

**SECTION 06100  
ROUGH CARPENTRY**

**PART 1 - GENERAL**

**1.01 SCOPE**

- A. The work specified in this section includes furnishing all labor, materials, equipment, and incidentals necessary and install all items of carpentry work complete as shown on the Drawings and as specified herein including nailers, grounds, and cants.
- B. The following list of work items is intended only as a guide to that required, the full scope being determined by the actual job conditions:
  - 1. Rough carpentry and framing, as indicated or required, including grounds, blocking, rough frames, nailing strips and strapping.
  - 2. Rough hardware, anchors and bolts, not specifically included elsewhere.
  - 3. Temporary closures.
  - 4. Installation of doors and frames.

**1.02 JOB CONDITIONS**

- A. Deliver, handle and store lumber and plywood to prevent damage. Stack lumber off the ground in a manner to ensure ventilation and protection from the weather.

**1.03 QUALITY ASSURANCE**

- A. Reference Standards: Comply with all Federal and State laws or ordinances, as well as all applicable codes, standards, regulations and/or regulatory agency requirements including the partial listing below:
  - 1. ASTM A 153-82(87) - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 1982 (Reapproved 1987).
  - 2. AWPA C20-88 - Structural Lumber-Fire-Retardant Treatment by Pressure Processes; American Wood-Preservers' Association; 1988.
  - 3. AWPA C27-88 - Plywood-Fire Retardant Treatment by Pressure Processes; American Wood Preservers' Association;
  - 4. AWPA M4-84 - Standard for the Care of Preservative Treated Wood Products; American Wood-Preservers' Association; 1984.
  - 5. AWPB LP-2-88 - American Wood Preservers Bureau Quality Control and Inspection Procedures for Softwood Lumber, Timber and Plywood Pressure Treated with Waterborne Preservatives for Above Ground Use; 1988.
  - 6. National Design Specification for Wood Construction; National Forest Products Association (NFPA); 1986 (1990 Supplement).
  - 7. NBS PS 20-70(86) -- American Softwood Lumber Standard; U.S. Department of Commerce, National Bureau of Standards; 1970 (amended 1986).

8. Grade and Treatment Markings shall appear on lumber with seal and stamp of the inspection agency or bureau having jurisdiction.

#### **1.04 PRODUCT HANDLING**

- A. Delivery and Storage: Keep materials under cover and dry. Protect against exposure to weather and contact with damp or wet surfaces. Stack lumber as well as plywood and other panels; provide for air circulation within and around stacks and under temporary coverings including polyethylene and similar materials.

### **PART 2 - PRODUCTS**

#### **2.01 MATERIALS**

- A. All lumber shall be of sound stock, delivered dry, and shall be fully protected at all times from injury and dampness. Split, broken, or otherwise damaged pieces will not be allowed in the work.
- B. Lumber for Blocking, Grounds and Nailers shall be 545, either No. 2 Southern Pine, or standard grade Douglas fir, with moisture content of not more than 19%.
- C. Wood members that will contact masonry or concrete shall be pressure treated with chromated copper arsenate or fluorochrome arsenate phenol. Minimum net retention of solid preservative shall be 0.35 lb per cu ft. All other permanent wood in place shall be pressure treated with any of the following: Celcure, Wolman Salts, Copperized Chromated Zinc Arsenate or Pentachlorophenol dissolved in a volatile mineral spirits solvent and bear an approved A4P1-LP-2 or LP-3 quality mark.
- D. All treatment shall be performed in accordance with the requirements of the Standard Specifications of the American Wood Preservers Association for treating wood. Apply a heavy coat of the same preservative used in treating to all surfaces cut after treatment.
- E. Nails and spikes, where sizes are not indicated or specified, shall be of suitable size and number to securely fasten and hold members in place.
- F. Plywood for project sign shall be A-A EXT-APA grade and 1-inch thick. Posts shall be same as for nailers specified in subparagraph B above.
- G. All interior plywood to be fire retardant treated plywood.
- H. All plywood shall be pressure-treated in accordance with American Wood Preservers Association Standard AWWA C27, and each piece shall bear an Underwriters Laboratories, Inc. label. Plywood shall be APA RATED SHEATHING EXP 1 or better, marked PS 1. After treatment, plywood shall be dried to an average moisture content of 15 percent (13).

### **PART 3 - EXECUTION**

#### **3.01 INSTALLATION**

- A. All carpentry shall be accurately cut, fitted, and installed as detailed on the Drawings.
- B. Anchors shall be installed, where indicated or required, to anchor carpentry or other items securely to masonry or concrete.

- C. Forms for structural concrete work shall be as specified in Section 03100. Provide all other miscellaneous wood form work as may be required for the completion of the work.
- D. Temporary wood doors and cloth or transparent plastic covered frames shall be provided for exterior wall openings during winter construction.
- E. Provide wood members in lengths as long as practicable.
- F. For bolted work bore holes of same diameter as bolts and drive bolts into place with snug fit with washers between bolt head and wood surface. Make tight at time of installation bolts and lag screws and retighten just before being enclosed by other work or at completion of work. Length of bolts shall be length to suit the condition. Embed bolts in concrete and solid masonry where possible and use expansion shields in drilled holes where not possible.
- G. Use number and size of nails to achieve rigid connections and prevent splitting. Bore holes at least one drill size smaller than nails to prevent splitting if necessary.
- H. Anchor nailers to adjacent construction with bolts 6 inches from ends and at intervals not more than 48 inches o.c. between.
- I. Install project sign where directed by the Engineer. Sign shall remain in position for the duration of construction.
- J. Install, maintain and remove all staging for all trades required to reach all work.
- K. At completion remove all excess materials and all resultant debris from the operations of work of this section. Leave work in neat, clean condition satisfactory for receipt of other related items of work, which are to be installed under other sections.
- L. No excess materials or debris shall be burned on site or within the City limits of Atlanta.
- M. Discard units of material with defects, which might impair quality of work, and units which are too small to use in fabricating work with minimum joints or optimum joint arrangement.

END OF SECTION 06100

