NEW CONCEPT LOUVERS

READY–MADE CUPOLAS

SECTION 10343
CUPOLAS

PART 1 — GENERAL

1.01 DESCRIPTION

A. Work includes: Furnish labor and materials to complete fabrication of ready-made cupolas as shown on Drawings. Work shall include but not be limited to:
   1. Wood curb (where required)
   2. Base section
   3. Middle section (louvers or windows)
   4. Roof section
   5. Weather vane

B. Related Work Specified Elsewhere:
   1. Installation by carpenter trade
   2. Roofing material
   3. Flashing
   4. Sealants

1.02 SUBMITTALS

A. Product Data:
   1. Manufacturer’s published cut sheets showing model selections, colors, and weather vane selections

B. Shop Drawings:
   1. Submit to Architect for approval showing connections of parts and anchorage system to roof structure.
   2. Show elevations that illustrate roof slope, louver placement, and weather vane.

C. Samples:
   1. Submit cladding samples showing available textures and colors.

D. Project Closeout Submittals:
   1. Submit Cupola Manufacturer’s installation and maintenance instructions.

1.03 QUALITY ASSURANCE

A. Manufacturer’s Qualifications:
   1. Manufacturer shall have at least five (5) years’ experience manufacturing cupolas equal to those specified in this section.

1.04 DELIVERY, HANDLING AND STORAGE

A. Cupola Manufacturer shall package complete cupola including all parts, anchorage materials, and weather vane in wood crate of sufficient construction to protect cupola and all its parts.

B. Contractor shall store cupola in covered area off the ground and protected from damage.

PART 2 — PRODUCTS

2.01 APPROVED MANUFACTURER

A. New Concept Louvers
   2940 South State Street
   P.O. Box 583
   Springville, Utah 84663
   Phone: (801) 489-0614 or (800) 635-6448
   E-mail: info@newconceptlouvers.com
   www.newconceptlouvers.com

2.02 MANUFACTURED UNITS

A. General:
   1. Three-part design for ease of installation

B. Base Section:
   1. Wood construction with coated aluminum cladding
   2. Preinstalled 2” x 8” cleats to secure cupola to roof

C. Louver Section:
   1. Wood framing with coated aluminum cladding
   2. Louvers: 0.019” thick coated aluminum stock with attached insect screen
   3. Screens: 9 x 9 ventmesh Fiberglas®

D. Windows with Grids (special order)

E. Roof section:
   1. 16-ounce copper cladding
   2. Options: Aluminum, flat sheet painted steel, shingles, or other as specified by Architect

F. Weather Vane (optional):
   1. As selected by Architect from Cupola Manufacturer’s complete list of weather vanes

G. Models (choose one):
   1. Stansbury: Louvers, Square Base, Hip Roof
   2. Jamestown: Louvers, Square Base, Pagoda Roof
   3. Charleston: Louvers, Square Base, Bell Roof
   4. Estate: Louvers, Hexagon Base, Hip Roof
   5. Madison: Louvers, Hexagon Base, Pagoda Roof
   6. Richmond: Louvers, Hexagon Base, Bell Roof
   7. Georgetown: Louvers, Octagon Base, Hip Roof
   8. Providence: Louvers, Octagon Base, Pagoda Roof
   9. Bedford: Windows, Octagon Base, Bell Roof
   10. Windsor: Windows, Square Base, Hip Roof
   11. Trenton: Windows, Square Base, Pagoda Roof
   12. Vermont: Windows, Square Base, Bell Roof
   14. Davenport: Windows, Hexagon Base, Pagoda Roof
   15. York: Windows, Hexagon Base, Bell Roof
   16. Lexington: Windows, Octagon Base, Hip Roof
   18. Arlington: Windows, Octagon Base, Bell Roof

2.03 ACCESSORIES

A. Attachments:
   1. Base Attachments: 4-inch-long bolts with washers and nuts supplied by Cupola Manufacturer

B. Curbing Attachments (if required): 4-inch-long bolts with washers and nuts supplied by Cupola Manufacturer

C. Lights for windowed cupolas

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2.04 FINISHES

A. PVC-clad aluminum or baked enamel

B. Color:
   1. As selected by Architect from manufacturers’ standard 400 colors

PART 3 — EXECUTION

3.01 EXAMINATION

A. Installation on Existing Roofing Material:
   1. Examine condition of roofing material and slope of roof to be certain cupola can be properly installed.
   2. Notify Architect in writing of unacceptable existing conditions.

B. Installation on New Construction without Applied Roofing Material:
   1. Examine condition and size of opening to receive curb and cupola.
   2. Verify that roof slope, where applicable, is correct.

3.02 PREPARATION

A. Removal of Existing Shingles:
   1. Fiberglas®/asphalt shingles: Carefully remove ridge cap (row of shingles on peak of roof) where the cupola will be installed. (Other shingles may be left in place.)
   2. Shingles thicker than Fiberglas®/asphalt: Remove all shingles from area where cupola will be installed.

B. Marking and Cutting Ventilation Hole (venting louvers only):
   1. Mark where hole in roof will be cut, coming in at least 1 inch from cleats that are installed in the base section (or 1 inch in from the cleats of the curb) and the same total distance in from the inside walls of sides that do not have cleats.
   2. Being careful not to cut through or into trusses or other structural lumber, cut out ventilation hole.

3.03 INSTALLATION

A. Installation of Optional Curb (new construction):
   1. Using 4-inch bolts furnished by Cupola Manufacturer, install and attach cupola curb in accordance with Cupola Manufacturer’s written installation instructions.

B. Install cupola in accordance with Cupola Manufacturer’s written installation instructions.
   1. Place base section in position and adjust so it is plumb and level. Use shims if necessary.
   2. Attach base section to roof.
      a. If not using optional curb: Drill a 7/16-inch-diameter hole through each cleat (total of four holes) and into the roof. Bolt base to roof through the holes using bolts, washers, and nuts provided by Manufacturer with cupola.
      b. If using optional curb (new construction):
         Attach cupola to curb in accordance with Cupola Manufacturer’s written installation instructions, using the four 4-inch painted carriage bolts provided by Cupola Manufacturer.
   3. Using specified sealant, seal around bottom of base section to keep water from leaking under cupola.
   4. Place louver (or window) section on top of base section, with lip of base fitting snugly inside bottom of louver (or window) section.
   5. Place roof section on top of louver (or window) section, with lip of roof section fitting snugly inside top of louver (or window) section.
   6. Replace painted 1/2-inch screws at corners of louver (or window) section with 2-inch painted stainless-steel screws included with cupola.
      a. Replace screws one at a time, and finish replacing each screw before removing next screw.
      b. After removing existing 1/2-inch screw, predrill 7/64-inch-diameter hole for 2-inch replacement screw.
      c. To avoid indenting aluminum, do not “bottom out” replacement screw. Finish tightening by hand.

3.04 CLEANING

A. Remove leftover materials from installation caused by work of this section from site and dispose of legally.

B. Clean cupola to be free of dirt or smudging caused by storage, handling, or installation of cupola.

END OF SECTION