

PART 1 - GENERAL

1.1 RELATED
REQUIREMENTS

- .1 Section 02 81 01 - Hazardous Materials.
- .2 Section 03 20 00 - Concrete Reinforcing.
- .3 Section 03 30 00 - Cast-in-Place Concrete.
- .4 Section 32 11 23 - Aggregate Base Courses

1.2 REFERENCES

- .1 American Society for Testing and Materials International (ASTM)
 - .1 ASTM D 260-86(2001), Standard Specification for Boiled Linseed Oil.
 - .2 ASTM D 698-00a1, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400ft-lbf/ft³) (600 kN-m/m³).
 - .3 ASTM C309-11, Standard Specification for Liquid Membrane - Performing Compounds for Curing Concrete.
 - .4 ASTM D1751-04(2013), Standard Specification for Preformed Expansion Joint Filler for Concrete Paving and Structural Construction (Non Extruding and Resilient Bituminous Types).
 - .2 Canadian Standards Association (CSA International)
 - .1 CSA-A23.1-04/A23.2-04, Concrete Materials and Methods of Concrete Construction/Methods of Test and Standard Practices for Concrete.
 - .3 Newfoundland and Labrador Department of Municipal Affairs.
 - .1 Municipal Water, Sewer and Roads Master Construction Specifications, latest revision.
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1.3 ACTION AND
INFORMATIONAL
SUBMITTALS

- .1 Submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data: submit WHMIS MSDS in accordance with Section 01 33 - Submittal Procedures and 02 81 01 - Hazardous Materials.
- .3 Inform Departmental Representative of proposed source of materials and provide access for sampling at least 4 weeks prior to commencing work.
- .4 If materials have been tested by accredited testing laboratory approved by Departmental Representative within previous 2 months and have passed tests equal to requirements of this specification, submit test certificates from testing laboratory showing suitability of materials for this project.

PART 2 - PRODUCTS

2.1 SUSTAINABLE
REQUIREMENTS

- .1 Materials and products in accordance with Section 01 35 21 - LEED Requirements.
- .2 Do verification requirements in accordance with Section 01 35 21 - LEED Requirements.

2.2 MATERIALS

- .1 Concrete mixes and materials: in accordance with Section 02528 - Concrete Walks, Curbs and Gutters, Newfoundland and Labrador Municipal Water, Sewer and Roads Master Construction Specification.
 - .2 Reinforcing steel: in accordance with Section 03 20 00 - Concrete Reinforcing.
 - .3 Granular "A" Base Material: material to Section 32 11 23 - Aggregate Base Course.
 - .4 Non-staining mineral type form release agent: chemically active release agents containing compounds that react with free lime to provide water-soluble soap.
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2.2 MATERIALS .5 Boiled linseed oil: to ASTM D 260.
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PART 3 - EXECUTION

3.1 GRANULAR BASE .1 Obtain Departmental Representative's approval
of subgrade before placing granular base.
.2 Place granular base material to lines,
widths, and depths as indicated.
.3 Compact granular base in maximum 150 mm
layers to at least 100% of maximum density to
ASTM D 698.

3.2 CONCRETE .1 Obtain Departmental Representative approval
of granular base and reinforcing steel prior
to placing concrete.
.2 Do concrete work in accordance with Section
02528 - Concrete Walks, Curbs and Gutters,
Newfoundland and Labrador Municipal Water,
Sewer and Roads Master Construction
Specification.
.3 Immediately after floating, give sidewalk
surface uniform broom finish to produce
regular corrugations not exceeding 2 mm deep,
by drawing broom in direction normal to centre
line.
.4 Provide edging as indicated with 10 mm radius
edging tool.
.5 Slip-form pavers equipped with string line
system for line and grade control may be used
if quality of work acceptable to Departmental
Representative can be demonstrated. Hand
finish surfaces when directed by Departmental
Representative.

- 3.3 TOLERANCES .1 Finish surfaces to within 3 mm in 3 m as measured with 3 m straightedge placed on surface.
- 3.4 BACKFILL .1 Allow concrete to cure for 7 days prior to backfilling.
- .2 Backfill to designated elevations with material as directed by Departmental Representative.
- .1 Compact and shape to required contours as indicated.
- 3.5 TESTING .1 Inspection and testing of concrete will be carried out by independent inspection and testing agency designated by Departmental Representative. Costs of these tests will be paid by Contractor in accordance with Section 01 29 83 - Payment Procedures for Testing Laboratory Services and Section 01 45 00 - Quality Control.
- 3.6 CLEANING .1 Proceed in accordance with Section 01 74 11 - Cleaning.
- .2 On completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.