New Entrance 2022
Neshoba General
Philadelphia, MS

From: Foil Wyatt Architects & Planners, PLLC
1510 North State Street, Suite 200
Jackson, MS 39202

Addendum No. 1

February 16, 2023

This addendum forms a part of the contract documents and modifies the original plans and specifications dated January 12, 2023.

Specifications:

Item 1.1: Section 085653 - Security Windows

Replace: This section with the enclosed revised section.

End of Addendum No. 1

SECTION 085653

SECURITY WINDOWS

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes:

1. Exterior and interior window units.
2. Bullet resistant exterior and interior security pass, service and teller window units.
3. Glazing.
4. Intercom and talk through.

B. Related Sections:

1. Section 042000 - Unit Masonry: Partition construction
2. Section 079005 - Joint Sealers
3. Section 084313 - Aluminum-Framed Entrances and Storefronts
4. Section 088000 - Ballistics-Resistant Fiberglass
5. Section 260030: Electrical requirements Division 26

1.02 REFERENCES

A. American Architectural Manufacturers Association:

1. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum.
2. AAMA 2603 - Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels.

B. American Society Mechanical Engineers Standards:

1. ASME SA-240/SA-240M - Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications.

C. ASTM International:

1. ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
2. ASTM B221/B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
3. ASTM C1048 - Standard Specification for Heat-Treated Flat Glass-Kind HS, Kind FT Coated and Uncoated Glass.
4. ASTM D790 - Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
5. ASTM D1929 - Standard Test Method for Determining Ignition Temperature of Plastics.

6. ASTM E488 - Standard Test Methods for Strength of Anchors in Concrete and Masonry Elements.
7. ASTM E699 - Standard Practice for Evaluation of Agencies Involved in Testing, Quality Assurance, and Evaluating of Building Components.
8. ASTM E2188 - Standard Test Method for Insulating Glass Unit Performance.
9. ASTM E2189 - Standard Test Method for Testing Resistance to Fogging in Insulating Glass Units.
10. ASTM E2190 - Standard Specification for Insulating Glass Unit Performance and Evaluation.

D. Consumer Products Safety Commission:
1. CPSC 16 CFR 1201 - Safety Standard for Architectural Glazing.

E. Florida Building Code:
1. Static Air Pressure Test.

F. H.P. White Laboratory, Inc.:
1. HPW-TP0500.01:
a. Level V.
b. Level C Ballistics (.44 magnum).
2. HPW-TP-0500.02 - Level B Ballistics (9mm).

G. National Association of Architectural Metal Manufacturers.
1. NAAMM No. 3 Finish: Ground unidirectional uniform finish obtained with 80 -100 grit abrasive.

H. SAE International:
1. AMS5511 - Steel, Corrosion-Resistant, Sheet, Strip, and Plate, 19Cr - 9.5Ni (304L), Solution Heat Treated.
2. AMS5513 - Steel, Corrosion-Resistant, Sheet, Strip, and Plate 19cr 9.2Ni (SAE 30304) Solution Heat Treated.

M. Underwriters Laboratory:
1. UL 73 - Motor-Operated Appliances.
2. UL 325 - Door, Drapery, Gate, Louver, and Window Operators and Systems.
3. UL 752 - Ballistic Standards:
a. Level I MPSA 9mm.
b. Level III SPSA .44 Magnum.
4. UL 1995 - Heating and Cooling Equipment.

1.03 PERFORMANCE REQUIREMENTS

A. System Design:

1. 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.

B. System Internal Drainage: Drain water entering joints, condensation occurring in glazing channels, and migrating moisture occurring within system, to exterior by weep drainage network.

C. Air and Vapor Seal: Maintain continuous air barrier and vapor retarder throughout assembly, primarily in line with [inside] pane of glass and heel bead of glazing compound. [Position thermal insulation on exterior surface of air barrier and vapor retarder.]

D. Ballistics-Resistance Performance: Provide units identical to those tested for compliance with requirements indicated, and as follows:

1. Listed and labeled as bullet resisting according to UL 752.
2. Tested for ballistics resistance according to UL 752, HPW-TP-0500.01, HPW-TP-0500.02.

F. Provide glass and glazing materials for continuity of building enclosure vapor retarder and air barrier:

1. To utilize the inner pane of multiple pane sealed units for the continuity of the air barrier and vapor retarder seal.

1.04 SUBMITTALS

A. Section 01 33 00 - Submittal Procedures: Requirements for submittals.

B. Shop Drawings:

1. Indicate configuration, sizes, rough-in, mounting, construction and glazing details as well as installation clearances and finishes.

C. Product Data:

1. Submit manufacturer's product data for specified Products indicating materials, operation characteristics, and finishes.

D. Samples:

1. Submit two samples, 4 x 4 inches (100 x 100 mm) in size illustrating metal finishes for each finish specified.

E. Test Reports:

1. [Indicate compliance with specified bullet resistance performance.]

F. Manufacturer's Installation Instructions:

1. Submit installation instructions with requirements to accommodate specific site conditions.

1.05 QUALITY ASSURANCE

A. Products Requiring Electrical Connection: Listed and classified by UL or testing firm

acceptable to authority having jurisdiction.

1.06 QUALIFICATIONS

A. Manufacturer: Company specializing in manufacturing Products specified in this section with minimum 10 years documented experience.

1. Participates in a Quality Assurance validation Program.

a. Facility Audit.

B. Installer: Company specializing in installation of window systems specified with minimum three years documented experience.

1.07 DELIVERY, STORAGE, AND PROTECTION

A. Section 01 60 00 - Product Requirements: Requirements for transporting, handling, storing, and protecting products.

B. Ordering: To avoid construction delays comply with ordering instructions and lead time requirements as set by window system manufacturer.

C. Pack window units in manufacturer's standard shipping containers and protective packaging. Deliver units in manufacturer's original packaging and unopened containers with identification labels intact.

D. Store window units and accessories on raised blocks to prevent moisture damage protected from exposure to weather and vandalism.

1.08 FIELD MEASUREMENTS

A. Verify field measurements prior to fabrication.

1.09 COORDINATION

A. Section 01 30 00 - Administrative Requirements: Requirements for coordination.

B. Coordinate work with adjacent materials specified in other Sections and as indicated on Drawings and approved shop drawings.

C. Coordinate installation of anchorages for security windows. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors. Deliver such items to Project site in time for installation.

1.10 WARRANTY

A. Furnish manufacturer's standard warranty document, executed by an authorized CSE Corp. officer in which manufacturer agrees to repair or replace windows, drawers and air curtains that fail in materials or workmanship within specified warranty period. This warranty is in addition to, and not a limitation of other rights Owner has under the contract.

1. Warranty Period:

a. One year parts and labor from date of installation.

2. Failures include, but are not limited to, the following:

a. Deterioration of metals, metal finishes, and other materials beyond normal weathering and use.

b. Structural failures including deflections exceeding 1/4 inch.

c. Failure of welds.

d. Excessive air leakage.

e. Faulty operation of sliding window hardware.

f. Faulty operation of transaction drawers.

g. Faulty operation of air curtains.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Aluminum Extrusions: ASTM B221/B221M. Provide alloy and temper recommended by manufacturer for strength, corrosion resistance, and application of required finish, but not less than 22,000-psi (150-MPa) ultimate tensile strength and not less than 0.125 inch (3.2 mm) thick at any location for main frame and sash members.

B. Steel Plates, Shapes, and Bars: ASTM A36/A36M.

C. Metallic-Coated Steel Sheet:

1. ASTM A653/A653M, CS (Commercial Steel), Type B; with G90 (Z275) zinc (galvanized) coating designation.

2. AMS5511, steel, corrosion-resistant, sheet, strip, and plate, 19Cr - 9.5Ni (304L), solution heat treated.

3. AMS5513, steel, corrosion-resistant, sheet, strip, and plate 19cr 9.2Ni (SAE 30304) solution heat treated.

D. Stainless-Steel Sheet, Strip, Plate, and Flat Bars:

1. ASTM A666, austenitic stainless steel, Type 304, stretcher-leveled standard of flatness.

2. ASME SA-240/SA-240M, chromium and chromium-nickel stainless steel plate, sheet, and strip for general applications.

E. Concealed Bolts: ASTM A307, Grade A unless otherwise indicated.

F. Cast-in-Place Anchors in Concrete: Fabricated from corrosion-resistant materials capable of sustaining, without failure, a load equal to four times the load imposed, as determined by testing per ASTM E488, conducted by a qualified testing agency.

1. Threaded or wedge type; galvanized ferrous castings, either ASTM A27/A27M cast steel or ASTM A 47/A 47M malleable iron. Provide bolts, washers, and shims as required; hot-dip galvanized per ASTM A153/A153M or ASTM F2329.

G. Embedded Plate Anchors: Fabricated from steel shapes and plates, minimum 3/16 inch (4.8 mm) thick; with minimum 1/2-inch- (12.7-mm-) diameter, headed studs welded to back of plate.

H. Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy welded.

I. Bituminous Paint: Cold-applied, asphalt-mastic paint complying with SSPC-Paint 12 requirements except containing no asbestos; formulated for 30-mil (0.76-mm) thickness per coat.

J. Sealants: For sealants required within fabricated security windows, provide type recommended by manufacturer for joint size and movement. Sealant shall remain permanently elastic, nonshrinking, and nonmigrating.

K. Gaskets: For gaskets required within fabricated security windows, provide type recommended by manufacturer for joint size and movement. Gaskets shall remain permanently elastic, nonshrinking, and nonmigrating.

2.02 WINDOW COMPONENTS

A. Comply with requirements of UL listing for ballistics-resistance levels as specified.

B. Glass:

1. Tempered Glass: 1/4 inch thick.
2. Insulated Glass: 5/8 inch thick total thickness.

C. Bullet Resistant Glazing:

1. Model QSBR - Sheet:
    a. LEXGARD® MP-750 Level 1 - 9mm or .38 Special caliber rated.

D. Track/Slides: Stainless steel ball bearing slides all windows and drawers.

E. Miscellaneous Glazing Materials: Provide material, size, and shape complying with requirements of glass manufacturers, and with a proven record of compatibility with surfaces contacted in installation:

1. Cleaners, Primers, and Sealers: Type recommended by sealant or gasket manufacturer.
2. Setting Blocks: Elastomeric material with a Type A Shore durometer hardness of 85, plus or minus 5.
3. Spacers: Elastomeric blocks or continuous extrusions with a Type A Shore durometer hardness required by glass manufacturer to maintain glass lites in place for installation indicated.
4. Edge Blocks: Elastomeric material of hardness needed to limit glass lateral movement (side walking).

F. Flashing.

G. Welding Materials.

H. Anchors, Clips, and Window Accessories: Stainless steel; hot-dip, zinc-coated steel or iron, of sufficient strength to withstand design pressure indicated.

2.03 BULLET RESISTANT EXTERIOR AND INTERIOR SECURITY PASS, SERVICE AND TELLER WINDOW UNITS

A. Manufacturers:

1. CSE Corp.
    a. Model CSE-QS-TS-619S-MAX:
        1) Rough Opening: 50 inches (w) x 53.5 inches (h).
        2) Glazing:

a) Level 1 Bullet Resistant.

3) Finish: Bronze.

2.04 GLAZING

A. Bullet Resistant Glazing:

1. LEXGARD® MP-750 Laminate: 3-ply, clear, extruded polycarbonate and acrylic sheet of the following construction:

a. 1/8 inch polycarbonate sheet with high AR abrasion-resistant surface.

b. Polyurethane bonding interlayer.

c. 1/2 inch Acrylic sheet.

d. Polyurethane bonding interlayer.

e. 1/8 inch polycarbonate sheet with high AR abrasion-resistant surface.

f. Material shall have a flexural strength of at least 13,500 psi per ASTM D790; and shall have AR (high performance abrasion-resistant) surfaces for enhanced service life and resistance to marring. Material shall conform to applicable code as a CC-1 rated Approved Light Transmitting Plastic.

g. Level 1 - 9mm or .38 Special caliber rated.

2.05 INTERCOM AND TALK THROUGH

A. Manufacturers - Intercom:

1. Model: Audio Authority Model 1580S and 1580HS Series:

B. Manufacturers - Talk Through:

1. CSE Corp.

a. Model: 6 inch Round Heavy Stainless Steel Level 3 Speak-Thru.

2. Substitutions: [In accordance with Contract Documents.

2.06 SECURITY DEVICE ACCESSORIES

A. Security Lock Bar: Sliding aluminum lock bar.

B. Auto-Lock Handle: Stainless steel constructed auto-locking handle on all self-closing sliders to prevent intrusion.

C. Electric Auto-Lock: 3/4 inch stainless steel pin automatically locks behind electric window units to prevent intrusion.

D. Hook-Lock: Maximum security Adams Rite style hook lock on all sliders.

2.07 ELECTRICAL REQUIREMENTS

A. Electrical Windows: 120V / 60 Hz, 20 amp branch circuit, single phase. Conforms to UL Standard 325 – Certified to CAN/CSA C22.2 NO. 247.

B. Non-Heated Air Curtains: 120V / 60 Hz, 15 amp branch circuit, single phase. Conforms to UL Standard 1995 – CSA C22.2.

2.08 FABRICATION

A. Fabricate window to dimensions indicated on Drawings.

B. Fabricate windows, and accessories to provide a complete system for assembly of components and anchorage of window, drawers and accessories.

1. Provide units that are reglazable from the secure side without dismantling the nonsecure side of framing.

2. Prepare security windows for glazing unless preglazing at the factory is indicated.

C. Provide weep holes and internal water passages for exterior security windows to conduct infiltrating water to the exterior.

D. Rigidly fit and secure joints and corners with internal reinforcement. Make joints and connections flush, hairline, and weatherproof. Fully weld corners.

1. Fabricate framing with manufacturer's standard, internal opaque armoring in thicknesses required for security windows to comply with ballistics-resistance performance indicated.

E. Prepare components with reinforcement required for hardware.

F. Welding: To greatest extent possible, weld before finishing and in concealed locations to minimize distortion or discoloration of finish. Remove weld spatter and welding oxides from exposed surfaces by descaling or grinding.

G. Metal Protection: Separate dissimilar metals to protect against galvanic action by painting contact surfaces with primer or by applying sealant or tape recommended by manufacturer for this purpose.

H. Factory-cut openings in glazing for speaking apertures.

I. Preglazed Fabrication: Preglaze window units at factory, where required for applications indicated.

J. Weather Stripping: Factory applied.

K. Bottom Sills: Stainless steel construction, no bottom tracks and no pop rivets.

L. Handles: Stainless steel, manufacturer's standard profile and finish.

2.09 SHOP FINISHING

A. Aluminum Finishes:

1. Mill Finished Aluminum Surfaces: manufacturer's standard finish.

2. Color Anodized Aluminum Surfaces: AA-M10C22A34 non-specular as fabricated mechanical finish, medium matte chemical finish, and Architectural Class II 0.7 mils (018 mm) bronze or black coating.

a. Conform to AAMA 611.

B. Concealed Steel Items: Galvanized in accordance with ASTM A123 to thickness grade 85, 2.0 oz/sq ft.

C. Stainless Steel: 304 Stainless Steel with NAAMM No. 3 finish.

D. Apply bituminous paint to concealed metal surfaces in contact with cementitious or dissimilar materials.

E. Touch-Up Primer for Galvanized Steel Surfaces: SSPC Paint 20 zinc rich.

F. Extent of Finish:

1. Apply factory coating to all surfaces exposed at completed assemblies.
2. Apply finish to surfaces cut during fabrication so that no natural aluminum is visible in completed assemblies, including joint edges.
3. Apply touch-up materials recommended by coating manufacturer for field application to cut ends and minor damage to factory applied finish.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Section 01 30 00 - Administrative Requirements: Verification of existing conditions before starting work

B. Verify construction is ready to receive Products specified in this section.

C. Verify rough openings are correct size and in correct location.

D. Examine roughing-in for embedded and built-in anchors to verify actual locations of security window connections before security window installation.

E. Inspect built-in and cast-in anchor installations, before installing security windows, to verify that anchor installations comply with requirements. Prepare inspection reports.

1. Remove and replace anchors where inspections indicate that they do not comply with specified requirements. Reinspect after repairs or replacements are made.
2. Perform additional inspections to determine compliance of replaced or additional work. Prepare anchor inspection reports.

F. For glazing materials whose orientation is critical for performance, verify installation orientation.

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

3.02 PREPARATION

A. Furnish frames and anchors to other sections as required for installation in surrounding partition and casework construction.

3.03 INSTALLATION

A. Install Products in accordance with manufacturer’s instructions.

B. Align Products plumb, level and square.

C. Rigidly secure Products to adjacent supporting construction.

D. Glaze windows in accordance with manufacturer’s instructions and Section 088000.

E. Seal perimeter joints in accordance with Section 079009.

F. Connect electrical components to power source.

G. Protection: Where dissimilar metals will contact each other, protect against galvanic action by painting contact surfaces with primer or by applying sealant or tape recommended in writing by manufacturer for this purpose. Where aluminum will

contact concrete or masonry, protect against corrosion by painting contact surfaces with bituminous paint.

3.04 ADJUSTING

A. Section 01 70 00 - Execution and Closeout Requirements: Requirements for adjusting.

B. Adjust horizontal-sliding, transaction security windows to provide a tight fit at contact points for smooth operation and a secure enclosure.

C. Adjust transaction drawers to provide a tight fit at contact points for smooth operation, weathertight, and secure enclosure.

D. Remove and replace defective work, including security windows that are warped, bowed, or otherwise unacceptable.

3.05 CLEANING AND PROTECTION

A. Section 01 70 00 - Execution and Closeout Requirements: Requirements for cleaning.

B. Remove protective material from factory finished surfaces.

C. Wash surfaces by method recommended and acceptable to sealant and window manufacturer; rinse, and wipe surfaces clean.

D. Remove excess sealant by moderate use of mineral spirits or other solvent acceptable to sealant and window manufacturer.

E. Clean metal and glass surfaces to polished condition.

1. Lubricate sliding security window hardware.

2. Lubricate transaction drawer hardware.

F. Provide temporary protection to ensure that security windows are without damage at time of Substantial Completion.

3.06 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain operable security windows.

END OF SECTION