

SECTION 09640 - WOOD FLOORING and WOOD CEILING**PART 1 - GENERAL**

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes repairing, replacing and field-finishing of existing wood flooring and wood ceiling.
- B. Related Sections include the following:
 - 1. Division 9 Section "Painting" for finishing wood flooring and ceiling.
- C. Allowance: Provide 200 sf of wood flooring in base bid to repair wood flooring. See Bid Form for providing additional wood flooring price per sf, installed and finished.
- D. Allowance: Provide 100 sf of wood ceiling in base bid to repair wood ceiling. See Bid Form for providing additional wood ceiling price per sf, installed and finished.

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated.

1.4 QUALITY ASSURANCE

- A. Source Limitations: For field-finished wood flooring and ceiling, obtain each species, grade, and cut of wood from one source with resources to provide materials and products of consistent quality in appearance and physical properties.
- B. Hardwood: Match shape, size, species and grade of existing wood flooring and wood ceiling materials.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver wood planking materials in unopened cartons or bundles.
- B. Protect wood planking from exposure to moisture. Do not deliver wood planking until after concrete, masonry, plaster, ceramic tile, and similar wet work is complete and dry.
- C. Store wood planking materials in a dry, warm, ventilated, weathertight location.
- D. Maintain existing plywood overlay during construction operations. Remove immediately prior to restoring/repairing existing wood flooring.

1.6 PROJECT CONDITIONS

- A. Conditioning period begins not less than seven days before wood planking installation, is continuous through installation, and continues not less than seven days after wood planking installation.
 - 1. Environmental Conditioning: Maintain an ambient temperature between 65 and 75 deg F and relative humidity planned for building occupants in spaces to receive wood planking during the conditioning period.
 - 2. Wood planking Conditioning: Move wood planking into spaces where it will be installed, no later than the beginning of the conditioning period.
 - a. Do not install flooring or ceiling until it adjusts to relative humidity of, and is at same temperature as, space where it is to be installed.
 - b. Open sealed packages to allow wood planking to acclimatize immediately on moving into spaces in which it will be installed.
- B. After conditioning period, maintain relative humidity and ambient temperature planned for building occupants.

1.7 EXTRA MATERIALS

- A. Furnish extra materials described below, before installation begins, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Wood Flooring: Equal to 10 percent of floor area of exposed wood floor.
 - 2. Wood Ceiling: Equal to 5 percent of ceiling area of exposed wood ceiling.

PART 2 - PRODUCTS

2.1 FIELD-FINISHED WOOD FLOORING

- A. Solid-Wood, Plank: Kiln dried to 6 to 9 percent maximum moisture content, tongue and groove and end matched, and with backs channeled (kerfed) for stress relief.
 - 1. Species and Grade: Match existing materials.
 - 2. Cut: Match existing materials.
 - 3. Lengths: Lengths required to match existing or in-fill damaged areas.

2.2 ACCESSORY MATERIALS

- A. Wood Sleepers: As specified in Division 6 Section "Rough Carpentry".
- B. Fasteners: As recommended by manufacturer, but not less than that recommended in NWFA's "Installation Guidelines: Wood Flooring. Wood Ceiling"

PART 3 - EXECUTION**3.1 EXAMINATION**

- A. Examine substrates, areas and conditions, with Installer present, for compliance with requirements for maximum moisture content, installation tolerances, and other conditions affecting performance of wood flooring.
 - 1. Verify that substrates comply with tolerances and other requirements specified in other Sections.
 - 2. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Comply with manufacturer's written installation instructions, but not less than applicable recommendations in NWFA's Installation Guidelines.
- B. Wood Sleepers: Install according to requirements in Division 6 Section "Rough Carpentry."
- C. Provide expansion space at walls and other obstructions and terminations of not less than 1/2 inch.
- D. Solid-Wood Plank: Blind nail to substrate.
- E. Wood Trim: Nail baseboard to wall and nail shoe molding or other trim to baseboard; do not nail to wood ceiling. Nail wood trim to walls, do not nail to wood ceiling.

3.3 FIELD FINISHING

- A. Machine-sand planks to remove offsets, ridges, cups, and sanding-machine marks that would be noticeable after finishing. Vacuum and tack with a clean cloth immediately before applying finish.
- B. Fill and repair wood plank seams and defects.
- C. Apply finish materials in number of coats recommended by finish manufacturer for application indicated, but not less than indicated in Section 09900, "Painting".
- D. Cover wood flooring before finishing.
- E. Do not cover wood flooring after finishing until finish reaches full cure, and not before seven days after applying last finish coat.

3.4 PROTECTION

- A. Protect installed wood flooring during remainder of construction period with covering of heavy kraft paper or other suitable material. Do not use plastic sheet or film that might cause condensation.

1. Do not move heavy and sharp objects directly over kraft-paper-covered wood flooring. Protect flooring with plywood or hardboard panels to prevent damage from storing or moving objects over flooring.

END OF SECTION 09640