11/30/23

To: All Potential Respondents
From: Construction Procurement
Subject: RFQ 932000-01 DOC NCCF Powerhouse Window Replacement

Request for Quote

The State of Iowa is conducting a Request for Quote for a contractor to replacement the 13 windows and HM storefront doors at the Powerhouse building at North Central Correctional Facility. See Exhibit B for additional detail.
All work must be done on-site at North Central Correctional Facility and all personnel must pass a background check. Information required for the background check includes full name, birthdate, state driver's license # or State id#, and social security number.

Construction is expected to start on May 9th, 2024 and be substantially complete by July 1st, 2024.

The Project is located at 313 Lanedale, Rockwell City, Iowa 50579.

Please email your quote using the Exhibit A pricing form to construction.procurement@iowa.gov prior to 1/9/24 at 2:00 PM (CT).

All questions regarding this solicitation must be received by email by 2:00 PM (CT) ON 12/19/23.

A Pre-Bid Meeting will be held December 12, 2023 at 11:00 AM at 313 Lanedale, Rockwell City, IA 50579.

Contract Terms and Conditions

This procurement will result in a Consensus 802 Agreement. By submitting a quote, respondent agrees to the contract terms and conditions available at (choose one of the following):
https://das.iowa.gov/sites/default/files/procurement/pdf/ConsensusDoc802.pdf

Performance Bond

Respondent must provide a Performance and Payment Bond in accordance with Section 10.8 of Consensus 802 Agreement.
Insurance Requirements
See sample Certificate of Insurance attached as Exhibit D for required limits, additional insured requirements, and waiver of subrogation.
Attachments:
Exhibit A Pricing Form
Exhibit B Scope of Work
Exhibit C Facility Work Requirements
Exhibit D Certificate of Insurance
Exhibit E Proposed Schedule

Exhibit A Pricing Form
DOC NCCF Powerhouse Window Replacement
North Central Correctional Facility
Request for Quote RFQ932000-01

Due Tuesday, 1/9/24 at 2:00 PM (CT)

Please submit this completed form with your Quote to:
Attention: Michael Bradbury
Iowa Department of Administrative Services - Central Procurement
construction.procurement@iowa.gov

This form is to be completed in ink or typewritten.
Only pricing on this form or an exact copy of this form will be accepted.
Pricing Form shall be signed by an officer of the firm with authority to bind Respondent to Contract.

Respondent acknowledges receipt of the following Addenda (if issued) which are part of the RFQ documents:

Addendum No. _____Date_____

Addendum No._____ Date _____

Freight Terms: FOB Destination, Freight Pre-Paid

The State reserves the right to reject any or all quotes without penalty and to waive minor deficiencies and informalities if, in the judgement of the State, it's best interests will be served.

Respondents must submit pricing for all scope of work items indicated per the attached Exhibit B. The State reserves the right to evaluate pricing. The State intends to make one Award for this project.

Lump Sum Price for NCCF Powerhouse Window Replacement including an allowance of $2,000.00 for replacing the blocking at the existing window heads, jambs, and sills where needed. The allowance will be tracked on a T&M basis.

(Labor and Material(s)) Total $_____

Please note all pricing is to be delivered price. That is why we are stating FOB Destination, Freight Pre-Paid.

Signature _____

Name (Print) _____

Title _____

Company _____

Address _____

City, St., Zip _____

Phone #_____ **Fax #**_____

E-mail _____

Exhibit B Scope of Work

DOC NCCF Powerhouse Window Replacement
North Central Correctional Facility
Request for Quote RFQ932000-01

Due Tuesday, 1/9/24 at 2:00 PM (CT)

Base Bid: The 13 windows and storefront entrance will be removed, and the opening will be re-prepped to receive new windows and a new HM storefront door. Review the drawings and specifications for additional information. An allowance of $2,000.00 will be carried by the contractor to replace any damaged blocking within the wall cavity once the window is removed. The damaged blocking will be replaced with mortar.

1. The Contractor's Work includes all labor, supervision, materials, equipment, services, supplies, tools, facilities, transportation, hoisting, storage, receiving, licenses, inspections, certifications, overhead, profit, or other items required or reasonably inferable to properly and timely perform and complete all work and services to be performed by the Contractor pursuant to this Agreement. Unless specifically stated otherwise, incidental work required to accomplish the work of this Bid Package shall be included the bid. This would include, but not be limited to, temporary facilities, protection of the work, security of equipment, materials, and work in progress, etc. Contractor's Work shall be performed in accordance with the Drawings and Specifications.
2. Contractor is responsible for all labor and equipment to unload, account for all material delivered, stock, and delivery for this scope of work. Storage and delivery of materials and equipment at the Site shall be permitted only to the extent approved in advance by the Construction Manager, and if anything so stored obstructs the progress of any portion of the work, it shall be promptly removed or relocated by the Contractor without reimbursement.
3. On site supervision by Prime Contractor at all times work by that contractor or their subcontractors/suppliers is taking place.
4. Provide all temporary facilities required for this scope of work including trailer, trailer power, telephone, secured storage, temporary power for work, temporary and task lighting for work, temporary toilets, dumpsters, etc. as determined necessary by Contractor. Coordinate location of trailers, material storage and utility lines with Construction Manager and facility staff. Limited space is available, and permission to bring any such facility or excess materials on to the site shall be approved by the Construction Manager.
5. Contractor shall provide all equipment and tools for Contractor's own cleanup. Clean up shall be done at end of every shift or more frequently if required for the Contractor to perform their work, for other Contractors to perform their work, as required by the Owner's operations, and at the discretion of the Construction Manager.
6. All turf, landscaping, and subgrade disturbances caused by equipment traffic or other activities related to the Contractor's scope shall be repaired or restored to proper conditions by the responsible contractor.
7. Protect adjacent existing building elements from damage from Scope of work. Repair existing building elements damaged during Contractor's Scope of work.
8. Contractor will ensure that the Powerhouse building is secure at the end of each workday. Any window or door that is removed must be replaced and secured the same day or be secured at the end of the day using plywood and wood framing.

<u>Specifications</u>

- 00 0107 Seals and Signatures
- 00 0110 Table of Contents
- 02 4100 Selective Demolition

- 06 1000 Rough Carpentry
- 07 2100 Thermal Insulation
- 07 9200 Joint Sealants
- 08 1113 Hollow Metal Doors and Frames
- 08 4313 Aluminum-Framed Storefronts
- 08 7100 Door Hardware
- 08 8000 Glazing
- 09 9113 Exterior Painting

Drawings

- Cover Page
- A1.01 Demo & New Elevations, Details, & Legends

PROJECT MANUAL FOR:

9320.00 DOC NCCF POWER HOUSE WINDOW REPLACMENT
313 LANEDALE
ROCKWELL CITY, IOWA 50579

CONSTRUCTION DOCUMENTS
DIVISIONS 00 – 09
14 NOVEMBER 2023

MA Architecture
1201 Keosauqua Way, Suite 101
Des Moines, IA 50309

Project No. _____
Set Number: _____

SECTION 00 01 07

SEALS AND SIGNATURES

I hereby certify that the portion of this technical submission described below was prepared by me or under my direct supervision and responsible charge. I am a duly Registered Architect under the laws of the State of Iowa.

Name: Melinda Aust

Signature 11/14/2023 Date

Registration Expires: 6-30-2024 Iowa Reg No. 05898

Pages or sheets covered by this seal: Architectural Series

Divisions or Sections: Division 01 through 07

END OF SECTION

SECTION 00 01 10
TABLE OF CONTENTS

PROCUREMENT AND CONTRACTING REQUIREMENTS
DIVISION 00 -- PROCUREMENT AND CONTRACTING REQUIREMENTS
00 01 07 Seals and Signatures
00 01 10 Table of Contents

SPECIFICATIONS
DIVISION 01 -- GENERAL REQUIREMENTS

DIVISION 02 -- EXISTING CONDITIONS
02 41 00 Selective Demolition

DIVISION 03 -- CONCRETE (NOT USED)

DIVISION 04 -- MASONRY (NOT USED)

DIVISION 05 -- METALS (NOT USED)

DIVISION 06 -- WOOD, PLASTICS, AND COMPOSITES
06 10 00 Rough Carpentry

DIVISION 07 -- THERMAL AND MOISTURE PROTECTION
07 21 00 Thermal Insulation
07 92 00 Joint Sealants

DIVISION 08 – OPENINGS
08 11 13 Hollow Metal Doors and Frames
08 43 13 Aluminum-Framed Storefronts
08 71 00 Door Hardware
08 80 00 Glazing

DIVISION 09 -- FINISHES
09 91 13 Exterior Painting

DIVISION 10 -- SPECIALTIES (NOT USED)

DIVISION 11 – EQUIPMENT (NOT USED)

DIVISION 12 -- FURNISHINGS (NOT USED)

DIVISION 13 -- SPECIAL CONSTRUCTION (NOT USED)

DIVISION 21 -- 28 (NOT USED)

DIVISION 31 – 33 (NOT USED)

END OF SECTION

SECTION 02 41 00
SELECTIVE DEMOLITION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Selective demolition of building elements for alteration purposes.

1.02 DEFINITIONS

A. Demolition: Dismantle, raze, destroy or wreck any building or structure or any part thereof.

B. Remove: Detach or dismantle items from existing construction and dispose of them off site, unless items are indicated to be salvaged or reinstalled.

C. Remove and Salvage: Detach or dismantle items from existing construction in a manner to prevent damage. Clean, package, label and deliver salvaged items to Owner in ready-for-reuse condition.

D. Remove and Reinstall: Detach or dismantle items from existing construction in a manner to prevent damage. Clean and prepare for reuse and reinstall where indicated.

E. Existing to Remain: Designation for existing items that are not to be removed and that are not otherwise indicated to be salvaged or reinstalled.

1.03 REFERENCE STANDARDS

A. 29 CFR 1926 - U.S. Occupational Safety and Health Standards.

B. NFPA 241 - Standard for Safeguarding Construction, Alteration, and Demolition Operations.

1.04 SUBMITTALS

A. Demolition Plan: Submit demolition plan as required by OSHA and local AHJs.
   1. Indicate extent of demolition, removal sequencing, bracing and shoring, and location and construction of barricades and fences.
   2. Indicate locations of items and materials scheduled for salvage and reuse in the project.

1.05 FIELD CONDITIONS

A. Spaces immediately adjacent to demolition area will be occupied. Conduct demolition so operations of occupied spaces will not be disrupted.
   1. Provide not less than 72 hours' notice of activities that will affect operations of adjacent occupied spaces.
   2. Maintain access to existing walkways, exits, and other facilities used by occupants of adjacent spaces.
      a. Do not close or obstruct walkways, exits, or other facilities used by occupants of adjacent spaces without written permission from authorities having jurisdiction.

B. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.

C. On-site storage or sale of removed items or materials is not permitted.

D. Arrange demolition schedule so as not to interfere with Owner's on-site operations or operations of adjacent occupied spaces.

PART 2 PRODUCTS -- NOT USED

PART 3 EXECUTION

3.01 DEMOLITION

A. Remove portions of existing buildings as indicated in the Demolition Drawings.

3.02 GENERAL PROCEDURES AND PROJECT CONDITIONS

A. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.
   1. Obtain required permits.

2. Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed; do not allow worker or public access within range of potential collapse of unstable structures.
3. Provide, erect, and maintain temporary barriers and security devices.
4. Use physical barriers to prevent access to areas that could be hazardous to workers or the public.
5. Conduct operations to minimize effects on and interference with adjacent structures and occupants.
6. Do not close or obstruct roadways or sidewalks without permits from authority having jurisdiction.
7. Conduct operations to minimize obstruction of public and private entrances and exits. Do not obstruct required exits at any time. Protect persons using entrances and exits from removal operations.
8. Obtain written permission from owners of adjacent properties when demolition equipment will traverse, infringe upon, or limit access to their property.

B. Do not begin removal until receipt of notification to proceed from Owner.

C. Do not begin removal until built elements to be salvaged or relocated have been removed.

D. Protect existing structures and other elements to remain in place and not removed.
1. Provide bracing and shoring.
2. Prevent movement or settlement of adjacent structures.
3. Stop work immediately if adjacent structures appear to be in danger.

E. Hazardous Materials:
1. If hazardous materials are discovered during removal operations, stop work and notify Architect and Owner; hazardous materials include regulated asbestos containing materials, lead, PCBs, and mercury.

3.03 SELECTIVE DEMOLITION FOR ALTERATIONS

A. Drawings showing existing construction and utilities are based on casual field observation only.
1. Verify construction and utility arrangements are as indicated.
2. Report discrepancies to Architect before disturbing existing installation.
3. Beginning of demolition work constitutes acceptance of existing conditions that would be apparent upon examination prior to starting demolition.

B. Maintain weatherproof exterior building enclosure, except for interruptions required for replacement or modifications; prevent water and humidity damage.

C. Remove existing work as indicated and required to accomplish new work.
1. Remove rotted wood, corroded metals, and deteriorated masonry and concrete; replace with new construction indicated.
2. Remove items indicated on drawings.
3. Salvage items indicated on drawings.

D. Protect existing work to remain.
1. Prevent movement of structure. Provide shoring and bracing as required.
2. Perform cutting to accomplish removal work neatly and as specified for cutting new work.
3. Repair adjacent construction and finishes damaged during removal work.
4. Patch to match new work.

3.04 DEBRIS AND WASTE REMOVAL

A. Remove debris, junk, and trash from site.

B. Leave site in clean condition, ready for subsequent work.

C. Clean up spillage and wind-blown debris from public and private lands.

END OF SECTION

SECTION 06 10 00
ROUGH CARPENTRY

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Preservative treated wood materials.

B. Concealed wood blocking, nailers, and supports.

1.02 REFERENCE STANDARDS

A. AWPA U1 - Use Category System: User Specification for Treated Wood.

B. PS 20 - American Softwood Lumber Standard.

1.03 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide technical data on panel products.

1.04 DELIVERY, STORAGE, AND HANDLING

A. General: Cover wood products to protect against moisture. Support stacked products to prevent deformation and to allow air circulation.

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies.
   1. Species: Douglas Fir-Larch, unless otherwise indicated.
   2. If no species is specified, provide species graded by the agency specified; if no grading agency is specified, provide lumber graded by grading agency meeting the specified requirements.
   3. Grading Agency: Grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee at www.alsc.org, and who provides grading service for the species and grade specified; provide lumber stamped with grade mark unless otherwise indicated.
   4. Lumber of other species or grades is acceptable provided structural and appearance characteristics are equivalent to or better than products specified.

B. Engineered wood products containing added urea-formaldehyde are not permitted.

2.02 DIMENSION LUMBER FOR CONCEALED APPLICATIONS

A. Sizes: Nominal sizes as indicated on drawings, S4S.

B. Moisture Content: S-dry or MC19.

C. Fire-retardant treated.

D. Miscellaneous Framing, Blocking, Nailers, Grounds, and Furring:
   1. Lumber: S4S, No. 1 or Construction Grade.
   2. Boards: Standard or No. 3.

2.03 ACCESSORIES

A. Fasteners and Anchors:
   1. Metal and Finish: Stainless steel for high humidity and preservative-treated wood locations, unfinished steel elsewhere.
   2. Anchors: as follows:
      a. Toggle bolt type for anchorage to hollow masonry.
      b. Expansion shield and lag bolt type for anchorage to solid masonry or concrete.
      c. Bolt or ballistic fastener for anchorages to steel.
   3. Wood Screws: ASME B18.6.1.
   4. Lag Bolts: ASME B18.2.1

5. Power Driven Fasteners: Fastener systems with an evaluation report acceptable to authorities having jurisdiction, based on ACC-ES AC70.

2.04 FACTORY WOOD TREATMENT

A. Treated Lumber and Plywood: Comply with requirements of AWPA U1 - Use Category System for wood treatments determined by use categories, expected service conditions, and specific applications.
   1. Fire-Retardant Treated Wood: Mark each piece of wood with producer's stamp indicating compliance with specified requirements.
   2. Preservative-Treated Wood: Provide lumber and plywood marked or stamped by an ALSC-accredited testing agency, certifying level and type of treatment in accordance with AWPA standards.

B. Preservative Treatment:
   1. Preservative Pressure Treatment of Lumber Above Grade: AWPA U1, Use Category UC3B, Commodity Specification A using waterborne preservative.
      a. Kiln dry lumber after treatment to maximum moisture content of 19 percent.
      b. Treat lumber exposed to weather.
      c. Treat lumber in contact with masonry or concrete.
      d. Treat lumber less than 18 inches above grade.
      e. Treat lumber in other locations as indicated.
   2. Preservative Pressure Treatment of Plywood Above Grade: AWPA U1, Use Category UC2 and UC3B, Commodity Specification F using waterborne preservative.
      a. Kiln dry plywood after treatment to maximum moisture content of 19 percent.
      b. Treat plywood in contact with masonry or concrete.
      c. Treat plywood less than 18 inches above grade.
      d. Treat plywood in other locations as indicated.

PART 3 EXECUTION

3.01 PREPARATION

A. Coordinate installation of rough carpentry members specified in other sections.

3.02 INSTALLATION - GENERAL

A. Select material sizes to minimize waste.

B. Reuse scrap to the greatest extent possible; clearly separate scrap for use on site as accessory components, including: shims, bracing, and blocking.

C. Where treated wood is used on interior, provide temporary ventilation during and immediately after installation sufficient to remove indoor air contaminants.

3.03 BLOCKING, NAILERS, AND SUPPORTS

A. Provide framing and blocking members as indicated or as required to support finishes, fixtures, specialty items, and trim.

B. Provide the following specific nonstructural framing and blocking:
   1. Existing window and door openings.

3.04 CLEANING

A. Waste Disposal:
   1. Comply with applicable regulations.
   2. Do not burn scrap on project site.
   3. Do not burn scraps that have been pressure treated.
   4. Do not send materials treated with pentachlorophenol, CCA, or ACA to co-generation facilities or “waste-to-energy” facilities.

B. Do not leave wood, shavings, sawdust, etc. on the ground or buried in fill.

C. Prevent sawdust and wood shavings from entering the storm drainage system.

END OF SECTION

SECTION 07 21 00
THERMAL INSULATION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Foamed-in-Place insulation for
   1. Filling exterior wall crevices.
   2. Filling perimeter window and door shim spaces.
   3. Other locations indicated.

1.02 REFERENCE STANDARDS

A. ASTM C518 - Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.

1.03 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide data on product characteristics, performance criteria, and product limitations.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Protect insulation materials from physical damage and from deterioration due to moisture, soiling, and other sources. Store inside and in a dry location. Comply with manufacturer's written instructions for handling, storing, and protecting during installation.

1.05 FIELD CONDITIONS

A. Do not install insulation adhesives when temperature or weather conditions are detrimental to successful installation.

B. Do not leave combustible insulations exposed; encapsulate all combustible insulations with noncombustible thermal barrier as required by IBC Chapter 26.

PART 2 PRODUCTS

2.01 FOAMED-IN-PLACE INSULATION

A. Foamed-In-Place Insulation: Polyurethane type, single component spray foam system, reduced expansion spray foam system; semi-rigid; closed cell.
   1. Application: Fill shim spaces in window and entrance framing.
   2. Thermal Value (R), Minimum: 4.50 per inch, when tested in accordance with ASTM C 518.
   3. Density: 1.3 lb/cu ft, when tested in accordance with ASTM D 1622.
   4. Flame Spread: 20, when tested in accordance with UL 1715 Fire Test.
   5. Smoke Development: 25, when tested in accordance with UL 1715 Fire Test.
   6. Product:
      a. Convenience Products: “Touch 'n Seal No-Warp Foam”.
      b. Hilti: “CF 812 Window and Door Pro Low-Pressure Filler Foam”.
      c. Approved equivalent.

B. Primer: Compatible liquid primer recommended by foam manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that substrate, adjacent materials, and insulation materials are dry and that substrates are ready to receive insulation and adhesive.

B. Verify substrate surfaces are flat, free of honeycomb, fins, irregularities, or materials or substances that may impede adhesive bond.

C. Verify satisfactory application of related flashings. Do not cover until any required testing or inspections have been completed.

D. Verify substrate materials are compatible with insulation & adhesives.

3.02 PREPARATION

A. Mask and protect adjacent surfaces from over spray or dusting of spray foam insulation.

B. Apply any recommended primers in accordance with manufacturer's instructions.

3.03 PROTECTION

A. Do not permit installed insulation to be damaged prior to its concealment.

END OF SECTION

SECTION 07 92 00
JOINT SEALANTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Nonsag gunnable joint sealants.

B. Joint backings and accessories.

1.02 RELATED REQUIREMENTS

A. Section 08 1113 - Hollow Metal Doors and Frames

B. Section 08 71 00 - Door Hardware: Setting exterior door thresholds in sealant.

1.03 REFERENCE STANDARDS

A. ASTM C661 - Standard Test Method for Indentation Hardness of Elastomeric-Type Sealants by Means of a Durometer.

B. ASTM C920 - Standard Specification for Elastomeric Joint Sealants.

C. ASTM C1193 - Standard Guide for Use of Joint Sealants.

D. ASTM C1248 - Standard Test Method for Staining of Porous Substrate by Joint Sealants.

E. ASTM C1311 - Standard Specification for Solvent Release Sealants.

F. ASTM C1330 - Standard Specification for Cylindrical Sealant Backing for Use with Cold Liquid-Applied Sealants.

G. SCAQMD 1168 - Adhesive and Sealant Applications.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Submit manufacturer's technical datasheets for each product to be used; include the following:
   1. Physical characteristics, including movement capability, VOC content, hardness, cure time, and color availability.
   2. List of backing materials approved for use with the specific product.
   3. Substrates that product is known to satisfactorily adhere to and with which it is compatible.
   4. Substrates the product should not be used on.
   5. Substrates for which use of primer is required.
   6. Substrates for which laboratory adhesion and/or compatibility testing is required.

C. Product Data for Accessory Products: Submit manufacturer's technical data sheet for each product to be used, including physical characteristics, installation instructions, and recommended tools.

D. Color Cards for Selection: Where sealant color is not specified, submit manufacturer's color cards showing standard colors available for selection.

E. Installation Log: Submit filled-out log for each length or instance of sealant installed.

F. Executed warranty.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum ten years documented experience.

1.06 FIELD CONDITIONS

A. Do not proceed with installation of joint sealants under the following conditions:
   1. When ambient and substrate temperature conditions are outside limits permitted by joint sealant manufacturer or below 40 deg F.
   2. When substrates are wet.

3. Where joint widths are less than those allowed by joint sealant manufacturer for applications indicated.
4. Where contaminants capable of interfering with adhesion have not yet been removed from joint substrates.

B. Maintain temperature and humidity recommended by the sealant manufacturer during and after installation.

1.07 WARRANTY

A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.

B. Manufacturer Warranty: Provide 2-year manufacturer warranty for installed sealants and accessories that fail to achieve a watertight seal, exhibit loss of adhesion or cohesion, or do not cure. Complete forms in Owner's name and register with manufacturer.
1. Silicone sealant: 20 years.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Nonsag Sealants:
1. Adhesives Technology Corporation: www.atcepoxy.com.
2. Bostik Inc: www.bostik-us.com.
3. Chem Link, Inc: www.chemlinkinc.com.
4. Dow Corning Corporation: www.dowcorning.com/construction/sle.
5. Hilti, Inc: www.us.hilti.com/#sle.
6. Master Builders Solutions by BASF: www.master-builders-solutions.basf.us/en-us/#sle.
7. Momentive Performance Materials, Inc (formerly GE Silicones): www.momentive.com/sle.
8. Pecora Corporation: www.pecora.com/#sle.
9. Sherwin-Williams Company: www.sherwin-williams.com.
10. Sika Corporation: www.usa-sika.com.
11. Tremco Commercial Sealants & Waterproofing: www.tremcosealants.com/#sle.
12. W.R. Meadows, Inc: www.wrmeadows.com/sle.
13. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 JOINT SEALANTS - GENERAL

A. Sealants and Primers: Provide products having lower volatile organic compound (VOC) content than indicated in SCAQMD 1168.

2.03 NONSAG JOINT SEALANTS

A. Type - General Purpose Exterior Sealant - Non-Staining Silicone Sealant: 1, Grade NS, Uses M, G, O and A; not expected to withstand continuous water immersion or traffic.
1. Movement Capability: Plus and minus 50 percent, minimum.
2. Nonstaining to Porous Stone: Nonstaining to light-colored natural stone when tested in accordance with ASTM C1248.
3. Dirt Pick-Up: Reduced dirt pick-up compared to other silicone sealants.
4. Hardness Range: 15 to 35, Shore A, when tested in accordance with ASTM C661.
5. Color: To be selected by Architect from manufacturer's standard range.
6. Products:
   a. Dow; DOWSIL 790 Silicone Building Sealant: www.dow.com/#sle.
   b. Momentive Performance: Silpruf
   c. Tremco Commercial Sealants & Waterproofing; Spectrem 1: www.tremcosealants.com/#sle.
   d. Tremco Commercial Sealants & Waterproofing; Spectrem 2: www.tremcosealants.com/#sle.
7. Applications:
   a. Wall expansion and control joints.
   b. Joints between door, window, and other frames and adjacent construction.
   c. Joints between different exposed materials.

d. Openings below ledge angles in masonry.
e. Control, expansion, and soft joints in masonry.
f. Joints between concrete and other materials.

B. Type - Moving Joint Sealant - Non-Curing Butyl Sealant: Solvent-based; 1; single component, non-sag, non-skinning, non-hardening, non-bleeding; vapor-impermeable; intended for fully concealed applications.
1. Products:
a. C.R. Laurence; CRL 777 Butyl Rubber Sealant.
b. Pecora Corporation; Pecora BA-98 Non-Skinning Butyl Sealant: www.pecora.com/#sle.
c. Tremco, Inc.; General Purpose Butyl Sealant.
d. Substitutions: See Section 01 60 00 - Product Requirements.
2. Applications:
a. Lap Joints in Sheet Metal Fabrications
b. Lap Joints between Manufactured Metal Panels

2.04 ACCESSORIES

A. Sealant Backing Rod, Closed-Cell Type:
1. Cylindrical flexible sealant backings complying with ASTM C1330 Type C.
2. Size: 25 to 50 percent larger in diameter than joint width.
3. Products:
a. Nomaco, Inc; HBR: www.nomaco.com/#sle.
b. Substitutions: See Section 01 60 00 - Product Requirements.

B. Backing Tape: Self-adhesive polyethylene tape with surface that sealant will not adhere to and recommended by tape and sealant manufacturers for specific application.

C. Masking Tape: Self-adhesive, nonabsorbent, nonstaining, removable without adhesive residue, and compatible with surfaces adjacent to joints and sealants.

D. Joint Cleaner: Noncorrosive and nonstaining type, type recommended by sealant manufacturer; compatible with joint forming materials.

E. Primers: Type recommended by sealant manufacturer to suit application; nonstaining.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that substrates and joints are ready to receive work.

B. Verify that backing materials are compatible with sealants.

C. Verify that backer rods are of the correct size.

3.02 PREPARATION

A. Remove loose materials and foreign matter that could impair adhesion of sealant.

B. Clean joints, and prime as necessary, in accordance with manufacturer's instructions.

C. Perform preparation in accordance with manufacturer's instructions and ASTM C1193.

D. Mask elements and surfaces adjacent to joints from damage and disfigurement due to sealant work; be aware that sealant drips and smears may not be completely removable.

3.03 INSTALLATION

A. Install this work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.

B. Provide joint sealant installations complying with ASTM C1193.

C. Measure joint dimensions and size joint backers to achieve the following, unless otherwise indicated:
1. Width/depth ratio of 2:1.
2. Neck dimension no greater than 1/3 of the joint width.

3. Surface bond area on each side not less than 75 percent of joint width.

D. Install bond breaker backing tape where backer rod cannot be used.

E. Install sealant free of air pockets, foreign embedded matter, ridges, and sags, and without getting sealant on adjacent surfaces.

F. Do not install sealant when ambient temperature is outside manufacturer's recommended temperature range, or will be outside that range during the entire curing period, unless manufacturer's approval is obtained and instructions are followed.

G. Do not seal the following types of joints.
1. Intentional weepholes in masonry.
2. Joints indicated to be treated with manufactured expansion joint cover or some other type of sealing device.
3. Joints where sealant is specified to be provided by manufacturer of product to be sealed.
4. Joints where installation of sealant is specified in another section.
5. Joints between suspended panel ceilings/grid and walls.
6. Through-penetrations in sound-rated assemblies that are also fire-rated assemblies.

H. Nonsag Sealants: Tool surface concave, unless otherwise indicated; remove masking tape immediately after tooling sealant surface.

3.04 CLEANING

A. Clean adjacent soiled surfaces.

3.05 PROTECTION OF FINISHED WORK

A. Protect sealants until cured.

END OF SECTION

SECTION 08 11 13
HOLLOW METAL DOORS AND FRAMES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Non-fire-rated hollow metal doors and frames.

B. Accessories, including glazing and matching panels.

1.02 RELATED REQUIREMENTS

A. Section 06 10 00 - Rough Carpentry: Blocking.

B. Section 07 92 00 - Joint Sealants.

C. Section 08 71 00 - Door Hardware.

D. Section 08 80 00 - Glazing: Glass for doors.

E. Section 09 91 13 - Exterior Painting: Field painting.

1.03 ABBREVIATIONS AND ACRONYMS

A. ANSI: American National Standards Institute.

B. NAAMM: National Association of Architectural Metal Manufacturers.

C. NFPA: National Fire Protection Association.

D. SDI: Steel Door Institute.

E. UL: Underwriters Laboratories.

1.04 DEFINITIONS

A. Minimum thickness: Minimum thickness of base metal without coatings according to NAAMM-HMMA 803 or SDI A250.8.

1.05 REFERENCE STANDARDS

A. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design.

B. ANSI/SDI A250.4 - Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors, Frames and Frame Anchors.

C. ANSI/SDI A250.6 - Recommended Practice for Hardware Reinforcing on Standard Steel Doors and Frames.

D. ANSI/SDI A250.8 - Specifications for Standard Steel Doors and Frames (SDI-100).

E. ANSI/SDI A250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames.

F. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

G. ASTM A1008/A1008M - Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Required Hardness, Solution Hardened, and Bake Hardenable.

H. ASTM A1011/A1011M - Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength.

I. BHMA A156.115 - Hardware Preparation In Steel Doors And Steel Frames.

J. ICC A117.1 - Accessible and Usable Buildings and Facilities.

K. NAAMM HMMA 830 - Hardware Selection for Hollow Metal Doors and Frames.

L. NAAMM HMMA 831 - Hardware Locations for Hollow Metal Doors and Frames.

M. NAAMM HMMA 840 - Guide Specifications For Receipt, Storage and Installation of Hollow Metal Doors and Frames.

N. NAAMM HMMA 861 - Guide Specifications for Commercial Hollow Metal Doors and Frames.

O. SDI 117 - Manufacturing Tolerances for Standard Steel Doors and Frames.

1.06 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Materials and details of design and construction, hardware locations, reinforcement type and locations, anchorage and fastening methods, and finishes.

C. Shop Drawings: Details of each opening, showing elevations, glazing, frame profiles, and any indicated finish requirements.

D. Schedule: Provide a schedule of hollow metal work prepared by or under the supervision of supplier, using same reference numbers for details and openings as those on Drawings. Coordinate with final Door Hardware Schedule.

E. Installation Instructions: Manufacturer's published instructions, including any special installation instructions relating to this project.

1.07 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum ten years documented experience.

B. Maintain at project site copies of reference standards relating to installation of products specified.

1.08 DELIVERY, STORAGE, AND HANDLING

A. Comply with NAAMM HMMA 840 or ANSI/SDI A250.8 (SDI-100) in accordance with specified requirements.

B. Protect with resilient packaging; avoid humidity build-up under coverings; prevent corrosion and adverse effects on factory applied painted finish.

C. Store hollow metal work vertically under cover at Project site with head up. Place on minimum 4 inch high wood blocking. Provide minimum 1/4 inch space between each stacked door to permit air circulation.

1.09 WARRANTY

A. Manufacturer warrants that products will be free from defects in material and workmanship for a period of 1 year from the date of Substantial Completion.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Exterior Hollow Metal Doors and Frames:
   1. Ceco or Curries, an Assa Abloy Group company: www.assaabloydss.com.
   2. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 PERFORMANCE REQUIREMENTS

A. Requirements for Hollow Metal Doors and Frames:
   1. Steel Sheet: Comply with one or more of the following requirements; galvannealed steel complying with ASTM A653/A653M, cold-rolled steel complying with ASTM A1008/A1008M, or hot-rolled pickled and oiled (HRPO) steel complying with ASTM A1011/A1011M, commercial steel (CS) Type B, for each.
   2. Accessibility: Comply with ICC A117.1 and ADA Standards.
   3. Door Top Closures: Flush end closure channel, with top and door faces aligned.
   4. Door Edge Profile: Manufacturers standard for application indicated.
   5. Typical Door Face Sheets: Flush. Smooth, seamless, joints mitered, interlocked, welded and ground smooth.
   6. Glazed Lights: Non-removable stops on non-secure side; sizes and configurations as indicated on drawings. Style: Manufacturers standard.

7. Hardware Preparations, Selections and Locations: Comply with NAAMM HMMA 830 and NAAMM HMMA 831 or BHMA A156.115 and ANSI/SDI A250.8 (SDI-100) in accordance with specified requirements.
    a. Steel Door and Frame Reinforcing:
        1) Minimum 7 gauge steel of equivalent thread depth for hinges.
        2) Minimum 12 gauge steel for other hardware.
8. Zinc Coating for Typical Interior and/or Exterior Locations: Provide metal components zinc-coated (galvanized) and/or zinc-iron alloy-coated (galvannealed) by the hot-dip process in accordance with ASTM A653/A653M, with manufacturer's standard coating thickness, unless noted otherwise for specific hollow metal doors and frames.
    a. Based on SDI Standards: Provide at least A40/ZF120 (galvannealed) when necessary, coating not required for typical interior door applications, and at least A60/ZF180 (galvannealed) for corrosive locations.

B. Hollow Metal Panels (where indicated): Same construction, performance, and finish as doors.

C. Combined Requirements: If a particular door and frame unit is indicated to comply with more than one type of requirement, comply with the specified requirements for each type; for instance, an exterior door that is also indicated as being sound-rated must comply with the requirements specified for exterior doors and for sound-rated doors; where two requirements conflict, comply with the most stringent.

2.03 HOLLOW METAL DOORS

A. Door Finish: Factory primed and field finished.

B. Exterior Doors: Thermally insulated.
1. Based on SDI Standards: ANSI/SDI A250.8 (SDI-100).
    a. Level 3 - Extra Heavy-duty.
    b. Physical Performance Level A, 1,000,000 cycles; in accordance with ANSI/SDI A250.4.
    c. Model 1 - Full Flush.
    d. Door Face Metal Thickness: 16 gage, 0.053 inch, minimum.
    e. Zinc Coating: A60/ZF180 galvannealed coating; ASTM A653/A653M.
2. Core Material: Polyurethane, 1.8 lbs/cu ft minimum density.
3. Door Thermal Resistance: R-Value of 8.7, minimum, for installed thickness of polyurethane.
4. Air Infiltration: less than 0.1 cfm/sf measured in accordance with ASTM EE283/ NFRM 400-2014.
5. Must use with thermally broken frame and thermal saddle to achieve above values.
6. Door Thickness: 1-3/4 inches, nominal.
7. Weatherstripping: Refer to Section 08 71 00.

2.04 HOLLOW METAL FRAMES

A. Comply with standards and/or custom guidelines as indicated for corresponding door in accordance with applicable door frame requirements.

B. Frame Finish: Factory primed and field finished.

C. General:
1. Comply with the requirements of grade specified for corresponding door.
    a. ANSI A250.8 Level 3 door and Doors over 4’-0” wide: 14 gauge frames.
    b. Other doors: 16 gauge.
2. Face Width: 2 inches, unless otherwise indicated.
3. Frame Profile: Double rabbet.
4. Hospital / Terminated Stops: not required
5. Knock-down frames are prohibited, unless approved by Architect for use.

D. Exterior Door Frames: Full profile/continuously welded type.
1. Galvanizing: Components hot-dipped zinc-iron alloy-coated (galvannealed) in accordance with ASTM A653/A653M, with A40/ZF120 coating.

2. Frame Metal Thickness: 14 gage, 0.067 inch, minimum.
3. Provide thermal anchors, and use with energy efficient door and thermal saddle.
4. U-Factor: 0.45.
5. Weatherstripping: Separate, see Section 08 71 00.

E. Transom Bars: Fixed, of profile same as jamb and head.

F. Frames Wider than 48 inches: Reinforce with steel channel fitted tightly into frame head, flush with top.

2.05 FINISHES

A. Primer: Rust-inhibiting, complying with ANSI/SDI A250.10, door manufacturer's standard.

B. Bituminous Coating: Cold-applied asphalt mastic, compounded for 15 mil, 0.015 inch dry film thickness (DFT) per coat; provide inert-type noncorrosive compound free of asbestos fibers, sulfur components, and other deleterious impurities.

2.06 ACCESSORIES

A. Frame Anchors - General: ASTM A591/A591M, Commercial Steel (CS), 40Z coating designation; mill phosphatized.
1. For Anchors Built into Exterior Walls: Steel sheet complying with ASTM A1008/A1008M or ASTM A1011/A1011M, hot-dip galvanized according to ASTM A153/A153M, Class B.

B. Jamb Anchors: Fabricated of same material as frames:
1. Masonry-Wall Type: Provide one of the following to suit frame size:
a. Adjustable wire anchors, not less than 0.167 inch diameter by 8-1/2 inches long.
b. T-shaped anchors, not less than 0.042 inch (18 gage) thick, with corrugated or perforated straps not less than 2 inches wide by 10 inches long.
c. Locate anchors not more than 18 inches from top and bottom of frame. Space anchors not more than 32 inches on centers and as follows:
1) Two anchors per jamb up to 60 inches high.
2) Three anchors per jamb from 60 to 90 inches high.
3) Four anchors per jamb from 90 to 120 inches high.
4) Four anchors per jamb plus 1 additional anchor per jamb for each 24 inches or fraction thereof above 120 inches high.

C. Floor Anchors: Formed from same material as frames, welded to bottom of jambs and mullions with not less than 4 spot welds, not less than 0.0428 inch (18 gage) thick, clip-type anchors, with two holes to receive fasteners, terminating bottom of frames at finish floor surface.

D. Glazing: As specified in Section 08 80 00.

E. Removable Stops: Formed sheet steel, rectangular, mitered corners; prepared for countersink style tamper proof screws.

F. Temporary Frame Spreaders: Provide for factory- or shop-assembled frames.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting work.

B. Verify that opening sizes and tolerances are acceptable.

C. Verify that finished walls are in plane to ensure proper door alignment.

3.02 PREPARATION

A. Coat inside of non-rated frames to be installed in concrete, masonry or to be grouted, with bituminous coating 1/16-inch thick, prior to installation.

3.03 INSTALLATION

A. Install doors and frames in accordance with approved shop drawings and manufacturer's instructions and related requirements of specified door and frame standards or custom guidelines indicated.

1. Set frames accurately in position, plumbed, aligned, and braced securely until permanent anchors are set. Provide floor anchors for each jamb and mullion that extends to floor, and secure with post-installed anchors or fasteners.
2. Coordinate frame jamb anchor placement with wall construction.
3. Where frames are fabricated in sections because of shipping or handling limitations, field splice at approved locations by welding face joint continuously; grind, fill, dress, and make splice smooth, flush, and invisible on exposed faces.
4. Install frames with removable glazing stops located on secure side of opening.
5. Check plumbness, squareness, and twist of frames as walls are constructed. Shim as necessary to comply with installation tolerances.

B. Coordinate frame anchor placement with wall construction.

C. Install door hardware as specified in Section 08 71 00.
1. Comply with recommended practice for hardware placement of doors and frames in accordance with ANSI/SDI A250.6 or NAAMM HMMA 861.

D. Comply with glazing installation requirements of Section 08 80 00.

E. Touch up damaged factory finishes.

3.04 FIELD-APPLIED FINISHES

A. Both Sides of Exterior Steel Doors and Frames: As specified in Section 09 91 13.

3.05 TOLERANCES

A. Clearances Between Door and Frame: Comply with related requirements of specified frame standards or custom guidelines indicated in accordance with SDI 117 or NAAMM HMMA 861.

B. Maximum Diagonal Distortion: 1/16 inch measured with straight edge, corner to corner.

3.06 ADJUSTING

A. Adjust for smooth and balanced door movement.

3.07 SCHEDULE

A. Refer to Door and Frame Schedule on the drawings.

END OF SECTION

SECTION 08 43 13
ALUMINUM-FRAMED STOREFRONTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Aluminum-framed storefront, with vision glass.

1.02 RELATED REQUIREMENTS

A. Section 07 92 00 - Joint Sealants: Sealing joints between frames and adjacent construction.

B. Section 08 80 00 - Glazing: Glass and glazing accessories.

1.03 REFERENCE STANDARDS

A. AAMA CW-10 - Care and Handling of Architectural Aluminum From Shop to Site.

B. AAMA 609 & 610 - Cleaning and Maintenance Guide for Architecturally Finished Aluminum (Combined Document).

C. AAMA 1503 - Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections.

D. AAMA 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix).

E. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

F. ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric).

G. ASTM E283/E283M - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.

H. ASTM E330/E330M - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordinate with installation of other components that comprise the exterior enclosure.

B. Preinstallation Meeting: Conduct a preinstallation meeting one week before starting work of this section; require attendance by all affected installers.

1.05 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide component dimensions, describe components within assembly, anchorage and fasteners, glass and infill, internal drainage details.

C. Shop Drawings: Indicate system dimensions, framed opening requirements and tolerances, affected related work, expansion and contraction joint location and details, and field welding required.

D. Samples: Submit two samples 12 by 12 inches in size illustrating finished aluminum surface, glass, glazing materials.

1.06 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in performing work of type specified and with at least ten years of documented experience.

B. Installer Qualifications: Company specializing in performing work of type specified and approved by manufacturer.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Handle products of this section in accordance with AAMA CW-10.

B. Protect finished aluminum surfaces with wrapping. Do not use adhesive papers or sprayed coatings that bond to aluminum when exposed to sunlight or weather.

1.08 FIELD CONDITIONS

A. Do not install sealants when ambient temperature is less than 40 degrees F. Maintain this minimum temperature during and 48 hours after installation.

1.09 WARRANTY

A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.

B. Correct defective Work within a five year period after Date of Substantial Completion.

C. Provide twenty year manufacturer warranty against excessive degradation of exterior finish. Include provision for replacement of units with excessive fading, chalking, or flaking.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Aluminum-Framed Storefronts:
1. EFCO Corporation; www.efcocorp.com.
2. Kawneer North America: www.kawneer.com/#sle.
3. Oldcastle BuildingEnvelope: www.oldcastlebe.com/#sle.
4. Pittco Architectural Metals Inc: www.pittcometals.com/#sle.
5. Tubelite, Inc: www.tubeliteinc.com/#sle.
6. United State Aluminum Corp; www.usaalum.com.
7. YKK AP America, Inc: www.ykkap.com/commercial/#sle.
8. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 ALUMINUM-FRAMED STOREFRONT

A. Aluminum-Framed Storefront: Factory fabricated, factory finished aluminum framing members with infill, and related flashings, anchorage and attachment devices.
1. Glazing Rabbet: For 1 inch insulating glazing.
2. Glazing Position: Centered (front to back).
3. Vertical Mullion Dimensions: 2 inches wide by 4-1/2 inches deep.
4. Finish: Superior performing organic coatings.
   a. Factory finish all surfaces that will be exposed in completed assemblies.
   b. Touch-up surfaces cut during fabrication so that no natural aluminum is visible in completed assemblies, including joint edges.
   c. Coat concealed metal surfaces that will be in contact with cementitious materials or dissimilar metals with bituminous paint.
5. Fabrication: Joints and corners flush, hairline, and weatherproof, accurately fitted and secured; prepared to receive anchors and hardware; fasteners and attachments concealed from view; reinforced as required for imposed loads.
6. Construction: Eliminate noises caused by wind and thermal movement, prevent vibration harmonics, and prevent "stack effect" in internal spaces.
7. System Internal Drainage: Drain to the exterior by means of a weep drainage network any water entering joints, condensation occurring in glazing channel, and migrating moisture occurring within system.
8. Expansion/Contraction: Provide for expansion and contraction within system components caused by cycling temperature range of 170 degrees F over a 12 hour period without causing detrimental effect to system components, anchorages, and other building elements.
9. Movement: Allow for movement between storefront and adjacent construction, without damage to components or deterioration of seals.
10. Perimeter Clearance: Minimize space between framing members and adjacent construction while allowing expected movement.
11. Air and Vapor Seal: Maintain continuous air barrier and vapor retarder throughout assembly, primarily in line with inside pane of glazing and heel bead of glazing compound.

B. Performance Requirements
   1. Wind Loads: Design and size components to withstand the specified load requirements without damage or permanent set, when tested in accordance with ASTM E330/E330M, using loads 1.5 times the design wind loads and 10 second duration of maximum load.
      a. Design Wind Loads: Comply with requirements of applicable code.
      b. Member Deflection: Limit member deflection to flexure limit of glass in any direction, with full recovery of glazing materials.
   2. Air Leakage: 0.06 cfm/sq ft maximum leakage of storefront wall area when tested in accordance with ASTM E283/E283M at 1.57 psf pressure difference.
   3. Condensation Resistance Factor of Framing: 50, minimum, measured in accordance with AAMA 1503.

2.03 COMPONENTS

A. Aluminum Framing Members: Tubular aluminum sections, thermally broken with interior section insulated from exterior, drainage holes and internal weep drainage system.
   1. Glazing Stops: Flush.

B. Glazing: See Section 08 80 00.

2.04 MATERIALS

A. Extruded Aluminum: ASTM B221 (ASTM B221M).

B. Fasteners: Stainless steel.

C. Exposed Flashings: Aluminum sheet, 20 gauge, 0.032 inch minimum thickness; finish to match framing members.

D. Concealed Flashings: Stainless steel, 26 gauge, 0.0187 inch minimum thickness.

E. Sill Flashing Sealant: Elastomeric, silicone or polyurethane, compatible with flashing material.

F. Glazing Gaskets: Type to suit application to achieve weather, moisture, and air infiltration requirements.

G. Glazing Accessories: See Section 08 80 00.

2.05 FINISHES

A. Superior Performing Organic Coatings System: Manufacturer's standard multi-coat superior performing organic coatings system complying with AAMA 2605, including at least 70 percent polyvinylidene fluoride (PVDF) resin, and at least 80 percent of aluminum extrusion and panels surfaces having minimum total dry film thickness (DFT) of 1.2 mils, 0.0012 inch.

B. Color: Black.

C. Touch-Up Materials: As recommended by coating manufacturer for field application.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify dimensions, tolerances, and method of attachment with other work.

B. Verify that storefront wall openings and adjoining water-resistive and/or air barrier seal materials are ready to receive work of this section.

3.02 INSTALLATION

A. Install wall system in accordance with manufacturer's instructions.

B. Attach to structure to permit sufficient adjustment to accommodate construction tolerances and other irregularities.

C. Provide alignment attachments and shims to permanently fasten system to building structure.

D. Align assembly plumb and level, free of warp or twist. Maintain assembly dimensional tolerances, aligning with adjacent work.

E. Provide thermal isolation where components penetrate or disrupt building insulation.

F. Install sill flashings. Turn up ends and edges; seal to adjacent work to form water tight dam.

G. Where fasteners penetrate sill flashings, make watertight by seating and sealing fastener heads to sill flashing.

H. Pack fibrous insulation in shim spaces at perimeter of assembly to maintain continuity of thermal barrier.

I. Install glass and infill panels using glazing method required to achieve performance criteria; see Section 08 80 00.

J. Touch-up minor damage to factory applied finish; replace components that cannot be satisfactorily repaired.

3.03 TOLERANCES

A. Maximum Variation from Plumb: 0.06 inch per 3 feet non-cumulative or 0.06 inch per 10 feet, whichever is less.

B. Maximum Misalignment of Two Adjoining Members Abutting in Plane: 1/32 inch.

3.04 ADJUSTING

A. Adjust operating hardware and sash for smooth operation.

3.05 CLEANING

A. Remove protective material from pre-finished aluminum surfaces.

B. Wash down surfaces with a solution of mild detergent in warm water, applied with soft, clean wiping cloths, and take care to remove dirt from corners and to wipe surfaces clean.

C. Upon completion of installation, thoroughly clean aluminum surfaces in accordance with AAMA 609 & 610.

3.06 PROTECTION

A. Protect installed products from damage until Date of Substantial Completion.

END OF SECTION

SECTION 08 71 00
DOOR HARDWARE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Hardware for hollow metal doors.

B. Thresholds.

C. Weatherstripping and gasketing.

1.02 RELATED REQUIREMENTS

A. Section 07 92 00 - Joint Sealants: Sealants for setting exterior door thresholds.

B. Section 08 11 13 - Hollow Metal Doors and Frames.

1.03 REFERENCE STANDARDS

A. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design.

B. BHMA (CPD) - Certified Products Directory.

C. BHMA A156.1 - Standard for Butts and Hinges.

D. BHMA A156.4 - Door Controls - Closers.

E. BHMA A156.5 - Cylinders and Input Devices for Locks.

F. BHMA A156.7 - Template Hinge Dimensions.

G. BHMA A156.13 - Mortise Locks & Latches Series 1000.

H. BHMA A156.16 - Auxiliary Hardware.

I. BHMA A156.21 - Thresholds.

J. BHMA A156.22 - Standard for Gasketing.

K. BHMA A156.115W - Hardware Preparation in Wood Doors with Wood or Steel Frames.

L. DHI (H&S) - Sequence and Format for the Hardware Schedule.

M. DHI (LOCS) - Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames.

N. ICC A117.1 - Accessible and Usable Buildings and Facilities.

O. NFPA 80 - Standard for Fire Doors and Other Opening Protectives.

P. NFPA 101 - Life Safety Code.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordinate the manufacture, fabrication, and installation of products that door hardware is installed on.

B. Sequence installation to ensure utility connections are achieved in an orderly and expeditious manner.

C. Preinstallation Meeting: Convene a preinstallation meeting one week prior to commencing work of this section; attendance is required by affected installers and the following:
   1. Architect.
   2. Installer's Architectural Hardware Consultant (AHC).
   3. Hardware Installer.
   4. Owner's Security Consultant or staff.

D. Furnish templates for door and frame preparation to manufacturers and fabricators of products requiring internal reinforcement for door hardware.

1.05 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Manufacturer's catalog literature for each type of hardware, marked to clearly show products to be furnished for this project, and includes construction details, material descriptions, finishes, and dimensions and profiles of individual components.

C. Shop Drawings - Door Hardware Schedule: Submit detailed listing that includes each item of hardware to be installed on each door. Use door numbering scheme as included in Contract Documents.
   1. Prepared by or under supervision of Architectural Hardware Consultant (AHC).
   2. Comply with DHI (H&S) using door numbers and hardware set numbers as indicated in construction documents.
   3. List groups and suffixes in proper sequence.
   4. Provide complete description for each door listed.
   5. Provide manufacturer name, product names, and catalog numbers; include functions, types, styles, sizes and finishes of each item.
   6. Include account of abbreviations and symbols used in schedule.

D. Maintenance Materials and Tools: Furnish the following for Owner's use in maintenance of project.
   1. See Section 01 60 00 - Product Requirements, for additional provisions.
   2. Tools: One set of each special wrench or tool applicable for each different or special hardware component, whether supplied by hardware component manufacturer or not.

1.06 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum three years of documented experience.

B. Installer Qualifications: Company specializing in performing work of the type specified for commercial door hardware with at least three years of documented experience.

C. Supplier Qualifications: Company with certified Architectural Hardware Consultant (AHC) to assist in work of this section.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Package hardware items individually; label and identify each package with door opening code to match door hardware schedule.

1.08 WARRANTY

A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.

B. Manufacturer's Warranty: Provide warranty against defects in material and workmanship for period indicated. Complete forms in Owner's name and register with manufacturer.
   1. Closers: Five years, minimum.
   2. Exit Devices: Three years, minimum.
   3. Locksets and Cylinders: Three years, minimum.
   4. Other Hardware: Two years, minimum.

PART 2 PRODUCTS

2.01 DESIGN AND PERFORMANCE CRITERIA

A. Provide specified door hardware as required to make doors fully functional, compliant with applicable codes, and secure to extent indicated.

B. Provide individual items of single type, of same model, and by same manufacturer.

C. Provide door hardware products that comply with the following requirements:
   1. Applicable provisions of federal, state, and local codes.
   2. Accessibility: ADA Standards and ICC A117.1.
   3. Applicable provisions of NFPA 101.
   4. Listed and certified compliant with specified standards by BHMA (CPD).
   5. Auxiliary Hardware: BHMA A156.16.
   6. Hardware Preparation for Wood Doors with Wood or Steel Frames: BHMA A156.115W.

D. Fasteners:
1. Provide fasteners of proper type, size, quantity, and finish that comply with commercially recognized standards for proposed applications.
a. Aluminum fasteners are not permitted.
b. Provide phillips flat-head screws with heads finished to match door surface hardware unless otherwise indicated.
2. Provide machine screws for attachment to reinforced hollow metal and aluminum frames.
a. Self-drilling (Tek) type screws are not permitted.
3. Provide stainless steel machine screws and lead expansion shields for concrete and masonry substrates.
4. Provide wall grip inserts for hollow wall construction.
5. Provide spacers or sex bolts with sleeves for through bolting of hollow metal doors and frames.
6. Fire-Rated Applications: Comply with NFPA 80.
a. Provide wood or machine screws for hinges mortised to doors or frames, strike plates to frames, and closers to doors and frames.
b. Provide steel through bolts for attachment of surface mounted closers, hinges, or exit devices to door panels unless proper door blocking is provided.
7. Concealed Fasteners: Do not use through or sex bolt type fasteners on door panel sides indicated as concealed fastener locations, unless otherwise indicated.

2.02 HINGES

A. Hinges: Comply with BHMA A156.1, Grade 1.
1. Butt Hinges: Comply with BHMA A156.1 and BHMA A156.7 for templated hinges.
a. Provide hinge width required to clear surrounding trim.
2. Provide hinges on every swinging door.
3. Provide ball-bearing hinges at each door with closer.
4. Provide following quantity of butt hinges for each door:
a. Doors up to 60 inches High: Two hinges.
b. Doors From 60 inches High up to 90 inches High: Three hinges.
c. Doors 90 inches High up to 120 inches High: Four hinges.

2.03 LOCK CYLINDERS

A. Lock Cylinders: Provide key access on outside of each lock, unless otherwise indicated.
1. Provide standard and small format interchangeable core (SFIC) type cylinders, Grade 1, with six-pin core in compliance with BHMA A156.5 at locations indicated.
2. Provide cylinders from same manufacturer as locking device.
3. Provide cams and/or tailpieces as required for locking devices.

2.04 MORTISE LOCKS

A. Mortise Locks: Comply with BHMA A156.13, Grade 1, Security, 1000 Series.
1. Latchbolt Throw: 3/4 inch, minimum.
2. Deadbolt Throw: 1 inch, minimum.
3. Backset: 2-3/4 inch unless otherwise indicated.
4. Strikes: Provide manufacturer's standard strike for each latchset or lockset with strike box and curved lip extending to protect frame in compliance with indicated requirements.
a. Finish: To match lock or latch.

2.05 CLOSERS

A. Closers: Comply with BHMA A156.4, Grade 1.
1. Type: Surface mounted to door.
2. Provide door closer on each exterior door.
3. At corridor entry doors, mount closer on room side of door.
4. At outswinging exterior doors, mount closer on interior side of door.

2.06 KICK PLATES

A. Kick Plates: Provide along bottom edge of push side of every door with closer, except aluminum storefront and glass entry doors, unless otherwise indicated.
   1. Size: 8 inch high by 2 inch less door width (LDW) on push side of door.

2.07 THRESHOLDS

A. Thresholds: Comply with BHMA A156.21.
   1. Provide threshold at each exterior door, unless otherwise indicated.
   2. Type: Flat surface.
   3. Material: Aluminum.
   4. Threshold Surface: Fluted horizontal grooves across full width.
   5. Field cut threshold to profile of frame and width of door sill for tight fit.
   6. Provide non-corroding fasteners at exterior locations.

2.08 WEATHERSTRIPPING AND GASKETING

A. Weatherstripping and Gasketing: Comply with BHMA A156.22.
   1. Head and Jamb Type: Adjustable.
   2. Door Sweep Type: Encased in retainer.
   3. Material: Aluminum, with brush weatherstripping.

2.09 FINISHES

A. Finishes: Identified in Drawings on Hardware Groups.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that doors and frames are ready to receive this work; labeled, fire-rated doors and frames are properly installed, and dimensions are as indicated on shop drawings.

3.02 INSTALLATION

A. Install hardware in accordance with manufacturer's instructions and applicable codes.

B. Use templates provided by hardware item manufacturer.

C. Door Hardware Mounting Heights: Distance from finished floor to center line of hardware item. As indicated in following list; unless noted otherwise in Door Hardware Schedule or on drawings.
   1. For Steel Doors and Frames: Install in compliance with DHI (LOCS) recommendations.
   2. Mounting heights in compliance with ADA Standards.

D. Set exterior door thresholds with full-width bead of elastomeric sealant at each point of contact with floor providing a continuous weather seal; anchor thresholds with stainless steel countersunk screws.

3.03 FIELD QUALITY CONTROL

A. Perform field inspection and testing under provisions of Section 01 40 00 - Quality Requirements.

B. Provide an Architectural Hardware Consultant (AHC) to inspect installation and certify that hardware and installation has been furnished and installed in accordance with manufacturer's instructions and as specified.

3.04 ADJUSTING

A. Adjust work under provisions of Section 01 70 00 - Execution and Closeout Requirements.

B. Adjust hardware for smooth operation.

C. Adjust gasketing for complete, continuous seal; replace if unable to make complete seal.

3.05 CLEANING

A. Clean finished hardware in accordance with manufacturer's written instructions after final adjustments have been made.

B. Clean adjacent surfaces soiled by hardware installation.

C. Replace items that cannot be cleaned to manufacturer's level of finish quality at no additional cost.

3.06 PROTECTION

A. Protect finished Work under provisions of Section 01 70 00 - Execution and Closeout Requirements.

B. Do not permit adjacent work to damage hardware or finish.

3.07 SCHEDULE - SEE SCHEDULE ON DRAWINGS

END OF SECTION

SECTION 08 80 00
GLAZING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Insulating glass units.

B. Glazing compounds.

1.02 RELATED REQUIREMENTS

A. Section 07 92 00 - Joint Sealants: Sealants for other than glazing purposes.

B. Section 08 11 13 - Hollow Metal Doors and Frames: Glazed lites in doors.

C. Section 08 43 13 - Aluminum-Framed Storefronts: Glazing provided as part of storefront assembly.

1.03 REFERENCE STANDARDS

A. 16 CFR 1201 - Safety Standard for Architectural Glazing Materials.

B. ANSI Z97.1 - American National Standard for Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test.

C. ASTM C864 - Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers.

D. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass.

E. ASTM C1193 - Standard Guide for Use of Joint Sealants.

F. ASTM C1376 - Standard Specification for Pyrolytic and Vacuum Deposition Coatings on Flat Glass.

G. ASTM E1300 - Standard Practice for Determining Load Resistance of Glass in Buildings.

H. ASTM E2190 - Standard Specification for Insulating Glass Unit Performance and Evaluation.

I. GANA (GM) - GANA Glazing Manual.

J. GANA (SM) - GANA Sealant Manual.

K. NFRC 100 - Procedure for Determining Fenestration Product U-factors.

L. NFRC 200 - Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence.

M. NFRC 300 - Test Method for Determining the Solar Optical Properties of Glazing Materials and Systems.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data on Insulating Glass Unit Glazing Types: Provide structural, physical and environmental characteristics, size limitations, special handling and installation requirements.

C. Product Data on Glazing Compounds and Accessories: Provide chemical, functional, and environmental characteristics, limitations, special application requirements, and identify available colors.

D. Samples: Submit two samples 12 by 12 inch in size of each type of insulated glass units showing coloration and thermal spacer design.

E. Warranty Documentation: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.05 QUALITY ASSURANCE

A. Perform Work in accordance with 1 for glazing installation methods.

B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum five years of documented experience.

C. Installer Qualifications: Company specializing in performing work of the type specified and approved by manufacturer.

1.06 FIELD CONDITIONS

A. Do not install glazing when ambient temperature is less than 40 degrees F.

B. Maintain minimum ambient temperature before, during and 24 hours after installation of glazing compounds.

C. Store products in manufacturer's unopened packaging until ready for installation.

1.07 WARRANTY

A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.

B. Insulating Glass Units: Provide a ten (10) year manufacturer warranty to include coverage for seal failure, interpane dusting or misting, including replacement of failed units.

PART 2 PRODUCTS

2.01 PERFORMANCE REQUIREMENTS - EXTERIOR GLAZING ASSEMBLIES

A. Provide type and thickness of exterior glazing assemblies to support assembly dead loads, and to withstand live loads caused by positive and negative wind pressure acting normal to plane of glass.
   1. Design Pressure: Calculated in accordance with applicable codes.
   2. Comply with ASTM E1300 for design load resistance of glass type, thickness, dimensions, and maximum lateral deflection of supported glass.
   3. Provide glass edge support system sufficiently stiff to limit the lateral deflection of supported glass edges to less than 1/175 of their lengths under specified design load.
   4. Glass thicknesses listed are minimum.

B. Weather-Resistive Barrier Seals: Provide completed assemblies that maintain continuity of building enclosure water-resistive barrier, vapor retarder, and/or air barrier.
   1. To utilize inner pane of multiple pane insulating glass units for continuity of vapor retarder and/or air barrier seal.
   2. To maintain a continuous vapor retarder and/or air barrier throughout glazed assembly from glass pane to heel bead of glazing sealant.

C. Thermal and Optical Performance: Provide exterior glazing products with performance properties as indicated. Performance properties are in accordance with manufacturer's published data as determined with the following procedures and/or test methods:
   1. Center of Glass U-Value: Comply with NFRC 100 using Lawrence Berkeley National Laboratory (LBNL) WINDOW 6.3 computer program.
   2. Center of Glass Solar Heat Gain Coefficient (SHGC): Comply with NFRC 200 using Lawrence Berkeley National Laboratory (LBNL) WINDOW 6.3 computer program.
   3. Solar Optical Properties: Comply with NFRC 300 test method.

2.02 GLASS MATERIALS

A. Float Glass: Provide float glass based glazing unless otherwise indicated.
   1. Kind HS - Heat-Strengthened Type: Complies with ASTM C1048.
   2. Kind FT - Fully Tempered Type: Complies with ASTM C1048.
   3. Fully Tempered Safety Glass: Complies with ANSI Z97.1 or 16 CFR 1201 criteria for safety glazing used in hazardous locations.

2.03 INSULATING GLASS UNITS

A. Manufacturers:
   1. Cardinal Glass Industries: www.cardinalcorp.com.
   2. Guardian Industries Corp: www.sunguardglass.com.
   3. Oldcastle Glass; www.oldcastleglass.com.
   4. Pilkington North America Inc: www.pilkington.com/na.
   5. Viracon, Apogee Enterprises, Inc: www.viracon.com/#sle.

6. PPG Industries, Inc: www.ppgideascapes.com.
7. Substitutions: See Section 01 60 00 - Product Requirements.

B. Insulating Glass Units: Types as indicated.
1. Durability: Certified by an independent testing agency to comply with ASTM E2190.
2. Coated Glass: Comply with requirements of ASTM C1376 for pyrolytic (hard-coat) or magnetic sputter vapor deposition (soft-coat) type coatings on flat glass; coated vision glass, Kind CV; coated overhead glass, Kind CO; or coated spandrel glass, Kind CS.
3. Warm-Edge Spacers: Low conductivity thermoplastic and stainless steel.
   a. Spacer Width: As required for specified insulating glass unit.
   b. Spacer Height: Manufacturer's standard.
   c. Integral 40% dessicant.
   d. Products:
      1) Technoform Glass Insulation; TGI-Spacer: www.glassinsulation.us/#sle.
      2) Substitutions: See Section 01 60 00 - Product Requirements.
4. Spacer Color: match framing color.
5. Edge Seal:
   a. Dual-Sealed System: Provide polyisobutylene sealant as primary seal applied between spacer and glass panes, and silicone sealant as secondary seal applied around perimeter.
6. Color: Black.
7. Purge interpane space with dry air, hermetically sealed.

C. IG-1 Insulating Glass Units: Vision glass, double glazed.
1. Applications: Exterior glazing unless otherwise indicated.
2. Space between lites filled with argon.
3. Outboard Lite: Fully tempered float glass, 1/4 inch thick, minimum.
   a. Tint: Clear.
   b. Coating: Low-E (passive type), on #2 surface.
4. Inboard Lite: Fully tempered float glass, 1/4 inch thick, minimum.
   a. Tint: Clear.
5. Total Thickness: 1 inch.
6. Thermal Transmittance (U-Value), Winter - Center of Glass: 0.24, minimum.
7. Visible Light Transmittance (VLT): 70 percent, minimum.
8. Solar Heat Gain Coefficient (SHGC): 39 percent, nominal.
9. Visible Light Reflectance, Outside: 11 percent, nominal.
10. Glazing Method: Dry glazing method, gasket glazing.
11. **BASIS OF DESIGN:** Solarban 60

D. IG-2 Insulating Glass Units: Safety glazing.
1. Applications:
   a. Glazed lites in exterior doors.
   b. Glazed sidelights and panels next to doors.
   c. Other locations required by applicable federal, state, and local codes and regulations.
   d. Other locations indicated on drawings.
2. Glass Type: Same as other vision glazing except use laminated float glass for both outboard and inboard lites.

2.04 ACCESSORIES

A. Setting Blocks: Silicone, with 80 to 90 Shore A durometer hardness; 1 Option II. Length of 0.1 inch for each square foot of glazing or minimum 4 inch x width of glazing rabbet space minus 1/16 inch x height to suit glazing method and pane weight and area.

B. Glazing Gaskets: Resilient silicone extruded shape to suit glazing channel retaining slot; 1 Option I; color black.

C. Glazing Clips: Manufacturer's standard type.

2.05 FABRICATION

A. Fabricate glass and other glazing products in sizes required to glaze openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with recommendations of product manufacturer and reference glazing standard as required to comply with system performance requirements.

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 immediately 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. Install glazing sealants in accordance with ASTM C1193, GANA (SM), and manufacturer's instructions.

C. Do not exceed edge pressures around perimeter of glass lites as stipulated by glass manufacturer.

D. Set glass lites of system with uniform pattern, draw, bow, and similar characteristics.

E. Set glass lites in proper orientation so that coatings face exterior or interior as indicated.

F. 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, and paint.

3.04 INSTALLATION - DRY GLAZING METHOD (GASKET GLAZING)

A. Application - Exterior and/or Interior Glazed: Set glazing infills from either the exterior or the interior of the building.

B. Place setting blocks at 1/4 points with edge block no more than 6 inch from corners.

C. Rest glazing on setting blocks and push against fixed stop with sufficient pressure on gasket to attain full contact.

D. Install removable stops without displacing glazing gasket; exert pressure for full continuous contact.

3.05 CLEANING

A. Remove excess glazing materials from finish surfaces immediately after application using solvents or cleaners recommended by manufacturers.

B. Remove nonpermanent labels immediately after glazing installation is complete.

C. Clean glass and adjacent surfaces after sealants are fully cured.

D. 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.

3.06 PROTECTION

A. After installation, mark pane with an 'X' by using removable plastic tape or paste; do not mark heat absorbing or reflective glass units.

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

END OF SECTION

SECTION 09 91 13
EXTERIOR PAINTING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Surface preparation.

B. Field application of paints.

C. Scope: Finish exterior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated.

D. Do Not Paint or Finish the Following Items:
1. Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.
2. Items indicated to receive other finishes.
3. Items indicated to remain unfinished.
4. Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment.
5. Non-metallic roofing and flashing.
6. Stainless steel, anodized aluminum, bronze, terne-coated stainless steel, zinc, and lead.
7. Floors, unless specifically indicated.
8. Ceramic and other types of tiles.
9. Brick, glass unit masonry, architectural concrete, cast stone, integrally colored plaster and stucco.
10. Glass.
11. Concealed pipes, ducts, and conduits.

1.02 RELATED REQUIREMENTS

A. Section 08 11 13 - Hollow Metal Doors and Frames: Shop-primed items for field painting.

1.03 REFERENCE STANDARDS

A. 40 CFR 59, Subpart D - National Volatile Organic Compound Emission Standards for Architectural Coatings; U.S. Environmental Protection Agency.

B. MPI (APSM) - Master Painters Institute Architectural Painting Specification Manual.

C. SSPC-SP 1 - Solvent Cleaning.

D. SSPC-SP 2 - Hand Tool Cleaning.

E. SSPC-SP 6 - Commercial Blast Cleaning.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.

B. Product Data: Provide complete list of products to be used, with the following information for each:
1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
2. Cross-reference to specified paint system(s) product is to be used in; include description of each system.

C. Samples: Submit two paper "draw down" samples, 8-1/2 by 11 inches in size, illustrating range of colors available for each finishing product specified.
1. Where sheen is specified, submit samples in only that sheen.
2. Where sheen is not specified, discuss sheen options with Architect before preparing samples, to eliminate sheens not required.
3. Final acceptance of colors will be from samples applied on the job.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified, with minimum five years documented experience.

B. Applicator Qualifications: Company specializing in performing the type of work specified approved by manufacturer.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.

B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.

C. Paint Materials: Store at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.

1.07 FIELD CONDITIONS

A. Do not apply materials when surface and ambient temperatures are outside the paint product manufacturer's temperature ranges.

B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.

C. Do not apply exterior paint and finishes during rain or snow, or when relative humidity is outside the humidity ranges required by the paint product manufacturer.

D. Minimum Application Temperatures for Latex Paints: 50 degrees F for exterior; unless required otherwise by manufacturer's instructions.

E. Painting may be continued during inclement weather if areas and surfaces to be finished are enclosed and heated to within temperature limits specified by paint manufacturer during application and drying periods.

F. Provide lighting level of 80 ft candles measured mid-height at substrate surface.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Provide paints and finishes from the same manufacturer to the greatest extent possible.
   1. If a single manufacturer cannot provide specified products, minor exceptions will be permitted provided approval by Architect is obtained using the specified procedures for substitutions.
   2. Substitution of other products by the same manufacturer is preferred over substitution of products by a different manufacturer.
   3. Substitution of a different paint system using MPI-approved products by the same manufacturer will be considered.

B. Paints:
   1. Benjamin Moore & Co: www.benjaminmoore.com.
   2. Diamond Vogel Paints: www.diamondvogel.com/#sle.
   3. PPG Paints: www.ppgpaints.com/#sle.
   4. Sherwin-Williams Company: www.sherwin-williams.com/#sle.

C. Primer Sealers: Same manufacturer as top coats.

D. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 PAINTS AND FINISHES - GENERAL

A. Paints and Finishes: Ready-mixed, unless required to be a field-catalyzed paint.
   1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.

2. Provide materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.
3. For opaque finishes, tint each coat including primer coat and intermediate coats, one-half shade lighter than succeeding coat, with final finish coat as base color.
4. Supply each paint material in quantity required to complete entire project's work from a single production run.
5. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is described explicitly in manufacturer's product instructions.

B. Volatile Organic Compound (VOC) Content:
1. Provide paints and finishes that comply with the most stringent requirements specified in the following:
a. 40 CFR 59, Subpart D--National Volatile Organic Compound Emission Standards for Architectural Coatings.
b. Architectural coatings VOC limits of the State in which the Project is located.
2. Determination of VOC Content: Testing and calculation in accordance with 40 CFR 59, Subpart D (EPA Method 24), exclusive of colorants added to a tint base and water added at project site; or other method acceptable to authorities having jurisdiction.

C. Sheens: Provide the sheens specified; where sheen is not specified, sheen will be selected later by Architect from the manufacturer's full line.

D. Colors: To be selected from manufacturer's full range of available colors.
1. Selection to be made by Architect after award of contract.

2.03 PAINT SYSTEMS - EXTERIOR

A. Ferrous Metals, Unprimed, Alkyd, 3 Coat:
1. One coat of alkyd primer. Applied to result in a dry film thickness of not less than 2.0 mils.
a. Benjamin Moore; Super Spec Alkyd Metal Primer P06
b. Diamond Vogel: CoteAll Multi-Purpose Alkyd Primer.
c. PPG Paints; 6-208 SpeedHide Interior/Exterior Rust Inhibiting Primer.
d. Sherwin-Williams; Kem Kromik Universal Metal Primer B50NZ6/B50WZ1.
2. Semi-gloss: Two coats of alkyd enamel. Applied to result in a dry film thickness of not less than 2.0 mil per coat.
a. Benjamin Moore; Super Spec HP “D.T.M. Alkyd Semi-Gloss P24.
b. Diamond Vogel: CoteAll Multi-Purpose Alkyd Semi Gloss
c. PPG Paints; Dev-Guard Semi-Gloss Enamel. 4306.
d. Sherwin-Williams; Industrial Enamel B-54 Series.

B. Ferrous Metals, Primed, Alkyd, 2 Coat:
1. Touch-up with rust-inhibitive primer recommended by top coat manufacturer.
2. Gloss: Two coats of alkyd enamel. Applied to result in a dry film thickness of not less than 2.0 mil per coat.
a. Benjamin Moore; Super Spec HP Urethane Alkyd Gloss Enamel P22:
b. Diamond Vogel: CoteAll Multipurpose Alkyd Enamel.
c. PPG Paints; Dev-Guard Semi-Gloss Enamel. 4308.
d. Sherwin-Williams; Industrial Enamel B-54 Series.
3. Semi-gloss: Two coats of alkyd enamel. Applied to result in a dry film thickness of not less than 2.0 mil per coat.
a. Benjamin Moore; Super Spec HP “D.T.M. Alkyd Semi-Gloss P24.
b. Diamond Vogel: CoteAll Multi-Purpose Alkyd Semi Gloss
c. PPG Paints; Dev-Guard Semi-Gloss Enamel. 4306.
d. Sherwin-Williams; Industrial Enamel B-54 Series.

C. Galvanized Metals, Alkyd, 3 Coat:
1. One coat galvanize primer. Applied to result in a dry film thickness of not less than 2.0 mils.

a. Benjamin Moore; Super Spec Acrylic Metal Primer P04
b. Diamond Vogel: Vers-Acryl 300 Acrylic Maintenance Primer/Finish.
c. PPG Paints; 6-209 SpeedHide Interior/Exterior Galvanized Steel Primer.
d. Sherwin-Williams; Galvite HS Paint B50WZ30.

2. Gloss: Two coats of alkyd enamel. Applied to result in a dry film thickness of not less than 2.0 mil per coat.
   a. Benjamin Moore; Super Spec HP Urethane Alkyd Gloss Enamel P22:
   b. Diamond Vogel: CoteAll Multipurpose Alkyd Enamel.
   c. PPG Paints; Dev-Guard Semi-Gloss Enamel. 4308.
   d. Sherwin-Williams; Industrial Enamel B-54 Series.
3. Semi-gloss: Two coats of alkyd enamel. Applied to result in a dry film thickness of not less than 2.0 mil per coat.
   a. Benjamin Moore; Super Spec HP “D.T.M. Alkyd Semi-Gloss P24.
   b. Diamond Vogel: CoteAll Multi-Purpose Alkyd Semi Gloss
   c. PPG Paints; Dev-Guard Semi-Gloss Enamel. 4306.
   d. Sherwin-Williams; Industrial Enamel B-54 Series.

2.04 ACCESSORY MATERIALS

A. Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials as required for final completion of painted surfaces.

B. Patching Material: Latex filler.

C. Fastener Head Cover Material: Latex filler.

PART 3 EXECUTION

3.01 EXAMINATION

A. Do not begin application of paints and finishes until substrates have been properly prepared.

B. Verify that surfaces are ready to receive work as instructed by the product manufacturer.

C. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.

D. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

E. Test shop-applied primer for compatibility with subsequent cover materials.

3.02 PREPARATION

A. Clean surfaces thoroughly and correct defects prior to application.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

C. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces for finishing.

D. Seal surfaces that might cause bleed through or staining of topcoat.

E. Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.

F. Galvanized Surfaces:
   1. Remove surface contamination and oils and wash with solvent according to SSPC-SP 1.
   2. Prepare surface according to SSPC-SP 2.

G. Ferrous Metal:
   1. Solvent clean according to SSPC-SP 1.
   2. Shop-Primed Surfaces: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Re-prime entire shop-primed item.

3. Remove rust, loose mill scale, and other foreign substances using methods recommended in writing by paint manufacturer and blast cleaning according to SSPC-SP 6 "Commercial Blast Cleaning". Protect from corrosion until coated.

H. Metal Doors to be Painted: Prime metal door top and bottom edge surfaces.

3.03 APPLICATION

A. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".

B. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.

C. Apply each coat to uniform appearance.

D. Dark Colors and Deep Clear Colors: Regardless of number of coats specified, apply additional coats until complete hide is achieved.

E. Sand metal surfaces lightly between coats to achieve required finish.

F. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.

G. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

3.04 CLEANING

A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.

3.05 PROTECTION

A. Protect finishes until completion of project.

B. Touch-up damaged finishes after Substantial Completion.

3.06 COLOR SCHEDULE

A. Doors and Frames: Tricorn Black.

END OF SECTION

9320.00 DOC NCCF

POWER HOUSE WINDOW REPLACEMENT

313 LANEDALE
ROCKWELL CITY, IA 50579

MA Architecture 064.23

100% CONSTRUCTION DOCUMENTS
11/14/23

SHEET LIST	
Sheet Number	Sheet Name
ARCHITECTURAL	
A1.01	DEMO & NEW ELEVATIONS, DETAILS, LEGENDS

LICENSED PROFESSIONAL ARCHITECT
Melinda Aust
05898
IOWA

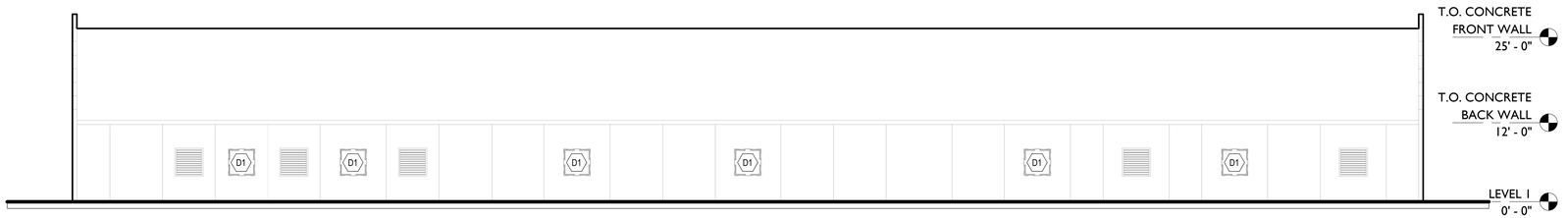
I hereby certify that the portion of this technical submission described below was prepared by me or under my direct supervision and responsible charge. I am a duly licensed architect under the laws of the State of Iowa.

Melinda Aust (Printed or Type Name) 05898 (License Num.)

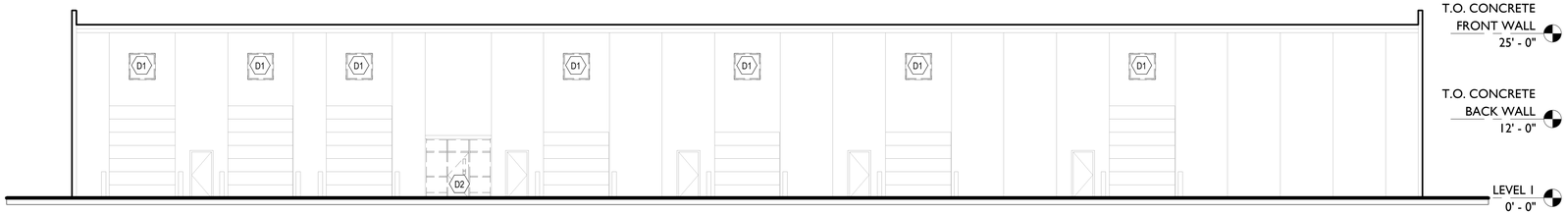
(Signature)

Sheets covered by this seal A-Sheets

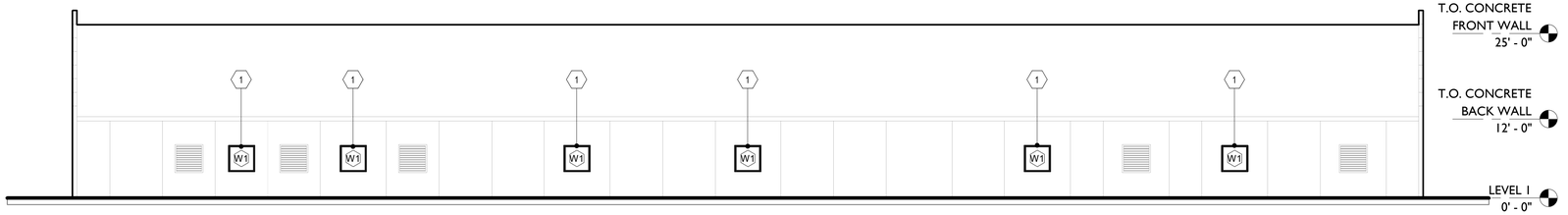
My license renewal date is June 30, 2024



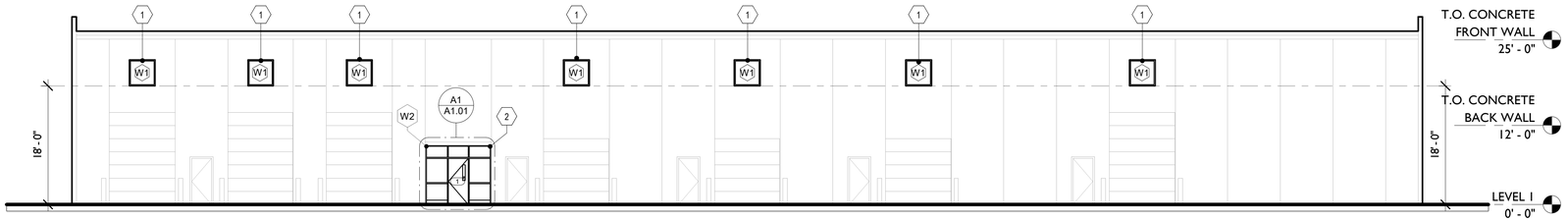
K1 DEMO - BACK ELEVATION
3/32" = 1'-0"



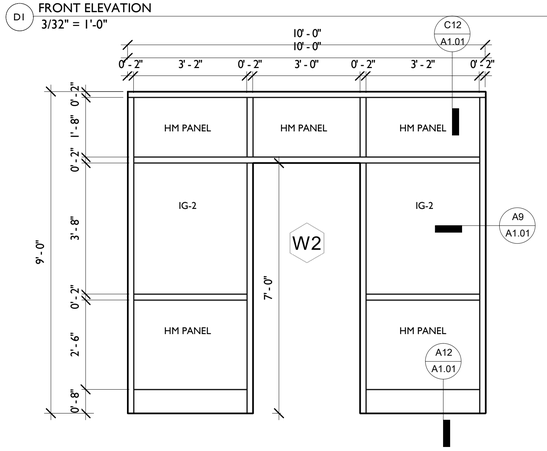
H1 DEMO - FRONT ELEVATION
3/32" = 1'-0"



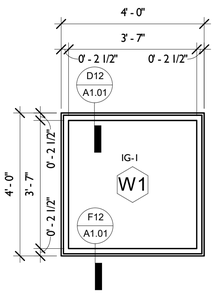
F1 BACK ELEVATION
3/32" = 1'-0"



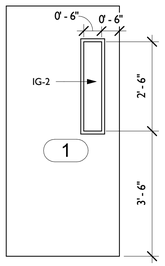
D1 FRONT ELEVATION
3/32" = 1'-0"



A1 HOLLOW METAL FRAME - FRONT ELEVATION
1/2" = 1'-0"

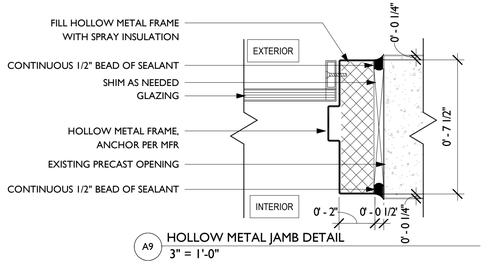


A4 WINDOW - FRONT ELEVATION
1/2" = 1'-0"



A6 DOOR - FRONT ELEVATION
1/2" = 1'-0"

HARDWARE SCHEDULE:
3EA –T4A3386 4.5X4.5 NRP X 32D "MCKINNEY HINGE"
1EA - LC X 8204 X LNL X 26D "SARGENT STOREROOM MORTISE LOCK"
1EA –BEST SFIC X 26D CYLINDER HOUSING TO MATCH EXISTING
1EA –BEST SFIC X 26D CORE TO MATCH EXISTING (VERIFY EXISTING BEST KEYWAY)
1EA –7500 TRI/PCK NORTON CLOSER
1EA –316AV X DOOR WIDTH AND HEIGHT "PEMKO WEATHER STRIP"
1EA –315CN X DOOR WIDTH "PEMKO SWEEP"
1EA –171A X DOOR WIDTH "PEMKO THRESHOLD"
1EA - 346C X DOOR WIDTH "PEMKO DOOR TOP WEATHERSTRIP"
1EA - K1062 BPC X DOOR WIDTH -2" "ROCKWOOD KICK PLATE"



A9 HOLLOW METAL JAMB DETAIL
3" = 1'-0"

GENERAL NEW CONSTRUCTION NOTES:

1. EXISTING DIMENSIONS, STRUCTURES, WALL TYPES, THICKNESS, HEIGHTS, AND FINISHES TO BE FIELD VERIFIED BY CONTRACTOR.
2. EXTERIOR DIMENSIONS ARE FROM F.O. STUD TO F.O. STUD OR FROM F.O. MASONRY TO F.O. MASONRY.
3. PAINTING OF THE CONCRETE TO BE DONE BY OWNER, INCLUDING THE JAMBS AND SILLS AND FACE OF THE PRECAST.
4. ENTRY TO REMAIN SECURE THROUGHOUT CONSTRUCTION. PROVIDE TEMPORARY SECURITY BARRIER AS REQUIRED.
5. REPLACE DAMAGED BLOCKING WITH MORTAR AT CONCRETE PANELS. SEE SPECIFICATIONS FOR ALLOWANCE DETAILS.

CONSTRUCTION LEGEND:

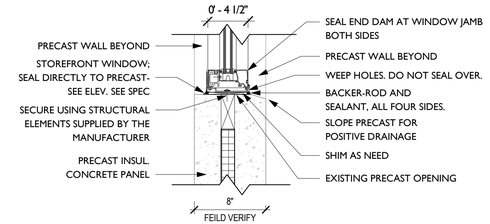
EXIST. TO BE DEMOLISHED
EXIST. WALL TO REMAIN
NEW WALL

DEMOLITION KEYNOTES

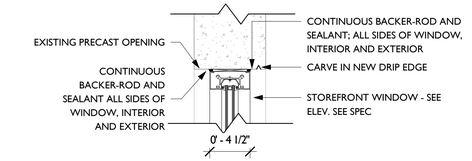
KEY	DESCRIPTION
D1	DEMO EXISTING WINDOW. REPAIR CAST-IN-PLACE PANEL AS NEEDED.
D2	DEMO EXISTING STORE FRONT SYSTEM. REPAIR CAST-IN-PLACE PANELS AS NEEDED. PATCH AND REPARE ANY DAMAGE TO CANOPY ABOVE.

NEW CONSTRUCTION KEYNOTES

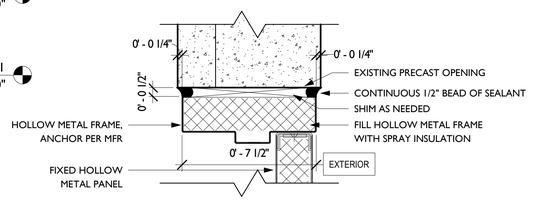
KEY	DESCRIPTION
1	NEW ALUM STOREFRONT PLACED IN EXISTING CONCRETE OPENING.
2	NEW HOLLOW METAL DOOR AND FRAME.



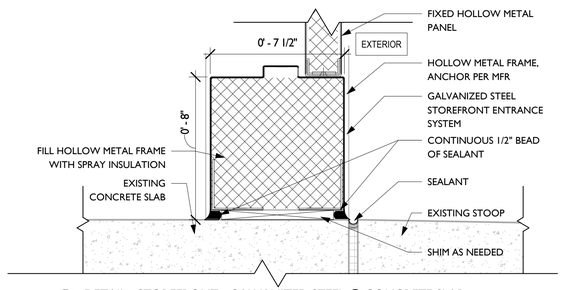
F12 DETAIL - W1 - SILL SECTION
1 1/2" = 1'-0"



D12 DETAIL - W1 HEAD SECTION
1 1/2" = 1'-0"



C12 HOLLOW METAL HEADER DETAIL
3" = 1'-0"



A12 DETAIL - STOREFRONT - GALVANIZED STEEL @ CONCRETE SLAB
3" = 1'-0"

MA Architecture
CERTIFIED TARGETED SMALL BUSINESS

ARCHITECT
MA ARCHITECTURE
1201 KEOSAUQUA WAY, SUITE 101
DES MOINES, IA 50309
Ph. 515 473 4834
www.architecturema.com

9320.00 DOC NCCF
POWER HOUSE WINDOW REPLACEMENT

100% CONSTRUCTION DOCUMENTS

MA Architecture No.: 064.23
Date: 11/14/23
Revisions

MARK	DESCRIPTION	DATE

DEMO & NEW ELEVATIONS, DETAILS, LEGENDS

A1.01

11/14/2023 3:18:31 PM
Autodesk Docs://06423_DAS NCCF WINDOW REPLACEMENT/06423_DAS NCCF WINDOW REPLACEMENT_R22.rvt

Exhibit C Facility Work Requirements

DOC NCCF Powerhouse Window Replacement
North Central Correctional Facility
Request for Quote RFQ932000-01

Due Tuesday, 1/9/24 at 2:00 PM (CT)

WORK HOUR RESTRICTIONS

1. Allowable work hours are from 7:00 AM to 4:00 PM, Monday through Friday unless arrangements are made in advance.

CONTRACTOR USE OF SITE AND PREMISES

1. Construction Operations: Limited to the Powerhouse building and its exterior.
2. Provide access to and from site as required by law and Owner:
    a. Emergency Building Exits During Construction: Keep all exits required by code open during construction period; provide temporary exit signs if exit routes are temporarily altered.
    b. Do not obstruct roadways, sidewalks, or other public ways without permission of Owner and permit if required.
3. Facility will be occupied at all times during duration of work. Contractor personnel shall conduct themselves in an agreeable manner at all times. Failure to do so may result in removal from the work site.
4. The contractor shall identify their work zones with a barrier such as caution tape to help delineate the construction areas from public areas.
5. If a crane, lift or other equipment is necessary inside the Facility to perform the work, the mobilization must be coordinated and approved by NCCF Staff and the Construction Manager.

OWNER OCCUPANCY

1. Owner intends to occupy the Project throughout construction.
2. Cooperate with Owner to minimize conflict and to facilitate Owner's operations.
3. Schedule the Work to accommodate Owner occupancy.

RULES FOR CONSTRUCTION WORKERS

1. The staff of the State of Iowa has a responsibility to protect the public by providing a secure environment. All work site rules must always be followed.
2. All construction workers must have a background check completed and undergo PREA training prior to entering the campus to perform work. There is no cost to the Contractor for them.
3. All State properties are tobacco free. No smoking will be permitted or tolerated on campus unless in designated areas.
4. Contractors are permitted access only to the work site and no other areas of the North Central Correctional Facility.
5. No drugs, alcohol, or firearms are allowed on the work site.
6. Do not leave money, drugs, alcohol, or firearms in your personal vehicle.
7. Company and personal vehicles are to be parked and locked in designated or authorized area of the work.

8. Maintain control of all tools, supplies, and debris always. All tools must always be accounted for and secured at the end of each shift.
9. All vehicles must be locked when unoccupied and the windows left open no more than 1-inch.
10. Do not give anything to residents or take anything from residents; if they offer, inform your supervisor.
11. Ladders and scaffolding must be taken down when not in use and at the end of each shift.
12. Fuel cans are always to be secured.
13. During an emergency, follow the instructions of the security staff.
14. Contractors will be allowed to park their personal vehicles at the Powerhouse building if they do not cause a disturbance to traffic or regular facility activities.
15. The temporary toilets and dumpsters must be staged South of the Powerhouse building where the facility's current dumpster is located.
16. A correctional facility is a somewhat unstable environment and poses certain potential hazards to individuals living, working and visiting within its confines. As a result, compliance with facility policies and procedures, as well as the directives of facility staff is essential. Individuals working inside the facility agree to follow all known policies and procedures, agree to follow the directives of facility staff, and acknowledge responsibility to seek assistance of facility staff if questions or questionable circumstances arise. Individuals working inside the facility also must follow these guidelines:
    a. Workers must be suitably attired. They will be properly attired as would be expected in a public meeting place. Workers will wear shoes and will not wear miniskirts, shorts, muscle shirts, see-through clothing, halter-tops, clothing made of lycra or spandex material, or orange shirts. Split skirts of appropriate length are allowed. Blue chambray shirts are not allowed to be worn with blue jeans. No clothing shall be worn with obscene or lewd slogans, pictures, or words, and similar apparel. All female workers are required to wear a bra and underwear.

    b. Workers will be required to clear a metal detector scan or other scanning device prior to admittance. Any person who is unable to clear the metal detector scan may be pat searched. All other items such as coats shall be searched electronically and may be manually searched as well. Entrance may be denied if the worker is not willing to submit to a search.

    c. Workers will be required to bring a list of tools they will be taking inside the facility. These tools will be inventoried going into the facility and again when the worker is leaving the facility. All tools will be accounted for throughout the day.

    d. For security and safety purposes workers must be escorted by a staff member.

    e. Cell phones, weapons, and cameras/camcorders are not allowed inside the facility. The foreman will be allowed to have one cell phone.

    f. Wallets, purses, and billfolds are not allowed inside the facility.

    g. Tobacco products are not allowed inside the facility.

Exhibit D Sample Certification of Insurance

DOC NCCF Powerhouse Window Replacement
North Central Correctional Facility
Request for Quote RFQ932000-01

Due Tuesday, 1/9/24 at 2:00 PM (CT)

SAMPLE

ACORD

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): xx/xx/xxxx

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: Agent's Information	
Agent's Name Agent's Address	PHONE (A/C, No, Ext):	FAX (A/C, No):
	E-MAIL ADDRESS:	
	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A: Company A (AM Best Rated A/VI or Better)	Admitted Carriers
INSURED Trade Contractor's Name Trade Contractor's Mailing Address	INSURER B:	
	INSURER C:	
	INSURER D:	
	INSURER E:	
	INSURER F:	

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS Minimum	
* A	COMMERCIAL GENERAL LIABILITY CLAIMS-MADE [X] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY [X] PRO-JECT [ ] LOC OTHER:	X	X	#TBD- CGL	3/1/17	3/1/18	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 1,000,000 $ $ $1,000,000 $2,000,000 $1,000,000
B	AUTOMOBILE LIABILITY [X] ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS HIRED AUTOS NON-OWNED AUTOS	X	X	#TBD-AL	3/1/17	3/1/18	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ $ $
C	UMBRELLA LIAB [X] OCCUR EXCESS LIAB [ ] CLAIMS-MADE DED RETENTION $	X	X	#TBD-UMB	3/1/17	3/1/18	EACH OCCURRENCE AGGREGATE	$ 2,000,000 $
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) [ ] Y / N If yes, describe under DESCRIPTION OF OPERATIONS below	N/A	X	#TBD-WC	3/1/17	3/1/18	[X] PER STATUTE [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$500,000 $500,000 $500,000
* E	Owners Contrators Protective Liability			#TBD-OCP	3/1/17	3/1/18	*Limits equal to CGL (or) as required by owner (Note- Would be either CGL or OCP, not both)	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Additional Insured on a Primary & Non-Contributory basis (CGL;AL;UMB/Excess) in favor of : (Owner) Iowa Department of Administrative Services (DAS), Officers, Directors, Members, Consultants, Agents, and Employees.
Waiver of Subrogation (CGL;AL;WC/EL;UMB/Excess) in favor of: (Owner) Iowa Department of Administrative Services (DAS), Officers, Directors, Members, Consultants, Agents, and Employees.

Project XXXX.XX (Number varies by project)

CERTIFICATE HOLDER

Iowa Department of Administrative Services (DAS)
109 SE 13th Street
Des Moines, IA 50319

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

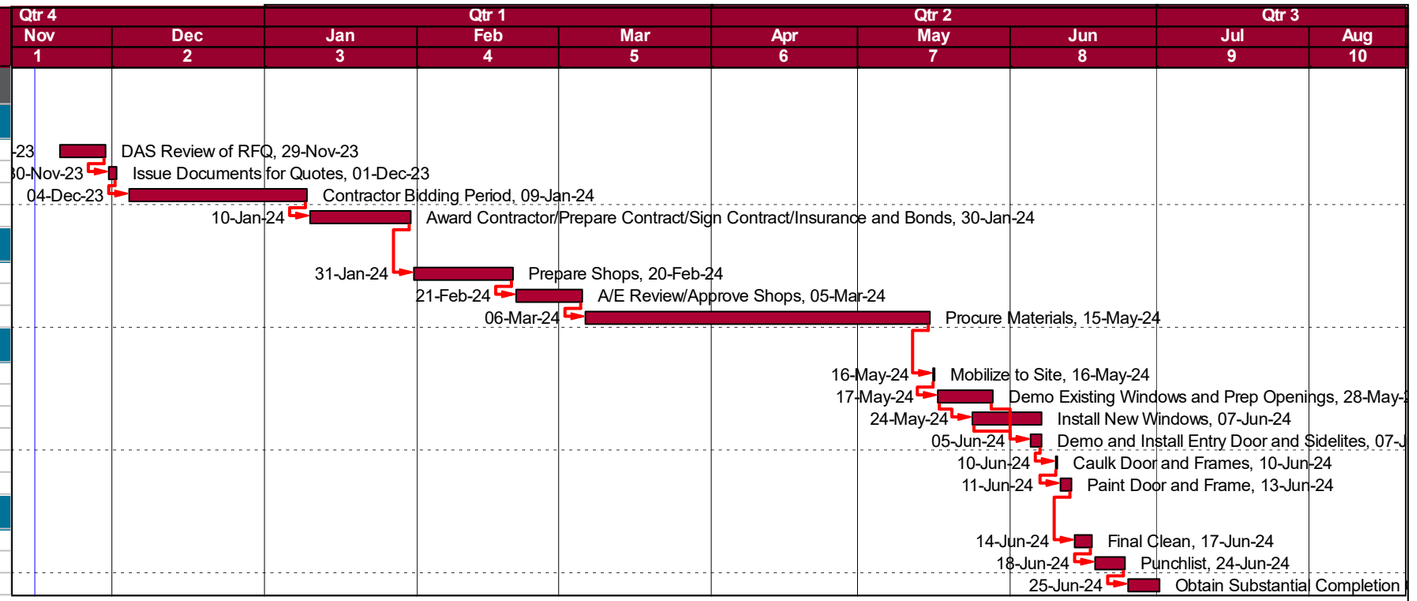
Signature

Exhibit E Proposed Schedule

DOC NCCF Powerhouse Window Replacement
North Central Correctional Facility
Request for Quote RFQ932000-01

Due Tuesday, 1/9/24 at 2:00 PM (CT)

Activity Name	Orig Dur	Start	Finish
State of Iowa DAS - NCCF Powerhouse Window Replacen	155	20-Nov-23	01-Jul-24
Preconstruction	48	20-Nov-23	30-Jan-24
DAS Review of RFQ	6	20-Nov-23	29-Nov-23
Issue Documents for Quotes	2	30-Nov-23	01-Dec-23
Contractor Bidding Period	25	04-Dec-23	09-Jan-24
Award Contractor/Prepare Contract/Sign Contract/Insurance and Bonds	15	10-Jan-24	30-Jan-24
Procurement	75	31-Jan-24	15-May-24
Prepare Shops	15	31-Jan-24	20-Feb-24
A/E Review/Approve Shops	10	21-Feb-24	05-Mar-24
Procure Materials	50	06-Mar-24	15-May-24
Construction	20	16-May-24	13-Jun-24
Mobilize to Site	1	16-May-24	16-May-24
Demo Existing Windows and Prep Openings	7	17-May-24	28-May-24
Install New Windows	10	24-May-24	07-Jun-24
Demo and Install Entry Door and Sidelites	3	05-Jun-24	07-Jun-24
Caulk Door and Frames	1	10-Jun-24	10-Jun-24
Paint Door and Frame	3	11-Jun-24	13-Jun-24
Closeout	12	14-Jun-24	01-Jul-24
Final Clean	2	14-Jun-24	17-Jun-24
Punchlist	5	18-Jun-24	24-Jun-24
Obtain Substantial Completion Certificate	5	25-Jun-24	01-Jul-24



Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

State of Iowa DAS - NCCF Powerhouse Window Replacement
*****Current Schedule*****
16-Nov-23

McGOUGH

Department of Administrative Services
Empowering People Collaboration Customer Service