

This specification outlines the requirements for the supply and placement of materials to repair the asphaltic concrete removed in the carrying out of the works.

REFERENCES

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

ASTM International

D977	Standard Specification for Emulsified Asphalt
D6690-12	Standard Specification for Joint and Crack Sealants, Hot Applied, For Concrete and Asphalt Pavements
D2419-14	Standard Test Method for Sand Equivalent values of Soils and Fine Aggregate

PART 1 - GENERAL

1.1 MEASUREMENT FOR PAYMENT

- .1 Measurement for removal and replacement of existing asphalt pavement removed during excavation shall depend on the width of trench in accordance with Section 31 23 33 for the installation of the pipe. The width of pavement removed along the trench for the installation of the pipe shall not exceed 500 mm each side of the specified trench width for main lines 0 to 4 m deep, not exceed 1000 mm each side of the specified trench width for main lines greater than 4 m to 6 m deep and not exceed 1500 mm each side of the specified trench width for main lines greater than 6 m deep. The width of pavement removed along the trench for the installation of pipe in service laterals shall not exceed 300 mm each side of the specified trench width for service lines 0 to 4 m deep, and not exceed 600 mm each side of the specified trench width for service lines greater than 4 to 6 m deep, and not exceed 900 mm each side of the specified trench width for service lines greater than 6 m deep.
- .2 If the Contractor removes or damages pavement or surfaces beyond the limits specified above, such pavement and surfaces shall be replaced or repaired at the expense of the Contractor.
- .3 Asphalt removal designated in the contract documents or as directed by the Engineer For thicknesses up to 100 mm shall be paid by the square metre to the lines established by the Engineer. Thicknesses over 100 mm shall be paid by the square meter unit price prorated on the basis of price per 100 mm.
- .4 Asphalt patching of approved asphalt removed, as designated in the contract documents or as directed by the Engineer, shall be paid by the square metre. Supply, placement, and compaction of granular base shall be considered incidental to the work for Reshaping and Patching of Asphalt and costs shall be included in the m² unit price for Patching of

Asphalt Pavement.

- .5 The minimum width for asphalt removal and replacement adjacent to concrete will be 0.5 meter.
- .6 Recapping of asphalt patching when directed by the Engineer will be paid for by the tonne.
- .7 Temporary asphalt patching, as designed in the contract documents or as directed by the Engineer, shall be paid by the square metre including placing and compaction of granular base. Temporary asphalt shall be 38 mm thick.
- .8 For pothole patching only, cutting shall be paid by the lineal meter.
- .9 Asphalt work under 2.5 meter wide shall be a patch and asphalt work less than 100 Square meters shall be a patch. Asphalt work 100 square meters and greater shall be paid by the tonne.

PART 2 – PRODUCTS

2.1 MATERIALS

- .1 Granular base: material in accordance with Section 32 11 16.
- .2 Asphaltic concrete shall be in accordance with Section 02552 of the Municipal Water, Sewer and Road Specifications as published by the Department of Municipal Affairs and Environment, Newfoundland and Labrador. Recycled asphalt may be used only if it is included in the Schedule of Quantities & Prices and only in areas indicated in the drawings.
- .3 Tack Coat:

Tack coat shall consist of SS-1 (Slow setting) emulsified asphalt diluted with an equal volume of water emulsified asphalt diluted with an equal volume of water prior to the application in accordance with ASTM D977.

PART 3 - EXECUTION

3.1 CONSTRUCTION

- .1 Weather Limitation:
 - .1 Permanent patching shall be carried out only when the temperature of the air is 7°C and rising and when not raining.

- .2 Temporary patching may be specified by the Engineer, when the ambient air temperature is less than 7°C, for one winter use and may be replaced with permanent patching the following summer.
- .2 Time Limitation:
- Asphalt patching after October 15 shall be temporary patching and may be replaced with permanent patching the following summer at the discretion of the Engineer.
- .3 Cutting Out:
- The areas to be patched shall be agreed upon by the Engineer. The Contractor shall cut out the sections marked true and square with a power buster or other means acceptable to the Engineer to expose a fresh vertical face clear of any broken or loose material.
- .4 Application of Asphaltic Material:
- In all areas where new asphalt is to meet existing asphalt a tack coat of asphaltic cement is to be applied to the face of the existing asphalt prior to placing the asphaltic concrete. This tack coat shall be considered incidental to Reshaping and Patching of Asphalt Pavement and all costs associated with it shall be included in the the m² unit price for Patching of Asphalt Pavement.
- .5 Placing Asphalt:
- Before any placing of asphalt, the Contractor shall compact all backfilled materials and place and compact to 95% Modified Proctor Density, of granular base Class 'A' to the thickness of original bedding and to a maximum of 150 mm in accordance with Section 32 11 16. The Contractor shall also ensure that all asphaltic patching shall be equal in thickness to the original pavement but in no case shall be less than 50 mm or more than 100 mm.
- .6 Spreading and Finishing:
- Spreading and finishing shall be carried out as specified. A mechanical spreader shall be used on areas which are deemed by the Engineer to be large enough for such application.
- .7 Rolling:
- Rolling shall be in accordance with Section 02552 of the Municipal Water, Sewer and Road Specifications as published by the Department of Municipal Affairs and

Environment, Newfoundland and Labrador.

.8 Clean Up:

The Contractor shall dispose of all cut out asphaltic concrete or waste materials at a dumping site approved by the Engineer.

3.2 BASIS OF PAYMENT

- .1 All costs associated with the work outlined in this specification shall be deemed to be included in the appropriate unit and lump sum prices quoted as outlined in subsection 1.1 Measurement for Payment and as included in the Schedule of Quantities and Prices.