

Administration and Inspection Activities for Superpave and Stone Mastic Asphalt (SMA) Mixtures

(As Specified in OPSS 1151)

1151.01 SCOPE

This CAIS covers the construction administration and inspection requirements for Superpave and Stone Mastic Asphalt (SMA) mixtures as specified in OPSS 1151, April 2026~~4~~.

1151.02 REFERENCES

This CAIS refers to the following standards, specifications, or publications:

Ontario Provincial Standard Specifications, Construction:

OPSS 313 Hot Mix Asphalt - End Result

Ontario Provincial Standard Specifications, Material:

OPSS 1151 Superpave and Stone Mastic Asphalt (SMA) Mixtures

Construction Administration and Inspection Specifications (CAIS):

CAIS 1001 Aggregates - General

CAIS 1003 Aggregates - Hot Mix Asphalt

CAIS 1101 Performance Graded Asphalt Cement (PGAC)

Ontario Ministry of Transportation Publications:

Field Guide for The Acceptance of Hot Mix Asphalt and Bridge Deck Waterproofing

MTO Forms:

PH-CC-822-OPMC One Point Mix Check

PH-CC-872 Hot Mix Asphalt Mix Designation

1151.03 DEFINITIONS

For the purpose of this CAIS, the definitions shall be as specified in OPSS 1151.

1151.04 DESIGN AND SUBMISSION REQUIREMENTS

1151.04.01 Design Requirements

1151.04.01.01 General

Administrative Activities:

1	-	Check that the requirements of OPSS 1151 clause 1151.04.01.01 are met.	-
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1151.04.01.02 Changes to the Job-Mix Formula and Mix Design

Administrative Activities:

1	-	Receive and Review requests from the Contractor to change the JMF. Determine if the changes are permitted based on the conditions specified in the Contract Documents.	-
	-	Determine if a new mix design is required as specified in OPSS 1151.	-
	-	Notify the Contractor accordingly.	-

1151.04.01.03 Anti-Stripping Treatments

Administrative Activities:

1	-	Check that Anti-Stripping Treatments (AST) as specified in OPSS 1151.	-
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1151.04.02 Submission Requirements

Inspection Activities:

1	-	Check that no HMA is placed until the Contractor is given written conformation that submitted mix design documents and JMF meet the Contract requirements.	100%
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Administrative Activities:

1	M	Receive the asphalt mix design and Review the compliance of the mix design according with OPSS 1151 and amending SSP.	-
2	M	If mix design conforms to the requirements of the Contract Documents, complete and Issue Owner standard form PH-CC-872. Refer to the Field Guide for Acceptance of Hot Mix Asphalt and Bridge Deck Waterproofing for additional details. Record the PH-CC on CMSWBCMS .	-

3	-	Submit the mix design. For non-CMSWBCMS Contracts, submit to the Regional Quality Assurance Section, Contract Services Administrator, and bituminous@ontario.ca .	-
4	-	Check the date on the mix design is within 14 months. Otherwise, receive and Review the one-point mix check on Owner standard form PH-CC-822-OPMC.	-
5	-	Determine material sampling requirements as per clause 1151.04.02.02 of OPSS 1151 and Notify the Contractor.	-
6	-	For Warm Mix Asphalt, Check that the additional information specified in OPSS 1151 is submitted with the mix design.	-

1151.05 MATERIALS

Administrative Activities:

1	-	Performance Graded Asphalt Cement (PGAC) Requirements shall be administered according with CAIS 1101.	-
2	-	Aggregate requirements shall be administered according with CAIS 1003.	-
3	-	Determine if RAP is permitted in the HMA. If RAP is permitted and it is included in the mix design, Check that the RAP meets the requirements of OPSS 1151. RAP stockpiling requirements shall be administered according with CAIS 1001.	-
4	-	Check that process control sampling and testing of the RAP is as specified in the Contract Documents.	-
5	-	Check that silicone oil is as specified in OPSS 1151.	-
6	-	Filler requirements shall be administered according with CAIS 1003.	-
7	-	Check that fibres are as specified in OPSS 1151.	-

1151.07 PRODUCTION

1151.07.01 Anti-Stripping Treatments

1151.07.01.01 Asphalt Cement Anti-Stripping Treatments

Administrative Activities:

1	-	Receive and Review AST-AC documentation as specified in OPSS 1151.	-
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1151.07.01.02 Aggregate Anti-Stripping Treatments

Administrative Activities:

1	-	Receive and Review appropriate Asphalt Cement Anti-Stripping Treatments (AST-AC) and PGAC documentation as specified in OPSS 1151.	-
2	-	Determine if aggregate treated and stored from the previous construction season can still be used based on a written proposal from the Contractor, as specified in OPSS 1151.	-
3	M	Check that AST-AC requirements are met as specified in OPSS 1151.	-

1151.07.02 Preparation of the Mixture

Inspection Activities:

1	-	Check the discharge temperature from the mixing chamber as specified	25%
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WARRANT: Always with OPSS 1151, Material Specification for Superpave and Stone Mastic Asphalt Mixtures.