Hot Mix Asphalt

Hayden Brett
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Subcontractor(if applicable)

ITP Details:

Client	Construction Process	Contract Number:	Specifications	Structure / Component	Prepared By	Approved By
Regional Roads Victoria	**Hot Mix Aspahlt**		VicRoads Sections 407 Hot Mix Asphalt (2014) & AS2150 (2005) Hot Mix Asphalt – A Guide to Good Practice	*Asphalt Pavements*		

Project Location

Lot no.

Lot Details

Lot size/qtys

Date Start: - End: -

Asphalt Layer

Text Legend:

HP	Hold Point	Work shall not proceed past the HP until released by the Superintendent	**IP**	Inspection point	Formal Inspection to be done and recorded
IHP	SWA Internal Hold Point	Work shall not proceed past the IHP until released by SWA	**TP**	Test Point	Product compliance test to be undertaken and recorded/ reported

WP	Witness Point	An inspection which must be witnessed by the Superintendent	**SCP**	Survey conformance point	A qualified surveyor to check product/section/structure and report
AP	Approval Point	Written or verbal approval given by the Superintendent			

1. Preliminary Works

Task/Activity Description	Acceptance Criteria	Reference Documents	Method & Record of conformity	Signature 1	Photos	Comments
1.1 Site Inspection and Base Conditions **Frequency** Prior to commencing paving.	Surface on which asphalt is to be placed is essentially dry and free from surface water. All manhole and valve covers have been raised or lowered to the new surface level of the pavement.	Vicroads std sec 407.14 AS2150 10.1	**Responsibility:** WP - Site supervisor **Method**: Visual Inspection **Record**: Signed ITP			

Task/Activity Description	Acceptance Criteria	Reference Documents	Method & Record of conformity	Signature 1	Photos	Comments
1.2 Ambient Conditions for Asphalt Placement **Frequency** Prior to commencing paving.	Asphalt shall not be placed if the majority of the surface area is below: Base & Intermediate Courses: 5°C for conventional binders or 10°C for PMBs & Class 600 Wearing Courses: 10°C for conventional binders or 15°C for PMBs.	Vicroads std sec 407.13	**Responsibility:** IP - Project Engineer/Site supervisor **Method**: Calibrated thermometer **Record**: Signed ITP			
1.3 Surface Preparation **Frequency** Prior to commencing paving.	The area to be paved is free of all loose and deleterious material	Vicroads std sec 407.14, AS2150 10.3	**Responsibility:** WP - Project Engineer/Site Supervisor **Method**: Sweep Clean and Inspect **Record**: Signed ITP			

2. Construction works

Task/Activity Description	Acceptance Criteria	Reference Documents	Inspection method & Record of conformity	Signature 1	Photos	Comments
2.1 Application of Tack Coat **Frequency**:Prior to commencing paving	Tack coat to be sprayed in a uniform film over the surface area at a rate of 0.15-0.30 L/m2 of residual binder (60% bitumen). This rate is to be doubled on joints and chases. Tack coat must be allowed to turn from brown to black before paving. NOTE: Tack coat is not required on clean, freshly placed asphalt or primed surfaces or when the layer to be placed exceeds 50mm unless directed by the Client	Vicroads std sec 407.15 AS2150 11	**Responsibility:** WP - Project Engineer/Site Supervisor **Method**: Visual Inspection & photo evidence **Record**: Signed ITP/Spray Record			
2.2 Planned Joints **Frequency**:Prior to commencing paving	A site specific paving plan shall be generated by the contractor prior to asphalt commencement to adhere to the following: Transverse Joints: Offset from layer to layer by at least 2m Longitudinal Joints: Offset from layer to layer by at least 150mm and be within 300mm of the lane line or centre of lane. Wearing course shall be on lane lines. Where new pavement abuts an existing pavement, the existing pavement shall be removed in steps to achieve an offset from layer to layer of not less than 150mm.	Vicroads std sec 407.17 (b) & (c)	**Responsibility:** WP - Project Engineer/Site Supervisor **Method**: Measure and mark out runs and submit Paving Plan to Client if requested **Record**: Signed ITP/Job Sheet			

Task/Activity Description	Acceptance Criteria	Reference Documents	Inspection method & Record of conformity	Signature 1	Photos	Comments
2.3 Commencement of Placing **Frequency**:Prior to commencing Paving	The placement of asphalt on the sub-base or granular base for a new pavement or for an overlay of an existing bituminous surfaced pavement shall not commence until the consent to proceed is obtained from the Vicroads Superintendent.	VcRoads Std Specs 407.18	**Responsibility:** HP - SWA Project Engineer **Method**: Visual Inspection **Record**: Signed ITP			
2.4 Delivery of Mix **Frequency**:Each Load	Asphalt is not segregated, binder is not separated or does not contain uncoated particles and the temperature from mixing plant is not more than 175°C.	VcRoads Std Specs 407.16 Table 407.081	**Responsibility:** WP - Project Engineer/Site Supervisor **Method**: Visual Inspection & Delivery Docket **Record**: Signed ITP & Production Dockets			
2.5 Traceability **Frequency**:Each Load	Ability to locate asphalt test results placed in three dimensions i.e. start/end chainage, offset/lane and layer	Fulton Hogan Quality Plan	**Responsibility:** IP - Project Engineer/Site Supervisor **Method**: Measure and Record on Daily Lot Record **Record**: Signed ITP & Traceability			

Task/Activity Description	Acceptance Criteria	Reference Documents	Inspection method & Record of conformity	Signature 1	Photos	Comments
2.6 Layer Thickness and Level Control **Frequency**:Regularly during paving	Thickness of asphalt layer conforms to asphalt thickness on drawings or specifications	VcRoads Std Specs 407.20	**Responsibility:** WP - Project Engineer/Site Supervisor **Method**: Dips, string line, measurements off kerb **Record**: Signed ITP & Traceability			
2.7 Paver Stoppages **Frequency**:If paver stops	A transverse joint shall be constructed if the asphalt in front of the screed cools to below 120°C Asphalt should be ramped down by constructing a temporary wedge of dense graded or cold mixed asphalt. Max ramp grade: 40km/h – 20-1 60km/h – 30-1 80km/h – 40-1 >80km/h – 50-1	VcRoads Std Specs 407.20 (c)	**Responsibility:** WP - Project Engineer/Site Supervisor **Method**: Thermometer **Record**: Signed ITP & Traceability			

Task/Activity Description	Acceptance Criteria	Reference Documents	Inspection method & Record of conformity	Signature 1	Photos	Comments
2.8 Surface Finish of Wearing Course **Frequency**:During paving and after final roll	The finished surface of asphalt wearing course shall be of uniform appearance, free of dragged areas, cracks, open textured patches and roller marks	VcRoads Std Specs 407.23 (a) (i)	**Responsibility:** WP - Project Engineer/Site Supervisor **Method**: Visual Inspection **Record**: Signed ITP & Traceability			
2.9 Kerb and Channel **Frequency**:During paving and after final roll	The edge of the wearing course shall be either flush with or not more than 5 mm above the lip of the channel unless otherwise specified	VcRoads Std Specs 407.23 (a) (ii)	**Responsibility:** WP - Project Engineer/Site Supervisor **Method**: Visual Inspection & Measurement **Record**: Signed ITP & Traceability			

Task/Activity Description	Acceptance Criteria	Reference Documents	Inspection method & Record of conformity	Signature 1	Photos	Comments
2.10 Alignment of layers not placed against concrete edge **Frequency**:During paving and at completion of work	The edge of asphalt layers shall not be more than 50mm inside nor more than 100mm outside, the designed offset from centreline or design line. The rate of change of offset of the edge of layer shall not be greater than 25mm in 10m	VcRoads Std Specs 407.23 (a) (iv)	**Responsibility:** SCP - Client Surveyor, Project Engineer, Site Supervisor **Method**: Alignment as marked by Surveyor and measured **Record**: Survey Report			
2.11 Width of layers not placed against concrete edge **Frequency**:During paving and at completion of work	The width of asphalt layers shall not be less than the design or specified width of layer by more than 50mm or greater than the design or specified width by more than 100mm.	VcRoads Std Specs 407.23 (a) (v)	**Responsibility:** IP - Project Engineer/Site Supervisor **Method**: Measurement **Record**: Survey Report			

Task/Activity Description	Acceptance Criteria	Reference Documents	Inspection method & Record of conformity	Signature 1	Photos	Comments
2.12 Trafficking of Asphalt & Paving of multiple layers **Frequency: During** paving and at completion of work	Trafficking of asphalt or placement of asphalt over freshly laid asphalt layer is not permitted unless the majority of the asphalt has a surface temperature lower than 50°C	VcRoads Std Specs 407.23 (a) (v)	**Responsibility:** IP - Project Engineer/Site Supervisor **Method**: Measurement or sufficient time has lapsed **Record**: This ITP			

3. Testing Requirements

Task/Activity Description	Acceptance Criteria	Reference Documents	Inspection method & Record of conformity	Signature 1	Reports	Photos	Comments
3.1 Compaction **Frequency**:Per Lot (6 shot test)	For layers <50mm, if characteristic density ratio is: 95.0% or greater Accept lot 94.9% to 93.0% Lot may be accepted at reduced rate 92.9% or less Remove and replace asphalt For layers ≥50mm, if characteristic thickness is: 96.0% or greater Accept lot 95.0% to 94.0% Lot may be accepted at reduced rate. 93.9% or less Remove and replace asphalt	Vicroads std sec Table 407.221	**Responsibility:** TP - Fulton Hogan Laboratory Technician Verified by Project Engineer **Method**: Compaction Testing **Record**: Asphalt Field Compaction Report				
3.2 Surface Levels **Frequency**:Each lot as required	Individual departures from design not to exceed ±5mm with a standard deviation of no greater than 8mm (Scale A)	Vicroads std sec Table 407.222	**Responsibility:** SCP - External Surveyor Project Engineer to verify **Method**: Survey **Record**: Signed ITP & Survey Reports				

Final Notes:

Photo and video

Final Inspection:
The signature below verifies that this ITP has been completed in accordance with the Fulton Hogan's Quality system Procedures and verifies lot compliance with specifications.

Project Team signature	-
Photo and video	

Final Inspection:
The signature below verifies that this ITP has been completed in accordance with the Fulton Hogan's Quality system Procedures and verifies lot compliance with specifications.

Project Engineer Signature	-