

TO ALL CONTRACTORS

The following are clarifications and/or changes to the Plans and Specifications dated October 10, 2024 for the above-named Project, to be Bid on November 7, 2024 @ 2:00 PM

ENCLOSURE: *Certification Page. Pre-Bid Sign-In Sheet.*

Architectural: *Revised Document 00 21 13. Attached Document 00 21 13 Questions and Answers*

Mechanical: *Revised Drawings: A1.1, A2.1, A3.1, A9.1 and A11.1.*

Electrical: *Revised Sections: 26 09 45. Revised Drawings: E2.1.*

Mechanical: *Revised Drawings: MD3.1 and M3.1.*

PRIOR APPROVALS OF SUBSTITUTIONS

1. The following are approved for the above mentioned Project:

<u>Section</u>	<u>Type</u>	<u>Acceptable Manufacturer</u>
26 51 00	H1	Lumark CLCS17S

INTRODUCTORY INFORMATION

2. Document 00 01 05 of the Project Manual:

a. Refer to Certification Page, included as an enclosure with this Addendum.

3. Document 00 11 13 of the Project Manual:

a. Refer to Pre-Bid Meeting. The Sign-In Sheet is included as an enclosure with this Addendum For Informational Purposes Only.

4. Document 00 21 13 of the Project Manual:

a. **Delete** Document 00 21 13 in its entirety and replace with Revised Section 00 21 13, included as an enclosure with this Addendum. Refer to **Bold** and **Italic** item(s) within Section.

5. Document 00 21 13 of the Project Manual:

a. Refer to Attachment to Document 00 21 13, Questions and Answers Received During Bidding, included as an enclosure with this Addendum.

ARCHITECTURAL DRAWINGS

6. Sheet A1.1 of the Drawings:

a. Replace Sheet A1.1 with Revised Sheet A1.1, Revision 1, (clouded revision(s)), included as an enclosure with this Addendum.

7. Sheet A2.1 of the Drawings:
 - a. Replace Sheet A2.1 with Revised Sheet A2.1 , Revision 1, (clouded revision(s), included as an enclosure with this Addendum.
8. Sheet A3.1 of the Drawings:
 - a. Replace Sheet A3.1 with Revised Sheet A3.1 , Revision 1, (clouded revision(s), included as an enclosure with this Addendum.
9. Sheet A9.1 of the Drawings:
 - a. Replace Sheet A9.1 with Revised Sheet A9.1 , Revision 1, (clouded revision(s), included as an enclosure with this Addendum.
10. Sheet A11.1 of the Drawings:
 - a. Replace Sheet A11.1 with Revised Sheet A11.1 , Revision 1, (clouded revision(s), included as an enclosure with this Addendum.

MECHANICAL DRAWINGS

11. Sheet MD3.1 of the Drawings:
 - a. Replace Sheet MD3.1 with Revised Sheet MD3.1 , Revision 1, (clouded revision(s), included as an enclosure with this Addendum.
12. Sheet M3.1 of the Drawings:
 - a. Replace Sheet M3.1 with Revised Sheet M3.1 , Revision 1, (clouded revision(s), included as an enclosure with this Addendum.

ELECTRICAL SPECIFICATIONS

13. Section 26 09 45 of the Specifications:
 - a. **Delete** Section 26 09 45 in its entirety and replace with Revised Section 26 09 45, included as an enclosure with this Addendum. Refer to **Bold** and *Italic* items within Section.

ELECTRICAL DRAWINGS

14. Sheet E2.1 of the Drawings:
 - a. Replace Sheet E2.1, with Revised Sheet E2.1, Revision 1, (clouded revision(s), included as an enclosure with this Addendum.

END OF ADDENDUM

CERTIFICATION PAGE

PROJECT:

**DAYTON ELEMENTARY SCHOOL
REMODELING AND DEFERRED MAINTENANCE
PROJECT - PHASE 3**
12000 South Diamond Lake Rd,
Dayton, Minnesota 55327

ARCHITECT'S CERTIFICATION:

I hereby certify that this Plan, Specification, or Report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

Name David M. Maroney, AIA

Signature 

Date October 10, 2024 License No. 20992

**MECHANICAL ENGINEER'S
CERTIFICATION:**

I hereby certify that this Plan, Specification, or Report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Name Blayne J. Parkos, PE

Signature 

Date October 10, 2024 License No. 46630

**ELECTRICAL ENGINEER'S
CERTIFICATION:**

I hereby certify that this Plan, Specification, or Report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Name Nicholas Achina, PE

Signature 

Date October 10, 2024 License No. 40408

END OF DOCUMENT

PRE-BID MEETING

SIGN IN SHEET

ANOKA - HENNEPIN SCHOOL DISTRICT NO. 11
 DAYTON ES REMODELING AND DEFERRED MAINTENANCE PROJECT - PHASE 3
 PROJECT NUMBER: 22064.2
 PRE-BID MEETING: OCTOBER 30, 2024 @ 7:00 AM
 BID DATE: NOVEMBER 7, 2024 @ 2:30 PM
 ANOKA BID NUMBER: 25019B

PRESENT: (Please write/print clearly - Thank You)

NAME	COMPANY	PHONE NO.	EMAIL ADDRESS
Bryan Withner	Ace Electrical	612-791-1894	withnerb@aceelectrical.net
Chris Zilber	Wino Elec	320-298-8468	C.zilber@wino-inc.com
Steve Michel	Tangerman Constr	612 363 3571	stevem@tangermanconstruction.com
Josh Nichols	Ebert Constr	763 498-7847	jnichols@ebertcompanies.com
Terr Konowski	Emvabate	651-368-4707	tkonowski@emvabate.com
Scott Nelson	Yoursy Constr	320 296 8583	Coop@yoursyconstruction.com
Jim Penzance	Lakes Area Elec.	651-248-2354	Jim@lakesareaelectric.net
David McFinney	Egan Company	715-441-4061	djm@eganco.com
PETE SMITH	DESIGN ELECTRIC	320-290-8113	PSTEIN@DESIGNELECT.COM

Armstrong, Torseth, Skold and Rydeen, Inc. (ATS&R)

PRE-BID MEETING

SIGN IN SHEET

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 DAYTON ES REMODELING AND DEFERRED MAINTENANCE PROJECT - PHASE 3
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 ANOKA BID NUMBER: 25019B

PRESENT: (Please write/print clearly - Thank You)

NAME	COMPANY	PHONE NO.	EMAIL ADDRESS
GREG LINDHOLM	GENERAL SPRINKLER	952-300-5634	GLINDHOLM@GENERALSPRINKLER.COM
Megan P. Sulthenthal	FTP	715-690-4394	Megan@FinishingTouchPlus.com
George Sinn	Lesober Inc	651-770-5350	gsinn@lesobercompanies.com
Chad Perkos	Flawless	651-489-1200	chadperkos@flawless.com
Joe McCabe	Choice Electric	612-306-7109	JMcCabe@choicelc.com
Derek Hueltge	PROSECTIONE	320-241-5495	derek@prosectione.com
Tara McMahon	Jorgenson Construction	612-979-4003	taram@jorgensonconstruction.com
Trevor Stoneker	DIV 16 ELECTRIC	763.760.0113	tl5.div16@gmail.com
Jim White	L-1045	952-567-7635	Jwhite@l1045.com
William Lorentz	Untamed Visuals	612-810-2060	wlorentz@untamedvisuals.com
Chad Perkos	Perkos Constr	651-455-0031	OFFICE@PerkosConstruction.com

Armstrong, Torseth, Skold and Rydeen, Inc. (ATS&R)

INSTRUCTIONS TO BIDDERS

Armstrong, Torseth, Skold & Rydeen, Inc
Architects and Engineers
8501 Golden Valley Road, Suite 300
Minneapolis, Minnesota 55427-4414
Telephone Number: 763-545-3731
Fax Number: 763-525-3289

To be considered, Bids shall be prepared in accordance with these Instructions to Bidders.

1.01 SUMMARY OF BIDDING

- A. **Base Bid:** A single lump sum Base Bid will be received for the total Scope of the Work for the Project.
- B. **Alternate Bids:** Prime Bidders are requested to submit a Bid for each Alternate Bid described in Section 01 23 00 of the Specifications and noted on the Bid Form, if any.
- C. **Additional Requirements:** Sub-Bidders who are offering bids for Division 27, **Division 28 for Wireless Access Control**, and Division 29 work shall be required to submit their bids directly to Prime Bidders, and not to other Sub-Bidders.

1.02 DEFINITIONS

- A. **Architect/Engineer:** The words "Architect" and "Engineer" are to be considered interchangeable throughout the Project Documents and shall mean Armstrong, Torseth, Skold, & Rydeen, Inc. (ATS&R, Inc.) and their consultants.
- B. **Bidding Documents:** Documents include the following:
 - 1. Bidding Requirements:
 - a. Call For Bids
 - b. Instructions to Bidders
 - c. Bid Form
 - 2. Addenda issued during Bidding
 - 3. Contract Forms to be Used:
 - a. Agreement Between Owner and Contractor
 - b. Performance Bond and Payment Bond
 - c. Certificates
 - 4. Conditions of the Contract:
 - a. General Conditions
 - b. Supplementary Conditions

- 5. Specifications
- 6. Drawings
- C. **Base Bid:** Amount stated on the Bid Form as the sum for which a Bidder/Prime Bidder offers to perform the work described in the Bidding Documents.
- D. **Alternate Bid:** Amount stated on the Bid Form as the sum for which a Prime Bidder offers to perform a defined change in the Work that is described in the Bidding Documents which adds to or deducts from the Base Bid amount if the Alternate is accepted by the Owner.
- E. **Bidder or Prime Bidder (Bidder/Prime Bidder):** Person or entity who submits a Bid direct to the Owner and agrees to enter into a Contract with the Owner if Bid is accepted by Owner.
- F. **Sub-Bidder:** Person or entity other than a Bidder/Prime Bidder.
- G. **Other Definitions:** Definitions provided in Section 00 72 00 - General Conditions of the Contract for Construction, AIA Document A201, and Section 00 73 00 - Supplementary Conditions are applicable to the Bidding Documents.

1.03 BIDDER'S REPRESENTATIONS

- A. **Compliance With Responsible Bidders Act:** Prime Bidder upon submitting a Bid for this Project shall submit with their bid certification that they are in compliance with the Laws of Minnesota, 2023, Chapter 253, Minnesota Statute 16C.285, Responsible Contractor Act. Refer to Document 00 45 18.

1.04 PROCUREMENT OF BIDDING DOCUMENTS

- A. **PROCUREMENT OF DOCUMENTS BY BIDDERS:** A Bidder and Sub-bidders may view and order bid documents by going to the Franz Reprographics web site at www.franzrepro.com and selecting the **Franz Public Plan Room**. Please select your project from the list of public projects. Once you have selected the project, please review the **Bid Details** for information on ordering documents and the cost of the non-refundable purchase price. To receive **Bid Notices, Bid Addendums, Construction Bulletins, Shipped Order Confirmations, and Electronic Downloads**, for this project, you must place the following email address in your list of Outlook Contacts and indicate that it is a **Safe Sender: notice@designbidbuild.net** These notifications are sent from this email address. If you do not do this, your email server may block the receipt of these notifications. ***Please contact Franz Reprographics, 763-503-3401, for help accessing the Online Plan Room or ordering non-refundable documents.***
- B. **Procurement of Addenda:** Architect will issue copies of Addenda to Franz Repro to post in the Plan Room.
- C. **Other Sub-bidders and Product Suppliers** may purchase full or partial sets from Franz Reprographics in the plan room at www.franzrepro.com at cost of printing, handling, and shipping. Costs for purchasing Bidding Documents will not be refunded. Subcontract bidders and product suppliers are responsible for determining which portions of the Bidding Documents are needed.

1.05 EXAMINATION OF BIDDING DOCUMENTS AND PROJECT SITE CONDITIONS

- A. **Examination of Bidding Documents:** Bidders/Prime Bidders, by submitting a Bid represent that they have read and understand the contents of the Bidding Documents, and that the Bid submitted is in accordance with the bidding requirements.

- B. **Examination of Project Site:** Bidders/Prime Bidders shall visit Project site to examine conditions which will affect Project Work and to correlate observations with the Bidding Documents. Notify the Owner prior to visiting the building/site.
- C. **Pre-Bid Meeting:** Owner highly recommends that Prime Bidders intending to submit a Bid for this Project attend a Pre-Bid Meeting to be held on October 30, 2024 starting at 7:00 AM. This Pre-Bid Meeting will be a general introduction to the Project, construction schedule, and bidding requirements. Pre-Bid Meeting will be held at Dayton Elementary School, 12000 South Diamond Lake Rd, Dayton, Minnesota 55327 Meet at School's Main Administrative Offices.
 - 1. Attendees shall follow social distancing guidelines according to Federal CDC and Minnesota Department of Health and State Executive Orders.

1.06 INTERPRETATIONS OR CORRECTION OF BIDDING DOCUMENTS

- A. **Questions:** Questions concerning Bidding Documents and Project site existing conditions must be submitted to the Owner via email, at PurchQuotes@ahschools.us by 4:00 PM on October 30, 2024. The Owner, Architect, and Architect's consultants will not be responsible for, nor honor any claims resulting from, or alleged to be the result of misunderstanding by the Bidder. To ensure a transparent bidding process, no phone or in person inquiries will be accepted. It is the Bidder's responsibility to bring all discrepancies, ambiguities, omissions, or matters that need clarification to the Owner's attention. Responses to questions received will be responded to in an addendum, and made available to Bidders.
- B. **Interpretations and Correction of Bidding Documents:** Replies to questions and correction of Bidding Documents will be issued to Prime Bidders and Plan Rooms listed with Franz Reprographics, in the form of Addenda, which will become part of the Contract Documents.
- C. **Oral Clarification:** Architect, Owner and their Consultants will not be responsible for oral clarifications.
- D. **Bidding With Uncertainty:** Do not submit a Bid in uncertainty.
- E. **Sub-Bidders Receiving Addenda Information:** Sub-bidders are responsible for contacting Bidders/Prime Bidders or Plan Rooms/Builders Exchanges prior to bid date to receive Addenda information relating to their work.

1.07 SUBSTITUTION OF PRODUCTS

- A. **General Requirements For Product Substitution Requests For Approval During Bidding:**
 - 1. To obtain approval for use of products not specified, bidders or product manufacturer representatives or their suppliers shall submit written requests for substitution via email to the Owner at PurchQuotes@ahschools.us by 4:00 PM on October 30, 2024. Requests for substitution approval received after the specified time will not be reviewed.
 - 2. Requests for substitution approval shall clearly describe the product for which approval is being requested and shall include data necessary to demonstrate acceptability of the product.
 - 3. If product is approved for substitution, Architect/Engineer will list it as an approved substitute product in an Addendum.

B. Procedure for Submittal of Product Substitution Requests:

1. Submit a request for product substitution approval using a separate substitution request form for each proposed product.
 - a. Use Construction Specifications Institute "CSI Form 1.5C". A copy of the form is attached, as an Appendix following this Document 00 21 13, for reference purposes.
 2. Requests for product substitution approval shall include information regarding Project name and address; Specification Section title and number; specific reference to a particular specified product which the substitution request is based on; name, brand, catalog number and manufacturer of the proposed substitute product; and complete specifications, descriptive literature, and/or samples which are necessary to demonstrate superiority or equality of the product.
 3. If required information is not submitted, the request for substitution approval will not be reviewed.
- C. **Reply Requested:** If a return reply of the results of a product substitution approval request review is desired, submit the substitution request in duplicate and submit a self-addressed, stamped envelope.
- D. **Costs Resulting From Use of Approved Substitute Products:** Requests for product substitution approval shall inform Architect/Engineer of deviations that proposed substitute product will cause to Project. Include in submitted bid(s), costs which will result due to use of an approved substitute product.
- E. **Requirements For Product Substitution After Execution of Contract:** Refer to Section 01 62 00 - Material and Equipment.

1.08 BASIS OF BIDS

- A. **General Requirements:** Provide the following cost amounts on the Bid Form:
1. Base Bid: Lump sum amount.
 2. Alternate Bids (Section 01 23 00): Owner reserves the right to accept or reject a Bid if Bidder has not provided an amount for an Alternate Bid.

1.09 PREPARATION OF BIDS

- A. **General Requirements:** Refer to Call For Bids for additional requirements regarding preparation of Bids.
- B. **Bid Form Format:** Submit Bids on Bidder's letterhead, in exact form and wording as copy of Bid Form, included in this Project Manual as Document 00 41 13 or as otherwise issued by Architect.
- C. **Modifications to Bid Form:** Bids containing clauses or phrases which modify the issued Bid Form format may be cause for rejection of Bid.
- D. **Completeness:** Include all information requested on Bid Form. Failure to include all requested information may be cause for rejection of Bid. Owner reserves the right to accept a Bid if Bidder has not provided an amount on the Bid Form for all requested Bids.

- E. **Signing Bids:** Provide signature of authorized and responsible party submitting the Bid, where indicated on Bid Form, with name typed or printed below signature. Where Bidder is a corporation, Bids must be signed with legal name of corporation followed by name of State of Incorporation and legal signature of an officer authorized to bind the corporation to a contract.

- F. **Submittals to be Included With Bids:** Include following with Bid submittals:
 - 1. Bid Security
 - 2. Bonds
 - 3. Responsible Contractor Verification of Compliance

1.10 BID SECURITY

A. General Requirements:

- 1. Submit a bid security with the Bid.
- 2. Provide bid security in the amount of 5 percent of the Base Bid sum.
- 3. Make bid security payable to Owner.
- 4. Provide bid security in the form of a certified check, cashiers check, or bid bond issued by a surety licensed to conduct business in the state in which Work is being performed.
- 5. The apparent successful Bidder's bid security will be retained until a Contract is executed or until 30 days after bid opening, whichever is shorter.
- 6. Owner reserves the right to retain the bid security of any or all other Bidders until a Contract is executed or until 30 days after bid opening, whichever is shorter.
- 7. Bid securities not to be retained will be returned as soon as practical.
- 8. If a Bidder refuses to enter into a Contract with the Owner, Owner reserves the right to retain Bidders bid security as liquidated damages, but not as a penalty.

1.11 BONDS

- A. **Performance Bond and Payment Bond:** Awarded Contractor will be required to submit a Performance Bond and a Payment Bond.

- B. **Submission of Bonds:** Submit bonds as specified under Document 00 73 00, Supplementary Conditions.

1.12 SUBMISSION OF BIDS

A. General Requirements:

- 1. Submit Bid in an opaque, sealed envelope. Identify the envelope with: (1) Project name, (2) Owner's name and address, (3) Bidder's name, (4) BID ENCLOSED, (5) Anoka-Hennepin Schools Bid Number: 25019B.

2. **Submit 2 copies of completed Document 00 41 13, Bid Form. Do Not Backside Bid Form - Single Sided Only.**

1.13 OWNER'S RIGHTS

- A. **Disqualification of Bidders:** Owner reserves the right to disqualify a Bidder, before or after Bid opening, upon receiving evidence of collusion with intent to defraud or of other illegal practices by Bidder.
- B. **Rejection or Acceptance of Bids:** The School District reserves the right to cancel the Invitation For Bids, to reject any and all bids at its sole discretion when such rejection is in the interest of the School District, or to reject the bid of any bidder who is determined to be not responsive or not responsible.

1.14 DETERMINATION OF RESPONSIBILITY

- A. **General Requirements:** Each Bidder shall be prepared, if so requested by the School District, to present evidence of his experience, qualifications and financial ability to carry out the terms of the Contract.
- B. **Prior to Award of the Contract:** Prior to award of the Contract, an evaluation will be made to determine if the low Bidder has the capability, in all respects, to perform fully the contract requirements and the moral and business integrity and reliability which will assure good faith performance, and who has been prequalified, if required. In determining the "lowest responsible bidder," the School District will evaluate a bidder's responsibility, or lack of responsibility, including, but not limited to:
 1. Its demonstrated compliance with Minnesota's responsible contractor requirements contained in Section 16C.285 of Minnesota Statutes;
 2. References it supplies to the School District which relate to the quality of its performance, management, expertise, responsiveness and timeliness, and its successful completion of work of similar complexity and time restriction.
 3. Sufficient financial ability to perform the contract as evidenced by the Bidder's ability to obtain payment and performance bonds from an acceptable surety;
 4. Appropriate experience to perform the Work described in the bid documents;
 5. Any judgments entered against the Bidder, or any officers, directors, partners or owners for breach of a contract for construction;
 6. Any substantial noncompliance with the terms and conditions of prior construction contracts with a public body without good cause where the substantial noncompliance is documented; or
 7. A conviction of the Bidder or any officer, director, partner, project manager, procurement manager, chief financial officer, or owner in the last five years of a crime relating to governmental or nongovernmental construction or contracting; payment and performance bonds an acceptable surety; contracting; payment and performance bonds an acceptable surety;
 8. Any current debarment of the contractor, any officer, director or owner, from bidding or contracting by any public body of any State, any State agency, or any agency of the Federal government.

- C. The School District may consider the quality and timeliness of a bidder's performance of work for the District in determining whether the bidder is "responsible". The School District reserves the right to disqualify or refuse to accept the bid of any bidder who has been convicted, or entered a plea of guilty or nolo contendere, in any Federal or State court to any charge involving any unlawful, corrupt or collusive practice involving a public contract whether Federal, State, or local, or who has been determined in any judicial proceeding to have violated any antitrust, bid-rigging or collusive practice statute in connection with any public contract, or against whom such formal criminal prosecution or other judicial proceeding has been initiated.
- D. A Bidder who, despite being the apparent low bidder, is determined not to be a responsible bidder shall be notified in writing.

1.15 MODIFICATION AND WITHDRAWAL OF BIDS

- A. **Modification of Bid:** Bids may not be modified after being submitted.
- B. **Withdrawal of Bid:** Submitted Bids may be withdrawn at any time before start of bid opening, but withdrawn bids may not be resubmitted. Opened Bids may not be withdrawn for 30 days after date bids were received.

1.16 WAGE RATE REQUIREMENTS

- A. **Description:** Contract will be subject to compliance with requirements of State of Minnesota prevailing wage statutes as specified under Document 00 73 46 in this Project Manual.

1.17 OPENING OF BIDS

- A. **Procedures:** Bids will be opened as specified in Document 00 11 13 - Call For Bids.

1.18 AWARD OF CONTRACT

- A. **Basis of Award of Contract:** Owner will consider award of the Contract on the basis of the low Base Bid after considerations of the Base Bid amounts submitted by Bidders.
 - 1. The Contract, if awarded, will be awarded to the lowest responsive and responsible Bidder, if any, provided the bid is reasonable and it is in the best interest of the Owner to accept it and subject to the Owner's right to reject any and all bids and to waive informality in the bids and in the bidding.
 - 2. Informalities: The Owner reserves the right to waive any informality in the bids when such waiver is in the interest of the Owner.

3. Alternate Bids:
 - a. Alternate Bids are described in Section 01 23 00, Alternates.
 - b. Bidders shall include a bid amount for Alternate Bid on the Bid Form.
 - c. Owner may accept Alternate Bid in any order, regardless of order listed on Bid Form.
 - d. If Owner accepts an Alternate Bid, the Alternate Bid amount will be added to or deducted from the Base Bid, as applicable, unless the Alternate Bid is a no change in the Base Bid amount.
 - e. Owner reserves the right to award a Contract to Bidder whom Owner feels is in their best interest.
4. Responsibility: In determining the "lowest responsible bidder," the School District will evaluate a bidder's responsibility, or lack of responsibility, by (a) its demonstrated compliance with Minnesota's responsible contractor requirements contained in Section 16C.285 of Minnesota Statutes; and (b) references it supplies to the School District which relate to the quality of its performance, management, expertise, responsiveness and timeliness, and its successful completion of work of similar complexity and time restriction. The School District may consider the quality and timeliness of a bidder's performance of work for the District in determining whether the bidder is "responsible."
5. Pre-Award Meeting: Prior to the award of Contract and before commencement of the Work, the Owner shall be extended the opportunity to interview the apparent low, responsible bidder at a pre-award meeting.
 - a. The Bidder's project team shall be in attendance with credentials, references, experience.

END OF DOCUMENT

ATTACHMENT TO DOCUMENT 00 21 13

QUESTIONS AND ANSWERS RECEIVED DURING BIDDING

Questions received from bidders through purchquotes@ahschools.us, for bid number 25019B, and associated responses are provided for clarification to the bid (Date), as of: November 7, 2024 @2:00 PM.

1. **Question 1:** request approval to bid section 12 3216 Plastic Laminate Faced Casework. Per the specification section 12 3216 part 2: 2.01 Manufacturers, JMJ Caseworks is not listed as an approved manufacturer and would like to be considered
Answer: JMJ Caseworks has not met with the district to go over their requirements, JMJ has not provided a reference of similar school relevance or even within the state of MN. We will not be approving the product until approved by the district to meet standards.

2. **Question 2:** Light Fixture Substitution Request from Mlazgar Associates.
Answer: Type E – Proposed substitution is not considered an equal product to the specified fixture. Would require the stocking of a different battery type.
Type F – Proposed substitution is not considered an equal product to the specified fixture.
Type H1: - Lumark Fixture is approved.

3. **Question 3:** Contractor asked the following questions:
 - a. During the walk-thru it was indicated that Div 27,28,29 should be a direct bid to the single prime contractor. The specs only indicate Div 27, and 29. Can you please clarify.
 - b. If 28 is not a direct bid to the single prime. Can you please list the pervious selected vendors for the fire alarm, and door security.
 - c. Do we have the Manufacturer, model, and AIC ratings of the new panels in this addition as part of phase 2?
Answer:
 - a. **Division 28, Wireless Access Control is also direct bid to the single prime. Fire Alarm can be sub to electrical contractor.**
 - b. **Fire Alarm System in NOTIFIER.**
 - c. **New Switchgear is Siemens.**

END OF ATTACHMENT

ROOM LIGHTING CONTROLS

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes: Room Lighting Controls.

1. Factory assembled switching panels, interfaces and modules.
2. Low voltage wall switches and sensors.

B. Related Sections:

1. Section 26 00 10: Shop Drawings.
2. Section 26 09 23: Lighting Control Devices.
3. Section 26 27 26: Wiring Devices.

1.02 DESCRIPTION OF WORK

A. Extent of the Room Lighting Control work is described by the requirements of this Section, related Sections and as indicated by the Drawings. It includes, but is not limited to:

1. Low voltage switching system with Room Controllers and Switches with provisions for:
 - a. Occupancy Sensor Control (Auxiliary Relay for HVAC Connection)
 - b. Daylight Sensor Control
 - c. Dimming Control

B. Types of Lighting Control Equipment specified in this Section include the following:

1. Room Controllers, Switches, Wall Plates and Occupancy and Daylight Sensors.
2. Requirements are indicated in other Sections of the Specifications for installation and wiring of lighting control equipment.

C. Circuit Numbers: Circuit numbers on Drawings shall be used for reference only. Contractor shall provide panelboard circuit directories documenting actual connections in accordance with phasing of cabinet, load balance, and common neutral requirements.

1.03 SYSTEM DESCRIPTION

A. Overview:

1. Provide a complete low voltage lighting control system for the building as shown on the Drawings and as specified herein.

Enclosure with Addendum No. 1

22064.2

SECTION 26 09 45

2. Lighting control system shall utilize network technology connecting relay panels, switches and sensors based upon a 2-wire data line providing both power and data to all field devices. Each room shall function independently of the others.
3. All relay panel interiors shall be pre-assembled complete with the necessary relays, transformers and devices. Relay panels that are wall mounted shall have interiors separate from enclosure so as to permit easy mounting, conduit installation and wire pull to enclosures. Enclosures mounted in the ceiling space are not required to have separate interiors.

B. Classroom Controls:

1. Provide the following in each classroom indicated on the Drawings.
2. Provide an entry switch at the door(s) as shown on the Drawings. Switch shall be provided with two rocker switches for 'ON'/'OFF' control of lighting zone 'A' and two rocker switches for 'ON'/'OFF' control of lighting zone 'B'.
3. Provide a switch at the Teachers' Station as shown on the Drawings. Teacher's Station shall consist of two switches.
 - a. Switch one shall have two rocker switches for 'ON'/'OFF' control of lighting zone 'A' and two rocker switches to allow 'raise' or 'lower' of lighting levels in zone 'A'.
 - b. Switch two shall have two rocker switches for 'ON'/'OFF' control of lighting zone 'B' and two rocker switches to allow 'raise' or 'lower' of lighting levels in zone 'B'.
4. Provide occupancy sensor(s) as required to obtain proper coverage in room. Occupancy sensor(s) shall provide automatic control of lights as specified.
 - a. Provide occupancy sensor with daylight control where indicated on Drawings.
5. Digital Room Controller.

C. Office Controls:

1. Provide the following in each Office indicated on the Drawings.
2. Provide an Office Entry Switch at the door(s) as shown on the Drawings. Switch shall be provided with two rocker switches for 'ON'/'OFF' control of all lights in Office and two rocker switches to allow 'raise' or 'lower' of all lights in Office.
3. Provide occupancy sensor(s) as required to obtain proper coverage in room. Occupancy sensor(s) shall provide automatic control of lights as specified.
 - a. Provide occupancy sensor with daylight control where indicated on Drawings.
4. Digital Room Controller.

1.04 SUBMITTALS

A. Prior Approvals:

1. Manufacturers wishing to submit quotations on the lighting control system must be pre-qualified. Pre-qualification information must be submitted to the electrical consulting engineer not later than ten (10) working days prior bidding.
 - a. Submit data sheets and a one-line diagram of the proposed system configuration for review.

- B. Shop Drawings:** Shop Drawings shall be submitted to Engineer for approval before starting actual fabrication.

1.05 QUALITY ASSURANCE

- A. Manufacturer:** Minimum of 10 years experience in manufacture of architectural lighting controls.

- B. System Checkout and Support:** Factory trained Manufacturer Representative shall be on site to verify system installation, proper operation and conformance to customer requirements. Factory or Manufacturers Representatives shall give Owner's Personnel 8 hours of on-site training. Up to 4 visits may be required to accomplish all training.

- C. NEC Compliance:** The system shall comply with applicable provisions of the current National Fire Protection Association standard, local building codes and meet all the requirements of the local authorities having jurisdiction.

- D. NEMA Compliance:** Comply with applicable portions of NEMA standards pertaining to types of electrical equipment and enclosures.

- E. UL Approvals:** The system shall be listed or registered with Underwriters Laboratories, Inc. for its intended purpose. The system shall be rated by Underwriters Laboratories, Inc. as suitable for use with 90 degree C copper wire.

- F. FCC Emissions:** All applicable components/assemblies shall meet emission standards as suitable by the FCC as specified in Part 15, Subpart J for Class A installations.

- G. System:** The controls shall meet the following specifications:

1. Operational Ambient Temperature: 14 degrees F to 104 degrees F (-10 degrees C to 40 degrees C).
2. Operational Ambient Humidity: Not to exceed 45 percent RH at 32 degrees F to 85 percent RH at 95 degrees F (0 degrees C to 35 degrees C).
3. Static Immunity: Greater than 15KV.
4. Conducted Lighting and Line Transient Immunity: 6KV spikes.

1.06 WARRANTY

- A.** Provide manufacturer's warranty covering two-year parts and labor and five year limited parts warranty to repair and replace defective equipment.

1.07 COMMISSIONING

- A. Provide factory-certified field service engineering to make a site visit to ensure proper system installation and operation under the following parameters:
 - 1. Qualifications for factory-certified field service engineer.
 - a. Minimum experience of 2 years training in the electrical/electronic field.
 - b. Certified by the equipment manufacturer on the system installed.
 - 2. Make a visit upon completion of installation of lighting control system.
 - a. Verify connection of power feeds and load circuits.
 - b. Verify connection and location of controls.
 - c. Verify system operation control by control, circuit by circuit.
 - d. Verify proper operation of manufacturers interfacing equipment.
 - e. Obtain sign-off on system functions.
 - f. User to be trained on system operation.

1.08 MAINTENANCE

- A. Make ordering of new equipment for expansions, replacements, and spare parts available to end user.
- B. Make new replacement parts available for minimum of ten years from date of manufacture.
- C. Provide factory direct technical support hotline 24 hours per day, 7 days per week.
- D. Provide on-site service support within 24 hours anywhere in continental United States and within 72 hours worldwide except where special visas are required.
- E. Offer renewable service contract on yearly basis, to include parts, factory labor, and annual training visits. Make service contracts available up to ten years after date of system commissioning.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. **General:** All components are to be supplied by the same manufacturer.
- B. **Acceptable Manufacturers:** Subject to compliance with requirements of the Contract Documents, acceptable manufacturers are as follows or approved equal:
 - 1. NX Lighting Controls
 - ~~2. Greengate by Cooper Lighting Solutions~~
 - ~~3. Acuity Controls nLight System.~~

Acceptable Manufacturers revised in Addendum No. 1

- C. Unless otherwise shown, NX Lighting Controls numbers are used for reference.

2.02 LOW VOLTAGE SWITCHING SYSTEM

A. System Description:

1. The low voltage lighting control system shall provide ON/OFF control of Classroom lighting, as well as dimming, occupancy and daylight control.

B. Component Description: The system components shall be as described below:

1. NX Room Controller - NXRC Series:

- a. Where indicated on the Drawings, provide a pre-configured, digitally addressable, plenum-rated room controller.
- b. The Room Controller shall be capable of:
 - 1) Autonomously controlling a space.
- c. The Room Controller shall consist of:
 - 1) A universal voltage type (120Vac,277Vac/347Vac) power supply.
 - 2) Provide 20A relays as required, complete with manual override. Circuit Load rating dependent of usage. Shall be capable of providing plug-load control.
 - 3) provide 0-10V control channels as required.
 - 4) A port to connect downstream switches, occupancy sensors and daylight sensors. All downstream devices shall connect via CAT5e cable.
 - 5) A port to connect an upstream Area Controller/Bridge.
 - 6) An indicting LED to aid in locating the controller in a darkened ceiling space.
 - 7) Circuit testing buttons.
 - 8) Output 24Vac 120mA.
 - 9) Relay Ratings:
 - a) 20A Suitable for General Purpose Loads @ 120/277/247 VAC.
 - b) 20A Suitable for Standard Ballasts and Tungsten Loads @ 120/277 VAC.
 - c) 15A Suitable for Standard Ballasts Only @ 347 VAC.
 - d) 16A Suitable for Electronic Ballasts @ 120/277 VAC.
 - e) 0.5 HP @ 120/277 VAC.
 - 10) US & Canada Plenum Rated.
- d. The Room Controller relays shall be connected such that 120 Vac plug load(s) and 277 Vac/347 Vac lighting loads can be switched by a single switch or occupancy sensor with no additional add-ons or remote modules.

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- e. The Room Controller shall mount to electrical junction box via threaded 1/2 inch chase nipple. No other mounting hardware shall be required.

2. Wall Switch - NXSW Switches:

- a. Switches shall be NXSW Series and connect to the lighting control network via a CAT5e cable. Switches shall be configured and programmed to control one or more outputs in the lighting control system.
- b. Switches shall have the capability to be configured via the NXBTR Blue Tooth Radio.
- c. Switches are linked to a single-output or a group of outputs.
- d. Switches, Occupancy Sensors and Photo Sensors can be set to a common output address to permit multiple points of control for a single relay or dimming output.
- e. Switches, Occupancy Sensors and Photo Sensors can be set to a common group address to permit multiple points of control for a group of outputs.
- f. Each switch can be programmed for ON/OFF control of outputs, UP/DOWN control of 0-10 VDC dimming ballasts, 0-10 VDC LED drivers and/or preset control to set a specific lighting scene.
- g. Switches, with LED indicators to indicate both ON and OFF output/group status, shall be available with 1, 2, 3, 4 or 6 single button switches per gang. Switch to fit standard Decora opening.
- h. Switches and switch hardware shall mount to standard wall boxes.
- i. Each switch shall provide a label to identify function.
- j. Adhere to the factory recommended wiring practices so that physical removal of any single switch shall still permit communication between relay panels in the rest of the NX lighting control network.

3. Dimmer Switch - NXSW Series:

- a. Dimmer switch shall be NXSW Series and connected to the lighting control network via a CAT5e cable. Each switch shall be capable of raising or lowering light levels of individual or groups of lighting fixtures.
- b. Switches shall include integral RAISE/LOWER buttons as well as a switch for ON/OFF control.
- c. Dimmer switch can be programmed via the NXBTR Blue Tooth Radio.

4. Ceiling Sensor - Low Voltage NXOS Series:

- a. Senors shall be NXOS series Dual Technology with Passive Infrared (PIR) and Ultrasonic detection.
- b. Ceiling sensors shall mount recessed in to the ceiling space.

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- c. Sensors shall have a 360-degree coverage pattern with an adjustable tilt head to maximize coverage, focus on particular areas, or provide adjustment when mounted on sloped ceilings.
 - d. Sensors shall provide an adjustable time out period of 30 seconds to 30 minutes.
 - e. A manual override switch is to be provided on the sensor to allow the load to be manually switched ON and OFF for the purpose of testing during installation.
 - f. Provide as required on the Drawings, options that are available from the following list:
 - 1) 0-10 VDC outputs for dimming ballast option for Natural Daylight with user settable light levels.
 - 2) Configurable high and low light level set points so that the sensor can toggle between light levels upon occupancy.
 - 3) Auxiliary relay, for signaling other systems, which can be configured so that it synchronizes with the ON/OFF status of the load or the status of occupancy/vacancy.
 - 4) Remote Manual Override Switch, NXSW series switch.
- 5. Photo Sensor & Daylight Controls - NXDS Interior Daylight Sensor:**
- a. Provide where required a NXDS Interior Daylight Sensor capable of sensing from 0 to 65,000 lux (0 to 6500 fc) of direct light. The sensor shall derive both its power and data information from the Room Controller.
 - b. The ambient light level shall be continuously monitored in lux by the sensor. The sensor shall broadcast to the network the existing light level when requested or when there is a change in directed light level.
 - c. Set point adjustments can be made via the NXBTR Blue Tooth Radio.
 - d. Each sensor can be programmed to provide ON/OFF control of relays, raise/lower or 0-10 vdc type or ballasts and LED drivers via the NXBTR Blue Tooth Radio.
 - e. One sensor shall permit different outputs to switch and/or control light levels as ambient light changes. Light levels shall be controlled by 'sensor only' or in combination with a time schedule or with a dimming switch.
 - f. It shall be possible to set a maximum light level which cannot be exceeded during Natural Daylight operations or for non-daylight controlled areas, a permanent or "tuned" light level to maximize energy savings.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Room Controllers and Conduit:

1. Ensure that conduit for line voltage wires enters room controller line voltage areas and conduit for low voltage control wires enters room controller on low voltage areas. Check manufacturer's drawings for location of line and low voltage areas.
 - a. Locate room controllers near the room switches, above ceiling. Room controllers shall be mounted so they are accessible from a step ladder.

B. Daylight Sensors:

1. Install daylight sensors as per manufacturer's recommendations for closed loop and open loop applications. Ensure there is no artificial light shining directly into the sensor head.
2. Adhere to manufacturer's recommendations for wiring and programming.

C. Occupancy Sensors:

1. Install occupancy sensors so objects do not block the coverage area. Keep away from HVAC vents and light directly from light fixtures
2. Adhere to manufacturer's recommendations for location, wiring and programming.

D. Wiring:

1. For low voltage wiring, provide wire type as recommended by the manufacturer. CAT5e cables shall be manufactured by an approved cable manufacturer with connectors factory-terminated. Field terminations will not be accepted.
2. Adhere to manufacturer's recommendations as to maximum wire length and maximum quantity of relays per switch.

E. Low Voltage Wiring:

1. Use wire gauges from #12 AWG to #14 AWG or appropriately sized for the branch circuit.

F. Circuit Identification:

1. Circuit Breaker Panels: Panels shall have typed circuit directories. Do not use Drawing Room Numbers.
 - a. Room numbers or names used for circuit identification shall correspond to name plates installed on room doors by General Contractor or as selected by Owner.

END OF SECTION