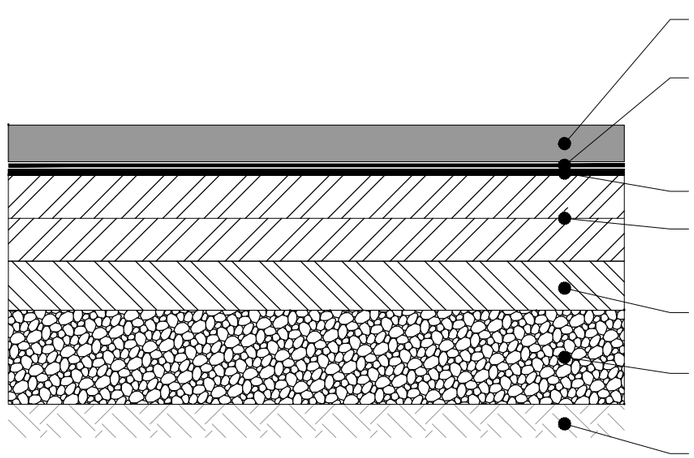
Deep Strength Asphalt Pavement							
Road Type	Pavement Type	Subgrade CBR (%)	Wearing Course Asphalt	Size 20, Type SI Intermediate Course Asphalt (mm)	Size 20, Type SI Base Course Asphalt (mm)	20mm Class 3, 3% Cement Treated Crushed Rock Upper Subbase	Pavement Thickness Excluding Wearing Course (mm)
Arterial & Major Roads	Deep Strength Asphalt	3	40mm layer, Size 14 Type H 40mm layer, Size 14 Type V at roundabouts	140 (placed as 2 x 70mm layers)	90	200	430
		5	40mm layer, Size 14 Type H 40mm layer, Size 14 Type V at roundabouts	180 (placed as 2 x 90mm layers)	70	150	400
		8	40mm layer, Size 14 Type H 40mm layer, Size 14 Type V at roundabouts	140 (placed as 2 x 70mm layers)	80	150	370



MAJOR AND ARTERIAL ROAD - DEEP STRENGTH ASPHALT PAVEMENT

Construction Notes

General

Site specific geotechnical investigations shall be undertaken prior to selecting a particular pavement profile based on the local subgrade conditions.

1. The testing frequency to confirm subgrade conditions, including the depth of groundwater, shall be undertaken in accordance with VicRoads Technical Note 78 - Guide to Planning Geotechnical Site Investigations.
2. Ground improvement works may include the construction of bridging layers over soft ground as well as adequate groundwater and drainage management.
3. Where ground improvement works have been undertaken, the pavement profile for a subgrade CBR of ≥5% may be adopted.
4. Pavement construction shall be in accordance with but not limited to the following VicRoads Sections:
   - 100 Series - General
     - 173 Examination and Testing of Materials and Work (Roadworks)
   - 200 Series - Formation
   - 300 Series - Flexible Pavements
     - 304 Unbound Flexible Pavement Construction
     - 306 Cementitious Treated Pavement Subbase
     - 310 Preparation of Granular Pavements for Bituminous Surfacing
   - 400 Series - Asphalt and Surface Treatments
     - 407 Hot Mix Asphalt
     - 409 Warm Mix Asphalt
   - 800 Series - Materials

Drainage

8. Appropriate drainage design in accordance with VicRoads Standard Section 702 - Subsurface Drainage and VicRoads standard drawing SD 1601 shall be undertaken prior to construction of any pavement structures.

Asphalt Pavements

9. Asphalt mix designs and construction of deep strength asphalt pavements shall be in accordance with VicRoads Standard Section 407 - Hot Mix Asphalt. Where Warm Mix Asphalt is approved for use, asphalt pavements shall be in accordance with VicRoads Standard Section 409 and Section 407.
10. Intermediate Course and Base Course to be Asphalt Type SI, unless otherwise specified by Council.
11. Asphalt shall be spread in layers at the compacted thicknesses shown on the drawings or otherwise specified by the site superintendent.
12. Individual asphalt layers shall not exceed a compacted thickness of 90 mm.
13. The total thickness of asphalt (comprised of structural plus wearing course asphalt) over a cement treated layer must be >175 mm to prevent reflective cracking.

Recycled Materials

14. Class CC3 and CC4 recycled crushed concrete in accordance with VicRoads Standard Section 820 - Crushed Concrete for Pavement Subbase and Light Duty Base may be substituted for Class 3 and 4 crushed rock subbase.
15. The use of other selected recycled materials in road pavements can be implemented in accordance with Table A of VicRoads Technical Note TN 107 – Use of Recycled Materials in Road Pavements where applicable.

No	Revision	Date
A	APPROVED FOR USE	DEC 2020

DRAWING NOT TO SCALE

Approved: Project Services

Date: Dec. 2020

Drawing Title: MAJOR AND ARTERIAL ROAD ASPHALT PAVEMENT

Original Size: A3

Drawing No: CPP1103

Rev: A

Plot Date: 18 December 2020 - 1:29 AM