RAD-ALT21-C11-48 | 362352,28 | 8214566,03 | 906,01 |
| RAD-ALT21-C11-49 | 362359,23 | 8214572,81 | 906,00 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C11-50 | 362363,85 | 8214580,48 | 906,02 |
| RAD-ALT21-C11-51 | 362371,01 | 8214588,00 | 906,00 |
| RAD-ALT21-C11-52 | 362377,46 | 8214595,57 | 906,01 |
| RAD-ALT21-C11-53 | 362383,04 | 8214605,07 | 906,00 |
| RAD-ALT21-C11-54 | 362390,62 | 8214611,02 | 905,99 |
| RAD-ALT21-C11-55 | 362396,57 | 8214619,31 | 905,98 |
| RAD-ALT21-C11-56 | 362403,46 | 8214627,83 | 906,02 |
| RAD-ALT21-C11-57 | 362407,88 | 8214637,25 | 906,00 |
| RAD-ALT21-C11-58 | 362414,78 | 8214645,41 | 906,03 |
| RAD-ALT21-C11-59 | 362423,22 | 8214651,54 | 906,00 |
| RAD-ALT21-C11-60 | 362428,34 | 8214660,99 | 906,01 |
| RAD-ALT21-C11-61 | 362435,72 | 8214668,33 | 906,01 |
| RAD-ALT21-C11-62 | 362441,83 | 8214677,76 | 906,00 |
| RAD-ALT21-C11-63 | 362619,14 | 8214888,30 | 906,01 |
| RAD-ALT21-C11-64 | 362610,06 | 8214880,87 | 906,00 |
| RAD-ALT21-C11-65 | 362600,28 | 8214872,48 | 906,01 |
| RAD-ALT21-C11-66 | 362592,98 | 8214863,16 | 905,98 |
| RAD-ALT21-C11-67 | 362584,53 | 8214853,96 | 905,99 |
| RAD-ALT21-C11-68 | 362576,00 | 8214846,57 | 906,01 |
| RAD-ALT21-C11-69 | 362568,57 | 8214839,24 | 906,00 |
| RAD-ALT21-C11-70 | 362560,71 | 8214830,31 | 905,99 |
| RAD-ALT21-C11-71 | 362553,83 | 8214821,83 | 905,99 |
| RAD-ALT21-C11-72 | 362545,18 | 8214814,46 | 905,99 |
| RAD-ALT21-C11-73 | 362539,52 | 8214807,94 | 906,01 |
| RAD-ALT21-C11-74 | 362531,77 | 8214800,14 | 906,00 |
| RAD-ALT21-C11-75 | 362525,65 | 8214790,07 | 906,02 |
| RAD-ALT21-C11-76 | 362520,07 | 8214782,10 | 905,99 |
| RAD-ALT21-C11-77 | 362511,73 | 8214771,28 | 905,98 |
| RAD-ALT21-C11-78 | 362503,66 | 8214763,77 | 905,99 |
| RAD-ALT21-C11-79 | 362497,41 | 8214756,40 | 906,00 |
| RAD-ALT21-C11-80 | 362489,34 | 8214747,64 | 906,01 |
| RAD-ALT21-C11-81 | 362481,40 | 8214740,82 | 906,00 |
| RAD-ALT21-C11-82 | 362477,68 | 8214731,21 | 906,01 |
| RAD-ALT21-C11-83 | 362472,23 | 8214721,27 | 905,98 |
| RAD-ALT21-C11-84 | 362465,50 | 8214712,97 | 905,99 |
| RAD-ALT21-C11-85 | 362458,79 | 8214704,34 | 906,02 |
| RAD-ALT21-C11-86 | 362453,66 | 8214696,06 | 906,00 |
| RAD-ALT21-C11-87 | 362447,12 | 8214687,51 | 906,02 |
| CURVA 12 | | | |
| RAD-ALT21-C12-01 | 362207,99 | 8214394,93 | 903,39 |
| RAD-ALT21-C12-02 | 362198,66 | 8214385,82 | 903,40 |
| RAD-ALT21-C12-03 | 362191,65 | 8214378,89 | 903,40 |
| RAD-ALT21-C12-04 | 362183,94 | 8214371,95 | 903,40 |
| RAD-ALT21-C12-05 | 362176,23 | 8214360,89 | 903,41 |
| RAD-ALT21-C12-06 | 362166,49 | 8214354,35 | 903,42 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C12-07 | 362159,54 | 8214347,78 | 903,41 |
| RAD-ALT21-C12-08 | 362152,07 | 8214340,83 | 903,40 |
| RAD-ALT21-C12-09 | 362144,11 | 8214335,20 | 903,40 |
| RAD-ALT21-C12-10 | 362136,05 | 8214329,26 | 903,39 |
| RAD-ALT21-C12-11 | 362127,20 | 8214322,19 | 903,41 |
| RAD-ALT21-C12-12 | 362117,13 | 8214315,27 | 903,41 |
| RAD-ALT21-C12-13 | 362108,11 | 8214306,21 | 903,41 |
| RAD-ALT21-C12-14 | 362099,93 | 8214299,55 | 903,40 |
| RAD-ALT21-C12-15 | 362090,08 | 8214294,04 | 903,38 |
| RAD-ALT21-C12-16 | 362080,75 | 8214289,56 | 903,41 |
| RAD-ALT21-C12-17 | 362072,04 | 8214283,75 | 903,40 |
| RAD-ALT21-C12-18 | 362061,56 | 8214279,21 | 903,41 |
| RAD-ALT21-C12-19 | 362051,52 | 8214275,04 | 903,41 |
| RAD-ALT21-C12-20 | 362040,91 | 8214270,76 | 903,40 |
| RAD-ALT21-C12-21 | 362031,12 | 8214268,09 | 903,42 |
| RAD-ALT21-C12-22 | 362021,75 | 8214265,67 | 903,39 |
| RAD-ALT21-C12-23 | 362011,20 | 8214264,68 | 903,39 |
| RAD-ALT21-C12-24 | 362001,42 | 8214264,19 | 903,42 |
| RAD-ALT21-C12-25 | 361990,46 | 8214259,68 | 903,38 |
| RAD-ALT21-C12-26 | 362449,74 | 8214609,84 | 903,39 |
| RAD-ALT21-C12-27 | 362443,38 | 8214601,22 | 903,39 |
| RAD-ALT21-C12-28 | 362437,56 | 8214591,97 | 903,39 |
| RAD-ALT21-C12-29 | 362430,39 | 8214585,03 | 903,39 |
| RAD-ALT21-C12-30 | 362423,93 | 8214577,30 | 903,40 |
| RAD-ALT21-C12-31 | 362418,48 | 8214568,98 | 903,39 |
| RAD-ALT21-C12-32 | 362411,66 | 8214561,51 | 903,39 |
| RAD-ALT21-C12-33 | 362404,55 | 8214554,08 | 903,42 |
| RAD-ALT21-C12-34 | 362398,20 | 8214547,12 | 903,40 |
| RAD-ALT21-C12-35 | 362392,54 | 8214539,21 | 903,42 |
| RAD-ALT21-C12-36 | 362387,31 | 8214530,78 | 903,40 |
| RAD-ALT21-C12-37 | 362381,69 | 8214521,76 | 903,40 |
| RAD-ALT21-C12-38 | 362374,72 | 8214514,37 | 903,39 |
| RAD-ALT21-C12-39 | 362367,47 | 8214508,88 | 903,40 |
| RAD-ALT21-C12-40 | 362360,77 | 8214501,91 | 903,41 |
| RAD-ALT21-C12-41 | 362354,54 | 8214495,62 | 903,40 |
| RAD-ALT21-C12-42 | 362347,64 | 8214488,50 | 903,39 |
| RAD-ALT21-C12-43 | 362339,90 | 8214481,00 | 903,39 |
| RAD-ALT21-C12-44 | 362331,83 | 8214475,11 | 903,39 |
| RAD-ALT21-C12-45 | 362323,95 | 8214469,82 | 903,40 |
| RAD-ALT21-C12-46 | 362315,41 | 8214465,23 | 903,40 |
| RAD-ALT21-C12-47 | 362306,62 | 8214460,30 | 903,40 |
| RAD-ALT21-C12-48 | 362296,38 | 8214456,65 | 903,39 |
| RAD-ALT21-C12-49 | 362286,99 | 8214452,01 | 903,39 |
| RAD-ALT21-C12-50 | 362277,69 | 8214447,68 | 903,39 |
| RAD-ALT21-C12-51 | 362268,25 | 8214443,21 | 903,39 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C12-52 | 362259,56 | 8214437,57 | 903,39 |
| RAD-ALT21-C12-53 | 362251,07 | 8214432,07 | 903,41 |
| RAD-ALT21-C12-54 | 362244,25 | 8214427,02 | 903,39 |
| RAD-ALT21-C12-55 | 362235,55 | 8214422,82 | 903,40 |
| RAD-ALT21-C12-56 | 362228,99 | 8214415,79 | 903,41 |
| RAD-ALT21-C12-57 | 362221,55 | 8214409,49 | 903,41 |
| RAD-ALT21-C12-58 | 362214,87 | 8214402,08 | 903,40 |
| RAD-ALT21-C12-59 | 362454,84 | 8214619,59 | 903,39 |
| RAD-ALT21-C12-60 | 362458,56 | 8214629,56 | 903,40 |
| RAD-ALT21-C12-61 | 362466,04 | 8214640,01 | 903,42 |
| RAD-ALT21-C12-62 | 362471,48 | 8214650,06 | 903,41 |
| RAD-ALT21-C12-63 | 362478,29 | 8214660,55 | 903,41 |
| RAD-ALT21-C12-64 | 362484,62 | 8214670,08 | 903,41 |
| RAD-ALT21-C12-65 | 362490,57 | 8214678,45 | 903,41 |
| RAD-ALT21-C12-66 | 362498,20 | 8214687,74 | 903,39 |
| RAD-ALT21-C12-67 | 362503,80 | 8214696,51 | 903,40 |
| RAD-ALT21-C12-68 | 362507,59 | 8214705,63 | 903,41 |
| RAD-ALT21-C12-69 | 362511,90 | 8214714,81 | 903,39 |
| RAD-ALT21-C12-70 | 362517,96 | 8214723,30 | 903,40 |
| RAD-ALT21-C12-71 | 362523,46 | 8214732,81 | 903,40 |
| RAD-ALT21-C12-72 | 362529,33 | 8214741,30 | 903,39 |
| RAD-ALT21-C12-73 | 362533,77 | 8214752,08 | 903,39 |
| RAD-ALT21-C12-74 | 362541,95 | 8214759,04 | 903,41 |
| RAD-ALT21-C12-75 | 362548,50 | 8214767,64 | 903,41 |
| RAD-ALT21-C12-76 | 362555,54 | 8214775,89 | 903,41 |
| RAD-ALT21-C12-77 | 362563,30 | 8214783,52 | 903,39 |
| RAD-ALT21-C12-78 | 362569,87 | 8214791,74 | 903,41 |
| RAD-ALT21-C12-79 | 362576,71 | 8214800,97 | 903,40 |
| RAD-ALT21-C12-80 | 362583,96 | 8214807,89 | 903,39 |
| RAD-ALT21-C12-81 | 362589,58 | 8214817,45 | 903,39 |
| RAD-ALT21-C12-82 | 362596,55 | 8214824,27 | 903,41 |
| RAD-ALT21-C12-83 | 362604,53 | 8214833,42 | 903,41 |
| RAD-ALT21-C12-84 | 362613,34 | 8214842,09 | 903,41 |
| RAD-ALT21-C12-85 | 362619,11 | 8214850,73 | 903,41 |
| RAD-ALT21-C12-86 | 362624,95 | 8214856,36 | 903,39 |
| RAD-ALT21-C12-87 | 362630,65 | 8214863,36 | 903,42 |
| RAD-ALT21-C12-88 | 362639,23 | 8214872,48 | 903,41 |
| RAD-ALT21-C12-89 | 362647,67 | 8214880,67 | 903,40 |
| RAD-ALT21-C12-90 | 362655,32 | 8214890,55 | 903,40 |
| RAD-ALT21-C12-91 | 362663,62 | 8214901,12 | 903,41 |
| CURVA 13 | | | |
| RAD-ALT21-C13-01 | 362228,57 | 8214364,78 | 900,70 |
| RAD-ALT21-C13-02 | 362219,73 | 8214357,89 | 900,69 |
| RAD-ALT21-C13-03 | 362211,48 | 8214351,43 | 900,71 |
| RAD-ALT21-C13-04 | 362203,83 | 8214344,85 | 900,71 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C13-05 | 362196,11 | 8214339,68 | 900,69 |
| RAD-ALT21-C13-06 | 362189,85 | 8214332,24 | 900,70 |
| RAD-ALT21-C13-07 | 362181,54 | 8214326,51 | 900,70 |
| RAD-ALT21-C13-08 | 362174,43 | 8214319,48 | 900,71 |
| RAD-ALT21-C13-09 | 362166,93 | 8214311,42 | 900,70 |
| RAD-ALT21-C13-10 | 362158,21 | 8214306,24 | 900,71 |
| RAD-ALT21-C13-11 | 362149,83 | 8214300,45 | 900,71 |
| RAD-ALT21-C13-12 | 362141,06 | 8214294,50 | 900,71 |
| RAD-ALT21-C13-13 | 362132,07 | 8214288,82 | 900,69 |
| RAD-ALT21-C13-14 | 362124,29 | 8214283,94 | 900,70 |
| RAD-ALT21-C13-15 | 362115,47 | 8214278,91 | 900,70 |
| RAD-ALT21-C13-16 | 362100,41 | 8214270,77 | 900,70 |
| RAD-ALT21-C13-17 | 362237,61 | 8214370,62 | 900,69 |
| RAD-ALT21-C13-18 | 362248,69 | 8214375,23 | 900,70 |
| RAD-ALT21-C13-19 | 362259,16 | 8214381,58 | 900,71 |
| RAD-ALT21-C13-20 | 362266,10 | 8214390,06 | 900,71 |
| RAD-ALT21-C13-21 | 362273,58 | 8214396,89 | 900,71 |
| RAD-ALT21-C13-22 | 362280,60 | 8214401,78 | 900,70 |
| RAD-ALT21-C13-23 | 362289,38 | 8214407,57 | 900,71 |
| RAD-ALT21-C13-24 | 362298,58 | 8214412,89 | 900,69 |
| RAD-ALT21-C13-25 | 362305,42 | 8214418,43 | 900,71 |
| RAD-ALT21-C13-26 | 362310,93 | 8214424,23 | 900,70 |
| RAD-ALT21-C13-27 | 362326,53 | 8214430,39 | 900,71 |
| RAD-ALT21-C13-28 | 362337,37 | 8214433,79 | 900,71 |
| RAD-ALT21-C13-29 | 362346,84 | 8214438,31 | 900,71 |
| RAD-ALT21-C13-30 | 362358,71 | 8214441,13 | 900,70 |
| RAD-ALT21-C13-31 | 362368,21 | 8214446,40 | 900,70 |
| RAD-ALT21-C13-32 | 362377,08 | 8214453,99 | 900,69 |
| RAD-ALT21-C13-33 | 362383,65 | 8214459,97 | 900,70 |
| RAD-ALT21-C13-34 | 362391,70 | 8214469,29 | 900,69 |
| RAD-ALT21-C13-35 | 362399,51 | 8214476,53 | 900,72 |
| RAD-ALT21-C13-36 | 362408,48 | 8214483,96 | 900,69 |
| RAD-ALT21-C13-37 | 362415,97 | 8214491,12 | 900,70 |
| RAD-ALT21-C13-38 | 362422,82 | 8214498,26 | 900,68 |
| RAD-ALT21-C13-39 | 362430,30 | 8214505,69 | 900,71 |
| RAD-ALT21-C13-40 | 362438,08 | 8214514,58 | 900,71 |
| RAD-ALT21-C13-41 | 362446,22 | 8214522,33 | 900,70 |
| RAD-ALT21-C13-42 | 362449,70 | 8214533,24 | 900,70 |
| RAD-ALT21-C13-43 | 362452,20 | 8214540,60 | 900,70 |
| RAD-ALT21-C13-44 | 362458,01 | 8214548,71 | 900,70 |
| RAD-ALT21-C13-45 | 362464,86 | 8214557,90 | 900,69 |
| RAD-ALT21-C13-46 | 362468,91 | 8214566,58 | 900,71 |
| RAD-ALT21-C13-47 | 362474,85 | 8214574,58 | 900,72 |
| RAD-ALT21-C13-48 | 362481,62 | 8214582,98 | 900,70 |
| RAD-ALT21-C13-49 | 362486,71 | 8214592,77 | 900,69 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C13-50 | 362490,75 | 8214602,84 | 900,69 |
| RAD-ALT21-C13-51 | 362497,77 | 8214612,41 | 900,71 |
| RAD-ALT21-C13-52 | 362502,54 | 8214621,61 | 900,71 |
| RAD-ALT21-C13-53 | 362509,42 | 8214632,78 | 900,71 |
| RAD-ALT21-C13-54 | 362514,33 | 8214643,70 | 900,70 |
| RAD-ALT21-C13-55 | 362519,88 | 8214654,33 | 900,69 |
| RAD-ALT21-C13-56 | 362524,77 | 8214664,36 | 900,70 |
| RAD-ALT21-C13-57 | 362528,90 | 8214672,93 | 900,69 |
| RAD-ALT21-C13-58 | 362533,10 | 8214682,44 | 900,71 |
| RAD-ALT21-C13-59 | 362537,74 | 8214692,17 | 900,81 |
| RAD-ALT21-C13-60 | 362541,90 | 8214702,37 | 900,81 |
| RAD-ALT21-C13-61 | 362548,13 | 8214709,79 | 900,82 |
| RAD-ALT21-C13-62 | 362552,75 | 8214719,14 | 900,80 |
| RAD-ALT21-C13-63 | 362558,56 | 8214728,88 | 900,80 |
| RAD-ALT21-C13-64 | 362563,93 | 8214738,64 | 900,79 |
| RAD-ALT21-C13-65 | 362569,53 | 8214746,79 | 900,81 |
| RAD-ALT21-C13-66 | 362577,47 | 8214754,43 | 900,81 |
| RAD-ALT21-C13-67 | 362583,64 | 8214763,47 | 900,79 |
| RAD-ALT21-C13-68 | 362589,18 | 8214771,91 | 900,80 |
| RAD-ALT21-C13-69 | 362596,29 | 8214779,51 | 900,80 |
| RAD-ALT21-C13-70 | 362601,98 | 8214788,18 | 900,81 |
| RAD-ALT21-C13-71 | 362609,07 | 8214795,14 | 900,80 |
| RAD-ALT21-C13-72 | 362615,40 | 8214802,42 | 900,80 |
| RAD-ALT21-C13-73 | 362622,51 | 8214809,34 | 900,81 |
| RAD-ALT21-C13-74 | 362628,72 | 8214818,74 | 900,79 |
| RAD-ALT21-C13-75 | 362634,92 | 8214827,89 | 900,80 |
| RAD-ALT21-C13-76 | 362642,37 | 8214838,53 | 900,79 |
| RAD-ALT21-C13-77 | 362649,42 | 8214847,45 | 900,80 |
| RAD-ALT21-C13-78 | 362656,33 | 8214856,58 | 900,80 |
| RAD-ALT21-C13-79 | 362660,75 | 8214865,12 | 900,80 |
| RAD-ALT21-C13-80 | 362667,47 | 8214875,96 | 900,80 |
| RAD-ALT21-C13-81 | 362676,79 | 8214880,34 | 900,79 |
| RAD-ALT21-C13-82 | 362683,29 | 8214886,45 | 900,81 |
| RAD-ALT21-C13-83 | 362693,77 | 8214892,47 | 900,81 |
| RAD-ALT21-C13-84 | 362701,29 | 8214897,19 | 900,81 |
| CURVA 14 | | | |
| RAD-ALT21-C14-01 | 362428,24 | 8214436,07 | 897,39 |
| RAD-ALT21-C14-02 | 362418,90 | 8214431,57 | 897,40 |
| RAD-ALT21-C14-03 | 362410,11 | 8214424,99 | 897,41 |
| RAD-ALT21-C14-04 | 362401,89 | 8214418,94 | 897,39 |
| RAD-ALT21-C14-05 | 362393,03 | 8214414,04 | 897,40 |
| RAD-ALT21-C14-06 | 362383,95 | 8214410,11 | 897,39 |
| RAD-ALT21-C14-07 | 362374,65 | 8214404,17 | 897,40 |
| RAD-ALT21-C14-08 | 362364,61 | 8214398,99 | 897,39 |
| RAD-ALT21-C14-09 | 362354,72 | 8214395,00 | 897,39 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C14-10 | 362345,02 | 8214391,65 | 897,40 |
| RAD-ALT21-C14-11 | 362335,29 | 8214388,02 | 897,39 |
| RAD-ALT21-C14-12 | 362324,88 | 8214385,52 | 897,41 |
| RAD-ALT21-C14-13 | 362315,75 | 8214380,26 | 897,39 |
| RAD-ALT21-C14-14 | 362307,49 | 8214374,26 | 897,40 |
| RAD-ALT21-C14-15 | 362298,93 | 8214368,51 | 897,41 |
| RAD-ALT21-C14-16 | 362435,41 | 8214444,08 | 897,40 |
| RAD-ALT21-C14-17 | 362442,36 | 8214451,30 | 897,39 |
| RAD-ALT21-C14-18 | 362450,94 | 8214458,93 | 897,40 |
| RAD-ALT21-C14-19 | 362457,82 | 8214467,60 | 897,39 |
| RAD-ALT21-C14-20 | 362463,89 | 8214475,89 | 897,39 |
| RAD-ALT21-C14-21 | 362470,38 | 8214483,47 | 897,39 |
| RAD-ALT21-C14-22 | 362477,33 | 8214491,55 | 897,39 |
| RAD-ALT21-C14-23 | 362484,26 | 8214501,33 | 897,41 |
| RAD-ALT21-C14-24 | 362489,96 | 8214510,63 | 897,41 |
| RAD-ALT21-C14-25 | 362497,58 | 8214518,40 | 897,39 |
| RAD-ALT21-C14-26 | 362501,52 | 8214526,97 | 897,41 |
| RAD-ALT21-C14-27 | 362507,70 | 8214535,34 | 897,40 |
| RAD-ALT21-C14-28 | 362514,33 | 8214542,09 | 897,39 |
| RAD-ALT21-C14-29 | 362519,56 | 8214553,81 | 897,39 |
| RAD-ALT21-C14-30 | 362524,12 | 8214563,58 | 897,41 |
| RAD-ALT21-C14-31 | 362528,75 | 8214571,38 | 897,40 |
| RAD-ALT21-C14-32 | 362533,11 | 8214580,43 | 897,40 |
| RAD-ALT21-C14-33 | 362538,36 | 8214588,81 | 897,41 |
| RAD-ALT21-C14-34 | 362542,06 | 8214598,98 | 897,40 |
| RAD-ALT21-C14-35 | 362545,74 | 8214608,73 | 897,41 |
| RAD-ALT21-C14-36 | 362549,54 | 8214619,29 | 897,41 |
| RAD-ALT21-C14-37 | 362552,37 | 8214629,07 | 897,40 |
| RAD-ALT21-C14-38 | 362288,47 | 8214360,50 | 897,39 |
| RAD-ALT21-C14-39 | 362279,33 | 8214352,92 | 897,39 |
| RAD-ALT21-C14-40 | 362272,26 | 8214347,58 | 897,40 |
| RAD-ALT21-C14-41 | 362261,55 | 8214341,23 | 897,40 |
| RAD-ALT21-C14-42 | 362248,67 | 8214334,52 | 897,40 |
| RAD-ALT21-C14-43 | 362240,11 | 8214326,54 | 897,40 |
| RAD-ALT21-C14-44 | 362231,27 | 8214319,21 | 897,39 |
| RAD-ALT21-C14-45 | 362222,40 | 8214314,43 | 897,41 |
| RAD-ALT21-C14-46 | 362212,81 | 8214307,18 | 897,41 |
| RAD-ALT21-C14-47 | 362205,47 | 8214299,15 | 897,39 |
| RAD-ALT21-C14-48 | 362196,58 | 8214293,57 | 897,40 |
| RAD-ALT21-C14-49 | 362185,30 | 8214288,44 | 897,41 |
| RAD-ALT21-C14-50 | 362171,86 | 8214284,19 | 897,42 |
| RAD-ALT21-C14-51 | 362162,53 | 8214275,69 | 897,41 |
| RAD-ALT21-C14-52 | 362151,60 | 8214270,30 | 897,40 |
| RAD-ALT21-C14-53 | 362138,79 | 8214265,27 | 897,39 |
| RAD-ALT21-C14-54 | 362129,95 | 8214261,43 | 897,40 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C14-55 | 362692,03 | 8214840,13 | 897,40 |
| RAD-ALT21-C14-56 | 362683,20 | 8214832,24 | 897,40 |
| RAD-ALT21-C14-57 | 362674,41 | 8214825,53 | 897,41 |
| RAD-ALT21-C14-58 | 362665,73 | 8214819,27 | 897,41 |
| RAD-ALT21-C14-59 | 362659,70 | 8214807,36 | 897,42 |
| RAD-ALT21-C14-60 | 362652,40 | 8214798,89 | 897,41 |
| RAD-ALT21-C14-61 | 362645,53 | 8214790,35 | 897,39 |
| RAD-ALT21-C14-62 | 362639,96 | 8214781,57 | 897,40 |
| RAD-ALT21-C14-63 | 362633,10 | 8214772,97 | 897,39 |
| RAD-ALT21-C14-64 | 362625,67 | 8214765,11 | 897,40 |
| RAD-ALT21-C14-65 | 362619,03 | 8214753,82 | 897,39 |
| RAD-ALT21-C14-66 | 362612,86 | 8214744,61 | 897,39 |
| RAD-ALT21-C14-67 | 362606,95 | 8214736,36 | 897,39 |
| RAD-ALT21-C14-68 | 362600,05 | 8214726,81 | 897,39 |
| RAD-ALT21-C14-69 | 362594,32 | 8214718,49 | 897,41 |
| RAD-ALT21-C14-70 | 362589,00 | 8214709,01 | 897,40 |
| RAD-ALT21-C14-71 | 362582,69 | 8214698,90 | 897,39 |
| RAD-ALT21-C14-72 | 362576,79 | 8214687,73 | 897,39 |
| RAD-ALT21-C14-73 | 362571,08 | 8214678,25 | 897,40 |
| RAD-ALT21-C14-74 | 362564,89 | 8214669,51 | 897,40 |
| RAD-ALT21-C14-75 | 362562,63 | 8214658,68 | 897,41 |
| RAD-ALT21-C14-76 | 362558,41 | 8214648,24 | 897,41 |
| RAD-ALT21-C14-77 | 362554,77 | 8214637,16 | 897,42 |
| CURVA 15 | | | |
| RAD-ALT21-C15-01 | 362574,59 | 8214571,36 | 894,03 |
| RAD-ALT21-C15-02 | 362571,48 | 8214562,21 | 894,02 |
| RAD-ALT21-C15-03 | 362567,71 | 8214551,76 | 894,01 |
| RAD-ALT21-C15-04 | 362563,10 | 8214541,43 | 894,01 |
| RAD-ALT21-C15-05 | 362557,51 | 8214531,48 | 894,01 |
| RAD-ALT21-C15-06 | 362553,35 | 8214522,21 | 894,00 |
| RAD-ALT21-C15-07 | 362548,56 | 8214513,95 | 893,99 |
| RAD-ALT21-C15-08 | 362542,45 | 8214505,45 | 894,00 |
| RAD-ALT21-C15-09 | 362536,68 | 8214497,85 | 893,99 |
| RAD-ALT21-C15-10 | 362530,10 | 8214489,26 | 893,99 |
| RAD-ALT21-C15-11 | 362523,71 | 8214481,42 | 894,00 |
| RAD-ALT21-C15-12 | 362517,60 | 8214473,15 | 894,00 |
| RAD-ALT21-C15-13 | 362510,52 | 8214464,80 | 893,99 |
| RAD-ALT21-C15-14 | 362503,36 | 8214456,43 | 894,01 |
| RAD-ALT21-C15-15 | 362494,84 | 8214445,75 | 894,00 |
| RAD-ALT21-C15-16 | 362488,67 | 8214438,15 | 893,99 |
| RAD-ALT21-C15-17 | 362482,49 | 8214431,05 | 894,01 |
| RAD-ALT21-C15-18 | 362475,32 | 8214424,31 | 894,02 |
| RAD-ALT21-C15-19 | 362467,79 | 8214416,99 | 894,01 |
| RAD-ALT21-C15-20 | 362460,93 | 8214410,57 | 894,02 |
| RAD-ALT21-C15-21 | 362453,21 | 8214404,46 | 894,01 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C15-22 | 362443,80 | 8214398,08 | 894,01 |
| RAD-ALT21-C15-23 | 362434,91 | 8214392,28 | 893,99 |
| RAD-ALT21-C15-24 | 362424,65 | 8214388,31 | 894,01 |
| RAD-ALT21-C15-25 | 362415,20 | 8214384,03 | 893,99 |
| RAD-ALT21-C15-26 | 362405,50 | 8214381,38 | 894,02 |
| RAD-ALT21-C15-27 | 362397,37 | 8214377,96 | 894,02 |
| RAD-ALT21-C15-28 | 362386,85 | 8214374,22 | 893,99 |
| RAD-ALT21-C15-29 | 362577,46 | 8214582,15 | 894,01 |
| RAD-ALT21-C15-30 | 362579,90 | 8214592,22 | 894,01 |
| RAD-ALT21-C15-31 | 362581,91 | 8214602,91 | 894,02 |
| RAD-ALT21-C15-32 | 362585,33 | 8214614,31 | 894,02 |
| RAD-ALT21-C15-33 | 362588,45 | 8214623,21 | 893,99 |
| RAD-ALT21-C15-34 | 362590,77 | 8214633,55 | 893,99 |
| RAD-ALT21-C15-35 | 362593,68 | 8214644,73 | 894,02 |
| RAD-ALT21-C15-36 | 362596,61 | 8214655,14 | 893,98 |
| RAD-ALT21-C15-37 | 362599,99 | 8214663,16 | 894,02 |
| RAD-ALT21-C15-38 | 362605,67 | 8214673,25 | 894,00 |
| RAD-ALT21-C15-39 | 362610,97 | 8214682,97 | 893,99 |
| RAD-ALT21-C15-40 | 362615,16 | 8214692,52 | 893,99 |
| RAD-ALT21-C15-41 | 362620,77 | 8214702,19 | 894,00 |
| RAD-ALT21-C15-42 | 362626,15 | 8214711,82 | 894,00 |
| RAD-ALT21-C15-43 | 362633,91 | 8214719,82 | 894,01 |
| RAD-ALT21-C15-44 | 362640,04 | 8214728,93 | 894,02 |
| RAD-ALT21-C15-45 | 362652,47 | 8214746,03 | 894,00 |
| RAD-ALT21-C15-46 | 362660,76 | 8214756,25 | 894,00 |
| RAD-ALT21-C15-47 | 362668,66 | 8214767,98 | 893,99 |
| RAD-ALT21-C15-48 | 362680,08 | 8214775,44 | 894,00 |
| CURVA 16 | | | |
| RAD-ALT21-C16-01 | 362376,58 | 8214837,11 | 912,50 |
| RAD-ALT21-C16-02 | 362368,14 | 8214831,60 | 912,52 |
| RAD-ALT21-C16-03 | 362359,01 | 8214823,26 | 912,50 |
| RAD-ALT21-C16-04 | 362350,64 | 8214817,56 | 912,50 |
| RAD-ALT21-C16-05 | 362345,73 | 8214810,53 | 912,50 |
| RAD-ALT21-C16-06 | 362337,30 | 8214802,38 | 912,50 |
| RAD-ALT21-C16-07 | 362329,41 | 8214793,19 | 912,51 |
| RAD-ALT21-C16-08 | 362323,61 | 8214783,39 | 912,50 |
| RAD-ALT21-C16-09 | 362318,60 | 8214773,21 | 912,50 |
| RAD-ALT21-C16-10 | 362309,63 | 8214765,89 | 912,50 |
| RAD-ALT21-C16-11 | 362301,81 | 8214757,71 | 912,49 |
| RAD-ALT21-C16-12 | 362296,40 | 8214749,11 | 912,50 |
| RAD-ALT21-C16-13 | 362290,23 | 8214739,31 | 912,50 |
| RAD-ALT21-C16-14 | 362281,91 | 8214731,07 | 912,49 |
| RAD-ALT21-C16-15 | 362273,33 | 8214724,99 | 912,49 |
| RAD-ALT21-C16-16 | 362264,26 | 8214719,74 | 912,49 |
| RAD-ALT21-C16-17 | 362255,82 | 8214714,73 | 912,51 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C16-18 | 362246,89 | 8214708,45 | 912,50 |
| RAD-ALT21-C16-19 | 362240,12 | 8214700,56 | 912,50 |
| RAD-ALT21-C16-20 | 362231,63 | 8214694,04 | 912,50 |
| RAD-ALT21-C16-21 | 362221,64 | 8214688,82 | 912,49 |
| RAD-ALT21-C16-22 | 362212,10 | 8214683,66 | 912,51 |
| RAD-ALT21-C16-23 | 362204,28 | 8214676,07 | 912,50 |
| RAD-ALT21-C16-24 | 362198,51 | 8214669,46 | 912,50 |
| RAD-ALT21-C16-25 | 362190,70 | 8214664,53 | 912,49 |
| RAD-ALT21-C16-26 | 362181,85 | 8214657,88 | 912,51 |
| RAD-ALT21-C16-27 | 362171,88 | 8214651,78 | 912,48 |
| RAD-ALT21-C16-28 | 362162,51 | 8214646,01 | 912,50 |
| RAD-ALT21-C16-29 | 362153,33 | 8214639,47 | 912,50 |
| RAD-ALT21-C16-30 | 362145,11 | 8214630,64 | 912,50 |
| RAD-ALT21-C16-31 | 362137,75 | 8214621,83 | 912,49 |
| RAD-ALT21-C16-32 | 362135,30 | 8214607,21 | 912,52 |
| RAD-ALT21-C16-33 | 362128,20 | 8214598,15 | 912,50 |
| RAD-ALT21-C16-34 | 362122,64 | 8214588,94 | 912,48 |
| RAD-ALT21-C16-35 | 362115,29 | 8214580,51 | 912,50 |
| RAD-ALT21-C16-36 | 362108,72 | 8214570,30 | 912,51 |
| RAD-ALT21-C16-37 | 362099,39 | 8214558,85 | 912,50 |
| RAD-ALT21-C16-38 | 362094,41 | 8214550,12 | 912,51 |
| RAD-ALT21-C16-39 | 362087,45 | 8214540,96 | 912,51 |
| RAD-ALT21-C16-40 | 362081,39 | 8214531,52 | 912,50 |
| RAD-ALT21-C16-41 | 362074,32 | 8214521,66 | 912,49 |
| RAD-ALT21-C16-42 | 362068,00 | 8214513,29 | 912,50 |
| RAD-ALT21-C16-43 | 362061,74 | 8214504,90 | 912,50 |
| RAD-ALT21-C16-44 | 362055,97 | 8214496,52 | 912,50 |
| RAD-ALT21-C16-45 | 362051,83 | 8214487,35 | 912,51 |
| RAD-ALT21-C16-46 | 362046,77 | 8214477,70 | 912,50 |
| RAD-ALT21-C16-47 | 362041,16 | 8214468,57 | 912,50 |
| RAD-ALT21-C16-48 | 362034,95 | 8214459,50 | 912,49 |
| RAD-ALT21-C16-49 | 362029,09 | 8214449,87 | 912,49 |
| RAD-ALT21-C16-50 | 362022,50 | 8214441,18 | 912,49 |
| RAD-ALT21-C16-51 | 362017,32 | 8214431,91 | 912,49 |
| RAD-ALT21-C16-52 | 362010,96 | 8214423,04 | 912,50 |
| RAD-ALT21-C16-53 | 362004,83 | 8214414,34 | 912,51 |
| RAD-ALT21-C16-54 | 361998,73 | 8214405,92 | 912,50 |
| RAD-ALT21-C16-55 | 361991,07 | 8214397,49 | 912,49 |
| RAD-ALT21-C16-56 | 361983,89 | 8214389,32 | 912,48 |
| RAD-ALT21-C16-57 | 361978,93 | 8214379,99 | 912,50 |
| RAD-ALT21-C16-58 | 361973,79 | 8214370,23 | 912,51 |
| RAD-ALT21-C16-59 | 361968,37 | 8214360,93 | 912,51 |
| RAD-ALT21-C16-60 | 361963,28 | 8214350,68 | 912,50 |
| RAD-ALT21-C16-61 | 361957,03 | 8214341,61 | 912,50 |
| RAD-ALT21-C16-62 | 361948,11 | 8214334,76 | 912,50 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C16-63 | 361938,60 | 8214329,54 | 912,50 |
| RAD-ALT21-C16-64 | 361929,02 | 8214324,94 | 912,50 |
| RAD-ALT21-C16-65 | 361919,70 | 8214322,34 | 912,50 |
| RAD-ALT21-C16-66 | 361908,53 | 8214316,78 | 912,51 |
| RAD-ALT21-C16-67 | 361898,89 | 8214311,50 | 912,50 |
| RAD-ALT21-C16-68 | 361892,34 | 8214303,58 | 912,51 |
| CURVA 17 | | | |
| RAD-ALT21-C17-01 | 362057,13 | 8214623,13 | 914,03 |
| RAD-ALT21-C17-02 | 362066,23 | 8214628,68 | 913,99 |
| RAD-ALT21-C17-03 | 362075,56 | 8214634,03 | 914,01 |
| RAD-ALT21-C17-04 | 362083,53 | 8214643,62 | 913,99 |
| RAD-ALT21-C17-05 | 362091,12 | 8214652,50 | 914,01 |
| RAD-ALT21-C17-06 | 362098,61 | 8214661,57 | 913,99 |
| RAD-ALT21-C17-07 | 362105,31 | 8214669,13 | 914,00 |
| RAD-ALT21-C17-08 | 362113,17 | 8214678,38 | 914,00 |
| RAD-ALT21-C17-09 | 362120,76 | 8214686,44 | 914,02 |
| RAD-ALT21-C17-10 | 362126,10 | 8214696,24 | 914,02 |
| RAD-ALT21-C17-11 | 362135,15 | 8214701,57 | 914,01 |
| RAD-ALT21-C17-12 | 362144,32 | 8214709,54 | 914,00 |
| RAD-ALT21-C17-13 | 362151,80 | 8214718,87 | 914,01 |
| RAD-ALT21-C17-14 | 362165,78 | 8214731,99 | 914,01 |
| RAD-ALT21-C17-15 | 362172,27 | 8214740,43 | 914,01 |
| RAD-ALT21-C17-16 | 362180,54 | 8214748,90 | 914,01 |
| RAD-ALT21-C17-17 | 362191,37 | 8214754,09 | 914,01 |
| RAD-ALT21-C17-18 | 362199,97 | 8214762,32 | 914,01 |
| RAD-ALT21-C17-19 | 362208,31 | 8214770,98 | 914,00 |
| RAD-ALT21-C17-20 | 362216,24 | 8214778,25 | 914,00 |
| RAD-ALT21-C17-21 | 362226,50 | 8214786,19 | 914,01 |
| RAD-ALT21-C17-22 | 362236,13 | 8214790,82 | 913,99 |
| RAD-ALT21-C17-23 | 362246,31 | 8214795,69 | 913,99 |
| RAD-ALT21-C17-24 | 362256,60 | 8214801,03 | 914,00 |
| RAD-ALT21-C17-25 | 362266,88 | 8214809,77 | 914,00 |
| RAD-ALT21-C17-26 | 362276,53 | 8214820,05 | 914,00 |
| RAD-ALT21-C17-27 | 361873,31 | 8214316,96 | 913,98 |
| RAD-ALT21-C17-28 | 361881,74 | 8214325,18 | 914,01 |
| RAD-ALT21-C17-29 | 361888,01 | 8214334,91 | 914,01 |
| RAD-ALT21-C17-30 | 361894,54 | 8214343,66 | 914,01 |
| RAD-ALT21-C17-31 | 361901,25 | 8214351,90 | 914,01 |
| RAD-ALT21-C17-32 | 361909,39 | 8214359,04 | 914,02 |
| RAD-ALT21-C17-33 | 361915,41 | 8214368,49 | 913,99 |
| RAD-ALT21-C17-34 | 361922,00 | 8214378,61 | 913,99 |
| RAD-ALT21-C17-35 | 361926,81 | 8214387,07 | 913,99 |
| RAD-ALT21-C17-36 | 361932,71 | 8214395,56 | 914,01 |
| RAD-ALT21-C17-37 | 361938,17 | 8214403,56 | 913,99 |
| RAD-ALT21-C17-38 | 361943,87 | 8214414,29 | 913,99 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C17-39 | 361949,34 | 8214423,16 | 914,01 |
| RAD-ALT21-C17-40 | 361955,34 | 8214434,12 | 914,01 |
| RAD-ALT21-C17-41 | 361959,80 | 8214444,08 | 914,01 |
| RAD-ALT21-C17-42 | 361964,92 | 8214453,18 | 913,99 |
| RAD-ALT21-C17-43 | 361968,24 | 8214462,95 | 913,99 |
| RAD-ALT21-C17-44 | 361972,73 | 8214472,89 | 914,01 |
| RAD-ALT21-C17-45 | 361977,25 | 8214481,95 | 914,01 |
| RAD-ALT21-C17-46 | 361982,86 | 8214491,24 | 914,00 |
| RAD-ALT21-C17-47 | 361986,86 | 8214500,30 | 913,99 |
| RAD-ALT21-C17-48 | 361992,35 | 8214509,77 | 914,02 |
| RAD-ALT21-C17-49 | 361997,80 | 8214518,41 | 914,00 |
| RAD-ALT21-C17-50 | 362002,85 | 8214528,81 | 914,01 |
| RAD-ALT21-C17-51 | 362007,39 | 8214537,98 | 914,00 |
| RAD-ALT21-C17-52 | 362011,80 | 8214546,91 | 913,99 |
| RAD-ALT21-C17-53 | 362016,23 | 8214555,78 | 914,00 |
| RAD-ALT21-C17-54 | 362020,52 | 8214564,68 | 914,00 |
| RAD-ALT21-C17-55 | 362026,34 | 8214574,14 | 914,02 |
| RAD-ALT21-C17-56 | 362031,30 | 8214584,40 | 914,01 |
| RAD-ALT21-C17-57 | 362037,65 | 8214592,45 | 914,01 |
| RAD-ALT21-C17-58 | 362044,60 | 8214599,85 | 913,99 |
| RAD-ALT21-C17-59 | 362051,83 | 8214608,61 | 913,99 |
| RAD-ALT21-C17-60 | 362054,22 | 8214616,11 | 914,03 |
| CURVA 18 | | | |
| RAD-ALT21-C18-01 | 362731,57 | 8214901,87 | 902,11 |
| RAD-ALT21-C18-02 | 362738,27 | 8214888,31 | 902,10 |
| RAD-ALT21-C18-03 | 362743,36 | 8214878,63 | 902,10 |
| RAD-ALT21-C18-04 | 362748,90 | 8214870,61 | 902,08 |
| RAD-ALT21-C18-05 | 362758,22 | 8214860,82 | 902,09 |
| RAD-ALT21-C18-06 | 362766,45 | 8214854,47 | 902,12 |
| RAD-ALT21-C18-07 | 362776,96 | 8214847,68 | 902,11 |
| RAD-ALT21-C18-08 | 362786,66 | 8214842,42 | 902,10 |
| RAD-ALT21-C18-09 | 362795,47 | 8214838,24 | 902,11 |
| RAD-ALT21-C18-10 | 362803,67 | 8214835,29 | 902,10 |
| RAD-ALT21-C18-11 | 362815,99 | 8214836,23 | 902,10 |
| RAD-ALT21-C18-12 | 362826,73 | 8214836,61 | 902,09 |
| RAD-ALT21-C18-13 | 362838,47 | 8214839,09 | 902,09 |
| RAD-ALT21-C18-14 | 362848,72 | 8214840,56 | 902,10 |
| RAD-ALT21-C18-15 | 362858,49 | 8214841,95 | 902,10 |
| RAD-ALT21-C18-16 | 362868,85 | 8214844,38 | 902,09 |
| RAD-ALT21-C18-17 | 362879,53 | 8214845,55 | 902,10 |
| RAD-ALT21-C18-18 | 362889,86 | 8214851,16 | 902,09 |
| RAD-ALT21-C18-19 | 362898,27 | 8214857,22 | 902,10 |
| RAD-ALT21-C18-20 | 362909,36 | 8214861,97 | 902,11 |
| RAD-ALT21-C18-21 | 362919,09 | 8214864,85 | 902,11 |
| RAD-ALT21-C18-22 | 362929,47 | 8214869,09 | 902,09 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C18-23 | 362939,45 | 8214873,92 | 902,10 |
| RAD-ALT21-C18-24 | 362948,18 | 8214880,53 | 902,10 |
| RAD-ALT21-C18-25 | 362959,81 | 8214883,84 | 902,10 |
| RAD-ALT21-C18-26 | 362967,64 | 8214890,45 | 902,10 |
| RAD-ALT21-C18-27 | 362975,79 | 8214897,29 | 902,10 |
| RAD-ALT21-C18-28 | 362984,50 | 8214904,10 | 902,10 |
| RAD-ALT21-C18-29 | 362992,62 | 8214913,43 | 902,10 |
| RAD-ALT21-C18-30 | 363000,14 | 8214922,27 | 902,10 |
| RAD-ALT21-C18-31 | 363004,66 | 8214930,48 | 902,09 |
| RAD-ALT21-C18-32 | 363002,95 | 8214941,08 | 902,10 |
| RAD-ALT21-C18-33 | 363004,02 | 8214951,90 | 902,10 |
| RAD-ALT21-C18-34 | 363003,47 | 8214961,09 | 902,11 |
| RAD-ALT21-C18-35 | 363003,83 | 8214971,98 | 902,11 |
| CURVA 19 | | | |
| RAD-ALT21-C19-01 | 362986,11 | 8214830,47 | 899,41 |
| RAD-ALT21-C19-02 | 362974,51 | 8214827,90 | 899,41 |
| RAD-ALT21-C19-03 | 362964,22 | 8214824,65 | 899,40 |
| RAD-ALT21-C19-04 | 362954,57 | 8214820,82 | 899,40 |
| RAD-ALT21-C19-05 | 362945,41 | 8214816,78 | 899,39 |
| RAD-ALT21-C19-06 | 362935,75 | 8214812,73 | 899,39 |
| RAD-ALT21-C19-07 | 362926,67 | 8214808,67 | 899,40 |
| RAD-ALT21-C19-08 | 362916,13 | 8214804,18 | 899,41 |
| RAD-ALT21-C19-09 | 362905,28 | 8214802,31 | 899,39 |
| RAD-ALT21-C19-10 | 362895,46 | 8214798,89 | 899,40 |
| RAD-ALT21-C19-11 | 362884,53 | 8214795,99 | 899,41 |
| RAD-ALT21-C19-12 | 362874,27 | 8214792,82 | 899,39 |
| RAD-ALT21-C19-13 | 362861,77 | 8214791,22 | 899,39 |
| RAD-ALT21-C19-14 | 362849,36 | 8214792,13 | 899,40 |
| RAD-ALT21-C19-15 | 362839,51 | 8214789,87 | 899,39 |
| RAD-ALT21-C19-16 | 362829,40 | 8214788,92 | 899,40 |
| RAD-ALT21-C19-17 | 362818,48 | 8214790,70 | 899,39 |
| RAD-ALT21-C19-18 | 362809,35 | 8214791,34 | 899,40 |
| RAD-ALT21-C19-19 | 362798,41 | 8214792,94 | 899,41 |
| RAD-ALT21-C19-20 | 362788,64 | 8214796,35 | 899,41 |
| RAD-ALT21-C19-21 | 362777,19 | 8214802,10 | 899,39 |
| RAD-ALT21-C19-22 | 362767,76 | 8214807,10 | 899,39 |
| RAD-ALT21-C19-23 | 362760,11 | 8214813,15 | 899,40 |
| RAD-ALT21-C19-24 | 362751,70 | 8214819,54 | 899,41 |
| RAD-ALT21-C19-25 | 362743,47 | 8214826,59 | 899,40 |
| RAD-ALT21-C19-26 | 362738,49 | 8214836,50 | 899,40 |
| RAD-ALT21-C19-27 | 362734,60 | 8214845,21 | 899,42 |
| RAD-ALT21-C19-28 | 362725,03 | 8214851,79 | 899,39 |
| RAD-ALT21-C19-29 | 362996,39 | 8214835,63 | 899,40 |
| RAD-ALT21-C19-30 | 363005,69 | 8214841,43 | 899,41 |
| RAD-ALT21-C19-31 | 363015,71 | 8214847,36 | 899,40 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C19-32 | 363025,05 | 8214853,92 | 899,40 |
| RAD-ALT21-C19-33 | 363034,77 | 8214859,34 | 899,41 |
| RAD-ALT21-C19-34 | 363043,93 | 8214864,78 | 899,40 |
| RAD-ALT21-C19-35 | 363052,70 | 8214870,78 | 899,42 |
| RAD-ALT21-C19-36 | 363059,22 | 8214878,16 | 899,40 |
| RAD-ALT21-C19-37 | 363067,43 | 8214884,74 | 899,41 |
| RAD-ALT21-C19-38 | 363075,58 | 8214892,51 | 899,40 |
| RAD-ALT21-C19-39 | 363082,76 | 8214901,30 | 899,40 |
| RAD-ALT21-C19-40 | 363085,67 | 8214912,18 | 899,39 |
| RAD-ALT21-C19-41 | 363086,29 | 8214922,77 | 899,41 |
| RAD-ALT21-C19-42 | 363084,24 | 8214933,07 | 899,39 |
| RAD-ALT21-C19-43 | 363082,22 | 8214943,90 | 899,41 |
| RAD-ALT21-C19-44 | 363078,19 | 8214952,82 | 899,40 |
| RAD-ALT21-C19-45 | 363071,93 | 8214964,36 | 899,41 |
| RAD-ALT21-C19-46 | 363068,33 | 8214973,91 | 899,40 |
| RAD-ALT21-C19-47 | 363061,97 | 8214985,12 | 899,40 |
| CURVA 20 | | | |
| RAD-ALT21-C20-01 | 362723,44 | 8214816,27 | 897,39 |
| RAD-ALT21-C20-02 | 362730,78 | 8214809,35 | 897,39 |
| RAD-ALT21-C20-03 | 362738,10 | 8214801,84 | 897,39 |
| RAD-ALT21-C20-04 | 362745,44 | 8214794,14 | 897,40 |
| RAD-ALT21-C20-05 | 362751,73 | 8214786,64 | 897,40 |
| RAD-ALT21-C20-06 | 362759,75 | 8214780,38 | 897,39 |
| RAD-ALT21-C20-07 | 362768,44 | 8214775,20 | 897,40 |
| RAD-ALT21-C20-08 | 362777,54 | 8214770,28 | 897,40 |
| RAD-ALT21-C20-09 | 362788,49 | 8214767,03 | 897,39 |
| RAD-ALT21-C20-10 | 362799,31 | 8214761,82 | 897,38 |
| RAD-ALT21-C20-11 | 362809,55 | 8214760,91 | 897,41 |
| RAD-ALT21-C20-12 | 362819,97 | 8214759,66 | 897,41 |
| RAD-ALT21-C20-13 | 362830,24 | 8214757,33 | 897,40 |
| RAD-ALT21-C20-14 | 362840,97 | 8214758,16 | 897,40 |
| RAD-ALT21-C20-15 | 362853,38 | 8214759,19 | 897,40 |
| RAD-ALT21-C20-16 | 362863,58 | 8214761,18 | 897,39 |
| RAD-ALT21-C20-17 | 362874,48 | 8214760,50 | 897,40 |
| RAD-ALT21-C20-18 | 362883,72 | 8214763,29 | 897,41 |
| RAD-ALT21-C20-19 | 362894,19 | 8214765,17 | 897,40 |
| RAD-ALT21-C20-20 | 362905,78 | 8214767,47 | 897,41 |
| RAD-ALT21-C20-21 | 362917,69 | 8214769,67 | 897,39 |
| RAD-ALT21-C20-22 | 362927,93 | 8214771,87 | 897,39 |
| RAD-ALT21-C20-23 | 362937,12 | 8214774,52 | 897,40 |
| RAD-ALT21-C20-24 | 362948,46 | 8214778,01 | 897,40 |
| RAD-ALT21-C20-25 | 362959,42 | 8214779,78 | 897,41 |
| RAD-ALT21-C20-26 | 362968,69 | 8214783,75 | 897,39 |
| RAD-ALT21-C20-27 | 362978,19 | 8214787,48 | 897,39 |
| RAD-ALT21-C20-28 | 362987,37 | 8214792,03 | 897,40 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C20-29 | 362998,71 | 8214794,57 | 897,40 |
| RAD-ALT21-C20-30 | 363008,25 | 8214798,87 | 897,39 |
| RAD-ALT21-C20-31 | 363017,97 | 8214804,85 | 897,40 |
| RAD-ALT21-C20-32 | 363029,46 | 8214808,27 | 897,40 |
| RAD-ALT21-C20-33 | 363039,22 | 8214812,14 | 897,41 |
| RAD-ALT21-C20-34 | 363049,60 | 8214815,98 | 897,41 |
| RAD-ALT21-C20-35 | 363059,37 | 8214821,14 | 897,41 |
| RAD-ALT21-C20-36 | 363063,82 | 8214826,46 | 897,41 |
| RAD-ALT21-C20-37 | 363074,29 | 8214830,88 | 897,41 |
| RAD-ALT21-C20-38 | 363083,64 | 8214834,50 | 897,41 |
| RAD-ALT21-C20-39 | 363092,64 | 8214839,68 | 897,40 |
| RAD-ALT21-C20-40 | 363101,77 | 8214846,45 | 897,39 |
| RAD-ALT21-C20-41 | 363109,98 | 8214853,11 | 897,40 |
| RAD-ALT21-C20-42 | 363116,17 | 8214864,12 | 897,41 |
| RAD-ALT21-C20-43 | 363121,72 | 8214873,84 | 897,40 |
| RAD-ALT21-C20-44 | 363127,73 | 8214882,25 | 897,39 |
| RAD-ALT21-C20-45 | 363132,07 | 8214892,70 | 897,40 |
| RAD-ALT21-C20-46 | 363135,55 | 8214902,86 | 897,40 |
| RAD-ALT21-C20-47 | 363138,24 | 8214913,37 | 897,41 |
| RAD-ALT21-C20-48 | 363098,50 | 8214992,73 | 897,40 |
| RAD-ALT21-C20-49 | 363103,58 | 8214984,78 | 897,39 |
| RAD-ALT21-C20-50 | 363109,07 | 8214975,11 | 897,39 |
| RAD-ALT21-C20-51 | 363114,65 | 8214966,77 | 897,39 |
| RAD-ALT21-C20-52 | 363120,72 | 8214956,80 | 897,39 |
| RAD-ALT21-C20-53 | 363125,22 | 8214946,42 | 897,39 |
| RAD-ALT21-C20-54 | 363128,36 | 8214937,24 | 897,41 |
| RAD-ALT21-C20-55 | 363131,23 | 8214927,31 | 897,42 |
| RAD-ALT21-C20-56 | 363134,46 | 8214918,15 | 897,40 |
| CURVA 21 | | | |
| RAD-ALT21-C21-01 | 362960,77 | 8214745,43 | 895,41 |
| RAD-ALT21-C21-02 | 362950,14 | 8214743,35 | 895,39 |
| RAD-ALT21-C21-03 | 362940,88 | 8214740,90 | 895,41 |
| RAD-ALT21-C21-04 | 362930,26 | 8214737,81 | 895,39 |
| RAD-ALT21-C21-05 | 362919,15 | 8214735,23 | 895,40 |
| RAD-ALT21-C21-06 | 362909,85 | 8214732,95 | 895,40 |
| RAD-ALT21-C21-07 | 362898,70 | 8214732,08 | 895,39 |
| RAD-ALT21-C21-08 | 362888,66 | 8214731,21 | 895,41 |
| RAD-ALT21-C21-09 | 362877,44 | 8214729,11 | 895,40 |
| RAD-ALT21-C21-10 | 362867,67 | 8214728,71 | 895,40 |
| RAD-ALT21-C21-11 | 362856,24 | 8214729,17 | 895,41 |
| RAD-ALT21-C21-12 | 362845,74 | 8214729,07 | 895,40 |
| RAD-ALT21-C21-13 | 362834,58 | 8214729,96 | 895,40 |
| RAD-ALT21-C21-14 | 362823,71 | 8214730,68 | 895,41 |
| RAD-ALT21-C21-15 | 362813,07 | 8214731,80 | 895,39 |
| RAD-ALT21-C21-16 | 362801,85 | 8214734,63 | 895,39 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C21-17 | 362793,03 | 8214738,68 | 895,39 |
| RAD-ALT21-C21-18 | 362783,73 | 8214742,06 | 895,40 |
| RAD-ALT21-C21-19 | 362774,28 | 8214745,77 | 895,40 |
| RAD-ALT21-C21-20 | 362764,91 | 8214747,79 | 895,40 |
| RAD-ALT21-C21-21 | 362752,07 | 8214754,42 | 895,40 |
| RAD-ALT21-C21-22 | 362743,50 | 8214760,92 | 895,40 |
| RAD-ALT21-C21-23 | 362735,42 | 8214768,52 | 895,40 |
| RAD-ALT21-C21-24 | 362727,62 | 8214777,57 | 895,40 |
| RAD-ALT21-C21-25 | 362719,38 | 8214785,79 | 895,40 |
| RAD-ALT21-C21-26 | 362970,59 | 8214746,60 | 895,41 |
| RAD-ALT21-C21-27 | 362978,74 | 8214748,66 | 895,39 |
| RAD-ALT21-C21-28 | 362988,40 | 8214753,53 | 895,41 |
| RAD-ALT21-C21-29 | 362998,83 | 8214757,31 | 895,41 |
| RAD-ALT21-C21-30 | 363010,11 | 8214762,36 | 895,41 |
| RAD-ALT21-C21-31 | 363020,98 | 8214764,14 | 895,40 |
| RAD-ALT21-C21-32 | 363029,75 | 8214766,79 | 895,40 |
| RAD-ALT21-C21-33 | 363038,72 | 8214770,47 | 895,41 |
| RAD-ALT21-C21-34 | 363047,51 | 8214773,74 | 895,39 |
| RAD-ALT21-C21-35 | 363058,51 | 8214778,91 | 895,40 |
| RAD-ALT21-C21-36 | 363069,58 | 8214784,33 | 895,41 |
| RAD-ALT21-C21-37 | 363078,92 | 8214788,63 | 895,41 |
| RAD-ALT21-C21-38 | 363087,49 | 8214792,09 | 895,41 |
| RAD-ALT21-C21-39 | 363097,35 | 8214796,79 | 895,40 |
| RAD-ALT21-C21-40 | 363105,95 | 8214801,56 | 895,40 |
| RAD-ALT21-C21-41 | 363116,00 | 8214808,15 | 895,41 |
| RAD-ALT21-C21-42 | 363126,27 | 8214813,79 | 895,40 |
| RAD-ALT21-C21-43 | 363133,69 | 8214821,40 | 895,39 |
| RAD-ALT21-C21-44 | 363141,07 | 8214829,15 | 895,40 |
| RAD-ALT21-C21-45 | 363151,36 | 8214839,89 | 895,40 |
| RAD-ALT21-C21-46 | 363159,30 | 8214846,54 | 895,39 |
| RAD-ALT21-C21-47 | 363164,56 | 8214857,00 | 895,41 |
| RAD-ALT21-C21-48 | 363171,21 | 8214866,55 | 895,39 |
| RAD-ALT21-C21-49 | 363174,87 | 8214878,02 | 895,41 |
| RAD-ALT21-C21-50 | 363178,42 | 8214887,64 | 895,41 |
| RAD-ALT21-C21-51 | 363181,23 | 8214898,45 | 895,40 |
| RAD-ALT21-C21-52 | 363182,74 | 8214909,75 | 895,41 |
| RAD-ALT21-C21-53 | 363183,11 | 8214920,57 | 895,41 |
| RAD-ALT21-C21-54 | 363126,27 | 8214813,79 | 895,40 |
| RAD-ALT21-C21-55 | 363133,69 | 8214821,40 | 895,39 |
| RAD-ALT21-C21-56 | 363141,07 | 8214829,15 | 895,40 |
| RAD-ALT21-C21-57 | 363151,36 | 8214839,89 | 895,40 |
| RAD-ALT21-C21-58 | 363159,30 | 8214846,54 | 895,39 |
| RAD-ALT21-C21-59 | 363164,56 | 8214857,00 | 895,41 |
| RAD-ALT21-C21-60 | 363171,21 | 8214866,55 | 895,39 |
| RAD-ALT21-C21-61 | 363174,87 | 8214878,02 | 895,41 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C21-62 | 363178,42 | 8214887,64 | 895,41 |
| RAD-ALT21-C21-63 | 363181,23 | 8214898,45 | 895,40 |
| RAD-ALT21-C21-64 | 363182,74 | 8214909,75 | 895,41 |
| RAD-ALT21-C21-65 | 363183,11 | 8214920,57 | 895,41 |
| RAD-ALT21-C21-66 | 363179,46 | 8214930,33 | 895,40 |
| RAD-ALT21-C21-67 | 363173,16 | 8214938,94 | 895,39 |
| RAD-ALT21-C21-68 | 363164,39 | 8214945,23 | 895,41 |
| RAD-ALT21-C21-69 | 363158,31 | 8214958,18 | 895,40 |
| RAD-ALT21-C21-70 | 363150,52 | 8214969,41 | 895,39 |
| RAD-ALT21-C21-71 | 363144,07 | 8214978,79 | 895,41 |
| RAD-ALT21-C21-72 | 363137,36 | 8214988,38 | 895,39 |
| RAD-ALT21-C21-73 | 363130,22 | 8214998,43 | 895,40 |
| CURVA 22 | | | |
| RAD-ALT21-C22-01 | 362722,23 | 8214748,49 | 893,41 |
| RAD-ALT21-C22-02 | 362730,83 | 8214742,44 | 893,39 |
| RAD-ALT21-C22-03 | 362738,79 | 8214737,01 | 893,39 |
| RAD-ALT21-C22-04 | 362747,15 | 8214731,45 | 893,40 |
| RAD-ALT21-C22-05 | 362756,22 | 8214725,91 | 893,40 |
| RAD-ALT21-C22-06 | 362765,40 | 8214722,13 | 893,39 |
| RAD-ALT21-C22-07 | 362774,63 | 8214719,08 | 893,42 |
| RAD-ALT21-C22-08 | 362783,50 | 8214715,61 | 893,40 |
| RAD-ALT21-C22-09 | 362793,22 | 8214712,07 | 893,41 |
| RAD-ALT21-C22-10 | 362803,67 | 8214709,21 | 893,39 |
| RAD-ALT21-C22-11 | 362814,25 | 8214706,05 | 893,39 |
| RAD-ALT21-C22-12 | 362824,45 | 8214704,62 | 893,39 |
| RAD-ALT21-C22-13 | 362834,95 | 8214703,73 | 893,40 |
| RAD-ALT21-C22-14 | 362846,68 | 8214702,02 | 893,41 |
| RAD-ALT21-C22-15 | 362856,50 | 8214701,96 | 893,41 |
| RAD-ALT21-C22-16 | 362866,87 | 8214701,64 | 893,41 |
| RAD-ALT21-C22-17 | 362878,33 | 8214700,22 | 893,39 |
| RAD-ALT21-C22-18 | 362888,87 | 8214700,12 | 893,39 |
| RAD-ALT21-C22-19 | 362898,79 | 8214700,17 | 893,40 |
| RAD-ALT21-C22-20 | 362910,66 | 8214702,50 | 893,39 |
| RAD-ALT21-C22-21 | 362919,28 | 8214702,38 | 893,39 |
| RAD-ALT21-C22-22 | 362928,25 | 8214704,76 | 893,39 |
| RAD-ALT21-C22-23 | 362938,68 | 8214706,05 | 893,40 |
| RAD-ALT21-C22-24 | 362948,59 | 8214710,08 | 893,42 |
| RAD-ALT21-C22-25 | 362959,43 | 8214711,16 | 893,41 |
| RAD-ALT21-C22-26 | 362969,50 | 8214713,35 | 893,40 |
| RAD-ALT21-C22-27 | 363123,63 | 8214774,55 | 893,41 |
| RAD-ALT21-C22-28 | 363112,99 | 8214767,33 | 893,40 |
| RAD-ALT21-C22-29 | 363101,83 | 8214761,12 | 893,41 |
| RAD-ALT21-C22-30 | 363089,83 | 8214755,14 | 893,41 |
| RAD-ALT21-C22-31 | 363079,61 | 8214751,98 | 893,41 |
| RAD-ALT21-C22-32 | 363069,46 | 8214748,28 | 893,41 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C22-33 | 363058,64 | 8214741,80 | 893,41 |
| RAD-ALT21-C22-34 | 363048,93 | 8214736,78 | 893,42 |
| RAD-ALT21-C22-35 | 363039,21 | 8214734,86 | 893,40 |
| RAD-ALT21-C22-36 | 363029,26 | 8214732,54 | 893,40 |
| RAD-ALT21-C22-37 | 363019,82 | 8214728,83 | 893,41 |
| RAD-ALT21-C22-38 | 363009,99 | 8214725,67 | 893,41 |
| RAD-ALT21-C22-39 | 362999,55 | 8214723,46 | 893,40 |
| RAD-ALT21-C22-40 | 362990,94 | 8214719,85 | 893,41 |
| RAD-ALT21-C22-41 | 362979,84 | 8214715,97 | 893,40 |
| RAD-ALT21-C22-42 | 363133,89 | 8214780,99 | 893,41 |
| RAD-ALT21-C22-43 | 363143,03 | 8214786,63 | 893,40 |
| RAD-ALT21-C22-44 | 363151,78 | 8214792,13 | 893,39 |
| RAD-ALT21-C22-45 | 363160,28 | 8214799,77 | 893,39 |
| RAD-ALT21-C22-46 | 363168,09 | 8214807,69 | 893,40 |
| RAD-ALT21-C22-47 | 363174,93 | 8214816,01 | 893,39 |
| RAD-ALT21-C22-48 | 363181,54 | 8214823,72 | 893,41 |
| RAD-ALT21-C22-49 | 363188,33 | 8214830,93 | 893,41 |
| RAD-ALT21-C22-50 | 363195,22 | 8214836,97 | 893,41 |
| RAD-ALT21-C22-51 | 363201,93 | 8214844,68 | 893,40 |
| RAD-ALT21-C22-52 | 363207,83 | 8214854,31 | 893,40 |
| RAD-ALT21-C22-53 | 363213,76 | 8214862,96 | 893,40 |
| RAD-ALT21-C22-54 | 363219,33 | 8214871,81 | 893,39 |
| RAD-ALT21-C22-55 | 363223,83 | 8214882,72 | 893,39 |
| RAD-ALT21-C22-56 | 363224,86 | 8214893,48 | 893,40 |
| RAD-ALT21-C22-57 | 363227,29 | 8214904,39 | 893,40 |
| RAD-ALT21-C22-58 | 363228,32 | 8214915,66 | 893,40 |
| RAD-ALT21-C22-59 | 363226,97 | 8214928,01 | 893,40 |
| RAD-ALT21-C22-60 | 363219,44 | 8214938,84 | 893,39 |
| RAD-ALT21-C22-61 | 363213,36 | 8214946,02 | 893,40 |
| RAD-ALT21-C22-62 | 363205,02 | 8214952,94 | 893,41 |
| RAD-ALT21-C22-63 | 363195,95 | 8214958,31 | 893,40 |
| RAD-ALT21-C22-64 | 363191,40 | 8214970,17 | 893,40 |
| RAD-ALT21-C22-65 | 363183,73 | 8214976,76 | 893,40 |
| RAD-ALT21-C22-66 | 363176,32 | 8214983,54 | 893,41 |
| RAD-ALT21-C22-67 | 363170,25 | 8214991,41 | 893,40 |
| RAD-ALT21-C22-68 | 363163,52 | 8214999,62 | 893,39 |
| RAD-ALT21-C22-69 | 363159,35 | 8215005,15 | 893,40 |
| CURVA 23 | | | |
| RAD-ALT21-C23-01 | 362750,85 | 8214917,72 | 904,20 |
| RAD-ALT21-C23-02 | 362757,86 | 8214906,43 | 904,18 |
| RAD-ALT21-C23-03 | 362765,01 | 8214898,45 | 904,19 |
| RAD-ALT21-C23-04 | 362774,59 | 8214890,36 | 904,20 |
| RAD-ALT21-C23-05 | 362784,54 | 8214885,07 | 904,20 |
| RAD-ALT21-C23-06 | 362793,35 | 8214881,26 | 904,20 |
| RAD-ALT21-C23-07 | 362804,19 | 8214879,86 | 904,20 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C23-08 | 362816,52 | 8214877,65 | 904,21 |
| RAD-ALT21-C23-09 | 362829,67 | 8214878,67 | 904,21 |
| RAD-ALT21-C23-10 | 362845,29 | 8214884,67 | 904,18 |
| RAD-ALT21-C23-11 | 362855,91 | 8214890,35 | 904,20 |
| RAD-ALT21-C23-12 | 362865,40 | 8214895,63 | 904,19 |
| RAD-ALT21-C23-13 | 362875,71 | 8214899,71 | 904,19 |
| RAD-ALT21-C23-14 | 362885,79 | 8214904,18 | 904,21 |
| RAD-ALT21-C23-15 | 362895,40 | 8214909,22 | 904,20 |
| RAD-ALT21-C23-16 | 362903,48 | 8214915,06 | 904,21 |
| RAD-ALT21-C23-17 | 362911,37 | 8214919,93 | 904,20 |
| RAD-ALT21-C23-18 | 362919,29 | 8214925,24 | 904,20 |
| RAD-ALT21-C23-19 | 362926,80 | 8214934,21 | 904,20 |
| RAD-ALT21-C23-20 | 362931,98 | 8214944,72 | 904,21 |
| RAD-ALT21-C23-21 | 362944,60 | 8214958,96 | 904,20 |
| CURVA 24 | | | |
| RAD-ALT21-C24-01 | 362910,12 | 8214677,19 | 891,41 |
| RAD-ALT21-C24-02 | 362898,25 | 8214676,36 | 891,41 |
| RAD-ALT21-C24-03 | 362887,77 | 8214676,56 | 891,39 |
| RAD-ALT21-C24-04 | 362877,23 | 8214677,84 | 891,40 |
| RAD-ALT21-C24-05 | 362866,05 | 8214678,52 | 891,39 |
| RAD-ALT21-C24-06 | 362854,81 | 8214680,11 | 891,40 |
| RAD-ALT21-C24-07 | 362843,35 | 8214679,87 | 891,39 |
| RAD-ALT21-C24-08 | 362833,20 | 8214682,67 | 891,41 |
| RAD-ALT21-C24-09 | 362823,76 | 8214684,29 | 891,41 |
| RAD-ALT21-C24-10 | 362813,64 | 8214684,67 | 891,40 |
| RAD-ALT21-C24-11 | 362804,07 | 8214686,82 | 891,41 |
| RAD-ALT21-C24-12 | 362794,04 | 8214688,10 | 891,39 |
| RAD-ALT21-C24-13 | 362782,98 | 8214691,59 | 891,40 |
| RAD-ALT21-C24-14 | 362772,49 | 8214693,45 | 891,40 |
| RAD-ALT21-C24-15 | 362762,38 | 8214697,60 | 891,39 |
| RAD-ALT21-C24-16 | 362752,43 | 8214701,87 | 891,39 |
| RAD-ALT21-C24-17 | 362742,26 | 8214709,21 | 891,39 |
| RAD-ALT21-C24-18 | 362733,02 | 8214716,12 | 891,41 |
| RAD-ALT21-C24-19 | 362721,94 | 8214720,69 | 891,39 |
| RAD-ALT21-C24-20 | 362921,62 | 8214676,99 | 891,39 |
| RAD-ALT21-C24-21 | 362932,46 | 8214678,47 | 891,39 |
| RAD-ALT21-C24-22 | 362944,02 | 8214679,88 | 891,41 |
| RAD-ALT21-C24-23 | 362954,32 | 8214680,79 | 891,41 |
| RAD-ALT21-C24-24 | 362965,12 | 8214682,12 | 891,39 |
| RAD-ALT21-C24-25 | 362975,44 | 8214684,33 | 891,40 |
| RAD-ALT21-C24-26 | 362985,13 | 8214687,98 | 891,40 |
| RAD-ALT21-C24-27 | 362995,04 | 8214690,93 | 891,39 |
| RAD-ALT21-C24-28 | 363003,99 | 8214694,73 | 891,41 |
| RAD-ALT21-C24-29 | 363013,88 | 8214696,24 | 891,39 |
| RAD-ALT21-C24-30 | 363023,96 | 8214699,24 | 891,39 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C24-31 | 363033,43 | 8214702,86 | 891,40 |
| RAD-ALT21-C24-32 | 363041,71 | 8214705,62 | 891,41 |
| RAD-ALT21-C24-33 | 363050,49 | 8214708,60 | 891,39 |
| RAD-ALT21-C24-34 | 363058,01 | 8214711,91 | 891,40 |
| RAD-ALT21-C24-35 | 363065,58 | 8214715,88 | 891,41 |
| RAD-ALT21-C24-36 | 363074,58 | 8214719,68 | 891,41 |
| RAD-ALT21-C24-37 | 363084,52 | 8214720,53 | 891,41 |
| RAD-ALT21-C24-38 | 363094,68 | 8214720,90 | 891,40 |
| RAD-ALT21-C24-39 | 363105,27 | 8214723,76 | 891,40 |
| RAD-ALT21-C24-40 | 363112,57 | 8214729,47 | 891,41 |
| RAD-ALT21-C24-41 | 363122,05 | 8214732,38 | 891,40 |
| RAD-ALT21-C24-42 | 363131,63 | 8214736,19 | 891,40 |
| RAD-ALT21-C24-43 | 363140,48 | 8214742,31 | 891,40 |
| RAD-ALT21-C24-44 | 363148,66 | 8214749,90 | 891,40 |
| RAD-ALT21-C24-45 | 363156,24 | 8214756,47 | 891,40 |
| RAD-ALT21-C24-46 | 363164,44 | 8214763,70 | 891,40 |
| RAD-ALT21-C24-47 | 363173,19 | 8214770,61 | 891,39 |
| RAD-ALT21-C24-48 | 363179,92 | 8214778,40 | 891,40 |
| RAD-ALT21-C24-49 | 363186,65 | 8214787,37 | 891,39 |
| RAD-ALT21-C24-50 | 363192,94 | 8214793,99 | 891,40 |
| RAD-ALT21-C24-51 | 363200,78 | 8214801,91 | 891,41 |
| RAD-ALT21-C24-52 | 363207,96 | 8214808,25 | 891,40 |
| RAD-ALT21-C24-53 | 363213,82 | 8214815,64 | 891,39 |
| RAD-ALT21-C24-54 | 363219,53 | 8214823,18 | 891,40 |
| RAD-ALT21-C24-55 | 363226,23 | 8214831,45 | 891,41 |
| RAD-ALT21-C24-56 | 363234,62 | 8214839,80 | 891,40 |
| RAD-ALT21-C24-57 | 363242,26 | 8214847,19 | 891,39 |
| RAD-ALT21-C24-58 | 363248,46 | 8214855,28 | 891,41 |
| RAD-ALT21-C24-59 | 363254,74 | 8214862,76 | 891,40 |
| RAD-ALT21-C24-60 | 363260,96 | 8214870,34 | 891,39 |
| RAD-ALT21-C24-61 | 363264,64 | 8214879,98 | 891,40 |
| RAD-ALT21-C24-62 | 363268,56 | 8214889,29 | 891,40 |
| RAD-ALT21-C24-63 | 363270,92 | 8214899,58 | 891,39 |
| RAD-ALT21-C24-64 | 363272,74 | 8214911,39 | 891,39 |
| RAD-ALT21-C24-65 | 363277,03 | 8214922,29 | 891,39 |
| RAD-ALT21-C24-66 | 363274,81 | 8214932,45 | 891,40 |
| RAD-ALT21-C24-67 | 363268,50 | 8214943,29 | 891,41 |
| RAD-ALT21-C24-68 | 363259,54 | 8214951,79 | 891,41 |
| RAD-ALT21-C24-69 | 363252,89 | 8214958,29 | 891,39 |
| RAD-ALT21-C24-70 | 363245,00 | 8214964,22 | 891,41 |
| RAD-ALT21-C24-71 | 363236,29 | 8214968,45 | 891,41 |
| RAD-ALT21-C24-72 | 363228,29 | 8214976,11 | 891,40 |
| RAD-ALT21-C24-73 | 363219,03 | 8214983,23 | 891,39 |
| RAD-ALT21-C24-74 | 363211,58 | 8214987,91 | 891,40 |
| RAD-ALT21-C24-75 | 363203,20 | 8214994,69 | 891,40 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT21-C24-76 | 363195,06 | 8215000,97 | 891,41 |
| RAD-ALT21-C24-77 | 363187,04 | 8215009,05 | 891,39 |
| CURVA 25 | | | |
| RAD-ALT21-C25-01 | 362725,11 | 8214683,41 | 888,06 |
| RAD-ALT21-C25-02 | 362734,18 | 8214674,47 | 887,99 |
| RAD-ALT21-C25-03 | 362743,24 | 8214669,75 | 887,99 |
| RAD-ALT21-C25-04 | 362752,89 | 8214664,67 | 887,99 |
| RAD-ALT21-C25-05 | 362763,39 | 8214662,57 | 888,02 |
| RAD-ALT21-C25-06 | 362773,86 | 8214659,27 | 888,02 |
| RAD-ALT21-C25-07 | 362784,38 | 8214657,08 | 888,01 |
| RAD-ALT21-C25-08 | 362794,32 | 8214655,39 | 888,00 |
| RAD-ALT21-C25-09 | 362805,21 | 8214653,92 | 888,01 |
| RAD-ALT21-C25-10 | 362816,12 | 8214653,78 | 888,00 |
| RAD-ALT21-C25-11 | 362827,07 | 8214651,15 | 888,02 |
| RAD-ALT21-C25-12 | 362836,52 | 8214650,10 | 888,03 |
| RAD-ALT21-C25-13 | 362848,60 | 8214648,19 | 888,01 |
| RAD-ALT21-C25-14 | 362858,72 | 8214645,85 | 888,01 |
| RAD-ALT21-C25-15 | 362869,13 | 8214642,64 | 887,99 |
| RAD-ALT21-C25-16 | 362878,93 | 8214641,06 | 888,01 |
| RAD-ALT21-C25-17 | 362886,62 | 8214637,21 | 888,00 |
| RAD-ALT21-C25-18 | 362897,21 | 8214635,63 | 887,98 |
| RAD-ALT21-C25-19 | 362905,96 | 8214634,73 | 887,98 |
| RAD-ALT21-C25-20 | 362917,49 | 8214633,75 | 888,00 |
| RAD-ALT21-C25-21 | 362928,43 | 8214632,94 | 887,98 |
| RAD-ALT21-C25-22 | 362938,27 | 8214631,58 | 887,99 |
| RAD-ALT21-C25-23 | 362949,59 | 8214634,13 | 888,02 |
| RAD-ALT21-C25-24 | 362957,73 | 8214633,55 | 888,01 |
| RAD-ALT21-C25-25 | 362966,50 | 8214636,50 | 888,01 |
| RAD-ALT21-C25-26 | 362976,27 | 8214638,95 | 888,02 |
| RAD-ALT21-C25-27 | 362985,36 | 8214642,13 | 887,98 |
| RAD-ALT21-C25-28 | 362994,93 | 8214645,81 | 887,99 |
| RAD-ALT21-C25-29 | 363003,80 | 8214650,02 | 888,02 |
| RAD-ALT21-C25-30 | 363010,95 | 8214653,12 | 888,02 |
| RAD-ALT21-C25-31 | 363022,34 | 8214654,49 | 887,99 |
| RAD-ALT21-C25-32 | 363032,38 | 8214657,96 | 888,00 |
| RAD-ALT21-C25-33 | 363040,40 | 8214662,03 | 888,02 |
| RAD-ALT21-C25-34 | 363048,23 | 8214663,56 | 888,02 |
| RAD-ALT21-C25-35 | 363059,11 | 8214665,70 | 887,99 |
| RAD-ALT21-C25-36 | 363068,58 | 8214668,78 | 887,99 |
| RAD-ALT21-C25-37 | 363080,14 | 8214671,22 | 887,99 |
| RAD-ALT21-C25-38 | 363090,06 | 8214671,75 | 887,99 |
| RAD-ALT21-C25-39 | 363101,08 | 8214672,77 | 888,01 |

Locação de Terraços - RAD-ALT-22

| NOME | ESTE | NORTE | ALTITUDE |
|------|------|-------|----------|
|------|------|-------|----------|

| CURVA 01 | | | |
|------------------|-----------|------------|--------|
| RAD-ALT22-C01-01 | 365755,97 | 8217242,56 | 592,02 |
| RAD-ALT22-C01-02 | 365763,89 | 8217247,28 | 592,03 |
| RAD-ALT22-C01-03 | 365747,30 | 8217240,15 | 592,03 |
| RAD-ALT22-C01-04 | 365738,48 | 8217235,55 | 591,98 |
| RAD-ALT22-C01-05 | 365729,09 | 8217234,76 | 592,04 |
| RAD-ALT22-C01-06 | 365720,36 | 8217231,97 | 591,99 |
| RAD-ALT22-C01-07 | 365772,11 | 8217254,93 | 592,04 |
| RAD-ALT22-C01-08 | 365777,34 | 8217263,86 | 592,04 |
| RAD-ALT22-C01-09 | 365780,89 | 8217274,54 | 591,98 |
| RAD-ALT22-C01-10 | 365780,94 | 8217285,99 | 591,96 |
| RAD-ALT22-C01-11 | 365776,58 | 8217296,22 | 591,98 |
| RAD-ALT22-C01-12 | 365771,05 | 8217303,58 | 591,98 |
| RAD-ALT22-C01-13 | 365764,20 | 8217313,23 | 591,97 |
| RAD-ALT22-C01-14 | 365756,62 | 8217319,90 | 592,04 |
| RAD-ALT22-C01-15 | 365751,36 | 8217328,72 | 591,97 |
| CURVA 02 | | | |
| RAD-ALT22-C02-01 | 365711,99 | 8217324,99 | 593,48 |
| RAD-ALT22-C02-02 | 365724,21 | 8217319,06 | 593,49 |
| RAD-ALT22-C02-03 | 365727,28 | 8217308,74 | 593,52 |
| RAD-ALT22-C02-04 | 365734,31 | 8217297,91 | 593,50 |
| RAD-ALT22-C02-05 | 365740,91 | 8217287,19 | 593,54 |
| RAD-ALT22-C02-06 | 365740,47 | 8217277,96 | 593,52 |
| RAD-ALT22-C02-07 | 365739,08 | 8217267,15 | 593,52 |
| RAD-ALT22-C02-08 | 365733,68 | 8217258,56 | 593,51 |
| RAD-ALT22-C02-09 | 365726,14 | 8217251,39 | 593,52 |
| RAD-ALT22-C02-10 | 365716,26 | 8217242,93 | 593,47 |
| RAD-ALT22-C02-11 | 365706,75 | 8217240,58 | 593,50 |
| CURVA 03 | | | |
| RAD-ALT22-C03-01 | 365676,91 | 8217259,35 | 595,98 |
| RAD-ALT22-C03-02 | 365685,08 | 8217270,91 | 595,98 |
| RAD-ALT22-C03-03 | 365685,29 | 8217282,61 | 595,98 |
| RAD-ALT22-C03-04 | 365679,00 | 8217292,67 | 596,01 |
| RAD-ALT22-C03-05 | 365672,94 | 8217303,06 | 595,98 |
| RAD-ALT22-C03-06 | 365665,66 | 8217310,36 | 596,02 |
| RAD-ALT22-C03-07 | 365656,44 | 8217313,95 | 596,03 |
| RAD-ALT22-C03-08 | 365647,91 | 8217322,78 | 596,03 |
| RAD-ALT22-C03-09 | 365639,24 | 8217330,97 | 596,01 |
| RAD-ALT22-C03-10 | 365629,82 | 8217337,89 | 595,98 |
| RAD-ALT22-C03-11 | 365618,43 | 8217339,18 | 596,01 |
| RAD-ALT22-C03-12 | 365609,50 | 8217345,16 | 596,00 |
| CURVA 04 | | | |
| RAD-ALT22-C04-01 | 365581,46 | 8217317,09 | 598,52 |
| RAD-ALT22-C04-02 | 365591,90 | 8217314,46 | 598,51 |
| RAD-ALT22-C04-03 | 365600,96 | 8217311,73 | 598,51 |

| | | | |
|------------------|-----------|------------|--------|
| RAD-ALT22-C04-04 | 365610,96 | 8217305,31 | 598,52 |
| RAD-ALT22-C04-05 | 365620,43 | 8217298,07 | 598,49 |
| RAD-ALT22-C04-06 | 365625,36 | 8217290,24 | 598,51 |
| RAD-ALT22-C04-07 | 365632,68 | 8217280,30 | 598,52 |
| RAD-ALT22-C04-08 | 365638,73 | 8217272,20 | 598,50 |
| RAD-ALT22-C04-09 | 365636,58 | 8217258,68 | 598,50 |
| RAD-ALT22-C04-10 | 365633,93 | 8217249,09 | 598,50 |
| RAD-ALT22-C04-11 | 365629,31 | 8217238,90 | 598,52 |
| RAD-ALT22-C04-12 | 365623,88 | 8217232,33 | 598,53 |
| RAD-ALT22-C04-13 | 365617,83 | 8217223,30 | 598,51 |
| RAD-ALT22-C04-14 | 365613,88 | 8217211,07 | 598,51 |
| RAD-ALT22-C04-15 | 365610,09 | 8217202,86 | 598,51 |
| RAD-ALT22-C04-16 | 365603,62 | 8217196,20 | 598,54 |
| RAD-ALT22-C04-17 | 365596,28 | 8217191,08 | 598,52 |
| RAD-ALT22-C04-18 | 365588,69 | 8217182,83 | 598,52 |

Abaixo tabela contendo o quantitativo de terraços executados no projeto.

Tabela 5: Quantitativo de RAD's Alternativas executadas.

| Quantitativo de terraços executados nas RAD's alternativas | |
|--|-----------------|
| RAD | Quantitativo |
| RAD_ALT-10 | 4195,93 |
| RAD_ALT-11 | 1704,62 |
| RAD_ALT-12 | 7246,7 |
| RAD_ALT-13 | 278,4 |
| RAD_ALT-14 | 1475,85 |
| RAD_ALT-15 | 1990,63 |
| RAD_ALT-16 | 1143,3 |
| RAD_ALT-17 | 2161,44 |
| RAD_ALT-18 | 5167,5 |
| RAD_ALT-19 | 2957,66 |
| RAD_ALT-20 | 1141,99 |
| RAD_ALT-21 | 14518,94 |
| RAD_ALT-22 | 566,26 |
| TOTAL | 44549,22 |

Tabela 6: Quantitativo de RAD's executadas.

| Quantitativo de Terraços levantados nas RAD's | |
|---|--------------|
| RAD | Quantitativo |
| RAD-01 | 513,85 |
| RAD-02 | 1025,74 |
| RAD-03 | 901,18 |
| RAD-04 | 2772,01 |
| RAD-05 | 743,24 |

| | |
|--------------|-----------------|
| RAD-06 | 1743,2 |
| RAD-10 | 1273,52 |
| RAD-11 | 2776,93 |
| RAD-12 | 8184,66 |
| RAD-13 | 912,63 |
| Total | 20846,96 |



Figura 10: Terraços executados;

5. DESMOBILIZAÇÃO

Após a conclusão dos serviços, foram retirados da área todos os materiais utilizados durante a execução de cerca.

As máquinas que fizeram a escavação das barraginhas e dos terraços foram retiradas do local, bem como ferramentas, equipamentos e não foram deixados resíduos no local onde foram executadas as obras.

As placas de divulgação de obra foram retiradas no local de instalação.

Os canteiros de obras foram desfeitos, bem como foram retirados resíduos e não houve intervenção na vegetação no início da obra.



Figura 11: Retirada das placas de obra.

6. QUANTITATIVOS EXECUTADOS

A tabela abaixo apresenta os quantitativos listados no plano de trabalho com os efetivamente executados, devido a situações presenciadas em campo.

Tabela 7: Quantitativo de serviços executados;

| Intervenções e Serviços | Quantitativos Executado |
|---|--|
| Bacias de contenção de águas pluviais (barraginhas) | 442 unidades |
| Construção dos terraços | 66.329,6 m |
| Construção de bacias de contenção de águas pluviais (barraginhas) nos terraços. | 442 unidades |
| Cercamento de nascentes | 3.248 m |
| Mobilização Social | Comitê, Cadastramento Socioambiental, Material Gráfico |
| Topografia | 69.577,6 m locados e estaqueados |

7. CONSIDERAÇÕES FINAIS

O contato e o apoio da comunidade foram de suma importância para conclusão das obras, demonstrando boa receptividade e um posicionamento favorável às obras.

As condições climáticas favoreceram os trabalhos de máquinas, topografia e mobilização social, sendo que até a data do fechamento, os resultados obtidos aqui citados foram satisfatórios nos pontos de vista: técnico, ambiental e social.

Foi possível, durante a execução dos serviços, presenciar a atuação dos terraços e barraginhas que, no período chuvoso, conseguiram reter as enxurradas e evitar o surgimento de erosões.

A comunidade se engajou na execução das obras, fazendo a abertura de cerca para passagem de máquinas, recebendo cordialmente os mobilizadores, encarregados, engenheiros e operadores de máquinas.

Esperamos que com os trabalhos realizados possamos de alguma forma ter contribuído para a sociedade, deixando um legado de como devemos cuidar do meio ambiente, para que possamos um dia usufruir de forma consciente e racional.

8. REFERÊNCIAS BIBLIOGRÁFICAS

ABNT, Associação Brasileira de Normas Técnicas. NBR 6023. Informação e documentação - Referências - Elaboração. 2002.

AGB PEIXE VIVO. ATO CONVOCATÓRIO Nº 023/2014. - PROJETO DE RECUPERAÇÃO HIDROAMBIENTAL NA BACIA DO CORRÉGO PASTOS DOS BOIS, MUNICÍPIOS DE URUANA DE MINAS, MINAS GERAIS. 2014

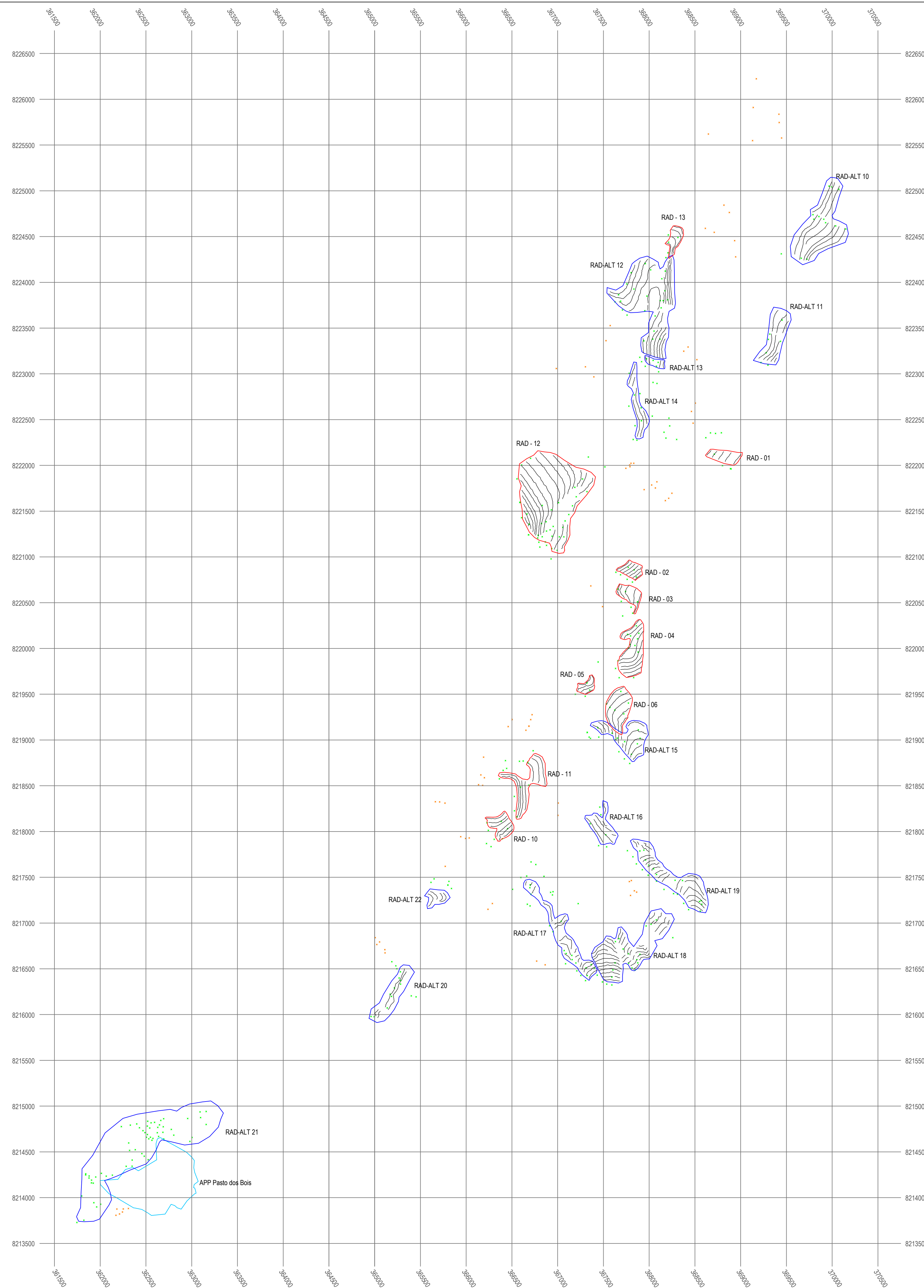
_____. Guia para Elaboração de Documentos. 2013

ANEXO

ANEXO A: MAPA “ASBUILT” DE LOCAÇÃO DAS INTERVENÇÕES



Projeção: UTM
 DATUM: WGS 1984
 MERIDIANO CENTRAL: -45°
 FUSO: 23 SUL



LEGENDA

- Terraços / Curvas de nível
- Bacia de contenção (barraginhas) dentro dos terraços
- Bacia de contenção (barraginhas) fora dos terraços
- APP Pasto dos Bois
- RAD
- RADs Alternativas



PROJETO DE RECUPERAÇÃO HIDROAMBIENTAL NA BACIA DO CÓRREGO PASTO DOS BOIS

| | |
|---|-------------------------------|
| DESCRIÇÃO: PLANTA DE LOCAÇÃO TOPOGRÁFICA | EMISSÃO DES.: MASSIS |
| LOCALIZAÇÃO: URUANA DE MINAS - MG | REV.: JRIBEIRO |
| CONTRATO: 029/2014 | ATO CONVOCATÓRIO: 023/2014 |
| | APROV.: NNEMER |
| | FIGURA: 00 |

TOPÓGRAFO:

 ERICK COSTA

ENGENHEIRO:

 NELLO NEMER CREA: 94037/D

| | |
|--|-------------------|
| ARQUIVO ELETRÔNICO: TOPOGRAFIA - URUANA DE MINAS-rev1.dwg | FOLHA: 01/01 |
| | DATA: AGO 2015 |

**ANEXO B: REGISTRO FOTOGRÁFICO DAS BACIAS DE
CONTENÇÃO REALIZADAS**

















