SECTION 074600 - SIDING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes aluminum, fiber-cement and vinyl siding.

1.2 SUBMITTALS

A. Product Data: For each type of product indicated.

1. For vinyl siding, include VSI's official certification logo printed on product data.

B. Samples: For siding including related accessories.

C. Qualification Data: For qualified vinyl siding Installer.

D. Product certificates.

E. Product test reports.

F. Research/evaluation reports.

G. Maintenance data.

H. Warranty: Sample of special warranty.

1.3 QUALITY ASSURANCE

A. Labeling: Provide fiber-cement siding that is tested and labeled according to ASTM C 1186 by a qualified testing agency acceptable to authorities having jurisdiction.

B. Vinyl Siding Installer Qualifications: A qualified installer who employs a VSI-Certified Installer on Project.

C. Vinyl Siding Certification Program: Provide vinyl siding products that are listed in VSI's list of certified products.

D. Source Limitations: Obtain each type, color, texture, and pattern of siding, including related accessories, from single source from single manufacturer.

E. Preinstallation Conference: Conduct conference at location of Owner’s choosing.

1.4 WARRANTY

A. Special Warranty: Standard form in which manufacturer agrees to repair or replace siding that fail(s) in materials or workmanship within specified warranty period.

1. Warranty Period: 25 years from date of Substantial Completion.

1.5 EXTRA MATERIALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Furnish full lengths of siding including related accessories, in a quantity equal to 2 percent of amount installed.

PART 2 - PRODUCTS

2.1 ALUMINUM SIDING

A. General: Formed and coated aluminum siding complying with AAMA 1402.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

a. Alcoa Home Exteriors, Inc.
b. Gentek Building Products, Inc.
c. Kaycan Ltd.
d. Norandex/Reynolds Distribution; an Owens Corning company.
e. Rollex Corporation.

B. Horizontal Pattern: 8-inch exposure in plain, single- board style.

C. Horizontal Pattern: 10-inch exposure in plain, double, 5-inch board style.

D. Vertical Pattern: 12-inch exposure in board-and-batten, single-board style.

E. Vertical Pattern: 16-inch exposure in V-grooved, triple, 5-1/3-inch board style.

F. Texture: To match existing texture.

G. Nominal Thickness: 0.019 inch.

H. Insulation: Manufacturer's standard integral insulation panels.

I. Finish: Manufacturer's standard primer and baked-on acrylic.

1. Colors: To match existing siding color and finish.

2.2 FIBER-CEMENT SIDING

A. General: ASTM C 1186, Type A, Grade II, fiber-cement board, noncombustible when tested according to ASTM E 136; with a flame-spread index of 25 or less when tested according to ASTM E 84.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

   a. Cemplank.
   b. CertainTeed Corp.
   c. GAF Materials Corporation.
   d. James Hardie.
   e. MaxiTile, Inc; a California corporation.
   f. Nichiha Fiber Cement.

2. Horizontal Pattern: Boards 5-1/4 inches wide in plain style.

   a. Texture: To match existing texture.

3. Vertical Pattern: 48-inch- wide sheets with wood-grain texture and grooves 8 inches o.c.
4. Shingle Pattern: 48-inch- wide, straight-edge notched sheets with wood-grain texture.
5. Panel Texture: 48-inch- wide sheets to match existing texture.
6. Factory Priming: Manufacturer's standard acrylic primer.

2.3 VINYL SIDING

A. General: Integrally colored vinyl siding complying with ASTM D 3679.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

   a. Alcoa Home Exteriors, Inc.
   b. Alside.
   c. CertainTeed Corp.
   d. Crane Performance Siding.
   e. Gentek Building Products, Inc.
   f. Heartland Building Products.
   g. Kaycan Ltd.
   h. Louisiana-Pacific Corporation.
   i. Mitten Inc.
   j. Owens Corning.
   k. Resource Materials Corporation.
   l. Rollex Corporation.
   m. Royal Building Products.
   n. Variform, Inc.

B. Horizontal Pattern: 6-1/2- or 7-inch exposure in beaded-edge, single-board style.

C. Horizontal Pattern: 8-inch exposure in plain, single- board style.

D. Horizontal Pattern: 8-inch exposure in Dutch-lap, double, 4-inch board style.

E. Horizontal Pattern: 9-inch exposure in plain, double, 4-1/2-inch board style.

F. Horizontal Pattern: 9-inch exposure in Dutch-lap, double, 4-1/2-inch board style.

G. Horizontal Pattern: 10-inch exposure in plain, double, 5-inch board style.

H. Vertical Pattern: 6-inch exposure in V-grooved, single-board style.

I. Vertical Pattern: 8-inch exposure in beaded-edge, double, 4-inch board style.

J. Vertical Pattern: 10-inch exposure in V-grooved, double, 5-inch board style.

K. Vertical Pattern: 12-inch exposure in V-grooved, double, 6-inch board style.

L. Shingle Pattern: 48-inch- wide, straight-edge notched sheets with wood-grain texture.

M. Texture: To match existing siding.

N. Nominal Thickness: 0.040 inch.

O. Minimum Profile Depth (Butt Thickness): 5/8 inch.

P. Nailing Hem: Double thickness.

Q. Finish: Wood-grain print with clear protective coating containing not less than 70 percent PVDF.

1. Colors: To match existing color.

2.4 ACCESSORIES

A. Siding Accessories, General: Provide starter strips, edge trim, outside and inside corner caps, and other items as recommended by siding manufacturer for building configuration.

1. Provide accessories matching color and texture of adjacent siding unless otherwise indicated.

B. Aluminum Accessories: Where aluminum accessories are indicated, provide accessories complying with AAMA 1402.

1. Texture: To match existing texture and finish.
2. Nominal Thickness: 0.019 inch.
3. Finish: Manufacturer's standard primer and baked-on acrylic.

C. Vinyl Accessories: Integrally colored vinyl accessories complying with ASTM D 3679 except for wind-load resistance.

1. Texture: To match existing texture.

D. Flashing: Provide aluminum flashing complying with Division 07 Section "Sheet Metal Flashing and Trim" at window and door heads and where indicated.

1. Finish for Aluminum Flashing: Same as aluminum siding.

E. Fasteners:

1. For fastening to wood, use siding nails of sufficient length to penetrate a minimum of 1 inch into substrate.
2. For fastening to metal, use ribbed bugle-head screws of sufficient length to penetrate a minimum of 1/4 inch, or three screw-threads, into substrate.
3. For fastening aluminum, use aluminum fasteners. Where fasteners will be exposed to view, use prefinished aluminum fasteners in color to match item being fastened.
4. For fastening fiber cement, use hot-dip galvanized fasteners.
5. For fastening vinyl, use hot-dip galvanized fasteners. Where fasteners will be exposed to view, use prefinished aluminum fasteners in color to match item being fastened.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates for compliance with requirements for installation tolerances and other conditions affecting performance of siding and related accessories.

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

3.2 INSTALLATION

A. General: Comply with siding manufacturer's written installation instructions applicable to products and applications indicated unless more stringent requirements apply.

1. Do not install damaged components.
2. Center nails in elongated nailing slots without binding siding to allow for thermal movement.

B. Install aluminum siding and related accessories according to AAMA 1402.

1. Install fasteners no more than 24 inches o.c.

C. Install fiber-cement siding and related accessories.

1. Install fasteners no more than 24 inches o.c.

D. Install vinyl siding and related accessories according to ASTM D 4756.

1. Install fasteners for horizontal vinyl siding no more than 16 inches o.c.
2. Install fasteners for vertical vinyl siding no more than 12 inches o.c.

E. Install joint sealants as specified in Division 07 Section "Joint Sealants" and to produce weathertight installation.

F. Where aluminum siding will contact dissimilar metals, protect against galvanic action by painting contact surfaces with primer or by applying sealant or tape or installing nonconductive spacers as recommended by manufacturer for this purpose.

3.3 ADJUSTING AND CLEANING

A. Remove damaged, improperly installed, or otherwise defective materials and replace with new materials complying with specified requirements.

B. Clean finished surfaces according to manufacturer's written instructions and maintain in a clean condition during construction.

END OF SECTION 074600