Part 1 General

1.1 RELATED SECTIONS

.1 Section 01 33 00 - Submittal Procedures

.2 Section 01 74 19 - Construction/Demolition Waste Management And Disposal

.3 Section 01 61 00 - Common Product Requirements

1.2 REFERENCES

.1 Architectural Woodwork Institute (AWI) in conjunction with Architectural Woodwork Manufacturers Association of Canada (AWMAC) and Woodwork Institute (WI):

.1 2009 AWI/AWMAC/WI Architectural Woodwork Standards.

.2 Canadian Standards Association (CSA):

.1 CSA B111-1974(R2003) – Wire Nails, Spikes and Staples

.2 CSA O115-M1982(R2001) – Hardwood and Decorative Plywood

.3 CSA O151-09 – Canadian Softwood Plywood

1.3 SHOP DRAWINGS

.1 Submit shop drawings in accordance with Section 01 33 00.

.2 Indicate details of construction, profiles, jointing, fastening and other related details.

.1 Scales: profiles full size; details 1/2 full size.

.3 Indicate materials, thicknesses, finishes and hardware.

.4 Indicate locations of service outlets in casework, typical and special installation conditions, and connections, attachments, anchorage and location of exposed fastenings.

1.4 SAMPLES

.1 Submit samples in accordance with Section 01 33 00.

.2 Submit samples of hardware and various specialty components as may be requested by Departmental Representative. Hardware and specialty component samples will be returned after review.

.3 Submit duplicate samples illustrating type and finish of hardwood plywood. Make samples 300 mm x 300 mm in size.

1.5 DELIVERY, STORAGE, AND HANDLING

.1 Deliver, handle, store and protect materials of this section in accordance with Section 01 61 00.

.2 Conform to applicable requirements of AWI/AWMAC/WI Architectural Woodwork Standards.

.3 Do not deliver architectural woodwork until arrangements have been made to adequately handle, store, and protect work.

.4 Do not deliver architectural woodwork to site until destination areas are maintained at an ambient temperature between 16° C to 24° C and relative humidity between 25% and 55%.

.5 Assemble architectural woodwork at shop:

.1 Cover with protective weatherproof wrappings.

.2 Deliver in sections sufficient to clear all access openings.

.3 Protect from damage during transport and handling.

1.6 WASTE MANAGEMENT AND DISPOSAL

.1 Separate and recycle waste materials in accordance with Section 01 74 19.

.2 Remove from site and dispose of packaging materials at appropriate recycling facilities.

.3 Collect and separate for disposal paper, plastic, polystyrene, corrugated cardboard, and other packaging material in appropriate on-site bins for recycling in accordance with Waste Management Plan.

.4 Fold up metal banding, flatten, and place in designated area for recycling.

Part 2 Products

2.1 SOLID WOOD MATERIALS

.1 Solid wood for exposed locations: maximum 6% moisture content; clear grade Birch; free of sappy sections, splits, through-checks and other visible imperfections; smoothly machined with true faces.

.2 Solid wood for semi-exposed locations: maximum 6% moisture content; clear grade Birch; free of sappy sections, splits, through-checks and other structural imperfections; smoothly machined with true faces.

.3 Solid wood for concealed locations: structurally sound Spruce, Pine or Fir; maximum 6% moisture content; smoothly machined with true faces.

2.2 SHEET MATERIALS

.1 Birch veneer panels: to CSA O115; complying with the following:

.1 Exposed face veneers: flat cut and book matched Birch; Grade A quality acceptable for transparent finish.

.2 Concealed veneers: plywood.

.2 Softwood plywood: to CSA 0151; G2S grade with solid welded core free of core voids and core overlap.

.3 Cork board: minimum 6 mm thick high density cork in natural color.

2.3 HARDWARE AND ACCESSORIES

.1 Adhesives: types recommended by AWI/AWMAC/WI Architectural Woodwork Standards to suit intended applications; conforming to applicable CSA standards.

.2 Nails: to CSA B111; sizes and types to suit applications.

.3 Bolts, lags, nuts, washers and pins for concealed locations: unless otherwise detailed of sizes and types to suit application and acceptable to Departmental Representative; of corrosion resistant or stainless steel finish.

.4 Screws for semi-concealed and exposed locations: of sizes and types to suit application and acceptable to Departmental Representative; satin finish stainless steel type fitted with stainless steel soft shoulder discs.

.5 Anchors: drilled-in steel inserts for securing to concrete and masonry; size and frequency to rigidly secure architectural woodwork components in place.

.6 Drawer pulls: ‘D’ shaped type with 96 mm centers; nickel plated steel with bright finish.

.7 Drawer mutes: “press-in” molded polyethylene type for 5 mm diameter hole; 2 per door up to 1200 mm in height and 3 per door over 1200 mm in height; 2 per drawer; color selected by Departmental Representative.

.8 Drawer slides (for drawers up to 250 mm in height): side of drawer mounted; steel construction with zinc finish; minimum 45 kg/pair capacity; full extension; steel ball bearings.

.9 Drawer slides (for drawers 250 mm and higher): side of drawer mounted; steel construction with zinc finish; minimum 68 kg/pair capacity; steel ball bearings; 25 mm over travel.

.10 Adjustable standards and supports: zinc coated steel construction with clear finish; heavy-duty; standards recessed application; full height each shelf.

.11 Security clothes hooks: stainless steel construction with sating finish; consisting of 14 gauge back plate with rounded corners; 11 gauge support bracket for hook and 7 gauge hook; hook secured to support bracket by Torx head screw and rubber friction washers; hook designed to release when more than 9 kg of force is applied; tension adjustment made by use of Torx driver; security screws with Torx head for fastening in place.

2.4 FINISHING MATERIALS

.1 Edge banding for casework: 6 mm thick solid Birch.

.2 Transparent finish for all architectural woodwork components: AWI/AWMAC/WI Custom finish system, catalyzed polyurethane in clear color and satin finish, or post-catalyzed lacquer in clear coat and satin finish.

2.5 FABRICATION

.1 Fabricate architectural woodwork components in accordance with AWI/AWMAC/WI custom grade construction, where applicable, and as specified in this Section.

.2 Minor variations in fabrication from that detailed will be acceptable provided finished appearance, strength, function and overall capacity of each component is not adversely affected.

.3 Verify all dimensions on site prior to fabrication.

.4 All fasteners are to be concealed except in locations detailed. Neatly arrange exposed fasteners in locations where they are permitted.

.5 Accurately cut openings for mechanical and electrical services occurring in or passing through components. Obtain templates for cut openings to minimum sizes to ensure that faceplates completely cover openings.

.6 Shop-assemble architectural woodwork components for delivery to site in sizes easily handled, ensuring easy passage through building openings.

.7 Fabricate all architectural woodwork components using Birch veneer panels and solid Birch as detailed.

.8 Use solid wood or plywood for all framing, concealed sub-frames and base frames of casework.

.9 Use dado joints for drawer boxes.

.10 Edge band all drawer fronts, and all exposed edges of casework, beds, tables and desks.

- .1 Use solid wood for banding.
- .2 Use full-length pieces only.
- .3 Form butt corners.

.11 Fabricate window sills using solid wood.

.12 Install hardware and accessory components straight and rigid, and consistent with intended design and function. Install in accordance with manufacturer’s directions.

- .1 Fit each cabinet drawer with the appropriate drawer slides, mutes and a pull.
- .2 Install adjustable standards so that they extend within 25 mm of top and bottom sides of cabinet bodies.
- .3 Install security clothes hooks using security screws.

2.6 FINISHING

.1 Shop apply transparent finish on all architectural woodwork components.

.1 Apply finishes in accordance with AWI/AWMAC/WI Architectural Woodwork Standards.

.2 Fill all fastener holes and finish to match adjacent surfaces.

.3 Apply finishes on components in shop prior to delivery to site.

Part 3 Execution

3.1 INSTALLATION

.1 Maintain jobsite conditions for installation and install architectural woodwork, in accordance with AWI/AWMAC Quality Standards, and as follows:

.1 Use sufficient anchorage for wall-mounted components so as to support weight of cabinets plus superimposed load of minimum 100 kg per running meter of each cabinet.

.2 Use sufficient anchorage for floor-mounted components so as to keep them in place and rigidly upright. Provide sufficient anchorage so that two persons pushing on one side are unable to move or upset components.

.3 All fastening devices are to be neatly arranged and be in inconspicuous locations subject to Departmental Representative’s approval.

.4 When necessary to cut and fit on site, make material with ample allowance for cutting. Provide trim for scribing and site cutting.

.5 Carefully scribe work that is against other building materials, leaving gaps of maximum 2 mm. Do not use additional overlay trim for this purpose.

.6 Fill all fastener holes and finish to match adjacent surface.

.7 Install and adjust all hardware to ensure smooth and correct operation.

.2 Coordinate installation of electrical components built into architectural woodwork components.

.3 Discard materials and components that are unsound, warped, bowed, twisted, improperly treated or finished, or too small to fabricate work with a minimum of joints or optimum jointing arrangement.

.4 Install architectural woodwork components free from chips, cracks, marks, stains, loose material, uneven finishes, raw or sharp edges, damaged corners, indentations, hammer marks or similar defects detrimental to performance or appearance.

3.2 CLEANING

.1 Leave architectural woodwork components clean, free of all dirt, dust and marks

3.3 PROTECTION

.1 Protect from damage until final acceptance.

END OF SECTION