

BIDDING DOCUMENTS

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ARCHITECTURAL WOODWORK

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

1. Architectural woodwork, casework, trim, hardware, countertops, and shelving as indicated on Drawings not provided by AMS.

B. Related Requirements:

1. Division 01 - General Requirements.
2. Section 09 9000: Painting and Coating.
3. Section 22 1000: Plumbing.

1.02 DEFINITIONS

- A. "Sustainably managed" is defined as "forests that are being managed through a professionally administered forestry management plan in which timber growth equals or exceeds harvesting rates in both quantity and quality, protecting rivers and streams from degradation, minimizing damage to the forest when harvesting and promoting biodiversity".

1.03 SYSTEM DESCRIPTION

- A. Design Requirements: Provide wood products from certified sustainably harvested sources.

1.04 SUBMITTALS

- A. Shop Drawings: Submit Shop Drawings of casework indicating materials and hardware, details of construction, dimensions, methods of fastening and installation details. Shop Drawings shall bear a Woodwork Institute (WI) Certified Compliance Label indicating that Shop Drawings fully meet requirements of the North American Architectural Woodwork Standards (NAAWS) grade or grades specified. Shop Drawings shall indicate grounds, backing, blocking, sleepers and other items required for installation of casework, which are to be provided and installed as part of the Work.
- B. Certificates: Provide a WI Certified Compliance Certificate certifying that materials, fabrication and installation will comply with the specified requirements.
- C. Material Samples: Submit 2-inch by 3-inch plastic laminate and solid surfaces color Samples of manufacturer's entire color range.

- D. Submit manufacturer's product data for adhesives and finishes. Indicate VOC limits of the product. Submit MSDS highlighting VOC limits.
- E. Closeout Submittals: Provide a WI Certified Compliance Certificate for Installation.
- F. Certificate showing composite wood products or hardwood plywood, particleboard, and medium density fiberboard composite wood products used on the interior or exterior of the building meet the requirements for formaldehyde as specified in ARB'S Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). those materials not exempted by the ATCM must meet the specified emission limits as shown in Table 5.504.4.5-FORMALDEHYDE LIMITS (CAL green TABLE, CAL Green of California Code of Regulations, Title 24, Part 11).

1.05 QUALITY ASSURANCE

- A. Comply with the North American Architectural Woodwork Standards (NAAWS), latest edition, published jointly by the Architectural Woodwork Manufacturer's Association of Canada and the Woodwork Institute of California, grades as specified herein.
- B. Each elevation of casework shall bear a WI Certified Compliance Label indicating that casework fully meets requirements of the AWS grade specified.
- C. Each plastic laminate countertop and/or solid surface top shall bear a WI Certified Compliance Label indicating tops fully meet requirements of the AWS grade specified.
- D. Mock-ups: When required by the Architect, submit a full-scale base cabinet, countertop, and wall-hung cabinet, illustrating joinery and plastic laminate finish. Base cabinet shall incorporate a drawer, an adjustable shelf, and a door. Wall-hung cabinet shall incorporate two doors, one adjustable shelf and finished end, including required hardware.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Materials shall be delivered to the Project site in undamaged condition, stored in fully covered, well ventilated areas, and protected from extreme changes in humidity and temperature. Refer to the North American Architectural Woodwork Standards (NAAWS) for recommended care and storage.
- B. In event of damage immediately furnish necessary repairs or replacements.

1.07 PROJECT CONDITIONS

- A. Store indoors, in ventilated areas with constant but minimum temperature of 60 degrees F. and maximum relative humidity of 25 percent to 55 percent. Do not install casework until building is enclosed and ambient conditions are within the temperature and humidity range to be expected during occupancy. Acclimatize materials to the installation temperature and humidity for at least 72 hours prior to installation. Maintain conditions until Substantial Completion.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Plastic Laminate Faced Cabinets:

1. Plastic laminate: High pressure plastic laminate conforming to NEMA standard LD-3; Grade HGS 0.048 inches at horizontal surfaces, Grade VGS 0.028 inches at exposed vertical surfaces and edge bands, and HGP 0.039 inch minimum for post-formed countertops.
2. Particle Board Core Material: 45 lb. density, conforming to ANSI A208.1, Table 1, Grade 1-M-2.
3. Solid Lumber:
 - a. Solid lumber for exposed members, drawers, trays and special details shall be Clear birch or maple.
 - b. Unexposed solid lumber for concealed webs or structural members shall be of Douglas Fir., alder or birch.
4. Softwood Plywood: Rotary cut exterior type A-C grade softwood plywood complying with PS1.
5. Hardboard: Factory finished pressure sealed hardboard conforming to the requirements of PS 58. Oil tempered hardboard shall conform to CS 251.
6. Cabinet Liner: Semi-exposed surfaces shall be finished with 0.020 inch high-pressure laminate cabinet liner, conforming to NEMA Standard LD-3.
7. Edge Banding: One of the following.
 - a. T-type extruded tenite-butyrates 1/16 inch minimum thickness, with serrated leg 3/8 inch in length. Use only when matching existing.
 - b. 0.028 inch minimum thickness plastic laminate.
 - c. PVC, 0.6 mm at cabinet sides, top, bottom divisions and shelves, 3 mm at doors, drawer fronts and false fronts.
8. Glass Doors: 1/4 inch laminated safety glass.
9. Adhesive: Type II water-resistant, rigid type glue of formula conforming to PS 51.
10. Sealer: Thompson Water Seal 101, Watco Oil, Zinsser, or equal.
11. Base: Cover toe spaces with typical wall base unless otherwise indicated.

B. Wood Casework:

1. Sheets:
 - a. Medium Density Fiberboard (MDF): ANSI A208.2.
 - b. Medium Density Overlay (MDO): APA PS-1.
 - c. Hardwood Plywood: ANSI/HPVA – HP-1.
 2. Edge Banding: Same species of wood as adjacent to exposed surfaces.
- C. Countertops:
1. Solid Surfaces: Solid Epoxy Countertops in color black onyx.
 - a. Durcon
 - b. Equal.
- D. Hardware:
1. Drawer Slides for Custom Grade Cabinetry:
 - a. Pencil drawers: Full extension type: Accuride 2006, Blum, Hafele, or equal.
 - b. Drawers and box drawers, up to 24 inches wide: Accuride 3832E, Blum, Hafele, or equal.
 2. Drawer Slides for Premium Grade Cabinetry:
 - a. Pencil drawers: Full extension type: Accuride 2632, Blum, Hafele, or equal.
 - b. Drawers and box drawers, up to 24 inches wide: Accuride 7432, Blum, Hafele, or equal.
 3. Door Mutes: Rubber, approximately 1/4 inch diameter, colors to match adjacent finish.
 4. Plastic Grommets: Doug Mockett, Alliance Express, Rockler, or equal; color as selected by Architect.
 5. Adjustable Shelves with Clips: Adjustable shelf supports (EDP type, unless otherwise noted) set in 5 mm holes spaced 32 mm on center:
 - a. Hafele America, Co., No. 282.04.711, Blum, Hettich, or equal.
 - b. Hafele America, Co., No. 282.24.13, Blum, Hettich, or equal.
 6. Hinges: Five-knuckle overlay hinge with hospital tip - Rockford 376, or equal.
 7. Cabinet Locks:

- a. Cabinet Lock shall be provided at each door and cabinet provided by General Contractor.
 - b. Door Locks: Pin tumbler type – CompX National No. C8173, Olympus 100DR x 12-1 strike, CCL Security Products, or equal.
 - c. Locks for Sliding Doors: National No. C8142 x thimble strike, Olympus 300 SD x thimble strike, CCL Security Products, or equal.
 - d. Drawer Locks: CompX National C8179 brass strike, Olympus 200 DW x 12-1 strike, CCL Security Products, or equal.
 - e. Cabinet locks shall be flush with surface of door and protrude no greater than 3/16 inch.
- 8. Pulls: Quality No. 179 x 180, Trimco No. 553P, Hafele, or equal.
 - 9. Catches: Magnetic type - Epco No. 592, Lawrence No. SC1364-AL, or equal.
 - 10. Four-way Tension Catch: Glynn-Johnson GJ21A, Trimco, Quality, or equal.
 - 11. Noiseless Catch:
 - 12. Elbow Catch: Schlage SP2A3, or equal.
 - 13. Bolts: Surface type, Quality B6, Trimco No. 4856-6, or equal.
 - 14. Hardware Finish: With exception of finish hardware items which have finishes specified, hardware shall be furnished with dull chrome US 26D or dull stainless steel US 32D finish.
 - 15. Keying:
 - a. Key locks inside one room alike. Furnish three keys for each lock keyed separately, and 2 keys for each lock in keyed alike groups. Master keys shall be tagged and delivered to the Inspector. Locks and keys shall be stamped with coded set number / direct digit.
 - b. Master keys shall be National GM2.

2.02 FABRICATION

- A. Plastic Laminated Casework: Construction of plastic laminated casework shall conform to the material and construction requirements for North American Architectural Woodwork Standards Custom grade, flush overlay construction, except, modified as follows:
 - 1. Exposed Exterior surfaces shall be High Pressure Decorative Laminate grade VGS.
 - a. Edge Band: PVC 1 mm. for cabinet body and 3 mm. at doors and drawer

fronts.

2. Exposed Interior surfaces: Interior surfaces of open cabinets shall be laminated to match exteriors. Cabinets with glass doors shall use cabinet liner grade CLS.
3. Semi-exposed Surfaces: Shall be cabinet liner grade CLS and edges of panels shall be edge banded per 2.01 A.
4. Cabinet bases may be integral or separate. Bases shall be 3/4 inch thick plywood securely jointed at four corners to a supporting block 1 1/2-inch thick.
5. Adjustable shelving shall be 3/4 inch thickness particleboard for spans up to 25 inches and one inch thickness for spans over 25 inches up to 34 inches. Adjustable shelving over 34 inches in span shall be one inch thick plywood core with 0.020 inch cabinet liner grade CLS both sides. Shelving hardware shall be adjustable to 1 1/4 inch centers. Faces of shelving shall be finished with 0.020 inch thickness cabinet liner grade CLS both sides.
6. Drawers:
 - a. Drawers shall be of dovetail or dowel construction. Sides, backs and sub-fronts shall be made of 1/2 inch thick clear birch or maple solid stock, or 9 ply plywood without knots or interior voids. Drawer bottoms shall be in accordance with AWI requirements, glued and nailed.
 - b. Drawers shall be fitted with ball bearing slides accurately installed for smooth drawer operation.
 - c. Drawer fronts shall be of 3/4 inch thick plastic laminate construction, fully edge-banded with plastic laminate T-banding to be used when matching existing. T-banding joint shall occur at center of bottom edge of panel.
7. Doors:
 - a. Doors shall be of flush overlay type. Doors shall be fully edge-banded. Doors of cabinets within any group of adjacent units shall be in alignment.
 - b. Wrap around hinges shall be routed into edge of door.
8. Back Priming: Seal unfinished materials installed for backs, bases, self-edge backing, stripping and other concealed portions with a water-repellent sealer.
9. Banding:
 - a. Edge banding shall be accurately fitted. Where edge band joins plastic surfaces, there shall be no open spaces, voids, or chipping of plastic laminate surface.
 - b. Exposed cabinet surfaces shall be flush, and any protruding edges of banding

shall be machined or trimmed to provide a flat smooth corner at intersection of banding and adjoining surfaces. Plastic laminate edge banding shall be installed on tops, webs, bottoms, ends, and inside partitions. T banding may only be installed on drawer fronts and door edges and when required to match existing.

2.03 FINISHING

- A. Wood casework and wood components of laminated plastic casework shall be factory finished. Exposed surfaces shall be finished with one coat of lacquer sealer and 2 coats of finish lacquer. Unexposed materials such as backs, webs, back of tops, and the like, shall be sealed with one oil base prime coat. Semi-exposed wood surfaces such as drawers shall be finished with one coat of sanding sealer and one coat of clear gloss lacquer.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Install Work of this section as specified in the North American Architectural Woodwork Standards (NAAWS), grade to match the grade of the work to be installed.
- B. Cabinets: Install cabinets level, plumb, and secure to walls. Exposed screws shall have finish washers.
- C. End Panels and Fillers: Furnish to match exposed surfaces and accurately scribe to walls and neatly and securely fit to cabinets.
- D. Completion: Upon completion of installation, cabinets including drawers and shelves shall be cleaned. Doors and drawers shall operate easily and freely.
- E. Scribe plastic laminated cabinets to walls. Installation of surface-applied moldings is not permitted.
- F. Coordinate sink and penetration locations with 22 1000 Plumbing and Drawing A503.
- G. Install solid surface countertops per NAAWS custom grade.

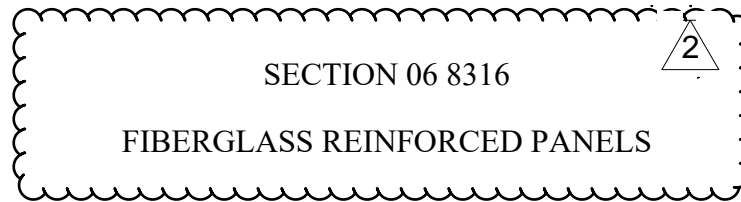
3.02 CLEAN UP

- A. Remove debris, rubbish and waste material and legally dispose of off the Project site.

3.03 PROTECTION

- A. Protect the Work of this section until Substantial Completion.

END OF SECTION



PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Fiberglass reinforced plastic panels and accessories.
- B. Related Requirements:
 - 1. Division 01 - General Requirements.
 - 2. Section 09 2900 - Gypsum Board.

1.02 PROJECT REQUIREMENTS

- A. Fiberglass reinforced plastic panels and accessories for service areas as indicated on the Drawings.

1.03 SUBMITTALS

- A. Shop Drawings: Indicate location and dimension of joints and fastener attachments
- B. Samples: Submit 8 inch by 10 inch sample of each type, color, and accessories to be installed.
- C. Certificate of Compliance: Submit certificate from manufacturer the installed wall surfacing meets Specification requirements.

1.04 QUALITY ASSURANCE

- A. Comply with the following as a minimum requirement:
 - 1. Class A Interior Finish Material as defined by the National Fire Protection Association Life Safety Code 101.
 - 2. Underwriters Laboratories, Inc. listed, in accordance with ASTM E84, Standard Test Method for Surface Burning Characteristics of Building Materials.
 - 3. USDA/FSIS Requirements.
 - 4. FMRC (Factory Material Research Center) approved.

1.05 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in manufacturer's cartons properly labeled and identified.

- B. Store materials flat in a clean, dry storage area where temperature shall be maintained above 50 degrees F. Do not store rolls on end.

1.06 PROJECT CONDITIONS

- A. Installation environment shall be stable and controlled.
- B. Room temperature shall be controlled to 75 degrees F plus or minus 5 degrees, during and after installation.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Wall and/or ceiling panels: Crane Composites, Fire-X Glasbord FM with Surfaseal, Marlite FRP Panel Class A, Panolam Industries International Inc., or equal.
 - 1. Wall Panels: Class 1 (A) Interior Finish. Thickness to be .09 inch, embossed, color as selected by Architect.
 - 2. Class A Flame Spread: Less than 25, with Smoke Developed less than 450, per ASTM E84.
 - 3. Barcol Hardness scratch resistance: 39 as per ASTM D2583, Standard Test Method for Indentation Hardness of Rigid Plastics by Means of a Barcol Impressor.
 - 4. IZOD Impact per ASTM D256: 11.
 - 5. Color selected from standard colors by Architect.
- B. Stainless steel trim. Provide inside corner and outside corners, panel division and edge trim.
- C. Adhesive and Sealants: VOC compliant, as recommended by manufacturer.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Examine backup surfaces to determine corners are plumb and straight, surfaces are smooth, uniform, clean and free from foreign matter, nails countersunk, joints and cracks filled flush and smooth with the adjoining surface.
- B. Do not begin installation until backup surfaces are in satisfactory condition.

3.02 APPLICATION

- A. Perform cutting with carbide tipped saw blades or drill bits, or cut with snips.
- B. Install panels with manufacturer's recommended gap for panel field and corner joints.

- C. Fastener holes in the panels shall be predrilled 1/8 inch oversize.
- D. For trowel type and application of adhesive, follow adhesive manufacturer's recommendations.
- E. Utilizing products acceptable to manufacturer, install the system in accordance with panel manufacturer's printed instructions.

3.03 CLEANING

- A. Remove rubbish, debris, and waste materials and legally dispose of off the Project site.

3.04 PROTECTION

- A. Protect the Work of this section until Substantial Completion.

END OF SECTION