

Part 1 General

1.01 DESCRIPTION OF WORK

- .1 The Work described herein shall consist of the installation of asphalt patches.

1.02 REFERENCES

- .1 The Manitoba Infrastructure and Transportation Standard Construction Specifications No. 800(I) – Bituminous Pavement and Recycled Bituminous Pavement and No. 920 – Aggregate for Bituminous Pavement in effect on the date of closing.

Part 2 Products

2.01 MATERIALS

- .1 All products shall conform to The Manitoba Infrastructure and Transportation Standard Construction Specifications No. 800(I) – Bituminous Pavement and Recycled Bituminous Pavement and No. 920 – Aggregate for Bituminous Pavement unless otherwise noted in the specifications and drawings.
- .2 Granular sub-base material and granular base course “A” base material shall conform to Section 31 05 16 – Aggregate Materials.

2.02 AGGREGATE FOR BITUMINOUS PAVEMENT

- .1 Source of Supply

The Contractor shall provide the Engineer with at least six days advance notice of;

- his intention to commence the production of aggregates,
- the source of all aggregates to be used on the project including supplementary granular material and V.M.A. additive.

At the request of the Contractor, the Departmental Representative will test aggregate samples obtained from the source of supply. Each sample shall contain not less than 45kg and the Contractor shall assume all costs incurred in obtaining and transporting the samples to the Department's Testing Laboratory.

Test results for gradation and physical properties will be provided but will not constitute acceptance of material in the source of supply.

Prior to the production of aggregates, the source of supply shall be cleared, grubbed and stripped of overburden to an extent and in a manner satisfactory to the Engineer.

- .2 Aggregate Requirements

Aggregates, supplementary material and V.M.A. additive material shall consist of sound, durable particles of crushed rock, gravel, stone, sand and fines, free from organic material.

The crush count is the percentage by weight of the blended aggregate particles retained on a

4.75mm sieve which are not shale or ironstone and have at least one freshly fractured face.

The Los Angeles Abrasion Loss on quarried limestone aggregate will be based on any handpicked portion of the total sample submitted.

The shale content is the percent by weight of the particles retained on a 4.75mm sieve that are shale particles.

The ironstone content is the percent by weight of the particles retained on a 4.75mm sieve that are ironstone particles.

Voids in the Mineral Aggregate (V.M.A.) are spaces between the aggregate particles in a compacted pavement which contain either air or asphalt.

The gradation of the final blended aggregate for bituminous pavement will be based on the field adjusted mix design.

The requirements for each Class will be as follows:

Passing Standard Sieve	Bituminous			
	Class "A"	Class "B"	Class "C"	Class "D"
19mm sieve		100%	100%	
16mm sieve	100%	90 – 100%		
12.5mm sieve	78 – 98%	75 – 95%		100%
9.5mm sieve	70 – 90%	70 – 90%		70 – 90%
4.75mm sieve	55 – 70%	55 – 70%	60 – 85%	55 – 70%
2.0mm sieve	35 – 55%	35 – 55%	35 – 80%	35 – 55%
425um sieve	17 – 32%	17 – 32%	20 – 50%	17 – 32%
180um sieve	4 – 12%	4 – 12%		4 – 12%
75um sieve	3 – 7%	3 – 7%	2 - 9%	2 – 6%
Minimum Crush Count	50%	50%	25%	50%
Maximum Los Angeles Abrasion Loss	35%	35%	35%	35%
Maximum Shale Content: Final Lift Other Lifts	3% 7%	3% 7%	7% 7%	3% 7%

Maximum Ironstone Content: Final Lift	11%	11%	11%	11%
Voids in Mineral Aggregate: Final Lift Other Lifts	14 – 16% 13.5 – 16.5%	14 – 16% 13.5 – 16.5%		14 - 16% 13.5 – 16.5%

2.03 Asphalt Cement

- .1 All asphaltic materials and additives must come from pre-approved suppliers and meet current Manitoba Specifications outlined in the Grading and Surfacing Approved Products List at <http://www.gov.mb.ca/mit/mateng/product.html>.

Part 3 Execution

3.01 PAVING

- .1 All works to be executed in accordance with The Manitoba Infrastructure and Transportation Standard Construction Specifications No. 800(I) – Bituminous Pavement and Recycled Bituminous Pavement and No. 920 – Aggregate for Bituminous Pavement except where noted below.
- .2 Asphalt patching work to be completed on paved asphalt surfaces damaged or removed to allow for installation of proposed underground infrastructure. Asphalt surfaces damaged or removed as a result carelessness or over-excavation by the Contractor will be replaced at the Contractor's expense.
 - .1 The Contractor shall saw cut the asphalt pavement full-depth along the limits designated. The asphalt pavement shall be removed and disposed of off-site at a location determined by the Contractor.
 - .2 The Contractor shall place and compact granular sub-base material and base course material such that the following section is achieved:
 - .1 Minimum of 300 mm thick of crushed sub-base material
 - .2 Minimum of 150 mm thick of base course material
 - .3 Match existing sub-base and base course thicknesses if greater than specified.
 - .4 Placement and compaction of granular sub-base and base course material shall be in accordance with Sections 31 05 16 – Aggregate Materials.
 - .3 The asphalt patches shall be Bituminous Pavement Class A material and match existing pavement thickness.

END OF SECTION