**Non Load Bearing (Asphalt Works)**

<table>
<thead>
<tr>
<th>LAYERS</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>50mm Asphalt Surfacing (AC)</td>
</tr>
<tr>
<td></td>
<td>150mm EVA Modified BTB (only 90% of the area)</td>
</tr>
</tbody>
</table>

**LOAD BEARING (Concrete Works)**

<table>
<thead>
<tr>
<th>LAYERS</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>400mm Jointed Concrete Pavement (JCP)</td>
</tr>
<tr>
<td></td>
<td>300mm C3 cement stabilized Subbase</td>
</tr>
<tr>
<td></td>
<td>In-situ material (allow 70%) or 600mm Rock fill (allow 30%)</td>
</tr>
</tbody>
</table>

**AREA**

- **Concrete (Load Bearing)**
  - Total Area: 4500m²
- **Asphalt (Non Load Bearing)**
  - Total Area: 6450m²
- **Jockey Joint**
  - Total Area: 350m²

**TABLE**

<table>
<thead>
<tr>
<th>MAIN ACTIVITY</th>
<th>DURATION</th>
<th>START</th>
<th>FINISH</th>
<th>CLOSURE TYPE</th>
<th>WORK DAYS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRAVO TAXIWAY (PART 1: CONCRETE)</td>
<td>3 Months</td>
<td>20 Feb 2020</td>
<td>30 May 2020</td>
<td>Full closure</td>
<td>Full week</td>
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1. Must be confirmed

**SCHEDULE**

<table>
<thead>
<tr>
<th>FEB</th>
<th>MAR</th>
<th>APR</th>
<th>MAY</th>
<th>JUN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**LAYERS AND DESCRIPTION**

- **LOAD BEARING (Concrete Works)**
  - **LAYERS**
  - **DESCRIPTION**
    - 50mm Asphalt Surfacing (AC)
    - 150mm EVA Modified BTB (only 90% of the area)
    - 400mm Jointed Concrete Pavement (JCP)
    - 300mm C3 cement stabilized Subbase
    - In-situ material (allow 70%) or 600mm Rock fill (allow 30%)

- **AREA**
  - **Concrete (Load Bearing)**
    - Total Area: 4500m²
  - **Asphalt (Non Load Bearing)**
    - Total Area: 6450m²
  - **Jockey Joint**
    - Total Area: 350m²

- **SCHEDULE**
  - **FEB**
    - **MAR**
      - **APR**
        - **MAY**
          - **JUN**

- **LAYERS**
  - **DESCRIPTION**
    - 50mm Asphalt Surfacing (AC)
    - 150mm EVA Modified BTB (only 90% of the area)
    - 400mm Jointed Concrete Pavement (JCP)
    - 300mm C3 cement stabilized Subbase
    - In-situ material (allow 70%) or 600mm Rock fill (allow 30%)
**Non Load Bearing (Asphalt Works)**

<table>
<thead>
<tr>
<th>LAYERS</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>50mm Asphalt Surfacing (AC)</td>
</tr>
<tr>
<td></td>
<td>150mm EVA Modified BTB (only 60% of the area)</td>
</tr>
</tbody>
</table>

**Load Bearing (Asphalt Works)**

<table>
<thead>
<tr>
<th>LAYERS</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>50mm Asphalt Modified Surfacing</td>
</tr>
<tr>
<td></td>
<td>220mm EME</td>
</tr>
<tr>
<td></td>
<td>260mm BSM1</td>
</tr>
</tbody>
</table>

**AREA**

- **Asphalt (Load Bearing)**
  - Total Area: 4500m²
- **Asphalt (Non Load Bearing)**
  - Total Area: 6450m²

**Main Activity**

<table>
<thead>
<tr>
<th>MAIN ACTIVITY</th>
<th>DURATION</th>
<th>START</th>
<th>FINISH</th>
<th>CLOSURE TYPE</th>
<th>WORK DAYS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRAVO TAXIWAY (PART 2: ASPHALT)</td>
<td>3 Months</td>
<td>28 Feb 2020</td>
<td>30 May 2020</td>
<td>21:00 - 07:00</td>
<td>Monday, Wednesday, Friday, Saturday, Sunday</td>
</tr>
</tbody>
</table>

1. This must still be confirmed

**Tender No.:** 3961/RD/01/DET02

**Project:** REHABILITATION OF TAXIWAYS AT O.R. TAMBO INTERNATIONAL AIRPORT

**Scale H:**

- **Scale V:**
**JULIET 1 AREA**

**LOAD BEARING**

- **Layers**
  - Straight Load Bearing
  - Non Load Bearing

- **Description**
  - 80mm EVA Modified Asphalt Surfacing
  - 160mm EVA Modified Bitumen Treated Base (BTB) (only 20% of the area)

**LAYERS**

- **DESCRIPTION**
  - 80mm EVA Modified Asphalt Surfacing
  - 160mm EVA Modified Bitumen Treated Base (BTB) (only 20% of the area)

**MAIN ACTIVITY**

- **DURATION**
  - 1 Months

- **START**
  - 30 Jun 2020

- **FINISH**
  - 30 Jul 2020

- **CLOSURE TYPE**
  - 00:00 - 05:00

- **WORK DAYS**
  - Monday, Wednesday, Friday, Saturday, Sunday

- **2020**
  - JUN
  - JUL
  - AUG
  - SEP
  - OCT

**DETAIL LAYOUT: JULIET TAXIWAY**

- **TOTAL AREA**
  - Straight Load Bearing: 4 000m²
  - Non Load Bearing: 4 300m²

**PROJECT No.:**

- 3961/RD/01/DET03

**REHABILITATION OF TAXIWAYS AT OR TAMBO INTERNATIONAL AIRPORT**

**TENDER No.:**

- ORT 6029/2019

**APPROVED:**

- 00:00 - 05:00
  - Monday, Wednesday, Friday, Saturday, Sunday

**APPROVED:**

- 00:00 - 05:00
  - Monday, Wednesday, Friday, Saturday, Sunday
**Non Load Bearing Design**

<table>
<thead>
<tr>
<th>WIDTH</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 X (15m Wide X 100m) long</td>
<td>80mm EVA Modified Asphalt Surfacing</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WIDTH</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>25m Wide X 100m long</td>
<td>175mm EVA Modified Bitumen Treated Base (BTB)</td>
</tr>
</tbody>
</table>

**Load Bearing Design**

<table>
<thead>
<tr>
<th>WIDTH</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>80mm EVA Modified Asphalt Surfacing</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WIDTH</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>220mm EME</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WIDTH</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>200mm BSM1</td>
<td></td>
</tr>
</tbody>
</table>

**Main Activity**

**Echo Taxi Lane**

- **Duration:** 4 Months
- **Start:** 30 Jul 2020
- **Finish:** 13 Dec 2020
- **Closure Type:** Full week
- **Work Days:** 00:00 - 05:00

1. Additional hours are requested and may or may not be granted by contract award (21:00 - 07:00)
Non Load Bearing Design

<table>
<thead>
<tr>
<th>LAYERS</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>80mm EVA Modified Asphalt Surfacing</td>
</tr>
<tr>
<td></td>
<td>175mm EVA Modified Bitumen Treated Base (BTB)</td>
</tr>
</tbody>
</table>

Load Bearing Design

<table>
<thead>
<tr>
<th>LAYERS</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>80mm EVA Modified Asphalt Surfacing</td>
</tr>
<tr>
<td></td>
<td>220mm EME</td>
</tr>
<tr>
<td></td>
<td>200mm BSM1</td>
</tr>
</tbody>
</table>

Non Load Bearing
2 X (15m Wide X 100m) long

Load Bearing
25m Wide X 100m long

DRAWING DESCRIPTION:

CONSULTANT:

MAIN ACTIVITY

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>DURATION</th>
<th>START</th>
<th>FINISH</th>
<th>CLOSURE TYPE</th>
<th>WORK DAYS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECHO TAXILANE (SUBSOIL DRAINAGE)</td>
<td>4 Months</td>
<td>01 Oct 2019</td>
<td>28 Feb 2020</td>
<td>21:00 - 07:00</td>
<td>Full week</td>
</tr>
<tr>
<td>ECHO TAXILANE</td>
<td>4 Months</td>
<td>30 Jul 2020</td>
<td>13 Dec 2020</td>
<td>00:00 - 05:00</td>
<td>Full week</td>
</tr>
</tbody>
</table>

1. Where the indicated extended closure Time is not achieved the requirement to increase productivity is listed as an extra Time item (S27, 20)
2. Additional hours are requested and may or may not be granted by contract award (2110 - 01/00)

SCALE H:

3961

02 OF SHOWN

O.R TAMBO INTERNATIONAL AIRPORT
MAINTENANCE AND ENGINEERING
SOUTH AFRICA SOC Ltd

APPROVED:

SIGN:

DATE:

30 Jul 2020

FINISH:

STOP

00:00 - 05:00

2019-05

STOP

FULL WEEK

2020

1682

MAINTENANCE AND ENGINEERING
O.R TAMBO INTERNATIONAL AIRPORT
SOUTH AFRICA SOC Ltd

APPROVED:

SIGN:

DATE:

28 Feb 2020

FINISH:

STOP

00:00 - 05:00

2019-05

STOP

FULL WEEK

2020

1682

MAINTENANCE AND ENGINEERING
O.R TAMBO INTERNATIONAL AIRPORT
SOUTH AFRICA SOC Ltd

APPROVED:

SIGN:

DATE:

30 Jul 2020

FINISH:

STOP

00:00 - 05:00

2019-05

STOP

FULL WEEK

2020

1682

MAINTENANCE AND ENGINEERING
O.R TAMBO INTERNATIONAL AIRPORT
SOUTH AFRICA SOC Ltd

APPROVED:

SIGN:

DATE:

28 Feb 2020

FINISH:

STOP

00:00 - 05:00

2019-05

STOP

FULL WEEK

2020

1682

MAINTENANCE AND ENGINEERING
O.R TAMBO INTERNATIONAL AIRPORT
SOUTH AFRICA SOC Ltd

APPROVED:

SIGN:

DATE:

30 Jul 2020

FINISH:

STOP

00:00 - 05:00

2019-05

STOP

FULL WEEK

2020

1682

MAINTENANCE AND ENGINEERING
O.R TAMBO INTERNATIONAL AIRPORT
SOUTH AFRICA SOC Ltd

APPROVED:

SIGN:

DATE:

28 Feb 2020

FINISH:

STOP

00:00 - 05:00

2019-05

STOP

FULL WEEK

2020

1682

MAINTENANCE AND ENGINEERING
O.R TAMBO INTERNATIONAL AIRPORT
SOUTH AFRICA SOC Ltd

APPROVED:

SIGN:

DATE:

30 Jul 2020

FINISH:

STOP

00:00 - 05:00

2019-05

STOP

FULL WEEK

2020

1682

MAINTENANCE AND ENGINEERING
O.R TAMBO INTERNATIONAL AIRPORT
SOUTH AFRICA SOC Ltd

APPROVED:

SIGN:

DATE:

28 Feb 2020

FINISH:

STOP

00:00 - 05:00

2019-05

STOP

FULL WEEK

2020

1682

MAINTENANCE AND ENGINEERING
O.R TAMBO INTERNATIONAL AIRPORT
SOUTH AFRICA SOC Ltd

APPROVED:

SIGN:

DATE:

30 Jul 2020

FINISH:

STOP

00:00 - 05:00

2019-05

STOP

FULL WEEK

2020

1682

MAINTENANCE AND ENGINEERING
O.R TAMBO INTERNATIONAL AIRPORT
SOUTH AFRICA SOC Ltd

APPROVED:

SIGN:

DATE:

28 Feb 2020

FINISH:

STOP

00:00 - 05:00

2019-05

STOP

FULL WEEK

2020
### QUEBEC DESIGN

<table>
<thead>
<tr>
<th>LAYERS</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>80mm EVA Modified Asphalt Surfacing</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LAYERS</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>160mm EVA Modified Bitumen Treated Base (BTB) (only 10% of the area)</td>
<td></td>
</tr>
</tbody>
</table>

### ALPHA DESIGN

<table>
<thead>
<tr>
<th>LAYERS</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>80mm EVA Modified Asphalt Surfacing</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LAYERS</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>220mm EVA Modified Bitumen Treated Base (BTB) (only 50% of the area)</td>
<td></td>
</tr>
</tbody>
</table>

### AREA

- **Alpha Design**
  - Total Area: 8 400m²

- **Quebec Design**
  - Total Area: 8 300m²

### MAIN ACTIVITY

<table>
<thead>
<tr>
<th>MAIN ACTIVITY</th>
<th>DURATION</th>
<th>START</th>
<th>FINISH</th>
<th>CLOSURE TYPE</th>
<th>WORK DAYS</th>
</tr>
</thead>
<tbody>
<tr>
<td>QUEBEC TAXIWAY</td>
<td>1 Month</td>
<td>30 Jul 2020</td>
<td>31 Aug 2020</td>
<td>00:00 - 05:00 Monday, Wednesday, Friday, Saturday, Sunday</td>
<td></td>
</tr>
<tr>
<td>ALPHA TAXIWAY (21R)</td>
<td>1 Month</td>
<td>30 Jul 2020</td>
<td>31 Aug 2020</td>
<td>00:00 - 05:00 Monday, Wednesday, Friday, Saturday, Sunday</td>
<td></td>
</tr>
</tbody>
</table>

**CLIENT:**
- OR TAMBO INTERNATIONAL AIRPORT

**PROJECT NO.:**
- CLOSURE TYPE
- WORK DAYS
- APPROVED

**SIGNATURES:**
- CONSULTANT:
- REVIEWED BY:
- CHECKED BY:
- PREPARED BY:

**DATE:**
- PROJECT MANAGER
- DRAFT
- DATE

**SCALE H:**
- SCALE V:
- SCALE:

**TENDER NO.:**
- PROJECT:
- APPOVED:
- CLIENT MANAGEMENT

**LAYER DESCRIPTIONS:**
- **QUEBEC DESIGN**
  - 80mm EVA Modified Asphalt Surfacing
  - 160mm EVA Modified Bitumen Treated Base (BTB) (only 10% of the area)

- **ALPHA DESIGN**
  - 80mm EVA Modified Asphalt Surfacing
  - 220mm EVA Modified Bitumen Treated Base (BTB) (only 50% of the area)

**TOTAL AREA:**
- 8 400m²
- 8 300m²

**CLOSURE TYPE:**
- 00:00 - 05:00 Monday, Wednesday, Friday, Saturday, Sunday

**AREA:**
- Alpha Design
  - Total Area: 8 400m²
- Quebec Design
  - Total Area: 8 300m²
REHABILITATION OF TAXIWAYS AT OR TAMBO INTERNATIONAL AIRPORT

**PAVEMENT DESIGN**

**LAYER**

- 80mm EVA Modified Asphalt Surfacing
- 160mm EVA Modified Bitumen Treated Base (BTB) (only 30% of the area)

**AREA**

- Non Load Bearing
- Total Area: 9,000m²

**Pavement Design**

**Main Activity**

- ALPHA - BRAVO - JULIET JUNCTION - A1
  - Duration: 1 Month
  - Work Days: Monday, Wednesday, Friday, Saturday, Sunday
  - Start: 30 May 2020
  - Finish: 29 Jun 2020

- ALPHA - BRAVO - JULIET JUNCTION - A2
  - Duration: 1 Month
  - Work Days: Monday, Wednesday, Friday, Saturday, Sunday
  - Start: 30 May 2020
  - Finish: 29 Jun 2020

**Closure Type**

- 00:00 - 05:00

**Work Days**

- Monday, Wednesday, Friday, Saturday, Sunday

**Description**

80mm EVA Modified Asphalt Surfacing

160mm EVA Modified Bitumen Treated Base (BTB) (only 30% of the area)
### PAVEMENT MATERIAL SPECIFICATION IS DETAILED IN THE PROJECT SPECIFICATION

<table>
<thead>
<tr>
<th>No</th>
<th>DESCRIPTION</th>
<th>CODE</th>
<th>No</th>
<th>DESCRIPTION</th>
<th>CODE</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>ASPHALT SURFACING</td>
<td>AC</td>
<td>10</td>
<td>ROCK FILL</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>EVA MODIFIED ASPHALT SURFACING</td>
<td>EVA Mod AC</td>
<td></td>
<td>11</td>
<td>BITUMEN TREATED BASE</td>
</tr>
<tr>
<td>3</td>
<td>BITUMEN TREATED BASE</td>
<td>BTB</td>
<td></td>
<td>12</td>
<td>EVA MODIFIED BITUMEN TREATED BASE</td>
</tr>
<tr>
<td>4</td>
<td>EVA MODIFIED BITUMEN TREATED BASE</td>
<td>EVA Mod BTB</td>
<td></td>
<td>13</td>
<td>MODIFIED ENGINES A MOULLE ELEVÉ</td>
</tr>
<tr>
<td>5</td>
<td>MODIFIED ENGINES A MOULLE ELEVÉ</td>
<td>EME</td>
<td></td>
<td>14</td>
<td>Bitumen Stabilised Material</td>
</tr>
<tr>
<td>6</td>
<td>Bitumen Stabilised Material</td>
<td>BSTM</td>
<td></td>
<td>15</td>
<td>Jointed Concrete Pavement</td>
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<tr>
<td>7</td>
<td>Jointed Concrete Pavement</td>
<td>JCP</td>
<td></td>
<td>16</td>
<td>Cement Stabilise Subbase</td>
</tr>
<tr>
<td>8</td>
<td>Cement Stabilise Subbase</td>
<td>C</td>
<td></td>
<td>17</td>
<td>In-Situ Material</td>
</tr>
</tbody>
</table>

**Note:**
- AC: Asphalt surfacing
- BTB: Bitumen treated base
- EVA Mod AC: EVA modified asphalt concrete
- EVA Mod BTB: EVA modified bituminous treated base
- EME: Modified engines a moule elevé
- BSTM: Bitumen stabilised material
- JCP: Jointed concrete pavement
- C: Cement stabilise subbase
- -: Not specified

**Details:**
- **TAXIWAY BRAVO:** CROSS SECTION A1 - A1
- **TAXIWAY BRAVO:** CROSS SECTION A2 - A2
- **TAXIWAY JULIET:** CROSS SECTION B - B
- **TAXIWAY JUNCTION:** CROSS SECTION C - C
- **TAXIWAY ALPHA:** CROSS SECTION D - D
- **TAXIWAY ECHO:** CROSS SECTION F - F

**Materials Used:**
- 80mm EVA Mod AC
- 220mm EVA Mod BTB
- 50mm AC
- 150mm BTB
- 15mm EVA Mod BTB
- 600mm Rock fill
- In-situ 600mm Rock fill
- 80mm EVA Mod AC (1)

**Signs and Markings:**
- Grass verge
- EVA modified bitumen treated base
- Bitumen stabilised material