

**Part 1 General**

**1.1 SECTION INCLUDES**

- .1 Blocking in wall openings.
- .2 Wood furring and grounds.
- .3 Concealed wood blocking for support of toilet and bath accessories, wall cabinets, wood trim and all items and equipment deriving support from the walls.
- .4 Telephone and electrical panel back boards.
- .5 Preservative treatment of wood.

**1.2 RELATED SECTIONS**

- .1 Section 09 21 16 - Gypsum Board Assemblies

**1.3 REFERENCES**

- .1 Canadian Standards Association (CSA International)
- .2 CAN/CSA-O80 Series-08 (R2012) - Wood Preservation.
- .3 CSA-O121-08 (R2013) - Douglas Fir Plywood.
- .4 CSA-O141-05 (R2009) - Softwood Lumber.
- .5 CSA-O151-09 - Canadian Softwood Plywood.
- .6 CSA-O437 Series-93 (R2011) - Standards on OSB and Waferboard.
- .7 NLGA (National Lumber Grades Authority) - Standard Grading Rules for Canadian Lumber, 2010 edition.

**1.4 WASTE MANAGEMENT AND DISPOSAL**

- .1 Remove from site and dispose of packaging materials at appropriate recycling facilities.
- .2 Do not dispose of preservative treated wood through incineration.
- .3 Do not dispose of preservative treated wood with materials destined for recycling or reuse.
- .4 Dispose of treated wood, end pieces, wood scraps and sawdust at sanitary landfill approved by City.
- .5 Dispose of unused wood preservative material at official hazardous material collections site approved by City.

- .6 Do not dispose of unused preservative material into sewer system, into streams, lakes, onto ground or in other locations where they will pose health or environmental hazard.

## **1.5 QUALITY ASSURANCE**

- .1 Perform Work in accordance with the following agencies:
  - .1 Lumber Grading Agency: Certified by NLGA.
  - .2 Wood Treatment: CSA O80M.

## **Part 2 Products**

### **2.1 MATERIALS**

- .1 Lumber Grading Rules: NLGA.
- .2 Miscellaneous Framing: CSA O141, Non-structural light grading 19 percent maximum moisture content.
- .3 Panel Materials:
  - .1 Douglas fir plywood (DFP): to CSA O121, standard construction.
  - .2 Canadian softwood plywood (CSP): to CSA O151, standard construction.
  - .3 Plywood, OSB and wood based composite panels: to CAN/CSA-O325.

### **2.2 ACCESSORIES**

- .1 Nails, spikes and staples: to CSA B111.
- .2 Fasteners and Anchors:
  - .1 Fasteners: Hot dipped galvanized steel meeting CAN/CSA-G164, minimum coating of 300 g/m<sup>2</sup> for high humidity and treated wood locations, unfinished steel elsewhere.
  - .2 Anchors: Toggle bolt type for anchorage to hollow masonry.

### **2.3 FACTORY WOOD TREATMENT**

- .1 Wood Preservative (Pressure Treatment): CSA O80M using water borne preservative with 0.30 percent retainage.

## **Part 3 Execution**

### **3.1 FRAMING**

- .1 Set members level and plumb, in correct position.
- .2 Place horizontal members, crown side up.
- .3 Construct curb members of single pieces.
- .4 Space framing and furring 16 inches oc.

- .5 Place miscellaneous blocking, furring, strapping, canting, nailing strips, framing and sheathing where indicated on drawings and as required for secure support of anchorage of other specified materials. Place members true to lines and levels. Secure rigidly in place.
- .6 Coordinate the installation of bucks, anchors, blocking, electrical and mechanical work which is to be placed in or behind partitions. Allow such items to be installed after partition framing is complete. Ensure that allowance is made for thickness of wall finish to be applied.
- .7 Use PWF material when in contact with cementitious materials.

### **3.2 SHEATHING**

- .1 Place sheathing with end joints staggered. Secure sheets over firm bearing. Maintain minimum 1/16" and maximum 1/8" spacing between joints on walls. Place perpendicular to framing members.
- .2 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.

### **3.3 SITE APPLIED WOOD TREATMENT**

- .1 Apply preservative treatment in accordance with manufacturer's instructions.
- .2 Brush apply preservative treatment on wood in contact with cementitious materials. Apply preservative by dipping, or by brush to completely saturate and maintain wet film on surface for minimum 3 minute soak on lumber and one minute soak on plywood.
- .3 Allow preservative to dry prior to erecting members.

**END OF SECTION**

**Part 1 GENERAL**

**1.1 SECTION INCLUDES**

- .1 Finish carpentry items including shop prefabricated casework and countertops.
- .2 Hardware and attachment accessories.

**1.2 RELATED SECTIONS**

- .1 Section 06 10 53 - Rough Carpentry.

**1.3 REFERENCES**

- .1 ANSI A208.2– Medium Density Fiberboard
- .2 CSA O115-M82(R2001), Hardwood and Decorative Plywood.
- .3 BHMA A156.9 - Cabinet Hardware.
- .4 AWI / AWMAC QSI - Quality Standards Illustrated.

**1.4 SUBMITTALS**

- .1 Section 01 33 00: Submission procedures.
- .2 Shop Drawings: Indicate materials, component profiles and elevations, assembly methods, surface graining elevations of sheet paneling, joint details, fastening methods, accessory listings, hardware location and schedule of finishes.

**1.5 QUALITY ASSURANCE**

- .1 Perform work in accordance with AWI /AWMAC QSI Economy Quality.

**1.6 QUALIFICATIONS**

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

**1.7 DELIVERY, STORAGE, AND HANDLING**

- .1 Protect work from moisture damage.
- .2 Store materials in ventilated interior locations with constant minimum temperatures of 16 degrees C and maximum relative humidity of 55 percent.

**1.8 WASTE MANAGEMENT AND DISPOSAL**

- .1 Set aside damaged wood for acceptable alternative uses (e.g. bracing, blocking, cripples, bridging, finger-joining, or ties). Store separated reusable wood waste convenient to cutting station and area of work.

- .2 Separate corrugated cardboard in accordance with Waste Management Plan and place in designated areas for recycling.
- .3 Do not burn scrap at project site.
- .4 Fold up metal banding, flatten, and place in designated area for recycling.

## **1.9 COORDINATION**

- .1 Coordinate the work with plumbing and electrical rough-in, installation of associated and adjacent components.

## **1.10 FIELD MEASUREMENTS**

- .1 Verify that field measurements are as on shop drawings instructed by the manufacturer.

## **Part 2 PRODUCTS**

### **2.1 LUMBER MATERIALS**

- .1 Hardwood Lumber: Graded in accordance with AWI /AWMAC QSI quality standards; flat maximum moisture content of 6 percent of quality suitable for transparent finish.

### **2.2 SHEET MATERIALS**

- .1 Hardwood Plywood: Conforming to requirements of CSA 0115; Graded in accordance with AWI /AWMAC QSI AA particleboard core, type of glue recommended for application.
- .2 Wood Particleboard: CAN3-0188-1M Grade R; AWMAC standard, composed of wood chips, 45 lb/cu ft density, made water resistant adhesive; sanded faces.

### **2.3 PLASTIC LAMINATE MATERIALS**

- .1 Plastic Laminate: to CAN3-A172- M; 0.050 inch General Purpose quality; colour, pattern, and surface texture as selected. 1 colour will be specified on this project from the following acceptable manufacturers standard range.
  - .1 Nevamar
  - .2 Formica
  - .3 Wilsonart
  - .4 Pionite
  - .5 Arborite
- .2 Low Pressure Laminate: Melamine, colour; to be determined by Contract Administrator. Allow for one colour from acceptable manufacturers standard range.
  - .1 Nevamar
  - .2 Formica
  - .3 Wilsonart
  - .4 Pionite

.5 Arborite

## **2.4 FASTENERS**

- .1 Fasteners: Of size and type to suit application; finish in concealed locations and finish in exposed locations.

## **2.5 ADHESIVE**

- .1 Adhesive: Type recommended by laminate manufacturer to suit application.

## **2.6 ACCESSORIES**

- .1 Wood Filler: tinted to match surface finish colour.
- .2 Backsplash: Integral backsplash

## **2.7 HARDWARE**

- .1 Door Pulls: Richelieu, #BP348796170AB, Anti-bacterial, Stainless Steel, Size: 150 mm.
- .2 Shelf Rests: KV No.255 c/w No.256 supports, Nickel finish.
- .3 Vanity Bracket: Richelieu EH1818LV10 with wood mounting face.
- .4 Cabinet Locks: Keyed cylinder, two keys per lock, keyed differently and master keyed, steel with chrome satin finish.
- .5 Hinges: concealed hinges, 110° opening, spring closed, steel with satin finish.
- .6 Felt door bumpers.

## **2.8 FABRICATION CASEWORK**

- .1 Fabricate to AWI /AWMAC QSI Economy standards.
- .2 Shop assemble work for delivery to site, permitting passage through building openings.
- .3 All casework to be plastic laminate on particle board core unless otherwise indicated.
- .4 Exposed to view surfaces to be plastic laminate; interior non-exposed surfaces to be melamine.
- .5 Provide cutouts for plumbing fixtures, fixtures and fittings. Verify locations of cutouts from on-site dimensions. Seal cut edges.
- .6 Cap exposed plastic laminate finish edges with material of same finish and pattern.
- .7 Edging: all edging to be plastic laminate, colour to be selected. Provide plastic laminate self edging to countertops. Apply edging to all edges of loose shelves. Use one piece for full length only.
- .8 Self edge counter top with plastic laminate to match top.

- .9 Fit exposed sheet material edges with plastic edging. Use one piece for full length only.
- .10 When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting.
- .11 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.
- .12 Apply laminate backing sheet to reverse side of plastic laminate finished surfaces.

**Part 3 EXECUTION**

**3.1 EXAMINATION**

- .1 Verify adequacy of backing and support framing.
- .2 Verify mechanical, electrical, and building items affecting work of this section are placed and ready to receive this work.

**3.2 INSTALLATION**

- .1 Install work in accordance with AWI /AWMAC QSI Economy Quality Standard.
- .2 Set and secure materials and components in place, plumb and level.
- .3 Carefully scribe work abutting other components. Do not use additional overlay trim to conceal larger gaps.
- .4 Wood trim and bases shall be installed using the longest possible lumber lengths. Adjacent boards shall be selected and positioned for matching colour and grain. Butting joints shall be scarfed. Nails shall be set and holes filled to match wood colour.
- .5 Install prefinished paneling with full bed contact adhesive applied to substrate.

**3.3 INSTALLATION CASEWORK**

- .1 Set and secure casework in place; rigid, plumb, and level.
- .2 Use fixture attachments in concealed locations for wall mounted components.
- .3 Use concealed joint fasteners to align and secure adjoining cabinet units and counter tops.
- .4 Carefully scribe casework abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim for this purpose.
- .5 Secure cabinet and counter bases to floor using appropriate angles and anchorages.

**3.4 ERECTION TOLERANCES**

- .1 Maximum Variation from True Position: 1/16 inch.
- .2 Maximum Offset from True Alignment with Abutting Materials: 1/32 inch.

END OF SECTION