

REBID - City of San Juan Police Building Expansion **Addendum NO. 02** CSP# 25-008-05-01 To: Plans and Specifications dated April 01st 2025 Date: 04/29/2025 Project No. 24002



NOTICE TO PROPOSERS

a. Receipt of this Addendum shall be acknowledged on the Proposal Form.

b. This Addendum forms part of the Contract documents for the above-referenced project and shall be incorporated integrally in addition to that.

c. Each proposer shall make necessary adjustments and submit his proposal with full knowledge of all modifications, clarifications, and supplemental data included therein. Where provisions of the following supplemental data differ from those of the original Contract Documents, this Addendum shall govern.

d. This addendum is generally separated into sections for convenience; however, all contractors, subcontractors, material men, and other parties shall be responsible for reading the entire addendum. The failure to list an item or items in all affected sections of this addendum does not relieve any party affected from performing as per instructions, providing that the information is set forth one time in this addendum.

e. Inclusion of a substitute manufacturer(s) does not relieve the manufacturer/awarded bidder of the substituted item from the responsibility to further confirm that any materials provided for inclusion in the project by the named manufacturer to the awarded proposer, completely meet or exceed the published specification. provided. If materials are submitted during construction that do not meet or exceed the specifications provided the manufacturer/awarded bidder shall provide a product which complies or exceeds these requirements at no additional cost. Compliance of submitted products with specifications remains at the discretion of the Architect.

GENERAL

QUESTIONS

Item No. G01:

Window T1 Non contact visitation window states "Glazing as specified" however the glazing is never specified.

Response:

Division 08 – Spec Section 08 88 53 – Security Glazing

PROJECT MANUAL

Project Manual, Division 08 – Section 08 88 53, Replace this section in its entirety. Replace with revised Section 08 88 53 Security Glazing (refer to attached).

PLANS

END OF ADDENUM NO. 02

SECTION 08 88 53

SECURITY GLAZING

PART 1 - GENERAL

1.01 SUMMARY

A. Section includes bullet-resistant glass-clad polycarbonate.

1.02 COORDINATION

A. Coordinate glazing channel dimensions to provide necessary bite on security glazing, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances.

1.03 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.
 - 1. Review and finalize construction schedule, and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - 2. Review temporary protection requirements for security glazing during and after installation.

1.04 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Security Glazing Samples: For each type of security glazing; 12 inches square.
- C. Security Glazing Schedule: List security glazing types and thicknesses for each size opening and location. Use same designations indicated on Drawings. Indicate coordinated dimensions of security glazing and construction that receives security glazing, including clearances and glazing channel dimensions.

1.05 INFORMATIONAL SUBMITTALS

A. Product Test Reports: For each type of security glazing, for tests performed by a qualified testing agency.

1.06 INFORMATIONAL SUBMITTALS

- A. Product Test Reports: For each type of bullet-resistant glazing indicated as bullet-resistant, for tests performed by a qualified testing agency.
- B. Installer Certificates: Certification that installation of bullet-resistant glazing complies with bullet-resistant requirements.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Protect security glazing and glazing materials according to manufacturer's written instructions. Prevent damage from condensation, temperature changes, direct exposure to sun, or other causes.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Source Limitations for Security Glazing: Obtain security glazing from single source from single manufacturer using the same types of lites, plies, interlayers, and spacers for each security glazing type indicated.

2.02 PERFORMANCE REQUIREMENTS

- A. General: Installed security glazing shall withstand security-related loads and forces without damage to the glazing beyond that allowed by referenced standards.
- B. Provide bullet-resistant glazing listed and labeled by a qualified testing agency for bullet-resistant rating of Level 3, based on testing according to UL 752.
- C. Safety Glazing: Where safety glazing is indicated, provide glazing that complies with 16 CFR 1201, Category II.

2.03 SECURITY GLAZING, GENERAL

- A. Glazing Publications: Comply with published recommendations of security glazing and glazing material manufacturers and organizations below unless more stringent requirements are indicated. Refer to these publications for glazing terms not otherwise defined in this Section or in referenced standards.
 - 1. GANA Publications: "Laminated Glazing Reference Manual" and "Glazing Manual."
- B. Safety Glazing Labeling: Where safety glazing is indicated, permanently mark glazing with certification label of the Safety Glazing Certification Council or another certification agency acceptable to authorities having jurisdiction. Label shall indicate manufacturer's name, type of glazing, glass thickness, and safety glazing standard with which glazing complies.

2.04 GLASS PRODUCTS

- A. Float Glass: ASTM C 1036, Type I, Quality-Q3, Class I (clear) unless otherwise indicated.
- B. Heat-Treated Float Glass: ASTM C 1048; Type I; Quality-Q3; Class I (clear) unless otherwise indicated; of kind and condition indicated.
 - 1. Fabrication Process: By horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as installed unless otherwise indicated.
 - 2. For fully tempered float glass, comply with requirements for Kind FT.
 - 3. For uncoated glass, comply with requirements for Condition A.

2.05 LAMINATED GLASS

- A. Laminated Glass: ASTM C 1172. Use materials that have a proven record of no tendency to bubble, discolor, or lose physical and mechanical properties after fabrication and installation.
 - 1. Interlayer Thickness: Provide thickness not less than that indicated and as needed to comply with requirements.
 - 2. Interlayer Color: Clear unless otherwise indicated.

2.06 GLAZING SEALANTS

- A. General:
 - 1. Compatibility: Provide glazing sealants that are compatible with one another and with other materials they contact, including security glazing, seals of insulating security glazing and air-gap security glazing, and glazing channel substrates, under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience.
 - 2. Suitability: Comply with sealant and security glazing manufacturers' written instructions for selecting glazing sealants suitable for applications indicated and for conditions existing at time of installation.

3. Colors of Exposed Glazing Sealants: As selected by Architect from manufacturer's full range.

2.07 MISCELLANEOUS GLAZING MATERIALS

- A. General: Provide products of material, size, and shape complying with referenced glazing standard, requirements of manufacturers of security glazing and other glazing materials for application indicated, and with a proven record of compatibility with surfaces contacted in installation.
- B. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufacturer.
- C. Setting Blocks: Elastomeric material with a Shore, Type A durometer hardness of 85, plus or minus 5.
- D. Spacers: Elastomeric blocks or continuous extrusions of hardness required by security glazing manufacturer to maintain security glazing lites in place for installation indicated.
- E. Edge Blocks: Elastomeric material of hardness needed to limit security glazing lateral movement (side walking).
- F. Cylindrical Glazing Sealant Backing: ASTM C 1330, Type O (open-cell material), of size and density to control glazing sealant depth and otherwise produce optimum glazing sealant performance.

2.08 FABRICATION OF SECURITY GLAZING

A. Fabricate security glazing in sizes required to fit openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with written instructions of product manufacturer and referenced glazing publications, to comply with system performance requirements.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine framing for security glazing, with Installer present, for compliance with the following:
 - 1. Manufacturing and installation tolerances, including those for size, squareness, and offsets at corners.
 - 2. Presence and functioning of weep system.
 - 3. Minimum required face or edge clearances.
 - 4. Minimum required bite.
 - 5. Effective sealing between joints of framing members.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

A. Clean glazing channels and other framing members receiving security glazing immediately before glazing. Remove coatings not firmly bonded to substrates.

3.03 GLAZING, GENERAL

- A. Comply with combined written instructions of manufacturers of security glazing, sealants, gaskets, and other glazing materials unless more stringent requirements are indicated, including those in referenced glazing publications.
- B. Protect edges of security glazing from damage during handling and installation. Remove damaged security glazing from Project site and legally dispose of off Project site. Damaged

security glazing includes units with edge or face damage or other imperfections that, when installed, could weaken security glazing and impair performance and appearance.

- C. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction testing.
- D. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications unless otherwise required by glazing unit manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.
- E. Do not exceed edge pressures stipulated by security glazing manufacturers for installing lites.
- F. Provide spacers for security glazing lites where the length plus width is larger than 50 inches.
 - 1. Locate spacers directly opposite each other on both inside and outside faces of security glazing. Install correct size and spacing to preserve required face clearances unless gaskets and glazing tapes are used that have demonstrated ability to maintain required face clearances and to comply with performance requirements.
 - 2. Provide 1/8-inch minimum bite of spacers on glazing lites and use thickness equal to sealant width. With glazing tape, use thickness slightly less than final compressed thickness of tape.
- G. Provide edge blocking where indicated or needed to prevent security glazing from moving sideways in glazing channel, as recommended in writing by security glazing manufacturer and according to requirements in referenced glazing publications.
- H. Set security glazing in each series with uniform pattern, draw, bow, and similar characteristics.

3.04 TAPE GLAZING

- A. Position tapes on fixed stops so that, when compressed by security glazing, their exposed edges are flush with or protrude slightly above sightline of stops.
- B. Install tapes continuously, but not necessarily in one continuous length. Do not stretch tapes to make them fit opening.
- C. Cover vertical framing joints by applying tapes to heads and sills first and then to jambs. Cover horizontal framing joints by applying tapes to jambs and then to heads and sills.
- D. Place joints in tapes at corners of opening with adjoining lengths butted together, not lapped. Seal joints in tapes with compatible sealant approved by tape manufacturer.
- E. Do not remove release paper from tape until just before each glazing unit is installed.
- F. Apply heel bead of elastomeric sealant.
- G. Center security glazing in openings on setting blocks and press firmly against tape by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings.
- H. Apply cap bead of elastomeric sealant over exposed edge of tape.

3.05 GASKET GLAZING (DRY)

- A. Cut compression gaskets to lengths recommended by gasket manufacturer to fit openings exactly, with allowance for stretch during installation.
- B. Insert soft compression gasket securely in place between glazing unit and frame or fixed stop, so it is securely in place with joints miter cut and bonded together at corners.
- C. Installation with Drive-in Wedge Gaskets: Center security glazing in openings on setting blocks and press firmly against soft compression gasket by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications

at corners and work toward centers of openings. Compress gaskets to produce a weathertight seal without developing bending stresses in security glazing. Seal gasket joints with sealant recommended by gasket manufacturer.

- D. Installation with Pressure-Glazing Stops: Center security glazing in openings on setting blocks and press firmly against soft compression gasket. Install dense compression gaskets and pressure-glazing stops, applying pressure uniformly to compression gaskets. Compress gaskets to produce a weathertight seal without developing bending stresses in security glazing. Seal gasket joints with sealant recommended by gasket manufacturer.
- E. Install gaskets so they protrude past face of glazing stops.

3.06 CLEANING AND PROTECTION

- A. Immediately after installation remove nonpermanent labels and clean surfaces.
- B. Protect security glazing from contact with contaminating substances resulting from construction operations, including weld splatter. Examine glass surfaces adjacent to or below exterior concrete and other masonry surfaces at frequent intervals during construction, but not less than once a month, for buildup of dirt, scum, alkaline deposits, or stains.
 - 1. If, despite such protection, contaminating substances do come into contact with security glazing, remove substances immediately as recommended in writing by security glazing manufacturer. Remove and replace security glazing that cannot be cleaned without damage.
- C. Wash security glazing on both exposed surfaces in each area of Project not more than four days before date scheduled for inspections that establish date of Substantial Completion. Wash security glazing as recommended in writing by security glazing manufacturer.

3.07 GLASS-CLAD POLYCARBONATE SECURITY GLAZING SCHEDULE

- A. Clear Symmetrical Glass-Clad Polycarbonate.
 - 1. Bullet Resistance: Level 3 according to UL 752.
 - 2. Maximum Overall Unit Thickness: As required to meet performance specified, approximately 1-1/4 inch.
- B. Clear Forced Entry Resistant Glass-Clad Polycarbonate (Glass Type GP-11):
 - 1. Detention Security Grade: Grade 3 according to ASTM F1915, 20 min. Forced Entry.
 - a. HP White Level II.
 - 2. Nominal Thickness: 11/16-inch.
 - 3. Description: two heat or chemically strengthened clear glass sheets, laminated together with bonding interlayers to nominal 3/8 inch, single-ply polycarbonate core.
 - Basis of Design: Design is based on Global Security Glazing 11/16" Secur-Tem_Poly No. 2116. Subject to compliance with requirements, provide named product or LTI Smart Glass, Inc. GCPHG 1116.

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- C. Opaque Forced-Entry Resistant, Fire Resistive Glazing (Glass Type FRP-25P):
 - Detention Security Grade: Grade 3 according to ASTM F1915, 20 min Forced Entry a. HP White Level II
 - 2. Comply with UL 9/10C to provide glazing product listed for 45 min.
 - 3. Nominal Thickness: 1-9/16 inch.
 - 4. Description: Two heat or chemically strengthened clear glass sheets, laminated together with opaque intumescent bonding interlayers to one, 3 mm strengthened glass sheet, and a nominal 3/8 IN, single-ply polycarbonate core.
 - 5. Basis of Design: Design is based on Global Security Glazing Ultimax 45 SP2116G. Subject to compliance with requirements, provide named product or comparable product approved by Architect.
- D. Glass Type GP-12:
 - 1. Clear
 - 2. Nominal 3/4 IN thickness
 - 3. Two heat or chemically strengthened clear glass sheets, laminated together with bonding interlayers to two-ply polycarbonate core.
 - 4. ASTM F1915, Grade 2, 40 MIN Forced Entry
 - 5. HP White Level III
 - 6. Base: SP 019 by Global Security Glazing
 - 6. Optional: GCPHG1316 by LTI

END OF SECTION