

DATE: 02-26-2020

HURST-ROSCHÉ, INC.  
1400 E. Tremont Street  
Hillsboro, Illinois 62049  
217-532-3959

TO: PROSPECTIVE BIDDERS

SUBJECT: ADDENDUM NO. 2 TO THE BIDDING DOCUMENTS FOR

**SUMMER 2020 H/LS IMPROVEMENTS**  
**EAST ALTON / WOOD RIVER HIGH SCHOOL**  
**EAST ALTON / WOOD RIVER CHSD NO 14**  
**WOOD RIVER, MADISON COUNTY, ILLINOIS**  
**HR # 150-2419**

This addendum forms a part of the bidding and contract documents and modifies the original bidding documents dated February 10, 2020. Acknowledge receipt of this addendum in the space provided on the Bid Form. **FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.**

\*\*\*\*\*

**Upon receipt of this addendum, please sign below and email to Hurst-Rosche, Inc. at [tdownen@hurst-rosche.com](mailto:tdownen@hurst-rosche.com) within 24 hours of receipt.**

<b>RECEIVED BY:</b>	_____
	<b>Company Name/Authorized Representative</b>
<b>DATE:</b>	_____

**SPECIFICATIONS**

- A. Section 000110 Table of Contents
  - 1. **DELETE** “2” from page number reference for Section 001116 and **REPLACE** it with, “3”.
  - 2. **DELETE** “4” from page number reference for Section 012000 and **REPLACE** it with, “5”.
  - 3. **ADD** Section 08 41 13 Aluminum Framed Entrances and Storefronts (Attachment #5) to the table of contents.
  
- B. Section 001116 Invitation to Bid
  - 1. **DELETE** this section in its entirety and **REPLACE** it with Attachment #1.
  
- C. Section 004300 Procurement Form Supplements
  - 1. **DELETE** this section in its entirety and **REPLACE** it with Attachment #2.

This addendum consists of 2 pages and 6 attachments consisting of 24 additional pages.

D. Section 011000 Summary

1. **DELETE** this section in its entirety and **REPLACE** it with Attachment #3.

E. Section 012000 Price and Payment Procedures

1. **DELETE** this section in its entirety and **REPLACE** it with Attachment #4.

F. Section 08 41 13 Aluminum Framed Entrances and Storefronts

1. **ADD** this section (Attachment #5) to the project manual.

G. Section 08 80 00 Glazing

1. **DELETE** Paragraph 2.3.C.3 in its entirety and **REPLACE** it with, "Color: Custom color as selected by Architect / Engineer."

**DRAWINGS**

A. Sheet G-102

1. **ADD** A-301a ADDENDUM #2, ATT. #6 RE-GLAZING ELEVATIONS ALTERNATE BID #B2 (Attachment #6) to the sheet index.

B. Sheet A-301a

1. **ADD** this sheet (Attachment #6) to the set of Drawings.

This addendum **DOES NOT** alter the previously published bid date of **Thursday, May 5, 2020, 2:00 PM**, prevailing time, at **East Alton / Wood River CHSD No. 14, 777 North Wood River Avenue, Wood River, IL**.

Sincerely,

HURST-ROSCHE, INC.



Timothy L. Downen, AIA, LEED AP  
cc: All plan holders

This addendum consists of 2 pages and 6 attachments consisting of 24 additional pages.

DOCUMENT 001116 - INVITATION TO BID

Project: **SUMMER 2020 H/LS IMPROVEMENTS  
EAST ALTON/WOOD RIVER HIGH SCHOOL  
EAST ALTON/WOOD RIVER CHSD NO. 14  
WOOD RIVER, MADISON COUNTY, ILLINOIS  
HR # 150-2419**

Owner: **EAST ALTON/WOOD RIVER CHSD NO. 14  
777 NORTH WOOD RIVER AVE.  
WOOD RIVER, ILLINOIS 62095**

Architect/Engineer: **HURST-ROSCHE, INC.  
1400 EAST TREMONT ST.  
HILLSBORO, ILLINOIS 62049**

Date: **February 10, 2020**

The Owner will receive Bids until **2:00 PM** local prevailing time on **Thursday, the 5<sup>th</sup> day of March, 2020**, at **East Alton/Wood River CHSD NO. 14, 777 North Wood River Ave., Wood River, Illinois 62095** for the following work:

**SCOPE OF WORK:**

**BID PACKAGE A – TOILET AND FLOORING RENOVATIONS BASE BID:** The scope of work is the renovation of existing toilet rooms including, but not limited to demolition of existing finishes, plumbing fixtures, light fixtures, partitions and accessories as well as the provision and installation of new plumbing fixtures, light fixtures, partitions and accessories. New finishes include ceramic tile flooring, ceramic wall tile, and ceilings. Mechanical, electrical, plumbing and fire protection work is commensurate with the scope of work. The scope of work also includes new ceramic tile flooring and base material in the kitchen and cafeteria area of the building. Existing asbestos tile and wall base will be removed by others.

**BID PACKAGE A – TOILET AND FLOORING RENOVATIONS ALTERNATE BID #A1:** Replace the ceramic tile flooring and base material identified in the Base Bid with quartz epoxy flooring.

**BID PACKAGE B – EXTERIOR IMPROVEMENTS BASE BID:** The scope of work is the replacement of windows and glass block at the South Building as well as maintenance of masonry and stone cladding.

**BID PACKAGE B – EXTERIOR IMPROVEMENTS ALTERNATE BID #B1:** The scope of work is to provide and install aluminum storefront systems with operable sashes per new Section 08 41 13 instead of aluminum windows per Section 08 51 13.

BID PACKAGE B – EXTERIOR IMPROVEMENTS ALTERNATE BID #B2: The scope of work is to re-glaze existing window frames with new insulated glass and insulated metal panels instead of providing all new aluminum storefront systems or aluminum windows.

BID PACKAGE C – COMBINATION OF BASE BID PACKAGE A AND BASE BID PACKAGE B.

BID PACKAGE C – ALTERNATE BID #A1: Same work as described in Bid Package A – Alternate Bid #1 but with combined bid.

BID PACKAGE C – ALTERNATE BID #B1: Same work as described in Bid Package B – Alternate Bid #B1 but with combined bid.

BID PACKAGE C – ALTERNATE BID #B2: Same work as described in Bid Package B – Alternate Bid #B2 but with combined bid.

A Pre-bid Meeting will be held on **Thursday, the 20<sup>th</sup> day of February, 2020, at 10:00 AM**, prevailing time, at **East Alton/Wood River CHSD NO. 14, 777 North Wood River Ave., Wood River, Illinois 62095**.

Drawings and specifications may be obtained at the office of Hurst-Rosche, Inc., 1400 E. Tremont Street, Hillsboro, Illinois, after Monday, February 10, 2020 by paying the non-refundable amounts for each Bid Package:

BASE BID PACKAGE A: \$75.00 (\$85.00 if mailed) for each set of drawings and specifications.

BASE BID PACKAGE B: \$25.00 (\$35.00 if mailed) for each set of drawings and specifications.

Bidding Documents, Drawings and Specifications, may be examined by prospective bidders and material suppliers at the offices of Hurst-Rosche, Inc., 1400 E. Tremont St., Hillsboro, Illinois and the following Plan Rooms:

Central Illinois Plan Room, 1620 S. 5<sup>th</sup> Street, Springfield, IL 62703

Greater Peoria Contractors, 1811 W Altorfer Dr Ste 1, Peoria, IL 61615

McGraw Hill Construction, [www.dodgeprojects.construction.com](http://www.dodgeprojects.construction.com)

Southern Illinois Builders Association, 1468 Green Mount Road, O'Fallon, IL 62269

Drawings and specifications will be available for viewing on the internet at: [www.hurst-rosche.com](http://www.hurst-rosche.com). The documents are being provided for reference purposes only. Bidders are encouraged to obtain a signed and sealed hard copy set of the bidding documents. At a minimum, bidders must obtain clean copies of bid forms from the offices of Hurst-Rosche Inc. by paying a non-refundable amount of \$10.00 to submit a bid for this project.

The Owner requires the project to be substantially complete by Friday, August 7, 2020.

Bidders will be required to provide Bid security of a sum no less than 10 percent of the Bid Sum. The bid security shall be either certified check, cashier's check, bank money order or bid bond issued by surety licensed to conduct business in the State of Illinois. Hereinafter this bid security shall be referred to as the bid bond.

Submit two copies of your Bid on the Bid Form provided. Bidders may supplement this form as appropriate.

Your Bid will be required to be submitted under a condition of irrevocability for a period of 30 days after submission.

The Owner reserves the right to accept or reject any or all Bids or any part thereof, to waive any informality in bidding, and to accept bids deemed most favorable to the Owner.

**EAST ALTON/WOOD RIVER CHSD NO. 14**

**DR. JOHN PEARSON, SUPERINTENDENT**

END OF DOCUMENT

DOCUMENT 004300 - PROCUREMENT FORM SUPPLEMENTS

To: **EAST ALTON/WOOD RIVER CHSD NO. 14**  
**777 NORTH WOOD RIVER AVE.**  
**WOOD RIVER, ILLINOIS 62095**

Project: **SUMMER 2020 H/LS IMPROVEMENTS**  
**EAST ALTON/WOOD RIVER HIGH SCHOOL**  
**EAST ALTON/WOOD RIVER CHSD NO. 14**  
**WOOD RIVER, MADISON COUNTY, ILLINOIS**  
**HR # 150-2419**

Date: \_\_\_\_\_

Submitted by: \_\_\_\_\_  
(full name)

(full address) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Contact Name: \_\_\_\_\_

In accordance with Document 002114 - Instructions to Bidders - AIA and Document 004113 - Bid Form - Stipulated Sum, we include the Appendices to Bid Form Supplements listed below. The information provided shall be considered an integral part of the Bid Form.

The following Appendices are attached to this document:

Appendix A - List of Subcontractors: Include names of major Subcontractors and portions of the Work each Subcontractor will perform.

Appendix B - List of Alternates: Include cost variation to Bid Sum applicable to the Work described in Section 012000-Price and Payment Procedures.

**BID FORM SUPPLEMENTS SIGNATURES**

The Corporate Seal of

\_\_\_\_\_  
(Bidder - print the full name of your firm)

was hereunto affixed in the presence of:

\_\_\_\_\_  
(Authorized signing officer Title)

(Seal)

\_\_\_\_\_  
(Authorized signing officer Title)

(Seal)

APPENDIX A - LIST OF SUBCONTRACTORS

Herewith is the list of subcontractors referenced in the bid submitted by:

(Bidder) \_\_\_\_\_

To (Owner) EAST ALTON/WOOD RIVER CHSD NO. 14

Dated \_\_\_\_\_ and which is an integral part of the Bid Form.

The following work will be performed (or provided) by subcontractors and coordinated by us:

WORK SUBJECT	NAME
<u>Mechanical</u>	_____
<u>Electrical</u>	_____
<u>Plumbing</u>	_____
<u>Fire Alarm</u>	_____
<u>Tiling</u>	_____
<u>Quartz Epoxy Flooring</u>	_____
<u>Walls / Ceilings</u>	_____
<u>Doors / Hardware</u>	_____
<u>Windows / Glazing</u>	_____
<u>Masonry Work</u>	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

APPENDIX B - LIST OF ALTERNATES

The following is the list of alternates referenced in the bid submitted by:

(Bidder) \_\_\_\_\_

To (Owner) EAST ALTON/WOOD RIVER CHSD NO. 14

Dated \_\_\_\_\_ and which is an integral part of the Bid Form.

The following amounts shall be added to or deducted from the Bid Sum. Refer to Section 012000 - Price and Payment Procedures: Schedule of Alternates for description of alternates.

Bid Package A - Alternate # A1 (Add) (Deduct) \$ \_\_\_\_\_

Bid Package B - Alternate # B1 (Deduct) \$ \_\_\_\_\_

Bid Package B - Alternate # B2 (Deduct) \$ \_\_\_\_\_

Bid Package C - Alternate # A1 (Add) (Deduct) \$ \_\_\_\_\_

Bid Package C - Alternate # B1 (Deduct) \$ \_\_\_\_\_

Bid Package C - Alternate # B2 (Deduct) \$ \_\_\_\_\_

DO NOT COPY

END OF DOCUMENT



## SECTION 011000 - SUMMARY

### PART 1 GENERAL

#### 1.1 SECTION INCLUDES

- A. Contract description.
- B. Contractor's use of site and premises.
- C. Owner occupancy.
- D. Specification Conventions.
- E. Contractor's Duties.
- F. Contract Documents.

#### 1.2 CONTRACT DESCRIPTION

- A. Bid Package A – Toilet and Flooring Renovations Base Bid: The scope of work is the renovation of existing toilet rooms including, but not limited to demolition of existing finishes, plumbing fixtures, light fixtures, partitions, and accessories as well as the provision and installation of new plumbing fixtures, light fixtures, partitions and accessories. New finishes include ceramic tile flooring, ceramic wall tile, and ceilings. Mechanical, electrical, plumbing and fire protection work is commensurate with the scope of work. The scope of work also includes new ceramic tile flooring and base material in the kitchen and cafeteria area of the building. Existing asbestos tile and wall base will be removed by others.
- B. Bid Package A – Toilet and Flooring Renovations Alternate Bid #A1: Replace the ceramic tile flooring and base material identified in the Base Bid with quartz epoxy flooring.
- C. Bid Package B – Exterior Improvements Base Bid: The scope of work is replacement of windows and glass block at the South Building as well as maintenance of masonry and stone cladding.
- D. Bid Package B – Exterior Improvements Alternate Bid #B1: The scope of work is to provide and install aluminum storefront systems with operable sashes per new Section 08 41 13 instead of aluminum windows per Section 08 51 13.
- E. Bid Package B – Exterior Improvements Alternate Bid #B2: The scope of work is to re-glaze existing window frames with new insulated glass and insulated metal panels instead of providing all new aluminum storefront systems or aluminum windows.

- F. Bid Package C – Combination of Base Bid Package A and Base Bid Package B.
- G. Bid Package C – Alternate Bid #A1: Same work as described in Bid Package A – Alternate Bid #1 but with combined bid.
- H. Bid Package C – Alternate Bid #B1: Same work as described in Bid Package B – Alternate Bid #B1 but with combined bid.
- I. Bid Package C – Alternate Bid #B2: Same work as described in Bid Package B – Alternate Bid #B2 but with combined bid.

### 1.3 CONTRACTOR'S USE OF SITE AND PREMISES

- A. Limit use of site and premises to allow:
  - 1. Owner occupancy.
  - 2. Work by Others and Work by Owner.
  - 3. Use of site and premises by the public.
- B. Allow for public use of all adjoining streets and sidewalks.
- C. Light duty vehicle parking is permitted. All parking lots and sidewalks are to be restored to their original condition.

### 1.4 OWNER OCCUPANCY

- A. The Owner will occupy the site and premises during the entire period of construction for the conduct of normal operations.
- B. Cooperate with Owner to minimize conflict, and to facilitate Owner's operations.
- C. Schedule the Work to accommodate Owner occupancy.

### 1.5 SPECIFICATION CONVENTIONS

- A. These specifications are written in imperative mood and streamlined form. This imperative language is directed to the Contractor, unless specifically noted otherwise. The words “shall be” are included by inference where a colon (:) is used within sentences or phrases.

### 1.6 CONTRACTOR’S DUTIES

- A. Except as specifically noted, Contractor shall provide and pay for:
  - 1. All labor, materials, and equipment used for construction of and/or incorporated into the project.
  - 2. All tools, construction equipment and machinery.
  - 3. Required building permits, and all inspection fees by governmental authorities.
  - 4. Other facilities and services necessary for proper execution and complete of work.

- B. Owner is exempt from sales tax on product permanently incorporated in work.
  - 1. Obtain sales tax exemption certificate number from Owner.
  - 2. Place exemption certificate number on invoices for materials incorporated in work.
  - 3. Upon completion of work, file with Owner a notarized statement that all purchases made under exemption certificate were entitled to be exempt and furnish copies of invoice to Owner.
  - 4. Pay legally assessed penalties for improper use of exemption certificate number.
- C. Comply with codes, ordinances, rules, regulations, orders, and other legal requirements of public authorities which bear on performance of work.
- D. Promptly submit written notice to Architect/Engineer of observed variance of contract documents from legal requirements.
  - 1. It is not the Contractor's responsibility to make certain that drawings and specifications comply with codes and regulations.
    - a. Appropriate modifications to contract documents will account for/reflect necessary changes.
    - b. Assume responsibility for work known to be contrary to such requirements if written notice is not provided by the Contractor to the Architect.
- E. Enforce strict discipline and good order among employees.
- F. Do not unreasonably encumber site with materials or equipment.
- G. Do not load structure with weight that will endanger structure.
- H. Assume full responsibility for protection and safe-keeping of products stored on premises.
- I. Move any stored products which interfere with operations of Owner or other Contractors.
- J. Obtain and pay for use of additional storage or work areas needed for operations.
- K. The School Board shall prohibit the use of tobacco on school property when the property is being used for any school purposes. Tobacco shall mean cigarette, cigar, pipe or tobacco in any other form including smokeless tobacco which is any loose, cut, shredded, ground, powdered, compressed or leaf tobacco that is intended to be placed in the mouth without being smoked. All members of work crews must remain fully clothed and refrain from using obscene or profane language during these same time parameters. School purposes include, but are not limited to, all interscholastic or extracurricular athletic, academic, or other events sponsored by the School Board or in which students of the District participate.
- L. Contractor shall maintain building free from entrance of water at all times during construction.

- M. Contractor shall furnish, erect and maintain temporary ladders, ramps, or hoists as may be required for performance of his work.
  - 1. All such equipment shall be substantially designed, constructed, and maintained in accordance with applicable federal, state, and local laws, ordinances, and regulations, and shall be promptly removed when no longer needed.
- N. Contractor shall design, furnish, erect, maintain, and move all ladders and scaffolding required for this work.
  - 1. All ladders and scaffolding shall be designed, constructed, and maintained in accordance with applicable federal, state, and local law, ordinances, and regulations, and shall be promptly removed when no longer needed.
- O. All site visits shall be coordinated through Mr. Jeff Foxall, Director of Maintenance, at telephone 618-254-3151, Extension 561.

#### 1.7 CONTRACT DOCUMENTS

- A. Contractor will be furnished free of charge four (4) copies of drawings and specifications.
- B. On request, additional copies will be furnished to Contractor at cost of reproduction, postage and handling.

#### PART 2 PRODUCTS

Not Used.

#### PART 3 EXECUTION

Not Used.

END OF SECTION

## SECTION 012000 - PRICE AND PAYMENT PROCEDURES

### PART 1 GENERAL

#### 1.1 SECTION INCLUDES

- A. Schedule of values.
- B. Applications for payment.
- C. Change procedures.
- D. Defect assessment.
- E. Alternates.

#### 1.2 SCHEDULE OF VALUES

- A. Submit printed schedule on AIA Form G703 - Continuation Sheet for G702.
- B. Submit Schedule of Values in duplicate within 10 days after date established in Notice to Proceed.
- C. Format: Utilize Table of Contents of this Project Manual. Identify each line item with number and title of major specification Section. Identify site mobilization, bonds and insurance.
- D. Include in each line item, amount of Allowances specified in this section. For unit cost Allowances, identify quantities taken from Contract Documents multiplied by unit cost to achieve total for each item.
- E. Include separately from each line item, direct proportional amount of Contractor's overhead and profit.
- F. Revise schedule to list approved Change Orders, with each Application For Payment.

#### 1.3 APPLICATIONS FOR PAYMENT

- A. Submit four copies of each application on AIA Form G702-Application and Certificate for Payment.
- B. Content and Format: Utilize Schedule of Values for listing items in Application for Payment.
- C. Submit updated construction schedule with each Application for Payment.
- D. Payment Period: Submit applications for payment to Architect/Engineer for processing no later than 10 days prior to date established for progress payment meeting.

- E. Submit with transmittal letter as specified for Submittals in Section 013300.
- F. Submit lien waivers.
- G. Application for Progress Payment No. 1 shall be accompanied by a notarized statement on Contractor's letterhead as follows:
  - 1. I certify that the funds requested for the accompanying Pay Request No. 1 will be used to pay all just and lawful bills against the undersigned and his subcontractors for labor, material and equipment employed in the performance of the work. I further certify that such bills will be paid no later than ten (10) calendar days from date of receipt of the Owner's disbursement.
  - 2. Execute statement with signature of a responsible officer of contracting firm.
- H. Each subsequent application for progress payment shall be accompanied by the following supporting documents:
  - 1. Partial or final waivers of lien in monetary amount from Contractor, each material supplier and/or subcontractor reflecting amounts incorporated into preceding request for progress payment.
  - 2. A notarized Affidavit of Payment to Material Suppliers and Subcontractors.
    - a. Affidavit shall be submitted in exact text as exhibit furnished by Architect/Engineers, signed by Contractor or Subcontractor.
    - b. Include unit item, actual amount of contract without overhead or profit, amount paid to date, and amount to become due (balance of account).
- I. Progress payments will be made for materials and equipment not incorporated in the work provided that:
  - 1. Such materials and equipment have been delivered to and suitable stored at site or some other location approved in writing by Owner and Architect/Engineer. All such materials stored off-site shall be marked or tagged with identification of project to which they are assigned.
  - 2. Contractor submits evidence of title to such materials and equipment.
  - 3. Care and custody of such materials and equipment and all costs incurred for movement and storage shall be responsibility of Contractor.
  - 4. Such materials and equipment are suitably insured by Contractor. Contractor shall submit a certificate of insurance showing the Owner as an additional insured and showing amount of insurance coverage of suitable proof that material and equipment are stored in a bonded warehouse.
- J. Refer to Section 017000 for additional and related closeout procedures and requirements.

#### 1.4 CHANGE PROCEDURES

- A. Submittals: Submit name of individual authorized to receive change documents, and be responsible for informing others in Contractor's employ or Subcontractors of changes to the Work.
- B. The Architect/Engineer will advise of minor changes in the Work not involving adjustment to Contract Sum/Price or Contract Time by issuing supplemental instructions in writing.

- C. The Architect/Engineer may issue a Proposal Request including a detailed description of proposed change with supplementary or revised Drawings and specifications, a change in Contract Time for executing the change and the period of time during which the requested price will be considered valid. Contractor will prepare and submit estimate within four days.
- D. Contractor may propose changes by submitting a request for change to Architect/Engineer, describing proposed change and its full effect on the Work. Include a statement describing reason for the change, and effect on Contract Sum/Price and Contract Time with full documentation.
- E. Stipulated Sum/Price Change Order: Based on Proposal Request and Contractor's fixed price quotation as approved by Architect/Engineer.
- F. Architect/Engineer may issue directive, on Hurst-Rosche, Inc. Change Order form signed by Owner, instructing Contractor to proceed with change in the Work, for subsequent inclusion in a Change Order. Document will describe changes in the Work, and designate method of determining any change in Contract Sum/Price or Contract Time. Promptly execute change.
- G. Maintain detailed records of work done on Time and Material basis. Provide full information required for evaluation of proposed changes, and to substantiate costs for changes in the Work.
- H. Document each quotation for change in cost or time with sufficient data to allow evaluation of quotation.
- I. Execution of Change Orders: Architect/Engineer will issue Change Orders for signatures of parties as provided in Conditions of the Contract.
- J. Correlation Of Contractor Submittals:
  - 1. Promptly revise Schedule of Values and Application for Payment forms to record each authorized Change Order as separate line item and adjust Contract Sum/Price.
  - 2. Promptly revise progress schedules to reflect change in Contract Time, revise sub-schedules to adjust times for other items of work affected by the change, and resubmit.
  - 3. Promptly enter changes in Project Record Documents.

#### 1.5 DEFECT ASSESSMENT

- A. Replace the Work, or portions of the Work, not conforming to specified requirements.
- B. If, in the opinion of the Architect/Engineer, it is not practical to remove and replace the Work, the Architect/Engineer will direct appropriate remedy or adjust payment.
- C. Authority of Architect/Engineer to assess defects and identify payment adjustments, is final.

- D. Non-Payment For Rejected Products: Payment will not be made for rejected products for any of the following:
1. Products wasted or disposed of in a manner that is not acceptable.
  2. Products determined as unacceptable before or after placement.
  3. Products not completely unloaded from transporting vehicle.
  4. Products placed beyond lines and levels of required Work.
  5. Products remaining on hand after completion of the Work.
  6. Loading, hauling, and disposing of rejected products.

## 1.6 ALTERNATES

- A. Alternates quoted on Bid Forms will be reviewed and accepted or rejected at Owner's option. Accepted Alternates will be identified in Owner-Contractor Agreement.
- B. Coordinate related work and modify surrounding work.
- C. Schedule of Alternates:
1. Bid Package A - Alternate No. A1: Toilet and Flooring Renovations
    - a. Alternate Item: Replace the ceramic tile flooring and base material identified in the Base Bid with quartz epoxy flooring.
  2. Bid Package B – Alternate No. B1: Exterior Improvements
    - a. Alternate Item: The scope of work is to provide and install aluminum storefront systems with operable sashes per new Section 08 41 13 instead of aluminum windows per Section 08 51 13.
  3. Bid Package B – Alternate No. B2: Exterior Improvements
    - a. Alternate Item: The scope of work is to re-glaze existing window frames with new insulated glass and insulated metal panels instead of providing all new aluminum storefront systems or aluminum windows.
  4. Bid Package C – Alternate No. A1: Combination of Base Bid Package A and Base Bid Package B
    - a. Alternate Item: Same work as described in Bid Package A – Alternate Bid #A1 but with combined bid.
  5. Bid Package C – Alternate No. B1: Combination of Base Bid Package A and Base Bid Package B
    - a. Alternate Item: Same work as described in Bid Package B – Alternate Bid #B1 but with combined bid.
  6. Bid Package C – Alternate No. B2: Combination of Base Bid Package A and Base Bid Package B
    - a. Alternate Item: Same work as described in Bid Package B – Alternate Bid #B2 but with combined bid.



PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

Not Used.

END OF SECTION

## SECTION 08 41 13 – ALUMINUM FRAMED ENTRANCES AND STOREFRONTS

### PART 1 GENERAL

#### 1.1 SUMMARY

- A. Section includes aluminum-framed storefronts including aluminum and glass doors and frames including hardware and glass.
- B. Related Sections:
  - 1. Section 07 90 00 - Joint Protection: System perimeter sealant and back-up materials.
  - 2. Section 08 80 00 - Glazing.

#### 1.2 REFERENCES

- A. Aluminum Association:
  - 1. AA ADM 1 - Aluminum Design Manual.
- B. American Architectural Manufacturers Association:
  - 1. AAMA 501 - Methods of Test for Exterior Walls.
  - 2. AAMA 502 - Voluntary Specification for Field Testing of Windows and Sliding Glass Doors.
  - 3. AAMA 503 - Voluntary Specification for Field Testing of Metal Storefronts. Curtain Wall and Sloped Glazing Systems.
  - 4. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum.
  - 5. AAMA 1503 - Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections.
  - 6. AAMA 2603 - Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels.
  - 7. AAMA 2604 - Voluntary specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels.
  - 8. AAMA 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels.
  - 9. AAMA CW-10 - Care and Handling of Architectural Aluminum from Shop to Site.
  - 10. AAMA MCWM-1 - Metal Curtain Wall Manual.
  - 11. AAMA SFM-1 - Aluminum Store Front and Entrance Manual.
- C. American Society of Civil Engineers:
  - 1. ASCE 7 - Minimum Design Loads for Buildings and Other Structures.

- D. ASTM International:
  1. ASTM A36/A36M - Standard Specification for Carbon Structural Steel.
  2. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
  3. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
  4. ASTM B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
  5. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
  6. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
  7. ASTM E283 - Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.
  8. ASTM E330 - Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors By Uniform Static Air Pressure Difference.
  9. ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors By Uniform Static Air Pressure Difference.
  10. ASTM E547 - Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Static Air Pressure Differential.
  11. ASTM E1105 - Standard Test Method for Field Determination of Water Penetration of Installed Exterior Windows, Curtain Walls, and Doors by Uniform or Cyclic Static Air Pressure Difference.
  
- E. National Fenestration Rating Council Incorporated:
  1. NFRC 100 - Procedures for Determining Fenestration Product U-Factors.
  
- F. National Fire Protection Association:
  1. NFPA 255 - Standard Method of Test of Surface Burning Characteristics of Building Materials.
  
- G. SSPC: The Society for Protective Coatings:
  1. SSPC Paint 20 - Zinc-Rich Primers (Type I - Inorganic and Type II - Organic).
  2. SSPC Paint 25 - Red Iron Oxide, Zinc Oxide, Raw Linseed Oil, and Alkyd Primer.

### 1.3 SYSTEM DESCRIPTION

- A. Aluminum-framed storefront system includes tubular aluminum sections with supplementary internal support framing, aluminum and glass entrances, shop fabricated, factory finished, glass and glazing, related flashings, anchorage and attachment devices.
  
- B. System Assembly: Site assembled.

## 1.4 PERFORMANCE REQUIREMENTS

- A. System Design: Design and size components to withstand dead and live loads caused by positive and negative wind pressure acting normal to plane of wall, including building corners.
  - 1. As calculated in accordance with applicable code, as tested in accordance with ASTM E330.
  - 2. To design pressure of 20 pounds per square foot, as tested in accordance with ASTM E330.
- B. Deflection: Limit mullion deflection to 1/175 for spans under 13'-6" and 1/240 plus 1/4 inch for spans over 13'-6"; with full recovery of glazing materials.
- C. System Assembly: Accommodate without damage to components or deterioration of seals, movement within system, movement between system and peripheral construction, dynamic loading and release of loads, deflection of structural support framing.
- D. Air Infiltration: Limit air leakage through assembly to 0.06 cfm/min/sq ft of wall area, measured at reference differential pressure across assembly of 1.57 pounds per square foot as measured in accordance with ASTM E283.
- E. Air and Vapor Seal: Maintain continuous air barrier and vapor retarder throughout assembly, primarily in line with inside pane of glass and heel bead of glazing compound.
- F. Water Leakage: None, when measured in accordance with ASTM E331 with test pressure difference of 20 percent of design pressure, with minimum differential of 2.86 pounds per square foot and maximum of 12.00 pounds per square foot.
- G. Thermal Transmittance of Assembly (Excluding Entrances): Maximum U Value of 0.69 Btu/sq ft per hour per deg F when measured in accordance with AAMA 1503.
- H. Expansion / Contraction: Provide for expansion and contraction within system components caused by cycling temperature range of 170 degrees F over 12 hour period without causing detrimental effect to system components and anchorage.
- I. System Internal Drainage: Drain water entering joints, condensation occurring in glazing channels, or migrating moisture occurring within system, to exterior by weep drainage network.

## 1.5 SUBMITTALS

- A. Section 01 33 00 - Submittal Procedures: Submittal procedures.
- B. Shop Drawings: Indicate system dimensions, framed opening requirements and tolerances, affected related Work and expansion and contraction joint location and details.
- C. Product Data: Submit component dimensions, describe components within assembly, anchorage and fasteners, glass and infill, door hardware, and internal drainage details.

- D. Design Data: Indicate framing member structural and physical characteristics, calculations, and dimensional limitations.
- E. Manufacturer's Certificate: Certify products meet or exceed specified requirements.

#### 1.6 QUALITY ASSURANCE

- A. Perform Work in accordance with AAMA SFM-1 and AAMA MCWM-1 - Metal Curtain Wall, Window, Store Front and Entrance - Guide Specifications Manual.

#### 1.7 QUALIFICATIONS

- A. Manufacturer and Installer: Company specializing in manufacturing aluminum glazing systems with minimum three years experience, and with service facilities within 100 miles of Project.
- B. Design structural support framing components under direct supervision of Professional Engineer experienced in design of this Work and licensed in State of Missouri.

#### 1.8 DELIVERY, STORAGE, AND PROTECTION

- A. Section 01 60 00 - Product Requirements: Product storage and handling requirements.
- B. Handle Products of this section in accordance with AAMA MCWM-1 - Curtain Wall Manual #10.
- C. Protect finished aluminum surfaces with wrapping. Do not use adhesive papers or sprayed coatings which bond when exposed to sunlight or weather.

#### 1.9 ENVIRONMENTAL REQUIREMENTS

- A. Section 01 60 00 - Product Requirements.
- B. Do not install sealants nor glazing materials when ambient temperature is less than 40 degrees F during and 48 hours after installation.

#### 1.10 COORDINATION

- A. Section 01 30 00 - Administrative Requirements: Coordination and project conditions.

#### 1.11 WARRANTY

- A. Section 01 70 00 - Execution and Closeout Requirements: Product warranties and product bonds.
- B. Furnish five-year manufacturer warranty for glazed units.

## PART 2 PRODUCTS

### 2.1 ALUMINUM-FRAMED STOREFRONTS

- A. Manufacturers:
1. EFCO Corp.  
Monett, MO  
(800)221-4169
  2. Kawneer Co., Inc.  
Norcross, GA
  3. YKK AP America, Inc.  
Dublin, GA  
(314) 304-5182
  4. Oldcastle Building Envelope  
Terrell, TX  
(972) 551-6100
  5. Tubelite, Inc.  
Walker, MI  
(800) 866-2227
  6. Substitutions: Not permitted.
- Products:
- System 403(T) Storefront
- Trifab VG451T Storefront
- YES 45TU Thermal Storefront
- FG-3000 Thermal Storefront
- 14000 Series Storefront
- B. Product Description:
1. Aluminum Frame: Thermally broken; flush glazing stops; drainage holes; internal weep drainage system. Frames for interior glazing need not to be thermally broken.
  2. Mullions: Profile of extruded aluminum with internal reinforcement of aluminum or shaped steel structural section.

### 2.2 COMPONENTS

- A. Extruded Aluminum: ASTM B221; 6063 alloy, T5 temper typical, 6061 alloy, T6 temper for extruded structural members.
- B. Sheet Aluminum: ASTM B209, 5005 alloy, H15 or H34 temper.
- C. Sheet Steel: ASTM A653; galvanized to minimum G90.
- D. Steel Sections: ASTM A36; shaped to suit mullion sections, galvanized to G90.
- E. Glass: Specified in Section 08 80 00.

- F. Glazing Materials: Storefront manufacturer's standard types to suit application and to achieve weather, moisture, and air infiltration requirements.
- G. Operable Sash: Project out operation with seals, weather stripping, insect screens, limit stops and hardware as specified in Section 08 51 13.
- H. Flashings: Minimum 0.032-inch thick aluminum to match mullion sections where exposed.
- I. Sealant and Backing Materials:
  - 1. Sealant Used Within System (Not Used for Glazing): Manufacturer's standard materials to achieve weather, moisture, and air infiltration requirements.
  - 2. Perimeter Sealant: Specified in Section 07 90 00.
- J. Fasteners: Stainless steel.

### 2.3 FABRICATION

- A. Fabricate components with minimum clearances and shim spacing around perimeter of assembly, yet enabling installation and dynamic movement of perimeter seal.
- B. Accurately fit and secure joints and corners. Make joints flush, hairline, and weatherproof.
- C. Prepare components to receive anchor devices. Fabricate anchors.
- D. Arrange fasteners and attachments to conceal from view.
- E. Prepare components with internal reinforcement for door hardware.
- F. Reinforce framing members for imposed loads.

### 2.4 SHOP FINISHING

- A. Painted Aluminum Surfaces: AA-M12C12R1x non-specular as fabricated mechanical finish, chemically cleaned, and prepared for applied coating; with organic coating.
  - 1. High Performance Organic Coating: Fluoropolymer coating system complying with AAMA 2604 or 2605 minimum two-coat, with minimum 70 percent polyvinylidene fluoride resin.
  - 2. Color: As selected by Architect / Engineer from manufacturer's full range of color selections.
- B. Concealed Steel Items: Galvanized to ASTM A123; minimum 2.0 oz/sq ft coating thickness; Grade 85.
- C. Apply bituminous paint to concealed aluminum and steel surfaces in contact with cementitious or dissimilar metals.
- D. Touch-Up Primer for Galvanized Steel Surfaces: SSPC Paint 20 zinc rich.

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

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Section 01 30 00 - Administrative Requirements: Coordination and project conditions.
- B. Verify dimensions, tolerances, and method of attachment with other Work.
- C. Verify wall openings and adjoining air and vapor seal materials are ready to receive Work of this Section.

### 3.2 INSTALLATION

- A. Install wall system in accordance with AAMA MCWM-1 - Metal Curtain Wall, Window, Store Front and Entrance - Guide Specifications Manual.
- B. Install head and sill receptors with end dams.
- C. Attach to structure to permit sufficient adjustment to accommodate construction tolerances and other irregularities.
- D. Provide alignment attachments and shims to permanently fasten system to building structure.
- E. Align assembly plumb and level, free of warp or twist. Maintain assembly dimensional tolerances, aligning with adjacent Work.
- F. Provide thermal isolation where components penetrate or disrupt building insulation.
- G. Install sill flashings. Turn up ends and edges; seal to adjacent Work to form watertight dam.
- H. Coordinate attachment and seal of perimeter air and vapor retarder materials.
- I. Pack fibrous insulation in shim spaces at perimeter of assembly to maintain continuity of thermal barrier.
- J. Install integral flashings and integral joint sealers.
- K. Set thresholds in full bed of mastic and secure.



- L. Install hardware using templates provided. Refer to Section 08 71 00 for installation requirements.
- M. Coordinate installation of glass with Section 08 80 00; separate glass from metal surfaces.
- N. Coordinate installation of perimeter sealants with Section 07 90 00.

### 3.3 ERECTION TOLERANCES

- A. Section 01 40 00 - Quality Requirements: Tolerances.
- B. Maximum Variation from Plumb: 0.06 inches every 3 feet non-cumulative or 1/16 inches per 10 feet, whichever is less.
- C. Maximum Misalignment of Two Adjoining Members Abutting in Plane: 1/32 inch.

### 3.4 ADJUSTING

- A. Section 01 70 00 - Execution and Closeout Requirements: Testing, adjusting and balancing.
- B. Adjust operating hardware and sash for smooth operation.

### 3.5 CLEANING

- A. Section 01 70 00 - Execution and Closeout Requirements: Final cleaning.
- B. Remove protective material from pre-finished aluminum surfaces.
- C. Wash down surfaces with solution of mild detergent in warm water, applied with soft, clean wiping cloths. Take care to remove dirt from corners. Wipe surfaces clean.
- D. Remove excess sealant by method acceptable to sealant manufacturer.

### 3.6 PROTECTION OF INSTALLED CONSTRUCTION

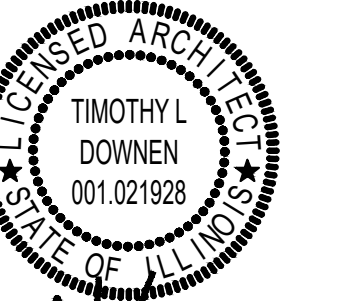
- A. Section 01 70 00 - Execution and Closeout Requirements: Protecting installed construction.
- B. Protect finished Work from damage.

END OF SECTION



Hurst-Rosche, Inc.  
PROFESSIONAL DESIGN NUMBER: 184-000298

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www.hurst-rosche.com  
EAST ST. LOUIS, IL  
MARION, IL  
ARNOLD, MO  
NEOSHO, MO  
NASHVILLE, TN



*[Signature]*

SIGNATURE: 02-10-2020  
DATE: 11-30-2020  
LICENSE EXPIRES:

SUMMER 2020 H/LS IMPROVEMENTS  
BID PACKAGE B: EXTERIOR IMPROVEMENTS  
EAST ALTON WOOD RIVER HIGH SCHOOL  
EAST ALTON WOOD RIVER CHSD #14  
777 NORTH WOOD RIVER AVENUE

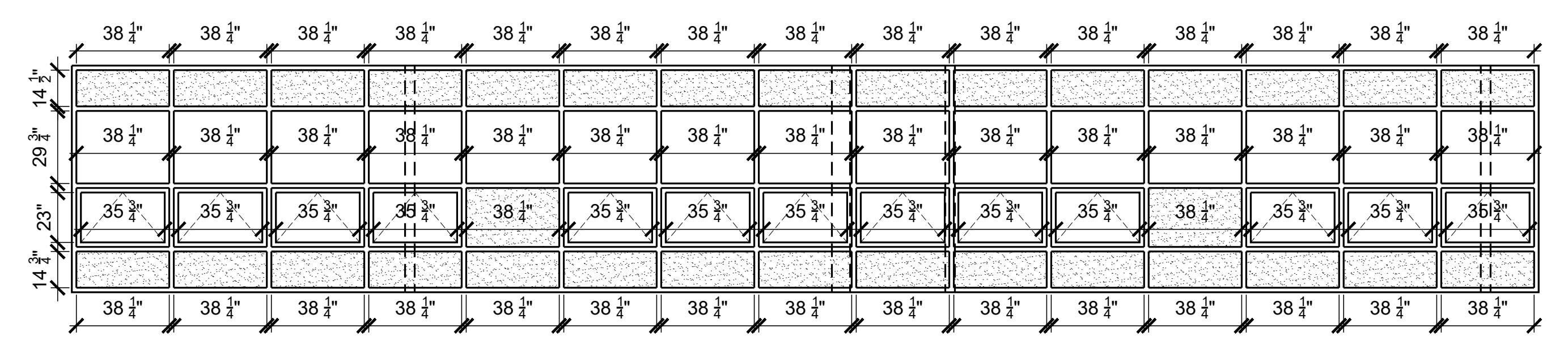
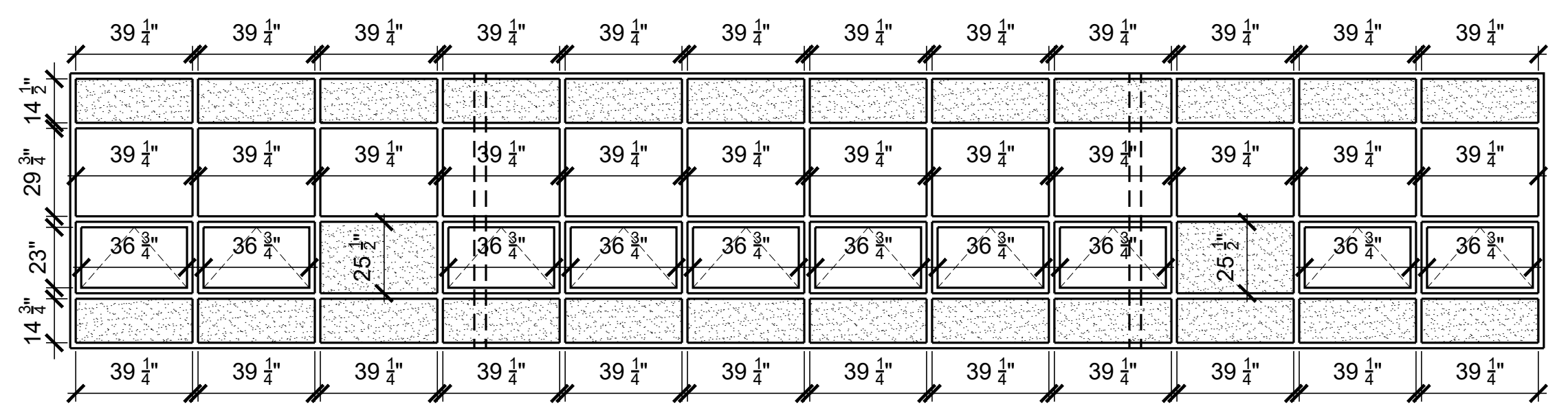
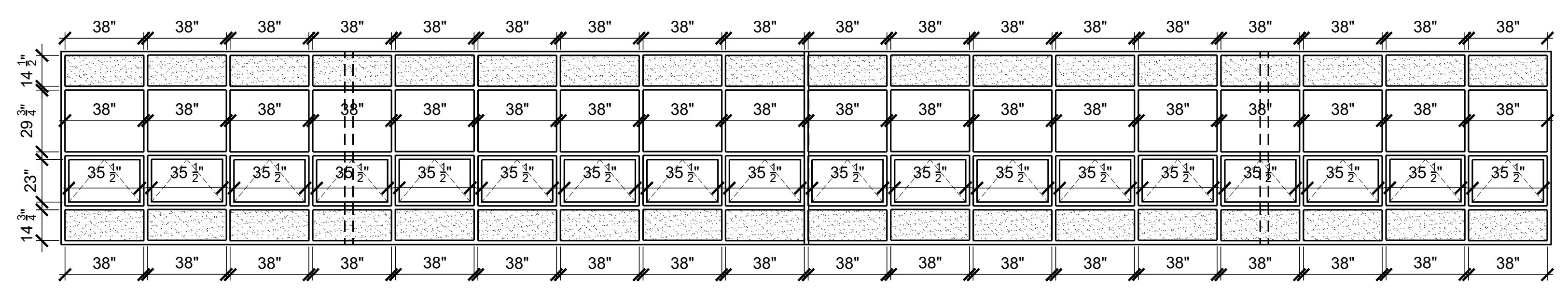
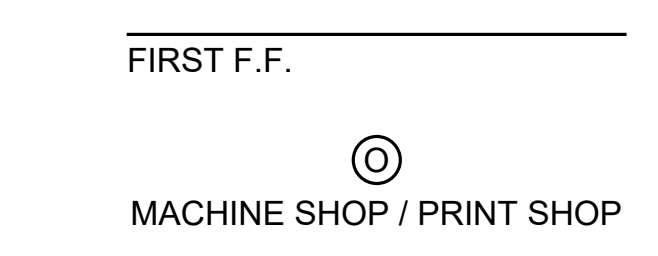
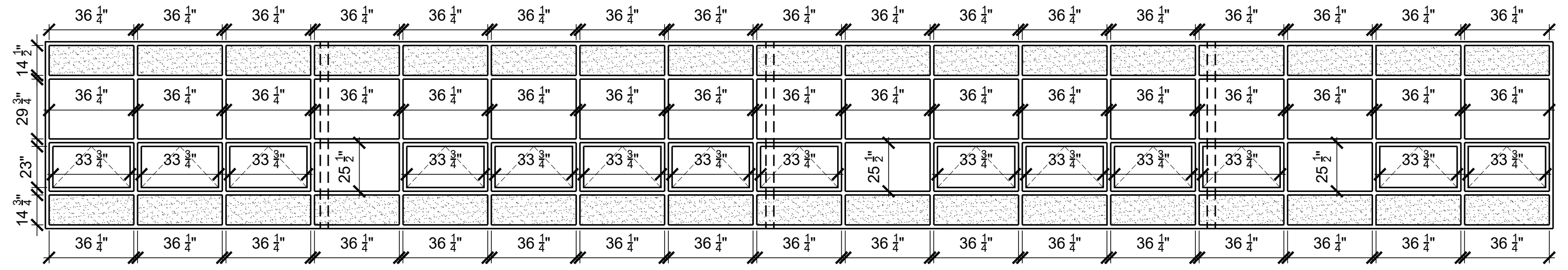
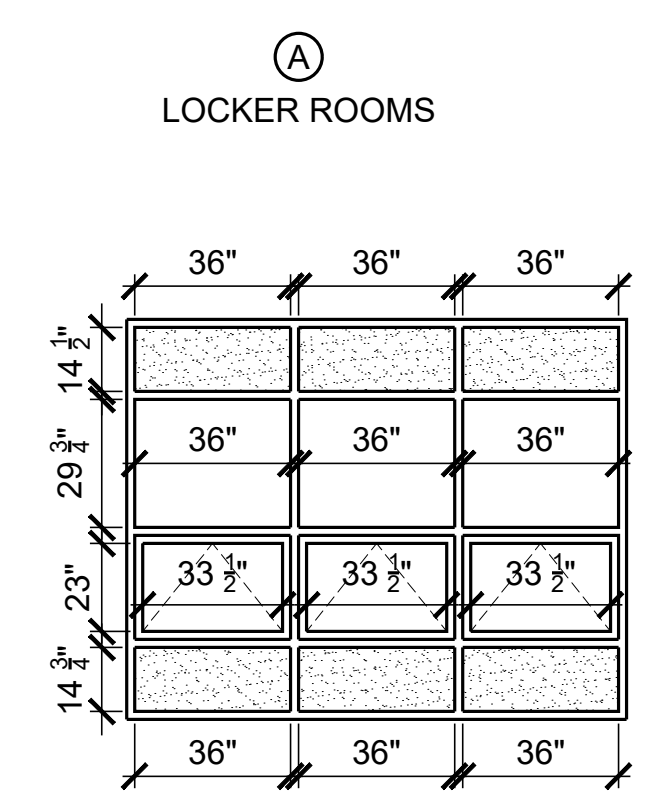
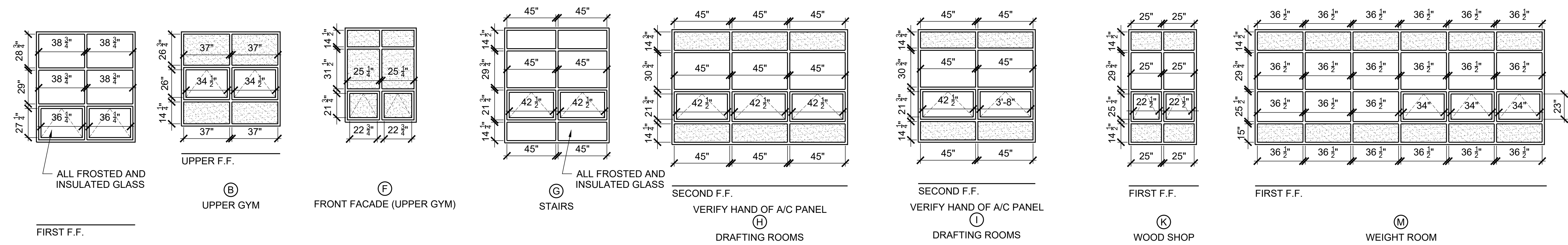
MARK	DATE	DESCRIPTION

DATE: 02-10-2020  
PROJECT NO: 150-2419  
DESIGN: TLD DRAWN: NAL CHECK: TLD

ADDENDUM #2, ATT. #6  
RE-GLAZING  
ELEVATIONS  
ALTERNATE BID #B2

A-301a

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- GENERAL NOTES:
1. ALL DIMENSIONS ARE TO THE EDGE OF FRAME WHERE GLASS OR PANEL BEGINS.
  2. ALL HATCHED AREAS ARE INSULATED METAL PANELS UNLESS OTHERWISE NOTED.
  3. ALL NON-HATCHED AREAS ARE INSULATED GLASS UNLESS OTHERWISE NOTED.
  4. ALL EXISTING ALUMINUM WINDOW FRAMES ARE TO REMAIN.
  5. ALL WORK TO EXISTING GLASS BLOCK AND HOLLOW METAL FRAMES AT FRONT OF GYMNASIUM (ELEVATIONS C THROUGH E) TO REMAIN AS INDICATED IN BASE BID DOCUMENTATION.
  6. SCRAPE, PREP, PRIME & PAINT ALL EXPOSED PORTIONS OF STEEL LINTELS AT OPENINGS THAT ARE TO RECEIVE WORK.
  7. SEE FLOOR PLAN AND FIELD VERIFY LOCATIONS WHERE EXISTING LOUVERS, STOREFRONT A/C UNITS OR OTHER ITEMS NEED TO BE INSTALLED IN NEW INSULATED METAL PANELS.
  8. PATCH, REPAIR AND RE-PAINT WALL MATERIALS AT OPENINGS TO RECEIVE WORK AS NECESSARY.
  9. CONTRACTOR TO WET SEAL NEW GLAZING & METAL PANELS PER SECTION 08 80 00.
  10. CONTRACTOR TO ALSO RESEAL PERIMETER OF EXISTING FRAMES WITH MATERIALS AS PER SECTION 07 90 00.
  11. SEE A-101 FOR FLOOR PLAN AND OPENING LOCATIONS.
  12. SEE A-201 FOR BUILDING ELEVATIONS AND STOREFRONT LOCATIONS.

1 A-301a RE-GLAZING ELEVATIONS  
SCALE: 1/4" = 1'-0"