SECTION 101100 - VISUAL DISPLAY UNITS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Markerboard assemblies.
   2. Tackboard assemblies.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.
   1. Include construction details, material descriptions, dimensions of individual components and profiles, finishes, and accessories for visual display units.

B. Shop Drawings: For visual display units.
   1. Include plans, elevations, sections, and attachment details.
   2. Show locations of panel joints.
   3. Show locations and layout of special-purpose graphics.
   4. Include sections of typical trim members.

C. Samples for Verification: For each type of visual display unit indicated.
   1. Visual Display Board Assemblies: Not less than 8-1/2 by 11 inches, with facing, core, and backing indicated for final Work. Include one panel for each type, color, and texture required.
   2. Trim: 6-inch- long sections of each trim profile.
   3. Display Rail: 6-inch- long section of each type.
   4. Accessories: Full-size Sample of each type of accessory.

D. Product Schedule: For visual display units. Use same designations indicated on Drawings.

1.3 INFORMATIONAL SUBMITTALS

A. Product Test Reports: For each visual display unit, for tests performed by manufacturer and witnessed by a qualified testing agency.

B. Sample warranties.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance Data: For visual display units.

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1.5 QUALITY ASSURANCE

A. Installer Qualifications: Entity that employs installers and supervisors who are trained and approved by manufacturer.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver factory-fabricated visual display units completely assembled in one piece. If dimensions exceed maximum manufactured unit size, or if unit size is impracticable to ship in one piece, provide two or more pieces with joints in locations indicated on approved Shop Drawings.

1.7 FIELD CONDITIONS

A. Environmental Limitations: Deliver and install visual display units when spaces are enclosed and weathertight, wet-work in spaces is complete and dry, work above ceilings is complete, and temporary HVAC system is operating and maintaining ambient temperature and humidity conditions at occupancy levels during the remainder of the construction period.

1.8 WARRANTY

A. Special Warranty for Porcelain-Enamel-Faced Sheets: Manufacturer agrees to repair or replace porcelain-enamel-faced sheets that fail in materials or workmanship within specified warranty period.
   1. Failures include, but are not limited to, the following:
      a. Surfaces lose original writing and erasing qualities.
      b. Surfaces exhibit crazing, cracking, or flaking.
   2. Warranty Period: Life of the building.

PART 2 - PRODUCTS

2.1 MARKERBOARD ASSEMBLIES

A. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:
   1. ASI Visual Display Products.
   2. Claridge Products and Equipment, LLC.
   3. Ghent; a GMi Company.

B. Markerboards
   1. Assembly: Factory fabricated.
      a. Corners: Square.
      b. Width: As indicated on Drawings.
      c. Height: As indicated on Drawings.

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2. Markerboard Material: Porcelain-enamel-faced sheet.
   a. Color: As indicated on Drawings.
3. Core Material:
   a. Manufacturer's Standard: Minimum 1/4 inch thick, with manufacturer's standard moisture-barrier backing.
4. Trim:
   a. Aluminum Frames and Trim:
      1) Factory-Applied Trim: Fabricated from not less than 0.062-inch- thick, extruded aluminum; standard size and shape.
      2) Finish: Clear anodic finish.
5. Accessories:
   a. Tray: Manufacturer's standard; continuous marker tray.
      1) Solid Type: Extruded aluminum with ribbed section and smoothly curved exposed ends.
   b. Display Rail: Manufacturer's standard, extruded-aluminum display rail with colored-cork insert, end stops, designed to hold accessories.
      1) Size: 1 inch high by full length of visual display unit.
      2) Tackboard Insert Color: As indicated by manufacturer's designation.

2.2 TACKBOARD ASSEMBLIES

A. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:
   1. A-1 Visual Systems.
   2. AJW Architectural Products.
   3. ASI Visual Display Products.
   4. Aarco Products, Inc.
   5. Egan Visual.
   6. Ghent; a GMi Company.
   7. MooreCo Inc.
   8. Platinum Visual Solutions.

B. Tackboard:
   1. Assembly: Factory fabricated.
      a. Corners: Square.
      b. Width: As indicated on Drawings.
      c. Height: As indicated on Drawings.
   2. Tackboard Material: [**Natural-cork**] [**Colored-cork**] [**Vinyl-fabric-faced**] [**Burlap weave fabric-faced**] [**Polyester-fabric-faced**] panel.
      a. Fabric Wrapped Edge: Wrap edge of tackboard panel with fabric facing.
      b. Color and Pattern: As indicated on Drawings.
   3. Core Material:
      a. Manufacturer's standard.
   4. Trim:
      a. Wood Trim:

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1) Factory-Applied Trim: Manufacturer's standard species, not less than 1/2 inch thick; standard size and shape with transparent finish.

2.3 MATERIALS

A. Porcelain-Enamel-Faced Sheet: PEI-1002, with face sheet manufacturer's standard two- or three-coat process.

B. Colored-Cork Sheet: Seamless, homogeneous, self-sealing sheet consisting of granulated cork, linseed oil, resin binders, and dry pigments that are mixed and calendared onto fabric backing; with integral color throughout.

C. Polyester Fabric: Nondirectional weave, 100 percent polyester; weighing not less than 15 oz./sq. yd.; with surface-burning characteristics indicated.

D. Hardboard: ANSI A135.4, tempered.

E. Particleboard: ANSI A208.1, Grade M-1.

F. Fiberboard: ASTM C208 cellulosic fiber insulating board.

G. Medium Density Fiberboard (MDF): ANSI A208.2, Grade 130.

H. Extruded Aluminum: ASTM B221, Alloy 6063.

I. Adhesives for Field Application: Mildew-resistant, nonstaining adhesive for use with specific type of panels, sheets, or assemblies; and for substrate application; as recommended in writing by visual display unit manufacturer.

J. Primer/Sealer: Mildew-resistant primer/sealer complying with requirements in Section 099100 "Painting" and recommended in writing by visual display unit manufacturer for intended substrate.

2.4 ALUMINUM FINISHES

A. Clear Anodic Finish: AAMA 611, AA-M12C22A31, Class II, 0.010 mm or thicker.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Installer present, for compliance with requirements for installation tolerances, surface conditions of wall, and other conditions affecting performance of the Work.

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B. Examine walls and partitions for proper preparation and backing for visual display units.

C. Examine walls and partitions for suitable framing depth where sliding visual display units will be installed.

D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Comply with manufacturer's written instructions for surface preparation.

B. Clean substrates of substances, such as dirt, mold, and mildew, that could impair the performance of and affect the smooth, finished surfaces of visual display boards.

C. Prepare surfaces to achieve a smooth, dry, clean surface free of flaking, unsound coatings, cracks, defects, projections, depressions, and substances that will impair bond between visual display units and wall surfaces.

D. Prime wall surfaces indicated to receive visual display units and as recommended in writing by primer/sealer manufacturer and visual display unit manufacturer.

3.3 INSTALLATION OF VISUAL DISPLAY UNITS

A. General: Install visual display units in locations and at mounting heights indicated on Drawings, or if not indicated, at heights indicated below. Keep perimeter lines straight, level, and plumb. Provide grounds, clips, backing materials, adhesives, brackets, anchors, trim, and accessories necessary for complete installation.

B. Factory-Fabricated Visual Display Board Assemblies:
   1. Attach concealed clips, hangers, and grounds to wall surfaces and to visual display board assemblies with fasteners at not more than 16 inches o.c. Secure tops and bottoms of boards to walls.
   2. Adhere to wall surfaces in accordance with manufacturer's written instructions.

C. Visual Display Board Assembly Mounting Heights: Install at heights indicated on Drawings.

3.4 CLEANING

A. Clean visual display units in accordance with manufacturer's written instructions. Attach one removable cleaning instructions label to visual display unit in each room.

B. Touch up factory-applied finishes to restore damaged or soiled areas.

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3.5 PROTECTION

A. Cover and protect visual display units after installation and cleaning.

END OF SECTION 101100

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