



PROJECT: Old Beecher High School – Window Replacement
1020 West Coldwater, Flint, Michigan 48505

RDG Project No. 23357.0

DATE: December 14, 2023

ADDENDUM NO. 01

This Addendum amends the documents as described herein and becomes a part of the Bidding Documents. Receipt of this Addendum shall be noted in the Bid Submission.

ATTACHMENTS:

I SPECIFICATIONS:

- A. Add the following Specification Sections:
 - a. 015000 – TEMPORARY FACILITIES AND CONTROLS
 - b. 079200 – JOINT SEALANTS
- B. Remove and discard Table of Contents 001000. Replace current Table of Contents 001000 with attached Revised Table of Contents.
 - a. References to Specification Sections 055000 – METAL FABRICATIONS, 061000 – ROUGH CARPENTRY, and 076200 – SHEET METAL FLASING AND TRIM have been deleted.
- C. Remove and discard Section 082503 – ALUMINUM REPLACEMENT WINDOWS. Replace with attached Section 082503 – ALUMINUM REPLACEMENT WINDOWS (12/14/2023).

II DRAWINGS: NONE

III ITEMS FOR CLARIFICATION:

- A. Section 082503 – ALUMINUM REPLACEMENT WINDOWS – delete references to operable panes. All replacement windows will be fixed glazing only.
- B. Section 082503 – ALUMINUM REPLACEMENT WINDOWS – under paragraph “PRODUCTS”, subparagraph 2: replace the word “**include**” with the phrase “**include, but are not limited to**”. Alternate manufacturers able to meet basis-of-design criteria will be considered for inclusion in this RFP.
- C. No new curtainwall/storefront will be a part of this RFP. Delete references to new or replacement curtainwall or storefront on the drawings.
- D. Windows along the Coldwater Avenue side of the school building in the lower level classrooms and adjacent spaces will be furnished with an outer pane of heat-strengthened laminated glazing.
- E. **BIDDING REQUIREMENTS:** Bidders are directed to conform to the **INSTRUCTIONS TO BIDDERS** Section of the Specifications for additional bid submission requirements and documentation to be submitted with their sealed bids. Non-conformance with these requirements may disqualify bids from consideration.

7451 Third, Detroit, MI 48202
T: 313.873.3280
www.resendesgroup.com

TABLE OF CONTENTS

Division 1

001000	Table of Contents
001160	Invitation to Bid
004100	Bid Form
	Instructions to Bidders
010000	General Requirements
	AIA A101 – 2017 Amended Form of Agreement between Owner and Contractor
	AIA A101 – 2017 Exhibit A – Insurance and Bonds
	AIA A201 – 2017 General Conditions of the Contract for Construction
	Attachment A – Familial Disclosure Form
	Attachment B – Iran Economic Sanctions Act Certification
011000	Summary
012600	Contract Modification Procedures
012900	Payment Procedures
013300	Submittal Procedures
014000	Quality Requirements
014200	References
015000	Temporary Facilities and Controls
016000	Product Requirements
017290	Cutting and Patching
017300	Execution
017700	Closeout Procedures
017820	Operation and Maintenance Data
017890	Project Record Documents

VOLUME 2 – OUTLINE SPECIFICATIONS

Division 2 – 6 Not Used

Division 7

079200 Joint Sealants

Division 8

082503 Aluminum Replacement Windows

Division 9 – 16 Not Used

SECTION 015000 - TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes requirements for temporary utilities, support facilities, and security and protection facilities.
- B. See Division 01 Section "Execution" for progress cleaning requirements.

1.2 DEFINITIONS

- A. Permanent Enclosure: As determined by Architect, permanent or temporary roofing is complete, insulated, and weathertight; exterior walls are insulated and weathertight; and all openings are closed with permanent construction or substantial temporary closures.

1.3 USE CHARGES

- A. General: Cost or use charges for temporary facilities shall be included in the Contract Sum. Allow other entities to use temporary services and facilities without cost, including, but not limited to, Owner's construction forces, Architect, occupants of Project, testing agencies, and authorities having jurisdiction.
- B. Water Service: Water from Owner's existing water system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations.
- C. Electric Power Service: Electric power from Owner's existing system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations.

1.4 SUBMITTALS

- A. Site Plan: Show temporary facilities, utility hookups, staging areas, and parking areas for construction personnel.

1.5 QUALITY ASSURANCE

- A. Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
- B. Tests and Inspections: Arrange for authorities having jurisdiction to test and inspect each temporary utility before use. Obtain required certifications and permits.

1.6 PROJECT CONDITIONS

- A. Temporary Use of Permanent Facilities: Installer of each permanent service shall assume responsibility for operation, maintenance, and protection of each permanent service during its use as a construction facility before Owner's acceptance, regardless of previously assigned responsibilities.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Pavement: Comply with Division 02 pavement Sections.
- B. Chain-Link Fencing: Minimum 2-inch (50-mm), 0.148-inch- (3.76-mm-) thick, galvanized steel, chain-link fabric fencing; minimum 6 feet (1.8 m) high with galvanized steel pipe posts; minimum 2-3/8-inch- (60-mm) OD line posts and 2-7/8-inch- (73-mm-) OD corner and pull posts, with 1-5/8-inch- (42-mm-) OD top rails.
- C. Lumber and Plywood: Comply with requirements in Division 06 Section "Rough Carpentry."
- D. Gypsum Board: Minimum 5/8 inch (15 mm) thick by 48 inches (1219 mm) wide by maximum available lengths; type-X panels with tapered edges. Comply with ASTM C 36/C 36M.
- E. Insulation: Unfaced mineral-fiber blanket, manufactured from glass, slag wool, or rock wool; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively.

2.2 TEMPORARY FACILITIES

- A. Storage and Fabrication Sheds: Provide sheds sized, furnished, and equipped to accommodate materials and equipment for construction operations.

2.3 EQUIPMENT

- A. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.
- B. HVAC Equipment: Unless Owner authorizes use of permanent HVAC system, provide vented, self-contained, liquid-propane-gas or fuel-oil heaters with individual space thermostatic control.
 - 1. Use of gasoline-burning space heaters, open-flame heaters, or salamander-type heating units is prohibited.
 - 2. Heating Units: Listed and labeled for type of fuel being consumed, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
 - 3. Permanent HVAC System: If Owner authorizes use of permanent HVAC system for temporary use during construction, provide filter with MERV of 8 at each return air grille in system and remove at end of construction.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.
- B. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

3.2 TEMPORARY UTILITY INSTALLATION

- A. General: Install temporary service or connect to existing service.
 - 1. Arrange with utility company, Owner, and existing users for time when service can be interrupted, if necessary, to make connections for temporary services.
- B. Water Service: Use of Owner's existing water service facilities will be permitted, as long as facilities are cleaned and maintained in a condition acceptable to Owner. At Substantial Completion, restore these facilities to condition existing before initial use.
 - 1. Where installations below an outlet might be damaged by spillage or leakage, provide a drip pan of suitable size to minimize water damage. Drain accumulated water promptly from pans.
- C. Sanitary Facilities: Provide temporary toilets, wash facilities, and drinking water for use of construction personnel. Comply with authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.
- D. Heating and Cooling: Provide temporary heating and cooling required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of low temperatures or high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed.
- E. Ventilation and Humidity Control: Provide temporary ventilation required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed. Coordinate ventilation requirements to produce ambient condition required and minimize energy consumption.
- F. Electric Power Service: Provide electric power service and distribution system of sufficient size, capacity, and power characteristics required for construction operations.
 - 1. Install electric power service overhead, unless otherwise indicated.
 - 2. Connect temporary service to Owner's existing power source, as directed by Owner.
- G. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations, observations, inspections, and traffic conditions.
 - 1. Install and operate temporary lighting that fulfills security and protection requirements without operating entire system.
- H. Telephone Service: Provide temporary telephone service in common-use facilities for use by all construction personnel. Install one telephone line(s) for each field office.

1. Provide additional telephone lines for the following:
 - a. Provide a dedicated telephone line for each facsimile machine and computer in each field office.
 2. At each telephone, post a list of important telephone numbers including police and fire departments, Contractor's home office, Architect's office, Owner's office, Principal subcontractors' field and home offices.
 3. Provide superintendent with cellular telephone or portable two-way radio for use when away from field office.
- I. Electronic Communication Service: Provide temporary electronic communication service, including electronic mail in field office.

3.3 SUPPORT FACILITIES INSTALLATION

- A. General: Comply with the following:
1. Provide incombustible construction for offices, shops, and sheds located within construction area or within 30 feet (9 m) of building lines. Comply with NFPA 241.
 2. Maintain support facilities until near Substantial Completion. Remove before Substantial Completion. Personnel remaining after Substantial Completion will be permitted to use permanent facilities, under conditions acceptable to Owner.
- B. Temporary Roads and Paved Areas: Construct and maintain temporary roads and paved areas adequate for construction operations. Locate temporary roads and paved areas as indicated on Drawings.
1. Provide dust-control treatment that is nonpolluting and nontracking. Reapply treatment as required to minimize dust.
- C. Traffic Controls: Comply with requirements of authorities having jurisdiction.
1. Protect existing site improvements to remain including curbs, pavement, and utilities.
 2. Maintain access for fire-fighting equipment and access to fire hydrants.
- D. Parking: Provide temporary parking areas for construction personnel.
- E. Project Identification and Temporary Signs: Provide Project identification and other signs. Install signs where indicated to inform public and individuals seeking entrance to Project. Unauthorized signs are not permitted.
1. Provide temporary, directional signs for construction personnel and visitors.
 2. Maintain and touchup signs so they are legible at all times.
- F. Waste Disposal Facilities: Provide waste-collection containers in sizes adequate to handle waste from construction operations. Comply with requirements of authorities having jurisdiction. Comply with Division 01 Section "Execution" for progress cleaning requirements.
- G. Lifts and Hoists: Provide facilities necessary for hoisting materials and personnel.
1. Truck cranes and similar devices used for hoisting materials are considered "tools and equipment" and not temporary facilities.

3.4 SECURITY AND PROTECTION FACILITIES INSTALLATION

- A. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction in ways and by methods that comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
- B. Temporary Erosion and Sedimentation Control: Provide measures to prevent soil erosion and discharge of soil-bearing water runoff and airborne dust to adjacent properties and walkways, according to requirements of authorities having jurisdiction.
- C. Stormwater Control: Comply with authorities having jurisdiction. Provide barriers in and around excavations and subgrade construction to prevent flooding by runoff of stormwater from heavy rains.
- D. Tree and Plant Protection: Install temporary fencing located as indicated or outside the drip line of trees to protect vegetation from damage from construction operations. Protect tree root systems from damage, flooding, and erosion.
- E. Pest Control: Engage pest-control service to recommend practices to minimize attraction and harboring of rodents, roaches, and other pests and to perform extermination and control procedures at regular intervals so Project will be free of pests and their residues at Substantial Completion. Obtain extended warranty for Owner. Perform control operations lawfully, using environmentally safe materials.
- F. Site Enclosure Fence: Before construction operations begin, furnish and install site enclosure fence in a manner that will prevent people and animals from easily entering site except by entrance gates.
 - 1. Extent of Fence: As required to enclose entire Project site or portion determined sufficient to accommodate construction operations.
 - 2. Maintain security by limiting number of keys and restricting distribution to authorized personnel. Provide Owner with one set of keys.
- G. Security Enclosure and Lockup: Install substantial temporary enclosure around partially completed areas of construction. Provide lockable entrances to prevent unauthorized entrance, vandalism, theft, and similar violations of security.
- H. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.
- I. Temporary Enclosures: Provide temporary enclosures for protection of construction, in progress and completed, from exposure, foul weather, other construction operations, and similar activities. Provide temporary weathertight enclosure for building exterior.
 - 1. Where heating or cooling is needed and permanent enclosure is not complete, insulate temporary enclosures.
- J. Temporary Partitions: Provide floor-to-ceiling dustproof partitions to limit dust and dirt migration and to separate areas occupied by Owner from fumes and noise.
 - 1. Construct construction partitions with 5/8 inch type-X gypsum wallboard with joints taped on both sides. Construction partitions shall be equal to 1-hour rated construction, continuous from floor to deck and joints sealed for smoke protection.

- a. Construct vestibule and airlock at each entrance through temporary partition with not less than 48 inches (1219 mm) between doors. Maintain water-dampened foot mats in vestibule.
 2. Insulate partitions to provide noise protection to occupied areas.
 3. Seal joints and perimeter. Equip partitions with dustproof doors and security locks.
 4. Protect air-handling equipment.
 5. Weather strip openings.
 6. Provide walk-off mats at each entrance through temporary partition.
- K. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241.
1. Prohibit smoking in construction areas.
 2. Supervise welding operations, combustion-type temporary heating units, and similar sources of fire ignition according to requirements of authorities having jurisdiction.
 3. Develop and supervise an overall fire-prevention and -protection program for personnel at Project site. Review needs with local fire department and establish procedures to be followed. Instruct personnel in methods and procedures. Post warnings and information.
 4. Provide temporary standpipes and hoses for fire protection. Hang hoses with a warning sign stating that hoses are for fire-protection purposes only and are not to be removed. Match hose size with outlet size and equip with suitable nozzles.

3.5 OPERATION, TERMINATION, AND REMOVAL

- A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.
- B. Maintenance: Maintain facilities in good operating condition until removal.
1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24-hour basis where required to achieve indicated results and to avoid possibility of damage.
- C. Temporary Facility Changeover: Do not change over from using temporary security and protection facilities to permanent facilities until Substantial Completion.
- D. Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.
1. Materials and facilities that constitute temporary facilities are property of Contractor. Owner reserves right to take possession of Project identification signs.
 2. At Substantial Completion, clean and renovate permanent facilities used during construction period. Comply with final cleaning requirements specified in Division 01 Section "Closeout Procedures."

END OF SECTION 015000

SECTION 079200 - JOINT SEALANTS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data and color Samples.
- B. Environmental Limitations: Do not proceed with installation of joint sealants when ambient and substrate temperature conditions are outside limits permitted by joint sealant manufacturer or are below 40 deg F (4.4 deg C).

PART 2 - PRODUCTS

2.1 JOINT SEALANTS

- A. Compatibility: Provide joint sealants, joint fillers, and other related materials that are compatible with one another and with joint substrates under service and application conditions.
- B. See Division 07 Section "Through-penetration Firestopping" for sealants specific to penetration firestop assemblies.
- C. Sealant for Use in Building Expansion Joints:
 - 1. Single-component, neutral-curing silicone sealant, ASTM C 920, Type S; Grade NS; Class 25; Uses T, M, and O, with the additional capability to withstand 50 percent movement in both extension and compression for a total of 100 percent movement.
- D. Sealant for General Exterior Use Where Another Type Is Not Specified, One of the Following:
 - 1. Single-component, neutral-curing silicone sealant, ASTM C 920, Type S; Grade NS; Class 25; Uses T, NT, M, G, A, and O.
 - 2. Single-component, nonsag urethane sealant, ASTM C 920, Type S; Grade NS; Class 25; and Uses NT, M, A, and O.

2.2 JOINT-SEALANT BACKING

- A. General: Provide sealant backings of material and type that are nonstaining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by sealant manufacturer.
- B. Cylindrical Sealant Backings: ASTM C 1330, of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.
- C. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint-filler materials or joint surfaces at back of joint.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Comply with ASTM C 1193.
- B. Comply with ASTM C 919 for use of joint sealants in acoustical applications.

END OF SECTION 079200

SECTION 085203 - ALUMINUM REPLACEMENT WINDOWS

Scope:

1. Provide all labor, material and equipment necessary to remove and properly dispose of all existing window frames, sash and exterior trim.
 - a. Remove, salvage and reinstall all interior wood trim associated with window openings.
 - b. Provide new trim to match existing in locations where trim is missing or to replace material damaged during removal.
2. Furnish and install complete aluminum windows as shown on drawings and indicated in specifications.
 - a. Provide and install all sealant material at interface between windows and adjacent materials/finishes.
 - b. Remove loose paint and surface rust where encountered on existing lintels, to bare metal.
 - c. Prepare and paint using rust inhibitive primer prior to new window installation.

System Description:

1. Commercial quality, thermally broken aluminum frames and fixed sash with insulated glazing units.

Quality Assurance:

1. Submittals: Provide the following:
 - a. Product Data: Include construction details, material descriptions, fabrication methods, dimensions of individual components and profiles, hardware, finishes, and operating instructions for each type of aluminum window indicated.
 - b. Shop Drawings: Include plans, elevations, sections, details, hardware, attachments to other work, operational clearances and installation details.
 - c. Shop Drawings shall indicate locations and sizes of each window to be replaced, illustrated with building elevations.

Performance:

1. Air Infiltration: Window shall be tested in accordance with ASTM E 283.
 - a. Basic Wind Speed: 90 mph (40m/s).
2. Water Resistance: Window shall be tested in accordance with ASTM E 331.
 - a. No water leakage as tested per referenced test standard.
 - b. Test pressure: 20 percent of positive design pressure, but not less than 15 lbf/s.f. (720 Pa.).
3. Uniform Load Structural Test: The window unit shall be subjected separately to an exterior and interior uniform load test in accordance with ASTM-E-330.
4. Thermal Performance ("U" Value): Windows shall be tested in accordance with AAMA-1503.
 - a. When tested in accordance with AAMA-1503, thermal transmittance (U) shall not exceed 0.70.

5. Condensation Resistance Factor (CRF): Windows shall be tested in accordance with AAMA-1503.
 - a. When tested in accordance with AAMA-1503, the condensation resistance factor (CRF) shall not be less than 55.

Warranty:

1. The manufacturer shall guarantee the product against material defects and defects in manufacturing for a minimum period of five (5) years with an option to extend to ten (10) years.

Products:

1. Basis-of-Design Product: Subject to compliance with requirements, provide GRAHAM Architectural Products "Fixed Historic Window", Series SR6700 AW PG-110.
2. Additional Manufacturers' product which may be included in conformance with these specifications include, but are not limited to, the following:
 1. Wausau Window and Wall Systems; Series 8300i.
 2. St. Cloud Window Series SCW 3060.

Materials:

1. Frame, sash and exterior trim are to be constructed of extruded sections of aluminum, alloy 6063-T.
2. Glazing: Provide the following:
 - a. Unless otherwise noted, glazing to be 1" insulating units constructed using clear tempered glass, both panes.
 - b. All ground level glazing to be 1" insulating units constructed using clear laminated safety glass, exterior pane.
3. New frames and sash are to be provided with custom profiles that match existing in all aspects, shape size and location.
4. Rust preventive primer intended for exterior use is to be provided at exposed ferrous metals.

Finishes:

1. Provide manufactures standard finish coating.
 - a. Finish color and gloss to be selected by Architect. Provide manufacturer's full color and finish material selections for review.
2. Steel lintels exposed to exterior are to receive a coat of exterior quality rust inhibitive primer.

Installation:

1. Contractor shall survey the existing glazing installation and familiarize himself with the conditions under which the work is to be completed, and the details and configurations of the windows to be removed and replaced.
2. The Contractor shall be responsible for verifying the existing window sizes and for fabricating windows to suit. Dimensional errors shall be corrected at the Contractor's expense.
3. During demolition operations, the Contractor shall be responsible for removal of their debris and cleanup of said debris from the site. Debris and waste, including packaging and shipping materials, shall not be allowed to accumulate on site or inside the building between work days.
 - a. Contractor shall provide their own dumpster and be responsible for emptying and removal of same as required.
4. Contractor shall inspect all windows and related products and verify that all required materials have been delivered to the site.
5. Contractor shall be responsible to safely store all windows and related materials in such manner to prevent breakage or other loss at site.
 - a. Windows shall be unloaded and stored in a manner to prevent twisting, warping or undue mechanical stress on the units and components.
 - b. Contractor shall replace any damaged components with new materials to match.

END OF SECTION 085203