STANDARD PAVEMENT SUBSURFACE
DRAINAGE DETAILS

VOLUME 3 - FULL DEPTH ASPHALT PAVEMENT DETAILS

related drawings:
VOLUME 1 - DESIGN AND LOCATION
VOLUME 2 - GRANULAR PAVEMENT WITH BITUMINOUS SURFACING DETAILS
VOLUME 4 - ASPHALT OVER BOUND SUBBASE PAVEMENT DETAILS
VOLUME 5 - RIGID PAVEMENT DETAILS
VOLUME 6 - SUPPLEMENTARY MODEL DRAWINGS
### REVISED REGISTER

<table>
<thead>
<tr>
<th>ED/REV</th>
<th>SHEET</th>
<th>ISSUE DETAIL</th>
<th>AUTHORISED</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/0</td>
<td>ALL</td>
<td>COMPLETE REVISION</td>
<td>PRP&amp;GE*</td>
<td>28.10.2010</td>
</tr>
<tr>
<td>3/1</td>
<td>ALL</td>
<td>MINOR REVISION</td>
<td>PRP&amp;GE*</td>
<td>15.04.2011</td>
</tr>
<tr>
<td>3/2</td>
<td>ALL</td>
<td>MINOR REVISION</td>
<td>PRP&amp;GE*</td>
<td>16/08/2012</td>
</tr>
</tbody>
</table>

### INDIEX

<table>
<thead>
<tr>
<th>DETAIL</th>
<th>SHEET</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>01</td>
<td>COVER SHEET</td>
</tr>
<tr>
<td>-</td>
<td>02</td>
<td>REVISED REGISTER AND INDEX</td>
</tr>
<tr>
<td>PTA</td>
<td>03</td>
<td>Full Depth Asphalt Pavement Structure</td>
</tr>
<tr>
<td>A01-A</td>
<td>04</td>
<td>Trench Drain and Drainage Layer under Low 'SO' Kerb</td>
</tr>
<tr>
<td>A02-A</td>
<td>04</td>
<td>Narrow Median between Normal Crossfall Pavements with Drainage Layer</td>
</tr>
<tr>
<td>A03-A</td>
<td>04</td>
<td>Drainage Layer under High Pavement Edge (Possible Trench Drain)</td>
</tr>
<tr>
<td>A04-A</td>
<td>04</td>
<td>Trench Drain and Drainage Layer under Low Pavement Edge</td>
</tr>
<tr>
<td>A05-A</td>
<td>05</td>
<td>Trench Drain and Drainage Layer under High 'SO' Kerb</td>
</tr>
<tr>
<td>A06-A</td>
<td>05</td>
<td>Trench Drain under Low 'SO' Kerb No Drainage Layer</td>
</tr>
<tr>
<td>A07-A</td>
<td>05</td>
<td>High Pavement Edge No Drainage Layer (Possible Trench Drain)</td>
</tr>
<tr>
<td>A08-A</td>
<td>05</td>
<td>Trench Drain under Low Pavement Edge No Drainage Layer</td>
</tr>
<tr>
<td>A09-A</td>
<td>06</td>
<td>Trench Drain under Low 'SO' Kerb with Guard Fence No Drainage Layer</td>
</tr>
<tr>
<td>A10-A</td>
<td>06</td>
<td>Narrow Median between Normal Crossfall Pavements No Drainage Layer</td>
</tr>
<tr>
<td>A11-A</td>
<td>06</td>
<td>Trench Drain under Low 'SA' Kerb No Drainage Layer</td>
</tr>
<tr>
<td>A12-A</td>
<td>06</td>
<td>Normal Median between Superelevated Pavements No Drainage Layer</td>
</tr>
<tr>
<td>A13-A</td>
<td>07</td>
<td>Trench Drain under Low 'SO' Kerb No Drainage Layer</td>
</tr>
<tr>
<td>A14-A</td>
<td>07</td>
<td>Trench Drain under High 'SA' Kerb No Drainage Layer</td>
</tr>
</tbody>
</table>

* DENOTES PRINCIPAL ROAD PAVEMENT AND GEOTECHNICAL ENGINEER
DESIGN:
1. Layer thicknesses determined by pavement design.
2. Pavement subsurface drains to be designed in accordance with these drawings and RMS specifications.
3. Selected material (R44).

DRAINAGE LAYER:
1. Drainsage layer to be provided in rock cuttings and wet soil cuttings (R44).
2. Where drainage layer provided in wet soil cuttings, the subgrade may require stabilisation to reduce its moisture susceptibility.

NOTES

Selected Material
300mm (min)
Possible Drainage Layer
Subgrade

FULL DEPTH ASPHALT PAVEMENT STRUCTURE
DETAIL PTA
NOT TO SCALE
TRENCH DRAIN AND DRAINAGE LAYER UNDER LOW 'SO' KERB

DETAIL A01-A

NOT TO SCALE

DRAINAGE LAYER UNDER HIGH PAVEMENT EDGE (POSSIBLE TRENCH DRAIN)

DETAIL A03-A

NOT TO SCALE

NARROW MEDIAN BETWEEN NORMAL CROSSFALL PAVEMENTS WITH DRAINAGE LAYER

DETAIL A02-A

NOT TO SCALE

TRENCH DRAIN AND DRAINAGE LAYER UNDER LOW PAVEMENT EDGE

DETAIL A04-A

NOT TO SCALE

NOTES

1. DETAILS OF WORK OTHER THAN SUBSURFACE DRAINAGE ARE DEPICTED AS TYPICAL SITUATION ONLY AND ARE NOT APPROPRIATE FOR ALL PROJECTS.
2. TRENCH DRAIN DETAILS TO BE DESIGNED IN ACCORDANCE WITH TABLE 1 VOLUME 1.
3. ALL DIMENSIONS IN MILLIMETRES UNLESS SHOWN OTHERWISE.

ISSUE STATUS: FOR USE
PREPARED BY: PAVEMENT STRUCTURES SECTION
PRINCIPAL ROAD PAVEMENT ENGINEERING TECHNOLOGY
G. VOROBIEFF

© COPYRIGHT ROADS AND MARITIME SERVICES
3. TRENCH DRAIN DETAILS TO BE DESIGNED IN ACCORDANCE WITH TABLE 1 VOLUME 1.
2. AS TYPICAL SITUATION ONLY AND ARE NOT APPROPRIATE FOR ALL PROJECTS.
1. DETAILS OF WORK OTHER THAN SUBSURFACE DRAINAGE ARE DEPICTED

Table:

<table>
<thead>
<tr>
<th>Sheet No</th>
<th>No of Sheets</th>
<th>© COPYRIGHT ROADS AND MARITIME SERVICES</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000.000.0011.PT.0011</td>
<td>07</td>
<td>0000.000.PT.0011 REGISTRATION NUMBER</td>
</tr>
</tbody>
</table>

NOTES
- 1. DETAILS OF WORK OTHER THAN SUBSURFACE DRAINAGE ARE DEPICTED
- 2. TRENCH DRAIN DETAILS TO BE DESIGNED IN ACCORDANCE WITH TABLE 1 VOLUME 1.
- 3. ALL DIMENSIONS IN MILLIMETRES UNLESS SHOWN OTHERWISE.

DETAIL A05-A
TRENCH DRAIN AND DRAINAGE LAYER UNDER HIGH 'SO' KERB
NOT TO SCALE

DETAIL A06-A
TRENCH DRAIN UNDER LOW 'SO' KERB NO DRAINAGE LAYER
NOT TO SCALE

DETAIL A07-A
HIGH PAVEMENT EDGE NO DRAINAGE LAYER (POSSIBLE TRENCH DRAIN)
NOT TO SCALE

DETAIL A08-A
TRENCH DRAIN UNDER LOW PAVEMENT EDGE AND NO DRAINAGE LAYER
NOT TO SCALE

NOTES
- PROVIDE TRENCH DRAIN ON HIGH SIDE OF PAVEMENT WHERE ADJACENT DEPRESSED MEDIAN DRAIN INVERT IS ABOVE THE BASE OF THE SELECT MATERIAL ZONE AND LONGITUDINAL GRADE OF DEPRESSED MEDIAN IS LESS THAN 2%.
- GRADE OF DEPRESSED MEDIAN IS LESS THAN 2%.
- BASE OF THE SELECT MATERIAL ZONE AND LONGITUDINAL ADJACENT DEPRESSED MEDIAN DRAIN INVERT IS ABOVE THE
NOTES

1. DETAILS OF WORK OTHER THAN SUBSURFACE DRAINAGE ARE DEPICTED AS TYPICAL SITUATION ONLY AND ARE NOT APPROPRIATE FOR ALL PROJECTS.

2. TRENCH DRAIN DETAILS TO BE DESIGNED IN ACCORDANCE WITH TABLE 1 VOLUME 1.

3. ALL DIMENSIONS IN MILLIMETRES UNLESS SHOWN OTHERWISE.
TRENCH DRAIN DETAILS TO BE DESIGNED IN ACCORDANCE WITH TABLE 1 VOLUME 1.

3. AS TYPICAL SITUATION ONLY AND ARE NOT APPROPRIATE FOR ALL PROJECTS.

DETAILS OF WORK OTHER THAN SUBSURFACE DRAINAGE ARE DEPICTED

TRENCH DRAIN UNDER LOW 'SO' KERB NO DRAINAGE LAYER

DETAIL A13-A

NOT TO SCALE

TRENCH DRAIN UNDER HIGH 'SA' KERB NO DRAINAGE LAYER

DETAIL A14-G

NOT TO SCALE

NOTES

1. DETAILS OF WORK OTHER THAN SUBSURFACE DRAINAGE ARE DEPICTED AS TYPICAL SITUATION ONLY AND ARE NOT APPROPRIATE FOR ALL PROJECTS.
2. TRENCH DRAIN DETAILS TO BE DESIGNED IN ACCORDANCE WITH TABLE 1 VOLUME 1.
3. ALL DIMENSIONS IN MILLIMETRES UNLESS SHOWN OTHERWISE.