PART 1 GENERAL

1.01 SECTION INCLUDES
A. Ticket window units.
B. Pass drawer/devices.
C. Accessories.

1.02 RELATED REQUIREMENTS
A. Section 07.25.00 - WEATHER BARRIERS: Sealing frames to weather barrier installed on adjacent construction.
B. Section 07.92.00 - Joint Sealants: Sealing joints between frames and adjacent construction.

1.03 REFERENCE STANDARDS
E. UL 752 - Standard for Bullet-Resisting Equipment; Current Edition, Including All Revisions.

1.04 ADMINISTRATIVE REQUIREMENTS
A. Coordinate work with adjacent materials specified in other sections and as indicated on drawings and approved shop drawings.
B. Coordinate electrical service and rough-in requirements.
C. Preinstallation Meeting: Prior to start of installation arrange a meeting on site to familiarize installer and installers of related work with requirements relating to this work.

1.05 SUBMITTALS
A. See Section 01.30.00 - Administrative Requirements, for submittal procedures.
B. Product Data: Submit manufacturer's product data for specified products indicating materials, operation, glazing, finishes, and installation instructions.
C. Shop Drawings: Indicate configuration, sizes, rough-in, mounting, anchors and fasteners, and installation clearances.
D. Test Data: Test reports for specific window model and glazing to be furnished, showing compliance with all specified requirements; window and glazing may be tested separately, provided window test sample adequately simulates the glazing to be used.
E. Samples for Selection of Finishes:
   1. Color Anodized Finishes: Frame member sections showing range of color to be expected in finished work.
F. Installer qualification data.
G. Warranty: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.06 QUALITY ASSURANCE
   A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum ten years documented experience, with ability to provide test reports showing that their standard manufactured products meet the specified requirements.
   B. Installer Qualifications: Company specializing in performing work of the type specified in this section.
   C. Testing Agency Qualifications: Independent testing agency able to show experience in conducting tests of the type specified and experienced in the type of testing specified.

1.07 DELIVERY, STORAGE, AND HANDLING
   A. Deliver units in manufacturer's original packaging and unopened containers with identification labels intact.
   B. Store units in area protected from exposure to weather and vandalism.

1.08 WARRANTY
   A. See Section 01.78.00 - Closeout Submittals, for additional warranty requirements.
   B. Provide manufacturer's warranty agreeing to repair or replace units and their components that fail in materials or workmanship within two years from Date of Substantial Completion.

PART 2 PRODUCTS

2.01 TICKET WINDOW UNITS
   A. Ticket Window with Pass-Thru Device:
      1. Location: Exterior, at main entrance gate structure.
      2. Window: Pass-through, single horizontal sliding.
         b. Size: As indicated on drawings.
         c. Material: Aluminum.
         d. Finish: Natural anodized.
      4. Pass-Thru Device: Deal tray built into window sill.
         b. Finish Color: As selected from manufacturer's standard colors.
      5. Communication: Integrated microphone, speaker and call button.
      6. Products:
         a. Quikserv Corp; T1 Series Ticket Window with deal tray: www.quikserv.com.

2.02 COMPONENTS
   A. Windows: Factory-fabricated, -finished, and -glazed, extruded aluminum frame and glazing stops; complete with hardware and anchors.
      1. Provide window units that are re-glazable from the secure side without dismantling the non-secure side of framing.
      2. Rigidly fit and secure joints and corners with internal reinforcement. Make joints and connections flush, hairline, and weatherproof. Fully weld corners.
      3. Apply factory finish to all exposed surfaces.
4. Wind Design: Design and size components to withstand dead loads and live loads caused by pressure and negative wind loads acting normal to plane of window as calculated in accordance with applicable code.
5. Horizontal Sliding Windows: Top-hung operable sash; hook bolt locking device with thumb-turn release.

B. Pass-Thru Devices: Stainless steel construction; transfer area automatically locking when in a closed position; manual operation unless otherwise indicated.

2.03 MATERIALS
A. Aluminum Extrusions: Minimum 1/8 inch thick frame and sash material complying with ASTM B221 and ASTM B221M.
B. Stainless Steel: Type 304 with No. 3 - Coarse finish.
C. Ballistic Resistant Glazing: Laminated plastic and glass construction, with glass on both faces; complying with performance level indicated.
D. Sealant for Setting Sills and Sill Flashing: Non-curing butyl type.

2.04 FINISHES
A. Class I Natural Anodized Finish: AAMA 611 AA-M12C22A41 Clear anodic coating not less than 0.7 mils thick.
B. Class II Natural Anodized Finish: AAMA 611 AA-M12C22A31 Clear anodic coating not less than 0.4 mils thick.

2.05 ACCESSORIES
A. Amplified Speak-Thru: Voice-activated speaker/microphone units located both sides of a partition; battery operated, aluminum construction; UL 752, Level 2 bullet resistant.
   1. Control Side: On/off switch; gooseneck microphone; volume controls.
B. Hardware and Security Devices for Sliding Windows:
   1. Auto-Lock Handle: Stainless steel auto-locking handle on all self-closing sliders to prevent intrusion.

PART 3 EXECUTION

3.01 EXAMINATION
A. Verify that window openings are ready for installation of windows.
B. Verify that correct embedded anchors are in place and in proper location; repair or replace anchors as required to achieve satisfactory installation.
C. Notify Architect if conditions are not suitable for installation of units; do not proceed until conditions are satisfactory.

3.02 INSTALLATION
A. Install in accordance with manufacturer's instructions.
B. Install units in correct orientation (inside/outside or secure/non-secure).
C. Anchor units securely in manner so as to achieve performance specified.
D. Set sill members and sill flashing in continuous bead of sealant.
E. Connect electrical components to power source.

3.03 ADJUSTING
A. Adjust operating components for smooth operation while also maintaining a secure, weather-tight enclosure and a tight fit at the contact points; lubricate operating hardware.

3.04 CLEANING AND PROTECTION
A. Remove protective material from factory finished surfaces.
B. Clean exposed surfaces promptly after installation without damaging finishes.
C. Remove and replace defective work.
D. Provide temporary protection to ensure that security windows are without damage upon Date of Substantial Completion.

3.05 DEMONSTRATION
A. Train Owner's maintenance personnel to adjust, operate, and maintain operable units.
1. Instructor: Manufacturer's training personnel.
2. Location: At project site.
3. Use operation and maintenance manual as training reference, supplemented with additional training materials as required.

END OF SECTION