SECTION 06 40 00
ARCHITECTURAL WOODWORK

PART 1 - GENERAL

1.01 SUMMARY

A. This Section includes the following:
   1. Interior standing and running trim.
   2. Plastic-laminate cabinets.
   3. Plastic-laminate countertops.
   4. Solid-surfacing-material countertops.
   5. Wall-mounted shelving.

1.02 SUBMITTALS

A. Product Data: For solid-surfacing material cabinet, hardware and accessories and finishing materials and processes.

B. Shop Drawings: Show location of each item, dimensioned plans and elevations, large-scale details, attachment devices, and other components.

C. Samples:
   1. Lumber and panel products for transparent finish, for each species and cut, finished on one side and one edge.
   2. Plastic-laminates, for each type, color, pattern, and surface finish.
   3. Thermoset decorative panels, for each type, color, pattern, and surface finish.
   4. Solid-surfacing materials.

1.03 QUALITY ASSURANCE

A. Quality Standard: Unless otherwise indicated, comply with AWI's "Architectural Woodwork Quality Standards."

1.04 PROJECT CONDITIONS

A. Environmental Limitations: Do not deliver or install woodwork until building is enclosed, wet work is complete, and HVAC system is operating and maintaining temperature and relative humidity at occupancy levels during the remainder of the construction period.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Wood Species and Cut for Transparent Finish: Select white maple, selected for uniformity of color and grain, and matching adjacent stile and rail doors.

B. Wood Products:
   1. Medium-Density Fiberboard: ANSI A208.2, Grade MD, made with binder containing no urea formaldehyde.
   2. Particleboard: ANSI A208.1, Grade M-2-Exterior Glue.

C. Thermoset Decorative Panels: Particleboard or medium-density fiberboard finished with thermally fused, melamine-impregnated decorative paper complying with LMA SAT-1.

D. High-Pressure Decorative Laminate: NEMA LD 3, grades as indicated or, if not indicated, as required by woodwork quality standard.
   1. Plastic Laminate Type P-LAM A: Nevamar ARP Plus; textured finish; color WM8350T Carmel Sagawood.
   2. Plastic Laminate Type P-LAM B: Nevamar ARP Plus; textured finish; color S2069T Bethany Beige.
   3. Plastic Laminate Type P-LAM C: Nevamar ARP Plus; textured finish; color MR5001T Green Matrix.

E. Solid-Surfacing Material: Homogeneous solid sheets of filled plastic resin complying with ISSFA-2.

F. Plastic Glazing:

G. Plastic Glazing Sheet: Acrylic sheet, ASTM D 4802, Finish 1 (smooth or polished).
   1. Product: One of the following:
      a. Altuglas International, Division of Arkema Inc.; Plexiglas G.
      b. Cyro Industries, a subsidiary of Degussa Corporation; Acrylite GP.
   2. Color: Transparent, colorless.
   3. Thickness: As indicated on Drawings.

2.02 CABINET HARDWARE AND ACCESSORIES

A. General: Provide cabinet hardware and accessory materials associated with architectural woodwork, except for items specified in Division 08 Section "Door Hardware (Scheduled by Describing Products)."

B. Frameless Concealed Hinges (European Type): BHMA A156.9, B01602, 135 degrees of opening, self-closing.

C. Wire Pulls: Back mounted, solid metal, 4 inches long, 5/16 inch in diameter.

D. Drawer Slides: BHMA A156.9, B05091.
   1. Standard Duty (Grade 1, Grade 2, and Grade 3): Side mounted and extending under bottom edge of drawer; full-extension type; epoxy-coated steel with polymer rollers.
   2. File Drawer Slides: Grade 1HD-100; for drawers more than 6 inches high or 24 inches wide.

E. Door Locks: BHMA A156.11, E07121.

F. Drawer Locks: BHMA A156.11, E07041.

G. Exposed Hardware Finishes: For exposed hardware, provide finish that complies with BHMA A156.18 for BHMA finish number indicated.
   1. Satin Stainless Steel: BHMA 630.

2.03 WALL MOUNTED SHELVING

A. Shelving: One of the following, as selected by the Contractor:
   1. HGL-grade plastic laminate on 3/4 inch thick MDF or particleboard.
   2. Thermoset decorative laminate on 1 inch thick particleboard.

B. Brackets and Standards: Knape & Vogt; Heavy Duty Decorative, white finish.
   1. Standard: #82.
   2. Bracket: #182.

2.04 MISCELLANEOUS MATERIALS

A. Adhesives, General: Do not use adhesives that contain urea formaldehyde.

2.05 FABRICATION

A. General: Complete fabrication to maximum extent possible before shipment to Project site. Where necessary for fitting at site, provide allowance for scribing, trimming, and fitting.
   1. Interior Woodwork Grade: Custom.
   2. Shop cut openings to maximum extent possible. Sand edges of cutouts to remove splinters and burrs. Seal edges of openings in countertops with a coat of varnish.

B. Interior Standing and Running Trim:
   1. Backout or groove backs of flat trim members and kerf backs of other wide, flat members, except for members with ends exposed in finished work.

C. Plastic-Laminate Cabinets:
   1. AWI Type of Cabinet Construction: Reveal overlay.
   2. Reveal Dimension: As indicated, or 3/16 inch if not indicated.
   3. Laminate Cladding for Exposed Surfaces: High-pressure decorative laminate as follows:
      a. Horizontal Surfaces Other Than Tops: Grade HGL.
      b. Vertical Surfaces: Grade VGS.
      c. Edges: Grade VGS.
   4. Materials for Semiexposed Surfaces Other Than Drawer Bodies: Thermoset decorative panels.
   5. Drawer Sides and Backs: Thermoset decorative panels.
   6. Drawer Bottoms: Thermoset decorative panels.
   7. Colors, Patterns, and Finishes: Match sample.

D. Plastic-Laminate Countertops:
   1. High-Pressure Decorative Laminate Grade: HGS.
   2. Colors, Patterns, and Finishes: As indicated by manufacturer's designations.
   3. Edge Treatment: Same as laminate cladding on horizontal surfaces; except provide half-round PVC where indicated.
   4. Core Material at Sinks: Particleboard made with exterior glue.

E. Solid-Surfacing-Material Countertops:
   1. Solid-Surfacing-Material Thickness: As indicated, or if not indicated, 1/2 inch minimum.
   2. Colors, Patterns, and Finishes: As indicated by manufacturer's designations.
   3. Fabricate tops in one piece with. Comply with solid-surfacing-material manufacturer's written recommendations for adhesives, sealers, fabrication, and finishing.

F. Acrylic Glazing: Polish exposed edges.

2.06 SHOP FINISHING

A. Finish architectural woodwork at fabrication shop. Defer only final touchup, cleaning, and polishing until after installation.

B. Backpriming: Apply one coat of sealer or primer, compatible with finish coats, to concealed surfaces of woodwork. Apply two coats to back of paneling.

C. Transparent Finish:
   1. Grade: Premium.
   2. AWI Finish System: Conversion varnish.
   3. Staining: Match color of Nevamar plastic laminate, WM8350T Carmel Sagawood.
   4. Wash Coat for Stained Finish: Apply a wash-coat sealer to woodwork made from closed-grain wood before staining and finishing.
   5. Sheen: Satin, 31-45 gloss units measured on 60-degree gloss meter per ASTM D 523.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Before installation, condition woodwork to average prevailing humidity conditions in installation areas. Examine shop-fabricated work for completion and complete work as required, including removal of packing and backpriming.

B. Grade: Install woodwork to comply with requirements for the same grade specified in Part 2 for fabrication of type of woodwork involved.

C. Install woodwork level, plumb, true, and straight to a tolerance of 1/8 inch in 96 inches. Shim as required with concealed shims.

D. Scribe and cut woodwork to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts.

E. Anchor woodwork to anchors or blocking built in or directly attached to substrates. Secure with countersunk, concealed fasteners and blind nailing as required for complete installation. Use fine finishing nails for exposed fastening, countersunk and filled flush with woodwork and matching final finish if transparent finish is indicated.

F. Standing and Running Trim: Install with minimum number of joints possible, using full-length pieces (from maximum length of lumber available) to greatest extent possible. Scarf running

joints and stagger in adjacent and related members. Fill gaps, if any, between top of base and wall with plastic wood filler, sand smooth, and finish same as wood base if finished.

G. Cabinets: Install without distortion so doors and drawers fit openings properly and are accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation.

H. Countertops: Anchor securely by screwing through corner blocks of base cabinets or other supports into underside of countertop. Calk space between backsplash and wall with sealant specified in Division 07 Section "Joint Sealants."

I. Brackets and Standards: Attach brackets into solid blocking or studs. Space at 32 inches o.c. maximum.

END OF SECTION 06 40 00