

MANUAL CHANGE TRANSMITTAL		NO. 12-10
TITLE: Department of Transportation <i>Construction Manual</i>	APPROVED BY: Mark Leja, Chief Division of Construction <i>for [Signature]</i>	DATE ISSUED: December 27, 2012
SUBJECT AREA Table of Contents and various sections of the <i>Construction Manual</i>	ISSUING UNIT Division of Construction	
SUPERSEDES	DISTRIBUTION All Requested Manual Holders	

This manual change transmittal delivers the revisions of Chapter 4, Sections 4-57, 4-59, and 4-91 of the *Construction Manual*. Updated sections may contain updated language, information, corrections, and references resulting from updates to the 2010 *Standard Specifications*, and from policy and procedural changes. Change bars in the margins of the revised sections indicate text that was changed or added.

Please update your manual according to the table below.

Section(s)	Incorporates	Remove Old Page(s)	Insert New/Revised Page(s)
Table of Contents	None	TOC.1 and TOC.2	TOC.1 and TOC.2
Section 4-57, "Wood and Plastic Lumber Structures"	None	4-57.1	4-57.1thru 4-57.2
Section 4-59, "Painting"	None	4-59.1	4-59.1
Section 4-91, "Paint"	None	4-91.1	4-91.1

Section 4-57, "Wood and Plastic Lumber Structures"

- Updates references to align with 2010 *Standard Specifications*.
- Updates section title to align with 2010 *Standard Specifications*.
- Merges all content from Section 4-58 into this section to align with 2010 *Standard Specifications*, so that Section 4-58 can align with Section 58 of the 2010 *Standard Specifications*.

Section 4-59, "Painting"

- Includes web address for applicable Structures manuals.

Section 4-91, "Paint"

- Updates terminology to match that currently used in the *Construction Manual*.

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This manual is being updated to reflect changes from the 2006 to the 2010 *Standard Specifications*. Bracketed section numbers refer to the 2006 *Standard Specifications*.

Section 57 Wood and Plastic Lumber Structures

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4-5701 General

4-5701 General

Section 57, “Wood and Plastic Lumber Structures,” of the *Standard Specifications*, includes specifications for constructing wood and plastic lumber structures in conformance with the plans and specifications.

The work covered in this section also includes treating wood materials to prevent decay from moisture, bacteria, or insects. Piling, poles, posts, and lumber requiring preservative treatment are specified in the *Standard Specifications* in the following sections:

- Section 49, “Piling”
- Section 56, “Signs”
- Section 57, “Wood and Plastic Lumber Structures”
- Section 80, “Fences”
- Section 83, “Railings and Barriers”
- Section 86, “Electrical Systems”

4-5702 Before Work Begins

4-5702 Before Work Begins

Before work begins, do the following:

- Verify that Form CEM-3101, “Notice of Materials to Be Used,” includes lumber materials. Refer to Section 6-202, “Responsibilities and Procedures for Acceptance of Materials” of this manual for additional information.
- Occasionally, lead times to procure hardware and wood materials requiring preservative treatment can be longer than a contractor anticipates. Early in the project, determine when materials will arrive at the job site.
- Upon delivery of treated wood materials, note whether they are identified by marks or inspection tags. Inspection and release of treated wood materials by the Office of Materials Engineering and Testing Services (METS) will ensure that specified preservative treatment meets specifications.
- If the wood or plastic lumber structure requires painting, review Section 4-59, “Painting,” and Section 4-91, “Paint,” of this manual.
- Inspect the material in accordance with Table 6-2.2, “Inspection of Fabricated and Manufactured Materials,” in Section 6-2, “Acceptance of Manufactured Material and Sampling Methods,” of this manual.

4-5703
During the Course
of Work

4-5703 During the Course of Work

During the work, take the following steps:

- To verify that METS has inspected and released the materials to be used, retrieve Form TL-0624, “Inspection Release Tag,” as the materials are delivered to the job site, and match the materials to Form TL-0029, “Report of Inspection of Material.”
- In accordance with Table 6-2.2, “Inspection of Fabricated and Manufactured Materials,” of this manual, visually inspect the lumber materials.
- Ensure the lumber materials and hardware conform to the plans and specifications.
- Ensure that any damage during handling and installation does not reduce the preservative treatment’s effectiveness. No further inspection of the treatment is needed.

4-5704
Measurement and
Payment

4-5704 Measurement and Payment

For the basis of measurement and payment, refer to appropriate sections of the special provisions and *Standard Specifications*.

The payment for preservative treatment is included in the contract prices paid for the various wood materials that are treated.

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Section 59 Painting

4-5901 General

Section 59, “Painting,” of the Standard Specifications includes specifications for painting. For additional information regarding painting steel structures, see Section 155, “Paint,” of the Office of Structure Construction’s *Bridge Construction Records and Procedures* manual.

<http://www.dot.ca.gov/hq/esc/construction/manuals/>

4-5902 Before Work Begins

Review Section 4-91, “Paint,” and Section 6-2, “Acceptance of Manufactured Material and Sampling Methods,” of this manual.

4-5903 During the Course of Work

During the work, take the following steps:

- To verify the Office of Materials Engineering and Testing Services has inspected and released the paint to be used, retrieve Form TL-0624, “Inspection Release Tag,” as the paint is delivered to the site and match the paint to Form TL-0029, “Report of Inspection of Material.”
- Ensure that surfaces have been prepared as the specifications require. If blast cleaning is required for structural steel, ensure the contractor obtains the surface profiles as required by Section 59-10.01D(4), “Field Quality Control,” of the *Standard Specifications*.
- Allow application of paint only to thoroughly dry surfaces and only during periods of favorable weather.
- For structural steel, ensure that each application of paint and each coat of paint are of the proper thickness. Frequently check difficult to reach areas for coverage.

4-5904 Measurement and Payment

For the basis of measurement and payment, refer to the appropriate sections of the special provisions and *Standard Specifications*.

Section 59 Painting

4-5901 General

4-5902 Before Work Begins

4-5903 During the Course of Work

4-5904 Measurement and Payment

This manual is being updated to reflect changes from the 2006 to the 2010 *Standard Specifications*. Bracketed section numbers refer to the 2006 *Standard Specifications*.

Section 91 Paint

4-9101 General

Section 91, “Paint,” of the *Standard Specifications*, covers material requirements for paint. Painting requirements and types of paint to be used in specific applications are included in *Standard Specification* sections that require surfaces to be painted.

4-9102 Before Work Begins

Verify that Form CEM-3101, “Notice of Materials to Be Used,” includes paint. Refer to Section 6-202, “Responsibilities and Procedures for Acceptance of Materials” of this manual for additional information.

4-9103 During the Course of Work

- Ensure the Office of Materials Engineering and Testing Services has inspected the paint.
- Ensure that the paint is packaged and labeled as required in the specifications.
- Inspect the paint in accordance with Section 6-2, “Acceptance of Manufactured Material and Sampling Methods,” in this manual.
- Take samples of the paint in accordance with the tables in Section 6-1, “Sampling Types and Frequencies,” and with Section 6-2 in this manual.

4-9104 Measurement and Payment

Measurement and payment clauses are included in the various *Standard Specification* sections or special provisions that discuss the application of paint.

Section 91 Paint

4-9101 General

4-9102 Before Work Begins

4-9103 During the Course of Work

4-9104 Measurement and Payment