PART 1 GENERAL

1.01 SECTION INCLUDES
   A. Digitally printed glass, including heat-treated, insulating glass units and laminated glass.

1.02 REFERENCE STANDARDS
   C. ASTM C724 - Standard Test Method for Acid Resistance of Ceramic Decorations on Architectural-Type Glass
   H. GANA TD 02-0402 - Heat-Treated Glass Surfaces Are Different
   I. GANA 01-0300 - Proper Procedures for Cleaning Architectural Glass Products

1.03 SUBMITTALS
   A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

1.04 MOCK-UPS
   A. See Section 01 4000 - Quality Requirements, for additional mock-up requirements.

1.05 WARRANTY
   A. Provide limited 10-year warranty (See GGI warranty for Alice).

PART 2 PRODUCTS

2.01 MANUFACTURERS
   A. Basis of Design Glass Fabricators:
      1. GGI - General Glass International; Alice Digital Printed Glass: www.generalglass.com/#sle.

2.02 GLASS MATERIALS
   A. Float Glass: Provide float glass based glazing unless noted otherwise.
      1. Heat-Strengthened and Fully Tempered Types: ASTM C1048, Kind HS and FT.
   B. Laminated Glass: Float glass laminated in accordance with ASTM C1172.
      1. Laminated Safety Glass: Complies with ANSI Z97.1 and 16 CFR 1201 test requirements for Category II.

2.03 GLAZING UNITS
   A. Type G-16 - Direct to Glass Ceramic Printing: Ceramic frit is fused into glass creating permanent designs.
      1. Applications: Locations as indicated on drawings.
2. Color: As indicated on drawings.
3. Printing Style: As indicated on drawings.
4. Glass Type: Fully tempered; monolithic glass system.
5. Thickness: 1/4 inch, 3/8 inch, 1/2 inch, or 3/4 inch, nominal.
6. Manufacturers:
   a. GGI - General Glass International; Alice Direct-to-Glass Printing: www.generalglass.com/#sle.

**PART 3 EXECUTION**

**3.01 VERIFICATION OF CONDITIONS**

A. Verify that openings for glazing are correctly sized and within tolerances, including those for size, squareness, and offsets at corners.
B. Verify that the minimum required face and edge clearances are being provided.
C. Verify that surfaces of glazing channels or recesses are clean, free of obstructions that may impede moisture movement, weeps are clear, and support framing is ready to receive glazing system.
D. Verify that sealing between joints of glass framing members has been completed effectively.
E. Proceed with glazing system installation only after unsatisfactory conditions have been corrected.

**3.02 PREPARATION**

A. Clean contact surfaces with appropriate solvent and wipe dry within maximum of 24 hours before glazing. Remove coatings that are not tightly bonded to substrates.
B. Seal porous glazing channels or recesses with substrate compatible primer or sealer.
C. Prime surfaces scheduled to receive sealant where required for proper sealant adhesion.

**3.03 INSTALLATION, GENERAL**

A. Install glazing in compliance with written instructions of glass, gaskets, and other glazing material manufacturers, unless more stringent requirements are indicated, including those in glazing referenced standards.
B. Do not exceed edge pressures around perimeter of glass lites as stipulated by glass manufacturer.
C. Set glass lites of system with uniform pattern, draw, bow, and similar characteristics.
D. Set glass lites in proper orientation so that coatings face exterior or interior as indicated.
E. Prevent glass from contact with any contaminating substances that may be the result of construction operations such as, and not limited to the following; weld splatter, fire-safing, plastering, mortar droppings, etc.

**3.04 FIELD QUALITY CONTROL**

A. See Section 01 4000 - Quality Requirements, for additional requirements.
B. Glass and Glazing product manufacturers to provide field surveillance of the installation of their products.
C. Monitor and report installation procedures and unacceptable conditions.

**3.05 CLEANING**

A. See Section 01 7419 - Construction Waste Management and Disposal, for additional requirements.
B. Remove excess glazing materials from finish surfaces immediately after application using solvents or cleaners recommended by manufacturers.
C. Remove non-permanent labels immediately after glazing installation is complete.
D. Clean glass and adjacent surfaces after sealants are fully cured.
E. Clean glass on both exposed surfaces not more than 4 days prior to Date of Substantial Completion in accordance with glass manufacturer's written recommendations.

F. Glass to be cleaned in accordance with:
   1. GANA TD 02-0402 - Heat-Treated Glass Surfaces Are Different
   2. GANA 01-0300 - Proper Procedures for Cleaning Architectural Glass Products

3.06 PROTECTION
   A. Remove and replace glass that is damaged during construction period prior to Date of Substantial Completion.

END OF SECTION