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architecture | interiors

project manual

new project for:

Meramec Ambulance District
Station 1 & 3 Remodel

Station1: 429 E. Osage Street, Pacific, MO 63069
Station 3: 7390 State Highway O, Robertsville, MO 63072

procurement & contracting requirements

specifications

reference table of contents

Proj. Manual 1 of 2

October 16, 2026

Architect Project No.: 25083

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INVITATION TO BID

MERAMEC AMBULANCE DISTRICT

Stations No. 1 & No. 3 Renovations

Station No. 4 New Construction, 385 Old Manchester Road, Pacific, MO 63069

Notice is hereby given that the Meramec Ambulance District is accepting sealed bids for two (2) separate General Construction project packages: (1) renovations to Stations No. 1 and No. 3, and (2) construction of new Station No. 4. Bids shall be submitted on or before **November 13, 2026 at 2:00 PM local time.**

Bids shall be submitted to:

Meramec Ambulance District
Attention: Taz Meyer, Chief
Station No. 3
7390 State Highway O
Robertsville, MO 63072

There will be a public opening of the bids immediately following at:
Pacific Fire Protection District Station No. 2 – Meeting Room
7376 State Highway O
Robertsville, MO 63072

There will be two (2) separate General Construction bid packages. The Stations No. 1 and No. 3 Renovations will be bid as one combined project package. Station No. 4 New Construction will be bid as a separate project package. Bidders may submit a bid for either project package or for both project packages.

The Stations No. 1 and No. 3 Renovations generally include interior and exterior improvements; site, plumbing, electrical, lighting and generator work; finish upgrades; fixtures and equipment; and related renovation work at the two existing ambulance stations. Station No. 4 scope includes site development and construction of a new ambulance base station.

Prospective general contractors and subcontractors are highly encouraged to attend the pre-bid meeting that will be held on **October 28, 2026 at 9:00 AM local time at Meramec Ambulance District Station No. 3 Apparatus Bay, 7390 State Highway O, Robertsville, MO 63072**. The meeting will be followed by walkthroughs of existing Stations No. 3 and No. 1 to review existing conditions. No site walkthrough is scheduled for the Station No. 4 New Construction project.

Bid documents and specifications may be obtained, and questions regarding these projects may be directed to the following persons:

- Matthew Bethel, Archimages, Inc., at mbethel@archimages-stl.com or 913-378-9533.
- Nicole Luedloff, Archimages, Inc., at nluedloff@archimages-stl.com or 314-965-7445.
- Josh Hurford, NAVIGATE, at josh@navigatebuildingsolutions.com or 512-808-9863.

The Meramec Ambulance District reserves the right to reject any and all bids, or to advertise for new bids if deemed necessary.

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SECTION 00 01 11
ARCHITECTURAL PROFESSIONAL SEAL

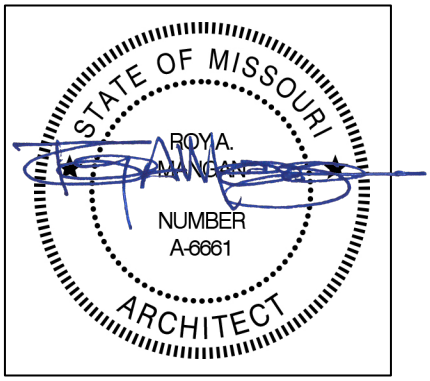
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NOTE: PLEASE REFERENCE SPECIFICATIONS SECTION 00 01 10 TABLE of CONTENTS FOR ADDITIONAL INFORMATION.

I do hereby deny any responsibility for all other Specifications, Estimates, Reports, Documents and or Instruments, related to, or intended to be used as any part of this Project.

ARCHITECTURAL PROFESSIONAL SEAL:
NAME: ROY A. MANGAN
MISSOURI LICENSE NO.: A-6661
LICENSE EXPIRES: DECEMBER 31, 2028
DISCIPLINE: ARCHITECTURAL
TITLE: PRINCIPAL, RA
COMPANY NAME: ARCHIMAGES, INC.



END OF SECTION

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SECTION 00 01 07.03
FIRE PROTECTION PROFESSIONAL SEAL

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NOTE: PLEASE REFERENCE SPECIFICATIONS SECTION 00 01 10 TABLE of CONTENTS FOR ADDITIONAL INFORMATION.

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FIRE PROTECTION PROFESSIONAL SEAL:

NAME: Richard Halteman
STATE: Missouri
LICENSE NO.: E-25112
LICENSE EXPIRES: 12/31/2026
DISCIPLINE: FIRE PROTECTION
TITLE: Senior Project Manager
COMPANY NAME: Horner & Shifrin



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SECTION 00 01 07.03
PLUMBING PROFESSIONAL SEAL

Disclaimer of Responsibility:

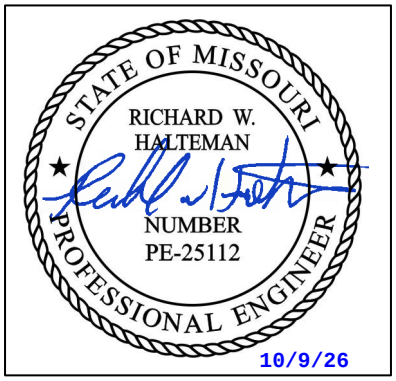
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PLUMBING PROFESSIONAL SEAL

NAME: Richard Halteman
STATE: Missouri
LICENSE NO.: E-25112
LICENSE EXPIRES: 12/31/2026
DISCIPLINE: PLUMBING
TITLE: Senior Project Manager
COMPANY NAME: Horner & Shifrin



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SECTION 00 01 07.05

HEATING, VENTILATING and AIR CONDITIONING PROFESSIONAL SEAL

Disclaimer of Responsibility:

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NOTE: PLEASE REFERENCE SPECIFICATIONS SECTION 00 01 10 TABLE of CONTENTS FOR ADDITIONAL INFORMATION.

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HEATING, VENTILATING and AIR-CONDITIONING PROFESSIONAL SEAL

NAME: Richard Halteman

STATE: Missouri

LICENSE NO.: E-25112

LICENSE EXPIRES: 12/31/2026

DISCIPLINE: HEATING, VENTILATING AND AIR CONDITIONING

TITLE: Senior Project Manager

COMPANY NAME: Horner & Shifrin



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SECTION 00 01 07.06
ELECTRICAL PROFESSIONAL SEAL

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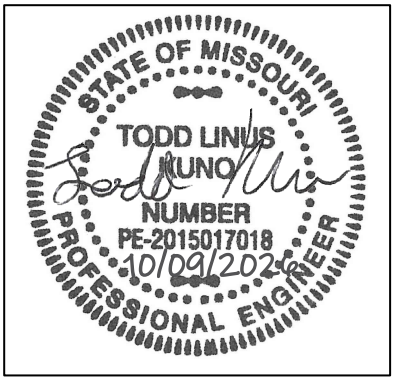
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NOTE: PLEASE REFERENCE SPECIFICATIONS SECTION 00 01 10 TABLE of CONTENTS FOR ADDITIONAL INFORMATION.

I do hereby disclaim any responsibility for all other Specifications, Estimates, Reports, Documents and or Instruments, related to, or intended to be used as any part of this Project.

ELECTRICAL PROFESSIONAL SEAL

NAME: Todd Kuno
STATE: Missouri
LICENSE NO.: PE-2015017018
LICENSE EXPIRES: 12-31-2027
DISCIPLINE: ELECTRICAL
TITLE: Project Manager - Building Services
COMPANY NAME: Horner & Shifrin



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SECTION 00 01 07.09
CIVIL PROFESSIONAL SEAL

Disclaimer of Responsibility:

I do hereby state that any documents intended to be authenticated by my seal, are limited to those Specification Sections delineating [INSERT FIRM NAME] as said Author.

NOTE: PLEASE REFERENCE SPECIFICATIONS SECTION 00 01 10 TABLE of CONTENTS FOR ADDITIONAL INFORMATION.

I do hereby disclaim any responsibility for all other Specifications, Estimates, Reports, Documents and or Instruments, related to, or intended to be used as any part of this Project.

CIVIL PROFESSIONAL SEAL

NAME: BRANDON A. HARP, P.E.
STATE: MISSOURI
LICENSE NO.: E-28650
LICENSE EXPIRES: 12/2027
DISCIPLINE: CIVIL
TITLE: PRESIDENT
COMPANY NAME: CIVIL ENGINEERING DESIGN CONSULTANTS, INC.



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INSTRUCTIONS TO BIDDERS

SUMMARY

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   2. Intent
   3. Work Identified in Contract Documents
   4. Contract Time

B. Bid Documents and Contract Documents
   1. Definitions
   2. Contract Documents Identification
   3. Availability
   4. Examination
   5. Inquiries/Addenda
   6. Product/Assembly/System Substitutions

C. Site Assessment
   1. Site Examination
   2. Prebid Conference

D. Qualifications
   1. Qualifications
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E. Bid Submission
   1. Submission Procedure
   2. Bid Ineligibility

F. Bid Enclosures/Requirements
   1. Security Deposit
   2. Performance Assurance
   3. Bid Form Requirements
   4. Fees for Changes in the Work
   5. Bid Form Signature
   6. Additional Bid Information
   7. Selection and Award of Alternates

G. Offer Acceptance/Rejection
   1. Duration of Offer
   2. Acceptance of Offer

1.02 RELATED DOCUMENTS

A. Document 01 10 00 - Summary.

B. Document 00 31 00 - Available Project Information.

C. Document 00 41 00 - Bid Form.

D. Document 00 41 01 - Supplemental Bid Information.

E. Document 00 41 10 Contractor’s Affidavit for Public Construction Projects.

F. Document 00 41 20 Non Collusion Affidavit.

G. Document 00 73 00 - Supplementary Conditions:

BIDDING INSTRUCTIONS

2.01 BID SUBMISSION

A. See 00 01 01 Invitation to Bid for Bid Date, submission location and bid opening information.

2.02 INTENT

A. The intent of this bid request is to obtain an offer to perform renovations to Meramec Ambulance District Stations No. 1 and No. 3 under a single Stipulated Sum Contract, in accordance with the Contract Documents.

B. The Work shall be performed in two sequential phases: Station No. 1 first, followed by Station No. 3. Concurrent construction operations at both station locations are prohibited.

2.03 WORK IDENTIFIED IN THE CONTRACT DOCUMENTS

A. Work of this proposed Contract comprises renovations and associated work at existing Meramec Ambulance District Stations No. 1 and No. 3, as identified in the Contract Documents.

B. Project Location:

1. Project Locations: Meramec Ambulance District Stations No. 1 and No. 3, at the addresses identified in the Contract Drawings.

2.04 CONTRACT TIME

A. Station No. 1 construction is anticipated to commence in early February 2027, subject to the Notice to Proceed and Owner authorization. The Contractor shall achieve Substantial Completion of Station No. 1 within sixteen (16) consecutive calendar weeks of its authorized commencement date.

B. Generator Installation: The furnishing and installation of the new generator shall be excluded from the sixteen (16) week construction duration requirement for the Station 1 scope. The Contractor shall make reasonable efforts to complete the generator installation within the established construction period; however, installation beyond this period shall be permitted due to equipment procurement and lead times. The Contractor shall coordinate the anticipated delivery and installation schedule with the Owner and Architect in advance and complete the installation within a reasonable timeframe following equipment delivery. Delayed generator installation shall not prevent Substantial Completion of the remaining Work, provided all other requirements for Substantial Completion have been satisfied.

C. Station No. 3 construction shall not commence until Station No. 1 has achieved Substantial Completion and the Owner has authorized commencement at Station No. 3. The Contractor shall achieve Substantial Completion of Station No. 3 within sixteen (16) consecutive calendar weeks of its authorized commencement date.

D. The Contractor shall perform construction at only one station location at a time. Concurrent construction operations, including subcontractor work, at both stations are prohibited. The Base Bid shall include all costs for sequential scheduling, separate mobilization and demobilization, and related coordination. The anticipated aggregate construction duration is thirty-two (32) weeks, excluding any Owner-authorized interval between station phases.

E. Identify the separate sixteen (16) week Contract Times for each station in the Bid Form and Agreement. The commencement dates and applicable Substantial Completion deadlines shall be established in the Agreement or by written Owner authorization.

F. Delays and Liquidated Damages: If Substantial Completion is not achieved by the applicable dates established in the Agreement, liquidated damages, if any, shall be governed by AIA Document A101, Section 4.5.

G. The Owner requires that the Work be completed as quickly as practicable within the required sequential construction approach. Time of completion may be considered when evaluating bids.

BID DOCUMENTS AND CONTRACT DOCUMENTS

3.01 DEFINITIONS

A. Bid Documents: Contract Documents supplemented with Invitation To Bid, Instructions to Bidders, Information Available to Bidders, Bid Form Supplements To Bid Forms and Appendices identified.

B. Contract Documents: Defined in AIA A201 Article 1 including issued Addenda.
   1. AIA Documents A101 and A201, attached in this Project Manual, include modifications from the original text.

C. Bid, Offer, or Bidding: Act of submitting an offer under seal.

D. Bid Amount: Monetary sum identified by the Bidder in the Bid Form.

E. A Bidder is a person or entity who submits a Bid and who meets all requirements set forth within bidding documents. This shall include, but not be limited to, General Contractors, Subcontractors, Subsubcontractors, Venders and Suppliers. All bidders shall be responsible for bidding a complete set of Contract documents.

3.02 CONTRACT DOCUMENTS IDENTIFICATION

A. Contract Documents are identified as Architect's project number Design Professional's Project Number as prepared by Archimages, Inc. These documents also include drawings, specifications and related information from the Architect's engineering consultants as identified in the Table of Contents and Drawing Index.

3.03 AVAILABILITY

A. Digital copies of Contract Documents may be downloaded, at no cost, from Archimages by contacting Nicole Luedloff via email: nluedloff@archimages-stl.com.

B. Bid Documents are made available only for the purpose of obtaining offers for this project. Their use does not grant a license for other purposes.

3.04 EXAMINATION

A. Upon receipt of Bid Documents verify that documents are complete. Notify Architect should the documents be incomplete.

B. Immediately notify Architect upon finding discrepancies or omissions in the Bid Documents.

C. All Bidders shall be responsible for reviewing and including all Work outlined within the Bid Documents, prior to Submitting a Bid.

3.05 INQUIRIES/ADDENDA

A. Direct all bidding questions, requests for clarification, and addenda inquiries in writing to Nicole Luedloff (nluedloff@archimages-stl.com) and Matthew Bethel (mbethel@archimages-stl.com), Archimages, Inc.

B. Addenda may be issued during the bidding period. All Addenda become part of Contract Documents. Include resultant costs in the Bid Amount.

C. Verbal answers are not binding on any party.

D. Clarifications requested by bidders must be in writing not less than 7 days before date set for receipt of bids. The reply will be in the form of an Addendum, a copy of which will be forwarded to known recipients. Said notice shall not be construed as a restriction against discussion of Bid Documents, or an elimination of the Bidders responsibility to notify Architect of any ambiguity inconsistency or errors.

3.06 PRODUCT/ASSEMBLY/SYSTEM SUBSTITUTIONS

A. General Requirements for Substitution Requests:
   1. Project Manual establishes standards for products, assemblies, and systems.
   2. Submit requests only for elements for which substitution is specifically allowed in the Project Manual.

3. Provide sufficient information to determine acceptability of proposed substitutions.
4. Provide complete information on required revisions to other work to accommodate each proposed substitution.

B. Substitution Request Time Restrictions:
1. Where the Bid Documents stipulate a particular product, substitutions will be considered up to 7 days before receipt of bids.

C. Substitution Request Form:
1. See 01 25 00 Substitution Procedures for procedural requirements for substitutions.

D. Review and Acceptance of Request:
1. Architect -may approve the proposed substitution and will issue an Addendum to known bidders.
2. For approved substitutions, include representation of changes in the bid, if any, required in the work and changes to Contract Time and Contract Sum to accommodate such substitutions. A later claim by the bidder for an addition to the Contract Time or Contract Sum because of changes in work necessitated by use of substitutions will not be considered.
3. Each submission shall provide sufficient information, as required to determine acceptability of said products.
4. Provide complete information of any and all required revisions, to any related Work, as required to accommodate each proposed substitution.
5. Provide all products, as specified, unless substitutions have been submitted in this manner and approved.
6. No substitutions will be considered after Co~~n~~ntract has been awarded, unless specifically provided within the Contract Documents.

E. See also Section 01 60 00 Product Requirements for additional information.

SITE ASSESSMENT

4.01 SITE EXAMINATION

A. Examine the project site before submitting a bid.

B. A visit to the project site has been arranged for bidders as follows: In conjunction with the pre-bid meeting.

4.02 PREBID CONFERENCE

A. A bidders' conference has been scheduled for October 28, 2026 at 9:00 am at Meramec Ambulance District Station No. 3 – Apparatus Bay, 7390 Highway O, Robertsville, MO 63072.

B. All general contract and subcontract, bidders and suppliers are invited.

C. Representatives of Architect and Owner will be in attendance.

D. Summarized minutes of this meeting will be circulated to attendees. These minutes will form part of Contract Documents.

E. Information relevant to the Bid Documents will be recorded in an Addendum, issued to Bid Document recipients which are known to the Architect.

QUALIFICATIONS

5.01 EVIDENCE OF QUALIFICATIONS

A. Complete the questionnaire that is included in Section 00 41 00 Bid Form.

B. To demonstrate qualification for performing the Work of this Contract, bidders may be requested to submit additional information such as written evidence of financial position, previous experience, and current commitments.

5.02 SUBCONTRACTORS/SUPPLIERS/OTHERS

A. Complete the list of proposed subcontractors that is included Section 00 41 01 Supplemental Bid Information.

B. Owner reserves the right to reject a proposed subcontractor for reasonable cause.

BID SUBMISSION

6.01 SUBMISSION PROCEDURE

A. Bidders shall be solely responsible for the delivery of their bids in the manner and time prescribed.

B. Submit of the executed offer on the Bid Forms provided, signed and sealed with the required security in a closed opaque envelope, clearly identified with bidder's name, project name and Owner's name on the outside.

C. Improperly completed information, irregularities in security deposit, may be cause not to open the Bid Form envelope and declare the bid invalid or informal.

D. An abstract summary of submitted bids will be made available to all bidders following bid opening.

E. Prior to submitting Bid Documents, each bidder shall ascertain that they have received all previously issued Addenda and shall acknowledge receipt of same, within Bid Form.

6.02 BID INELIGIBILITY

A. Bids that are unsigned, improperly signed or sealed, conditional, illegible, obscure, contain arithmetical errors, erasures, alterations, or irregularities of any kind, may at the discretion of the Owner, be declared unacceptable.

B. Bid Forms, Appendices, and enclosures that are improperly prepared may, at the discretion of Owner, be declared unacceptable.

C. Failure to provide security deposit, bonding or insurance requirements may, at the discretion of Owner, be waived.

BID ENCLOSURES/REQUIREMENTS

7.01 SECURITY DEPOSIT

A. Bids shall be accompanied by a security deposit as follows:
   1. Bid Bond of a sum no less than 5 percent of the Bid Amount on AIA A310 Bid Bond Form.

B. Endorse the Bid Bond in the name of the Owner as obligee, signed and sealed by the principal (Contractor) and surety.

C. The security deposit will be returned after delivery to the Owner of the required Performance and Payment Bond(s) by the accepted bidder.

D. Include the cost of bid security in the Bid Amount.

E. After a bid has been accepted, all securities will be returned to the respective bidders and other requested enclosures.

F. If no contract is awarded, all security deposits will be returned.

7.02 PERFORMANCE ASSURANCE

A. Accepted Bidder: Provide a Performance and Payment bond as described in 00 52 03 – Exhibit A, Insurance and Bonds.

B. Include the cost of Performance and Payment Bonds in the Bid Amount.

7.03 INSURANCE

A. Provide an executed "Undertaking of Insurance" on a standard form provided by the insurance company stating their intention to provide insurance to the bidder in accordance with the insurance requirements of Contract Documents.

7.04 BID FORM REQUIREMENTS

A. Complete all requested information in the Bid Form and Appendices.

B. Taxes: Refer to Document 00 52 01 - General Conditions, Document A201-2017 for inclusion and exclusion of taxes.

7.05 BID FORM SIGNATURE

A. The Bid Form shall be signed by the bidder, as follows:
   1. Sole Proprietorship: Signature of sole proprietor in the presence of a witness who will also sign. Insert the words "Sole Proprietor" under the signature. Affix seal.
   2. Partnership: Signature of all partners in the presence of a witness who will also sign. Insert the word "Partner" under each signature. Affix seal to each signature.
   3. Corporation: Signature of a duly authorized signing officer(s) in their normal signatures. Insert the officer's capacity in which the signing officer acts, under each signature. Affix the corporate seal. If the bid is signed by officials other than the president and secretary of the company, or the president/secretary/treasurer of the company, a copy of the by-law resolution of their board of directors authorizing them to do so, must also be submitted with the Bid Form in the bid envelope.
   4. Joint Venture: Each party of the joint venture shall execute the Bid Form under their respective seals in a manner appropriate to such party as described above, similar to the requirements of a Partnership.

7.06 ADDITIONAL BID INFORMATION

A. Submit the following Supplements within 24 hours after bid submission:
   1. Document 00 41 01-Supplemental Bid Information.

7.07 SELECTION AND AWARD OF ALTERNATES

A. Indicate variation of bid price for Alternates listed on the Bid Form. Unless otherwise indicated, indicate Alternates as a difference in bid price by adding to or deducting from the base bid price.

B. Owner reserves the right to accept Alternates in order or combination to determine the final scope and contract amount to be awarded.

OFFER ACCEPTANCE/REJECTION

8.01 DURATION OF OFFER

A. Bids shall remain open to acceptance and shall be irrevocable for a period of sixty (60) days after the bid closing date.

8.02 ACCEPTANCE OF OFFER

A. Owner reserves the right to accept or reject any or all offers.

B. Owner intends to award a Contract based on Bid that, in Owner's sole discretion, is the best, most responsible and the most responsive Bid, that best meets the interests and requirements of Owner. Owner reserves the right, within Owner's sole discretion, to reject any and all bids, waive technicalities or deficiencies in any or all bids, negotiate with any or all bidders or any others for more favorable terms or prices and to award a Contract to other than the Bidder submitting the lowest cost Bid Proposal, with or without negotiation. Owner reserves the right to not open a sole Bid.

C. Owner intends to award a Contract to the Bidder who agrees to award Work and select Subcontractors, who agree to award work, to all Contractors and Subcontractors that adhere to and award Work based upon historical craft jurisdiction.

D. Owner intends to make any investigation of a Bidder, they deem necessary, as required to determine if Bidders have had any prevailing wage violations within the last five (5) years. Bidders shall assist in furnishing said information, regarding their status upon this reasonable request. Owner reserves the right to reject any Bid, if evidence submitted by, or investigation of Bidder fails to satisfy Owner that Bidder has provided services without prevailing wage violations within the last five (5) years.

E. Owner intends to make any investigation of a Bidder, they deem necessary to determine the ability of a Bidder to perform the Work. Bidders shall assist in furnishing said information, regarding their qualifications upon this reasonable request. Owner reserves the right to reject any Bid, if evidence submitted by, or other investigation of, the Bidder fails to satisfy the Owner

that the Bidder has the proper qualifications to perform the Work in accordance with the Contract.

F. After acceptance by Owner, Architect on behalf of Owner, will issue to the successful bidder, a written letter of Contract Award.

END OF SECTION

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SITEX Project No: 23490

HAZARDOUS MATERIALS SURVEY

Of

Meramec Ambulance District Station #1
429 East Osage Street
Pacific, Missouri

Prepared for:

Meramec Ambulance District
3279 Highway 100
Villa Ridge, Missouri 63089

Prepared by:

SITEX, Inc.
1525 South Broadway
St. Louis, Missouri 63104

December 26, 2025

SITEX Est. 1987

Your Sole Provider of Environmental Health & Safety Services

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EXECUTIVE SUMMARY

SITEX, Inc. (SITEX) completed a hazardous-materials survey of Meramec Ambulance District Station #1, located at 429 East Osage Street, Pacific, Missouri. The objective was to identify asbestos-containing material (ACM), lead-based paint (LBP), and universal wastes that could be affected by planned renovation or demolition.

• Bulk samples of suspect materials were analyzed for asbestos via polarized light microscopy (PLM).

• Painted surfaces were screened for lead with an X-ray fluorescence (XRF) analyzer.

• An inventory of universal wastes—including fire extinguishers, smoke alarms, fluorescent fixtures and lamps, exit signs, thermostats, and carbon-monoxide detectors—was compiled; estimated quantities appear in the Conclusions and Recommendations section.

SURVEY INTRODUCTION/SCOPE OF WORK

On 17 December 2025, SITEX personnel Robert H. Hill II and Mackenzie Wagner performed the field survey. Station #1 is a single-story, steel-frame structure on a concrete slab. The roof has an asphalt-shingle system installed in spring 2024. Interior ceilings are painted plaster; walls are painted drywall or concrete block; floors are carpet, resilient floor tile, or bare concrete.

ASBESTOS SURVEY SUMMARY TABLE DEFINITIONS

Sample Number

A number is assigned to each sample to track results. A homogenous area is defined as an area of material that is uniform in color, texture, and age. Each homogenous area was given a distinct letter designation. An example of the numbering sequence is as follows:

23490-FT-01C

23490 = SITEX project number
FT = Floor tile
1 = First sample taken of material description
C = Homogeneous area designation (3rd identified homogeneous area)

Sample Description

Describes the bulk sample material collected.

Approximate Quantity

Approximate quantity of ACM per sample location.

Abbreviations

AI = Attic Insulation
CB = Cove Base
DI = Duct Insulation
DW = Drywall
FT = Floor Tile

Condition

Condition of the suspect material at the time of this inspection. This is based on the discretion of the inspector. The condition categories are as follows:

Good = no visible damage
Fair = minor damage
Poor = major damage, needs action as soon as possible

Accessibility

Indicates how accessible the suspect material is and to what group of people. The categories are as follows:

Low = material was inaccessible, or access was very limited
Moderate = material was only accessible to maintenance personnel
High = material was accessible to the general public

Friability (Non-Friable versus Friable)

A designation to indicate friability (extent to which material, when dry, may be crushed, crumbled, or reduced to powder with hand pressure):

Friability (Non-Friable versus Friable) Continued

No = non-friable
Yes = friable

Bulk Sample Results

Positive - > 1% Asbestos
Negative - < or = 1% Asbestos

The United States Environmental Protection Agency (U.S. EPA) guidelines for classifying asbestos containing material is any material that contains equal to or greater than one percent (1%) asbestos by visual estimated weight percent (% weight).

ASBESTOS SURVEY SUMMARY

SITEX collected up to three bulk samples of each homogeneous suspect asbestos containing building materials (ACBM) which were observed throughout the interior or exterior of the structure.

Bulk samples were collected in discrete locations or in areas which already had sustained water and/or physical damage.

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE DESCRIPTION	APPROXIMATE QUANTITY	CONDITION	ACCESSIBILITY	FRIABILITY	SAMPLE RESULTS
23490-FT-01A	Office	Yellow/beige Floor tile	N/A	Good	High	No	None Detected
23490-FT-01A	Office	Yellow/beige Floor tile (layer 2)	N/A	Good	Low	No	None Detected
23490-FT-01B	Hallway	Yellow/beige Floor tile	N/A	Good	High	No	None Detected
23490-FT-01B	Hallway	Yellow/beige Floor tile (layer 2)	N/A	Good	Low	No	None Detected
23490-FT-01C	Kitchen	Yellow/beige Floor tile	N/A	Good	High	No	None Detected
23490-FT-01C	Kitchen	Yellow/beige Floor tile (layer 2)	N/A	Good	Low	No	None Detected
23490-FT-02A	Storage room	Grey Floor tile	N/A	Good	High	No	None Detected
23490-FT-02A	Storage room	Grey Floor tile (Layer 2)	N/A	Good	Low	No	None Detected
23490-FT-02A	Storage room	Grey Floor tile (Layer 3)	N/A	Good	Low	No	None Detected
23490-FT-02B	Storage room	Grey Floor tile	N/A	Good	High	No	None Detected
23490-FT-02B	Storage room	Grey Floor tile (Layer 2)	N/A	Good	Low	No	None Detected
23490-FT-02B	Storage room	Grey Floor tile (Layer 3)	N/A	Good	Low	No	None Detected
23490-FT-02C	Storage room	Grey Floor tile	N/A	Good	High	No	None Detected
23490-FT-02C	Storage room	Grey Floor tile (Layer 2)	N/A	Good	Low	No	None Detected
23490-FT-02C	Storage room	Grey Floor tile (Layer 3)	N/A	Good	Low	No	None Detected
23490-FT-03A	Supply Closet	Blue/grey Floor tile	N/A	Fair	High	No	None Detected
23490-FT-03A	Supply Closet	Blue/grey Floor tile (Layer 2)	N/A	Fair	Low	No	None Detected

23490-FT-03B	Supply Closet	Blue/grey Floor tile	N/A	Fair	High	No	None Detected
23490-FT-03B	Supply Closet	Blue/grey Floor tile (Layer 2)	N/A	Fair	Low	No	None Detected
23490-FT-03C	Supply Closet	Blue/grey Floor tile	N/A	Fair	High	No	None Detected
23490-FT-03C	Supply Closet	Blue/grey Floor tile (Layer 2)	N/A	Fair	Low	No	None Detected
23490-CB-04A	Office	Blue Cove base	N/A	Good	High	No	None Detected
23490-CB-04A	Office	Blue Cove base (layer 2)	N/A	Good	Low	No	None Detected
23490-CB-04B	Kitchen	Blue Cove base	N/A	Good	High	No	None Detected
23490-CB-04B	Kitchen	Blue Cove base (layer 2)	N/A	Good	Low	No	None Detected
23490-CB-04C	Bathroom	Blue Cove base	N/A	Good	High	No	None Detected
23490-CB-04C	Bathroom	Blue Cove base (layer 2)	N/A	Good	Low	No	None Detected
23490-CB-05A	Storage room	Black Cove base	N/A	Good	High	No	None Detected
23490-CB-05A	Storage room	Black Cove base (Layer 2)	N/A	Good	Low	No	None Detected
23490-CB-05B	Storage room	Black Cove base	N/A	Good	High	No	None Detected
23490-CB-05B	Storage room	Black Cove base (Layer 2)	N/A	Good	Low	No	None Detected
23490-CB-05C	Storage room	Black Cove base	N/A	Good	High	No	None Detected
23490-CB-05C	Storage room	Black Cove base (Layer 2)	N/A	Good	Low	No	None Detected
23490-DW-06A	Storage room	White drywall	N/A	Good	High	Yes	None Detected
23490-DW-06A	Storage room	White drywall (layer 2)	N/A	Good	Low	Yes	None Detected

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE DESCRIPTION	APPROXIMATE QUANTITY	CONDITION	ACCESSIBILITY	FRIABILITY	SAMPLE RESULTS
23490-DW-06B	Office	White drywall	N/A	Good	High	Yes	None Detected
23490-DW-06B	Office	White drywall (layer 2)	N/A	Good	Low	Yes	None Detected
23490-DW-06C	Bedroom	White drywall	N/A	Good	High	Yes	None Detected
23490-DW-06C	Bedroom	White drywall (layer 2)	N/A	Good	Low	Yes	None Detected
23490-DW-07A	Storage Room	Blue Painted Drywall	N/A	Good	High	Yes	None Detected
23490-DW-07B	Storage Room	Blue Painted Drywall	N/A	Good	High	Yes	None Detected
23490-DW-07C	Storage Room	Blue Painted Drywall	N/A	Good	High	Yes	None Detected
23490-DI-08A	Garage Mezzanine	White Duct Insulation	N/A	Good	Moderate	Yes	None Detected
23490-DI-08A	Garage Mezzanine	White Duct Insulation (Layer 2)	N/A	Good	Low	Yes	None Detected
23490-DI-08B	Garage Mezzanine	White Duct Insulation	N/A	Good	Moderate	Yes	None Detected
23490-DI-08B	Garage Mezzanine	White Duct Insulation (Layer 2)	N/A	Good	Low	Yes	None Detected
23490-DI-08C	Garage Mezzanine	White Duct Insulation	N/A	Good	Moderate	Yes	None Detected
23490-DI-08C	Garage Mezzanine	White Duct Insulation (Layer 2)	N/A	Good	Low	Yes	None Detected
23490-AI-09A	Attic	Orange attic insulation	N/A	Good	Moderate	Yes	None Detected
23490-AI-09B	Attic	Orange attic insulation	N/A	Good	Moderate	Yes	None Detected

23490-AI-09C	Attic	Orange attic insulation	N/A	Good	Moderate	Yes	None Detected

Notes:
Listed items in **Bold** denote asbestos containing building materials (ACBMs).
The United States Environmental Protection Agency (U.S. EPA) has defined an asbestos material to contain equal to or greater than one percent asbestos.
Occupational Safety and Health Administration (OSHA) has determined asbestos detected at any level is a potential health exposure hazard.
Bulk samples were analyzed using Polarized Light Microscopy (PLM) by a trained McCrone Research Institute microscopist.
PLM Methodology using United States Environmental Protection Agency (U.S. EPA) EPA/600/R-93/116 based on a total visual estimated weight percentage.

Bulk samples ending with 1/2/3 denote each sample collected per homogeneous sample set.
Negative = A non-regulated material containing less than one percent asbestos (<1%).
Positive = A regulated material containing asbestos equal to or greater than one percent (>1%).
SF = Square feet.
LF = Linear feet.
N/A = Not applicable.

ASBESTOS SAMPLING AND ANALYTICAL PROCEDURES

Random bulk samples, representative of the suspect asbestos-containing building materials of each homogeneous area, were collected. Representative sampling is based on the following criteria:

1. The distribution of the suspect material throughout the homogeneous area.
2. The suspect material's physical characteristics and application.
3. Random sampling patterns determined for each homogeneous area.

Suspicions, sampled and analyzed, should be considered to be representative of materials in each homogeneous area if:

1. They exhibit similar physical characteristics. (i.e. color, texture).
2. The application of the sampled material can be correlated to the application of unsampled material by physical appearance and time of application.

All bulk samples collected were analyzed using the Environmental Protection Agency's Method for the Detection of Asbestos in Bulk Samples (EPA 600/M4-82020, December 1982) and the McCrone Research Institute's The Asbestos Particle Atlas as method references.

The bulk samples were collected on December 17, 2025. Robert H. Hill II and Mackenzie Wagner of SITEX collected 27 bulk samples for asbestos analysis. SITEX was responsible for determining if asbestos was present on the exterior and interior of the structure and if present, provide estimated quantities of asbestos materials found. The samples, along with the proper Chain-of-Custody forms, were sent to SITEX, Inc. (SITEX) for bulk sample analysis. The analysis of the bulk samples was performed on December 19 through December 22, 2025. A copy of the Lab Analysts credentials is included in this report as Appendix E – Laboratory and Accreditations and Individual Certifications.

XRF LEAD-BASED PAINT SURVEY SUMMARY

The XRF lead paint survey shots are included in this report and summarized in Appendix C – XRF Lead Paint Summary. An X-ray Fluorescence analyzer spectrum (XRF) was used for the lead survey. The InnoV-X Systems Delta Standard (model DS-2000, Serial #501736) was calibrated by the manufacturer. The XRF was calibrated before and after in the field. Appendix C - XRF Lead Paint Summary Log Sheets are attached.

Assumptions

SITEX assumed that pre-manufactured, anodized or baked-on surfaces were not LBP due to the paint composition and processes. Therefore, no shots were taken of these building components.

Pre-manufactured items are as follows but not limited to fascia/soffit, anodized doors/windows, interior doors, guttering, and stationary items.

XRF Lead Shot Sample Identification and Documentation

Each lead shot taken was immediately recorded onto the Lead Paint Survey field log sheet. The following paragraphs provide an explanation of the terms used on the lead paint survey log sheet.

Lead Survey Paint Field Log Sheet

The lead paint survey field log sheet includes the shot number, shot location, a description of the building component shot, its condition, paint substrate, paint color, XRF shot results, positive/negative, and estimated quantity. The following paragraphs provide an explanation of the above-mentioned terms used on the lead paint survey data sheet.

Shot Number

The shot number is a three-digit sequential number beginning with 001. The shot number includes pre- and post-calibration shots, and quality control shots (duplicates or re-takes). An example of the numbering sequence is as follows:

001 = First shot taken for the lead survey

Shot Location

Describes the shot's physical location of the painted building component within the facility exterior or interior.

Component

Describes the painted building component material being tested.

Condition

Describes the physical condition of the building component material. Two physical conditions exist which include intact, or deterioration as described in these categories.

Intact: Exterior surfaces with large surface areas with no deteriorated paint.

Intact: Interior surfaces with large surface areas with no deteriorated paint.

Intact: Interior and Exterior components with small surface area with no deteriorated paint.

Deteriorated: Exterior components with large surface area more than 10 square feet of deteriorated paint or, Interior components with large surface more than 2 square feet of deteriorated paint or interior and exterior components with small surface area more than 10 percent (10%) of the total surface area of the component.

Substrate

Defines the composition of the material (concrete, metal, wood, plastic) to which the paint is adhered to.

Color

Provides the physical description of the color of the painted building component. Color helps the lead-risk assessor determine homogenous areas (similar painting history) and can assist with certain types of older paint known to contain lead (battleship gray, red).

Results

Shows the units of measure for the painted building component. For purposes of this survey, the XRF direct-reading instrument displays the lead content in milligrams per square centimeter (mg/cm^2). This unit of measure can be directly compared to the federal HUD guideline definition of LBP.

Positive/Negative

The determination of whether a painted component is positive or negative is given by the XRF direct-reading measurement displayed in mg/cm^2. Painted building components which are equal to (=) or greater than (>) 1.0 mg/cm^2 are considered to be lead-based paint (LBP). LBP is regulated under the United States Environmental Protection Agency (USEPA), HUD federal regulatory lead standards, and State of Illinois lead regulations.

Painted building components which do not exceed (<) 1.0 mg/cm^2 are not considered to be LBP and are not regulated. However, the Occupational Safety and Health Administration

(OSHA) regulates exposure to workers. OSHA considers any amount of lead in a painted building component to be a lead-containing material (LCM). According to OSHA, LCMs have the potential to create exposure hazards to workers.

For purposes of this survey the following terms will be used to represent the following:

Positive: Painted component which contains > or = 1.0 mg/cm^2 lead content.
Negative: Painted component which contains < 1.0 mg/cm^2 lead content.

Painted components which are listed as positive are LBP; these materials are regulated.

Painted components which are negative are LCM; these materials are non-regulated.

Quantity

The approximate estimated quantities of the lead building component are expressed as square feet (SF), linear feet (LF), or each (Each).

Pre- and post-calibration shots do not have a quantity associated with these shots.

Regulatory Guidance

Lead-based paint is considered 1.0 milligrams per square centimeter (mg/cm^2) for the XRF instrumentation, or 0.5 lead percent by weight (% weight) if a physical lead paint chip sample had been collected.

Lead testing combinations were followed in accordance with the federal United States Department of Urban and Housing Development (HUD) guidelines. The XRF instrument was pre- and post-calibrated using a manufactured coin, a negative plastic-coated lead template (SRM 2570), and a positive plastic-coated lead template (SRM 2573).

According to the Resource Conservation Recovery Act (RCRA) for Lead-Based Paint (LBP) renovation/demolition activities, general construction debris which contain lead must be analyzed by the Toxicity Characteristic Leaching Procedure (TCLP) to determine toxicity. Construction debris that exceeds 5 parts per million (ppm) will be disposed of as hazardous waste. Construction debris that is below 5 ppm is considered to be non-hazardous and be disposed of into a sanitary landfill.

The Occupational Safety and Health Administration (OSHA) has determined that any level of lead in a substance is defined as a Lead Containing Material (LCM). When disturbing LCMs the contractor is held to specific work practices and employee protection in accordance with the Lead in Construction Standard 20CFR 1926.62.

LBP PAINT SAMPLING AND ANALYTICAL PROCEDURES

The direct-reading shots were taken on December 17, 2025. State of Missouri Lead Risk-Assessor Robert Hill II took a total of 42 shots. SITEX did not collect paint chip samples because the direct-reading instrument had no inconclusive readings. SITEX identified 0 painted building components which were identified with LBP on the interior and exterior of the structure. In Appendix C – XRF Lead Paint Summary Log Sheets are attached.

UNIVERSAL HAZARDOUS MATERIALS INVENTORY

SITEX took an inventory of hazardous materials which were observed on the interior of the structure. The inventory is summarized below with the materials identified.

Material Identification	***Location***	***Estimated Quantities***
Fire Extinguisher	Throughout	4
Smoke Alarm	Throughout	14
Thermostat	Kitchen	1
Exit Signs	Throughout	6
Fire Alarms	Throughout	14
Carbon Monoxide Detectors	Kitchen/Living	2
Bulbs (Candolescent)	Throughout	22
Fluorescent Bulbs	Throughout	188

CONCLUSIONS AND RECOMMENDATIONS

SITEX performed an asbestos and LBP survey of Meramec Ambulance Sation #1 located at 429 East Osage Street in Villa Ridge, Missouri, in preparation of planned renovation. SITEX presents the following conclusions and recommendations.

Identified Asbestos Containing Materials (ACM)
Based on the bulk samples collected and review of laboratory analytical results, no ACM was identified on the interior of the building.

LBP
Lead-based paints were not found to be present on the interior and exterior of the Subject Property.

Universal Hazardous Materials

SITEX recommends that these materials be properly inspected for proper working order and should remain on site in the event of potential smoke or fire occurrences.

SURVEY TEAM

The representative for SITEX Environmental, Inc. conducting the survey included SITEX personnel Robert H. Hill II and Mackenzie Wagner. Mr. Hill is accredited in Missouri as an asbestos inspector and Lead Risk Assessor. Mr. Hill's certifications are included in Appendix E – Laboratory Accreditations and Individual Certifications of this report.

Limitations

Access to the exterior roof was limited by visual means. The roof was constructed in 2000 and fully replaced in spring of 2024.

Disclaimer

These results do not imply nor deny conditions that may have existed prior to our sampling or previous inspections. This survey and sampling were performed in a thorough and professional manner consistent with industry standards.

The ACM and LBP survey are representative of bulk samples collected and XRF shots taken at the time of the survey. SITEX performed limited destructive sampling. The analytical results are valid only for the bulk samples collected and the XRF shots taken.

If during renovation and/or demolition activities, additional suspect asbestos and/or lead is uncovered, SITEX recommends that a State of Missouri licensed asbestos or lead inspector collect a bulk sample for analysis to determine the presence of asbestos or taken additional shots to determine the presence of lead.

The Asbestos and Lead-Based Paint (LBP) Survey Team consisted of the following State of Missouri licensed individuals.

Surveyed by:



Robert Hill II
Missouri Asbestos Inspector
Missouri Certificate #7118062124MOIR2164

Missouri Lead Risk Assessor
Missouri Certificate #010517-200133036

APPENDICES

Appendix A – SITEX Laboratory PLM Analysis Reports
Appendix B – Photograph Log
Appendix C – XRF Lead Paint Summary Log Sheets
Appendix D – Laboratory Accreditation and Individual Certifications

APPENDIX A

SITEX LABORATORY PLM ANALYSIS REPORT

SITEX Est. 1987

1525 South Broadway
St. Louis, Missouri 63104
Phone: (314) 421-0600
Fax: (314) 421-0234

Your Sole Provider of Environmental Health & Safety Services

POLARIZED LIGHT MICROSCOPY ANALYSIS REPORT

(Method : EPA/600/R-93/116)

Project No. : 23490 | Received Date: 12/18/2025 | Customer: Meramec Ambulance District
Report No. : 25-12-0150 | Analyzed Date: 12/19/2025-12/22/2025 | Project Name: Station #1
Contact : Dustin Roberts | Customer PO: N/A | Project Address: 429 East Osage Street Pacific, MO

Sample Info		Client Provided Information		Analytical Info			Non-Asbestos		Asbestos
Sample ID	Lab ID	Sample Description	Material Type	Appearance	Texture	Color	% Non-Fibrous	% Fibrous	% Type
23490-FT-01A	1295	Yellow/Beige Floor Tile (Layer 1)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Beige	>95% Other	<1% Cellulose	None Detected
23490-FT-01A	1295	Yellow/Beige Floor Tile (Layer 2)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Gray	>95% Other	<1% Cellulose	None Detected
23490-FT-01B	1296	Yellow/Beige Floor Tile (Layer 1)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Beige	>95% Other	<1% Cellulose	None Detected
23490-FT-01B	1296	Yellow/Beige Floor Tile (Layer 2)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Gray	>95% Other	<1% Cellulose	None Detected
23490-FT-01C	1297	Yellow/Beige Floor Tile (Layer 1)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Beige	>95% Other	<1% Cellulose	None Detected
23490-FT-01C	1297	Yellow/Beige Floor Tile (Layer 2)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Gray	>95% Other	<1% Cellulose	None Detected
23490-FT-02A	1298	Gray Floor Tile (Layer 1)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Gray	>95% Other	<1% Cellulose	None Detected
23490-FT-02A	1298	Gray Floor Tile (Layer 2)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Gray	>95% Other	<1% Cellulose	None Detected
23490-FT-02A	1298	Gray Floor Tile (Layer 3)	Miscellaneous	Heterogeneous, Non-Fibrous	Tacky	Black	>95% Other	1-5% Cellulose	None Detected
23490-FT-02B	1299	Gray Floor Tile (Layer 1)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Gray	>95% Other	<1% Cellulose	None Detected
23490-FT-02B	1299	Gray Floor Tile (Layer 2)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Gray	>95% Other	<1% Cellulose	None Detected
23490-FT-02B	1299	Gray Floor Tile (Layer 3)	Miscellaneous	Heterogeneous, Non-Fibrous	Tacky	Black	90-95% Other	1-5% Cellulose, 1-5% Synthetic	None Detected
23490-FT-02C	1300	Gray Floor Tile (Layer 1)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Gray	>95% Other	<1% Cellulose	None Detected
23490-FT-02C	1300	Gray Floor Tile (Layer 2)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Gray	>95% Other	<1% Cellulose	None Detected

ANALYST: E Nelson

REVIEWED BY: Robert L Hill III

Samples 51 SAMPLES ANALYZED

Laboratory Disclaimer:

The test data only pertains to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed in this report.
SITEX maintains liability limited to cost of analysis.
Interpretation and uses of test results are the responsibility of the client.
This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by SITEX.
SITEX participates in the American Industrial Hygiene Association (AIHA) Bulk Asbestos Proficiency Analytical Testing (BAPAT) Program , Participant Number 286604.

SITEX Est. 1987

1525 South Broadway
St. Louis, Missouri 63104
Phone: (314) 421-0600
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(Method : EPA/600/R-93/116)

Project No. : 23490 | Received Date: 12/18/2025 | Customer: Meramec Ambulance District
Report No. : 25-12-0150 | Analyzed Date: 12/19/2025-12/22/2025 | Project Name: Station #1
Contact : Dustin Roberts | Customer PO: N/A | Project Address: 429 East Osage Street Pacific, MO

Sample Info		Client Provided Information		Analytical Info			Non-Asbestos		Asbestos
Sample ID	Lab ID	Sample Description	Material Type	Appearance	Texture	Color	% Non-Fibrous	% Fibrous	% Type
23490-FT-02C	1300	Gray Floor Tile (Layer 3)	Miscellaneous	Heterogeneous, Non-Fibrous	Tacky	Black	90-95% Other	1-5% Cellulose, 1-5% Synthetic	None Detected
23490-FT-03A	1301	Blue/Gray Floor Tile (Layer 1)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Gray	>95% Other	<1% Cellulose	None Detected
23490-FT-03A	1301	Blue/Gray Floor Tile (Layer 2)	Miscellaneous	Heterogeneous, Non-Fibrous	Rough	Black	>95% Other	1-5% Cellulose	None Detected
23490-FT-03B	1302	Blue/Gray Floor Tile (Layer 1)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Gray	>95% Other	<1% Cellulose	None Detected
23490-FT-03B	1302	Blue/Gray Floor Tile (Layer 2)	Miscellaneous	Heterogeneous, Non-Fibrous	Rough	Black	>95% Other	1-5% Cellulose	None Detected
23490-FT-03C	1303	Blue/Gray Floor Tile (Layer 1)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Gray	>95% Other	<1% Cellulose	None Detected
23490-FT-03C	1303	Blue/Gray Floor Tile (Layer 2)	Miscellaneous	Heterogeneous, Non-Fibrous	Rough	Black	>95% Other	1-5% Cellulose	None Detected
23490-CB-04A	1304	Blue Covebase (Layer 1)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Blue	>95% Other	1-5% Cellulose	None Detected
23490-CB-04A	1304	Blue Covebase (Layer 2)	Miscellaneous	Heterogeneous, Non-Fibrous	Rough	Yellow	>95% Other	1-5% Cellulose	None Detected
23490-CB-04B	1305	Blue Covebase (Layer 1)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Blue	>95% Other	1-5% Cellulose	None Detected
23490-CB-04B	1305	Blue Covebase (Layer 2)	Miscellaneous	Heterogeneous, Non-Fibrous	Rough	Yellow	>95% Other	1-5% Cellulose	None Detected
23490-CB-04C	1306	Blue Covebase (Layer 1)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Blue	>95% Other	1-5% Cellulose	None Detected
23490-CB-04C	1306	Blue Covebase (Layer 2)	Miscellaneous	Heterogeneous, Non-Fibrous	Rough	Yellow	>95% Other	1-5% Cellulose	None Detected
23490-CB-05A	1307	Black Covebase (Layer 1)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Black	>95% Other	<1% Cellulose	None Detected

ANALYST: E Nelson

REVIEWED BY: Robert H Hill II

Samples 51 SAMPLES ANALYZED

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SITEX maintains liability limited to cost of analysis.
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SITEX participates in the American Industrial Hygiene Association (AIHA) Bulk Asbestos Proficiency Analytical Testing (BAPAT) Program , Participant Number 286604.

SITEX Est. 1987

1525 South Broadway
St. Louis, Missouri 63104
Phone: (314) 421-0600
Fax: (314) 421-0234

Your Sole Provider of Environmental Health & Safety Services

POLARIZED LIGHT MICROSCOPY ANALYSIS REPORT

(Method : EPA/600/R-93/116)

Project No. : 23490 | Received Date: 12/18/2025 | Customer: Meramec Ambulance District
Report No. : 25-12-0150 | Analyzed Date: 12/19/2025-12/22/2025 | Project Name: Station #1
Contact : Dustin Roberts | Customer PO: N/A | Project Address: 429 East Osage Street Pacific, MO

Sample Info		Client Provided Information		Analytical Info			Non-Asbestos		Asbestos
Sample ID	Lab ID	Sample Description	Material Type	Appearance	Texture	Color	% Non-Fibrous	% Fibrous	% Type
23490-CB-05A	1307	Black Covebase (Layer 2)	Miscellaneous	Heterogeneous, Non-Fibrous	Rough	Yellow	>95% Other	1-5% Cellulose	None Detected
23490-CB-05B	1308	Black Covebase (Layer 1)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Black	>95% Other	<1% Cellulose	None Detected
23490-CB-05B	1308	Black Covebase (Layer 2)	Miscellaneous	Heterogeneous, Non-Fibrous	Rough	Yellow	>95% Other	1-5% Cellulose	None Detected
23490-CB-05C	1309	Black Covebase (Layer 1)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Black	>95% Other	<1% Cellulose	None Detected
23490-CB-05C	1309	Black Covebase (Layer 2)	Miscellaneous	Heterogeneous, Non-Fibrous	Rough	Yellow	>95% Other	1-5% Cellulose	None Detected
23490-DW-06A	1310	White Drywall (Layer 1)	Miscellaneous	Heterogeneous, Mixed	Rough	White	>95% Other	1-5% Cellulose	None Detected
23490-DW-06A	1310	White Drywall (Layer 2)	Miscellaneous	Heterogeneous, Mixed	Fibrous	Brown	1-5% Other	>95% Cellulose	None Detected
23490-DW-06B	1311	White Drywall (Layer 1)	Miscellaneous	Heterogeneous, Mixed	Rough	White	>95% Other	1-5% Cellulose	None Detected
23490-DW-06B	1311	White Drywall (Layer 2)	Miscellaneous	Heterogeneous, Mixed	Fibrous	Brown	1-5% Other	>95% Cellulose	None Detected
23490-DW-06C	1312	White Drywall (Layer 1)	Miscellaneous	Heterogeneous, Mixed	Rough	White	>95% Other	1-5% Cellulose	None Detected
23490-DW-06C	1312	White Drywall (Layer 2)	Miscellaneous	Heterogeneous, Mixed	Fibrous	Brown	1-5% Other	>95% Cellulose	None Detected
23490-DW-07A	1313	Blue Painted Drywall	Miscellaneous	Homogeneous, Non-Fibrous	Rough	White	>95% Other	1-5% Cellulose	None Detected
23490-DW-07B	1314	Blue Painted Drywall	Miscellaneous	Homogeneous, Non-Fibrous	Rough	White	>95% Other	1-5% Cellulose	None Detected
23490-DW-07C	1315	Blue Painted Drywall	Miscellaneous	Homogeneous, Non-Fibrous	Rough	White	>95% Other	1-5% Cellulose	None Detected

ANALYST: E Nelson

REVIEWED BY: Robert H Hill III

Samples 51 SAMPLES ANALYZED

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SITEX Est. 1987

1525 South Broadway
St. Louis, Missouri 63104
Phone: (314) 421-0600
Fax: (314) 421-0234

Your Sole Provider of Environmental Health & Safety Services

POLARIZED LIGHT MICROSCOPY ANALYSIS REPORT

(Method : EPA/600/R-93/116)

Project No. : 23490 | Received Date: 12/18/2025 | Customer: Meramec Ambulance District
Report No. : 25-12-0150 | Analyzed Date: 12/19/2025-12/22/2025 | Project Name: Station #1
Contact : Dustin Roberts | Customer PO: N/A | Project Address: 429 East Osage Street Pacific, MO

Sample Info		Client Provided Information		Analytical Info			Non-Asbestos		Asbestos
Sample ID	Lab ID	Sample Description	Material Type	Appearance	Texture	Color	% Non-Fibrous	% Fibrous	% Type
23490-DI-08A	1316	White Duct Insulation (Layer 1)	Miscellaneous	Heterogeneous, Mixed	Rough	White	>95% Other	<1% Cellulose	None Detected
23490-DI-08A	1316	White Duct Insulation (Layer 2)	Miscellaneous	Heterogeneous, Mixed	Fibrous	Yellow	1-5% Other	>95% Mineral Wool	None Detected
23490-DI-08B	1317	White Duct Insulation (Layer 1)	Miscellaneous	Heterogeneous, Mixed	Rough	White	>95% Other	<1% Cellulose	None Detected
23490-DI-08B	1317	White Duct Insulation (Layer 2)	Miscellaneous	Heterogeneous, Mixed	Fibrous	Yellow	1-5% Other	>95% Mineral Wool	None Detected
23490-DI-08C	1318	White Duct Insulation (Layer 1)	Miscellaneous	Heterogeneous, Mixed	Rough	White	>95% Other	<1% Cellulose	None Detected
23490-DI-08C	1318	White Duct Insulation (Layer 2)	Miscellaneous	Heterogeneous, Mixed	Fibrous	Yellow	1-5% Other	>95% Mineral Wool	None Detected
23490-AI-09A	1319	White Attic Insulation	Miscellaneous	Homogeneous, Fibrous	Fibrous	Orange	1-5% Other	>95% Mineral Wool	None Detected
23490-AI-09B	1320	White Attic Insulation	Miscellaneous	Homogeneous, Fibrous	Fibrous	Orange	1-5% Other	>95% Mineral Wool	None Detected
23490-AI-09C	1321	White Attic Insulation	Miscellaneous	Homogeneous, Fibrous	Fibrous	Orange	1-5% Other	>95% Mineral Wool	None Detected

ANALYST: E Nelson

REVIEWED BY: Robert H Hill II

Samples 51 SAMPLES ANALYZED

Laboratory Disclaimer:
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CHAIN OF CUSTODY / LABORATORY WORK REQUEST

SITEX Environmental Inc.
1525 S. Broadway
St. Louis, MO 63104-4014

Phone: (314) 421-0600
FAX: (314) 421-0234

Project Name: Station #1
Project Address: 424 East Olive Street
Pueblo, MO

Project # : 23420
Client Contact: Dustin Roberts
E-Mail: Dustin@navigatebuildingsolutions.com

Invoice to:

Date : 12/18/25
P.O. # :

Sample ID	Description	Date/Time Sampled	# of Cont	Type	Matrix: Bulk	Air	Water	Soil	Sludge	Preservative: Unpres.	HNO_3	NaOH	H_2SO_4	HCl	Cold	Analysis Required: PLM / DS						
23420-FT-01A	Yellow beige floor tile	12/17/25	1	Bag	X					X						X						
FT-01B	"	"	"	"																		
FT-01C	"	"	"	"																		
FT-02A	Grey floor tile	"	"	"																		
FT-02B	"	"	"	"																		
FT-02C	"	"	"	"																		
FT-03A	blue/grey floor tile	"	"	"																		
FT-03B	"	"	"	"																		
FT-03C	"	"	"	"																		
CB-04A	Blue cove base	"	"	"																		
CB-04B	"	"	"	"																		
CB-04C	"	"	"	"																		
CB-05A	black, cove base	"	"	"																		
CB-05B	"	"	"	"																		
CB-05C	"	"	"	"																		

Comments:

Turn Around Time

- ___ 1 hour
- ___ 2-3 hour
- ___ 6-8 Hours
- ___ 24 Hour
- ___ Same Day
- ___ 48 Hours
- X 3-5 Day

Samples Taken By
MMJ + RHH

25-12-0150
EJW
18DEC2025

Relinquished By	Date/Time	Received By	Date/Time
Mackenzie Wagner	12/18/25; 11:11 a.m.	E Nelson	18DEC2025 1:00 pm

CHAIN OF CUSTODY / LABORATORY WORK REQUEST

SITEX Environmental Inc.
1525 S. Broadway
St. Louis, MO 63104-4014

Phone: (314) 421-0600
FAX: (314) 421-0234

Project Name: Same as Page before
Project Address:

Project # : 23490
Client Contact
E-Mail:

Invoice to:

Date : 12/18/25
P.O. # :

Sample ID	Description	Date/Time Sampled	# of Cont	Type	Matrix: Bulk	Air	Water	Soil	Sludge	Preservative: Unpres.	HNO_3	NaOH	H_2SO_4	HCl	Cold	Analysis Required: PLM / DS						
23490-DW-06A	White drywall	12/17/25	1	Bag	X					X						X						
DW-06B	"	"	"	"																		
DW-06C	"	"	"	"																		
DW-07A	Blue painted drywall																					
DW-07B	"																					
DW-07C	"																					
DI-08A	White dust insulation																					
DI-08B	"																					
DI-08C	"																					
AT-09A	White attic insulation																					
AT-09B	"																					
AT-09C	"	"	"	"																		

Comments:

Relinquished By	Date/Time	Received By	Date/Time
Mallorie Olson	12/18/25 11:11 a.m.	E Nelson	18DEC2025 1:00 PM

Turn Around Time

- ___ 1 hour
- ___ 2-3 hour
- ___ 6-8 Hours
- ___ 24 Hour
- ___ Same Day
- ___ 48 Hours
- X 3-5 Day

Samples Taken By
MW

25-12-0150
EJon
18DEC2025

McCRONE RESEARCH INSTITUTE

certifies that

Elizabeth Nelson

has successfully completed an intensive course of instruction in

Microscopical Identification of Asbestos

given by the McCrone Research Institute

Presented this 11th day of October, 2024

Course Date: October 7-11, 2024

McCRONE RESEARCH INSTITUTE

certifies that

Robert H. Hill, II

has successfully completed an intensive course of instruction in

"Microscopical Identification of Asbestos"

given by the McCrone Research Institute

Presented this 13th *day of* Jan. 1989

3.5 CEU's
4.5 ABIH CM

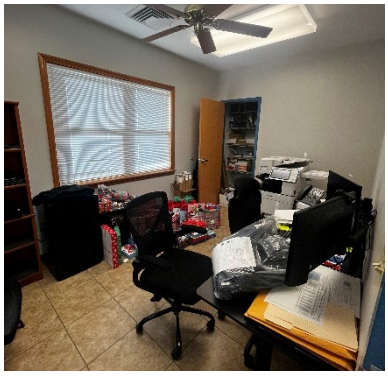
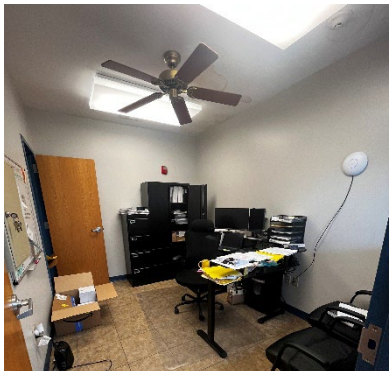
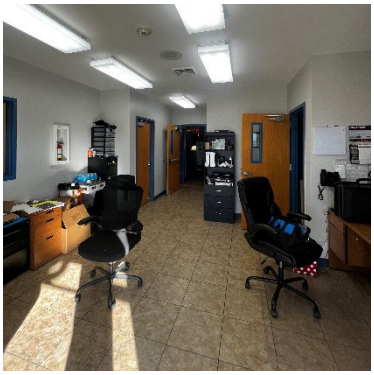
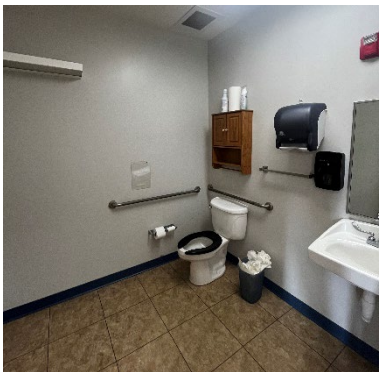
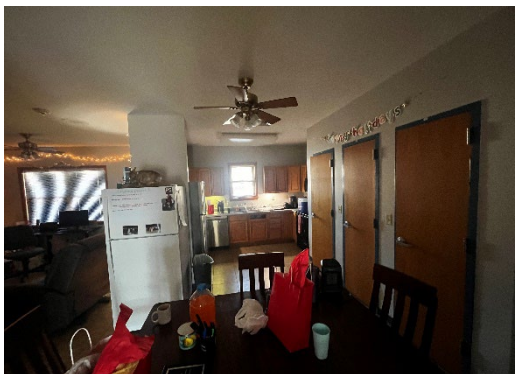
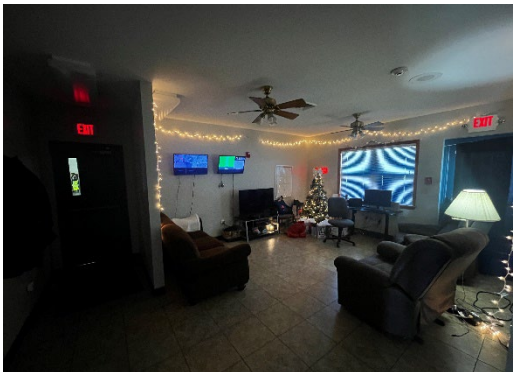
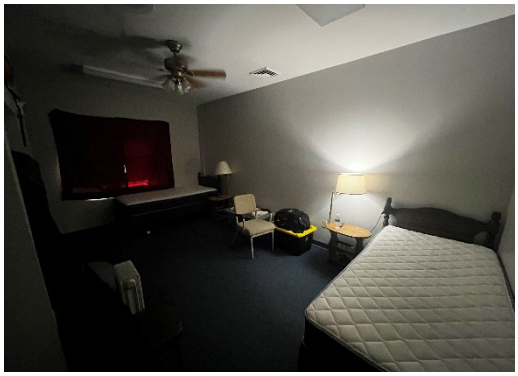
Robert D. McCrone

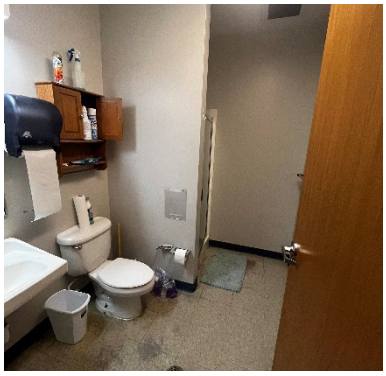
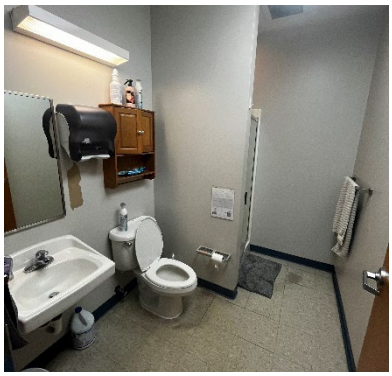
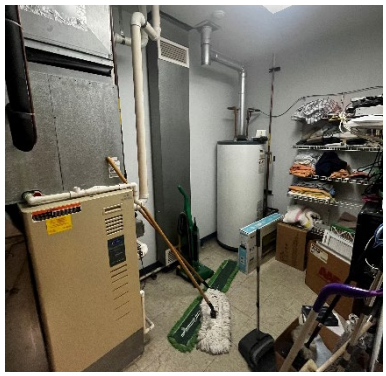
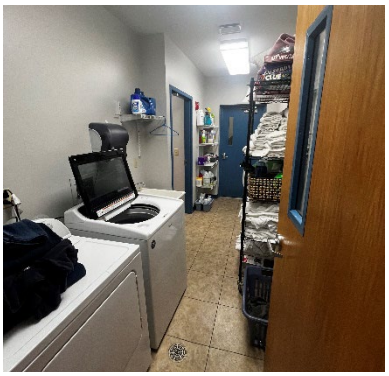
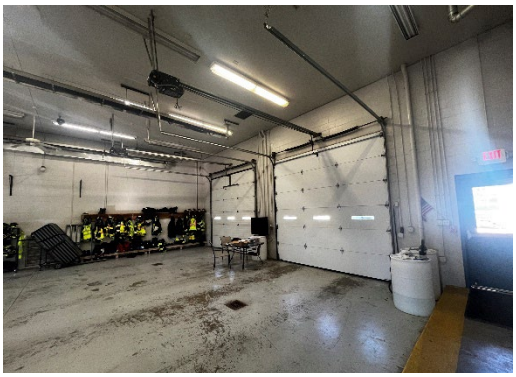
John G. Delly

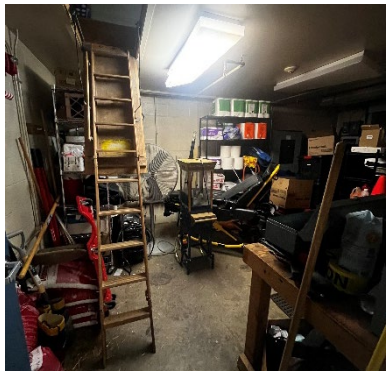
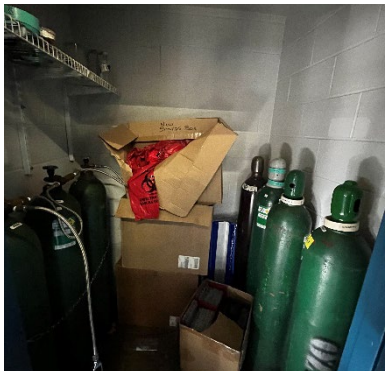
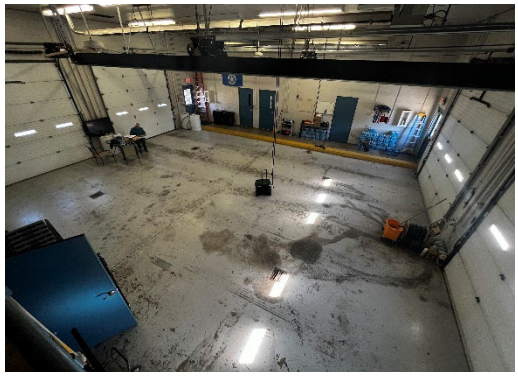
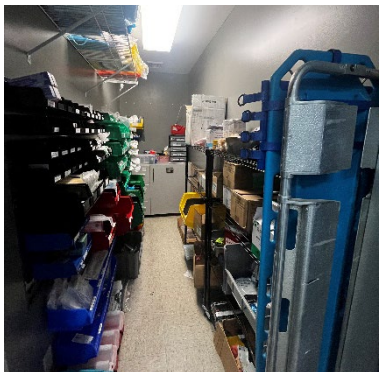
APPENDIX B

PHOTOGRAPH LOG

	
Front view of 429 East Osage Street	**Side view of Station 1**
	
Back view of Station 1	**Side view of Station 1**
	
Electrical and AC unit	**Trash can onsite**
	
Back exit	**Gas line**

	
Front office	**Side office**
	
Main hallway	**Storage room**
	
Front bathroom	**Kitchen**
	
Living room	**Bedroom**

	
Other bedroom	**Other bedroom bathroom**
	
Bedroom bathroom	**Utility closet**
	
Laundry room	**Laundry room bathroom**
	
Garage overview	**Garage overview**

	
Garage storage room	**Garage storage room**
	
Garage closet	**Garage mezzanine**
	
Overview of garage	**Medicine room**
Intentionally left blank	**Intentionally left blank**

APPENDIX C

XRF LEAD PAINT SUMMARY LOG SHEETS

LEAD PAINT SURVEY

Project Name: Station 1 | **Date Collected:** December 17, 2025

On-Site Technician: Roberth H. Hill II | **Project Number:** 23490

Project Location: 429 East Osage Street | **Instrument Used:** Olympus Innov-X

SAMPLE	LOCATION	COMPONENT	CONDITION	SUBSTRATE	COLOR	RESULTS	POS/NEG	QUANTITY
001	Calibration	Coin	Intact	Metal	Silver	Pass	N/A	N/A
002	Calibration	SRM2570	Intact	Plastic	White	0.00±0.00	NEG	N/A
003	Calibration	SRM2573	Intact	Plastic	Red	1.16±0.04	POS	N/A
004	South Exterior	Cinderblock	Intact	Cinderblock	Blue	0.00±0.00	NEG	N/A
005	South Exterior	Door	Intact	Metal	Blue	0.00±0.00	NEG	N/A
006	South Exterior	Door Frame	Intact	Metal	Blue	0.00±0.00	NEG	N/A
007	South Exterior	Garage Door	Intact	Metal	White	0.00±0.00	NEG	N/A
008	South Exterior	Garage Frame	Intact	Metal	Blue	0.00±0.00	NEG	N/A
009	South Exterior	Bollard	Intact	Metal	Yellow	0.01±0.00	NEG	N/A
010	South Exterior	Gutter	Intact	Metal	White	0.01±0.00	NEG	N/A
011	South Exterior	Fascia	Intact	Metal	White	0.02±0.01	NEG	N/A
012	South Exterior	Payment Box	Intact	Metal	Brown	0.00±0.00	NEG	N/A
013	Main Entrance	Door	Intact	Metal	Blue	0.00±0.00	NEG	N/A
014	Main Entrance	Window Frame	Intact	Metal	Blue	0.00±0.00	NEG	N/A
015	Lobby	East Wall	Intact	Drywall	White	0.00±0.00	NEG	N/A
016	Lobby	Door Frame	Intact	Metal	Blue	0.00±0.00	NEG	N/A
017	Lobby	Door Window	Intact	Metal	Blue	0.00±0.00	NEG	N/A
018	Storage Room	North Wall	Intact	Drywall	Blue	0.00±0.00	NEG	N/A
019	Storage Room	Ceiling	Intact	Drywall	White	0.00±0.00	NEG	N/A
020	Utility Room	HVAC	Intact	Metal	Tan	0.00±0.00	NEG	N/A
021	Laundry Room	East Wall	Intact	Drywall	White	0.00±0.00	NEG	N/A
022	Restroom	West Wall	Intact	Drywall	White	0.00±0.00	NEG	N/A
023	Garage/Bay	East Wall	Intact	Cinderblock	White	0.00±0.00	NEG	N/A
024	Garage/Bay	North Wall	Intact	Cinderblock	White	0.00±0.00	NEG	N/A
025	Garage/Bay	South Wall	Intact	Cinderblock	White	0.00±0.00	NEG	N/A
026	Garage/Bay	West Wall	Intact	Cinderblock	White	0.00±0.00	NEG	N/A
027	Garage/Bay	Stripping	Intact	Concrete	Yellow	0.00±0.00	NEG	N/A
028	Garage/Bay	Tool Rack	Intact	Wood	Yellow	0.00±0.00	NEG	N/A
029	Garage/Bay	Floor	Intact	Concrete	Gray	0.00±0.00	NEG	N/A
030	Mezzanine	Ceiling	Intact	Drywall	White	0.00±0.00	NEG	N/A
031	Mezzanine	Railing Hand	Intact	Metal	Blue	0.00±0.00	NEG	N/A
032	Mezzanine	South Wall	Intact	Cinderblock	White	0.00±0.00	NEG	N/A
033	Garage/Bay	Bracket	Intact	Metal	Rust	0.00±0.00	NEG	N/A

LEAD PAINT SURVEY

Project Name: Station 1 | **Date Collected:** December 17, 2025

On-Site Technician: Roberth H. Hill II | **Project Number:** 23490

Project Location: 429 East Osage Street | **Instrument Used:** Olympus Innov-X

SAMPLE	LOCATION	COMPONENT	CONDITION	SUBSTRATE	COLOR	RESULTS	POS/NEG	QUANTITY
034	Mezzanine	Access Carer	Intact	Metal	White	0.00±0.00	NEG	N/A
035	Mezzanine	Access Frame	Intact	Metal	White	0.00±0.00	NEG	N/A
036	Garage Storage Rm	Panel Box	Intact	Metal	Gray	0.00±0.01	NEG	N/A
037	Garage Storage Rm	Acco Box	Intact	Metal	Gray	0.00±0.02	NEG	N/A
038	Garage Storage Rm	Luby Box	Intact	Metal	Gray	0.00±0.03	NEG	N/A
039	Garage Storage Rm	Liebert Cam	Intact	Metal	Gray	0.00±0.04	NEG	N/A
040	Garage Storage Rm	Spare Heater	Intact	Metal	Brown	0.00±0.05	NEG	N/A
041	Garage Storage Rm	Boot Shelf	Intact	Wood	Tan	0.00±0.06	NEG	N/A
042	Garage/Bay	Garage Door	Intact	Metal	White	0.00±0.07	NEG	N/A
043	Calibration	Coin	Intact	Metal	Silver	Pass	N/A	N/A
044	Calibration	SRM2570	Intact	Plastic	White	0.00±0.00	NEG	N/A
045	Calibration	SRM2573	Intact	Plastic	Red	1.12±0.03	POS	N/A

APPENDIX D

LABORATORY ACCREDITATION AND INDIVIDUAL CERTIFICATIONS

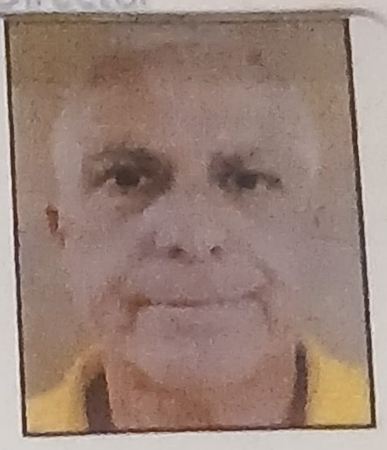
MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Mike Kehoe
Governor

Kurt U. Schaefer
Director

CERTIFICATION NUMBER:
7118072525MOIR2164

THIS CERTIFIES
Robert H Hill II
HAS COMPLETED THE CERTIFICATION
REQUIREMENTS FOR
Inspector



APPROVED: **07/25/2025** TRAINING DATE: **07/25/2025**
EXPIRES: **07/25/2026**

Director of Air Pollution Control Program

July 25, 2025

Robert H Hill II
608 N 43rd St
Belleville, IL 62226

RE: **Missouri Asbestos Occupation Certification Card**

Enclosed is your certification card for Asbestos Inspector, as issued by the Asbestos Unit of the Missouri Department of Natural Resources' Air Pollution Control Program.

Missouri Certification Number: 7118072525MOIR2164
Course Training Date: July 25, 2025
Missouri Certification Approval Date: July 25, 2025
Missouri Certification Expiration Date: July 25, 2026

Note:

- All Missouri-certified asbestos personnel must comply with the following statutes and regulations:
  - Sections 643.225 to 643.250, RSMo;
  - 10 CSR 10-6.241 *Asbestos Projects-Registration, Abatement, Notification, Inspection, Demolition, and Performance Requirements; and*
  - 10 CSR 10-6.250 *Asbestos Projects-Certification, Accreditation and Business Exemption Requirements.*
- To keep your occupation certification up-to-date, you must complete an annual refresher course and submit a renewal application each year.
- In order to be eligible to renew your certification, you must successfully complete a refresher course with a Missouri-accredited training provider within 12 months of the expiration date of your current training certificate. If you exceed this grace period, you will be required to retake a Missouri-accredited initial course in order to be eligible for Missouri certification.

To obtain a copy of the certification renewal application, or review regulations and requirements, please visit our website at http://dnr.mo.gov/env/apcp/asbestos/index.htm.

If you have any questions please call the Air Pollution Control Program at 573-751-4817.

AIR POLLUTION CONTROL PROGRAM

Director of Air Pollution Control Program

STATE OF MISSOURI
DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD ABATEMENT OCCUPATION LICENSE

Issued to:

Robert Hill

The person, firm or corporation whose name appears on this certificate has fulfilled the requirements for licensure as set forth in the Missouri Revised Statutes 701.300-701.338, as long as not suspended or revoked, and is hereby authorized to engage in the activity listed below.

Lead Risk Assessor
Category of License

Issuance Date:	**05/16/2025**
Expiration Date:	**05/16/2027**
License Number:	**010517-200133036**

Sarah Willson
Acting Director
Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102

SITEX Project No: 23490

HAZARDOUS MATERIALS SURVEY

Of

Meramec Ambulance District Station #3
7390 Highway O
Robertsville, Missouri

Prepared for:

Meramec Ambulance District
3279 Highway 100
Villa Ridge, Missouri 63089

Prepared by:

SITEX, Inc.
1525 South Broadway
St. Louis, Missouri 63104

December 26, 2025

SITEX Est. 1987

Your Sole Provider of Environmental Health & Safety Services

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EXECUTIVE SUMMARY

SITEX Environmental, Inc. (SITEX) was awarded the contract by Meramec Ambulance District to perform a hazardous materials survey of the Meramec Ambulance District Station #3 at 7390 Highway O in Robertsville, Missouri. This assessment was performed to determine the presence or absence of asbestos-containing materials (ACM) and Lead-Based Paint (LBP) for the purposes of building renovation and demolition. Bulk samples of suspect building materials were analyzed for asbestos content by Polarized Light Microscopy (PLM). Paint on surfaces was tested for lead content using an X-Ray Fluorescence (XRF) spectrum analyzer. Additionally, SITEX took an inventory of universal hazardous materials that would be disturbed by construction which included fire extinguishers, smoke alarms, fluorescent light fixtures, light bulbs, exit signs, thermostats, and carbon monoxide detectors. The estimated quantities of these items are summarized at the end of this report.

SURVEY INTRODUCTION/SCOPE OF WORK

Robert H. Hill II and Mackenzie Wagner of SITEX conducted the hazardous materials survey on December 17, 2025. The structure is described as a one-story steel frame construction on a concrete slab. The structure is part of the Meramec Ambulance District. The exterior roof is pitched with a shingle roof that was replaced in 2020. The interior ceilings consist of painted plaster. Interior walls consisted of painted drywall or cinderblock. Interior floors consisted of concrete, floor tiles, or carpet.

ASBESTOS SURVEY SUMMARY TABLE DEFINITIONS

Sample Number

A number is assigned to each sample to track results. A homogenous area is defined as an area of material that is uniform in color, texture, and age. Each homogenous area was given a distinct letter designation. An example of the numbering sequence is as follows:

23490-FT-01C

23490 = SITEX project number
FT = Floor tile
1 = First sample taken of material description
C = Homogeneous area designation (3rd identified homogeneous area)

Sample Description

Describes the bulk sample material collected.

Approximate Quantity

Approximate quantity of ACM per sample location.

Abbreviations

AI = Attic Insulation
CB = Ceiling Board
DW = Drywall
FT = Floor Tile

Condition

Condition of the suspect material at the time of this inspection. This is based on the discretion of the inspector. The condition categories are as follows:

Good = no visible damage
Fair = minor damage
Poor = major damage, needs action as soon as possible

Accessibility

Indicates how accessible the suspect material is and to what group of people. The categories are as follows:

Low = material was inaccessible, or access was very limited
Moderate = material was only accessible to maintenance personnel
High = material was accessible to the general public

Friability (Non-Friable versus Friable)

A designation to indicate friability (extent to which material, when dry, may be crushed, crumbled, or reduced to powder with hand pressure):

Friability (Non-Friable versus Friable) Continued

No = non-friable
Yes = friable

Bulk Sample Results

Positive - > 1% Asbestos
Negative - < or = 1% Asbestos

The United States Environmental Protection Agency (U.S. EPA) guidelines for classifying asbestos containing material is any material that contains equal to or greater than one percent (1%) asbestos by visual estimated weight percent (% weight).

ASBESTOS SURVEY SUMMARY

SITEX collected up to three bulk samples of each homogeneous suspect asbestos continuing building materials (ACBM) which were observed throughout the interior or exterior of the structure.

Bulk samples were collected in discrete locations or in areas which already had sustained water and/or physical damage.

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE DESCRIPTION	APPROXIMATE QUANTITY	CONDITION	ACCESSIBILITY	FRIABILITY	SAMPLE RESULTS
23490-FT-01A	Electrical Room	White w/ blue specs, Floor tile	N/A	Fair	Moderate	Non-friable	None Detected
23490-FT-01A	Electrical Room	White w/ blue specs, Floor tile mastic	N/A	Fair	Low	Non-friable	None Detected
23490-FT-01B	Electrical Room	White w/ blue specs, Floor tile	N/A	Fair	Moderate	Non-friable	None Detected
23490-FT-01B	Electrical Room	White w/ blue specs, Floor tile mastic	N/A	Fair	Low	Non-friable	None Detected
23490-FT-01C	Electrical Room	White w/ blue specs, Floor tile	N/A	Fair	Moderate	Non-friable	None Detected
23490-FT-01C	Electrical Room	White w/ blue specs, Floor tile mastic	N/A	Fair	Low	Non-friable	None Detected
23490-FT-02A	Office	Yellow/Beige Floor tile	N/A	Good	High	Non-friable	None Detected
23490-FT-02A	Office	Yellow/Beige Floor tile mastic	N/A	Good	Low	Non-friable	None Detected
23490-FT-02B	Bathroom	Yellow/Beige Floor tile	N/A	Good	High	Non-friable	None Detected
23490-FT-02B	Bathroom	Yellow/Beige Floor tile mastic	N/A	Good	Low	Non-friable	None Detected
23490-FT-02C	Kitchen	Yellow/Beige Floor tile	N/A	Good	High	Non-friable	None Detected
23490-FT-02C	Kitchen	Yellow/Beige Floor tile mastic	N/A	Good	Low	Non-friable	None Detected
23490-CB-03A	Office	Blue Cove base	N/A	Good	High	Non-friable	None Detected
23490-CB-03A	Office	Blue Cove base glue	N/A	Good	Low	Non-friable	None Detected
23490-CB-03B	Bathroom	Blue Cove base	N/A	Good	High	Non-friable	None Detected

23490-CB-03B	Bathroom	Blue Cove base glue	N/A	Good	Low	Non-friable	None Detected
23490-CB-03C	Kitchen	Blue Cove base	N/A	Good	High	Non-friable	None Detected
23490-CB-03C	Kitchen	Blue Cove base glue	N/A	Good	Low	Non-friable	None Detected
23490-DW-04A	Office	White Drywall	N/A	Good	High	Friable	None Detected
23490-DW-04A	Office	White Drywall (Layer 2)	N/A	Good	Low	Friable	None Detected
23490-DW-04B	Kitchen	White Drywall	N/A	Good	High	Friable	None Detected
23490-DW-04B	Kitchen	White Drywall (Layer 2)	N/A	Good	Low	Friable	None Detected
23490-DW-04C	Bedroom	White Drywall	N/A	Good	High	Friable	None Detected
23490-DW-04C	Bedroom	White Drywall (Layer 2)	N/A	Good	Low	Friable	None Detected
23490-AI-05A	Mezzanine/Attic	White Attic Insulation	N/A	Good	Moderate	Friable	None Detected
23490-AI-05B	Mezzanine/Attic	White Attic Insulation	N/A	Good	Moderate	Friable	None Detected
23490-AI-05C	Mezzanine/Attic	White Attic Insulation	N/A	Good	Moderate	Friable	None Detected

Notes:
Listed items in **Bold** denote asbestos containing building materials (ACBMs).
The United States Environmental Protection Agency (U.S. EPA) has defined an asbestos material to contain equal to or greater than one percent asbestos.
Occupational Safety and Health Administration (OSHA) has determined asbestos detected at any level is a potential health exposure hazard.
PLM Methodology using United States Environmental Protection Agency (U.S. EPA) EPA/600/R-93/116 based on a total visual estimated weight percentage

Bulk samples ending with 1/2/3 denote each sample collected per homogeneous sample set.
Negative = A non-regulated material containing less than one percent asbestos (<1%).
Positive = A regulated material containing asbestos equal to or greater than one percent (>1%).
SF = Square feet.
LF = Linear feet.
N/A = Not applicable

ASBESTOS SAMPLING AND ANALYTICAL PROCEDURES

Random bulk samples, representative of the suspect asbestos-containing building materials of each homogeneous area, were collected. Representative sampling is based on the following criteria:

1. The distribution of the suspect material throughout the homogeneous area.
2. The suspect material's physical characteristics and application.
3. Random sampling patterns determined for each homogeneous area.

Suspicions, sampled and analyzed, should be considered to be representative of materials in each homogeneous area if:

1. They exhibit similar physical characteristics. (i.e. color, texture).
2. The application of the sampled material can be correlated to the application of unsampled material by physical appearance and time of application.

All bulk samples collected were analyzed using the Environmental Protection Agency's Method for the Detection of Asbestos in Bulk Samples (EPA 600/M4-82020, December 1982) and the McCrone Research Institute's The Asbestos Particle Atlas as method references.

The bulk samples were collected on December 17, 2025. Robert H. Hill II and Mackenzie Wagner of SITEX collected 45 bulk samples for asbestos analysis. SITEX was responsible for determining if asbestos was present on the exterior and interior of the structure and if present, provide estimated quantities of asbestos materials found. The samples, along with the proper Chain-of-Custody forms, were sent to SITEX, Inc. (SITEX) for bulk sample analysis. The analysis of the bulk samples was performed on December 19, 2025. A copy of SITEX's in house analysists credentials is included in this report as Appendix E – Laboratory and Accreditations and Individual Certifications.

XRF LEAD-BASED PAINT SURVEY SUMMARY

The XRF lead paint survey shots are included in this report and summarized in Appendix C – XRF Lead Paint Summary. An X-ray Fluorescence analyzer spectrum (XRF) was used for the lead survey. The InnoV-X Systems Delta Standard (model DS-2000, Serial #501736) was calibrated by the manufacturer. The XRF was calibrated before and after in the field. Appendix C - XRF Lead Paint Summary Log Sheets are attached.

Assumptions

SITEX assumed that pre-manufactured, anodized or baked-on surfaces were not LBP due to the paint composition and processes. Therefore, no shots were taken of these building components.

XRF Lead Shot Sample Identification and Documentation

Each lead shot taken was immediately recorded onto the Lead Paint Survey field log sheet. The following paragraphs provide an explanation of the terms used on the lead paint survey log sheet.

Lead Survey Paint Field Log Sheet

The lead paint survey field log sheet includes the shot number, shot location, a description of the building component shot, its condition, paint substrate, paint color, XRF shot results, positive/negative, and estimated quantity. The following paragraphs provide an explanation of the above-mentioned terms used on the lead paint survey data sheet.

Shot Number

The shot number is a three-digit sequential number beginning with 001. The shot number includes pre- and post-calibration shots, and quality control shots (duplicates or re-takes). An example of the numbering sequence is as follows:

001 = First shot taken for the lead survey

Shot Location

Describes the shot's physical location of the painted building component within the facility exterior or interior.

Component

Describes the painted building component material being tested.

Condition

Describes the physical condition of the building component material. Two physical conditions exist which include intact, or deterioration as described in these categories.

Intact: Exterior surfaces with large surface areas with no deteriorated paint.

Intact: Interior surfaces with large surface areas with no deteriorated paint.

Intact: Interior and Exterior components with small surface area with no deteriorated paint.

Deteriorated: Exterior components with large surface area more than 10 square feet of deteriorated paint or, Interior components with large surface more than 2 square feet of deteriorated paint or interior and exterior components with small surface area more than 10 percent (10%) of the total surface area of the component.

Substrate

Defines the composition of the material (concrete, metal, wood, plastic) to which the paint is adhered to.

Color

Provides the physical description of the color of the painted building component. Color helps the lead-risk assessor determine homogenous areas (similar painting history) and can assist with certain types of older paint known to contain lead (battleship gray, red).

Results

Shows the units of measure for the painted building component. For purposes of this survey, the XRF direct-reading instrument displays the lead content in milligrams per square centimeter (mg/cm^2). This unit of measure can be directly compared to the federal HUD guideline definition of LBP.

Positive/Negative

The determination of whether a painted component is positive or negative is given by the XRF direct-reading measurement displayed in mg/cm^2. Painted building components which are equal to (=) or greater than (>) 1.0 mg/cm^2 are considered to be lead-based paint (LBP). LBP is regulated under the United States Environmental Protection Agency (USEPA), HUD federal regulatory lead standards, and State of Illinois lead regulations.

Painted building components which do not exceed (<) 1.0 mg/cm^2 are not considered to be LBP and are not regulated. However, the Occupational Safety and Health Administration

(OSHA) regulates exposure to workers. OSHA considers any amount of lead in a painted building component to be a lead-containing material (LCM). According to OSHA, LCMs have the potential to create exposure hazards to workers.

For purposes of this survey the following terms will be used to represent the following:

Positive: Painted component which contains > or = 1.0 mg/cm^2 lead content.
Negative: Painted component which contains < 1.0 mg/cm^2 lead content.

Painted components which are listed as positive are LBP; these materials are regulated.

Painted components which are negative are LCM; these materials are non-regulated.

Quantity

The approximate estimated quantities of the lead building component are expressed as square feet (SF), linear feet (LF), or each (Each).

Pre- and post-calibration shots do not have a quantity associated with these shots.

Regulatory Guidance

Lead-based paint is considered 1.0 milligrams per square centimeter (mg/cm^2) for the XRF instrumentation, or 0.5 lead percent by weight (% weight) if a physical lead paint chip sample had been collected.

Lead testing combinations were followed in accordance with the federal United States Department of Urban and Housing Development (HUD) guidelines. The XRF instrument was pre- and post-calibrated using a manufactured coin, a negative plastic-coated lead template (SRM 2570), and a positive plastic-coated lead template (SRM 2573).

According to the Resource Conservation Recovery Act (RCRA) for Lead-Based Paint (LBP) renovation/demolition activities, general construction debris which contain lead must be analyzed by the Toxicity Characteristic Leaching Procedure (TCLP) to determine toxicity. Construction debris that exceeds 5 parts per million (ppm) will be disposed of as hazardous waste. Construction debris that is below 5 ppm is considered to be non-hazardous and be disposed of into a sanitary landfill.

The Occupational Safety and Health Administration (OSHA) has determined that any level of lead in a substance is defined as a Lead Containing Material (LCM). When disturbing LCMs the contractor is held to specific work practices and employee protection in accordance with the Lead in Construction Standard 20CFR 1926.62.

LBP PAINT SAMPLING AND ANALYTICAL PROCEDURES

The direct-reading shots were taken on December 17, 2025. State of Missouri Lead Risk-Assessor Robert Hill II took a total of 41 shots. SITEX did not collect paint chip samples because the direct-reading instrument had no inconclusive readings. SITEX identified 0 painted building components which were identified with LBP on the interior and exterior of the structure. Lead based paint was not found in the assessment. In Appendix C – XRF Lead Paint Summary Log Sheets are attached.

UNIVERSAL HAZARDOUS MATERIALS INVENTORY

SITEX took an inventory of hazardous materials which were observed on the interior of the structure. The inventory is summarized below with the materials identified.

Material Identification	***Location***	***Estimated Quantities***
Fire Extinguisher	Throughout	6
Smoke Alarms	Throughout	8
Fire Alarms	Throughout	12
Carbon Monoxide Detectors	Kitchen/Living Room	2
Exit Signs	Throughout	6
Thermostat	Hallway	1
Bulbs (Candelescent)	Throughout	33
Fluorescent Bulbs	Throughout	107

CONCLUSIONS AND RECOMMENDATIONS

SITEX performed an asbestos and LBP survey of Meramec Ambulance District Station #3 located at 7390 Highway O in Robertsville, Missouri, in preparation for planned renovation. SITEX presents the following conclusions and recommendations.

Identified Asbestos Containing Materials (ACM)
Based on the bulk samples collected and review of laboratory analytical results there were no ACM identified on the interior of the building.

LBP
Lead-based paints were not found to be present on the interior and exterior of the Subject Property.

Universal Hazardous Materials

SITEX recommends that these materials be properly inspected for proper working order and should remain on site in the event of potential smoke or fire occurrences.

SURVEY TEAM

The representative for SITEX Environmental, Inc. conducting the survey included SITEX personnel Robert H. Hill II and Mackenzie Wagner. Mr. Hill is accredited in Missouri as an asbestos inspector and Lead Risk Assessor. Mr. Hill's certifications are included in Appendix E – Laboratory Accreditations and Individual Certifications
of this report.

Limitations

An office was unable to be accessed due to the HIPPA records being stored in there. SITEX assumes this office is identical to the other.

Access to the exterior roof was limited by visual. SITEX was informed that the roof had been replaced in 2020. This leads SITEX to conclude that the exterior is not ACM.

Disclaimer

These results do not imply nor deny conditions that may have existed prior to our sampling or previous inspections. This survey and sampling were performed in a thorough and professional manner consistent with industry standards.

The ACM and LBP survey are representative of bulk samples collected and XRF shots taken at the time of the survey. SITEX performed limited destructive sampling. The analytical results are valid only for the bulk samples collected and the XRF shots taken.

If during renovation and/or demolition activities, additional suspect asbestos and/or lead is uncovered, SITEX recommends that a State of Missouri licensed asbestos or lead inspector collect a bulk sample for analysis to determine the presence of asbestos or taken additional shots to determine the presence of lead.

The Asbestos and Lead-Based Paint (LBP) Survey Team consisted of the following State of Missouri licensed individuals.

Surveyed by:



Robert Hill II
Missouri Asbestos Inspector
Missouri Certificate #7118062124MOIR2164

Missouri Lead Risk Assessor
Missouri Certificate #010517-200133036

APPENDICES

Appendix A – SITEX Laboratory PLM Analysis Reports
Appendix B – Photograph Log
Appendix C – XRF Lead Paint Summary Log Sheets
Appendix D – Laboratory Accreditation and Individual Certifications

APPENDIX A

SITEX LABORATORY PLM ANALYSIS REPORT

1525 South Broadway
St. Louis, Missouri 63104
Phone: (314) 421-0600
Fax: (314) 421-0234

Your Sole Provider of Environmental Health & Safety Services

POLARIZED LIGHT MICROSCOPY ANALYSIS REPORT

(Method : EPA/600/R-93/116)

Project No. :	23490	Received Date:	12/18/2025	Customer:	Meramec Ambulance District
Report No. :	25-12-0149	Analyzed Date:	12/19/2025	Project Name:	Station #3
Contact :	Dustin Roberts	Customer PO:	N/A	Project Address:	7390 Highway O Robertsville, MO

Sample Info		Client Provided Information		Analytical Info			Non-Asbestos		Asbestos
Sample ID	Lab ID	Sample Description	Material Type	Appearance	Texture	Color	% Non-Fibrous	% Fibrous	% Type
23490-FT-01A	1280	White w/Blue Specs, Floor Tile (Layer 1)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Off-White	>95% Other	<1% Cellulose	None Detected
23490-FT-01A	1280	White w/Blue Specs, Floor Tile (Layer 2)	Miscellaneous	Heterogeneous, Non-Fibrous	Rough	Yellow	>95% Other	1-5% Cellulose	None Detected
23490-FT-01B	1281	White w/Blue Specs, Floor Tile (Layer 1)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Off-White	>95% Other	<1% Cellulose	None Detected
23490-FT-01B	1281	White w/Blue Specs, Floor Tile (Layer 2)	Miscellaneous	Heterogeneous, Non-Fibrous	Rough	Yellow	>95% Other	1-5% Cellulose	None Detected
23490-FT-01C	1282	White w/Blue Specs, Floor Tile (Layer 1)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Off-White	>95% Other	<1% Cellulose	None Detected
23490-FT-01C	1282	White w/Blue Specs, Floor Tile (Layer 2)	Miscellaneous	Heterogeneous, Non-Fibrous	Rough	Yellow	>95% Other	1-5% Cellulose	None Detected
23490-FT-02A	1283	Yellow/Beige Floor Tile (Layer 1)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Beige	>95% Other	<1% Cellulose	None Detected
23490-FT-02A	1283	Yellow/Beige Floor Tile (Layer 2)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Gray	>95% Other	<1% Cellulose	None Detected
23490-FT-02B	1284	Yellow/Beige Floor Tile (Layer 1)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Beige	>95% Other	<1% Cellulose	None Detected
23490-FT-02B	1284	Yellow/Beige Floor Tile (Layer 2)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Gray	>95% Other	1-5% Cellulose	None Detected
23490-FT-02C	1285	Yellow/Beige Floor Tile (Layer 1)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Beige	>95% Other	<1% Cellulose	None Detected
23490-FT-02C	1285	Yellow/Beige Floor Tile (Layer 2)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Gray	>95% Other	<1% Cellulose	None Detected
23490-CB-03A	1286	Blue Covebase (Layer 1)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Blue	>95% Other	1-5% Cellulose	None Detected
23490-CB-03A	1286	Blue Covebase (Layer 2)	Miscellaneous	Heterogeneous, Non-Fibrous	Rough	Yellow	>95% Other	1-5% Cellulose	None Detected

ANALYST: E Nelson

REVIEWED BY: Robert L Hill II

Samples 27 SAMPLES ANALYZED

Laboratory Disclaimer:
The test data only pertains to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed in this report.
SITEX maintains liability limited to cost of analysis.
Interpretation and uses of test results are the responsibility of the client.
This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by SITEX.
SITEX participates in the American Industrial Hygiene Association (AIHA) Bulk Asbestos Proficiency Analytical Testing (BAPAT) Program , Participant Number 286604.

1525 South Broadway
St. Louis, Missouri 63104
Phone: (314) 421-0600
Fax: (314) 421-0234

Your Sole Provider of Environmental Health & Safety Services

POLARIZED LIGHT MICROSCOPY ANALYSIS REPORT

(Method : EPA/600/R-93/116)

Project No. :	23490	Received Date:	12/18/2025	Customer:	Meramec Ambulance District
Report No. :	25-12-0149	Analyzed Date:	12/19/2025	Project Name:	Station #3
Contact :	Dustin Roberts	Customer PO:	N/A	Project Address:	7390 Highway O Robertsville, MO

Sample Info		Client Provided Information		Analytical Info			Non-Asbestos		Asbestos
Sample ID	Lab ID	Sample Description	Material Type	Appearance	Texture	Color	% Non-Fibrous	% Fibrous	% Type
23490-CB-03B	1287	Blue Covebase (Layer 1)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Blue	>95% Other	1-5% Cellulose	None Detected
23490-CB-03B	1287	Blue Covebase (Layer 2)	Miscellaneous	Heterogeneous, Non-Fibrous	Rough	Yellow	>95% Other	1-5% Cellulose	None Detected
23490-CB-03C	1288	Blue Covebase (Layer 1)	Miscellaneous	Heterogeneous, Non-Fibrous	Smooth	Blue	>95% Other	1-5% Cellulose	None Detected
23490-CB-03C	1288	Blue Covebase (Layer 2)	Miscellaneous	Heterogeneous, Non-Fibrous	Rough	Yellow	>95% Other	1-5% Cellulose	None Detected
23490-DW-04A	1289	White Drywall (Layer 1)	Miscellaneous	Heterogeneous, Mixed	Rough	White	80-90% Other	10-20% Cellulose	None Detected
23490-DW-04A	1289	White Drywall (Layer 2)	Miscellaneous	Heterogeneous, Mixed	Fibrous	Brown	1-5% Other	>95% Cellulose	None Detected
23490-DW-04B	1290	White Drywall (Layer 1)	Miscellaneous	Heterogeneous, Mixed	Rough	White	90-95% Other	5-10% Cellulose	None Detected
23490-DW-04B	1290	White Drywall (Layer 2)	Miscellaneous	Heterogeneous, Mixed	Fibrous	Brown	1-5% Other	>95% Cellulose	None Detected
23490-DW-04C	1291	White Drywall (Layer 1)	Miscellaneous	Heterogeneous, Mixed	Rough	White	90-95% Other	5-10% Cellulose	None Detected
23490-DW-04C	1291	White Drywall (Layer 2)	Miscellaneous	Heterogeneous, Mixed	Fibrous	Brown	1-5% Other	>95% Cellulose	None Detected
23490-AI-05A	1292	White Attic Insulation	Miscellaneous	Homogeneous, Fibrous	Fibrous	Off-White	1-5% Other	10-20% Cellulose, 80-90% Mineral Wool	None Detected
23490-AI-05B	1293	White Attic Insulation	Miscellaneous	Homogeneous, Fibrous	Fibrous	Off-White	1-5% Other	1-5% Cellulose, 90-95% Mineral Wool	None Detected
23490-AI-05C	1294	White Attic Insulation	Miscellaneous	Homogeneous, Fibrous	Fibrous	Off-White	1-5% Other	1-5% Cellulose, 90-95% Mineral Wool	None Detected

ANALYST: E Nelson

REVIEWED BY: Robert H Hill II

Samples 27 SAMPLES ANALYZED

Laboratory Disclaimer:
The test data only pertains to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed in this report.
SITEX maintains liability limited to cost of analysis.
Interpretation and uses of test results are the responsibility of the client.
This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by SITEX.
SITEX participates in the American Industrial Hygiene Association (AIHA) Bulk Asbestos Proficiency Analytical Testing (BAPAT) Program , Participant Number 286604.

CHAIN OF CUSTODY / LABORATORY WORK REQUEST

~~Page 1 of 2~~ Page 1 of 1

EJW 18DEC2025

SITEX Environmental Inc.
1525 S. Broadway
St. Louis, MO 63104-4014

Phone: (314) 421-0600
FAX: (314) 421-0234

Project Name: Hutton #3
Project Address: 7390 Highway O
Roberts ville, MO

Project # : 23490
Client Contact: Dustin Roberts
E-Mail:

Invoice to:

Date : 12/18/25
P.O. # :

Sample ID	Description	Date/Time Sampled	# of Cont	Type	Matrix: Bulk	Air	Water	Soil	Sludge	Preservative: Unpres.	HNO_3	NaOH	H_2SO_4	HCl	Cold	Analysis Required: PLM / DS						
23490-FT-01A	White w/ blue specs, floor tile	12/17/25	1	Bag	X					X						X						
FT-01B	"	"	"	"																		
FT-01C	"	"	"	"																		
FT-02A	Yellow base floor tile																					
FT-02B	"																					
FT-02C	"																					
CB-03A	blue ceramic																					
CB-03B	"																					
CB-03C	"																					
DW-04A	White drywall																					
DW-04B	"																					
DW-04C	"																					
AT-05A	White office wallpaper																					
AT-05B	"																					
AT-05C	"																					

Comments:

Relinquished By	Date/Time	Received By	Date/Time
Madison Wilson	12/18/25 ; 11:20a.m.	S Nelson	18DEC2025 12:35 PM

Turn Around Time

- ___ 1 hour
- ___ 2-3 hour
- ___ 6-8 Hours
- ___ 24 Hour
- ___ Same Day
- ___ 48 Hours
- X 3-5 Day

Samples Taken By: MWW

25-12-0149
EJW
18DEC2025

McCRONE RESEARCH INSTITUTE

certifies that

Elizabeth Nelson

has successfully completed an intensive course of instruction in

Microscopical Identification of Asbestos

given by the McCrone Research Institute

Presented this 11th day of October, 2024

Course Date: October 7-11, 2024

McCRONE RESEARCH INSTITUTE

certifies that

Robert H. Hill, II

has successfully completed an intensive course of instruction in

"Microscopical Identification of Asbestos"

given by the McCrone Research Institute

Presented this 13th *day of* Jan. 1989

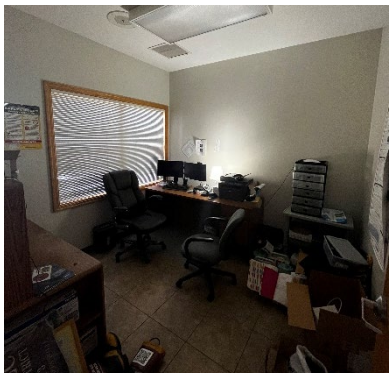
3.5 CEU's
4.5 ABIH CM

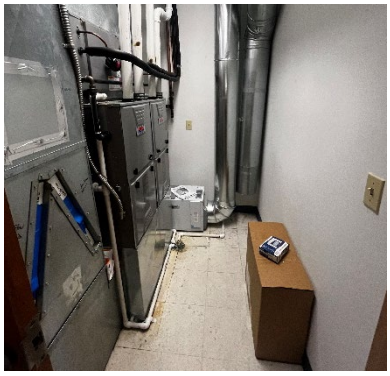
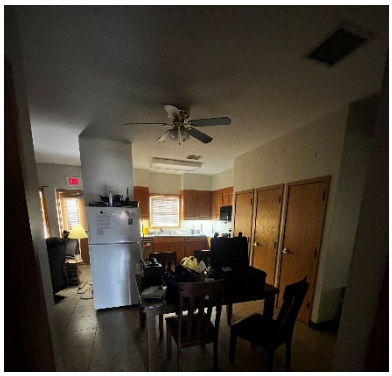
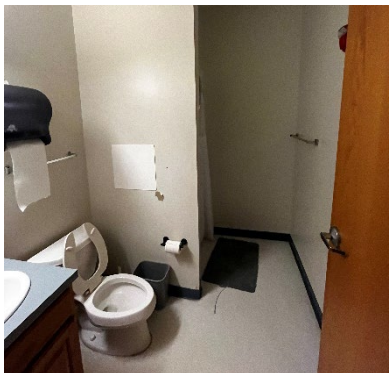
Robert D. McCrone

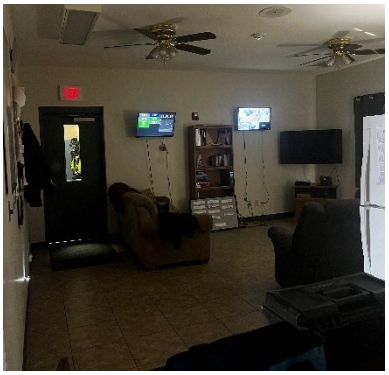
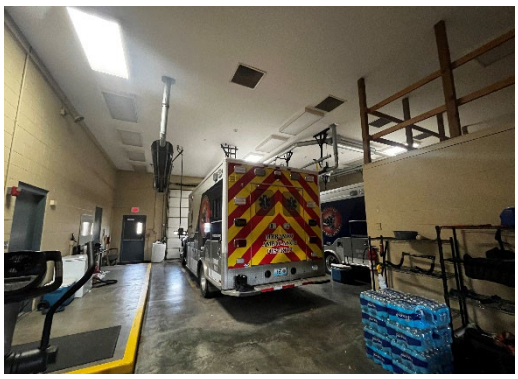
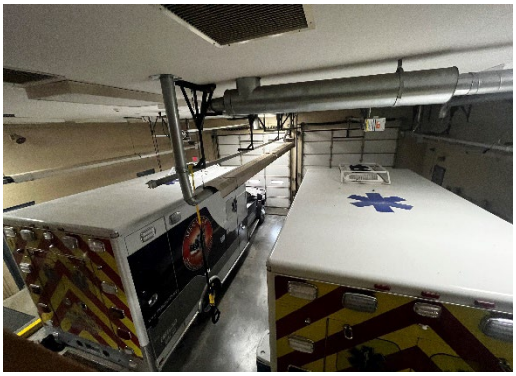
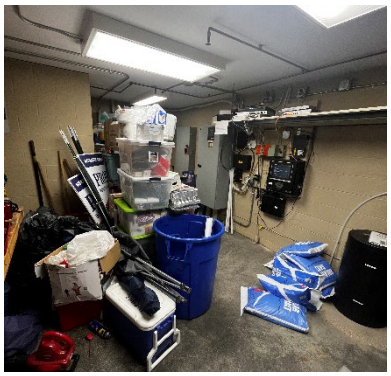
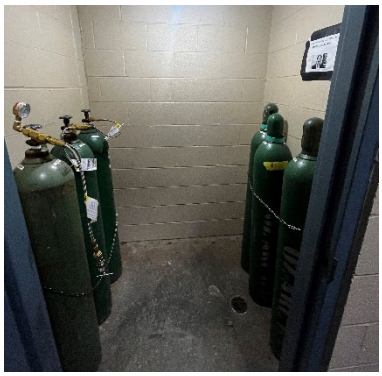
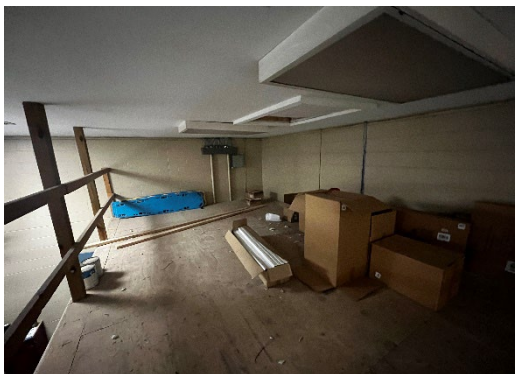
John G. Delly

APPENDIX B

PHOTOGRAPH LOG

	
Front of 7390 Highway O	**Side view of Station 3**
	
Gas tank on backside	**Back view of Station 3**
	
Utilities on exterior of building	**Side view of Station 3**
	
Front office	**Front bathroom**

	
Utility room	**Front hallway**
	
Kitchen	**Bedroom**
	
Bedroom bathroom	**Other bedroom**
	
Other bedroom bathroom	**Laundry room**

	
Living room	**Garage**
	
Overview of garage	**Storage room in garage**
	
Compressed cylinder storage	**Mezzanine**
	
HIPPA room unable to gain access	**Medicine storage**

APPENDIX C

XRF LEAD PAINT SUMMARY LOG SHEETS

LEAD PAINT SURVEY

Project Name: Station 3

Date Collected: December 17, 2025

On-Site Technician: Robert H. Hill II

Project Number: 23490

Project Location: 7900 Highway O

Instrument Used: Olympus Innox-X

SAMPLE	LOCATION	COMPONENT	CONDITION	SUBSTRATE	COLOR	RESULTS	POS/NEG	QUANTITY
001	Calibration	Coin	Intact	Metal	Silver	Pass	N/A	N/A
002	Calibration	SRM2570	Intact	Plastic	White	0.00±0.00	NEG	N/A
003	Calibration	SRM2573	Intact	Plastic	Red	1.18±0.05	POS	N/A
004	North Entrance	Wall	Intact	Cinderblock	Blue	0.00±0.00	NEG	N/A
005	North Entrance	Door	Intact	Metal	Gray	0.00±0.00	NEG	N/A
006	North Entrance	Door Frame	Intact	Metal	Gray	0.00±0.00	NEG	N/A
007	North Entrance	Fascia	Intact	Vinyl	Tan	0.00±0.00	NEG	N/A
008	North Entrance	Soffet	Intact	Vinyl	Tan	0.00±0.00	NEG	N/A
009	North Entrance	Garage Door	Intact	Metal	Gray	0.00±0.00	NEG	N/A
010	North Entrance	Garage Door Fram	Intact	Metal	Gray	0.00±0.00	NEG	N/A
011	North Entrance	Light Post	Intact	Metal	Brown	0.00±0.00	NEG	N/A
012	North Entrance	Gutter	Intact	Metal	Beige	0.00±0.00	NEG	N/A
013	Interior Office	Door Frame	Intact	Metal	Brown	0.00±0.00	NEG	N/A
014	Interior Office	Door	Intact	Wood	Brown	0.00±0.00	NEG	N/A
015	Interior Office	Window Frame	Intact	Wood	Brown	0.00±0.00	NEG	N/A
016	Lobby	South Wall	Intact	Drywall	Offwhite	0.00±0.00	NEG	N/A
017	Lobby	North Wall	Intact	Drywall	Offwhite	0.00±0.00	NEG	N/A
018	Kitchen/Living	East Wall	Intact	Drywall	Offwhite	0.00±0.00	NEG	N/A
019	Kitchen/Living	West Wall	Intact	Drywall	Offwhite	0.00±0.00	NEG	N/A
020	Laundry Room	North Wall	Intact	Drywall	Offwhite	0.00±0.00	NEG	N/A
021	Laundry Room	Ceiling Vent	Intact	Metal	White	0.00±0.00	NEG	N/A
022	Laundry Room	Door	Intact	Metal	Blue	0.00±0.00	NEG	N/A
023	Laundry Room	Door Frame	Intact	Metal	Blue	0.00±0.00	NEG	N/A
024	Rest Room	Shower	Intact	Fiberglass	Whte	0.00±0.00	NEG	N/A
025	Rest Room	North Wall	Intact	Drywall	Offwhite	0.00±0.00	NEG	N/A
026	Garage/Bay	Stripping	Intact	Concrete	Yellow	0.00±0.00	NEG	N/A
027	Garage/Bay	Stripping	Intact	Concrete	Yellow	0.00±0.00	NEG	N/A
028	Garage/Bay	North Wall	Intact	Cinderblock	Tan	0.00±0.00	NEG	N/A
029	Garage/Bay	South Wall	Intact	Cinderblock	Tan	0.00±0.00	NEG	N/A
030	Garage/Bay	East Wall	Intact	Cinderblock	Tan	0.00±0.00	NEG	N/A
031	Garage/Bay	West Wall	Intact	Cinderblock	Tan	0.00±0.00	NEG	N/A
032	Garage/Bay	Ceiling	Intact	Drywall	White	0.00±0.00	NEG	N/A
033	Garage/Bay	Electrical Box	Intact	Metal	Tan	0.00±0.00	NEG	N/A

LEAD PAINT SURVEY

Project Name: Station 3

Date Collected: December 17, 2025

On-Site Technician: Robert H. Hill II

Project Number: 23490

Project Location: 7900 Highway O

Instrument Used: Olympus Innox-X

SAMPLE	LOCATION	COMPONENT	CONDITION	SUBSTRATE	COLOR	RESULTS	POS/NEG	QUANTITY
034	Garage/Bay	Storage	Intact	Drywall	White	0.00±0.00	NEG	N/A
035	Mezzanine	Ceiling	Intact	Drywall	White	0.00±0.00	NEG	N/A
036	Mezzanine	Access Frame	Intact	Wood	White	0.00±0.00	NEG	N/A
037	Mezzanine	Access Door	Intact	Wood	White	0.00±0.00	NEG	N/A
038	Garage/Bay	Bracket	Intact	Metal	Brown	0.00±0.00	NEG	N/A
039	Calibration	Coin	Intact	Metal	Silver	Pass	N/A	N/A
040	Calibration	SRM2570	Intact	Plastic	White	0.00±0.00	NEG	N/A
041	Calibration	SRM2573	Intact	Plastic	Red	1.19±0.06	POS	N/A

APPENDIX D

LABORTATORY ACCREDITION AND

CERTIFICATIONS

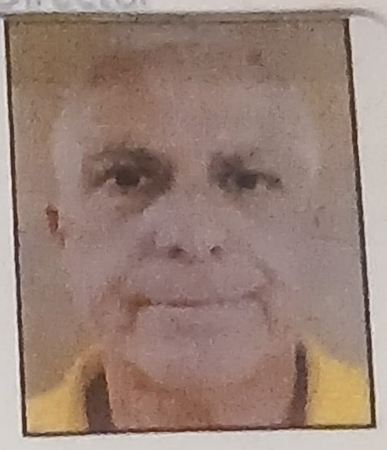
MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Mike Kehoe
Governor

Kurt U. Schaefer
Director

CERTIFICATION NUMBER:
7118072525MOIR2164

THIS CERTIFIES
Robert H Hill II
HAS COMPLETED THE CERTIFICATION
REQUIREMENTS FOR
Inspector



APPROVED: **07/25/2025** TRAINING DATE: **07/25/2025**
EXPIRES: **07/25/2026**

Director of Air Pollution Control Program

July 25, 2025

Robert H Hill II
608 N 43rd St
Belleville, IL 62226

RE: **Missouri Asbestos Occupation Certification Card**

Enclosed is your certification card for Asbestos Inspector, as issued by the Asbestos Unit of the Missouri Department of Natural Resources' Air Pollution Control Program.

Missouri Certification Number: 7118072525MOIR2164
Course Training Date: July 25, 2025
Missouri Certification Approval Date: July 25, 2025
Missouri Certification Expiration Date: July 25, 2026

Note:

- All Missouri-certified asbestos personnel must comply with the following statutes and regulations:
  - Sections 643.225 to 643.250, RSMo;
  - 10 CSR 10-6.241 *Asbestos Projects-Registration, Abatement, Notification, Inspection, Demolition, and Performance Requirements; and*
  - 10 CSR 10-6.250 *Asbestos Projects-Certification, Accreditation and Business Exemption Requirements.*
- To keep your occupation certification up-to-date, you must complete an annual refresher course and submit a renewal application each year.
- In order to be eligible to renew your certification, you must successfully complete a refresher course with a Missouri-accredited training provider within 12 months of the expiration date of your current training certificate. If you exceed this grace period, you will be required to retake a Missouri-accredited initial course in order to be eligible for Missouri certification.

To obtain a copy of the certification renewal application, or review regulations and requirements, please visit our website at http://dnr.mo.gov/env/apcp/asbestos/index.htm.

If you have any questions please call the Air Pollution Control Program at 573-751-4817.

AIR POLLUTION CONTROL PROGRAM

Director of Air Pollution Control Program

STATE OF MISSOURI
DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD ABATEMENT OCCUPATION LICENSE

Issued to:

Robert Hill

The person, firm or corporation whose name appears on this certificate has fulfilled the requirements for licensure as set forth in the Missouri Revised Statutes 701.300-701.338, as long as not suspended or revoked, and is hereby authorized to engage in the activity listed below.

Lead Risk Assessor
Category of License

Issuance Date:	**05/16/2025**
Expiration Date:	**05/16/2027**
License Number:	**010517-200133036**

Sarah Willson
Acting Director
Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102

Missouri
Division of Labor Standards
WAGE AND HOUR SECTION

MIKE KEHOE, Governor

Annual Wage Order No. 33

Section 036
FRANKLIN COUNTY

In accordance with Section 290.262 RSMo 2000, within thirty (30) days after a certified copy of this Annual Wage Order has been filed with the Secretary of State as indicated below, any person who may be affected by this Annual Wage Order may object by filing an objection in triplicate with the Labor and Industrial Relations Commission, P.O. Box 599, Jefferson City, MO 65102-0599. Such objections must set forth in writing the specific grounds of objection. Each objection shall certify that a copy has been furnished to the Division of Labor Standards, P.O. Box 449, Jefferson City, MO 65102-0449 pursuant to 8 CSR 20-5.010(1). A certified copy of the Annual Wage Order has been filed with the Secretary of State of Missouri.

Original Signed by
Logan Hobbs, Director
Division of Labor Standards

Filed With Secretary of State: **March 10, 2026**

Last Date Objections May Be Filed: **April 9, 2026**

Prepared by Missouri Department of Labor and Industrial Relations

FRANKLIN COUNTY

OCCUPATIONAL TITLE	**Prevailing Hourly Rate
Asbestos Worker	$45.98
Boilermaker	$30.66*
Bricklayer - Stone Mason	$69.57
Carpenter	$69.50
Lather	
Linoleum Layers & Cutter	
Millwright	
Pile Driver	
Cement Mason	$61.32
Plasterer	
Communication Technician	$30.66*
Electrician (Inside Wireman)	$77.65
Electrician (Outside Lineman)	$30.66*
Outside - Groundman	
Outside - Groundman Tree Trimmer	
Outside - Lineman Operator	
Outside - Lineman Tree Trimmer	
Elevator Constructor	$30.66*
Glazier	$71.65
Iron Worker	$74.68
Laborer	$56.22
Laborer - First Semi-Skilled	
Laborer - General	
Laborer - Second Semi-Skilled	
Laborer - Skilled	
Mason	$30.66*
Marble Finisher	
Marble Mason	
Terrazzo Finisher	
Terrazzo Worker	
Tile Finisher	
Tile Setter	
Operating Engineer	$76.26
Operating Engineer - Group I	
Operating Engineer - Group II	
Operating Engineer - Group III	
Operating Engineer - Group III - A	
Operating Engineer - Group IV	
Operating Engineer - Group V	
Painter	$58.48
Plumber	$83.78
Pipe Fitter	
Roofer/WaterProofer	$62.07
Sheet Metal Worker	$78.47
Sprinkler Fitter - Fire Protection	$72.60
Truck Driver	$30.66*
Truck Control Service Driver	
Truck Driver, Teamsters Group I	
Truck Driver, Teamsters Group II	
Truck Driver, Teamsters Group III	
Truck Driver, Teamsters Group IV	

*** The Division of Labor Standards received fewer than 1,000 reportable hours for this occupational title. The public works contracting minimum wage is established for this occupational title using data provided by Missouri Economic Research and Information Center.**

****The Prevailing Hourly Rate includes any applicable fringe benefit amounts for each occupational title as defined in RSMo Section 290.210.**

FRANKLIN COUNTY

OCCUPATIONAL TITLE	**Prevailing Hourly Rate
Carpenter	$68.50
Millwright	
Pile Driver	
Electrician (Outside Lineman)	$88.04
Outside - Groundman	
Outside - Groundman Tree Trimmer	
Outside - Lineman Operator	
Outside - Lineman Tree Trimmer	
Laborer	$57.52
Laborer - General	
Laborer - Skilled	
Operating Engineer	$76.73
Operating Engineer - Group I	
Operating Engineer - Group II	
Operating Engineer - Group III	
Operating Engineer - Group IV	
Truck Driver	$49.71
Truck Control Service Driver	
Truck Driver, Teamsters Group I	
Truck Driver, Teamsters Group II	
Truck Driver, Teamsters Group III	
Truck Driver, Teamsters Group IV	

Use Heavy Construction Rates on Highway and Heavy construction in accordance iwth the classifications of construction work established in 8 CSR 30-3.040(3).

Use Building Construction Rates on Building construction in accordance with the classifications of construction work established in 8 CSR 30-3.040(2).

If a worker is performing work on a heavy construction project within an occupational title that is not listed on the Heavy Construction Rate Sheet, use the rate for that occupational title shown on the Building Construction Rate Sheet.

***The Division of Labor Standards received fewer than 1,000 reportable hours for this occupational title. Public works contracting minimum wage is established for this occupational title using data provided by Missouri Economic Research and Information Center.**

****The Prevailing Hourly Rate includes any applicable fringe benefit amounts for each occupational title.**

OVERTIME
and
HOLIDAYS

OVERTIME

For all work performed on a Sunday or a holiday, not less than twice (2x) the prevailing hourly rate of wages for work of a similar character in the locality in which the work is performed or the public works contracting minimum wage, whichever is applicable, shall be paid to all workers employed by or on behalf of any public body engaged in the construction of public works, exclusive of maintenance work.

For all overtime work performed, not less than one and one-half (1½) the prevailing hourly rate of wages for work of a similar character in the locality in which the work is performed or the public works contracting minimum wage, whichever is applicable, shall be paid to all workers employed by or on behalf of any public body engaged in the construction of public works, exclusive of maintenance work or contractual obligation. For purposes of this subdivision, **"overtime work"** shall include work that exceeds ten hours in one day and work in excess of forty hours in one calendar week; and

A thirty-minute lunch period on each calendar day shall be allowed for each worker on a public works project, provided that such time shall not be considered as time worked.

HOLIDAYS

January first;
The last Monday in May;
July fourth;
The first Monday in September;
November eleventh;
The fourth Thursday in November; and
December twenty-fifth;

If any holiday falls on a Sunday, the following Monday shall be considered a holiday.

SECTION 00 31 00
AVAILABLE PROJECT INFORMATION

PART 1 GENERAL

1.01 EXISTING CONDITIONS

A. Certain information relating to existing structures is available to bidders but will not be part of Contract Documents, as follows:
   1. Hazardous Material Survey for Station #1, prepared by Sitex
   2. Hazardous Material Survey for Station #3, prepared by Sitex

1.02 PREVAILING WAGE

A. The Missouri Prevailing Wage Law requires that all workers employed on public works projects be paid the proper prevailing wage rate. The Missouri Division of Labor Standards Annual Wager Order No. 33 is included in Project Manual. Additional information is available on the Missouri Department of Labor website.
   1. Contractor shall provide required notice to the Department of Labor prior to beginning work.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

THIS PAGE INTENTIONALLY LEFT BLANK

This Bid Form must be completed, sealed in an envelope, and received by Meramec Ambulance District (Owner) no later than **2:00 PM local time on November 13, 2026**.

The undersigned BIDDER proposes and agrees, if this Bid is accepted, to enter into an agreement with Owner in the form included in the Bid Documents, and to perform all Work as specified or indicated in the Bid Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bid Documents.

Below is the contact for the BIDDER submitting this bid, who will be responsible for any questions that may arise during bid review and who may also be contacted to discuss the acceptance or rejection of this bid:

BIDDER Company Name	
BIDDER Contact Person Name, Title	
Address	
City/State/Zip	
Phone Number	
Email Address	

STIPULATED SUM BID FORM

Name of Project: **Meramec Ambulance District Stations No. 1 & 3**

Date: _____

Proposal from: _____

(Hereinafter called Bidder), a corporation organized and existing under the laws of the state of_____, a partnership, or an individual doing business as_____ (cross out inapplicable).

SUBMIT BIDS TO:

ATTN: Taz Meyer, Chief
Meramec Ambulance Station No. 3
7390 State Highway O
Robertsville, MO 63072

The Bidder, in compliance with the Instructions to Bidders for the project and having carefully examined the Bid Documents as set forth in the Project Manual, which documents are made a part hereof, as well as the site and all conditions surrounding and affecting the work, agrees to furnish all labor, materials, and supplies necessary to perform all the work in accordance with said documents and within the time and at the prices stated below.

BASE BID – MERAMEC AMBULANCE DISTRICT STATIONS #1 and #3

ITEM NO.	ITEM DESCRIPTION	SUB-TOTAL
1	Base Bid – Station #1	
2	Base Bid – Station #3	
3	Unforeseen Conditions Allowance	$80,000
4	Site Drainage Improvements Allowance	$125,000
5	Payment & Performance Bond	
6	Builder's Risk	
	TOTAL	

Total of lines above shall equal the Total Lump Sum Bid Below.

Furnish all labor, tools, equipment, and material required to perform all work indicated for the Meramec Ambulance District: Station #4 project, as defined in the Bid Documents for the TOTAL LUMP SUM AMOUNT of

$_____

TIME

Board approval and issuance of the Notice to Proceed is tentatively anticipated to occur by the end of December 2026. See 00 21 13 Instructions to Bidders for clarification on Contract Time. Bidder hereby states that the time required to perform all work indicated in the Bid Documents (and any accepted alternates) and work necessary to complete the project per the project per the duration proposed on this Bid Form is acceptable. Liquidated Damages shall be assessed for delays to Substantial Completion and are further described in the bid documents.

Bidders shall propose a contractual duration for achieving Substantial Completion in the blank space below. The proposed duration will be utilized as criteria for selection of the General Contractor. Bidder shall include anticipated adverse weather in the proposed contractual duration below.

Complete all work related to the new construction, site improvements, bid alternates, and anticipated base bid soil treatment / remediation to achieve Substantial Completion within _____ calendar days from the issuance of the Notice to Proceed.

Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use and the remaining outstanding work is considered minor. Additionally, Substantial Completion is the date by which all life safety and authorities having jurisdiction inspections have been approved and the punch list has been created.

ALTERNATES - To be submitted at the time of Bid. Bids will not be accepted if these alternates are not provided at the time of bid. Refer to Section 01 23 00 for full description of alternates.

Alternate 1 – Resinous Epoxy Flooring (Both Stations)

Add / Deduct (circle one): $ _____

Alternate 2 – Wood Doors (Both Stations)

Add / Deduct (circle one): $ _____

Alternate 3 – Apparatus Bay Finishes (Both Stations)

Add / Deduct (circle one): $ _____

Alternate 4 – Concrete Paving (Station #1 only)

Add / Deduct (circle one): $ _____

Alternate 5 – Siding (Station #3 only)

Add / Deduct (circle one): $ _____

ACKNOWLEDGEMENT OF BID DOCUMENTS AND ADDENDA

Bidder acknowledges receipt of the following Documents and Addenda, and the cost associated with all Addenda is included in the Base Bid:

1. Drawings and Specifications dated October 16, 2026
2. Addenda
    - Addenda No. _____ Dated _____
    - Addenda No. _____ Dated _____
    - Addenda No. _____ Dated _____
    - Addenda No. _____ Dated _____
    - Addenda No. _____ Dated _____

UNIT PRICES - To be submitted to Owner within 24 hours of the Bid Date and Time. Unit Prices for scope adjustments after award shall be provided for the items listed in section 01 22 00 – UNIT PRICES. Provide Unit Prices on the “Supplemental Bid Information” form provided in the Project Manual.

LIST OF PROPOSED SUBCONTRACTORS – To be submitted to Owner within 24 hours of the Bid Date and time. List all proposed subcontractors on the "Supplemental Bid Information" form provided in the Project Manual.

REFERENCES – To be submitted at the time of Bid.
Bids will not be accepted if references are not provided at the time of bid. Bidder shall provide at least three references of similar projects.

Company: _____

Address: _____

Contact Person: _____

Telephone: _____

Email: _____

Type of service provided: _____

Dates/year(s) service was provided: _____

Company: _____

Address: _____

Contact Person: _____

Telephone: _____

Email: _____

Type of service provided: _____

Dates/year(s) service was provided: _____

Company: _____

Address: _____

Contact Person: _____

Telephone: _____

Email: _____

Type of service provided: _____

Dates/year(s) service was provided: _____

QUALIFICATIONS – To be submitted at the time of Bid.

Organization

1. How many years has your organization been in business as a General Contractor? _____
2. How many years has your organization been in business under its present business name?_____
3. Under what other or former names has your organization operated?
   _____
   _____
4. How many persons do you have working for the company?
   Operators:____ Carpenters: _____ Laborers: _____
   Superintendents: _____ Office Management: _____ Other Trades: _____
5. List the categories of work your organization normally performs with its own forces, and identify which will be self-performed on this project.

   _____
   _____
   _____
   _____
   _____

6. What is your company's EMR? _____
7. What is your Total Recordable Incident Rate? _____
8. State the amount of the deductibles on all insurance that you will be providing for the Project:
   Workers Compensation Insurance: _____
   Commercial General Liability Insurance: _____
   Automobile Liability Insurance: _____
   Umbrella / Excess Liability: _____

Capacity

1. What was your organization's average annual construction volume over the past five (5) years? _____
2. What was the construction volume for your organization's most recently completed fiscal year? _____
3. What is your organization's average project size? _____

4. What is your organization's largest project size (contract value) completed in the past five (5) years? _____
5. What is your total value of work currently in progress and under contract? _____
6. What is your single project bonding capacity? _____
7. What is your aggregate bonding capacity? _____
8. What is your current available bonding capacity? _____

Experience

1. On a separate sheet list all projects completed by your organization in the past five (5) years, with a contract value of $2,000,000 or greater. List project name, client, architect, total contract value, date of completion and percentage of the cost of work performed with your own forces.

2. Identify any fire station, ambulance station, emergency services, or similar public facility projects completed within the past five (5) years. If none, state "None."

   _____
   _____
   _____
   _____

3. Identify any renovation projects completed within the past five (5) years. If none, state "None."

   _____
   _____
   _____
   _____

Proposed Project Personnel

1. Identify the proposed Project Manager and Superintendent and the length of experience of each.

   Project Manager - _____

   Superintendent - _____

2. Will a full-time, on-site Superintendent be assigned to this Project during active construction?

   Yes:_____No: _____

3. How many active projects is the proposed Project Manager currently managing?

   _____

Project Execution

Identify major anticipated long-lead materials or equipment

_____

_____

_____

_____

Claims And Suits

If the answer to any of the questions below is “yes”, please attach written description of details.

1. Has your organization ever failed to complete any work awarded to it?

   Yes: _____ No:_____

2. Are there any judgments, claims, arbitration proceedings, or suits pending or outstanding against your organization or its officers?

   Yes: _____ No:_____

3. Has your organization been party to any lawsuits or arbitration with regard to construction contracts within the last five (5) years?

   Yes: _____ No:_____

4. Have Liquidated Damages been assessed against your organization on any project in the past five (5) years?

   Yes: _____ No:_____

5. Has your organization had any prevailing wage violations or findings in the past three (3) years?

   Yes: _____ No:_____

6. Has your organization filed for bankruptcy or reorganization in the past seven (7) years?

   Yes: _____ No:_____

MISCELLANEOUS BID REQUIREMENTS

A. The undersigned understands that this bid shall be good and may not be withdrawn for a period of sixty (60) calendar days after the scheduled closing time and date for receiving bids.

B. The undersigned understands that the Owner reserves the right to reject any or all bids or subcontractors.

C. The undersigned further agrees to indemnify and save the Owner from and against all losses, judgments of every nature and description made, brought, or recovered against the Owner by reason of any act or omission of the undersigned, his agents, subcontractors, or employees in the execution of the work or in guarding the same.

D. The undersigned hereby declares that this Stipulated Sum Bid is based solely upon the materials and equipment described in the bidding documents (including Addenda), and that no substitutions are contemplated.

E. The Bidder declares that he/she has had an opportunity to examine the site of the work and he/she has examined the bidding Documents therefore, and that he/she has carefully prepared his/her Bid upon the basis thereof and that he/she has carefully examined and checked this Bid and the materials, equipment and labor required thereunder, the cost thereof, and the figures therefor, and hereby states that the amount or amounts set forth in this Bid is, or are, correct and that no mistake or error has occurred in this bid.

F. See next page for signatures.

IF A CORPORATION

Name of Corporation _____ Signature of Officer _____

Name and Title of Officer _____

Incorporated under the laws of the State of _____ (Print)

Licensed to do business in Missouri? (Check one) [ ] Yes [ ] No

Address for Communications _____

_____

(Seal if bid is by a corporation.)

IF A PARTNERSHIP State name and address of all partners. Each partner shall execute the Bid Form under their respective seals. Attach a copy of the Partnership / Joint Venture agreement to the Bid Form.

Name of Partnership _____ _____

_____

Signature of Authorized Partner _____ _____

_____

IF INDIVIDUAL

Name of Firm (if any) _____ _____

Address for Communications

Signature of Individual _____ _____

Name of Individual (Print) _____ _____

IF BIDDING AS A JOINT VENTURE List all parties, and indicate which party will be designated as the 'Lead.' Each party of the Joint Venture shall execute the Bid Form under their respective seals. Attach a copy of the Partnership / Joint Venture agreement to the Bid Form.

_____ _____

_____ _____

END OF SECTION

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SECTION 00 41 01
SUPPLEMENTAL BID INFORMATION

This form shall be completed and submitted in its entirety no later than 24 hours following the receipt of the bids to the Owner. Bidder must submit Supplemental Bid Information via email as follows:

Re: Meramec Ambulance District – New Construction – Supplemental Bid Information
Attn: Josh Hurford, Navigate Building Solutions, LLC. josh@navigatebuildingsolutions.com and
Taz Meyer, Meramec Ambulance District, meyer.t@meremecems.org.

Name of Project: Meramec Ambulance District Station No. 1 & 3

General Contractor Bid Package

Date: _____

Contractor: _____

COST BREAKOUT for Base Bid:

Bidder shall provide the breakout of costs for the following divisions of work that are **included** in the Base Bid.

Divisions 00-12 Scopes of Work

_____ DOLLARS ($_____).

Divisions 22 Scope of Work

_____ DOLLARS ($_____).

Divisions 23 Scope of Work

_____ DOLLARS ($_____).

Divisions 26, 27, 28 Scopes of Work

_____ DOLLARS ($_____).

UNIT PRICES: The unit prices below are to include all general conditions, overhead, profit, labor, materials, equipment and/or services necessary to fully complete the work. Rates are to be applied either as add or deduct rates; the same rate will apply for either condition. There will be only one rate allowed per unit price regardless of when in the construction process the rate is being applied, where the work is taking place, or what trade is performing it.

Unit Price Description	Unit	$/Unit
Unit Price No. 1: Concrete slab moisture mitigation under flooring	Per 100 SF	

LIST OF PROPOSED SUBCONTRACTORS

Please list the two subcontractors (if not your own workforce) in each category that the referenced Bidder is considering for subcontract award for materials, services, supplies, specialty contractors, etc. below. Also indicate if your firm has previously worked with the listed Subcontractor. Where not applicable for this Bid Package, please indicate "N/A." If you do not plan to use subcontractors, indicate below and return this form with your bid.

Scope of Work	Proposed Subcontractors	Have You Worked with Previously?
Selective Demolition		
Concrete Pavement Repairs	1. 2.	
Rough Carpentry	1. 2.	
Finish Carpentry	1. 2.	
Casework	1. 2.	
Countertops	1. 2.	
Doors / Frames / Hardware	1. 2.	
Framing / Sheetwork	1. 2.	

Acoustical Ceilings	1. 2.	
Flooring	1. 2.	
Painting	1. 2.	
Toilet Accessories / Specialties	1. 2.	
Plumbing	1. 2.	
HVAC	1. 2.	
Electrical and Communications	1. 2.	

Submitted By:

Bidder: _____

Address: _____

_____

Business Telephone: _____ Fax: _____

Typed/Printed Name: _____

Authorized Signature: _____

Title: _____

Date: _____

(Seal, if bid by a Corporation)

END OF SECTION

This page is intentionally blank.

SECTION 00 41 10
CONTRACTOR AFFIDAVIT FOR PUBLIC CONSTRUCTION PROJECTS

STATE OF _____

COUNTY OF _____

The undersigned being duly sworn does now state and depose as follows:

I am the_____(Title) of_____(Company) which is a Contractor for the and authorized to sign this Affidavit, on said Company's behalf.

I have verified the information set forth within this Affidavit, for the Contractor. If any Subcontractors have been retained for this Project, I have also verified said information, as to any Subcontractor.

The Contractor and all Subcontractors have Workers' Compensation Insurance that will cover all employees working on this Project and said Insurance shall meet or exceed all Requirements Established by Law.

The Contractor and all Subcontractors have confirmed the United States Citizenship or lawful status of all Workers employed on this Project and does not knowingly employ any person who is an unauthorized alien, in connection with said contracted services.

The Contractor and all Subcontractors have been informed by the Owner, of the requirements to pay Prevailing Wages and will pay said Prevailing Wages to all Workers employed on this Project, as established by the applicable Annual Wage Order No. 33, for Franklin County, State of Missouri or Federal Wage Order, or whichever may be greater.

The Contractor and all Subcontractors shall follow all applicable Federal Laws, requiring any Accredited Apprenticeship Program, wherever applicable.

The Contractor and all Subcontractors shall be enrolled and participate within a Federal Work Authorization Program, with respect to all employees working in connection with any contracted services.

The Contractor and all Subcontractors shall be in full accordance with 34.600, RSMo. The Contractor hereby affirms that they are not currently engaged in and shall not, for the duration of this Agreement, engage in any boycott of goods or services from the State of Israel, companies doing business in or with the State of Israel, or authorized by, licensed by, or organized under, the laws of the State of Israel, or persons, or entities doing business within the State of Israel.

Further Affiant sayeth naught.

_____
Authorized Officer of Contractor

Subscribed and sworn before me this _____day of _____, 20___.

_____
Notary Public

My commission expires:

_____

END OF SECTION

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SECTION 00 41 20

NON-COLLUSION AFFIDAVIT

State of:_____

County:_____

_____, being first duly sworn, deposes and says that

he/she is_____*(Sole Owner, Partner, President, Secretary, etc.)

of_____, the party making the foregoing Bid, that such bid is not made in the interest of, or on behalf of, any undisclosed Person, Partnership, Company, Association, Organization or Corporation. That such Bid is genuine and not sham or collusive, that said Bidder has not directly or indirectly induced or solicited any other Bidder to put in a false or sham Bid and has not directly or indirectly colluded, conspired, connived, or agreed with any other Bidder, or anyone else to put in a sham Bid, or that anyone shall refrain from Bidding, that said Bidder has not, in any manner, directly or indirectly, sought by agreement, communication or conference with anyone, to fix said Bid price of the Bidder, or of any other Bidder, or to fix any Overhead, Profit or Cost Element of such Bid price, or that of any other Bidder, or to secure any advantage against this Public Body awarding the Contract or anyone interested in this Proposed Contract, that all statements contained in such Bid are true and further, that said Bidder has not, directly or indirectly, submitted his Bid Price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid and will not pay any fee in connection therewith to any Corporation, Partnership, Company, Association, Organization, Bid Depository, or to any Member or Agent thereof, or to any other individual, except to such person or persons as have a Partnership or other financial interest with said Bidder in his general business.

Affiant further certifies that Bidder is not financially interested in, or financially affiliated with, any other Bidder for the above stated Project.

SIGNED:_____

TITLE:_____

Subscribed and sworn before me this _____day of_____, 20____.

_____

Notary Public

My commission expires:_____

*In completing this form any Title that is not applicable should be struck out. For example if the Contractor is a Corporation and this form is to be executed by its President, the words “Sole Owner, a Partner, Secretary, etc.” should be struck out.

END OF SECTION

WORKER ELIGIBILITY VERIFICATION AFFIDAVIT

(for joint ventures, a separate affidavit is required for each business entity)

STATE OF _____, COUNTY OF _____

On this _____ day of _____, 2025, before me appeared _____, personally known to me or proved to me on the basis of satisfactory evidence to be a person whose name is subscribed to this affidavit, who being by me duly sworn, deposed as follows:

My name is _____, and I am of sound mind, capable of making this affidavit, and personally certify the facts herein stated, as required by Section 285.530, RSMo, to enter into any contract agreement with the state to perform any job, task, employment, labor, personal services, or any other activity for which compensation is provided, expected, or due, including but not limited to all activities conducted by business entities.

I am the _____ of _____, and I am duly authorized, directed, and/or empowered to act officially and properly on behalf of this business entity.

I hereby affirm and warrant that the aforementioned business entity is enrolled in a federal work authorization program operated by the United States Department of Homeland Security to verify information of newly hired employees, and the aforementioned business entity shall participate in said program with respect to all employees working in connection to work under the within contract agreement. I have attached documentation to this affidavit to evidence enrollment/participation by the aforementioned business entity in a federal work authorization program, as required by Section 285.530, RSMo.

In addition, I hereby affirm and warrant that the aforementioned business entity does not and shall not knowingly employ, in connection to work under the within contract agreement, any alien who does not have the legal right or authorization under federal law to work in the United States, as defined in 8 U.S.C. § 1324a(h)(3).

I am aware and recognize that, unless certain contract and affidavit conditions are satisfied pursuant to Section 285.530, RSMo, the aforementioned business entity may be held liable under Sections 285.525 through 285.550, RSMo, for subcontractors that knowingly employ or continue to employ any unauthorized alien to work within the state of Missouri.

I acknowledge that I am signing this affidavit as a free act and deed of the aforementioned business entity and not under duress.

Further Affiant sayeth nnaught.

Affiant Signature

Subscribed and sworn to before me this _____ day of _____, 20_____.

Notary Public

My commission expires: _____

SECTION 00 52 00
AGREEMENT FORM

PART 1 GENERAL

1.01 FORM OF AGREEMENT

1.02 THE AGREEMENT TO BE EXECUTED IS ATTACHED FOLLOWING THIS PAGE.

A. AIA Document A101-2017 Standard Form of Agreement Between Owner and Contractor, where the basis of payment is a Stipulated Sum
   1. This document has been modified from its original version.

1.03 RELATED REQUIREMENTS

A. Section 00 52 01 - General Conditions.

B. Section 01 42 16 - Definitions.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

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AIA® Document A101® – 2017

Standard Form of Agreement Between Owner and Contractor *where the basis of payment is a Stipulated Sum*

AGREEMENT made as of the day of in the year 2026
(In words, indicate day, month and year.)

BETWEEN the Owner:
(Name, legal status, address and other information)

Meramec Ambulance District
3279 Highway 100
Villa Ridge, MO 63089

and the Contractor:
(Name, legal status, address and other information)

[TBD]

for the following Project:
(Name, location and detailed description)

Meramec Ambulance District
Station No. 1

429 E. Osage Street
Pacific, MO 63069
and
Station No. 3
7390 State Highway O
Robertsville, MO 63072

The Architect:
(Name, legal status, address and other information)

Archimages, Inc.
143 W. Clinton Place
Kirkwood, MO 63122

ADDITIONS AND DELETIONS:
The author of this document may have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

The parties should complete A101®–2017, Exhibit A, Insurance and Bonds, contemporaneously with this Agreement. AIA Document A201®–2017, General Conditions of the Contract for Construction, is adopted in this document by reference. Do not use with other general conditions unless this document is modified.

The Owner and Contractor agree as follows.

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TABLE OF ARTICLES

1 THE CONTRACT DOCUMENTS

2 THE WORK OF THIS CONTRACT

3 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

4 CONTRACT SUM

5 PAYMENTS

6 DISPUTE RESOLUTION

7 TERMINATION OR SUSPENSION

8 MISCELLANEOUS PROVISIONS

9 ENUMERATION OF CONTRACT DOCUMENTS

EXHIBIT A INSURANCE AND BONDS

The Owner's Representative for the Project shall be NAVIGATE Building Solutions ("NAVIGATE"). All communications between Contractor and Owner shall be through NAVIGATE on behalf of Owner. NAVIGATE has the authority to take all actions on behalf of the Owner permitted by the Contract Documents, with the sole exception of agreeing to any Modifications to the Contract. Only theDistrict's Chief, Taz Meyer, has the authority on behalf of the Owner to agree to any Change Order and/or to otherwise agree to authorize any Modifications, with it being understood and agreed that any Modifications to the Contract must be executed by Chief Taz Meyer on behalf of the Owner in order to be effective.

ARTICLE 1 THE CONTRACT DOCUMENTS

The Contract Documents consist of this Agreement, Conditions of the Contract (General, Supplementary, and other Conditions), Drawings, Specifications, Addenda issued prior to execution of this Agreement, other documents listed in this Agreement, and Modifications issued after execution of this Agreement, all of which form the Contract, and are as fully a part of the Contract as if attached to this Agreement or repeated herein. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral. An enumeration of the Contract Documents, other than a Modification, appears in Article 9.

ARTICLE 2 THE WORK OF THIS CONTRACT

The Contractor shall fully execute the Work described in the Contract Documents, except as specifically indicated in the Contract Documents to be the responsibility of others.

ARTICLE 3 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

§ 3.1 The date of commencement of the Work shall be:
(Check one of the following boxes.)

[ ] The date of this Agreement.

[**X**] A date set forth in a notice to proceed issued by the Owner.

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[ ] Established as follows:
(Insert a date or a means to determine the date of commencement of the Work.)

If a date of commencement of the Work is not selected, then the date of commencement shall be the date of this Agreement.

§ 3.2 The Contract Time shall be measured from the date of commencement of the Work.

§ 3.3 Substantial Completion

§ 3.3.1 Subject to adjustments of the Contract Time as provided in the Contract Documents, the Contractor shall achieve Substantial Completion of the entire Work within [XXX] calendar days from issuance of the Notice to Proceed. The Contract Time will not be adjusted for claims of adverse weather; Contractor has anticipated adverse weather in the proposed and accepted Contract Time.

[ ] Not later than ( ) calendar days from the date of commencement of the Work.

[ ] By the following date:

§ 3.3.2 Subject to adjustments of the Contract Time as provided in the Contract Documents, if portions of the Work are to be completed prior to Substantial Completion of the entire Work, the Contractor shall achieve Substantial Completion of such portions by the following dates:

Portion of Work	Substantial Completion Date

§ 3.3.3 If the Contractor fails to achieve Substantial Completion as provided in this Section 3.3, liquidated damages, if any, shall be assessed as set forth in Section 4.5.

ARTICLE 4 CONTRACT SUM

§ 4.1 The Owner shall pay the Contractor the Contract Sum in current funds for the Contractor's performance of the Contract. The Contract Sum shall be ($), subject to additions and deductions as provided in the Contract Documents.

§ 4.2 Alternates

§ 4.2.1 Alternates, if any, included in the Contract Sum:

Item	Price

§ 4.2.2 Subject to the conditions noted below, the following alternates may be accepted by the Owner following execution of this Agreement. Upon acceptance, the Owner shall issue a Modification to this Agreement.
(Insert below each alternate and the conditions that must be met for the Owner to accept the alternate.)

Item	Price	Conditions for Acceptance

§ 4.3 Allowances, if any, included in the Contract Sum:
(Identify each allowance.)

Item	Price

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§ 4.4 Unit prices, if any:
(Identify the item and state the unit price and quantity limitations, if any, to which the unit price will be applicable.)

Item	Units and Limitations	Price per Unit ($0.00)

§ 4.5 Liquidated damages, if any:
(Insert terms and conditions for liquidated damages, if any.)

Time is of the essence. If the Contractor fails to achieve Substantial Completion of the Contractor's Work within the period of XX calendar days from issuance of the Notice to Proceed (as such Contract Time may be adjusted by time extensions otherwise permitted by the Contract Documents), the Contractor shall pay, and the Owner will assess, Liquidated Damages in the amount of $2,000.00 per day for each calendar day until Substantial Completion of the Contractor's Work is achieved. The Owner may deduct any such Liquidated Damages from any amount due or payable to the Contractor.

Final Completion: In the event that the Contractor fails to timely complete all punch list items and all requirements necessary to achieve Final Completion of the Contractor's Work within 30 calendar days following Substantial Completion, Contractor shall be responsible to Owner for any actual damages that the Owner incurs due to such delay with regard to additional costs the Owner expends to its Architect and/or Owner's Representative. The Owner may deduct any such damages from amounts otherwise due the Contractor at Final Completion.

§ 4.6 Other:
(Insert provisions for bonus or other incentives, if any, that might result in a change to the Contract Sum.)

ARTICLE 5 PAYMENTS

§ 5.1 Progress Payments

§ 5.1.1 Based upon Applications for Payment submitted to the Architect by the Contractor and Certificates for Payment issued by the Architect, the Owner shall make progress payments on account of the Contract Sum to the Contractor as provided below and elsewhere in the Contract Documents.

§ 5.1.2 The period covered by each Application for Payment shall be one calendar month ending on the last day of the month, or as follows:

§ 5.1.3 Provided that an Application for Payment is received by the Architect not later than the 25th day of a month, the Owner shall make payment of the amount certified to the Contractor not later than the last day of the following month. If an Application for Payment is received by the Architect after the application date fixed above, payment of the amount certified shall be made by the Owner not later than ( ) days after the Architect receives the Application for Payment.
(Federal, state or local laws may require payment within a certain period of time.)

§ 5.1.4 Each Application for Payment shall be based on the most recent schedule of values submitted by the Contractor in accordance with the Contract Documents. The schedule of values shall allocate the entire Contract Sum among the various portions of the Work. The schedule of values shall be prepared in such form, and supported by such data to substantiate its accuracy, as the Architect may require. This schedule of values shall be used as a basis for reviewing the Contractor's Applications for Payment.

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§ 5.1.5 Applications for Payment shall show the percentage of completion of each portion of the Work as of the end of the period covered by the Application for Payment.

§ 5.1.6 In accordance with AIA Document A201™–2017, General Conditions of the Contract for Construction, and subject to other provisions of the Contract Documents, the amount of each progress payment shall be computed as follows:

§ 5.1.6.1 The amount of each progress payment shall first include:

.1 That portion of the Contract Sum properly allocable to completed Work;

.2 That portion of the Contract Sum properly allocable to materials and equipment delivered and suitably stored at the site for subsequent incorporation in the completed construction, or, if approved in advance by the Owner, suitably stored off the site at a location agreed upon in writing; and supported by the following documentation:

a) proof of stored materials, photographs of the material clearly labeled as "Property of Meramec Ambulance District";

b) certificate of insurance for facility where materials are stored, with indication of coverage for the stored materials;

c) copies of itemized invoices for the materials from the vendor/supplier

d) Bill of Sale;

.3 and that portion of Construction Change Directives that the Architect determines, in the Architect's professional judgment, to be reasonably justified.

§ 5.1.6.2 The amount of each progress payment shall then be reduced by:

.1 The aggregate of any amounts previously paid by the Owner;

.2 The amount, if any, for Work that remains uncorrected and for which the Architect has previously withheld a Certificate for Payment as provided in Article 9 of AIA Document A201–2017;

.3 Any amount for which the Contractor does not intend to pay a Subcontractor or material supplier, unless the Work has been performed by others the Contractor intends to pay;

.4 For Work performed or defects discovered since the last payment application, any amount for which the Architect may withhold payment, or nullify a Certificate of Payment in whole or in part, as provided in Article 9 of AIA Document A201–2017; and

.5 Retainage withheld pursuant to Section 5.1.7.

§ 5.1.7 Retainage

§ 5.1.7.1 For each progress payment made prior to Substantial Completion of the Work, the Owner may withhold the following amount, as retainage, from the payment otherwise due:
(Insert a percentage or amount to be withheld as retainage from each Application for Payment. The amount of retainage may be limited by governing law.)

5%
Retainage shall be invoiced and paid upon Substantial Completion of the Contractor's Work, less such amounts as are attributable to 150% of the value of incomplete work and unsettled claims.

§ 5.1.7.1.1 The following items are not subject to retainage:
(Insert any items not subject to the withholding of retainage, such as general conditions, insurance, etc.)

§ 5.1.7.2 Reduction or limitation of retainage, if any, shall be as follows:
(If the retainage established in Section 5.1.7.1 is to be modified prior to Substantial Completion of the entire Work, including modifications for Substantial Completion of portions of the Work as provided in Section 3.3.2, insert provisions for such modifications.)

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§ 5.1.7.3 Except as set forth in this Section 5.1.7.3, upon Substantial Completion of the Work, the Contractor may submit an Application for Payment that includes the retainage withheld from prior Applications for Payment pursuant to this Section 5.1.7. The Application for Payment submitted at Substantial Completion shall not include retainage as follows:

§ 5.1.8 If final completion of the Work is materially delayed through no fault of the Contractor, the Owner shall pay the Contractor any additional amounts in accordance with Article 9 of AIA Document A201–2017.

§ 5.1.9 Except with the Owner's prior approval, the Contractor shall not make advance payments to suppliers for materials or equipment which have not been delivered and stored at the site.

§ 5.2 Final Payment

§ 5.2.1

Final payment, constituting the entire unpaid balance of the Contract Sum minus disputed sums and authorized deductions, shall be made by the Owner to the Contractor thirty (30) days after all of the following conditions have been satisfied:

.1 The Contractor has fully performed the Contract except for the Contractor's responsibility to correct Work as provided in Article 12.2.2 of AIA Document A201–2017, and to satisfy other requirements, if any, which extend beyond final payment; and

.2 The Contractor has completed all Punch List items to the satisfaction of the Owner's Representative, Architect and Owner;

.3 A final Certificate for Payment has been issued by the Architect;

.4 The Contractor has delivered all closeout Documentation required under the Contractor Documents, which include

i. one original final release of claims from Contractor (AIA G706 and G706A);
ii. operation and maintenance instructions/manuals;
iii. marked-up as-built drawings;
iv. standard and extended warranties from every subcontractor;
v. list of names, addresses and telephone numbers for all subcontractors and others providing guarantees and warranties;
vi. one original of final certified payrolls from Contractor and all lower tiered subcontractors;
vii. original affidavit of compliance with prevailing wage laws from Contractor and all lower tiered subcontractors;
viii. testing and balancing reports, reviewed and approved by the Architect;
ix. any other closeout documents reasonably required by the Owner;

.5 The Contractor can provide proof that surveyed utility as-builts required by project documents have been submitted to the AHJ's;

.6 the applicable governmental authorities have released to the Owner any escrows or deposits held for the restoration of the site, for stormwater or water quality measures, or for other Work that falls under this Contractor's scope; and

.7 The applicable governmental authorities have issued to the Owner the final use and occupancy permit for the Project.

.8 The Contractor has provided proof of continuing insurance as required by the Contract;

.

§ 5.2.2 The Owner's final payment to the Contractor shall be made no later than 30 days after the issuance of the Architect's final Certificate for Payment, or as follows:

§ 5.3 Interest

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Payments due and unpaid under the Contract shall bear interest from the date payment is due at the rate stated below, or in the absence thereof, at the legal rate prevailing from time to time at the place where the Project is located.
(Insert rate of interest agreed upon, if any.)

%

ARTICLE 6 DISPUTE RESOLUTION
§ 6.1 Initial Decision Maker – Not Used

§ 6.2 Binding Dispute Resolution
For any Claim subject to, but not resolved by, mediation pursuant to Article 15 of AIA Document A201–2017, the method of binding dispute resolution shall be as follows:
(Check the appropriate box.)

[X] Arbitration pursuant to Section 15.4 of AIA Document A201–2017

[ ] Litigation in a court of competent jurisdiction

[ ] Other *(Specify)*

If the Owner and Contractor do not select a method of binding dispute resolution, or do not subsequently agree in writing to a binding dispute resolution method other than litigation, Claims will be resolved by litigation in a court of competent jurisdiction.

ARTICLE 7 TERMINATION OR SUSPENSION
§ 7.1 The Contract may be terminated by the Owner or the Contractor as provided in Article 14 of AIA Document A201–2017.

§ 7.1.1

Not Used

§ 7.2 The Work may be suspended by the Owner as provided in Article 14 of AIA Document A201–2017.

ARTICLE 8 MISCELLANEOUS PROVISIONS
§ 8.1 Where reference is made in this Agreement to a provision of AIA Document A201–2017 or another Contract Document, the reference refers to that provision as amended or supplemented by other provisions of the Contract Documents.

§ 8.2 The Owner's representative:
(Name, address, email address, and other information)

Taz Meyer, Chief
Meramec Ambulance District

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3279 Highway 100
Villa Ridge, MO 63089

§ 8.3 The Contractor's representative:
(Name, address, email address, and other information)

§ 8.4 Neither the Owner's nor the Contractor's representative shall be changed without ten days' prior notice to the other party.

§ 8.5 Insurance and Bonds

§ 8.5.1 The Owner and the Contractor shall purchase and maintain insurance as set forth in Exhibit A, Insurance and Bonds, and elsewhere in the Contract Documents. All insurance policies shall include an ISO Additional Insured Endorsement listing the Owner and the Owner's Representative as additional insureds on a primary basis with Owner and Owner's Representative insurance excess and not contributory. General Liability and Auto policies shall contain a waiver of subrogation in favor of the Owner and its officers, directors and employees. Insurance company shall provide thirty (30) days' written notice prior to modification or cancellation of such insurance.

§ 8.5.2 The Contractor shall provide bonds as set forth in Exhibit A, and elsewhere in the Contract Documents.

§ 8.6 Notice in electronic format, pursuant to Article 1 of AIA Document A201–2017, may be given in accordance with AIA Document E203™–2013, Building Information Modeling and Digital Data Exhibit, if completed, or as otherwise set forth below:
(If other than in accordance with AIA Document E203–2013, insert requirements for delivering notice in electronic format such as name, title, and email address of the recipient and whether and how the system will be required to generate a read receipt for the transmission.)

§ 8.7 Other provisions:

§8.7.1 Tax Exemption: The Owner intends to use the tax exempt purchase procedure authorized by Section 144.062 MoRS.

§8.7.2 Prevailing Wage: Not less than the prevailing hourly rate of wages, as set out in the wage order attached to and made part of the specification for work under the contract, shall be paid to all workers performing work under this contract. The Contractor will forfeit a penalty to the contracting public body of $100 per day (or portion of a day) for each worker that is paid less than the prevailing wage rate for any work done under the contract by the Contractor or by any subcontractor. The Contractor and all subcontractors to the contract must require all on-site employees to complete the ten-hour construction safety training program required under Section 292.675, RSMo, unless they have previously completed the program and have documentation of having done so. The Contractor will forfeit a penalty to the contracting public body of $2500 plus an additional $100 for each employee by the Contractor or subcontractor, for each calendar day, or portion thereof, such employee is employeed without the required training.

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§8.7.3 Certified Payroll: The Contractor and each Subcontractor shall submit, monthly, certified payroll for each week from the start of their Work through the completion of their Work. Refer to Missouri Department of Labor – Contractor Check-off List and Instructions Sheet for Contractor Payroll Records.

§8.7.4 Permits: Owner shall pay for the building permit and fire permit. Contractor shall pick up the building and fire permits. Contractor shall obtain and pay for all other permits, licenses and approvals as applicable to the Contractor's Work.

§8.7.5 Equal Employment Opportunity:

A. During performance of this contract, the Contractor agrees as follows:

1. The Contractor will not discriminate against any employee or applicant for employment because of race, religion, color, sex, or national origin. The Contractor will take positive action to insure that applicants are employed and that employees are treated during employment without regard to their race, religion, color, sex, or national origin. Such action shall include but not be limited to the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertisement; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notice setting forth the requirements of these nondiscrimination provisions.
2. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, religion, color, sex, or national origin.
3. The Contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding a notice advising the labor union or worker's representative of the Contractor's equal opportunity commitments, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
4. In the event of the Contractor's non-compliance with the Equal Opportunity conditions of this contract or with any of such rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part.
5. The Contractor will include all of clauses 1 through 4 inclusive in every subcontract or purchase order, so that such provisions will be binding upon each subcontractor or vendor.

B. Exemptions to the above Equal Opportunity Conditions are construction contracts and subcontracts not exceeding $10,000.

C. Unless otherwise provided, the above Equal Opportunity provisions are required to be inserted in subcontracts at the site of construction.

D. Certification of Nonsegregated Facilities - Bidders are cautioned as follows: By signing this bid or offer, the bidder will be deemed to have signed and agreed to the provisions of the "Certification of Nonsegregated Facilities" in this solicitation. The certification provides that the bidder does not maintain or provide for his employees facilities which are segregated on a basis of race, creed, color, or national origin, whether such facilities are segregated by directive or on a de facto basis. The certification also provides that he will not maintain such segregated facilities. Failure of a bidder to agree to the Certification of Nonsegregated Facilities will render his bid or offer non-responsive to the terms of solicitations involving award of contracts exceeding $10,000.

E. Contractor hereby represents, warrants and certifies that Contractor, its subcontractors, or any of the employees of either are not currently engaged in, and shall not for the duration of the Contract engage in, a boycott of goods or services from: the State of Israel; companies doing business in or with Israel or authorized by, licensed by, or organized under the State of Israel; or, persons or entities doing business in the State of Israel. This certification shall be interpreted consistent and in conformity with the Missouri Anti-Discrimination Against Israel Act, 34.600 Revised Statutes of Missouri.

§8.7.6 Domestic Procurement Act: The Owner encourages the purchases of products above $25,000 to be manufactured or produced in the United States. This policy shall apply to all purchases or leases of manufactured goods or commodities by vendors and contractors engaged by the Owner, and shall apply to construction, alteration, repair, or maintenance of any public works respecting the Owner's operations.

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§**8.7.7 Consequential Damages:** Contractor waives all claims for consequential damages against the Owner and Owner's Representative arising out of this Agreement and/or the performance of the Owner's obligations thereunder.

ARTICLE 9 ENUMERATION OF CONTRACT DOCUMENTS

§ 9.1 This Agreement is comprised of the following documents:

.1 AIA Document A101™–2017, Standard Form of Agreement Between Owner and Contractor
.2 AIA Document A201™–2017, General Conditions of the Contract for Construction
.3 Exhibit A, Insurance and Bonds

.4 Exhibit B: Bid Proposal Form and Bid Bond
.5 Exhibit C: Supplemental Bid Information Form
.6 Exhibit D: Not Used
.7 Exhibit E: Change Order Calculations
.8 *Exhibit F: Contract Document Log (Drawings, Specifications and Front Ends)*

[ ] AIA Document E204™–2017, Sustainable Projects Exhibit, dated as indicated below:

[ ] The Sustainability Plan:

[ ] Supplementary and other Conditions of the Contract:

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This Agreement entered into as of the day and year first written above.

OWNER *(Signature)*	**CONTRACTOR** *(Signature)*
BY:	BY:
(Printed name and title)	*(Printed name and title)*

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AIA® Document A201® – 2017

General Conditions of the Contract for Construction

for the following PROJECT:
(Name and location or address)

Meramec Ambulance District

Station No. 1
429 E. Osage Street
Pacific, MO 63069

and

Station No. 3
7390 State Highway O
Robertsville, MO 63072

THE OWNER:
(Name, legal status and address)

Meramec Ambulance District
3279 Highway 100
Villa Ridge, MO 63089

THE ARCHITECT:
(Name, legal status and address)

Archimages, Inc.
143 W. Clinton Place
Kirkwood, MO 63122

ADDITIONS AND DELETIONS:
The author of this document may have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

For guidance in modifying this document to include supplementary conditions, see AIA Document A503™–2017, Guide for Supplementary Conditions.

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The Owner's Representative for the Project shall be Navigate Building Solutions ("Navigate"). All communications between Contractor and Owner shall be through Navigate on behalf of Owner. Navigate has the authority to take all actions on behalf of the Owner permitted by the Contract Documents, with the sole exception of agreeing to any Modifications to the Contract. Only the District Chief, Taz Meyer, has the authority on behalf of the Owner to agree to any Change Order and/or to otherwise agree to authorize any Modifications, with it being understood and agreed that any Modifications to the Contract must be executed by Chief Taz Meyer on behalf of the Owner in order to be effective.

ARTICLE 1 GENERAL PROVISIONS

§ 1.1 Basic Definitions

§ 1.1.1 The Contract Documents

The Contract Documents are enumerated in the Agreement between the Owner and Contractor (hereinafter the Agreement) and consist of the Agreement, Conditions of the Contract (General, Supplementary and other Conditions), Exhibits to the Agreement, Drawings, Specifications, Addenda issued prior to execution of the Contract, The Contractor's Affidavit for Public Construction Projects, Non-Collusion Affidavit, Missouri Annual Wage Order and other documents listed in the Agreement, and Modifications issued after execution of the Contract. A Modification is (1) a written amendment to the Contract signed by both parties, (2) a Change Order, (3) a Construction Change Directive, or (4) a written order for a minor change in the Work issued by the Architect. Unless specifically enumerated in the Agreement, the Contract Documents do not include the advertisement or invitation to bid, Instructions to Bidders, sample forms, other information furnished by the Owner in anticipation of receiving bids or proposals, the Contractor's bid or proposal, or portions of Addenda relating to bidding or proposal requirements.

§ 1.1.2 The Contract

The Contract Documents form the Contract for Construction. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral. The Contract may be amended or modified only by a Modification. The Contract Documents shall not be construed to create a contractual relationship of any kind (1) between the Contractor and the Architect or the Architect's consultants, (2) between the Owner and a Subcontractor or a Sub-subcontractor, (3) between the Owner and the Architect or the Architect's consultants, or (4) between any persons or entities other than the Owner and the Contractor. The Architect shall, however, be entitled to performance and enforcement of obligations under the Contract intended to facilitate performance of the Architect's duties.

§ 1.1.3 The Work

The term "Work" means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all other labor, materials, equipment, and services provided or to be provided by the Contractor to fulfill the Contractor's obligations. The Work may constitute the whole or a part of the Project.

§ 1.1.4 The Project

The Project is the total construction of which the Work performed under the Contract Documents may be the whole or a part and which may include construction by the Owner and by Separate Contractors.

§ 1.1.5 The Drawings

The Drawings are the graphic and pictorial portions of the Contract Documents showing the design, location and dimensions of the Work, generally including plans, elevations, sections, details, schedules, and diagrams.

§ 1.1.6 The Specifications

The Specifications are that portion of the Contract Documents consisting of the written requirements for materials, equipment, systems, standards and workmanship for the Work, and performance of related services.

§ 1.1.7 Instruments of Service

Instruments of Service are representations, in any medium of expression now known or later developed, of the tangible and intangible creative work performed by the Architect and the Architect's consultants under their respective professional services agreements. Instruments of Service may include, without limitation, studies, surveys, models, sketches, drawings, specifications, and other similar materials.

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§ 1.1.8 Initial Decision Maker

There will be no Initial Decision Maker on this Project.

§ 1.1.9 Float

Float is a measurement of time indicating how late any activity or group of activities in a schedule can be completed without impacting the critical path and the scheduled end date of the Project. Float belongs to the Project and is not for exclusive use of the Contractor and is not intended to be used for non-excused delays identified in 8.3.1.

§ 1.2 Correlation and Intent of the Contract Documents

§ 1.2.1 The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all; performance by the Contractor shall be required only to the extent consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the indicated results.

§ 1.2.1.1 The invalidity of any provision of the Contract Documents shall not invalidate the Contract or its remaining provisions. If it is determined that any provision of the Contract Documents violates any law, or is otherwise invalid or unenforceable, then that provision shall be revised to the extent necessary to make that provision legal and enforceable. In such case the Contract Documents shall be construed, to the fullest extent permitted by law, to give effect to the parties' intentions and purposes in executing the Contract.

§ 1.2.2 Organization of the Specifications into divisions, sections and articles, and arrangement of Drawings shall not control the Contractor in dividing the Work among Subcontractors or in establishing the extent of Work to be performed by any trade.

§ 1.2.3 Unless otherwise stated in the Contract Documents, words that have well-known technical or construction industry meanings are used in the Contract Documents in accordance with such recognized meanings.

§ 1.3 Capitalization

Terms capitalized in these General Conditions include those that are (1) specifically defined, (2) the titles of numbered articles, or (3) the titles of other documents published by the American Institute of Architects.

§ 1.4 Interpretation

In the interest of brevity the Contract Documents frequently omit modifying words such as "all" and "any" and articles such as "the" and "an," but the fact that a modifier or an article is absent from one statement and appears in another is not intended to affect the interpretation of either statement.

§ 1.4.1 In the event of discrepancies or conflicts among or between the Contract Documents or observable conditions exist, the Contractor shall request an interpretation in writing from the Owner and Architect before proceeding with the Work. If the Contractor fails to request such interpretation from the Architect, it is presumed that the more stringent, better quality or higher quantity requirement is included in the Work. The Contractor shall be responsible for the cost and installation of such requirement at no additional cost to the Owner. Before ordering any materials or doing any Work, the Contractor shall verify measurements at the Project site and shall be responsible for correctness of such measurements. Any difference which may be found shall be submitted to the Architect for interpretation before proceeding with the Work as a condition precedent to any claim for an increase in the Contract Sum. If conflict among various provisions of the Contract Documents is found, and the quality or stringency of the conflicts are not in question, the terms shall be interpreted in the following order of priority:

.1 Modifications to the Contract
.2 The Contract
.3 Special Conditions
.4 General Conditions

Drawings shall control over Specifications, and details in drawings shall control over large-scale drawings.

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§ 1.5 Ownership and Use of Drawings, Specifications, and Other Instruments of Service

§ 1.5.1 The drawings, specifications, and other instruments of service are owned by the Owner. The Contractor, Subcontractors, Sub- subcontractors, and suppliers shall not own or claim a copyright in the Instruments of Service. Submittal or distribution to meet official regulatory requirements or for other purposes in connection with the Project is not to be construed as publication in derogation of the Owner's reserved rights.

§ 1.5.2 The Contractor, Subcontractors, Sub-subcontractors, and suppliers are authorized to use and reproduce the Instruments of Service provided to them, subject to any protocols established pursuant to Sections 1.7 and 1.8, solely and exclusively for execution of the Work. All copies made under this authorization shall bear the copyright notice, if any, shown on the Instruments of Service. The Contractor, Subcontractors, Sub-subcontractors, and suppliers may not use the Instruments of Service on other projects or for additions to the Project outside the scope of the Work without the specific written consent of the Owner, Architect, and the Architect's consultants.

§ 1.6 Notice

§ 1.6.1 Except as otherwise provided in Section 1.6.2, where the Contract Documents require one party to notify or give notice to the other party, such notice shall be provided in writing to the designated representative of the party to whom the notice is addressed and shall be deemed to have been duly served if delivered in person, by mail, by courier, or by electronic transmission if a method for electronic transmission is set forth in the Agreement.

§ 1.6.2 Notice of Claims as provided in Section 15.1.3 shall be provided in writing and shall be deemed to have been duly served only if delivered to the designated representative of the party to whom the notice is addressed by certified or registered mail, or by courier providing proof of delivery.

§ 1.7 Digital Data Use and Transmission

The parties shall agree upon protocols governing the transmission and use of Instruments of Service or any other information or documentation in digital form. The parties will use AIA Document E203™–2013, Building Information Modeling and Digital Data Exhibit, to establish the protocols for the development, use, transmission, and exchange of digital data.

§ 1.8 Building Information Models Use and Reliance

Any use of, or reliance on, all or a portion of a building information model without agreement to protocols governing the use of, and reliance on, the information contained in the model and without having those protocols set forth in AIA Document E203™–2013, Building Information Modeling and Digital Data Exhibit, and the requisite AIA Document G202™–2013, Project Building Information Modeling Protocol Form, shall be at the using or relying party's sole risk and without liability to the other party and its contractors or consultants, the authors of, or contributors to, the building information model, and each of their agents and employees.

ARTICLE 2 OWNER

§ 2.1 General

§ 2.1.1 The Owner is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Owner shall designate in writing a representative who shall have express authority to bind the Owner with respect to all matters requiring the Owner's approval or authorization. Except as otherwise provided in Section 4.2.1, the Architect does not have such authority. The term "Owner" means the Owner or the Owner's authorized representative.

§

§ 2.3 Information and Services Required of the Owner

§ 2.3.1 Except for permits and fees that are the responsibility of the Contractor under the Contract Documents, including those required under Section 3.7.1, the Owner shall secure and pay for necessary approvals, easements, assessments and charges required for construction, use or occupancy of permanent structures or for permanent changes in existing facilities.

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§ 2.3.2 The Owner shall retain an architect lawfully licensed to practice architecture, or an entity lawfully practicing architecture, in the jurisdiction where the Project is located. That person or entity is identified as the Architect in the Agreement and is referred to throughout the Contract Documents as if singular in number.

§ 2.3.3 If the employment of the Architect terminates, the Owner shall employ a successor to whom the Contractor has no reasonable objection and whose status under the Contract Documents shall be that of the Architect.

§ 2.3.4 The Owner shall furnish surveys describing physical characteristics, legal limitations and utility locations for the site of the Project, and a legal description of the site. The Contractor shall be entitled to rely on the accuracy of information furnished by the Owner but shall exercise proper precautions relating to the safe performance of the Work.

§ 2.3.5 The Owner shall furnish information or services required of the Owner by the Contract Documents with reasonable promptness. The Owner shall also furnish any other information or services under the Owner's control and relevant to the Contractor's performance of the Work with reasonable promptness after receiving the Contractor's written request for such information or services.

§ 2.3.6 Unless otherwise provided in the Contract Documents, the Owner shall furnish to the Contractor one copy of the Contract Documents for purposes of making reproductions pursuant to Section 1.5.2. Digital copies will be provided at no cost.

§ 2.4 Owner's Right to Stop the Work

If the Contractor fails to correct Work that is not in accordance with the requirements of the Contract Documents as required by Section 12.2 or repeatedly fails to carry out Work in accordance with the Contract Documents, the Owner may issue a written order to the Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, the right of the Owner to stop the Work shall not give rise to a duty on the part of the Owner to exercise this right for the benefit of the Contractor or any other person or entity, except to the extent required by Section 6.1.3.

§ 2.5 Owner's Right to Carry Out the Work

If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents and fails within a ten-day period after receipt of notice from the Owner to commence and continue correction of such default or neglect with diligence and promptness, the Owner may, without prejudice to other remedies the Owner may have, correct such default or neglect. Such action by the Owner and amounts charged to the Contractor are both subject to prior approval of the Architect and the Architect may, pursuant to Section 9.5.1, withhold or nullify a Certificate for Payment in whole or in part, to the extent reasonably necessary to reimburse the Owner for the reasonable cost of correcting such deficiencies, including Owner's expenses and compensation for the Architect's additional services made necessary by such default, neglect, or failure. If current and future payments are not sufficient to cover such amounts, the Contractor shall pay the difference to the Owner. If the Contractor disagrees with the actions of the Owner or the Architect, or the amounts claimed as costs to the Owner, the Contractor may file a Claim pursuant to Article 15. In lieu of correcting defective Work, the Owner may in its discretion decide to accept such defective Work and backcharge the Contractor a reasonable amount equivalent to what it would have cost to replace the defective Work.

§ 2.6 Architect's and Owner's Representative's Compensation for Services to Remedy Defective Work

When the Architect's and Owner's Representative's additional services are required because of defective work, neglect, failure, deficiencies, or default by the Contractor, the Contractor shall be responsible to the Owner for the cost of such additional services.

ARTICLE 3 CONTRACTOR

§ 3.1 General

§ 3.1.1 The Contractor is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Contractor shall be lawfully licensed, if required in the jurisdiction where the Project is located. The Contractor shall designate in writing a representative who shall have express authority to bind the Contractor with respect to all matters under this Contract. The term "Contractor" means the Contractor or the Contractor's authorized representative.

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§ 3.1.2 The Contractor shall perform the Work in accordance with the Contract Documents.

§ 3.1.3 The Contractor shall not be relieved of its obligations to perform the Work in accordance with the Contract Documents either by activities or duties of the Architect in the Architect's administration of the Contract, or by tests, inspections or approvals required or performed by persons or entities other than the Contractor.

§ 3.2 Review of Contract Documents and Field Conditions by Contractor

§ 3.2.1 Execution of the Contract by the Contractor is a representation that the Contractor has visited the site, become generally familiar with local conditions under which the Work is to be performed, and correlated personal observations with requirements of the Contract Documents.

§ 3.2.2 Because the Contract Documents are complementary, the Contractor shall, before starting each portion of the Work, carefully study and compare the various Contract Documents relative to that portion of the Work, as well as the information furnished by the Owner pursuant to Section 2.3.4, shall take field measurements of any existing conditions related to that portion of the Work, and shall observe any conditions at the site affecting it. These obligations are for the purpose of facilitating coordination and construction by the Contractor and are not for the purpose of discovering errors, omissions, or inconsistencies in the Contract Documents; however, the Contractor shall promptly report to the Architect any errors, inconsistencies or omissions discovered by or made known to the Contractor as a request for information in such form as the Architect may require. It is recognized that the Contractor's review is made in the Contractor's capacity as a contractor and not as a licensed design professional, unless otherwise specifically provided in the Contract Documents.

§ 3.2.3 The Contractor is not required to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, but the Contractor shall promptly report to the Architect any nonconformity discovered by or made known to the Contractor as a request for information in such form as the Architect may require.

§ 3.2.4 If the Contractor believes that additional cost or time is involved because of clarifications or instructions the Architect issues in response to the Contractor's notices or requests for information pursuant to Sections 3.2.2 or 3.2.3, the Contractor shall submit Claims as provided in Article 15. If the Contractor fails to perform the obligations of Sections 3.2.2 or 3.2.3, the Contractor shall pay such costs and damages to the Owner, subject to Section 15.1.7, as would have been avoided if the Contractor had performed such obligations. If the Contractor performs those obligations, the Contractor shall not be liable to the Owner or Architect for damages resulting from errors, inconsistencies or omissions in the Contract Documents, for differences between field measurements or conditions and the Contract Documents, or for nonconformities of the Contract Documents to applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities.

§ 3.2.5 If the Contractor performs any Work involving an apparent error, inconsistency, ambiguity, construction impracticality, omission or code violation in the Contract Documents of which the Contractor has actual knowledge, without prompt written notice to the Owner and the Architect and request for correction, clarification or additional information, as appropriate, the Contractor does so at its own risk and expense and all claims relating thereafter are specifically waived.

§ 3.3 Supervision and Construction Procedures

§ 3.3.1 The Contractor shall supervise and direct the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for, and have control over, construction means, methods, techniques, sequences, and procedures, and for coordinating all portions of the Work under the Contract. If the Contract Documents give specific instructions concerning construction means, methods, techniques, sequences, or procedures, the Contractor shall evaluate the jobsite safety thereof and shall be solely responsible for the jobsite safety of such means, methods, techniques, sequences, or procedures. If the Contractor determines that such means, methods, techniques, sequences or procedures may not be safe, the Contractor shall give timely notice to the Owner and Architect, and shall propose alternative means, methods, techniques, sequences, or procedures. The Architect shall evaluate the proposed alternative solely for conformance with the design intent for the completed construction.

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Unless the Architect objects to the Contractor's proposed alternative, the Contractor shall perform the Work using its alternative means, methods, techniques, sequences, or procedures.

§ 3.3.2 The Contractor shall be responsible to the Owner for acts and omissions of the Contractor's employees, Subcontractors and their agents and employees, and other persons or entities performing portions of the Work for, or on behalf of, the Contractor or any of its Subcontractors.

§ 3.3.3 The Contractor shall be responsible for inspection of portions of Work already performed to determine that such portions are in proper condition to receive subsequent Work.

§ 3.4 Labor and Materials

§ 3.4.1 Unless otherwise provided in the Contract Documents, the Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for proper execution and completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

§ 3.4.2 Except in the case of minor changes in the Work approved by the Architect in accordance with Section 3.12.8 or ordered by the Architect in accordance with Section 7.4, the Contractor may make substitutions only with the consent of the Owner, after evaluation by the Architect and in accordance with a Change Order or Construction Change Directive.

§ 3.4.3 The Contractor shall enforce strict discipline and good order among the Contractor's employees and other persons carrying out the Work. The Contractor shall not permit employment of unfit persons or persons not properly skilled in tasks assigned to them.

§ 3.4.3.1 The Contractor / Sub Contractors / Sub-Sub Contractors shall provide a sworn affidavit and verification that they are registered with the U.S. Citizenship and Immigration Services E-Verify service and have records of all employees working on this project. Provide records to Owner.

§ 3.4.3.2 The Contractor is responsible for OSHA required safety railings, including installation, maintenance, and removal) and appropriate OSHA approved roof edge protection for all trades.

§ 3.4.3.3 The Contractor shall, at all times, employ sufficient labor and equipment for prosecuting the Work to full completion in the manner and time required by the Contract Documents. All workmen shall have sufficient skill and experience to properly perform the work assigned to them.

§ 3.4.3.4 The Contractor is responsible for securing the building once it is reasonably possible to do so with temporary or permanent measures at the close of every
day. Any temporary openings in walls are to be secured at the end of the workday.

§ 3.5 Warranty

§ 3.5.1 The Contractor warrants to the Owner and Architect that materials and equipment furnished under the Contract will be of good quality and new unless the Contract Documents require or permit otherwise. The Contractor further warrants that the Work will conform to the requirements of the Contract Documents and will be free from defects, except for those inherent in the quality of the Work the Contract Documents require or permit. Work, materials, or equipment not conforming to these requirements may be considered defective. The Contractor's warranty excludes remedy for damage or defect caused by abuse, alterations to the Work not executed by the Contractor, improper or insufficient maintenance, improper operation, or normal wear and tear and normal usage. If required by the Architect, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.

§ 3.5.2 All material, equipment, or other special warranties required by the Contract Documents shall be issued in the name of the Owner, or shall be transferable to the Owner, and shall commence in accordance with Section 9.8.4.

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§ 3.6 Taxes

The Contractor shall pay sales, consumer, use and similar taxes for the Work provided by the Contractor that are legally enacted when bids are received or negotiations concluded, whether or not yet effective or merely scheduled to go into effect. The Owner intends to use the tax exempt purchase procedure authorized by Section 144.062 RSMo.

§ 3.7 Permits, Fees, Notices and Compliance with Laws

§ 3.7.1 Unless otherwise provided in the Contract Documents, the Contractor shall secure and pay for the building permit as well as for other permits, fees, licenses, and inspections by government agencies necessary for proper execution and completion of the Work that are customarily secured after execution of the Contract and legally required at the time bids are received or negotiations concluded.

§ 3.7.2 The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities applicable to performance of the Work.

§ 3.7.3 If the Contractor performs Work knowing it to be contrary to applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, the Contractor shall assume appropriate responsibility for such Work and shall bear the costs attributable to correction.

§ 3.7.4 Concealed or Unknown Conditions

If the Contractor encounters conditions at the site that are (1) subsurface or otherwise concealed physical conditions that differ materially from those indicated in the Contract Documents or (2) unknown physical conditions of an unusual nature that differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the Contract Documents, the Contractor shall promptly provide notice to the Owner and the Architect before conditions are disturbed and in no event later than 14 days after first observance of the conditions. The Architect will promptly investigate such conditions and, if the Architect determines that they differ materially and cause an increase or decrease in the Contractor's cost of, or time required for, performance of any part of the Work, will recommend that an equitable adjustment be made in the Contract Sum or Contract Time, or both. If the Architect determines that the conditions at the site are not materially different from those indicated in the Contract Documents and that no change in the terms of the Contract is justified, the Architect shall promptly notify the Owner and Contractor, stating the reasons. If either party disputes the Architect's determination or recommendation, that party may submit a Claim as provided in Article 15.

§ 3.7.5 If, in the course of the Work, the Contractor encounters human remains or recognizes the existence of burial markers, archaeological sites or wetlands not indicated in the Contract Documents, the Contractor shall immediately suspend any operations that would affect them and shall notify the Owner and Architect. Upon receipt of such notice, the Owner shall promptly take any action necessary to obtain governmental authorization required to resume the operations. The Contractor shall continue to suspend such operations until otherwise instructed by the Owner but shall continue with all other operations that do not affect those remains or features. Requests for adjustments in the Contract Sum and Contract Time arising from the existence of such remains or features may be made as provided in Article 15.

§ 3.8 Allowances

§ 3.8.1 The Contractor shall include in the Contract Sum all allowances stated in the Contract Documents. Items covered by allowances shall be supplied for such amounts and by such persons or entities as the Owner may direct, but the Contractor shall not be required to employ persons or entities to whom the Contractor has reasonable objection.

§ 3.8.2 Unless otherwise provided in the Contract Documents,

- **.1** allowances shall cover the cost to the Contractor of materials and equipment delivered at the site and all required taxes, less applicable trade discounts;
- **.2** Contractor's costs for unloading and handling at the site, labor, installation costs, overhead, profit, and other expenses contemplated for stated allowance amounts shall be included in the Contract Sum but not in the allowances; and

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.3 whenever costs are more than or less than allowances, the Contract Sum shall be adjusted accordingly by Change Order. The amount of the Change Order shall reflect (1) the difference between actual costs and the allowances under Section 3.8.2.1 and (2) changes in Contractor's costs under Section 3.8.2.2.

§ 3.8.3 Materials and equipment under an allowance shall be selected by the Owner with reasonable promptness.

§ 3.9 Superintendent

§ 3.9.1 The Contractor shall employ a competent superintendent and necessary assistants who shall be in attendance at the Project site during performance of the Work. The superintendent shall represent the Contractor, and communications given to the superintendent shall be as binding as if given to the Contractor.

§ 3.9.1.1 This superintendent person shall be a non-working superintendent who will be responsible for the satisfactory progression of the Work and to ensure that all work is being completed in accordance with the Plans and Specifications. The superintendent shall be onsite full-time when Work is being performed. The superintendent shall be satisfactory to the Owner and shall not be changed except with the consent of the Owner. The superintendent shall also relay any conflicts or discrepancies that arise in the plans to the Owner's representative for resolution or interpretation.

§ 3.9.2 The Contractor, as soon as practicable after award of the Contract, shall notify the Owner and Architect of the name and qualifications of a proposed superintendent. Within 14 days of receipt of the information, the Architect may notify the Contractor, stating whether the Owner or the Architect (1) has reasonable objection to the proposed superintendent or (2) requires additional time for review. Failure of the Architect to provide notice within the 14-day period shall constitute notice of no reasonable objection.

§ 3.9.3 The Contractor shall not employ a proposed superintendent to whom the Owner or Architect has made reasonable and timely objection. The Contractor shall not change the superintendent without the Owner's consent, which shall not unreasonably be withheld or delayed.

§ 3.10 Contractor's Construction and Submittal Schedules

§ 3.10.1 The Contractor, within 14 days after being awarded the Contract, shall submit for the Owner's and Architect's information a Contractor's construction schedule for the Work. The schedule shall contain detail appropriate for the Project, including (1) the date of commencement of the Work, interim schedule milestone dates, and the date of Substantial Completion; (2) an apportionment of the Work by construction activity; and (3) the time required for completion of each portion of the Work. The schedule shall provide for the orderly progression of the Work to completion and shall not exceed time limits current under the Contract Documents. The schedule shall be revised at appropriate intervals as required by the conditions of the Work and Project.

§ 3.10.2 The Contractor, within 21 days after being awarded the Contract and thereafter as necessary to maintain a current submittal schedule, shall submit a submittal schedule for the Architect's approval. The Architect's approval shall not be unreasonably delayed or withheld. The submittal schedule shall (1) be coordinated with the Contractor's construction schedule, and (2) allow the Architect reasonable time to review submittals. If the Contractor fails to submit a submittal schedule, or fails to provide submittals in accordance with the approved submittal schedule, the Contractor shall not be entitled to any increase in Contract Sum or extension of Contract Time based on the time required for review of submittals.

§ 3.10.3 The Contractor shall perform the Work in general accordance with the most recent schedules submitted to the Owner and Architect.

§ 3.11 Documents and Samples at the Site

The Contractor shall make available, at the Project site, the Contract Documents, including Change Orders, Construction Change Directives, and other Modifications, in good order and marked currently to indicate field changes and selections made during construction, and the approved Shop Drawings, Product Data, Samples, and similar required submittals. These shall be in electronic form or paper copy, available to the Architect and Owner, and delivered to the Architect for submittal to the Owner upon completion of the Work as a record of the Work as constructed.

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§ 3.12 Shop Drawings, Product Data and Samples

§ 3.12.1 Shop Drawings are drawings, diagrams, schedules, and other data specially prepared for the Work by the Contractor or a Subcontractor, Sub-subcontractor, manufacturer, supplier, or distributor to illustrate some portion of the Work.

§ 3.12.2 Product Data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams, and other information furnished by the Contractor to illustrate materials or equipment for some portion of the Work.

§ 3.12.3 Samples are physical examples that illustrate materials, equipment, or workmanship, and establish standards by which the Work will be judged.

§ 3.12.4 Shop Drawings, Product Data, Samples, and similar submittals are not Contract Documents. Their purpose is to demonstrate how the Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents for those portions of the Work for which the Contract Documents require submittals. Review by the Architect is subject to the limitations of Section 4.2.7. Informational submittals upon which the Architect is not expected to take responsive action may be so identified in the Contract Documents. Submittals that are not required by the Contract Documents may be returned by the Architect without action.

§ 3.12.5 The Contractor shall review for compliance with the Contract Documents, approve, and submit to the Architect, Shop Drawings, Product Data, Samples, and similar submittals required by the Contract Documents, in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of the Owner or of Separate Contractors.

§ 3.12.6 By submitting Shop Drawings, Product Data, Samples, and similar submittals, the Contractor represents to the Owner and Architect that the Contractor has (1) reviewed and approved them, (2) determined and verified materials, field measurements and field construction criteria related thereto, or will do so, and (3) checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents.

§ 3.12.7 The Contractor shall perform no portion of the Work for which the Contract Documents require submittal and review of Shop Drawings, Product Data, Samples, or similar submittals, until the respective submittal has been approved by the Architect. The Contractor must correct at its cost, and without any adjustment to Contract Time, any Work the correction of which is required due to the Contractor's failure to obtain approval of a submittal required to have been obtained prior to proceeding with the Work, including but not limited to, correction of any conflicts in the Work resulting from such failure.

§ 3.12.8 The Work shall be in accordance with approved submittals except that the Contractor shall not be relieved of responsibility for deviations from the requirements of the Contract Documents by the Architect's approval of Shop Drawings, Product Data, Samples, or similar submittals, unless the Contractor has specifically notified the Architect of such deviation at the time of submittal and (1) the Architect has given written approval to the specific deviation as a minor change in the Work, or (2) a Change Order or Construction Change Directive has been issued authorizing the deviation. The Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples, or similar submittals, by the Architect's approval thereof.

§ 3.12.9 The Contractor shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data, Samples, or similar submittals, to revisions other than those requested by the Architect on previous submittals. In the absence of such notice, the Architect's approval of a resubmission shall not apply to such revisions.

§ 3.12.10 The Contractor shall not be required to provide professional services that constitute the practice of architecture or engineering unless such services are specifically required by the Contract Documents for a portion of the Work or unless the Contractor needs to provide such services in order to carry out the Contractor's responsibilities for construction means, methods, techniques, sequences, and procedures. The Contractor shall not be required to provide professional services in violation of applicable law.

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§ 3.12.10.1 If professional design services or certifications by a design professional related to systems, materials, or equipment are specifically required of the Contractor by the Contract Documents, the Owner and the Architect will specify all performance and design criteria that such services must satisfy. The Contractor shall be entitled to rely upon the adequacy and accuracy of the performance and design criteria provided in the Contract Documents. The Contractor shall cause such services or certifications to be provided by an appropriately licensed design professional, whose signature and seal shall appear on all drawings, calculations, specifications, certifications, Shop Drawings, and other submittals prepared by such professional. Shop Drawings, and other submittals related to the Work, designed or certified by such professional, if prepared by others, shall bear such professional's written approval when submitted to the Architect. The Owner and the Architect shall be entitled to rely upon the adequacy and accuracy of the services, certifications, and approvals performed or provided by such design professionals, provided the Owner and Architect have specified to the Contractor the performance and design criteria that such services must satisfy. Pursuant to this Section 3.12.10, the Architect will review and approve or take other appropriate action on submittals only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents.

§ 3.12.10.2 If the Contract Documents require the Contractor's design professional to certify that the Work has been performed in accordance with the design criteria, the Contractor shall furnish such certifications to the Architect at the time and in the form specified by the Architect.

§ 3.12.11 The Architect's review of Contractor's submittals will be limited to examination of an initial submittal and two (2) resubmittals. The Owner is entitled to obtain reimbursement from the Contractor for amounts paid to the Architect for evaluation of additional resubmittals.

§ 3.13 Use of Site

The Contractor shall confine operations at the site to areas permitted by applicable laws, statutes, ordinances, codes, rules and regulations, lawful orders of public authorities, and the Contract Documents and shall not unreasonably encumber the site with materials or equipment.

§ 3.14 Cutting and Patching

§ 3.14.1 The Contractor shall be responsible for cutting, fitting, or patching required to complete the Work or to make its parts fit together properly. All areas requiring cutting, fitting, or patching shall be restored to the condition existing prior to the cutting, fitting, or patching, unless otherwise required by the Contract Documents.

§ 3.14.2 The Contractor shall not damage or endanger a portion of the Work or fully or partially completed construction of the Owner or Separate Contractors by cutting, patching, or otherwise altering such construction, or by excavation. The Contractor shall not cut or otherwise alter construction by the Owner or a Separate Contractor except with written consent of the Owner and of the Separate Contractor. Consent shall not be unreasonably withheld. The Contractor shall not unreasonably withhold, from the Owner or a Separate Contractor, its consent to cutting or otherwise altering the Work.

§ 3.15 Cleaning Up

§ 3.15.1 The Contractor shall keep the premises and surrounding area free from accumulation of waste materials and rubbish caused by operations under the Contract. At completion of the Work, the Contractor shall remove waste materials, rubbish, the Contractor's tools, construction equipment, machinery, and surplus materials from and about the Project.

§ 3.15.2 If the Contractor fails to clean up as provided in the Contract Documents, the Owner may do so and the Owner shall be entitled to reimbursement from the Contractor.

§ 3.15.3 The Contractor shall clean up all rubbish and debris from site and building on a daily basis. This includes off-site disposal of all rubbish and debris along with excess spoils, unsuitable materials such as concrete, sand and masonry materials. Trucks or dumpsters to haul off material shall be provided by the Contractor.

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§ 3.15.4 The Contractor shall broom clean all floors at least once a week, maintain a clean, orderly, and hazard-free environment, and maintain waste removal, organized material storage and clear access routes.

§ 3.16 Access to Work

The Contractor shall provide the Owner and Architect with access to the Work in preparation and progress wherever located.

§ 3.17 Royalties, Patents and Copyrights

The Contractor shall pay all royalties and license fees. The Contractor shall defend suits or claims for infringement of copyrights and patent rights and shall hold the Owner and Architect harmless from loss on account thereof, but shall not be responsible for defense or loss when a particular design, process, or product of a particular manufacturer or manufacturers is required by the Contract Documents, or where the copyright violations are contained in Drawings, Specifications, or other documents prepared by the Owner or Architect. However, if an infringement of a copyright or patent is discovered by, or made known to, the Contractor, the Contractor shall be responsible for the loss unless the information is promptly furnished to the Architect.

§ 3.18 Indemnification

§ 3.18.1 To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the Owner, Owner's Representative, Architect, Architect's consultants, and agents and employees of any of them from and against claims, damages, losses, and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work, provided that such claim, damage, loss, or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), but only to the extent caused by the negligent acts or omissions of the Contractor, a Subcontractor, anyone directly or indirectly employed by them, or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss, or expense is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity that would otherwise exist as to a party or person described in this Section 3.18.

§ 3.18.2 In claims against any person or entity indemnified under this Section 3.18 by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them, or anyone for whose acts they may be liable, the indemnification obligation under Section 3.18.1 shall not be limited by a limitation on amount or type of damages, compensation, or benefits payable by or for the Contractor or a Subcontractor under workers' compensation acts, disability benefit acts, or other employee benefit acts.

ARTICLE 4 ARCHITECT

§ 4.1 General

§ 4.1.1 The Architect is the person or entity retained by the Owner pursuant to Section 2.3.2 and identified as such in the Agreement.

§ 4.1.2 Duties, responsibilities, and limitations of authority of the Architect as set forth in the Contract Documents shall not be restricted, modified, or extended without written consent of the Owner, Contractor, and Architect. Consent shall not be unreasonably withheld.

§ 4.2 Administration of the Contract

§ 4.2.1 The Architect will provide administration of the Contract as described in the Contract Documents and will be an Owner's representative during construction until the date the Architect issues the final Certificate for Payment. The Architect will have authority to act on behalf of the Owner only to the extent provided in the Contract Documents.

§ 4.2.2 The Architect will visit the site at intervals appropriate to the stage of construction, or as otherwise agreed with the Owner, to become generally familiar with the progress and quality of the portion of the Work completed, and to determine in general if the Work observed is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the Contract Documents. However, the Architect will not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. The Architect will not have control over, charge of, or responsibility for the construction means, methods, techniques, sequences or

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procedures, or for the safety precautions and programs in connection with the Work, since these are solely the Contractor's rights and responsibilities under the Contract Documents.

§ 4.2.2.1 The Owner is entitled to reimbursement from the Contractor for amounts paid to the Architect for site visits made necessary by the fault of the Contractor or by defects and deficiencies in the Work.

§ 4.2.3 On the basis of the site visits, the Architect will keep the Owner reasonably informed about the progress and quality of the portion of the Work completed, and promptly report to the Owner (1) known deviations from the Contract Documents, (2) known deviations from the most recent construction schedule submitted by the Contractor, and (3) defects and deficiencies observed in the Work. The Architect will not be responsible for the Contractor's failure to perform the Work in accordance with the requirements of the Contract Documents. The Architect will not have control over or charge of, and will not be responsible for acts or omissions of, the Contractor, Subcontractors, or their agents or employees, or any other persons or entities performing portions of the Work.

§ 4.2.4 Communications

The Owner and Contractor shall include the Architect in all communications that relate to or affect the Architect's services or professional responsibilities. The Owner shall promptly notify the Architect of the substance of any direct communications between the Owner and the Contractor otherwise relating to the Project. Communications by and with the Architect's consultants shall be through the Architect. Communications by and with Subcontractors and suppliers shall be through the Contractor. Communications by and with Separate Contractors shall be through the Owner. The Contract Documents may specify other communication protocols.

§ 4.2.5 Based on the Architect's evaluations of the Contractor's Applications for Payment, the Architect will review and certify the amounts due the Contractor and will issue Certificates for Payment in such amounts.

§ 4.2.6 The Architect has authority to reject Work that does not conform to the Contract Documents. Whenever the Architect considers it necessary or advisable, the Architect will have authority to require inspection or testing of the Work in accordance with Sections 13.4.2 and 13.4.3, whether or not the Work is fabricated, installed or completed. However, neither this authority of the Architect nor a decision made in good faith either to exercise or not to exercise such authority shall give rise to a duty or responsibility of the Architect to the Contractor, Subcontractors, suppliers, their agents or employees, or other persons or entities performing portions of the Work.

§ 4.2.7 The Architect will review and approve, or take other appropriate action upon, the Contractor's submittals such as Shop Drawings, Product Data, and Samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Architect's action will be taken in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness while allowing sufficient time in the Architect's professional judgment to permit adequate review. Review of such submittals is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of the Contractor as required by the Contract Documents. The Architect's review of the Contractor's submittals shall not relieve the Contractor of the obligations under Sections 3.3, 3.5, and 3.12. The Architect's review shall not constitute approval of safety precautions or of any construction means, methods, techniques, sequences, or procedures. The Architect's approval of a specific item shall not indicate approval of an assembly of which the item is a component.

§ 4.2.8 The Architect will prepare Change Orders and Construction Change Directives, and may order minor changes in the Work as provided in Section 7.4. The Architect will investigate and make determinations and recommendations regarding concealed and unknown conditions as provided in Section 3.7.4.

§ 4.2.9 The Architect will conduct inspections to determine the date or dates of Substantial Completion and the date of final completion; issue Certificates of Substantial Completion pursuant to Section 9.8; receive and forward to the Owner, for the Owner's review and records, written warranties and related documents required by the Contract and assembled by the Contractor pursuant to Section 9.10; and issue a final Certificate for Payment pursuant to Section 9.10.

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§ 4.2.10 If the Owner and Architect agree, the Architect will provide one or more Project representatives to assist in carrying out the Architect's responsibilities at the site. The Owner shall notify the Contractor of any change in the duties, responsibilities and limitations of authority of the Project representatives.

§ 4.2.11 The Architect will interpret and decide matters concerning performance under, and requirements of, the Contract Documents on written request of either the Owner or Contractor. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness.

§ 4.2.12 Interpretations and decisions of the Architect will be consistent with the intent of, and reasonably inferable from, the Contract Documents and will be in writing or in the form of drawings. When making such interpretations and decisions, the Architect will endeavor to secure faithful performance by both Owner and Contractor, will not show partiality to either, and will not be liable for results of interpretations or decisions rendered in good faith.

§ 4.2.13 The Architect's decisions on matters relating to aesthetic effect will be final if consistent with the intent expressed in the Contract Documents.

§ 4.2.14 The Architect will review and respond to requests for information about the Contract Documents. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness. If appropriate, the Architect will prepare and issue supplemental Drawings and Specifications in response to the requests for information.

ARTICLE 5 SUBCONTRACTORS

§ 5.1 Definitions

§ 5.1.1 A Subcontractor is a person or entity who has a direct contract with the Contractor to perform a portion of the Work at the site. The term "Subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Subcontractor or an authorized representative of the Subcontractor. The term "Subcontractor" does not include a Separate Contractor or the subcontractors of a Separate Contractor.

§ 5.1.2 A Sub-subcontractor is a person or entity who has a direct or indirect contract with a Subcontractor to perform a portion of the Work at the site. The term "Sub-subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Sub-subcontractor or an authorized representative of the Sub-subcontractor.

§ 5.2 Award of Subcontracts and Other Contracts for Portions of the Work

§ 5.2.1 Unless otherwise stated in the Contract Documents, the Contractor, as soon as practicable after award of the Contract, shall notify the Owner and Architect of the persons or entities proposed for each principal portion of the Work, including those who are to furnish materials or equipment fabricated to a special design. Within 14 days of receipt of the information, the Architect may notify the Contractor whether the Owner or the Architect (1) has reasonable objection to any such proposed person or entity or (2) requires additional time for review. Failure of the Architect to provide notice within the 14-day period shall constitute notice of no reasonable objection.

§ 5.2.2 The Contractor shall not contract with a proposed person or entity to whom the Owner or Architect has made reasonable and timely objection. The Contractor shall not be required to contract with anyone to whom the Contractor has made reasonable objection.

§ 5.2.3 If the Owner or Architect has reasonable objection to a person or entity proposed by the Contractor, the Contractor shall propose another to whom the Owner or Architect has no reasonable objection. If the proposed but rejected Subcontractor was reasonably capable of performing the Work, the Contract Sum and Contract Time shall be increased or decreased by the difference, if any, occasioned by such change, and an appropriate Change Order shall be issued before commencement of the substitute Subcontractor's Work. However, no increase in the Contract Sum or Contract Time shall be allowed for such change unless the Contractor has acted promptly and responsively in submitting names as required.

§ 5.2.4 The Contractor shall not substitute a Subcontractor, person, or entity for one previously selected if the Owner or Architect makes reasonable objection to such substitution.

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§ 5.3 Subcontractual Relations

By appropriate written agreement, the Contractor shall require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to the Contractor by terms of the Contract Documents, and to assume toward the Contractor all the obligations and responsibilities, including the responsibility for safety of the Subcontractor's Work that the Contractor, by these Contract Documents, assumes toward the Owner and Architect. Each subcontract agreement shall preserve and protect the rights of the Owner and Architect under the Contract Documents with respect to the Work to be performed by the Subcontractor so that subcontracting thereof will not prejudice such rights, and shall allow to the Subcontractor, unless specifically provided otherwise in the subcontract agreement, the benefit of all rights, remedies, and redress against the Contractor that the Contractor, by the Contract Documents, has against the Owner. Where appropriate, the Contractor shall require each Subcontractor to enter into similar agreements with Sub-subcontractors. The Contractor shall make available to each proposed Subcontractor, prior to the execution of the subcontract agreement, copies of the Contract Documents to which the Subcontractor will be bound, and, upon written request of the Subcontractor, identify to the Subcontractor terms and conditions of the proposed subcontract agreement that may be at variance with the Contract Documents. Subcontractors will similarly make copies of applicable portions of such documents available to their respective proposed Sub-subcontractors.

§ 5.4 Contingent Assignment of Subcontracts

§ 5.4.1 Each subcontract agreement for a portion of the Work is assigned by the Contractor to the Owner, provided that

.1 assignment is effective only after termination of the Contract by the Owner for cause pursuant to Section 14.2 and only for those subcontract agreements that the Owner accepts by notifying the Subcontractor and Contractor; and

.2 assignment is subject to the prior rights of the surety, if any, obligated under bond relating to the Contract.

When the Owner accepts the assignment of a subcontract agreement, the Owner assumes the Contractor's rights and obligations under the subcontract.

§ 5.4.2 Upon such assignment, if the Work has been suspended for more than 30 days, the Subcontractor's compensation shall be equitably adjusted for increases in cost resulting from the suspension.

§ 5.4.3 Upon assignment to the Owner under this Section 5.4, the Owner may further assign the subcontract to a successor contractor or other entity. If the Owner assigns the subcontract to a successor contractor or other entity, the Owner shall nevertheless remain legally responsible for all of the successor contractor's obligations under the subcontract.

ARTICLE 6 CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

§ 6.1 Owner's Right to Perform Construction and to Award Separate Contracts

§ 6.1.1 The term "Separate Contractor(s)" shall mean other contractors retained by the Owner under separate agreements. The Owner reserves the right to perform construction or operations related to the Project with the Owner's own forces, and with Separate Contractors retained under Conditions of the Contract substantially similar to those of this Contract, including those provisions of the Conditions of the Contract related to insurance and waiver of subrogation.

§ 6.1.2 When separate contracts are awarded for different portions of the Project or other construction or operations on the site, the term "Contractor" in the Contract Documents in each case shall mean the Contractor who executes each separate Owner-Contractor Agreement.

§ 6.1.3 The Owner shall provide for coordination of the activities of the Owner's own forces and of each Separate Contractor with the Work of the Contractor, who shall cooperate with them. The Contractor shall participate with any Separate Contractors and the Owner in reviewing their construction schedules. The Contractor shall make any revisions to its construction schedule deemed necessary after a joint review and mutual agreement. The construction

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schedules shall then constitute the schedules to be used by the Contractor, Separate Contractors, and the Owner until subsequently revised.

§ 6.1.4 Unless otherwise provided in the Contract Documents, when the Owner performs construction or operations related to the Project with the Owner's own forces or with Separate Contractors, the Owner or its Separate Contractors shall have the same obligations and rights that the Contractor has under the Conditions of the Contract, including, without excluding others, those stated in Article 3, this Article 6, and Articles 10, 11, and 12.

§ 6.2 Mutual Responsibility

§ 6.2.1 The Contractor shall afford the Owner and Separate Contractors reasonable opportunity for introduction and storage of their materials and equipment and performance of their activities, and shall connect and coordinate the Contractor's construction and operations with theirs as required by the Contract Documents.

§ 6.2.2 If part of the Contractor's Work depends for proper execution or results upon construction or operations by the Owner or a Separate Contractor, the Contractor shall, prior to proceeding with that portion of the Work, promptly notify the Architect of apparent discrepancies or defects in the construction or operations by the Owner or Separate Contractor that would render it unsuitable for proper execution and results of the Contractor's Work. Failure of the Contractor to notify the Architect of apparent discrepancies or defects prior to proceeding with the Work shall constitute an acknowledgment that the Owner's or Separate Contractor's completed or partially completed construction is fit and proper to receive the Contractor's Work. The Contractor shall not be responsible for discrepancies or defects in the construction or operations by the Owner or Separate Contractor that are not apparent.

§ 6.2.3 The Contractor shall reimburse the Owner for costs the Owner incurs that are payable to a Separate Contractor because of the Contractor's delays, improperly timed activities or defective construction. The Owner shall be responsible to the Contractor for costs the Contractor incurs because of a Separate Contractor's delays, improperly timed activities, damage to the Work or defective construction.

§ 6.2.4 The Contractor shall promptly remedy damage that the Contractor wrongfully causes to completed or partially completed construction or to property of the Owner or Separate Contractor as provided in Section 10.2.5.

§ 6.2.5 The Owner and each Separate Contractor shall have the same responsibilities for cutting and patching as are described for the Contractor in Section 3.14.

§ 6.3 Owner's Right to Clean Up

If a dispute arises among the Contractor, Separate Contractors, and the Owner as to the responsibility under their respective contracts for maintaining the premises and surrounding area free from waste materials and rubbish, the Owner may clean up and the Architect will allocate the cost among those responsible.

ARTICLE 7 CHANGES IN THE WORK

§ 7.1 General

§ 7.1.1 Changes in the Work may be accomplished after execution of the Contract, and without invalidating the Contract, by Change Order, Construction Change Directive or order for a minor change in the Work, subject to the limitations stated in this Article 7 and elsewhere in the Contract Documents.

§ 7.1.2 A Change Order shall be based upon agreement among the Owner, Contractor, and Architect. A Construction Change Directive requires agreement by the Owner and Architect and may or may not be agreed to by the Contractor. An order for a minor change in the Work may be issued by the Architect alone.

§ 7.1.3 Changes in the Work shall be performed under applicable provisions of the Contract Documents. The Contractor shall proceed promptly with changes in the Work, unless otherwise provided in the Change Order, Construction Change Directive, or order for a minor change in the Work.

§ 7.1.4 Refer to Specification Section 01 20 01 Change Order Calculations.

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§ 7.2 Change Orders

§ 7.2.1 A Change Order is a written instrument prepared by the Architect and signed by the Owner, Contractor, and Architect stating their agreement upon all of the following:

.1 The change in the Work;

.2 The amount of the adjustment, if any, in the Contract Sum; and

.3 The extent of the adjustment, if any, in the Contract Time.

§ 7.2.2 The Contractor must submit change proposals covering a contemplated Change Order within ten (10) work days after the request of the Owner, Architect or Owner's Representative or within ten (10) work days of when the Contractor has actual knowledge of the facts giving rise to the Contractor's claim for a change in the Contract Sum or Contract Time. No increase in the Contract Sum or extension of the Contract Time will be allowed the Contractor for the cost or time involved in making change proposals. Change proposals will define or confirm in detail the Work that is proposed to be added, deleted, or changed and must include any adjustment which the Contractor believes to be necessary in the Contract Sum or the Contract Time. Any proposed adjustment must include detailed documentation, including but not limited to: cost, properly itemized and supported by sufficient substantiating data to permit evaluation including cost of labor, materials, supplies and equipment, rental cost of machinery and equipment, and additional bond cost. Change proposals will be binding upon the Contractor and may be accepted or rejected by the Owner in its discretion. The Owner may, at its option, instruct the Contractor to proceed with the Work involved in the Change Proposal in accordance with this Section 7.2.2 without accepting the Change Proposal in its entirety. See Exhibit E, entitled Change Order Calculations which shall govern and apply to Change Orders. A Change Order is not effective until the Owner and Architect issue and sign the Change Order.

§ 7.3 Construction Change Directives

§ 7.3.1 A Construction Change Directive is a written order prepared by the Architect and signed by the Owner and Architect, directing a change in the Work prior to agreement on adjustment, if any, in the Contract Sum or Contract Time, or both. The Owner may by Construction Change Directive, without invalidating the Contract, order changes in the Work within the general scope of the Contract consisting of additions, deletions, or other revisions, the Contract Sum and Contract Time being adjusted accordingly. The Owner's Representative shall be kept informed and will consult with the Architect throughout the process described in Section 7.3.

§ 7.3.2 A Construction Change Directive shall be used in the absence of total agreement on the terms of a Change Order.

§ 7.3.3 If the Construction Change Directive provides for an adjustment to the Contract Sum, the adjustment shall be based on one of the following methods:

.1 Mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation;

.2 Unit prices stated in the Contract Documents or subsequently agreed upon;

.3 Cost to be determined in a manner agreed upon by the parties and a mutually acceptable fixed or percentage fee; or

.4 As provided in Section 7.3.4.

§ 7.3.4 If the Contractor does not respond promptly or disagrees with the method for adjustment in the Contract Sum, the Architect shall determine the adjustment on the basis of reasonable expenditures and savings of those performing the Work attributable to the change, including, in case of an increase in the Contract Sum, an amount for overhead and profit as set forth in the Agreement, or if no such amount is set forth in the Agreement, a reasonable amount. In such case, and also under Section 7.3.3.3, the Contractor shall keep and present, in such form as the Architect may prescribe, an itemized accounting together with appropriate supporting data. Unless otherwise provided in the Contract Documents, costs for the purposes of this Section 7.3.4 shall be limited to the following:

.1 Costs of labor, including applicable payroll taxes, fringe benefits required by agreement or custom, workers' compensation insurance, and other employee costs approved by the Architect;

.2 Costs of materials, supplies, and equipment, including cost of transportation, whether incorporated or consumed;

.3 Rental costs of machinery and equipment, exclusive of hand tools, whether rented from the Contractor or others;

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.4 Costs of premiums for all bonds and insurance, permit fees, and sales, use, or similar taxes, directly related to the change; and

.5 Costs of supervision and field office personnel directly attributable to the change.

§ 7.3.5 If the Contractor disagrees with the adjustment in the Contract Time, the Contractor may make a Claim in accordance with applicable provisions of Article 15.

§ 7.3.6 Upon receipt of a Construction Change Directive, the Contractor shall promptly proceed with the change in the Work involved and advise the Architect of the Contractor's agreement or disagreement with the method, if any, provided in the Construction Change Directive for determining the proposed adjustment in the Contract Sum or Contract Time.

§ 7.3.7 A Construction Change Directive signed by the Contractor indicates the Contractor's agreement therewith, including adjustment in Contract Sum and Contract Time or the method for determining them. Such agreement shall be effective immediately and shall be recorded as a Change Order.

§ 7.3.8 The amount of credit to be allowed by the Contractor to the Owner for a deletion or change that results in a net decrease in the Contract Sum shall be actual net cost as confirmed by the Architect. When both additions and credits covering related Work or substitutions are involved in a change, the allowance for overhead and profit shall be figured on the basis of net increase, if any, with respect to that change.

§ 7.3.9 Pending final determination of the total cost of a Construction Change Directive to the Owner, the Contractor may request payment for Work completed under the Construction Change Directive in Applications for Payment. The Architect will make an interim determination for purposes of monthly certification for payment for those costs and certify for payment the amount that the Architect determines, in the Architect's professional judgment, to be reasonably justified. The Architect's interim determination of cost shall adjust the Contract Sum on the same basis as a Change Order, subject to the right of either party to disagree and assert a Claim in accordance with Article 15.

§ 7.3.10 When the Owner and Contractor agree with a determination made by the Architect concerning the adjustments in the Contract Sum and Contract Time, or otherwise reach agreement upon the adjustments, such agreement shall be effective immediately and the Architect will prepare a Change Order. Change Orders may be issued for all or any part of a Construction Change Directive.

§ 7.4 Minor Changes in the Work

The Architect may order minor changes in the Work that are consistent with the intent of the Contract Documents and do not involve an adjustment in the Contract Sum or an extension of the Contract Time. The Architect's order for minor changes shall be in writing. If the Contractor believes that the proposed minor change in the Work will affect the Contract Sum or Contract Time, the Contractor shall notify the Architect and shall not proceed to implement the change in the Work. If the Contractor performs the Work set forth in the Architect's order for a minor change without prior notice to the Architect that such change will affect the Contract Sum or Contract Time, the Contractor waives any adjustment to the Contract Sum or extension of the Contract Time.

ARTICLE 8 TIME

§ 8.1 Definitions

§ 8.1.1 Unless otherwise provided, Contract Time is the period of time, including authorized adjustments, allotted in the Contract Documents for Substantial Completion of the Work.

§ 8.1.2 The date of commencement of the Work is the date established in the Agreement.

§ 8.1.3 The date of Substantial Completion is the date certified by the Architect in accordance with Section 9.8.

§ 8.1.4 The term "day" as used in the Contract Documents shall mean calendar day unless otherwise specifically defined.

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§ 8.2 Progress and Completion

§ 8.2.1 Time limits stated in the Contract Documents are of the essence of the Contract. By executing the Agreement, the Contractor confirms that the Contract Time is a reasonable period for performing the Work.

§ 8.2.2 The Contractor shall not knowingly, except by agreement or instruction of the Owner in writing, commence the Work prior to the effective date of insurance required to be furnished by the Contractor and Owner.

§ 8.2.3 The Contractor shall proceed expeditiously with adequate forces and shall achieve Substantial Completion within the Contract Time.

§ 8.2.4 If at any time during the course of the Work, the Owner reasonably determines that the Contractor has fallen behind the critical path of the schedule, the Owner may upon written notice to the Contractor, require the Contractor to recover schedule by any means appropriate (including but not limited to the provision of extra shifts and/or overtime and/or adjustments to the schedule). Within five days of the Contractor's receipt of such written notice, the Contractor shall provide the Owner with a written recovery plan and shall commence recovery efforts. So long as the Contractor has fallen behind schedule for reasons attributable to the Contractor (and not to force majeure events), all costs associated with the recovery schedule shall be borne by the Contractor. If, however, the Contractor is not at fault for the delay in the work (due to force majeure events or other causes that would otherwise entitle the Contractor to an extension of Contract Time) then the Contractor shall be paid for the costs of recovering schedule pursuant to the provisions of the Contract Documents applicable to changes in the Work.

§ 8.2.5 The Contractor must conform to the most recently approved Construction Schedule. The Contractor must complete the indicated work or achieve the required percentage of completion, as applicable, with any interim completion dates established in the most recently approved Construction Schedule.

§ 8.2.6 The Contractor must maintain at the Site, available to the Owner, Owner's Representative and Architect for their reference during the progress of the Work, a copy of the approved Construction Schedule and any approved revisions thereto. The Contractor must keep current records of and mark on a copy of the approved Construction Schedule the actual commencement date, progress, and completion date of each scheduled activity on the Construction Schedule.

§ 8.2.7 The Contractor represents that its bid includes all costs, overhead and profit which may be incurred throughout the Contract Time and the period between Substantial and Final Completion. Accordingly, the Contractor may not make any claim for delay damages based in whole or in part on the premise that the Contractor would have completed the Work prior to the expiration of the Contract Time but for any claimed delay.

§ 8.2.8 The Owner reserves the right to issue written directive to accelerate the Work that may be subject to an appropriate adjustment, if any, in the Contract Sum. Contractor must substantiate any costs associated with such Owner directive.

§ 8.3 Delays and Extensions of Time

§ 8.3.1 If the Contractor is delayed at any time in the commencement or progress of the Critical Path Work by (1) an act or neglect of the Owner or Architect, of an employee of either, or of a Separate Contractor; (2) by changes ordered in the Work; (3) by labor disputes, fire, unusual delay in deliveries, unavoidable casualties, adverse weather conditions documented in accordance with Section 15.1.6.2, or other causes beyond the Contractor's control; (4) by delay authorized by the Owner pending mediation and binding dispute resolution; or (5) by other causes that the Contractor asserts, and the Architect determines, justify delay, then the Contract Time shall be extended for such reasonable time as the Architect may determine. The sole remedy for delays other than those which are caused solely and exclusively by acts or omissions of the Owner (except actions taken by the Owner acting as a regulatory authority to protect the public health or safety or to conform to law).will be non-compensable time extensions for completion of the Work.

§ 8.3.1.1 If the Owner is delayed at any time in the performance of its obligations under the Agreement, then the time for the performance of the Owner's obligations shall be equitably extended to permit the Owner to perform same.

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§ 8.3.1.2 Tariffs: It is expressly agreed that in establishing the Contract Sum, the contractor has given consideration to the risks associated with tariffs, including the possibility that tariffs may be newly enacted after execution of the Agreement, and/or that existing tariffs may change after execution of the Agreement. Contractor expressly accepts all risks associated with new or changing tariffs, and agrees that it will make no claim against the Owner related in any way to new or changing tariffs.

§ 8.3.2 Claims relating to time shall be made in accordance with applicable provisions of Article 15.

§ 8.3.3 This Section 8.3 does not preclude recovery of damages for delay by either party under other provisions of the Contract Documents.

ARTICLE 9 PAYMENTS AND COMPLETION

§ 9.1 Contract Sum

§ 9.1.1 The Contract Sum is stated in the Agreement and, including authorized adjustments, is the total amount payable by the Owner to the Contractor for performance of the Work under the Contract Documents.

§ 9.2 Schedule of Values

Where the Contract is based on a stipulated sum or Guaranteed Maximum Price, the Contractor shall submit a schedule of values to the Architect and Owner's Representative within 15 days after the date of the Owner-Contractor Agreement and prior to submitting the first Application for Payment, allocating the entire Contract Sum to the various portions of the Work. The schedule of values shall be prepared in the form, and supported by the data to substantiate its accuracy, required by the Architect and Owner's Representative. This schedule, unless objected to by the Architect or Owner's Representative, shall be used as a basis for reviewing the Contractor's Applications for Payment. Any changes to the schedule of values shall be submitted to the Architect and Owner's Representative and supported by such data to substantiate its accuracy as the Architect and Owner's Representative may require, and unless objected to by the Architect or Owner's Representative, shall be used as a basis for reviewing the Contractor's subsequent Applications for Payment.

§ 9.3 Applications for Payment

§ 9.3.1 At least ten days before the date established for each progress payment, the Contractor shall submit to the Architect and Owner's Representative an itemized Application for Payment prepared in accordance with the schedule of values, if required under Section 9.2, for completed portions of the Work. The application shall be notarized, if required, and supported by all data substantiating the Contractor's right to payment that the Owner or Architect or Owner's Representative require, such as copies of requisitions, and releases and waivers of liens from Subcontractors and suppliers, and shall reflect retainage if provided for in the Contract Documents.

§ 9.3.1.1 As provided in Section 7.3.9, such applications may include requests for payment on account of changes in the Work that have been properly authorized by Construction Change Directives, or by interim determinations of the Architect, but not yet included in Change Orders.

§ 9.3.1.2 Applications for Payment shall not include requests for payment for portions of the Work for which the Contractor does not intend to pay a Subcontractor or supplier, unless such Work has been performed by others whom the Contractor intends to pay.

§ 9.3.2 Unless otherwise provided in the Contract Documents, payments shall be made on account of materials and equipment delivered and suitably stored at the site for subsequent incorporation in the Work. If approved in advance by the Owner, payment may similarly be made for materials and equipment suitably stored off the site at a location agreed upon in writing. Payment for materials and equipment stored on or off the site shall be conditioned upon compliance by the Contractor with procedures satisfactory to the Owner to establish the Owner's title to such materials and equipment or otherwise protect the Owner's interest, and shall include the costs of applicable insurance, storage, and transportation to the site, for such materials and equipment stored off the site.

§ 9.3.3 The Contractor warrants that title to all Work covered by an Application for Payment will pass to the Owner no later than the time of payment. The Contractor further warrants that upon submittal of an Application for

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Payment all Work for which Certificates for Payment have been previously issued and payments received from the Owner shall, to the best of the Contractor's knowledge, information, and belief, be free and clear of liens, claims, security interests, or encumbrances, in favor of the Contractor, Subcontractors, suppliers, or other persons or entities that provided labor, materials, and equipment relating to the Work.

§ 9.4 Certificates for Payment

§ 9.4.1 The Architect will, within seven days after receipt of the Contractor's Application for Payment, either (1) issue to the Owner a Certificate for Payment in the full amount of the Application for Payment, with a copy to the Contractor; or (2) issue to the Owner a Certificate for Payment for such amount as the Architect determines is properly due, and notify the Contractor and Owner of the Architect's reasons for withholding certification in part as provided in Section 9.5.1; or (3) withhold certification of the entire Application for Payment, and notify the Contractor and Owner of the Architect's reason for withholding certification in whole as provided in Section 9.5.1.

§ 9.4.2 The issuance of a Certificate for Payment will constitute a representation by the Architect to the Owner, based on the Architect's evaluation of the Work and the data in the Application for Payment, that, to the best of the Architect's knowledge, information, and belief, the Work has progressed to the point indicated, the quality of the Work is in accordance with the Contract Documents, and that the Contractor is entitled to payment in the amount certified. The foregoing representations are subject to an evaluation of the Work for conformance with the Contract Documents upon Substantial Completion, to results of subsequent tests and inspections, to correction of minor deviations from the Contract Documents prior to completion, and to specific qualifications expressed by the Architect. However, the issuance of a Certificate for Payment will not be a representation that the Architect has (1) made exhaustive or continuous on-site inspections to check the quality or quantity of the Work; (2) reviewed construction means, methods, techniques, sequences, or procedures; (3) reviewed copies of requisitions received from Subcontractors and suppliers and other data requested by the Owner to substantiate the Contractor's right to payment; or (4) made examination to ascertain how or for what purpose the Contractor has used money previously paid on account of the Contract Sum.

§ 9.5 Decisions to Withhold Certification

§ 9.5.1 The Architect may withhold a Certificate for Payment in whole or in part, to the extent reasonably necessary to protect the Owner, if in the Architect's opinion the representations to the Owner required by Section 9.4.2 cannot be made. If the Architect is unable to certify payment in the amount of the Application, the Architect will notify the Contractor and Owner as provided in Section 9.4.1. If the Contractor and Architect cannot agree on a revised amount, the Architect will promptly issue a Certificate for Payment for the amount for which the Architect is able to make such representations to the Owner. The Architect may also withhold a Certificate for Payment or, because of subsequently discovered evidence, may nullify the whole or a part of a Certificate for Payment previously issued, to such extent as may be necessary in the Architect's opinion to protect the Owner from loss for which the Contractor is responsible, including loss resulting from acts and omissions described in Section 3.3.2, because of

- **.1** defective Work not remedied;
- **.2** third party claims filed or reasonable evidence indicating probable filing of such claims, unless security acceptable to the Owner is provided by the Contractor;
- **.3** failure of the Contractor to make payments properly to Subcontractors or suppliers for labor, materials or equipment;
- **.4** reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Sum;
- **.5** damage to the Owner or a Separate Contractor;
- **.6** reasonable evidence that the Work will not be completed within the Contract Time, and that the unpaid balance would not be adequate to cover actual or liquidated damages for the anticipated delay; or
- **.7** repeated failure to carry out the Work in accordance with the Contract Documents.

§ 9.5.2 When either party disputes the Architect's decision regarding a Certificate for Payment under Section 9.5.1, in whole or in part, that party may submit a Claim in accordance with Article 15.

§ 9.5.3 When the reasons for withholding certification are removed, certification will be made for amounts previously withheld.

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§ 9.5.4 If the Architect withholds certification for payment under Section 9.5.1.3, the Owner may, at its sole option, issue joint checks to the Contractor and to any Subcontractor or supplier to whom the Contractor failed to make payment for Work properly performed or material or equipment suitably delivered. If the Owner makes payments by joint check, the Owner shall notify the Architect and the Contractor shall reflect such payment on its next Application for Payment.

§ 9.6 Progress Payments

§ 9.6.1 After the Architect has issued a Certificate for Payment, the Owner shall make payment in the manner and within the time provided in the Contract Documents, and shall so notify the Architect.

§ 9.6.2 The Contractor shall pay each Subcontractor, no later than seven days after receipt of payment from the Owner, the amount to which the Subcontractor is entitled, reflecting percentages actually retained from payments to the Contractor on account of the Subcontractor's portion of the Work. The Contractor shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to Sub-subcontractors in a similar manner.

§ 9.6.3 The Architect will, on request, furnish to a Subcontractor, if practicable, information regarding percentages of completion or amounts applied for by the Contractor and action taken thereon by the Architect and Owner on account of portions of the Work done by such Subcontractor.

§ 9.6.4 The Owner has the right to request written evidence from the Contractor that the Contractor has properly paid Subcontractors and suppliers amounts paid by the Owner to the Contractor for subcontracted Work. If the Contractor fails to furnish such evidence within seven days, the Owner shall have the right to contact Subcontractors and suppliers to ascertain whether they have been properly paid. Neither the Owner nor Architect shall have an obligation to pay, or to see to the payment of money to, a Subcontractor or supplier, except as may otherwise be required by law.

§ 9.6.5 The Contractor's payments to suppliers shall be treated in a manner similar to that provided in Sections 9.6.2, 9.6.3 and 9.6.4.

§ 9.6.6 A Certificate for Payment, a progress payment, or partial or entire use or occupancy of the Project by the Owner shall not constitute acceptance of Work not in accordance with the Contract Documents.

§ 9.6.7 Unless the Contractor provides the Owner with a payment bond in the full penal sum of the Contract Sum, payments received by the Contractor for Work properly performed by Subcontractors or provided by suppliers shall be held by the Contractor for those Subcontractors or suppliers who performed Work or furnished materials, or both, under contract with the Contractor for which payment was made by the Owner. Nothing contained herein shall require money to be placed in a separate account and not commingled with money of the Contractor, create any fiduciary liability or tort liability on the part of the Contractor for breach of trust, or entitle any person or entity to an award of punitive damages against the Contractor for breach of the requirements of this provision.

§ 9.6.8 Provided the Owner has fulfilled its payment obligations under the Contract Documents, the Contractor shall defend and indemnify the Owner from all loss, liability, damage or expense, including reasonable attorney's fees and litigation expenses, arising out of any lien claim or other claim for payment by any Subcontractor or supplier of any tier. Upon receipt of notice of a lien claim or other claim for payment, the Owner shall notify the Contractor. If approved by the applicable court, when required, the Contractor may substitute a surety bond for the property against which the lien or other claim for payment has been asserted.

§ 9.7 Failure of Payment

The Contractor has no right to stop Work as a consequence of non-payment. In the event of any disagreement between the Contractor and Owner involving the Contractor's entitlement to payment, the Contractor's only remedy is to file a Claim in accordance with Article 15. The Contractor must diligently proceed with the Work pending resolution of the Claim. If, however, an Application for Payment has been certified by the Architect, and the Owner fails to make payment within sixty (60) days of Architect's certification, the Contractor may upon ten (10) days'

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written notice to the Owner, stop work if payment is not made by the Owner within ten (10) days following the notice.

§ 9.8 Substantial Completion

§ 9.8.1 Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use , and the remaining outstanding work is considered minor. The Project will not be considered complete before, at a minimum, the AHJ's have given written approval for the Owner to occupy the premises.

§ 9.8.2 When the Contractor considers that the Work, or a portion thereof which the Owner agrees to accept separately, is substantially complete, the Contractor shall prepare and submit to the Architect a comprehensive list of items to be completed or corrected prior to final payment. Failure to include an item on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

§ 9.8.3 Upon receipt of the Contractor's list, the Architect will make an inspection to determine whether the Work or designated portion thereof is substantially complete. If the Architect's inspection discloses any item, whether or not included on the Contractor's list, which is not sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work or designated portion thereof for its intended use, the Contractor shall, before issuance of the Certificate of Substantial Completion, complete or correct such item upon notification by the Architect. In such case, the Contractor shall then submit a request for another inspection by the Architect to determine Substantial Completion.

§ 9.8.4 When the Work or designated portion thereof is substantially complete, the Architect will prepare a Certificate of Substantial Completion that shall establish the date of Substantial Completion; establish responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance; and fix the time within which the Contractor shall finish all items on the list accompanying the Certificate. Warranties required by the Contract Documents shall commence on the date of Substantial Completion of the Work or designated portion thereof unless otherwise provided in the Certificate of Substantial Completion.

§ 9.8.5 The Certificate of Substantial Completion shall be submitted to the Owner and Contractor for their written acceptance of responsibilities assigned to them in the Certificate..

§ 9.8.6 Unless otherwise provided in the Certificate for Substantial Completion, the Contractor must complete or correct all items included in the final Punch List within thirty (30) days after the Date of Substantial Completion.

§ 9.9 Partial Occupancy or Use

§ 9.9.1 The Owner may occupy or use any completed or partially completed portion of the Work at any stage when such portion is designated by separate agreement with the Contractor, provided such occupancy or use is consented to by the insurer and authorized by public authorities having jurisdiction over the Project. Such partial occupancy or use may commence whether or not the portion is substantially complete, provided the Owner and Contractor have accepted in writing the responsibilities assigned to each of them for payments, retainage, if any, security, maintenance, heat, utilities, damage to the Work and insurance, and have agreed in writing concerning the period for correction of the Work and commencement of warranties required by the Contract Documents. When the Contractor considers a portion substantially complete, the Contractor shall prepare and submit a list to the Architect as provided under Section 9.8.2. Consent of the Contractor to partial occupancy or use shall not be unreasonably withheld. The stage of the progress of the Work shall be determined by written agreement between the Owner and Contractor or, if no agreement is reached, by decision of the Architect.

§ 9.9.2 Immediately prior to such partial occupancy or use, the Owner, Contractor, and Architect shall jointly inspect the area to be occupied or portion of the Work to be used in order to determine and record the condition of the Work.

§ 9.9.3 Unless otherwise agreed upon, partial occupancy or use of a portion or portions of the Work shall not constitute acceptance of Work not complying with the requirements of the Contract Documents.

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§ 9.10 Final Completion and Final Payment

§ 9.10.1 Upon receipt of the Contractor's notice that the Work is ready for final inspection and acceptance and upon receipt of a final Application for Payment, the Architect will promptly make such inspection. When the Architect finds the Work acceptable under the Contract Documents and the Contract fully performed, the Architect will promptly issue a final Certificate for Payment stating that to the best of the Architect's knowledge, information and belief, and on the basis of the Architect's on-site visits and inspections, the Work has been completed in accordance with the Contract Documents and that the entire balance found to be due the Contractor and noted in the final Certificate is due and payable. The Architect's final Certificate for Payment will constitute a further representation that conditions listed in Section 9.10.2 as precedent to the Contractor's being entitled to final payment have been fulfilled.

§ 9.10.2 Neither final payment nor any remaining retained percentage shall become due until the Contractor submits to the Architect (1) an affidavit that payrolls, bills for materials and equipment, and other indebtedness connected with the Work for which the Owner or the Owner's property might be responsible or encumbered (less amounts withheld by Owner) have been paid or otherwise satisfied, (2) a certificate evidencing that insurance required by the Contract Documents to remain in force after final payment is currently in effect, (3) a written statement that the Contractor knows of no reason that the insurance will not be renewable to cover the period required by the Contract Documents, (4) consent of surety, if any, to final payment, (5) documentation of any special warranties, such as manufacturers' warranties or specific Subcontractor warranties, and (6) if required by the Owner, other data establishing payment or satisfaction of obligations, such as receipts and releases and waivers of liens, claims, security interests, or encumbrances arising out of the Contract, to the extent and in such form as may be designated by the Owner. If a Subcontractor refuses to furnish a release or waiver required by the Owner, the Contractor may furnish a bond satisfactory to the Owner to indemnify the Owner against such lien, claim, security interest, or encumbrance. If a lien, claim, security interest, or encumbrance remains unsatisfied after payments are made, the Contractor shall refund to the Owner all money that the Owner may be compelled to pay in discharging the lien, claim, security interest, or encumbrance, including all costs and reasonable attorneys' fees.

§ 9.10.3 If, after Substantial Completion of the Work, final completion thereof is materially delayed through no fault of the Contractor or by issuance of Change Orders affecting final completion, and the Architect so confirms, the Owner shall, upon application by the Contractor and certification by the Architect, and without terminating the Contract, make payment of the balance due for that portion of the Work fully completed, corrected, and accepted. If the remaining balance for Work not fully completed or corrected is less than retainage stipulated in the Contract Documents, and if bonds have been furnished, the written consent of the surety to payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by the Contractor to the Architect prior to certification of such payment. Such payment shall be made under terms and conditions governing final payment, except that it shall not constitute a waiver of Claims.

§ 9.10.5 Acceptance of final payment by the Contractor, a Subcontractor, or a supplier, shall constitute a waiver of claims by that payee except those previously made in writing and identified by that payee as unsettled at the time of final Application for Payment.

ARTICLE 10 PROTECTION OF PERSONS AND PROPERTY

§ 10.1 Safety Precautions and Programs

The Contractor shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the Contract.

§ 10.2 Safety of Persons and Property

§ 10.2.1 The Contractor shall take reasonable precautions for safety of, and shall provide reasonable protection to prevent damage, injury, or loss to

.1 employees on the Work and other persons who may be affected thereby;

.2 the Work and materials and equipment to be incorporated therein, whether in storage on or off the site, under care, custody, or control of the Contractor, a Subcontractor, or a Sub-subcontractor; and

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.3 other property at the site or adjacent thereto, such as trees, shrubs, lawns, walks, pavements, roadways, structures, and utilities not designated for removal, relocation, or replacement in the course of construction.

§ 10.2.2 The Contractor shall comply with, and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities, bearing on safety of persons or property or their protection from damage, injury, or loss.

§ 10.2.3 The Contractor shall implement, erect, and maintain, as required by existing conditions and performance of the Contract, reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards; promulgating safety regulations; and notifying the owners and users of adjacent sites and utilities of the safeguards.

§ 10.2.3.1 During the progress of the Work, the Contractor shall protect all existing and new work from injury or defacement and particular care shall be taken of all finished parts. Any damage occurring to the work from any cause, including any damage caused by others and utilities, shall be properly repaired and/or replaced at the Contractor's expense to the satisfaction of the Owner or Owner's representative.
§ 10.2.3.2 The Contractor is also responsible for any repair and/or maintenance required throughout the project limits from Notice to Proceed until final acceptance of the Work by the Owner. These maintenance items or repairs include, but are not limited to: pothole repair, resurfacing temporary roads, maintenance of utility cuts, street sweeping, and mowing.

§ 10.2.3.3 The Contractor is responsible for protecting adjacent properties and utilities as required during the execution of this work. Provide shoring or underpinning as required for safe excavations to meet OSHA requirements and to protect adjacent streets, sidewalks, utilities and existing structures. If this requires engineered shoring systems, the Contractor will provide as needed at no additional cost to the Owner.

§ 10.2.4 When use or storage of explosives or other hazardous materials or equipment, or unusual methods are necessary for execution of the Work, the Contractor shall exercise utmost care and carry on such activities under supervision of properly qualified personnel.

§ 10.2.5 The Contractor shall promptly remedy damage and loss (other than damage or loss insured under property insurance required by the Contract Documents) to property referred to in Sections 10.2.1.2 and 10.2.1.3 caused in whole or in part by the Contractor, a Subcontractor, a Sub-subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable and for which the Contractor is responsible under Sections 10.2.1.2 and 10.2.1.3. The Contractor may make a Claim for the cost to remedy the damage or loss to the extent such damage or loss is attributable to acts or omissions of the Owner or Architect or anyone directly or indirectly employed by either of them, or by anyone for whose acts either of them may be liable, and not attributable to the fault or negligence of the Contractor. The foregoing obligations of the Contractor are in addition to the Contractor's obligations under Section 3.18.

§ 10.2.6 The Contractor shall designate a responsible member of the Contractor's organization at the site whose duty shall be the prevention of accidents. This person shall be the Contractor's superintendent unless otherwise designated by the Contractor in writing to the Owner and Architect.

§ 10.2.7 The Contractor shall not permit any part of the construction or site to be loaded so as to cause damage or create an unsafe condition.

§ 10.2.8 Injury or Damage to Person or Property
If either party suffers injury or damage to person or property because of an act or omission of the other party, or of others for whose acts such party is legally responsible, notice of the injury or damage, whether or not insured, shall be given to the other party within a reasonable time not exceeding 21 days after discovery. The notice shall provide sufficient detail to enable the other party to investigate the matter.

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§ 10.3 Hazardous Materials and Substances

§ 10.3.1 The Contractor is responsible for compliance with any requirements included in the Contract Documents regarding hazardous materials or substances. If the Contractor encounters a hazardous material or substance not addressed in the Contract Documents and if reasonable precautions will be inadequate to prevent foreseeable bodily injury or death to persons resulting from a material or substance, including but not limited to asbestos or polychlorinated biphenyl (PCB), encountered on the site by the Contractor, the Contractor shall, upon recognizing the condition, immediately stop Work in the affected area and notify the Owner and Architect of the condition.

§ 10.3.2 Upon receipt of the Contractor's notice, the Owner shall obtain the services of a licensed laboratory to verify the presence or absence of the material or substance reported by the Contractor and, in the event such material or substance is found to be present, to cause it to be rendered harmless. Unless otherwise required by the Contract Documents, the Owner shall furnish in writing to the Contractor and Architect the names and qualifications of persons or entities who are to perform tests verifying the presence or absence of the material or substance or who are to perform the task of removal or safe containment of the material or substance. The Contractor and the Architect will promptly reply to the Owner in writing stating whether or not either has reasonable objection to the persons or entities proposed by the Owner. If either the Contractor or Architect has an objection to a person or entity proposed by the Owner, the Owner shall propose another to whom the Contractor and the Architect have no reasonable objection. When the material or substance has been rendered harmless, Work in the affected area shall resume upon written agreement of the Owner and Contractor. By Change Order, the Contract Time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable additional costs of shutdown, delay, and start-up.

§ 10.3.3 To the fullest extent permitted by law, the Owner shall indemnify and hold harmless the Contractor, Subcontractors, Architect, Architect's consultants, and agents and employees of any of them from and against claims, damages, losses, and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work in the affected area if in fact the material or substance presents the risk of bodily injury or death as described in Section 10.3.1 and has not been rendered harmless, provided that such claim, damage, loss, or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), except to the extent that such damage, loss, or expense is due to the fault or negligence of the party seeking indemnity.

§ 10.3.4 The Owner shall not be responsible under this Section 10.3 for hazardous materials or substances the Contractor brings to the site unless such materials or substances are required by the Contract Documents. The Owner shall be responsible for hazardous materials or substances required by the Contract Documents, except to the extent of the Contractor's fault or negligence in the use and handling of such materials or substances.

§ 10.3.5 The Contractor shall reimburse the Owner for the cost and expense the Owner incurs (1) for remediation of hazardous materials or substances the Contractor brings to the site and negligently handles, or (2) where the Contractor fails to perform its obligations under Section 10.3.1, except to the extent that the cost and expense are due to the Owner's fault or negligence.

§ 10.3.6 If, without negligence on the part of the Contractor, the Contractor is held liable by a government agency for the cost of remediation of a hazardous material or substance solely by reason of performing Work as required by the Contract Documents, the Owner shall reimburse the Contractor for all cost and expense thereby incurred.

§ 10.4 Emergencies

In an emergency affecting safety of persons or property, the Contractor shall act, at the Contractor's discretion, to prevent threatened damage, injury, or loss. Additional compensation or extension of time claimed by the Contractor on account of an emergency shall be determined as provided in Article 15 and Article 7.

ARTICLE 11 INSURANCE AND BONDS

§ 11.1 Contractor's Insurance and Bonds

§ 11.1.1 The Contractor shall purchase and maintain insurance of the types and limits of liability, containing the endorsements, and subject to the terms and conditions, as described in the Agreement or elsewhere in the Contract Documents. Refer to Exhibit A, Insurance and Bonds. The Contractor shall purchase and maintain the required

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insurance from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located. The Owner, Owner's Representative, Architect, and Architect's consultants shall be named as additional insureds under the Contractor's commercial general liability policy or as otherwise described in the Contract Documents. The Contractor shall maintain required insurance until the expiration of the period of correction of Work set forth in Section 12.2.2 of the General Conditions.

§ 11.1.2 The Contractor shall provide surety bonds of the types, for such penal sums, and subject to such terms and conditions as required by the Contract Documents. Refer to Exhibit A, Insurance and Bonds. The Contractor shall purchase and maintain the required bonds from a company or companies lawfully authorized to issue surety bonds in the jurisdiction where the Project is located.

§ 11.1.3 Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall authorize a copy to be furnished.

§ 11.1.4 Notice of Cancellation or Expiration of Contractor's Required Insurance. Within three (3) business days of the date the Contractor becomes aware of an impending or actual cancellation or expiration of any insurance required by the Contract Documents, the Contractor shall provide notice to the Owner of such impending or actual cancellation or expiration. Upon receipt of notice from the Contractor, the Owner shall, unless the lapse in coverage arises from an act or omission of the Owner, have the right to stop the Work until the lapse in coverage has been cured by the procurement of replacement coverage by the Contractor. The furnishing of notice by the Contractor shall not relieve the Contractor of any contractual obligation to provide any required coverage.

§ 11.3 Waivers of Subrogation

§ 11.3.1 The Owner and Contractor waive all rights against (1) each other and any of their subcontractors, sub-subcontractors, agents, and employees, each of the other; (2) the Architect and Architect's consultants; and (3) Separate Contractors, if any, and any of their subcontractors, sub-subcontractors, agents, and employees, for damages caused by fire, or other causes of loss, to the extent those losses are covered by property insurance required by the Agreement or other property insurance applicable to the Project, except such rights as they have to proceeds of such insurance. The Owner or Contractor, as appropriate, shall require similar written waivers in favor of the individuals and entities identified above from the Architect, Architect's consultants, Separate Contractors, subcontractors, and sub-subcontractors. The policies of insurance purchased and maintained by each person or entity agreeing to waive claims pursuant to this section 11.3.1 shall not prohibit this waiver of subrogation. This waiver of subrogation shall be effective as to a person or entity (1) even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, (2) even though that person or entity did not pay the insurance premium directly or indirectly, or (3) whether or not the person or entity had an insurable interest in the damaged property.

ARTICLE 12 UNCOVERING AND CORRECTION OF WORK

§ 12.1 Uncovering of Work

§ 12.1.1 If a portion of the Work is covered contrary to the Architect's request or to requirements specifically expressed in the Contract Documents, it must, if requested in writing by the Architect, be uncovered for the Architect's examination and be replaced at the Contractor's expense without change in the Contract Time.

§ 12.1.2 If a portion of the Work has been covered that the Architect has not specifically requested to examine prior to its being covered, the Architect may request to see such Work and it shall be uncovered by the Contractor. If such Work is in accordance with the Contract Documents, the Contractor shall be entitled to an equitable adjustment to the Contract Sum and Contract Time as may be appropriate. If such Work is not in accordance with the Contract Documents, the costs of uncovering the Work, and the cost of correction, shall be at the Contractor's expense.

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§ 12.2 Correction of Work

§ 12.2.1 Before Substantial Completion

The Contractor shall promptly correct Work rejected by the Architect or failing to conform to the requirements of the Contract Documents, discovered before Substantial Completion and whether or not fabricated, installed or completed. Costs of correcting such rejected Work, including additional testing and inspections, the cost of uncovering and replacement, and compensation for the Architect's services and expenses made necessary thereby, shall be at the Contractor's expense.

§ 12.2.2 After Substantial Completion

§ 12.2.2.1 In addition to the Contractor's obligations under Section 3.5, if, within one year after the date of Substantial Completion of the Work or designated portion thereof or after the date for commencement of warranties established under Section 9.9.1, or by terms of any applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it promptly after receipt of notice from the Owner to do so, unless the Owner has previously given the Contractor a written acceptance of such condition. The Owner shall give such notice promptly after discovery of the condition.. If the Contractor fails to correct nonconforming Work within a reasonable time during that period after receipt of notice from the Owner or Architect, the Owner may correct it in accordance with Section 2.5.

§ 12.2.2.2 The one-year period for correction of Work shall be extended with respect to portions of Work first performed after Substantial Completion by the period of time between Substantial Completion and the actual completion of that portion of the Work.

§ 12.2.2.3 The one-year period for correction of Work shall not be extended by corrective Work performed by the Contractor pursuant to this Section 12.2.

§ 12.2.3 The Contractor shall remove from the site portions of the Work that are not in accordance with the requirements of the Contract Documents and are neither corrected by the Contractor nor accepted by the Owner.

§ 12.2.4 The Contractor shall bear the cost of correcting destroyed or damaged construction of the Owner or Separate Contractors, whether completed or partially completed, caused by the Contractor's correction or removal of Work that is not in accordance with the requirements of the Contract Documents.

§ 12.2.5 Nothing contained in this Section 12.2 shall be construed to establish a period of limitation with respect to other obligations the Contractor has under the Contract Documents. Establishment of the one-year period for correction of Work as described in Section 12.2.2 relates only to the specific obligation of the Contractor to correct the Work, and has no relationship to the time within which the obligation to comply with the Contract Documents may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to the Contractor's obligations other than specifically to correct the Work.

§ 12.3 Acceptance of Nonconforming Work

If the Owner prefers to accept Work that is not in accordance with the requirements of the Contract Documents, the Owner may do so instead of requiring its removal and correction, in which case the Contract Sum will be reduced as appropriate and equitable. Such adjustment shall be effected whether or not final payment has been made.

ARTICLE 13 MISCELLANEOUS PROVISIONS

§ 13.1 Governing Law

The Contract shall be governed by the law of the place where the Project is located, excluding that jurisdiction's choice of law rules. If the parties have selected arbitration as the method of binding dispute resolution, the Federal Arbitration Act shall govern Section 15.4.

§ 13.2 Successors and Assigns

§ 13.2.1 The Owner and Contractor respectively bind themselves, their partners, successors, assigns, and legal representatives to covenants, agreements, and obligations contained in the Contract Documents. Except as provided in Section 13.2.2, neither party to the Contract shall assign the Contract as a whole without written consent of the

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other. If either party attempts to make an assignment without such consent, that party shall nevertheless remain legally responsible for all obligations under the Contract.

§ 13.2.2 The Owner may, without consent of the Contractor, assign the Contract to a lender providing construction financing for the Project, if the lender assumes the Owner's rights and obligations under the Contract Documents. The Contractor shall execute all consents reasonably required to facilitate the assignment.

§ 13.3 Rights and Remedies

§ 13.3.1 Duties and obligations imposed by the Contract Documents and rights and remedies available thereunder shall be in addition to and not a limitation of duties, obligations, rights, and remedies otherwise imposed or available by law.

§ 13.3.2 No action or failure to act by the Owner, Architect, or Contractor shall constitute a waiver of a right or duty afforded them under the Contract, nor shall such action or failure to act constitute approval of or acquiescence in a breach thereunder, except as may be specifically agreed upon in writing.

§ 13.4 Tests and Inspections

§ 13.4.1 Tests, inspections, and approvals of portions of the Work shall be made as required by the Contract Documents and by applicable laws, statutes, ordinances, codes, rules, and regulations or lawful orders of public authorities. Unless otherwise provided, the Contractor shall make arrangements for such tests, inspections, and approvals with an independent testing laboratory or entity acceptable to the Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections, and approvals. The Contractor shall give the Architect timely notice of when and where tests and inspections are to be made so that the Architect may be present for such procedures. The Owner shall bear costs of tests, inspections, or approvals that do not become requirements until after bids are received or negotiations concluded. The Owner shall directly arrange and pay for tests, inspections, or approvals where building codes or applicable laws or regulations so require.

§ 13.4.2 If the Architect, Owner, or public authorities having jurisdiction determine that portions of the Work require additional testing, inspection, or approval not included under Section 13.4.1, the Architect will, upon written authorization from the Owner, instruct the Contractor to make arrangements for such additional testing, inspection, or approval, by an entity acceptable to the Owner, and the Contractor shall give timely notice to the Architect of when and where tests and inspections are to be made so that the Architect may be present for such procedures. Such costs, except as provided in Section 13.4.3, shall be at the Owner's expense.

§ 13.4.3 If procedures for testing, inspection, or approval under Sections 13.4.1 and 13.4.2 reveal failure of the portions of the Work to comply with requirements established by the Contract Documents, all costs made necessary by such failure, including those of repeated procedures and compensation for the Architect's services and expenses, shall be at the Contractor's expense.

§ 13.4.4 Required certificates of testing, inspection, or approval shall, unless otherwise required by the Contract Documents, be secured by the Contractor and promptly delivered to the Architect.

§ 13.4.5 If the Architect is to observe tests, inspections, or approvals required by the Contract Documents, the Architect will do so promptly and, where practicable, at the normal place of testing.

§ 13.4.6 Tests or inspections conducted pursuant to the Contract Documents shall be made promptly to avoid unreasonable delay in the Work.

§ 13.5 Not Used.

§ 13.6 Truck, Traffic and Other Restrictions

§ 13.6.1 Contractor shall provide barricades, signage, flagging and flagman for traffic control and public safety during the execution of the Work, including deliveries and construction vehicles entering and leaving the site. Contractor shall coordinate road closures, and provide traffic control plans and measures required by authorities

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having jurisdiction. Contractor to coordinate road closures with the Owner, Architect, Owner's Representative, and authorities having jurisdiction.

§ 13.6.2 There shall be absolutely no firearms carried by any individual on any Owner's work site.

ARTICLE 14 TERMINATION OR SUSPENSION OF THE CONTRACT

§ 14.1 Termination by the Contractor

§ 14.1.1 The Contractor may terminate the Contract if the Work is stopped for a period of 30 consecutive days through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, their agents or employees, or any other persons or entities performing portions of the Work, for any of the following reasons:

- **.1** Issuance of an order of a court or other public authority having jurisdiction that requires all Work to be stopped;
- **.2** An act of government, such as a declaration of national emergency, that requires all Work to be stopped;
- **.3** Because the Architect has not issued a Certificate for Payment and has not notified the Contractor of the reason for withholding certification as provided in Section 9.4.1, or because the Owner has not made payment on a Certificate for Payment within the time stated in the Contract Documents; or
- **.4** The Owner has failed to furnish to the Contractor reasonable evidence as required by Section 2.2.

§ 14.1.2 The Contractor may terminate the Contract if, through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, their agents or employees, or any other persons or entities performing portions of the Work, repeated suspensions, delays, or interruptions of the entire Work by the Owner as described in Section 14.3, constitute in the aggregate more than 100 percent of the total number of days scheduled for completion, or 120 days in any 365-day period, whichever is less.

§ 14.1.3 If one of the reasons described in Section 14.1.1 or 14.1.2 exists, the Contractor may, upon seven days' notice to the Owner and Architect, terminate the Contract and recover from the Owner payment for Work executed, as well as reasonable overhead and profit on Work not executed, and costs incurred by reason of such termination.

§ 14.1.4 If the Work is stopped for a period of 60 consecutive days through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, or their agents or employees or any other persons or entities performing portions of the Work because the Owner has repeatedly failed to fulfill the Owner's obligations under the Contract Documents with respect to matters important to the progress of the Work, the Contractor may, upon seven additional days' notice to the Owner and the Architect, terminate the Contract and recover from the Owner as provided in Section 14.1.3.

§ 14.2 Termination by the Owner for Cause

§ 14.2.1 The Owner may terminate the Contract if the Contractor

- **.1** repeatedly refuses or fails to supply enough properly skilled workers or proper materials;
- **.2** fails to make payment to Subcontractors or suppliers in accordance with the respective agreements between the Contractor and the Subcontractors or suppliers;
- **.3** repeatedly disregards applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of a public authority; or
- **.4** otherwise is guilty of substantial breach of a provision of the Contract Documents.

§ 14.2.2 When any of the reasons described in Section 14.2.1 exist, and upon certification by the Architect that sufficient cause exists to justify such action, the Owner may, without prejudice to any other rights or remedies of the Owner and after giving the Contractor and the Contractor's surety, if any, seven days' notice, terminate employment of the Contractor and may, subject to any prior rights of the surety:

- **.1** Exclude the Contractor from the site and take possession of all materials, equipment, tools, and construction equipment and machinery thereon owned by the Contractor;
- **.2** Accept assignment of subcontracts pursuant to Section 5.4; and

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.3 Finish the Work by whatever reasonable method the Owner may deem expedient. Upon written request of the Contractor, the Owner shall furnish to the Contractor a detailed accounting of the costs incurred by the Owner in finishing the Work.

§ 14.2.3 When the Owner terminates the Contract for one of the reasons stated in Section 14.2.1, the Contractor shall not be entitled to receive further payment until the Work is finished.

§ 14.2.4 If the unpaid balance of the Contract Sum exceeds costs of finishing the Work, including compensation for the Architect's and Owner Representative's services and expenses made necessary thereby, and other damages incurred by the Owner and not expressly waived, such excess shall be paid to the Contractor. If such costs and damages exceed the unpaid balance, the Contractor shall pay the difference to the Owner. The amount to be paid to the Contractor or Owner, as the case may be, shall be certified by the Initial Decision Maker, upon application, and this obligation for payment shall survive termination of the Contract.

§ 14.3 Suspension by the Owner for Convenience

§ 14.3.1 The Owner may, without cause, order the Contractor in writing to suspend, delay or interrupt the Work, in whole or in part for such period of time as the Owner may determine.

§ 14.3.2 The Contract Sum and Contract Time shall be adjusted for increases in the cost and time caused by suspension, delay, or interruption under Section 14.3.1. Adjustment of the Contract Sum shall include profit. No adjustment shall be made to the extent

.1 that performance is, was, or would have been, so suspended, delayed, or interrupted, by another cause for which the Contractor is responsible; or

.2 that an equitable adjustment is made or denied under another provision of the Contract.

§ 14.4 Termination by the Owner for Convenience

§ 14.4.1 The Owner may, at any time, terminate the Contract for the Owner's convenience and without cause.

§ 14.4.2 Upon receipt of notice from the Owner of such termination for the Owner's convenience, the Contractor shall

.1 cease operations as directed by the Owner in the notice;

.2 take actions necessary, or that the Owner may direct, for the protection and preservation of the Work; and

.3 except for Work directed to be performed prior to the effective date of termination stated in the notice, terminate all existing subcontracts and purchase orders and enter into no further subcontracts and purchase orders.

§ 14.4.3 In case of such termination for the Owner's convenience, the Owner shall pay the Contractor for Work properly executed; costs incurred by reason of the termination, including costs attributable to termination of Subcontracts.

ARTICLE 15 CLAIMS AND DISPUTES

§ 15.1 Claims

§ 15.1.1 Definition

A Claim is a demand or assertion by one of the parties seeking, as a matter of right, payment of money, a change in the Contract Time, or other relief with respect to the terms of the Contract. The term "Claim" also includes other disputes and matters in question between the Owner and Contractor arising out of or relating to the Contract. The responsibility to substantiate Claims shall rest with the party making the Claim. This Section 15.1.1 does not require the Owner to file a Claim in order to impose liquidated damages in accordance with the Contract Documents.

§ 15.1.2 Time Limits on Claims

The Owner and Contractor shall commence all Claims and causes of action against the other and arising out of or related to the Contract, whether in contract, tort, breach of warranty or otherwise, in accordance with the requirements of the binding dispute resolution method selected in the Agreement and within the period specified by

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applicable law, but in any case not more than 10 years after the date of Substantial Completion of the Work. The Owner and Contractor waive all Claims and causes of action not commenced in accordance with this Section 15.1.2.

§ 15.1.3 Notice of Claims

§ 15.1.3.1 Claims by either the Owner or Contractor, where the condition giving rise to the Claim is first discovered prior to expiration of the period for correction of the Work set forth in Section 12.2.2, shall be initiated by notice to the other party and to the Initial Decision Maker with a copy sent to the Architect and the Owner's Representative, if the Architect is not serving as the Initial Decision Maker. Claims by either party under this Section 15.1.3.1 shall be initiated within 10 calendar days after occurrence of the event giving rise to such Claim or within 10 calendar days after the claimant first recognizes the condition giving rise to the Claim, whichever is later.

§ 15.1.3.1.1 Any claims for delays to critical path activities shall be submitted to the Owner, Architect, and Owner's Representative within 72 hours of actual knowledge of the occurrence, identifying the event and the impacted critical path activity. The Owner, Architect, and Owner's Representative will review to determine if the claim will be considered a valid delay. Each day claimed shall be tracked on a log for review at the bi-weekly Owner Meeting.

§ 15.1.3.2 Claims by either the Owner or Contractor, where the condition giving rise to the Claim is first discovered after expiration of the period for correction of the Work set forth in Section 12.2.2, shall be initiated by notice to the other party. In such event, no decision by the Initial Decision Maker is required.

§ 15.1.4 Continuing Contract Performance

§ 15.1.4.1 Pending final resolution of a Claim, except as otherwise agreed in writing or as provided in Section 9.7 and Article 14, the Contractor shall proceed diligently with performance of the Contract and the Owner shall continue to make payments in accordance with the Contract Documents.

§ 15.1.4.2 The Contract Sum and Contract Time shall be adjusted in accordance with the Initial Decision Maker's decision, subject to the right of either party to proceed in accordance with this Article 15. The Architect will issue Certificates for Payment in accordance with the decision of the Initial Decision Maker.

§ 15.1.5 Claims for Additional Cost

If the Contractor wishes to make a Claim for an increase in the Contract Sum, notice as provided in Section 15.1.3 shall be given before proceeding to execute the portion of the Work that is the subject of the Claim. Prior notice is not required for Claims relating to an emergency endangering life or property arising under Section 10.4.

§ 15.1.6 Claims for Additional Time

§ 15.1.6.1 If the Contractor wishes to make a Claim for an increase in the Contract Time, notice as provided in Section 15.1.3 shall be given. The Contractor's Claim shall include an estimate of cost and of probable effect of delay on progress of the Work. In the case of a continuing delay, only one Claim is necessary.

§ 15.2 Initial Decision

§ 15.2.1 Claims, excluding those where the condition giving rise to the Claim is first discovered after expiration of the period for correction of the Work set forth in Section 12.2.2 or arising under Sections 10.3, 10.4, and 11.5, shall be referred to the Initial Decision Maker for initial decision. The Architect will serve as the Initial Decision Maker, unless otherwise indicated in the Agreement. Except for those Claims excluded by this Section 15.2.1, an initial decision shall be required as a condition precedent to mediation of any Claim. If an initial decision has not been rendered within 30 days after the Claim has been referred to the Initial Decision Maker, the party asserting the Claim may demand mediation and binding dispute resolution without a decision having been rendered. Unless the Initial Decision Maker and all affected parties agree, the Initial Decision Maker will not decide disputes between the Contractor and persons or entities other than the Owner.

§ 15.2.2 The Initial Decision Maker will review Claims and within ten days of the receipt of a Claim take one or more of the following actions: (1) request additional supporting data from the claimant or a response with supporting data from the other party, (2) reject the Claim in whole or in part, (3) approve the Claim, (4) suggest a compromise, or (5) advise the parties that the Initial Decision Maker is unable to resolve the Claim if the Initial Decision Maker

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lacks sufficient information to evaluate the merits of the Claim or if the Initial Decision Maker concludes that, in the Initial Decision Maker's sole discretion, it would be inappropriate for the Initial Decision Maker to resolve the Claim.

§ 15.2.3 In evaluating Claims, the Initial Decision Maker may, but shall not be obligated to, consult with or seek information from either party or from persons with special knowledge or expertise who may assist the Initial Decision Maker in rendering a decision. The Initial Decision Maker may request the Owner to authorize retention of such persons at the Owner's expense.

§ 15.2.4 If the Initial Decision Maker requests a party to provide a response to a Claim or to furnish additional supporting data, such party shall respond, within ten days after receipt of the request, and shall either (1) provide a response on the requested supporting data, (2) advise the Initial Decision Maker when the response or supporting data will be furnished, or (3) advise the Initial Decision Maker that no supporting data will be furnished. Upon receipt of the response or supporting data, if any, the Initial Decision Maker will either reject or approve the Claim in whole or in part.

§ 15.2.5 The Initial Decision Maker will render an initial decision approving or rejecting the Claim, or indicating that the Initial Decision Maker is unable to resolve the Claim. This initial decision shall (1) be in writing; (2) state the reasons therefor; and (3) notify the parties and the Architect, if the Architect is not serving as the Initial Decision Maker, of any change in the Contract Sum or Contract Time or both. The initial decision shall be final and binding on the parties but subject to mediation and, if the parties fail to resolve their dispute through mediation, to binding dispute resolution.

§ 15.2.6 Either party may file for mediation of an initial decision at any time, subject to the terms of Section 15.2.6.1.

§ 15.2.6.1 Either party may, within 30 days from the date of receipt of an initial decision, demand in writing that the other party file for mediation. If such a demand is made and the party receiving the demand fails to file for mediation within 30 days after receipt thereof, then both parties waive their rights to mediate or pursue binding dispute resolution proceedings with respect to the initial decision.

§ 15.2.7 In the event of a Claim against the Contractor, the Owner may, but is not obligated to, notify the surety, if any, of the nature and amount of the Claim. If the Claim relates to a possibility of a Contractor's default, the Owner may, but is not obligated to, notify the surety and request the surety's assistance in resolving the controversy.

§ 15.2.8 If a Claim relates to or is the subject of a mechanic's lien, the party asserting such Claim may proceed in accordance with applicable law to comply with the lien notice or filing deadlines.

§ 15.3 Mediation

§ 15.3.1 Claims, disputes, or other matters in controversy arising out of or related to the Contract, except those waived as provided for in Sections 9.10.4, 9.10.5, and 15.1.7, shall be subject to mediation as a condition precedent to binding dispute resolution.

§ 15.3.2 The parties shall endeavor to resolve their Claims by mediation which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Mediation Procedures in effect on the date of the Agreement. A request for mediation shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the mediation. The request may be made concurrently with the filing of binding dispute resolution proceedings but, in such event, mediation shall proceed in advance of binding dispute resolution proceedings, which shall be stayed pending mediation for a period of 60 days from the date of filing, unless stayed for a longer period by agreement of the parties or court order. If an arbitration is stayed pursuant to this Section 15.3.2, the parties may nonetheless proceed to the selection of the arbitrator(s) and agree upon a schedule for later proceedings.

§ 15.3.3 Either party may, within 30 days from the date that mediation has been concluded without resolution of the dispute or 60 days after mediation has been demanded without resolution of the dispute, demand in writing that the other party file for binding dispute resolution. If such a demand is made and the party receiving the demand fails to

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file for binding dispute resolution within 60 days after receipt thereof, then both parties waive their rights to binding dispute resolution proceedings with respect to the initial decision.

§ 15.3.4 The parties shall share the mediator's fee and any filing fees equally. The mediation shall be held in the place where the Project is located, unless another location is mutually agreed upon. Agreements reached in mediation shall be enforceable as settlement agreements in any court having jurisdiction thereof.

§ 15.4 Arbitration

§ 15.4.1 If the parties have selected arbitration as the method for binding dispute resolution in the Agreement, any Claim subject to, but not resolved by, mediation shall be subject to arbitration which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Arbitration Rules in effect on the date of the Agreement. The Arbitration shall be conducted in the place where the Project is located, unless another location is mutually agreed upon. A demand for arbitration shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the arbitration. The party filing a notice of demand for arbitration must assert in the demand all Claims then known to that party on which arbitration is permitted to be demanded.

§ 15.4.1.1 A demand for arbitration shall be made no earlier than concurrently with the filing of a request for mediation, but in no event shall it be made after the date when the institution of legal or equitable proceedings based on the Claim would be barred by the applicable statute of limitations. For statute of limitations purposes, receipt of a written demand for arbitration by the person or entity administering the arbitration shall constitute the institution of legal or equitable proceedings based on the Claim.

§ 15.4.2 The award rendered by the arbitrator or arbitrators shall be final, and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction thereof.

§ 15.4.3 The foregoing agreement to arbitrate and other agreements to arbitrate with an additional person or entity duly consented to by parties to the Agreement, shall be specifically enforceable under applicable law in any court having jurisdiction thereof.

§ 15.4.4 Consolidation or Joinder

§ 15.4.4.1 Subject to the rules of the American Arbitration Association or other applicable arbitration rules, either party may consolidate an arbitration conducted under this Agreement with any other arbitration to which it is a party provided that (1) the arbitration agreement governing the other arbitration permits consolidation, (2) the arbitrations to be consolidated substantially involve common questions of law or fact, and (3) the arbitrations employ materially similar procedural rules and methods for selecting arbitrator(s).

§ 15.4.4.2 Subject to the rules of the American Arbitration Association or other applicable arbitration rules, either party may include by joinder persons or entities substantially involved in a common question of law or fact whose presence is required if complete relief is to be accorded in arbitration, provided that the party sought to be joined consents in writing to such joinder. Consent to arbitration involving an additional person or entity shall not constitute consent to arbitration of any claim, dispute or other matter in question not described in the written consent.

§ 15.4.4.3 The Owner and Contractor grant to any person or entity made a party to an arbitration conducted under this Section 15.4, whether by joinder or consolidation, the same rights of joinder and consolidation as those of the Owner and Contractor under this Agreement.

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SECTION 00 52 03
EXHIBIT A, INSURANCE AND BONDS

PART 1 CONTRACTOR INSURANCE REQUIREMENTS

These provisions apply to all contractors who will be on the jobsite, whether a general contractor or subcontractor.

Contractor shall, at its expense, procure and maintain at a minimum for the duration of the Project and through the correction period stated in the agreement, except as otherwise set forth herein, the types and amounts of the insurance described below or as otherwise required by law on all of its operations, in companies registered to do business in the State of Missouri and having an A.M. Best Rating of A, V or higher:

A. WORKER'S COMPENSATION AND EMPLOYER'S LIABILITY

Contractor shall carry Workers' Compensation Insurance as required by any applicable law or regulation. Employers Liability Insurance shall be in amounts no less than $1,000,000 each accident for bodily injury, $1,000,000 for bodily injury by disease and $1,000,000 each employee for bodily injury by disease. If there is an exposure of injury to Contractor's employees under the U.S. Longshoremen's and Harbor Works Compensation act, the Jones Act or under laws, regulations or statutes applicable to maritime employees, coverage shall be included for such injuries or claims. If the contractor's Employers Liability limits are below those stated above an umbrella liability policy may be used to the requested limit.

All personnel on Owner's jobsite must be covered under a Workers Compensation policy within the statutory limits as provided under the laws of the state in which the work is performed. If subcontractor is a sole proprietor and has no other employees, subcontractor must still purchase a Workers' Compensation Policy. When subcontractor purchases Workers' Compensation Insurance, the certificate must indicate whether coverage has been waived for Officers, Partners, Shareholders, LLC Members and/or Sole Proprietors.

B. COMMERCIAL GENERAL LIABILITY INSURANCE

Contractor shall carry Commercial General Liability Insurance written on ISO occurrence form CG 00 01 07 98 or later edition (or a substitute form providing equivalent coverage) and shall cover all operations by or on behalf of the Contractor, providing insurance for bodily injury liability and property damage liability for the limits indicated below and for the following coverage:

(1) Premises and Operations
(2) Products and Completed Operations
(3) Contractual Liability insuring the obligations assumed by the Contractor under this contract.
(4) Personal Injury Liability and Advertising Injury Liability

Except with respect to bodily injury and property damage included within the products and completed operations hazards, the general aggregate limit shall apply separately to the Contractor's project under this Contract. Completed Operations coverage must be maintained for the correction period provided in the agreement.

Limit of Liability

The Commercial General Liability policy limits shall not be less than:

$1,000,000 Each Occurrence (Combined Single Limit for Bodily Injury and Property Damage)
$2,000,000 Aggregate for Products/Completed Operations
$1,000,000 Personal Injury/Advertising Injury
$2,000,000 General Aggregate (provide endorsement to apply the General Aggregate per project, if available. If not, see Umbrella Liability section)

Additional Insured

The Owner, all of its officers, directors and employees ("The Meramec Ambulance District"), and the Owner's Representative shall be named as Additional Insured under the Commercial General Liability Insurance using ISO Additional Insured Endorsements CG 20 10 or substitute providing equivalent coverage. If additional insured status is required for a correction period then CG 20 37 or equivalent should also be used . These endorsements must be stated on the insurance certificate provided to the Owner and a copy of the endorsements confirming coverage should accompany the insurance certificate.

Primary Coverage

The Contractor's Commercial General Liability Policy shall apply as primary insurance and any other insurance carried by the Architect or the Owner shall be excess only and will not contribute with Contractor's insurance. This must be stated on the insurance certificate and a copy of the endorsement confirming coverage should accompany the insurance certificate.

C. BUSINESS AUTOMOBILE LIABILITY INSURANCE

The policy should be written on ISO form CA 0001, CA 0005, CA 0002, CA 0020 or a substitute form providing equivalent coverage and shall provide coverage for all owned, hired and non-owned vehicles. The limit of liability should be at least $1,000,000 Combined Single Limit for Bodily Injury and Property Damage each accident and should also cover Automobile Contractual Liability. The policy should name the Owner and all of its officers, directors and employees and the Owner's Representative as Additional Insureds. The policy shall be endorsed to be primary coverage and any other insurance carried by the Owner shall be excess only and will not contribute with Contractor's insurance. To confirm coverage, a copy of the Additional Insured Endorsement and the Primary Insurance Endorsement should accompany the insurance certificate.

D. UMBRELLA EXCESS LIABILITY

The contractor should provide an excess liability policy that will provide a minimum of $4,000,000 per occurrence/$4,000,000 aggregate over the above listed coverages. This policy should "follow-form" of the underlying policies and comply with all insurance requirements of those policies.

E. PROFESSIONAL LIABILITY

Contractor shall maintain Project Specific Professional Liability insurance, including contractual liability insurance against the liability assumed by Contractor in contractually agreeing to perform design services, and including coverage for any professional liability caused by any of the Contractor's consultants. Contractor shall maintain at least the limits of liability in a company satisfactory to the Owner as follows: $2,000,000 Each Claim / Aggregate. The Professional Liability Insurance shall contain prior acts coverage sufficient to cover all contract services rendered by the Contractor. Said insurance shall be continued in effect with an extended period of five years following final payment to Contractor. Such insurance may be maintained on a claims made basis. Contractor shall provide Owner with a certificate of insurance evidencing such coverage, and such other proof of such insurance as the Owner may reasonably request.

Contractor must include Professional Liability and Errors and Omissions insurance for the delegated design scopes of work that are required by specifications to be designed by a professional engineer. Drawings and calculations shall be signed and sealed by a professional engineer registered in the State of Missouri.

F. BUILDERS RISK INSURANCE

Contractor shall, at its own expense, procure and maintain Builders Risk Insurance in a form acceptable to the Owner for the full replacement value of the Work, including labor, materials, and equipment to be incorporated therein, from the date of commencement through final completion and acceptance by the Owner, including subsequent contract modifications, change orders, and cost of materials supplied or installed by others. Builders Risk Insurance shall cover all permanent and temporary structures, materials, supplies, and equipment intended for incorporation into the Project, whether on-site, in transit, or stored off-site, provided such property is designated for the Project.

Coverage shall be written on an "all-risk" or "special form" basis, including but not limited to loss or damage caused by fire, theft, vandalism, explosion, windstorm, hail, lightning, collapse, and water damage, except as otherwise excluded by the policy.

The Builders Risk policy shall include a waiver of subrogation in favor of the Owner and its officers, directors, and employees and the Owner's Representative.

Any deductibles under the Builders Risk policy shall be the responsibility of the Contractor unless otherwise agreed in writing by the Owner.

G. CONTRACTOR'S ENVIRONMENTAL (POLLUTION LIABILITY)

For Contracts where appropriate for the nature of the service provided, the Contractor shall maintain in force for the full period of the Contract, pollution liability insurance coverage in the minimum amount set forth below for losses caused by sudden and accidental pollution conditions that arise from the operations of the Contractor. Such insurance shall apply to bodily injury and property damage, including loss of use of the damaged property or property that has not been physically injured, and shall cover cleanup, transportation, disposal, remediation and defense costs, including all expenses incurred in the investigation, defense, payment or settlement of claims.

Limits:

$ 2,000,000 Per Occurrence
$ 2,000,000 Aggregate

The insurance coverage shall be retroactive to the earlier of the date of this Contract or the commencement of the Contractor's work on the Project, and Contractor shall cause the same to remain in effect for a period of at least five (5) years after final acceptance of the Project by the Owner or such other period as may be set forth in the Contract or in the Project Specifications.

The policy should name the Owner and all of its officers, directors and employees, Owner's Representative, and the Architect, as Additional Insureds. The policy shall be endorsed to be primary coverage and any other insurance carried by the Owner shall be excess only and will not contribute with Contractor's insurance. To confirm coverage, a copy of the Additional Insured Endorsement and the Primary Insurance Endorsement should accompany the insurance certificate.

H. WAIVER OF SUBROGATION

The Commercial General Liability, Automobile Liability and Umbrella Excess Liability policies shall each contain a waiver of subrogation in favor of the Owner and its officers, directors, and employees and the Owner's Representative.

I. CERTIFICATE OF INSURANCE

Prior to commencing work on behalf of Owner, Contractor and each Subcontractor shall obtain and pay for the insurance coverages identified herein, until completion and final acceptance of work for a period of ten years from the date of completion of the work. As evidence of the insurance, limits and endorsements required, a standard ACORD or equivalent Certificate of Insurance executed by a duly authorized representative of each insurer shall be furnished by the Contractor to the Owner, the Owner's Representative and the Architect before any Work under the Contract is commenced by the Contractor. Owner shall have the right, but not the obligations, to prohibit Contractor or any Subcontractor from entering the Project site until such certificates are received and approved by the Owner. With respect to insurance to be maintained after final payment, an additional certificate(s) evidencing such coverage shall be promptly provided to Owner as a precondition to final payment. The Certificate of Insurance shall provide that there will be no cancellation or deduction of coverage without 30 days prior written notice to the Owners. Failure to maintain the insurance required herein may result in termination of the Contract at Owner's option. In the event the Contractor does not comply with the requirements of this section, the Owner shall have the right, but not the obligation, provide insurance coverage to protect the Owner and Architect, and charge the Contractor for the cost of that Insurance. The required insurance shall be subject to the approval of the Architect, but any acceptance of insurance certificates by the Architect or Owner shall in no way limit or relieve the Contractor of their duties and responsibilities in this Agreement.

J. COPIES OF POLICIES

Contractor shall furnish a certified copy of any and all insurance policies required under this Contract within ten (10) days of Owner's written request for said policies.

K. SUBCONTRACTORS

Contractor shall cause each Subcontractor to purchase and maintain insurance of the types and amounts specified herein. Limits of such coverage may be reduced only upon written agreement of Owner. Contractor shall provide to Owner copies of certificates evidencing coverage for each Subcontractor. Subcontractors' commercial general liability and business automobile liability insurance shall name Owner, Owner's Representative and Architect as Additional Insureds and have the Waiver of Subrogation endorsement added.

L. OTHER INSURANCE

Owner may require insurance coverage in excess of the types and amounts required above. Contractor shall attempt in good faith to obtain quotes for such additional coverage and provide them Owner for review. Contractor shall purchase any such additional insurance as may be requested by the Owner in writing. Owner shall pay any additional premium for such additional coverage.

PART 2 CONTRACTOR BOND REQUIREMENTS

A. BID SECURITY

Each bid must be accompanied by a bid security in the form of a cashier's check, certified check, Bid Bond, or negotiable U.S. Government bond executed by the bidder and an approved surety company payable to Meramec Ambulance District, in the amount not less than five percent (5%) of the sum total of the base bid. Bidder shall scan a copy of the bid security to submit via email and mail the bid security to the Owner via certified mail. The bid security shall be held for a period of ninety (90) days or until a contract is awarded, whichever is longer. The Bid Security will become the Owner's property in the event that the successful bidder fails, within five (5) business days after receipt of the Contract for the amount of the bid, to execute the Contract and deliver the payment and performance bonds within ten (10) business days after the contract award.

B. PERFORMANCE BOND AND PAYMENT BOND

The Contractor shall furnish a Performance Bond and a Labor and Materials Payment Bond AIA Document A312, or similar, with surety approved by the Owner and on forms approved by the Owner within ten (10) business days after the contract award. Each bond shall be in the full amount of the parties' contract and shall be conditioned upon the full and faithful performance of all major terms and conditions of the contract and the payment of all labor and material suppliers. If at any time after the execution of a contract and the surety bonds the Owner shall deem any bond surety to be unsatisfactory, or if for any reason, a bond ceases to be adequate to cover the performance of the Work or the payment of labor and materials, the Contractor shall, at its expense and within five (5) days after the receipt of notice from the Owner to do so, furnish an additional bond or bonds, in such form and amount and with such surety or sureties as shall be satisfactory to the Owner. In such event no further payment to the Contractor shall be deemed to be due under this contract until such new or additional security for the faithful performance of the Work and the payment of labor and material suppliers shall be furnished in a manner and form satisfactory to the Owner. The corporate surety on any performance or payment bond must be licensed by the State of Missouri

and must be listed in United States Treasury Circular 570, and the bonds shall be accompanied by current powers of attorney, on a form acceptable to the Owner.

END OF SECTION

SECTION 01 10 00
SUMMARY

PART 1 GENERAL

1.01 PROJECT

A. Project Name: 25083 Meramec Ambulance District Stations 1 & 3

B. Owner's Name: Meramec Ambulance District.

C. Owner's Representative: Navigate Building Solutions.

D. Architect's Name: Archimages, Inc..

E. The project consists of remodeling/renovation of two existing ambulance distritct stations
   1. Refer to Section 00 01 01 Invitation to Bid for further description of the scope of each project.

F. Proposed project site addresses:
   1. Station 1: 429 E. Osage Street, Pacific, MO 63069.
   2. Station 3: 7390 State Hwy O, Robertsville, MO 63072

1.02 DESCRIPTION OF ALTERATIONS WORK

A. Scope of demolition and removal work is indicated on drawings and specified in Section 02 41 00.

B. Scope of alterations work is indicated on drawings.

C. Plumbing: Alter existing system and add new construction, keeping existing in operation.

D. HVAC: Alter existing system and add new construction, keeping existing in operation.

E. Electrical Power and Lighting: Alter existing system and add new construction, keeping existing in operation.

F. Fire Suppression Sprinklers: Alter existing system and add new construction, keeping existing in operation.

G. Fire Alarm: Alter existing system and add new construction, keeping existing in operation.

H. Telephone: Alter existing system and add new construction, keeping existing in operation.

I. Security System: Alter existing system and add new construction, keeping existing in operation.

1.03 WORK BY OWNER

1.04 OWNER OCCUPANCY

A. Owner intends to continue to occupy portions of the existing building during the entire construction period.

B. Owner intends to occupy the Project upon Substantial Completion.

C. Schedule the Work to accommodate Owner occupancy.

1.05 CONTRACTOR USE OF SITE

A. Construction Operations: Limited to areas noted on Drawings.

B. Arrange use of site and premises to allow:
   1. Owner occupancy.

C. Provide access to and from site as required by law and by Owner:
   1. Emergency Building Exits During Construction: Keep all exits required by code open during construction period; provide temporary exit signs if exit routes are temporarily altered.
   2. Do not obstruct roadways, sidewalks, or other public ways without permit.

D. Utility Outages and Shutdown:
   1. Prevent accidental disruption of utility services to other facilities.

1.06 WORK SEQUENCE

A. Entire Project Scope of Work shall be implemented within (1) one individual Phase, as delineated within Drawings and Specifications.

B. Coordinate Construction Schedule including all Project Site operations with Owner's Representative and Architect, prior to commencement of said Work.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 01 20 00
PRICE AND PAYMENT PROCEDURES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Procedures for preparation and submittal of applications for progress payments.

B. Documentation of changes in Contract Sum and Contract Time.

C. Change procedures.

D. Correlation of Contractor submittals based on changes.

E. Procedures for preparation and submittal of application for final payment.

1.02 RELATED REQUIREMENTS

A. Section 00 50 00 - Contracting Forms and Supplements: Forms to be used.

B. Section 00 52 00 - Agreement Form: Contract Sum, retainages, payment period, monetary values of unit prices.

C. Section 00 52 01 - General Conditions: Additional requirements for progress payments, final payment, changes in the Work.

D. Section 00 73 00 - Supplementary Conditions: Percentage allowances for Contractor's overhead and profit.

E. Section 01 20 01 Change Order Calculations: Procedures for calculating Change Order cost.

F. Section 01 22 00 - Unit Prices: Monetary values of unit prices; Payment and modification procedures relating to unit prices.

1.03 SCHEDULE OF VALUES

A. Use Schedule of Values Form: AIA G703, edition stipulated in the Agreement.

B. Electronic media printout including equivalent information will be considered in lieu of standard form specified; submit draft to Architect for approval.

C. Forms filled out by hand will not be accepted.

D. Submit Schedule of Values in PDF format within 15 days after date of Owner-Contractor Agreement.

E. Revise schedule to list approved Change Orders, with each Application For Payment.

1.04 APPLICATIONS FOR PROGRESS PAYMENTS

A. Payment Period: Submit at intervals stipulated in the Agreement.

B. Use Form AIA G702 and Form AIA G703, edition stipulated in the Agreement.

C. Electronic media printout including equivalent information will be considered in lieu of standard form specified; submit sample to Architect for approval.

D. Forms filled out by hand will not be accepted.

E. Execute certification by signature of authorized officer.

F. Use data from approved Schedule of Values. Provide dollar value in each column for each line item for portion of work performed and for stored products.

G. List each authorized Change Order as a separate line item, listing Change Order number and dollar amount as for an original item of work.

H. Submit each Application for Payment in PDF format.

I. Include the following with the application:
   1. Transmittal letter as specified for submittals in Section 01 30 00.
   2. Construction progress schedule, revised and current as specified in Section 01 30 00.
   3. Partial release of liens from major subcontractors and vendors.

4. Lien waivers.
5. Affidavits attesting to off-site stored products.
    a. See AIA A101-2017 Section 5.1.6.1 for stored material requirements.

J. When Architect requires substantiating information, submit data justifying dollar amounts in question. Provide one copy of data with cover letter for each copy of submittal. Show application number and date, and line item by number and description.

1.05 MODIFICATION PROCEDURES

A. Refer to Section 01 20 01 Change Order Calculations for procedures related to Change Order cost.

B. Submit name of the individual authorized to receive change documents and who will be responsible for informing others in Contractor's employ or subcontractors of changes to Contract Documents.

C. For minor changes not involving an adjustment to the Contract Sum or Contract Time, Architect will issue instructions directly to Contractor.

D. For other required changes, Architect will issue a document signed by Owner instructing Contractor to proceed with the change, for subsequent inclusion in a Change Order.
1. The document will describe the required changes and will designate method of determining any change in Contract Sum or Contract Time.
2. Promptly execute the change.

E. For changes for which advance pricing is desired, Architect will issue a document that includes a detailed description of a proposed change with supplementary or revised drawings and specifications, a change in Contract Time for executing the change with a stipulation of any overtime work required and the period of time during which the requested price will be considered valid. Contractor shall prepare and submit a fixed price quotation within 10 days.

F. Contractor may propose a change by submitting a request for change to Architect, describing the proposed change and its full effect on the work, with a statement describing the reason for the change, and the effect on the Contract Sum and Contract Time with full documentation.

G. Computation of Change in Contract Amount: As specified in the Agreement and Conditions of the Contract.
1. For change requested by Architect for work falling under a fixed price contract, the amount will be based on Contractor's price quotation.
2. For change requested by Contractor, the amount will be based on the Contractor's request for a Change Order as approved by Architect.
3. For pre-determined unit prices and quantities, the amount will based on the fixed unit prices.
4. For change ordered by Architect without a quotation from Contractor, the amount will be determined by Architect based on the Contractor's substantiation of costs as specified for Time and Material work.

H. Substantiation of Costs: Provide full information required for evaluation.
1. Provide the following data:
    a. Quantities of products, labor, and equipment.
    b. Taxes, insurance, and bonds.
    c. Overhead and profit.
    d. Justification for any change in Contract Time.
    e. Credit for deletions from Contract, similarly documented.
2. Support each claim for additional costs with additional information:
    a. Origin and date of claim.
    b. Dates and times work was performed, and by whom.
    c. Time records and wage rates paid.
    d. Invoices and receipts for products, equipment, and subcontracts, similarly documented.

3. For Time and Material work, submit itemized account and supporting data after completion of change, including extra work tickets signed by the Contractor's superintendent within time limits indicated in the Conditions of the Contract.

I. Execution of Change Orders: Architect will issue Change Orders for signatures of parties as provided in the Conditions of the Contract.

J. After execution of Change Order, promptly revise Schedule of Values and Application for Payment forms to record each authorized Change Order as a separate line item and adjust the Contract Sum.

K. Promptly revise progress schedules to reflect any change in Contract Time, revise sub-schedules to adjust times for other items of work affected by the change, and resubmit.

L. Promptly enter changes in Project Record Documents.

1.06 APPLICATION FOR FINAL PAYMENT

A. Prepare Application for Final Payment as specified for progress payments, identifying total adjusted Contract Sum, previous payments, and sum remaining due.

B. Application for Final Payment will not be considered until the following have been accomplished:
   1. All closeout procedures specified in Section 01 70 00 and Document A201, General Conditions, Section 5.2.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

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SECTION 01 20 01
CHANGE ORDER CALCULATIONS

The maximum that will be allowed for overhead and profit on changes in work shall be as follows, expressed as a percentage of the basic cost of the change. The allowable percentages for profit or overhead may be less, depending on the nature, extent or complexity of the change, where the percentage is not commensurate with the responsibility and administration involved (such as the Contractor merely processing substantial Change Order to a Subcontractor) but in no event shall they exceed the following:

To the Contractor and/or its Subcontractor for work performed with their own forces 14%
To the Contractor for work performed by other than its own forces 6%
To the Subcontractor/Supplier for work performed with their own forces 14%
To the Subcontractor/Supplier for work performed by other than its own forces 6%

Not more than above specified percentages for overhead, bond, insurance, profit, and commission will be allowed to be added to the basic cost, regardless of the number of tiers of Contractors, Subcontractors or Sub-subcontractors.

The burden on labor may be indicated as a dollar/cents addition to the hourly rate or may be expressed as a percentage of the extended hourly rate costs. If required by the Owner, the Contractor shall provide a detailed breakdown to justify the labor burden. The Owner reserves the right to reject any labor burden which is inconsistent with other similar contractors or where the cost of fringe benefits are in excess of established labor agreements.

Material, equipment, and supply costs shall be quoted at the actual cost to the Contractor, or Subcontractor. Upon request, the Contractor (or Subcontractor) shall submit evidence to substantiate the costs. Said costs shall be quoted at trade discount prices, with quantity discounts also applied where the quantities warrant. In any proposal with material, equipment and supply credit, the credit shall be based on the actual Contract cost of the material (including trade and quantity discounts) less any charges actually incurred for handling or returning a material which has been delivered.

The percentages allowed for overhead and profit herein shall be deemed to include, and no further addition allowed the Contractor, Subcontractor or Sub-subcontractors for: (1) field and office supervision and administration, including the field superintendent and non-working foremen; (2) general insurance; (3) use or replacement of tools; (4) shop burden; (5) engineering costs; (6) performance (guaranty) and labor/material payment bonds; (7) cost of safety measure (including those imposed by OSHA); (8) permits, unless a new permit type is required; (9) warranty work.

Cost changes shall be computed by determining the basic costs enumerated below (as further specified under this Subparagraph), to which the overhead may be added, then the profit figure may be added, and finally adding the sales tax on materials if allowable.

For changes in the Work, the cost shall be determined as provided under this section. The Contractor shall submit an itemized list of quantities with the applicable unit costs and extended price for each, in such form and detail as required by the Owner. As a minimum, the detailed breakdown shall include and indicate the items enumerated below. Items (a) and (b) constitute the cost of labor, and items (a), (b), (c) and (d) constitute the basic costs referred to under this section.

a) Labor costs, itemized by each trade involved, showing the hourly rates for each, and the hours required for the change. Labor rates shall be the same for extra and credit computations and shall be the actual rate paid the workmen in accordance with established management labor agreements.

b) Burden on labor, which shall be only the actual costs of mandatory fringe benefits required by established agreements, taxes on labor, worker's or workmen's compensation, insurance on labor as affected by payroll, unemployment taxes and insurance, including FICA and FUTA. No other costs will be allowed as burden on labor.

c) Quantities of materials, equipment, and supplies, at their actual costs, with unit costs indicated.

d) The cost of subcontracted work computed in the same way as provided for under this section.

e) Overhead, profit and commission as set forth herein.

f) Applicable sales tax on materials, added after the above computations are complete.

Subcontractors (or Sub-subcontractors) shall compute their costs in the same way and are subject to the same conditions of what may be included in the cost and the same maximum percentages for overhead and profit. To the Subcontractor's price, the Contractor may add up to a maximum of six percent (6%). For changes involving work of the Contractor with its own forces and work by a Subcontractor (or Sub-subcontractor), the commission shall be applied directly to the Subcontractor's price, with the overhead and profit figure applied only to the Work the Contractor performs with its own forces.

For changes involving both extra and credit amounts, the overhead and profit, or commission, shall be applied only to net difference where the extra exceeds the credit.

For changes resulting in a credit in the basic costs, a reasonable allowance for overhead, profit or commission may be required to be credited to the Owner, as approved by the Owner. In general, no credit for overhead, profit or commission will be required where the net change credit is minor or where the Change in Work indicates it is reasonable that no credit be allowed to the Owner due to the effort, cost or responsibility of the Contractor. In the event of substantial subcontract credits or for Work the Contractor does not provide or perform, a reasonable overhead, profit or commission credit shall be allowed to the Owner, as determined by the Owner.

If anytime, Contractor is directed to proceed in writing by the Owner or Owner’s Representative on a time and material basis for a change. The Contractor must notify Owner’s Representative when work is beginning, when it is complete and daily tickets must be submitted as backup documentation. Daily tickets to be signed daily and verified by the Contractor’s onsite superintendent and submitted daily to the Owner’s Representative. Any change order request submitted without these daily signed tickets will be rejected and will not be compensated.

No time extensions will be granted related to claims of adverse weather. No claims for extra costs will be granted related to adverse weather and/or taking action to deal with adverse weather and/or the effects of adverse weather.

Additional scope that is authorized to be completed on a T&M basis on behalf of the Owner, shall be documented as follows:

a) Contractor shall issue daily tickets identifying hours worked, classification of worker, materials used, internally or externally rented equipment, and subcontractors utilized.

b) The additional scope should be delineated from the base bid scope.

c) Hours worked shall be verified by the General Contractor’s Superintendent and/or Authorized Owner’s Representative and indicated by signature on daily work tickets.

d) There should be a separate ticket for each day that additional scope of work takes place.

e) Unit costs, material costs and rental rates will be evaluated accordingly to typical market value.

f) The contractor is responsible for expending costs with the Owner’s best interest in mind.

SECTION 01 23 00
ALTERNATES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Description of Alternates.

B. Procedures for pricing Alternates.

C. Documentation of changes to Contract Sum and Contract Time.

1.02 RELATED REQUIREMENTS

A. Document 00 21 13 - Instructions to Bidders: Instructions for preparation of pricing for Alternates.

B. Document 00 41 00 - Bid Form: List of Alternates

C. Document 00 52 00 - Agreement Form: Incorporating monetary value of accepted Alternates.

1.03 DEFINITIONS

A. Alternate: An amount proposed by bidders and stated within Bid Form for certain Work, as defined in the bidding requirements, that may be added to or deducted from the Base Bid amount, should Owner decide to accept a corresponding change, either in amount of construction to be completed, or in products, materials, equipment, systems, or installation methods described within the Contract Documents.

1. Alternates described in this Section shall form part of the Work, only if enumerated in the Agreement.
2. The cost or credit of each Alternate is the net addition to or deduction from the Contract Sum, as required to incorporate said Alternate into Work. No other adjustments shall be made to the Contract Sum.

1.04 PROCEDURES

A. Coordination: Revise, adjust, coordinate any and all affected subcontractor, supplier and trade Scopes of Work, required to completely integrate accepted Alternates into the Project.

1. Include as part of each Alternate, miscellaneous devices, accessory objects and all similar items incidental to, or required for, a complete installation, whether or not indicated as part of said Alternate.

B. Notification: Immediately following Award of the Contract, notify each party involved, in writing, of the status of each Alternate. Indicate if Alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated Revisions to Alternates.

C. Execute accepted Alternates under same conditions as all other Work of Contract.

D. Unless otherwise directed, complete all Work described within Alternates, with no increase in Contract Time.

E. This section includes non-technical descriptions of Alternates. Reference specific sections of Specifications and Drawings for technical descriptions of Alternates.

F. Owner reserves right to award none, any one or more in any order, or all Alternates in combination with Work covered by Base Bid.

G. Owner reserves right to determine low bid as Base Bid alone, or sum of Base Bid and any combination of Alternates.

H. Each Alternate shall include all Work required for a complete and finished Scope of Work.

I. Alternates are additive or deductive to the Base Bid. Provide costs in appropriate spaces delineated within Bid Form.

J. Submit Bids for Base Bid and all Alternates listed within Bid Form. Failure to quote an amount, or insertion of the words "no bid," "none" or words with a similar meaning, shall be considered as not completing the proposal and may constitute disqualification of entire Bid, upon Owner's

discretion. When there is no change in Base Bid, due to using an Alternate, insert the words "No Change". The words "No Change" shall be interpreted to mean that said Work described within the Alternate, shall be completed at no adjustment or change in cost to Base Bid.

K. Base Bid and Alternates are exclusive within their Scope of Work. There is no overlap between or among Base Bid and Alternates. The cost of any item of Work shall be included only once, within Base Bid or Alternates.

L. Schedule: A schedule of Alternates is included at the end of this Section. Specification Sections referenced within schedule contain requirements for materials necessary to achieve said Work delineated within each Alternate.

1.05 ACCEPTANCE OF ALTERNATES

A. Alternates quoted on Bid Forms will be reviewed and accepted or rejected at Owner's option. Accepted Alternates will be identified in the Owner-Contractor Agreement.

B. Coordinate related work and modify surrounding work to integrate the Work of each Alternate.

C. Contractor is required to hold their alternate pricing included in the Bid Form for six (6) months after the bid date, unless noted otherwise in the alternate description. Contractor shall notify the Owner, Architect, and Owner's Representative when decisions need to be made regarding the acceptance of bid alternates in order to maintain deliveries, installation, and the Master Project Schedule.

1.06 DEFINITIONS

A. Alternate: An amount proposed by Bidders and stated within Bid Form for certain Work, as defined in the Bidding Requirements, that may be added to or deducted from the Base Bid amount, should Owner decide to accept a corresponding change, either in amount of construction to be completed, or in products, materials, equipment, systems, or installation methods described within the Contract Documents.
   1. Alternates described in this Section shall form part of the Work, only if enumerated within said Agreement.
   2. The cost or credit of each Alternate is the net addition to or deduction from the Contract Sum, as required to incorporate said Alternate into Work. No other adjustments shall be made to the Contract Sum.

1.07 SCHEDULE OF ALTERNATES STATION 2:

A. Alternate No. 1, Resinous Epoxy Flooring, Both Stations:
   1. Base Bid: In Station 1 Rooms 101 Apparatus Bay and 103 CO2 Storage, and in Station 3 Rooms 119 Apparatus Bay and 121 CO2 Storage, provide all Work to prepare and install epoxy resin flooring and integral canted cove base as indicated on drawings and in specifications.
   2. Alternate Bid: In Station 1 Rooms 101 Apparatus Bay, 103 CO2 Storage, and 112 Decon, and in Station 3 Rooms 112 Decon, 118 Decon Toilet, 119 Apparatus Bay and 121 CO2 Storage, delete all Work to prepare and install epoxy resin flooring and integral canted cove base. In lieu of the preparation and installation of epoxy resin flooring in the previously enumerated rooms, provide provide cleaning to remove all existing finishes and and residues per Section 03 01 00. Once the floors are clean provide liquified densifier and sealer per Section 03 35 11 Concrete Floor Finishes.

B. Alternate No. 2, Wood Doors, Both Stations:
   1. Base Bid: Provide all Work related to all new wood doors and hardware in both stations.
   2. Alternate Bid: Delete the cost of all work related to new doors and hardware on the following doors: Work on the door frames that are associated with these doors will remain in the base bid.
      a. Station 1: Door numbers LIST OF DOOR NUMBERS TO BE PROVIDED BY ADDENDUM.
      b. Station 3: Door numbers LIST OF DOOR NUMBERS TO BE PROVIDED BY ADDENDUM.

C. Alternate No. 3, Apparatus Bay Finishes, Both Stations:
   1. Base Bid: Provide new wall and ceiling finishes as indicated on the drawings.
   2. Alternate Bid: Deduct all costs for Work related to wall finishes in Station 1 rooms 101 Apparatus Bay and 103 CO2 Storage, and in Station 3 Rooms 119 Apparatus Bay and 121 CO2 Storage.

D. Alternate No. 4, Concrete Paving:
   1. Base Bid: Provide all work related to replacing paving at both stations with new concrete paving.
   2. Alternate Bid: Deduct the cost of all work related to replacing paving.

E. Alternate No. 5, Station 3 Siding:
   1. Base Bid: Provide all Work to replace siding as indicated on the drawings.
   2. Alternate Bid: Deduct all work to replace the exterior siding at Station 3. In lieu of new siding on Station 3, power wash the existing siding.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

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SECTION 01 25 00
SUBSTITUTION PROCEDURES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Procedural requirements for proposed substitutions.

1.02 DEFINITIONS

A. Substitutions: Changes from Contract Documents requirements proposed by Contractor to materials, products, assemblies, and equipment.
   1. Substitutions for Cause: Proposed due to changed Project circumstances beyond Contractor's control.
   2. Substitutions for Convenience: Proposed due to possibility of offering substantial advantage to the Project.

1.03 REFERENCE STANDARDS

A. CSI/CSC Form 1.5C - Substitution Request (During the Bidding/Negotiating Stage); Current Edition.

B. CSI/CSC Form 13.1A - Substitution Request (After the Bidding/Negotiating Phase); Current Edition.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 GENERAL REQUIREMENTS

A. A Substitution Request for products, assemblies, materials, and equipment constitutes a representation that the submitter:
   1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product, equipment, assembly, or system.
   2. Agrees to provide the same warranty for the substitution as for the specified product.
   3. Agrees to coordinate installation and make changes to other work that may be required for the work to be complete, with no additional cost to Owner.
   4. Waives claims for additional costs or time extension that may subsequently become apparent.
   5. Agrees to reimburse Owner and Architect for review or redesign services associated with re-approval by authorities.

B. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents. Burden of proof is on proposer.

C. Content: Include information necessary for tracking the status of each Substitution Request, and information necessary to provide an actionable response.
   1. No specific form is required. Contractor's Substitution Request documentation must include the following:
      a. Project Information:
         1) Official project name and number, and any additional required identifiers established in Contract Documents.
      b. Substitution Request Information:
         1) Issue date.
         2) Reference to particular Contract Document(s) specification section number, title, and article/paragraph(s).
         3) Description of Substitution.
         4) Reason why the specified item cannot be provided.
         5) Differences between proposed substitution and specified item.
         6) Description of how proposed substitution affects other parts of work.

c. Attached Comparative Data: Provide point-by-point, side-by-side comparison addressing essential attributes specified, as appropriate and relevant for the item:
    1) Physical characteristics.
    2) In-service performance.
    3) Expected durability.
    4) Visual effect.
    5) Warranties.
    6) Other salient features and requirements.
d. Impact of Substitution:
    1) Savings to Owner for accepting substitution.
    2) Change to Contract Time due to accepting substitution.
    3) Any other impacts.

D. Limit each request to a single proposed substitution item.
    1. Submit an electronic document, combining the request form with supporting data into single document.

3.02 SUBSTITUTION PROCEDURES DURING PROCUREMENT

A. Submittal Time Restrictions:

3.03 SUBSTITUTION PROCEDURES DURING CONSTRUCTION

A. Submit request for Substitution for Cause within 14 days of discovery of need for substitution, but not later than 14 days prior to time required for review and approval by Architect, in order to stay on approved project schedule.

B. Submit request for Substitution for Convenience within 14 days of discovery of its potential advantage to the project, but not later than 14 days prior to time required for review and approval by Architect, in order to stay on approved project schedule.
    1. In addition to meeting general documentation requirements, document how the requested substitution benefits the Owner through cost savings, time savings, greater energy conservation, or in other specific ways.
    2. Document means of coordinating of substitution item with other portions of the work, including work by affected subcontractors.
    3. Bear the costs engendered by proposed substitution of:
        a. Owner's compensation to the Architect for any required redesign, time spent processing and evaluating the request.

C. Substitutions will not be considered under one or more of the following circumstances:
    1. When they are indicated or implied on shop drawing or product data submittals, without having received prior approval.
    2. Without a separate written request.

3.04 RESOLUTION

A. Architect may request additional information and documentation prior to rendering a decision. Provide this data in an expeditious manner.

B. Architect will notify Contractor in writing of decision to accept or reject request.

3.05 ACCEPTANCE

A. Accepted substitutions change the work of the Project. They will be documented and incorporated into work of the project by Change Order, Construction Change Directive, Architectural Supplementary Instructions, or similar instruments provided for in the Conditions of the Contract.

END OF SECTION

SECTION 01 30 00
ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. General administrative requirements.

B. Electronic document submittal service.

C. Preconstruction meeting.

D. Progress meetings.

E. Submittal schedule.

F. Construction progress schedule.

G. Contractor's daily reports.

H. Progress photographs.

I. Submittals for review, information, and project closeout.

J. Number of copies of submittals.

K. Requests for Interpretation (RFI) procedures.

L. Submittal procedures.

1.02 GENERAL ADMINISTRATIVE REQUIREMENTS

A. Comply with requirements of Section 01 70 00 - Execution and Closeout Requirements for coordination of execution of administrative tasks with timing of construction activities.

B. Make the following types of submittals to Architect:
   1. Buyout Log.
   2. Procurement Log.
   3. Requests for Interpretation (RFI).
   4. Requests for substitution.
   5. Shop drawings, product data, and samples.
   6. Test and inspection reports.
   7. Design data.
   8. Manufacturer's instructions and field reports.
   9. Applications for payment and change order requests.
   10. Progress schedules.
   11. Coordination drawings.
   12. Correction Punch List and Final Correction Punch List for Substantial Completion.
   13. Closeout submittals.

1.03 PROJECT COORDINATION

A. Owner's Representative: Navigate Building Solutions.
   1. Coordinate all Work with Owner's Representative

B. Cooperate with the Owner, Architect, and Owner's Representative in allocation of mobilization areas of site; for field offices and sheds, for delivery access, traffic, and parking facilities.

C. During construction, coordinate use of site and facilities through the Owner, Architect, and Owner's Representative.

D. Comply with Owner, Architect, and Owner's Representative procedures for intra-project communications; submittals, reports and records, schedules, coordination drawings, and recommendations; and resolution of ambiguities and conflicts.

E. Immediately upon award, the Contractor shall submit any proposed revisions to the Site Logistics Plan for review. The Owner, Architect, and Owner's Representative will meet with the Contractor to review and discuss site logistics and finalize an agreed upon plan of action for

construction parking, office and storage containers, temporary toilets, temporary site fence, street and sidewalk closures, etc.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 ELECTRONIC DOCUMENT SUBMITTAL SERVICE

A. All documents transmitted for purposes of administration of the contract are to be in electronic (PDF) format, as appropriate to the document, and transmitted via an Internet-based submittal service that receives, logs and stores documents, provides electronic stamping and signatures, and notifies addressees via email.
   1. Besides submittals for review, information, and closeout, this procedure applies to Requests for Interpretation (RFIs), progress documentation, contract modification documents (e.g. supplementary instructions, change proposals, change orders), applications for payment, field reports and meeting minutes, Contractor's correction punchlist, and any other document any participant wishes to make part of the project record.
   2. Contractor shall be the administrator and maintain all records in the program, and shall grant access to the Owner, Architect, and Owner's Representative.
   3. It is Contractor's responsibility to submit documents in allowable format.
   4. Subcontractors, suppliers, and Architect's consultants are to be permitted to use the service at no extra charge.
   5. Users of the service need an email address, internet access, and PDF review software that includes ability to mark up and apply electronic stamps (such as Adobe Acrobat, www.adobe.com, or Bluebeam PDF Revu, www.bluebeam.com), unless such software capability is provided by the service provider.
   6. Paper document transmittals will not be reviewed; emailed electronic documents will not be reviewed.
   7. All other specified submittal and document transmission procedures apply, except that electronic document requirements do not apply to samples or color selection charts.

B. Cost: The cost of the service is to be paid by Contractor; include the cost of the service in the Contract Sum.

C. Training: One, one-hour, web-based training session will be arranged for all participants, with representatives of Owner, Architect, Owner's Representative, and Contractor participating; further training is the responsibility of the user of the service.

D. At the completion of the project, the Contractor shall download and transmit to the Owner, Architect, and Owner's Representative all final submittals, RFI's, and meeting minutes from the software program.

3.02 SITE SPECIFIC SAFETY PLAN

A. Create and maintain a Site Specific Safety Plan which shall be kept in the jobsite office at all times. The Site Specific Safety Plan shall be submitted to the Owner and Owner's Representative prior to the start of work.

3.03 PRECONSTRUCTION MEETING

A. Owner's Representative will schedule a meeting after Notice of Award.

B. Attendance Required:
   1. Owner.
   2. Architect.
   3. Contractor.

C. Agenda:
   1. Execution of Owner-Contractor Agreement.
   2. Submission of executed bonds and insurance certificates.
   3. Distribution of Contract Documents.

4. Submission of list of subcontractors, list of products, schedule of values, and progress schedule.
5. Submission of initial Submittal schedule.
6. Designation of personnel representing the parties to Contract and Architect.
7. Procedures and processing of field decisions, submittals, substitutions, applications for payments, proposal request, Change Orders, and Contract closeout procedures.
8. Scheduling.
9. Scheduling activities of a Geotechnical Engineer.

D. Record minutes and distribute copies within two days after meeting to participants, with copies to Architect, Owner, participants, and those affected by decisions made.

3.04 PROGRESS MEETINGS

A. Schedule and administer meetings throughout progress of the work at maximum two-week intervals.

B. Make arrangements for meetings, prepare agenda with copies for participants, preside at meetings.

C. The work of the Contractor must be performed in accordance with decisions and schedules formulated at the Progress Meetings so as not to delay the work.

D. Attendance Required:
1. Contractor's Project Manager and Superintendent.
2. Owner.
3. Owner's Representative.
4. Architect.
5. Contractor's superintendent.
6. Major subcontractors.

E. Agenda:
1. Review minutes of previous meetings.
2. Review of work progress.
3. Field observations, problems, and decisions.
4. Identification of problems that impede, or will impede, planned progress.
5. Review of submittals schedule and status of submittals.
6. Review of RFIs log and status of responses.
7. Review of off-site fabrication and delivery schedules.
8. Maintenance of progress schedule.
9. Corrective measures to regain projected schedules.
10. Planned progress during succeeding work period.
11. Coordination of projected progress.
12. Maintenance of quality and work standards.
13. Effect of proposed changes on progress schedule and coordination.
14. Other business relating to work.

F. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and those affected by decisions made.

3.05 PRE-INSTALLATION MEETINGS

A. Schedule and administer pre-installation meetings for all major scopes of work with subcontractor, manufacturer, and affected subcontractors prior to commencement of those activities. Invite the Owner, Architect, and Owner's Representative to all pre-installation meetings. The Contractor shall record and distribute meeting minutes two days after meeting to participants, Owner, Architect, and Owner's Representative.

3.06 WEEKLY SUBCONTRACTOR MEETINGS

A. Schedule and administer weekly meetings throughout progress of the work with Contractor's Subcontractors.

B. Make arrangements for meetings, prepare agenda with copies for participants, preside at meetings. The Owner, Architect, and Owner's Representative shall be invited to these meetings.

C. Attendance Required:
   1. Contractor's Superintendent
   2. Subcontractor's actively performing work onsite.
   3. Subcontractor's scheduled to perform work within the next 3 weeks.

D. Contractor shall record and distribute meeting minutes two days after meeting to participants, Owner's Representative, and Architect.

3.07 CONSTRUCTION PROGRESS SCHEDULE

A. Within 14 days after date of the Agreement, submit preliminary schedule.

B. If preliminary schedule requires revision after review, submit revised schedule within 10 days.

C. Within 20 days after review of preliminary schedule, submit draft of proposed complete schedule for review.
   1. Include written certification that major Subcontractors have reviewed and accepted proposed schedule.

D. Within 10 days after joint review, submit complete schedule.

E. Submit updated schedule with each Application for Payment.

F. Contractor is required to provide and submit a detailed 3-Week Lookahead Schedule on a weekly basis. Contractor's detailed 3-Week Lookahead Schedule shall adhere to the Master Project Schedule and the accepted contractual project duration.

3.08 DAILY CONSTRUCTION REPORTS

A. Include only factual information. Do not include personal remarks or opinions regarding operations and/or personnel.

B. Prepare a daily construction report recording the following information concerning events at Project site and project progress:
   1. Date.
   2. High and low temperatures, and general weather conditions.
   3. List of subcontractors at Project site.
   4. Approximate count of personnel at Project site.
   5. Safety, environmental, or industrial relations incidents.
   6. Meetings and significant decisions.
   7. Unusual events (submit a separate special report).
   8. Stoppages, delays, shortages, and losses. Include comparison between scheduled work activities (in Contractor's most recently updated and published schedule) and actual activities. Explain differences, if any. Note days or periods when no work was in progress and explain the reasons why.
   9. Testing and/or inspections performed.
   10. Signature of Contractor's authorized representative.
   11. Contractor shall distribute completed Daily Construction Reports to the Architect and Owner's Representative within 24 hours of work performance utilizing an electronic application.

3.09 REQUESTS FOR INTERPRETATION (RFI)

A. Definition: A request seeking one of the following:
   1. An interpretation, amplification, or clarification of some requirement of Contract Documents arising from inability to determine from them the exact material, process, or system to be installed; or when the elements of construction are required to occupy the same space (interference); or when an item of work is described differently at more than one place in Contract Documents.
   2. A resolution to an issue which has arisen due to field conditions and affects design intent.

B. It is the Contractor's responsibility to proactively review the Contract Documents and submit RFIs to prevent delays to the Project Schedule.

C. Whenever possible, request clarifications at the next appropriate project progress meeting, with response entered into meeting minutes, rendering unnecessary the issuance of a formal RFI.

D. Preparation: Prepare an RFI immediately upon discovery of a need for interpretation of Contract Documents. Failure to submit a RFI in a timely manner is not a legitimate cause for claiming additional costs or delays in execution of the work.
   1. Prepare a separate RFI for each specific item.
      a. Review, coordinate, and comment on requests originating with subcontractors and/or materials suppliers.
   2. Do not forward requests which solely require internal coordination between subcontractors.
   3. Combine RFI and its attachments into a single electronic file in PDF format.

E. Reason for the RFI: Prior to initiation of an RFI, carefully study all Contract Documents to confirm that information sufficient for their interpretation is definitely not included.
   1. Include in each request Contractor's signature attesting to good faith effort to determine from Contract Documents information requiring interpretation.
   2. Unacceptable Uses for RFIs: Do not use RFIs to request the following::
      a. Approval of submittals (use procedures specified elsewhere in this section).
      b. Approval of substitutions (see Section - 01 60 00 - Product Requirements)
      c. Changes that entail change in Contract Time and Contract Sum (comply with provisions of the Conditions of the Contract).
   3. Improper RFIs: Requests not prepared in compliance with requirements of this section, and/or missing key information required to render an actionable response. They will be returned without a response, with an explanatory notation.
   4. Frivolous RFIs: Requests regarding information that is clearly indicated on, or reasonably inferable from, Contract Documents, with no additional input required to clarify the question. They will be returned without a response, with an explanatory notation.
      a. The Owner reserves the right to assess the Contractor for the costs (on time-and-materials basis) incurred by the Architect, and any of its consultants, due to processing of such RFIs.

F. Content: Include identifiers necessary for tracking the status of each RFI, and information necessary to provide an actionable response.
   1. Official Project name and number, and any additional required identifiers established in Contract Documents.
   2. Discrete and consecutive RFI number, and descriptive subject/title.
   3. Issue date, and requested reply date.
   4. Reference to particular Contract Document(s) requiring additional information/interpretation. Identify pertinent drawing and detail number and/or specification section number, title, and paragraph(s).
   5. Annotations: Field dimensions and/or description of conditions which have engendered the request.
   6. Contractor's suggested resolution: A written and/or a graphic solution, to scale, is required in cases where clarification of coordination issues is involved, for example; routing, clearances, and/or specific locations of work shown diagrammatically in Contract Documents. If applicable, state the likely impact of the suggested resolution on Contract Time or the Contract Sum.

G. Attachments: Include sketches, coordination drawings, descriptions, photos, submittals, and other information necessary to substantiate the reason for the request.

H. RFI Log: Prepare and maintain a tabular log of RFIs for the duration of the project.
   1. Indicate current status of every RFI. Update log promptly and on a regular basis.
   2. Note dates of when each request is made, and when a response is received.

3. Highlight items requiring priority or expedited response.
4. Highlight items for which a timely response has not been received to date.

I. Review Time: Architect will respond and return RFIs to Contractor within seven calendar days of receipt. For the purpose of establishing the start of the mandated response period, RFIs received after 12:00 noon will be considered as having been received on the following regular working day.
1. Response period may be shortened or lengthened for specific items, subject to mutual agreement, and recorded in a timely manner in progress meeting minutes.

J. Responses: Content of answered RFIs will not constitute in any manner a directive or authorization to perform extra work or delay the project. If in Contractor's belief it is likely to lead to a change to Contract Sum or Contract Time, promptly issue a notice to this effect, and follow up with an appropriate Change Order request to Owner.
1. Response may include a request for additional information, in which case the original RFI will be deemed as having been answered, and an amended one is to be issued forthwith. Identify the amended RFI with an R suffix to the original number.
2. Do not extend applicability of a response to specific item to encompass other similar conditions, unless specifically so noted in the response.
3. Upon receipt of a response, promptly review and distribute it to all affected parties, and update the RFI Log.
4. Notify Architect within seven calendar days if an additional or corrected response is required by submitting an amended version of the original RFI, identified as specified above.

3.10 SUBMITTAL SCHEDULE

A. Submit to Architect for review a schedule for submittals in tabular format.
1. Submit at the same time as the preliminary schedule.
2. Coordinate with Contractor's construction schedule and schedule of values.
3. Format schedule to allow tracking of status of submittals throughout duration of construction.
4. Arrange information to include scheduled date for initial submittal, specification number and title, submittal category (for review or for information), description of item of work covered, and role and name of subcontractor.
5. Account for time required for preparation, review, manufacturing, fabrication and delivery when establishing submittal delivery and review deadline dates.
a. For assemblies, equipment, systems comprised of multiple components and/or requiring detailed coordination with other work, allow for additional time to make corrections or revisions to initial submittals, and time for their review.

B. Submit to Architect a Procurement Log identifying long lead materials and equipment. Procurement Log must include date of order, date of confirmation or order, expected delivery date, actual delivery date, and comments noting changes to dates and reasons for change. The Procurement Log will be reviewed at the bi-weekly Progress Meetings.

C. Submit to Architect a Closeout Log for review. Once approved, this log will be used to track required closeout items prior to final payment.

3.11 SUBMITTALS FOR REVIEW

A. When the following are specified in individual sections, submit them for review:
1. Product data.
2. Shop drawings.
3. Samples for selection.
4. Samples for verification.

B. Submit to Architect for review for the limited purpose of checking for compliance with information given and the design concept expressed in Contract Documents.

C. Samples will be reviewed for aesthetic, color, or finish selection.

D. After review, provide copies and distribute in accordance with SUBMITTAL PROCEDURES article below and for record documents purposes described in Section 01 78 00 - Closeout Submittals.

3.12 SUBMITTALS FOR INFORMATION

A. When the following are specified in individual sections, submit them for information:
   1. Design data.
   2. Certificates.
   3. Test reports.
   4. Inspection reports.
   5. Manufacturer's instructions.
   6. Manufacturer's field reports.
   7. Manufacturer's warranties.
   8. Other types indicated.

B. Submit for Architect's knowledge as contract administrator or for Owner.

3.13 SUBMITTALS FOR PROJECT CLOSEOUT

A. Submit Correction Punch List for Substantial Completion.

B. Submit Final Correction Punch List for Substantial Completion.

C. When the following are specified in individual sections, submit them at project closeout in compliance with requirements of Section 01 78 00 - Closeout Submittals:
   1. Project record documents.
   2. Operation and maintenance data.
   3. Warranties.
   4. Bonds.
   5. Other types as indicated.

D. Submit for Owner's benefit during and after project completion.

E. Refer to AIA A201-2017 Section 9.10.2 for additional closeout requirements.

3.14 NUMBER OF COPIES OF SUBMITTALS

A. Electronic Documents: Submit one electronic copy in PDF format; an electronically-marked up file will be returned. Create PDFs at native size and right-side up; illegible files will be rejected.

B. Extra Copies at Project Closeout: See Section 01 78 00.

C. Samples: Submit the number specified in individual specification sections; one of which will be retained by Architect.
   1. After review, produce duplicates.
   2. Retained samples will not be returned to Contractor unless specifically so stated.

3.15 SUBMITTAL PROCEDURES

A. General Requirements:
   1. Sequentially identify each item. For revised submittals use original number and a sequential numerical suffix.
   2. Identify: Project; Contractor; subcontractor or supplier; pertinent drawing and detail number; and specification section number and article/paragraph, as appropriate on each copy.
   3. Apply Contractor's stamp, signed or initialed certifying that review, approval, verification of products required, field dimensions, adjacent construction work, and coordination of information is in accordance with the requirements of the work and Contract Documents.
      a. Submittals from sources other than the Contractor, or without Contractor's stamp will not be acknowledged, reviewed, or returned.
   4. Schedule submittals to expedite the Project, and coordinate submission of related items.
      a. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.

5. Identify variations from Contract Documents and product or system limitations that may be detrimental to successful performance of the completed work.
6. Provide space for Contractor and Architect review stamps.
7. When revised for resubmission, identify all changes made since previous submission.
8. Distribute reviewed submittals. Instruct parties to promptly report inability to comply with requirements.
9. Incomplete submittals will not be reviewed, unless they are partial submittals for distinct portion(s) of the work, and have received prior approval for their use.

B. Product Data Procedures:
1. Submit only information required by individual specification sections.
2. Collect required information into a single submittal.
3. Do not submit (Material) Safety Data Sheets for materials or products.

C. Shop Drawing Procedures:
1. Prepare accurate, drawn-to-scale, original shop drawing documentation by interpreting Contract Documents and coordinating related work.
2. Generic, non-project-specific information submitted as shop drawings do not meet the requirements for shop drawings.

D. Samples Procedures:
1. Transmit related items together as single package.
2. Identify each item to allow review for applicability in relation to shop drawings showing installation locations.

3.16 SUBMITTAL REVIEW

A. Submittals for Review: Architect will review each submittal, and approve, or take other appropriate action.

B. Submittals for Information: Architect will acknowledge receipt and review. See below for actions to be taken.

C. Architect's actions will be reflected by marking each returned submittal using virtual stamp on electronic submittals.
1. Notations may be made directly on submitted items and/or listed on appended Submittal Review cover sheet.

D. Architect's and consultants' actions on items submitted for review:
1. Authorizing purchasing, fabrication, delivery, and installation:
a. "Reviewed", or language with same legal meaning.
1) Submittal has been reviewed and found to be in general conformance with the design intent and specifications. Resubmittal is not required.
2) Note that the design team does not “approve” submittals.
3) The use of this term by construction management software, orally, or in corrections or comments made on submittals during this review do not relieve Contractor, subcontractor, or supplier from compliance with requirements of the drawings and specifications.
b. "Reviewed as Noted", or language with same legal meaning.
1) Submittal has been reviewed for general conformance with the design intent and specifications and found to require minor corrections. The required corrections are indicated on the returned submittal. Make the noted corrections. Resubmittal is not required.
2) Note that the design team does not “approve” submittals
3) The use of this term by construction management software, orally, or in corrections or comments made on submittals during this review do not relieve Contractor from compliance with requirements of the drawings and specifications.
2. Not Authorizing fabrication, delivery, and installation:

a. "Revise and Resubmit".
    1) Resubmit revised item, with review notations acknowledged and incorporated.
    2) Submittal is not found to follow the design intent, details, or specifications. Make the revisions indicated and resubmit to Architect for further review.
b. "Rejected".
    1) This indicates that the submittal is unacceptable, either because the submittal document does not comply with requirements, or the products or details of the submittal are unacceptable. A new submittal is required.
    2) Submit item complying with requirements of Contract Documents.

E. Architect's and consultants' actions on items submitted for information:
1. Items for which no action was taken:
    a. "Received" - to notify the Contractor that the submittal has been received for record only.
2. Items for which action was taken:
    a. "Reviewed" - no further action is required from Contractor.

END OF SECTION

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SECTION 01 32 16
CONSTRUCTION PROGRESS SCHEDULE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Construction progress schedule, bar chart type.

1.02 SUBMITTALS

A. Within 14 days after date of the Agreement, submit preliminary schedule defining planned operations for the first 60 days of work, with a general outline for remainder of work.

B. Within 20 days after review of preliminary schedule, submit draft of proposed complete schedule for review.

C. Within 10 days after joint review, submit complete schedule.

D. Submit updated schedule with each Application for Payment.

E. Submit a detailed 3-Week Lookahead Schedule on a weekly basis. Contractor's detailed 3-Week Lookahead Schedule shall adhere to the Master Project Schedule and the accepted contractual project duration.

F. Submit in PDF format.

1.03 SCHEDULE FORMAT

A. Listings: In chronological order according to the start date for each activity. Identify each activity with the applicable specification section number.

B. Scale and Spacing: To allow for notations and revisions.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 CONTENT

A. Show complete sequence of construction by activity, with dates for beginning and completion of each element of construction.

B. Identify each item by specification section number.

C. Coordinate content with schedule of values specified in Section 01 20 00 - Price and Payment Procedures.

D. Provide legend for symbols and abbreviations used.

3.02 BAR CHARTS

A. Include a separate bar for each major portion of Work or operation.

B. Identify the first work day of each week.

3.03 REVIEW AND EVALUATION OF SCHEDULE

A. Participate in joint review and evaluation of schedule with Architect and Owner's Representative at each submittal.

B. Evaluate project status to determine work behind schedule and work ahead of schedule.

C. After review, revise as necessary as result of review, and resubmit within 10 days.

3.04 UPDATING SCHEDULE

A. Provide updated Construction Progress Schedules each month with the application for payment.

B. Maintain schedules to record actual start and finish dates of completed activities.

C. Indicate progress of each activity to date of revision, with projected completion date of each activity.

D. Annotate diagrams to graphically depict current status of Work.

E. Identify activities modified since previous submittal, major changes in Work, and other identifiable changes.

F. Indicate changes required to maintain Date of Substantial Completion.

G. Submit reports required to support recommended changes.

3.05 RECOVERY SCHEDULE

A. Should the Contractor fall behind schedule by more than five (5) days due to the fault of the Contractor, the Contractor shall provide a recovery schedule to the Owner, Architect, and Owner's Representative within five (5) days of request by the Owner's Representative.

3.06 DISTRIBUTION OF SCHEDULE

A. Distribute copies of updated schedules to Contractor's project site file, to subcontractors, suppliers, Architect, Owner, Owner's Representative, and other concerned parties.

B. Instruct recipients to promptly report, in writing, problems anticipated by projections indicated in schedules.

END OF SECTION

SECTION 01 40 00
QUALITY REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Submittals.

B. Quality assurance.

C. References and standards.

D. Testing and inspection agencies and services.

E. Contractor's construction-related professional design services.

F. Contractor's design-related professional design services.

G. Control of installation.

H. Mock-ups.

I. Tolerances.

J. Defect Assessment.

1.02 REFERENCE STANDARDS

A. ASTM C1021 - Standard Practice for Laboratories Engaged in Testing of Building Sealants; 2008 (Reapproved 2023).

B. ASTM C1077 - Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation; 2026a.

C. ASTM C1093 - Standard Practice for Accreditation of Testing Agencies for Masonry; 2025.

D. ASTM D3740 - Standard Practice for Minimum Requirements for Agencies Engaged in Testing of Soil and Rock as Used in Engineering Design and Construction; 2026.

E. ASTM E329 - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection; 2026.

F. ASTM E543 - Standard Specification for Agencies Performing Nondestructive Testing; 2026.

G. IAS AC89 - Accreditation Criteria for Testing Laboratories; 2025.

1.03 DEFINITIONS

A. Contractor's Quality Control Plan: Contractor's management plan for executing the Contract for Construction.

B. Contractor's Professional Design Services: Design of some aspect or portion of the project by party other than the design professional of record. Provide these services as part of the Contract for Construction.

1. Design Services Types Required:
    a. Construction-Related: Services Contractor needs to provide in order to carry out the Contractor’s sole responsibilities for construction means, methods, techniques, sequences, and procedures.
    b. Design-Related: Design services explicitly required to be performed by another design professional due to highly-technical and/or specialized nature of a portion of the project. Services primarily involve engineering analysis, calculations, and design, and are not intended to alter the aesthetic aspects of the design.

C. Design Data: Design-related, signed and sealed drawings, calculations, specifications, certifications, shop drawings and other submittals provided by Contractor, and prepared directly by, or under direct supervision of, appropriately licensed design professional.

1.04 CONTRACTOR'S CONSTRUCTION-RELATED PROFESSIONAL DESIGN SERVICES

A. Coordination: Contractor's professional design services are subject to requirements of project's Conditions for Construction Contract.

B. Provide such engineering design services as may be necessary to plan and safely conduct certain construction operations.

1.05 CONTRACTOR'S DESIGN-RELATED PROFESSIONAL DESIGN SERVICES

A. Coordination: Contractor's professional design services are subject to requirements of project's Conditions for Construction Contract.

B. Base design on performance and/or design criteria indicated in individual specification sections.

1.06 SUBMITTALS

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

B. Design Data: Submit for Architect's knowledge as contract administrator for the limited purpose of assessing compliance with information given and the design concept expressed in the Contract Documents, or for Owner's information.

C. Test Reports: After each test/inspection, promptly submit PDF copies of report to Architect and to Contractor.

D. Certificates: When specified in individual specification sections, submit certification by the manufacturer and Contractor or installation/application subcontractor to Architect, in quantities specified for Product Data.
   1. Indicate material or product complies with or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.

E. Erection Drawings: Submit drawings for Architect's benefit as contract administrator or for Owner.
   1. Submit for information for the limited purpose of assessing compliance with information given and the design concept expressed in the Contract Documents.

1.07 QUALITY ASSURANCE

A. Testing Agency Qualifications:
   1. Qualification Statement: Provide documentation showing testing laboratory is accredited under IAS AC89.

B. Designer Qualifications: Where professional engineering design services and design data submittals are specifically required of Contractor by Contract Documents, provide services of a Professional Engineer experienced in design of this type of work and licensed in the State in which the Project is located.

C. Contractor's Quality Control (CQC) Plan:
   1. Prior to start of work, submit a comprehensive plan describing how contract deliverables will be produced.

1.08 REFERENCES AND STANDARDS

A. For products and workmanship specified by reference to a document or documents not included in the Project Manual, also referred to as reference standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.

B. Comply with reference standard of date of issue current on date of Contract Documents, except where a specific date is established by applicable code.

C. Obtain copies of standards where required by product specification sections.

D. Maintain copy at project site during submittals, planning, and progress of the specific work, until Substantial Completion.

E. Should specified reference standards conflict with Contract Documents, request clarification from Architect before proceeding.

F. Neither the contractual relationships, duties, or responsibilities of the parties in Contract nor those of Architect shall be altered from Contract Documents by mention or inference otherwise in any reference document.

1.09 TESTING AND INSPECTION AGENCIES AND SERVICES

A. Contractor shall employ and pay for services of an independent testing agency to perform other specified testing which is not provided by the Owner's testing agency.

B. Employment of agency in no way relieves Contractor of obligation to perform Work in accordance with requirements of Contract Documents.

C. The Owner shall employ and pay for Special Inspections listed on the structural plans, including soil testing and concrete testing. Contractor will assist, coordinate, and schedule with the Owner's inspection agent to perform onsite testing work as required by the documents. If the agency must re-test or re-inspect for failed tests or inspections, or if the Contractor fails to notify the testing agency of a canceled test or inspection, then the Contractor shall compensate the Owner for such tests or inspections.

D. The Owner may opt to utilize a third party building enclosure agency and/or a third party commissioning agency. Contractor shall assist with such testing and commissioning.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 CONTROL OF INSTALLATION

A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce work of specified quality.

B. Comply with manufacturers' instructions, including each step in sequence.

C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.

D. Comply with specified standards as minimum quality for the work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.

E. Have work performed by persons qualified to produce required and specified quality.

F. Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.

G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, and disfigurement.

H. All ductwork ends to be sealed prior to arriving onsite, and seals at end of ductwork to be maintained throughout construction.

3.02 MOCK-UPS

A. Before installing portions of the Work where mock-ups are required, for each form of construction and finish required to comply with the following requirements, using materials indicated for the completed Work. The purpose of mock-up is to demonstrate the proposed range of aesthetic effects and workmanship.
   1. General layout of mock-up is indicated on the drawings.

B. Accepted mock-ups establish the standard of quality the Architect will use to judge the Work.

C. Free-Stainding Integrated Exterior Mock-ups: Construct integrated exterior mock-up as indicated on drawings. Coordinate installation of exterior envelope materials and products as required in individual Specification Sections. Provide adequate supporting structure for mock-up materials as necessary.

D. Notify Architect fifteen (15) working days in advance of dates and times when mock-ups will be constructed.

E. Provide supervisory personnel who will oversee mock-up construction. Provide workers that will be employed during the construction at Project.

F. Tests shall be performed under provisions identified in this section and identified in the respective product specification sections.

G. Assemble and erect specified items with specified attachment and anchorage devices, flashings, seals, and finishes.

H. Obtain Architect's approval of mock-ups before starting work, fabrication, or construction.
   1. Architect will issue written comments within seven (7) working days of initial review and each subsequent follow up review of each mock-up.
   2. Make corrections as necessary until Architect's approval is issued.

I. Architect will use accepted mock-ups as a comparison standard for the remaining Work.

J. Where mock-up has been accepted by Architect and is specified in product specification sections to be removed, protect mock-up throughout construction, remove mock-up and clear area when directed to do so by Architect.

K. Where possible salvage and recycle the demolished mock-up materials.

3.03 TOLERANCES

A. Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate.

B. Comply with manufacturers' tolerances. Should manufacturers' tolerances conflict with Contract Documents, request clarification from Architect before proceeding.

C. Adjust products to appropriate dimensions; position before securing products in place.

3.04 TESTING AND INSPECTION

A. Testing Agency Duties:
   1. Provide qualified personnel at site. Cooperate with Architect and Contractor in performance of services.
   2. Perform specified sampling and testing of products in accordance with specified standards.
   3. Ascertain compliance of materials and mixes with requirements of Contract Documents.
   4. Promptly notify Architect and Contractor of observed irregularities or non-compliance of Work or products.
   5. Perform additional tests and inspections required by Architect.
   6. Submit reports of all tests/inspections specified.

B. Limits on Testing/Inspection Agency Authority:
   1. Agency may not release, revoke, alter, or enlarge on requirements of Contract Documents.
   2. Agency may not approve or accept any portion of the Work.
   3. Agency may not assume any duties of Contractor.
   4. Agency has no authority to stop the Work.

C. Contractor Responsibilities:
   1. Deliver to agency at designated location, adequate samples of materials proposed to be used that require testing, along with proposed mix designs.
   2. Cooperate with laboratory personnel, and provide access to the Work and to manufacturers' facilities.
   3. Provide incidental labor and facilities:
      a. To provide access to Work to be tested/inspected.
      b. To obtain and handle samples at the site or at source of Products to be tested/inspected.
      c. To facilitate tests/inspections.
      d. To provide storage and curing of test samples.
   4. Notify Architect and laboratory 24 hours prior to expected time for operations requiring testing/inspection services.
   5. Employ services of an independent qualified testing laboratory and pay for additional samples, tests, and inspections required by Contractor beyond specified requirements.

6. Arrange with Owner's agency and pay for additional samples, tests, and inspections required by Contractor beyond specified requirements.

D. Re-testing required because of non-compliance with specified requirements shall be performed by the same agency on instructions by Architect.

E. Re-testing required because of non-compliance with specified requirements shall be paid for by Contractor.

3.05 DEFECT ASSESSMENT

A. Replace Work or portions of the Work not complying with specified requirements.

B. If, in the opinion of Architect, it is not practical to remove and replace the work, Architect will direct an appropriate remedy or adjust payment.

END OF SECTION

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SECTION 01 42 16
DEFINITIONS

PART 1 GENERAL

1.01 SUMMARY

A. Other definitions are included in individual specification sections.

1.02 DEFINITIONS

A. Furnish: To supply, deliver, load, unload, distribute, hoist, and inspect for damage.

B. Install: To unpack, assemble, erect, apply, place, finish, cure, protect, clean, start up, and make ready for use.

C. Product: Material, machinery, components, equipment, fixtures, and systems forming the work result. Not materials or equipment used for preparation, fabrication, conveying, or erection and not incorporated into the work result. Products may be new, never before used, or re-used materials or equipment.

D. Project Manual: The book-sized volume that includes the procurement requirements (if any), the contracting requirements, and the specifications.

E. Provide: To furnish and install.

F. Supply: Same as Furnish.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

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SECTION 01 50 00
TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Dewatering

B. Temporary utilities.

C. Temporary telecommunications services.

D. Temporary sanitary facilities.

E. Temporary Controls: Barriers, enclosures, and fencing.

F. Security requirements.

G. Vehicular access and parking.

H. Waste removal facilities and services.

I. Field offices.

1.02 DEWATERING

A. Provide temporary means and methods for dewatering all temporary facilities and controls.

B. Maintain temporary facilities in operable condition.

1.03 TEMPORARY UTILITIES

A. Provide and pay for all electrical power, lighting, water, heating and cooling, and ventilation required for construction purposes.

B. Contractor is responsible for backflow preventers and hydrant use.

C. Existing facilities may not be used.

D. New permanent facilities may not be used without written authorization from the Owner..

E. Use trigger-operated nozzles for water hoses, to avoid waste of water.

F. Contractor to take note of nearest water source. If a water source is not available onsite, Contractor shall provide an alternate means for construction water.

G. Contractor to provide ice, cups, and drinking water for workers.

1.04 TELECOMMUNICATIONS SERVICES

A. Provide, maintain, and pay for telecommunications services to field office at time of project mobilization.

1.05 TEMPORARY SANITARY FACILITIES

A. Provide and maintain required facilities and enclosures. Provide at time of project mobilization.

B. New permanent facilities may not be used during construction operations.

C. Maintain daily in clean and sanitary condition.

D. At end of construction, return facilities to same or better condition as originally found.

1.06 BARRIERS

A. Provide barriers to prevent unauthorized entry to construction areas, to prevent access to areas that could be hazardous to workers or the public, to allow for owner's use of site and to protect existing facilities and adjacent properties from damage from construction operations and demolition.

B. Provide barricades and covered walkways required by governing authorities for public rights-of-way.

C. Provide protection for plants designated to remain. Replace damaged plants.

D. Protect non-owned vehicular traffic, stored materials, site, and structures from damage.

1.07 FENCING

A. Construction: Commercial grade chain link fence.

B. Provide 8 foot high fence completely surrounding all sides of the construction site; equip with vehicular and pedestrian gates with locks.

C. Contractor shall supply, install, maintain, move, and remove fencing as required for the Work.

1.08 EXTERIOR ENCLOSURES

A. Provide temporary insulated weather tight closure of exterior openings to accommodate acceptable working conditions and protection for Products, to allow for temporary heating, dehumidifcation, and maintenance of required ambient temperatures identified in individual specification sections, and to prevent entry of unauthorized persons. Provide access doors with self-closing hardware and locks.

1.09 INTERIOR ENCLOSURES

A. Provide temporary partitions and ceilings as indicated to separate work areas from Owner-occupied areas, to prevent penetration of dust and moisture into Owner-occupied areas, and to prevent damage to existing materials and equipment.

B. Construction: Framing and reinforced polyethylene sheet materials with closed joints and sealed edges at intersections with existing surfaces:

1.10 SECURITY

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

B. Provide static, wide-angle, time-lapse construction camera including mounting hardware, poles, power, and connectivity.
   1. 10-minute time-lapse intervals.
   2. Wide-angle capable of capturing the entire site.
   3. 16 megapixel or higher resolution.
   4. Provide connectivity to live and recorded images for Archiitect, Owner, Owner's Representative.

1.11 VEHICULAR ACCESS AND PARKING

A. Provide temporary rock at vehicular access and parking area, and any other rock access as may be required to complete the work.

B. Comply with regulations relating to use of streets and sidewalks, access to emergency facilities, and access for emergency vehicles.

C. Coordinate access and haul routes with governing authorities and Owner, and Owner's Representative..

D. Provide and maintain access to fire hydrants, free of obstructions.

E. Provide clear delineation of contractor parking and material staging areas.

F. Provide means of removing mud from vehicle wheels before entering streets.
   1. Contractor to provide street cleaning to remove dirt, mud, and debris generated by the project as needed to maintain a clean surface at existing drives, parking lots, and public roads.

G. Provide temporary parking areas to accommodate construction personnel. When site space is not adequate, provide additional off-site parking.

H. Provide 2 parking spaces for Owner use.

I. Provide one parking space for Architect use.

J. Provide two parking spaces for Owner's Representative use.

1.12 WASTE REMOVAL

A. Provide waste removal facilities and services as required to maintain the site in clean and orderly condition.

B. Provide containers with lids. Remove trash from site periodically.

C. If materials to be recycled or re-used on the project must be stored on-site, provide suitable non-combustible containers; locate containers holding flammable material outside the structure unless otherwise approved by the authorities having jurisdiction.

D. Open free-fall chutes are not permitted. Terminate closed chutes into appropriate containers with lids.

1.13 FIELD OFFICES

A. Office: Weathertight, with lighting, electrical outlets, heating, cooling equipment, and equipped with sturdy furniture, drawing rack, and drawing display table.

B. Provide space for Project meetings, with table and chairs to accommodate 8 persons.

C. Locate offices a minimum distance of 30 feet from existing and new structures.

D. Provide flat surface and temporary rock as required for trailer placement.

E. Provide first aid and safety supplies within the field office.

1.14 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

A. Remove temporary utilities, equipment, facilities, materials, prior to Date of Substantial Completion inspection.

B. Remove underground installations to a minimum depth of 2 feet. Grade site as indicated.

C. Clean and repair damage caused by installation or use of temporary work.

D. Restore existing facilities used during construction to original condition.

E. Restore new permanent facilities used during construction to specified condition.

F. Restore land distrubed during construction to its original condition.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

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SECTION 01 60 00
PRODUCT REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. General product requirements.

B. Re-use of existing products.

C. Transportation, handling, storage and protection.

D. Product option requirements.

E. Substitution limitations.

F. Maintenance materials, including extra materials, spare parts, tools, and software.

1.02 REFERENCE STANDARDS

1.03 SUBMITTALS

A. Proposed Products List: Submit list of major products proposed for use, with name of manufacturer, trade name, and model number of each product.
   1. Submit within 15 days after date of Agreement.
   2. For products specified only by reference standards, list applicable reference standards.

B. Product Data Submittals: Submit manufacturer's standard published data. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.

C. Shop Drawing Submittals: Prepared specifically for this Project; indicate utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.

D. Sample Submittals: Illustrate functional and aesthetic characteristics of the product, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.
   1. For selection from standard finishes, submit samples of the full range of the manufacturer's standard colors, textures, and patterns.

PART 2 PRODUCTS

2.01 EXISTING PRODUCTS

A. Do not use materials and equipment removed from existing premises unless specifically required or permitted by Contract Documents.

B. Unforeseen historic items encountered remain the property of the Owner; notify Owner promptly upon discovery; protect, remove, handle, and store as directed by Owner.

C. Existing materials and equipment indicated to be removed, but not to be re-used, relocated, reinstalled, delivered to the Owner, or otherwise indicated as to remain the property of the Owner, become the property of the Contractor; remove from site.

2.02 NEW PRODUCTS

A. Provide new products unless specifically required or permitted by Contract Documents.

B. Use of products having any of the following characteristics is not permitted:
   1. Made using or containing CFC's or HCFC's.
   2. Made of wood from newly cut old growth timber.
   3. Containing lead, cadmium, or asbestos.

2.03 PRODUCT OPTIONS

A. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.

B. Products Specified by Naming One or More Manufacturers: Use a product of one of the manufacturers named and meeting specifications, no options or substitutions allowed.

C. Products Specified by Naming One or More Manufacturers with a Provision for Substitutions: Submit a request for substitution for any manufacturer not named.

D. Products Specified as Basis-of-Design: Submit substitution requests for unnamed products to Architect for evaluation.

2.04 MAINTENANCE MATERIALS

A. Furnish extra materials, spare parts, tools, and software of types and in quantities specified in individual specification sections.

B. Deliver to Project site; obtain receipt prior to final payment.

PART 3 EXECUTION

3.01 SUBSTITUTION LIMITATIONS

A. See Section 01 25 00 - Substitution Procedures.

3.02 TRANSPORTATION AND HANDLING

A. Package products for shipment in manner to prevent damage; for equipment, package to avoid loss of factory calibration.

B. If special precautions are required, attach instructions prominently and legibly on outside of packaging.

C. Coordinate schedule of product delivery to designated prepared areas in order to minimize site storage time and potential damage to stored materials.

D. Transport and handle products in accordance with manufacturer's instructions.

E. Transport materials in covered trucks to prevent contamination of product and littering of surrounding areas.

F. Promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged.

G. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage, and to minimize handling.

H. Arrange for the return of packing materials, such as wood pallets, where economically feasible.

3.03 STORAGE AND PROTECTION

A. Provide protection of stored materials and products against theft, casualty, or deterioration.

B. Designate receiving/storage areas for incoming products so that they are delivered according to installation schedule and placed convenient to work area in order to minimize waste due to excessive materials handling and misapplication.

C. Store and protect products in accordance with manufacturers' instructions.

D. Store with seals and labels intact and legible.

E. Store sensitive products in weathertight, climate-controlled enclosures in an environment favorable to product.

F. For exterior storage of fabricated products, place on sloped supports above ground.

G. Protect products from damage or deterioration due to construction operations, weather, precipitation, humidity, temperature, sunlight and ultraviolet light, dirt, dust, and other contaminants.

H. Comply with manufacturer's warranty conditions, if any.

I. Do not store products directly on the ground.

J. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of products.

K. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter.

L. Prevent contact with material that may cause corrosion, discoloration, or staining.

M. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.

N. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.

END OF SECTION

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SECTION 01 70 00
EXECUTION AND CLOSEOUT REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Examination, preparation, and general installation procedures.

B. Requirements for alterations work, including selective demolition.

C. Cutting and patching.

D. Surveying for laying out the work.

E. Cleaning and protection.

F. Starting of systems and equipment.

G. Demonstration and instruction of Owner personnel.

H. Closeout procedures, including Contractor's Correction Punch List, except payment procedures.

1.02 RELATED REQUIREMENTS

A. Section 01 10 00 - Summary: Limitations on working in existing building; continued occupancy; work sequence; identification of salvaged and relocated materials.

B. Section 01 30 00 - Administrative Requirements: Submittals procedures, Electronic document submittal service.

C. Section 01 40 00 - Quality Requirements: Testing and inspection procedures.

D. Section 01 50 00 - Temporary Facilities and Controls: Temporary exterior enclosures.

E. Section 01 50 00 - Temporary Facilities and Controls: Temporary interior partitions.

F. Section 01 78 00 - Closeout Submittals: Project record documents, operation and maintenance data, warranties.

G. Section 01 79 00 - Demonstration and Training: Demonstration of products and systems to be commissioned and where indicated in specific specification sections

1.03 REFERENCE STANDARDS

A. NFPA 241 - Standard for Safeguarding Construction, Alteration, and Demolition Operations; 2027.

1.04 SUBMITTALS

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

B. Survey work: Submit name, address, and telephone number of Surveyor before starting survey work.
   1. On request, submit documentation verifying accuracy of survey work.
   2. Submit a copy of site drawing signed by the Land Surveyor, that the elevations and locations of the work are in compliance with Contract Documents.
   3. Submit surveys and survey logs for the project record.

C. Cutting and Patching: Submit written request in advance of cutting or alteration that affects:
   1. Structural integrity of any element of Project.
   2. Integrity of weather exposed or moisture resistant element.
   3. Efficiency, maintenance, or safety of any operational element.
   4. Visual qualities of sight exposed elements.

D. Project Record Documents: Accurately record actual locations of capped and active utilities.

1.05 PROJECT CONDITIONS

A. Construction work shall only be allowed during hours permitted by local jurisdiction. If Contractor opts to work outside of those hours, the Contractor must contact the Owner and local jurisdiction to obtain permission.

B. Contractor is responsible for coordinating, staging, and relocating materials as required to complete the Work.

C. Provide flat surface and temporary rock as required for trailer placement. Provide first aid and safety supplies within the field office.

D. Use of explosives is not permitted.

E. Smoking will not be allowed inside the building once interior construction begins.

F. Grade site to drain. Maintain excavations free of water. Provide, operate, and maintain pumping equipment.

G. Protect site from puddling or running water. Provide water barriers as required to protect site from soil erosion.

H. Perform dewatering activities, as required, for the duration of the project.

I. Ventilate enclosed areas to assist cure of materials, to dissipate humidity, and to prevent accumulation of dust, fumes, vapors, or gases.

J. Dust Control: Execute work by methods to minimize raising dust from construction operations. Provide positive means to prevent air-borne dust from dispersing into atmosphere and over adjacent property.
   1. Provide dust-proof enclosures to prevent entry of dust generated outdoors.
   2. Provide dust-proof barriers between construction areas and areas continuing to be occupied by Owner.

K. Erosion and Sediment Control: Plan and execute work by methods to control surface drainage from cuts and fills, from borrow and waste disposal areas. Prevent erosion and sedimentation.
   1. Provide temporary measures such as berms, dikes, and drains, to prevent water flow.
   2. Periodically inspect earthwork to detect evidence of erosion and sedimentation; promptly apply corrective measures.

L. Noise Control: Provide methods, means, and facilities to minimize noise produced by construction operations.
   1. Outdoors: Limit conduct of especially noisy exterior work to the hours of 8 am to 5 pm.

M. Pest and Rodent Control: Provide methods, means, and facilities to prevent pests and insects from damaging the work.

N. Rodent Control: Provide methods, means, and facilities to prevent rodents from accessing or invading premises.

O. Pollution Control: Provide methods, means, and facilities to prevent contamination of soil, water, and atmosphere from discharge of noxious, toxic substances, and pollutants produced by construction operations. Comply with federal, state, and local regulations.

P. Contractor to ensure all neighboring property services will not be disrupted during the course of construction. Should there be any impact to services, the Contractor shall coordinate outages and perform work "off-hours" including nights and weekends.

1.06 COORDINATION

A. Coordinate scheduling, submittals, and work of the various sections of the Project Manual to ensure efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later.

B. Contractor is responsible for locating public and private utilities.
   1. Notify affected utility companies and comply with their requirements.

C. Verify that utility requirements and characteristics of new operating equipment are compatible with building utilities. Coordinate work of various sections having interdependent responsibilities for installing, connecting to, and placing in service, such equipment.

D. Coordinate space requirements, supports, and installation of mechanical and electrical work that are indicated diagrammatically on drawings. Follow routing indicated for pipes, ducts, and conduit, as closely as practicable; place runs parallel with lines of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.

E. In finished areas except as otherwise indicated, conceal pipes, ducts, and wiring within the construction. Coordinate locations of fixtures and outlets with finish elements.

F. Coordinate completion and clean-up of work of separate sections.

G. After Owner occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with Contract Documents, to minimize disruption of Owner's activities.

PART 2 PRODUCTS

2.01 PATCHING MATERIALS

A. New Materials: As specified in product sections; match existing products and work for patching and extending work.

B. Type and Quality of Existing Products: Determine by inspecting and testing products where necessary, referring to existing work as a standard.

C. Product Substitution: For any proposed change in materials, submit request for substitution described in Section 01 60 00 - Product Requirements.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing conditions.

B. Verify that existing substrate is capable of structural support or attachment of new work being applied or attached.

C. Examine and verify specific conditions described in individual specification sections.

D. Take field measurements before confirming product orders or beginning fabrication, to minimize waste due to over-ordering or misfabrication.

E. Verify that utility services are available, of the correct characteristics, and in the correct locations.

F. Prior to Cutting: Examine existing conditions prior to commencing work, including elements subject to damage or movement during cutting and patching. After uncovering existing work, assess conditions affecting performance of work. Beginning of cutting or patching means acceptance of existing conditions.

3.02 PREPARATION

A. Clean substrate surfaces prior to applying next material or substance.

B. Seal cracks or openings of substrate prior to applying next material or substance.

C. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying any new material or substance in contact or bond.

3.03 LAYING OUT THE WORK

A. Verify locations of survey control points prior to starting work.

B. Promptly notify Architect of any discrepancies discovered.

C. Contractor shall locate and protect survey control and reference points.

D. Control datum for survey is that indicated on drawings.

E. Protect survey control points prior to starting site work; preserve permanent reference points during construction.

F. Promptly report to Architect the loss or destruction of any reference point or relocation required because of changes in grades or other reasons.

G. Replace dislocated survey control points based on original survey control. Make no changes without prior written notice to Architect.

H. Utilize recognized engineering survey practices.

I. Establish a minimum of two permanent bench marks on site, referenced to established control points. Record locations, with horizontal and vertical data, on project record documents.

J. Establish elevations, lines and levels. Locate and lay out by instrumentation and similar appropriate means:
   1. Site improvements including pavements; stakes for grading, fill and topsoil placement; utility locations, slopes, and invert elevations.
   2. Grid or axis for structures.
   3. Building foundation, column locations, ground floor elevations.

K. Periodically verify layouts by same means.
   1. Contractor shall provide all surveying and layout required to complete the Work.

L. Maintain a complete and accurate log of control and survey work as it progresses.

3.04 GENERAL INSTALLATION REQUIREMENTS

A. Install products as specified in individual sections, in accordance with manufacturer's instructions and recommendations, and so as to avoid waste due to necessity for replacement.

B. Make vertical elements plumb and horizontal elements level, unless otherwise indicated.

C. Install equipment and fittings plumb and level, neatly aligned with adjacent vertical and horizontal lines, unless otherwise indicated.

D. Make consistent texture on surfaces, with seamless transitions, unless otherwise indicated.

E. Make neat transitions between different surfaces, maintaining texture and appearance.

3.05 CUTTING AND PATCHING

A. Whenever possible, execute the work by methods that avoid cutting or patching.

B. Perform whatever cutting and patching is necessary to:
   1. Complete the work.
   2. Fit products together to integrate with other work.
   3. Provide openings for penetration of mechanical, electrical, and other services.
   4. Match work that has been cut to adjacent work.
   5. Repair areas adjacent to cuts to required condition.
   6. Repair new work damaged by subsequent work.
   7. Remove samples of installed work for testing when requested.
   8. Remove and replace defective and non-complying work.

C. Execute work by methods that avoid damage to other work and that will provide appropriate surfaces to receive patching and finishing. In existing work, minimize damage and restore to original condition.

D. Employ original installer to perform cutting for weather exposed and moisture resistant elements, and sight exposed surfaces.

E. Cut rigid materials using masonry saw or core drill. Pneumatic tools not allowed without prior approval.

F. Restore work with new products in accordance with requirements of Contract Documents.

G. Fit work air tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.

H. At penetrations of fire rated walls, partitions, ceiling, or floor construction, completely seal voids with fire rated material in accordance with Section 07 84 00, to full thickness of the penetrated element.

I. Patching:
   1. Finish patched surfaces to match finish that existed prior to patching. On continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit.
   2. Match color, texture, and appearance.
   3. Repair patched surfaces that are damaged, lifted, discolored, or showing other imperfections due to patching work. If defects are due to condition of substrate, repair substrate prior to repairing finish.

3.06 PROGRESS CLEANING

A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.

B. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing the space.

C. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust.

D. Collect and remove waste materials, debris, and trash/rubbish from site periodically and dispose off-site; do not burn or bury.

3.07 PROTECTION OF INSTALLED WORK

A. Protect installed work from damage by construction operations.

B. Provide special protection where specified in individual specification sections.

C. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.

D. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings.

E. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.

F. Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.

G. Prohibit traffic from landscaped areas.

H. Remove protective coverings when no longer needed; reuse or recycle coverings if possible.

3.08 SYSTEM STARTUP

A. Coordinate schedule for start-up of various equipment and systems.

B. Verify that each piece of equipment or system has been checked for proper lubrication, drive rotation, belt tension, control sequence, and for conditions that may cause damage.

C. Verify tests, meter readings, and specified electrical characteristics agree with those required by the equipment or system manufacturer.

D. Verify that wiring and support components for equipment are complete and tested.

E. Execute start-up under supervision of applicable Contractor personnel and manufacturer's representative in accordance with manufacturers' instructions.

F. Submit a written report that equipment or system has been properly installed and is functioning correctly.

3.09 DEMONSTRATION AND INSTRUCTION

A. See Section 01 79 00 - Demonstration and Training.

3.10 ADJUSTING

A. Adjust operating products and equipment to ensure smooth and unhindered operation.

3.11 FINAL CLEANING

A. The Contractor shall provide a heavy construction clean prior to punch list creation so all surfaces can be observed.
   1. Execute final cleaning prior to final project assessment.
   2. Use cleaning materials that are nonhazardous.
   3. Clean interior and exterior glass, surfaces exposed to view; remove temporary labels, stains and foreign substances, polish transparent and glossy surfaces, vacuum carpeted and soft surfaces.
   4. Remove all labels that are not permanent. Do not paint or otherwise cover fire test labels or nameplates on mechanical and electrical equipment.
   5. Clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the surface and material being cleaned.
   6. Clean filters of operating equipment.
   7. Clean debris from roofs, gutters, downspouts, scuppers, overflow drains, area drains, and drainage systems.
   8. Clean HVAC coils and replace filters.
   9. Clean site; sweep paved areas, rake clean landscaped surfaces.
   10. Remove waste, surplus materials, trash/rubbish, and construction facilities from the site; dispose of in legal manner; do not burn or bury.

B. Contractor to provide final cleaning of all building areas and site prior to Owner occupancy, including interior and exterior window cleaning.

3.12 CLOSEOUT PROCEDURES

A. Make submittals that are required by governing or other authorities.

B. Accompany Owner, Architect, and Owner's Representative on preliminary inspection to determine items to be listed for completion or correction in the Contractor's Correction Punch List for Contractor's Notice of Substantial Completion.

C. Notify Architect when work is considered ready for Architect's Substantial Completion inspection.

D. Submit written certification containing Contractor's Correction Punch List, that Contract Documents have been reviewed, work has been inspected, and that work is complete in accordance with Contract Documents and ready for Architect's Substantial Completion inspection.

E. Conduct Substantial Completion inspection and create Final Correction Punch List containing Architect's and Contractor's comprehensive list of items identified to be completed or corrected and submit to Architect.

F. Correct items of work listed in Final Correction Punch List and comply with requirements for access to Owner-occupied areas.

G. Notify Architect when work is considered finally complete and ready for Architect's Substantial Completion final inspection.

H. Complete items of work determined by Architect listed in executed Certificate of Substantial Completion.

3.13 MAINTENANCE

END OF SECTION

SECTION 01 78 00
CLOSEOUT SUBMITTALS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Project record documents.

B. Operation and maintenance data.

C. Warranties and bonds.

1.02 RELATED REQUIREMENTS

A. Section 01 30 00 - Administrative Requirements: Submittals procedures, shop drawings, product data, and samples.

B. Individual Product Sections: Specific requirements for operation and maintenance data.

C. Individual Product Sections: Warranties required for specific products or Work.

1.03 SUBMITTALS

A. Project Record Documents: Submit documents to Architect with claim for final Application for Payment.
   1. Contractor shall compile for the Owner Project Record Documents including "red-lined" copies of project changes throughout the course of the project to identify systems as they were actually installed. Project Record Documents shall be electronically recorded and submitted to the Owner, Architect, and Owner's Representative.

B. Operation and Maintenance Data:
   1. For equipment, or component parts of equipment put into service during construction and operated by Owner, submit completed documents within ten days after acceptance.
   2. Submit one copy of completed documents 15 days prior to final inspection. This copy will be reviewed and returned after final inspection, with Architect comments. Revise content of all document sets as required prior to final submission.
   3. Submit two sets of revised final documents in final form within 10 days after final inspection.

C. Warranties and Bonds:
   1. For equipment or component parts of equipment put into service during construction with Owner's permission, submit documents within 10 days after acceptance.
   2. Make other submittals within 10 days after Date of Substantial Completion, prior to final Application for Payment.
   3. For items of Work for which acceptance is delayed beyond Date of Substantial Completion, submit within 10 days after acceptance, listing the date of acceptance as the beginning of the warranty period.
   4. The beginning date of all warranties is as described in the General Conditions of the Contract for Construction, AIA A201-2017, Paragraph 12.2.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PROJECT RECORD DOCUMENTS

A. Maintain on site one set of the following record documents; record actual revisions to the Work:
   1. Drawings.
   2. Specifications.
   3. Addenda.
   4. Change Orders and other modifications to the Contract.
   5. Reviewed shop drawings, product data, and samples.
   6. Manufacturer's instruction for assembly, installation, and adjusting.

B. Ensure entries are complete and accurate, enabling future reference by Owner.

C. Store record documents separate from documents used for construction.

D. Record information concurrent with construction progress.

E. Specifications: Legibly mark and record at each product section description of actual products installed, including the following:
   1. Manufacturer's name and product model and number.
   2. Product substitutions or alternates utilized.
   3. Changes made by Addenda and modifications.

F. Record Drawings and Shop Drawings: Legibly mark each item to record actual construction including:
   1. Field changes of dimension and detail.
   2. Details not on original Contract drawings.

3.02 OPERATION AND MAINTENANCE DATA

A. Source Data: For each product or system, list names, addresses and telephone numbers of Subcontractors and suppliers, including local source of supplies and replacement parts.

B. Product Data: Mark each sheet to clearly identify specific products and component parts, and data applicable to installation. Delete inapplicable information.

C. Drawings: Supplement product data to illustrate relations of component parts of equipment and systems, to show control and flow diagrams. Do not use Project Record Documents as maintenance drawings.

D. Typed Text: As required to supplement product data. Provide logical sequence of instructions for each procedure, incorporating manufacturer's instructions.

3.03 OPERATION AND MAINTENANCE DATA FOR MATERIALS AND FINISHES

A. For Each Product, Applied Material, and Finish:
   1. Product data, with catalog number, size, composition, and color and texture designations.

B. Instructions for Care and Maintenance: Manufacturer's recommendations for cleaning agents and methods, precautions against detrimental cleaning agents and methods, and recommended schedule for cleaning and maintenance.

C. Moisture protection and weather-exposed products: Include product data listing applicable reference standards, chemical composition, and details of installation. Provide recommendations for inspections, maintenance, and repair.

D. Additional information as specified in individual product specification sections.

E. Where additional instructions are required, beyond the manufacturer's standard printed instructions, have instructions prepared by personnel experienced in the operation and maintenance of the specific products.

3.04 OPERATION AND MAINTENANCE DATA FOR EQUIPMENT AND SYSTEMS

A. For Each Item of Equipment and Each System:
   1. Description of unit or system, and component parts.
   2. Identify function, normal operating characteristics, and limiting conditions.
   3. Include performance curves, with engineering data and tests.
   4. Complete nomenclature and model number of replaceable parts.

B. Where additional instructions are required, beyond the manufacturer's standard printed instructions, have instructions prepared by personnel experienced in the operation and maintenance of the specific products.

C. Panelboard Circuit Directories: Provide electrical service characteristics, controls, and communications; typed.

D. Include color coded wiring diagrams as installed.

E. Operating Procedures: Include start-up, break-in, and routine normal operating instructions and sequences. Include regulation, control, stopping, shut-down, and emergency instructions. Include summer, winter, and any special operating instructions.

F. Maintenance Requirements: Include routine procedures and guide for preventative maintenance and trouble shooting; disassembly, repair, and reassembly instructions; and alignment, adjusting, balancing, and checking instructions.

G. Include manufacturer's printed operation and maintenance instructions.

H. Include sequence of operation by controls manufacturer.

I. Provide original manufacturer's parts list, illustrations, assembly drawings, and diagrams required for maintenance.

J. Provide control diagrams by controls manufacturer as installed.

K. Provide Contractor's coordination drawings, with color coded piping diagrams as installed.

L. Provide charts of valve tag numbers, with location and function of each valve, keyed to flow and control diagrams.

M. Provide list of original manufacturer's spare parts, current prices, and recommended quantities to be maintained in storage.

N. Include test and balancing reports.

O. Additional Requirements: As specified in individual product specification sections.

3.05 ASSEMBLY OF OPERATION AND MAINTENANCE MANUALS

A. Assemble operation and maintenance data into durable manuals for Owner's personnel use, with data arranged in the same sequence as, and identified by, the specification sections.

B. Where systems involve more than one specification section, provide separate tabbed divider for each system.

C. Binders: Commercial quality, 8-1/2 by 11 inch three D side ring binders with durable plastic covers; 2 inch maximum ring size. When multiple binders are used, correlate data into related consistent groupings.

D. Cover: Identify each binder with typed or printed title OPERATION AND MAINTENANCE INSTRUCTIONS; identify title of Project; identify subject matter of contents.

E. Project Directory: Title and address of Project; names, addresses, and telephone numbers of Architect, Consultants, Contractor and subcontractors, with names of responsible parties.

F. Tables of Contents: List every item separated by a divider, using the same identification as on the divider tab; where multiple volumes are required, include all volumes Tables of Contents in each volume, with the current volume clearly identified.

G. Dividers: Provide tabbed dividers for each separate product and system; identify the contents on the divider tab; immediately following the divider tab include a description of product and major component parts of equipment.

H. Text: Manufacturer's printed data, or typewritten data on 20 pound paper.

I. Drawings: Provide with reinforced punched binder tab. Bind in with text; fold larger drawings to size of text pages.

J. Arrangement of Contents: Organize each volume in parts as follows:
   1. Project Directory.
   2. Table of Contents, of all volumes, and of this volume.
   3. Operation and Maintenance Data: Arranged by system, then by product category.
      a. Source data.
      b. Operation and maintenance data.
      c. Field quality control data.
      d. Photocopies of warranties and bonds.

3.06 WARRANTIES AND BONDS

A. Obtain warranties and bonds, executed in duplicate by responsible Subcontractors, suppliers, and manufacturers, within 10 days after completion of the applicable item of work. Except for items put into use with Owner's permission, leave date of beginning of time of warranty until Date of Substantial completion is determined.

B. Verify that documents are in proper form, contain full information, and are notarized.

C. Co-execute submittals when required.

D. Retain warranties and bonds until time specified for submittal.

E. Include originals of each in operation and maintenance manuals, indexed separately on Table of Contents.

3.07 WARRANTY PERIOD SERVICES

A. During the warranty period, the Contractor shall document, maintain, and update a Warranty Log of all warranty items and distribute the Warranty Log to the Owner and Owner's Representative. Contractor shall acknowledge the Owner's warranty call within four (4) hours and keep the Owner apprised of the resolution status. Any roof or building envelope leaks or issues which interfere with regular building operations shall be considered urgent. Contractor to provide a 24-hour on-call service for such urgent items.

END OF SECTION

SECTION 01 79 00
DEMONSTRATION AND TRAINING

PART 1 GENERAL

1.01 SUMMARY

A. Demonstration of products and systems where indicated in specific specification sections.

B. Training of Owner personnel in operation and maintenance is required for:
   1. All software-operated systems.
   2. HVAC systems and equipment.
   3. Plumbing equipment.
   4. Electrical systems and equipment.
   5. Items specified in individual product Sections.

C. Training of Owner personnel in care, cleaning, maintenance, and repair is required for:
   1. Finishes, including flooring, wall finishes, ceiling finishes.
   2. Fixtures and fittings.
   3. Items specified in individual product Sections.

1.02 SUBMITTALS

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

B. Training Plan: Owner will designate personnel to be trained; tailor training to needs and skill-level of attendees.
   1. Submit to Architect for transmittal to Owner.
   2. Submit not less than four weeks prior to start of training.
   3. Revise and resubmit until acceptable.
   4. Provide an overall schedule showing all training sessions.
   5. Include at least the following for each training session:
      a. Identification, date, time, and duration.
      b. Description of products and/or systems to be covered.
      c. Name of firm and person conducting training; include qualifications.
      d. Intended audience, such as job description.
      e. Objectives of training and suggested methods of ensuring adequate training.
      f. Methods to be used, such as classroom lecture, live demonstrations, hands-on, etc.
      g. Media to be used, such a slides, hand-outs, etc.
      h. Training equipment required, such as projector, projection screen, etc., to be provided by Contractor.

C. Training Manuals: Provide training manual for each attendee; allow for minimum of two attendees per training session.
   1. Include applicable portion of O&M manuals.
   2. Include copies of all hand-outs, slides, overheads, video presentations, etc., that are not included in O&M manuals.
   3. Provide one extra copy of each training manual to be included with operation and maintenance data.

D. Video Recordings: Submit digital video recording of each demonstration and training session for Owner's subsequent use.
   1. Contractor shall video tape demonstrations and on-site training and provide electronic submissions of video recordings as part of the closeout documents.
      a. Format: DVD Disc.
      b. Label each disc and container with session identification and date.

1.03 QUALITY ASSURANCE

A. Instructor Qualifications: Familiar with design, operation, maintenance and troubleshooting of the relevant products and systems.

1. Provide as instructors the most qualified trainer of those contractors and/or installers who actually supplied and installed the systems and equipment.
2. Where a single person is not familiar with all aspects, provide specialists with necessary qualifications.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 DEMONSTRATION - GENERAL

A. Demonstrations conducted during system start-up do not qualify as demonstrations for the purposes of this section, unless approved in advance by Owner.

B. Demonstration may be combined with Owner personnel training if applicable.

C. Operating Equipment and Systems: Demonstrate operation in all modes, including start-up, shut-down, seasonal changeover, emergency conditions, and troubleshooting, and maintenance procedures, including scheduled and preventive maintenance.
   1. Perform demonstrations not less than two weeks prior to Substantial Completion.
   2. For equipment or systems requiring seasonal operation, perform demonstration for other season within six months.

D. Non-Operating Products: Demonstrate cleaning, scheduled and preventive maintenance, and repair procedures.
   1. Perform demonstrations not less than two weeks prior to Substantial Completion.

3.02 TRAINING - GENERAL

A. Conduct training on-site unless otherwise indicated.

B. Training schedule will be subject to availability of Owner's personnel to be trained; re-schedule training sessions as required by Owner; once schedule has been approved by Owner failure to conduct sessions according to schedule will be cause for Owner to charge Contractor for personnel "show-up" time.

C. Review of Facility Policy on Operation and Maintenance Data: During training discuss:
   1. The location of the O&M manuals and procedures for use and preservation; backup copies.
   2. Typical contents and organization of all manuals, including explanatory information, system narratives, and product specific information.
   3. Typical uses of the O&M manuals.

D. Product- and System-Specific Training:
   1. Review the applicable O&M manuals.
   2. For systems, provide an overview of system operation, design parameters and constraints, and operational strategies.
   3. Review instructions for proper operation in all modes, including start-up, shut-down, seasonal changeover and emergency procedures, and for maintenance, including preventative maintenance.
   4. Provide hands-on training on all operational modes possible and preventive maintenance.
   5. Emphasize safe and proper operating requirements; discuss relevant health and safety issues and emergency procedures.
   6. Discuss common troubleshooting problems and solutions.
   7. Discuss any peculiarities of equipment installation or operation.
   8. Discuss warranties and guarantees, including procedures necessary to avoid voiding coverage.
   9. Review recommended tools and spare parts inventory suggestions of manufacturers.
   10. Review spare parts and tools required to be furnished by Contractor.
   11. Review spare parts suppliers and sources and procurement procedures.

E. Be prepared to answer questions raised by training attendees; if unable to answer during training session, provide written response within three days.

END OF SECTION

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SECTION 02 41 00
DEMOLITION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Selective demolition of building elements for alteration purposes.

B. Abandonment and removal of existing utilities and utility structures.

1.02 DEFINITIONS

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

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

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

1.03 REFERENCE STANDARDS

A. 29 CFR 1926 - Safety and Health Regulations for Construction; Current Edition.

B. NFPA 241 - Standard for Safeguarding Construction, Alteration, and Demolition Operations; 2027.

PART 2 PRODUCTS -- NOT USED

PART 3 EXECUTION

3.01 DEMOLITION

A. Remove portions of existing building as indicated on the drawings.

B. Remove all other paving and curbs within site boundaries.

C. Remove concrete slabs on grade as indicated on drawings.
   1. Where below slab work is indicated on the drawings, remove concrete slabs on grade as necessary to accomplish the installation of this work whether the portion of the slab that must be removed is shown on the drawings or not.
   2. Fill trench and replace the removed portion of the slab.

D. Fill excavations, open pits, and holes in ground areas generated as result of removals, using specified fill; compact fill as required so that required rough grade elevations do not subside within one year after completion.

3.02 GENERAL PROCEDURES AND PROJECT CONDITIONS

A. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.
   1. Obtain required permits.
   2. Comply with applicable requirements of NFPA 241.
   3. Use of explosives is not permitted.
   4. Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed; do not allow worker or public access within range of potential collapse of unstable structures.
   5. Provide, erect, and maintain temporary barriers and security devices.
   6. Use physical barriers to prevent access to areas that could be hazardous to workers or the public.
   7. Conduct operations to minimize effects on and interference with adjacent structures and occupants.
   8. Do not close or obstruct roadways or sidewalks without permits from authority having jurisdiction.

9. Conduct operations to minimize obstruction of public and private entrances and exits. Do not obstruct required exits at any time. Protect persons using entrances and exits from removal operations.
10. Obtain written permission from owners of adjacent properties when demolition equipment will traverse, infringe upon, or limit access to their property.

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

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

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

3.03 EXISTING UTILITIES

A. Coordinate work with utility companies. Notify utilities before starting work, comply with their requirements, and obtain required permits.

B. Protect existing utilities to remain from damage.

C. Do not disrupt public utilities without permit from authority having jurisdiction.

D. Do not close, shut off, or disrupt existing life safety systems that are in use without at least 7 days prior written notification to Owner.

E. Do not close, shut off, or disrupt existing utility branches or take-offs that are in use without at least 3 days prior written notification to Owner.

F. Locate and mark utilities to remain; mark using highly visible tags or flags, with identification of utility type; protect from damage due to subsequent construction, using substantial barricades if necessary.

G. Remove exposed piping, valves, meters, equipment, supports, and foundations of disconnected and abandoned utilities.

3.04 SELECTIVE DEMOLITION FOR ALTERATIONS

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

B. Remove existing work as indicated and required to accomplish new work.
1. Remove items indicated on drawings.

C. Services including, but not limited to, HVAC, Plumbing, Fire Protection, Electrical, and Telecommunications: Remove existing systems and equipment as indicated.
1. Maintain existing active systems to remain in operation, and maintain access to equipment and operational components.
2. Where existing active systems serve occupied facilities but are to be replaced with new services, maintain existing systems in service until new systems are complete and ready for service.
3. Verify that abandoned services serve only abandoned facilities before removal.
4. Remove abandoned pipe, ducts, conduits, and equipment, including those above accessible ceilings. Remove back to source of supply where possible, otherwise cap stub and tag with identification.

D. Protect existing work to remain.

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

3.05 DEBRIS AND WASTE REMOVAL

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

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

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

END OF SECTION

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SECTION 03 01 00
MAINTENANCE OF CONCRETE

PART 2 PRODUCTS

END OF SECTION

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SECTION 03 35 11
CONCRETE FLOOR FINISHES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Liquid densifiers and hardeners.

1.02 ADMINISTRATIVE REQUIREMENTS

A. Coordination:

B. Coordinate the work with concrete floor placement and concrete floor curing.

1.03 SUBMITTALS

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

B. Maintenance Data: Provide data on maintenance and renewal of applied finishes.

1.04 QUALITY ASSURANCE

1.05 MOCK-UPS

A. For coatings, construct mock-up area under conditions similar to those that will exist during application, with coatings applied.

B. Mock-up may remain as part of the work.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in manufacturer's sealed packaging, including application instructions.

1.07 WARRANTY

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

PART 2 PRODUCTS

2.01 APPLICATIONS

A. Densifier and Hardener:
   1. Use at locations indicated on the drawings.

2.02 DENSIFIERS AND HARDENERS

A. Liquid Densifier and Hardener: Penetrating chemical compound that reacts with concrete, filling the pores, hardening, and dustproofing.
   1. Composition: Sodium silicate, with siliconate.
      a. Products:
         1) Curecrete Distribution, Inc; Ashford Formula: www.curecrete.com/#sle.
         2) Substitutions: See Section 01 60 00 - Product Requirements.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that floor surfaces are acceptable to receive the work of this section.

B. Verify that flaws in concrete have been patched and joints filled with methods and materials suitable for further finishes.

3.02 GENERAL

A. Apply materials in accordance with manufacturer's instructions.

END OF SECTION

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SECTION 04 01 00
MAINTENANCE OF MASONRY

PART 2 PRODUCTS

END OF SECTION

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SECTION 06 10 53
MISCELLANEOUS ROUGH CARPENTRY

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Concealed wood blocking, nailers, and supports.

1.02 REFERENCE STANDARDS

A. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2023.

B. PS 20 - American Softwood Lumber Standard; 2025.

1.03 DELIVERY, STORAGE, AND HANDLING

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

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies.
   1. Grading Agency: Grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee (www.alsc.org), and that provides grading service for species and grade specified. Provide lumber stamped with grade mark unless otherwise indicated.

2.02 DIMENSION LUMBER

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

B. Moisture Content: S-dry or MC19.

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

2.03 ACCESSORIES

A. Metal and Finish of Fasteners:
   1. Untreated Wood: Unfinished steel.
   2. Metal and Finish: Hot-dip galvanized steel complying with ASTM A153/A153M for high humidity and preservative-treated wood locations, unfinished steel elsewhere.

PART 3 EXECUTION

3.01 INSTALLATION - GENERAL

A. Select material sizes to minimize waste.

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

3.02 BLOCKING, NAILERS, AND SUPPORTS

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

B. In walls, provide blocking attached to studs as backing and support for wall-mounted items unless item can be securely fastened to two or more studs or another method of support is explicitly indicated.

C. Where ceiling mounting is indicated, provide blocking and supplementary supports above ceiling unless another method of support is explicitly indicated.

END OF SECTION

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SECTION 06 20 00
FINISH CARPENTRY

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Finish carpentry items.

B. Prefinished wood paneling.

1.02 RELATED REQUIREMENTS

A. Section 06 41 00 Architectural Wood Casework

B. Section 09 64 33 Laminated Wood Flooring

C. Section 09 93 00 - Staining and Transparent Finishing.

1.03 REFERENCE STANDARDS

A. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards, 2nd Edition; 2014, with Errata (2016).

B. AWMAC/WI (NAAWS) - North American Architectural Woodwork Standards; 2021, with Errata.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordinate the work with plumbing rough-in, electrical rough-in, and installation of associated and adjacent components.

1.05 SUBMITTALS

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

B. Product Data:
   1. Provide manufacturer's product data, storage and handling instructions for factory-fabricated units.

C. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories.
   1. Provide information as required by AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS).

D. Samples:
   1. Submit two samples of each type of standing and running trim and moldings.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Store finish carpentry items under cover, elevated above grade, and in a dry, well-ventilated area not exposed to heat or sunlight.

B. Protect from moisture damage.

C. Handle materials and products to prevent damage to edges, ends, or surfaces.

PART 2 PRODUCTS

2.01 FINISH CARPENTRY ITEMS

A. Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.

2.02 LUMBER MATERIALS

A. Hardwood Lumber: white oak species, quarter sawn, maximum moisture content of 6 percent ; with vertical grain , of quality suitable for transparent finish.

2.03 SHEET MATERIALS

A. Prefinished Paneling: Flooring product to be installed vertically where indicated on the drawings. Product as indicated on the Finish Schedule face species, European White Oak 3/8-inch thick.
   1. Dimensions: 3/8" x 6-1/2" x Random lengths up to 75".

2. Construction: Multi-Ply Engineered.

2.04 FASTENINGS

A. Adhesive for Purposes Other Than Laminate Installation: Suitable for the purpose; not containing formaldehyde or other volatile organic compounds.

2.05 FABRICATION

A. Shop assemble work for delivery to site, permitting passage through building openings.

B. When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install custom fabrications in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade indicated.

B. Set and secure materials and components in place, plumb and level.

C. Carefully scribe work abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim to conceal larger gaps.

D. Install prefinished paneling with full bed contact adhesive applied to substrate.

3.02 PREPARATION FOR SITE FINISHING

A. Set exposed fasteners. Apply wood filler in exposed fastener indentations. Sand work smooth.

3.03 TOLERANCES

A. Maximum Variation from True Position: 1/16 inch.

B. Maximum Offset from True Alignment with Abutting Materials: 1/32 inch.

END OF SECTION

SECTION 06 41 00
ARCHITECTURAL WOOD CASEWORK

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Wood casework with laminate cladding.

B. Cabinet and drawer hardware.

1.02 RELATED REQUIREMENTS

A. Section 06 20 00 Finish Carpentry - Trim and Prefinished Paneling.

B. Section 12 36 00 - Countertops.

1.03 ABBREVIATIONS AND ACRONYMS

A. AWI: Architectural Woodwork Institute.

B. HPDL: High-pressure decorative laminate.

C. MDF: Medium-density fiberboard.

D. PTB: Particleboard.

E. QCP: Quality Certification Program

F. TFL: Thermally-fused laminate.

G. WI: Woodwork Institute.

1.04 REFERENCE STANDARDS

A. ANSI A208.1 - American National Standard for Particleboard; 2022.

B. ANSI A208.2 - Medium Density Fiberboard (MDF) for Interior Applications; 2022.

C. ANSI/AWI 0400 - Factory Finishing; 2022.

D. ANSI/AWI 0620 - Finish Carpentry/Installation; 2024.

E. ANSI/AWI 0641 - Architectural Wood Casework; 2019.

F. ASTM D1037 - Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials; 2012 (Reapproved 2020).

G. AWI 200 - Care and Storage; 2018.

H. AWI 300 - Materials; 2018.

I. BHMA A156.9 - Cabinet Hardware; 2020.

J. CARB (ATCM) - Airborne Toxic Control Measure to Reduce Formaldehyde Emissions from Composite Wood Products; Current Edition.

K. ISO 4586-3 - High-Pressure Decorative Laminates (HPL, HPDL) – Sheets Based on Thermosetting Resins (Usually Called Laminates) – Part 3: Classification and Specifications for Laminates Less than 2 mm Thick and Intended for Bonding to Supporting Substrates; 2018.

1.05 ADMINISTRATIVE REQUIREMENTS

A. Coordination:

1. Coordinate schedule of climate-controlled rooms with schedule of storage of wood and wood-based materials requiring climate-controlled environments.
2. Coordinate work of this section with installation of wood blocking, wood backing, metal strapping, and other anchorage that provides casework backing and structural support.

1.06 SUBMITTALS

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

B. Product Data for casework, hardware, laminate, and finish items : Submit manufacturer's published, product descriptive data.

1. HPDL Laminates: For each type, indicate description, thickness, finish, pattern, and color.
2. Hardware: For each type of cabinet and drawer hardware.

C. Shop Drawings:
1. General: Each sheet sequentially numbered and dated.
a. Contents: Indicate project name and project address.
2. Shop Drawing Requirements:
a. Cover Sheet: Include phone numbers of general contractor and fabricator firms.
b. Aesthetic Grade: Identify specified grade and indicate compliance.
c. Performance Duty Level: Identify specified duty level and indicate compliance.
d. Identification of Materials: Include material lists or schedules.
e. Plans and Elevations: Plan and elevation views of each assembly type.
f. Detailed Sections: Dimensioned section views of each casework configuration.
g. Details: Dimensioned casework assembly details with material thicknesses.
1) Include laminate-clad panels, panel cores, and concealed casework components.
3. Detailed Section: Dimensioned section views of each casework configuration.
a. Include appropriate locations for casework wall anchorage.

D. Samples:
1. Samples, Laminate-Clad Panels: For each laminate-clad type, submit two, laminate-clad sample panels; size: 8 by 8 inches, minimum; thickness: 3/4 inch.
2. Samples, Edgebanding:
a. Edgebanding: For each edgebanding type, submit one sample strip, one sample strip, two sample strips two sample strips, 6 inches 6 inches long, minimum , minimum.
3. Samples, Laminates: For each laminate type, submit two samples for each specified color.
4. Samples, Hardware: For each hinge and pull type, submit one sample, full-size, indicating specified finish.

E. Fabricator's qualification statement.

F. Installer's qualification statement.

G. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories.

1.07 QUALITY ASSURANCE

A. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of documented experience.
1. Casework fabricator with at least one project in past five years with value of casework within 40 percent of casework cost for this project.
2. Single Source Responsibility: Provide fabrication and installation from single casework fabricator.

1.08 DELIVERY, STORAGE, AND HANDLING

A. Store products prior to installation on flat, level, clean surfaces; elevate products above floors and protect from sunlight.

B. Store products in interior rooms with completed wet work and overhead work.

C. Relative Humidity Conditions for Storing Wood and Wood-Based Core Products:
1. Maintain relative humidity between 30 and 55 percent.

D. For products other than wood and wood-based products, store and handle in accordance with fabricator's documented instructions.

E. Handle materials and products to prevent damage to edges, ends, or surfaces.

1.09 FIELD CONDITIONS

A. Ambient Conditions for Acclimation, Installation, and Post-Installation of Wood-Based Products:
   1. Acclimation Period Prior to Installation: 72 hours minimum, inside installation environment.
   2. Temperature Conditions During Installation and Post-Installation: Maintain temperature between 60 degrees F and 90 degrees F.
   3. Relative Humidity Conditions During Acclimation, Installation, and Post-Installation: Maintain relative humidity between 30 and 55 percent.

B. Do not deliver or install cabinets until building is enclosed, wet-work is complete, and HVAC system is operating and maintaining temperature and relative humidity at levels planned for building occupants during the remainder of the construction period.

C. Field Measurements: Where cabinets are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication, and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
   1. Locate concealed framing, blocking, and reinforcements that support cabinets by field measurements before being enclosed/concealed by construction, and indicate measurements on Shop Drawings.

D. Established Dimensions: Where cabinets are indicated to fit to other construction, establish dimensions for areas where cabinets are to fit. Provide allowance for trimming at site, and coordinate construction to ensure that actual dimensions correspond to established dimensions.

PART 2 PRODUCTS

2.01 ARCHITECTURAL WOOD CASEWORK

A. Provide casework and casework components in sizes and profiles as indicated on drawings.

B. Adjustable Shelves, Number of Shelves Per Cabinet Unit:
   1. Base Cabinets: As indicated on drawings.
   2. Wall Cabinets: As indicated on drawings.

C. Scribed Fillers:
   1. Finish and Materials: Same materials and finish as exposed surfaces.

2.02 PERFORMANCE REQUIREMENTS

A. Architectural Woodwork Institute (AWI) Performance Requirements:
   1. Comply with AWI 300, ANSI/AWI 0641, ANSI/AWI 0400, and ANSI/AWI 0620 as applicable for specified casework finish, aesthetic grade, and performance duty level.
      a. Aesthetic Grade: Custom.
      b. Product Performance Duty Level: Duty Level 3.
   2. Panel and Material Thicknesses: Provide panels and materials as required to meet specified performance duty level, subject to minimum thickness requirements of AWI 300 and ANSI/AWI 0641 and flatness requirements indicated below.
   3. Panel Flatness: Provide panels with maximum variation from flat in 12 inches as measured diagonally across panel.
      a. Custom Grade: Plus or minus 0.047 inch maximum.
   4. Cabinet Door Flatness:
      a. Provide cabinet doors with 1/8 inch maximum variation from flat.

2.03 WOOD CASEWORK WITH LAMINATE CLADDING

A. Casework Construction:
   1. Frameless Cabinet and Door Interface: Flush overlay.
   2. Door and Drawer Front Profile: Flush.
   3. Reveal Dimensions: Comply with performance requirements.

B. Wood Drawer Boxes with Laminate Cladding:
   1. Cladding: HPDL or TFL.

C. Custom Grade - Laminate-Clad Wood Casework:
   1. Exposed Exterior Surfaces, Panels to Receive Laminate Cladding:
      a. Comply with specified performance requirements.
   2. Exposed Interior Surfaces at Door and Drawer Fronts, Panels Receiving Laminate Cladding:
      a. Same laminate materials and thicknesses as exposed exterior surfaces.
         1) Color to match exposed interior or face.
   3. Exposed Interior Surfaces Except Door and Drawer Front Surfaces:
      a. HPDL: Compatible laminate in color to exposed exterior surfaces.
   4. Semi-Exposed Surfaces; Panels to Receive Laminate Cladding:
      a. Fabricator's Option:
         1) HPDL Panels; Surface Finish: As indicated on drawings.
         2) TFL Panels; Surface Finish: As indicated on drawings.

D. Edgebanding Applications for Laminate-Clad Wood Casework:
   1. Drawer Box Top Edges:
      a. Visible Cores: Not permitted.

E. Edgebanding Materials for Laminate-Clad Wood Casework:
   1. Thickness: 1 mm.
   2. PVC: Well matched to exposed face.

2.04 EDGE TREATMENT APPLICATIONS

A. Front Edges of Frameless Cabinets:
   1. Provide edgebanding.

B. Top Edges of Cabinets:
   1. Comply with specified performance requirements.

C. Bottom Edges of Wall Cabinet Ends and Light Valances:
   1. Comply with specified performance requirements.

D. Hinged Door Edges:
   1. Provide edgebanding on all four edges except for solid wood doors.

E. Drawer Front and Drawer False Front Edges:
   1. Provide edgebanding on all .

F. Edges of Solid Wood Panel Drawer Boxes:
   1. Comply with specified performance requirements.

G. Adjustable Shelf Edges, Semi-Exposed Surfaces:
   1. Edgebanding to match shelf.

2.05 HPDL-CLAD PANELS

A. Description: Panels consisting of High-Pressure Decorative Laminate (HPDL) faces applied to cores; panel layup with face ply, back ply, and core of either single ply or odd number of inner plies, to produce balanced construction panel.
   1. Panels subject to size limitations, minimum thickness requirements, and fabrication tolerances of specified aesthetic grade and performance duty level in accordance with AWI 300 and ANSI/AWI 0641.

B. High-Pressure Decorative Laminate (HPDL): Sheet consisting of fibrous material impregnated with thermosetting resins; bonded by high-pressure process.

C. HPDL Laminates Less than 0.08 inch Thick: Comply with ISO 4586-3.
   1. Horizontal Grades:
      a. HPDL HGS.
   2. Vertical Grades:

a. HPDL VGS.

3. Exposed Backer Materials:
   a. Same materials, thickness and color as laminate face.
4. Concealed Backer Materials:
   a. Laminate materials as required for balanced construction panel and recommended by laminate manufacturer for application.
5. Products:
   a. Refer to finish schedule on the drawings for products.

D. Panel Cores:
   1. Particleboard (PTB).
   2. Medium Density Fiberboard Core (MDF).

2.06 THERMALLY FUSED LAMINATE PANELS

A. Thermally Fused Laminate (TFL): Melamine-resin-saturated decorative papers; for fusion to composite wood substrates under heat and pressure.

B. Backs:
   1. Same materials, thicknesses, and colors as laminate faces.

C. Panel Cores:
   1. Particleboard (PTB).
   2. Medium Density Fiberboard Core (MDF).

D. Exposed Interior Surfaces, Color: As indicated on drawings.

E. Semi-Exposed Surfaces, Color: Match exposed surfaces.

2.07 PANEL CORES

A. Moisture-Resistant Cores: Provide color-tinting or other distinguishing markings to indicate cores with moisture-resistant properties.

B. Particleboard (PTB):
   1. Description: Composite panel composed of cellulosic particles, additives, and bonding system; comply with ANSI A208.1.
   2. Grade:
      a. M-2.
   3. ANSI A208.1, High Density, Grade M-2, 40 - 44 lbs/ft³ (640–700 kg/m³).
   4. Thickness: 3/4 inch.
   5. Moisture-Resistant Category: MR30.

C. Medium Density Fiberboard (MDF):
   1. Description: Composite panel composed of cellulosic fibers, additives, and bonding system cured under heat and pressure; comply with ANSI A208.2.
   2. Grade: 155.
   3. Panel Thickness: 3/4 inch.
   4. Moisture Resistance: MR30; color-tinted to indicate moisture-resistance core.
   5. No-Added Formaldehyde Based (NAUF) Resins: Comply with CARB (ATCM).

2.08 CONCEALED CABINET BASE COMPONENTS

A. Cabinet Base Toe-Kick Subfronts:
   1. Materials and Size: Fabricator's choice subject to requirements of ANSI/AWI 0641.
   2. Height Above Subfloor: As indicated on drawings.

B. Cabinet Base Blocking and Stretchers:
   1. Materials and Size: Fabricator's choice subject to requirements of ANSI/AWI 0641.

C. Cabinet Base Sleepers:
   1. Materials and Size: Fabricator's choice subject to requirements of ANSI/AWI 0641.

2.09 WOOD AND WOOD-BASED MATERIALS

A. AWI 200 Wood Moisture Content Requirements:
   1. Climate Zone 2: Between 6 and 10 percent.

B. AWI 300 General Requirements for Wood.
   1. Provide wood that is sound, free of decay, shake, pith, wane, and warp; plain-sawn unless otherwise indicated.
   2. Provide wood in accordance with AWI 300.

C. Moisture-Resistant Wood: Where moisture-resistant wood is specified or indicated on drawings for cabinet base components, provide wood with thickness swelling of not more than 5 percent when tested in accordance with ASTM D1037.

2.10 CABINET AND DRAWER HARDWARE

A. Hinges, Number of Hinges for Each Cabinet Door:
   1. Comply with specified performance requirements.

B. Hinges, Self-Closing, Integrated Damper Hinges:
   1. Description: Self-closing hinges with integrated damper mechanisms.
   2. Comply with specified performance requirements.

C. Cabinet Door and Drawer Pulls: Provide one at each door and drawer.
   1. Description: Back-mounted pulls.
   2. Provide one pull for each drawer 24 inches or less in width.
   3. Provide two pulls for each drawer over 24 inches in width.
   4. Comply with BHMA A156.9, B02011.
   5. Design: As indicated on drawings.

D. Shelf Rests:
   1. Description: Metal shelf rests for installation into prepared holes in substrate.
   2. Comply with BHMA A156.9, B04013.

E. Drawer Slides: Provide at each drawer.
   1. Description: Hardware units that suspend drawers and provide controlled drawer sliding.
   2. Comply with BHMA A156.9, Heavy Duty Grade 1HD-100.
   3. Features: Self-closing and soft-closing.
   4. Mounting: Side-mounted self-closing.
   5. Travel: Full extension.

2.11 CASEWORK ACCESSORY COMPONENTS

2.12 ACCESSORIES

A. Fasteners: Size and type to suit application.

B. Concealed Joint Fasteners: Threaded steel.

C. Bolts, Nuts, Washers, Lags, Pins, and Screws: Of size and type to suit application; chrome-plated finish in concealed locations and stainless steel or chrome-plated finish in exposed locations.

D. Adhesives: Type recommended by fabricator to suit application.

2.13 FABRICATION

A. Shop-fabricate casework to dimensions, profiles, and details indicated on drawings.

B. Fabricate to maximum extents plausible, including doors, drawers, and hardware; fabricate units in sizes transportable through building openings.

C. When necessary to cut and fit on site, provide materials with sufficient allowance for cutting.

D. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arises. Locate counter butt joints minimum 3 feet from sink cut-outs.

E. Matching Wood Grain: Comply with requirements of quality standard for specified Grade and as follows:

F. Provide cutouts for plumbing fixtures; verify locations of cutouts from on-site dimensions. Sand and seal cut edges.

G. Edgebanding: Apply where specified; do not use more than one piece for any single length.

H. T-Mold Edgebanding:
   1. Substrate Grooving: Rout a precise, machine-guided centerline kerf slot matching the exact depth of the T-mold barb.
   2. Corner Profiles: On outside radii, 90-degree corners must be smooth, non-blanching, and notched cleanly at the barb to ensure the decorative cap face remains perfectly flat and tight to the panel core.
   3. Seams: Not permitted

I. Hardware: Install hardware in accordance with hardware manufacturer's written instructions; use fasteners supplied by hardware manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify casework and materials required for installation have been delivered, handled and stored as specified.

B. Verify wood blocking that provides casework backing is installed as indicated on drawings.

C. Verify location and sizes of rough-in plumbing and rough-in electrical associated with work of this section.

D. Verify location and sizes of cutouts for appliances and special equipment to be mounted in or adjacent to casework.

3.02 PREPARATION

A. Acclimate casework to environments indicated for installation.

3.03 PREPARATION

A. Before installation, condition cabinets to humidity conditions in installation areas for not less than 72 hours.

3.04 INSTALLATION

A. Install and secure work of this section in accordance with specified performance requirements.

B. Install work of this section rigid, plumb, and level and in accordance with fabricator's documented instructions; secure casework as indicated on drawings.
   1. Align and secure adjoining cabinet units with fasteners in concealed locations.

C. Base and Wall Cabinet Anchorage Support Construction:

D. Install scribe fillers to close gaps between casework and adjacent walls.

E. Assemble cabinets and complete fabrication at Project site to extent that it was not completed in the shop.

F. Anchor cabinets to anchors or blocking built in or directly attached to substrates. Secure with wafer-head cabinet installation screws.

G. Install cabinets level, plumb, and true in line to a tolerance of 1/8 inch in 96 inches using concealed shims.
   1. Scribe and cut cabinets to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts.
   2. Install cabinets without distortion so doors and drawers fit openings and are accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation. Complete installation of hardware and accessory items as indicated.

H. Fasten wall cabinets through back, near top and bottom, and at ends not more than 16 inches o.c.

3.05 TOLERANCES

A. Maximum Variation From Plumb: 1/8 inch in 96 inches.

B. Maximum Variation From Level: 1/8 inch in 96 inches.

3.06 ADJUSTING

A. Repair damaged and defective cabinets to eliminate functional and visual defects.

B. Adjust hardware for smooth operation in accordance with hardware manufacturer's documented instructions.

3.07 CLEANING

A. See Section 01 70 00 - Execution and Closeout Requirements for additional requirements.

B. Clean exposed surfaces of casework, shelving, and hardware.

3.08 PROTECTION

A. Protect installed casework from subsequent construction operations.

END OF SECTION

SECTION 06 64 00
PLASTIC PANELING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Plastic panel walls assemblies.

1.02 REFERENCE STANDARDS

A. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2026a.

B. ASTM G21 - Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi; 2015, with Editorial Revision (2021).

1.03 ADMINISTRATIVE REQUIREMENTS

A. Coordination: Coordinate liner panel installation requirements with layout of stud framing supporting members.

1.04 SUBMITTALS

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

B. Product Data: For each panel and trim type.

C. Shop Drawings:
   1. For each wall paneling layout, indicate:
      a. Elevations: Dimensioned locations of panels, penetrations, and joint locations. Include field measurements indicating extents of paneling.
   2. Details: Include panel-to-trim connections.

D. Samples: For each wall panel type, two samples, 6 inches by 6 inches in size, indicating specified color and texture.

E. Manufacturer's Instructions: For each panel type and associated trim, provide installation instructions.

F. Maintenance Data: Panel maintenance and cleaning recommendations.

G. Executed warranty.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to site in manufacturer's original, unopened packaging, with labels clearly identifying product name and manufacturer.

B. Store products in clean, dry, interior areas in accordance with manufacturer's instructions.

C. Store plastic panels and trim flat.

1.06 FIELD CONDITIONS

A. Ambient Conditions for Installation: When ambient temperatures are below 40 degrees F, warm space to 60 degrees F minimum. Maintain temperature for 24 hours before, during, and after installation.

B. Ambient Conditions for Installation: When ambient temperatures are above 70 degrees F, cool space to 60 degrees F. Maintain temperature for 24 hours before, during, and after installation.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Plastic Paneling:
   1. As indicated on the drawings.
   2. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 PLASTIC PANELING

A. Glass-Fiber-Reinforced Plastic Paneling: Gelcoat-finished, glass-fiber-reinforced plastic panels complying with ASTM D5319.

B. Surface Burning Requirements, Interior Use: Flame spread index of 25 or less and smoke-development index of 450 or less; Class A classification when tested in accordance with ASTM E84.

C. Fungi Resistance: No visible growth, when tested in accordance with ASTM G21.

2.03 ACCESSORIES

A. Trim, moldings, and sealants:
   1. Manufacturer's standard, as indicated on the drawings.

B. Fasteners:
   1. Concealed Mounting Splines: Continuous, H-shaped aluminum extrusions designed to fit into grooves routed in edges of factory-laminated panels and to be fastened to substrate.
   2. Threaded Fasteners: Type and size as recommended by paneling manufacturer for substrate, application, and corrosion risk.

C. Adhesives: Type recommended by panel manufacturer for application; not containing formaldehyde or volatile organic compounds.

D. Joint Sealants: Type recommended by paneling manufacturer for application.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify substrates are prepared to receive plastic paneling.
   1. Corners: Plumb and straight.
   2. Surfaces: Smooth, sound, and uniform.
   3. Nails or Screw Fasteners: Countersunk.
   4. Joints and Cracks: Filled flush and smooth with adjoining surfaces.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

C. Verify mechanical, electrical, and other building components affecting work of this section are placed and ready to receive work of this section.

3.02 PREPARATION

A. Surface Preparation: Clean substrate surfaces prior to installing paneling.

3.03 INSTALLATION - GENERAL

A. Maintain manufacturer recommended gap tolerances between panels and adjacent abutments.

B. Field-cut panels in accordance with manufacturer's written instructions. Make straight and square cuts; do not damage panels.

3.04 INSTALLATION - PLASTIC PANEL WALLS

A. Install panels and trim in accordance with manufacturer's written instructions.

B. Install panel layout as indicated on approved shop drawings.

C. Install wall panels plumb within specified tolerances.

D. Install sealant to prevent water intrusion in accordance manufacturer's written instructions.

3.05 TOLERANCES

A. Maximum Variation from True Position: 1/4 inch.

B. Maximum Variation from Plumb: 1/4 inch in 10 feet.

C. Maximum Variation from Level: 1/4 inch in 10 feet.

3.06 CLEANING

A. Clean exposed surfaces of panels and trim in accordance with manufacturer's instructions.

3.07 PROTECTION

A. Protect installed plastic paneling from subsequent construction operations.

END OF SECTION

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SECTION 06 64 16
SOLID SURFACE WALL PANELS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Solid surface wall panels assemblies.

1.02 REFERENCE STANDARDS

A. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2026a.

B. ASTM F593 - Standard Specification for Stainless Steel Bolts, Hex Cap Screws, and Studs; 2024.

C. ASTM G21 - Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi; 2015, with Editorial Revision (2021).

1.03 ADMINISTRATIVE REQUIREMENTS

A. Coordination: Coordinate liner panel installation requirements with layout of stud framing and furring supporting members.

1.04 SUBMITTALS

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

B. Product Data: For each panel and trim type.

C. Shop Drawings:
   1. For each wall paneling layout, indicate:
      a. Elevations: Dimensioned locations of panels and penetrations. Include field measurements indicating extents of paneling.
   2. Details: Include panel-to-trim connections.

D. Samples: For each wall panel type, two samples, 6 inches by 6 inches in size, indicating specified color and texture.

E. Manufacturer's Instructions: For each panel type and associated trim, provide installation instructions.

F. Maintenance Data: Panel maintenance and cleaning recommendations.

G. Executed warranty.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to site in manufacturer's original, unopened packaging, with labels clearly identifying product name and manufacturer.

B. Store products in clean, dry, interior areas in accordance with manufacturer's instructions.

C. Store plastic panels and trim flat.

1.06 FIELD CONDITIONS

A. Ambient Field-Cutting Conditions: Before field-cutting panels in temperatures below 40 degrees F, warm space to 60 degrees F minimum. Maintain temperature for 24 hours before, during, and after field-cutting.

B. Ambient Conditions for Installation: When ambient temperatures are below 40 degrees F, warm space to 60 degrees F minimum. Maintain temperature for 24 hours before, during, and after installation.

C. Ambient Conditions for Installation: When ambient temperatures are above 70 degrees F, cool space to 60 degrees F. Maintain temperature for 24 hours before, during, and after installation.

1.07 WARRANTY

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

B. Manufacturer Warranty: Provide 10-year manufacturer warranty for products free from manufacturing defects. Complete forms in Owner's name and register with manufacturer.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Solid Surface Wall Paneling:
   1. Product as indicated on the drawings.
   2. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 SOLID SURFACE SHEET MATERIAL

A. Composition: Acrylic resins, fire-retardant mineral fillers, and proprietary coloring agents. Through-the-body color for full thickness of sheet material.

B. Surface Burning Requirements, Interior Use: Flame spread index of 25 or less and smoke-development index of 450 or less; Class A classification when tested in accordance with ASTM E84.

C. Fungi Resistance: No visible growth, when tested in accordance with ASTM G21.

2.03 PHYSICAL CHARACTERISTICS:

A. Thermal Expansion Coefficient: 1.5×10^{-5} in./in.^{o}F; ASTM D 696.

B. Hardness (Barcol Impressor): 62; ASTM D 2583.

C. Impact Resistance: 78 in. drop with no fracture; NEMA LD-3, Method 3.8.

D. Izod Impact: 0.24 (ft-lb.)/in.; ASTM D 256, Method A.

E. Light Resistance - Xenon: No effect; NEMA LD-3, Method 3.3.

F. Stain Resistance: Pass; ANSI Z 124.3, modified.

G. Wear and Cleanability: Pass; ANSI Z 124.3.

H. Fungi Resistance: Pass; ASTM G 21.

I. Bacterial Resistance: Pass; ASTM G 22.

J. Boiling Water Resistance: No effect; NEMA LD-3, Method 3.5.

K. High Temperature Resistance: No effect; NEMA LD-3, Method 3.6.

L. Weatherability: Delta E less than 5; ASTM G 155.

M. Moisture Absorption: Less than 0.25 percent; ASTM D 570, long term.

N. Specific Gravity: 1.78 gram/cm^3; ASTM D 792.

O. Approximate Weight: 2.2 lb./ft^2.

2.04 ACCESSORIES

A. Trim, moldings, and sealants:
   1. Manufacturer's standard, as indicated on the drawings.

B. Fasteners:
   1. Solid Surfacing Moldings: Same material as wall cladding panels.
   2. Seam Adhesive: Methacrylate-based adhesive for chemically bonding solid surfacing seams. Color complementary to solid surfacing panels.
   3. Elastomeric Sealant: Mildew-resistant silicone sealant for filling gaps between wall panels and at terminating substrates at tubs, showers, and similar wet environment applications. Complies with ASTM C 920, Type S (single component), Grade NS (nonsag).
      a. Product: Acceptable to wall panels manufacturer.
      b. Color:
         1) Complementary to solid surfacing color.
         2) Selected from sealant manufacturer’s standard offerings.

4. Construction Adhesive: Wall panels manufacturer's recommended silicone-based construction adhesive for attachment of wall panels to supporting substrates, attachment of moldings, and other applications according to manufacturer's published installation instructions.
5. Concealed Mounting Splines: Continuous, H-shaped aluminum extrusions designed to fit into grooves routed in edges of factory-laminated panels and to be fastened to substrate.
6. Threaded Fasteners: Type and size as recommended by paneling manufacturer for substrate, application, and corrosion risk.
7. High Corrosion Risk: Stainless steel ASTM F593 Type 316.

C. Adhesives: Type recommended by panel manufacturer for application; not containing formaldehyde or volatile organic compounds.

D. Joint Sealants: Type recommended by paneling manufacturer for application.

2.05 FABRICATION

A. Fabricate components in shop, to greatest extent practicable, in sizes and shapes indicated according to approved shop drawings and manufacturer's published fabrication requirements.

B. Form joint seams between solid surfacing components with specified seam adhesive. Completed joints inconspicuous in appearance and without voids.

C. Provide holes and cutouts indicated on approved shop drawings. Rout cutouts and complete by sanding all edges smooth.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify field measurements.

B. Verify substrates are prepared to receive plastic paneling.
1. Corners: Plumb and straight.
2. Surfaces: Smooth, sound, and uniform.
3. Nails or Screw Fasteners: Countersunk.
4. Joints and Cracks: Filled flush and smooth with adjoining surfaces.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

D. Verify mechanical, electrical, and other building components affecting work of this section are placed and ready to receive work of this section.

3.02 PREPARATION

A. Surface Preparation: Clean substrate surfaces prior to installing paneling.

3.03 INSTALLATION - GENERAL

A. Maintain manufacturer recommended gap tolerances between panels and adjacent abutments.

B. Field-cut panels in accordance with manufacturer's written instructions. Make straight and square cuts; do not damage panels.

3.04 WALL CLADDING PANELS INSTALLATION

A. Install wall cladding panels plumb, level, and true according to approved shop drawings and manufacturer's published installation instructions. Shim as required during installation process. Use woodworking and specialized fabrication tools acceptable to manufacturer.

B. Rout all wall cladding panels to size; sawcuts are not permissible. Cutouts must also be routed with eased edges.

C. Provide eased panel edges where specified silicone sealant is required to fill gap between panels.

D. Attach wall cladding panels to substrate with specified construction adhesive. Apply construction adhesive as 1/4 inch beads in locations and spacing according to manufacturer's

published installation instructions. Provide temporary bracing until adhesive has to set to proper strength. Promptly remove excess adhesive.

E. Form wall cladding joint seams for multiple panels with specified seam adhesive. Seams in locations shown on approved shop drawings and acceptable to manufacturer. Promptly remove excess adhesive.

F. Provide specified silicone sealant to fill gaps in the following locations and as required by manufacturer:
   1. Wall panel joints indicated to receive silicone sealant.
   2. At inside corners.
   3. Between finished floor and ceiling for full height wall cladding.
   4. Not greater than 12 feet on center for any wall cladding length or height.

G. Wall-mounted accessories must be completed supported by substrate wall framing, not wall cladding panels.

H. Install solid surfacing moldings with specified construction adhesive. Promptly remove excess adhesive.

3.05 WET WALL CLADDING PANELS INSTALLATION

A. Install wall cladding panels plumb, level, and true according to approved shop drawings and manufacturer's published installation instructions. Use woodworking and specialized fabrication tools acceptable to manufacturer.

B. Rout all wall cladding panels to size; sawcuts are not permissible. Cutouts must also be routed.

C. Provide eased panel edges where specified silicone sealant is required to fill gap between panels.

D. Attach wall cladding panels to substrate with specified construction adhesive. Apply construction adhesive as 1/4 inch beads in locations and spacing according to manufacturer's published installation instructions. Promptly remove excess adhesive.

E. Form wall cladding joint seams for multiple panels with specified joint adhesive. Seams in locations shown on approved shop drawings and acceptable to manufacturer. Promptly remove excess adhesive.

F. Provide specified silicone sealant to fill gaps in the following locations and as required by manufacturer:
   1. Wall panel joints indicated to receive silicone sealant.
   2. At inside corners.
   3. At interface with tub or shower pan.
   4. At interface with tiled shower base.
   5. Between finished floor and ceiling for full height wall cladding.
   6. Not greater than 12 feet on center for any wall cladding length or height.

G. Wall-mounted accessories must be completed supported by substrate wall framing, not wall cladding panels.

H. Install solid surfacing moldings with specified construction adhesive. Promptly remove excess adhesive.

3.06 TOLERANCES

A. Maximum Variation from True Position: 1/4 inch.

B. Maximum Variation from Plumb: 1/4 inch in 10 feet.

C. Maximum Variation from Level: 1/4 inch in 10 feet.

3.07 CLEANING

A. Clean exposed surfaces of panels and trim in accordance with manufacturer's instructions.

3.08 PROTECTION

A. Protect installed plastic paneling from subsequent construction operations.

END OF SECTION

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SECTION 06 83 16
FIBERGLASS REINFORCED PANELING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Fiberglass reinforced plastic panels.

B. Trim.

1.02 REFERENCE STANDARDS

A. ASTM D256 - Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics; 2026.

B. ASTM D3273 - Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber; 2021.

C. ASTM D5319 - Standard Specification for Glass-Fiber Reinforced Polyester Wall and Ceiling Panels; 2022.

D. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2026a.

E. FDA Food Code - Chapter 6 - Physical Facilities; Current Edition.

F. FM 4880 - Examination Standard for Class 1 Fire Rating of Building Panels or Interior Finish Materials; 2022.

G. ISO 846 - Plastics - Evaluation of the Action of Microorganisms; 2019.

H. ISO 2812-1 - Paints and Varnishes -- Determination of Resistance to Liquids -- Part 1: Immersion in Liquids Other than Water; 2017.

1.03 SUBMITTALS

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

B. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Store panels flat, indoors, on a clean, dry surface. Remove packaging and allow panels to acclimate to room temperature for 48 hours prior to installation.

PART 2 PRODUCTS

2.01 PANEL SYSTEMS

A. Wall Panels:
   1. Panel Size: 4 by 8 feet.
   2. Panel Thickness: 0.10 inch.
   3. Surface Design: Embossed.
   4. Color: White.
   5. Attachment Method: Adhesive only, sealant joints, no trim.

2.02 MATERIALS

A. Panels: Fiberglass reinforced plastic (FRP), complying with ASTM D5319.
   1. Surface Burning Characteristics: Maximum flame spread index of 25 and smoke developed index of 450; when system tested in accordance with ASTM E84.
   2. Class 1 fire rated when tested in accordance with FM 4880.
   3. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.
   4. Impact Strength: Greater than 6 ft lb force per inch, when tested in accordance with ASTM D256.
   5. Surface Characteristics and Cleanability: Provide products that are smooth, durable, and easily cleanable, in compliance with FDA Food Code, Chapter 6 - Physical Facilities.

6. Chemical Cleanability: Excellent chemical resistance to common cleaners and detergents when tested in accordance with ISO 2812-1.
7. Biological Resistance: Rating of 0, when tested in accordance with ISO 846.

B. Trim: Vinyl; color coordinating with panel.

C. Fasteners: Nylon rivets.

D. Adhesive: Type recommended by panel manufacturer.

E. Sealant: Type recommended by panel manufacturer; white.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions and substrate flatness before starting work.

B. Verify that substrate conditions are ready to receive the work of this section.

3.02 INSTALLATION - WALLS

A. Install panels in accordance with manufacturer's instructions.

B. Cut and drill panels with carbide tipped saw blades, drill bits, or snips.

C. Pre-drill fastener holes in panels, 1/8 inch greater in diameter than fastener, spaced as indicated by panel manufacturer.

D. Apply adhesive to the back side of the panel using trowel as recommended by adhesive manufacturer.

E. Apply panels to wall with seams plumb and pattern aligned with adjoining panels.

F. Install panels with manufacturer's recommended gap for panel field and corner joints.

G. Drive fasteners to provide snug fit, and do not over-tighten.

H. Place trim on panel before fastening edges, as required.

I. Fill channels in trim with sealant before attaching to panel.

J. Install trim with adhesive and screws or nails, as required.

K. Seal gaps at floor, ceiling, and between panels with applicable sealant to prevent moisture intrusion.

L. Remove excess sealant after paneling is installed and prior to curing.

END OF SECTION

SECTION 07 46 43.13
ENGINEERED WOOD SIDING

GENERAL

1.01 SUMMARY

A. Section Includes:
   1. Engineered wood siding.
      a. Panel and lap siding.
      b. Trim and fascia.
   2. Accessories.

1.02 DEFINITIONS

A. Treated Engineered Wood: Engineered wood products manufactured for exterior use treated with manufacturer's proprietary process to resist fungal decay and termite damage.

1.03 COORDINATION

A. Coordinate engineered wood siding installation with flashings, trim, and construction of other adjoining work to ensure proper sequencing, construction progress, and to provide a leakproof, secure, and noncorrosive installation.

1.04 ACTION SUBMITTALS

A. Product Data: For each type of product and component included in engineered wood siding system. Include the following:
   1. Construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of product and accessory included in siding system.
   2. Installation methods, including nailing patterns.
   3. Siding manufacturer's requirements for products to be installed by others.
   4. Maintenance and periodic inspection recommendations.

B. Shop Drawings: For engineered wood siding.
   1. Include plans, elevations, sections, and attachment details.
   2. Detail expansion joints, material joints, angle changes, flashings, and abutment to adjacent Work.

C. Samples for Verification: For each type, color, texture, and pattern required.
   1. 6-inch- long Sample of engineered wood siding and trim.

1.05 CLOSEOUT SUBMITTALS

A. Maintenance Data: For each type of product, including related accessories, to include in maintenance manuals.

1.06 QUALITY ASSURANCE

A. Installer Qualifications: Installers trained by siding manufacturer.

1.07 MOCKUPS

A. Provide components for construction of a mock-up wall as indicated in Section 01 40 00 Quality Requirements and as indicated on the drawings.

B. Locate as indicated on drawings.

C. Provide all materials required for the mock-up wall.

D. Refer to Section 01 40 00 Quality Requirements for addtional information.

E. Mock-up may not remain as part of the Work.

1.08 DELIVERY, STORAGE, AND HANDLING

A. Deliver components and other manufactured items so as not to be damaged or deformed. Package components for protection during transportation and handling with manufacturer's name and identification of products.

B. Unload, store, and erect components in a manner to prevent bending, warping, twisting, and surface damage. Maintain slip sheet until piece is being prepared for installation.

C. Store components on flat surfaces clear of the ground. Store under roof or covered with suitable weathertight and ventilated covering, and in accordance with manufacturers' written instructions.

1.09 WARRANTY

A. Manufacturer's Trim and Siding Limited Warranty: Manufacturer agrees to repair or replace components of engineered wood siding against substrate damage within specified warranty period.
   1. Substrate damage is defined as deterioration, buckling, and overlay issues caused by manufacturing defects or termite damage.
   2. Hail damage is defined as a crack or chip in the surface overlay, or product substrate dents exceeding 3/8 inch in length or diameter and is caused by hail.
   3. Limited Warranty Period: 50 years from date of installation and written to Owner on date of Substantial Completion.

B. Manufacturer's Trim and Siding Prefinish Limited Warranty: Manufacturer agrees to repair or replace components of prefinished engineered wood siding against finish and substrate damage within specified warranty period.
   1. Substrate damage is defined as deterioration, buckling, or overlay issues caused by manufacturing defects or termite damage.
   2. Hail damage is defined as cracks or chips in the surface overlay or dent in the substrate of the product that exceeds 3/8 inch in length or diameter, and is caused by hail.
   3. Finish damage is defined as, under normal conditions and use, discoloring due to chalking, peeling, blisters, cracks; erosion to the extent of exposing the substrate; or yellowing or color fade change from light exposure not to exceed 5 Delta E CMC (2:1).
   4. Limited Warranty Period for Substrate: 50 years from date of installation and communicated to Owner on date of Substantial Completion.
   5. Limited Warranty Period for Finish: 15 years from date of installation and communicated to Owner on date of Substantial Completion.

C. Manufacturer's Accessories and Non-Standard Applications Limited Warranty: Manufacturer agrees to repair or replace components of manufacturer's accessories and when used in approved non-standard applications against substrate and finish damage within specified warranty period.
   1. Substrate damage is defined as deterioration, buckling, or overlay issues caused by manufacturing defects or termite damage.
   2. Hail damage is defined as cracks or chips in the surface overlay or dent in the substrate of the product that exceeds 3/8 inch in length or diameter, and is caused by hail.
   3. Finish damage is defined as, under normal conditions and use, discoloring due to chalking, peeling, blisters, cracks; erosion to the extent of exposing the substrate; or yellowing or color fade change from light exposure not to exceed 5 Delta E CMC (2:1).
   4. Limited Warranty Period for Substrate and Finish: 10 years from date of installation and communicated to Owner on date of Substantial Completion.

PART 2 - PRODUCTS

2.01 SOURCE LIMITATIONS

A. Provide components and materials specified in this Section from single manufacturer for a complete and compatible assembly.

2.02 PERFORMANCE REQUIREMENTS

A. Structural Performance: Provide engineered wood siding system tested to APA PS2 and PRP 108, in compliance with IBC Section 2308.9.3, Table 2308.9.3(5), and certified to be without permanent deformation or failure of structural members in accordance with design wind

velocities for Project geographic location and probability of occurrence based on data from wind velocity maps provided in ASCE 7 and as approved by authorities having jurisdiction (AHJ).
1. Design Loads: As indicated on Drawings.

B. Structural: Test in accordance with FL TAS 202 as follows:
1. When tested at positive and negative wind-load design pressures, assemblies do not evidence deflection exceeding specified limits.
2. When tested at 150 percent of positive and negative wind-load design pressures, assemblies, including anchorage, do not evidence material failures, structural distress, or permanent deformation of main framing members exceeding 0.2 percent of span.
3. Test Durations: As required by design wind velocity, but not less than 10 seconds.

C. Fire-Resistance Performance: Comply with ASTM E119 for testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency acceptable to AHJ.
1. Surface-Burning Characteristics: Provide engineered wood siding system with a Class C flame-spread index of 76 to 200 or less and a smoke-developed index of 0 to 450 or less when tested in accordance with ASTM E84 and UL 723.

D. Thermal Movement Performance: Allow for thermal movements from ambient and surface temperature changes to prevent buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects.

E. Composite Wood Products: Products to be made using ultra-low-emitting formaldehyde resins as defined in the California Air Resources Board's "Airborne Toxic Control Measure to Reduce Formaldehyde Emissions from Composite Wood Products" or made with no added formaldehyde.

F. Composite Wood Products: Products to be made without added urea formaldehyde.

2.03 ENGINEERED WOOD SIDING

A. Basis-of-Design Product: Subject to compliance with requirements, provide Louisiana-Pacific Corporation; LP ExpertFinish Trim & Siding or comparable product:
1. Manufacturer's Representative: Brandon Hofstetter, Brandon.Hofstetter@dksiding.com, 314-960-9752.
2. Substitutions: See Section 01 60 00-Product Requirements.

B. Treated Engineered Wood Lap Siding: Exterior-grade, resin-saturated, paper overlay laminated to EPA-registered zinc-borate-treated engineered wood siding. Exposed edges sealed for moisture resistance. Manufacturer's acrylic finish.
1. Basis-of-Design Product: Subject to compliance with requirements, provide Louisiana-Pacific Corporation; LP ExpertFinish Lap Siding,76 Series or comparable product.
2. Thickness: 0.418 inch total thickness.
3. Width: 7.84 inches .
4. Length: Select lengths to minimize butt joints.
5. Color: As indicated on the drawings.
6. Texture: Smooth finish .

C. Treated Engineered Wood Trim and Fascia: Provide manufacturer's standard trim, fascia board, angles, and similar components at corners, transitions, and rough openings meeting the performance requirements.
1. Basis-of-Design Product: Subject to compliance with requirements, provide Louisiana-Pacific Corporation; LP ExpertFinish Trim and Fascia 190 Series or comparable product.
2. Thickness: 0.970 [total thickness.
3. Width: As indicated on the drawings].
4. Length: Select lengths to minimize butt joints.
5. Edges: Square.
6. Color: As indicated on the drawings.
7. Texture: Smooth finish.

D. Treated Engineered Wood Outside Corners: Exterior-grade, resin-saturated, paper overlay laminated to EPA-registered zinc-borate-treated engineered wood siding. Exposed edges sealed for moisture resistance. Manufacturer's acrylic primer finish.
   1. Basis-of-Design Product: Subject to compliance with requirements, provide Louisiana-Pacific Corporation; LP ExpertFinish Outside Corners 540 Series or comparable product.
   2. Thickness: 0.970 inch total thickness.
   3. Width: 5.5 inches.
   4. Length: Select lengths to minimize butt joints 10 ft. (3.0 m).
   5. Edges: Square.
   6. Color: [As selected by Architect from manufacturer's full range] ???Insert color???.
   7. Texture: Smooth finish

E. Treated Engineered Wood J-Block: Exterior-grade, phenolic resin-saturated, paper overlay laminated to EPA-registered zinc-borate preservative-treated engineered wood siding. Exposed edges sealed for moisture resistance. Manufacturer's standard acrylic latex primer finish.
   1. Basis-of-Design Product: Subject to compliance with requirements, provide Louisiana-Pacific Corporation; LP ExpertFinish J-Block or comparable product.
   2. Thickness: 0.970 inch total thickness.
   3. Width: 7.21 inches.
   4. Edges: Square.
   5. Color: As indicated on the drawings
   6. Texture: Smooth finish

2.04 ACCESSORIES

A. Fasteners: Hot-dipped galvanized nails, with 0.092-inch diameter shank, in length required to penetrate [wood structural panels and]structural framing a minimum of 1-1/2 inches, as recommended in writing by composite siding system manufacturer suitable for and compatible with system materials. Larger diameter fasteners may be required depending on wind pressure, wind speed, and wind exposure category limitations for structures in product approvals PR-N124 or ESR-1301.

B. Non-Compressible Drainable Housewrap:
   1. Non-compressible type with a minimum 40-mil drainage gap not reduced by force of fastening during siding installation.
   2. Drainable housewrap type that removes bulk water by creating a minimum 40-mil drainage gap (air gap) at individual measurement points between housewrap and back of siding.

C. Flashing:
   1. Provide flashing at window and door heads and where indicated on Drawings. Refer to Division 07 for sheet metal flashing.
   2. Material: Aluminum.
      a. Finish: Siliconized polyester coating.
      b. Finish: High-performance organic finish.
      c. Finish: Factory-prime coating.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, engineered wood siding system supports, and other conditions affecting performance of the Work.
   1. Examine wall framing to verify that support members and anchorage have been installed within alignment tolerances required by engineered wood siding manufacturer.
   2. Examine wall sheathing to verify that sheathing joints are supported by framing or blocking and that installation is within flatness tolerances required by engineered wood siding manufacturer.

a. Verify that air and moisture barrier has been installed over sheathing substrate to prevent air infiltration and water penetration.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

A. General: Install engineered wood siding in accordance with manufacturer's written instructions in orientation, sizes, and locations indicated. Anchor engineered wood siding and other components of the Work securely in place.
   1. Shim or otherwise plumb substrates receiving engineered wood siding system.
   2. Flash engineered wood siding at perimeter of all openings.
   3. Locate and space fastenings in uniform vertical and horizontal alignment.
   4. Seal engineered wood substrates exposed to weather to prevent moisture intrusion and water buildup.
      a. Seal around penetrations.
      b. Seal each exposed cut of siding and trim. It is not recommended to field spray-applied coatings on cuts.
      c. Seal each butt joint from weather by covering with joint moldings, sealant, or factory prefinished ends.
   5. Install flashing and trim as engineered wood siding work proceeds.
   6. Align bottoms of engineered wood siding.
   7. Provide weathertight escutcheons for pipe- and conduit-penetrating engineered wood siding system.

B. Metal Protection: Where dissimilar metal flashings contact each other or corrosive substrates, protect against galvanic action as recommended in writing by siding manufacturer.

C. Accessory Installation: Install accessories with positive anchorage to building and weathertight mounting, and provide for thermal expansion. Coordinate installation with flashings and other components.

D. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA's "Architectural Sheet Metal Manual." Provide concealed fasteners where possible, and set units true to line and level. Install work with laps, joints, and seams that are permanently watertight.
   1. Install exposed flashing and trim that is without buckling and tool marks, and that is true to line and levels indicated, with exposed edges folded back to form hems. Install sheet metal flashing and trim to fit substrates and to achieve waterproof performance.

E. Replace engineered wood siding components that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION

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SECTION 07 92 00
JOINT SEALANTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Nonsag gunnable joint sealants.

B. Self-leveling pourable joint sealants.

C. Joint backings and accessories.

1.02 REFERENCE STANDARDS

A. ASTM C661 - Standard Test Method for Indentation Hardness of Elastomeric-Type Sealants by Means of a Durometer; 2015 (Reapproved 2022).

B. ASTM C794 - Standard Test Method for Adhesion-in-Peel of Elastomeric Joint Sealants; 2018 (Reapproved 2022).

C. ASTM C834 - Standard Specification for Latex Sealants; 2017 (Reapproved 2023).

D. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2018 (Reapproved 2024).

E. ASTM C1087 - Standard Test Method for Determining Compatibility of Liquid-Applied Sealants with Accessories Used in Structural Glazing Systems; 2023.

F. ASTM C1193 - Standard Guide for Use of Joint Sealants; 2025.

G. ASTM C1521 - Standard Practice for Evaluating Adhesion of Installed Weatherproofing Sealant Joints; 2019 (Reapproved 2025).

H. SCAQMD 1168 - Adhesive and Sealant Applications; 1989, with Amendment (2022).

1.03 SUBMITTALS

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

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

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

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

E. Preconstruction Laboratory Test Reports: Submit at least four weeks prior to start of installation.

F. Installation Plan: Submit at least four weeks prior to start of installation.

G. Preinstallation Field Adhesion Test Plan: Submit at least two weeks prior to start of installation.

H. Field Quality Control Plan: Submit at least two weeks prior to start of installation.

I. Preinstallation Field Adhesion Test Reports: Submit filled out Preinstallation Field Adhesion Test Reports log within 10 days after completion of tests; include bagged test samples and photographic records.

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

K. Field Quality Control Log: Submit filled-out log for each length or instance of sealant installed, within 10 days after completion of inspections/tests; include bagged test samples and photographic records, if any.

L. Executed warranty.

1.04 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum 10 years documented experience.

B. Installer Qualifications: Company specializing in performing the work of this section and with at least three years of documented experience.

C. Testing Agency Qualifications: Independent firm specializing in performing testing and inspections of the type specified in this section.

D. Preconstruction Laboratory Testing: Arrange for sealant manufacturer(s) to test each combination of sealant, substrate, backing, and accessories.
   1. Adhesion Testing: In accordance with ASTM C794.
   2. Compatibility Testing: In accordance with ASTM C1087.
   3. Allow sufficient time for testing to avoid delaying the work.
   4. Deliver sufficient samples to manufacturer for testing.
   5. Report manufacturer's recommended corrective measures, if any, including primers or techniques not indicated in product data submittals.

E. Installation Plan: Include schedule of sealed joints, including the following:
   1. Method to be used to protect adjacent surfaces from sealant droppings and smears, with acknowledgment that some surfaces cannot be cleaned to like-new condition and therefore prevention is imperative.
   2. Approximate date of installation, for evaluation of thermal movement influence.
   3. Installation Log Form: Include the following data fields, with known information filled out.
      a. Sealant used.
      b. Primer to be used, or indicate no primer is used.
      c. Date of installation.
      d. Name of installer.
      e. Actual joint width; provide space to indicate maximum and minimum width.
      f. Actual joint depth to face of backing material at centerline of joint.
      g. Air temperature.

F. Preinstallation Field Adhesion Test Plan: Include destructive field adhesion testing of one sample of each combination of sealant type and substrate, except interior acrylic latex sealants, and include the following for each tested sample.
   1. Identification of testing agency.
   2. Preinstallation Field Adhesion Test Log Form: Include the following data fields, with known information filled out.
      a. Test date.
      b. Copy of test method documents.
      c. Age of sealant upon date of testing.
      d. Test results, modeled after the sample form in the test method document.
      e. Indicate use of photographic record of test.

G. Field Quality Control Plan:
   1. Visual inspection of entire length of sealant joints.

2. Nondestructive field adhesion testing of sealant joints, except interior acrylic latex sealants.
    a. For each different sealant and substrate combination, allow for one test every 12 inches in the first 10 linear feet of joint and one test every 24 inches thereafter.
    b. If any failures occur in the first 10 linear feet, continue testing at 12 inches intervals at no extra cost to Owner.
3. Destructive field adhesion testing of sealant joints, except interior acrylic latex sealant.
    a. For each different sealant and substrate combination, allow for one test every 100 feet in the first 1,000 linear feet, and one test per 1,000 linear feet thereafter, or once per floor on each elevation.
    b. If any failures occur in the first 1,000 linear feet, continue testing at frequency of one test per 500 linear feet at no extra cost to Owner.
4. Field testing agency's qualifications.
5. Field Quality Control Log Form: Show same data fields as on Preinstallation Field Adhesion Test Log, with known information filled out and lines for multiple tests per sealant/substrate combinations; include visual inspection and specified field testing; allow for possibility that more tests than minimum specified may be necessary.

H. Field Adhesion Test Procedures:
1. Allow sealants to fully cure as recommended by manufacturer before testing.
2. Have a copy of the test method document available during tests.
3. Record the type of failure that occurred, other information required by test method, and the information required on the Field Quality Control Log.
4. When performing destructive tests, also inspect the opened joint for proper installation characteristics recommended by manufacturer, and report any deficiencies.
5. Deliver the samples removed during destructive tests in separate sealed plastic bags, identified with project, location, test date, and test results, to Owner.
6. If any combination of sealant type and substrate does not show evidence of minimum adhesion or shows cohesion failure before minimum adhesion, report results to Architect.

I. Nondestructive Field Adhesion Test: Test for adhesion in accordance with ASTM C1521, using Nondestructive Spot Method.

J. Destructive Field Adhesion Test: Test for adhesion in accordance with ASTM C1521, using Destructive Tail Procedure.
1. Sample: At least 18 inches long.
2. Minimum Elongation Without Adhesive Failure: Consider the tail at rest, not under any elongation stress; multiply the stated movement capability of the sealant in percent by two; then multiply 1 inch by that percentage; if adhesion failure occurs before the 1-inch mark is that distance from the substrate, the test has failed.
3. If either adhesive or cohesive failure occurs before minimum elongation, take necessary measures to correct conditions and retest; record each modification to products or installation procedures.

1.05 WARRANTY

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

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

PART 2 PRODUCTS

2.01 JOINT SEALANT APPLICATIONS

A. Scope:
1. Exterior Joints:
    a. Seal open joints except open joints indicated on drawings as not sealed.
2. Interior Joints:

a. Do not seal interior joints indicated on drawings as not sealed.
b. Seal the following joints:
1) Joints between door frames and window frames and adjacent construction.

3. Do Not Seal:
a. Intentional weep holes in masonry.
b. Joints indicated to be covered with expansion joint cover assemblies.
c. Joints where sealant is specified to be furnished and installed by manufacturer of product to be sealed.
d. Joints where sealant installation is specified in other sections.
e. Joints between suspended ceilings and walls.

B. Exterior Joints: Use nonsag polyurethane sealant, unless otherwise indicated.

C. Interior Wet Areas: Bathrooms, restrooms, kitchens, food service areas, food processing areas, and _____; fixtures in wet areas include plumbing fixtures, food service equipment, countertops, cabinets, other similar items, and _____.

2.02 JOINT SEALANTS - GENERAL

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

B. Colors: As indicated on drawings.

2.03 NONSAG JOINT SEALANTS

A. Type Exterior Conventional Polyurethane - Polyurethane Sealant: ASTM C920, Grade NS, Uses M and A; single or multi-component; not expected to withstand continuous water immersion or traffic.
1. Movement Capability: Plus and minus 50 percent, minimum.
2. Hardness Range: 20 to 35, Shore A, when tested in accordance with ASTM C661.
3. Color: To be selected by Architect from manufacturer's full range.
4. Service Temperature Range: Minus 40 to 180 degrees F.

B. Type Interior Nonwet Areas - Acrylic Emulsion Latex: Water-based; ASTM C834, single component, nonstaining, nonbleeding, nonsagging; not intended for exterior use.
1. Color: To be selected by Architect from manufacturer's full range.
2. Grade: ASTM C834; Grade 0 Degrees F (Minus 18 Degrees C).

2.04 ACCESSORIES

A. Sealant Backing Materials, General: Materials placed in joint before applying sealants; assists sealant performance and service life by developing optimum sealant profile and preventing three-sided adhesion; type and size recommended by sealant manufacturer for compatibility with sealant, substrate, and application.

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

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

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

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

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that joints are ready to receive work.

B. Verify that backing materials are compatible with sealants.

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

D. Preinstallation Adhesion Testing: Install a sample for each test location indicated in the test plan.
   1. Test each sample as specified in PART 1 under QUALITY ASSURANCE article.
   2. Notify Architect of date and time that tests will be performed, at least seven days in advance.
   3. Record each test on Preinstallation Adhesion Test Log as indicated.
   4. If any sample fails, review products and installation procedures, consult manufacturer, or take other measures that are necessary to ensure adhesion; retest in a different location; if unable to obtain satisfactory adhesion, report to Architect.
   5. After completion of tests, remove remaining sample material and prepare joints for new sealant installation.

3.02 PREPARATION

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

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

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

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

3.03 INSTALLATION

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

B. Provide joint sealant installations complying with ASTM C1193.

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

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

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

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

3.04 FIELD QUALITY CONTROL

A. See Section 01 40 00 - Quality Requirements for additional requirements.

B. Perform field quality control inspection/testing as specified in PART 1 under QUALITY ASSURANCE article.

C. Non-Destructive Adhesion Testing: If there are any failures in first 100 linear feet, notify Architect immediately.

D. Destructive Adhesion Testing: If there are any failures in first 1,000 linear feet, notify Architect immediately.

E. Remove and replace failed portions of sealants using same materials and procedures as indicated for original installation.

F. Repair destructive test location damage immediately after evaluation and recording of results.

END OF SECTION

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SECTION 08 11 13
HOLLOW METAL DOORS AND FRAMES

PART 1 GENERAL

1.01 SECTION INCLUDES

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

B. Hollow metal frames for wood doors.

C. Fire-rated hollow metal doors and frames.

D. Thermally insulated hollow metal doors with frames.

E. Hollow metal borrowed lites glazing frames.

1.02 RELATED REQUIREMENTS

A. Section 08 71 00 - Door Hardware.

B. Section 08 80 00 - Glazing.

1.03 ABBREVIATIONS AND ACRONYMS

A. ANSI: American National Standards Institute.

B. ASCE: American Society of Civil Engineers.

C. HMMA: Hollow Metal Manufacturers Association.

D. NAAMM: National Association of Architectural Metal Manufacturers.

E. NFPA: National Fire Protection Association.

F. SDI: Steel Door Institute.

G. UL: Underwriters Laboratories.

1.04 REFERENCE STANDARDS

A. ADA Standards - 2010 ADA Standards for Accessible Design; 2010.

B. ANSI/SDI A250.4 - Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors, Frames and Frame Anchors; 2026.

C. ANSI/SDI A250.8 - Specifications for Standard Steel Doors and Frames (SDI-100); 2023.

D. ANSI/SDI A250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames; 2025.

E. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2025a.

F. ASTM A1008/A1008M - Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Required Hardness, Solution Hardened, and Bake Hardenable; 2026.

G. ASTM A1011/A1011M - Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength; 2025.

H. ASTM C143/C143M - Standard Test Method for Slump of Concrete; 2026b.

I. ASTM C476 - Standard Specification for Grout for Masonry; 2023.

J. BHMA A156.115 - Hardware Preparation in Steel Doors and Frames; 2016.

K. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2017.

L. ITS (DIR) - Directory of Listed Products; Current Edition.

M. NAAMM HMMA 830 - Hardware Selection for Hollow Metal Doors and Frames; 2002.

N. NAAMM HMMA 831 - Hardware Locations for Hollow Metal Doors and Frames; 2024.

O. NAAMM HMMA 840 - Guide Specifications for Receipt, Storage and Installation of Hollow Metal Doors and Frames; 2024.

P. NAAMM HMMA 861 - Guide Specifications for Commercial Hollow Metal Doors and Frames; 2014.

Q. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2025, with Amendment (2024).

R. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; 2022.

S. SDI 117 - Manufacturing Tolerances for Standard Steel Doors and Frames; 2026.

T. UL (DIR) - Online Certifications Directory; Current Edition.

U. UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies; Current Edition, Including All Revisions.

1.05 SUBMITTALS

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

B. Product Data: Materials and details of design and construction, hardware locations, reinforcement type and locations, anchorage and fastening methods, and finishes; and one copy of referenced standards/guidelines.

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

1.06 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than 10 years documented experience.

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

1.07 DELIVERY, STORAGE, AND HANDLING

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

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

1.08 PROJECT CONDITIONS

A. Field Measurements: Confirm actual dimensions of each opening via Project Site measurements, prior to commencement of ffabrication.

1.09 COORDINATION

A. Coordinate installation of all anchorages for hollow metal frames. Furnish setting drawings, templates and directions for all installing anchorages, including sleeves, concrete inserts, anchor bolts and items with integral anchors. Deliver such items to project site in time for scheduled installation.

PART 2 PRODUCTS

2.01 MANUFACTURERS

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

2.02 PERFORMANCE REQUIREMENTS

A. Requirements for Hollow Metal Doors and Frames:
   1. Steel Sheet: Comply with one or more of the following requirements; galvannealed steel complying with ASTM A653/A653M, cold-rolled steel complying with ASTM

A1008/A1008M, or hot-rolled pickled and oiled (HRPO) steel complying with ASTM A1011/A1011M, commercial steel (CS) Type B, for each.

2. Accessibility: Comply with ICC A117.1 and ADA Standards.
3. Door Edge Profile: Manufacturers standard for application indicated.
4. Hardware Preparations, Selections and Locations: Comply with NAAMM HMMA 830 and NAAMM HMMA 831 or BHMA A156.115 and ANSI/SDI A250.8 (SDI-100) in accordance with specified requirements.
5. Zinc Coating for Typical Interior and/or Exterior Locations: Provide metal components zinc-coated (galvanized) and/or zinc-iron alloy-coated (galvannealed) by the hot-dip process in accordance with ASTM A653/A653M, with manufacturer's standard coating thickness, unless noted otherwise for specific hollow metal doors and frames.
    a. Based on SDI Standards: Provide at least A40/ZF120 (galvannealed) when necessary, coating not required for typical interior door applications, and at least A60/ZF180 (galvannealed) for corrosive locations.

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

2.03 HOLLOW METAL DOORS

A. Door Finish: Factory primed and field finished.

B. Exterior Doors: Thermally insulated.
1. Based on SDI Standards: ANSI/SDI A250.8 (SDI-100).
    a. Level .
    b. Physical Performance ; in accordance with ANSI/SDI A250.4.
    c. Model 1 - Full Flush.
    d. Door Face Metal Thickness: , minimum.
    e. Zinc Coating: A60/ZF180 galvannealed coating; ASTM A653/A653M.
    f. Thermal properties to rate at a fully operable minimum U-Factor 0.374 and R-Value 2.53, including insulated door, Mercury thermal break frame and threshold.
    g. Top and Bottom Edges: Reinforce top and bottom of each door with continuous steel channel not less than 16 gauge, extending the full width of the door and welded to the face sheet. Doors with an inverted top channel shall include a steel closure channel, screw attached, with the web of the channel flush with the face sheets of the door. Plastic or composite channel fillers will not be acceptable.
    h. Hinge Reinforcement: Minimum 7 gauge (3/16"), plate 1-1/4" x 9".
    i. Hardware Reinforcements: Fabricate according to ANSI/SDI A250.6, Current Edition, with reinforcing plates from same material as door face sheets.
2. Door Thickness: 1-3/4 inches, nominal.
3. Top Closures: Flush with top of faces and edges.
4. Door Face Sheets: Flush.

C. Interior Doors, Non-Fire-Rated:
1. Based on SDI Standards: ANSI/SDI A250.8 (SDI-100).
    a. Level 2 - Heavy-duty.
    b. Physical Performance Level B, 500,000 cycles; in accordance with ANSI/SDI A250.4.
    c. Model 1 - Full Flush.
    d. Door Face Metal Thickness: 18 gauge, 0.042 inch, minimum.
    e. Zinc Coating: A60/ZF180 galvannealed coating; ASTM A653/A653M.
2. Door Core Material: Manufacturers standard core material/construction and in compliance with requirements.
3. Door Thickness: 1-3/4 inches, nominal.
4. Door Face Sheets: Flush.

5. Top and Bottom Edges: Reinforce tops and bottoms of each door with continuous steel channel not less than16 gauge, extending the full width of the door and welded to the face sheet.
6. Hinge Reinforcement: Minimum 7 gauge (3/16"), plate 1-1/4" x 9" or minimum 14 gauge continuous channel with pierced holes, drilled and tapped.
7. Hardware Reinforcements: Fabricate according to ANSI/SDI A250.6, Current Edition, with reinforcing plates from same material as door face sheets.

D. Fire-Rated Doors:
1. Based on SDI Standards: ANSI/SDI A250.8 (SDI-100).
a. Level 2 - Heavy-duty.
b. Physical Performance Level B, 500,000 cycles; in accordance with ANSI/SDI A250.4.
c. Model 1 - Full Flush.
d. Door Face Metal Thickness: 18 gauge, 0.042 inch, minimum.
2. Fire Rating: As indicated on drawings, tested in accordance with UL 10C and NFPA 252 ("positive pressure fire tests").
3. Temperature-Rise Rating (TRR) Across Door Thickness: In accordance with local building code and authorities having jurisdiction.
4. Provide units listed and labeled by UL (DIR) or ITS (DIR).
a. Attach fire rating label to each fire rated unit.
5. Door Core Material: Manufacturers standard core material/construction in compliance with requirements.
6. Door Thickness: 1-3/4 inches, nominal.
7. Door Face Sheets: Flush.

2.04 HOLLOW METAL FRAMES

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

B. Frame Finish: Factory primed and field finished.

C. Exterior Door Frames: Knock-down type.
1. Galvanizing: Components hot-dipped zinc-iron alloy-coated (galvannealed) in accordance with ASTM A653/A653M, with A40/ZF120 coating.
2. Frame Metal Thickness: 14 gauge, 0.067 inch, minimum.
3. Weatherstripping: See Section 08 71 00.

D. Interior Door Frames, Non-Fire Rated: Full profile/continuously welded type.
1. Frame Metal Thickness: 16 gauge, 0.053 inch, minimum.

E. Door Frames, Fire-Rated: Knock-down type.
1. Fire Rating: Same as door, labeled.
2. Frame Metal Thickness: 16 gauge, 0.053 inch, minimum.

F. Frames for Wood Doors: Comply with frame requirements in accordance with corresponding door.

G. Borrowed Lites Glazing Frames: Construction and face dimensions to match door frames, and as indicated on drawings.

H. Provide mortar guard boxes for hardware cut-outs in frames to be installed in masonry or to be grouted.

I. Frames in Masonry Walls: Size to suit masonry coursing with head member 4 inches high to fill opening without cutting masonry units.

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

2.05 FINISHES

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

2.06 ACCESSORIES

A. Door Window Frames: Door window frames with glazing securely fastened within door opening.
   1. Size: As indicated on drawings.
   2. Frame Material: 18 gauge, 0.0478 inch, galvanized steel.

B. Glazing: As specified in Section 08 80 00, factory installed.

C. Removable Stops: Formed sheet steel, shape as indicated on drawings, mitered or butted corners; prepared for countersink style tamper proof screws.

D. Grout for Frames: Mortar grout complying with ASTM C476 with maximum slump of 4 inches as measured in accordance with ASTM C143/C143M for hand troweling in place; plaster grout and thinner pumpable grout are prohibited.

E. Silencers: Resilient rubber, fitted into drilled hole; provide three on strike side of single door, three on center mullion of pairs, and two on head of pairs without center mullions.

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

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting work.

B. Verify that opening sizes and tolerances are acceptable.

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

3.02 PREPARATION

A. Coat inside of frames to be installed in masonry or to be grouted, with bituminous coating, prior to installation.

3.03 INSTALLATION

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

B. Install fire rated units in accordance with NFPA 80.

C. Coordinate frame anchor placement with wall construction.

D. Grout frames in masonry construction, using hand trowel methods; brace frames so that pressure of grout before setting will not deform frames.

E. Install door hardware as specified in Section 08 71 00.

F. Coordinate installation of electrical connections to electrical hardware items.

3.04 TOLERANCES

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

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

3.05 ADJUSTING

A. Adjust for smooth and balanced door movement.

END OF SECTION

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SECTION 08 14 16
FLUSH WOOD DOORS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Flush wood doors; flush configuration; non-rated.

1.02 RELATED REQUIREMENTS

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

1.03 REFERENCE STANDARDS

A. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards, 2nd Edition; 2014, with Errata (2016).

B. AWMAC/WI (NAAWS) - North American Architectural Woodwork Standards; 2021, with Errata.

1.04 SUBMITTALS

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

B. Product Data: Indicate door core materials and construction; veneer species, type and characteristics.

C. Shop Drawings: Show doors and frames, elevations, sizes, types, swings, undercuts, beveling, blocking for hardware, factory machining, factory finishing, cutouts for glazing and other details.

D. Samples: Submit two samples of door veneer, 3 by 3 inches in size illustrating wood grain, stain color, and sheen.

E. Manufacturer's Installation Instructions: Indicate special installation instructions.

F. Warranty, executed in Owner's name.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section, with not less than three years of documented experience.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Package, deliver and store doors in accordance with specified quality standard.

B. Accept doors on site in manufacturer's packaging, and inspect for damage.

C. Protect doors with resilient packaging sealed with heat shrunk plastic; do not store in damp or wet areas or areas where sunlight might bleach veneer; seal top and bottom edges with tinted sealer if stored more than one week, and break seal on site to permit ventilation.

1.07 WARRANTY

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

B. Manufacturer Warranty: Provide manufacturer's warranty on interior doors for the life of the installation. Complete forms in Owner's name and register with manufacturer.

1. Include coverage for delamination of veneer, warping beyond specified installation tolerances, defective materials, and telegraphing core construction.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Wood Veneer Faced Doors:

1. As indicated on the drawings.
2. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 DOORS AND PANELS

A. Doors: See drawings for locations and additional requirements.

1. Quality Standard: Custom Grade, Heavy Duty performance, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.
2. Wood Veneer Faced Doors: 5-ply unless otherwise indicated.

B. Interior Doors: 1-3/4 inches thick unless otherwise indicated; flush construction.
1. Provide solid core doors at each location.
2. Wood veneer facing with factory transparent finish as indicated on drawings.

2.03 DOOR AND PANEL CORES

A. Non-Rated Solid Core and 20 Minute Rated Doors: Type particleboard core (PC), plies and faces as indicated.

2.04 DOOR FACINGS

A. Veneer Facing for Transparent Finish: Species as indicated on the drawings, veneer grade in accordance with quality standard indicated, plain sliced (flat cut), with book match between leaves of veneer, running match of spliced veneer leaves assembled on door or panel face.
1. Vertical Edges: Same species as face veneer.
2. "Pair Match" each pair of doors; "Set Match" pairs of doors within 10 feet of each other when doors are closed.

2.05 DOOR CONSTRUCTION

A. Fabricate doors in accordance with door quality standard specified.

B. Cores Constructed with stiles and rails:
1. Provide solid blocks at lock edge for hardware reinforcement.
2. Provide solid blocking for other throughbolted hardware.

C. Factory machine doors for hardware other than surface-mounted hardware, in accordance with hardware requirements and dimensions.

D. Factory fit doors for frame opening dimensions identified on shop drawings, with edge clearances in accordance with specified quality standard.

E. Provide edge clearances in accordance with the quality standard specified.

2.06 FINISHES - WOOD VENEER DOORS

A. Finish work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), Section 5 - Finishing for grade specified and as follows:

B. Factory finish doors in accordance with approved sample.

C. Seal door top edge with color sealer to match door facing.

2.07 ACCESSORIES

A. Hollow Metal Door Frames: See Section 08 11 13.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting work.

B. Verify that opening sizes and tolerances are acceptable.

C. Do not install doors in frame openings that are not plumb or are out-of-tolerance for size or alignment.

3.02 INSTALLATION

A. Install doors in accordance with manufacturer's instructions and specified quality standard.

B. Factory-Finished Doors: Do not field cut or trim; if fit or clearance is not correct, replace door.

C. Use machine tools to cut or drill for hardware.

D. Coordinate installation of doors with installation of frames and hardware.

3.03 TOLERANCES

A. Comply with specified quality standard for fit and clearance tolerances.

B. Comply with specified quality standard for telegraphing, warp, and squareness.

3.04 ADJUSTING

A. Adjust doors for smooth and balanced door movement.

B. Adjust closers for full closure.

END OF SECTION

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SECTION 08 36 13
SECTIONAL DOORS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Overhead sectional doors, electrically operated.

B. Operating hardware and supports.

C. Electrical controls.

1.02 RELATED REQUIREMENTS

A. Section 26 05 83 - Wiring Connections.

1.03 REFERENCE STANDARDS

A. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2025a.

B. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass; 2025.

C. ASTM E283/E283M - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen; 2026.

D. ASTM E330/E330M - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference; 2014 (Reapproved 2021).

E. DASMA 102 - American National Standard Specifications for Sectional Doors; 2018.

F. ITS (DIR) - Directory of Listed Products; Current Edition.

G. NEMA ICS 2 - Industrial Control and Systems Controllers, Contactors and Overload Relays Rated 600 Volts; 2008 (Reaffirmed 2020).

H. NEMA MG 00001 - Motors and Generators; 2024.

I. NEMA EN 10250 - Enclosures for Electrical Equipment (1000 Volts Maximum); 2024.

J. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

K. UL (DIR) - Online Certifications Directory; Current Edition.

L. UL 325 - Standard for Door, Drapery, Gate, Louver, and Window Operators and Systems; Current Edition, Including All Revisions.

1.04 SUBMITTALS

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

B. Shop Drawings: Indicate opening dimensions and required tolerances, connection details, anchorage spacing, hardware locations, and installation details.

C. Product Data: Show component construction, anchorage method, and hardware.

D. Manufacturer's Installation Instructions: Include any special procedures required by project conditions.

E. Operation Data: Include normal operation, troubleshooting, and adjusting.

F. Maintenance Data: Include data for motor and transmission, shaft and gearing, lubrication frequency, spare part sources.

G. Specimen warranty.

H. Warranty: Submit Manufacturer's Warranty while ensuring all forms have been completed in Owner's name and registered with Manufacturer.

1.05 QUALITY ASSURANCE

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

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

C. Comply with applicable code for motor and motor control requirements.

D. Products Requiring Electrical Connection: Listed and classified by ITS (DIR), UL (DIR), or testing firm acceptable to authorities having jurisdiction, as suitable for purpose specified.

1.06 WARRANTY

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

B. Extended Correction Period: Correct defective work within a 2-year period commencing on Date of Substantial Completion.

C. Manufacturer Warranty: Provide 5-year manufacturer warranty for electric operating equipment. Complete forms in Owner's name and register with manufacturer.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Sectional Doors:
   1. Basis of Design: Wayne-Dalton, a Division of Overhead Door Corporation; Thermospan 200-20: www.wayne-dalton.com/#sle.
      a. Include 1/2-inch thick insulted tempered glazing..
   2. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 PERFORMANCE REQUIREMENTS

A. Performance: Withstand positive and negative wind loads equal to 1.5 times design wind loads specified by local code without damage or permanent set, when tested in accordance with ASTM E330/E330M, using 10 second duration of maximum load.

B. Air Leakage Rate: Less than 0.40 cfm/sq ft when tested in accordance with ASTM E283/E283M at test pressure difference of 1.57 psf.

C. Thermal Transmittance: U-factor of 0.31 Btu/hr sq ft degrees F, maximum, in accordance with DASMA 102.

2.03 STEEL DOORS

A. Doors: Flush steel, insulated; standard lift operating style with track and hardware; complying with DASMA 102, Commercial application.
   1. Door Panels: Steel construction; outer steel sheet of 20 gauge, 0.0359 inch minimum thickness, flush profile; inner steel sheet of 20 gauge, 0.0359 inch minimum thickness, flat profile; core reinforcement sheet steel roll formed to channel shape, rabbeted weather joints at meeting rails; polyurethane insulation.
   2. Door Nominal Thickness: 2 inches thick.
   3. Exterior Finish:
      a. Factory finished with acrylic baked enamel; color as indicated on the drawings.
   4. Interior Finish:
      a. Factory finished with acrylic baked enamel; color as indicated on the drawings.
   5. Glazed Lites: Three glazed lights per panel, number of rows as indicated on the drawings; set in place with resilient glazing channel.
      a. Glazing: Fully tempered glass; insulated glass units; clear; 1/2 inch nominal overall thickness.
   6. Electric Operation: Electric control station.

2.04 COMPONENTS

A. Track: Rolled galvanized steel, 0.120 inch minimum thickness; 3 inch wide, continuous one piece per side; galvanized steel mounting brackets 1/4 inch thick.
   1. High lift, hold 24-inches minimum from ceiling structure

B. Hinge and Roller Assemblies: Heavy duty hinges and adjustable roller holders of galvanized steel; floating hardened steel bearing rollers, located at top and bottom of each panel, each side.
   1. 3-inch rollers, including ten 5/16-inch steel ball bearings, full floating within hardened steel races.

C. Lift Mechanism: Torsion spring on cross head shaft, with braided galvanized steel lifting cables.
   1. For Manual Operation: Requiring maximum exertion of 25 lbs force to open.
   2. 100K cycle.

D. Sill Weatherstripping: One-piece resilient hollow rubber strip, one piece; fitted to bottom of door panel, full length contact.

E. Jamb Weatherstripping: Roll formed steel section full height of jamb, fitted with resilient weatherstripping, placed in moderate contact with door panels.

F. Head Weatherstripping: EPDM rubber seal, one piece full length.

G. Panel Joint Weatherstripping: Neoprene foam seal, one piece full length.

H. Lock: Inside center mounted, adjustable keeper, spring activated latch bar with feature to retain in locked or retracted position; interior and exterior handle.

2.05 MATERIALS

A. Sheet Steel: Hot-dipped galvanized steel sheet, ASTM A653/A653M, with G60/Z180 coating, plain surface.

B. Float Glass: Provide float glass glazing, unless noted otherwise.
   1. Heat-Strengthened and Fully Tempered Types: ASTM C1048.

C. Insulation: Foamed-in-place polyurethane, bonded to facing.

2.06 ELECTRIC OPERATION

A. Operator, Controls, Actuators, and Safeties: Comply with UL 325; provide products listed by ITS (DIR), UL (DIR), or testing agency acceptable to authorities having jurisdiction.
   1. Provide interlock switches on motor operated units.
   2. All wiring, including low voltage, shall be set within concuit and concealed within masonry.

B. Electric Operators:
   1. Basis of Design: Liftmaster J, Jackshaft Operator.
      a. Manually operable in case of power faliure.
   2. Mounting: Side mounted on cross head shaft.
   3. Motor Enclosure:
      a. Exterior Doors: NEMA MG 00001, Type 4; open drip proof.
   4. Motor Rating: 1 hp; continuous duty.
   5. Motor Voltage: Coordinate with electrical drawings.
   6. Motor Controller: NEMA ICS 2, full voltage, reversing magnetic motor starter.
   7. Controller Enclosure: NEMA EN 10250, Type 1.
   8. Opening Speed: 12 inches per second.
   9. Brake: Adjustable friction clutch type, activated by motor controller.
   10. Manual override in case of power failure.
   11. See Section 26 05 83 for electrical connections.

C. Wiring Terminations: Provide terminal lugs to match branch circuit conductor quantities, sizes, and materials indicated; enclose terminal lugs in terminal box sized to comply with NFPA 70.

D. Control Station: Provide standard three button (Open-Close-Stop) momentary-contact control device for each operator complying with UL 325.
   1. Disconnect Switch: Factory mount disconnect switch within control panel.
   2. 24 volt circuit.
   3. Recess mounted, at interior door jamb.
   4. Entrapment Protection Devices: Provide sensing devices and safety mechanisms complying with UL 325.
      a. Primary Device: Provide Double set of photoelectric eye sensors located at bottom of door jamb, approximately (24) twenty four inches above finish floor, final location shall be field determined by Owner Representative, based on apparatus configuration .
   5. Radio Control Antenna Detector, Long Distance Antenna: Reference Electrical Drawings and Specifications for additional requirements. Provides enhanced range through radio communications and reduced interference, ensuring that door opens and closes reliably at all times.
      a. Hand Held Transmitter: Digital control, resettable two (2) per door operator.
      b. Contact, as required to signal door shall be completely open.
      c. Adjustable timer that closes door, as required to secure the station after a predetermined amount of time.
   6. Red, Green Warning Lights, power off of operator, one per each exit door opening. (Liftmaster RGL24LY) final location shall be field determined by Owner Representative, based on apparatus configuration, this particular Project.

E. Safety Edge: Located at bottom of sectional door panel, full width; electro-mechanical sensitized type, wired to stop and reverse door direction upon striking object; hollow neoprene covered to provide weatherstrip seal.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that wall openings are ready to receive work and opening dimensions and tolerances are within specified limits.

B. Verify that electric power is available and of the correct characteristics.

3.02 PREPARATION

A. Prepare opening to permit correct installation of door unit to perimeter air and vapor barrier seal.

B. Apply primer to wood frame.

3.03 INSTALLATION

A. Install door unit assembly in accordance with manufacturer's instructions.

B. Anchor assembly to wall construction and building framing without distortion or stress.

C. Securely brace door tracks suspended from structure. Secure tracks to structural members only.

D. Fit and align door assembly including hardware.

E. Coordinate installation of electrical service. Complete power and control wiring from disconnect to unit components.

F. Install perimeter trim.

3.04 TOLERANCES

A. Maximum Variation from Plumb: 1/16 inch.

B. Maximum Variation from Level: 1/16 inch.

C. Longitudinal or Diagonal Warp: Plus or minus 1/8 inch from 10 ft straight edge.

D. Maintain dimensional tolerances and alignment with adjacent work.

3.05 ADJUSTING

A. Adjust door assembly for smooth operation and full contact with weatherstripping.

B. Have manufacturer's field representative present to confirm proper operation and identify adjustments to door assembly for specified operation.

3.06 CLEANING

A. Clean doors and frames and glazing.

B. Remove temporary labels and visible markings.

3.07 PROTECTION

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

B. Do not permit construction traffic through overhead door openings after adjustment and cleaning.

END OF SECTION

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SECTION 08 43 13
ALUMINUM-FRAMED STOREFRONTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Aluminum-framed storefront, with vision glass.

B. Aluminum doors and frames.

C. Weatherstripping.

1.02 RELATED REQUIREMENTS

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

1.03 REFERENCE STANDARDS

A. AAMA CW-10 - Care and Handling of Architectural Aluminum from Shop to Site; 2026.

B. AAMA 609 & 610 - Cleaning and Maintenance Guide for Architecturally Finished Aluminum; 2025.

C. AAMA 611 - Specification for Anodized Architectural Aluminum; 2026.

D. AAMA 1503 - Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections; 2009.

E. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.

F. ASTM A36/A36M - Standard Specification for Carbon Structural Steel; 2019.

G. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2024.

H. ASTM B209/B209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2021a.

I. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2021.

J. ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric); 2021.

K. ASTM E283/E283M - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen; 2026.

L. ASTM E330/E330M - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference; 2014 (Reapproved 2021).

M. ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference; 2000 (Reapproved 2023).

N. SSPC-Paint 20 - Zinc-Rich Coating (Type I - Inorganic, and Type II - Organic); 2019.

1.04 ADMINISTRATIVE REQUIREMENTS

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

1.05 SUBMITTALS

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

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

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

D. Samples: Submit two samples 3 x 3 inches in size illustrating finished aluminum surface, glass, glazing materials.

E. Hardware Schedule: Complete itemization of each item of hardware to be provided for each door, cross-referenced to door identification numbers in Contract Documents.

F. Specimen warranty.

1.06 MOCK-UPS

A. Provide components for construction of a mock-up wall as indicated in Section 01 40 00 Quality Requirements and as indicated on the drawings.

B. Locate as indicated on drawings.

C. Provide all materials required for the mock-up wall.Refer to Section 01 40 00 Quality Requirements for addtional information.Mock-up may not remain as part of the Work.

D. Refer to Section 01 40 00 Quality Requirements for addtional information.

E. Mock-up may not remain as part of work.

1.07 DELIVERY, STORAGE, AND HANDLING

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

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

1.08 FIELD CONDITIONS

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

1.09 WARRANTY

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

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

C. Provide five year manufacturer warranty against failure of glass seal on insulating glass units, including interpane dusting or misting. Include provision for replacement of failed units.

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

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Aluminum-Framed Storefronts:
   1. Manko Window Systems, Inc: www.mankowindows.com/#sle.
   2. Oldcastle BuildingEnvelope: www.oldcastlebe.com/#sle.
   3. Basis of Design: YKK AP America, Inc; YES 35 TU (thermally broken storefront system and 35D (medium style door): www.ykkap.com/commercial/#sle.
   4. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 BASIS OF DESIGN -- SWINGING DOORS

A. Medium Stile, Insulating Glazing, Thermally-Broken:
   1. Thickness: 1-3/4 inches.

2.03 ALUMINUM-FRAMED STOREFRONT

A. Aluminum-Framed Storefront: Factory fabricated, factory finished aluminum framing members with infill, and related flashings, anchorage and attachment devices.
   1. Glazing Rabbet: For 1 inch insulating glazing.
   2. Glazing Position: Centered (front to back).
   3. Finish: Class I natural anodized.
      a. Factory finish all surfaces that will be exposed in completed assemblies.

b. Touch-up surfaces cut during fabrication so that no natural aluminum is visible in completed assemblies, including joint edges.
c. Coat concealed metal surfaces that will be in contact with cementitious materials or dissimilar metals with bituminous paint.

4. Finish Color: As indicated on drawings.
5. Fabrication: Joints and corners flush, hairline, and weatherproof, accurately fitted and secured; prepared to receive anchors and hardware; fasteners and attachments concealed from view; reinforced as required for imposed loads.
6. Construction: Eliminate noises caused by wind and thermal movement, prevent vibration harmonics, and prevent "stack effect" in internal spaces.
7. System Internal Drainage: Drain to the exterior by means of a weep drainage network any water entering joints, condensation occurring in glazing channel, and migrating moisture occurring within system.
8. Expansion/Contraction: Provide for expansion and contraction within system components caused by cycling temperature range of 170 degrees F over a 12 hour period without causing detrimental effect to system components, anchorages, and other building elements.
9. Movement: Allow for movement between storefront and adjacent construction, without damage to components or deterioration of seals.
10. Perimeter Clearance: Minimize space between framing members and adjacent construction while allowing expected movement.
11. Maintain continuous air barrier and/or vapor retarder seal throughout assembly, primarily in line with inside pane of glazing and inner sheet of infill panel, and heel bead of glazing compound.
12. Preparation for Window Treatments: Provide reinforced interior horizontal head rail.

B. Performance Requirements
1. Wind Loads: Design and size components to withstand the specified load requirements without damage or permanent set, when tested in accordance with ASTM E330/E330M, using loads 1.5 times the design wind loads and 10 second duration of maximum load.
a. Design Wind Loads: Comply with requirements of ASCE 7.
b. Member Deflection: Limit member deflection to flexure limit of glass in any direction, with full recovery of glazing materials.
2. Water Penetration Resistance on Manufactured Assembly: No uncontrolled water on interior face, when tested in accordance with ASTM E331 at pressure differential of 8 psf.
3. Air Leakage: 0.06 cfm/sq ft maximum leakage of storefront wall area when tested in accordance with ASTM E283/E283M at 1.57 psf pressure difference.
4. Condensation Resistance Factor of Framing: 50, minimum, measured in accordance with AAMA 1503.

2.04 COMPONENTS

A. Aluminum Framing Members: Tubular aluminum sections, thermally broken with interior section insulated from exterior, drainage holes and internal weep drainage system.
1. Framing members for interior applications need not be thermally broken.
2. Glazing Stops: Flush.
3. Cross-Section: As indicated on drawings.
4. Structurally Reinforced Members: Extruded aluminum with internal reinforcement of structural steel member.

B. Glazing: See Section 08 80 00.

C. Swing Doors: Glazed aluminum.
1. Thickness: 2 inches.
2. Top Rail: 4 inches wide.
3. Vertical Stiles: 4-1/2 inches wide.
4. Bottom Rail: 10 inches wide.

5. Glazing Stops: Square.
6. Finish: Same as storefront.

2.05 MATERIALS

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

B. Sheet Aluminum: ASTM B209/B209M.

C. Structural Steel Sections: ASTM A36/A36M; galvanized in accordance with requirements of ASTM A123/A123M.

D. Structural Supporting Anchors Attached to Structural Steel: Design for bolted attachment.

E. Fasteners: Stainless steel.

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

G. Concealed Flashings: Sheet aluminum, 26 gauge, 0.017 inch minimum thickness.

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

I. Sealant for Setting Thresholds: Non-curing butyl type.

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

K. Shop and Touch-Up Primer for Steel Components: Zinc oxide, alkyd, linseed oil primer appropriate for use over hand cleaned steel.

L. Touch-Up Primer for Galvanized Steel Surfaces: SSPC-Paint 20, zinc rich.

2.06 FINISHES

A. Class I Color Anodized Finish: AAMA 611 AA-M12C22A44 Electrolytically deposited colored anodic coating not less than 0.7 mils thick.

B. Color: As indicated on drawings.

2.07 HARDWARE

A. For each door, include weatherstripping, sill sweep strip, and threshold.

B. Other Door Hardware: Storefront manufacturer's standard type to suit application.
   1. Finish on Hand-Contacted Items: Polished chrome.
   2. For each door, include butt hinges, pivots, push handle, pull handle, exit device, narrow stile handle latch, and closer.

PART 3 EXECUTION

3.01 EXAMINATION

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

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

3.02 INSTALLATION

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

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

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

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

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

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

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

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

I. Set thresholds in bed of sealant and secure.

J. Install hardware using templates provided.

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

3.03 TOLERANCES

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

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

3.04 FIELD QUALITY CONTROL

3.05 ADJUSTING

A. Adjust operating hardware and sash for smooth operation.

3.06 CLEANING

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

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

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

3.07 PROTECTION

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

END OF SECTION

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SECTION 08 80 00
GLAZING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Insulating glass units.

B. Light diffusing insulating glass units.

C. Glazing units.

D. Glass coatings.

E. Glazing compounds.

1.02 RELATED REQUIREMENTS

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

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

C. Section 08 44 13 - Glazed Aluminum Curtain Walls: Glazing provided as part of wall assembly.

D. Section 08 51 13 - Aluminum Windows: Glazing provided by window manufacturer.

1.03 REFERENCE STANDARDS

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

B. ANSI Z97.1 - American National Standard for Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test; 2026.

C. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.

D. ASTM C864 - Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers; 2005 (Reapproved 2026).

E. ASTM C1036 - Standard Specification for Flat Glass; 2025.

F. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass; 2025.

G. ASTM C1193 - Standard Guide for Use of Joint Sealants; 2025.

H. ASTM E1300 - Standard Practice for Determining Load Resistance of Glass in Buildings; 2024.

I. GANA (GM) - GANA Glazing Manual; 2022.

J. GANA (SM) - GANA Sealant Manual; 2008.

K. NFRC 100 - Procedure for Determining Fenestration Product U-Factors; 2026.

L. NFRC 200 - Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence; 2023.

M. NFRC 300 - Test Method for Determining the Solar Optical Properties of Glazing Materials and Systems; 2026.

1.04 COODINATION

A. Coordinate glazing channel dimensions to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances.

1.05 SUBMITTALS

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

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

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

D. Samples: Submit two samples 12 by 12 inch in size of glass units.

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

1.06 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum five years of documented experience.
   1. Provide certified glass products through ANSI accredited certifications that include plant audits and independent laboratory performance testing.
      a. Insulating Glass Certification Council (IGCC).
      b. Safety Glazing Certification Council (SGCC).

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

1.07 MOCK-UPS

A. Provide components for construction of a mock-up wall as indicated in Section 01 40 00 Quality Requirements and as indicated on the drawings.

B. Locate as indicated on drawings.

C. Provide all materials required for the mock-up wall.

D. Refer to Section 01 40 00 Quality Requirements for addtional information.

E. Mock-ups may not remain as part of the Work.

1.08 FIELD 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 glazing when ambient temperature is less than 40 degrees F.

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

1.09 WARRANTY

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

B. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use that is not attributed to glass breakage or to 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. Warranty Period: 5 years from date of Substantial Completion.

C. Manufacturer's Special Warranty for Coated-Glass Products: Manufacturer agrees to replace coated-glass units that deteriorate within specified warranty period. Deterioration of coated glass is defined as defects developed from normal use that are not attributed to glass breakage or to maintaining and cleaning coated glass contrary to manufacturer's written instructions. Defects include peeling, cracking, and other indications of deterioration in coating.
   1. Warranty Period: 10 years from date of Substantial Completion.

D. Manufacturer's Special Warranty for Laminated Glass: Manufacturer agrees to replace laminated-glass units that deteriorate within specified warranty period. Deterioration of laminated glass is defined as defects developed from normal use that are not attributed to glass breakage or to maintaining and cleaning laminated glass contrary to manufacturer's written

instructions. Defects include edge separation, delamination materially obstructing vision through glass, and blemishes exceeding those allowed by referenced laminated-glass standard.

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

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Source Limitations for Glass: Obtain from single source from single manufacturer for each glass type.

B. Source Limitations for Glazing Accessories: Obtain from single source from single manufacturer for each product and installation method.

2.02 PERFORMANCE REQUIREMENTS - EXTERIOR GLAZING ASSEMBLIES

A. Provide type and thickness of exterior glazing assemblies to support assembly dead loads, and to withstand live loads caused by positive and negative wind pressure acting normal to plane of glass.
   1. Design Pressure: Calculated in accordance with ASCE 7.
   2. Comply with ASTM E1300 for design load resistance of glass type, thickness, dimensions, and maximum lateral deflection of supported glass.
   3. Provide glass edge support system sufficiently stiff to limit the lateral deflection of supported glass edges to less than 1/175 of their lengths under specified design load.
   4. Glass thicknesses listed are minimum.

B. Weather-Resistive Barrier Seals: Provide completed assemblies that maintain continuity of building enclosure water-resistive barrier, vapor retarder, and/or air barrier.
   1. In conjunction with weather barrier related materials described in other sections, as follows:
   2. To utilize inner pane of multiple pane insulating glass units for continuity of vapor retarder and/or air barrier seal.
   3. To maintain a continuous vapor retarder and/or air barrier throughout glazed assembly from glass pane to heel bead of glazing sealant.

C. Thermal and Optical Performance: Provide exterior glazing products with performance properties as indicated. Performance properties are in accordance with manufacturer's published data as determined with the following procedures and/or test methods:
   1. Center of Glass U-Value: Comply with NFRC 100 using Lawrence Berkeley National Laboratory (LBNL) WINDOW 7 computer program.
   2. Center of Glass Solar Heat Gain Coefficient (SHGC): Comply with NFRC 200 using Lawrence Berkeley National Laboratory (LBNL) WINDOW 7 computer program.
   3. Solar Optical Properties: Comply with NFRC 300 test method.

2.03 GLASS MATERIALS

A. Float Glass: Provide float glass based glazing unless otherwise indicated.
   1. Annealed Type: ASTM C1036, Type I - Transparent Flat, Class 1 - Clear, Quality - Q3.
   2. Kind HS - Heat-Strengthened Type: Complies with ASTM C1048.
   3. Kind FT - Fully Tempered Type: Complies with ASTM C1048.
   4. Fully Tempered Safety Glass: Complies with ANSI Z97.1 or 16 CFR 1201 criteria for safety glazing used in hazardous locations.
   5. Thicknesses: As indicated; provide greater thickness as required for exterior glazing wind load design.

2.04 BASIS OF DESIGN - INSULATING GLASS UNITS

A. Basis of Design - Insulating Glass Units: Vision glazing, with low-e coating.
   1. Applications: Exterior insulating glass glazing unless otherwise indicated.
   2. Space between lites filled with argon.
   3. Total Thickness: 1 inch.

4. Glazing Method: Dry glazing method, gasket glazing.
5. Spacer Color: Black.
6. Edge Seal:
    a. Dual-Sealed System: Provide polyisobutylene sealant as primary seal applied between spacer and glass panes, and silicone, polysulfide, or polyurethane sealant as secondary seal applied around perimeter.
7. Color: Black.
8. Purge interpane space with dry air, hermetically sealed.
9. Capillary Tubes: Provide tubes from air space for insulating glass units without inert type gas that have a change of altitude greater than 2500 feet between point of fabrication and point of installation to permit pressure equalization of air space.
    a. Capillary Tubes: Tubes to remain open and be of length and material type in accordance with insulating glass fabricator's requirements.
10. Outboard Lite: Annealed float glass, 1/4 inch thick, minimum.
    a. Low-E Coating: Vitro Architectural Glass (formerly PPG Glass) Solarban 60 on #2 surface.

2.05 GLAZING UNITS

A. Type G1 - Monolithic Interior Vision Glazing:
1. Applications: Interior glazing unless otherwise indicated.
2. Glass Type: Annealed float glass.
3. Tint: Clear.
4. Thickness: 1/4 inch, nominal.

B. Type G2 - Monolithic Safety Glazing: Non-fire-rated.
1. Applications:
    a. Glazed lites in doors, except fire doors.
    b. Glazed sidelights to doors, except in fire-rated walls and partitions.
    c. Other locations required by applicable federal, state, and local codes and regulations.
    d. Other locations indicated on drawings.
2. Glass Type: Fully tempered safety glass as specified.
3. Tint: Clear.
4. Thickness: 1/4 inch, nominal.

C. Type G3 - Monolithic Safety Glazing: Non-fire-rated.
1. Applications:
    a. Locations indicated on the drawings.
    b. Glass Type: Fully tempered safety glass as specified.
    c. Tint: Clear.
    d. Thickness: 1/2 inch, nominal.

D. Type G5 - Insulating Glass Units: Vision glass, double glazed.
1. Applications: Exterior glazing unless otherwise indicated.
2. Space between lites filled with air.
3. Outboard Lite: Annealed float glass, 1/4 inch thick, minimum.
    a. Tint: Clear
    b. Coating: Low-E (passive type) Vitro Solarban 60, on #2 surface.
4. Inboard Lite: Annealed float glass, 1/4 inch thick, minimum.
    a. Tint: Clear.
5. Total Thickness: 1 inch.
6. Warm edge spacer.
7. Thermal Transmittance (U-Value), Winter - Center of Glass: 0.29, nominal.
8. Visible Light Transmittance (VLT): 79 percent, nominal.
9. Visible Light Reflectance: 11% exterior.
10. Solar Heat Gain Coefficient (SHGC): 0.39, nominal.

11. Glazing Method: Dry glazing method, gasket glazing.

E. Type G6 - Insulating Glass Units: Safety glazing.
   1. Applications:
      a. Glazed lites in exterior doors.
      b. Glazed sidelights and panels next to doors.
      c. Other locations required by applicable federal, state, and local codes and regulations.
      d. Other locations indicated on drawings.
   2. Space between lites filled with argon.
   3. Glass Type: Same as Type G5 except use fully tempered float glass for both outboard and inboard lites.
   4. Tint: Match Type G5.
   5. Total Thickness: 1 inch.
   6. Warm-edge spacer.
   7. Thermal Transmittance (U-Value), Winter - Center of Glass: 0.29, nominal.
   8. Visible Light Transmittance (VLT): 79 percent, nominal.
   9. Visible Light Reflectance: 11% exterior.
   10. Solar Heat Gain Coefficient (SHGC): 0.39, nominal.
   11. Glazing Method: Dry glazing method, gasket glazing.

2.06 ACCESSORIES

A. Setting Blocks: Silicone, with 80 to 90 Shore A durometer hardness; ASTM C864 Option II. Length of 0.1 inch for each square foot of glazing or minimum 4 inch by width of glazing rabbet space minus 1/16 inch by height to suit glazing method and pane weight and area.

B. Glazing Splines: Resilient silicone extruded shape to suit glazing channel retaining slot; ASTM C864 Option II; color black.

PART 3 EXECUTION

3.01 VERIFICATION OF CONDITIONS

A. Verify that openings for glazing are correctly sized and within tolerances, including those for size, squareness, and offsets at corners.

B. Verify that surfaces of glazing channels or recesses are clean, free of obstructions that may impede moisture movement, weeps are clear, and support framing is ready to receive glazing system.

C. Proceed with glazing system installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

A. Clean contact surfaces with appropriate solvent and wipe dry within maximum of 24 hours before glazing. Remove coatings that are not tightly bonded to substrates.

B. Seal porous glazing channels or recesses with substrate compatible primer or sealer.

C. Prime surfaces scheduled to receive sealant where required for proper sealant adhesion.

3.03 INSTALLATION, GENERAL

A. Install glazing in compliance with written instructions of glass, gaskets, and other glazing material manufacturers, unless more stringent requirements are indicated, including those in glazing referenced standards.

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

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

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

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

F. Prevent glass from contact with any contaminating substances that may be the result of construction operations such as, and not limited to the following; weld splatter, fire-safing, plastering, mortar droppings, and paint.

3.04 INSTALLATION - DRY GLAZING METHOD (GASKET GLAZING)

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

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

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

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

3.05 CLEANING

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

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

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

D. Clean glass on both exposed surfaces not more than 4 days prior to Date of Substantial Completion in accordance with glass manufacturer's written recommendations.

3.06 PROTECTION

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

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

END OF SECTION

SECTION 09 05 61
COMMON WORK RESULTS FOR FLOORING PREPARATION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. This section applies to floors identified in Contract Documents that are receiving the following types of floor coverings:
   1. Resilient tile and sheet.
   2. Carpet tile.
   3. Thin-set ceramic tile and stone tile.

B. Removal of existing floor coverings.

C. Preparation of new and existing concrete floor slabs for installation of floor coverings.

D. Testing of concrete floor slabs for moisture and alkalinity (pH).

E. Remediation of concrete floor slabs due to unsatisfactory moisture or alkalinity (pH) conditions.
   1. Contractor shall perform all specified remediation of concrete floor slabs. If such remediation is indicated by testing agency's report and is due to a condition not under Contractor's control or could not have been predicted by examination prior to entering into the contract, a contract modification will be issued.

F. Patching compound.

G. Remedial floor coatings.

H. Remedial floor treatment.

1.02 REFERENCE STANDARDS

A. ASTM C109/C109M - Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 50 mm [2 in.] Cube Specimens); 2026a.

B. ASTM C472 - Standard Test Methods for Physical Testing of Gypsum, Gypsum Plasters, and Gypsum Concrete; 2020.

C. ASTM D4259 - Standard Practice for Preparation of Concrete by Abrasion Prior to Coating Application; 2024.

D. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring; 2022.

E. ASTM F1869 - Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride; 2023.

F. ASTM F2170 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes; 2019a.

G. RFCI (RWP) - Recommended Work Practices for Removal of Resilient Floor Coverings; 2018.

1.03 ADMINISTRATIVE REQUIREMENTS

A. Coordinate scheduling of cleaning and testing, so that preliminary cleaning has been completed for at least 24 hours prior to testing.

1.04 SUBMITTALS

A. Visual Observation Report: For existing floor coverings to be removed.

B. Floor Covering and Adhesive Manufacturers' Product Literature: For each specific combination of substrate, floor covering, and adhesive to be used; showing:
   1. Moisture and alkalinity (pH) limits and test methods.
   2. Manufacturer's required bond/compatibility test procedure.

C. Testing Agency's Report:
   1. Description of areas tested; include floor plans and photographs if helpful.
   2. Summary of conditions encountered.

3. Moisture and alkalinity (pH) test reports.
4. Copies of specified test methods.
5. Recommendations for remediation of unsatisfactory surfaces.
6. Submit report to Architect.
7. Submit report not more than two business days after conclusion of testing.

D. Adhesive Bond and Compatibility Test Report.

E. Copy of RFCI (RWP).

1.05 QUALITY ASSURANCE

A. Moisture and alkalinity (pH) testing shall be performed by an independent testing agency employed and paid by Contractor.

B. Testing Agency Qualifications: Independent testing agency experienced in the types of testing specified.
1. Submit evidence of experience consisting of at least 3 test reports of the type required, with project Owner's project contact information.

C. Contractor's Responsibility Relating to Independent Agency Testing:
1. Provide access for and cooperate with testing agency.
2. Confirm date of start of testing at least 10 days prior to actual start.
3. Allow at least 4 business days on site for testing agency activities.
4. Achieve and maintain specified ambient conditions.
5. Notify Architect when specified ambient conditions have been achieved and when testing will start.

1.06 FIELD CONDITIONS

A. Maintain ambient temperature in spaces where concrete testing is being performed, and for at least 48 hours prior to testing, at not less than 65 degrees F or more than 85 degrees F.

B. Maintain relative humidity in spaces where concrete testing is being performed, and for at least 48 hours prior to testing, at not less than 40 percent and not more than 60 percent.

PART 2 PRODUCTS

2.01 MATERIALS

A. Patching Compound: Floor covering manufacturer's recommended product, suitable for conditions, and compatible with adhesive and floor covering. In the absence of any recommendation from flooring manufacturer, provide a product with the following characteristics:
1. Cementitious moisture-, mildew-, and alkali-resistant compound, compatible with floor, floor covering, and floor covering adhesive, and capable of being feathered to nothing at edges.
2. Compressive Strength: 3000 psi, minimum, after 28 days, when tested in accordance with ASTM C109/C109M or ASTM C472, whichever is appropriate.
3. Products:
   a. ARDEX Engineered Cements; ARDEX Feather Finish: www.ardexamericas.com/#sle.
   b. Substitutions: See Section 01 60 00 - Product Requirements.

B. Alternate Flooring Adhesive: Floor covering manufacturer's recommended product, suitable for the moisture and pH conditions present; low-VOC. In the absence of any recommendation from flooring manufacturer, provide a product recommended by adhesive manufacturer as suitable for substrate and floor covering and for conditions present.

C. Remedial Floor Treatment: Penetrating, spray-applied, silicate-based product resistant to water vapor transmission meeting flooring manufacturer's emission limits, resistant to alkalinity (pH) level found, and suitable for flooring adhesion without further treatment.

PART 3 EXECUTION

3.01 CONCRETE SLAB PREPARATION

A. Perform following operations in the order indicated:
   1. Existing concrete slabs (on-grade and elevated) with existing floor coverings:
      a. Visual observation of existing floor covering, for adhesion, water damage, alkaline deposits, and other defects.
      b. Removal of existing floor covering.
   2. Existing concrete slabs with coatings or penetrating sealers/hardeners/dustproofers:
      a. Remove existing coatings and curing agents from surface according to recommendations of remedial coating manufacturer.
      b. Prepare surface according to recommendations of remedial coating manufacturer and according to ASTM D4259.
   3. Preliminary cleaning.
   4. Moisture vapor emission tests; 3 tests in the first 1000 square feet and one test in each additional 1000 square feet, unless otherwise indicated or required by flooring manufacturer.
   5. Internal relative humidity tests; in same locations as moisture vapor emission tests, unless otherwise indicated.
   6. Alkalinity (pH) tests; in same locations as moisture vapor emission tests, unless otherwise indicated.
   7. Specified remediation, if required.
   8. Patching, smoothing, and leveling, as required.
   9. Other preparation specified.
   10. Adhesive bond and compatibility test.
   11. Protection.

3.02 REMOVAL OF EXISTING FLOOR COVERINGS

A. Comply with local, State, and federal regulations and recommendations of RFCI (RWP), as applicable to floor covering being removed.

B. Dispose of removed materials in accordance with local, State, and federal regulations and as specified.

3.03 PRELIMINARY CLEANING

A. Clean floors of dust, solvents, paint, wax, oil, grease, asphalt, residual adhesive, adhesive removers, film-forming curing compounds, sealing compounds, alkaline salts, excessive laitance, mold, mildew, and other materials that might prevent adhesive bond.

B. Do not use solvents or other chemicals for cleaning.

3.04 MOISTURE VAPOR EMISSION TESTING

A. Where the floor covering manufacturer's requirements conflict with either the referenced test method or this specification, comply with the manufacturer's requirements.

B. Where this specification conflicts with the referenced test method, comply with the requirements of this section.

C. Test in accordance with ASTM F1869 and as follows.

D. Plastic sheet test and mat bond test may not be substituted for the specified ASTM test method, as those methods do not quantify the moisture content sufficiently.

E. In the event that test values exceed floor covering manufacturer's limits, perform remediation as indicated. In the absence of manufacturer limits, perform remediation if test values exceed 3 pounds per 1000 square feet per 24 hours.

F. Report: Report the information required by the test method.

3.05 INTERNAL RELATIVE HUMIDITY TESTING

A. Where the floor covering manufacturer's requirements conflict with either the referenced test method or this specification, comply with the manufacturer's requirements.

B. Where this specification conflicts with the referenced test method, comply with the requirements of this section.

C. Test in accordance with ASTM F2170 Procedure A and as follows.

D. Testing with electrical impedance or resistance apparatus may not be substituted for the specified ASTM test method, as the values determined are not comparable to the ASTM test values and do not quantify the moisture content sufficiently.

E. In the event that test values exceed floor covering manufacturer's limits, perform remediation as indicated. In the absence of manufacturer limits, perform remediation if any test value exceeds 75 percent relative humidity.

F. Report: Report the information required by the test method.

3.06 ALKALINITY TESTING

A. Where the floor covering manufacturer's requirements conflict with either the referenced test method or this specification, comply with the manufacturer's requirements.

B. The following procedure is the equivalent of that described in ASTM F710, repeated here for the Contractor's convenience.

1. Use a wide range alkalinity (pH) test paper, its associated chart, and distilled or deionized water.
2. Place several drops of water on a clean surface of concrete, forming a puddle approximately 1 inch in diameter. Allow the puddle to set for approximately 60 seconds, then dip the alkalinity (pH) test paper into the water, remove it, and compare immediately to chart to determine alkalinity (pH) reading.
3. Use of a digital pH meter with probe is acceptable; follow meter manufacturer's instructions.

C. In the event that test values exceed floor covering manufacturer's limits, perform remediation as indicated. In the absence of manufacturer limits, perform remediation if alkalinity (pH) test value is over 10.

3.07 PREPARATION

A. See individual floor covering section(s) for additional requirements.

B. Comply with recommendations of testing agency.

C. Comply with requirements and recommendations of floor covering manufacturer.

D. Fill and smooth surface cracks, grooves, depressions, control joints and other non-moving joints, and other irregularities with patching compound.

E. Do not fill expansion joints, isolation joints, or other moving joints.

3.08 ADHESIVE BOND AND COMPATIBILITY TESTING

A. Comply with requirements and recommendations of floor covering manufacturer.

3.09 APPLICATION OF REMEDIAL FLOOR TREATMENT

A. Comply with requirements and recommendations of treatment manufacturer.

3.10 PROTECTION

A. Cover prepared floors with building paper or other durable covering.

END OF SECTION

SECTION 09 21 16
GYPSUM BOARD ASSEMBLIES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Performance criteria for gypsum board assemblies.

B. Metal stud wall framing.

C. Metal channel ceiling framing.

D. Acoustic insulation.

E. Cementitious backing board.

F. Gypsum wallboard.

G. Joint treatment and accessories.

1.02 REFERENCE STANDARDS

A. AISI S100 - North American Specification for the Design of Cold-Formed Steel Structural Members; 2024.

B. AISI S201 - North American Standard for Cold-Formed Steel Framing - Product Data; 2017.

C. AISI S220 - North American Standard for Cold-Formed Steel Nonstructural Framing; 2020.

D. AISI S240 - North American Standard for Cold-Formed Steel Structural Framing; 2020.

E. ANSI A108.11 - American National Standard Specifications for Interior Installation of Cementitious Backer Units; 2023.

F. ANSI A118.9 - American National Standard Specifications for Test Methods and Specifications for Cementitious Backer Units; 2023.

G. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2025a.

H. ASTM A1003/A1003M - Standard Specification for Steel Sheet, Carbon, Metallic- and Nonmetallic-Coated for Cold-Formed Framing Members; 2025.

I. ASTM C1007 - Standard Specification for Installation of Load Bearing (Transverse and Axial) Steel Studs and Related Accessories; 2020 (Reapproved 2024).

J. ASTM C475/C475M - Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board; 2017 (Reapproved 2022).

K. ASTM C665 - Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing; 2024.

L. ASTM C754 - Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products; 2020.

M. ASTM C840 - Standard Specification for Application and Finishing of Gypsum Board; 2025.

N. ASTM C1002 - Standard Specification for Steel Self-Piercing Tapping Screws for Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs; 2022.

O. ASTM C1325 - Standard Specification for Fiber-Mat Reinforced Cementitious Backer Units; 2025.

P. ASTM C1396/C1396M - Standard Specification for Gypsum Board; 2024.

Q. ASTM D3273 - Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber; 2021.

R. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2026a.

S. ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements; 2023.

T. ASTM E413 - Classification for Rating Sound Insulation; 2022.

U. GA-216 - Application and Finishing of Gypsum Panel Products; 2024.

V. GA-600 - Fire Resistance and Sound Control Design Manual; 2024.

1.03 ADMINISTRATIVE REQUIREMENTS

A. Coordination: Coordinate the installation of gypsum board assemblies with size, location, and installation of service utilities.

B. Sequencing: Install service utilities in an orderly and expeditious manner.

1.04 SUBMITTALS

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

B. Product Data:
   1. Provide data on metal framing, gypsum board, accessories, and joint finishing system.
   2. Provide manufacturer's data on partition head to structure connectors, showing compliance with requirements.

C. Test Reports: For stud framing products that do not comply with AISI S220 or ASTM C754, provide independent laboratory reports showing maximum stud heights at required spacings and deflections.

1.05 QUALITY ASSURANCE

A. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years of documented experience.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Store gypsum products and accessories indoors and keep above freezing. Elevate boards above floor, on nonwicking supports, in accordance with manufacturer's recommendations.

PART 2 PRODUCTS

2.01 GYPSUM BOARD ASSEMBLIES

A. Provide completed assemblies complying with ASTM C840 and GA-216.

B. Fire-Resistance-Rated Assemblies: Provide completed assemblies complying with applicable code.

2.02 METAL FRAMING MATERIALS

A. Material and Product Requirements: AISI S201 and AISI S220.

B. Steel Sheet: ASTM A1003/A1003M, subject to the ductility limitations indicated in AISI S220 or equivalent.
   1. Structural Grade: As required to meet design criteria.
   2. Corrosion Protection Coating Designation: G40, or equivalent in accordance with AISI S220.

C. Nonstructural Framing System Components: AISI S220; galvanized sheet steel, of size and properties necessary to comply with ASTM C754 for the spacing indicated, with maximum deflection of wall framing of L/120 at 5 psf.
   1. Studs: C-shaped with knurled or embossed faces.
   2. Runners: U shaped, sized to match studs.
   3. Ceiling Channels: C-shaped.
   4. Flexible Track: Flexible framing consisting of adjustable leg straps and pivoting, hinged track brackets designed to provide curved framing assemblies of varying radii.

D. Partition Head to Structure Connections: Provide mechanical anchorage devices that accommodate deflection and prevent rotation of studs while maintaining structural performance of partition.
   1. Structural Performance: Maintain lateral load resistance and vertical movement capacity required by applicable code, when evaluated in accordance with AISI S100.

2. Material: ASTM A653/A653M steel sheet, SS Grade 50, with G60 hot-dip galvanized coating.
3. Provide components UL-listed for use in UL-listed fire-resistance-rated head of partition joint systems indicated on drawings.
4. Provide mechanical anchorage devices as described above that accommodate deflection while maintaining the fire-resistance rating of the wall assembly.

E. Deflection and Firestop Track: Intumescent strip factory-applied to track flanges expands when exposed to heat or flames to provide a perimeter joint seal.

2.03 BOARD MATERIALS

A. Manufacturers - Gypsum-Based Board:
1. American Gypsum Company: www.americangypsum.com/#sle.
2. CertainTeed Corporation: www.certainteed.com/#sle.
3. Georgia-Pacific Gypsum: www.gpgypsum.com/#sle.
4. Gold Bond Building Products, LLC provided by National Gypsum Company: www.goldbondbuilding.com/#sle.
5. USG Corporation: www.usg.com/#sle.

B. Gypsum Wallboard: Paper-faced gypsum panels as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.
1. Application: Use for vertical surfaces and ceilings, unless otherwise indicated.
2. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.
   a. Mold resistant board is required at all locations.
3. At Assemblies Indicated with Fire-Resistance Rating: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X board, UL or WH listed.
4. Thickness:

C. Backing Board For Wet Areas: One of the following products:
1. Application: Surfaces behind tile in wet areas, including tub and shower surrounds and shower ceilings.
2. Application: Horizontal surfaces behind tile in wet areas including countertops and throughout toilet rooms.
3. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.
4. ANSI Cement-Based Board: Non-gypsum-based; aggregated Portland cement panels with glass fiber mesh embedded in front and back surfaces complying with ANSI A118.9 or ASTM C1325.
   a. Thickness: 5/8 inch.

D. Backing Board For Non-Wet Areas: Water-resistant gypsum backing board as defined in ASTM C1396/C1396M; sizes to minimum joints in place; ends square cut.
1. Application: Vertical surfaces behind thinset tile, except in wet areas.
2. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.
3. At Assemblies Indicated with Fire-Resistance Rating: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X board, UL or WH listed.
4. Type: Regular and Type X, in locations indicated.
5. Type X Thickness: 5/8 inch.
6. Regular Board Thickness: 1/2 inch.
7. Edges: Tapered.

2.04 GYPSUM BOARD ACCESSORIES

A. Acoustic Insulation: ASTM C665; preformed mineral-fiber, friction fit type, unfaced; thickness 2 inches.

B. Fire and Sound Attenuating Insulation: Sprayed cellulose fire-rated material for cavities in wall assemblies.
1. Surface Burning Characteristics: Provide assemblies with Class I rating, when tested in accordance with ASTM E84.

2. Sound Transmission Class (STC): 56, calculated in accordance with ASTM E413, based on tests conducted in accordance with ASTM E90.

C. Joint Materials: ASTM C475/C475M and as recommended by gypsum board manufacturer for project conditions.
   1. Fiberglass Tape: 2 inch wide, coated glass fiber tape for joints and corners, except as otherwise indicated.
   2. Joint Compound: Setting type, field-mixed.

D. Finishing Compound: Surface coat and primer, takes the place of skim coating.

E. Screws for Fastening of Gypsum Panel Products to Cold-Formed Steel Studs Less than 0.033 inches in Thickness and Wood Members: ASTM C1002; self-piercing tapping screws, corrosion-resistant.

F. Anchorage to Substrate: Tie wire, nails, screws, and other metal supports, of type and size to suit application; to rigidly secure materials in place.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that project conditions are appropriate for work of this section to commence.

3.02 FRAMING INSTALLATION

A. Metal Framing: Install in accordance with ASTM C754 and manufacturer's instructions.

B. Suspended Ceilings and Soffits: Space framing and furring members as indicated.

C. Studs: Space studs as indicated.
   1. Extend partition framing to structure where indicated and to ceiling in other locations.
   2. Partitions Terminating at Structure: Attach top runner to structure, maintain clearance between top of studs and structure, and connect studs to track using specified mechanical devices in accordance with manufacturer's instructions; verify free movement of top of stud connections; do not leave studs unattached to track.

D. Openings: Reinforce openings as required for weight of doors or operable panels, using not less than double studs at jambs.

E. Furring for Fire-Resistance Ratings: Install as required for fire-resistance ratings indicated and to GA-600 requirements.

F. Blocking: Install mechanically fastened steel sheet blocking for support of:
   1. Wall-mounted cabinets.
   2. Plumbing fixtures.
   3. Toilet partitions.
   4. Toilet accessories.
   5. Wall-mounted door hardware.

3.03 ACOUSTIC ACCESSORIES INSTALLATION

A. Acoustic Insulation: Place tightly within spaces, around cut openings, behind and around electrical and mechanical items within partitions, and tight to items passing through partitions.

B. Acoustic Sealant: Install in accordance with manufacturer's instructions.

3.04 BOARD INSTALLATION

A. Comply with ASTM C840, GA-216, and manufacturer's instructions. Install to minimize butt end joints, especially in highly visible locations.

B. Fire-Resistance-Rated Construction: Install gypsum board in strict compliance with requirements of assembly listing.

C. Exposed Gypsum Board in Interior Wet Areas: Seal joints, cut edges, and holes with water-resistant sealant.

D. Cementitious Backing Board: Install over steel framing members and plywood substrate where indicated, in accordance with ANSI A108.11 and manufacturer's instructions.

E. Installation on Metal Framing: Use screws for attachment of gypsum board.

3.05 INSTALLATION OF TRIM AND ACCESSORIES

A. Control Joints: Place control joints consistent with lines of building spaces and as indicated on drawings.

B. Corner Beads: Install at external corners, using longest practical lengths.

3.06 JOINT TREATMENT

A. Finish gypsum board in accordance with levels defined in ASTM C840, as follows:
   1. Level 4: Walls and ceilings to receive paint finish or wall coverings, unless otherwise indicated.
   2. Level 1: Fire-resistance-rated wall areas above finished ceilings, whether or not accessible in the completed construction.

B. Tape, fill, and sand exposed joints, edges, and corners to produce smooth surface ready to receive finishes.
   1. Feather coats of joint compound so that camber is maximum 1/32 inch.

C. Fill and finish joints and corners of cementitious backing board as recommended by manufacturer.

3.07 TOLERANCES

A. Maximum Variation of Finished Gypsum Board Surface from True Flatness: 1/8 inch in 10 feet in any direction.

3.08 PROTECTION

A. Protect installed gypsum board assemblies from subsequent construction operations.

END OF SECTION

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SECTION 09 30 00
TILING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Tile for floor applications.

B. Tile for wall applications.

C. Cementitious backer board as tile substrate.

D. Non-ceramic trim.

1.02 REFERENCE STANDARDS

A. ANSI A108/A118/A136 - American National Standard Specifications for the Installation of Ceramic Tile (Compendium); 2024.

B. ANSI A108.11 - American National Standard Specifications for Interior Installation of Cementitious Backer Units; 2023.

C. ANSI A108.19 - American National Standard Specifications for Interior Installation of Gauged Porcelain Tiles and Gauged Porcelain Tile Panels/Slabs by the Thin-Bed Method Bonded with Modified Dry-Set Cement Mortar or Improved Modified Dry-Set Cement Mortar; 2020.

D. ANSI A108.20 - American National Standard Specifications for Exterior Installation of Gauged Porcelain Tiles and Gauged Porcelain Tile Panels/Slabs; 2020.

E. ANSI A118.9 - American National Standard Specifications for Test Methods and Specifications for Cementitious Backer Units; 2023.

F. ANSI A118.10 - American National Standard Specifications for Load Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone Installation; 2023.

G. ANSI A118.15 - American National Standard Specifications for Improved Modified Dry-Set Cement Mortar; 2023.

H. TCNA (HB) - Handbook for Ceramic, Glass, and Stone Tile Installation; 2026.

I. TCNA (HB-GP) - Handbook for Gauged Porcelain Tiles and Gauged Porcelain Tile Panels/Slabs Installation; 2025-2026.

1.03 ADMINISTRATIVE REQUIREMENTS

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

1.04 SUBMITTALS

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

B. Product Data: Provide manufacturers' data sheets on tile, mortar, grout, and accessories. Include instructions for using grouts and adhesives.

C. Samples: Mount tile and apply grout on two plywood panels, minimum 18 by 18 inches in size illustrating pattern, color variations, and grout joint size variations.

1.05 QUALITY ASSURANCE

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

1.06 DELIVERY, STORAGE, AND HANDLING

A. See Section 01 74 19 - Construction Waste Management and Disposal for packaging waste requirements.

B. Protect adhesives from freezing or overheating in accordance with manufacturer's instructions.

1.07 FIELD CONDITIONS

A. Do not install solvent-based products in an unventilated environment.

B. Maintain ambient and substrate temperature above 50 degrees F and below 100 degrees F during installation and curing of setting materials.

PART 2 PRODUCTS

2.01 TILE

A. Floor Tile:
   1. Product(s) as indicated on the drawings.
   2. Substitutions: Not Permitted

B. Wall Tile:
   1. Product(s) as indicated on the drawings.
   2. Substitions: Not Permitted

2.02 TRIM AND ACCESSORIES

A. Non-Ceramic Trim: Satin natural anodized extruded aluminum, style and dimensions to suit application, set with tile mortar or adhesive.
   1. Products:
      a. Schluter-Systems: Product(s) as indicated on the drawings..
      b. Substitutions: See Section 01 60 00 - Product Requirements.

2.03 SETTING MATERIALS

A. Provide setting and grout materials from same manufacturer.

B. Products as indicated on the drawings.
   1. Sustitutions: See Section 01 60 00 Product Requirements.

C. Improved Latex-Portland Cement Mortar Bond Coat: ANSI A118.15.
   1. Applications: Use where large and heavy tile mortar is indicated on drawings.
   2. Products:
      a. Mapei Corporation; Granirapid System: www.mapei.com/#sle.
      b. Substitutions: See Section 01 60 00 - Product Requirements.

2.04 GROUTS

A. Provide setting and grout materials from same manufacturer.

B. Product(s) as indicated on the drawings.
   1. Substitions: See Section 01 60 00 Product Requirements.

2.05 MAINTENANCE MATERIALS

A. Tile Sealant: Gunnable, silicone, siliconized acrylic, modified silane polymer, or urethane sealant; moisture- and mildew-resistant type.
   1. Applications: Between tile and plumbing fixtures.
   2. Color: As selected by Architect from manufacturer's full line.
   3. Products:
      a. Mapei Corporation; Mapesil T Plus: www.mapei.com/#sle.
      b. Substitutions: See Section 01 60 00 - Product Requirements.

2.06 ACCESSORY MATERIALS

A. Waterproofing Membrane: Specifically designed for bonding to cementitious substrate under thick mortar bed or thin-set tile; complying with ANSI A118.10.
   1. Fluid or Trowel Applied Type:
      a. Material: Synthetic rubber or Acrylic.
      b. Thickness: 25 mils, minimum, dry film thickness.
      c. Products:
         1) Mapei Corporation; Mapelastic AquaDefense: www.mapei.com/#sle.
         2) Substitutions: See Section 01 60 00 - Product Requirements.

B. Backer Board: Cementitious type complying with ANSI A118.9; high density, glass fiber reinforced, 7/16 inch thick; 2-inch wide coated glass fiber tape for joints and corners.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify wall surfaces are smooth and flat within tolerances specified for that type of work, are dust-free, and are ready to receive tile.

3.02 PREPARATION

A. Vacuum clean surfaces and damp clean.

B. Seal substrate surface cracks with filler.

C. Install cementitious backer board in accordance with ANSI A108.11 and board manufacturer's instructions. Tape joints and corners, cover with skim coat of setting material to feather edge.

D. Prepare substrate surfaces for adhesive installation in accordance with adhesive manufacturer's instructions.

3.03 INSTALLATION - GENERAL

A. Install tile and grout in accordance with applicable requirements of ANSI A108/A118/A136, manufacturer's instructions, and TCNA (HB) or TCNA (HB-GP) recommendations, as applicable.

B. Lay tile to pattern indicated on drawings. Do not interrupt tile pattern through openings.

C. Cut and fit tile to penetrations through tile, leaving sealant joint space. Form corners and bases neatly. Align floor joints.

D. Place tile joints uniform in width, subject to variance in tolerance allowed in tile size. Make grout joints without voids, cracks, excess mortar or excess grout, or too little grout.

E. Form internal angles square and external angles bullnosed.

F. Install non-ceramic trim in accordance with manufacturer's instructions.

G. Sound tile after setting. Replace hollow sounding units.

H. Keep control and expansion joints free of mortar, grout, and adhesive.

I. Prior to grouting, allow installation to completely cure; minimum of 48 hours.

J. Grout tile joints unless otherwise indicated on drawings. Use standard grout unless otherwise indicated on drawings.

K. At changes in plane and tile-to-tile control joints, use tile sealant instead of grout, with either bond breaker tape or backer rod as appropriate to prevent three-sided bonding.

3.04 INSTALLATION - WALL TILE

A. On exterior walls, install in accordance with TCNA (HB) Method W244E, thin-set over cementitious backer units, with waterproofing membrane.

B. Over cementitious backer units on studs, install in accordance with TCNA (HB) Method W244C, using membrane at toilet rooms, kitchens, locker rooms, and _____.

3.05 CLEANING

A. Clean tile and grout surfaces.

3.06 PROTECTION

A. Do not permit traffic over finished floor surface for 4 days after installation.

END OF SECTION

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SECTION 09 65 00
RESILIENT FLOORING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Resilient tile flooring.

B. Resilient base.

C. Installation accessories.

1.02 RELATED REQUIREMENTS

A. Section 09 05 61 - Common Work Results for Flooring Preparation: Removal of existing floor coverings, cleaning, and preparation.

1.03 REFERENCE STANDARDS

1.04 SUBMITTALS

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

B. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.

C. Verification Samples: Submit two samples, 18 by 18 inch in size illustrating color and pattern for each resilient flooring product specified.

D. Concrete Subfloor Test Report: Submit a copy of the moisture and alkalinity (pH) test reports.

E. Certification: Prior to installation of flooring, submit written certification by flooring manufacturer and adhesive manufacturer that condition of subfloor is acceptable.

F. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning, stripping, and re-waxing.

1.05 DELIVERY, STORAGE, AND HANDLING

1.06 FIELD CONDITIONS

PART 2 PRODUCTS

2.01 TILE FLOORING

A. Product(s) as indicated on the drawings.

B. Substitutions: See Section 01 60 00 Product Requirements

C. Luxury Vinyl Tile
   1. Manufacturer, product, color and installation pattern: As indicated on the drawings
   2. Substitutions: Not Permitted

2.02 RESILIENT BASE

A. Product(s) as indicated on the drawings.

B. Substitutions: See Section 01 60 00 Product Requirements

2.03 ACCESSORIES

A. Subfloor Filler: White premix latex; type recommended by adhesive material manufacturer.

B. Primers, Adhesives, and Seam Sealer: Waterproof; types recommended by flooring manufacturer.

C. Adhesive for Vinyl Flooring: As recommended by the flooring material manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that surfaces are flat to tolerances acceptable to flooring manufacturer, free of cracks that might telegraph through flooring, clean, dry, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of flooring to substrate.

B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive resilient base.

C. Cementitious Subfloor Surfaces: Verify that substrates are ready for resilient flooring installation by testing for moisture and alkalinity (pH).
   1. Test in accordance with Section 09 05 61.
   2. Obtain instructions if test results are not within limits recommended by resilient flooring manufacturer and adhesive materials manufacturer.

D. Verify that required floor-mounted utilities are in correct location.

3.02 PREPARATION

A. Prepare floor substrates as recommended by flooring and adhesive manufacturers.

B. Remove subfloor ridges and bumps. Fill minor low spots, cracks, joints, holes, and other defects with subfloor filler to achieve smooth, flat, hard surface.

C. Prohibit traffic until filler is fully cured.

D. Apply primer as required to prevent "bleed-through" or interference with adhesion by substances that cannot be removed.

3.03 INSTALLATION - GENERAL

A. Starting installation constitutes acceptance of subfloor conditions.

B. Install in accordance with manufacturer's written instructions.

C. Adhesive-Applied Installation:
   1. Fit joints and butt seams tightly.
   2. Set flooring in place, press with heavy roller to attain full adhesion.

3.04 INSTALLATION - TILE FLOORING

A. Mix tile from container to ensure shade variations are consistent when tile is placed, unless otherwise indicated in manufacturer's installation instructions.

3.05 INSTALLATION - RESILIENT BASE

A. Fit joints tightly and make vertical. Maintain minimum dimension of 18 inches between joints.

B. Install base on solid backing. Bond tightly to wall and floor surfaces.

3.06 CLEANING

A. Remove excess adhesive from floor, base, and wall surfaces without damage.

B. Clean in accordance with manufacturer's written instructions.

3.07 PROTECTION

A. Prohibit traffic on resilient flooring for 48 hours after installation.

END OF SECTION

SECTION 09 67 00
FLUID-APPLIED FLOORING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Fluid-applied flooring and base.

1.02 RELATED REQUIREMENTS

A. Section 09 05 61 - Common Work Results for Flooring Preparation: Removal of existing floor coverings, cleaning, and preparation.

1.03 REFERENCE STANDARDS

1.04 SUBMITTALS

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

B. Product Data: Provide data on specified products, describing physical and performance characteristics; sizes, patterns and colors available.

C. Samples: Submit two samples, 6 by 6 inch in size illustrating color and pattern for each floor material for each color specified.

D. Concrete Subfloor Test Report: Submit a copy of the moisture and alkalinity (pH) test reports.

E. Manufacturer's Installation Instructions: Indicate special procedures, perimeter conditions requiring special attention, and application rate for each coat.

F. Manufacturer's Qualification Statement.

G. Applicator's Qualification Statement.

H. Maintenance Data: Include maintenance procedures, recommended maintenance materials, procedures for stain removal, repairing surface, and suggested schedule for cleaning.

I. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
   1. See Section 01 60 00 - Product Requirements, for additional provisions.
   2. Extra Top Coat Materials: 2 gallons.

1.05 QUALITY ASSURANCE

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

1.06 MOCK-UPS

A. Construct mock-up(s) of fluid applied flooring to serve as basis for evaluation of texture and workmanship.
   1. Number of Mock-Ups to be Prepared: One.
   2. Use same materials and methods for use in the work.
   3. Locate where directed.
   4. Minimum Size: 48 inches by 48 inches.

B. Obtain approval of mock-up by Architect before proceeding with work.

C. Approved mock-up may remain as part of the work.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Store resin materials in a dry, secure area.

B. Store materials for three days prior to installation in area of installation to achieve temperature stability.

1.08 FIELD CONDITIONS

A. Maintain minimum temperature in storage area of 55 degrees F.

B. Store materials in area of installation for minimum period of 24 hours prior to installation.

C. Maintain ambient temperature required by manufacturer 72 hours prior to, during, and 24 hours after installation of materials.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Fluid-Applied Flooring:
   1. Tnemec Company, Inc; Stratashield Decofleck: www.tnemec.com/#sle.
      a. Refer the finish schedule on the drawings for additional details.
   2. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 ACCESSORIES

A. Base Caps: Zinc with projecting base of 1/8 inch; color as selected.

B. Cant Strips: Molded of flooring resin material.

C. Subfloor Filler: Type recommended by fluid-applied flooring manufacturer.

D. Primer: Type recommended by fluid-applied flooring manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that subfloor surfaces are smooth and flat within the tolerances specified for that type of work and are ready to receive flooring.

B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive flooring.

C. Verify that subfloor surfaces are dust-free and free of substances that could impair bonding of materials to subfloor surfaces.

D. Cementitious Subfloor Surfaces: Verify that substrates are ready for fluid-applied flooring installation by testing for moisture and alkalinity (pH).
   1. Obtain instructions if test results are not within limits recommended by fluid-applied flooring manufacturer.

E. Verify that required floor-mounted utilities are in correct location.

3.02 PREPARATION

A. Remove subfloor ridges and bumps. Fill low spots, cracks, joints, holes, and other defects with subfloor filler.

B. Apply, trowel, and float filler to achieve smooth, flat, hard surface. Grind irregularities above the surface level. Prohibit traffic until filler is cured.

C. Vacuum clean substrate.

D. Apply primer to surfaces required by flooring manufacturer.

3.03 INSTALLATION - FLOORING

A. Apply in accordance with manufacturer's instructions.

B. Apply each coat to minimum thickness required by manufacturer.

C. Finish to smooth level surface.

D. Cove at vertical surfaces.

3.04 PROTECTION

A. Prohibit traffic on floor finish for 48 hours after installation.

B. Barricade area to protect flooring until fully cured.

END OF SECTION

SECTION 09 68 13
TILE CARPETING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Carpet tile, fully adhered.

B. Walk-off carpet tile, fully adhered.

1.02 RELATED REQUIREMENTS

A. Section 09 05 61 - Common Work Results for Flooring Preparation: Removal of existing floor coverings, cleaning, and preparation.

1.03 SUBMITTALS

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

B. Product Data: Provide data on specified products, describing physical and performance characteristics; sizes, patterns, colors available, and method of installation.

C. Samples: Submit two carpet tiles illustrating color and pattern design for each carpet color selected.

D. Manufacturer's Installation Instructions: Indicate special procedures, perimeter conditions requiring special attention, and adhesive application procedures.

E. Concrete Subfloor Test Report: Submit a copy of the moisture and alkalinity (pH) test reports.

F. Manufacturer's Qualification Statement.

G. Installer's Qualification Statement.

H. Operation and Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning.

I. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
   1. See Section 01 60 00 - Product Requirements, for additional provisions.
   2. Extra Carpet Tiles: Quantity equal to 3 percent of total installed of each color and pattern installed.

1.04 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing specified carpet tile with minimum three years documented experience.

B. Installer Qualifications: Company specializing in installing carpet tile with minimum three years documented experience and approved by carpet tile manufacturer.

1.05 FIELD CONDITIONS

A. Store materials in area of installation for minimum period of 24 hours prior to installation.

PART 2 PRODUCTS

2.01 MATERIALS

A. Tile Carpeting:
   1. Product: As indicated on the drawings.
      a. Unique textile composite flooring with specific installation techniques.
      b. Manufactured in one dye lot.
   2. Substitutions: Not permitted.

B. Walk-off Tile Carpeting:
   1. Product: As indicated on the drawings.
      a. Manufactured in one dye lot.
   2. Substitutions: Not permitted.

2.02 ACCESSORIES

A. Subfloor Filler: Portland cement based patch reinforced with polymer such as Mapei PlaniPatch; type recommended by flooring material manufacturer.

B. Edge Strips: As indicated on the drawings.

C. Walk-off Tile Adhesive:
   1. Compatible with materials being adhered; maximum VOC content of 50 g/L; CRI (GLP) certified.

D. Carpet Tile Adhesive: Recommended by carpet tile manufacturer; pressure sensitive type typefurnished by carpet tile manufacturer for this specific application.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that subfloor surfaces are smooth and flat within tolerances specified for that type of work and are ready to receive carpet tile.

B. Verify that subfloor surfaces are dust-free and free of substances that could impair bonding of adhesive materials to subfloor surfaces.
   1. Adhesive cannot be applied directly to any substrate where chemical or solvent based cleaners have been used.

C. Cementitious Subfloor Surfaces: Verify that substrates are ready for flooring installation by testing for moisture and alkalinity (pH).
   1. Test in accordance with Section 09 05 61.
   2. Obtain instructions if test results are not within limits recommended by flooring material manufacturer and adhesive materials manufacturer.

D. Verify that required floor-mounted utilities are in correct location.

3.02 PREPARATION

A. Prepare floor substrates as recommended by flooring and adhesive manufacturers.

B. Remove subfloor ridges and bumps. Fill minor or local low spots, cracks, joints, holes, and other defects with subfloor filler.

C. Apply, trowel, and float filler to achieve smooth, flat, hard surface. Prohibit traffic until filler is cured.

D. Vacuum clean substrate.

E. Prime exisiting concrete as recommended by carpet tile manufacturer.

3.03 INSTALLATION

A. Starting installation constitutes acceptance of subfloor conditions.

B. Spread adhesive and allow to cure as indicated by manufacturer's instructions.

C. Install carpet tile in accordance with manufacturer's instructions.

D. Blend carpet from different cartons to ensure minimal variation in color match.

E. Cut carpet tile clean. Fit carpet tight to intersection with vertical surfaces without gaps.

F. Lay carpet tile in patten as indicated on the drawings. Follow manufacturer's instructions for that pattern.

G. Locate change of color or pattern between rooms under door centerline.

H. Fully adhere carpet tile to substrate.

I. Trim carpet tile neatly at walls and around interruptions.

J. Complete installation of edge strips, concealing exposed edges.

3.04 CLEANING

A. Remove excess adhesive without damage, from floor, base, and wall surfaces.

B. Clean and vacuum carpet surfaces.

END OF SECTION

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SECTION 09 72 12
CUSTOM VINYL WALL APPLIQUES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Custom vinyl appliques to be applied in field on surfaces indicated on the drawings.

1.02 SUBMITTALS

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

B. Product Data: Provide data on film, liner, and adhesive.

C. Shop Drawings: Indicate Indicate wall elevations with seaming layout..

D. Samples: Two samples, 6 by 6 inches in size, showing each type of material to be used.

E. Maintenance instructions for Owner's use in maintaing the installed products.

1.03 QUALITY ASSURANCE

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

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

1.04 DELIVERY, STORAGE, AND HANDLING

A. Inspect roll materials at arrival on site, to verify acceptability.

B. Protect packaged adhesive from temperature cycling and cold temperatures.

C. Store roll goods in a manner accepatble to the manufacturer/fabricator.

1.05 FIELD CONDITIONS

A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the product manufacturer.

B. Maintain these conditions 48 hours before, during, and after installation.

C. Provide lighting level of 80 ft candles measured mid-height at substrate surfaces for installation.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Basis of Design: Quality Glass Tinting Inc., www.quality-glasstint.com.

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

C. Source Limitations: Furnish products produced by single manufacturer and obtained from single supplier.

2.02 MATERIALS

A. Premium 2.4-mil Calendared gloss white vinyl digital media: Vinyl film media specifically engineered for use in graphic wrap and decal applications.

B. Characteristics:
   1. Corrugations
   2. Rivets
   3. Flat
   4. Slight to Moderate curves to stick indoors or outdoors
   5. Wrap around corners and poles
   6. Withstand any temperature or climate change without shrinking or curling
   7. No rip or wrinkle
   8. Contour cut
   9. Non-toxic

PART 3 EXECUTION

3.01 EXAMINATION

A. Verification of Conditions: Verify that substrate is clean and smooth and ready to receive the applique. .

3.02 PREPARATION

A. Surface Preparation:
   1. Prepare surfaces as required to provide long lasting installation.

3.03 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Provide air bubble free installation.

3.04 PROTECTION

A. Protect installed custom vinyl wall appliques from subsequent construction operations.

END OF SECTION

SECTION 09 91 13
EXTERIOR PAINTING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Surface preparation.

B. Field application of paints.

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

D. Refer to Section 08 36 13 Sectional Doors for required shop finishing.

E. Do Not Paint or Finish the Following Items:
   1. Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.
   2. Items indicated to receive other finishes.
   3. Items indicated to remain unfinished.
   4. Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment.
   5. Non-metallic roofing and flashing.
   6. Marble, granite, slate, and other natural stones.
   7. Floors, unless specifically indicated.
   8. Ceramic and other types of tiles.
   9. Brick, glass unit masonry, architectural concrete, cast stone, integrally colored plaster and stucco.
   10. Exterior insulation and finish system (EIFS).
   11. Glass.
   12. Concealed pipes, ducts, and conduits.

1.02 RELATED REQUIREMENTS

A. Section 09 91 23 - Interior Painting.

1.03 DEFINITIONS

A. Comply with ASTM D16 for interpretation of terms used in this section.

1.04 REFERENCE STANDARDS

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

B. ASTM D16 - Standard Terminology for Paint, Related Coatings, Materials, and Applications; 2024.

C. MPI (APSM) - Master Painters Institute Architectural Painting Specification Manual; Current Edition.

1.05 SUBMITTALS

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

B. Product Data: Provide complete list of products to be used, with the following information for each:
   1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
   2. MPI product number (e.g. MPI #47).
   3. Cross-reference to specified paint system(s) product is to be used in; include description of each system.

C. Samples: Submit three paper "draw down" samples, 8-1/2 by 11 inches in size, illustrating range of colors available for each finishing product specified.

1. Where sheen is specified, submit samples in only that sheen.

D. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
   1. See Section 01 60 00 - Product Requirements, for additional provisions.
   2. Extra Paint and Finish Materials: 1 gallon of each color; from the same product run, store where directed.
   3. Label each container with color in addition to the manufacturer's label.

1.06 QUALITY ASSURANCE

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

1.07 DELIVERY, STORAGE, AND HANDLING

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

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

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

1.08 FIELD CONDITIONS

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

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

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

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

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

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Provide paints and finishes used in any individual system from the same manufacturer; no exceptions.

B. Provide paints and finishes from the same manufacturer.
   1. If a single manufacturer cannot provide specified products, minor exceptions will be permitted provided approval by Architect is obtained using the specified procedures for substitutions.

C. Paints:
   1. Base Manufacturer: Sherwin-Williams Company: www.sherwin-williams.com/#sle.

D. Primer Sealers: Same manufacturer as top coats.

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

2.02 PAINTS AND FINISHES - GENERAL

A. Paints and Finishes: Ready-mixed, unless required to be a field-catalyzed paint.
   1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
   2. Provide materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.

3. Supply each paint material in quantity required to complete entire project's work from a single production run.
4. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is described explicitly in manufacturer's product instructions.

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

C. Flammability: Comply with applicable code for surface burning characteristics.

D. Manufacturer and products: As incidicated on the drawings.
1. Substitutions: See Section 01 60 00-Product Requirements.

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

F. Colors: As indicated in Color Schedule.

2.03 PRIMERS

A. Provide primers recommended by the manufacturer for each substrate and finish coat combination.

2.04 ACCESSORY MATERIALS

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

B. Patching Material: Latex filler.

C. Fastener Head Cover Material: Latex filler.

PART 3 EXECUTION

3.01 EXAMINATION

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

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

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

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

3.02 PREPARATION

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

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

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

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

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

3.03 APPLICATION

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

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

C. Apply each coat to uniform appearance.

D. Sand wood and metal surfaces lightly between coats to achieve required finish.

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

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

3.04 CLEANING

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

3.05 PROTECTION

A. Protect finishes until completion of project.

B. Touch-up damaged finishes after Substantial Completion.

END OF SECTION

SECTION 09 91 23
INTERIOR PAINTING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Surface preparation.

B. Field application of paints.

C. Materials for backpriming woodwork.

D. Scope: Finish interior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated.
   1. Both sides and edges of plywood backboards for electrical and telecom equipment before installing equipment.
   2. Prime surfaces to receive wall coverings.

E. Do Not Paint or Finish the Following Items:
   1. Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.
   2. Items indicated to receive other finishes.
   3. Items indicated to remain unfinished.
   4. Fire rating labels, equipment serial number and capacity labels, bar code labels, and operating parts of equipment.
   5. Stainless steel, anodized aluminum, bronze, terne-coated stainless steel, and lead items.
   6. Marble, granite, slate, and other natural stones.
   7. Floors, unless specifically indicated.
   8. Glass.
   9. Concealed pipes, ducts, and conduits.

1.02 REFERENCE STANDARDS

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

B. ASTM D4442 - Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Based Materials; 2020 (Reapproved 2025).

C. MPI (APSM) - Master Painters Institute Architectural Painting Specification Manual; Current Edition.

D. SSPC-SP 1 - Solvent Cleaning; 2015, with Editorial Revision (2016).

E. SSPC-SP 2 - Hand Tool Cleaning; 2024.

F. SSPC-SP 6/NACE No.3 - Commercial Blast Cleaning; 2007.

1.03 SUBMITTALS

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

B. Product Data: Provide complete list of products to be used, with the following information for each:
   1. Manufacturer's name, product name and/or catalog number, and general product category (e.g., "alkyd enamel").
   2. MPI product number (e.g., MPI #47).
   3. Cross-reference to specified paint system products to be used in project; include description of each system.

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

3. Allow 30 days for approval process, after receipt of complete samples by Architect.
4. Paint color submittals will not be considered until color submittals for major materials not to be painted, such as masonry, have been approved.

D. Manufacturer's Instructions: Indicate special surface preparation procedures.

E. Maintenance Data: Submit data including finish schedule showing where each product/color/finish was used, product technical data sheets, material safety data sheets (MSDS), care and cleaning instructions, touch-up procedures, repair of painted and finished surfaces, and color samples of each color and finish used.

F. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
1. See Section 01 60 00 - Product Requirements, for additional provisions.
2. Extra Paint and Finish Materials: 1 gal of each color; from the same product run, store where directed.
3. Label each container with color in addition to the manufacturer's label.

1.04 QUALITY ASSURANCE

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

1.05 DELIVERY, STORAGE, AND HANDLING

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

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

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

1.06 FIELD CONDITIONS

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

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

C. Provide lighting level of 80 fc measured mid-height at substrate surface.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Provide paints and finishes from the same manufacturer to the greatest extent possible.
1. Substitution of MPI-approved products by a different manufacturer is preferred over substitution of unapproved products by the same manufacturer.

B. Paints:
1. Base Manufacturer: Sherwin-Williams Company: www.sherwin-williams.com/#sle..

C. Primer Sealers: Same manufacturer as top coats.

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

2.02 PAINTS AND FINISHES - GENERAL

A. Paints and Finishes: Ready-mixed, unless intended to be a field-catalyzed paint.
1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
2. Provide materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.

3. Supply each paint material in quantity required to complete entire project's work from a single production run.
4. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions.

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

C. Flammability: Comply with applicable code for surface burning characteristics.

D. Manufacturer and products: As incidicated on the drawings.
1. Substitutions: See Section 01 60 00-Product Requirements.

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

F. Colors: As indicated on drawings.

2.03 PRIMERS

A. Provide primers recommended by the manufacturer for each substrate and finish coat combination.

2.04 ACCESSORY MATERIALS

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

B. Patching Material: Latex filler.

C. Fastener Head Cover Material: Latex filler.

PART 3 EXECUTION

3.01 EXAMINATION

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

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

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

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

E. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces is below the following maximums:
1. Gypsum Wallboard: 12 percent.
2. Masonry, Concrete, and Concrete Masonry Units: 12 percent.
3. Interior Wood: 15 percent, measured in accordance with ASTM D4442.
4. Concrete Floors and Traffic Surfaces: 8 percent.

3.02 PREPARATION

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

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

C. Remove or repair existing paints or finishes that exhibit surface defects.

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

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

F. Masonry:
   1. Remove efflorescence and chalk. Do not coat surfaces if moisture content, alkalinity of surfaces, or if alkalinity of mortar joints exceed that permitted in manufacturer's written instructions. Allow to dry.
   2. Prepare surface as recommended by top coat manufacturer.

G. Gypsum Board: Fill minor defects with filler compound. Spot prime defects after repair.

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

I. Ferrous Metal:
   1. Solvent clean according to SSPC-SP 1.
   2. Shop-Primed Surfaces: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Re-prime entire shop-primed item.
   3. Remove rust, loose mill scale, and other foreign substances using methods recommended in writing by paint manufacturer and blast cleaning in accordance with SSPC-SP 6/NACE No.3. Protect from corrosion until coated.

J. Wood Surfaces to Receive Opaque Finish: Wipe off dust and grit prior to priming. Seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after primer has dried; sand between coats. Back prime concealed surfaces before installation.

3.03 APPLICATION

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

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

C. Apply each coat to uniform appearance in thicknesses specified by manufacturer.

D. Sand wood and metal surfaces lightly between coats to achieve required finish.

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

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

3.04 CLEANING

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

3.05 PROTECTION

A. Protect finishes until completion of project.

B. Touch-up damaged finishes after Substantial Completion.

END OF SECTION

SECTION 10 14 20
SIGNAGE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Dimensional letter signage.

B. Room identification signage.

1.02 REFERENCE STANDARDS

A. 36 CFR 1191 - Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines; current edition.

B. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2017.

1.03 SUBMITTALS

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

B. Product Data: Manufacturer's product literature for each type of sign, indicating style, font, colors, locations, and overall dimensions of each sign.

C. Shop Drawings:
   1. Include dimensions, locations, elevations, materials, text and graphic layout, and attachment details.

D. Samples: Submit one sample of each type of sign of size similar to that required for project, indicating sign style, font, and method of attachment.

E. Selection Samples: Where materials, colors, and finishes are not specified, submit selection charts or chips.

F. Verification Samples: Submit samples showing colors and finishes specified.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Package signs as required to prevent damage before installation.

B. Store under cover and elevated above grade.

C. Store tape adhesive at a normal room temperature of 68 to 72 degrees F.

1.05 FIELD CONDITIONS

A. Do not install adhesives when ambient temperature is lower than recommended by manufacturer.

B. Maintain minimum ambient temperature during and after installation.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Basis of Design: Products as indicated on the drawings.

B. Substitutions: See Section 01 60 00 Product Requirements.

2.02 DIMENSIONAL LETTERS

A. Metal Letters:
   1. Material: Aluminum sheet, flat.
   2. Thickness: As indicated on drawings.
   3. Letter Height: As indicated on drawings.
   4. Text and Typeface:
      a. Character Font: As indicated on the drawings.
      b. Character Case: As indicated on the drawings.
   5. Finish: Sand, Prime, Paint (baked on in booth).
      a. Color: As indicated on the drawings.

6. Mounting: Projected mount with collars. Stainless steel mounting stud and aluminum collar.

2.03 ROOM IDENTIFICATION SIGNAGE

A. Room-Identification Sign with smooth, uniform surfaces; with message and characters having uniform faces, sharp corners, and precisely formed lines and profiles; and as follows:
   1. Laminated-Sheet Sign: Photopolymer face sheet with raised graphics laminated to acrylic backing sheet to produce composite sheet.
      a. Composite-Sheet Thickness: 0.25 inch.
      b. Subsurface Graphics: Reverse halftone or dot-screen image.
      c. Color(s): As selected by Architect from manufacturer's full range.
   2. Sign-Panel Perimeter: Finish edges smooth.
      a. Edge Condition: Square cut.
      b. Corner Condition in Elevation: Square.
   3. Mounting: Surface mounted to wall with two-face tape.
   4. Text and Typeface: Helvetica Font and Accessible raised characters and Braille. Finish raised characters to contrast with background color, and finish Braille to match background color.

B. Sign Materials:
   1. Acrylic Sheet: ASTM D 4802, category as standard with manufacturer for each sign, Type UVF (UV filtering).

2.04 ACCESSORIES

A. Use concealed fasteners and anchors unless indicated on the drawings to be exposed.

B. Concealed Fasteners and Standoffs: Noncorroding metal; stainless steel.
   1. Concealed Studs: Concealed (blind), threaded studs welded or brazed to back of sign material or screwed into back of sign assembly unless otherwise indicated.

C. Tape Adhesive: Double-sided tape, permanent adhesive. Manufacturer's standard high-bond, foam-core tape, 0.045 inch thick, with adhesive on both sides.

2.05 GENERAL FINISH REQUIREMENTS

A. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that substrate surfaces are ready to receive work.

B. Notify Architect if conditions are not suitable for installation of signs; do not proceed until conditions are satisfactory.

3.02 INSTALLATION

A. General: Install signs using mounting methods indicated and according to manufacturer's written instructions.
   1. Install signs level, plumb, true to line, and at locations and heights indicated, with sign surfaces free of distortion and other defects in appearance.
   2. Install signs so they do not protrude or obstruct according to the accessibility standard.
   3. Before installation, verify that sign surfaces are clean and free of materials or debris that would impair installation.

3.03 ADJUSTING AND CLEANING

A. Remove and replace damaged or deformed signs and signs that do not comply with specified requirements. Replace signs with damaged or deteriorated finishes or components that cannot be successfully repaired by finish touchup or similar minor repair procedures.

B. Remove temporary protective coverings and strippable films as signs are installed.

C. On completion of installation, clean exposed surfaces of signs according to manufacturer's written instructions, and touch up minor nicks and abrasions in finish.

3.04 PROTECTION

A. Maintain signs in a clean condition during construction and protect from damage until acceptance by Owner.

B. Protect from damage until Substantial Completion; repair or replace damaged items.

END OF SECTION

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SECTION 10 26 01
WALL PROTECTION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Corner guards.

1.02 REFERENCE STANDARDS

A. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2026a.

1.03 SUBMITTALS

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

B. Product Data: Indicate physical dimensions, features, wall mounting brackets with mounted measurements, anchorage details, and rough-in measurements.

C. Samples: Submit samples illustrating component design, configurations, joinery, color and finish.

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

E. Maintenance Data: Manufacturer's instructions for care and cleaning of each type of product. Include information about both recommended and potentially detrimental cleaning materials and methods.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Deliver wall and door protection items in original, undamaged protective packaging. Label items to designate installation locations.

B. Do not deliver products to project site until areas for storage and installation are fully enclosed, and interior temperature and humidity are in compliance with manufacturer's recommendations for each type of item.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Corner Guards:
   1. As indicated on the drawings.
   2. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 PRODUCT TYPES

A. Corner Guards - Surface Mounted:
   1. Material: Polyethylene terephthalate (PET or PETG); PVC-free with full height extruded aluminum retainer.
   2. Performance: Resist lateral impact force of 100 lbs at any point without damage or permanent set.
   3. Surface Burning Characteristics: Provide assemblies with flame spread index of 25 or less and smoke developed index of 450 or less, when tested in accordance with ASTM E84.
   4. Width of Wings: 2 inches.
   5. Corner: Square.
   6. Color: As selected from manufacturer's standard colors.
   7. Length: One piece.

2.03 FABRICATION

A. Fabricate components with tight joints, corners and seams.

B. Form end trim closure by capping and finishing smooth.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that rough openings, concealed blocking, and anchors are correctly sized and located.

B. Verify that substrate surfaces for adhered items are clean and smooth.
   1. Test painted or wall covering surfaces for adhesion in inconspicuous area, as recommended by manufacturer. Follow adhesive manufacturer's recommendations for remedial measures at locations and/or application conditions where adhesion test's results are unsatisfactory.

C. Start of installation constitutes acceptance of project conditions.

3.02 INSTALLATION

A. Install components in accordance with manufacturer's instructions, level and plumb, secured rigidly in position to supporting construction.

3.03 TOLERANCES

A. Maximum Variation From Required Height: 1/4 inch.

B. Maximum Variation From Level or Plane For Visible Length: 1/4 inch.

3.04 CLEANING

A. Clean wall and door protection items of excess adhesive, dust, dirt, and other contaminants.

END OF SECTION

SECTION 10 28 00
TOILET, BATH, AND LAUNDRY ACCESSORIES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Commercial toilet accessories.

1.02 REFERENCE STANDARDS

A. ASTM A269/A269M - Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service; 2025.

B. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2025a.

C. ASTM A666/A666M - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2024.

D. ASTM B86 - Standard Specification for Zinc and Zinc-Aluminum (ZA) Alloy Foundry and Die Castings; 2023.

E. ASTM B456 - Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium; 2017 (Reapproved 2022).

F. ASTM C1036 - Standard Specification for Flat Glass; 2025.

G. ASTM C1503 - Standard Specification for Silvered Flat Glass Mirror; 2024.

H. ASTM D4802 - Standard Specification for Poly(Methyl Methacrylate) Acrylic Plastic Sheet; 2016 (Reapproved 2024).

1.03 ADMINISTRATIVE REQUIREMENTS

A. Coordinate the work with the placement of internal wall reinforcement and reinforcement of toilet partitions to receive anchor attachments.

1.04 SUBMITTALS

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

B. Product Data: Submit data on accessories describing size, finish, details of function, and attachment methods.

C. Manufacturer's Installation Instructions: Indicate special procedures and conditions requiring special attention.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Commercial Toilet, Shower, and Bath Accessories:
   1. Basis of Design: Products as indicated on the drawings.
   2. Substitutions: Section 01 60 00 - Product Requirements.

2.02 MATERIALS

A. Accessories - General: Shop assembled, free of dents and scratches and packaged complete with anchors and fittings, steel anchor plates, adapters, and anchor components for installation.
   1. Grind welded joints smooth.
   2. Fabricate units made of metal sheet of seamless sheets with flat surfaces.

B. Keys: Provide 3 keys for each accessory to Owner; master key lockable accessories.

C. Stainless Steel Sheet: ASTM A666/A666M, Type 304.

D. Stainless Steel Tubing: ASTM A269/A269M, Grade TP304 or TP316.

E. Galvanized Sheet Steel: Hot-dipped galvanized steel sheet, ASTM A653/A653M, with G90/Z275 coating.

F. Zinc Alloy: Die cast, ASTM B86.

G. Acrylic Plastic Sheet: ASTM D4802.

H. Mirror Glass: Annealed float glass, ASTM C1036 Type I, Class 1, Quality Q2, with silvering, protective and physical characteristics complying with ASTM C1503.

I. Adhesive: Two component epoxy type, waterproof.

J. Fasteners, Screws, and Bolts: Hot dip galvanized; tamper-proof; security type.

K. Expansion Shields: Fiber, lead, or rubber as recommended by accessory manufacturer for component and substrate.

2.03 FINISHES

A. Stainless Steel: Satin finish, unless otherwise noted.

B. Chrome/Nickel Plating: ASTM B456, SC 2, satin finish, unless otherwise noted.

C. Back paint components where contact is made with building finishes to prevent electrolysis.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting work.

B. Verify exact location of accessories for installation.

3.02 PREPARATION

A. Deliver inserts and rough-in frames to site for timely installation.

B. Provide templates and rough-in measurements as required.

3.03 INSTALLATION

A. Install accessories in accordance with manufacturers' instructions in locations indicated on drawings.

B. Install plumb and level, securely and rigidly anchored to substrate.

C. Mounting Heights: As indicated on the drawings and as required by accessibility regulations.

3.04 PROTECTION

A. Protect installed accessories from damage due to subsequent construction operations.

END OF SECTION

SECTION 10 41 12
FIRE DEPARTMENT KEY BOX

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Rapid Access Key Lock Box.

1.02 REFERENCE STANDARDS

A. NFPA 1, Chapter 18.

B. UL 1037, 1610, 1332, and 437.

1.03 ADMINISTRATIVE REQUIREMENTS

A. Coordination:
   1. Coordinate specific brand and model requirements with local authority having jurisdiction.
   2. Coordinate installation location with authorities having jurisdiction.
   3. Communicate rough opening dimensions and requirments with trades involved.

1.04 SUBMITTALS

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

B. Product Data: Indicate physical properties, dimensions, and mounting.

C. Samples: Manufacturer's standard finish colors.

D. Manufacturer's Installation Instructions.

E. Executed warranty.

F. Project Record Documents: Indicate actual locations of key storage box.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with minimum 5 years of documented experience.

1.06 DELIVERY, STORAGE, AND HANDLING

A. See Section 01 74 19 - Construction Waste Management and Disposal for packaging waste requirements.

B. Deliver key strorage box to project site in original packaging.

C. Store products in compliance with manufacturer's instructions.

D. Store products in either horizontal or vertical position, in compliance with manufacturer's instructions.

1.07 WARRANTY

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

B. Manufacturer Warranty: Provide manufacturer warranty to be free of defects in material and/or workmanship for as long as the Original User owns it. Complete forms in Owner's name and register with manufacturer.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Knox Company, https://www.knoxbox.com/.
   1. 3200 Series Knox Box.
   2. Recessed mounting.

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

2.02 RAPID ACCESS KEY STORAGE BOXES

A. Fully recessed type, including lift off type door, with UL listed tamper switches.

B. 1/4" plate steel housing. 1/2" thick steel door with interior gasket seal.

C. 1/8" thick stainless steel dust cover with tamper seal mounting capability.

D. Exterior Dimensions: 4"H x 5"W x 3 7/8"D.

E. Recessed Mount Flange: 7"H x 7"W.

F. Lock: UL listed, double action rotating tumblers and hardened steel pins accessed by a biased cut key.

G. Finish: Knox Coat proprietary finishing process.

H. Color: Dark Bronze

PART 3 EXECUTION

3.01 EXAMINATION

A. Verification of Conditions: Verify wall is ready to receive key storage box.

3.02 INSTALLATION

A. Install in accordance with manufacturer's written instructions.

B. Install Manufacturer's recessed mounting kit as wall is constructed.

C. Install key storage box into recessed housing after other construction is completed.

3.03 ADJUSTING

A. Adjust door and lock for smooth operation.

END OF SECTION

SECTION 10 44 00
FIRE PROTECTION SPECIALTIES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Fire extinguishers.

B. Fire extinguisher cabinets.

C. Knox box Units

1.02 REFERENCE STANDARDS

A. FM (AG) - FM Approval Guide; Current Edition.

B. NFPA 10 - Standard for Portable Fire Extinguishers; 2026.

C. UL (DIR) - Online Certifications Directory; Current Edition.

1.03 SUBMITTALS

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

B. Product Data: Provide extinguisher operational features.

C. Shop Drawings: Indicate locations of cabinets and cabinet physical dimensions.

D. Operation and Maintenance Data: Include test, refill, or recharge schedules and recertification requirements.

1.04 FIELD CONDITIONS

A. Do not install extinguishers when ambient temperature causes freezing of extinguisher ingredients.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Fire Extinguisher Cabinets and Accessories:
   1. JL Industries, Inc.
   2. Larsen's Manufacturing Co: www.larsensmfg.com/#sle.
   3. Potter-Roemer: www.potterroemer.com/#sle.
   4. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 FIRE EXTINGUISHERS

A. General Requirements: Comply with product requirements of NFPA 10 and applicable codes, whichever is more stringent.
   1. Provide extinguishers labeled by UL (DIR) or FM (AG) for purpose specified and as indicated on drawings.

B. Multipurpose Dry-Chemical-Type Fire Extinguishers: Carbon steel tank, with pressure gauge.
   1. Class: A:B:C.
   2. Size: 10 pound.
   3. Finish: Baked polyester powder coat, red color.
   4. Temperature range: Minus 40 degrees F to 120 degrees F.

2.03 FIRE EXTINGUISHER CABINETS

A. Basis of Design: Larsen's Manufacturing Co.Aluminium with clear satin anodized finish.
   1. Verticle duo with clear acrylic glazing and verticle red letters.
   2. Semi-recessed aluminum cabinets located within gypsum board and metal stud partitions. Notify Architect and Fire Marshall when metal stud framing is in place for locating cabinets. Model numbers shall be determined by wall thickness and locations determined by Fire Marshal.
   3. Surface-mounted aluminum cabinets located on masonry partitions.

B. Cabinet Construction: Non-fire rated.
   1. Formed aluminum; 0.128 inch thick base metal.

C. Door: 20-gauge, 0.036-inch metal thickness, reinforced for flatness and rigidity with nylon catch. Hinge doors for 180-degree opening with two butt hinges.

D. Door Glazing: Acrylic plastic, clear, 1/8 inch thick, flat shape, and set in resilient channel glazing gasket.

E. Cabinet Mounting Hardware: Appropriate to cabinet, with predrilled holes for placement of anchors.

F. Fabrication: Weld, fill, and grind components smooth.

G. Finish of Cabinet Exterior Trim and Door: Anodized to color as selected.

H. Finish of Cabinet Interior: White colored enamel.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify dimensions, tolerances, and interfaces with other work.

B. Verify substrate and site conditions for product installation are in accordance with manufacturer's written instructions.

C. Notify Architect in writing of conditions detrimental to completion of work. Do not proceed with installation until detrimental conditions are corrected.

D. Verify rough openings for cabinet are sized and located in accordance with manufacturer's written instructions.

3.02 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Install cabinets plumb and level in wall openings, 42 inches from finished floor to inside bottom of cabinet.

C. Secure rigidly in place.

D. Place extinguishers and accessories in cabinets.

END OF SECTION

SECTION 10 50 31
TURNOUT GEAR LOCKERS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Design, fabrication and installation of wall mounted turnout gear lockers.

1.02 RELATED SECTIONS

A. Section 10 5113: Welded Metal Lockers.

1.03 SUBMITTALS

A. Product Data: Submit manufacturer's product data and installation instructions.

B. Shop Drawings: Submit manufacturer's shop drawings for each individual run of lockers.

C. Samples: Submit manufacturer's standard color samples.

D. Owner's Manual: Provide maintenance manual at closeout.

E. Warranty: Submit manufacturer's standard warranty.

1.04 QUALITY ASSURANCE

1.05 DELIVERY, STORAGE AND HANDLING

A. Delivery: Deliver materials to site in manufacturer's original, unopened containers with labels identifying product and manufacturer's name.

B. Storage: Store materials in a clean dry area.

C. Handling: Protect materials and finish during installation and handling to prevent damage.

PART 2 PRODUCTS

2.01 MANUFACTURER

A. Basis of Design: GearGrid Corporation, 670 SW 15th Street, Forest Lake, MN 55025. Toll-free 888-643-6694. Phone 651-464-4468. Web site www.geargrid.com. Email sales@geargrid.com.

B. Substitutions: See Section 01 6000 - Product Requirements.

2.02 TURNOUT GEAR LOCKERS

A. Model: GEARGRID Wall Mounted Storage System and GEARGRID Tube Wall Storage System
   1. Locker Sizes:
      a. As indicated on the drawings.
   2. Construction: Cold-formed, welded joints. Fasteners only as required for knock-down shipping, securing units to mounting surface and on applicable accessories.
      a. Vertical Dividers:
         1) Outer Frames: 1.25" O.D. x 16-gauge wall thickness ASTM A513 steel tubing.
         2) Inner Grid:
            (a) 0.25" diameter ASTM 510 cold drawn steel wire resistance welded to a 3" square pattern.
            (b) Full length and width of inside vertical divider frame.
            (c) Run oriented horizontally and vertically creating a square or rectangular grid pattern only.
            (d) Welded at all intersections.
      b. Back Panel:
         1) Required on each locker.
         2) Grid: .25" diameter ASTM 510 cold drawn steel wire resistance welded to a 3" square pattern.
         3) Sandwiched between vertical dividers, preventing them from being removed after assembly is complete.

c. Shelves: (1) Upper, (1) Lower. 0.25” diameter ASTM 510 cold drawn steel wire resistance welded and cold formed.
d. Apparel Hooks:
1) (3) per locker opening, 0.192” diameter ASTM 510 cold drawn steel wire resistance welded, cold formed and powder coated.
2) Securely engage and snap onto side or back grid, to prevent unintentional disengagement of hook.

B. ACCESSORIES
1. Door:
a. Frame: 1.25” O.D. x 16-gauge wall thickness ASTM A513 steel tubing.
b. Inner Grid: .25” diameter ASTM 510 cold drawn steel wire resistance welded to a 3” square pattern.
1) Wires must be full length and width of inside vertical divider frame.
2) Welded at all intersections
c. Top Cover: .25” diameter ASTM 510 cold drawn steel wire resistance welded to a 3” square pattern.
1) Secured to vertical dividers via horizontal wires which extend into mounting holes pre-drilled in vertical dividers.
2) Sandwiched between vertical dividers, preventing them from being removed after assembly is complete.
d. Hinge: Single pin welded style with brass pivot bushing. Door and Vertical Divider hinge components must be welded and not mechanically fastened.
e. Placard Channel: 20-gauge steel to accept a 2” x 12” name placard, securely welded to inner grid panel
f. Latch/Hasp: Self-latching with padlock hasp.
1) Minimum .125 in. sheet steel welded to frame.
2) Lock by owner.
2. Hang Bar
a. Hang Bars:
1) Adjustable height
2) Tube: 1.25” O.D. x 16-gauge 304 stainless steel tubing.
3) Brackets: Attaches to dividers.
4) Heavy Hanger:
(a) .25” diameter 304 stainless steel wire cold-formed and resistance welded.
(1) Black vinyl coating on hook end.
(b) Gear Dryer Hanger:
(1) .25” diameter 304 stainless steel wire cold-formed and resistance welded. Includes formed loops to prop open sleeves on jackets to promote better circulation throughout the garment.
(2) Black vinyl coating on hook end.
(c) Glove Drying Hanger:
(1) .25” diameter 304 stainless steel wire cold-formed and resistance welded.
(2) Black vinyl coating on hook end.

C. Finish
1. General: All system components excluding assembly and mounting hardware and stainless-steel components are to receive the standard finish.
a. Standard Finish: Durable and UV-stable TGIC powder coating process. Thickness of applied finish shall be 3 – 4 mm for added protection.
1) Provide anti-corrosive Primer.
b. Color: As selected by Architect from Manufacturer's full range of colors.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine area to receive lockers. Notify architect if area are not acceptable. Do not begin installation until unacceptable conditions have been corrected.

3.02 INSTALLATION

A. Install lockers in accordance with manufacturer's instructions.

B. Use manufacturer's hardware for assembly.

C. Anchor to mounting surface with proper hardware. Secure lockers with anchor devices to suit substrate materials.

D. Install lockers plumb and square.

E. Minimum Pullout Force: 100 pounds.

F. Install end panels, filler panels, and sloped tops.

G. Install fittings if not factory installed.

H. Replace components that do not operate smoothly.

3.03 CLEANING

A. Clean locker interiors and exterior surfaces.

END OF SECTION

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SECTION 10 56 17
WALL MOUNTED STANDARDS AND SHELVING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Steel shelf standards, brackets, and accessories.

B. Shelves.

1.02 SUBMITTALS

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

B. Product Data: Manufacturer's data sheets on each product to be used.

1.03 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Store products under cover and elevated above grade.

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

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Shelf Standards, Brackets, Shelves and Accessories:
   1. InterMetro Corp, North Washington Street, Wilkes-Barre, PA 18705, metro.com

2.02 COMPONENTS

A. Metro SmartWall Shelving system.
   1. Type 304 Stainless Steel, Polished.
   2. Stand alone wall mounted shelving without grids.
   3. Metro Erecta Shelf Wire Shelving Uprights.
      a. 88.5-inch and 53.5-inch high sections as indicated on the drawings.
   4. Metro Erecta Shelf Wire Shelves.
      a. 12-inch by 36-inch.
   5. Metro 8" High Shelf Divider for Wire Shelves.
      a. Provide three per shelf.

B. Fasteners: Screws as recommended by manufacturer for intended application or as otherwise required by project conditions. Finish of exposed to view fasteners to match finish of standards and other components.

PART 3 EXECUTION

3.01 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

B. If substrate preparation is the responsibility of another installer, correct unsatisfactory preparation before proceeding.

3.02 PREPARATION

A. Clean surfaces thoroughly prior to installation.

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

3.03 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Mount standards or brackets to solid backing capable of supporting intended loads.

C. Install brackets, shelving, and accessories.

3.04 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION

SECTION 12 24 00
WINDOW SHADES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Interior manual roller shades.

1.02 PRICE AND PAYMENT PROCEDURES

A. See Section 01 23 00 - Alternates, for product alternate bid items affecting this section.

1.03 REFERENCE STANDARDS

1.04 SUBMITTALS

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

B. Product Data: Provide manufacturer's standard catalog pages and data sheets, including materials, finishes, fabrication details, dimensions, profiles, mounting requirements, and accessories.

C. Shop Drawings: Include shade schedule indicating size, location and keys to details, head, jamb and sill details, mounting dimension requirements for each product and condition, and operation direction.

D. Verification Samples: Minimum size 6 inches square, representing actual materials, color and pattern.

E. Manufacturer's Instructions: Include instructions for storage, handling, protection, examination, preparation, and installation of product.

F. Operation and Maintenance Data: List of all components with part numbers, sources of supply, and operation and maintenance instructions; include copy of shop drawings.

G. Warranty: Submit sample of manufacturer's warranty and documentation of final executed warranty completed in Owner's name and registered with manufacturer.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than five years of documented experience.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Deliver shades in manufacturer's unopened packaging, labeled to identify each shade for each opening.

B. Handle and store shades in accordance with manufacturer's recommendations.

1.07 FIELD CONDITIONS

A. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.08 WARRANTY

A. Provide manufacturer's warranty from Date of Substantial Completion, covering the following:
   1. Shade Hardware: One year.
   2. Fabric: One year.
   3. Aluminum and Steel Coatings: One year.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Interior Manually Operated Roller Shades:
   1. SWFcontract, a division of Springs Window Fashions, LLC.: www.swfcontract.com/#sle.
   2. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 ROLLER SHADES

A. General:

1. Provide shade system components that are easy to remove or adjust without removal of mounted shade brackets.
2. Provide shade system that operates smoothly when shades are raised or lowered.

B. Roller Shades:
1. Brackets and Mounting Hardware: As recommended by manufacturer for mounting indicated and to accommodate shade fabric roll-up size and weight.
a. Material: Stamped steel.
2. Roller Tubes: As required for type of shade operation.
a. Material: Extruded aluminum, clear anodized finish.
b. Size: As recommended by manufacturer; selected for suitability for installation conditions, span, and weight of shades.
c. Take-Up Roller: Manufacturer's standard roller tube pretensioned for winding lift cable in bottom-up type shades.
3. Hembars: Designed to maintain bottom of shade straight and flat.
a. Style: Full wrap fabric covered bottom bar, flat profile with heat sealed closed ends.
b. Room-Darkening Shades: Provide a slot in bottom bar with wool-pile light seal.

2.03 SHADE FABRIC

A. Fabric: Nonflammable, color-fast, impervious to heat and moisture, and able to retain its shape under normal operation.
1. Manufacturers:
a. Shade fabric as indicated on the drawings.
b. Substitutions: See Section 01 60 00 - Product Requirements.

2.04 ROLLER SHADE FABRICATION

A. Field measure finished openings prior to ordering or fabrication.

B. Dimensional Tolerances: Fabricate shades to fit openings within specified tolerances.
1. Vertical Dimensions: Fill openings from head to sill with 1/2 inch space between bottom bar and window stool.
2. Horizontal Dimensions - Inside Mounting: Fill openings from jamb to jamb.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine finished openings for deficiencies that may preclude satisfactory installation.

B. Start of installation shall be considered acceptance of substrates.

3.02 PREPARATION

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

B. Coordinate with window installation and placement of concealed blocking to support shades.

3.03 INSTALLATION

A. Install in accordance with manufacturer's instructions and approved shop drawings, using mounting devices as indicated.

B. Replace shades that exceed specified dimensional tolerances at no extra cost to Owner.

C. Adjust level, projection, and shade centering from mounting bracket. Verify there is no telescoping of shade fabric. Ensure smooth shade operation.

3.04 CLEANING

A. Clean soiled shades and exposed components as recommended by manufacturer.

B. Replace shades that cannot be cleaned to "like new" condition.

3.05 CLOSEOUT ACTIVITIES

A. Demonstration: Demonstrate operation and maintenance of window shade system to Owner's personnel.

3.06 PROTECTION

A. Protect installed products from subsequent construction operations.

B. Touch-up, repair, or replace damaged products before Substantial Completion.

END OF SECTION

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SECTION 12 35 30
RESIDENTIAL CASEWORK

PART 1 GENERAL

1.01 RELATED REQUIREMENTS

A. Section 12 36 00 - Countertops.

1.02 REFERENCE STANDARDS

A. ANSI A135.4 - Basic Hardboard; 2012 (Reaffirmed 2020).

B. ANSI A208.1 - American National Standard for Particleboard; 2022.

C. ANSI A208.2 - Medium Density Fiberboard (MDF) for Interior Applications; 2022.

D. HPVA HP-1 - American National Standard for Hardwood and Decorative Plywood; 2024.

E. NEMA LD 3 - High-Pressure Decorative Laminates; 2005.

1.03 SUBMITTALS

A. Product Data: Provide component dimensions, configurations, construction details, and joint details.

B. Shop Drawings: Indicate casework locations, elevations, clearances required, rough-in and anchor placement dimensions and tolerances.

C. Cabinet Finish Sample: Submit two samples of each type of finish, 2 inches by 3 inches in size, illustrating color, texture, gloss, and wood species.

D. Cabinet Door Sample: Of sufficient size to show cabinet style and finish, with selected hardware.

E. Manufacturer's Qualification Statement.

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

1.04 QUALITY ASSURANCE

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

1.05 WARRANTY

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

PART 2 PRODUCTS

2.01 CABINETS

A. Manufacturers:
   1. Product as indicated on the drawings.
   2. Substitutions: See Section 01 60 00 - Product Requirements.

B. Kitchen and Vanity Cabinets: Premanufactured and factory-finished, complying with construction and testing requirements in KCMA A161.1.

C. Cabinet Box: Manufacturer's standard materials and construction as determined by selected product line.

D. Cabinet Door/Drawer Configuration: Partial overlay.

E. Cabinet Doors:
   1. Solid wood, stained finish.
   2. Species: As indicated on the drawings.
   3. Stain Color: As indicated on the drawings.

F. Drawers:
   1. Solid wood sides with dovetail joints, plywood bottom panel.
   2. Drawer Front: To match cabinet doors in style, material, and finish.

3. Interior Finish: Manufacturer's standard.

G. Shelves: Manufacturer's standard adjustable shelves and shelf supports.

H. Cabinet Hardware: As selected from manufacturer's standard types, styles and finishes.

I. Countertops: As specified in Section 12 36 00.

2.02 MATERIALS

A. Wood-Based Materials:
   1. Solid Wood: Air-dried to 4.5 percent moisture content, then tempered to 6 percent moisture content before use.

B. Solid Wood: Clear, dry, sound, plain sawn, selected for species grain and color, no defects.

C. Hardwood Plywood: Veneer core; HPVA HP-1 Grade as indicated; same species as exposed solid wood, clear, compatible grain and color, no defects. Band exposed edges with solid wood of same species as veneer.

D. Concealed Solid Wood or Plywood: Any species and without defects affecting strength or utility.

E. Particleboard: Composed of wood chips, medium density, with waterproof resin binders; of grade to suit application; sanded faces; complying with ANSI A208.1.

F. Medium Density Fiberboard (MDF): Composed of cellulosic fibers and resin cured under heat and pressure; grade to suite application; complying with ANSI A208.2.

G. Hardboard: ANSI A135.4, Class 1, tempered.

H. Thermally Fused Laminate (TFL): Melamine resin, NEMA LD 3, Type VGL laminate panels.

2.03 FABRICATION

A. Shop assemble casework for delivery to site in units easily handled and to permit passage through building openings.

B. Fabricate corners and joints without gaps.

C. Fabricate each unit to be rigid and not dependent on adjacent units for rigidity.

D. Provide cutouts for plumbing fixtures and appliances. Prime paint contact surfaces of cut edges.

E. When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify adequacy of support framing.

3.02 INSTALLATION

A. Install casework, components and accessories in accordance with manufacturer's instructions.

B. Use anchoring devices to suit conditions and substrate materials encountered.

C. Set casework items plumb and square, securely anchored to building structure.

D. Carefully scribe casework abutting other components, with maximum gaps of 1/16 inch.

3.03 ADJUSTING

A. Adjust doors, drawers, hardware, and other moving or operating parts to function smoothly.

3.04 CLEANING

A. Clean casework, countertops, shelves, and hardware.

3.05 PROTECTION

A. Do not permit finished casework to be exposed to continued construction activity.

END OF SECTION

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SECTION 12 36 00.01
SOLID SURFACE SILLS

PART 1 GENERAL

1.01 REFERENCE STANDARDS

A. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards, 2nd Edition; 2014, with Errata (2016).

B. AWMAC/WI (NAAWS) - North American Architectural Woodwork Standards; 2021, with Errata.

C. ISFA 2-01 - Classification and Standards for Solid Surfacing Material; 2013.

D. NEMA LD 3 - High-Pressure Decorative Laminates; 2005.

1.02 SUBMITTALS

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

B. Product Data: Manufacturer's data sheets on each product to be used, including:
   1. Preparation instructions and recommendations.
   2. Storage and handling requirements and recommendations.
   3. Specimen warranty.

C. Verification Samples: For each finish product specified, minimum size 3 inches square, representing actual product, color, and patterns.

D. Maintenance Data: Manufacturer's instructions and recommendations for maintenance and repair of countertop surfaces.

1.03 DELIVERY, STORAGE, AND HANDLING

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

B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.04 FIELD CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

PART 2 PRODUCTS

2.01 SI

A. Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.

B. Solid Surface Window Sills: olid surfacing sheet or plastic resin casting over continuous substrate.
   1. Flat Sheet Thickness: 1/2 inch, minimum.
   2. Solid Surfacing Sheet and Plastic Resin Castings: Complying with ISFA 2-01 and NEMA LD 3; acrylic or polyester resin, mineral filler, and pigments; homogenous, non-porous and capable of being worked and repaired using standard woodworking tools; no surface coating; color and pattern consistent throughout thickness.
      a. Manufacturers:
         1) As indicated on the drawings.
         2) Substitutions: Not permitted.
      b. Finish on Exposed Surfaces: As indicated on the drawings.
   3. Exposed Edge Treatment: Built up to minimum 1-1/4 inch thick; square edge; use marine edge at sinks.

2.02 MATERIALS

A. Adhesives: Chemical resistant waterproof adhesive as recommended by manufacturer of materials being joined.

2.03 FABRICATION

A. Fabricate tops and splashes in the largest sections practicable, with top surface of joints flush.
   1. Fabricate to overhang fronts and ends of cabinets 1 inch except where top butts against cabinet or wall.
   2. Prepare all cutouts accurately to size; replace tops having improperly dimensioned or unnecessary cutouts or fixture holes.

B. Solid Surfacing: Fabricate tops up to 144 inches long in one piece; join pieces with adhesive sealant in accordance with manufacturer's recommendations and instructions.

PART 3 EXECUTION

3.01 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

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

C. Verify that wall surfaces have been finished and mechanical and electrical services and outlets are installed in proper locations.

3.02 PREPARATION

A. Clean surfaces thoroughly prior to installation.

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

3.03 INSTALLATION

A. Make flat surfaces level; shim where required.

B. Seal joint at back and ends of sills

3.04 TOLERANCES

A. Variation From Horizontal: 1/8 inch in 10 feet, maximum.

B. Offset From Wall: 1/8 inch maximum; 1/16 inch minimum.

C. Field Joints: 1/8 inch wide, maximum.

3.05 CLEANING

A. Clean surfaces thoroughly.

3.06 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Date of Substantial Completion.

END OF SECTION

SECTION 12 36 00
COUNTERTOPS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Countertops for architectural cabinet work.

B. Countertops for manufactured casework.

1.02 RELATED REQUIREMENTS

A. Section 06 64 00 Plastic Paneling.

B. Section 12 32 00 - Manufactured Wood Casework .

C. Section 12 35 30 - Residential Casework.

1.03 PRICE AND PAYMENT PROCEDURES

A. See Section 01 23 00 - Alternates for alternate bid items affecting this section.

1.04 REFERENCE STANDARDS

A. ASTM B211/B211M - Standard Specification for Aluminum and Aluminum-Alloy Rolled or Cold Finished Bar, Rod, and Wire; 2023.

B. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2026a.

C. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards, 2nd Edition; 2014, with Errata (2016).

D. AWMAC/WI (NAAWS) - North American Architectural Woodwork Standards; 2021, with Errata.

E. IAPMO Z124 - Plastic Plumbing Fixtures; 2022, with Editorial Revision.

F. ISFA 2-01 - Classification and Standards for Solid Surfacing Material; 2013.

G. ISFA 3-01 - Classification and Standards for Quartz Surfacing Material; 2013.

H. NEMA LD 3 - High-Pressure Decorative Laminates; 2005.

I. NSI (DSDM) - Dimension Stone Design Manual; 2024.

J. PS 1 - Structural Plywood; 2023.

1.05 SUBMITTALS

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

B. Product Data: Manufacturer's data sheets on each product to be used, including:
   1. Preparation instructions and recommendations.
   2. Storage and handling requirements and recommendations.
   3. Specimen warranty.

C. Shop Drawings: Complete details of materials and installation ; combine with shop drawings of cabinets and casework specified in other sections.

D. Verification Samples: For each finish product specified, minimum size 6 inches square, representing actual product, color, and patterns.

E. Test Reports: Chemical resistance testing, showing compliance with specified requirements.

F. Installation Instructions: Manufacturer's installation instructions and recommendations.

G. Maintenance Data: Manufacturer's instructions and recommendations for maintenance and repair of countertop surfaces.

1.06 DELIVERY, STORAGE, AND HANDLING

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

B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.07 FIELD CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

PART 2 PRODUCTS

2.01 COUNTERTOPS

A. Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.

B. Plastic Laminate Countertops: High-pressure decorative laminate (HPDL) sheet bonded to substrate.
   1. Laminate Sheet: NEMA LD 3, Grade HGS, 0.048 inch nominal thickness.
      a. Manufacturers:
         1) As indicated on the drawings.
      b. Surface Burning Characteristics: Flame spread index of 25, maximum; smoke developed index of 450, maximum; when tested in accordance with ASTM E84.
      c. NSF approved for food contact.
      d. Wear Resistance: In addition to specified grade, comply with NEMA LD 3 High Wear Grade requirements for wear resistance.
      e. Finish: As indicated on the Finish Schedule of the Drawings.
      f. Surface Color and Pattern: As indicated on drawings.
   2. Exposed Edge Treatment: Molded rubber edge with T-spline, sized to completely cover edge of panel.
      a. Color: As indicated on the drawings or if not indicated as selected by Architect from the manufacturer's full line..
   3. Back and End Splashes: Same material, same construction.
   4. Fabricate in accordance with AWI/AWMAC/WI (AWS), Section 11 - Countertops, Custom Grade.

C. Solid Surfacing Countertops: Solid surfacing sheet or plastic resin casting over continuous substrate.
   1. Flat Sheet Thickness: 1/2 inch, minimum.
   2. Solid Surfacing Sheet and Plastic Resin Castings: Complying with ISFA 2-01 and NEMA LD 3; acrylic or polyester resin, mineral filler, and pigments; homogenous, non-porous and capable of being worked and repaired using standard woodworking tools; no surface coating; color and pattern consistent throughout thickness.
      a. Manufacturers:
         1) As indicated on the drawings.
         2) Substitutions: Not permitted.
      b. Sinks and Bowls: Integral castings; minimum 3/4 inch wall thickness; comply with IAPMO Z124.
      c. Finish on Exposed Surfaces: As indicated on the drawings.
   3. Other Components Thickness: 1/2 inch, minimum.
   4. Exposed Edge Treatment: Built up to minimum 1-1/4 inch thick; square edge; use marine edge at sinks.
   5. Back and End Splashes: Same sheet material, square top; minimum 4 inches high.
   6. Skirts: As indicated on drawings.

D. Natural Quartz and Resin Composite Countertops: Sheet or slab of natural quartz and plastic resin over continuous substrate.
   1. Flat Sheet Thickness: 1-1/4 inch, minimum.

2. Natural Quartz and Resin Composite Sheets, Slabs and Castings: Complying with ISFA 3-01 and NEMA LD 3; orthophthalic polyester resin, mineral filler, and pigments; homogenous, non-porous and capable of being worked and repaired using standard stone fabrication tools; no surface coating; color and pattern consistent throughout thickness.
    a. Manufacturers:
        1) As indicated on the drawings.
        2) Substitutions: Not permitted.
    b. Factory fabricate components to the greatest extent practical in sizes and shapes indicated; comply with NSI (DSDM).
    c. Surface Burning Characteristics: Flame spread index of 25, maximum; smoke developed index of 450, maximum; when tested in accordance with ASTM E84.
    d. Finish on Exposed Surfaces: Polished.
    e. Color and Pattern: As indicated on drawings.
3. Other Components Thickness: 3/4 inch, minimum.
4. Back and End Splashes: Same sheet material, square top; minimum 4 inches high.
5. Skirts: As indicated on drawings.

2.02 MATERIALS

A. Extruded Aluminum: ASTM B211/B211M, 6463 alloy, T5 temper.

B. Plywood for Supporting Substrate: PS 1 Exterior Grade, A-C veneer grade, minimum 5-ply; minimum 3/4 inch thick; join lengths using metal splines.

C. Adhesives: Chemical resistant waterproof adhesive as recommended by manufacturer of materials being joined.

2.03 ACCESSORIES

A. Fixed Top-Mounted Countertop Support Brackets:

2.04 FABRICATION

A. Fabricate tops and splashes in the largest sections practicable, with top surface of joints flush.
    1. Join lengths of tops using best method recommended by manufacturer.
    2. Fabricate to overhang fronts and ends of cabinets 1 inch except where top butts against cabinet or wall.
        a. Rout a 1/8 inch drip groove at underside of exposed overlapping edges, set back 1/2 inch from face of edge.
    3. Prepare all cutouts accurately to size; replace tops having improperly dimensioned or unnecessary cutouts or fixture holes.

B. Provide back/end splash wherever counter edge abuts vertical surface unless otherwise indicated.
    1. Secure to countertop with concealed fasteners and with contact surfaces set in waterproof glue.
    2. Height: 4 inches, unless otherwise indicated.

C. Solid Surfacing: Fabricate tops and wall panels up to 144 inches long in one piece; join pieces with adhesive sealant in accordance with manufacturer's recommendations and instructions.
    1. Integral sinks: Shop-mount securely to countertop with adhesives, using flush configuration, as per manufacturer's instructions, and as detailed on drawings.

PART 3 EXECUTION

3.01 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

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

C. Verify that wall surfaces have been finished and mechanical and electrical services and outlets are installed in proper locations.

3.02 PREPARATION

A. Clean surfaces thoroughly prior to installation.

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

3.03 INSTALLATION

A. Securely attach countertops to cabinets using concealed fasteners. Make flat surfaces level; shim where required.

B. Attach plastic laminate countertops using screws with minimum penetration into substrate board of 5/8 inch.

C. Seal joint between back/end splashes and vertical surfaces.

3.04 TOLERANCES

A. Variation From Horizontal: 1/8 inch in 10 feet, maximum.

B. Offset From Wall, Countertops: 1/8 inch maximum; 1/16 inch minimum.

C. Field Joints: 1/8 inch wide, maximum.

3.05 CLEANING

A. Clean countertops surfaces thoroughly.

3.06 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Date of Substantial Completion.

END OF SECTION

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Archimages
143 West Clinton Place
St. Louis, MO 63122
314.965.7445
www.archimages-stl.com