

SECTION 00570 - TIMBER STRUCTURES

(Follow all instructions and make all edits with "Track Changes" turned on. If there are no instructions [purple text] above a subsection, paragraph, sentence, or bullet, then include it in the project. Delete all purple text before preparing the final document. All other modifications to this Section will require ODOT Technical Resource and State Specifications Engineer approval.)

Comply with Section 00570 of the Standard Specifications modified as follows:

00570.00 Scope - Replace the paragraph that begins "This Work consists of furnishing ..." with the following paragraph:

This Work consists of furnishing and installing timber and glue laminated timber in Bridges and other timber Structures as shown or directed. Timber and lumber is identified as timber in this Section.

(Use the following subsection .10 to list grading requirements. Obtain grading requirements from the Bridge Designer.)

00570.10 Materials - Add the following to the end of this subsection:

Furnish timber and lumber meeting the following grading requirements:

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(Use the following paragraph when preservative treatment is required but is not shown on the plans. Obtain information from the Bridge Designer.)

Preservative treatment of timber is required. The types of treatments that are allowed are:

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(Use the following subsection .11 when ACZA preservative treatment is allowed. Check with Bridge Designer.)

00570.11 Metal Parts - Add the following to the end of this subsection:

Galvanized connectors are allowed on ACZA treated timber only when the timbers are kiln dried to 19 percent after treatment. If ACZA treated timber is not kiln dried, use stainless steel connectors only.

(Use the following lead-in paragraph and subsection .15 when lightweight metal connectors are required. Obtain the capacity requirements from the Bridge Designer.)

Add the following subsection:

00570.15 Lightweight Metal Connectors - Furnish lightweight metal connectors according to 02150.10(e), and with the following minimum capacities:

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00570.42(a) Pile Bents - Replace the paragraph that begins "Drive piles according to ..." with the following paragraph:

Drive piles according to Section 00520. No shimming on tops of piles is allowed.

00570.42(b) Framed Bents - Replace the paragraph that begins "Fasten posts to sills ..." with the following paragraph:

Fasten posts to sills as shown. Remove all earth from contact with all timber so there is free air circulation around them.

00570.43 Stringers - Replace the bullet that begins "Knots near edges ..." with the following bullet:

- Knots near edges are in the top portions of the stringers.

00570.44(a) Planking - Replace the paragraph that begins "Provide planking ..." with the following paragraph:

Furnish planking that is surfaced on four sides (S4S).

00570.44(b) Covering Materials - Replace the bullet that begins "1-inch-thick tongue and ..." with the following bullet:

- 1-inch-thick tongue and groove structural CD exterior grade plywood. Nail the plywood with face grain parallel to stringers using 10d galvanized or zinc coated ring shank nails. Place nails at 6-inch centers along all edges and 12-inch maximum centers intermediate. Fasten expanded metal grillage with a minimum opening of 1/4 inch and a minimum thickness of 1/8 inch to the top of the plywood for the entire Roadway area. Fasten, at a minimum, at 12-inch centers each direction using 8d galvanized common nails. Cover deck with a Level 2, 1/2-inch ACP wearing surface according to Sections 00744 and 00745, as applicable.

00570.46 Trusses - Replace this subsection, except for the subsection number and title, with the following:

Furnish finished trusses showing no irregularities of line. Furnish chords straight and true from end to end in horizontal projection and show a smooth curve through panel points according to the correct Camber. Fit all bearing surfaces accurately. Uneven or rough cuts at the points of bearing are cause for rejection of the piece containing the defect.

00570.90 Payment - Replace the paragraph that begins "Payment will be payment ..." with the following paragraph:

Payment will be payment in full for furnishing and placing all Materials, and for providing all Equipment, labor, and Incidentals necessary to complete the Work as specified.