

Addendum

No. ONE Date: 10.8.18

Project: **A New Office
for
Gaston Elementary School
for
The Etowah County Board of Education
Gadsden, Alabama**

PROJECT NO. 18-179

A1.1 GENERAL

- A. The following changes and/or substitutions to the plans and specifications are hereby made a part of same and are incorporated in full force as part of the contract.
- B. Bidders shall acknowledge receipt of this Addendum in writing on his Proposal Form.

A1.2 SPECIFICATIONS

- A. Refer to attached specification **Section 12304, Laminate Clad Casework**, herein.

A1.3 DRAWINGS- NONE

End of Addendum ONE

SECTION 12304 - LAMINATE CLAD CASEWORK

PART 1 - GENERAL

RELATED DOCUMENTS

Drawings and general provisions of the contract including General and Supplementary Conditions and Division 1 Specification Sections apply to work of this section.

WORK INCLUDED:

The extent of laminate clad casework as shown on the drawings.

The work includes the fabrication and installation of laminate clad casework components of base cabinets, wall cabinets, tall cabinets, shelf units, related countertops and other units as indicated.

RELATED WORK SPECIFIED ELSEWHERE:

Sinks and Service Fixtures: Furnished and installed under Mechanical and Electrical Divisions 15 and 16.

Base Moulding: Furnished and installed under Finishes Division 9.

QUALITY ASSURANCE:

Provide laminate clad casework and countertops furnished by the same supplier for single responsibility and integration with other building trades.

Manufacturers shall show evidence of at least five (5) years experience and installations for similar types of projects.

Millwork must conform to design quality of materials, workmanship and function of casework specified and shown on drawings.

SUBMITTALS:

Product Data: In addition to the general conditions as relates to prior approvals, submittals of manufacturer's data, installation instructions and samples are required upon architect's request.

Samples:

1. Submit 2, 2" x 3" samples of casework manufacturer's standard decorative laminate colors, patterns and textures for exposed and semi-exposed materials for architect's selection.
2. Samples will be reviewed by architect for color, texture, and pattern only. Compliance with other specified requirements is the exclusive responsibility of the contractor.
3. Submit one full-size sample base cabinet unit with hardware, doors and drawers, without countertop.
4. Submit one full-size sample wall cabinet unit complete with hardware, doors, and adjustable shelves.
5. Acceptable sample units will be used for comparison inspections at the project. Unless otherwise directed, acceptable sample units may be incorporated in the work. Notify architect of their exact locations. If not incorporated in the work, retain acceptable sample units in the building until completion and acceptance of the work.
6. Remove sample units from the premises when directed by the architect.

Shop Drawings:

1. Submit shop drawings for laminate clad casework and counter- tops showing layout, elevations, ends, cross-sections, service run spaces, and location of services. Show details and location of anchorages.
2. Include layout of units with relation to surrounding walls, doors, windows, and other building components.
3. Coordinate shop drawings with other work involved.

PRODUCT HANDLING:

Deliver laminate clad casework and countertops only after wet operations in building are completed.

Store completed laminate clad casework and countertops in a ventilated place, protected from the weather, with relative humidity range of 20% to 50%.

Protect finished surfaces from soiling and damage during handling and installation. Keep covered with a protective covering.

JOB CONDITIONS:

Humidity and Temperature Controls:

1. Advise contractor of requirements for maintaining heating, cooling and ventilation in installation areas as required to reach relative humidity necessary to maintain optimum moisture content.

WARRANTY:

All materials and workmanship covered by the section will carry a one (1) year warranty from date of acceptance.

PART 2 - PRODUCTS

ACCEPTABLE MANUFACTURERS:

TMI Systems - Dickson, N.D.
Case Systems- Midland, MI.
L.S.I.
Stevens Industries - Teutropolis, IL.

MATERIALS:

Definitions: Identification of casework parts by surface visibility.

1. Unit Body Open Interiors: Any storage unit surface without solid door or drawer fronts and units with glass sliding or glass framed doors.
2. Unit Body Closed Interiors: Any storage unit surface behind solid door or drawer fronts.
3. Unit Body Exposed Side: Any storage unit exterior side surface is visible.
4. Concealed Surfaces: Any surface not normally visible after installation.

CORE MATERIALS:

Particleboard: Minimum density 45 lb. western particleboard of fir or pine meeting or exceeding ANSI A 208 1-1979, 1-M-3 requirements. Thickness used are 1/4", 1/2", 3/4" and 1". (Thickness of particleboard excluding skins).

Hardboard: Prefinished hardboard in 1/4" thickness meeting or exceeding commercial standards CS-251.

Plywood: Shall be 9-ply hardwood plywood.

DECORATIVE LAMINATES:

High pressure decorative laminate GP50 (.050), NEMA Test LD-3 - 1985.

High pressure decorative laminate GP38 (.038), NEMA Test LD-3 - 1985.

High pressure decorative laminate GP28 (.028), NEMA Test LD-3 - 1985. Laminate shall be counter balanced.

High pressure decorative laminate PF42 (.042), NEMA Test LD-3 - 1985.

High pressure decorative laminate PF30 (.030), NEMA Test LD-3 - 1985

High Pressure cabinet liner CL20 (.020), NEMA Test LD-3 - 1985.

Laminate shall be counter balanced.

Melamine laminate tested to meet NEMA Test LD-3 - 1985. Laminate shall be counter balanced.

High pressure backer BK20 (.020). Laminate shall be counter balanced.

Laminate Color Selection:

Colors for countertop grades GP50, GP38, PF42 and PF30 shall be selected from Wilsonart's standard solid and pattern offering. A maximum of five (5) colors per project.

Colors for cabinet surfaces grade GP28 shall be selected from Wilsonart's color quest series. A maximum of one (1) color to be selected per unit face and five (5) colors per project.

Melamine colors shall be light beige or dove grey. One color only per project.

PLASTIC EDGING:

1mm PVC hot melt glue applied.

3mm PVC hot melt glue applied.

METAL PARTS:

Countertop support brackets, legs and miscellaneous metal parts shall be furniture steel, welded, degreased, cleaned, treated and powder painted in light beige, sienna brown, dove grey or black colors.

CABINETS HARDWARE:

Hinges: Shall be five knuckle, 2-3/4 inch, overlay type, hospital tip, .095 inch thick steel. Hinges shall have a minimum of eight (8) edge and leaf fastenings. Doors 48 inches and over in height shall have three (3) hinges per door. Available in light beige, sienna brown, dove grey, black colors, or brushed chrome finish. Magnetic door catches are required with this hinge and shall be magnetic type with a minimum ten (10) pound pull, attached with screws and slotted for adjustment.

Pulls: Door and drawer fronts shall be a semi-flush ABS plastic recessed and fastened with glue and screws. Available in light beige, sienna brown, dove grey or black colors.

Drawer Slides: Shall be Blum bottom mount style No. BS 230E with epoxy finish. Slides will have a 100 pound load rating at full extension and a built-in, positive stop both directions. Slides shall have a life time warranty as offered by the slide manufacturer.

Adjustable Shelf Supports: Shall be heavy-duty to support two hundred (200) pounds, self-locking nylon, to fit 32mm pre-drilled holes in cabinet ends and vertical partitions. The self supports shall have two (2) pins 5mm in diameter, to prevent the shelf support from rotating and tipping. Available for 3/4 inch or 1 inch thick shelves.

Locks:

For doors and drawers as shown on drawings shall be National Lock #M4-7054C, removable core, disc tumbler, cam style lock with strike. Each lock shall be furnished with two (2) keys. Locks for sliding 3/4" doors shall be disc type plunger lock, sliding door type with strike locks for sliding glass doors shall be a ratchet type sliding showcase lock. Install locks on all teacher's cabinets.

Chain bolts shall be 3 inches long, shall have a 18 inch pull and an angle strike to secure inactive door on cabinets over 72 inches in height. Elbow catches shall be used on inactive doors up to and including 72 inches in height.

Coat Rods: Shall be 1-1/4 inch, 14 gauge chrome plated steel.

Mirrors: Shall be 1/4 inch thick polished mirror plate.

Computer Grommets: Shall be 2 1/2 inch dia. plastic insert and cover to be located at each computer station.

FABRICATION:

Fabricate laminate clad casework to dimensions, profiles and details shown.

Cabinet Joinery: Tops and bottoms shall be joined to cabinet ends using a minimum of six (6) dowels at each joint for twenty- four (24) inch deep cabinets and a minimum of four (4) dowels at each joint for twelve (12) inch deep cabinets. All dowels are to be industrial grade hardwood laterally fluted, with chamfered ends and a minimum diameter of ten (10) millimeters. Internal cabinet components such as fixed horizontals, rails and verticals are to be doweled in place. Dowels are to be securely glued and cabinets clamped under pressure during assembly to assure secure joints and cabinets and squareness.

Unit Door and Drawer Fronts:

1. Shall be 3/4 inch thick particleboard and laminate with high pressure decorative laminate GP28 color as selected on the exposed surface and high pressure laminate cabinet liner CL20 on the interior surface light beige or dove grey color.
2. All edges shall be finished with 3mm PVC in light beige, sienna brown, dove grey or black color.
3. Framed glass insert doors shall be 1/4 inch thick plate glass trimmed with extruded PVC plastic in light beige, sienna brown, dove grey or black color only.
4. Double doors shall be used on all cabinets in excess of 24 inches in width.

Unit Body Open Interiors:

1. Exposed cabinet sides shall be 3/4 inch thick particleboard laminated on the exterior with high pressure decorative laminate GP28 in color as selected and balanced with high pressure cabinet liner CL20 in light beige or dove grey color. The front edge shall be edgebanded with 1mm PVC to match the door and drawer front edge color.
2. Unexposed cabinet sides shall be 3/4 inch thick particleboard laminated both sides with melamine in light beige or dove grey color. The front edge shall be edgebanded with 1mm PVC to match the door and drawer front edge color.
3. Unit top or subtop shall be 3/4 inch thick particleboard laminated both sides with melamine and front edge with 1mm PVC to match the door and drawer front edge color. All subtops shall be full depth.
4. Bottom of base and wardrobe units shall be 3/4 inch thick particleboard laminated both sides with melamine and front edged with 1mm PVC to match the door and drawer front edge color.
5. Fixed intermediates shall be 3/4 inch thick particleboard laminated both sides with melamine and front edged with 1mm PVC to match the door and drawer front edge color. An inter- mediate will be provided on all units over 36 inches wide.
6. Standard unit backs shall be 1/2 inch thick prefinished particleboard. Color to match interior. Exposed back on fixed or movable cabinet to be 3/4 inch thick particleboard laminated with CL20 on the interior to match melamine color and GP28 on the exterior as selected.
7. Adjustable shelves shall be 3/4 inch thick particleboard up to 30 inches wide and 1 inch thick particleboard over 30 inches wide, laminated both sides with melamine in light beige or dove grey color.
8. Shelves shall be edged front edge only with 1mm PVC to match the self color.

Unit Body Closed Interiors:

1. Exposed cabinet sides shall be 3/4 inch thick particleboard laminated on the exterior with high pressure decorative laminate GP28 in color as selected and balanced with high pressure cabinet liner CL20 in light beige or dove grey color. The front edge shall be edgebanded with 1mm PVC to match the door and drawer front edge color.
2. Unexposed cabinet sides shall be 3/4 inch thick particleboard laminated both sides with melamine in light beige or dove grey color. The front edge shall be edgebanded with 1mm PVC to match the door and drawer front edge color.
3. Unit top or subtop shall be 3/4 inch thick particleboard laminated both sides with melamine and front edged with 1mm PVC to match the door and drawer front edge color. All sub- tops shall be full depth. Sink base units shall have a 1 inch x 1 inch x 1/8 inch angle iron rail in lieu of full sub- top.
4. Bottom of base and wardrobe units shall be 3/4 inch thick particleboard laminated both sides with melamine and front edges with 1mm PVC to match the door and drawer front edge color. Sink cabinet bottoms shall be laminated both sides with CL20.
5. Fixed intermediates shall be 3/4 inch thick particleboard laminated both sides with melamine and front edged with 1mm PVC to match the door and drawer front edge color. An intermediate will be provided on all units over 36 inches wide.
6. Standard unit backs shall be 1/2 inch thick prefinished particleboard. Color to match interior. Exposed back on fixed or movable cabinet to be 3/4 inch thick particleboard laminated with CL20 on the interior to match melamine color and GP28 on the exterior as selected.
7. Adjustable shelves shall be 3/4 inch thick particleboard up to 30 inches wide and 1 inch thick particleboard over 30 inches wide, laminated both sides with melamine in light beige or dove grey color.
8. Shelves shall be edged front edge only with 1mm PVC to match the shelf color.

Wall Unit Bottom:

1. For units with open interiors shall be 3/4 inch thick particleboard laminated both sides with melamine laminate in light beige or dove grey color.
2. For units with closed interiors shall be 3/4 inch thick particleboard laminated both sides with melamine laminate in light beige or dove grey color.
3. The front edge shall be edgebanded with 1mm PVC to match the door and drawer front edge color. The exposed bottom edge of each wall cabinet side shall be edgebanded with 1mm PVC.

Drawers:

1. Sides, back and sub-front shall be particleboard, 1/2 inch thick, laminated with melamine in light beige or dove grey color. The back and sub-front are dowelled and glued into sides. Dowels shall be fluted, with chamfered ends and a minimum diameter of eight (8) millimeters. To edge is banded with 1mm PVC edging in a matching color.
2. Drawer bottom shall be 1/2 inch thick prefinished particle- board with color to be light beige or dove grey, screwed directly to the bottom edges of the drawer box.
3. Paper storage drawers are of heavy-duty 3/4 inch particle- board laminated both sides with melamine color to be light beige or dove grey, and constructed with retaining hood at the rear of each drawer.

Continuous or Unit Tops: All cabinets over 42" and up to 72" in height shall be supplied where shown with a finished 1" continuous top laminated with high pressure decorative laminate GP28 and balanced with high pressure backer BK20.

Bases: All base and tall units shall have an integral base. Rubber vinyl base covering will be furnished and applied by others.

DECORATIVE LAMINATE COUNTERTOPS:

General: Provide materials which have been selected for surface flatness and smoothness. Exposed surfaces which exhibit pitting, seam marks, roller marks, stains, discolorations, telegraphing of core material, or other imperfections on finished units are not acceptable.

Adhesives or fasteners to be provided for securing of tops to cabinet work. Such materials to allow for contraction or expansion of tops where necessary.

Tops shall be 1" thick unless otherwise specified and provided with 4" high curbs where tops abut walls, columns, case ends, etc.

Backsplashes and Side-plashes shall be provided as indicated on drawings.

Types:

1. Plastic laminate counter tops shall be surfaced with general purpose horizontal grade laminate. Cores shall be 1-1/8" built- up wood front edge; #45 density particleboard. All exposed edges, including back and end splashes, must be covered with the same laminate as top surfaces. When splice joints are required, they shall be joined with dowel pins and tite-joint fasteners as needed for a gapless joint.

Plastic Laminate Type: Fire-rated type, 0.050" thick; UL tested and labeled ratings of 25 for flame spread, 25 for fuel contributed and 100 for smoke developed when bonded to wood particle board.

Preparations for Finishing: Comply with AWI Quality Standards, Section I500, for sanding, filling countersunk fasteners, backpriming and similar preparations for finishing of architectural woodwork, as applicable to each unit of work

PART 3 - EXECUTION

INSPECTION:

The installer must examine the jobsite and the conditions under which the work under this section is to be performed, and notify the contractor in writing of unsatisfactory conditions. Do not proceed with work under this section until unsatisfactory conditions have been corrected in a manner acceptable to the installer.

PREPARATION:

Conditions laminate clad casework to average prevailing humidity conditions in installation areas prior to installing.

INSTALLATION:

Install casework with factory-trained supervision authorized by manufacturer. Erect casework, plumb, level, true and straight with no distortions. Shim as required. Where laminate clad casework abuts other finished work, scribe and cut to accurate fit.

Adjust casework and hardware so that doors and drawers operate smoothly without warp or bind. Lubricate operating hardware as recommended by Manufacturer.

CLEANING AND PROTECTION:

Repair or remove and replace defective work as directed upon completion of installation.

Clean plastic surfaces, repair minor damage per plastic laminate manufacturer's recommendations. Replace other damaged parts or units.

Advise contractors of procedures and precautions for protection of casework and tops from damage by other trades until acceptance of the work by the Owner.

END OF SECTION 12304