

Requests for Competitive Sealed Proposals (RCSP) for High School Gym Doors and Canopies

Proposing contractors must label the outside of their proposal with the title above.

Bid Bond Required

A bid Bond in the amount of 5% of the total maximum amount of the contractor's proposal shall be submitted with the Sealed Proposal and should be attached to the proposal pricing form.

Sealed Proposals addressed to the TIDEHAVEN INDEPENDENT SCHOOL DISTRICT (TISD) Attention: Dr. Andrew Seigrist, Superintendent shall be received at the TISD Central Administration Building located at 47 CR 427, Doman Road, El Maton, Texas 77440 (Mailing Address: P.O. Box 129, El Maton, Texas 77440) until 3:30 PM, June 27, 2018. Proposals shall then be opened and proposers' names and prices read aloud.

Proposals shall be for the furnishing of all labor, materials, equipment, plant and superintendence required to be performed by the respective RCSP packages named above.

The RCSP Documents Package(s), which includes Instructions to Proposers, Proposal Documents, Technical Specifications, Contract Drawings, etc., may be examined or picked up at TISD Central, Administration Building, 47 CR 427 Doman Road, El Maton, TX 7740

Questions about this Solicitation should be directed to: Dr. Andrew Seigrist, Superintendent, Tidehaven ISD, 979-843-4307.

The TISD reserves the right to reject any and all Proposals and to waive informalities in the Proposal process

Estimated budgets and completion times are provided according to Texas Government Code 2269. However, you must provide your proposal the price on the proposal form and the time for completion.

The following are estimates only and actual times will be subject to proposals received and negotiations with selected vendor.

1. Estimated approximate completion date after contract is executed 6 to 8 weeks from notice to proceed then to allow time for submittals and fabrication
2. Estimated budget is \$ \$70,000

This clause controls over any other clause in this document.

CONTRACT SECURITY

- A. Payment Bonds shall be required for all work where the Contract exceeds \$25,000.00. A Performance Bond shall be required for all work where the Contract exceeds \$100,000. After award of contracts by Owner, the successful Proposer, at Proposer's expense, must deliver to the Owner an executed Performance and Payment Bond in an amount of 100% of the accepted proposal as security for the faithful performance of the Contract and payment of all persons performing labor and furnishing materials in connection with this Contract.
- B. Bonding Company must be licensed, listed, and approved in the State of Texas (State Board of Insurance).
- C. Bonding Company shall provide such other information as necessary to document net worth, stability, total bonding capacity, and projects under coverage, etc., with adequate financial capacity for this Project. If the Contract sum exceeds the underwriting limitation of the Surety on the most recent list of acceptable sureties, the Contractor shall provide the Owner with evidence that the excess is protected by re-insurance or co-insurance in a form and amount acceptable to the Owner.
- D. Such bonds shall meet the requirements of Chapter 2253 of the Texas Government Code.
- E. Costs of the above stated bonds and insurance are to be included in the proposal.
- F. Attorneys-in-Fact who sign bonds shall file with each bond a certified and effective dated copy of their Power of Attorney.
- G. The Performance Bond shall guarantee the repair and maintenance of all defects due to faulty materials

EVALUATION CRITERIA AND ASSIGNED WEIGHTS

FOR REQUEST FOR COMPETITIVE SEALED PROPOSALS (RCSP) OLD HIGH SCHOOL DEMOLITION (ELECTRICAL MODIFICATIONS PORTION) FOR TIDEHAVEN INDEPENDENT SCHOOL DISTRICT EL MATON, TEXAS

The evaluation criteria permitted by Texas Government code §2269 are

The process for evaluation and selection for the RCSP method as prescribed by Texas Government Code §2269 is as follows:

Sec. 2269.154. EVALUATION OF OFFERORS. (a) The governmental entity shall receive, publicly open, and read aloud the names of the offerors and any monetary proposals made by the offerors.(b) Not later than the 45th day after the date on which the proposals are opened, the governmental entity shall evaluate and rank each proposal submitted in relation to the published selection criteria.

Sec. 2269.155. SELECTION OF OFFEROR. (a) The governmental entity shall select the offeror that submits the proposal that offers the best value for the governmental entity based on:

- (1) the selection criteria in the request for proposal and the weighted value for those criteria in the request for proposal; and*
- (2) its ranking evaluation.*

(b) The governmental entity shall first attempt to negotiate a contract with the selected offeror. The governmental entity and its architect or engineer may discuss with the selected offeror options for a scope or time modification and any price change associated with the modification.

(c) If the governmental entity is unable to negotiate a satisfactory contract with the selected offeror, the governmental entity shall, formally and in writing, end negotiations with that offeror and proceed to the next offeror in the order of the selection ranking until a contract is reached or all proposals are rejected.

The evaluation criteria permitted by Texas Government Code §2269 are

Sec. 2269.055. CRITERIA TO CONSIDER. (a) In determining the award of a contract under this chapter, the governmental entity may consider:

- (1) the price;*
- (2) the offeror's experience and reputation;*
- (3) the quality of the offeror's goods or services;*
- (4) the impact on the ability of the governmental entity to comply with rules relating to historically underutilized businesses;*
- (5) the offeror's safety record;*

- (6) *the offeror's proposed personnel;*
- (7) *whether the offeror's financial capability is appropriate to the size and scope of the project; and*
- (8) *any other relevant factor specifically listed in the request for bids, proposals, or qualifications.*

The Tidehaven ISD has assigned the following criteria and weights for this project.

- (1) ***the price;*** 40% based on the price proposed
- (2) ***the offeror's experience and reputation;*** 30 points based on references and other known information of the evaluation committee. Contractor should provide a statement of qualifications with the proposal.
- (3) ***the quality of the offeror's goods or services;*** 30 points based on the based on references and other known information of the evaluation committee.

TOTAL 100 POINTS

FELONY CONVICTION NOTICE

FOR RESPONSE TO TIDEHAVEN ISD SOLICITATION

Statutory citation covering notification of criminal history of contractor is found in the Texas Education Code #44.034. Following is an example of a felony conviction notice:

State of Texas Legislative Senate Bill No. 1, Section 44.034, Notification of Criminal History, Subsection (a), states “a person or business entity that enters into a contract with a school district must give advance notice to the district if the person or an owner or operator of the business entity has been convicted of a felony. The notice must include a general description of the conduct resulting in the conviction of a felony.” Subsection (b) states “a school district may terminate a contract with a person or business entity if the district determines that the person or business entity failed to give notice as required by Subsection (a) or misrepresented the conduct resulting in the conviction. The district must compensate the person or business entity for services performed before the termination of the contract.”

THIS NOTICE IS NOT REQUIRED OF A PUBLICLY-HELD CORPORATION

Complete only one of the three below: A or B or C.

I, the undersigned agent for the firm named below, certify that the information concerning notification of felony convictions has been reviewed by me and the following information furnished is true to the best of my knowledge.

Official: _____
Print Authorized Company Official's Name

A. My firm is a publicly held corporation; therefore, this reporting requirement is not applicable.

Signature of Authorized Company Official: _____

OR

B. My firm is not owned nor operated by anyone who has been convicted of a felony:

Signature of Authorized Company Official: _____

OR

C. My firm is owned or operated by the following individual(s) who has/have been convicted of a felony:

Name of Felon(s): _____

Details of Conviction(s): _____

You may attach another sheet

Signature of Authorized Company Official: _____

**Notice to Vendors Conflict of Interest
Disclosure Statements Texas Local
Government Code, Chapter 176 for Tidehaven ISD**

Vendors are required to file a Conflict of Interest Questionnaire (Form CIQ) with the District **if an employment or business relationship or family relationship exists** between the vendor and a local government officer ("LGO") of the District or a family member of the LGO. **THERE ARE POTENTIAL CRIMINAL PENALTIES FOR FAILURE TO COMPLY WITH TEX. LOCAL GOVT. CODE CHAPTER 176.** Certain terms used herein are defined in Chapter 176. Vendors are encouraged to review and become familiar with all disclosure requirements of Chapter 176 and Form CIQ. The information contained herein is for information purposes only and shall not be construed as legal advice. "Vendor" means a person who enters or seeks to enter into a contract with a local governmental entity. The term includes an agent (including an employee) of a vendor.

A vendor is required to file a completed Form CIQ if the vendor has a business relationship with Tidehaven ISD and:

1. has an employment or other business relationship with a Local Government Officer ("LGO") of Tidehaven ISD or a family member of the LGO;
2. has given a LGO of the District, or a family member of the LGO, one or more gifts that have the aggregate value of more than \$100 in the 12-month period specified in Loc. Govt. Code Section 176.003(a)(2)(B), excluding any gift described by Section 176.003(a-1); or
3. has a family relationship with a LGO of the District.

Form CIQ must be filed with the appropriate District records administrator:

1. Not later than the seventh business day after the later of:
 - (1) the date that the vendor:
 - (A) begins discussions or negotiations to enter into a contract with the District; or
 - (B) submits to the District an application, response to a request for proposals or bids, correspondence, or other writing related to a potential contract with the District; or
 - (2) the date the vendor becomes aware:
 - (A) of an employment or other business relationship with a LGO, or a family member of the LGO;
 - (B) that the vendor has given one or more gifts described above; or
 - (C) of a family relationship with a LGO.
2. The vendor also shall file an updated completed questionnaire (Form CIQ) not later than the seventh business day after the date on which the vendor becomes aware of an event that would make a statement in the questionnaire in complete or inaccurate

Local Government Officers (LGOs) of the Tidehaven ISD as of February 05, 2018, include:

1. **Members of the Tidehaven ISD Board of Trustees:** current list found at <http://www.tidehavenisd.com/home/board-of-trustees>
2. Superintendent Dr. Andrew Seigrist
3. **An employee of Tidehaven ISD Board of Trustees:** who exercises discretion in the planning, recommending, selecting, or contracting of a vendor.

If you are required to file a Conflict of Interest Questionnaire (Form CIQ), upload the with your proposal.

CONFLICT OF INTEREST QUESTIONNAIRE

FORM CIQ

For vendor doing business with local governmental entity

This questionnaire reflects changes made to the law by H.B. 23, 84th Leg., Regular Session.

This questionnaire is being filed in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the vendor meets requirements under Section 176.006(a).

By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed. See Section 176.006(a-1), Local Government Code.

A vendor commits an offense if the vendor knowingly violates Section 176.006, Local Government Code. An offense under this section is a misdemeanor.

OFFICE USE ONLY

Date Received

1 Name of vendor who has a business relationship with local governmental entity.

2 **Check this box if you are filing an update to a previously filed questionnaire.** (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date on which you became aware that the originally filed questionnaire was incomplete or inaccurate.)

3 Name of local government officer about whom the information is being disclosed.

_____ Name of Officer

4 Describe each employment or other business relationship with the local government officer, or a family member of the officer, as described by Section 176.003(a)(2)(A). Also describe any family relationship with the local government officer. Complete subparts A and B for each employment or business relationship described. Attach additional pages to this Form CIQ as necessary.

A. Is the local government officer or a family member of the officer receiving or likely to receive taxable income, other than investment income, from the vendor?

Yes No

B. Is the vendor receiving or likely to receive taxable income, other than investment income, from or at the direction of the local government officer or a family member of the officer AND the taxable income is not received from the local governmental entity?

Yes No

5 Describe each employment or business relationship that the vendor named in Section 1 maintains with a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership interest of one percent or more.

6 Check this box if the vendor has given the local government officer or a family member of the officer one or more gifts as described in Section 176.003(a)(2)(B), excluding gifts described in Section 176.003(a-1).

7

Signature of vendor doing business with the governmental entity

Date

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor doing business with local governmental entity

A complete copy of Chapter 176 of the Local Government Code may be found at <http://www.statutes.legis.state.tx.us/Docs/LG/htm/LG.176.htm>. For easy reference, below are some of the sections cited on this form.

Local Government Code § 176.001(1-a): "Business relationship" means a connection between two or more parties based on commercial activity of one of the parties. The term does not include a connection based on:

- (A) a transaction that is subject to rate or fee regulation by a federal, state, or local governmental entity or an agency of a federal, state, or local governmental entity;
- (B) a transaction conducted at a price and subject to terms available to the public; or
- (C) a purchase or lease of goods or services from a person that is chartered by a state or federal agency and that is subject to regular examination by, and reporting to, that agency.

Local Government Code § 176.003(a)(2)(A) and (B):

(a) A local government officer shall file a conflicts disclosure statement with respect to a vendor if:

(2) the vendor:

(A) has an employment or other business relationship with the local government officer or a family member of the officer that results in the officer or family member receiving taxable income, other than investment income, that exceeds \$2,500 during the 12-month period preceding the date that the officer becomes aware that

- (i) a contract between the local governmental entity and vendor has been executed;
- or
- (ii) the local governmental entity is considering entering into a contract with the vendor;

(B) has given to the local government officer or a family member of the officer one or more gifts that have an aggregate value of more than \$100 in the 12-month period preceding the date the officer becomes aware that:

- (i) a contract between the local governmental entity and vendor has been executed; or
- (ii) the local governmental entity is considering entering into a contract with the vendor.

Local Government Code § 176.006(a) and (a-1)

(a) A vendor shall file a completed conflict of interest questionnaire if the vendor has a business relationship with a local governmental entity and:

- (1) has an employment or other business relationship with a local government officer of that local governmental entity, or a family member of the officer, described by Section 176.003(a)(2)(A);
- (2) has given a local government officer of that local governmental entity, or a family member of the officer, one or more gifts with the aggregate value specified by Section 176.003(a)(2)(B), excluding any gift described by Section 176.003(a-1); or
- (3) has a family relationship with a local government officer of that local governmental entity.

(a-1) The completed conflict of interest questionnaire must be filed with the appropriate records administrator not later than the seventh business day after the later of:

(1) the date that the vendor:

- (A) begins discussions or negotiations to enter into a contract with the local governmental entity; or
- (B) submits to the local governmental entity an application, response to a request for proposals or bids, correspondence, or another writing related to a potential contract with the local governmental entity; or

(2) the date the vendor becomes aware:

- (A) of an employment or other business relationship with a local government officer, or a family member of the officer, described by Subsection (a);
- (B) that the vendor has given one or more gifts described by Subsection (a); or
- (C) of a family relationship with a local government officer.

Texas Government Code 2270 Verification Form

Texas 2017 House Bill 89 has been signed into law by the governor and as of September 1, 2017 will become law codified as Texas Government Code § 2270 and 808 et seq.

The relevant section addressed by this form reads as follows:

Texas Government Code Sec. 2270.002. PROVISION REQUIRED IN CONTRACT. A governmental entity may not enter into a contract with a company for goods or services unless the contract contains a written verification from the company that it: (1) does not boycott Israel; and (2) will not boycott Israel during the term of the contract.

I, _____ as an authorized representative of

_____, a contractor/vendor

Insert Name of Company

engaged by

Tidehaven ISD, PO Box 129, El Maton, Texas 77440

verify by this writing that the above-named company affirms that it (1) does not boycott Israel; and (2) will not boycott Israel during the term of this contract, or any contract with the above-named Texas governmental entity in the future. I further affirm that if our company’s position on this issue is reversed and this affirmation is no longer valid, that the above-named Texas governmental entity will be notified in writing within one (1) business day and we understand that our company’s failure to affirm and comply with the requirements of Texas Government Code 2270 et seq. shall be grounds for immediate contract termination without penalty to the above-named Texas governmental entity.

AND

our company is not listed on and we do not do business with companies that are on the the Texas Comptroller of Public Accounts list of Designated Foreign Terrorists Organizations per Texas Gov't Code 2270.0153 found at <https://comptroller.texas.gov/purchasing/docs/foreign-terrorist.pdf>

I swear and affirm that the above is true and correct.

Signature of Named Authorized Company Representative

Date

All Contractors and subcontractors must agree to follow the following statutory requirements if awarded a contract as a result of this solicitation

Sec. 22.08341. CRIMINAL HISTORY RECORD INFORMATION REVIEW BY CERTAIN PUBLIC WORKS CONTRACTORS. (a) In this section:

(1) "Contracting entity" means an entity that contracts directly with a school district, open-enrollment charter school, or shared services arrangement to provide engineering, architectural, or construction services to the district, school, or arrangement.

(2) "Instructional facility" has the meaning assigned by Section [46.001](#).

(3) "Subcontracting entity" means an entity that contracts with another entity that is not a school district, open-enrollment charter school, or shared services arrangement to provide engineering, architectural, or construction services to a school district, open-enrollment charter school, or shared services arrangement.

(b) This subsection applies to a person who is not an applicant for or holder of a certificate under Subchapter B, Chapter [21](#), and who is employed by a contracting or subcontracting entity on a project to design, construct, alter, or repair a public work if the person has or will have:

(1) continuing duties related to the contracted services; and

(2) the opportunity for direct contact with students in connection with the person's continuing duties.

(c) For purposes of Subsection (b), a person does not have the opportunity for direct contact with students if:

(1) the public work does not involve the construction, alteration, or repair of an instructional facility;

(2) for a public work that involves construction of a new instructional facility, the person's duties related to the contracted services will be completed not later than the seventh day before the first date the facility will be used for instructional purposes; or

(3) for a public work that involves an existing instructional facility:

(A) the public work area contains sanitary facilities and is separated from all areas used by students by a secure barrier fence that is not less than six feet in height; and

(B) the contracting entity adopts a policy prohibiting employees, including subcontracting entity employees, from interacting with students or entering areas used by students, informs employees of the policy, and enforces the policy at the public work area.

(d) A contracting entity or subcontracting entity may not permit an employee to whom Subsection (b) applies to provide services at an instructional facility if the employee, during the preceding

30 years, was convicted of any of the following offenses and the victim was under 18 years of age or was enrolled in a public school:

- (1) a felony offense under Title 5, Penal Code;
- (2) an offense on conviction of which a defendant is required to register as a sex offender under Chapter [62](#), Code of Criminal Procedure; or
- (3) an offense under the laws of another state or federal law that is equivalent to an offense under Subdivision (1) or (2).

(e) For a person to whom Subsection (b) applies, the contracting entity or subcontracting entity that employs the person shall:

- (1) send or ensure that the person sends to the department information that is required by the department for obtaining national criminal history record information, which may include fingerprints and photographs;
- (2) obtain all criminal history record information that relates to the person through the criminal history clearinghouse as provided by Section [411.0845](#), Government Code; and
- (3) certify to the school district, open-enrollment charter school, shared services arrangement, or contracting entity, as applicable, that the contracting entity or subcontracting entity that employs the person has received all criminal history record information relating to the person.

(f) A contracting entity shall certify to the school district, open-enrollment charter school, or shared services arrangement, as applicable, that the contracting entity has obtained written certifications from any subcontracting entity that the subcontracting entity has complied with Subsection (e) as it relates to the subcontracting entity's employees.

(g) On receipt of information described by Subsection (e)(1), the department shall obtain the person's national criminal history record information and report the results through the criminal history clearinghouse as provided by Section [411.0845](#), Government Code.

(h) A school district, open-enrollment charter school, or shared services arrangement may directly obtain the criminal history record information of a person to whom Subsection (b) applies through the criminal history clearinghouse as provided by Section [411.0845](#), Government Code.

(i) If a contracting entity or subcontracting entity determines that Subsection (b) does not apply to an employee, the contracting or subcontracting entity shall make a reasonable effort to ensure that the conditions or precautions that resulted in the determination that Subsection (b) does not apply to the employee continue to exist throughout the time that the contracted services are provided.

(j) In the event of an emergency, a school district, open-enrollment charter school, or shared services arrangement may allow a person to whom Subsection (b) applies to enter an instructional facility if the person is accompanied by an employee of the district, school, or arrangement. A school district, open-enrollment charter school, or shared services arrangement may adopt a policy regarding an emergency for purposes of this subsection.

(k) The commissioner may adopt rules necessary to implement this section.

Added by Acts 2017, 85th Leg., R.S., Ch. 1070 (H.B. [3270](#)), Sec. 2, eff. September 1, 2017.

Prevailing Wage Rates Required for this Project

The following pages are the prevailing wage rates for this project and are required by Texas law.

**RESOLUTION OF THE BOARD OF TRUSTEES OF TIDEHAVEN INDEPENDENT SCHOOL DISTRICT
DETERMINATION OF PREVAILING WAGE RATE FOR CONSTRUCTION PROJECTS**

WHEREAS, the Tidehaven Independent School District (the "District" or "TISD") is undertaking multiple construction projects (the "Projects"); and

WHEREAS, the Projects include the following work, demolition of selected portions of the old high school complex, renovation of the agriculture shop at the old high school complex, electrical modifications of old high school complex, asbestos and hazardous materials abatement of the old high school complex.

WHEREAS, Chapter 2258 of the Texas Government Code requires the Board of Trustees ("Board") of TISD to determine the general prevailing wage rate in the locality where the Projects will be constructed.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF TRUSTEES OF TIDEHAVEN INDEPENDENT SCHOOL DISTRICT AS FOLLOWS:

1. It is found that the foregoing recitals are true and correct and are hereby adopted as findings of fact by the Board of Trustees of Tidehaven Independent School District.
2. The TISD Board of Trustees further determines that the prevailing wage rate in Tidehaven ISD for the Project is as determined by the United States Department of Labor in its Wage Rate General Decision # TX180248 for Matagorda and Refugio Counties, Texas and dated January 5, 2018 and incorporated herein as Exhibit "A" to this resolution.
3. The TISD Board of Trustees further determines that the prevailing wage rate for the Project for legal holiday and overtime work is the rate of one and one-half times the prevailing wage rate determined above.
4. If the wage rate is updated by the US Department of Labor at <https://www.wdol.gov/dba.aspx> before the publication of the solicitation, then the wage rates applicable at the time of the publication shall be substituted for the above specified rate.
5. This Resolution shall take effect immediately.

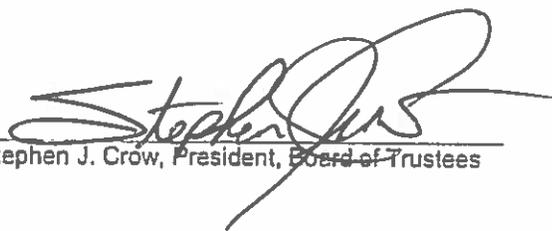
PASSED and ADOPTED the 6th day of February, 2018, by the Board of Trustees of the Tidehaven Independent School District by the following vote:

AYES: 4

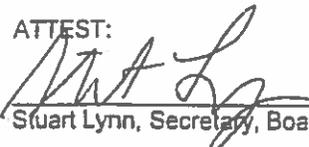
NOES: 0

ABSENT: 3

ABSTAIN: 0


Stephen J. Crow, President, Board of Trustees

ATTEST:


Stuart Lynn, Secretary, Board of Trustees

General Decision Number: TX180248 03/23/2018 TX248

Superseded General Decision Number: TX20170248

State: Texas

Construction Type: Building

Counties: Matagorda and Refugio Counties in Texas.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.35 for calendar year 2018 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.35 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2018. The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/05/2018
1	03/23/2018

ASBE0022-003 06/01/2017

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR.....	\$ 23.26	12.92

* ASBE0087-010 01/01/2018

Refugio County

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR.....	\$ 22.72	10.02

BOIL0074-003 01/01/2017

	Rates	Fringes
BOILERMAKER.....	\$ 28.00	22.35

IRON0066-008 06/01/2017

Refugio County

Rates	Fringes
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IRONWORKER, REINFORCING AND
 STRUCTURAL.....\$ 21.55 6.73

 IRON0084-003 06/01/2017

Matagorda County

Rates Fringes

IRONWORKER, STRUCTURAL AND
 REINFORCING.....\$ 23.27 7.12

 LAB00154-001 05/01/2008

Rates Fringes

Laborers: (Mason Tender -
 Cement/Concrete).....\$ 12.98 3.49

 PLUM0068-002 10/01/2017

Rates Fringes

PLUMBER.....\$ 34.90 10.54

 PLUM0142-004 07/01/2017

Refugio County

Rates Fringes

Plumber.....\$ 30.25 11.80

 SUTX2009-103 04/20/2009

Rates Fringes

BRICKLAYER.....\$ 19.67 0.00

CARPENTER.....\$ 13.18 0.00

CEMENT MASON/CONCRETE FINISHER...\$ 13.27 0.00

ELECTRICIAN.....\$ 20.00 3.11

LABORER: Common or General.....\$ 12.02 0.00

LABORER: Landscape &
 Irrigation.....\$ 8.50 0.22

LABORER: Mason Tender - Brick...\$ 12.02 0.00

LABORER: Mortar Mixer.....\$ 12.00 0.00

OPERATOR:
 Backhoe/Excavator/Trackhoe.....\$ 13.75 0.00

OPERATOR: Bulldozer.....\$ 12.80 0.43

OPERATOR: Crane.....\$ 21.33 0.00

OPERATOR: Forklift.....\$ 14.58 0.00

OPERATOR: Loader (Front End)....\$ 10.54 0.00

PAINTER: Brush, Roller and Spray.....	\$ 12.26	0.00
ROOFER.....	\$ 13.64	1.80
SHEET METAL WORKER.....	\$ 17.00	0.00
TILE SETTER.....	\$ 15.00	0.00
TRUCK DRIVER.....	\$ 11.24	0.35

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing

the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial

contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

=====

END OF GENERAL DECISION

**RESOLUTION OF THE BOARD OF TRUSTEES OF
TIDEHAVEN INDEPENDENT SCHOOL DISTRICT DETERMINING METHOD OF PROCUREMENT
AND DELEGATING AUTHORITY CONCERNING CONSTRUCTION MATTERS**

WHEREAS, the Tidehaven Independent School District (the "District" or "TISD") is undertaking multiple construction projects (the "Projects"); and

WHEREAS, the Projects include the following work, demolition of selected portions of the old high school complex, renovation of the agriculture shop at the old high school complex, electrical modifications of old high school complex, asbestos and hazardous materials abatement of the old high school complex.

WHEREAS, the Board of Trustees of the Tidehaven ISD has determined that Request for Competitive Sealed Proposal procurement method provides the best value to the TISD for the Projects; and

WHEREAS, the Board of Trustees of the Tidehaven ISD desires to delegate its authority with regard to certain actions authorized or required by Chapter 2269 of the Texas Government Code concerning the Project to the TISD Superintendent, certain designated representatives, committees or other persons and hereby provides notice of the delegation, the limits of the delegation and the name or title of each person or committee.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF TRUSTEES OF TIDEHAVEN INDEPENDENT SCHOOL DISTRICT AS FOLLOWS:

1. It is found that the foregoing recitals are true and correct and are hereby adopted as findings of fact by the Board of Trustees of Tidehaven Independent School District.
2. The delegations enumerated herein are made and determined by rule as permitted by law, and wherever the word "proposal(s)" is used herein, it shall be deemed to include bid(s) and/or qualification(s), as applicable.
3. The Board of Trustees of Tidehaven Independent School District delegates to the TISD Superintendent of Schools, with regard to the Projects, the authority to: (1) develop Requests for Competitive Sealed Proposals and any other solicitation documents, as appropriate and in keeping with the Board's selected procurement or delivery method; (2) establish the selection criteria and the weight to be given to each criterion to be used in evaluating and ranking proposals; (3) advertise or publish notices of requests for competitive sealed proposals in a manner prescribed by law and/or otherwise solicit proposals in accordance with law; (4) appoint members to an evaluation committee(s) to analyze and rank bids, proposals or qualifications, the members to be appointed by name or title, which could include, but is not limited to, a representative or representatives of the design professionals for the Project; (5) receive and publicly open the proposals and read aloud the names of the offerors/bidders/proposers and any monetary amounts, or designate another individual(s) to perform those functions; (6) evaluate, analyze and rank the proposals according to the published selection criteria and weights through the appointed evaluation committee; (7)

negotiate proposals and contracts; and (8) other ministerial duties as required to procure public work contracts.

4. The Board of Trustees of Tidehaven Independent School District further authorizes both the TISD Superintendent of Schools and the proposal evaluation committee to utilize the assistance of any person or entity that they deem appropriate, including, but not limited to, the design professionals for the Project, and/or the legal counsel of TISD, in carrying out the authority granted to them.
5. The Board of Trustees of Tidehaven Independent School District further delegates to the Superintendent the authority to publish, offer and negotiate the terms and conditions of contracts pertaining to the Project.
6. This Resolution shall take effect immediately.

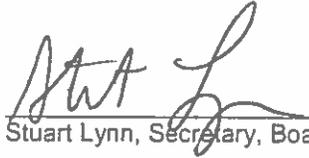
PASSED and ADOPTED the 6th day of February, 2018, by the Board of Trustees of the Tidehaven Independent School District by the following vote:

AYES: 4
NOES: 0
ABSENT: 3
ABSTAIN: 0



Stephen J. Crow, President, Board of Trustees

ATTEST:



Stuart Lynn, Secretary, Board of Trustees

Project Manual for

TIDEHAVEN HIGH SCHOOL GYM DOORS & CANOPIES

for the

TIDEHAVEN INDEPENDENT SCHOOL DISTRICT

June 7, 2018

SECTION 00 01 01 - TITLE PAGE

TITLE AND LOCATION OF THE WORK

TIDEHAVEN HIGH SCHOOL GYM DOOR & CANOPIES
El Maton, Texas

NAME AND ADDRESS OF THE OWNER

TIDEHAVEN INDEPENDENT SCHOOL DISTRICT
P.O. Box 129
El Maton, Texas 77440
P 361.588.6321
F 361.588.7109

DATE: June 7, 2018

END OF DOCUMENT

SECTION 00 01 16 - INVITATION TO PROPOSERS

PROJECT: TIDEHAVEN HIGH SCHOOL GYM DOORS & CANOPIES
TIDEHAVEN INDEPENDENT SCHOOL DISTRICT

PROPOSAL DATE AND TIME: June 27, 2018

All proposals must be in the hands of the Owner no later than the time specified above. Please seal all proposals in duplicate in an envelope with the following information of the face of the envelope:

Name of Offeror
Tidehaven High School Gym Door & Canopies
Tidehaven Independent School District

LOCATION OF PROPOSAL

OPENING: CENTRAL ADMINISTRATION BUILDING
47 CR 427 DOMAN ROAD
EL MATON, TEXAS 77440

ARCHITECT: STANTEC ARCHITECTURE INC.
20 EAST GREENWAY PLAZA, SUITE 200
HOUSTON, TEXAS 77046
(713) 548-5700
CONTACT: RAYCE BOYTER

1.1 RECEIPT AND OPENING OF PROPOSALS

- A. Sealed Proposals for the above referenced project shall be received at the following location:

TIDEHAVEN INDEPENDENT SCHOOL DISTRICT
CENTRAL ADMINISTRATION BUILDING
47 CR 427 DOMAN ROAD
EL MATON, TEXAS 77440

- B. Proposals will not be accepted after designated time, according to the Owner's clock at the place of submittal.
- C. Proposals shall be on a lump sum basis. Proposals received after the date and time specified shall not be accepted.
- D. The Owner invites Proposals on the form indicated in Section 00 41 00 for the above referenced project.
- E. The Owner may consider informal any Proposal not prepared and submitted in accordance with the provisions. Any Proposal may be withdrawn prior to the scheduled time for the opening of Proposals or authorized postponement thereof. Any Proposal received after the time and date specified shall not be considered. No Proposer shall withdraw a Proposal within thirty (30) days after the actual date of the opening thereof.
- F. By execution and submission of a Proposal, the Proposer attests and affirms that he and his subcontractors are skilled and experienced in the use and interpretation of plans, specifications, addenda and related documents and, that he has carefully reviewed the plans, specifications, addenda and related documents for this project and has found them to be free of conflicts and/or ambiguities and sufficient for the purpose of submitting a Proposal, and for construction. Further, he has carefully examined the soils reports and the site of the work, and - through his own personal observations - has satisfied himself as to the nature,

location and requirements of the work; the character, quality and quantity of materials required; the difficulties likely to be encountered; the other items and/or conditions which may affect the satisfactory performance of the work. He has based his Proposal solely on these documents - and personal observations - and has not relied in any way on any explanation or interpretation - oral or written - from any source other than those written and issued by the Architect/Engineer.

- G. Representations: by execution and submission of a Proposal, the Proposer hereby represents and warrants to the Owner as follows:
 - 1. The Proposer has read and understands the Proposal documents and the Contract Documents and the Proposal is made in accordance with the Proposal Documents.
- H. By submitting a Proposal, each Proposer agrees to waive any claim it has or may have against the Owner, the Architect/Engineer, and their respective employees arising out of or in connection with the administration, evaluation, or recommendation of any Proposal; waiver of any requirements under the Proposal Documents, or the Contract Documents; and award of the Contract.
- I. The Proposer agrees that the Owner has the right to accept or reject any or all Proposals and to waive all informalities.
- J. The Owner reserves the right to hold all Proposals for thirty (30) days from date of receipt without action, to reject any and all Proposals, to waive irregularities, and to require statements or evidence of Offerors qualifications including financial statements.
- K. The owner may make such investigations as he deems necessary to determine the ability of the proposer to perform the Work, and the proposer shall furnish all such information and data for this purpose as may be requested. The Owner reserves the right to reject any proposal if the evidence submitted by, or investigation of, such proposer fails to satisfy the Owner that such proposer is properly qualified to carry out the obligations of the Contract and to complete the Work contemplated therein.
- L. By submitting a proposal, each Proposer agrees to waive any claim it has or may have against the Owner, the Architect/Engineer, and their respective employees, arising out of or in connection with the administration, evaluation, or recommendation of any proposal; waiver of any requirements under the Proposal Documents of the Contract Documents; acceptance or rejection of any proposals; and award of the Contract.

1.2 NOTIFICATION OF CRIMINAL HISTORY OF CONTRACTOR

- A. A person or business entity that enters into a contract with a school district must give advance notice to the district if the person or an owner or operator of the business entity has been convicted of a felony. The notice must include a general description of the conduct resulting in the conviction of a felony.
- B. A school district may terminate a contract with a person or business entity if the district determines that the person or business entity failed to give notice as required by subsection a) or misrepresented the conduct resulting in the conviction. The district must compensate the person or business entity for services performed before the termination of the contract.
- C. This section does not apply to publicly held corporations.

Added by acts 1995, 74th Leg., ch. 260, ss.1., eff. May 30, 1995

END OF SECTION

SECTION 00 21-13 - INSTRUCTIONS TO PROPOSERS

- A. The Instructions to Proposers are set forth in the American Institute of Architects Document A701, entitled "Instructions to Bidders", dated 1997, containing Articles 1 through 8.
- B. All references to "Bidder" have been or shall be replaced with "Proposer" for use in this and all other documents pertaining to this Project.

END OF SECTION

SECTION 00 41 00 - PROPOSAL FORM

PROJECT: TIDEHAVEN HIGH SCHOOL GYM DOORS & CANOPIES
PLACE: TIDEHAVEN INDEPENDENT SCHOOL DISTRICT
CENTRAL ADMINISTRATION BUILDING
47 CR 427 DOMAN ROAD
EL MATON, TEXAS 77440
DATE: JUNE 27, 2018
TIME: Due at 3:00 PM
TO: THE BOARD OF TRUSTEES, TIDEHAVEN INDEPENDENT SCHOOL DISTRICT

Pursuant to and in compliance with the Invitation to Proposers and the proposed Contract Documents dated **June 7, 2018**, prepared by Stantec Architecture, relating to the above referenced project, the undersigned, hereby proposes and agrees to fully perform the work within the time stated and in strict accordance with the proposed Contract Documents, and addenda thereto, for the following sum of money:

BASE PROPOSAL

All labor, materials, services, and equipment necessary for completion of the work shown on the drawings and in the specifications except the work indicated by the alternates.

_____ DOLLARS (\$ _____)
(written amount) (numerical amount)

CONTRACT EXECUTION - If awarded this contract the undersigned shall execute a satisfactory Construction Contract, Performance Bond, Labor and Material Payment Bond and proof of insurance coverage, with the Owner for the entire work as per the Contract Documents within 10 days after notice of award. It is agreed that this proposal is subjected to the Owners acceptance for a period of 30 (Thirty days) from the above date.

EXTRA WORK

The undersigned agrees that should any change in the work or extra work be ordered, the allowance for overhead and profit combined shall be as scheduled below, but in no case shall it exceed 15%. The following applicable percentages shall be added to the extra work cost as defined by Article 7 of the General Conditions.

Allowance to the Contractor for overhead and profit for extra work provided by his own forces: 10%.

Allowance to Subcontractors and Sub-subcontractors for overhead and profit for extra work: Not to exceed a total of 10% of the amount of the change.

Allowance to the Contractor for overhead and profit for extra work provided by a subcontractor and supervised by the Contractor: 5%.

The General Contractor shall not be allowed to charge the Owner for "extended overhead" charges relating to change orders or weather delays.

The undersigned agrees to the following:

To furnish all labor and materials as shown and specified.

To complete the base proposal (and any Alternates selected) including anticipated delay days due to inclement weather or muddy ground conditions by the date specified in Section 01 10 00 - Summary of Work.

The full amount of all allowances as specified in the General Requirements, Division 1, of the Specifications, is included in the Base Proposal price shown.

Receipt is acknowledged of the following addenda:

No. _____ Dated _____

No. _____ Dated _____

No. _____ Dated _____

By execution and submission of this Proposal, the Proposer attests and affirms that he and his subcontractors are skilled and experienced in the use of plans, specifications, addenda and related bid documents, and that he has carefully reviewed the plans, specifications, addenda and related proposal documents for this project and has found them to be sufficient for proposal and construction purposes. Further, he has carefully examined the soils reports and the site of the work, and - through his own personal observations - has satisfied himself as to the nature, location and requirements of the work; the character, quality and quantity of materials required; the difficulties likely to be encountered; the other items and/or conditions which may affect the satisfactory performance of the work. He has based his proposal solely on these documents - and personal observations - and has not relied in any way on any explanation or interpretation - oral or written - from any source other than those written and issued by the Architect/Engineer.

Representations: by execution and submission of this Proposal, the Proposer hereby represents and warrants to the Owner as follows:

The Proposer has read and understands the Proposal Documents and the Contract Documents and the Proposal is made in accordance with the Proposal Documents.

By submitting this Proposal, each Proposer agrees to waive any claim it has or may have against the Owner, the Architect/Engineer, and their respective employees arising out of or in connection with the administration, evaluation, or recommendation of any Proposal; waiver of any requirements under the Proposal Documents, or the Contract Documents; and award of the Contract.

Proposer agrees that the Owner has the right to accept or reject any or all Proposals and to waive all informalities.

Respectfully submitted,

By: _____
Signature

Title

Company

Address

City, State, Zip Code

Telephone Number

Email Address

END OF SECTION

SECTION 00 60 00 - BONDS AND CERTIFICATES

1.1 GENERAL

- A. The Contractor shall furnish the following Bonds and Certificates to be delivered simultaneously with the executed contract:
 - 1. Performance Bond
 - 2. Payment Bond
 - 3. Certificates of Insurance - Provide on AIA Document G715 (1991 Edition)

1.2 CONTRACT SECURITY

- A. Performance and Payment Bonds shall be required for all work where the Contract exceeds \$25,000.00. After award of contracts by Owner, the successful Proposer, at Proposer's expense, must deliver to the Owner an executed Performance and Payment Bond in an amount of 100% of the accepted proposal as security for the faithful performance of the Contract and payment of all persons performing labor and furnishing materials in connection with this Contract.
- B. Bonding Company must be licensed, listed, and approved in the State of Texas (State Board of Insurance).
- C. Bonding Company shall provide such other information as necessary to document net worth, stability, total bonding capacity, and projects under coverage, etc., with adequate financial capacity for this Project. If the Contract sum exceeds the underwriting limitation of the Surety on the most recent list of acceptable sureties, the Contractor shall provide the Owner with evidence that the excess is protected by re-insurance or co-insurance in a form and amount acceptable to the Owner.
- D. Such bonds shall meet the requirements of Chapter 2253 of the Texas Government Code.
- E. Costs of the above stated bonds and insurance are to be included in the proposal.
- F. Attorneys-in-Fact who sign bonds shall file with each bond a certified and effective dated copy of their Power of Attorney.
- G. The Performance Bond shall guarantee the repair and maintenance of all defects due to faulty materials and workmanship that appear within one (1) year from date of substantial completion.

END OF SECTION

SECTION 01 10 00 - SUMMARY OF WORK

PART 1 - GENERAL

1.1 PROJECT DESCRIPTION

- A. The Project is located at Tidehaven High School in El Maton, Texas at the southeast corner of State Highway 35 and FM 1095 and consists of the following:
 - 1. Replacement of the existing exterior aluminum framed storefront doors and entrances, glazing, and door hardware with standard steel door and frame entrances, glazing, and door hardware as indicated on drawings.
 - 2. The addition of metal entry canopies over entrances as indicated on the drawings.
- B. The Work consists of Architectural requirements as indicated in the drawings and specifications.

1.2 CONTRACTOR USE OF PREMISES

- A. The Owner will occupy all portions of the existing site and building throughout the construction period. Limit use of the premises to construction activities in areas indicated; allow for Owner occupancy and use by the public for areas outside the limits of construction. Confine operations to areas within the limits indicated. Portions of the premises beyond areas in which construction operations are indicated are not to be disturbed.
- B. Use of Existing Buildings: Maintain existing buildings in a weathertight condition throughout the construction period. Repair damage caused by construction operations. Take all precautions necessary to protect the building and its occupants during the construction period.

PART 2 - PRODUCTS (Not applicable).

PART 3 - EXECUTION (Not applicable).

END OF SECTION

SECTION 01 25 13 - PRODUCT SUBSTITUTIONS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and other Division-1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section specifies administrative and procedural requirements for handling requests for substitutions made both prior to receipt of bids and after as herein specified.
- B. The Contractor's Construction Schedule and the Schedule of Submittals are included under Section "Submittal Requirements."
- C. Standards: Refer to Section "Reference Standards and Definitions" for applicability of industry standards to products specified.
- D. Procedural requirements governing the Contractor's selection of products and product options are included under Section "Product Requirements."

1.3 DEFINITIONS

- A. Definitions used in this Article are not intended to change or modify the meaning of other terms used in the Contract Documents.
- B. Substitutions: Requests for changes in products, materials, equipment, and methods of construction required by Contract Documents proposed by the Contractor 10 days prior to receipt of bids are considered requests for substitutions. The following are not considered substitutions:
 - 1. Substitutions requested by Bidders during the bidding period, and accepted prior to award of Contract, are considered as included in the Contract Documents.
 - 2. Revisions to Contract Documents requested by the Owner or Architect.
 - 3. Specified options of products and construction methods included in Contract Documents.
 - 4. The Contractor's determination of and compliance with governing regulations and orders issued by governing authorities.

1.4 SUBMITTALS

- A. Substitution Request Submittal: Requests for substitution will be considered if received at least 10 days prior to proposal date. Requests received after commencement of the Work may be considered or rejected at the discretion of the Architect.
 - 1. Submit 3 copies of each request for substitution for consideration. Submit requests in the form **attached in this section** and in accordance with procedures required for Change Order proposals.
 - 2. Identify the product, or the fabrication or installation method to be replaced in each request. Include related Specification Section and Drawing numbers. Provide complete documentation showing compliance with the requirements for substitutions, and the following information, as appropriate:
 - 3. Product Data, including Drawings and descriptions of products, fabrication and installation procedures.
 - 4. Samples, where applicable or requested.

5. A detailed comparison of significant qualities of the proposed substitution with those of the Work specified. Significant qualities may include elements such as size, weight, durability, performance and visual effect.
 6. Coordination information, including a list of changes or modifications needed to other parts of the Work and to construction performed by the Owner and separate Contractors that will become necessary to accommodate the proposed substitution.
 7. A statement indicating the substitution's effect on the Anticipated Project Schedule and Contract Construction Schedule after award of contract compared to the schedule without approval of the substitution. Indicate the effect of the proposed substitution on overall Contract Time.
 8. Cost information, including a proposal of the net change, if any, from the specified product or assembly, or the contract sum.
 9. Certification by the Bidder or Contractor that the substitution proposed is equal-to or better in every significant respect to that required by the Contract Documents, and that it will perform adequately in the application indicated. Include the Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of the failure of the substitution to perform adequately.
- B. Architect's Action: If a decision on use of a proposed substitute cannot be made or obtained within the time allocated, use the product specified by name. Acceptance of the proposed substitution will be in the form of an Addendum which lists all prior approved products prior to award of contract and a change order after the award of contract.

PART 2 - PRODUCTS

2.1 SUBSTITUTIONS

- A. Conditions: The Proposer's or Contractor's substitution request will be received and considered by the Architect when all of the mandatory conditions are satisfied and one or more of the optional conditions are satisfied, as determined by the Architect; otherwise requests will be returned without action except to record noncompliance with these requirements.
1. Mandatory Conditions:
 - a. Submitted as required prior to bidding.
 - b. Extensive revisions to Contract Documents are not required.
 - c. Proposed changes are in keeping with the general intent of Contract Documents.
 - d. The request is timely, fully documented and properly submitted.
 2. Optional Conditions:
 - a. The request is directly related to an "or equal" clause or similar language in the Contract Documents.
 - b. The specified product or method of construction cannot be provided within the Contract Time. The request will not be considered if the product or method cannot be provided as a result of failure to pursue the Work promptly or coordinate activities properly.
 - c. The specified product or method of construction cannot receive necessary approval by a governing authority, and the requested substitution can be approved.
 - d. A substantial advantage is offered the Owner, in terms of cost, time, energy conservation or other considerations of merit, after deducting offsetting responsibilities the Owner may be required to bear. Additional responsibilities for the Owner may include additional compensation to the Architect for redesign and evaluation services, increased cost of other construction by the Owner or separate

Contractors, and similar considerations.

- e. The specified product or method of construction cannot be provided in a manner that is compatible with other materials, and where the Bidder or Contractor certifies that the substitution will overcome the incompatibility.
- f. The specified product or method of construction cannot be coordinated with other materials, and where the Bidder or Contractor certifies that the proposed substitution can be coordinated.
- g. The specified product or method of construction cannot provide a warranty required by the Contract Documents and where the Bidder or Contractor certifies that the proposed substitution provide the required warranty.
- h. The Contractor's submittal and Architect's acceptance of Shop Drawings, Product Data or Samples that relate to construction activities not complying with the Contract Documents does not constitute an acceptable or valid request for substitution, nor does it constitute approval.

2.2 FAILURE OF TIMELY ORDER - The Contractor is responsible for assuring the timely order of all materials specified. If a specified material, or color of material cannot be delivered by the contract completion date, due to failure to order the material in a timely manner, the Contractor shall be responsible for supplying an equal or better material. The architect shall be the sole determinant of the approved substitute material. The Contractor shall also be charged an amount equal to 5% of the value of the specified material. This amount shall be credited to the owner through a change order to the contract. The word "material", as used in this section, includes all items specified in the specifications or shown on the drawings.

PART 3 - EXECUTION (Not Applicable).

END OF SECTION

(SUBSTITUTION REQUEST FORM ATTACHED)

PRODUCT AND MATERIAL SUBSTITUTION REQUEST FORM

(This substitution request form may be used for **Pre-Proposal** Substitution Requests or **Post -Proposal** Substitution Requests as specified in Divisions 1 Section -"Product Substitutions".)

Project: _____

From (company): _____ Date: _____

Address: _____ Telephone: _____

Bidding G.C. CM @ Risk Bidding subcontractor Bidding vendor or manufacturer

Substitution approval is an acceptance of only the manufacturer and product for general conformance with the design concept reflected in the Contract Documents. The A/E has made no attempt to verify specific performance data, or to check the details of the proposed substitution as to special features, capacities, physical dimensions or code and/or regulatory compliance, all of which remain the responsibility of the Contractor.

Specified Product: _____

Specification Title: _____ Section No. _____

Page No. _____ Paragraph No. _____ or previous Addendum No. _____

Proposed Substitution: _____

Manufacturer: _____ Phone: _____

Model/Series Number: _____ Trade Name _____

Area Distributor _____ Contact _____ Phone _____

History: New product 2-5 years old More than 10 years old

Differences between proposed substitution and specified product: _____

Similar Installations:
(attach any additional related project listings)

Project	Architect	Phone
Address		Year Installed
Owner Contact		Phone
Project	Architect	Phone
Address		Year Installed
Owner Contact		Phone

Proposed substitution affects other parts of work: No Yes

If Yes, explain _____

SECTION 01 33 00 - SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and other Division-1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section specifies administrative and procedural requirements for submittals required for performance of the Work, including:

- 1. Shop Drawings.
- 2. Product Data.
- 3. Samples.
- 4. Request for Interpretation

- B. SUBMITTAL PROCEDURES

- A. General: Electronic copies of CAD Drawings of the Contract Drawings will be provided by Architect for Contractor's use in preparing submittals only after receipt of acceptable waiver from Contractor.
- B. Coordination: Coordinate preparation and processing of submittals with performance of construction activities. Transmit each submittal sufficiently in advance of performance of related construction activities to avoid delay.
 - 1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals and related activities that require sequential activity.
 - 2. Coordinate transmittal of different types of submittals for related elements of the Work so processing will not be delayed by the need to review submittals concurrently for coordination.
 - a. The Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
 - 3. Processing: Allow sufficient review time so that installation will not be delayed as a result of the time required to process submittals, including time for re-submittals.
 - 4. Allow two weeks for initial review. Allow additional time if processing must be delayed to permit coordination with subsequent submittals. The Architect will promptly advise the Contractor when a submittal being processed must be delayed for coordination.
 - a. If an intermediate submittal is necessary, process the same as the initial submittal.
 - 5. Allow two weeks for reprocessing each submittal.
 - a. No extension of Contract Time will be authorized because of failure to transmit submittals to the Architect sufficiently in advance of the Work to permit processing.
- C. Submittal Preparation: Place a permanent label or title block on each submittal for identification. Indicate the name of the entity that prepared each submittal on the label or title block.
 - 1. Prior to forwarding to Architect, include Contractor's stamp on transmittal, each shop drawing sheet, and each bound set of data indicating Contractor's review and acceptance of submittal. Contractor's notations regarding exceptions, requirements, or deviations from

Project requirements are to be clearly indicated.

2. Do not provide multiple submittals under one transmittal. Provide separate transmittal for each item.
 3. Include the following information on the transmittal and submittal for processing and recording action taken.
 - a. Listing of the product(s) or system(s) b or
 - b. Number of the related specification section plus sequential number of the particular submittal (for instance: **05 21 00 -1** for initial submittal of Steel Joists). Verify numbering system with Architect.
 - c. Project name.
 - d. Date.
 - e. Name of Architect.
 - f. Name of Contractor.
 - g. Name of submitting subcontractor or supplier.
 4. Title block on shop drawings shall include the following:
 - a. Project name.
 - b. Date.
 - c. Name of Contractor.
 - d. Name and contact number of subcontractor or supplier as appropriate.
 - h. Name or initials of person producing the shop drawings.
 5. Submittals rejected or returned to the sender for additional information are not to be forwarded to the Architect. Forwarding a submittal to the Architect indicates Contractor's acceptance of the submittal as meeting Project requirements.
- D. Electronic (PDF) Submittals are to be provided in lieu of hard-copies. Architect will utilize file transfer protocol "Newforma" to receive, transfer, and manage submittals routed from Contractor to Architect and associated Consultants.
1. No purchase of special software is required by the Contractor to interface with "Newforma".
 2. Brief training regarding the use of this system will be provided upon request at the Architect's office for Contractor's personnel.
- E. Submittal Transmittal: Package each submittal appropriately for transmittal and handling. Transmit each submittal from Contractor to Architect using electronic transmittal form. Submittals received from sources other than the Contractor will be returned or discarded without action.
1. Record on the transmittal Record relevant information and requests for additional information.
 2. Clearly and conspicuously indicate on transmittal and shop drawings any deviations from Contract Document requirements, including a non-specified product or manufacturer, any variations, or limitations. Architect's review and acceptance of submittals is not binding where such deviations are not CLEARLY NOTED.
 3. Include Contractor's certification of review that submitted product(s) complies with Contract Document requirements except as CLEARLY NOTED.
- F. Owner will have access to viewing and commenting on submittals concurrently with A/E, and the Architect will incorporate any Owner comments prior to return of submittals.

1.3 SHOP DRAWINGS AND COORDINATION DRAWINGS

- A. Submit newly prepared information, drawn to accurate scale. Highlight, encircle, or otherwise indicate deviations from the Contract Documents. Do not reproduce Contract Documents or copy standard information as the basis of Shop Drawings. Standard information prepared without

specific reference to the Project is not considered Shop Drawings.

- B. Shop Drawings include fabrication and installation drawings, setting diagrams, schedules, patterns, templates and similar drawings. Include the following information:
 - 1. Dimensions.
 - 2. Identification of products and materials included.
 - 3. Compliance with specified standards.
 - 4. Notation of coordination requirements.
 - 5. Notation of dimensions established by field measurement.
- C. Provide digital copies of shop drawings unless A/E specifically requests hard copy drawings for a particular submittal.
 - 1. Sheet Size: Except for templates, patterns and similar full-size Drawings, submit Shop Drawings on sheets at least 8-1/2" x 11" but no larger than 36" x 48".
 - 2. Number of Copies: Submit three black-line prints for the Architect's or Architect's Consultant's review; one print will be returned with comments, or scanned and returned through Architect's digital file transfer protocol.
 - 3. Contractor shall make copies necessary for his own use, for field copies, and copies of reviewed submittals to be included in maintenance manuals
- D. Coordination drawings are a special type of Shop Drawing that show the relationship and integration of different construction elements that require careful coordination during fabrication or installation to fit in the space provided or function as intended.
 - 1. Preparation of coordination Drawings is specified in other sections of the Project specifications and may include components previously shown in detail on Shop Drawings or Product Data.
 - 2. Submit coordination Drawings for integration of different construction elements. Show sequences and relationships of separate components to avoid conflicts in use of space.

1.4 PRODUCT DATA

- A. Collect Product Data into a single submittal for each element of construction or system. Product Data includes printed information such as manufacturer's installation instructions, catalog cuts, standard color charts, roughing-in diagrams and templates, standard wiring diagrams and performance curves. Where Product Data must be specially prepared because standard printed data is not suitable for use, submit as "Shop Drawings."
- B. Mark each copy to show applicable choices and options. Where printed Product Data includes information on several products, some of which are not required, mark copies to indicate the applicable information. Include the following information:
 - 1. Manufacturer's printed recommendations.
 - 2. Compliance with recognized trade association standards.
 - 3. Compliance with recognized testing agency standards.
 - 4. Application of testing agency labels and seals.
 - 5. Notation of dimensions verified or requiring verification by field measurement.
 - 6. Notation of coordination requirements.
- C. Do not submit Product Data until compliance with requirements of the Contract Documents has been confirmed.
- D. Preliminary Submittal: Submit a preliminary single copy of Product Data where selection of options is required. Do not submit manufacturer's pamphlets or catalogs without the particular items for consideration CLEARLY indicated.

- E. Number of Copies: Provide digital copies of Product Data unless A/E specifically requests hard copies for a particular submittal:
 - 1. Submit three copies for the Architect's or Consultant's review; one copy will be returned with comments, or scanned and returned through Architect's digital file transfer protocol.
 - 2. Contractor shall make copies necessary for his own use, for field copies, and copies of reviewed Product Data to be included in maintenance manuals.
- F. Field Copies: Following receipt of reviewed and accepted submittal from Architect, print and file copy of reviewed submittal in the Project meeting room and field office. Field copy shall include all review markings.
 - 1. Do not proceed with installation until a copy of the final Product Data submittal is in the installer's possession.

1.5 SAMPLES

- A. Submit full-size, fully fabricated Samples cured and finished as specified and physically identical with the material or product proposed. Samples include partial sections of manufactured or fabricated components, cuts or containers of materials, color range sets, and swatches showing color, texture and pattern.
 - 1. Include transmittal with information as identified above in Submittal Procedures. Number product on the transmittal per the approved numbering system. In many cases the sample will be retained by the Architect with only the transmittal returned with comments.
 - 2. Mount, display, or package Samples in the manner specified to facilitate review of qualities indicated. Prepare Samples to match the Architect's Sample. Include the following:
 - a. Generic description of the Sample.
 - b. Sample source.
 - c. Product name or name of manufacturer.
 - d. Compliance with recognized standards.
 - 3. Submit Samples for review of kind, color, pattern, and texture, for a final check of these characteristics with other elements, and for a comparison of these characteristics between the final submittal and the actual component as delivered and installed.
 - 4. Where variation in color, pattern, texture or other characteristics are inherent in the material or product represented, submit multiple units (not less than 3), that show approximate limits of the variations.
 - 5. Refer to other Specification Sections for requirements for Samples that illustrate workmanship, fabrication techniques, details of assembly, connections, operation and similar construction characteristics.
 - 6. Refer to other Sections for Samples to be returned to the Contractor for incorporation in the Work. Such Samples must be undamaged at time of use. On the transmittal, indicate special requests regarding disposition of Sample submittals.
- B. Preliminary samples: Where Samples are for initial selection of color, pattern, texture or similar characteristics from a range of standard choices, submit a full set of choices for the material or product.
 - 1. Preliminary samples will be reviewed and may be returned with the Architect's mark indicating initial selection.
 - 2. Maintain approved samples, if returned, at the Project site, for quality comparisons throughout the course of construction.
 - 3. Unless noncompliance with Contract Document provisions is observed, the initial submittal

may also serve as the final sample.

- C. Distribution of Samples: Distribute additional sets of approved samples to subcontractors, manufacturers, fabricators, suppliers, installers, and others as required for performance of the Work.
 - 1. Field Samples or "mockups" specified in individual Sections are special types of Samples. Field Samples are full-size mockups erected, installed, or applied on site to illustrate finishes, coatings, or quality of installation, and to establish the standard by which the Work will be judged.
 - 2. Comply with submittal requirements to the fullest extent possible. Process transmittal forms to provide a record of activity
 - 3. As part of Closeout Documents, Contractor shall provide a binder with samples of all materials included in Completed Work. Samples shall be separated by Specification Section.

1.6 ARCHITECT'S REVIEW OF SUBMITTALS

- A. Except for submittals for record, information or similar purposes, where action and return is required or requested, the Architect will review each architectural submittal, mark to indicate action taken, and return promptly.
 - 1. Compliance with specified characteristics is the Contractor's responsibility.
- B. Action Stamp: The Architect will stamp each submittal with a uniform, self-explanatory action stamp. The stamp will be appropriately marked, as follows, to indicate the action taken:
- C. Final Release: Where submittals are marked "No Exceptions," that part of the Work covered by the submittal may proceed provided it complies with requirements of the Contract Documents; final acceptance will depend upon that compliance.
- D. Final-But-Restricted Release: When submittals are marked "Exceptions Noted" or "Make Corrections Noted", that part of the Work covered by the submittal may proceed provided it complies with notations or corrections on the submittal and requirements of the Contract Documents; final acceptance will depend on that compliance.
- E. Returned for Resubmittal: When submittal is marked "Revise and Resubmit", do not proceed with that part of the Work covered by the submittal, including purchasing, fabrication, delivery, or other activity. Revise or prepare a new submittal in accordance with the notations; resubmit without delay. Repeat if necessary to obtain a different action mark.
- F. Where subcontractor or supplier elects to make corrections based on notations by the Contractor, Architect, or consultants and the submittal has NOT been marked "Revise and Resubmit", do not copy the Architect with revised drawing unless specifically corrected.
- G. Do not permit submittals marked "Revise and Resubmit" to be used at the Project site, or elsewhere where Work is in progress

- 1.7 REQUESTS FOR INTERPRETATION - All contractor requests for interpretation pertaining to all aspects of the construction documents and this Project shall be submitted on the form attached, or on the Construction Specification Institute form, CSI Form 13.2A, "Request For Interpretation".

PART 2 - PRODUCTS (Not Applicable).

PART 3 - EXECUTION (Not Applicable).

END OF SECTION – Plus Attached Form

**REQUEST FOR INTERPRETATION
(R.F.I.)**

PROJECT:

CONTRACTOR:

ARCHITECT: STANTEC

THIS IS A FIELD AND/OR OFFICE REQUEST FOR INTERPRETATION TO SUPPLEMENT THE DESIGN DATA DEPICTED ON THE DRAWINGS OR IN THE SPECIFICATIONS. CHANGES TO THE CONTRACT DOCUMENTS, THE CONTRACT SUM, OR THE TIME FOR CONTRACT PERFORMANCE THAT MAY RESULT FROM THE REPLY TO THIS RFI SHALL BE PROCESSED IN ACCORDANCE WITH THE CHANGES CLAUSE OF THE CONTRACT, IF APPROPRIATE.

QUESTION:

Submitted by: _____

Drawing/Specification: _____

PROPOSED OR SUGGESTED SOLUTION:

Copies to:

Date: _____

R.F.I. No.: _____

SECTION 01 40 00 - QUALITY REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and other Division-1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section specifies administrative and procedural requirements for quality control services.
- B. Quality control services include inspections and tests and related actions including reports, performed by independent agencies, governing authorities, and the Contractor. They do not include Contract enforcement activities performed by the Architect.
- C. Inspection and testing services are required to verify compliance with requirements specified or indicated. These services do not relieve the Contractor of responsibility for compliance with Contract Document requirements.
- D. Requirements of this Section relate to customized fabrication and installation procedures, not production of standard.
 - 1. Specific quality control requirements for individual construction activities are specified in the Sections that specify those activities. Those requirements, including inspections and tests, cover production of standard products as well as customized fabrication and installation procedures.
 - 2. Inspections, test and related actions specified are not intended to limit the Contractor's quality control procedures that facilitate compliance with Contract Document requirements.
 - 3. Requirements for the Contractor to provide quality control services required by the Architect, Owner, or authorities having jurisdiction are not limited by provisions of this Section.

1.3 RESPONSIBILITIES

- A. Contractor Responsibilities: The Contractor shall provide inspections, tests and similar quality control services specified in individual Specification Sections and required by governing authorities, except where they are specifically indicated to be the Owner's responsibility, or are provided by another identified entity; these services include those specified to be performed by an independent agency and not by the Contractor. Costs for these services shall be included in the Contract Sum.
 - 1. The Contractor shall employ and pay an independent agency to perform quality control services specified in PART 1 - GENERAL, QUALITY ASSURANCE. The cost for these services is not borne by the Owner.
 - 2. The Owner will engage the services of an independent agency to perform some of the inspections and tests specified in PART 3 - EXECUTION, QUALITY CONTROL, QUALITY CONTROL TESTING DURING CONSTRUCTION or FIELD QUALITY CONTROL. Payment for these services will be made by the Owner.
 - a. Where the Owner has engaged a testing agency or other entity for testing and inspection of a part of the Work, and the Contractor is also required to engage an entity for the same or related element, the Contractor shall not employ the entity engaged by the Owner, unless otherwise agreed in writing with the Owner.
 - 3. Retesting: The Contractor is responsible for retesting where results of required inspections, tests or similar services prove unsatisfactory and do not indicate compliance with Contract

Document requirements, regardless of whether the original test was the Contractor's responsibility.

- a. Cost of retesting construction revised or replaced by the Contractor is the Contractor's responsibility, where required tests were performed on original construction.
4. Associated Services: The Contractor shall cooperate with agencies performing required inspections, tests and similar services and provide reasonable auxiliary services as requested. Notify the agency sufficiently in advance of operations to permit assignment of personnel. Auxiliary services required include but are not limited to:
- a. Providing access to the Work and furnishing incidental labor and facilities necessary to facilitate inspections and tests.
 - b. Taking adequate quantities of representative samples of materials that require testing or assisting the agency in taking samples.
 - c. Providing facilities for storage and curing of test samples, and delivery of samples to testing laboratories.
 - d. Providing the agency with a preliminary design mix proposed for use for materials mixes that require control by the testing agency.
 - e. Security and protection of samples and test equipment at the Project site.
- B. Owner Responsibilities: The Owner will provide inspections, tests and similar quality control services specified to be performed by independent agencies and not by the Contractor, except where they are specifically indicated as the Contractor's responsibility or are provided by another identified entity. Costs for these services are not included in the Contract Sum.
1. The Owner will employ and pay for the services of an independent agency, testing laboratory or other qualified firm to perform services which are the Owner's responsibility.
- C. Duties of the Testing Agency: The independent testing agency engaged to perform inspections, sampling and testing of materials and construction specified in individual Specification Sections shall cooperate with the Architect and Contractor in performance of its duties, and shall provide qualified personnel to perform required inspections and tests.
1. The agency shall notify the Architect and Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.
 2. The agency is not authorized to release, revoke, alter or enlarge requirements of the Contract Documents, or approve or accept any portion of the Work.
 3. The agency shall not perform any duties of the Contractor.
- D. Coordination: The Contractor and each agency engaged to perform inspections, tests and similar services shall coordinate the sequence of activities to accommodate required services with a minimum of delay. Additionally, Contractor and each agency shall coordinate activities to avoid the necessity of removing and replacing construction to accommodate inspections and tests.
1. The Contractor is responsible for scheduling times for inspections, tests, taking samples and similar activities.

1.4 SUBMITTALS

- A. The independent testing agency shall submit a certified written report of each inspection, test or similar service, to the Architect, in duplicate, unless the Contractor is responsible for the service. If the Contractor is responsible for the service, submit a certified written report of each inspection, test or similar service through the Contractor, in duplicate.
- B. Submit additional copies of each written report directly to the governing authority, when the authority so directs.

- C. Report Data: Written reports of each inspection, test or similar service shall include, but not be limited to:
1. Date of issue.
 2. Project title and number.
 3. Name, address and telephone number of testing agency.
 4. Dates and locations of samples and tests or inspections.
 5. Names of individuals making the inspection or test.
 6. Designation of the Work and test method.
 7. Identification of product and Specification Section.
 8. Complete inspection or test data.
 9. Test results and an interpretation of test results.
 10. Ambient conditions at the time of sample-taking and testing.
 11. Comments or professional opinion as to whether inspected or tested Work complies with Contract Document requirements.
 12. Name and signature of laboratory inspector.
 13. Recommendations on retesting.

1.5 QUALITY ASSURANCE

- A. Qualification for Service Agencies: Engage inspection and testing service agencies, including independent testing laboratories, which are prequalified as complying with "Recommended Requirements for Independent Laboratory Qualification" by the American Council of Independent Laboratories, and which specialize in the types of inspections and tests to be performed.
1. Each independent inspection and testing agency engaged on the Project shall be authorized by authorities having jurisdiction to operate in the State in which the Project is located.

PART 2 - PRODUCTS (Not Applicable).

PART 3 - EXECUTION

3.1 REPAIR AND PROTECTION

- A. General: Upon completion of inspection, testing, sample-taking and similar services, repair damaged construction and restore substrates and finishes to eliminate deficiencies, including deficiencies in visual qualities of exposed finishes. Comply with Contract Document requirements for "Cutting and Patching."
- B. Protect construction exposed by or for quality control service activities, and protect repaired construction.
- C. Repair and protection is the Contractor's responsibility, regardless of the assignment of responsibility for inspection, testing or similar services.

END OF SECTION

SECTION 01 60 00 - PRODUCT REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and other Division-1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section specifies administrative and procedural requirements governing the Contractor's selection of products for use in the Project.
- B. Standards: Refer to Section "Reference Standards and Definitions" for applicability of industry standards to products specified.
 - 1. Administrative procedures for handling requests for substitutions made after award of the Contract are included under Section "Product Substitutions."
 - 2. Since the Owner is a governmental entity or an organization which may be exempted from the sales and use taxes on certain tangible personal property, the Contractor shall be responsible for:
 - a. Determining whether such governmental entity or organization is exempt from such taxes under the Contract Documents.
 - b. Determining whether your purchase of any tangible personal property for use in the performance of this contract is exempt.
 - c. Obtaining any sales tax exemption certificate from the Owner.
 - d. Properly issuing any sales tax exemption certificate to a seller or supplier that the sale of any item of tangible personal property qualifies for an exemption.
 - e. Maintaining any records required by the laws of the State of Texas or by any valid rules and/or regulations of the Comptroller of Public Accounts of the State of Texas.
 - f. Payment of any legally assessed penalties or fines for improper use of any exemption Certificate.

1.3 DEFINITIONS

- A. Definitions used in this Article are not intended to change the meaning of other terms used in the Contract Documents, such as "specialties," "systems," "structure," "finishes," "accessories," and similar terms. Such terms are self-explanatory and have well recognized meanings in the construction industry.
 - 1. "Products" are items purchased for incorporation in the Work, whether purchased for the Project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent.
 - 2. "Named Products" are items identified by manufacturer's product name, including make or model designation, indicated in the manufacturer's published product literature, that is current as of the date of the Contract Documents.
 - 3. "Foreign Products", as distinguished from "domestic products," are items substantially manufactured (50 percent or more of value) outside of the United States and its possessions; or produced or supplied by entities substantially owned (more than 50 percent) by persons who are not citizens of nor living within the United States and its possessions.
 - 4. "Materials" are products that are substantially shaped, cut, worked, mixed, finished, refined or otherwise fabricated, processed, or installed to form a part of the Work.

5. "Equipment" is a product with operational parts, whether motorized or manually operated, that requires service connections such as wiring or piping.

1.4 SUBMITTALS

- A. Product List Schedule: Prepare a schedule showing products specified in a tabular form acceptable to the Architect. Include generic names of products required. Include the manufacturer's name and proprietary product names for each item listed.
 1. Coordinate the product list schedule with the Contractor's Construction Schedule and the Schedule of Submittals.
- B. Form: Prepare the product listing schedule with information on each item tabulated under the following column headings:
 1. Related Specification Section number.
 2. Generic name used in Contract Documents.
 3. Proprietary name, model number and similar designations.
 4. Manufacturer's name and address.
 5. Supplier's name and address.
 6. Installer's name and address.
 7. Projected delivery date, or time span of delivery period.
- C. Initial Submittal: Within 30 days after date of commencement of the Work, submit 3 copies of an initial product list schedule. Provide a written explanation for omissions of data, and for known variations from Contract requirements.
 1. At the Contractor's option, the initial submittal may be limited to product selections and designations that must be established early in the Contract period.
- D. Completed Schedule: Within 30 days after date of commencement of the Work, submit 3 copies of the completed product list schedule. Provide a written explanation for omissions of data, and for known variations from Contract requirements.
- E. Architect's Action: The Architect will respond in writing to the Contractor within 2 weeks of receipt of the completed product list schedule. No response within this time period constitutes no objection to listed manufacturers or products, but does not constitute a waiver of the requirement that products comply with Contract Documents. The Architect's response will include the following:
 1. A list of unacceptable product selections, containing a brief explanation of reasons for this action.

1.5 QUALITY ASSURANCE

- A. Source Limitations: To the fullest extent possible, provide products of the same kind, from a single source.
 1. When specified products are available only from sources that do not or cannot produce a quantity adequate to complete project requirements in a timely manner, consult with the Architect for a determination of the most important product qualities before proceeding. Qualities may include attributes relating to visual appearance, strength, durability, or compatibility. When a determination has been made, select products from sources that produce products that possess these qualities, to the fullest extent possible.
- B. Compatibility of Options: When the Contractor is given the option of selecting between two or more products for use on the Project, the product selected shall be compatible with products previously

selected, even if previously selected products were also options.

- C. Nameplates: Except for required labels and operating data, do not attach or imprint manufacturer's or producer's nameplates or trademarks on exposed surfaces of products which will be exposed to view in occupied spaces or on the exterior.
- D. Labels: Locate required product labels and stamps on a concealed surface or, where required for observation after installation, on an accessible surface that is not conspicuous.
- E. Equipment Nameplates: Provide a permanent nameplate on each item of service-connected or power-operated equipment. Locate on an easily accessible surface which is inconspicuous in occupied spaces. The nameplate shall contain the following information and other essential operating data:
 - 1. Name of product and manufacturer.
 - 2. Model and serial number.
 - 3. Capacity.
 - 4. Speed.
 - 5. Ratings.

1.6 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store and handle products in accordance with the manufacturer's recommendations, using means and methods that will prevent damage, deterioration and loss, including theft.
- B. Schedule delivery to minimize long-term storage at the site and to prevent overcrowding of construction spaces.
- C. Coordinate delivery with installation time to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration, theft and other losses.
- D. Deliver products to the site in the manufacturer's original sealed container or other packaging system, complete with labels and instructions for handling, storing, unpacking, protecting and installing.
- E. Inspect products upon delivery to ensure compliance with the Contract Documents, and to ensure that products are undamaged and properly protected.
- F. Store products at the site in a manner that will facilitate inspection and measurement of quantity or counting of units.
- G. Store heavy materials away from the Project structure in a manner that will not endanger the supporting construction.
- H. Store products subject to damage by the elements above ground, under cover in a weathertight enclosure, with ventilation adequate to prevent condensation. Maintain temperature and humidity within range required by manufacturer's instructions.

PART 2 - PRODUCTS

2.1 PRODUCT SELECTION

- A. General Product Requirements: Provide products that comply with the Contract Documents, that are undamaged and, unless otherwise indicated, unused at the time of installation.
 - 1. Provide products complete with all accessories, trim, finish, safety guards and other devices

and details needed for a complete installation and for the intended use and effect.

- B. Standard Products: Where available, provide standard products of types that have been produced and used successfully in similar situations on other projects.
- C. Product Selection Procedures: Product selection is governed by the Contract Documents and governing regulations, not by previous Project experience. Procedures governing product selection include the following:
 - 1. Where products or manufacturers are specified by name, accompanied by the term "or equal," or "or approved equal" comply with the Contract Document provisions concerning "substitutions" to obtain approval for use of an unnamed product.
- D. Proprietary Specification Requirements: Where only a single product or manufacturer is named, provide the product indicated. No substitutions will be permitted.
- E. Semi-proprietary Specification Requirements: Where two or more products or manufacturers are named, provide one of the products indicated. No substitutions will be permitted.
 - 1. Where products or manufacturers are specified by name, accompanied by the term "or equal," or "or approved equal" comply with the Contract Document provisions concerning "substitutions" to obtain approval for use of an unnamed product.
- F. Non-Proprietary Specifications: When the Specifications list products or manufacturers that are available and may be incorporated in the Work, but do not restrict the Contractor to use of these products only, the Contractor may propose any available product that complies with Contract requirements. Comply with Contract Document provisions concerning substitutions to obtain approval for use of an unnamed product.
- G. Descriptive Specification Requirements: Where Specifications describe a product or assembly, listing exact characteristics required, with or without use of a brand or trade name, provide a product or assembly that provides the characteristics and otherwise complies with Contract requirements.
- H. Performance Specification Requirements: Where Specifications require compliance with performance requirements, provide products that comply with these requirements, and are recommended by the manufacturer for the application indicated. General overall performance of a product is implied where the product is specified for a specific application.
 - 1. Manufacturer's recommendations may be contained in published product literature, or by the manufacturer's certification of performance.
- I. Compliance with Standards, Codes and Regulations: Where the Specifications only require compliance with an imposed code, standard or regulation, select a product that complies with the standards, codes or regulations specified.
- J. Visual Matching: Where Specifications require matching an established Sample, the Architect's decision will be final on whether a proposed product matches satisfactorily.
 - 1. Where no product available within the specified category matches satisfactorily and also complies with other specified requirements, comply with provisions of the Contract Documents concerning substitutions for selection of a matching product in another product category, or for noncompliance with specified requirements.
- K. Visual Selection: Where specified product requirements include the phrase "...as selected from manufacturer's standard colors, patterns, textures..." or a similar phrase, select a product and manufacturer that complies with other specified requirements. The Architect will select the color, pattern and texture from the product line selected.
- L. Allowances: Refer to individual Specification Sections and "Allowance" provisions in Division-1 for

allowances that control product selection, and for procedures required for processing such selections.

PART 3 - EXECUTION

3.1 INSTALLATION OF PRODUCTS

- A. Comply with manufacturer's instructions and recommendations for installation of products in the applications indicated. Anchor each product securely in place, accurately located and aligned with other Work.
 - 1. Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.

END OF SECTION

SECTION 01 70 00 - EXECUTION AND CLOSEOUT REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and other Division-1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section specifies administrative and procedural requirements for project closeout, including but not limited to:
 - 1. Inspection procedures.
 - 2. Submittal of warranties.
 - 3. Final cleaning.
- B. Closeout requirements for specific construction activities are included in the appropriate Sections in Divisions 2 through 26.

1.3 SUBSTANTIAL COMPLETION

- A. Preliminary Procedures: Before requesting inspection for certification of Substantial Completion, complete the following. List exceptions in the request.
 - 1. Submit specific warranties, workmanship bonds, maintenance agreements, final certifications, and similar documents.
 - 2. Make final change-over of permanent locks and transmit keys to the Owner. Advise the Owner's personnel of change-over in security provisions.
- B. Inspection Procedures: On receipt of a request for inspection, the Architect will either proceed with inspection or advise the Contractor of unfilled requirements. The Architect will prepare the Certificate(s) of Substantial Completion following inspection(s), or advise the Contractor of construction that must be completed or corrected before the certificate will be issued.

1.4 FINAL ACCEPTANCE

- A. Preliminary Procedures: Before requesting final inspection for certification of final acceptance and final payment, complete the following. List exceptions in the request.
 - 1. Submit the final payment request with releases and supporting documentation not previously submitted and accepted. Include certificates of insurance for products and completed operations where required.
 - 2. Submit an updated final statement, accounting for final additional changes to the Contract Sum.
 - 3. Complete final clean up requirements, including touch-up painting. Touch-up and otherwise repair and restore marred exposed finishes.

PART 2 - PRODUCTS

- 2.1 CLEANING AGENTS: Use cleaning materials and agents recommended by the manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property, or that might damage finished surfaces.

PART 3 - EXECUTION

3.1 CLOSEOUT PROCEDURES

- A. Operating and Maintenance Instructions: Arrange for each installer of equipment that requires regular maintenance to meet with the Owner's personnel to provide instruction in proper operation and maintenance. If installers are not experienced in procedures, provide instruction by manufacturer's representatives. Include a detailed review of the following items:
1. Maintenance manuals.
 2. Cleaning.
 3. Warranties and bonds.

3.2 FINAL CLEANING

- A. General: General cleaning during construction is required by the General Conditions and included in Section "Temporary Facilities".
- B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to the condition expected in a normal, commercial building cleaning and maintenance program. Comply with manufacturer's instructions.
1. Complete the following cleaning operations before requesting inspection for Certification of Substantial Completion.
 2. Remove labels that are not permanent labels.
 3. Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compound and other substances that are noticeable vision-obscuring materials. Replace chipped or broken glass and other damaged transparent materials.
 4. Clean exposed exterior and interior hard-surfaced finishes to a dust-free condition, free of stains, films and similar foreign substances. Restore reflective surfaces to their original reflective condition. Leave concrete floors broom clean. Vacuum carpeted surfaces.
- C. Removal of Protection: Remove temporary protection and facilities installed for protection of the Work during construction.
- D. Compliance: Comply with regulations of authorities having jurisdiction and safety standards for cleaning. Do not burn waste materials. Do not bury debris or excess materials on the Owner's property. Do not discharge volatile, harmful or dangerous materials into drainage systems. Remove waste materials from the site and dispose of in a lawful manner.

END OF SECTION

SECTION 01 78 00 - WARRANTIES AND BONDS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and other Division-1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section specifies general administrative and procedural requirements for warranties and bonds required by the Contract Documents, including manufacturers' standard warranties on products and special warranties.
 - 1. Refer to the General Conditions for terms of the Contractor's special warranty of workmanship and materials.
 - 2. General closeout requirements are included in Section "Execution and Closeout Procedures."
 - 3. Specific requirements for warranties for the Work and products and installations that are specified to be warranted, are included in the individual Sections of Divisions-2 through -16.
 - 4. Certifications and other commitments and agreements for continuing services to Owner are specified elsewhere in the Contract Documents.
- B. Separate Prime Contracts: Each prime Contractor is responsible for warranties related to its own Contract.

1.3 DEFINITIONS

- A. Standard Product Warranties are preprinted written warranties published by individual manufacturers for particular products and are specifically endorsed by the manufacturer to the Owner.
- B. Special Warranties are written warranties required by or incorporated in the Contract Documents, either to extend time limits provided by standard warranties or to provide greater rights for the Owner.

1.4 WARRANTY REQUIREMENTS

- A. The General Contractor will be the first point of contact for warranty work performed by subcontractors and manufacturers. Refer to Section 01 80 00 – Special Owner Requirements for procedures to be followed in reporting and correcting work under warranty.
- B. Related Damages and Losses: When correcting warranted Work that has failed, remove and replace other Work that has been damaged as a result of such failure or that must be removed and replaced to provide access for correction of warranted Work.
- C. Reinstatement of Warranty: When Work covered by a warranty has failed and been corrected by replacement or rebuilding, reinstate the warranty by written endorsement. The reinstated warranty shall be equal to the original warranty with an equitable adjustment for depreciation. The warranty period shall not be extended.
- D. Replacement Cost: Upon determination that Work covered by a warranty has failed, replace or rebuild the Work to an acceptable condition complying with requirements of Contract Documents. The Contractor is responsible for the cost of replacing or rebuilding defective Work, including the cost of equipment needed to perform the Work, regardless of whether the Owner has benefited from use of the Work through a portion of its anticipated useful service life.

- E. Owner's Recourse: Written warranties made to the Owner are in addition to implied warranties, and shall not limit the duties, obligations, rights and remedies otherwise available under the law, nor shall warranty periods be interpreted as limitations on time in which the Owner can enforce such other duties, obligations, rights, or remedies.
 - 1. Rejection of Warranties: The Owner reserves the right to reject warranties and to limit selections to products with warranties not in conflict with requirements of the Contract Documents.
 - a. The Owner reserves the right to refuse to accept Work for the Project where a special warranty, certification, or similar commitment is required on such Work or part of the Work, until evidence is presented that entities required to countersign such commitments are willing to do so.

1.5 SUBMITTALS

- A. Submit written warranties to the Architect prior to the date of activation. If the Architect's Certificate of Substantial Completion designates a commencement date for warranties other than the date of Substantial Completion for the Work, or a designated portion of the Work, submit written warranties upon request of the Architect.
 - 1. When a designated portion of the Work is completed and occupied or used by the Owner, by separate agreement with the Contractor during the construction period, submit properly executed warranties to the Architect within fifteen days of completion of that designated portion of the Work.
 - 2. When a special warranty is required, prepare a written document that contains appropriate terms and identification, ready for execution by the required parties. Submit a draft to the Owner through the Architect for approval prior to final execution.
 - 3. Forms for special warranties are included at the end of particular Sections. Prepare a written document utilizing the appropriate form, ready for execution by the warrantor. Submit a draft to the Owner through the Architect for approval prior to final execution.
 - a. Refer to individual Sections of Divisions-2 through -16 for specific content requirements, and particular requirements for submittal of special warranties.
- B. Form of Submittal: At Final Completion compile two copies of each required warranty and bond, properly executed. Organize the warranty documents into an orderly sequence based on the table of contents of the Project Manual.
 - 1. Bind warranties and bonds in heavy-duty, commercial quality, durable 3-ring vinyl covered loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8-1/2" by 11" paper.
 - a. Provide heavy paper dividers with celluloid covered tabs for each separate warranty. Mark the tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product, and the name, address and telephone number of the installer.
 - b. Identify each binder on the front and the spine with the typed or printed title "WARRANTIES AND BONDS, the Project title or name, and the name of the Contractor.
 - 2. When operating and maintenance manuals are required for warranted construction, provide additional copies of each required warranty, as necessary, for inclusion in each required manual.

PART 2 - PRODUCTS (Not applicable).

PART 3 - EXECUTION (Not applicable).

END OF SECTION

SECTION 08 11 13 - STANDARD STEEL DOORS AND FRAMES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes:
 - 1. Steel door and window frames.
 - 2. Steel doors and frames.
- B. Related Sections:
 - 1. Section 08 80 00 – Glazing: For glazing panels set in steel stops including glass lights set in steel door faces.
 - 2. Section 09 90 00 - Painting and Coating: Field painting of shop-primed steel doors and frames.

1.2 REFERENCES

- A. American National Standards Institute:
 - 1. ANSI A250.8 - Recommended Specifications for Standard Steel Doors and Frames.
- B. ASTM International:
 - 1. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
 - 2. ASTM E413 - Standard Classification for Rating Sound Insulation.
- C. National Fire Protection Association:
 - 1. NFPA 80 - Standard for Fire Doors, Fire Windows.
 - 2. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies.
 - 3. NFPA 255 - Standard Method of Test of Surface Burning Characteristics of Building Materials.
- D. Steel Door Institute:
 - 1. SDI 108 - Recommended Selection and Usage Guide for Standard Steel Doors.
- E. Underwriters Laboratories Inc.: UL 10B - Fire Tests of Door Assemblies.

1.3 SUBMITTALS

- A. Section 01 33 00 - Submittal Procedures: Requirements for submittals.
- B. Shop Drawings: Indicate door elevations, frame elevations, internal reinforcement, anchor types and spacing, door closure method, and cut-outs for hardware, glazing, and louvers.
- C. Product Data: Submit door configurations, frame configurations, location of cut-outs for hardware reinforcement.
- D. Manufacturer's Installation Instructions: Submit special installation instructions.
- E. Manufacturer's Certificate: Certify Products meet or exceed specified requirements.
- F. Oversize Construction Certificates: For door assemblies required to be fire rated and exceeding size limitations of labeled assemblies.

1.4 QUALITY ASSURANCE

- A. Perform Work in accordance with ANSI A250.8.
- B. Fire Rated Door and Frame Construction: Conform to NFPA 252.
- C. Installed Fire Rated Door Assembly: Conform to NFPA 80 for fire rated class as indicated on Drawings.

- D. Attach label from agency approved by authority having jurisdiction to identify each fire rated door and frame.
- E. Surface Burning Characteristics:
 - 1. Non-rated doors and frames.

1.5 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing Products specified in this section with minimum three years' experience.
- B. Installer: Company specializing in performing work of this section with minimum years' experience and approved by manufacturer.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Section 01 60 00 - Product Requirements: Requirements for transporting, handling, storing, and protecting products.
- B. Accept doors and frames on site in manufacturer's packaging. Inspect for damage.
- C. Break seal on site to permit ventilation.

1.7 COORDINATION

- A. Section 01 30 00 - Administrative Requirements: Requirements for coordination.
- B. Coordinate Work with door opening construction, door frame, and door hardware installation.
- C. Coordinate installation to accommodate door hardware electric wire connections.

PART 2 - PRODUCTS

2.1 STANDARD STEEL DOORS AND FRAMES

- A. Manufacturers:
 - 1. Amweld Building Products www.amweld.com
 - 2. Ceco Door www.cecodoor.com
 - 3. Curries www.curries.com
 - 4. Deansteel Manufacturing, Inc. www.deansteel.com
 - 5. Kewanee Corporation www.kewaneecorp.com
 - 6. Mesker Door, Inc. www.meskerdoor.com
 - 7. Pearland Industries
 - 8. Pioneer Industries Inc. www.pioneerindustries.com
 - 9. Republic Doors and Frames www.republicdoor.com
 - 10. Substitutions: Section 01 60 00 - Product Requirements.
- B. Product Description - Doors: To suit ANSI A250.8 and the following:
 - 1. Exterior Doors (Insulated): Level 3 - Extra heavy Duty, Model 2, seamless design, 16 gage face sheets, 1-3/4 inches thick, galvanized A60.
 - 2. Interior Doors (Non-Rated): Level 3 - Extra heavy Duty, Model 2, seamless design, 18 gage face sheets, 1-3/4 inches thick, galvanized at wet areas.
 - 3. Interior Doors (Fire Rated): Level 3 - Extra heavy Duty, Model 2, seamless design, 16 gage face sheets, 1-3/4 inches thick, galvanized at wet areas.
- C. Product Description - Frames: Fully welded steel frames, to suit ANSI A250.8 and the following:
 - 1. Exterior: Level 3 - Extra heavy Duty, 16 gage material, galvanized A60.
 - a. Furnish 14 gage thick material for frames over 48 inches wide.
 - 2. Interior: Level 3 - Extra heavy Duty, 16 gage material, galvanized at wet areas.
 - a. Furnish 14 gage thick material for frames over 48 inches wide.

- D. Ratings: As indicated in the drawings.

2.2 DOOR COMPONENTS

- A. Face: Steel sheet in accordance with ANSI A250.
- B. End Closure: Channel, 0.04 inches thick, flush.
- C. Core: Manufacturer's standard core consisting of one of the following:
 - 1. Resin-impregnated cardboard honeycomb.
 - 2. Polyurethane.
 - 3. Polystyrene foam.
 - 4. Mineral fiberboard.
- D. Thermal-Rated (Insulating) Assemblies: At exterior locations and elsewhere as shown or scheduled, provide doors and frames fabricated as thermal-insulating assemblies and tested according to ASTM C236 or ASTM C976 on fully operable door assemblies.
 - 1. Unless otherwise indicated, provide thermal-rated assemblies with U-value of 0.41 Btu/sq. ft. x h x deg F or better.

2.3 FRAME COMPONENTS

- A. Frames: Steel sheet in accordance with ANSI A250.

2.4 ACCESSORIES

- A. Removable Stops: Rolled steel, channel shape, butted corners; prepared for countersink style screws.
- B. Vision Lite Systems: Manufacturer's standard kits consisting of glass lite moldings to accommodate glass thickness and size of vision lite indicated.
- C. Primer: ANSI A250.10, manufacturer's standard rust inhibitive type.
- D. Silencers: Specified in Section 08 71 00; resilient rubber fitted into drilled hole.

2.5 FABRICATION

- A. Doors:
 - 1. Fabricate doors with hardware reinforcement welded in place.
 - 2. Glazing Stops: Provide non-removable stops on outside of exterior doors and on secure side of interior doors for glass.
- B. Frames:
 - 1. Fabricate frames as welded unit.
 - 2. Mullions for Double Doors: Removable, specified in Section 08 71 00.
 - 3. Transom Bars for Glazed Lights: Fixed type, of same profiles as jamb and head.
 - 4. Fabricate frames with hardware reinforcement plates welded in place. Provide mortar guard boxes.
 - 5. For frames installed in masonry walls, and which will receive stop-applied seals or weatherstripping, fill the stops with strips of rigid insulation to keep the grout out of the stops and to facilitate installation of the seals and weatherproofing.
 - 6. Prepare frames for silencers. Provide three single silencers for single doors on strike side. Provide two single silencers on frame head at double doors.
 - 7. Glazing Stops: Provide non-removable stops on the outside and removable, screw-applied stops on the room side of doors and frames for glass.

2.6 SHOP FINISHING

- A. Primer: Baked-on.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Section 01 30 00 - Administrative Requirements: Verification of existing conditions before starting work.
- B. Verify opening sizes and tolerances are acceptable.

3.2 FRAME INSTALLATION

- A. Install frames in accordance with ANSI A250.8.
- B. Coordinate with masonry and gypsum board wall construction for anchor placement.
- C. Provide at least three wall anchors per jamb. For openings 90 inches or more in height, install four wall anchors per jamb.
- D. Coordinate installation of glass and glazing specified in Section 08 80 00.
- E. Coordinate installation of frames with doors and with hardware specified in Section 08 71 00.
- F. Coordinate installation of frames with installation of doors specified in Section 08 14 16.

3.3 DOOR INSTALLATION

- A. Install doors in accordance with ANSI A250.8.
- B. Install door louvers and glazing frames plumb and level.
- C. Coordinate installation of glass and glazing specified in Section 08 80 00.
- D. Coordinate installation with frames and with hardware specified in Section 08 71 00.
- E. Touch-up damaged shop finishes.

3.4 ERECTION TOLERANCES

- A. Section 01 40 00 - Quality Requirements: Tolerances.
- B. Maximum Diagonal Distortion: 1/16 inch measured with straight edge, corner to corner.
- C. Clearances for Non-Fire-Rated Doors: Not more than 1/8 inch at jambs and heads, except not more than 1/4 inch between pairs of doors. Not more than 3/4 inch at bottom.
- D. Clearances for Fire-Rated Doors: In accordance with NFPA 80.

3.5 ADJUSTING

- A. Section 01 70 00 - Execution and Closeout Requirements: Requirements for adjusting.
Adjust door for smooth and balanced door movement.

END OF SECTION

SECTION 08 80 00 – GLAZING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes glazing for the following products and applications, including those specified in other Sections where glazing requirements are specified by reference to this Section:
 - 1. Doors.
 - 2. Glazed entrances.

1.3 DEFINITIONS

- A. Manufacturers of Glass Products: Firms that produce primary glass, fabricated glass, or both, as defined in referenced glazing publications.
- B. Glass Thicknesses: Indicated by thickness designations in millimeters according to ASTM C 1036.
- C. Interspace: Space between lites of an insulating-glass unit that contains dehydrated air or a specified gas.
- D. Deterioration of Coated Glass: Defects developed from normal use, which are attributed to the manufacturing process and not to causes other than glass breakage and practices for maintaining and cleaning coated glass contrary to manufacturer's written instructions. Defects include peeling, cracking, and other indications of deterioration in metallic coating.
- E. Deterioration of Insulating Glass: Failure of hermetic seal under normal use, which is attributed to the manufacturing process and not to causes other than glass breakage and practices for maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.

1.4 PERFORMANCE REQUIREMENTS

- A. General: Provide glazing systems capable of withstanding normal thermal movement and wind and impact loads (where applicable) without failure, including loss or glass breakage attributable to the following: defective manufacture, fabrication, and installation; failure of sealants or gaskets to remain watertight and airtight; deterioration of glazing materials; or other defects in construction.
- B. Glass Design: Glass thickness designations indicated are minimums and are for detailing only. Confirm glass thicknesses by analyzing Project loads and in-service conditions. Provide glass lites in the thickness designations indicated for various size openings, but not less than thicknesses and in strengths (annealed or heat treated) required to meet or exceed the following criteria:
 - 1. Glass Thicknesses: Select minimum glass thicknesses to comply with ASTM E 1300, according to the following requirements:

- a. Specified Design Wind Loads: As indicated, but not less than wind loads applicable to Project as required by ASCE 7 "Minimum Design Loads for Buildings and Other Structures": Section 6.0 "Wind Loads."
 - b. Probability of Breakage for Vertical Glazing: 8 lites per 1,000 for lites set vertically or not more than 15 degrees off vertical and under wind action.
 - 1) Load Duration: 3 seconds.
 - c. Maximum Lateral Deflection: For the following types of glass supported on all 4 edges, provide thickness required that limits center deflection at design wind pressure to 1/50 times the short side length or 1 inch (25 mm), whichever is less.
 - 1) For monolithic-glass lites heat treated to resist wind loads.
 - 2) For insulating glass.
 - d. Minimum Glass Thickness for Exterior Lites: Not less than 6.0 mm.
 - e. Thickness of Tinted and Heat-Absorbing Glass: Provide the same thickness for each tint color indicated throughout Project.
- C. Windborne-Debris-Impact Resistance: Provide exterior glazing that passes basic protection testing requirements in ASTM E 1996 for the project Wind Zone when tested according to ASTM E 1886. Test specimens shall be no smaller in width and length than glazing indicated for use on the Project and shall be installed in same manner as glazing indicated for use on the Project.
1. Large-Missile Test: For glazing located within 30 feet (9.1 m) of grade.
 2. Small-Missile Test: For glazing located more than 30 feet (9.1 m) above grade.
- D. Thermal Movements: Provide glazing that allows for thermal movements resulting from the following maximum change (range) in ambient and surface temperatures acting on glass framing members and glazing components. Base engineering calculation on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.
1. Temperature Change (Range): 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.
- E. Thermal and Optical Performance Properties: Provide glass with performance properties specified based on manufacturer's published test data, as determined according to procedures indicated below:
1. For monolithic-glass lites, properties are based on units with lites 6.0 mm thick.
 2. For insulating-glass units, properties are based on units with lites 6.0 mm thick and a nominal 1/2 inch (12.7 mm) wide interspace.
 3. Center-of-Glass Values: Based on using LBL-44789 WINDOW 5.0 computer program for the following methodologies:
 - a. U-Factors: NFRC 100 expressed as Btu/ sq. ft. x h x deg F (W/sq. m x K).
 - b. Solar Heat Gain Coefficient: NFRC 200.
 - c. Solar Optical Properties: NFRC 300.

1.5 SUBMITTALS

- A. General: Submit each item in this Article according to the Conditions of the Contract and Division 1 Specification Sections.
- B. Product Data: For each glass product and glazing material indicated.
- C. Shop Drawings: Showing design and pattern location for each glass unit. Include the following:
 1. Glazing method.

2. Size and location of penetrations.
- D. Samples: For the following products, in the form of 12 inch (300 mm) square Samples for glass and of 12 inch (300 mm) long Samples for sealants. Install sealant Samples between two strips of material representative in color of the adjoining framing system.
 1. Each color of tinted float glass.
 2. Ceramic-coated spandrel glass.
 3. Each color, pattern, and texture of decorative glass.
 4. Fire-Resistant glass.
 5. Insulating glass for each designation indicated.
 6. For each color (except black) of exposed glazing sealant indicated.
- E. Glazing Schedule: Use same designations indicated on Drawings for glazed openings in preparing a schedule listing glass types and thicknesses for each size opening and location.
- F. Product Certificates: Signed by manufacturers of glass and glazing products certifying that products furnished comply with requirements.
 1. For solar-control low-e-coated glass, provide documentation demonstrating that manufacturer of coated glass is certified by coating manufacturer.
- G. Qualification Data: For installers.
- H. Preconstruction Adhesion and Compatibility Test Report: From glazing sealant manufacturer indicating glazing sealants were tested for adhesion to glass and glazing channel substrates and for compatibility with glass and other glazing materials.
- I. Warranties: Special warranties specified in this Section.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer who has completed glazing similar in material, design, and extent to that indicated for this Project; whose work has resulted in glass installations with a record of successful in-service performance; and who employs glass installers for this Project who are certified under the National Glass Association Glazier Certification Program as Level 2 (Senior Glaziers) or Level 3 (Master Glaziers).
- B. Source Limitations for Glazing Accessories: Obtain glazing accessories through one source from a single manufacturer for each product and installation method indicated.
- C. Glass Product Testing: Obtain glass test results for product test reports in "Submittals" Article from a qualified testing agency based on testing glass products.
 1. Glass Testing Agency Qualifications: An independent testing agency with the experience and capability to conduct the testing indicated, as documented according to ASTM E 548.
- D. Elastomeric Glazing Sealant Product Testing: Obtain sealant test results for product test reports in "Submittals" Article from a qualified testing agency based on testing current sealant formulations within a 36-month period.
 1. Sealant Testing Agency Qualifications: An independent testing agency qualified according to ASTM C 1021 to conduct the testing indicated, as documented according to ASTM E 548.
 2. Test elastomeric glazing sealants for compliance with requirements specified by reference to ASTM C 920, and where applicable, to other standard test methods.
- E. Preconstruction Adhesion and Compatibility Testing: Submit to elastomeric glazing sealant manufacturers, for testing indicated below, samples of each glazing material type, tape sealant,

gasket, glazing accessory, and glass-framing member that will contact or affect elastomeric glazing sealants:

1. Use ASTM C 1087 to determine whether priming and other specific joint preparation techniques are required to obtain rapid, optimum adhesion of glazing sealants to glass, tape sealants, gaskets, and glazing channel substrates.
 2. Submit not fewer than eight pieces of each type of material, including joint substrates, shims, joint-sealant backings, secondary seals, and miscellaneous materials.
 3. Schedule sufficient time for testing and analyzing results to prevent delaying the Work.
 4. For materials failing tests, obtain sealant manufacturer's written instructions for corrective measures, including the use of specially formulated primers.
 5. Testing will not be required if elastomeric glazing sealant manufacturers submit data based on previous testing of current sealant products for adhesion to, and compatibility with, glazing materials matching those submitted.
- F. Safety Glazing Products: Comply with testing requirements in 16 CFR 1201 and, for wired-glass, ANSI Z97.1.
1. Subject to compliance with requirements, obtain safety glazing products permanently marked with certification label of the Safety Glazing Certification Council or another certification agency or manufacturer acceptable to authorities having jurisdiction and manufacturer's name.
 - a. Permanent mark shall be acid etched, sand blasted, ceramic fired, laser etched, embossed, or of a type that once applied, cannot be removed without being destroyed.
 - b. Multilite glazed assemblies having individual lights not exceeding 1 sq. ft. (0.09 sq. m) in exposed areas shall have at least one light in the assembly marked as indicated. Other lites in the assembly shall be marked "CPSC 16 CFR 1201".
 - c. Fully tempered safety spandrel glass is permitted to be identified by the manufacturer with a removable paper designation.
 2. Lites more than 9 sq. ft. (0.84 sq. m) in area and lites of any area in certain hazardous locations such as sliding glass doors, doors and enclosures for bathtubs, showers, hot tubs, whirlpools, saunas, and steam rooms are required to be Category II materials.
 3. Where glazing units, including Kind FT glass and laminated glass, are specified in Part 2 articles for glazing lites more than 9 sq. ft. (0.84 sq. m) in exposed surface area of one side, provide glazing products that comply with Category II materials, for lites 9 sq. ft. (0.84 sq. m) or less in exposed surface area of one side, provide glazing products that comply with Category I or II materials, except for hazardous locations where Category II materials are required by 16 CFR 1201 and regulations of authorities having jurisdiction.
- G. Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below, unless more stringent requirements are indicated. Refer to these publications for glazing terms not otherwise defined in this Section or in referenced standards.
1. GANA Publication: "Glazing Manual".
 2. GANA Publication: "Sealant Manual".
 3. IGMA Publication for Insulating Glass: SIGMA TM-3000, "Glazing Guidelines for Sealed Insulating Glass Units".

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Protect glazing materials according to manufacturer's written instructions and as needed to prevent damage to glass and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.

- B. Retain packaging and sequencing numbers for glass units.
- C. For insulating-glass units that will be exposed to substantial altitude changes, comply with insulating-glass manufacturer's written recommendations for venting and sealing to avoid hermetic seal ruptures.

1.8 PROJECT CONDITIONS

- A. Environmental Limitations: Do not proceed with glazing when ambient and substrate temperature conditions are outside limits permitted by glazing material manufacturers and when glazing channel substrates are wet from rain, frost, condensation, or other causes.
 - 1. Do not install liquid glazing sealants when ambient and substrate temperature conditions are outside limits permitted by glazing sealant manufacturer or below 40 deg F (4.4 deg C).
- B. Field Measurements for Decorative Glass: Check actual decorative glass openings by accurate field measurements before fabrication and show recorded measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
 - 1. Where field measurements cannot be made without delaying the Work, guarantee opening dimensions and proceed with fabricating decorative glass without field measurements. Coordinate construction to ensure that actual opening dimensions correspond to guaranteed dimensions.
- C. Space Enclosure and Environmental Limitations for Decorative Glass: Do not install decorative glass until space is enclosed and weatherproof, wet-work in space is completed and nominally dry, work above ceilings is complete, and ambient temperature and humidity conditions are and will be continuously maintained at values near those indicated for final occupancy.

1.9 WARRANTY

- A. General Warranty: Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Manufacturer's Special Warranty for Coated-Glass Products: Manufacturer's standard form, made out to Owner and signed by coated-glass manufacturer agreeing to replace coated-glass units that deteriorate as defined in "Definitions" Article, f.o.b. the nearest shipping point to Project site, within specified warranty period indicated below.
 - 1. Warranty Period: 10 years from date of Substantial Completion.
- C. Manufacturer's Special Warranty on Decorative Glass: Written warranty, made out to Owner and signed by decorative glass manufacturer and installer agreeing to replace decorative glass units that do not meet requirements or that deteriorate as defined in "Definitions" Article, f.o.b. the nearest shipping point to Project site, within specified warranty period indicated below.
 - 1. Warranty Period: Five years from date of Substantial Completion.
- D. Manufacturer's Special Warranty on Fire-Resistant Glass: Manufacturer's standard form, made out to Owner and signed by fire-resistant glass manufacturer agreeing to replace fire-resistant glass units that deteriorate as defined in "Definitions" Article, f.o.b. the nearest shipping point to Project site, within specified warranty period indicated below.
 - 1. Warranty Period: Five years from date of Substantial Completion.
- E. Manufacturer's Special Warranty on Insulating Glass: Manufacturer's standard form, made out to Owner and signed by insulating-glass manufacturer agreeing to replace insulating-glass units

that deteriorate as defined in "Definitions" Article, f.o.b. the nearest shipping point to Project site, within specified warranty period indicated below.

1. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 FABRICATION OF GLAZING UNITS

- A. Fabricate glazing units in sizes required to glaze openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with written instructions of product manufacturer and referenced glazing publications, to comply with system performance requirements.
- B. Clean-cut or flat-grind vertical edges of butt-glazed monolithic lites in a manner that produces square edges with slight kerfs at junctions with outdoor and indoor faces.
- C. Grind smooth and polish exposed glass edges and corners.

2.2 GLAZING UNITS

- A. Annealed Float Glass: ASTM C 1036, Type I (transparent flat glass), Quality-Q3; of class indicated.
- B. Heat-Treated Float Glass: ASTM C 1048; Type I (transparent flat glass); Quality-Q3; of class, kind, and condition indicated.
 1. Fabrication Process: By horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as installed, unless otherwise indicated.
 2. Provide Kind HS (heat-strengthened) float glass in place of annealed float glass where needed to resist thermal stresses induced by differential shading of individual glass lites and to comply with glass design requirements specified in Part 1 "Performance Requirements" Article.
 3. For uncoated glass, comply with requirements for Condition A.
 4. For coated vision glass, comply with requirements for Condition C (other uncoated glass).
 5. Provide Kind FT (fully tempered) float glass in place of annealed or Kind HS (heat-strengthened) float glass where safety glass is indicated or, if not indicated, where required by authorities having jurisdiction.
- C. Monolithic Float-Glass:
 1. Uncoated Clear Float Glass: Class 1 (clear) annealed or Kind HS (heat-strengthened) float glass where heat strengthening is required to resist thermal stresses induced by differential shading of individual glass lites and to comply with system performance requirements. Provide Kind FT (fully tempered) float glass where indicated or, if not indicated, where required by authorities having jurisdiction.
 2. Manufacturers: Subject to compliance with requirements, manufacturers offering monolithic float-glass units which may be incorporated in the Work include, but are not limited to, the following:
 - a. Guardian Industries Corp. 248-340-1800 www.guardian.com
 - b. Pilkington North America Inc. 800-221-0444 www.pilkington.com
 - c. PPG Industries, Inc. 800-377-5267 www.ppg.com
- D. Insulating-Glass, General: Factory-assembled units consisting of sealed lites of glass separated by a dehydrated interspace, and complying with ASTM E 774 for Class CBA units and with requirements as follows:

1. Provide Kind HS (heat-strengthened) float glass in place of annealed glass where needed to resist thermal stresses induced by differential shading of individual glass lites and to comply with glass design requirements specified in Part 1 "Performance Requirements" Article.
2. Provide Kind FT (fully tempered) glass lites where safety glass is indicated.
3. Overall Unit Thickness and Thickness of Each Lite: Dimensions indicated for insulating-glass units are nominal and the overall thicknesses of units are measured perpendicularly from outer surfaces of glass lites at unit's edge.
4. Sealing System: Dual seal, with primary and secondary sealants as follows:
 - a. Manufacturer's standard sealants.
5. Spacer Specifications: Manufacturer's standard spacer material and construction.
6. Solar-Control (Tinted) Low-E Insulating-Glass:
 - a. Basis-of-Design: SOLARBAN 70XL Atlantica (2) + Airspace + Laminated (Clear + Clear), PPG Industries, Inc. 800-377-5267 www.ppg.com
 - b. Thickness of Outdoor Lite: 1/4 inch (6.0 mm).
 - c. Thickness of Indoor Lite: Laminated 1/4 inch (6.0 mm) + 1/4 inch (6.0 mm).
 - d. Overall Unit Thickness: 1-5/16 inch (33.3 mm).
 - e. Interspace Content: Air or inert gas as standard with manufacturer.
 - f. Outdoor Lite: Class 2 (tinted) Kind HS (heat-strengthened) float glass. Provide Kind FT (fully tempered) float glass where indicated or, if not indicated, where required by authorities having jurisdiction.
 - 1) Tint Color: Blue-green.
 - 2) Low-E Coating: Sputtered on second surface.
 - g. Indoor Lite: Laminate Glass free of foreign substances and air or glass pockets, complying with ASTM C 1172, Kind LHS, consisting of two lites of heat-strengthened float glass. Provide Kind LFT (fully tempered) float glass where indicated or, if not indicated, where required by authorities having jurisdiction.
 - 1) Outer Lite: Class 1 clear float glass.
 - 2) Inner Lite: Class 1 clear float glass.
 - 3) Interlayer: Clear polyvinyl butyral of thickness indicated with a proven record of no tendency to bubble, discolor, or lose physical and mechanical properties after laminating glass lites and installation, 0.090 inch thick, but not less than that required to comply as a Type II Safety glass.
 - 4) Laminate lites in autoclave with heat plus pressure.
 - h. Visible Light Transmittance: 51 percent minimum.
 - i. Winter Nighttime U-Factor: 0.29 maximum.
 - j. Summer Daytime U-Factor: 0.27 maximum.
 - k. Solar Heat Gain Coefficient: 0.30 maximum.
7. Colored Low-E Insulating Glass: Insulating glass fabricated as follows:
 - a. Basis-of Design: SOLARBAN 70XL Clear (2) + Airspace + Laminated (Clear + Clear), PPG Industries, Inc. 800-377-5267 www.ppg.com
 - b. Thickness of Outdoor Lite: 1/4 inch (6.0 mm).
 - c. Thickness of Indoor Lite: Laminated 1/4 inch (6.0 mm) + 1/4 inch (6.0 mm).
 - d. Overall Unit Thickness: 1-5/16 inch (33.3 mm).
 - e. Interspace Content: Air or inert gas as standard with manufacturer.
 - f. Outdoor Lite: Uncoated, Kind HS (heat-strengthened) clear float glass. Provide Kind FT (fully tempered) float glass where indicated or, if not indicated, where required by authorities having jurisdiction.

- 1) Tint Color: None (Clear).
 - 2) Low-E Coating: Sputtered on second surface.
- g. Indoor Lite: Laminate Glass free of foreign substances and air or glass pockets, complying with ASTM C 1172, Kind LHS, consisting of two lites of heat-strengthened float glass. Provide Kind LFT (fully tempered) float glass where indicated or, if not indicated, where required by authorities having jurisdiction.
- 1) Outer Lite: Class 1 clear float glass.
 - 2) Inner Lite: Class 1 clear float glass.
 - 3) Interlayer: Colored polyvinyl butyral of thickness indicated with a proven record of no tendency to bubble, discolor, or lose physical and mechanical properties after laminating glass lites and installation, 0.090 inch thick, but not less than that required to comply as a Type II Safety glass.
- h. Color: Up to five different colors, as selected by Architect from manufacturer's standard full range of colors.
- 1) Laminate lites in autoclave with heat plus pressure.

2.3 GLAZING GASKETS

- A. Dense Compression Gaskets: Molded or extruded gaskets of material indicated below, complying with standards referenced with name of elastomer indicated below, and of profile and hardness required to maintain watertight seal:
1. EPDM, ASTM C 864.
 2. Silicone, ASTM C 1115.
 3. Thermoplastic polyolefin rubber, ASTM C 1115.
 4. Any material indicated above.
- B. Soft Compression Gaskets: Extruded or molded, closed-cell, integral-skinned gaskets of material indicated below; complying with ASTM C 509, Type II, black; and of profile and hardness required to maintain watertight seal:
1. EPDM.
 2. Silicone.
 3. Thermoplastic polyolefin rubber.
 4. Any material indicated above.

2.4 GLAZING SEALANTS

- A. General: Provide products of type indicated, complying with the following requirements:
1. Compatibility: Select glazing sealants of proven compatibility with one another and with other materials they will contact, including glass products, seals of insulating-glass units, and glazing channel substrates, under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience.
 2. Suitability: Comply with sealant and glass manufacturers' written instructions for selecting glazing sealants suitable for applications indicated and for conditions existing at time of installation.
 3. Colors of Exposed Glazing Sealants: As selected by Architect from manufacturer's full range.

- B. Elastomeric Glazing Sealants: Comply with ASTM C 920 and other requirements indicated for each liquid-applied chemically curing sealant specified, including those referencing ASTM C 920 classifications for type, grade, class, and uses related to exposure and joint substrates.
1. Single-Component Neutral- and Basic-Curing Silicone Glazing Sealants:
 - a. Products: Subject to compliance with requirements, products which may be incorporated in the Work include the following:
 - 1) 790, Dow Corning Corporation 800-248-2481 www.dowcorning.com
 - 2) SilPruf LM SCS2700, GE 877-943-7325 www.siliconeforbuilding.com
 - 3) Spectrem 1 (Basic), Tremco Incorporated 800-852-9068 www.tremco.com
 - b. Type and Grade: S (single component) and NS (nonsag).
 - c. Class: 100/50.
 - d. Use Related to Exposure: NT (nontraffic).
 - e. Uses Related to Glazing Substrates: M, G, A, and, as applicable to glazing substrates indicated, O.
 - 1) Use O Glazing Substrates: Coated glass; color anodic aluminum; aluminum coated with a high-performance coating; galvanized steel; and wood.
 2. Neutral-Curing Silicone Glazing Sealants:
 - a. Products: Subject to compliance with requirements, products which may be incorporated in the Work include the following:
 - 1) 795, Dow Corning Corporation 800-248-2481 www.dowcorning.com
 - 2) UltraPruf II SCS2900, GE 877-943-7325 www.siliconeforbuilding.com
 - 3) 895, Pecora Corporation 800-523-6688 www.pecora.com
 - b. Type and Grade: S (single component) and NS (nonsag).
 - c. Class: 50.
 - d. Use Related to Exposure: NT (nontraffic).
 - e. Uses Related to Glazing Substrates: M, G, A, and, as applicable to glazing substrates indicated, O.
 - 1) Use O Glazing Substrates: Coated glass; color anodic aluminum; aluminum coated with a high-performance coating; galvanized steel; and wood.
- C. Class 25 Neutral-Curing Silicone Glazing Sealant:
1. Products: Subject to compliance with requirements, products which may be incorporated in the Work include the following:
 - a. 799, Dow Corning Corporation 800-248-2481 www.dowcorning.com
 - b. UltraGlaze SSG4000, GE 877-943-7325 www.siliconeforbuilding.com
 - c. Proglaze SF, Tremco Incorporated 800-852-9068 www.tremco.com
 2. Type and Grade: S (single component) and NS (nonsag).
 3. Class: 25.
 4. Use Related to Exposure: NT (nontraffic).
 5. Uses Related to Glazing Substrates: M, G, A, and, as applicable to glazing substrates indicated, O.

- a. Use O Glazing Substrates Coated glass; color anodic aluminum; aluminum coated with a high-performance coating; galvanized steel; and wood.
- D. Latex Sealant for Decorative Glass: One-part, nonsag, mildew-resistant, paintable latex sealant complying with ASTM C 834.

2.5 GLAZING TAPES

- A. Back-Bedding Mastic Glazing Tapes: Preformed, butyl-based elastomeric tape with a solids content of 100 percent; nonstaining and nonmigrating in contact with nonporous surfaces; with or without spacer rod as recommended in writing by tape and glass manufacturers for application indicated; packaged on rolls with a release paper backing; and complying with ASTM C 1281 and AAMA 800 for products indicated below:
- 1. AAMA 806.3 tape, for glazing applications in which tape is subject to continuous pressure.
 - 2. AAMA 807.3 tape, for glazing applications in which tape is not subject to continuous pressure.
- B. Expanded Cellular Glazing Tapes: Closed-cell, PVC foam tapes; factory coated with adhesive on both surfaces; packaged on rolls with release liner protecting adhesive; and complying with AAMA 800 for the following types:
- 1. Type 1: For glazing applications in which tape acts as the primary sealant.
 - 2. Type 2: For glazing applications in which tape is used in combination with a full bead of liquid sealant.

2.6 MISCELLANEOUS GLAZING MATERIALS

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

2.7 FABRICATION

- A. General: Fabricate glass units and other glazing products in sizes required to glaze openings indicated for the Project, with edge and face clearances, edge and surface conditions, and bit complying with recommendations of product manufacturer and referenced glazing standards.
- B. Clean cut or flat grind vertical edges of butt-glazed lites in a manner that produces square edges with slight kerfs.

PART 3 - EXECUTION

3.1 EXAMINATION

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

3.2 PREPARATION

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

3.3 GLAZING, GENERAL

- A. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.
- B. Glazing channel dimensions, as indicated on Drawings, provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances. Adjust as required by Project conditions during installation.
- C. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of off Project site. Damaged glass is glass with edge damage or other imperfections that, when installed, could weaken glass and impair performance and appearance.
- D. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction sealant-substrate testing.
- E. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.
- F. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.
- G. Provide spacers for glass lites where length plus width is larger than 50 inches (1270 mm) as follows:
 - 1. Locate spacers directly opposite each other on both inside and outside faces of glass. Install correct size and spacing to preserve required face clearances, unless gaskets

and glazing tapes are used that have demonstrated ability to maintain required face clearances and to comply with system performance requirements.

2. Provide 1/8 inch (3 mm) minimum bite of spacers on glass and use thickness equal to sealant width. With glazing tape, use thickness slightly less than final compressed thickness of tape.
- H. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended in writing by glass manufacturer and according to requirements in referenced glazing publications.
 - I. Set glass lites in each series with uniform pattern, draw, bow, and similar characteristics.
 - J. Where wedge-shaped gaskets are driven into one side of channel to pressurize sealant or gasket on opposite side, provide adequate anchorage so gasket cannot walk out when installation is subjected to movement.
 - K. Square cut wedge-shaped gaskets at corners and install gaskets in a manner recommended by gasket manufacturer to prevent corners from pulling away; seal corner joints and butt joints with sealant recommended by gasket manufacturer.

3.4 TAPE GLAZING

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

3.5 GASKET GLAZING (DRY)

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

Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.

- D. Install gaskets so they protrude past face of glazing stops.

3.6 SEALANT GLAZING (WET)

- A. Install continuous spacers, or spacers combined with cylindrical sealant backing, between glass lites and glazing stops to maintain glass face clearances and to prevent sealant from extruding into glass channel and blocking weep systems until sealants cure. Secure spacers or spacers and backings in place and in position to control depth of installed sealant relative to edge clearance for optimum sealant performance.
- B. Force sealants into glazing channels to eliminate voids and to ensure complete wetting or bond of sealant to glass and channel surfaces.
- C. Tool exposed surfaces of sealants to provide a substantial wash away from glass.

3.7 CLEANING AND PROTECTION

- A. Protect exterior glass from damage immediately after installation by attaching crossed streamers to framing held away from glass. Do not apply markers to glass surface. Remove nonpermanent labels, and clean surfaces.
- B. Protect glass from contact with contaminating substances resulting from construction operations, including weld splatter. If, despite such protection, contaminating substances do come into contact with glass, remove substances immediately as recommended by glass manufacturer.
- C. Examine glass surfaces adjacent to or below exterior concrete and other masonry surfaces at frequent intervals during construction, but not less than once a month, for buildup of dirt, scum, alkaline deposits, or stains; remove as recommended in writing by glass manufacturer.
- D. Remove and replace glass that is broken, chipped, cracked, or abraded or that is damaged from natural causes, accidents, and vandalism, during construction period.

END OF SECTION 08 80 00

SECTION 09 90 00 - PAINTING AND COATING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes surface preparation and field application of paints and other coatings.
 - 1. Surface preparation, priming, and finish coats specified in this Section are in addition to shop priming and surface treatment specified in other Sections.
 - 2. It is the intent of this Section that all exterior and interior materials normally requiring finish paint, coating, or stain/finishing as determined by the Architect, will be painted, coated, or stain/finished under this Section except for specialty coatings and finishes specifically covered under other Sections.
 - 3. Where the Bidder is uncertain of whether a specific item is intended to be painted, coated, or stain/finished, contact the Architect during the Bidding period for clarification.
- B. Related Sections include the following:
 - 1. Section: 06 10 53 - Miscellaneous Rough Carpentry: Wood furring, blocking, and shims.
- C. Paint exposed surfaces, except where these Specifications indicate that the surface or material is not to be painted or is to remain natural. 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, Architect will select from standard colors and finishes available.

1.2 REFERENCES

- A. ASTM International:
 - 1. ASTM D16 - Standard Terminology Relating to Paint, Varnish, Lacquer, and Related Products.
 - 2. ASTM D3359 – Standard Test Method for Measuring Adhesion by Tape Test.
- B. Painting and Decorating Contractors of America:
 - 1. PDCA - Architectural Painting Specification Manual.

1.3 SUBMITTALS

- A. Section 01 33 00 - Submittal Procedures: Submittal procedures.
- B. Product Data: Submit the following for each product specified; include primers and block fillers.
 - 1. Material List: An inclusive list of required coating materials. Indicate each material and cross-reference specific coating, finish system, and application. Identify each material by manufacturer's catalog number and general classification.
 - 2. Manufacturer's Information: Manufacturer's technical information, including label analysis and instructions for handling, storing, and applying each coating material.
- C. Samples: For each color and material to be applied, provide on-site samples that match color, finish, sheen and sheen of each existing painted surface to be matched. For any selected new non-matching colors provide actual painted color cards, nominal 6" x 6" square.

1.4 QUALITY ASSURANCE

- A. Obtain primers from the same manufacturer as the finish coats.

1.5 QUALIFICATIONS

- A. Applicator: Company specializing in performing work of this section on projects similar in materials, design, and extent to those of this project, and whose work has resulted in applications with successful in-service performance.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Section 01 60 00 - Product Requirements: Product storage and handling requirements.
- B. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
- C. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
- D. Paint Materials: Store at minimum ambient temperature of 45 degrees F and maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.

1.7 ENVIRONMENTAL REQUIREMENTS

- A. Section 01 60 00 - Product Requirements.
- B. Do not apply materials when surface and ambient temperatures are outside temperature ranges required by paint product manufacturer.
- C. Minimum Application Temperatures for Latex Paints: 45 degrees F for interiors; 50 degrees F for exterior; unless required otherwise by manufacturer's instructions.
- D. Minimum Application Temperature for Varnish Finishes: 65 degrees F for interior or exterior, unless required otherwise by manufacturer's instructions.
- E. Provide lighting level of 80 ft candle measured mid-height at substrate surface.

1.8 SEQUENCING

- A. Section 01 10 00 - Summary: Work sequence.
- B. Sequence application to the following:
 - 1. Do not apply finish coats until paintable sealant is applied.

1.9 WARRANTY

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

PART 2 - PRODUCTS

2.1 PAINTS AND COATINGS

- A. Manufacturers:
 - 1. Glidden Professional, www.gliddenprofessional.com.
 - 2. Sherwin-Williams Co. (Sherwin-Williams), www.sherwin-williams.com
 - 3. Kelly-Moore Paint Co. www.kellymoore.com
 - 4. Benjamin Moore & Co. www.benjaminmoore.com
 - 5. PPG Paints www.ppgpaints.com
 - 6. Specialty Backdrop Paint: Rosco Laboratories, www.rosco.com
 - 7. Substitutions: Section 01 60 00 - Product Requirements.

2.2 MATERIALS

- A. Coatings: Ready mixed, except field catalyzed coatings. Prepare coatings:

1. To soft paste consistency, capable of being readily and uniformly dispersed to homogeneous coating.
 2. For good flow and brushing properties.
 3. Capable of drying or curing free of streaks or sags.
- B. Accessory Materials: Linseed oil, shellac, turpentine, paint thinners and other materials not specifically indicated but required to achieve finishes specified; commercial quality.
- C. Patching Materials: Latex filler.
- D. Fastener Head Cover Materials: Latex filler.
- E. 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.
- F. 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.
- G. Colors: As indicated in the Color Schedule in the Drawings.
- H. VOC Content: Products shall comply with VOC limits of authorities having jurisdiction and, for interior paints and coatings applied at Project site, the following VOC limits, exclusive of colorants added to a tint base, when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
1. Flat Paints and Coatings: 50 g/L.
 2. Nonflat Paints and Coatings: 150 g/L.
 3. Dry-Fog Coatings: 400 g/L.
 4. Primers, Sealers, and Undercoaters: 200 g/L.
 5. Anticorrosive and Antirust Paints Applied to Ferrous Metals: 250 g/L.
 6. Zinc-Rich Industrial Maintenance Primers: 340 g/L.
 7. Pretreatment Wash Primers: 420 g/L.
 8. Floor Coatings: 100 g/L.
 9. Shellacs, Clear: 730 g/L.
 10. Shellacs, Pigmented: 550 g/L.

2.3 EXTERIOR PRIMERS

- A. Exterior Metal Field Primers:
1. Factory-formulated metal primer for galvanized or bare metal without shop primer.
 - a. Sherwin-Williams; Pro-Cryl Universal Water Based Primer, B66 Series: Applied at a dry film thickness of 2.0 – 4.0 mils per coat.
 2. Field Welds in Galvanized Metal:
 - a. ZRC Worldwide "Galvilite" zinc-rich coating.
- B. Shop Primers: Typically applied by steel or miscellaneous metals fabricator.
1. Verify compatibility of finish paint with shop-applied primers.
 2. Reference Division 5 metals sections for special epoxy shop primers required at items specified or indicated to be shop primed and field painted with urethane alkyd enamel.
 3. Reference Division 5 metals sections for items to receive zinc-rich primer.

2.4 EXTERIOR FINISH COATS.

- A. Urethane Alkyd Enamel: Factory-formulated full-gloss urethane alkyd enamel for exterior application.
1. Sherwin-Williams; Industrial Urethane Alkyd Enamel, B54E51: Applied at a dry film

thickness of 2.0 – 4.0 mils per coat.

- B. Alkyd Enamel: Factory-formulated formulated full-gloss alkyd enamel for exterior application.
 - 1. Sherwin-Williams; Industrial Enamel B-54WZ101: Applied at a dry film thickness of not less than 2.0 mils per coat.
 - 2. Apply two (2) coats over specified primer.
- C. Exterior Low-Luster Acrylic Paint: Factory-formulated low-sheen (eggshell) acrylic-latex paint for exterior application.
 - 1. Sherwin-Williams; A-100 Exterior Latex Satin House & Trim Paint A82 Series: Applied at a dry film thickness of not less than 1.5 mils.
 - 2. Apply two (2) coats over specified primer.

2.5 INTERIOR PRIMERS: Over unpainted new surfaces.

- A. Interior Ferrous-Metal Primer: Factory-formulated quick-drying rust-inhibitive alkyd-based metal primer for metal items not shop-primed.
 - 1. Sherwin-Williams; Pro Cryl Universal Water Based Primer B66 series: Applied at a dry film thickness of 2.0 – 4.0 mils.
- B. Interior Zinc-Coated Metal Primer: Factory-formulated metal primer for galvanized metals not shop primed.
 - 1. Sherwin-Williams; Pro Cryl Universal Water Based Primer B66 series: Applied at a dry film thickness of 2.0 – 4.0 mils.

2.6 INTERIOR FINISH COATS:

- A. Interior Metal including Doors, and Frames:
 - 1. Apply two (2) coats of Pro Industrial Zero VOC Acrylic Semi-Gloss, B66W651 over shop primer.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Section 01 30 00 - Administrative Requirements: Coordination and project conditions.
- B. It is the paint contractor's responsibility to determine the type, sheen, and color of existing painted surfaces for matching, and apply only products that are compatible to existing and will provide proper adhesion to existing.
- C. Examine surfaces scheduled to be finished prior to commencement of work. Report conditions capable of affecting proper application.
- D. Test shop applied primer for compatibility with subsequent cover materials.

3.2 PREPARATION

- A. General: Remove hardware and hardware accessories, plates, machined surfaces, lighting fixtures, and similar items already installed that are not to be painted.
 - 1. If removal is impractical or impossible because of size or weight of the item, provide surface-applied protection before surface preparation and painting.
 - 2. 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 re-prime.
 2. Ferrous Metals: Clean ungalvanized 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.
 1. Blast steel surfaces clean as recommended by paint system manufacturer and according to SSPC-SP 10/NACE No. 2.
 2. 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.
 3. Galvanized Surfaces: Clean galvanized surfaces with nonpetroleum-based solvents so surface is free of oil and surface contaminants. Remove pretreatment from galvanized sheet metal fabricated from coil stock by mechanical methods.
- D. Previously Painted Surfaces: When painting over surfaces that have been previously painted, prepare surfaces in accordance with paint manufacturer's instructions, and verify with manufacturer that new coatings are compatible with the existing coatings.
1. For proper adhesion of new paint, all existing painted surfaces with any level of sheen must be sanded prior to applying new products, regardless of manufacturer's statements regarding whether sanding of existing paint products is needed.
 2. Arrange for paint manufacturer's factory representative to perform adhesion testing of existing paint layer(s) in accordance with ASTM D3359 using approved cross cutting blade, flaking brush, and pressure-sensitive tape (PA-280630 manufactured by Interpolymer Group). Existing paint shall be considered as satisfactorily adhered to substrate with a test result of 4B or better (less than 5% removed by test).
 3. Remove completely any loose, flaking, or non-adhering paint. Clean existing finishes of grease, oil, dust or other materials that may tend to adversely affect adhesion of new paint. Do not use cleaners that will leave a residue.
 4. Remove by sanding any gloss or sheen on existing painted surfaces before application of paint. Remove all sanding dust. Application of a bonding primer is not a substitute for removal of sheen by sanding.
 5. Apply an alkyd bonding primer to all prepared existing painted surfaces prior to application of new paint. Use manufacturer's recommended epoxy primer for new epoxy painting. Verify proper primer for the specific application with the finish paint manufacturer and submit to the Architect.
 6. Where encountering existing no-sheen finishes primer may not be required if preparation of existing surfaces will produce sufficient bonding of new paint, as demonstrated to the Architect through industry standard adhesion testing.
- A. Material Preparation: Mix and prepare paint materials according to manufacturer's written instructions.
- a. Maintain containers used in mixing and applying paint in a clean condition, free of foreign materials and residue.
 - b. 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.
 - c. Use only thinners approved by paint manufacturer and only within recommended limits.

- B. Tinting: Tint each undercoat a lighter shade to simplify identification of each coat when multiple coats of same material are applied. Tint undercoats to match the color of the finish coat, but provide sufficient differences in shade of undercoats to distinguish each separate coat.

3.3 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. Paint colors, surface treatments, and finishes are indicated in the paint schedules.
 - 2. Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to formation of a durable paint film.
 - 3. Provide finish coats that are compatible with primers used.
 - 4. 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.
 - 5. Paint surfaces behind movable equipment and furniture the same as similar exposed surfaces. Before final installation of equipment, paint surfaces behind permanently fixed equipment or furniture with prime coat only.
 - 6. Paint interior surfaces of ducts with a flat, nonspecular black paint where visible through registers or grilles.
 - 7. Paint back sides of access panels and removable or hinged covers to match exposed surfaces.
 - 8. Finish exterior doors on tops, bottoms, and side edges the same as exterior faces.
 - 9. Finish interior of wall and base cabinets and similar field-finished casework to match exterior.
 - 10. Sand lightly between each succeeding coat and clean with tack-cloth.
- B. Scheduling Painting: Apply first coat to surfaces that have been cleaned, pretreated, or otherwise prepared for painting as soon as practicable 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.
 - 3. Spray Equipment: Use airless spray equipment with orifice size 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. 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.
- F. 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.
- G. Completed Work: Match approved samples for color, texture, and coverage. Remove, refinish, or repaint work not complying with requirements.

3.4 FIELD QUALITY CONTROL

- A. Section 01 40 00 - Quality Requirements 01 70 00 - Execution and Closeout Requirements: Field inspecting, testing, adjusting, and balancing.
- B. Owner reserves the right to test installed work at any time and as often as Owner deems necessary during the period when paint is being applied:
 - 1. Owner will engage a qualified independent testing agency to sample paint material being used. Samples of material delivered to Project will be taken, identified, sealed, and certified in the presence of Contractor.
 - 2. 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.

3.5 CLEANING

- A. Section 01 70 00 - Execution and Closeout Requirements: Final cleaning.
- B. Collect waste material which may constitute fire hazard, place in closed metal containers, and remove daily from site.
- C. After completing painting, clean glass and paint-spattered surfaces. Remove spattered paint by washing and scraping without scratching or damaging adjacent finished surfaces.

3.6 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 Architect.
- 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.

3.7 SCHEDULE - EXTERIOR SURFACES

- A. Scheduling of paint types below is a general reference for the Project. Where specific paint types on the Color/Finish Schedule in the drawings vary from below, the Color/Finish Schedule shall govern
- B. Metals: Provide the following finish systems over exterior galvanized or non-galvanized metal surfaces indicated to be painted:
 - 1. Steel doors and frames, railings, steel masonry lintels, steel stairs:

1. Two coats specified urethane alkyd enamel over specified primer or shop primer.
2. Miscellaneous piping, bollards, equipment supports indicated to be painted and not scheduled as urethane alkyd:
 1. Primer: Specified exterior metal primer.
 2. Finish Coats: Two coats specified exterior full-gloss alkyd enamel.
3. Field Welds and Cuts on Galvanized Metal: Apply 2-coats of specified zinc-rich coating over wire-brushed and cleaned galvanized metal.

3.8 SCHEDULE - INTERIOR SURFACES

- A. Scheduling of paint types below is a general reference for the Project. Where specific paint types on the Color/Finish Schedule in the drawings vary from below, the Color/Finish Schedule shall govern.
- B. Metals: Provide the following finish systems over exterior galvanized or non-galvanized metal surfaces indicated to be painted:
 1. Stair treads, risers, and stringers; railings and field-painted infill panels; other items specifically indicated for urethane alkyd enamel.
 1. Two coats specified urethane alkyd enamel over specified primer or shop primer.
 2. Miscellaneous piping, bollards, equipment supports; loose lintels.
 1. Primer: Specified metal primer or shop primer.
 2. Finish Coats: Two coats specified exterior full-gloss alkyd enamel.
 3. Field Welds and Cuts in Galvanized Metals: Apply 2-coats of specified zinc-rich coating over wire-brushed and cleaned galvanized metal

END OF SECTION

SECTION 10 73 26 - METAL WALKWAY COVERS AND ENTRY CANOPIES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Aluminum walkway covers.
 - 2. Aluminum entry canopies.
 - 3. Flashing where connections to buildings are made.
- B. Related Work:
 - 1. Section 07 62 00 - Sheet Metal Flashing and Trim.

1.2 QUALITY ASSURANCE

- A. Installer Qualifications: Use for installation, only personnel who are skilled in the work required, familiar with the manufacturer's recommended methods of installation and the requirements of the work.

1.3 SUBMITTALS:

- A. Shop Drawings: Submit Shop Drawings in accordance with Division 1 Section "Submittals".
- B. Contractor shall submit shop drawings for approval by the Architect prior to fabrication of any materials. Shop Drawings shall clearly illustrate all details including but not limited to: Plan views, column layout and measurements, footing sizing and details, drainage locations and details, building wall condition details, flashing details, Canopy component sizing and thickness, Fastener sizing, large scale assembly details, and finishes by component. Contractor shall verify all dimensions and elevations prior to submittal to Architect and are to be checked by Manufacturer prior to fabrication.
 - 1. The site-specific shop drawings and calculations shall bear the seal of a Civil or Structural engineer authorized to practice in the state of Texas where the project is located.
 - 2. Design loads for live load, wind uplift, and wind load shall be identified in the submittal.
- C. Samples for Initial Selection: Manufacturer's color charts showing the full range of colors available for units with factory-applied color finishes.
- D. Samples for Verification: Of each type of exposed finish required in manufacturer's standard sizes. Where finishes involve normal color and texture variations, include Sample sets showing the full range of variations expected.
- E. Installation Methods: Submit two copies of manufacturer's recommended installation methods.

1.4 PRODUCT HANDLING

- A. Protection: Protect walkway covers before, during and after installation. Protect installed work of other trades.
- B. Replacements: In the event of damage, make repairs or replacements as necessary.

PART 2 - PRODUCTS

2.1 GENERAL

- A. Designs are based on the product of AVAdek Walkway Cover Systems.
- B. Manufacturers: Subject to compliance with requirements, provide products of one of the

following manufacturers.

1. Aluminum Techniques, Inc. www.aluminumtechniques.com
 2. ASA Builders, Inc., www.asabuildersinc.com.
 3. AVAdek Walkway Cover Systems & Canopies www.avadek.com
 4. Dittmer Architectural Aluminum; Ditt-Deck Extruded Aluminum Walkway Covers www.ditt-deck.com
 5. E.L. Burns Company, Inc.; Burns Walkway Covers www.burnscovers.com
 6. Peachtree Protective Covers www.peachtreecovers.com
 7. Substitutions: Section 01 60 00 - Product Requirements.
- C. Design Requirements: Systems shall be designed for a minimum 20 psf Live load and 25 psf Wind Uplift Load, or additional should applicable code authorities require.
1. Canopy shall be designed to withstand a 90 mph wind event.
 2. It is the responsibility of the walkway cover/canopy manufacturer to verify the design meets the structural load requirements as mentioned.

2.2 MATERIALS

- A. Beams: Minimum 6" x 4" x .125" "U" Beams, Alloy 6063-T6 temper
- B. Bents: Extruded Aluminum Type A (U-Bent), Alloy 6063-T6 temper.
- C. Deck: Minimum 2-3/4" ht. x 6" x .078" thickness extruded aluminum, Alloy 6063-T6 temper. (Roll-Formed is not acceptable.)
- D. Fascia / Trim: Extruded Aluminum 8" ht. X 3" x .125" "G" Alloy 6063-T6 temper
- E. The component sizes noted above are minimums and shall be precluded by component sizes called out on the drawings, or larger components as required to achieve the required structural performance.
- F. Fasteners: Stainless Steel
- G. Bituminous Paint: Cold-applied asphalt-mastic paint complying with SSPC-Paint 12 requirements, except containing no asbestos, formulated for 30-mil (0.762-mm) thickness per coat.
- H. Miscellaneous:
1. Provide fasteners, sealant, flashing, additional components, etc., to match bents, deck, and trim as required to provide for a complete and finished system.
 2. Provide clear anodized aluminum Trellis Tubes. Rectangular tube sections in size(s) as indicated.

2.3 ALUMINUM FINISHES

- A. General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations relative to applying and designating finishes.
- B. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.
- C. Aluminum Finishes: Finish designations prefixed by "AA" conform to the system established by the Aluminum Association for designating aluminum finishes.
1. Class I, Clear Anodic Finish: AA-M12C22A41 Anodic coating, Architectural Class I, clear coating 0.018 mm or thicker) complying with AAMA [607.1](#)

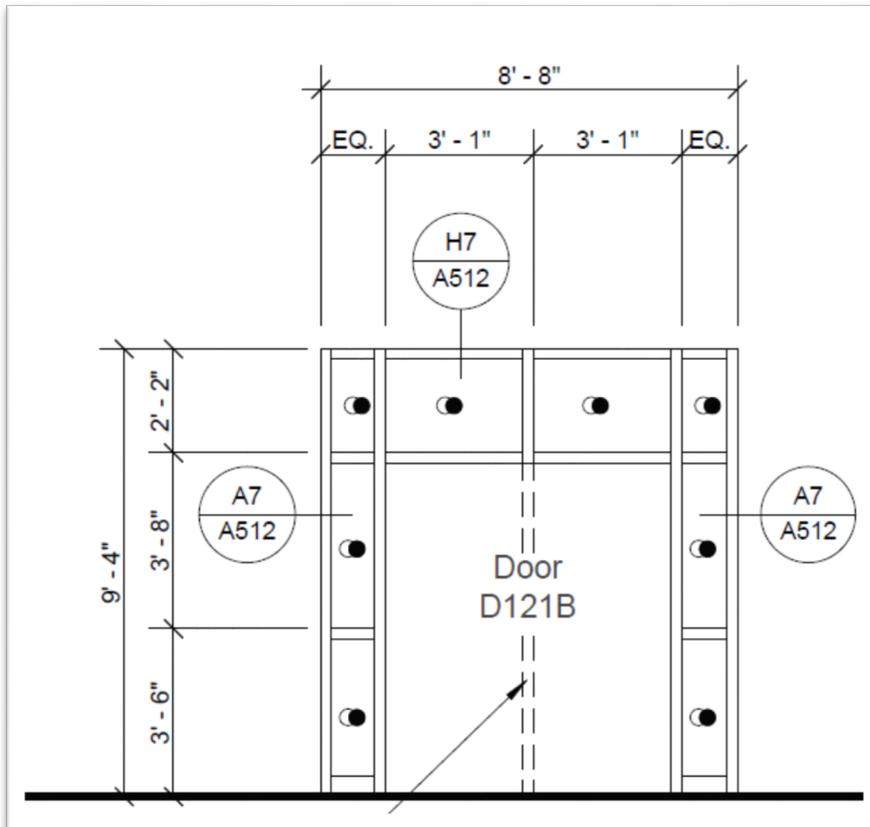
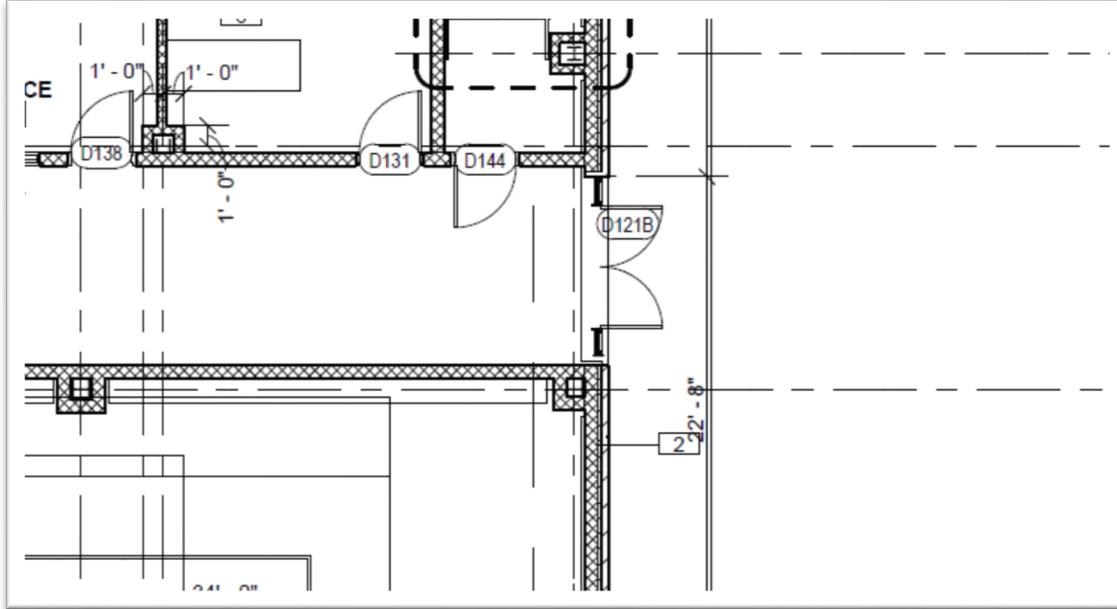
PART 3 - EXECUTION

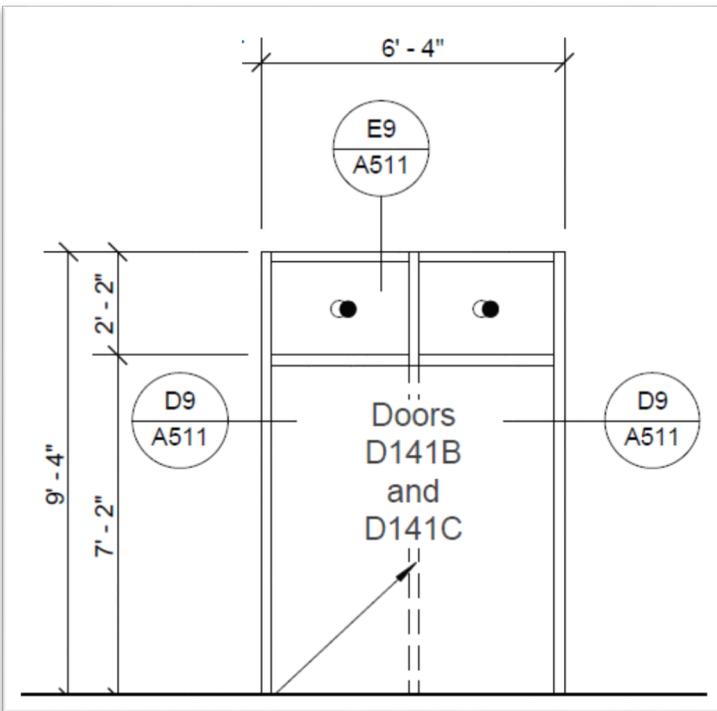
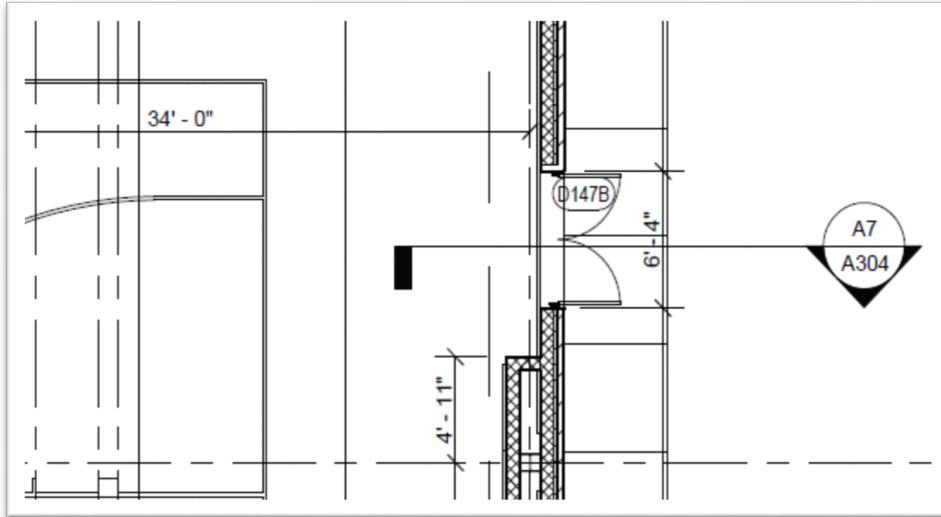
- A. Coordinate installation with scheduled concrete, masonry and roofing work.
- B. Metal Protection: Where aluminum will contact dissimilar metals, protect against galvanic action by painting contact surfaces with primer or by applying sealant or tape recommended by manufacturer for this purpose. Where aluminum will contact concrete or masonry, protect against corrosion by painting contact surfaces with bituminous paint.
- C. Erection shall be by manufacturer in accordance with approved Shop Drawings.

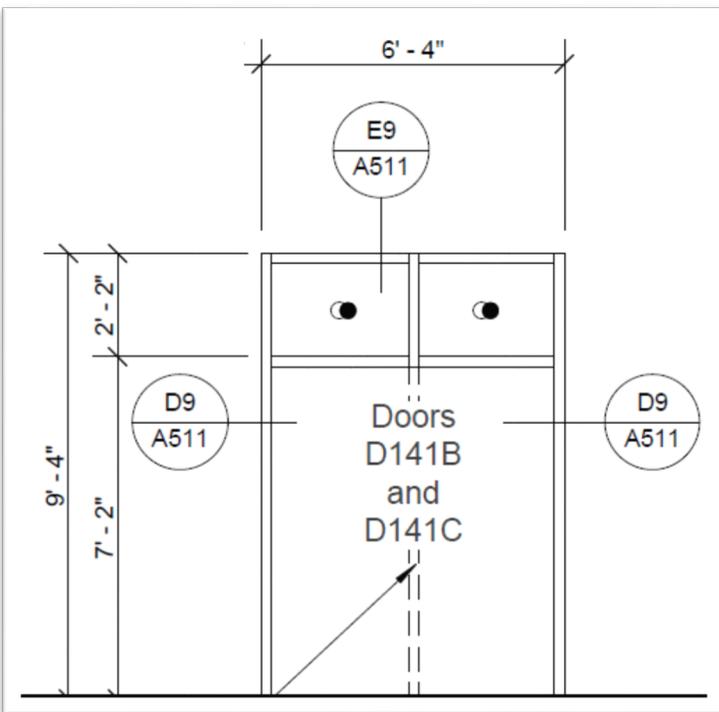
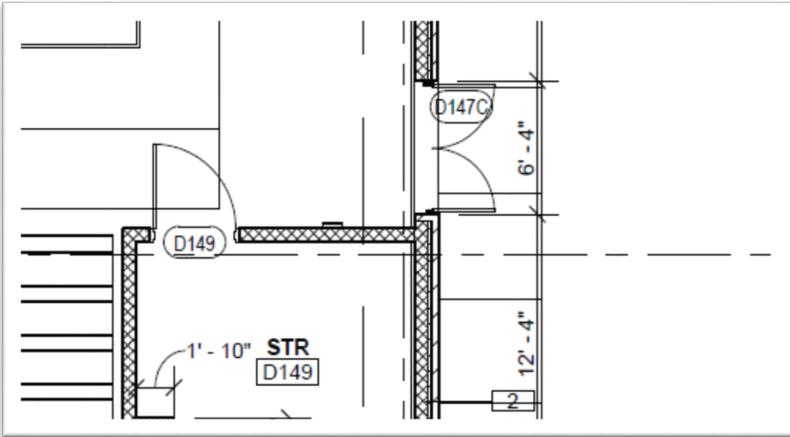
END OF SECTION

Replace D121B, D147B, and D147C existing exterior aluminum framed storefront doors and entrances, glazing, and door hardware with standard steel door and frame entrances, glazing, and door hardware.

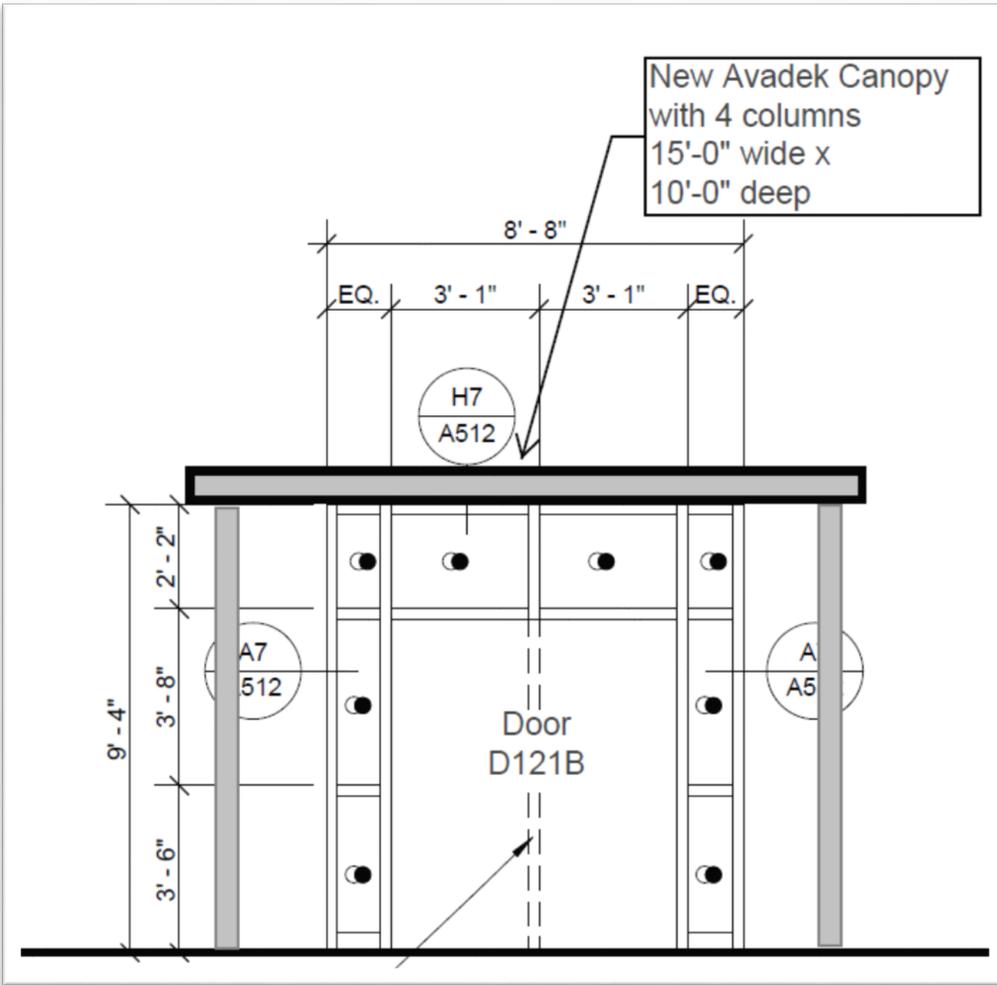
Glazing shall be tempered low-e tinted insulating glass. Door hardware shall include closer, coordinator, hinges, panic bars, weather seals, sweeps, rain guard, removable mullion, threshold, lever with removable core, and removable center mullion.

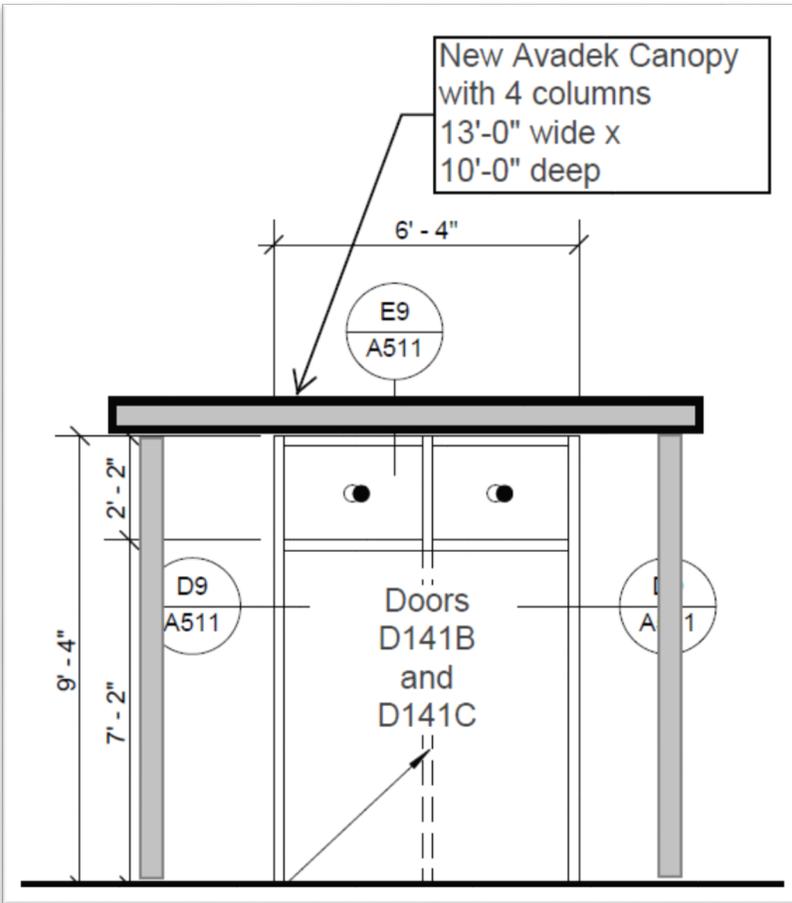


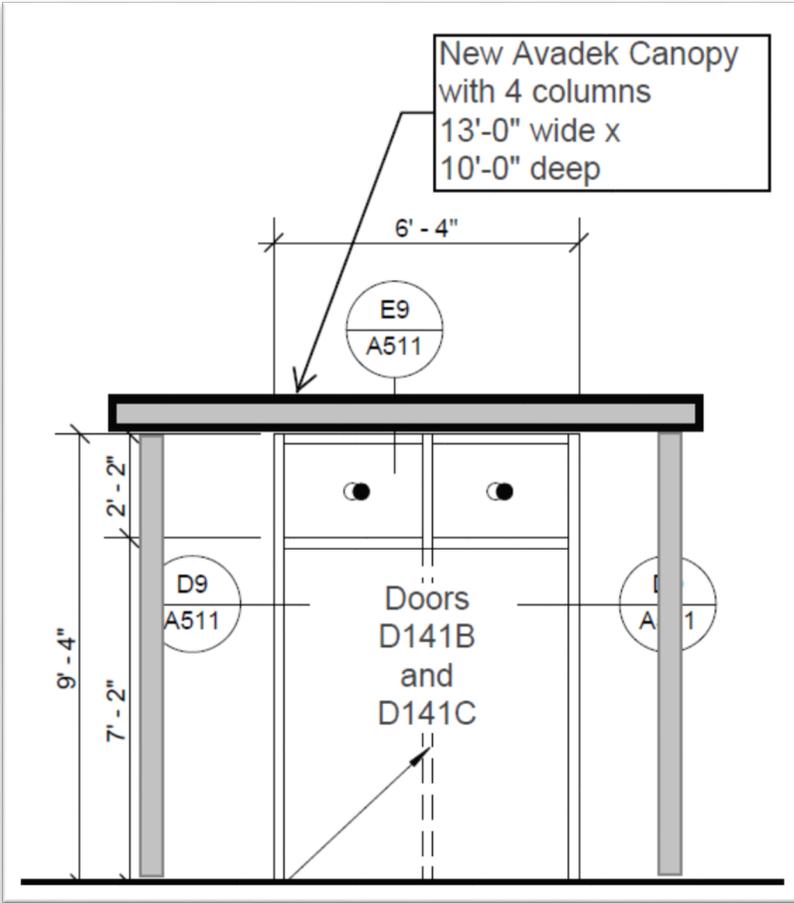


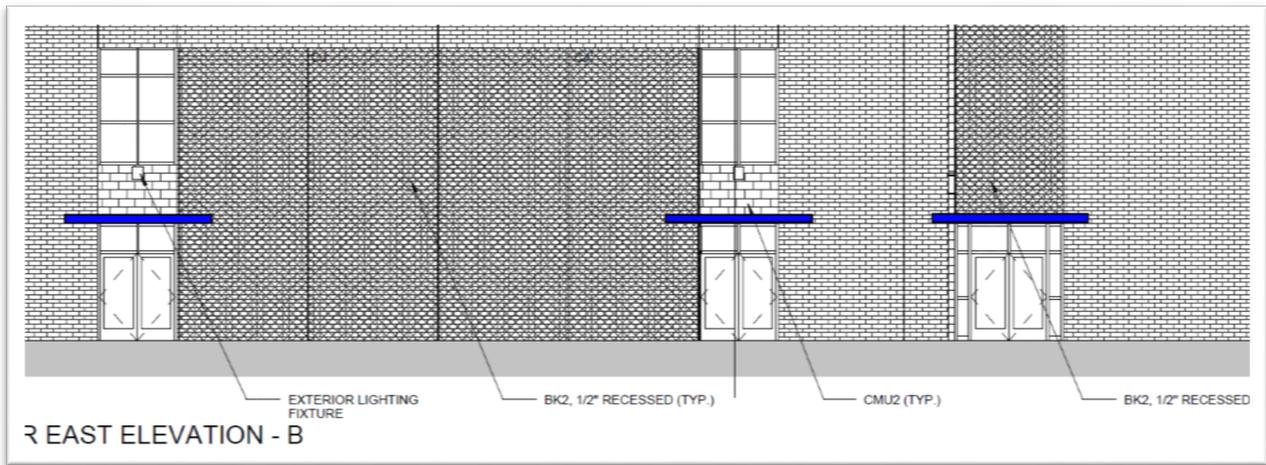
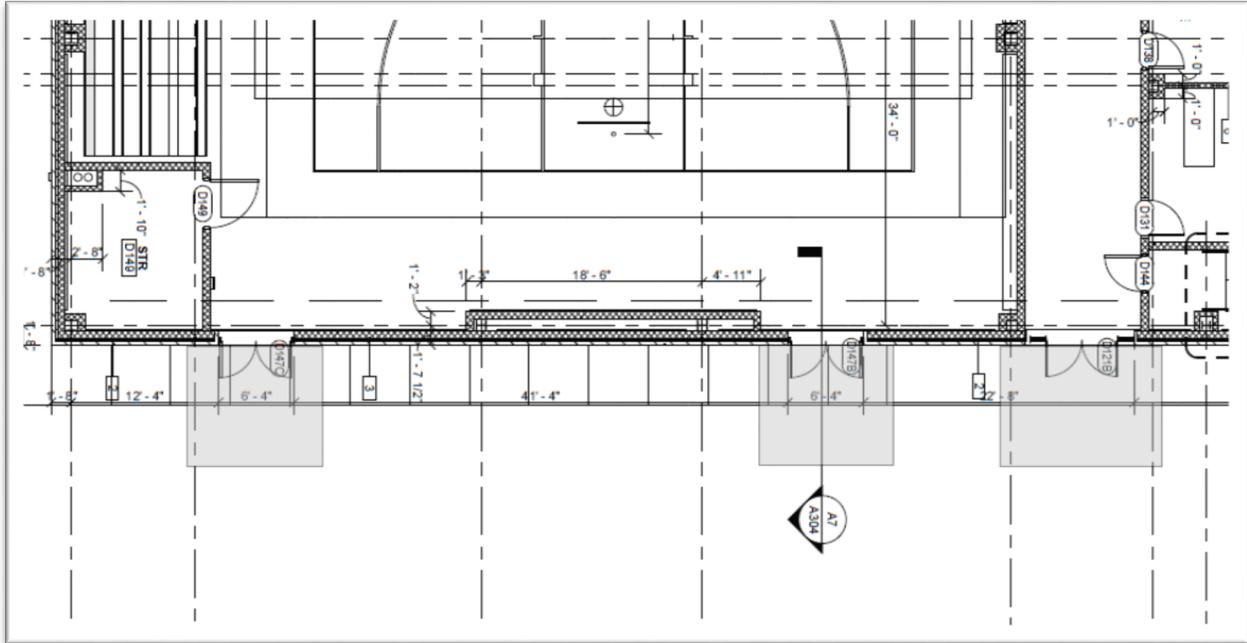


Add metal entry canopies over entrances D121B, D147B, and D147C.









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