

## **DIVISION 6 – WOOD AND PLASTICS**

### **SECTION 06100**

#### **ROUGH CARPENTRY**

##### **PART 1: GENERAL**

###### **1.01 RELATED DOCUMENTS**

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

###### **1.02 SECTION INCLUDES**

- A. Applicable Wall and roof framing, wall and roof sheathing, preservative treatment, sill gaskets and flashings (as applicable).
- B. Roof curbs and cants; blocking in wall and roof openings; wood furring and grounds; electrical panel and Telephone back boards, concealed wood blocking.
- C. Backing for toilet and bath accessories, chair rails, bulletin boards, projection screen mounting brackets, stair handrails, chalkboards, plumbing fixtures, toilet accessories, plaques, telephone backboard, and all other items requiring nailing or mounting backing not listed in these specifications.
- D. Any other work requiring concealed framing carpentry to support or provide a base for finish material.

###### **1.03 SUBMITTALS**

- A. Shop Drawings: Indicate framing system, loads and cambers, bearing details, framed openings and other details as required.

###### **1.04 QUALITY ASSURANCE**

- A. Perform Work in accordance with the following agencies:
  - 1. Lumber Grading Agency: Certified by ALSC.
  - 2. Plywood Grading Agency: Certified by APA.

##### **PART 2: PRODUCTS**

###### **2.01 LUMBER, GENERAL**

- A. Lumber Standards: Furnish lumber manufactured to comply with PS 20 "American Softwood Lumber Standard" and with applicable grading rules of inspection agencies certified by American Lumber Standards Committee's (ALSC) Board of Review
- B. Inspection Agencies: Inspection agencies and the abbreviations used to reference them with lumber grades and species include the following:
  - 1. SPIB - Southern Pine Inspection Bureau.
- C. Grade Stamps: Provide lumber with each piece factory-marked with grade stamp of inspection agency evidencing compliance with grading rule requirements and identifying grading agency, grade, species, moisture content at time of surfacing, and mill.

- D. Nominal sizes are indicated, except as shown by detail dimensions. Provide actual sizes as required by PS 20, for moisture content specified for each use.
  - 1. Provide dressed lumber, S4S, unless otherwise indicated.
  - 2. Provide seasoned lumber with 19 percent maximum moisture content at time of dressing and shipment for sizes 2 inches or less in nominal thickness, unless otherwise indicated.

## 2.02 DIMENSION LUMBER

- A. For light additional framing necessary beyond the metal stud framing provide "Stud," "No. 3", or "Standard" grade lumber for stud framing (2 to 4 inches thick, 2 to 4 inches wide, 10 feet and shorter) and "Stud" or "No. 3" grade for other light framing ( 2 to 4 inches thick, 2 to 6 inches wide), any species.

## 2.03 SHEATHING AND UNDERLAYMENT LOCATIONS

- A. Telephone and Communications Backboards: New plywood painted to meet requirements of telephone company.
- B. Electrical Lighting Transformers Backboards: New fire retardant plywood painted to meet requirements of the manufacturer of the electrical lighting fixture.
- C. Wall Sheathing Behind Wall Siding: Provide solid plywood sheathing behind all fiber cement board wall and ceiling material. Use minimum ½ inch thick treated plywood sheathing behind fiber cement wall or ceiling material or thickness recommended by manufacturer.

## 2.04 ACCESSORIES

- A. Fasteners: Galvanized steel for exterior, high humidity, and treated wood locations, plain finish elsewhere.
- B. Die Stamped Connectors: Thickness as required in galvanized steel.
- C. Structural Framing Connectors/ Joist Hangers: Galvanized steel, sized to suit framing conditions.
- D. Anchors: Toggle bolt type for anchorage to hollow masonry. Expansion shield and lag bolt type for anchorage to solid masonry or concrete. Bolt or ballistic fastener for anchorages to steel.
- E. Sill Gasket on Top of Foundation Wall: Plate width, closed cell foam.
- F. Sill Flashing : Polyethylene sheet or Galvanized steel as required.
- G. Subfloor Glue: APA AFG-01, water base, waterproof.
- H. Building Paper: No. 15 asphalt felt.
- I. Roofing Paper: Ice and Water Shield.
- J. Termite Shield: Galvanized sheet steel.

## 2.05 WOOD TREATMENT

- A. Wood Preservative: AWP Treatment C1 using water borne preservative with 0.25 percent retainage.
- B. Wood Preservative: Clear type.

- C. Shop preservative treat wood materials indicated on Drawings, in accordance with manufacturer's instructions.
- D. Do not use oil-based preservatives under roofing felts.
- E. Refer to APA Technical Bulletin Number TB-200 for information cautioning use of fire retardant treatment of materials and potential degradation of those materials in certain environments.

### PART 3 EXECUTION

#### 3.01 FRAMING (For wood framing necessary beyond metal stud framing)

- A. Erect wood framing members in accordance with applicable code with a minimum compliance to N.F.P.A. "Manual for Wood Frame Construction", unless otherwise indicated. Place members level and plumb. Place horizontal members crown side up.
- B. Place full width continuous termite shield and sill flashing on foundations.
- C. Place sill gasket directly on sill flashing.
- D. (If Applicable) Frame double joist headers at floor and ceiling openings. Frame rigidly into joists. Frame double joists under wall studding.
- E. (If Applicable) Bridge joists in excess of 8 feet span at mid-span members. Fit solid blocking at ends of members.
- F. (If Applicable) Curb all roof openings except where curbs are provided. Construct curb members of single pieces per side.
- G. Anchor and nail to comply with the following:
  - 1. National Evaluation Report No. NER-272 for pneumatic or mechanical drive staples, P-nails, and allied fasteners.
  - 2. Published requirements of manufacturer of metal framing anchors.
  - 3. "Table 1705.1 - Fastening Schedule," of the Standard Building Code.
- H. Framing headers above all doors, windows and openings shall be minimum double 2 x 10 header for all single door openings up to 36 inch doors. For single and double swing door openings over 36 inches use double 2 x 12 header.

#### 3.02 STUD FRAMING (If Applicable for framing beyond what is necessary in the metal stud wall framing)

- A. General: If wood studs are used arrange studs so that wide face of stud is perpendicular to direction of wall or partition and narrow face is parallel. Install single bottom plate and double top plates using 2-inch thick members whose widths equal that of studs; except single top plate may be used for non-load-bearing partitions. Nail or anchor plates to supporting construction.
  - 1. For interior partitions and wall install 2-inch by 4, 6 or 8 inch wood studs spaced 16 inches o.c.
  - 2. Install continuous horizontal blocking row at mid-height of single-story partitions over 8 feet high using 2-inch thick members of same width as wall or partitions.

#### 3.03 SHEATHING

- A. (If Applicable) Install roof sheathing to simple span. Comply with applicable recommendations.
- B. Place building paper between underlayment and subflooring (if applicable).

- C. Secure wall sheathing with ends staggered, over firm bearing.
- D. Use sheathing clips between sheets between roof framing members when used.
- E. Install telephone and electrical panel back boards with plywood sheathing material where required. Size the back board by 12 inches beyond size of electrical panel.
- F. Install plywood sheathing material where toilet and bath accessories are to be mounted or any other mounted devices such as hand rails, equipment and heavy fixtures.
- G. Install gypsum sheathing to comply with manufacturer's instructions, GA-253 as required.

3.04 SITE APPLIED WOOD TREATMENT

- A. Apply preservative treatment in accordance with manufacturer's instructions.
- B. Treat site-sawn cuts. Brush apply two coats of preservative treatment on untreated wood in contact with cementitious materials, roofing and related metal flashings and in areas as required.
- C. Allow preservative to cure prior to erecting members.

END OF SECTION - 06100