

## PART 1: GENERAL

### 1.1 RELATED SECTIONS

- .1 Section 01 33 00 : Submittal Procedures
- .2 Section 32 11 16.01 : Granular Base and Sub-base

### 1.2 MEASUREMENT AND PAYMENT

- .1 Refer to Section 01 11 50 - Measurement and Payment

### 1.3 COMPLIANCE REQUIREMENTS

- .1 American Association of State Highway and Transportation Officials (AASHTO)
  - .1 AASHTO M180-2011, Corrugated Sheet Steel Beams for Highway Guardrails.
- .2 American Society for Testing and Materials ASTM International)
  - .1 ASTM A 307-12, Specification for Carbon Steel Bolts and Studs, 60 000 PSI Tensile Strength.
- .3 Canadian General Standards Board (CGSB)
  - .1 CAN/CGSB-1.181-99, Ready-Mixed Organic Zinc-Rich Coating.
- .4 Canadian Standards Association (CSA International)
  - .1 CAN/CSA-O80 Series-08(R2012), Wood Preservation.
  - .2 CAN/CSA-G164-M92(R2003), Hot Dip Galvanizing of Irregularly Shaped Articles.
- .5 New Brunswick Department of Transportation and Infrastructure Standard Specifications.

### 1.4 SUBMITTAL GENERAL REQUIREMENTS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
  - .1 Submit manufacturer's instructions, printed product literature and data sheets for geotextiles and include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Samples:

- .1 At least four (4) weeks prior to commencing work, inform Departmental Representative of proposed sources of guide rail and components, and provide access for sampling.

#### 1.5 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements.
- .2 Storage and Handling Requirements:
  - .1 Store materials in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
  - .2 Store and protect geotextiles from direct sunlight and UV rays.
  - .3 Replace defective or damaged materials with new.

### PART 2: PRODUCTS

#### 2.1 MATERIAL

- .1 Class A, Type II, W-Section steel beams conforming to AASHTO M180.
  - .1 Each section of guide rail, in accordance with AASHTO M180, required markings as follows:
    - .1 Name brand of manufacturer;
    - .2 Identification symbols or code for heat;
    - .3 Number and coating lot;
    - .4 AASHTO Spec #;
    - .5 Class and Type.

### PART 3: EXECUTION

#### 3.1 INSTALLATION

- .1 Guide Rail shall be installed in accordance with NBDTI Standard Specifications Standard Drawings 510-1, 510-2, 512-1, 512-2 and 512-3.
- .2 Guide rail sections shall be installed to produce a smooth, continuous rail, paralleling the line and grade of the finished parking lot surface.
- .3 Salvaged guide rail shall not be intermixed or alternated with new guiderail in the same installation.

- .4 Cut surfaces of all wood products shall be treated with an approved preservative, as detailed in the manufacturer's application instructions.

### 3.3 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
  - .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.
- .3 Waste Management: separate waste materials for reuse and/or recycling in accordance with Section 01 74 22 - Construction/Demolition Waste Management and Disposal.
  - .1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.

**END OF SECTION**