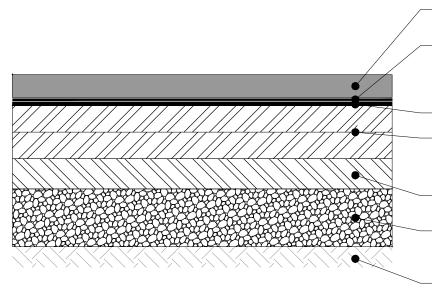
	Deep Strength Asphalt Pavement								
Road Type	Pavement Type	Subgrade CBR (%)	Wearing Course Asphalt	Size 20, Type SI Intermediate Course Asphalt (mm)	Size 20, Type SI Base Course Asphalt (mm)	20mm Class 3, 3% Cement Treated Crushed Rock Upper Subbase	Pavement Thickness Excluding Wearing Course (mm)	3	
Collector	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)	80	200	420	5	
		5	40mm layer, Size 14 Type H 40mm layer, Size 14 Type V at roundabouts	120 (placed as 2 x 60mm layers)	80	150	350		
		8	40mm layer, Size 14 Type H 40mm layer, Size 14 Type V at roundabouts	120 (placed as 2 x 60mm layers)	60	150	330		



COLLECTOR ROAD - DEEP STRENGTH ASPHALT PAVEMENT

Wearing Course Asphalt ≥ 94% Characteristic density ratio

Waterproofing Seal Bitumen Emulsion Primer Seal, size 7mm aggregate. Emulsion to not exceed 60% bitumen content. Applied at a minimum rate of 0.9 L/m² of residual binder.

Prime coat, on crushed rock base

Size 20, Type SI Intermediate Course Asphaltinstalled in 2 no. layers Compacted to ≥ 94% Characteristic density ratio

Size 20, Type SI Base Course Asphalt Compacted to ≥ 94% Characteristic density ratio 20mm Class 3, 3% Cement Treated Crushed Rock Upper Subbase ≥97% Characteristic density ratio

Prepared subgrade CBR = 3%

(CBR ≥ 5% where ground improvement undertaken)

Construction Notes

General

- Site specific geotechnical investigations shall be undertaken prior to selecting a particular pavement profile based on the local subgrade conditions.
- 2. 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.
- Ground improvement works may include the construction of bridging layers over soft ground as well as adequate groundwater and drainage management.
- Where ground improvement works have been undertaken, the pavement profile for a subgrade CBR of ≥5% may be adopted.
- 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
 - o 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

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

- 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. 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

- 13. 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.
- 14. 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.

			Disclaimer:
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No	No Revision		professional.



Project Services	ASPHALT PAVEMENT	Λ
Dec. 2020	A3 Drawing No: CPP1102	Rev: A