

**SECTION 06 10 00  
ROUGH CARPENTRY**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Sheathing.
- B. Underlayment.
- C. Roofing nailers.
- D. Preservative treated wood materials.
- E. Communications and electrical room mounting boards.
- F. Concealed wood blocking, nailers, and supports.
- G. Miscellaneous wood nailers, furring, and grounds.

**1.02 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide technical data on preservative treated wood.

**1.03 DELIVERY, STORAGE, AND HANDLING**

- A. General: Cover wood products to protect against moisture. Support stacked products to prevent deformation and to allow air circulation.

**1.04 WARRANTY**

- A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.
- B. Provide underlayment manufacturers standard lifetime warranty.

**PART 2 PRODUCTS**

**2.01 GENERAL REQUIREMENTS**

- A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies.
  - 1. If no species is specified, provide any species graded by the agency specified; if no grading agency is specified, provide lumber graded by any grading agency meeting the specified requirements.
  - 2. Grading Agency: Any grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee ([www.alsc.org](http://www.alsc.org)) and who provides grading service for the species and grade specified; provide lumber stamped with grade mark unless otherwise indicated.

**2.02 DIMENSION LUMBER FOR CONCEALED APPLICATIONS**

- A. Sizes: Nominal sizes as indicated on drawings, S4S.
- B. Moisture Content: S-dry or MC19.
- C. Miscellaneous Framing, Blocking, Nailers, Grounds, and Furring:
  - 1. Lumber: S4S, No. 2 or Standard Grade.
  - 2. Boards: Standard or No. 3.

**2.03 CONSTRUCTION PANELS**

- A. Underlayment, For Resilient and Epoxy Flooring over existing wood floor structure and sheathing: Ultra Ply XL, Premium Plywood Underlayment, with marine- grade "Breathe Free" glue, whole piece face, select hardwood 5- ply, veneer core construction. 1/4 inch thick, 4'x8' sheets.
- B. Wall Sheathing: Oriented strand board structural wood panel; PS 2.
  - 1. Bond Classification: Exterior.
  - 2. Size: 4 feet wide by 8 feet long.
  - 3. Thickness: 5/8 inch.

4. Edge Profile: Square edge.
- C. Communications and Electrical Room Mounting Boards: PS 1 A-D plywood, or medium density fiberboard; 3/4 inch thick; flame spread index of 25 or less, smoke developed index of 450 or less, when tested in accordance with ASTM E84.

#### **2.04 ACCESSORIES**

- A. Fasteners and Anchors:
  1. Metal and Finish: Hot-dipped galvanized steel per ASTM A 153/A 153M for high humidity and preservative-treated wood locations, unfinished steel elsewhere.
- B. Subfloor Glue: Waterproof, water base, air cure type, cartridge dispensed.
- C. Building Paper: Water resistant Kraft paper.

#### **2.05 FACTORY WOOD TREATMENT**

- A. Treated Lumber and Plywood: Comply with requirements of AWPA U1 - Use Category System for wood treatments determined by use categories, expected service conditions, and specific applications.
  1. Preservative-Treated Wood: Provide lumber and plywood marked or stamped by an ALSC-accredited testing agency, certifying level and type of treatment in accordance with AWPA standards.
- B. Preservative Treatment:
  1. Manufacturers:
    - a. Arch Wood Protection, Inc: [www.wolmanizedwood.com](http://www.wolmanizedwood.com).
    - b. Viance, LLC: [www.treatedwood.com](http://www.treatedwood.com).
    - c. Osmose, Inc: [www.osmose.com](http://www.osmose.com).
    - d. Substitutions: See Section 01 60 00 - Product Requirements.
  2. Preservative Pressure Treatment of Lumber Above Grade: AWPA U1, Use Category UC3B, Commodity Specification A using waterborne preservative to 0.25 lb/cu ft retention.
    - a. Kiln dry lumber after treatment to maximum moisture content of 19 percent.
    - b. Treat lumber exposed to weather.
    - c. Treat lumber in contact with roofing, flashing, or waterproofing.
    - d. Treat lumber in contact with masonry or concrete.
    - e. Treat lumber in other locations as indicated.

### **PART 3 EXECUTION**

#### **3.01 PREPARATION**

- A. Coordinate installation of rough carpentry members specified in other sections.

#### **3.02 INSTALLATION - GENERAL**

- A. Select material sizes to minimize waste.
- B. Reuse scrap to the greatest extent possible; clearly separate scrap for use on site as accessory components, including: shims, bracing, and blocking.
- C. Where treated wood is used on interior, provide temporary ventilation during and immediately after installation sufficient to remove indoor air contaminants.

#### **3.03 BLOCKING, NAILERS, AND SUPPORTS**

- A. Provide framing and blocking members as indicated or as required to support finishes, fixtures, specialty items, and trim.

#### **3.04 ROOF-RELATED CARPENTRY**

- A. Coordinate installation of roofing carpentry with deck construction, framing of roof openings, and roofing assembly installation.
- B. Provide wood curb at all roof openings except where prefabricated curbs are specified and where specifically indicated otherwise. Form corners by alternating lapping side members.

### **3.05 INSTALLATION OF CONSTRUCTION PANELS**

- A. Underlayment: Secure to subflooring with staples.
  - 1. At locations where resilient flooring will be installed, fill and sand splits, gaps, and rough areas.
  - 2. Place building paper between floor underlayment and subflooring.
- B. Wall Sheathing: Secure with long dimension perpendicular to wall studs, with ends over firm bearing and staggered, using screws.
- C. Communications and Electrical Room Mounting Boards: Secure with screws to studs with edges over firm bearing; space fasteners at maximum 24 inches on center on all edges and into studs in field of board.
  - 1. Where boards are indicated as full floor-to-ceiling height, install with long edge of board parallel to studs.
  - 2. Install adjacent boards without gaps.
  - 3. Size and Location: As indicated on drawings.

### **3.06 CLEANING**

- A. Waste Disposal:
  - 1. Comply with applicable regulations.
  - 2. Do not burn scrap on project site.
  - 3. Do not burn scraps that have been pressure treated.
  - 4. Do not send materials treated with pentachlorophenol, CCA, or ACA to co-generation facilities or "waste-to-energy" facilities.
- B. Do not leave any wood, shavings, sawdust, etc. on the ground or buried in fill.
- C. Prevent sawdust and wood shavings from entering the storm drainage system.

**END OF SECTION**

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**SECTION 06 41 00**  
**ARCHITECTURAL WOOD CASEWORK**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Specially fabricated cabinet units. Modular casework meeting or exceeding specified criteria may at Contractors option be substituted in lieu of specially fabricated cabinet units.
- B. Countertops.
- C. Cabinet hardware.

**1.02 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories.
  - 1. Provide the information required by AWI/AWMAC/WI Architectural Woodwork Standards, Appendix A605- A607.

**1.03 QUALITY ASSURANCE**

- A. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of documented experience.

**1.04 DELIVERY, STORAGE, AND HANDLING**

- A. Protect units from moisture damage in compliance with in accordance with AWI//AWMAC/WI Architectural Woodwork Standards Section 1700, Installation of woodwork, for Custom Grade..

**1.05 FIELD CONDITIONS**

- A. During and after installation of custom cabinets, maintain temperature and humidity conditions in building spaces at same levels planned for occupancy.

**PART 2 PRODUCTS**

**2.01 MANUFACTURERS**

- A. Approved manufactured modular casework meeting or exceeding specified criteria may at Contractors option be substituted in lieu of specially fabricated cabinet units. If modular casework is to be substituted, it must be submitted and approved as a substitution prior to bidding. The following are pre-approved:
  - 1. Precision Millwork Co.
  - 2. LSI Corp.
  - 3. The Millwork Shoppe.
  - 4. PR Bean Co.
  - 5. TMI.
- B. Substitutions: See Section 01 60 00 - Product Requirements.

**2.02 CABINETS**

- A. Quality Grade: Unless otherwise indicated provide products of quality specified by AWI//AWMAC/WI Architectural Woodwork Standards Section 400, Architectural Cabinets, for Custom Grade.

**2.03 LAMINATE MATERIALS**

- A. Manufacturers:
  - 1. Formica Corporation: [www.formica.com](http://www.formica.com).
  - 2. Panolam Industries International, Inc: [www.nevamar.com](http://www.nevamar.com).
  - 3. Wilsonart International, Inc: [www.wilsonart.com](http://www.wilsonart.com).
  - 4. Substitutions: See Section 01 60 00 - Product Requirements.

- B. High Pressure Decorative Laminate (HPDL): NEMA LD 3, types as recommended for specific applications.
- C. Provide specific types as follows:
  1. Horizontal Surfaces: HGS, 0.048 inch nominal thickness, colors as scheduled, finish as scheduled. See Finish Schedule on Drawings
  2. Vertical Surfaces: VGS, 0.028 inch nominal thickness, colors as scheduled, finish as scheduled. See Finish Schedule on Drawings
  3. Cabinet Liner: CLS, 0.020 inch nominal thickness, colors as scheduled, finish as scheduled. See Finish Schedule on Drawings
  4. Backer Sheet: Paper backing required on ALL concealed backside of panels faced with high pressure decorative laminate.

#### **2.04 PLASTIC LAMINATE COUNTERTOPS**

- A. Plastic Laminate Countertops: Medium density fiberboard substrate covered with HPDL, conventionally fabricated and self-edge banded. Provide laminate backer on all concealed backsides of panels faced with high pressure decorative laminate.
- B. Plastic Laminate Counter Top Support Brackets: Where countertops are unsupported by cabinets or walls, for a clear span of over 36 inches, install support brackets at 36 inches on center.
  1. Product: Lyman Associates Inc, Pre- finished Counter Top Supports; [www.lymanassociates.com/topsupport.htm](http://www.lymanassociates.com/topsupport.htm).
    - a. Finish: High impact powdercoat, color; Black.

#### **2.05 ACCESSORIES**

- A. Adhesive: Type recommended by AWI/AWMAC to suit application.
- B. Fasteners: Size and type to suit application.
- C. Concealed Joint Fasteners: Threaded steel.
- D. Grommets: Standard plastic or rubber grommets for cut-outs, in color to contrast with adjacent surface.

#### **2.06 HARDWARE**

- A. Hardware: BHMA A156.9, types as indicated for quality grade specified.
- B. Adjustable Shelf Supports: Standard side-mounted system using recessed metal shelf standards and coordinated shelf rests, satin chrome finish, for nominal 1 inch spacing adjustments. BHMA No. B04071 standards with BHMA No. B04081 closed shelf rests. Knappe and Vogt standards and clips are acceptable as well.
- C. Drawer and Door Pulls: "U" shaped wire pull, steel with satin finish, 4 inch centers.
- D. Cabinet and Drawer Locks: Keyed lock with strike plate, two keys per lock, master keyed, steel with satin finish. Provide one lockset and strike plate for each cabinet door and drawer. Mortise all strike plates so that they are flush with the surface of the cabinet. Key all of the cabinets in a given room the same. Key each room differently. Provide six master keys capable of unlocking any of the locks provided in any room. Locks must be capable of locking upward, downward, in the three o'clock position and in the nine o'clock position depending on actual conditions.
  1. Locks shall be National, Timberline or approved equal.
  2. Keying that are 5 pin tumbler cores.
- E. Drawer Slides:
  1. Type: Standard extension. BHMA No. B05052
  2. Static Load Capacity: Commercial grade (75#) at all drawers except use extra heavy duty (100#) at file drawers under 24 inches wide. Use extra heavy duty 150 # at file drawers 24 inches to 30 inches wide. Use extra heavy duty 200 # for drawers 30 inches and wider.
  3. Mounting: Side mounted.
  4. Stops: Integral type.

- F. Hinges: European style concealed self-closing type, 110 degree opening, BHMA No. B01602, steel with satin finish.
- G. Coat and Bag Hooks: Satin chrome steel or satin nickel.
  - 1. One double prong coat hook and one single prong bag hook in each cubby in classrooms.
  - 2. Single prong bag hooks as shown on drawings in Buddy Pack Room No. 502.

## **2.07 PLASTIC LAMINATE SHELVING SUPPORTS**

- A. Adjustable Shelf Supports: Standard back-mounted system using surface mounted metal shelf standards and coordinated cantilevered shelf brackets, satin chrome finish, for nominal 1 inch spacing adjustments.
  - 1. Brackets: 16 gauge minimum double flange steel brackets for 8 inch to 12 inch deep shelves. 14 gauge minimum double flange steel brackets for 14 inch to 24 inch deep shelves.
  - 2. Standards: 16 gauge minimum double slot steel.
  - 3. Shelf Rests: Manufacturers standard. Use at any shelves in excess of 4 feet in width to anchor shelves to standards as recommended in manufacturers installation instructions.

## **2.08 FABRICATION**

- A. Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.
- B. Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single length.
- C. Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scribing and site cutting.
- D. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arises. Locate counter butt joints minimum 2 feet from sink cut-outs.
  - 1. Apply laminate backing sheet to reverse side of plastic laminate finished surfaces.
  - 2. Cap exposed plastic laminate finish edges with material of same finish and pattern.
- E. Mechanically fasten back splash to countertops as recommended by laminate manufacturer at 16 inches on center.
- F. Provide cutouts for plumbing fixtures, outlet boxes, and similar items. Verify locations of cutouts from on-site dimensions. Seal cut edges.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify adequacy of backing and support framing.
- B. Verify location and sizes of utility rough-in associated with work of this section.

### **3.02 INSTALLATION**

- A. General: Install work in accordance with AWI//AWMAC/WI Architectural Woodwork Standards Section 400, Architectural Cabinets, for Custom Grade.
- B. Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level.
- C. Use fixture attachments in concealed locations for wall mounted components.
- D. Use concealed joint fasteners to align and secure adjoining cabinet units and countertops.
- E. Carefully scribe casework abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim for this purpose.
- F. Secure cabinets to floor using appropriate angles and anchorages.

### **3.03 ADJUSTING**

- A. Adjust installed work.
- B. Adjust moving or operating parts to function smoothly and correctly.

**3.04 CLEANING**

A. Clean casework, counters, shelves, hardware, fittings, and fixtures.

**3.05 SCHEDULES**

A. See Drawings.

**END OF SECTION**