

54.31 TIMBER STRIPDECK REPLACEMENT

54.31.1 GENERAL

The Work consists of the removal and replacement of timber stripdeck and subdeck. The Work may involve only removal and replacement of select sections of the deck or the entire deck.

54.31.2 MATERIALS

The Contractor shall supply all required materials including but not limited to the following:

- 75 mm x 255 mm or 75 mm x 305 mm (3" x 10" or 3" x 12" nominal dimension), hemlock or fir stripdeck planks in various lengths
- 75 mm x 305 mm or 100 mm x 305 mm (3" x 12" or 4" x 12" nominal dimension), creosote treated subdeck planks in lengths as required
- 150 mm and 200 mm ardox nails
- wood preserver, as required.

54.31.3 EQUIPMENT

The Contractor shall supply all equipment necessary to complete the Work.

54.31.4 PROCEDURE

All Work shall be performed during daylight hours only, unless adequate lighting exists which provides visibility of at least 700 metres and prior approval of the Engineer is obtained. No Work shall be performed when the visibility is less than 700 metres.

Traffic control and signing shall be performed in accordance with Specification 55.1, Traffic Accommodation and Temporary Signing.

At the end of each work day and before darkness, the Contractor shall remove all equipment and materials from the bridge deck. Traffic signs and normal two way traffic shall be restored. The use of temporary warning signs will be subject to the approval of the Engineer.

The Contractor shall remove the existing stripdeck, being careful not to damage the subdeck.

The existing stripdeck materials shall become the property of the Contractor and shall be disposed of to the satisfaction of the Engineer. Loose nails and wood scraps shall be cleared from the site. Burning of this material within the right-of-way will not be permitted unless otherwise approved by the Engineer.

Some subdeck material may have to be replaced prior to the installation of the new stripdeck. An inspection of the subdeck shall be coordinated with the Engineer (following the removal of the existing stripdeck) who will determine the extent of subdeck replacement to be performed. The existing subdeck materials removed from the bridge shall become the property of the Contractor and shall be disposed of to the satisfaction of the Engineer. Burning of treated material will not be allowed.

Subdeck is typically connected to timber nailers which run along the steel stringers or by nailing directly into timber

stringers. Any loose subdeck boards shall be renailed with additional ardox nails. Subdeck boards that are replaced shall be connected to the timber nailers with two ardox nails per nailer or connected to the timber stringers with two ardox nails per timber stringer. 150 mm nails are required for 75 mm (3") nominal dimension subdeck and 200 mm nails are required for 100 mm (4") nominal dimension subdeck. Procedures for splicing of the subdeck will be subject to the approval of the Engineer. All cuts of the treated timber shall be treated with an approved wood preservative.

The stripdeck shall be laid heart side down, with tight longitudinal joints. Planks shall be spiked using 150 mm ardox nails at 1.0 m centres (maximum), staggered along the plank, with two spikes 150 mm from the end of each plank. Planking shall be staggered longitudinally with no pieces less than 2.5 m in length. Field cuts of the timber shall be minimized. When field cuts are required, all cut ends shall be field treated with an approved wood preservative.

For gravelled approach roads, the stripdeck shall be bevelled at the ends of the bridge with a smooth transition on and off the bridge.

Any bridge element that is damaged by the Contractor shall be repaired to a condition equal to or better than the preconstruction condition at his expense.

Loose nails and wood scraps shall be cleared from the site.

In some cases, repairs will consist only of tightening loose planks and replacing missing nails.

54.31.5 TIME TO COMPLETE

The removal and replacement of select sections of deck and minor repairs shall be completed within 10 calendar days of the issuance of the Work Order. The removal and replacement of the entire deck shall be completed within 120 days of the issuance of the Work Order.

54.31.6 MEASUREMENT AND PAYMENT

Measurement will be in Board Foot (bd. ft.) based on the nominal dimensions of the materials used. A "Board Foot" is a unit of measure equal to a board one foot square by one inch thick (1" X 12" X 12"). In metric equivalent this would be a board 2.54 cm X 30.48 cm X 30.48 cm or 2 360 cm³.

Payment for the replacement of the entire stripdeck and/or subdeck will be made at the unit price bid per board foot (bd.ft.) for "Replace Timber Deck". This payment will be full compensation for supplying the timber material, removing and disposing of the existing stripdeck and/or subdeck, installing the new stripdeck and/or subdeck, traffic accommodation and signing, and all labour, materials, equipment, tools and incidental necessary to complete the Work.

Payment for the replacement of select sections of stripdeck and/or subdeck will be made at the unit price bid per board foot (bd.ft.) for "Patch Timber Deck". This payment will be full compensation for supplying the timber materials, removing and disposing of the existing sections of stripdeck and/or subdeck, installing the new sections of stripdeck and/or subdeck, traffic accommodation and signing, and all labour, materials and equipment necessary to complete the Work.

The loading, hauling, unloading and disposal of surplus or waste material shall be considered incidental to the Work and no separate or additional payment will be made.

There will be no separate or additional payment for tightening and renailed loose planking which shall be considered incidental to the repair Work. When tightening and renailed is the only Work required on a deck, this Work shall be covered by Specification 53.39, Highway Maintenance Work and will not be paid for separately.

54.31.7 WARRANTY

The warranty period for removal and replacement of the stripdeck or subdeck shall be 1 year.