

LEWIS CENTRAL COMMUNITY SCHOOLS

LEWIS CENTRAL HIGH SCHOOL WRESTLING WALL REMOVAL



3504 Harry Langdon Blvd.
Council Bluffs, Iowa 51503



Project Manual Combined Contract

BCDM Project Number: 5551-06

9 March 2026

**DIVISION 00 – PROCUREMENT AND
CONTRACTING REQUIREMENTS**

SECTION 00 01 07
SEALS PAGE

OWNER:

- A. Lewis Central Community School District
4121 Harry Langdon Blvd.
Council Bluffs, Iowa 51503
Phone: (402) 453-2468

ARCHITECT:

- A. BCDM Architects
1015 North 98th Street, Suite 300
Omaha, Nebraska 68114-2334
Phone: 402-391-2211

- B. I, Greg Stieren, am the Coordinating Professional and Architect for the Lewis Central High School Wrestling Wall Removal dated March 9, 2026.

	I HEREBY CERTIFY THAT THE PORTION OF THIS TECHNICAL SUBMISSION DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND RESPONSIBLE CHARGE. I AM A DULY REGISTERED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF IOWA.
	SIGN & DATE: <u><i>Greg Stieren</i></u> <u>3/9/2026</u> PRINTED NAME: GREGORY S. STIEREN LICENSE NUMBER: <u>07744</u> MY LICENSE RENEWAL DATE IS JUNE 30: <u>2027</u> PAGES/ SHEETS/ DIVISIONS COVERED BY THIS SEAL: <u>Divisions 0 through 9</u>
ONLY THESE COPIES OF THIS DOCUMENT SIGNED IN CONTRASTING INK COLOR ARE TO BE CONSIDERED CERTIFIED OFFICIAL COPIES PER IOWA ADMINISTRATION CODE 554D.	

Lewis Central High School
Wrestling Wall Removal

STRUCTURAL ENGINEER:

	<p>I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA</p> <p><i>J.F. Lange</i> <i>3/9/20</i></p> <p>JAMES F LANGE, SE</p> <p>LICENSE NUMBER: 20084 LICENSE RENEWAL DATE: DECEMBER 31, 2027</p> <p>DIVISIONS COVERED BY THIS SEAL: 03, 05</p>
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END OF SECTION

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ADVERTISEMENT FOR BIDS**

1.01 THE OWNER:

- A. Lewis Central Community School District, 4121 Harry Langdon Blvd., Council Bluffs, Iowa 51503.

1.02 THE ARCHITECT:

- A. BCDM Architects , 1015 North 98th Street, Suite 300, Omaha, Nebraska 68114.
- B. BCDM Project No. 5551-06

1.03 TO: POTENTIAL BIDDERS

- A. The Lewis Central Community School District will receive sealed bids for a Combined Contract, including General, Mechanical and Electrical Work for the Lewis Central High School Wrestling Wall Removal located at 3504 Harry Langdon Boulevard, Council Bluffs, Iowa 51503.
- B. This Project consists of the removal of an interior wall and associated Structural, Mechanical, and Electrical work as shown on the Drawings.
- C. Bids must be on a Lump Sum basis.
- D. Bids for the Lewis Central High School Wrestling Wall Removal will be received until 2:00 p.m. local time, April 2, 2026, at the Lewis Central Education Resource Center located at 4121 Harry Langdon Blvd., Council Bluffs, Iowa
- E. Bids received after this time will not be accepted. Bids will be publicly opened and read aloud.
- F. Bidding Documents may be examined at the following exchanges after March 9, 2026:
 - 1. DODGE DATA & ANALYTICS, 4300 Beltway Place, Suite 150, Arlington, TX 76018
 - 2. OMAHA BUILDERS EXCHANGE, 4159 South 94th Street, Omaha, NE 68127
 - 3. CONSTRUCT CONNECT, 30 Technology Parkway South, Suite 500, Norcross, GA 30092-2912
 - 4. LINCOLN BUILDERS BUREAU, 5910 South 58 St., Suite C, Lincoln, NE 68516
 - 5. MASTER BUILDERS OF IOWA, 4100 Westown Pkwy, West Des Moines, IA 50266
 - 6. SIOUX CITY BLUE PRINT, 709 Douglas Street, Sioux City, Iowa 51101
 - 7. SIOUX CITY CONSTRUCTION LEAGUE, 3900 Stadium Drive, Sioux City, Iowa 51102
 - 8. STANDARD SHARE, <http://www.standardsharev3.com>
- G. Bidders may obtain Bidding Documents electronically from A & D Technical Supply, 4320 South 89th Street, Omaha, Nebraska 68127 (402-592-4950) OR from Master Builders of Iowa, 4100 Westown Pkwy, West Des Moines, IA 50266 (515 288-8904) from 8:00 a.m. until 5:00 p.m. local time, Monday through Friday, in accord with the Instructions to Bidders.
- H. Bid security in the amount of 5 percent of the bid must accompany each bid in accord with the Instructions to Bidders.
- I. There will be a Pre-Bid Conference held at Lewis Central High School at 3:00 p.m. local time on March 18, 2026. Attendance of this Pre-Bid Conference is **suggested** for all General Contractors. Other subcontractors are highly encouraged to attend this Pre-Bid Conference.
- J. The Owner reserves the right to reject any or all bids and to waive informalities or irregularities in the bidding.

DR. BRENT HOESING

SUPERINTENDENT OF SCHOOLS

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

END OF SECTION

**SECTION 00 20 13
INSTRUCTIONS TO BIDDERS**

PROJECT NAME: LEWIS CENTRAL HIGH SCHOOL WRESTLING WALL REMOVAL

PROJECT CITY/STATE: COUNCIL BLUFFS, IOWA

BCDM PROJECT NO.: 5551-06.

1.01 INFORMATION FOR BIDDERS:

- A. To be considered, bids must be made in accord with these Instructions to Bidders.
- B. Bidding Documents. Copies of the Bidding Documents may be obtained electronically from the printer, A & D Technical Supply, 4320 South 89th Street, Omaha, Nebraska 68127 (402-592-4950) OR from Master Builders of Iowa, 4100 Westown Pkwy, West Des Moines, IA 50266 (515 288-8904) between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday. Planholder's list and addenda, if any, may be viewed at www.adtechsupply.com OR www.mbi.build.
- C. Examination. Bidders shall carefully examine the Bidding Documents and construction site to obtain firsthand knowledge of existing conditions. Contractors will not be given extra payments for conditions which can be determined by examining the Bidding Documents.
- D. Submission of a bid will be construed that bidders are in compliance with this instruction.
- E. Questions. Submit all questions about Bidding Documents to the Architect, except Electrical questions shall be submitted to the Consulting Engineer, Morrissey Engineering. Replies will be issued to all Bidders of record as Addenda to the Drawings and Project Manual, and will become part of the Contract. The Architect/ Engineer and the Owner will not be responsible for oral clarification. Questions received less than 48 hours before the bid opening that will affect project construction schedule or project cost cannot be answered.
- F. Substitutions. To obtain approval to use unspecified products, bidders shall submit written requests at least 14 calendar days before the bid date and hour. Requests received after this time will not be considered. Requests shall clearly describe the product for which approval is asked, including all data necessary to demonstrate acceptability. If the product is acceptable, the Architect/Engineer will approve it in an Addendum issued to all bidders of record.
- G. Voluntary Substitutions. In the proper spaces shown on the Bid Form, proposals for substitute materials of other makes, but of similar design and equal quality, capacity and performance, are desired. The name and catalog number of proposed substitute items shall be given. The proposal of the substitute item is for the information of the Owner in the selection of desired materials from the successful bidder and will not affect the award of the Contract. The Lump Sum Base Bid shall be based upon the products specified or approved by Addendum.
- H. Basis of Bids. The bidder must include all bid items shown on the bid form; failure to comply may be cause for rejection. No segregated bids or assignments will be considered.
- I. Bid Security. Cash or a certified check, cashier's check, money order, or bank draft payable to the Lewis Central Community School District or a bid bond executed by the bidder, in the amount of 5 percent of the amount of the bid, shall be submitted with each bid.
- J. If a Bid Bond is submitted, it shall be issued by a surety company authorized by the State of Iowa to issue such bonds, and shall be acceptable to the Owner, and shall be submitted on AIA Document A310, February 1970 or later edition.
- K. Bid Security of the 2 lowest bidders will be retained until a contract is entered into and required bonds and insurance filed. This period will not exceed 30 days after the date of receipt of bids. The Bid Security of others will be returned after tabulation of bids is completed.
- L. Sales and Use Tax:
 - 1. Iowa Use Taxes shall be paid on all supplies and materials used in, and made component parts of, the Project.

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2. Iowa Sales Taxes shall not be paid on qualified building materials purchased, or withdrawn from inventory, which will be incorporated into real property for Project.
 3. The Owner is a designated exempt entity and will complete an online application to register this Contract with the Iowa Department of Revenue and Finance. The Owner will distribute Tax Exemption Certificates and Authorization Letters to the Contractor and all Subcontractors who have been identified at, or before filing of the Performance Bond. Refer to Iowa Department of Revenue and Finance publications available at <http://www.state.ia.us/tax/business/Contr-ExEnt-Index.html>.
- M. Federal Excise Tax. The Owner is exempt from Federal Excise Tax. The bidder shall exclude from his bid all Federal Excise Tax on taxable items.
- N. Preparation of Bids. Bids shall be made on unaltered bid forms furnished by the Architect/Engineer. Fill in all blank spaces, and submit one copy. Bids shall be signed with the name typed below the signature. Where the bidder is a corporation, the bid must be signed with the legal signature of an officer authorized to bind the corporation to a Contract.
- O. Permits and Fees. Unless specifically noted below, all required permits and fees shall be applied and paid for by the General Contractor (or Subcontractor as coordinated by the GC).
- P. All utility company charges and inspection fees shall be paid by the appropriate Contractor or Subcontractor. All licenses (both permanent and temporary) necessary to perform the work shall be applied and paid for by the Contractor and appropriate Subcontractors.
- Q. Online Submittal Service Use and Fees. The General Contractor shall be responsible for establishing, paying the fees for, coordinating and utilizing an Online Submittal Service designed specifically for transmitting submittals between construction team members. See Section 01 30 00 - Administrative Requirements for additional information.
- R. Insurance requirements for the Contractor shall be as specified in the Supplementary Conditions of the Contract for Construction.
- S. Submittal: Bids shall be submitted in opaque, sealed envelopes bearing on the outside the bidder's name and address, and marked "Bid for Lewis Central High School Wrestling Wall Removal - Combined Contract." If bids are sent by mail, they shall be received prior to the Bid Date and Time by Dr. Brent Hoelsing - Superintendent of Schools, Lewis Central Community School District - 4121 Harry Langdon Blvd., Council Bluffs, Iowa 51503.
- T. Modification and Withdrawal. Bids may not be modified after submittal. Bidders may withdraw bids at any time before opening, but may not resubmit them. No bid may be withdrawn or modified after the bid opening, except where the award of the Contract has been delayed for 30 days or more.
- U. Acceptance or Rejection of Bids. The Owner may reject any or all bids or waive defects in any bid if it be in his interest to do so.
- V. The Owner and the Architect/Engineer may make such investigations as they deem necessary to determine the ability of the bidder to perform the work, and the bidder shall furnish to them all such information and data for this purpose as they may request. The Owner and the Architect/Engineer reserve the right to reject any bid if the evidence submitted by, or investigation of such bidder fails to satisfy them that such bidder is properly qualified to carry out the obligations of the Contract and to complete the Work contemplated therein. Conditional bids may not be accepted.
- W. Disqualification. The Owner reserves the right to disqualify bids, before or after opening, upon evidence of collusion with the intent to defraud or other illegal practices upon the part of the bidder.
- X. Opening. Bids will be received until 2:00 p.m., local time, on April 2, 2026, at the Lewis Central Education Resource Center located at 4121 Harry Langdon Blvd., Council Bluffs, Iowa 51503. Bids received after this time will not be accepted.
- Y. Bids will be publicly opened and read aloud.

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- Z. Schedule for Award of Contract and Substantial Completion. The required Substantial Completion date and date of Final Completion are specified in Section 01 10 00. While the paragraph above entitled "Modification and Withdrawal" requires that bids remain firm and valid for 30 days after the receipt of bids, it is the Owner's intent to present the bids and award a Contract on April 6, 2026 at 6:00 pm.

END OF SECTION

**SECTION 00 30 30
BID FOR COMBINED CONTRACT**

PROJECT NAME: LEWIS CENTRAL HIGH SCHOOL WRESTLING WALL REMOVAL

PROJECT CITY/STATE: COUNCIL BLUFFS, IOWA

BCDM PROJECT NO.: 5551-06

0.01 BIDDING INFORMATION:

- A. Bid of _____ a
corporation organized and existing under the laws of the State of

_____; or a partnership consisting of

_____, partners; or an
individual hereinafter called the bidder.
- B. To: Dr. Brent Hoelsing
Superintendent of Schools
Lewis Central Community School District
4121 Harry Langdon Blvd.
Council Bluffs, Iowa 51503
- C. The undersigned acknowledges that he/she has received and familiarized himself/herself with the following:
1. Project Manual dated March 9, 2026.
 2. Drawings:
 - a. Sheets A1-0 thru A1-1 (2 Sheets)
 - b. Sheets S1-1 (1 Sheet)
 - c. Sheets M1-0 (1 Sheet)
 - d. Sheets E0-0 thru E1-0 (2 Sheets)
 3. Addenda: No. _____ through _____
- D. The undersigned further acknowledges that he/she has visited the site and familiarized himself/herself with local conditions affecting the cost of the Work at the place where the Work is to be done.
- E. In submitting this bid, the undersigned agrees:
1. To furnish all material, labor, tools, expendable equipment, and all utility and transportation services necessary to perform and complete, in a workmanlike manner, all of the Work required for the Combined Contract, including General Construction, Mechanical Work and Electrical Work in accord with the Bidding Documents prepared by BCDM and its subconsultants, for the consideration hereinafter set forth.
 2. To hold his/her bid open for 30 days after the receipt of bids, and to accept the provisions of the Instructions to Bidders regarding disposition of Bid Security.
 3. To enter into and execute a Contract, if awarded on the basis of this bid, and to furnish a Performance Bond and a Payment Bond in accord with the General Conditions and General Requirements of this Contract.
 4. To start and complete the Work according to the schedule specified in Section 01 10 00, and as shown on the Drawings.

0.02 BIDDING REQUIREMENTS:

- A. **LUMP SUM BASE BID.** The undersigned hereby proposes and agrees to perform the foregoing, for the Lump Sum of

_____ Dollars

(\$ _____).

(Amount shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern).

- B. **VOLUNTARY SUBSTITUTIONS.** The undersigned proposes the following Voluntary Substitutions:

1.	<u>Product</u>	<u>Manufacturer</u>	<u>Model No.</u>	<u>Difference in Cost</u>
a.	_____	_____	_____	Add/Deduct \$ _____
b.	_____	_____	_____	Add/Deduct \$ _____
c.	_____	_____	_____	Add/Deduct \$ _____
d.	_____	_____	_____	Add/Deduct \$ _____

- C. The undersigned has attached the required Bid Security as stated in the Instructions to Bidders.
D. In submitting this bid, it is understood that the right to reject any and all bids and to waive irregularities in the bidding has been reserved by the Owner.

Dated this _____ day of _____, 2026

Name of Bidder

Address

City / State / Zip

Authorized Officer

Telephone Number

Fax Number

END OF SECTION

**SECTION 00 60 00
PROJECT FORMS**

PART 1 GENERAL

1.01 SUMMARY

- A. The following project forms shall be used for their indicated purpose. All forms shall be furnished and prepared by the Contractor, except as noted.
- B. These forms may be examined at the office of the Architect/Engineer.
- C. Standard American Institute of Architects (AIA) forms are available for purchase from the following address:
 - AIA Nebraska
 - 102 Architecture Hall, University of Nebraska-Lincoln
 - PO Box 80045
 - Lincoln, Nebraska 68501-0045
 - Phone: (402) 472-1456

1.02 PROJECT FORMS

- A. BID PROPOSAL FORM - STIPULATED SUM
 - 1. Copy included previously under Section 00 30 30.
 - 2. Submit one copy.
- B. BID BOND
 - 1. AIA Document A310.
 - 2. Submit one copy with bid.
- C. PERFORMANCE BOND AND LABOR AND MATERIAL PAYMENT BOND
 - 1. Submit AIA Document A312.
 - 2. Submit three copies with contracts.
- D. CONTRACTOR'S QUALIFICATION STATEMENT
 - 1. AIA Document A305.
- E. GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION
 - 1. AIA Document A201 as modified by Owner.
 - 2. Copy included following Section 00 72 00.
- F. APPLICATION AND CERTIFICATE FOR PAYMENT AND CONTINUATION SHEETS
 - 1. AIA Document G702 and AIA Document G703.
 - 2. Contractor to submit a minimum of three copies.
- G. CONSENT OF SURETY COMPANY TO FINAL PAYMENT
 - 1. AIA Document G707.
 - 2. Submit two copies.

PART 2 NOT USED.

PART 3 NOT USED.

END OF SECTION

**SECTION 00 63 00
CLARIFICATION AND MODIFICATION FORMS**

PART 1 SCOPE

1.01 GENERAL

- A. The following clarification and modification forms shall be used for their indicated purpose. All forms shall be furnished and prepared by the Architect/Engineer.
- B. These forms may be examined at the office of the Architect/Engineer.

1.02 SAMPLE FORMS

- A. CHANGE ORDER
 - 1. AIA Document G701.
 - 2. Furnished by Architect/Engineer.
- B. PROPOSAL REQUEST
 - 1. AIA Document G709
 - 2. Furnished by Architect/Engineer.
- C. ARCHITECT/ENGINEER'S SUPPLEMENTAL INSTRUCTIONS
 - 1. AIA Document G710
 - 2. Furnished by Architect/Engineer.
- D. CONSTRUCTION CHANGE DIRECTIVE
 - 1. AIA Document G714.
 - 2. Furnished by Architect/Engineer.

PART 2 NOT USED.

PART 3 NOT USED.

END OF SECTION

**SECTION 00 72 00
GENERAL AND SUPPLEMENTARY CONDITIONS**

OF THE CONTRACT FOR CONSTRUCTION

1.01 GENERAL CONDITIONS

A. ARTICLES 1 THROUGH 15

1. The General Conditions of this Contract is the American Institute of Architects' Document A201, THE GENERAL CONDITIONS OF THE CONTRACT FOR THE CONSTRUCTION, 2007 Edition, 16 Articles, 43 pages, hereinafter referred to as the General Conditions, a copy of which may be referred to at the office of the Architect/Engineer.

1.02 SUPPLEMENTARY CONDITIONS

A. MODIFICATIONS OF THE GENERAL CONDITIONS

1. The following supplements modify, change, delete from, or add to the "General Conditions of the Contract for Construction", AIA Document A201, 2007 Edition. Where any Article of the General Conditions is modified or any Paragraph, Subparagraph, or Clause thereof is modified or deleted by these supplements, the unaltered provisions of that Article, Paragraph, Subparagraph, or Clause shall remain in effect.

B. MODIFICATION OF PARAGRAPH 2.2.5

1. Delete the last portion of this paragraph starting at "...Owner shall furnish..." and replace with the following:
"...Contractor will be furnished, free of charge, such copies of Drawings and Project Manuals as are reasonably necessary for execution of the work."

C. MODIFICATION OF PARAGRAPH 3.3 SUPERVISION AND CONSTRUCTION PROCEDURES

1. Add the following Subparagraph 3.3.4:
"3.3.4 The Prime General Contractor shall be responsible for assuring that the Mechanical and Electrical Subcontractors and all other involved trades have properly coordinated the exact placement of ducts, piping, lights conduit and other items in order to fit those items within the spaces provided. After extensive coordination and investigation, the Mechanical, Electrical and Structural Engineers and the Architect believe that, to the best of their knowledge, the items shown will fit within the spaces provided above ceilings, in walls, etc., if there is a reasonable amount of on-site preplanning and coordinating by the involved trades. The Drawings are diagrammatical and thus, bidders should expect that minor changes in the location, exact routing and size/proportion of certain ducts and other items will be necessary in order to fit the available spaces. Extra costs will not be accepted by the Owner and redesign will not be performed by the Architect/Engineer if such costs or redesign are necessitated by the Contractor's failure to perform routine coordination of the involved elements before the first of those items are installed. Extra costs and/or design will be an acceptable alternative if the items shown will not fit after the reasonable amount of field coordination outlined above has been accomplished."

D. MODIFICATION OF PARAGRAPH 3.6, TAXES

1. Add the following at the end of Paragraph 3.6:
 - a. "See Instructions to Bidders for other information regarding the responsibility of the Contractor relating to taxes."

E. MODIFICATION OF PARAGRAPH 3.7 PERMITS, FEES AND NOTICES AND COMPLIANCE WITH LAWS

1. Add the following at the end of Subparagraph 3.7.1:
 - a. "See Instructions to Bidders for other information regarding responsibilities of the Owner and Contractor for obtaining permits and paying for them."

F. MODIFICATION OF PARAGRAPH 3.9, SUPERINTENDENT

1. Add the following Subparagraph 3.9.4:
 - a. "3.9.4" The project superintendent shall be on the site as a full time employee of the Contractor, and solely dedicated to his/her responsibilities as superintendent for this Project. The superintendent shall be the same person throughout the construction period, and on the site from beginning of construction through the date of Substantial Completion. If the superintendent cannot continue his/her responsibilities throughout the construction period, the Contractor shall notify the Architect/Engineer in writing immediately. Substituting superintendent personnel by the Contractor must be approved in writing by the Architect/Engineer. The credentials of the person to serve as superintendent shall be submitted to the Architect/Engineer for approval."

G. MODIFICATION OF PARAGRAPH 7.2, CHANGE ORDERS

1. Add the following Subparagraph 7.2.2:
 - a. "7.2.2 The maximum percent which shall be allowed for Contractor's combined overhead and profit shall be as follows:
 - 1) For the Subcontractor, 10 percent of the net extra cost of the work he/she performs.
 - 2) For the Contractor, 5 percent of the net extra cost of the work performed by the Subcontractors.
 - 3) For the Contractor, 10 percent of the net extra cost of the work he/she performs with his/her own forces.
 - (a) The cost shall include all direct and necessary production costs of the work itself, i.e., labor and items incidental to labor (such as public liability and workmen's compensation insurance, old-age and unemployment insurance, social security), pro-rata charges for foremen, material, and the use of power tools and equipment. Among the items to be considered as overhead and not as cost are supervision, superintendents, timekeepers, clerks, watchmen, small tools; incidental job burdens, and general office expense. Costs for other insurance not previously stated and bond(s) required by the Contract shall be added to the subtotal after the previously stated percentage increases for overhead and profit are calculated.
 - (b) For each Change Order issued, the Contractor shall furnish an itemized, bona fide, written proposal in multiple-copy form and with such supporting papers as the Architect/Engineer may require."

H. MODIFICATION OF PARAGRAPH 8.3, DELAYS AND EXTENSION OF TIME

1. At Subparagraph 8.3.1, in line 5, delete the words "and arbitration".

I. MODIFICATION TO PARAGRAPH 9.3, APPLICATIONS FOR PAYMENT

1. Add the following at the end of Subparagraph 9.3.2:
 - a. Application for Payment may also be submitted for materials stored off-site, but only if these materials are stored in an insured facility within a 50 mile radius of the project location, and only if the respective Application contains evidence that such materials are properly insured. The Architect/Engineer will furnish, "Off-Site Storage Agreement" forms which must be filled out and attached to each Application which requests payment for materials stored off-site. Invoices for the materials stored off-site shall also be attached to the Application."

J. MODIFICATION OF PARAGRAPH 11.1, CONTRACTOR'S LIABILITY INSURANCE

1. Delete Paragraph 11.1.2 in its entirety, and substitute the following:
 - a. "11.1.2 The insurance required by Subparagraph 11.1.1 shall be written for not less than limits of liability specified below, or required by law, whichever coverage is greater. Coverages, whether written on an occurrence or claims-made, shall be maintained without interruption from date of commencement of the work until date of final payment and termination of any coverage required to be maintained after final payment."
 - b. Insurance required by Section 11.1.2, shall be written for not less than limits of liability specified or required by law, whichever is greater:
 - c. Workers' Compensation - Statutory. Employers' Liability Insurance with minimum limits shown below
 - 1) Bodily injury by accident \$500,000 each accident
 - 2) Bodily injury by disease \$500,000 each accident
 - 3) Bodily injury by disease \$500,000 policy limit
 - d. Commercial General Liability Insurance, which shall be no less comprehensive and no more restrictive than coverage provided by a standard form Commercial General Liability Policy (ISO CG0001) with minimum limits shown below covering bodily injury, property damage and personal injury.
 - 1) General Aggregate Limit \$2,000,000
 - 2) Products Completed Operations Aggregate Limit \$2,000,000
 - 3) Personal and Advertising Injury Limit \$1,000,000
 - 4) Each Occurrence Limit \$1,000,000
 - 5) Fire Damage Limit (any one fire) \$ 50,000
 - 6) Medical Damage Limit (any one person) \$ 5,000
 - 7) This insurance must include the following features:
 - (a) Coverage shall be on an occurrence form and not claims made.
 - (b) Coverage for all premises and operations. Policy shall be endorsed to provide a per project aggregate endorsement.
 - (c) Personal and advertising injury.
 - (d) Operations by independent contractors.
 - (e) If work to be performed by Contractor includes construction or demolition operations within 50 feet of any railroad property and affecting any railroad bridge or trestle, tracks, road beds, tunnel, underpass, or crossing, then such policy will include coverage for work done within 50 feet of a railroad right of way.
 - (f) Coverage for demolition of any building or structure, collapse, explosion, blasting, excavation and damage to property below surface of ground (XCU coverage)
 - (g) Policy shall not contain a total or absolute pollution exclusion. Coverage shall be provided for pollution exposures arising from products and completed operations. (As per standard CG0001 Pollution Exclusion or equivalent.)
 - (h) Products and completed operations shall be maintained for duration of work, and shall be further maintained for a minimum period of one year after final acceptance and payment, unless modified in the Special Provisions.
 - (i) In lieu of including Owner as an additional insured on Contractor's commercial general liability insurance, Owner, at its option, may require Contractor to provide an Owner's protective liability policy by special provision, or may allow Contractor to provide an Owner's protective liability policy by change order. If an Owner's protective liability policy is provided, minimum coverage, limits and exclusions shall be as shown above, and

Contractor's premium cost of obtaining such insurance shall be as shown above, and Contractor's premium cost of obtaining such insurance shall be considered incidental to work and shall not be subject to reimbursement by Owner.

- (j) Broad form blanket contractual liability to be included. Defense costs shall be in addition to policy limits.
- e. Automobile Liability Insurance, which shall be at least as broad as and no less restrictive than ISO form CA 0001, covering all owned, non-owned, hired and leased vehicles with a minimum combined single limit for bodily injury and property damage of \$1,000,000 per accident. Insurance must include contractual liability coverage. Policy shall provide auto cargo pollution endorsement (ISO CA 99 48, or equivalent), if requested in special provisions. If work to be performed by Contractor includes construction or demolition operations within 50 feet of any railroad property and affecting any railroad bridge or trestle, tracks, road beds, tunnel, underpass, or crossing, then such policy will include coverage for work done within 50 feet of a railroad right of way.
- f. Railroad Protective Liability, if required by Owner by special provision, or by an affected railroad, Contractor shall procure and maintain railroad protective liability insurance naming railroad as insured with minimum limit for bodily injury and property damage liability of \$2,000,000 per occurrence, \$6,000,000 aggregate, or with such other limits as railroad shall require. Original of said policy shall be furnished to railroad and a certified copy of said policy shall be furnished to Owner prior to any construction or entry upon railroad easement premises by Contractor.
- g. Umbrella/Excess Insurance: Limits of \$2,000,000 each occurrence and aggregate.
- h. Additional Insured Endorsements: Except for Workers' Compensation and Auto Liability, insurance specified shall:
 - 1) Name Owner and Architect/Engineer as an additional insured, including Completed Operations for one year, with respect to liability for bodily injury, property damage, or personal & advertising injury caused in whole or in part by Contractor's acts or omissions or the acts or omissions of those acting on your behalf.
 - 2) General Liability additional insured shall be primary and non contributory.
- i. Waiver of Subrogation in favor of Owner and Architect/Engineer on auto liability, general liability, workers compensation, and umbrella/excess liability.
- j. Certificate of Insurance
 - 1) 1. Contractor shall file with Owner and each additional insured, a Certificate of Insurance on the standard ACORD form (and other evidence of insurance requested by Owner or any other additional insured) as evidence of required coverages and limits, and showing additional insured and waiver of subrogation. Such certificate shall state that the insurer shall endeavor to notify Owner thirty (30) days in advance of cancellation of insurance coverages.
- k. Contractor shall assume full responsibility for all loss or damage from any cause whatsoever to any tools owned by mechanics, any tools, machinery, equipment, or motor vehicles owned or rented by Contractor or Contractor's agents, subcontractors, suppliers of their employees, as well as to any shed or other temporary structures, scaffolding and stagings, protective fences, and bridges.
- l. Contractor shall cause its insurance carrier providing physical damage insurance to Contractor, covering construction equipment, tools, temporary structures and supplies owned or used by Contractor, to provide a waiver of right of subrogation against Owner.
- m. Upon occurrence of any event, liability for which is herein assumed by Contractor, Contractor agrees to forthwith notify Owner in writing of such happening, which notice shall give details as to happening, cause as far as can be ascertained, estimate of loss or damage done, name of witnesses, if any, and stating amount of any claim.

- n. In event Owner has or obtains actual knowledge of any event, liability for which is herein assumed by Contractor, Owner agrees to notify Contractor of such event with a reasonable period of time after acquiring knowledge thereof; provided, however, that Owner shall have no duty to inspect project to obtain knowledge of such events, and provided further that Owner's failure to so notify Contractor shall not relieve Contractor of any liability or obligation which is herein assumed by Contractor."

K. MODIFICATION OF PARAGRAPH 11.3 PROPERTY INSURANCE

- 1. Delete Paragraph 11.3 in its entirety, and substitute the following:
 - a. PROPERTY INSURANCE
 - 1) 11.3.1 It shall be the sole responsibility of the Contractor to maintain as minimum coverage insurance on the Work, all risk coverage in an amount equal to 100 percent of the replacement cost of the Work performed under this Contract with the 90 percent co-insurance clause, and, in addition, the Contractor shall be solely responsible for any amounts which may become payable as a result of any deductible provision, corridor, or self-insured retention of the policy or policies, as well as any losses arising from any uninsured perils. All risk coverage shall include protection against losses by theft of building materials, both installed and uninstalled. All risk coverage shall be maintained from Award of Contract through Substantial Completion.
 - 2) 11.3.2 It is a condition of the Contract that the Owner, Architect/Engineer, and all Contractors and their corporate sureties waive all rights of recovery against each other for damages caused by fire or other perils to the extent such damages are covered by any valid and collectible insurance, and further, that all property insurance policies shall include the standard "waiver of subrogation" clause."

L. MODIFICATION TO PARAGRAPH 11.4 PERFORMANCE BOND AND PAYMENT BOND

- 1. Delete this paragraph in its entirety, and substitute the following:
 - a. PERFORMANCE BOND AND PAYMENT BOND"
 - 1) "11.4.1 A Performance Bond and Payment Bond, each in the amount equal to 100 Percent of the Contract Price, shall be submitted in duplicate to the Architect/Engineer prior to issuance of a Notice-to-Proceed or execution of the Owner-Contractor Agreement (whichever occurs first). Such bonds shall be issued by a surety company acceptable to the Owner and properly licensed in the State of Iowa. Such bonds shall be issued on AIA Document A312, 1984 Edition or later, amended to conform with applicable state statutes.

M. MODIFICATION OF PARAGRAPH 15.1.6, CLAIMS FOR CONSEQUENTIAL DAMAGES

- 1. Delete the first part of the second sentence of Subparagraph 15.1.6 that states "This mutual waiver includes:", and substitute "This mutual waiver includes, but is not limited to:".

N. MODIFICATION OF PARAGRAPH 15.4, ARBITRATION

- 1. Delete 15.4 in its entirety.

1.03 ADD ARTICLE 16 AS FOLLOWS:

A. ARTICLE 16 - ADDITIONAL CONDITIONS

- 1. 16.1 - PRODUCT CERTIFICATION
 - a. 16.1.1 The Contractor shall provide to the Owner a written certification statement that all materials incorporated into the project do not contain asbestos. This certification must be submitted to the Owner prior to final closeout of the project.
- 2. 16.2 - SMOKING LIMITATIONS
 - a. 16.2.1 The use of tobacco and/or use of tobacco products in any school building, upon school grounds or in any school vehicles owned, leased, or operated by the Lewis Central Community School District are prohibited.
- 3. 16.3 - EXCLUSION OF PERSONS WITH CRIMINAL RECORDS

- a. 16.3.1 The Owner requires that firms agree to not assign any individual or agent to any work on an awarded project, requiring work on a Lewis Central Community School District site, with a criminal record of a serious nature including but not limited to any of the following: (a) a felony; (b) rape, including statutory rape, or any other sexual assault; (c) sexual conduct with a minor of any kind; (d) abuse of a minor child of any kind; (e) endangerment of a child or debauching a minor; (f) public indecency; (g) prostitution, pandering, or keeping a place of prostitution; (h) assault or battery; (i) kidnapping, false imprisonment or abduction; (j) child pornography; or (k) any offense in which a minor was a victim or a witness. Bidder agrees, by signing this proposal, to cooperate in obtaining any additional authorization or consent necessary to assure compliance with this requirement; to actively continue and implement this policy throughout any awarded project or contract period and to require implementation of this policy by any subcontractors and/or agents involved by the Bidder in the performance of any awarded project or contract.
4. 16.4 - FIRE SPRINKLER SYSTEM COORDINATION AND WARRANTY
 - a. 16.4.1 The General Contractor and Sprinkler Subcontractor shall meet with the Architect/Engineer to coordinate routing of all piping and head placement in exposed areas prior to submittal of shop drawings to ascertain the aesthetic requirements in such areas.
 - b. 16.4.2 The General Contractor shall take full responsibility for locating all fire sprinkler lines and heads within the building at locations not subject to freezing condition. For areas of building, where that is not deemed possible, a "dry" system shall be substituted as described in the fire sprinkler specifications. The Contractor, in locating such piping and heads, shall take into account the possibility that the interior space temperature may be reduced to approximately 60 degrees through the Owner's off-hours temperature control set back.
 - c. 16.4.3 In areas where concealment of sprinkler piping is required, if the General Contractor and/or Sprinkler Contractor determines that additional chases, bulkheads and other architectural modifications are required in order to conceal the piping while complying with the above freeze production requirements, he/she shall coordinate such concerns with the Architect/Engineer prior to submittal of shop drawings.
 - d. 16.4.4 All entry vestibules and other minimally conditioned spaces, where system piping, heads and/or drop nipples are subject to freezing, dry pendent sprinklers shall be used.
 - e. 16.4.5 The General Contractor shall coordinate installation of the fire sprinkler system with the insulation characteristics of the building, and warrant the fire sprinkler system against freezing for a period of 2 years from date of Substantial Completion. Such warranty shall cover the cost of repair including damaged building materials. Such warranty shall not cover freezing in the event of a loss of heat due to malfunction or shut down of mechanical heating system beyond normal set backs previously stated.

END OF SECTION

DIVISION 01 – GENERAL REQUIREMENTS

**SECTION 01 10 00
SUMMARY**

PART 1 GENERAL

1.01 WORK UNDER THIS CONTRACT INCLUDES:

- A. All material, labor, tools, expendable equipment, transportation and utility services, and all incidental items necessary to perform and complete, in a workmanlike manner, the Work required for the Combined Construction, including General and Electrical Work, for the Lewis Central High School Wrestling Wall Removal.

1.02 WORK PERFORMED UNDER SEPARATE CONTRACTS. THE OWNER WILL LET SEPARATE CONTRACTS AS FOLLOWS:

- A. This Combined Contract (including General and Electrical Work)
- B. Access Control System (rough-in conduit under this Combined Contract)
- C. Other items as may be noted on the Drawings or specified herein

1.03 WORK FURNISHED BY OWNER OR OTHERS BUT INSTALLED UNDER THIS CONTRACT INCLUDES THE FOLLOWING:

- A. Other items as may be noted in the Drawings or specified herein.

1.04 WORK BY OTHERS (VIA THE OWNER)

- A. Work furnished, installed and/or accomplished by the Owner or Others includes the following:
 - 1. Technical and Special Equipment.
 - 2. Other items as may be noted on the Drawings or specified herein.

1.05 UTILITY COMPANY CHARGES

- A. All utility company charges and fees related to permanent service shall be paid by the Owner or the Contractor as outlined in the Mechanical and Electrical Specifications. See Section 01 50 00 - Temporary Facilities and Controls for the division of responsibility for payment of utility costs for energy used during construction.

1.06 SEQUENCE AND SCHEDULING OF THE WORK SHALL BE IN ACCORD WITH THE FOLLOWING:

- | | |
|---|---------------|
| A. Receipt of Bids | April 2, 2026 |
| B. Presentation of Bids to Board of Education and Award of Contract | April 6, 2026 |
| C. Start of Construction | May 1, 2026 |
| D. Substantial Completion | July 1, 2026 |
| E. Final Completion | July 17, 2026 |

1.07 CONTRACTOR USE OF PREMISES / WORK HOURS

- A. General: During the construction period, the Contractor shall have shared and limited use of the premises for construction operations. Work hours for the Contractors construction activities shall be limited to coincide with the needs of Lewis Central Community School District. In general, available work times shall be as follows:
 - 1. Owner Occupancy: Allow for continued Owner occupancy and use by the public.
 - 2. Driveways and Entrances: See Civil sheets for use of driveways, entrances, and areas for parking or storage of materials. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.
 - 3. Use of the existing Building: Maintain the existing building in a weather tight condition throughout the construction period. Repair damage caused by construction operations. Take all precautions necessary to protect the building, contents, and its occupants during the construction period.
 - 4. Use of the existing facilities restrooms is not allowed.
 - 5. Coordinate with Owner for times of events and additional requirements.

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6. School Year Activities: Work shall be limited to occur between the hours of 7am and 10pm and only on days when school is normally in-session (i.e. not on weekends, holidays, etc.)
7. Summer (when School is not in Session): Work shall be limited to occur between the hours of 7am and 6pm and only on normal weekdays (i.e. not on weekends, holidays, etc.)

1.08 CONSTRUCTION SCHEDULES

- A. If Contractor fails to adhere to the Construction Schedule, including accepted revisions, the Contractor shall promptly adopt such other or additional means and methods of construction as will make up the time lost and complete the Work in accordance with the Construction Schedule, at no additional cost to the Owner, except as specifically provided in the Contract.
- B. If the Owner notifies the Contractor of any change in the Contract, or if conditions arise which are likely to cause or are actually causing delays, the Contractor shall notify the Owner and Architect, in writing, within 5 days of such notice or the occurrence of such condition. This notice shall document the effect, if any, of such change or condition upon the Construction Schedule, with the reason therefore.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

**SECTION 01 25 00
SUBSTITUTION PROCEDURES**

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes administrative and procedural requirements for requests for substitutions by the Contractor that do not require modification of Contract Sum or Contract Time.

1.03 DEFINITIONS

- A. Substitutions: Changes in products, materials, equipment, and methods of construction proposed by the Contractor after award of the Contract and that do not require modification of Contract Sum or Contract Time are considered to be requests for substitutions.
- B. The following are not considered to be requests for substitutions:
 - 1. Substitutions requested during bidding, and accepted by Addendum prior to award of the Contract.
 - a. Substitutions requested during bidding period must be submitted no later than 14 calendar days prior to date of bid opening.
 - 2. Specified choices of products and options included in the Contract Documents.

1.04 SUBMITTALS

- A. Substitution Request Submittal: Submit the following:
 - 1. Submit 2 copies of each request for substitution for consideration.
 - 2. Identify the product or the fabrication or installation method to be replaced in each request. Include related Specification Section and Drawing numbers.
 - 3. Provide complete documentation showing compliance with the requirements for substitutions, and the following information, as appropriate:
 - a. Coordination information, including a list of changes or modifications needed to other parts of the Work that will be necessary to accommodate the proposed substitution.
 - b. A comparison of qualities of the proposed substitution with those of the Work specified.
 - c. Product Data, including Drawings and fabrication and installation procedures.
 - d. Samples, where applicable or requested.
 - 4. Engineer/Architect Action: If necessary, the Engineer/Architect will request additional information or documentation for evaluation. The Engineer/Architect will notify the Contractor of acceptance or rejection of the substitution in the form of a letter from the Engineer/Architect.

PART 2 PRODUCTS

2.01 SUBSTITUTIONS

- A. The Architect will receive and consider the Contractor's request for substitution only when all of the following conditions are satisfied:
 - 1. Extensive revisions to the Contract Documents are not required.
 - 2. Proposed changes are in keeping with the general intent of the Contract Documents.
 - 3. The request is timely, fully documented, and properly submitted.
- B. Requests for substitutions must be based on at least one of the following conditions:
 - 1. The request is directly related to an "or-equal" clause in the Contract Documents.
 - 2. The specified product cannot be provided within the Contract Time.
 - 3. The specified product cannot receive necessary approval by a governing authority.
 - 4. The specified product cannot be provided in a manner that is compatible with other materials.

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- C. The Architect/Engineer's acceptance of Shop Drawings, Product Data, or Samples not complying with the Contract Documents does not constitute a valid request for substitution, nor do they constitute approval.
- D. It shall be the responsibility of the Mechanical Contractor to coordinate with the Electrical Contractor on all electrical requirements for the equipment prior to ordering. All requirement changes shall be the responsibility of the Mechanical Contractor/Supplier at no additional cost to the project.

PART 3 EXECUTION - NOT USED

END OF SECTION

**SECTION 01 29 00
PROGRESS AND PAYMENT**

PART 1 GENERAL

1.01 APPLICATIONS FOR PAYMENT

- A. Applications for Payment shall be submitted to the Architect/Engineer on or before the eighteenth day of each month for work completed and material stored up to the fifteenth day of that month. Applications for Payment shall be submitted in triplicate on AIA Documents G702 and G703, 1992 edition.

1.02 PAYMENT

- A. Upon review and recommendation by the Architect/Engineer, the Owner will, on or before the day following the second Monday of the following month, pay to the Contractor, on account of the Contract, 90 percent of the value of labor and materials incorporated in the Work and 90 percent of materials suitably stored in accord with Subparagraph 9.3.2 of the General Conditions, up to the fifteenth day of the preceding month.

1.03 REDUCTION IN RETAINAGE AFTER WORK IS 50 PERCENT COMPLETE

- A. After 50 percent of the Work is complete, and upon receipt of Applications for Payment accompanied by Consent of Surety to Reduction in or Partial Release of Retainage executed in triplicate on AIA Document G707A, 1994 or later Edition, the Architect/Engineer may, if he finds satisfactory progress is being made, recommend that any of the remaining Progress Payments be paid in full. The full retainage may be reinstated if the manner of completion of the work and its progress do not remain satisfactory to the Architect/Engineer or the Owner, or for other good and sufficient reasons, or if Surety revokes its Consent for Reduction in or Partial Release of Retainage.

1.04 REDUCTION IN RETAINAGE AFTER SUBSTANTIAL COMPLETION

- A. After Substantial Completion, and upon receipt of Applications for Payment accompanied by Consent of Surety to Reduction in or Partial Release of Retainage executed in triplicate on AIA Document G707A, 1994 or later Edition, and upon review and recommendation by the Architect/Engineer, the Owner will pay the Contractor, on account of the Contract, 95 percent of the value of labor and materials incorporated in the Work and 95 percent of the materials suitably stored in accord with Subparagraph 9.3.2 of the General Conditions, up to the fifteenth day of the preceding month.

1.05 FURTHER REDUCTION IN RETAINAGE

- A. The final 3 percent of the Contract Sum will not be paid until the Contractor has submitted to the Architect/Engineer, in triplicate, a written clearance from the Iowa Commissioner of Labor certifying that all payments then due of contributions to the fund or interest thereon, owing by reason of the performance of the Work under this Contract, have, in fact, been paid by the Contractor and his/her Subcontractors to the Unemployment Compensation Fund of the State of Iowa.

1.06 FINAL PAYMENT

- A. After Final Completion, and upon receipt of the Final Application of Payment submitted in triplicate on AIA Documents G702 and G703, 1992 Edition, accompanied by Consent of Surety Company to Final Payment and Contractor's Affidavit of Payment of Debts and Claims executed in duplicate on AIA Documents G707 and G706, 1994 or later Editions respectively, Contractor's Affidavit of Release of Liens executed in duplicate on AIA Document G706A latest edition, the Contractor's Release or Waiver of Liens from all subcontractors and suppliers and other items required in Section 01 78 00, and upon the review and recommendation of the Architect/Engineer, the Owner will pay the Contractor the entire balance of the Contract Sum.

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PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

BCDM Architects
1015 North 98th Street, Suite 300
Omaha, Nebraska 68114-2334

SUPPLEMENTAL OFF-SITE STORAGE AGREEMENT

PROJECT: _____

DATE: _____

The Undersigned understands and agrees that a portion of the payment made under Application and Certificate for Payment No. _____, to _____ (Contractor) for their work on _____ (Project) under Contract dated _____ represents payment for materials procured and to be furnished and installed under the terms of the contract and which are to be stored off the building site by contractor or sub-contractor until used in such construction work, such payment being made in advance of, rather than following, delivery of such materials to the building site as required by said construction contract, and under the following conditions:

1. Materials being paid for hereunder are to be plainly tagged or marked as Property of _____ (Project Owner).
2. Such materials shall be separately located and stored at jobsite and _____ (off-site location) and segregated in said place of storage, clearly marked the materials in this space as property of _____ (Project Owner).
3. Such materials shall be kept free from any liens or encumbrances by contractor or sub-contractor and shall be kept adequately insured against loss to _____ (Project Owner) by theft, fire or other casualty at the expense of the contractor or sub-contractor. Proof of Insurance is attached.
4. Such materials shall be stored as herein provided and moved to the building site as needed in the construction work without expense to _____ (Project Owner).
5. Material paid for and stored as herein provided are as follows:

Signed:

Contractor

Owner

Authorized Signature

Authorized Signature

Bonding Company for Contractor

BCDM Architects

Authorized Signature

Authorized Signature

**SECTION 01 30 00
ADMINISTRATIVE REQUIREMENTS**

PART 1 GENERAL

1.01 SUMMARY

- A. Section 01 29 00 - Progress and Payment
 - 1. Applications for Payment
 - 2. Supplemental Off-Site Storage Agreement
 - 3. Consent of Surety to Reduction in or Partial Release of Retainage
 - 4. Consent of Surety to Final Payment
 - 5. Contractor's Affidavit of Payment of Debts and Claims
 - 6. Certification of Unemployment Compensation Contributions
 - 7. Contractor's Affidavit of Release of Liens
 - 8. Release or Waiver of Liens from Subcontractors and Suppliers
- B. Section 01 40 00 - Quality Requirements
 - 1. Testing Reports
 - 2. Receipts from Testing Payments
- C. Section 01 78 00 - Closeout Submittals
 - 1. Inspection Certificates
 - 2. Certification of Unemployment Compensation Contributions
 - 3. Extra Stock
 - 4. Specified Product Warranties as listed in that Section
 - 5. Water System Disinfection Reports
 - 6. Operating and Maintenance Manuals
 - 7. Performance Test Reports
 - 8. Project Record Drawings

1.02 PROGRESS AND VALUE SCHEDULE

- A. Progress and Value Schedule shall be completed in duplicate on forms furnished by the Architect/Engineer at the Preconstruction Conference, and submitted prior to the first Application for Payment and shall reflect in detail all of the Work included under the Combined Contract.
- B. Value Schedule shall be broken out by individual specification section. A preliminary copy of this form shall be submitted to the Architect/Engineer to approve or modify the breakdown of line items before final copies are submitted.

1.03 LIST OF SUBCONTRACTORS AND MATERIAL SUPPLIERS

- A. List of Subcontractors and Material Suppliers shall be entered on the form furnished by the Architect/Engineer, and submitted in duplicate within 10 days after the Notice-to-Proceed or Award of the Project.

1.04 CERTIFICATE OF INSURANCE

- A. ACORD Insurance Certificate Form 25-S shall be submitted by the Contractor in duplicate before work is started on the site.

1.05 PERFORMANCE BOND AND PAYMENT BOND

- A. Performance Bond and Payment Bond each in the amount equal to 100 Percent of the Contract Price, shall be submitted in duplicate to the Architect/Engineer prior to issuance of a Notice-to-Proceed or execution of the Owner-Contractor Agreement (whichever occurs first). Such bonds shall be issued by a surety company acceptable to the Owner and properly licensed in the State of Iowa. Such bonds shall be issued on AIA Document A312, amended to conform with applicable state statutes.

1.06 AIA DOCUMENTS

- A. AIA Documents which are required for submittals in this or other sections of this Project Manual may be obtained from:
 - A.I.A. Nebraska
 - P.O. Box 80045
 - Lincoln, Nebraska 68501
 - (402) 472-1456
 - (800) 332-0265
- B. The Contractor at his/her option, may use electronic copies of the AIA documents by contacting the Client Contractor Billing Program, (1-888-272-4115).

1.07 SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

- A. Shop Drawings, Product Data and Samples shall be submitted as follows:
 - 1. **All shop drawings and product data submittals shall be submitted in electronic (PDF) format using an Online Submittal Service.** The Service shall be similar to Procure and is a website service designed specifically for transmitting submittals between construction team members. The General Contractor shall be responsible for establishing, contracting with, coordinating and utilizing the on-line construction submittal services.
 - 2. Shop drawings shall be numbered consecutively within each Division. Each shop drawing transmittal form shall list only items within the Division.
 - 3. All shop drawings and samples related to color choices and color issues shall be submitted at one time with all samples and colors submitted in triplicate.
 - 4. The distribution area in the center of the sheet shall be for the use of the Architect/Engineer only.
 - 5. The Contractor shall review, mark-up and stamp all shop drawings prior to submittal to the Architect. The Architect will use red ink for his markings; the Contractor shall use a color other than red.
 - 6. Changes from the Contract Documents on a shop drawing shall be listed in a letter of explanation accompanying the shop drawing.
 - 7. Separate submittals for Section 03 30 00 - Cast-in-Place Concrete, concrete mix design, shall be sent to the Structural Engineer. Concrete mix design submittals are to be divided into submittals solely for the building and submittals solely for the site. A submittal shall be sent to the Structural Engineer when the submittal addresses the building. A submittal shall be sent to the Civil Engineer when the submittal addresses the site.
 - 8. A copy of the following list shall be updated monthly and submitted with the Application for Payment.
 - 9. All shop drawing dimensions shall be in English units and metric units or English units only. Shop drawings with dimensions in metric units only will be rejected.

1.08 SUCCESSFUL CONTRACTOR/SUPPLIER

- A. The successful contractor/supplier may, at their option, obtain electronic drawing files for architectural drawings (A Series Drawings) for use in preparation of shop drawings. This information is available from BCDM upon written request. A non-refundable one time charge of \$150 per request plus \$20 per drawing file requested (plus shipping and handling if required) will be required at the time of receipt of electronic files. The use of these drawing files is intended solely for the preparation of drawings as required by these Contract Documents. All other uses are strictly prohibited by Copyright law. The user of these electronic drawing files assumes full responsibility for their accuracy and scale.

1.09 SHOP DRAWINGS, PRODUCT DATA AND RELATED SAMPLES

- A. Shop drawings, product data and related samples shall be submitted as noted within each specification section.

1.10 CERTIFICATES

- A. Miscellaneous Certifications shall be submitted in duplicate for all items so noted in individual Specification Sections.
- B. Asbestos Certification. Submit 2 copies of the certification regarding use of asbestos-free products as required by the Supplementary Conditions.
- C. Silicone Building Sealant Certification. Submit 2 copies of certificates indicating products have been pretested to comply with performance requirements indicated in Section 07 92 00.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

**SECTION 01 31 00
PROJECT MEETINGS**

PART 1 GENERAL

1.01 PRE-BID CONFERENCE

- A. There will be a Pre-Bid Conference held at Lewis Central High School at 3:00 p.m. local time on March 18, 2026. Attendance of this Pre-Bid Conference is **suggested** for all General Contractors. Other subcontractors are highly encouraged to attend this Pre-Bid Conference. Additional times may be made available by appointment. To make an appointment, contact Brett Wallace, Project Advocates at (712) 355-8261 or Brett@project-advocates.com.

1.02 PRECONSTRUCTION CONFERENCE

- A. The Prime (General) Contractor and the Mechanical and Electrical Subcontractors shall attend a preconstruction conference at a time and location to be determined to discuss and clarify Contract Administration procedures. Representatives of the Owner and the Architect/Engineer will also attend.

1.03 PROGRESS MEETINGS

- A. The Prime (General) Contractor shall convene and conduct progress meetings during normal working hours at the construction site as required by the Architect/Engineer to discuss the progress of construction and properly coordinate respective responsibilities and schedules. The time, date, and location of these meetings shall be set by agreement of those involved. The Mechanical and Electrical Subcontractors shall also attend these meetings. A representative of the Owner and the Architect/Engineer will also attend these meetings when required to coordinate schedules and working relationships with the Contractor.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

**SECTION 01 40 00
QUALITY REQUIREMENTS**

PART 1 GENERAL

1.01 TESTING AGENCY

- A. Testing Agency for all soils testing including all overexcavation, recompaction, fill, building backfill, and miscellaneous backfill for mechanical and electrical items, and for all concrete testing, steel testing, special inspections and all other inspections hereinafter specified shall be Thiele Geotech, Inc. Phone 402-556-2171.

1.02 NOTIFICATION OF TESTING AGENCY

- A. Notification of Testing Agency that materials are ready for sampling, observation and testing shall be made by the Contractor. Such notification shall be made at least one day in advance.

1.03 SAMPLING

- A. Sampling shall be made by the Testing Agency's authorized representatives. The location from which the sample was taken shall be noted on the Test Report.

1.04 REPORTS SHALL BE DISTRIBUTED BY THE TESTING AGENCY AS FOLLOWS:

- | | |
|--|----------|
| A. Architect/Engineer | one copy |
| B. General Contractor | one copy |
| C. Owner | one copy |
| D. Concrete Producer (concrete tests only) | one copy |
| E. Steel Fabricator (steel tests only) | one copy |

1.05 PAYMENT

- A. Payments shall be made for testing and special inspections by the Owner. The Contractor shall forward all receipts for payment to the Owner for payment and notify the Architect of all testing and special inspections.

1.06 THE CONTRACTOR

- A. The Contractor shall be responsible for maintaining close communication with the Testing Agency, particularly during the overexcavation/filling/recompaction phases for the building addition in order to assure that they are notified as to the schedule when such work is or is not going to take place. If the Contractor persistently fails to notify the Testing Agency when that work is not going to take place due to weather or other reasons, the costs of the unnecessary trips to the site by the Testing Agency shall be paid by the General Contractor from his/her own funds.

1.07 RETESTING

- A. Retesting and re-inspection of inspections due to failure shall be paid by the Contractor.

1.08 PATCHING

- A. Patching, if required by the taking of samples, shall be made by the Contractor.

1.09 TESTS ARE SPECIFIED IN THE FOLLOWING SECTIONS:

- A. 03 30 00 - Cast-in-Place Concrete
B. 05 12 00 - Structural Steel Framing

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

**SECTION 01 50 00
TEMPORARY FACILITIES AND CONTROLS**

PART 1 GENERAL

1.01 WATER

- A. All water required for construction activities will be furnished by the Prime (General) Contractor as may be needed for the entire prosecution of the Work. The cost of the water used will be paid by the Prime (General) Contractor. The Contractor shall be responsible for furnishing all hoses and piping necessary to extend the water services to the construction areas, and shall be responsible for returning existing water sources to their original condition at completion of the project.

1.02 TEMPORARY POWER AND LIGHTING

- A. Temporary power will be provided throughout the construction period by the Prime (General) Contractor for use by all trades, Contractors, and Subcontractors for the following purposes:
 - 1. Operation of miscellaneous power tools and equipment
 - 2. Temporary lighting
 - 3. Power and lighting in temporary construction site office and storage buildings (if any).
 - 4. Testing and checking equipment
 - 5. Welding units
 - 6. Night security lighting
 - 7. Other general construction power needs
- B. All power sources, load centers, distribution boxes, circuit breakers, and other materials, including the methods of installing them, will be as required for safe working conditions and as required by applicable Codes and Ordinances.
- C. Where possible, at areas of the existing building in which construction work will take place, temporary lighting will be provided during the construction period by the Owner via the existing lighting for use by all trades, Contractors and Subcontractors up until such time where existing lighting which is to be removed is no longer operational. The Prime Contractor shall be responsible for adding whatever additional temporary lighting (over and above that provided by the existing building lighting) might be required for proper execution of the work. See list of required footcandle levels below. In areas where existing ceiling and lighting will be removed, the Prime (General) Contractor shall provide temporary lighting as specified below.
- D. At all new building areas, temporary lighting shall be provided during the construction period by the Prime (General) Contractor for use by all trades, Contractors, and Subcontractors for safe and adequate working conditions throughout the building, and shall provide minimum illumination measured in foot candles (FC) at the floor line as follows:

1. General area and walkway lighting	5 FC
2. Mechanical and electrical rooms	20 FC
3. General, electrical and mechanical rough work areas	10 FC
4. Concrete, masonry and finish work areas	20 FC
- E. Cost of electrical energy used during construction at all areas will be paid by the Owner. The Contractor shall make every effort to conserve the use of electrical energy and minimize those costs to the Owner.

1.03 SANITARY CONVENIENCES

- A. Sanitary conveniences for use by all persons employed on the Work shall be provided and maintained by the Prime (General) Contractor.
 - 1. New and existing building toilets, sinks, and other plumbing fixtures may not be used by Construction Personnel.

1.04 SECURITY AND WEATHER PROTECTION.

- A. The Prime (General) Contractor shall be responsible for proper security for the building at all times. He/she shall also schedule his/her work and provide temporary facilities and materials as

required to assure continuous proper weather protection of all spaces for the duration of the construction process.

- B. This requirement will be strictly enforced in order to minimize the potential for damage to the nearly completed Project and resulting time delays.

1.05 DUSTPROOF ENCLOSURES

- A. When demolishing and remodeling portions of the existing building, the Prime Contractor shall provide temporary dustproof partitions at all openings where dust producing work will be accomplished in order to protect the existing building areas scheduled to remain from dust and dirt. Temporary partitions shall consist of a minimum of wood or metal studs with untaped 1/2-inch gypsum wallboard on the public side (both sides if they are both exposed to the public). Where required by the applicable Code Authorities, at temporary partitions shall be 5/8-inch fire-taped, fire-rated GWB on both sides of wood or metal studs. The Contractor shall also erect temporary walls where excessively noisy activities would severely hamper adjacent occupied room functions.

1.06 MAINTENANCE OF EXITS

- A. During renovations of the existing building, the Prime Contractor shall maintain means of egress, free and unobstructed from the existing exits as required by the City of Council Bluffs Building Inspector, State Fire Marshal, and other responsible authorities.

1.07 BARRICADES, FENCES, AND PROTECTION

- A. The Prime (General) Contractor shall erect temporary barricades, fences and other protective items as necessary to provide for the general safety of the public during the construction of this project. As a minimum, 4-foot high sound snow fencing with posts at 10-foot centers shall be provided. These minimum requirements may be exceeded by the Contractor at his/her option since he/she is responsible for safety at the project site. Where the existing fencing is removed to provide temporary access to the site, it shall be reinstalled or replaced to match existing conditions at the end of the construction day.

1.08 OFFICES AND STORAGE FACILITIES FOR THE CONTRACTORS AND SUBCONTRACTORS

- A. The Prime (General) Contractor shall maintain on the site as necessary for the proper conduct of the Work offices and storage facilities for the Contractor and Subcontractors. After consulting with the Architect/Engineer, these shall be located on the site so that they cause no interference to Work performed on the site under this Contract or by others or to traffic on adjoining streets. Material and equipment may not be stored on parking and drive areas without permission of the Owner, and such items may not be stored on public streets without permission of the City of Council Bluffs.
- B. Removal of temporary offices and storage facilities. Upon completion of the project, or as directed by the Architect/Engineer, remove the temporary offices and storage facilities, and leave the premises in the condition required by the Contract. All areas affected by the construction shall be finely graded to the profile shown on the Drawings (or to their original profile at areas where the existing contours are shown to be unchanged) in preparation for installation of sod or seed by the Owner. The Contractor shall make every effort to restrict his/her construction activities to the areas shown to receive grade changes and enclosed by the construction fence.

1.09 PARKING

- A. Parking for construction personnel may take place on the existing parking lot areas as directed. Details related to on-site parking to be coordinated with the Owner once a contract has been awarded. Parking on public streets must be coordinated and approved by the City of Council Bluffs. Permitted parking on public streets shall not cause inconvenience and disturbance to neighbors and traffic near the site.

1.10 CLEAN UP

- A. The Prime (General) Contractor shall maintain all site areas involved in the Work of this Contract in a clean condition throughout the construction period. The Contractor shall also

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clean adjoining streets soiled by removal activities as may be required by the governing authorities. In addition, all paving areas shall be cleaned of all dirt, dust, debris and snow at time of Substantial Completion.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

**SECTION 01 60 00
PRODUCT REQUIREMENTS**

PART 1 GENERAL

1.01 MATERIALS AND EQUIPMENT

- A. Material and equipment shall be of the manufacturer, model, and type specified. Substitute materials and equipment approved prior to bidding, in accord with the Instructions to Bidders, are incorporated into this Project Manual as Addenda.

1.02 MATERIALS AND EQUIPMENT OF ACCEPTABLE MANUFACTURER

- A. An item of material or equipment may be used in place of an item which is specified by manufacturer and model number and type by conforming to all of the following provisions:
 - 1. The item is manufactured by one of the acceptable manufacturers listed in the Project Manual, Drawings, or Addenda.
 - 2. The item of material or equipment meets or exceeds the minimum qualities established by the specified item.
 - 3. The item is used throughout the project so that all items of material or equipment used in place of specified items are of the same make and type.
 - 4. The entire cost of all modifications which result from the use of items in place of specified items shall be borne by the Contractor who uses such items, at no additional cost to other Contractors or to the Owner.
- B. The Architect/Engineer has detailed and specified around a specific manufactured product for certain items. Although additional manufacturers are specified in Contract Documents, it is the Contractor's responsibility to coordinate the requirements of the product selected with all building components.

1.03 REPEATED FEATURES AND MATERIALS

- A. Repeated features and materials must be constructed alike, although detailed or indicated only once. Detail and ornament must continue throughout all moldings, bands, etc. Where items, devices and equipment are specified singular in number, the Specification shall apply to as many items, devices and pieces of equipment as are shown on the Drawings or required to complete the installation. Repeated items of equipment and materials shall be of the same manufacturer, model number and type.

1.04 WHEN BULKY MATERIALS AND EQUIPMENT ARE FURNISHED BY OTHERS

- A. The Prime (General) Contractor shall, upon receipt of notice in ample time, leave proper openings to permit the installation and properly close such openings afterwards.

1.05 WHEN EQUIPMENT IS FURNISHED BY OTHERS

- A. The Contractor shall use the manufacturer's detail drawings to establish roughing in dimensions and location of services. In case of conflict, the equipment detail drawings and dimensions shall be used, except where aesthetic or structural considerations make an adjustment necessary.

1.06 DISCREPANCIES

- A. In the event of discrepancies within the Drawings, within the Project Manual or between the Drawings and Project Manual, the discrepancies shall be brought to the attention of the Architect/Engineer immediately before proceeding with the affected work. The Architect/Engineer will make a written interpretation.
- B. If the Contractor fails to notify the Architect/Engineer of discrepancies and proceeds with the Work where discrepancies occur, such Work shall be considered done at the Contractor's risk. No excuse will thereafter be entertained for failure to carry out Work in a manner satisfactory to the Architect/Engineer.

1.07 STANDARDS

- A. Materials and processes for which standards have been adopted by ASTM, or other industry recognized organizations, shall conform to those standards. Methods shall be those recommended by the manufacturer of the material involved.

1.08 MEASUREMENTS

- A. Before ordering material and doing work, the Contractor shall verify measurements at the building and the site and be responsible for same. Extra compensation will not be allowed for differences between actual dimensions and measurements indicated on the Drawings. The Contractor shall submit differences to the Architect/Engineer.

1.09 CHASES, OPENINGS, INSERTS, ETC

- A. The General Contractor shall build into all new construction necessary chases, slots and openings required for his/her own or other contractor's work as shown on the Drawings or requested by other contractor's for their work. He/she shall cooperate with other contractors in the proper installation of sleeves, inserts, etc., furnished by the contractor or subcontractor concerned unless otherwise shown or specified.

1.10 CUTTING AND PATCHING

- A. Cutting, fitting and patching necessary to fit the several parts of this or other contractor's work together, or cutting, fitting, and patching of existing construction and new work in place shall be the expense of the contractor concerned. Each contractor shall determine and be responsible for proper location and character of all inserts, holes, chases, and other openings in new and existing construction, and give the other interested contractors proper notification with regard to same.
- B. Cutting, fitting, repairing, patching, etc., required whether it be in existing construction, new work in place or executing the initial installation, must be done by craftsmen skilled in their respective trades. Repair cut surfaces to match adjacent surfaces.

1.11 SUBSTITUTIONS

- A. Mill tests, chemical analysis, manufacturer's specifications, and such other information as is available shall be submitted as proof of quality when presenting substitute materials for Owner's approval. If the Contractor proposes the construction method other than that shown or specified, complete drawings and engineering notes shall accompany the request. The Contractor shall reimburse the Architect for architectural and engineering service furnished, time required for checking the proposed change, and drafting time required for preparing as built drawings made necessary by substitutions.

1.12 STABILITY

- A. Members shall be rigid and securely anchored. Members subject to vibration or racking shall be attached with through bolts or cinch bolts. Connections shall be adequate to withstand all strains to which they normally would be subjected.

1.13 TRUENESS

- A. Surfaces and joints of all materials fabricated on or off the site into a single article or composition, or into an assembly of units, shall be uniform, true, plumb, level, properly curved or pitched as required and free from defects and blemishes.

1.14 COORDINATION

- A. The Contractor shall coordinate his/her work with that of the other contractors and shall cooperate with them to the fullest extent. He/she shall order all materials promptly so that they will be available when needed and not delay the installation of items by other contractors.

1.15 THE PRIME (GENERAL) CONTRACTOR

- A. The Prime (General) Contractor shall give ample notice of his/her and other contractor's intended operations including current progress schedules, directing their activities on the job to assure orderly procedures with the interests of the Owner's obligations to the public in mind.

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PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

**SECTION 01 78 00
CLOSEOUT SUBMITTALS**

PART 1 GENERAL

1.01 CLEANING

- A. When the project is completed, the General Contractor shall clean all site and building areas affected by this work, removing all rubbish and excess materials, no matter by whom it is left. Dust accumulations shall be totally removed from all interior surfaces. See General Conditions and individual Specification Sections for further clean-up requirements.

1.02 SUBMITTALS

- A. The following submittals shall accompany the Contractor's final Application for Payment. Submittals shall be submitted in duplicate unless otherwise specified in the Sections indicated.
1. 01 29 00 Contractor's Affidavit of Payment of Debts and Claims
 2. 01 29 00 Certification of Unemployment Compensation Contributions
 3. 01 29 00 Contractor's Affidavit of Release of Liens (AIA Document G706A, latest edition)
 4. 01 29 00 Individual Releases of Waivers of Liens from Subcontractors and Suppliers
 5. 01 29 00 Consent of Surety of Final Payment (AIA Document G707, latest edition)
 6. 07 92 00 Silicone Joint Sealer Warranty
 7. Divisions 21 thru 28 Various Mechanical and Electrical Warranties as noted

1.03 INSPECTION CERTIFICATES

- A. Inspection certificates issued by regulatory agencies shall be submitted to the Architect/Engineer before final payment.

1.04 TESTING REPORTS

- A. Testing reports shall be submitted to the Architect/Engineer before final payment, and shall include the following:
1. Performance Tests
 2. Air Balancing Reports

1.05 COORDINATE

- A. Coordinate with requirements of Commissioning as outlined in various sections throughout the project manual.

1.06 RECEIPTS FOR TESTING COSTS

- A. Receipt for testing costs as specified in Section 01 40 00, Quality Control Services, shall be submitted to the Architect/Engineer before final payment.

1.07 PROJECT RECORD DRAWINGS

- A. Project Record Drawings shall be delivered to the Architect/Engineer before final payment in accordance with the General Conditions of the Contract. Record drawings shall be a copy of the Contract Drawings, properly marked to reflect changes made during construction, and with undamaged edges.
- B. These drawings shall be the Contractor's separate field set on which he/she has accurately marked changes that were made during construction.

1.08 OPERATION AND MAINTENANCE MANUALS AND REPAIR KITS

- A. Operation and Maintenance Manuals and Repair kits shall be submitted to the Architect/Engineer in duplicate before final payment or earlier when specified. Data to be included is as follows:
1. Electrical Operating and Maintenance Data, Parts Lists, Lubrication Schedules, Diagrams and Accessory Schedules

- B. Operation and Maintenance Manuals shall be bound in plastic or vinyl-covered 3-ring binders (Submit one copy). The binders shall be large enough to accommodate all materials and shall be marked with tabs to identify the contents. In addition to the hard copies Operation and Maintenance Manuals shall also be submitted in PDF form by approved external storage media or digital file transfer.

1.09 INSTRUCTIONS FOR THE OWNER

- A. On completion of the project, the Contractor shall demonstrate the proper operation and maintenance procedures for all mechanical, electrical and operating general construction items prior to final acceptance by the Owner. Such demonstration sessions shall be video-recorded by the Contractor at his/her expense. One copy of each video-recording shall be in DVD format, and turned over to the Owner.

1.10 EXTRA STOCK

- A. Extra Stock shall be delivered to the Owner before final payment, and shall include the following:
 - 1. Paint
 - 2. Electrical Items as may be noted in Divisions 22 thru 28 and on the Drawings

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

DIVISION 02 – EXISTING CONDITIONS

**SECTION 02 41 00
DEMOLITION**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Selective demolition of building elements for alteration purposes.

1.02 RELATED REQUIREMENTS

- A. Section 01 10 00 - Summary: Limitations on Contractor's use of site and premises.
- B. Section 01 10 00 - Summary: Description of items to be salvaged or removed for re-use by Contractor.
- C. Section 01 50 00 - Temporary Facilities and Controls: Site fences, security, protective barriers, and waste removal.
- D. Section 01 60 00 - Product Requirements: Handling and storage of items removed for salvage and relocation.
- E. Section 01 78 00 - Closeout Submittals: Project conditions; protection of bench marks, survey control points, and existing construction to remain; reinstallation of removed products; temporary bracing and shoring.

1.03 REFERENCE STANDARDS

- A. NFPA 241 - Standard for Safeguarding Construction, Alteration, and Demolition Operations; 2022, with Errata (2021).

1.04 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements for submittal procedures.
- B. Project Record Documents: Accurately record actual locations of capped and active utilities and subsurface construction.

1.05 QUALITY ASSURANCE

- A. Pre-Demolition Conference:
 - 1. Once the ceilings have been removed, prior to any demolition related to any walls and/or structural items, the General Contractor shall hold a Pre-Demolition Conference with the General Contractor, Demolition Sub-Contractor, Architect, Structural Engineer and Owner to review limits of demolition and the Contractor's proposed means and methods to perform the work.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Not Used.

PART 3 EXECUTION

3.01 DEMOLITION

- A. Refer to Drawings for scope of demolition.
- B. Remove other items indicated, for salvage, relocation, and recycling.

3.02 GENERAL PROCEDURES AND PROJECT CONDITIONS

- A. The Contractor shall thoroughly review the site, the building, and the Bidding Documents before submittal of bids in order to determine the scope of the demolition involved.
- B. 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.

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3. 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.
 4. Provide, erect, and maintain temporary barriers and security devices.
 5. Use physical barriers to prevent access to areas that could be hazardous to workers or the public.
 6. Conduct operations to minimize effects on and interference with adjacent structures and occupants.
 7. Do not close or obstruct roadways or sidewalks without permits from authority having jurisdiction.
 8. 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.
 9. Obtain written permission from owners of adjacent properties when demolition equipment will traverse, infringe upon, or limit access to their property.
- C. Do not begin removal until receipt of notification to proceed from Owner.
- D. Do not begin removal until built elements to be salvaged or relocated have been removed.
- E. Do not begin removal until vegetation to be relocated has been removed and vegetation to remain has been protected from damage.
- F. 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.
- G. Minimize production of dust due to demolition operations. Do not use water if that will result in ice, flooding, sedimentation of public waterways or storm sewers, or other pollution.
- H. 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.
 2. If the Contractor discovers material which he/she suspects may contain asbestos, he/she shall immediately notify the Owner and cease work in close proximity to the suspected asbestos containing material. The Owner will then arrange for the testing and removal of the asbestos material. If time delays are encountered because of required asbestos removal work, the schedule shall be adjusted accordingly by Change Order.
- I. Remove building materials regardless of how they are constructed. Components shall be removed as follows:
1. Demolish masonry walls in small sections.
 2. Remove structural steel, etc. by individual pieces and lower carefully.
 3. Completely remove floor slabs, pavement and walks regardless of depth below the surface. Under new paving and walk areas, abandoned utilities shall be removed to a depth of at least 3-feet below finished grade.
 4. Remove materials where shown or required.
 5. Remove area of walks, drives, curbs, rubbish, junk, and miscellaneous items.
 6. Locate demolition equipment throughout the structure and remove materials so as to not impose excessive loads to supporting walls, floors and framing.
- J. The Contractor shall be responsible for providing all necessary temporary shoring and supports as required during removal of existing walls, floors, and other structural items and until final structural replacement items are in place. He/she shall be responsible for damage to existing facilities which are scheduled to remain caused by his/her demolition operations. The Architect/Engineer will not be responsible for problems/accidents which occur because of the Contractor's failure to thoroughly inspect the structure and review the drawings of the existing building before removing such items. A copy of the Owner's drawings of the existing building

will be made available for review at the Owner's office prior to receipt of bids and during construction of the project. These drawings may be helpful to the Contractor in determining the sequence or methods of removal for certain items. The Contractor shall be responsible for verifying the accuracy of such existing drawings before making decisions regarding demolition based upon them.

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.
- H. Prepare building demolition areas by disconnecting and capping utilities outside the demolition zone. Identify and mark, in same manner as other utilities to remain, utilities to be reconnected.

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. Separate areas in which demolition is being conducted from areas that remain occupied.
 - 1. Provide, erect, and maintain temporary 1-hour fire-rated partitions to separate areas of the building under construction from areas occupied by the Owner. Coordinate the locations of these walls with the local Authority having Jurisdiction to meet egress requirements.
- C. Maintain weatherproof exterior building enclosure, except for interruptions required for replacement or modifications; prevent water and humidity damage.
- D. Remove existing work as indicated and required to accomplish new work.
 - 1. Remove items indicated on drawings.
 - 2. The following items shall be carefully removed by the Contractor and delivered to the Owner at a location designated by the Owner:
 - a. Other items as may be noted on the Drawings.
 - 3. Items to be removed and reinstalled by the Contractor shall be as follows:
 - a. Wrestling Pads.
 - b. Floor Pads.
 - c. Televisions.
 - d. Other items so noted on the Drawings.
- E. 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.

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2. 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.
- F. 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. Materials shall not be stored on the site for sale, nor shall the Contractor conduct any sale on the site. The Owner reserves the right to remove any materials scheduled for demolition prior to the scheduled time of removal and to retain such materials as their property.
- C. Leave site in clean condition, ready for subsequent work.
- D. Clean up spillage and wind-blown debris from public and private lands.

END OF SECTION

DIVISION 03 – CONCRETE

**SECTION 03 30 00
CAST-IN-PLACE CONCRETE**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Floors and slabs on grade.
- B. Concrete Foundations.
- C. Concrete reinforcement.
- D. Joint devices associated with concrete work.
- E. Concrete curing.

1.02 RELATED REQUIREMENTS

- A. Section 03 35 00 - Concrete Floor Finishes: Densifiers, hardeners, applied coatings, and polishing.

1.03 REFERENCE STANDARDS

- A. ACI CODE-318 - Building Code Requirements for Structural Concrete and Commentary; 2019 (Reapproved 2022).
- B. ACI PRC-211.1 - Selecting Proportions for Normal-Density and High Density-Concrete - Guide; 2022.
- C. ACI PRC-302.1 - Guide to Concrete Floor and Slab Construction; 2015.
- D. ACI PRC-304 - Guide for Measuring, Mixing, Transporting, and Placing Concrete; 2000 (Reapproved 2009).
- E. ACI PRC-305 - Guide to Hot Weather Concreting; 2020.
- F. ACI PRC-306 - Guide to Cold Weather Concreting; 2016.
- G. ACI PRC-308 - Guide to External Curing of Concrete; 2016.
- H. ACI PRC-347 - Guide to Formwork for Concrete; 2014 (Reapproved 2021).
- I. ACI SPEC-301 - Specifications for Concrete Construction; 2020.
- J. ASTM A615/A615M - Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement; 2024.
- K. ASTM A775/A775M - Standard Specification for Epoxy-Coated Steel Reinforcing Bars; 2022.
- L. ASTM A1064/A1064M - Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete; 2024.
- M. ASTM C33/C33M - Standard Specification for Concrete Aggregates; 2024a.
- N. ASTM C39/C39M - Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens; 2024.
- O. ASTM C94/C94M - Standard Specification for Ready-Mixed Concrete; 2025.
- P. ASTM C143/C143M - Standard Test Method for Slump of Hydraulic-Cement Concrete; 2020.
- Q. ASTM C150/C150M - Standard Specification for Portland Cement; 2024.
- R. ASTM C173/C173M - Standard Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method; 2024a.
- S. ASTM C260/C260M - Standard Specification for Air-Entraining Admixtures for Concrete; 2024.
- T. ASTM C309 - Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete; 2019.
- U. ASTM C494/C494M - Standard Specification for Chemical Admixtures for Concrete; 2024.
- V. ASTM C595/C595M - Standard Specification for Blended Hydraulic Cements; 2021.

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- W. ASTM C618 - Standard Specification for Coal Ash and Raw or Calcined Natural Pozzolan for Use in Concrete; 2025a.
- X. ASTM C881/C881M - Standard Specification for Epoxy-Resin-Base Bonding Systems for Concrete; 2020a.
- Y. ASTM C1059/C1059M - Standard Specification for Latex Agents for Bonding Fresh to Hardened Concrete; 2024.
- Z. ASTM C1202 - Standard Test Method for Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration; 2019.
- AA. ASTM C1315 - Standard Specification for Liquid Membrane-Forming Compounds Having Special Properties for Curing and Sealing Concrete; 2019.
- BB. ASTM C1602/C1602M - Standard Specification for Mixing Water Used in the Production of Hydraulic Cement Concrete; 2022.
- CC. ASTM E96/E96M - Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials; 2024a.
- DD. ASTM E154/E154M - Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs, on Walls, or as Ground Cover; 2008a (Reapproved 2025).
- EE. ASTM E1155/E1155M - Standard Test Method for Determining FF Floor Flatness and FL Floor Levelness Numbers; 2023.
- FF. ASTM E1643 - Standard Practice for Selection, Design, Installation, and Inspection of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs; 2024.
- GG. ASTM E1745 - Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs; 2017 (Reapproved 2023).
- HH. ICRI 310.2R - Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair; 2013.

1.04 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements for submittal procedures.
- B. Product Data: Submit manufacturers' data on manufactured products showing compliance with specified requirements and installation instructions.
 - 1. For curing compounds, provide data on method of removal in the event of incompatibility with floor covering adhesives.
 - 2. For membrane-forming, moisture emission-reducing, curing and sealing compound, provide manufacturer's installation instructions,.
- C. Mix Design: Submit proposed concrete mix design.
 - 1. Indicate proposed mix design complies with requirements of ACI SPEC-301, Section 4 - Concrete Mixtures.
 - 2. Indicate proposed mix design complies with requirements of ACI CODE-318, Chapter 5 - Concrete Quality, Mixing and Placing.
 - 3. Indicate proposed mix design complies with admixture manufacturer's written recommendations.
- D. Samples: Submit samples of underslab vapor retarder to be used.
- E. Test Reports: Submit report for each test or series of tests specified.

1.05 QUALITY ASSURANCE

- A. Perform work of this section in accordance with ACI SPEC-301 and ACI CODE-318.
 - 1. Maintain one copy of each document on site.
- B. Follow recommendations of ACI PRC-305 when concreting during hot weather.
- C. Follow recommendations of ACI PRC-306 when concreting during cold weather.

1.06 WARRANTY

- A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.
- B. Moisture Emission-Reducing Curing and Sealing Compound, Membrane-Forming: Provide warranty to cover cost of flooring delamination failures for 10 years.
 - 1. Include cost of repair or removal of failed flooring, remediation with a moisture vapor impermeable surface coating, and replacement of flooring with comparable flooring system.
- C. Moisture Emission-Reducing Curing and Sealing Compound, Penetrating: Provide non-prorated warranty to cover cost of flooring delamination failures for 20 years.
 - 1. Include cost of repair or removal of failed flooring, remediation with a moisture vapor impermeable surface coating, and replacement of flooring with comparable flooring system.

PART 2 PRODUCTS

2.01 REINFORCEMENT MATERIALS

- A. Reinforcing Steel: ASTM A615/A615M, Grade 60 (60,000 psi).
 - 1. Type: Deformed billet-steel bars.
 - 2. Finish: Unfinished, unless otherwise indicated.
- B. Steel Welded Wire Reinforcement (WWR): Plain type, ASTM A1064/A1064M.
 - 1. Form: Flat Sheets.
 - 2. WWR Style: As indicated on drawings.
- C. Reinforcement Accessories:
 - 1. Tie Wire: Annealed, minimum 16 gauge, 0.0508 inch.
 - 2. Chairs, Bolsters, Bar Supports, Spacers: Sized and shaped for adequate support of reinforcement during concrete placement.
 - 3. Provide stainless steel, galvanized, plastic, or plastic coated steel components for placement within 1-1/2 inches of weathering surfaces.

2.02 CONCRETE MATERIALS

- A. Cement: ASTM C150/C150M, Type II - Moderate Portland type.
- B. Blended Hydraulic Cement: ASTM C595/C595M, Type IL(10).
- C. Fine and Coarse Aggregates: ASTM C33/C33M.
 - 1. Acquire aggregates for entire project from same source.
- D. Fly Ash: ASTM C618, Class C or F.
- E. Water: ASTM C1602/C1602M; clean, potable, and not detrimental to concrete.

2.03 ADMIXTURES

- A. Do not use chemicals that will result in soluble chloride ions in excess of 0.1 percent by weight of cement.
- B. Air Entrainment Admixture: ASTM C260/C260M.
- C. High Range Water Reducing Admixture: ASTM C494/C494M Type F.

2.04 ACCESSORY MATERIALS

- A. Underslab Vapor Retarder:
 - 1. Sheet Material: ASTM E1745, Class A; stated by manufacturer as suitable for installation in contact with soil or granular fill under concrete slabs. Single-ply polyethylene is prohibited.
 - 2. Accessory Products: Vapor retarder manufacturer's recommended tape, adhesive, mastic, prefabricated boots, etc., for sealing seams and penetrations.
 - 3. Products:
 - a. ISI Building Products; Viper VaporCheck II 15-mil (Class A): www.isibp.com/#sle.

- b. Stego Industries, LLC; 15 Mil: www.stegoindustries.com/#sle.
- c. W. R. Meadows, Inc; PERMINATOR Class A - 15 mils (0.38 mm):
www.wrmeadows.com/#sle.
- d. Substitutions: See Section 01 60 00 - Product Requirements.

2.05 BONDING AND JOINTING PRODUCTS

- A. Latex Bonding Agent: Non-redispersable acrylic latex, complying with ASTM C1059/C1059M, Type II.
- B. Epoxy Bonding System:
 1. Complying with ASTM C881/C881M and of Type required for specific application.

2.06 CURING MATERIALS

- A. Curing Compound, Naturally Dissipating: Clear, water-based, liquid membrane-forming compound; complying with ASTM C309.
 1. Application: Use at Where floor finish does not allow for a sealant.
 2. Product dissipates within 4 to 6 weeks.
 3. Provide product containing fugitive red dye.
 4. Products:
 - a. Dayton Superior Corporation: www.daytonsuperior.com/#sle.
 - b. Euclid Chemical Company; COLOR-CRETE CURE AND SEAL VOC:
www.euclidchemical.com/#sle.
 - c. Kaufman Products Inc; Thinfilm 420 Resin Base: www.kaufmanproducts.net/#sle.
 - d. Mapei Corporation; Mapecure DR: www.mapei.com/#sle.
 - e. Sinak Corporation; Cure3D: www.sinak.com/#sle.
 - f. US Spec, an Oldcastle APG brand; Maxcure Wax White: www.usspec.com/#sle.
 - g. W. R. Meadows, Inc; 1100: www.wrmeadows.com/#sle.
 - h. Substitutions: See Section 01 60 00 - Product Requirements.
- B. Curing and Sealing Compound, Moisture Emission-Reducing, Membrane-Forming: Clear, liquid sealer for application to newly-placed concrete; capable of providing adequate bond for flooring adhesives, initially and over the long term; with sufficient moisture vapor impermeability to prevent deterioration of flooring adhesives due to moisture emission.
 1. Use this product to cure and seal all slabs to receive adhesively applied flooring or roofing, unless not compatible with flooring.
 2. Comply with ASTM C309 and ASTM C1315 Type I Class A.
 3. VOC Content: Less than 100 g/L.
- C. Curing and Sealing Compound, Moisture Emission-Reducing, Penetrating: Clear, water-based, non-film-forming curing agent; capable of providing adequate bond for flooring adhesives, initially and over the long term; with sufficient moisture vapor impermeability to prevent deterioration of flooring adhesives due to moisture emission, moisture vapor emission, and alkalinity.
 1. Use this product to cure and seal all slabs to receive adhesively applied flooring or roofing.
 2. Compressive Strength of Treated Concrete: Equal to or greater than strength after 28-day water cure when tested according to ASTM C39/C39M.
 3. Chloride Ion Resistance of Treated Concrete: Equal to or greater than strength after 28-day water cure when tested according to ASTM C1202.
 4. Comply with ASTM C309 and ASTM C1315 Type I Class A.
- D. Curing and Densifying Compound, Membrane-Forming: Lithium polysilicate-based, clear, liquid densifier for application to newly-placed concrete.
 1. Comply with ASTM C309.
 2. VOC Content: 0 g/L.
 3. Solids Content: 12 percent, minimum.
 4. Products:

- a. Sika Corporation; Sikafloor-956 LD; www.usa.sika.com WR Meadows, Inc; Silcrete; www.wrmeadows.com
- b. WR Meadows, Inc; Silcrete; www.wrmeadows.com

2.07 CONCRETE MIX DESIGN

- A. Proportioning Normal Weight Concrete: Comply with ACI PRC-211.1 recommendations.
- B. Concrete Strength: Establish required average strength for each type of concrete on the basis of field experience or trial mixtures, as specified in ACI SPEC-301.
 1. For trial mixtures method, employ independent testing agency acceptable to Architect for preparing and reporting proposed mix designs.
- C. Admixtures: Add acceptable admixtures as recommended in ACI PRC-211.1 and at rates recommended or required by manufacturer.
- D. Normal Weight Concrete:
 1. Fly Ash Content:
 - a. Foundations: Maximum 30 percent of cementitious materials by weight.
 - b. Slabs: Maximum 15 percent of cementitious materials by weight. Concrete finisher shall provide written approval that fly ash content will provide surface finish of acceptable quality.
 2. Water-Cement Ratio: Maximum As Indicated percent by weight.
 3. Total Air Content: Air entrain all concrete except slabs, or unless otherwise noted. Total air content to be 5 to 7 percent, determined in accordance with ASTM C173/C173M.
 4. Maximum Aggregate Size: 3/4 inch.

2.08 MIXING

- A. Transit Mixers: Comply with ASTM C94/C94M.
- B. Addition of Water on Site: Water may be added to the concrete on site for adjustment of slump only to the limit of the specified water/cement ratio. In no case may the water/cement ratio be exceeded. Concrete supplier shall indicate in the mix design submittals the maximum amount of water per yard that can be added on site

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify lines, levels, and dimensions before proceeding with work of this section.

3.02 PREPARATION

- A. Prepare existing concrete surfaces to be repaired according to ICRI 310.2R.
- B. Where new concrete is to be bonded to previously placed concrete, prepare existing surface by cleaning and applying bonding agent in according to bonding agent manufacturer's instructions.
 1. Use epoxy bonding system for bonding to damp surfaces, for structural load-bearing applications, and where curing under humid conditions is required.
 2. Use latex bonding agent only for non-load-bearing applications.
- C. Interior Slabs on Grade: Install vapor retarder under interior slabs on grade. Comply with ASTM E1643. Lap joints minimum 6 inches. Seal joints, seams and penetrations watertight with manufacturer's recommended products and follow manufacturer's written instructions. Repair damaged vapor retarder before covering.
 1. Vapor Retarder Over Granular Fill: Install 3 1/2" compactible granular fill with 1/2" sand coarse before placing vapor retarder as indicated on drawings.

3.03 INSTALLING REINFORCEMENT AND OTHER EMBEDDED ITEMS

- A. Comply with requirements of ACI SPEC-301. Clean reinforcement of loose rust and mill scale, and accurately position, support, and secure in place to achieve not less than minimum concrete coverage required for protection.

- B. Install welded wire reinforcement in maximum possible lengths, and offset end laps in both directions. Splice laps with tie wire.
- C. Verify that anchors, seats, plates, reinforcement and other items to be cast into concrete are accurately placed, positioned securely, and will not interfere with concrete placement.

3.04 PLACING CONCRETE

- A. Place concrete in accordance with ACI PRC-304.
- B. Place concrete for floor slabs in accordance with ACI PRC-302.1.
- C. Notify Architect not less than 24 hours prior to commencement of placement operations.
- D. Maintain records of concrete placement. Record date, location, quantity, air temperature, and test samples taken.
- E. Ensure reinforcement, inserts, waterstops, embedded parts, and formed construction joint devices will not be disturbed during concrete placement.
- F. Finish floors level and flat, unless otherwise indicated, within the tolerances specified below.

3.05 FLOOR FLATNESS AND LEVELNESS TOLERANCES

- A. An independent testing agency, as specified in Section 01 40 00, will inspect finished slabs for compliance with specified tolerances.
- B. Minimum F(F) Floor Flatness and F(L) Floor Levelness Values:
 - 1. Exposed to View and Foot Traffic: F(F) of 35; F(L) of 24, on-grade only.
- C. Measure F(F) Floor Flatness and F(L) Floor Levelness in accordance with ASTM E1155/E1155M, within 48 hours after slab installation; report both composite overall values and local values for each measured section.
- D. Correct the slab surface if composite overall value is less than specified and if local value is less than two-thirds of specified value or less than F(F) 13/F(L) 10.
- E. Correct defects by grinding or by removal and replacement of the defective work. Areas requiring corrective work will be identified. Re-measure corrected areas by the same process.

3.06 CONCRETE FINISHING

- A. Repair surface defects, including tie holes, immediately after removing formwork.
- B. Concrete Slabs: Finish to requirements of ACI PRC-302.1 and as follows:
 - 1. Surfaces to Receive Thick Floor Coverings: "Wood float" as described in ACI PRC-302.1; thick floor coverings include quarry tile, ceramic tile, and Portland cement terrazzo with full bed setting system.
 - 2. Surfaces to Receive Thin Floor Coverings: "Steel trowel" as described in ACI PRC-302.1; thin floor coverings include carpeting, resilient flooring, seamless flooring, resinous matrix terrazzo, thin set quarry tile, and thin set ceramic tile.
 - 3. Decorative Exposed Surfaces: Trowel as described in ACI PRC-302.1; take measures necessary to avoid black-burnish marks; decorative exposed surfaces include surfaces to be stained or dyed, pigmented concrete, surfaces to receive liquid hardeners, surfaces to receive dry-shake hardeners, surfaces to be polished, and all other exposed slab surfaces.
- C. In areas with floor drains, maintain floor elevation at walls; pitch surfaces uniformly to drains at 1:100 nominal.

3.07 CURING AND PROTECTION

- A. Comply with requirements of ACI PRC-308. Immediately after placement, protect concrete from premature drying, excessively hot or cold temperatures, and mechanical injury.
- B. Maintain concrete with minimal moisture loss at relatively constant temperature for period necessary for hydration of cement and hardening of concrete.
 - 1. Normal concrete: Not less than seven days.

C. Surfaces Not in Contact with Forms:

1. Slabs and Floors To Receive Adhesive-Applied Flooring: Curing compounds and other surface coatings are usually considered unacceptable by flooring and adhesive manufacturers. If such materials must be used, either obtain the approval of the flooring and adhesive manufacturers prior to use or remove the surface coating after curing to flooring manufacturer's satisfaction.
2. Initial Curing: Start as soon as free water has disappeared and before surface is dry. Keep continuously moist for not less than three days by water ponding, water-fog spray, or saturated burlap.
3. Final Curing: Begin after initial curing but before surface is dry.
 - a. Curing Compound: Apply in two coats at right angles, using application rate recommended by manufacturer.

3.08 FIELD QUALITY CONTROL

- A. An independent testing agency will perform field quality control tests, as specified in Section 01 40 00 - Quality Requirements.
- B. Provide free access to concrete operations at project site and cooperate with appointed firm.
- C. Submit proposed mix design of each class of concrete to inspection and testing firm for review prior to commencement of concrete operations.
- D. Compressive Strength Tests: ASTM C39/C39M, for each test, mold and cure three concrete test cylinders. Obtain test samples for every 100 cubic yards or less of each class of concrete placed.
- E. Take one additional test cylinder during cold weather concreting, cured on job site under same conditions as concrete it represents.
- F. Perform one slump test for each set of test cylinders taken, following procedures of ASTM C143/C143M.

3.09 DEFECTIVE CONCRETE

- A. Test Results: The testing agency shall report test results in writing to Architect and Contractor within 24 hours of test.
- B. Defective Concrete: Concrete not complying with required lines, details, dimensions, tolerances or specified requirements.
- C. Repair or replacement of defective concrete will be determined by the Architect. The cost of additional testing shall be borne by Contractor when defective concrete is identified.
- D. Do not patch, fill, touch-up, repair, or replace exposed concrete except upon express direction of Architect for each individual area.

3.10 PROTECTION

- A. Do not permit traffic over unprotected concrete floor surface until fully cured.

END OF SECTION

SECTION 03 32 20
CONCRETE FLOOR UNDERLAYMENT

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Self-leveling concrete underlayment as indicated on the Drawings – See A1 Series Sheets for locations.

1.02 RELATED REQUIREMENTS

- A. Section 03 30 00 - Cast-in-Place Concrete: Finishing of concrete surface to tolerance; floating, troweling, and similar operations; curing.

1.03 REFERENCES

- A. ACI 302.1R - Guide to Concrete Floor and Slab Construction.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordinate the work with concrete floor placement and concrete floor curing.

1.05 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Manufacturer's published data on each product, including information on compatibility of different products and limitations.
- C. Furnish data, laboratory test reports and materials certificates as specified in the Section 03 31 00, "Concrete Work."

1.06 QUALITY ASSURANCE

- A. Installer's Qualifications shall be by an applicator authorized by the manufacturer using manufacturer's approved mixing and pumping equipment for the installation of the specified product.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Materials shall be delivered in their original, unopened packages and protected from exposure to the elements. Damaged or deteriorated materials shall be removed from the premises.

1.08 FIELD CONDITIONS

- A. Before, during and after installation of gypsum cementitious underlayment, building interior shall be enclosed and maintained at a temperature above 50 degrees F (10 degrees C).
- B. These temperatures must also be maintained during and for 48 hours after the installation of products included in this section. Install quickly if substrate is warm and follow warm weather instructions available from the manufacturer.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Self-Leveling Floor Underlayment:
 - 1. ARDEX Americas; ARDEX Feather Finish: www.ardexamericas.com.
 - 2. Maxxon Corp., Level-Right Self-Leveling Floor Underlayment: www.maxxon.com.
- B. Sand Aggregate: Washed masonry or plaster sand, 1/8-inch or less particle size.
- C. Water: Potable and free of impurities.
- D. Subfloor Primer: As required by the manufacturer.

2.02 MIX DESIGNS

- A. General: Mix proportions and methods shall be in strict accordance with product manufacturer's recommendations.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Apply materials in accordance with manufacturer's instructions.
- B. General: Subfloor shall be structurally sound. Clean subfloor to remove all mud, oil, grease and other contaminating material prior to the installation of the underlayment.
- C. Leak Prevention: Fill all cracks and voids with quick setting patching or caulking material where leakage of underlayment could occur.
- D. Primer: Prime subfloor using the floor primer complying with manufacturer's printed instructions. Priming instructions may vary according to type of substrate. Apply multiple coats where required by the manufacturer.
- E. Mixing: Comply with manufacturer's printed instructions.
- F. Application of Self-Leveling Concrete Underlayment shall not begin until the building is enclosed, including windows, doors and other fenestration. Install after drywall installation.
- G. Application: Comply with manufacturer's printed instructions. Place Self-Leveling Concrete Underlayment over concrete from a maximum of 3-inches thick to featheredge as required in conjunction with grinding of the existing concrete floor to create a level surface with no more than 1/4" variation in height over a 10'-0" run. Spread and screed underlayment to a smooth surface. Except at required joints, place underlayment as continuously as possible until application is complete so that no product slurry is placed against underlayment that has obtained its initial set.
 - 1. Comply with the Floor Flatness and Levelness Values as specified in 03 30 00 - Cast-in-Place Concrete:
 - a. Under Carpeting: F(F) of 25; F(L) of 20.
 - b. Under Thin Resilient Flooring and Thinset Tile: F(F) of 35; F(L) of 25.
- H. Drying: Provide continuous ventilation and adequate heat. Provide mechanical ventilation if required by the manufacturer. To test for dryness, tape a 24-inch by 24-inch section of plastic to the surface of the underlayment. After 48 to 72 hours, if no condensation occurs, the underlayment shall be considered moisture free.

3.02 QUALITY CONTROL

- A. Slump Test: At least one set of 3 molded cube samples shall be taken from each day's pour during the underlayment application. Cubes shall be tested recommended by the manufacturer's recommendation in accord with ASTM C109/C109M. Test results shall be available to Architect upon request from applicator.
- B. Protection: During construction, place temporary protection over the underlayment where subject to heavy wheeled or concentrated loads.

END OF SECTION

**SECTION 03 35 00
CONCRETE FLOOR FINISHES**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Surface treatments.
- B. Liquid densifiers and hardeners.

1.02 RELATED REQUIREMENTS

- A. Section 03 30 00 - Cast-in-Place Concrete: Finishing of concrete surface to tolerance; floating, troweling, and similar operations; curing.
- B. Section 03 30 00 - Cast-in-Place Concrete: Curing compounds that also function as sealers.

1.03 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:
- B. Coordinate the work with concrete floor placement and concrete floor curing.

1.04 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Manufacturer's published data on each finishing product, including information on compatibility of different products and limitations.
- C. Manufacturer's Instructions: Indicate manufacturer's installation instructions for preparation of substrate, application of finishing products, and requirements for polishing and protection of finished surface.
- D. Maintenance Data: Provide data on maintenance and renewal of applied finishes.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in manufacturer's sealed packaging, including application instructions.

1.06 FIELD CONDITIONS

- A. Maintain light level equivalent to a minimum 200 W light source at 8 feet above the floor surface over each 20 foot square area of floor being finished.
- B. Do not finish floors until interior heating system is operational.
- C. Maintain ambient temperature of 50 degrees F minimum.

PART 2 PRODUCTS

2.01 CURING MATERIALS

- A. Curing Compound, Naturally Dissipating: Clear, water-based, liquid membrane-forming compound; complying with ASTM C309.
 - 1. Application: Use at locations where cure and seal will interfere with flooring.
 - 2. Products:
 - a. L&M Construction Chemicals Inc; L & M Cure: www.lmcc.com..

2.02 DENSIFIERS AND HARDENERS

- A. Liquid Densifier and Hardener: Penetrating chemical compound that reacts with concrete, filling the pores, hardening, and dustproofing.
 - 1. Application: Use at Exposed Floor Slabs.
 - 2. Products:
 - a. L&M Construction Chemicals, Inc; SEAL HARD: www.lmcc.com/#sle.
 - b. PROSOCO, Inc; Consolideck LS/CS: www.prosoco.com/consolideck/#sle.

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.

3.03 COATING APPLICATION

- A. Verify that surface is free of previous coatings, sealers, curing compounds, water repellents, laitance, efflorescence, fats, oils, grease, wax, soluble salts, residues from cleaning agents, and other impediments to adhesion.
- B. Protect adjacent non-coated areas from drips, overflow, and overspray; immediately remove excess material.
- C. Other Surfaces to Be Left Exposed: Trowel as described in ACI PRC-302.1, minimizing burnish marks and other appearance defects.
 - 1. Chemical Hardener: Apply in accordance with manufacturer's instructions.
- D. Apply coatings in accordance with manufacturer's instructions, matching approved mock-ups for color, special effects, sealing and workmanship.

3.04 PROTECTION

- A. Protect installed coatings from subsequent construction operations.
- B. Do not permit traffic over unprotected floor surface.

END OF SECTION

DIVISION 04 – NOT USED

DIVISION 05 – METALS

SECTION 05 12 00
STRUCTURAL STEEL FRAMING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Structural steel framing members.
- B. Base plates, shear stud connectors and expansion joint plates.
- C. Grouting under base plates.

1.02 REFERENCE STANDARDS

- A. AISC (MAN) - Steel Construction Manual; 2023, with Errata (2025).
- B. AISC 303 - Code of Standard Practice for Steel Buildings and Bridges; 2022, with Errata (2025).
- C. AISC 325 - Steel Construction Manual; 2023.
- D. ASTM A36/A36M - Standard Specification for Carbon Structural Steel; 2019.
- E. ASTM A53/A53M - Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless; 2024.
- F. ASTM A449 - Standard Specification for Hex Cap Screws, Bolts and Studs, Steel, Heat Treated, 120/105/90 ksi Minimum Tensile Strength, General Use; 2014 (Reapproved 2020).
- G. ASTM A500/A500M - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes; 2023.
- H. ASTM A529/A529M - Standard Specification for High-Strength Carbon-Manganese Steel of Structural Quality; 2019.
- I. ASTM A563/A563M - Standard Specification for Carbon and Alloy Steel Nuts (Inch and Metric); 2021a.
- J. ASTM A992/A992M - Standard Specification for Structural Steel Shapes; 2022.
- K. ASTM C1107/C1107M - Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink); 2020.
- L. ASTM F436/F436M - Standard Specification for Hardened Steel Washers Inch and Metric Dimensions; 2024.
- M. ASTM F1554 - Standard Specification for Anchor Bolts, Steel, 36, 55, and 105-ksi Yield Strength; 2020.
- N. ASTM F3125/F3125M - Standard Specification for High Strength Structural Bolts and Assemblies, Steel and Alloy Steel, Heat Treated, Inch Dimensions 120 ksi, 144 ksi, and 150 ksi Minimum Tensile Strength, and Metric Dimensions 830 MPa and 1040 MPa Minimum Tensile Strength; 2025a.
- O. AWS A2.4 - Standard Symbols for Welding, Brazing, and Nondestructive Examination; 2020.
- P. AWS B2.1/B2.1M - Specification for Welding Procedure and Performance Qualification; 2021, with Errata (2023).
- Q. AWS D1.1/D1.1M - Structural Welding Code - Steel; 2025, with Errata (2026).
- R. IAS AC172 - Accreditation Criteria for Fabricator Inspection Programs for Structural Steel AC172; 2019, with Editorial Revision (2025).
- S. RCSC (HSBOLT) - Specification for Structural Joints Using High-Strength Bolts; Research Council on Structural Connections; 2020.
- T. SSPC-Paint 15 - Steel Joist Shop Primer/Metal Building Primer; 2004.
- U. SSPC-SP 1 - Solvent Cleaning; 2015, with Editorial Revision (2016).
- V. SSPC-SP 2 - Hand Tool Cleaning; 2024.

W. SSPC-SP 3 - Power Tool Cleaning; 2024.

1.03 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Shop Drawings:
 - 1. Indicate profiles, sizes, spacing, locations of structural members, openings, attachments, and fasteners.
 - 2. Connections not detailed.
 - 3. Indicate welded connections with AWS A2.4 welding symbols. Indicate net weld lengths.
- C. Welders' Qualification Statement: Welders' certificates in accordance with AWS B2.1/B2.1M and dated no more than 12 months before start of scheduled welding work.
- D. Fabricator's Qualification Statement: Provide documentation showing steel fabricator is accredited under IAS AC172.

1.04 QUALITY ASSURANCE

- A. Fabricate structural steel members in accordance with AISC (MAN) "Steel Construction Manual."
- B. Welder Qualifications: Welding processes and welding operators qualified in accordance with AWS D1.1/D1.1M and no more than 12 months before start of scheduled welding work.
- C. Erector: Company specializing in performing the work of this section with minimum 5 years of documented experience.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Steel Angles and Plates: ASTM A36/A36M.
- B. Steel W Shapes and Tees: ASTM A992/A992M.
- C. Cold-Formed Structural Tubing: ASTM A500/A500M, Grade B.
- D. Pipe: ASTM A53/A53M, Grade B, Finish black.
- E. High-Strength Structural Bolts, Nuts, and Washers: ASTM F3125/F3125M, Type 1, with matching compatible ASTM A563/A563M nuts and ASTM F436/F436M washers.
- F. Tension Control Bolts: Twist-off type; ASTM F3125/F3125M.
- G. Unheaded Anchor Rods: ASTM F1554, Grade 55, plain, with matching ASTM A563/A563M nuts and ASTM F436/F436M Type 1 washers.
- H. Welding Materials: AWS D1.1/D1.1M; type required for materials being welded.
- I. Grout: ASTM C1107/C1107M; Non-shrink; premixed compound consisting of non-metallic aggregate, cement, water reducing and plasticizing agents.
 - 1. Minimum Compressive Strength at 48 Hours: 2,000 pounds per square inch.
 - 2. Minimum Compressive Strength at 28 Days: 7,000 pounds per square inch.
- J. Shop and Touch-Up Primer: Fabricator's standard, complying with VOC limitations of authorities having jurisdiction.
- K. Touch-Up Primer for Galvanized Surfaces: Fabricator's standard, complying with VOC limitations of authorities having jurisdiction.

2.02 FABRICATION

- A. Shop fabricate to greatest extent possible.
- B. Fabricate connections for bolt, nut, and washer connectors.

2.03 FINISH

- A. Prepare structural component surfaces in accordance with SSPC-SP 3.

- B. Shop prime structural steel members. Do not prime surfaces that will be fireproofed, field welded, in contact with concrete, or high strength bolted.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that conditions are appropriate for erection of structural steel and that the work may properly proceed.

3.02 ERECTION

- A. Erect structural steel in compliance with AISC 303.
- B. Allow for erection loads and provide sufficient temporary bracing to maintain structure in safe condition, plumb, and in true alignment until completion of erection and installation of permanent bracing.
- C. Field weld components and shear studs indicated on shop drawings.
- D. Use carbon steel bolts only for temporary bracing during construction, unless otherwise specifically permitted on drawings. Install high-strength bolts in accordance with RCSC (HSBOLT) "Specification for Structural Joints Using High-Strength Bolts".
- E. Do not field cut or alter structural members without approval of Architect.
- F. After erection, prime welds, abrasions, and surfaces not shop primed, except surfaces to be in contact with concrete.
- G. Grout solidly between column plates and bearing surfaces, complying with manufacturer's instructions for nonshrink grout. Trowel grouted surfaces smooth, splaying neatly to 45 degrees.

3.03 TOLERANCES

- A. Maximum Variation From Plumb: 1/4 inch per story, non-cumulative.

3.04 FIELD QUALITY CONTROL

- A. An independent testing agency will perform field quality control tests, as specified in Section 01 40 00 - Quality Requirements.
- B. High-Strength Bolts: Visually inspect and verify of field-bolted connections in accordance with RCSC (HSBOLT)
- C. Welded Connections: Visually inspect all field-welded connections

END OF SECTION

DIVISION 06 – WOOD, PLASTICS, AND COMPOSITES

**SECTION 06 10 00
ROUGH CARPENTRY**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Miscellaneous wood nailers, furring, and trim.

1.02 RELATED REQUIREMENTS

- A. Section 09 21 16 - Gypsum Board Assemblies: Gypsum-based sheathing.

1.03 REFERENCE STANDARDS

- A. ASME B18.2.1 - Square, Hex, Heavy Hex, and Askew Head Bolts and Hex, Heavy Hex, Hex Flange, Lobed Head, and Lag Screws (Inch Series); 2012 (Reaffirmed 2021).
- B. ASTM A307 - Standard Specification for Carbon Steel Bolts, Studs, and Threaded Rod 60 000 PSI Tensile Strength; 2021.
- C. ASTM A563 - Standard Specification for Carbon and Alloy Steel Nuts; 2021a.
- D. ASTM F1667 - Standard Specification for Driven Fasteners: Nails, Spikes, and Staples; 2021.
- E. ASTM F593 - Standard Specification for Stainless Steel Bolts, Hex Cap Screws, and Studs; 2024.
- F. ASTM F594 - Standard Specification for Stainless Steel Nuts; 2024.
- G. PS 20 - American Softwood Lumber Standard; 2025.

1.04 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements for submittal procedures.
- B. Product Data: Provide technical data on each type of process and factory-fabricated product.
- C. Material Certificates: For dimension lumber specified to comply with minimum allowable unit stresses. Indicate species and grade selected for each use and design values approved by the American Lumber Standards Committee Board of Review.
- D. Research/Evaluation Reports: For the following, showing compliance with the building code in effect for the Project:
 - 1. Power-driven fasteners.
 - 2. Powder-actuated fasteners.
 - 3. Expansion anchors

1.05 QUALITY ASSURANCE

- A. New Products: Only new lumber shall be utilized throughout the project.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. General: Cover wood products to protect against moisture. Support stacked products to prevent deformation and to allow air circulation.

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

- A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies.
 - 1. If no species is specified, provide species graded by the agency specified; if no grading agency is specified, provide lumber graded by grading agency meeting the specified requirements.
 - 2. Grading Agency: Grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee at www.alsc.org, and who provides grading service for the species and grade specified; provide lumber stamped with grade mark unless otherwise indicated.

3. Where nominal sizes are indicated, provide actual sizes required by PS 20 for moisture content specified. Where actual sizes are indicated, they are minimum dressed sizes for dry lumber.
4. Provide dry lumber with 19 percent maximum moisture content at time of dressing for 2-inch nominal thickness or less, unless otherwise indicated.
5. Treated wood will not be allowed, except at sill plate conditions.

2.02 DIMENSION LUMBER

- A. General: Provide dimension lumber of grades indicated according to the American Lumber Standards Committee National Grading Rule provisions of the grading agency indicated.
- B. Sizes: Nominal sizes as indicated on drawings, S4S.
- C. Moisture Content: S-dry or MC19.
- D. Miscellaneous Trim (2 by 6 through 4 by 16):
 1. Species: Douglas Fir-Larch.
- E. Miscellaneous Framing, Blocking, Nailers, Grounds, and Furring:
 1. For items of dimension lumber size, provide Construction, Stud or No. 2 grade SPF lumber with 19 percent maximum moisture content.
 2. For concealed boards, provide lumber with 19 percent maximum moisture content and the following species and grades:
 - a. Spruce-pine-fir (south) or Spruce-pine-fir, Construction or No. 2 Common grade; NELMA, NLGA, WCLIB, or WWPA.

2.03 FASTENERS

- A. General: Provide fasteners of size and type indicated that comply with requirements specified in this Article for material and manufacture.
 1. Where rough carpentry is exposed to weather, in ground contact, or in an area of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A153.
- B. Nails, Brads, and Staples: ASTM F1667 .
- C. Power-Driven Fasteners: CABO NER-272.
- D. Wood Screws: ASME B18.6.1.
- E. Lag Bolts: ASME B18.2.1 .
- F. Bolts: Steel bolts complying with ASTM A307 , Grade A, Property Class 4.6; with ASTM A563 Hex nuts and, where indicated, flat washers.
- G. Headed Anchor Bolts at Sill Plates: Stainless steel with bolts and nuts complying with ASTM F593 and ASTM F594 , Alloy Group 1 or 2.

2.04 ACCESSORIES

- A. Metal and Finish of Fasteners:
 1. Untreated Wood: Unfinished steel.

PART 3 EXECUTION

3.01 PREPARATION

- A. Coordinate installation of rough carpentry members specified in other sections.

3.02 INSTALLATION - GENERAL

- A. Set rough carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit rough carpentry to other construction; scribe and cope as needed for accurate fit.
- B. Securely attach rough carpentry work to substrate by anchoring and fastening as indicated, complying with the following:
 1. CABO NER-272 for power-driven fasteners.
 2. Published requirements of metal framing anchor manufacturer.
 3. Table 2304.9.1, "Fastening Schedule", in the 2006 International Building Code.

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4. Use common wire nails, unless otherwise indicated. Select fasteners of size that will not fully penetrate members where opposite side will be exposed to view or will receive finish materials. Make tight connections between members. Install fasteners without splitting wood; pre-drill as required.
5. Use finishing nails for exposed work, unless otherwise indicated. Countersink nail heads and fill holes with wood filler.

3.03 BLOCKING, NAILERS, AND SUPPORTS

- A. Provide framing and blocking members as indicated or as required to support finishes, fixtures, specialty items, and trim.
- B. Build anchor bolts into masonry during installation of masonry work. Where possible, secure anchor bolts to formwork before concrete placement.
- C. 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 other method of support is explicitly indicated.

END OF SECTION

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

**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 C919 - Standard Practice for Use of Sealants in Acoustical Applications; 2024.
- E. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2018 (Reapproved 2024).
- F. ASTM C1087 - Standard Test Method for Determining Compatibility of Liquid-Applied Sealants with Accessories Used in Structural Glazing Systems; 2023.
- G. ASTM C1193 - Standard Guide for Use of Joint Sealants; 2025.
- H. ASTM C1248 - Standard Test Method for Staining of Porous Substrate by Joint Sealants; 2022.
- I. 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. Certification by manufacturer indicating that product complies with specification requirements.
- C. Color Cards for Selection: Where sealant color is not specified, submit manufacturer's color cards showing standard colors available for selection. Samples shall be strips of actual caulking. Paper samples shall not be acceptable.
- D. Preconstruction Laboratory Test Reports: Submit at least four weeks prior to start of installation.
- E. Executed warranty.

1.04 QUALITY ASSURANCE

- A. Installer Qualifications: Company specializing in performing the work of this section and with at least three years of documented experience.
- B. 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.
6. Testing is not required if sealant manufacturer provides data showing previous testing, not older than 24 months, that shows satisfactory adhesion, lack of staining, and compatibility.

1.05 WARRANTY

- A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.
- B. Manufacturer Warranty: Provide listed 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.
 1. Urethane Sealants: Five years.
 2. Silicone Sealants: Twenty years.
- C. Extended Correction Period: Correct defective work within 5-year period commencing on Date of Substantial Completion.

1.06 JOB CONDITIONS

- A. Weather and Temperature: Sealants shall be installed on dry days preferably with temperatures between 40F and 55F, but in no case shall sealants be installed when temperatures are below 40F or above 90F.
- B. Protection: Special care shall be exercised to prevent damage to adjacent work during installation of sealants.
- C. Sequencing:
 1. Install sealant adjacent to painted and stained surfaces before adjacent surfaces receive their final coat of paint or stain.
 2. Install sealants after brickwork and concrete is washed down and before water repellent treatment is applied.
 3. Caulking shall not begin until all samples have been approved and until a meeting has been held at the construction site between the Architect/Engineer and the caulking subcontractor to discuss miscellaneous caulking requirements and workmanship.

PART 2 PRODUCTS

2.01 JOINT SEALANT APPLICATIONS

- A. Scope:
 1. Interior Joints:
 - a. Do not seal through-penetrations in sound-rated assemblies that are also fire-rated assemblies.
 2. Do Not Seal:
 - a. Intentional weep holes in masonry.
 - b. Joints indicated to be covered with manufactured expansion joint cover assemblies or other sealing devices.
 - 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. Interior Joints: Use non-sag polyurethane sealant, unless otherwise indicated.
 1. Wall and Ceiling Joints in Non-Wet Areas: Acrylic emulsion latex sealant.
 2. Interior Expansion Joints at Exterior Walls.

2.02 JOINT SEALANTS - GENERAL

- A. Sealants and Primers: Provide products having lower volatile organic compound (VOC) content than indicated in SCAQMD 1168.

2.03 NONSAG JOINT SEALANTS

- A. Non-Staining Silicone Sealant: ASTM C920, Grade NS, Uses M and A; not expected to withstand continuous water immersion or traffic.
 - 1. Nonstaining to Porous Stone: Nonstaining to light-colored natural stone when tested in accordance with ASTM C1248.
 - 2. Dirt Pick-Up: Reduced dirt pick-up compared to other silicone sealants.
 - 3. Products:
 - a. Dow; DOWSIL 790 Silicone Building Sealant: www.dow.com/#sle.
 - b. Dow; DOWSIL 791 Silicone Weatherproofing Sealant: www.dow.com/#sle.
 - c. Pecora Corporation: www.pecora.com/#sle.
 - d. Tremco Commercial Sealants & Waterproofing; Spectrem 1: www.tremcosealants.com/#sle.
 - e. Tremco Commercial Sealants & Waterproofing; Spectrem 3: www.tremcosealants.com/#sle.
 - f. Substitutions: See Section 01 60 00 - Product Requirements.
- B. 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. Products:
 - a. Pecora Corporation; Dynatrol II: www.pecora.com/#sle.
 - b. Sika Corporation; Sikaflex-2c NS: www.usa-sika.com/#sle.
 - c. Tremco Commercial Sealants & Waterproofing; Vulkem 116: www.tremcosealants.com/#sle.
 - d. Tremco Commercial Sealants & Waterproofing; Dymeric 511: www.tremcosealants.com/#sle.
 - e. Substitutions: See Section 01 60 00 - Product Requirements.
- C. Acrylic Emulsion Latex: Water-based; ASTM C834, single component, non-staining, non-bleeding, non-sagging; not intended for exterior use. Acoustical Sealant for use at penetrations through walls and at the tops of walls.
 - 1. Color: To be selected by Architect from manufacturer's standard range.
 - 2. Products:
 - a. Hilti, Inc; CP 506 Smoke and Acoustical Sealant: www.us.hilti.com/#sle.
 - b. Pecora Corporation; AC-20: www.pecora.com/#sle.
 - c. Substitutions: See Section 01 60 00 - Product Requirements.

2.04 SELF-LEVELING JOINT SEALANTS

- A. Self-Leveling Polyurethane Sealant: ASTM C920, Grade P, Uses M and A; multi-component; explicitly approved by manufacturer for traffic exposure; not expected to withstand continuous water immersion .
 - 1. Movement Capability: Plus and minus 25 percent, minimum.
 - 2. Hardness Range: 35 to 55, Shore A, when tested in accordance with ASTM C661.
 - 3. Products:
 - a. Sika Corporation; Sikaflex-2c SL: usa.sika.com/#sle.
 - b. Substitutions: See Section 01 60 00 - Product Requirements.
- B. Self-Leveling Polyurethane Sealant for Horizontal Expansion Joints: ASTM C920, Grade P, Uses T, M and O; multi-component; explicitly approved by manufacturer for horizontal expansion joints.
 - 1. Movement Capability: Plus and minus 25 percent, minimum.
 - 2. Hardness Range: 30 to 35, Shore A, when tested in accordance with ASTM C661.
 - 3. Products:
 - a. Tremco Commercial Sealants & Waterproofing: www.tremcosealants.com/#sle.
 - b. Substitutions: See Section 01 60 00 - Product Requirements.

- C. Self-Leveling Polysulfide Sealant: ASTM C920, Grade P, Uses M and A; multicomponent; explicitly approved by manufacturer for traffic exposure and continuous water immersion.
 - 1. Movement Capability: Plus and minus 25 percent.
 - 2. Products:
 - a. W. R. Meadows, Inc; Deck-O-Seal (pourable): www.wrmeadows.com/#sle.
 - b. Substitutions: See Section 01 60 00 - Product Requirements.

2.05 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. Preformed Extruded Silicone Joint Seal: Pre-cured low-modulus silicone extrusion, in sizes to fit applications indicated on drawings, combined with a neutral-curing liquid silicone sealant for bonding joint seal to substrates.
 - 1. Thickness: 0.78 inch, with ridges along outside bottom edges for bonding area.
 - 2. Products:
 - a. Tremco Commercial Sealants & Waterproofing; Spectrem Simple Seal: www.tremcosealants.com/#sle.
- C. Backing Tape: Self-adhesive polyethylene tape with surface that sealant will not adhere to and recommended by tape and sealant manufacturers for specific application.
- D. Masking Tape: Self-adhesive, nonabsorbent, nonstaining, removable without adhesive residue, and compatible with surfaces adjacent to joints and sealants.
- E. Joint Cleaner: Noncorrosive and nonstaining type, type recommended by sealant manufacturer; compatible with joint forming materials.
- F. 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.

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. Measure joint dimensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer, except where specific dimensions are indicated.
- D. Install bond breaker backing tape where backer rod cannot be used.
- E. Install sealant free of air pockets, foreign embedded matter, ridges, and sags, and without getting sealant on adjacent surfaces.

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- F. 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.
- G. 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. Remove and replace failed portions of sealants using same materials and procedures as indicated for original installation.

END OF SECTION

DIVISION 08 – NOT USED

DIVISION 09 – FINISHES

**SECTION 09 91 23
INTERIOR PAINTING**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Surface preparation.
- B. Field application of paints.
- C. Scope: Finish interior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated.
 - 1. Mechanical and Electrical:
 - a. In finished areas, paint items indicated to be painted in the Drawings, unless otherwise indicated. Color shall match color of adjacent wall or ceiling; coordinate with Architect.
 - 1) Provide touch up paint as needed on existing mechanical and electrical. Color to match existing.
- D. 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. Ceramic and other tiles.
 - 9. Brick, architectural concrete, cast stone, integrally colored plaster, and stucco.
 - 10. Glass.
 - 11. Acoustical materials, unless specifically indicated.
 - 12. Concealed pipes, ducts, and conduits.
 - 13. Telecommunications cables: coordinate paint and cable installation schedule with the telecommunications contractor. Protect cabling from direct painting or over-spray. Cables which have been painted are void of the manufacturer's warranty and will be replaced at this contractor's expense.

1.02 DEFINITIONS

- A. Comply with ASTM D16 for interpretation of terms used in this section.

1.03 REFERENCE STANDARDS

- A. ASTM D16 - Standard Terminology for Paint, Related Coatings, Materials, and Applications; 2024.
- B. ASTM D4442 - Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Based Materials; 2020 (Reapproved 2025).
- C. SSPC-SP 3 - Power Tool Cleaning; 2024.

1.04 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. 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.
- D. Manufacturer's Instructions: Indicate special surface preparation procedures.
- E. Maintenance Data: Submit data including care and cleaning instructions, touch-up procedures, and repair of painted and finished surfaces.
- 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.

1.05 QUALITY ASSURANCE

- A. Applicator Qualifications: Company specializing in performing the type of work specified with minimum 3 years experience and approved by manufacturer.
- B. Pre-Painting Conference: Prior to the start of painting and after approval of required shop drawings and samples, the General Contractor shall arrange a Pre-painting Conference at the project site at a pre-arranged time approved by the Architect/Engineer. The conference shall include in attendance the painting subcontractor and his/her jobsite foreperson. The contractor shall record discussions and agreements that are made which are not specifically addressed in the Contract Documents, and shall furnish a copy to all involved participants.

1.06 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.

1.07 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. Do not apply materials when relative humidity exceeds 85 percent, at temperatures less than 5 degrees F above the dew point, or to damp or wet surfaces.
- D. Minimum Application Temperatures for Paints: 50 degrees F for interiors unless required otherwise by manufacturer's instructions.
- E. Provide lighting level of 80 fc measured mid-height at substrate surface.
- F. Sequencing: Frames and doors shall be given their first coat of paint and stain/varnish before glass is installed.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Provide paints and finishes used in any individual system from the same manufacturer; no exceptions.
- B. Paints:
 - 1. Base Manufacturer: Sherwin-Williams.
 - 2. Behr Paint Company: www.behr.com/#sle.
 - 3. Benjamin Moore: www.benjaminmoore.com/#sle.

4. Diamond Vogel Paints: www.diamondvogel.com/#sle.
5. Pittsburgh Paints: www.pittsburghpaintsco.com/#sle.
6. Sherwin-Williams Company: www.sherwin-williams.com/#sle.
7. Tnemec: www.tnemec.com/#sle.

C. Primer Sealers: Same manufacturer as top coats.

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. Supply each paint material in quantity required to complete entire project's work from a single production run.
 3. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions.
- B. Flammability: Comply with applicable code for surface burning characteristics.

2.03 PAINT SYSTEMS - INTERIOR

- A. Wood and Plywood (Painted), 3 Coats:
1. One coat of primer.
 - a. Products:
 - 1) Sherwin Williams, ProMar 200 Zero VOC Interior Latex Primer.
 - 2) Pittsburgh Paints, Seal Grip Acrylic Undercoater/Primer.
 2. Semi-Gloss: Two finish coats.
 - a. Products:
 - 1) Sherwin Williams, ProMar 200 Zero VOC Interior Latex.
 - 2) Pittsburgh Paints, Speedhide Zero VOC Interior Latex.
- B. Existing Concrete Masonry (Previously painted), 2 Coats:
1. Eg-Shel: Two finish coats.
 - a. Products:
 - 1) Sherwin Williams, ProMar 200 Zero VOC Interior Latex.
 - 2) Pittsburgh Paints, Speedhide Zero VOC Interior Latex.

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. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- E. Test shop-applied primer for compatibility with subsequent cover materials.
- F. 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. Interior Wood: 15 percent, measured in accordance with ASTM D4442.

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. Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
- G. After application of first coat, putty nail holes, cracks, etc., with putty of a color to match that of the finish. Bring putty flush to the adjoining surface. Sandpaper smooth when dried.
- H. 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.
 - 3. Clean surfaces with pressurized water. Use pressure range of 600 to 1,500 psi at 6 to 12 inches. Allow to dry.
- I. 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. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.
- B. Apply products in accordance with manufacturer's written instructions.
- C. Where adjacent sealant is to be painted, do not apply finish coats until sealant is applied.
- D. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
- E. Apply each coat to uniform appearance in thicknesses specified by manufacturer.
- F. Dark Colors and Deep Clear Colors: Regardless of number of coats specified, apply as many coats as necessary for complete hide.
- G. Sand wood and metal surfaces lightly between coats to achieve required finish.
- H. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.
- I. Wood to Receive Transparent Finishes: Tint fillers to match wood. Work fillers into the grain before set. Wipe excess from surface.
- J. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

3.04 FIELD QUALITY CONTROL

- A. See Section 01 40 00 - Quality Requirements, for general requirements for field inspection.
- B. First Coat Inspection: When a coat of material has been applied, the Painting Subcontractor shall inform the Architect/Engineer so that the work may be inspected and approved. Credit for succeeding coats will not be given unless the preceding coat has been so examined and approved.

3.05 CLEANING

- A. Clean surfaces to be painted before applying paint or surface treatments. Remove oil and grease prior to mechanical cleaning. Program cleaning and painting so that contaminants from cleaning process will not fall onto wet, newly-painted surfaces.
- B. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.

3.06 PROTECTION

- A. Protect work of other trades whether to be painted or not, against damage by painting and finishing work. Correct any damage by cleaning, repairing or replacing, and repainting, as acceptable to Architect.
- B. Protect adjacent work, building finishes and surfaces of manufactured casework or similar items with masking tape, drop cloths or other suitable coverings. Manufactured casework, millwork, cabinetwork, food service equipment and similar items shall not be utilized for any construction related purpose or utilized as work surface, scaffolding, plank supports or in any way walked upon.
- C. Provide "Wet Paint" signs as required to protect newly-painted finishes. Remove temporary protective wrappings provided by others for protection of their work, after completion of painting operations.
- D. Protect finishes until completion of project.
- E. Touch-up damaged finishes after Substantial Completion.

3.07 COLOR SCHEDULE

- A. P-1: Walls as indicated on the Drawings. Color to match existing.
- B. P-2: Miscellaneous steel as indicated on the Drawings. Color to match existing.

END OF SECTION

DIVISIONS 10 THROUGH 14 – NOT USED

SEALS PAGE

OWNER:

- A. Lewis Central Community School District
4121 Harry Langdon Blvd.
Council Bluffs, Iowa 51503
Phone: (402) 453-2468

ARCHITECT:

- A. BCDM Architects
1015 North 98th Street, Suite 300
Omaha, Nebraska 68114-2334
Phone: 402-391-2211

- B. I, Greg Stieren, am the Coordinating Professional and Architect for the Lewis Central High School Wrestling Wall Removal dated March 9, 2026.

	I HEREBY CERTIFY THAT THE PORTION OF THIS TECHNICAL SUBMISSION DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND RESPONSIBLE CHARGE. I AM A DULY REGISTERED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF IOWA. SIGN & DATE: <u><i>Greg Stieren</i> 3/9/2026</u>
	PRINTED NAME: GREGORY S. STIEREN LICENSE NUMBER: 07744 MY LICENSE RENEWAL DATE IS JUNE 30: 2027 PAGES/ SHEETS/ DIVISIONS COVERED BY THIS SEAL: Divisions 0 through 9
ONLY THESE COPIES OF THIS DOCUMENT SIGNED IN CONTRASTING INK COLOR ARE TO BE CONSIDERED CERTIFIED OFFICIAL COPIES PER IOWA ADMINISTRATION CODE 554D.	

Lewis Central High School
Wrestling Wall Removal

STRUCTURAL ENGINEER:

	<p>I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA</p> <p><i>J.F. Lange</i> <i>3/9/20</i></p> <p>JAMES F LANGE, SE</p> <p>LICENSE NUMBER: 20084 LICENSE RENEWAL DATE: DECEMBER 31, 2027</p> <p>DIVISIONS COVERED BY THIS SEAL: 03, 05</p>
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END OF SECTION