

**PROJECT #1926
Exterior Door Replacement
Various Sites
WICHITA, KANSAS**

FEBRUARY 2019

**UNIFIED SCHOOL DISTRICT #259
SEDGWICK COUNTY
WICHITA, KANSAS**

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THE WICHITA PUBLIC SCHOOLS DOES NOT DISCRIMINATE ON THE BASIS OF RACE, COLOR, ANCESTRY, NATIONAL ORIGIN, RELIGION, SEX, DISABILITY, AGE, VETERAN STATUS, OR ANY OTHER LEGALLY PROTECTED CLASSIFICATION. PERSONS HAVING INQUIRIES MAY CONTACT THE SCHOOL DISTRICT'S TITLE IX DIRECTOR/ADA/SECTION 504 COORDINATOR FOR ADULTS AT (316) 973-4420, OR SECTION 504 COORDINATOR FOR STUDENTS AT (316) 973-4650, 903 S. EDGEMOOR WICHITA, KS 67218.

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SECTION 00020
INVITATION TO BID

Bid #19-42-0026

Notice is given hereby that the
BOARD OF EDUCATION
UNIFIED SCHOOL DISTRICT NO. 259
WICHITA, KANSAS

will accept proposals for

EXTERIOR DOOR REPLACEMENT
VARIOUS SITES

According to Drawings and Specifications prepared.

Bid Opening: March 7, 2019 3:00 p.m.

Sealed bids will be received on E-Bid by the Owner at the USD 259 Service Center, 3850 North Hydraulic, Wichita, KS 67219, on or before the date and time specified above or as directed by an authorized USD 259 addendum. The time of receipt shall be determined by the time clock stamp on E-Bid. Bids received after that time will not be accepted. Bids will be opened and read aloud at the Alvin E. Morris Administrative Center, Purchasing Conference Room 205, 903 S Edgemoor, Wichita, KS 67218. Interested parties are invited to attend.

Proposed Contract Documents are available to be examined at: **Owner's Office, School Service Center, 3850 North Hydraulic, Wichita, KS 67219.**

Bid security in the amount of 5% of the base bid will be required to accompany bids. These will need to be scanned into the E-Bid System prior to bid closing. The original bid bond must be received by Director of Design and Construction at 3850 N Hydraulic Wichita, KS 67219 before contract will be signed and sent to successful bidder. Proposal bonds/bid or cashiers/certified checks will be acceptable. Personal checks or business checks will NOT be accepted.

The Prime Contractor can submit a bid for this project. For purposes herein the Prime Contractor means: the district Pre-Approved General Contractor. See specifications INSTRUCTIONS TO BIDDERS – Section 00100, SUBCONTRACTORS 1.15 for subcontractor pre-approval requirements.

All bid specification and drawing questions must be submitted by email, by the date and time specified on E-Bid, enabling the Project Representative to provide a well-researched answer to all bidding parties and issue a response by addendum.

The owner reserves the right to reject any or all proposals and to waive irregularity in the bidding process.

USD 259 desires to allow as many vendors as possible the opportunity to participate, including DBE (Disadvantaged Business Enterprise), MBE (Minority Business Enterprise) and WBE (Women's Business Enterprise) businesses, in the roles of providing goods and services to the District. If your company is not a DBE, MBE or WBE, your efforts to contract with vendors who are DBE's, MBE's or WBE's, will be appreciated.

Any visitor entering any USD 259 school – who will have the opportunity to interact with students during bell hours – will be required to sign in using this system. *Bell hours are 10 minutes before and 10 minutes after the period of a normal school day (ex: 7:50 a.m. to 3:20 p.m. for an 8 a.m. start school).*

Visitors who will be required to use this system include:

- *Parents, guardians and other visitors who will volunteer in or observe classrooms or student activity areas.*
- *Parents, guardians or other appropriate visitors who eat lunch with their student, who may be at school for a birthday celebration or classroom activity, or who may drive for a field trip.*
- *Vendors and other community partners who have access to our building's hallways to execute their work duties.*

Driver's license or government-issued ID card will be used to check you in to the building. Name and birthdate will be instantly captured, and within seconds, you will receive a date-specific visitors ID badge to wear in school. Visitor IDs will be scanned against national sexual offender data bases to ensure the safety and security of our school environment. This will occur in a matter of seconds. Should a non-authorized visitor attempt to enter a school, both school leaders and our district's safety personnel will be alerted.

Each time a visitor checks in, a custom ID badge will be provided.

WHENEVER vendors are at a District site, they must have a photo ID badge with their company name, and sign in at the office immediately upon arrival if the office is open.

SECTION 00100
INSTRUCTIONS TO BIDDERS

1.01 THE WORK:

EXTERIOR DOOR REPLACEMENT

- A. Kensler Elementary School: Replace existing door system at Doors #1 & #14 with new aluminum store front system of similar layout.
- B. McCollom Elementary School: Replace existing door system at Doors #1, #2, #3, #4 & #5 with new aluminum store front system of similar layout.
- C. Minneha Core Knowledge Magnet School: Replace existing door system at Door #3 with new aluminum store front system of similar layout.

1.02 SECURING DOCUMENTS

- A. Copies of the proposed Contract Documents may be obtained from: USD# 259 via E-Bid at <https://259ebid.ionwave.net/Login.aspx>

1.03 BID

- A. In order to receive consideration, make proposals in strict accordance with the following.
 - 1. Make proposals using the E-Bid System with all items filled out. Unauthorized conditions, limitations, or provisions listed on the proposal will be cause for rejection of the bid. If authorized explanations are made for any reason, explain with a signed statement from the bidder.
 - 2. No telegraphic/faxed proposal will be considered. No proposals received after the time fixed for receiving them will be considered. Late proposals will not be accepted by the E-Bid System. It is the sole responsibility of the bidder to see that his proposal or modification is received on time.

1.04 BONDS

- A. Bid security in the amount stated in the invitation to bid must accompany each bid as a scanned document. The successful bidder's security will be retained until he has signed the Contract and has furnished the required Bonds and Certificates of Insurance.
- B. The Owner reserves the right to retain the security of all bidders until the successful bidder enters into the Contract or until 30 days after bid opening, whichever is sooner. Other bid security will be returned as soon as practicable. If any bidder refuses to enter into a Contract, the Owner may retain his bid security as liquidated damages but not as a penalty.

- C. Prior to signing the Contract, the Owner will require the successful bidder to secure and post a Kansas Statutory Payment Bond and an AIA A-312 Performance Bond and Payment Bond in full amount of the Contract Sum to cover faithful performance of the contract and payment of all obligations arising thereunder. Such bonds shall be issued by Surety approved by the Owner and authorized to transact business in Kansas. Costs of such bonds will be included in the proposed bid.

1.05 EXAMINATION OF DOCUMENTS AND SITES OF WORK

- A. Before submitting a proposal, each bidder shall examine carefully all Contract Documents and must visit the sites of the Work. Each bidder shall fully inform himself prior to bidding as to existing conditions and limitations under which the work is to be performed, and shall include in his bid a sum to cover the cost of items necessary to perform the Work as set forth in the Contract Documents. All project dimensions and quantities must be field verified by the bidder. No allowance will be made to a bidder because of lack of such examination or knowledge. The submission of a proposal will be considered as conclusive evidence that the bidder has made such examination.
- B. All bid specification and drawing questions must be submitted by email, prior to bid date, enabling the Project Representative to provide a well-researched answer to all bidding parties and issue a response by addendum.

1.06 PROOF OF COMPETENCY OF BIDDER

- A. The bidder will be required to complete and file with the Owner a contractor's qualification form AIA #A305 prior to requesting permission to bid the project. A bidder may be required to furnish further evidence satisfactory to the Owner that he and his proposed subcontractors have sufficient means and experience in the types of work called for, to assure completion of the contract in a satisfactory manner.

1.07 WITHDRAWAL OF BIDS

- A. Bidder may withdraw his proposal, using the E-Bid System at any time prior to the scheduled that the bid is to close.
- B. No bidder may withdraw his proposal for a period of ninety calendar days after the date set for opening thereof, and bids shall be subject to acceptance by the owner during this period.

1.08 AWARD OR REJECTION OF BIDS

- A. The Contract, if awarded, will be awarded to the responsible bidder who has proposed the lowest total bid, subject to the Owner's right to reject any or all bids and to waive informality and irregularity in the bids and in the bidding. The Owner reserves the right to award a contract to one or more responsible bidders if more than one contract is deemed advantageous to the District. If more than one bidder is selected, each bidder will be awarded a contract for their bid for that site. Owner reserves the right to award a contract(s) for some of the schools, but not all of them.

1.09 EXECUTION OF AGREEMENT

- A. The form of agreement which the successful bidder will be required to execute is included in the Project Manual.
- B. The bidder to whom the Contract is awarded shall, within five calendar days after notice of award and receipt of Agreement forms from the Owner, sign and deliver required copies to the Owner.
- C. At or prior to delivery of the signed Agreement, the bidder to whom the Contract is awarded shall deliver to the Owner those Certificates of Insurance required by the Contract Documents, Certification Regarding Debarment and Suspension statement and such Bonds as are required by the Owner.
- D. Bonds and certificates of Insurance shall be approved by the Owner before the successful bidder may proceed with the Work. Delay in providing Bonds or certificates of Insurance in a form satisfactory to the Owner shall not extend contract completion time.
- E. In scheduling, allow at least ten working days for obtaining signatures from owner on contracts.
- F. The successful bidder must have on file with the owner a Taxpayer Identification Number Form (substitute W-9 form). A copy of this form is included on E-Bid. This form is not required at the bid opening but should be completed and returned to Purchasing Department, 903 S. Edgemoor, Wichita, KS 67218.
- G. Upon receipt of the signed Agreement, contractor shall provide list of sub-contractors complete with contact name, address and phone number, their ethnicity and indicating whether they are MBE (Minority Business Enterprise) or WBE (Woman's Business Enterprise), etc. and the cost for their portion of the work. A form for that purpose is on E-Bid.
- H. Failure to sign and submit Certification Regarding Debarment and Suspension statement with the bid (on E-Bid) may be cause for rejection of bid.

1.10 CONSTRUCTION TIME AND LIQUIDATED DAMAGES

- A. The agreement will include a stipulation that the work will be completed on or before August 2, 2019 following receipt of the Owner's Notice to Proceed.

NIGHTS AND WEEKEND WORK WILL BE ALLOWED.

- B. Time is of the essence of this Agreement and Owner will suffer financial loss if the Work is not completed within the time specified in A above plus any extensions granted in accordance with 4.3.7 of District Modified AIA Document A201-2007. The amount of actual damages the Owner will incur from a delay of completion of the Work is not easily and readily determinable. Accordingly, instead of requiring proof, Contractor shall pay to Owner liquidated damages for delay (but not as a penalty) the sum of Two Hundred Dollars (\$200.00) per calendar day, per site after the agreed Substantial Completion Date that the Work is not certified by the Owner as being substantially complete.

1.11 EQUAL EMPLOYMENT OPPORTUNITY

- A. Each Bidder is required to submit with his proposal, (unless he has on file with the Owner his firm's Equal Employment Opportunities Plan), a written statement as to what affirmative action has been or will be taken which will result in Equal Employment Opportunity. The statement should not be limited to minority races but should include economically disadvantaged.
- B. The successful bidder hereby agrees that as the Contractor, he shall observe the provisions of the Kansas Act Against Discrimination and shall not discriminate against any person in the performance of work under the contract because of race, religion, color, sex, national origin, ancestry or handicap.
- C. In all solicitations or advertisements for employees, he shall include the phrase "equal opportunity employer," or a similar phrase to be approved by the Kansas Commission on Civil Rights.
- D. If the Contractor fails to comply with the manner in which he reports to the Kansas Commission on Civil Rights in accordance with the provisions of the Kansas Act Against Discrimination, he shall be deemed to have breached the present contract and it may be canceled, terminated or suspended, in whole or in part, by the Board of Education.
- E. If the Contractor is found guilty of a violation of the Kansas Act Against Discrimination under a decision or order of the Kansas Commission of Civil Rights which has become final, he shall be deemed to have breached the present contract and it may be canceled, terminated or suspended, in whole or in part, by the Board of Education.
- F. The contractor shall include all the above provisions in every subcontract or purchase order so that such provisions will be binding upon such subcontractor or vendor.

1.12 PLAN REVIEW AND PERMIT FEE

- A. Plan Review and Permit fees, shall be included in the base bid and are the responsibility of the Contractor.
- B. The contractor shall secure an additional set of approved prints from the approving authority and forward to the Owner when approval has been granted.

1.13 MATERIAL SUBSTITUTIONS

- A. Substitutions will not be allowed on this project.

1.14 FORMS INCLUDED ON E-BID

- A. Samples of forms to be used in the course of this contract are included on E-Bid for clarification purposes only. It is the responsibility of the contractor to use AIA forms in conformance with copyright laws.

1.15 SUBCONTRACTORS

- A. If major subcontractors are required on the project, the proposed subcontractors shall be listed on the bid form on E-Bid in the area provided. Only Subcontractors that have been approved by the owner prior to the bid letting shall be proposed. Proposing Subcontractors not approved by owner may be cause for rejection of bid. Proposed Subcontractors shall not be changed after the awarding of the contract. The Approved Contractors List can be found on our website at <http://www.usd259.org> on the Design and Constructions Department page.
- B. The following Contractors require Approval:
 - a. General Contractors
 - b. Asbestos Contractors
 - c. Mechanical Contractors
 - d. Electrical Contractors
 - e. Data Communication/Leviton
 - f. Turf Field System Contractors
 - g. Tennis Court Installation Contractors
 - h. Swimming Pool Installation Contractors
 - i. Track Installation Contractors
 - j. Davis-Bacon General Contractors

SECTION 00700
AIA GENERAL CONDITIONS

DISTRICT MODIFIED AIA DOCUMENT A 201 "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION", 2007 EDITION, HEREINAFTER REFERRED TO AS "AIA GENERAL CONDITIONS", IS HEREBY MADE A PART OF THIS SPECIFICATION, AS IF HERETO ATTACHED OR HEREIN REPEATED. THE CONTRACTOR SHALL CONSULT THIS DOCUMENT AND BECOME INTIMATELY FAMILIAR WITH ITS CONTENTS BEFORE SUBMITTING HIS BID. COPIES ARE AVAILABLE AND ATTACHED IN THE E-BID SYSTEM. THE AIA ADDITIONS AND DELETIONS REPORT IS AVAILABLE UPON REQUEST.

SECTION 00800
SUPPLEMENTARY CONDITIONS

PART 1 GENERAL

1.01 GENERAL CONDITIONS

- A. The General Conditions of the Contract for Construction No. A-201, latest edition, as published by the American Institute of Architects, except as the same may be modified herewith, is hereby made a part of the Contract Documents.

1.02 WARRANTY

- A. One-year warranty is required on this project.
- B. Costs of repair or replacement shall not accrue to the owner including repair or replacement of other work disturbed by or because of repair or replacement.
- C. Guarantees which are standard guarantees provided by a manufacturer for this product shall be received by the contractor filled out completely and filed with the company for the owner. Certificates or registration stubs shall be included with the as built drawings submitted for the owner upon completion of the work.
- D. When written guarantee is required the document shall include the following information:
 - 1.
 - a. Name and address of project and owner
 - b. Article, and material or system covered,
 - c. Name and address of installing contractor,
 - d. Name and address of prime contractor,
 - e. Signature of individual authorized to sign contracts for the company issuing the guarantee.
 - 2. The following terms (minimum) shall be incorporated: One year or as specified from "date of substantial completion". The article, material or system is free from defective materials or workmanship.

1.03 TAXES IN LIEU OF GENERAL CONDITION

- A. Materials and equipment incorporated into this project are exempt from the payment of sales tax under the laws of the State of Kansas, and such sales tax shall not be included in the proposal of the Bidder. Excise tax or hidden tax shall be paid by the Contractor and be included in the proposal of the Bidder.
- B. The Owner will provide the Contractor with an exemption number within ten days of the contract date. Should the Owner fail to provide an exemption certificate to the contractor, the Contractor shall immediately notify the Owner in writing.

- C. Upon issuance of a proper exemption certificate to the Contractor, the contractor shall assume full responsibility for his own proper use of the certificate, and shall pay all the cost of any legally assessed penalties relating to the Contractor's improper use of the exemption certificate. The contractor shall comply with all statutes of the State of Kansas related to sales tax exemption.
- D. A State of Kansas project completion certificate shall be presented to the owner upon completion of the job.

1.04 SAFETY OF PERSONS AND PROPERTY

- A. The Contractor shall take all reasonable precautions for the safety of, and shall provide all reasonable protection to prevent damage, injury or loss to:
 - 1. All employees on the Work and all other persons who may be affected thereby.
 - 2. All the Work and all materials and equipment to be incorporated therein, whether in storage on or off the site.
- B. The Contractor shall comply with all applicable laws, ordinances, rules, regulations and orders of any public authority having jurisdiction for the safety of persons or property, to protect them from damage, injury or loss. He shall erect and maintain, as required by existing conditions and progress of the Work, all reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards, promulgating safety regulations and notifying owners and users of adjacent utilities.

1.05 INSURANCE

If at any time during the term of this contract or any extension thereof, any required policies of insurance should expire, or are canceled, it will be the responsibility of the contractor to furnish USD 259 a Certificate of Insurance indicating renewal or an acceptable replacement of the expiring policy prior to the expiration or cancellation date so that there will be no lapse in any coverage. USD 259 shall be named as an additional insured. The following minimum coverage is generally required of vendors providing services:

Contractor shall provide the following minimum insurance coverage.

The requirements set forth below are based on insurance provisions and requirements set for in Article 11 of District Modified AIA Document A201, General conditions of the contract for Construction, and the completion of these instructions is presumed to be based thereon.

A. CONTRACTOR’S LIABILITY INSURANCE

Concerning the insurance described in Paragraph 11.1 of District Modified AIA Document A201, 2007 Edition, specify the following limits:

1. Worker’s Compensation and Employers Liability: Statutory

Bodily Injury by Accident	\$100,000 Each Accident
Bodily Injury by Disease	\$500,000 Policy Limit
Bodily Injury by Disease	\$100,000 Each Employee

Officers who will be on the job site SHALL be included.

2. Commercial General Liability (including Premises-Operations; Products and Completed Operations, XCU cannot be excluded)

Each Occurrence Limit	\$1,000,000
General Aggregate Limit	\$2,000,000
Products/Completed Operations Aggregate Limit	\$2,000,000
Personal and Advertising Injury Limit	\$1,000,000

The General Liability policy shall include a General Aggregate. Such General Aggregate shall be not less than \$2,000,000. Policy shall be endorsed to have a per project aggregate.

3. Umbrella Excess Liability:

Each Occurrence Limit	\$2,000,000
Aggregate	\$2,000,000

4. Automobile Liability (owned, non-owned, hired):

Bodily Injury:	
\$ Each Person	\$ 250,000
\$ Each Accident	\$ 500,000
Property Damage:	
\$ Each Occurrence	\$ 250,000
or	\$1,000,000 combined single limit

B. PROPERTY INSURANCE

Concerning the insurance described in Paragraphs 11.2 and 11.4 of AIA Document A201, 2007 Edition, Owner will purchase the insurance in the amounts deemed to be in the public interest that is described in Paragraphs 11.2 and 11.4 of AIA Document A201, 2007 Edition.

EXCEPTION: On contracts under \$500,000, the contractor shall provide Builder’s Risk coverage or an Installation policy, whichever is applicable.

C. PROFESSIONAL LIABILITY INSURANCE

The insurance requirements have been specified at 3.12.10 of the General Conditions (AIA A201).

D. BONDS

(a) A Performance Bond, Payment Bond and Statutory Bond as described in Paragraph 11.5 of AIA Document A201, 2007 Edition, and in the Additional Documents as that term is defined in Paragraph 1.1.1 of AIA Document A201, 2007 Edition, shall be provided in the following amounts:

Performance Bond	100% of Contract Sum
Payment Bond	100% of Contract Sum
Statutory Bond	100% of Contract Sum

(b) The Performance and Payment Bond shall be in the form set forth in AIA Document A312 as attached hereto as Attachment “A”, and the Statutory Bond shall be in the form attached hereto as Attachment “B”.

1. DEDUCTIBLE

Deductibles shall not exceed \$5,000. Deductibles are the responsibility of the Contractor.

Liability Insurance coverage shall be considered as Primary and not as excess insurance. The Carrier(s) shall provide thirty (30) days written notice to USD 259 by Registered Mail prior to any modification, cancellation, non-renewal or other change in coverage. The policies must be effective prior to the commencement of work and must remain in force until termination of work under this contract. In the event of interruption of coverage for any reason, all work under the contract shall cease and shall not resume until coverage has been restored.

1.06 BONDS

A. Performance Bond and Labor and Material Payment Bond

1. On Contracts exceeding \$100,000, the Contractor shall pay premium for and furnish an AIA Payment and Performance Bond and a Kansas Statutory (Labor and Material Payment) Bond, in full amount of the Contract Sum to cover faithful performance of the Contract and payment of all obligations arising thereunder, within ten calendar days after award of the contract. Furnish bonds and with sureties approved by the Owner and authorized to transact business in Kansas. Furnish evidence showing a Kansas Statutory Bond has been filed with the clerk of the District Court in the County in which the project is to be constructed. Provide two (2) original copies of each of the required bonds to the staff Owner or the Project Representative.

1.07 OWNER'S PROJECT REPRESENTATIVE

- A. The Owner as referred to in this specification and as defined in 4.1 of the general conditions means the Owner or the Owners authorized representative. This person is identified by the Owner on the cover sheet of this document. Communications/requests from any other USD #259 personnel shall be discussed with the Owner or the Owners designated representative for a final decision.

1.08 SEXUAL HARASSMENT

- A. The contractor shall comply with all City, State and Federal laws, rules, regulations and ordinances pertaining to sexual harassment in regard to USD 259 employees, USD 259 pupils or other individuals on USD 259 property.
- B. If an employee of a contractor or subcontractor is suspected of sexual harassment on USD 259 property, the individual will be reported to the contracting entity. In addition, the suspected individual will be reported to the contracting entity. In addition, the suspected individual/s may not be allowed to continue to work at the site.
- C. Failure on the part of the contracting entity to insure employee/sub-contractor compliance with the applicable regulations may result in:
1. Revocation of current contracts.
 2. Elimination of the contractor from the approved bidders list.

- D. Sexual harassment may include, but is not limited to:
1. Sexually oriented communication, including sexually oriented verbal “kidding” or harassment or abuse.
 2. Subtle pressure or requests for sexual activity.
 3. Unwelcome attempts to change a professional relationship into a personal, social-sexual relationship.
 4. Creating a hostile work or learning environment, including the use of innuendoes or overt or implied threats.
 5. Unnecessary touching of individual, e.g., patting, pinching, hugging, repeated brushing against another person’s body.
 6. Requesting or demanding sexual favors accompanied by implied or overt threats concerning an individual’s employment.
 7. Requesting or demanding sexual favors accompanied by an implied or overt promise of preferential treatment with regard to an individual’s employment.
 8. Sexual assault or battery as defined by law.

1.09 IMMIGRATION AND NATIONALITY ACT

- A. Unified School District 259 actively supports the Immigration & Nationality Act (INA) which includes provisions addressing employment eligibility, employment verification, and nondiscrimination. Under the INA, employers may hire only persons who may legally work in the United States (i.e., citizens and nationals of the U.S.) and aliens authorized to work in the U.S. The employer must verify the identity and employment eligibility of anyone to be hired, which includes completing the Employment Eligibility Verification Form (I-9). The contractor shall establish appropriate procedures and controls so no services or products in response to this Request for Bid/Proposal will be performed or manufactured by any worker who is not legally eligible to perform such services or employment.

1.10 HAZARDOUS MATERIALS

- A. Asbestos-containing building materials (ACBM) are present in nearly all of the buildings throughout the District. The contractor can determine the locations of ACBM from the Asbestos Management Plans located in each of the school buildings or by calling the Environmental Services Department at 973-2006 for assistance.

SECTION 01010
GENERAL REQUIREMENTS

SUMMARY OF WORK

1.01 SCHEDULE

- A. A written schedule shall be prepared and submitted to the Project Representative for approval.

1.02 ACCESS TO BUILDING

- A. The Contractor shall cooperate with the administration at the site of the work and the Project Representative. The Contractor shall sign in if required by the building administration or shall use other means as required for communicating their presence at the site.
- B. The contractor shall cooperate with the administration on working hours. If extended work hours are needed to complete the work, the contractor shall notify the Project Representative 48 hours in advance of the need for access to the building.

1.03 NO TOBACCO

- A. There is absolutely no tobacco use on any USD 259 property.

1.04 BEHAVIOR STANDARDS

- A. The contractor and employees shall exercise discretion in language, behavior, etc. when working on school properties.

1.05 IDENTIFICATION

- A. **Contractor must wear a photo ID while working at school sites.**

1.06 KEYS

- A. Keys to U.S.D. #259 property will be loaned to persons not employed by U.S.D. #259 under the conditions as listed below. Keys will be loaned as a supplemental condition of the contract for construction. The keys will be issued to the General contractor only. The General Contractor will be totally responsible for proper use of the key and for maintaining security at the building site.
- B. When borrowing a key(s), and by signing below, we agree that;
 1. Keys are the property of U.S.D. #259.
 2. Keys will **NOT** be duplicated when loaned.
 3. Additional keys will **NOT** be borrowed from site personnel.
 4. All keys will be returned at one time upon completion of the project.

5. Final payment will be made only after return of all keys and/or payment of all fines related to key use.
6. Lost keys will be reported immediately to the project representative.
7. The project representative will at all times know the location of and be responsible for all key(s) loaned to the contractor.
8. Persons entering the building with loaned keys will:
 - a. Contact security dispatch (973-2100) immediately prior to entering the building. Give security your name, your company name, your cell phone number and your proposed schedule for occupying the building.
 - b. Disengage the alarm upon entering the building.
 - c. Keep the entrances monitored or locked when using the building.
 - d. Verify windows and doors are closed and securely locked when leaving the building.
 - e. Re-activate the alarm when leaving the building.
 - f. Contact security dispatch immediately upon departure of the building.
9. If keys are lost the following charges will be incurred:
 - a. High School Keys \$1,200.00 per site
 - b. Middle School Keys \$800.00 per site
 - c. Elementary School Keys \$500.00 per site
10. If it is feasible at a site for the contractor to have access at only one exterior door and the District can install a contractor cylinder, the charge for a lost “contractor key” shall be \$100.00.
11. If the contractor fails to notify security prior to building entry, it will trigger a false alarm and U.S.D. #259 security and/or Wichita Police will be contacted and dispatched. The contractor will be charged for false alarms at a rate of \$50 for the first alarm, and \$75 each alarm thereafter.
12. Any failure on the part of the contractor to abide by any or all of these procedures and/or repeated loss of keys or false alarms may be cause for the loss of the privilege of a loaned key.

1.07 RESTROOM ACCOMMODATIONS

- A. Restroom accommodations for contractor employees must be provided by Contractor in a separate structure.

SECTION 01152
APPLICATION FOR PAYMENT

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Work included: Comply with procedures described in this Section when applying for progress payment and final payment under the Contract.
- B. Related work:
 - 1. Documents affecting work of this Section include, but are not necessarily limited to, General Conditions, Supplementary Conditions, and Sections in Division 1 of these Specifications.
 - 2. The Contract Sum and the schedule for payments are described in the form of Agreement.
 - 3. Payments upon Substantial Completion and Completion of the Work are described in the General Conditions.

1.02 QUALITY ASSURANCE

- A. Provide a schedule of values as required to be submitted under Paragraph 9.2 of the General Conditions to the Owner for approval.
- B. Base requests for payment on the portions of the work completed as described on the schedule of values.
- C. A retainage of 5% of completed and stored will be withheld from each payment until final payment.

1.03 SUBMITTALS

- A. Informal submittal: (Unless otherwise directed by the Owner:)
 - 1. Make an informal submittal of request for payment to the Owner by filling in, with erasable pencil, pertinent portions of an AIA G702 and AIA G703 Certificate for Payment.
 - 2. Make this preliminary submittal to the Owner between 15th/20th of the month.
 - 3. Revise the informal submittal of request for payment as agreed.

- B. Formal submittal: (Unless otherwise directed by the Owner)
1. Make formal submittal of request for payment by filling in the agreed data, by typewriter or neat lettering in ink, on an AIA G702 and G703 Application for Payment.
 2. Submit two original copies of the application and Certificate for Payment, to the Owner on or before the 20th of each month.
 3. Sign and notarize both original copies of the application and Certificate for payment.
 4. The Owner, when submittal is approved, will sign the application and Certificate for Payment, and will distribute.
 - a. One copy to Accounts Payable.
 - b. One copy to the Owner's file.

SECTION 01153
CHANGE ORDER PROCEDURE

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Work included: Make such changes in the work, in the Contract Sum, in the Contract Time of completion, or any combination thereof, as are described in written Change Orders signed by the Owner and issued after execution of the Contract, in accordance with the provisions of this Section.

1.02 QUALITY ASSURANCE

- A. Include within the contractor's quality assurance program such measures as are needed to assure familiarity of the contractor's staff and employees with these procedures for processing Change Order data.

1.03 SUBMITTALS

- A. Make submittals directly to the Project Representative at the address shown on the Project Directory in the Project Manual.

1.04 PRODUCT HANDLING

- A. Maintain a Register of Change Orders, accurately reflecting current status of all pertinent data.
- B. Make the Register available to the Project Representative for review at his request.

1.05 PROCESSING CHANGES INITIATED BY THE OWNER

- A. Should the Owner contemplate making a change in the Work, the Project Representative will request a price from the contractor for the change in work. The contractor shall promptly advise the Project Representative as to credit or cost proposed for the described change and if additional time is needed in the contract. This is not an authorization to proceed with the change.
- B. If the Contractor has been directed by the Project Representative to promptly advise him as to credit or cost proposed for the described change, the contractor shall:
 - 1. Analyze the described change and its impact on costs and time;
 - 2. Secure the required information as given in "C" and forward it to the Project Representative for review;
 - 3. Meet with the Project Representative if required to explain costs and, when appropriate, determine other acceptable ways to achieve the desired objective;

4. Alert pertinent personnel and subcontractors as to the impending change and, to the maximum extent possible, avoid such work as would increase the Owner's cost for making the change, advising the Owner in writing when such avoidance no longer is practicable.
- C. Make reply to the Project Representative in response to each request.
 1. State proposed change in the Contract Sum, if any (including overhead and profit markups, bonds and insurances).
 2. State proposed change in the Contract Time of completion, if any.
 3. Clearly describe other changes in the Work required by the proposed change, or desirable therewith, if any.
 4. Include full backup data such as subcontractor's letter of proposal or similar information.
 5. Submit this response in single copy.
- D. If the project representative directs the contractor to proceed with the change at the cost presented by the contractor, the project representative will inform the contractor and will issue a change order as soon as practicable.
- E. If the Contractor has been directed by the project representative to make the described change in the Work at no change in the Contract Sum and no change in the Contract Time of completion, but the Contractor wishes to make a claim for one or both of such changes, the Contractor shall proceed with the change and shall notify the project representative as provided for under Paragraph 4.3 (1987) of the General conditions.

1.06 CHANGES INITIATED BY THE CONTRACTOR

- A. Should the Contractor discover a discrepancy among the Contract Documents, as concealed condition as described in Paragraph 4.3.6 of the General Conditions, or other cause for suggesting a change in the Work, a change in the contract Sum, or a change in the contract Time of completion, he shall notify the Owner as required by pertinent provisions of the Contract Documents.
- B. Upon agreement by the project representative that there is reasonable cause to consider the Contractor's proposed change, the project representative will issue a change order in accordance with the provisions described in Article 1.05 above.

1.07 PROCESSING CHANGE ORDERS

- A. Change Orders will be dated and will be numbered in sequence.
- B. The Change Order will describe the change or changes.
- C. The Owner will issue two copies of each Change Order to the Contractor.
 - 1. The Contractor promptly shall sign all copies and return one copy to the Project Representative and shall retain one copy for his files.

SECTION 01340
SUBMITTALS

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Work included: Make submittals required by the Contract Documents, and revise and resubmit as necessary to establish compliance with the specified requirements.
- B. Related work:
 - 1. Documents affecting work of this Section include, but are not necessarily limited to, General Conditions, Supplementary Conditions, and Sections in Division 1 of these Specifications.

1.02 QUALITY ASSURANCE

- A. Coordination of submittals:
 - 1. Prior to each submittal, contractor shall carefully review and coordinate all aspects of each item being submitted.
 - 2. Verify that each item and the submittal for it conform in all respects with the specified requirements.
 - 3. By affixing the Contractor's signature to each submittal, certify that this coordination has been performed.
 - 4. Unapproved submittals shall be returned to contractor.
- B. "Or equal":
 - 1. Where the phrase "or equal" or "or equal as approved by the Owner," occurs in the Contract Documents, do not assume that the materials, equipment, or methods will be approved as equal unless the item has been specifically so approved by the Owner.
 - 2. All substitution approvals must be made PRIOR TO BIDDING as addressed in Section 00100 INSTRUCTIONS TO BIDDERS, ¶1.13 MATERIAL SUBSTITUTIONS.
 - 3. The decision of the Owner shall be final.

1.03 SUBMITTALS

- A. Make submittals of Shop Drawings, samples, substitution requests, and other items in accordance with the provisions of this Section.

PART 2 - EXECUTION

2.01 IDENTIFICATION OF SUBMITTALS

- A. Consecutively number all submittals.
 - 1. When material is resubmitted for any reason, transmit under a new letter of transmittal and with a new transmittal number.
- B. Accompany each submittal with a letter of transmittal showing all information required for identification and checking.
- C. Maintain an accurate submittal log for the duration of the Work, showing current status of all submittals at all times. Make the submittal log available to the Owner for his review upon request.

2.02 TIMING OF SUBMITTALS

- A. Make submittals far enough in advance of scheduled dates for installation to provide time required for reviews, for securing necessary approvals, for possible revisions and resubmittals, and for placing orders and securing delivery.
- B. In scheduling, allow at least ten working days for review by the Project Representative following his receipt of the submittal.

2.03 PROJECT REPRESENTATIVE'S REVIEW

- A. Review by the Project Representative does not relieve the Contractor from responsibility for errors which may exist in the submitted data.
- B. Revisions:
 - 1. Make revision required by the Project Representative.
 - 2. If the Contractor considers any required revision to be a change, he shall so notify the Project Representative as provided for in Section 3.2 of the District Modified AIA General Conditions.
 - 3. Make only those revisions directed or approved by the Owner.

2.04 VERIFICATION OF SPECIFIED ITEMS

- A. When items are provided exactly as specified, samples or literature submittal requirements may be waived by owner. However, if submittals of samples or literature are waived, a letter must be provided by the contractor indicating that the items have been provided exactly as specified in the contract documents. Items should be called out by Section number, product name and a brief description.

SECTION 01500
TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Temporary Utilities: Electricity, lighting, telephone service, water, and sanitary facilities.
- B. Temporary Controls: protection of the Work.
- C. Construction Facilities: progress cleaning, and temporary buildings.

1.02 TEMPORARY ELECTRICITY

- A. Connect to existing power service. Power consumption shall not disrupt Owner's need for continuous service.

1.03 TEMPORARY LIGHTING

- A. Permanent building lighting may be utilized during construction.

1.04 TELEPHONE SERVICE

- A. Permanent building telephone may be utilized at construction site during work hours for local calls only.

1.05 TEMPORARY WATER SERVICE

- A. Connect to existing water source and provide temporary water meter for construction operations. Water use shall not disrupt Owners need for continuous service. Contractor shall be responsible for all construction related water consumption costs.

1.06 TEMPORARY SANITARY FACILITIES

- A. Existing Permanent facilities may not be used during construction operations. Contractor shall provide for temporary sanitary facilities.

1.07 PROTECTION OF INSTALLED & EXISTING WORK

- A. Protect installed & existing work and provide special protection as required in individual specification Sections.
- B. Provide temporary and removable protection for installed Products. Control activity in immediate work area to minimize damage.

- C. Provide protective coverings at walls, projections, jambs, sills, soffits, etc. as required.
- D. Protect finished floors, stairs, and other surfaces from traffic as required.
- E. Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, protect roofing materials as required.
- F. Prohibit traffic from landscaped areas.

1.08 PROTECTION OF UNDERGROUND UTILITIES

- A. Contractor is responsible for notifying KS-ONE CALL prior to ALL digs.
- B. Any damage to marked utilities shall be the responsibility of the contractor and shall make any repairs at no cost to the owner.
- C. If contractor during course of construction encounters any utilities, contact the Owner immediately.

1.09 SECURITY

- A. Provide security and facilities to protect Work, and existing facilities, and Owner's operations from unauthorized entry, vandalism, or theft.
- B. Coordinate with Owner's security program.

1.10 PROGRESS CLEANING

- A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.
- B. Upon completion of the work, the construction area shall be thoroughly cleaned and the areas of work left in a neat and presentable manner.
- C. Areas not a part of the construction area, but areas provided by owner for contractors use shall be left neat and presentable following contractors use.

SECTION 01700
CONTRACT CLOSEOUT

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Closeout Procedures.
- B. Final Cleaning & Adjustments

1.02 CLOSEOUT PROCEDURES

- A. It is the contractor's responsibility to inform the owner when the work is complete in accordance with Contract Documents and ready for Project Representative's inspection by scheduling a final walk thru.
- B. If an occupancy permit is required, secure it prior to calling for final walk-thru. Present a signed inspection card to project representative for owner's files.
- C. Following completion of all punch items identified by project representative, the contractor shall inform the project representative that the work has been inspected and is complete in accordance with the contract documents and shall submit final Application for Payment.
- D. Provide closeout submittals to project representative that are required by governing or other authorities, including AIA Document G706A and State of Kansas Project Completion Certificate.

1.03 FINAL CLEANING

- A. Execute final cleaning prior to final inspection.
- B. Clean equipment and fixtures to a sanitary condition.
- C. Remove waste and surplus materials, rubbish, and construction facilities from the site.

1.04 ADJUSTING

- A. Adjust operating Products and equipment to ensure smooth and unhindered operation.

1.05 PROJECT RECORD DOCUMENTS

- A. Maintain one set of the following record documents;
 - 1. Contract Drawings.
 - 2. Specifications.
 - 3. Addenda.
 - 4. Change Orders and other Modifications to the Contract.
 - 5. Reviewed shop drawings, product data, and samples.
- B. Store Record Documents separate from documents used for construction.
- C. Record information concurrent with construction progress.
- D. Specifications: Legibly mark and record at each Product section description of actual Products installed, including the following:
 - 1. Manufacturer's name and product model and number.
 - 2. Product substitutions or alternates utilized.
 - 3. Changes made by Addenda and Modifications.
- E. Record Documents and Shop Drawings: Legibly mark each item to record actual construction including:
 - 1. Field changes of dimension and detail
 - 2. Details not on original Contract Drawings.
- F. Submit documents to Owner with claim for final Application for Payment.

1.06 WARRANTIES

- A. Provide duplicate notarized copies.
- B. Execute and assemble documents from Subcontractors, suppliers, and manufacturers.
- C. Provide Table of Contents and assemble in three ring binder with durable plastic cover.
- D. Submit prior to final Application for Payment.
- E. For items of Work delayed beyond date of Substantial Completion, provide updated submittal within ten days after acceptance, listing date of acceptance as start of warranty period.

SECTION 02200
SITE PREPARATION

PART 1 - GENERAL

1.01 DESCRIPTION

WORK INCLUDED:

- A. Dispose of removed elements off site. Trash dumpster at school site is not for contractor's use. Also refer to Section 02340 DEMOLITION.

1.02 EXISTING CONDITIONS

- A. Conduct demolition to minimize interference with adjacent building areas. Maintain protected egress and access at all times.

PART 2 – EXECUTION

2.01 PREPARATION

- A. Protect existing items which are not indicated to be altered.

SECTION 02340
DEMOLITION

PART 1 - GENERAL

1.01 WORK INCLUDED

- A. Remove all waste materials, including all unacceptable and excess demolished materials, trash and debris and legally dispose of it off the Owner's property. Do not allow demolished materials to accumulate on-site.

1.02 PROJECT CONDITIONS

- A. Existing Utilities: do not interrupt utilities serving facilities occupied by Owner or others unless permitted in writing by Project Representative and then only after arranging to provide temporary utility services according to requirements indicated:
 - 1. Notify Project Representative not less than two days in advance of proposed utility interruptions
 - 2. Do not proceed with utility interruptions without Project Representative's written permission.
 - 3. Maintain and replace existing floor electronics and power.
- B. Removal of Debris
 - 1. Promptly remove cleared debris from the site.
 - 2. Burning of debris on-site is not permitted.
 - 3. Obtain permission from applicable regulatory authority for disposal of debris at waste disposal site.
 - 4. Costs of all removals shall be included in the contractor's bid price.
 - 5. **Owner's dumpsters on-site are not to be used by Contractor.**

1.03 DEFINITIONS

- A. Remove: Detach items from existing construction and legally dispose of them off-site unless indicated to be removed and salvaged.
- B. Remove and Salvage: Carefully detach from existing construction, in a manner to prevent damage, and deliver to Owner ready for reuse. Include fasteners or brackets needed for reattachment elsewhere.

1.04 MATERIALS OWNERSHIP

- A. Unless otherwise indicated, demolition waste becomes property of Contractor.

PART 2 – EXECUTION

2.01 PREPARATION AND EXECUTION

- A. Contractor shall be required to provide notice to Kansas One Call at 687-2470 a minimum of (3) working days prior to any digging or underground activity.
- B. Contractor to protect all existing items which are not shown to be altered.
- C. Demolish in an orderly and careful manner. Protect adjacent areas against damage, debris and/or dust. Promptly repair any and all areas or items damaged. All repairs must match all existing materials and finishes.
- D. Maintain exits from existing buildings, and ensure safe passage of people around selective demolition area. The Contractor shall take all necessary precautions to protect the general public during the construction and demolition process. This may include the use of fences and signage.
- E. Traffic affected by demolition on this project shall be handled in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).
- F. Use methods required to complete the work within the limitations of governing regulations.
- G. Explosives shall not be used.
- H. Conduct demolition operations to prevent injury to people and damage to adjacent building and facilities to remain.

2.02 DISPOSAL OF SURPLUS AND WASTE MATERIALS

- A. Upon completion of work, leave areas of work in clean condition.
- B. Patch areas of removed materials to match adjacent areas.
- C. Clean adjacent areas and improvements of dust, dirt, and debris caused by building demolition operations. Return adjacent areas to condition existing before demolition operations began, including but not limited to light fixtures, walls, ceilings, sound panels, exposed structure and bleachers, etc.
 - 1. Clean roadways of debris caused by debris transport.
- D. Contractor shall protect all “dust sensitive” electronics and/or other items which might be damaged by the removal and re-installation work. If items are not protected properly and damage occurs, USD 259 may, at its discretion, require replacement.

- E. If painting is necessary for repair, Benjamin Moore High Speed Semi-Gloss color matched to existing adjacent walls shall be applied corner to corner and ceiling to floor in affected areas. Spot or touch-up painting is not permitted.

2.03 DISPOSAL OF DEMOLISHED MATERIALS

- A. Remove demolition waste materials from Project site and legally dispose of them in an EPA-approved landfill acceptable to authorities having jurisdiction.
 - 1. Do not allow demolished materials to accumulate on-site.
 - 2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
- B. Do not burn demolished materials.

2.04 REPAIRS

- A. Contractor shall promptly repair any damage to adjacent areas caused by demolition/construction operations and return items to original or better condition to the Owner's satisfaction at no additional cost to the Owner.
- B. All finish grades shall be within ¼" of adjacent elevations.
- C. TOP SOIL – Topsoil shall be free of rock or gravel larger than ½" in any dimension, debris, waste, vegetation matter and other deleterious matter
- D. SEEDING -The contractor shall be required to restore all areas disturbed by construction activities. Sodding is not required. Permanent seeding shall be done using Bermuda seed of the same variety as the grass found at the rate of 3 lbs./1000 sq. ft., placed ¼" below the surface of the dirt, and when temperatures are at 65° F and rising. Straw mulch shall be placed after seeding to retain moisture and prevent erosion. Temporary seeding using annual rye grass shall be required if the seeding must be done outside the seeding season for Bermuda grass. Sprigging the Bermuda may be done within the appropriate sprigging season, with written permission of the USD 259 Project Representative. Temporary seeding, permanent seeding, or Bermuda sprigging shall be considered subsidiary to the project and not bid or paid for separately. Contractor shall water the seed as required for the seed to germinate. The contractor shall be responsible for keeping the area watered until the grass takes hold. Contractor shall supply water. DISTRICT WILL NOT PROVIDE WATER.

SECTION 07620
METAL FLASHING AND TRIM

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Provide metal trim as needed around new hollow metal door jambs in areas indicated in the drawings.

1.02 QUALITY ASSURANCE

- A. Standards-The applicable portions of the listed documents establish minimum requirements and shall be followed.
 - 1. Sheet Metal and Air Condition Contractors National Assoc., Inc. "Architectural Sheet Metal Manual", 1972 Edition.
 - 2. American Society for Testing and Materials Standards listed in section.

1.03 PROTECTION

- A. Clean and prime sheet materials, all surfaces, before installation.

1.04 WARRANTY

- A. Include a 5 year warranty for all metal flashing and trim installed.

PART 2 – PRODUCTS

2.01 PREFINISHED SHEET STEEL

- A. Hot dip galvanized sheet steel meeting ASTM A446 Structural Quality with G90 (1-1/4 oz. per s.f.) coating and factory finished with finished fluoropolymer coating, 70% Kynar 500 or equal. Gauges required, flat sheet for fabrication. Color selected from entire range of standard colors of metal siding manufacturers such as:
 - 1. AEP-Span
 - 2. Vincent (Colorclad)
 - 3. Pac-Clad by Peterson Aluminum Corp.
 - 4. Una Clad by Copper Sales, Inc.

2.02 FLASHING SHEET

- A. "Ply-Bar Plus" glass reinforced laminated vapor barrier sheet by Glas-Kraft Inc., Slaterville, RI for continuous flashing under metal cap flashings.
- B. Caulking and/or sealants specified refer 07900 Caulking and Sealants.

PART 3 – EXECUTION

3.01 GENERAL

- A. Fabricate and install in accordance with existing locations and accepted good practice of the industry.
- B. Form with bending break
- C. Shaping, seaming, hand trimming shall be done on bench.
- D. Holes, dents, creases or wrinkle shall be cause for rejection
- E. Install in long lengths over flashing sheet.
- F. Finished work; tight fitting, in line, with neat flat surfaces and straight edges.
- G. Anchoring concealed unless indicated or noted otherwise.
- H. Joints butted with 6” long concealed splice plate. Apply bond breaker tape on splice plate min. ½” wide. Space facing metal at least 3/8” apart over the tape. Seal over joint specified Section 07900 Caulking and Sealants.
- I. Rivet and seal joints except as other specified and at expansion conditions.
- J. Set flashings on top of roofing when applicable/appropriate.
- K. Cap ends all flashings.

3.02 CAP (COUNTER) FLASHING

- A. Lap cap (counter) flashing joints 4”, seal. Refer Section 07900 Caulking and Sealants.
- B. Install cap (counter) flashing to spring tight against roofing (when applicable/appropriate), secure cap (counter) flashing in reglet. Stagger joints at least 12” from reglet joints.

3.03 METAL REGLET

- A. Formed as part of other flashing such as wall flashing, etc. Lap and seal joints.

SECTION 07900
CAULKING AND SEALANTS

PART 1 – CAULKING AND SEALANTS

1.00 DESCRIPTION

A. The work includes caulking and sealant work.

1.01 WORK TO BE CAULKED-Areas listed below. Numbers and letters which appear in parenthesis refer to the materials listed under Part 2 – Products.

A. EXTERIOR

1. Perimeters of exterior opening frames at adjoining materials.
2. Expansion and control joints in exterior or surfaces of masonry and precast concrete. (1B, 1D, 2B, 2D, 3D)
3. Coping joints and coping-to-façade joints (1B, 1D, 2B, 2D, 3D)
4. Metal flashing trim joints. (1B, 1D, 2B, 2D, 3D)
5. Control and expansion joints open or soft joints in masonry under steel support members on the interior or exterior poured-in-place concrete. (1B, 1D, 2B, 2D, 3D)
6. One inch (1”) expansion joints shall be two part non-sag at vertical joints (1B, 2B, 2D)
7. One inch (1”) expansion joints shall be two part self-leveling at horizontal joints. (1A, 2A)
8. Sealing of exterior and interior perimeters of all electrical and mechanical items which penetrate the foundation and façade of the building.

1.02 QUALITY ASSURANCE

- A. Use only qualified workers thoroughly skilled and specially trained in the techniques of caulking, who can demonstrate to the satisfaction of the owner their ability to fill joints solidly and neatly.
- B. Mix and apply sealing compounds in strict accordance with the manufacturer’s printed directions. Initial mixing and application shall be under the direct supervision of the manufacturer’s representative unless otherwise approved.
- C. Products shall meet or exceed ASTM C834 (Acrylic), ASTM C920 (Medium & High Mod.), FS TT-S-01543 (Silicones) or FS TT-S-001657 & ASTM C1085 (Butyl).

1.03 SUBMITTALS

- A. Submit in accordance with General Conditions, Supplementary General Conditions and Section 01340.

- B. Caulking and Sealant Project Manual including minimum
 1. Materials and configuration to be used for each type condition.
 2. Manufacturer's instructions for preparation, use, conditions, installation temperature limitations, etc.
 3. Data to show material compliance with specification.
 4. Manufacturer's letter of assurance that sealants, primers, etc. are compatible with abutting finishes.
- C. Submit color card indicating actual sealant samples for r Owner's selection.

1.04 DELIVERY, STORAGE AND HANDLING

- A. Deliver caulking and sealing compounds to the job in unbroken, sealed containers bearing the manufacture's mixing direction and shelf life expiration date. Store materials in sealed containers in a dry protected area above the ground or floor.
- B. Protect caulking materials before, during and after installation. Protect the installed work of other trades during installation.
- C. Do not use caulking materials that have been stored for a period of time exceeding the maximum recommended shelf life of the materials.

1.05 GUARANTEE

- A. Submit written five-year Guarantee for weathertight caulking and sealant work in accordance with this specification covering workmanship and materials.

1.06 JOB CONDITIONS

- A. The joint configuration, joint surfaces and backing, forming the sealant rabbet are all existing and should be applied according to the approved Sealant Project Manual and in accordance with the contract specification. All observed detrimental conditions shall be reported immediately in writing to the General Contractor and the Owner for correction by the General Contractor.
- B. Do not proceed with the installation of sealants under adverse weather conditions when joint to be sealed is damp, wet or frozen, or when temperature are below or above the manufacturer's recommended limitations for installation.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Materials shall have a life expectancy in the project climate of not less than 10 years.

2.02 TYPE OF SEALANT AND APPROVED PRODUCT

A. **POLYSULFIDES**

Two Part

1A – Self Leveling

Grace, Daraseal U

Gaco Western, Gaco VG22

1B – Non-Sag

Pecora, Synthacalk GC-5

Sonneborn, Sonolastic Two-Part Sealant

One Part

1C – Self-Leveling

None available

1D – Non-Sag

Pecora, Synthacalk GC-9

Sonneborn, Sonolastic Sealant

B. **URETHANES**

Two Part

2A – Self Leveling

Pecora, Urexpan NR-200

Tremco, THC900

Vulkem, 255

2B – Non-Sag

Pecora, Dynatrol II

Tremco, Dymeric 511

Sonneborn, Sonolastic NP11

One Part

2C – Self-Leveling

Pecora, Urexpan NR-201

Vulkem, 45

Sika, 1A, SL

Sonneborn, Sonolastic NL 1

2D – Non-Sag
Pecora, Dynatrol I
Tremco, Dymonic
Sika, Sikaflex 1A

C. SILICONES

3G – High Strength
Pecora, 863
(glazing uses)
Dow, 791
G.E., Silglaze N

3D – Low Modulus
Pecora, 864
Dow, 790
G.E., Gesil N
Tremco, Spectrem 2

D. ACRYLICS

One Part
4
Pecora, 60+ Unicrylic
Tremco, Mono
PTI, 767

E. ACRYLIC LATEX

One Part
5
Pecora, Ac-20
Tremco, Acrylic Latex
Sonneborn, Sanolac

F. PERFORMED COMPRESSIBLE FILLERS

Polyurethane foam-impregnated with polybutylene or similar non-asphaltic sealer which can be painted:

Polytite by Sandell Mfg. Co., Inc., Cambridge, MA
Will-Seal by Illbruck/USA, Minneapolis, MN
Emseal Grayflex by Emseal Corp., Stanford, CT.

G. Package sealer in rolls, precompressed to approximately 25% of expanded width, windings separated by non-adhering tape.

- H. Size sealer so original expanded width of sealer is four times the in-place width to create a weather seal; depth as recommended by manufacturer for width of joint.

2.03 MATERIALS/PERFORMANCE REQUIREMENTS

- A. Specifications-Conform to Federal and ASTM Specifications
- B. Colors-As selected by Owner from manufacturer's standard colors. In general, colors will be selected to match or be slightly darker than the adjacent material (s).
- C. Joint Backing-Preformed compressible, resilient, non-waxing, non-extruding, non-staining strips (polyethylene foam, urethane foam, butyl), heat resisting where hot sealant is used, as recommended by the sealant manufacturer. Backing shall be sizes and shapes to suit the various conditions and shall be compatible with sealant, primers, and substrates.
- D. Bond Breaker-As recommended by the sealant manufacturer.
- E. Cleaning Agent-As recommended by the sealant manufacturer.

PART 3 EXECUTION

3.01 GENERAL

- A. Joint surfaces to receive caulking and sealant shall be sound, smooth, clean and dry and free of all visible contaminants. Test for applications of non-visible coatings or contaminants to surfaces of rabbet area prior to application of sealer. Report in writing to Owner and Contractor for Contractor's correcting. Do not seal contaminated joints.
- B. Joint size minimum.

3.02 PREPARATION OF SURFACES

- A. Thoroughly clean joints and apply primer, if recommended by sealant manufacturer, to dry surfaces, apply primer prior to application of joint backing, bond breaker or sealants.
- B. In joints where the depth of the joint exceeds the required depth of the sealant, install joint backing to provide backing and uniform depth of sealant. Install with approximately 30% compression. Do not stretch, twist, puncture or tear joint backing. Butt at intersections and end joints. Gage depth of backing to assure proper sealant depth.

- C. Install bond breaker tape smoothly at back of joint where joint backing is not required backing cannot be installed. (Sealant shall adhere only to the sides and not to the back of the joint so as to eliminate three-sided adhesion.)

3.03 INSTALLATION

- A. Apply sealant in accordance with manufacturer's application manual and instruction. Do not install when drastic temperature changes are expected. Use handguns or pressure equipment, with proper nozzle sizes, on clean, dry, properly prepared substrates. Force sealant into joint and against sides of joint to make uniform. Avoid pulling of the sealant from the sides. Fill sealant space completely with sealant and attain proper cover of backing material.
- B. Tooling is required to ensure firm full contact with the interfaces of the joint. Tool joints to form smooth, uniform beads with slightly concave surfaces. Finish joints shall be straight, uniform, smooth and neatly finished. Remove any excess sealant from adjacent surfaces of joint, leaving the work in a neat, clean condition. Tooling agents should only be used if recommended by the sealant manufacturer.
- C. Where an irregular surface or sensitive joint border exists the applicator shall apply masking tape at the end of the joint to insure joint neatness and protection. Remove tape after sealant is applied.
- D. Remove and reseal improperly prepared, installed and finished joints.

3.04 COMPRESSIBLE SEALER

- A. Precompress sealer of 4 times joint width x manufacturer's recommended depth, factory package with separator between layers of sealer.
- B. Insert sealer in joints, protecting adjacent surfaces from soiling or contamination while in precompressed size. Install uniformly recessed in relation to adjacent finish surfaces.
- C. Refrigerating sealer to slow down expanding of sealer while being installed is permitted.
- D. Snugly butt joints compressing as manufacturer recommends to attain leak resistant joint.
- E. In joints where compression cannot be maintained, recompress sealer with subsequent construction to attain weathertight seal.
- F. Remove and reseal improperly prepared, installed and sealed joints.

3.05 CLEANING

- A. Clean off excess compound or smears with cleaning material recommended by the manufacturer of the compound for surface contaminated. Leave work in a condition satisfactory to the Owner.

3.06 TESTING AND INSPECTION

- A. Furnish labor and material to remove and replace sealant during on-site inspection(s) as hereinafter specified.
- B. As sealant work is completed and as directed by Owner, remove the sealant installed in joints at not to exceed 2 locations of approximately 1 lineal foot per location for each 1000 lin. Ft. of sealant. The location(s) to be selected by the Owner.
- C. Upon removal of the sealant and backup material, the work shall be checked for compliance with the contract documents.
- D. If defective work is found in any of the test locations, additional test sections shall be made by the Contractor at no additional cost to the Owner.
- E. In the event any test section(s) removed reveals work that is not in compliance with the contract, remove all adjacent sealant to the point where the work is found to be acceptable and replace with new sealant in accordance with plans and specifications.

SECTION 084113
ALUMINUM FRAMED ENTRANCES AND STOREFRONTS

SECTION 084113 ALUMINUM FRAMED ENTRANCES AND STOREFRONTS

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes

1. Furnish all necessary materials, labor and equipment for the complete installation of aluminum entrance systems as shown on the drawings and herein specified. Structural support of the framing system is not included.
2. Types of Aluminum Entrances include
 - a. 150 Series; Wide stile, 5" nominal vertical face dimension, 1 3/4" depth, high traffic applications.

1.02 SYSTEM PERFORMANCE REQUIREMENTS

A. Test Units

1. Air test unit shall be minimum size of 36" (914 mm) x 84" (2134 mm).

B. Test Procedures and Performances

1. Air Infiltration Test

- a. With door sash closed and locked, test unit in accordance with ASTM E 283 at a static air pressure difference of 1.57 psf (75 Pa).
- b. Air infiltration shall not exceed .50 cfm/SF (2.54 l/s·m²) of unit, for single doors.

1.03 SUBMITTALS

A. General Requirements

1. Prepare, review, approve, and submit specified submittals in accordance with "Conditions of the Contract" and Submittals Sections. Product data, shop drawings, samples, and similar submittals are defined in "Conditions of the Contract."

1.04 QUALITY ASSURANCE

- A. Submit certified independent laboratory test reports verifying compliance with all test requirements of 1.02 System Performance Requirements as requested by architect.
- B. Test reports shall be accompanied by the entrance door manufacturer's letter of certification stating that the tested door meets or exceeds the referenced criteria for the appropriate AAMA door type.
- C. Qualifications: Upon request, the manufacturer will provide written confirmation that the installer is authorized to install aluminum entrance products to be used on this project.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Packing, Shipping, Handling, and Unloading

1. Materials will be packed, loaded, shipped, unloaded, stored and protected in accordance with AAMA CW-10.

1.06 WARRANTY

A. Aluminum Entrance Warranty

1. Products: Submit a written manufacturer standard warranty, executed by the aluminum entrance manufacturer, from the date of manufacture, against defective materials or workmanship, including substantial non-compliance with applicable specification requirements and industry standards, which results in premature failure of the aluminum entrance, finish, factory-glazed glass, or parts, outside of normal wear.
 - a. In the event that the aluminum entrances or components are found defective, manufacturer will repair or provide replacements without charge..
 - b. Warranty for all components must be direct from the manufacturer (non-pass through) and non-prorated for the entire term. Warranty must be assignable to the non-residential owner, and transferable to subsequent owners through its length.
2. Installation: Submit a written warranty, executed by the aluminum entrance installer, for no less than a period of 1 year from the date of substantial completion, against defective materials or workmanship, including substantial non-compliance with applicable specification requirements, which result in premature failure.
 - a. In the event that installation of aluminum entrances or components is found to be defective, installer will repair or provide replacements without charge.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Acceptable Manufacturer

- a. 1. Drawings and specifications are based on: Manko Window Systems, Inc. 150 Wide Stile Aluminum Storefront Swing Door
- 2.

B. Substitutions

1. Equivalent units shall be equal to or better than specified Manko series.
2. Substitute products not pre-approved by the Owner via addendum will not be considered.

C. Approved Manufacturers:

1. Manko
2. EFCO
3. Kawneer
4. US Aluminum Corporation
5. Wausau
6. Tubelite

2.02 MATERIALS

A. Aluminum (Entrances and Components)

1. Material Standard: ASTM B221; 6063-T5 or 6063-T6 alloy and temper.
2. The door stile and rail face dimensions entrance door will be as follows:

Door	Vertical Stile	Top Rail	Bottom Rail	Mid Rail
150	5"	5"	10"	10"
3. Major door portions shall have a minimum wall thickness of .125"; glazing bead shall have .055".
4. Frame portions shall be complete with head and jamb weatherstripping, threshold, and door sweep. Frame portions based on Manko 2450CG Series
5. Tolerances: Reference to tolerances for wall thickness and other cross-sectional dimensions of entrance members are nominal and in compliance with Aluminum Standards and Data. Fasteners, where exposed, shall be aluminum, stainless steel or zinc plated steel in accordance with ASTM A164. Perimeter anchors shall be aluminum or steel, providing the steel is properly isolated from the aluminum.

2.03 COMPONENTS

A. Hardware

1. Provide hardware as specified in Section 08700
2. Provide removable mullion when paired with a 2 door formatted aluminum entry.

2.04 FABRICATION

A. General

1. Major portions of the door sections shall have .125” wall thickness. Glazing stop sections shall have .055” wall thickness.

B. Entrance Doors

1. Door stiles shall be no less than 5” (150 series) wide (not including glass stops).
2. Door stiles and rails shall have overlap hairline joints at corners. Heavy concealed reinforcement brackets shall be secured with screws and tie rod.
3. All doors shall have an adjusting mechanism in the top rail to provide for minor clearance adjustments.
4. Weather stripping shall be dual textile skirting weatherseals and shall be installed in one stile of pairs of doors and in jamb stiles of center pivoted doors.

C. Door stops shall include a bulb weather-strip that complies with ASTM E 2203 specification.

D. Glazing

1. All units shall be dry glazed with extruded pressure fitting aluminum glazing stops, and a gasket that complies with ASTM E 2203 specification. See Section 08800 for glazing types.

2.05 FINISHES

A. Finish of Aluminum Components

1. Finish of all exposed areas of aluminum windows and components shall be done in accordance with the appropriate AAMA Voluntary Guide Specification shown.

Designation:	Description:	Standard:	Color:
AAM12C21A44	Electrolytically Deposited – Class I	AAMA 611	Bronze - to match existing colors

PART 3 EXECUTION

3.01 EXAMINATION

A. Site Verification of Conditions

1. Verify that building substrates permit installation of entrances according to the manufacturer's instructions, approved shop drawings, calculations and contract documents.
2. Do not install entrances until unsatisfactory conditions are corrected.

3.02 SPECIFIC WORK

- A. Kensler Elementary School: Replace existing door system at Doors #1 & #3 with new aluminum store front system of similar layout.
- B. McCollom Elementary School: Replace existing door system at Doors #1, #2, #3, #4 & #5 with new aluminum store front system of similar layout.
- C. Minneha Core Knowledge Magnet School: Replace existing door system at Door #3 with new aluminum store front system of similar layout.

3.03 INSTALLATION

A. Erection of Aluminum Framed Entrances

1. Install entrances with skilled tradesman in exact accordance with approved shop drawings, installation instructions, specifications, and AAMA 101 and 101/I.S.-2.
2. Entrances must be installed plumb, square, and level for proper weathering and operation.
3. Repair and/or patch adjacent interior or exterior surfaces, pre-existing or resulting from the project within a 5' radius of the opening including walls, soffits, ledges, sills, loose veneer brick, mortar, ceilings, floors, etc. as required by the work to match existing to owner's satisfaction. Paint repaired or patched areas as described in the Painting Section 09910 of this specification. Remove mildew, rust, excess paint, and other substances from window ledges. Seal all gaps left between existing walls and new windows to owner's satisfaction. Caulking joints must be smooth and clean. Caulking joints more than 1" in width are not allowed.
4. Comply with all current building codes, AADAG Standards and safety codes.
5. All joints between framing and the building structure shall be sealed in order to secure a water tight installation.
6. Fill voids in all exterior frames with insulation.
7. All openings shall be made weathertite within 5 days of removing existing units.
8. Aluminum that is not organically coated shall be insulated from direct contact with steel, masonry, concrete, or dissimilar metals by bituminous paint, zinc chromate primer, non-conductive shims or other suitable insulating material.

3.04 PROTECTION AND CLEANING

- A. After completion of entrance installation, the General Contractor shall adequately protect exposed portions of aluminum surfaces from damage by grinding and polishing compounds, plaster, lime, acid, cement, or other contaminants. The General Contractor shall be responsible for the final cleaning per manufacturers recommended cleaning methods and instructions.

SECTION 08700
HARDWARE

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Finish hardware for doors as specified and as listed in “Hardware Groups” and required by actual conditions.
 - 1. Include screws, special screws, bolts, special bolts, expansion shields, and other devices for proper application of hardware.
 - 2. This project will utilize electrified panic bars for Access Card Reader applications.

1.02 GENERAL REQUIREMENTS

- A. Provide items, articles, materials, operations and methods listed, mentioned or scheduled herein or on drawings, in quantities as required to complete project. Provide hardware that functions properly. Prior to furnishing hardware, advise Owner of items that will not operate properly, are improper for conditions, or will not remain permanently anchored.

1.03 SUBMITTALS

- A. Hardware Schedule: Submit an electronic copy of hardware schedule in vertical format as illustrated by the Sequence of Format for the Hardware Schedule as published by the Door and Hardware Institute. Schedules which do not comply will be returned for correction before checking.
- B. Hardware schedule shall clearly indicate Owner’s hardware group and manufacturer of each item proposed.
- C. The schedule shall be reviewed prior to submission by an Architectural Hardware Consultant (AHC).
 - 1. Provide (2) copies of illustrations from manufacturer’s catalogs and data in brochure form.
 - 2. Check specified hardware for suitability and adaptability to details and surrounding conditions. Indicate unsuitable or incompatible items and proposed substitutions in hardware schedule.
 - 3. Provide listing of manufacturer’s template numbers for each item of hardware in hardware schedule.
 - 4. Furnish other Contractors and Subcontractors concerned with copies of final approved hardware schedule. Submit necessary templates and schedules as soon as possible to hollow metal, wood door, and aluminum door fabricators in accordance with schedule they require for fabrication.
 - 5. Samples: Lever design or finish sample. Provide samples if requested by architect.

- D. Provide manufacturer's written installation and adjustment instructions for finish hardware. Send installation instructions to site with hardware.
- E. Submit templates and "reviewed Hardware Schedule" to door and frame supplier and others as applicable to enable proper and accurate sizing and locations of cutouts and reinforcing.
- F. Contract Closeout Submittals: Comply with Section 01700 including specific requirements indicated below:
 - 1. Submit (3) Operating and Maintenance manuals containing the following:
 - a. Complete information in care, maintenance, and adjustment.
 - b. Catalog pages for each product.
 - c. Name, address, and phone number of local representative for each manufacturer.
 - d. Copy of final approved hardware schedule, edited to reflect "As installed".
 - e. Copy of final keying schedule.
 - f. One complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.

1.04 QUALITY ASSURANCE

- A. Obtain each type of hardware (i.e. Latch and locksets, hinges, closers) from single manufacturer, although several may be indicated as offering products complying with requirements.
- B. Recognized architectural finish hardware supplier, with warehousing facilities, who has been providing hardware for a period of not less than (5) years. The supplier shall be, or employ, an Architectural Hardware Consultant (AHC).
- C. Firm with (5) years, experience in installation of similar hardware to that required for this project, including specific requirements indicated.
- D. Provide nationally recognized testing agency label or stamp on hardware for labeled openings. Where UL requirements conflict with drawings or specifications, hardware conforming to UL requirements shall be provided. Conflicts and proposed substitutions shall be clearly indicated in hardware schedule.
- E. Doors to stairs (other than exit stairs), loading platforms, boiler rooms, stages and doors serving other hazardous locations shall have knurled or other similar approved marking of door lever handles or cross bars in accordance with local buildings codes for handicapped requirements.

1.05 DELIVERY, STORAGE AND HANDLING

- A. Deliver hardware to jobsite in manufacturer's original packaging, marked to correspond with approved hardware schedule. Do not deliver hardware until suitable locked storage space is available. Check hardware against review hardware schedule. Store hardware to protect against loss, theft or damage.
- B. Deliver hardware required to be installed during fabrication of hollow metal, aluminum, wood, or stainless steel doors prepaid to manufacturer.

1.06 WARRANTY

- A. Guarantee workmanship and material provided against defective manufacture. Repair or replace defective workmanship and material appearing within period of one year after Substantial Completion.
- B. Provide ten year factory warranty on door closer body against defects in material and workmanship from date of occupancy of Project.
- C. Replace shortages and incorrect items with correct material at no additional cost to Owner.
- D. At completion of project, qualified factory representative shall inspect closer installations. After this inspection, letter shall be sent to Architect reporting on conditions, verifying that closer have been properly installed and adjusted.

PART 2 - PRODUCTS

2.01 KEYING

- A. Master key or Grand master key cylinders and key in groups, unless otherwise specified. Factory master key with manufacturer retaining permanent keying records. All locks and cylinders will be keyed into the existing master key system.
- B. Cylinders for interior doors will be Corbin/Russwin standard cylinder with 6 pins.
- C. On Corbin/Russwin master key system provide 6 master keys for each master key set. Provide 3 change keys for each lock.
- D. On Best interchangeable core cylinders provide no additional master keys and 3 change keys per cylinder, and 2 control keys per building.

- E. Furnish construction master keyed cylinders for all the Best interchangeable core cylinders. Construction cores will be replaced with permanent cores when owner takes possession on the building.
- F. Keys to be nickel silver and victory cut. Provide industry standard Visual Control stamping for each permanent cut key.
- G. Mortise and rim cylinder collards shall be solid and recessed to allow the cylinder face to be flush and be free spinning and have matching finishes.
- H. Hardware supplier will have a keying conference with the USD 259 District locksmith. Upon completion of the project a complete factory printed bitting list with 50% expansion will be delivered to the Owner. Meeting shall be coordinated with Project Representative.

2.02 FASTENERS

- A. Including, but not limited to, wood or machine screws, bolts, nuts, anchors, etc. of proper type, material, and finish required for installation of hardware.
- B. Use Phillips head for exposed screws. Do not use aluminum screws to attach hardware.
- C. Provide self-tapping (TEC) screws for attachment of sweeps and stop-applied weather-stripping only.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Examine doors, frames, and related items for conditions that would prevent the proper application of finish hardware. Do not proceed until defects are corrected.

3.02 INSTALLATION

- A. Install finish hardware in accordance with reviewed hardware schedule and manufacturer's printed instruction. Pre-fit hardware before finish is applied, remove and reinstall after finish is completed. Install hardware so that parts operate smoothly, close tightly and do not rattle.
- B. Installation of hardware shall comply with NFPA 80 and NFPA 101 requirements.
- C. Set units level, plumb and true to line and location. Adjust and reinforce attachment to substrate as necessary for proper installation and operation.

- D. Drill and countersink units which are not factory-prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.
- E. Hardware supplier will coordinate with Aluminum Door Supplier all hardware furnished under this section.
- F. Set thresholds for exterior doors in full bed of butyl-rubber or polyisobutylene mastic sealant, forming tight seal between threshold and surface to which set. Securely and permanently anchor thresholds, using countersunk non-ferrous screws to match color of thresholds (stainless steel screws at aluminum thresholds).

3.03 FIELD QUALITY CONTROL

- A. Adjust door control devices to compensate for final operation of heating and ventilating equipment.

3.04 ADJUSTING AND CLEANING

- A. At final completion, hardware shall be left clean and free from disfigurement. Make final adjust to door closers and other items or hardware. Where hardware is found defective repair or replace or otherwise correct as directed.
- B. Adjust door closers to meet opening force requirements of Uniform Federal Accessibility Standards.
- C. Whenever hardware installation is made more than one month prior to acceptance or occupancy of space or area, return to work during week prior to acceptance or occupancy, and make final check and adjustment of hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors.
- D. Instruct Owner's personnel in proper adjustment and maintenance of door hardware and hardware finishes.
- E. Clean adjacent surfaces soiled by hardware installation.

3.05 PROTECTION

- A. Provide for proper protection of items of hardware until Owner accepts Project as complete.

3.06 HARDWARE GROUPS

A. Door hardware schedule as follows:

Aluminum (Pair) Entry: Minneha 3B (electrified panic bar)				
2	Continuous Hinge	MK	MCK-12HD or MCK-14HD (as required) CL	Roton
1	Key Rem Mullion	Detex	90KR w/Best Cylinder	NO-SUB
1	Exit Device	Sargent	HK56-8804F PSB US32D w/Best Cylinder	
1	Exit Device	Sargent	8810 PTBDT	
2	Cylinder	BE	12E-72-S2 626 / 1C7Q1-626	
2	Drop Plate	RU	754F25 689	
2	Door Closers	RU	DC8210-A11 M54 M85 M77 689	
2	Door Stop	RO	462 US2C	
1	HD Threshold	Pemko	2005AT x Opening Width	
2	Sweep	PE	345AV x Door Width	
2	Astragal	PE	305CN x Door Height	
NOTES: Weather-stripping furnished by Aluminum Door Supplier.				

Aluminum (Pair) Entry: Kensler 1A , Kensler 1B, Kensler 14, McCollom 2, McCollom 5, Minneha 3A				
2	Continuous Hinge	MK	MCK-12HD or MCK-14HD (as required) CL	Roton
1	Key Rem Mullion	Detex	90KR w/Best Cylinder	NO-SUB
1	Exit Device	Sargent	8804 PSB US32D w/Best Cylinder	VD98NLx990NL
1	Exit Device	Sargent	8810 PTBDT	VD98DTx990DT
2	Cylinder	BE	1E-72 626	
2	Drop Plate	RU	754F25 689	
2	Door Closers	RU	DC8210-A11 M54 M85 M77 689	
2	Door Stop	RO	462 US2C	
1	HD Threshold	Pemko	2005AT x Opening Width	
2	Sweep	PE	345AV x Door Width	
2	Astragal	PE	305CN x Door Height	
NOTES: Weather-stripping furnished by Aluminum Door Supplier.				

Aluminum (Single) Entry: McCollom 1C (electrified panic bar)				
1	Continuous Hinge	MK	MCK-12HD or MCK-14HD (as required) CL	
1	Exit Device	Sargent	HK56-8804F PSB US32D w/Best Cylinder	VK98NLx990NL
PR 2103 x1700A				
1	Cylinder	BE	12E-72-S2 626 / 1C7Q1-626	
1	Door Closers	Corbin	CD8210-A11 M54 M85 M77 689	
1	HD Threshold	Pemko	2005AT x Opening Width	
1	Sweep	PE	345AV x Door Width	

Aluminum (Single) Entry: McCollom 1A, McCollom 1B, McCollom 3, McCollom 4				
1	Continuous Hinge	MK	MCK-12HD or MCK-14HD (as required) CL	
1	Exit Device	Sargent	8804 PSB US32D w/Best Cylinder	VK98NLx990NL
PR 2103 x1700A				
1	Cylinder	BE	1E-72 626	
1	Door Closers	Corbin	CD8210-A11 M54 M85 M77 689	
1	HD Threshold	Pemko	2005AT x Opening Width	
1	Sweep	PE	345AV x Door Width	

SECTION 09910
PAINTING

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. General provision of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes surface preparation and field painting of exposed exterior and interior items and surfaces.
 - 1. Surface preparation, priming, and finish coats specified in this Section are in addition to shop priming and surface treatment specified in other Sections.
- B. Paint exposed surfaces. If an item or a surface is not specifically mentioned, paint the item or surface the same as similar adjacent materials or surfaces. If a color of finish is not indicated, Owner will select from standard colors and finishes available.
 - 1. Painting includes field painting of exposed bare and covered pipes and ducts (including color coding), hangers, exposed steel and iron supports, and surfaces of mechanical and electrical equipment that do not have a factory-applied final finish.
- C. Do not paint prefinished items, concealed surfaces, finished metal surfaces, operating parts, and labels.
 - 1. Prefinished items include the following factory-finished components:
 - a. Acoustical wall panels
 - b. Metal toilet enclosures
 - c. Metal lockers
 - d. Finished mechanical and electrical equipment
 - e. Light fixtures
 - f. Wood Doors
 - 2. Concealed surfaces include walls or ceilings in the following generally inaccessible spaces:
 - a. Foundation spaces
 - b. Furred areas
 - c. Ceiling plenums
 - d. Utility tunnels
 - e. Pipe spaces
 - f. Duct shafts

3. Finished metal surfaces include the following:
 - a. Anodized aluminum
 - b. Stainless steel
 - c. Chromium plate
 - d. Copper and copper alloys
 - e. Bronze and brass
4. Operating parts include moving parts of operating equipment and the following:
 - a. Valve and damper operators
 - b. Linkages
 - c. Sensing devices
 - d. Motor and fan shafts
5. Labels: Do not paint over UL, FMG, or other code-required labels or equipment name, identification, performance rating, or nomenclature plates.

1.03 DEFINITIONS

- A. General: Standard coating terms defined in ASTM D 16 apply to this Section.
 1. Eggshell refers to low-sheen finish with a gloss range between 20 and 35 when measured at a 60-degree meter.
 2. Semi-gloss refers to medium-sheen finish with a gloss range between 35 and 70 when measured at a 60-degree meter.
 3. Full gloss refers to high-sheen finish with a gloss range more than 70 when measured at a 60-degree meter.

1.04 QUALITY ASSURANCE

- A. Applicator Qualifications: A firm or individual experienced in applying paints and coatings similar in material, design, and extent to those indicated for this Project, whose work has resulted in applications with a record of successful in-service performance.
- B. Source Limitations: Obtain block fillers and primers for each coating system from the same manufacturer as the finish coats.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to Project site in manufacturer's original, unopened packages and containers bearing manufacturer's name and label and the following information:
 1. Product name or title of material
 2. Product description (generic classification of binder type)
 3. Manufacturer's stock number and date of manufacture
 4. Contents by volume, for pigment and vehicle constituents
 5. Thinning instructions
 6. Application instructions
 7. Color name and number
 8. VOC content

- B. Store materials not in use in tightly covered containers in a well-ventilated area at a minimum ambient temperature of 45 deg. F (7deg C). Maintain storage containers in a clean condition, free of foreign materials and residue.
 - 1. Protect from freezing. Keep storage area neat and orderly. Remove oily rags and waste daily.

1.06 PROJECT CONDITIONS

- A. Apply waterborne paints only when temperatures of surfaces to be painted and surrounding air are between 50 and 90 deg F (10 and 32 deg C).
- B. Apply solvent-thinned paints only when temperatures of surfaces to be painted and surrounding air are between 45 and 95 deg F (7 and 35 deg C).
- C. Do not apply paint in snow, rain, fog, or mist; or when relative humidity exceeds 85 percent; or at temperatures less than 5 deg F (3 deg C) above the dew point; or to damp or wet surfaces.
 - 1. Painting may continue during inclement weather if surfaces and areas to be painted are enclosed and heated within temperature limits specified by manufacturer during application and drying periods.

PART 2 – PRODUCTS

2.01 MANUFACTURERS

- A. Products: Subject to compliance with requirements, provide one of the products listed in other Part 2 articles.
- B. Manufacturers' Names:
 - 1. Sherwin-Williams Co. (Sherwin-Williams)
 - 2. Benjamin Moore & Co. (Benjamin Moore)

2.02 PAINT MATERIALS, GENERAL

- A. Material Compatibility: Provide block fillers, primers, and finish-coat materials that are compatible with one another and with the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.
- B. Material Quality: Provide manufacturer's best-quality paint material of the various coating types specified that are factory formulated and recommended by manufacturer for application indicated. Paint-material containers not displaying manufacturer's product identification will not be acceptable.

2.03 EXTERIOR PRIMERS

- A. Exterior Ferrous-Metal Primer: Factory-formulated rust-inhibitive metal primer for exterior application.
 - 1. Sherwin-Williams; Kem Kromik Universal Metal Primer B50NZ6/B502Z1: Applied at a dry film thickness of not less than 3.0 mils.
 - 2. Benjamin Moore; Moore's IMC Alkyd Metal Primer No. M06: Applied at a dry film thickness of not less than 2.0 mils.

2.04 INTERIOR PRIMER

- A. Interior Ferrous-Metal Primer: Factory-formulated quick-drying rust-inhibitive alkyd-based metal primer.
 - 1. Benjamin Moore; Moore's IMC Alkyd Metal Primer No. M06: Applied at a dry film thickness of not less than 2.0 mils.
 - 2. Sherwin-Williams; Kem Kromik Universal metal Primer B50NZ6/B50WZ1: Applied at a dry film thickness of not less than 3.0 mils.

2.05 EXTERIOR FINISH COATS

- A. Exterior Full-Gloss Acrylic Enamel for Ferrous and Other Metals: Factory-formulated full-gloss waterborne acrylic-latex enamel for exterior application.
 - 1. Sherwin-Williams; A100 Exterior Latex
 - 2. Benjamin Moore Ironclad, Quick Dry Industrial Enamel: Applied at a dry film thickness of not less than 2.0 mils.

2.06 INTERIOR FINISH COATS

- A. Interior Semigloss Acrylic Enamel: Factory-formulated semi-gloss acrylic-latex enamel for interior application.
 - 1. Sherwin-Williams; ProMar 200 Interior Latex Semi-Gloss enamel B31W200 Series: Applied at a dry film thickness of not less than 1.3 mils.

2.07 INTERIOR WOOD STAINS AND VARNISHES

- A. Open-Grain Wood filler: Factory-formulated paste wood filler applied at spreading rate recommended by manufacturer.
 - 1. Sherwin-Williams; Sher-Wood fast-Dry Filler
 - 2. Benjamin Moore; Benwood Paste Wood Filler No. 238

- B. Interior Wood Stain: Factory-formulated alkyd-based penetrating wood stain for interior application applied at spreading rate recommended by manufacturer.
 - 1. Sherwin-Williams; Wood Classics Interior Oil Stain A-48 Series

- C. Clear Sanding Sealer: Factory-formulated fast-drying alkyd-based clear wood sealer applied at spreading rate recommended by manufacturer.
 - 1. Sherwin-Williams; Wood Classics Fast Dry Sanding Sealer B26V43.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Examine substrates, area, and conditions, with Applicator present, for compliance with requirements for paint application.
 - 1. Proceed with paint application only after unsatisfactory conditions have been corrected and surfaces receiving paint are thoroughly dry.
 - 2. Start of painting will be construed as Applicator's acceptance of surfaces and conditions within a particular area.
- B. Coordination of Work: Review other Sections in which primers are provided to ensure compatibility of the total system for various substrates. On request, furnish information on characteristics of finish materials to ensure use of compatible primers.
 - 1. Notify Owner about anticipated problems when using the materials specified over substrates primed by others.

3.02 PREPARATION

- A. General: Remove hardware and hardware accessories, plates, machined surfaces, lighting fixtures, and similar items already installed that are not to be painted. If removal is impractical or impossible because of size or weight of the item, provide surface-applied protection before surface preparation and painting.
 - 1. After completing painting operations in each space or area, reinstall items removed using workers skilled in the trades involved.
- B. Cleaning: Before applying paint or other surface treatments, clean substrates of substances that could impair bond of the various coatings. Remove oil and grease before cleaning.
 - 1. Schedule cleaning and painting so dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.

- C. Surface Preparation: Clean and prepare surfaces to be painted according to manufacturer's written instructions for each particular substrate condition and as specified.
1. Provide barrier coats over incompatible primers or remove and reprime.
 2. Ferrous Metals: Clean non-galvanized ferrous-metal surfaces that have not been shop coated: remove oil, grease, dirt, loose mill scale, and other foreign substances. Use solvent or mechanical cleaning methods that comply with SSPC's recommendations.
 - a. Treat bare and sandblasted or pickled clean metal with a metal treatment wash coat before priming.
 - b. Touch up bare areas and shop-applied prime coats that have been damaged. Wire-brush, clean with solvents recommended by paint manufacturer, and touch up with same primer as the shop coat.
- D. Material Preparation: Mix and prepare paint materials according to manufacturer's written instructions.
1. Maintain containers used in mixing and applying paint in a clean condition, free of foreign materials and residue.
 2. Stir material before application to produce a mixture of uniform density. Stir as required during application. Do not stir surface film into material. If necessary, remove surface film and strain material before using.
 3. Use only thinners approved by paint manufacturer and only within recommended limits.

3.03 APPLICATION

- A. General: Apply paint according to manufacturer's written instructions. Use applicators and techniques best suited for substrate and type of material being applied.
1. Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to formation of a durable paint film.
 2. Provide finish coats that are compatible with primers used.
 3. The term "exposed surfaces" includes areas visible when permanent or built-in fixtures, grilles, convector covers, covers for finned-tube radiation, and similar components are in place. Extend coatings in these areas, as required, to maintain system integrity and provide desired protection.
 4. Paint surfaces behind movable equipment and furniture the same as similar exposed surfaces.
 5. Before final installation of equipment, paint surfaces behind permanently fixed equipment or furniture with prime coat only.
 6. Paint back sides of access panels and removable or hinged covers to match exposed surfaces.
 7. Sand lightly between each succeeding enamel application.

- B. Scheduling Painting: Apply first coat to surfaces that have been cleaned, pretreated, or otherwise prepared for painting as soon as practical after preparation and before subsequent surface deterioration.
1. The number of coats and film thickness required are the same regardless of application method. Do not apply succeeding coats until previous coat has cured as recommended by manufacturer. If sanding is required to produce a smooth, even surface according to manufacturer's written instructions, sand between applications.
 2. Omit primer over metal surfaces that have been shop primed and touchup painted.
 3. If undercoats, stains, or other conditions show through final coat of paint, apply additional coats until paint film is of uniform finish, color and appearance. Give special attention to ensure that edges, corners, crevices, welds, and exposed fasteners receive a dry film thickness equivalent to that of flat surfaces.
 4. Allow sufficient time between successive coats to permit proper drying. Do not recoat surfaces until paint has dried to where it feels firm, and does not deform or feel sticky under moderate thumb pressure, and until application of another coat of paint does not cause undercoat to lift or lose adhesion.
- C. Application Procedures: Apply paints and coatings by brush, roller, spray, or other applicators according to manufacturer's written instructions.
1. Brushes: Use brushes best suited for type of material applied. Use brush of appropriate size for surface or item being painted.
 2. Rollers: Use rollers of carpet, velvet-back, or high-pile sheep's wool as recommended by manufacturer for material and texture required.
- D. Minimum Coating Thickness: Apply paint materials no thinner than manufacturer's recommended spreading rate to achieve dry film thickness indicated. Provide total dry film thickness of the entire system as recommended by manufacturer.
- E. Mechanical and Electrical Work: Painting of mechanical and electrical work is limited to items exposed in equipment rooms and occupied spaces.
- F. Mechanical items to be painted include, but are not limited to, the following:
1. Uninsulated metal piping
 2. Uninsulated plastic piping
 3. Pipe hangers and supports
 4. Tanks that do not have factory-applied final finishes
 5. Visible portions of internal surfaces of metal ducts, without liner, behind air inlets and outlets.
 6. Duct, equipment, and pipe insulation having "all-service jacket" or other paintable jacket material.
 7. Mechanical equipment that is indicated to have a factory-primed finish for field painting.

- G. Prime Coats: Before applying finish coats, apply a prime coat, as recommended by manufacturer, to material that is required to be painted or finished and that has not been prime coated by others. Recoat primed and sealed surfaces where evidence of suction spots or unsealed areas in first coat appears, to ensure a finish coat with no burn-through or other defects due to insufficient sealing.
- H. Pigmented (Opaque) Finishes: Completely cover surfaces as necessary to provide a smooth, opaque surface of uniform finish, color, appearance, and coverage. Cloudiness, spotting, holidays, laps, brush marks, runs sags, ropiness, or other surface imperfections will not be acceptable.
- I. Stipple Enamel Finish: Roll and redistribute paint to an even and fine texture. Leave no evidence of rolling, such as laps, irregularity in texture, skid marks, or other surface imperfections.
- J. Completed Work: match approved samples for color, texture, and coverage. Remove, refinish, or repaint work not complying with requirements.

3.04 FIELD QUALITY CONTROL

- A. Owner reserves the right to invoke test procedure at any time and as often as Owner deems necessary during the period when paint is being applied. Owner may direct Contractor to stop painting if test results show material being used does not comply with specified requirements. Contractor shall remove noncomplying paint from Project site, pay for testing, and repaint surfaces previously coated with the noncomplying paint. If necessary, Contractor may be required to remove noncomplying paint from previously painted surfaces if, on repainting with specified paint, the two coatings are incompatible.

3.05 CLEANING

- A. Cleanup: At the end of each workday, remove empty cans, rags, rubbish, and other discarded paint materials from Project site.
 - 1. After completing painting, clean glass and paint-spattered surfaces. Remove spattered paint by washing and scraping without scratching or damaging adjacent finished surfaces.

3.06 PROTECTION

- A. Protect work of other trades, whether being painted or not, against damage from painting. Correct damage by cleaning, repairing or replacing, and repainting, as approved by Owner.

- B. Provide “Wet Paint” signs to protect newly painted finishes. After completing painting operations, remove temporary protective wrappings provided by others to protect their work.
 - 1. After work of other trades is complete, touch up and restore damaged or defaced painted surfaces. Comply with procedures specified in PDCA P1.

3.07 EXTERIOR PAINT SCHEDULE

- A. Ferrous Metal: provide the following finish systems over exterior ferrous metal.
 - 1. Full-Gloss Acrylic-enamel Finish: Two finish coats over a rust-inhibitive primer.
 - a. Primer: Exterior ferrous-metal primer
 - b. Finish Coats: Exterior full-gloss acrylic enamel for ferrous and other metals.

3.08 INTERIOR PAINT SCHEDULE

- A. Ferrous Metal: Provide the following finish systems over ferrous metal:
 - 1. Semi-gloss Acrylic-Enamel Finish: Two finish coats over a primer.
 - a. Primer: Interior ferrous-metal primer
 - b. Finish Coats: Interior semi-gloss acrylic enamel.

SECTION 16100
DOOR CONTROLS AND ELECTRONIC HARDWARE

PART 1 – SCOPE

- A. Install electronic devices and door hardware for a card reader entry system and access assisted push button and operator system.
- B. Diagrams and products listed in this specification are not intended to be complete wiring diagrams or product lists. Parts not listed shall be selected and included in the submittals by the prime contractor. Upon completion at each site the prime contractor shall inform the project representative so the system can be programmed and tested prior to payment.
- C. The bid shall include all labor and material required for a complete functioning card reader system at each of the sites and their respective doors listed on the bid form and in the drawings.
- D. In the drawings there are three types of installation:
 - 1. Controls
 - a) There is already a strike or retractable panic installed at these doors. The contractor shall provide and install a card reader, door contact, request to exit, and power supply (if needed) on all doors labeled CONTROLS.
 - 2. Strike
 - a) Provide and install strike, card reader, door contact, request to exit, and power supply (if needed) on all doors labeled strike. If there is a panic bar on the door it may need to be moved slightly to make room for the strike. Prime contractor shall hire a contractor that works with installation and maintenance of door hardware to install, alter, or move door hardware. Applicable to doors labeled STRIKE.
 - 3. Panic
 - a) Provide and install a retractable panic, card reader, door contact, request to exit, and power supply on all doors labeled strike. Prime contractor shall hire a contractor that works with installation and maintenance of door hardware to install panic hardware. Applicable to doors labeled PANIC.

PART 2 – PRODUCTS

A. Assa Abloy

1. Retractable Panic

1	ElectroLynx Harness	QC-C1500P
1	Door Cord	TSB-C

B. Continental two Door Control Panel “SuperTwo” : Part Number: CICP1300:

SUPER TWO ACCESS CONTROL PANEL – (2) reader Access Control Processing panel (*for use with CA3000 V 2.0.25 and above*)

1. Up to 20,000 card capacity (125,000 w/expanded memory)
2. 8 EOL supervised alarm inputs, tamper, 5 Relay outputs
3. Support for on-board LAN adapter, 57,600 baud rate
4. 6 Access Groups per card-holder and Compressed Data Mode
5. Unit shipped complete in a lockable steel enclosure including battery standby for memory and system operation UL294 and CUL Listed

C. Network Interface Board for SuperTwo Door Control Panel: Part Number: CICP1300NETBD:

1. **NETWORK INTERFACE BOARD FOR USE WITH SUPER TWO ONLY** – Required on-board adapter allows for communication over TCP/IP

D. Card Reader

1. Card Reader: HID MiniProx 5365 – Reinstall existing Card Reader.

E. Door Contact/Door Position Switch:

1. Interlogix Part Number: 1076-N

F. Request to Exit/REX

1. Part Number: Bosch DS160

G. Power Supply: Altronix

1. Part Number: AL300ULX

H. Access Assist Push Button: Reinstall/reconnect existing access assist push button and hold open controller. Contractor to field verify existing equipment applicable for storefront application.

PART 3 – EXECUTION

A. Access Control Panels

1. Shall be mounted in node rooms, Cat5e from the control panel to the patch panel shall be provided and terminated as part of this project.
2. The owner shall install a patch cord from the patch panel to the switch. Program the IP addresses and program the access control panel.

B. Card Readers

1. Shall be installed on exterior walls or columns.
2. For Installation where there are 2 or more doors the card reader shall be on the right side of the doors as viewed from outside the building.
3. For single doors the card reader shall be installed on the latch side of the door.
4. See drawings for installation height.