

**PART 1 - GENERAL**

1.1 RELATED SECTIONS

- .1 Section 310099 – Earthworks for Minor Works
- .2 Section 321413 – Precast concrete unit pavers
- .3 Section 323700 – Exterior Site Furnishing

1.2 BASIS OF PAYMENT .1

Measurement Procedures:

- .1 Wood walkway. - The supply and installation of a wood walkway includes concrete bases and granular foundation, all excavation and hardware. The contract lump sum price will be full compensation for all labour, materials and equipment to do the work.
- .2 Wood Cladding. - The supply and installation of two wood cladding for the existing ramp and decks of the men and women temporary washrooms includes concrete base and hardware. Payment at the contract lump sum price will be full compensation for all labour, materials and equipment to do the work.
- .3 The wood structure for the composite screens between washrooms is included in the lump sum price bid.

1.3 REFERENCES

- .1 American Society for Testing and Materials (ASTM International)
  - .1 ASTM D 5116-10, Standard Guide For Small-Scale Environmental Chamber Determinations of Organic Emissions From Indoor Materials/Products.
- .2 American Wood Preservers' Association (AWPA)
  - .1 AWPA A2-15, Standard Methods for Analysis of Water-bourn Preservatives and Fire Retardant Formulations.
- .3 Canadian Standards Association (CSA International)
  - .1 CSA B111-1974 (R2003), Wire Nails, Spikes and Staples.
  - .2 CSA O80 Series F-08 (C2012), Wood Preservation.
  - .3 CSA O86-09, Engineering Design in Wood.
- .4 Canadian Standards Association (CSA)
  - .1 CSA O80 Series F-08 (C2012), Wood Preservation.
  - .2 CSA O80.201-97, Standard for Hydrocarbon Solvents for Preservatives. (This Standard covers hydrocarbon solvents for preparing solutions of preservatives.-This is not stand alone specification.)
- .5 Environmental Choice Program (ECP)
  - .1 ECP-76-98, Surface Coatings.
- .6 National Lumber Grades Authority
  - .1 NLGA, Standard grading rules for Canadian lumber, 2012.

1.4 QUALITY ASSURANCE

- .1 Lumber identification: by grade stamp of an agency certified by Canadian Lumber Standards Accreditation Board.

1.5 WASTE MANAGEMENT AND  
DISPOSAL

- .1 Separate and recycle waste materials in accordance with current

book of specifications.

- .2 Remove from site and dispose of packaging materials at appropriate recycling facilities.
- .3 Do not dispose of preservative treated wood through incineration.
- .4 Do not dispose of preservative treated wood with other materials destined for recycling or reuse.
- .5 Dispose of treated wood, end pieces, wood scraps and sawdust at sanitary landfill approved Departmental Representative.
- .6 Unused preservatives and fire retardant materials are to be diverted from landfill through disposal at a special wastes depot.
- .7 Do not dispose of unused preservative material into sewer system, into streams, lakes, onto ground or in other locations where they will pose health or environmental hazard.

**1.6 SUBMITTALS**

- .1 Submit shop drawings for the wood foot path and the ramp skirt in compliance with the requirements stated in the current book of specifications for approval by Departmental Representative.
- .2 Indicate materials, thickness', finishes, joints, methods of construction and attachment or anchorage, erection diagrams, connections, number of anchoring devices, explanatory notes and other information necessary for completion of Work.
- .3 Provide shop drawings for all woodwork.
- .4 Provide data sheets of wood used and treatment products.
- .5 Provide wood supplier's recommendation for the treatment of cut wood.
- .6 Provide technical data and sample for the grip tape and the chemical anchors.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- .1 The structure must be built with treated wood without arsenic according to drawings or equivalent approved. The wood must be processed under pressure using the alkaline copper quaternary (ACQ) to resist weathering.
- .2 Fasteners and connectors, moisture barrier, sealant and field applied preservative: to CAN/CSA-S406.
- .3 In general, the wood used must be soft and dimensioned on 4 sides, with a moisture content equal or inferior to 19%, and must be of good quality, sound, without checking, dead knots, sapwoods, splints, and warping. For visible portions of the wood, no bleaching, marks or stamp that modify the uniformity of the wood.

- .4 Quality : clear no.1, 35% with sound knots according to requirements of the ACNOR 0141 norm.
- .5 Screws and bolts in galvanized steel. The wood posts for the composite barrier must be held in place on the concrete footings by 6mm thick galvanized steel anchors. These anchors must have a base plate that measures 230 x 230 mm and a tube that measures 150mm in height and 95 x 95mm in width. The anchor must be bolted to the concrete footing with 4 nuts and bolts 12mm thick and 300mm high and a chemical anchor compatible with concrete. The chemical anchor must be a hybrid adhesive mortar combining resin, hardener, cement and water that can be used between 0 Celcius and 40 Celcius, and that is styrene free.
- .6 For cut ends, wood treatment must meet the requirements of the supplier.
- .7 Cover each plank of the wood walkway floor, on its entire width and length, with a plastic grip tape 50mm wide, black, resistant to outdoor conditions and cold.
- .8 All required hardware as prescribed on plans. When stainless steel hardware is specified, use stainless steel screws and bolts.

### **PART 3 - EXECUTION**

#### **3.1 INSTALLATION**

- .1 Unless otherwise specified, work must comply with the norm CSA O86.
- .2 Construct preserved wood foundation in accordance with the norm CAN/CSA-S406.
- .3 Place cut ends up where studs cut to length.
- .4 Do not burn treated wood
- .5 Treat all cut pieces with a product that meet the wood suppliers recommendations.
- .6 Install decking in accordance with the norm CSA O86
- .7 Provide minimum of one bearing support for each plank except for cantilevers which shall extend over two supports. Install sloping deck with tongues up. Join butt ends with splints to assure tight square fit.
- .7 Stagger end joints in adjacent planks minimum of 0.5 m. Separate joints in same area by at least two intervening courses. Avoid joints in first fifth of end spans. Minimize joints in middle third of any span.
- .8 Provide a 4mm joint between boards.

3.2 FINISHED SURFACES

- .1 Remove tool marks, bruises, and scratches.

**\*\*\* END OF SECTION \*\*\***