

SECTION 06100ROUGH CARPENTRYPART 1 - GENERAL1.1 SECTION INCLUDES

- A. Temporary enclosures.
- B. All rough lumber, including wood nailers, posts, plates, blocking, strapping, and lumber bases for mechanical and electrical equipment.
- C. Rough hardware, such as nails, bolts, screws, clips, as required to install rough carpentry work.
- D. Lumber Preservatives.

1.2 PRODUCTS INSTALLED BUT NOT FURNISHED UNDER THIS SECTION

- A. Section 08110 - Steel Doors and Frames: Flush metal doors and pressed steel frames.
- B. Section 08710 - Finish Hardware: Finish hardware for doors and frames.
- C. Section 15540 - Fire Extinguishers.

1.3 RELATED SECTIONS

- A. Section 01340 - Submittals
- B. Section 03300 - Cast-in-Place Concrete
- C. Section 04200 - Unit Masonry

1.4 REFERENCE

- A. Standard pressure process shall conform to Federal Specification TT-W-573.
- B. Plywood shall conform to American Plywood Association APA Grade trademark and Product Standard PS-1.
- C. ASTM D1625 - Chromated Copper Arsenate.
- D. TPI HIB - Commentary and Recommendations for Handling Installing and Bracing Metal Plate Connected Wood Trusses.
- E. TPI DSB - Recommended Design Specifications for Temporary Bracing of Metal Plate Connected Wood Trusses.

1.5 QUALITY ASSURANCE

- A. All lumber except as otherwise specified herein shall:
 - 1. Be new, dressed 4 sides (S4S), clean, and free from warping and other defects.
 - 2. Conform to U. S. Department of Commerce Simplified Practice Recommendations R-16 for sizes and use Classifications.
 - 3. Have a moisture content not exceeding 15 percent when delivered to the project.
 - 4. National Forest Products Association - "National Design Specification for Wood Construction - 1986 including Design Values for Wood Construction".

- B. Plywood shall conform to American Plywood Association APA Grade Trademark and Product Standard PS-1.

1.6 SUBMITTALS

- A. Submit product data under provision of Section 01340.
- B. The treating plant shall furnish a notarized certificate that all pertinent details of these specifications have been met.
- C. Submit lumber species and grade.
- D. Submit plywood thickness, grade and structural type.

1.7 DELIVERY, STORAGE AND HANDLING

- A. Store all materials in an elevated dry location, protected by waterproof coverings. Do not store within the building until masonry, concrete, and other such wet work has been completed and allowed to dry.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Wolmanized Pressure-Treated Lumber
 - 1. Hickson Corp.
 - 2. Hoover Treated Wood Products
 - 3. Koppers

2.2 LUMBER TREATMENTS

- A. Pressure Preservative Treatments: All dimension lumber, wood blocking and nailers which will be embedded or in contact with concrete and masonry, and all nailers which will be concealed by roofing and flashing, shall be treated with chromated copper arsenate (CCA). The minimum retention shall be 0.4 pounds of preservative per cubic foot of wood.
- B. Brush Preservative Treatment: Brush coat all end cuts after cutting with CCA or equal. Apply in two heavy coats on all surfaces prior to installation of lumber.

2.3 MATERIALS

- A. All dimensional lumber to be used in exterior and bearing walls shall be [Spruce No. 2 or better or as indicated on the Drawings].
- B. Nailers, blocking, equipment bases, and all other lumber of actual 1-1/2 inches or greater thickness - Douglas fir, spruce, pine, number two (2) or better.
- C. Furring and other lumber less than 1-1/2 inches in thickness - No. 2 spruce or Douglas fir.
- D. Plywood Sheathing - Shall be thicknesses, exposure rating and structural type indicated on the Drawings.
- E. Plywood Panels for Electrical Panel Mountings - INT DFPA A-C, 3/4 inch thick.
- F. MDO plywood base for exterior mounted electrical equipment.
- G. Interior Plywood Finish - APA ACX in thickness indicated on the Drawings.

2.4 ROUGH HARDWARE

- A. Joist Hangers, truss anchors, framing anchors, nail plates and other fasteners as indicated on Drawings.
- B. Expansion anchor and anchor bolts shall be as shown on the Drawings and as specified in Section 05500. For other non-specified conditions the following minimums shall apply:
 - 1. Nailers and blocking in excess of 7/8 inch thick - 3/8 inch diameter galvanized steel anchor bolts or expansion bolts, as applicable.
 - 2. Furring, strapping and blocking 7/8 inch thick or less - 5/16 inch diameter galvanized steel anchor bolts or expansion bolts.
 - 3. Secure other non-specified lumber with galvanized steel fasteners, of a type most suitable for the application.
 - 4. Also see the nailing schedule.

PART 3 - EXECUTION

3.1 TEMPORARY BRACING

- A. Provide and maintain, until such time as permanently built into the structure, all temporary bracing for walls, door frames, sills, and other work requiring bracing and which is not specified as being provided under other SECTIONS of the specifications.

3.2 PROTECTION

- A. Do such work as is necessary to cover and protect all finishes and other work from damage during construction.

3.3 NAILERS AND BLOCKING

- A. Fasten nailers and blocking to concrete and masonry with specified bolts, as shown on Drawings. Space bolts not over 32 inches on centers. Stagger lines of bolts on nailers wider than nominal 3-1/2 inch width. Use not less than two (2) bolts per piece of nailer length. Counterbore nailers so that nut and ends of bolts are recessed below top surface. Install wood shims behind nailers and blocking against masonry, as required, to ensure completely true surface.

3.4 ERECTION OF DOOR FRAMES

- A. Erect all door frames, furnished under Sections 08110 and 08220, in accordance with the final shop drawings and frame schedule.
- B. Provide rigid temporary bracing for door frames, as required to ensure maintenance of positioning, and remove only after frames have been permanently anchored.

3.5 HANGING AND FITTING OF DOORS

- A. Receive, store, and be responsible for hardware as furnished under Section 08710, Finish Hardware.

- B. Fit all hinged doors to their respective openings.
- C. Fit all hardware accurately, from templates supplied with hardware, apply securely, and adjust carefully.
- D. Prior to Substantial Completion of the Contract, and before building is occupied, inspect entire building with the Engineer and see that each piece of finish hardware is undamaged and in perfect order and that the proper key for each lock is identified.

3.6 INSTALLATION OF MISCELLANEOUS SPECIALTIES

- A. Receive all such items, and install in accordance with the instructions of the various manufacturers, using installation accessories furnished with the specific item.

END OF SECTION